

TARRANT REGIONAL WATER DISTRICT
140 FM 416, Streetman, Texas 75859
903-389-3928
Fax # 903-389-7587

TRWD USE ONLY

A006-074
APPLICATION NO

64204

APPLICATION FOR ON-SITE
SEWAGE FACILITY

8265

RECEIPT NO

10-3-06
DATE

SCANNED

OCT 31 2006

Richland Chambers
TRWD RESERVOIR

200
AMOUNT

NAVARRO
COUNTY OF INSTALLATION

1. **BY SF** PROPERTY OWNER'S NAME: BURRES KEITH & GLENN M.
(LAST) (FIRST) (MIDDLE)
2. PERMANENT MAILING ADDRESS: 3203 LAUREL POINT, KINGWOODS, TX 77339
(STREET/PO BOX) (CITY/STATE) (ZIP)
3. TELEPHONE NO. DURING DAY: (281) 450-6296
4. SITE ADDRESS: 154 SE CR2230K CORSICANA, TX 75109
(STREET) (CITY/STATE) (ZIP)
5. PROPERTY DESCRIPTION: LOT NO. 19 BLOCK --- SEC --- SIZE 43,975 SQ.FT.
SUBDIVISION: VILLAGE WOODS Acreage N/A Survey JOHN MARSON SURVEY, A-52
6. SOURCE OF WATER: Private Well ☒ Public Water Supply M.E.N.
(NAME OF SUPPLIER)
7. SINGLE FAMILY RESIDENCE: No. of Bedrooms 3 Living Area (sq. ft.) 3352
DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): 300
8. COMMERCIAL/INSTITUTIONAL (including multi-family residences) TYPE: N/A
NO. OF EMPLOYEES/OCCUPANTS/UNITS: N/A DAYS OCCUPIED PER WEEK: N/A
DESIGNED MAXIMUM DAILY WATER CONSUMPTION (gpd): N/A
9. IS AN ORGANIZED SEWAGE COLLECTION WITHIN 300 FEET? Yes ☒ No
10. DESIGNER: PHILLIP MAELAR LICENSE NO.: 2604 SE# 9819
PHONE NO.: 972-462-8487
11. INSTALLER: PERRY RICHTER REGISTRATION NO.: 053111
PHONE NO.: 903 879-2432

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to the Tarrant Regional Water District to enter upon the above described private property for the purpose of lot evaluation and inspection of on-site sewerage facilities. I understand that the approval of this application constitutes authorization for construction of the on-site sewerage facility and that a permit to operate the facility will be granted following successful inspection of the installed system which indicates that the system was installed in compliance with TNRCC's On-Site Sewage Facility Rules (OSSF) and the District's Waste Control Order.

Kath Burns
(SIGNATURE OF OWNER)

9-12-06
(DATE)

Sherry Fortson
(SIGNATURE OF AUTHORIZED DISTRICT REPRESENTATIVE)

10-3-06
(DATE)

TARRANT REGIONAL WATER DISTRICT

*140 FM 416, Streetman, Texas 75859
903-389-3928*

***AUTHORIZATION TO CONSTRUCT
AN
ON-SITE SEWAGE FACILITY***

Application Number RC06-074

Property Owner Keith Burres

Mailing Address 3203 Laurel Point
Kingswood, TX 77339

Property Location Lot: 19 Village Woods
154 SE CR 2230
Corsicana, TX 75109

Navarro County, Texas

This serves to notify all persons that an on-site sewerage facility application, related technical data, and the appropriate fee have been received by the Tarrant Regional Water District (District) from the property owner. The application has been reviewed for technical and administrative consideration against the standards set forth by the District. Approval is hereby granted for the construction as shown on the submitted plans.

Any modifications to submitted plans require approval by the Tarrant Regional Water District prior to installation.

You or your installer must contact the District office at 903-389-3928 between 7:30 A.M. to 8:30 A.M. to arrange for the required facility inspection. Calls after 8:30 A.M. may result in inspection being delayed until the next working day. **The authorization to construct is valid for one year from the date of issue of an application.** If a final inspection has not been performed within one year of issue, a new application and fee will be required.

Comments: The following design is based upon the minimum standards set forth by the Texas Commission on Environmental Quality and is based on a maximum daily flow of 300 gallons, the use of water saving devices is required.



Authorized District Representative

OS-21243

Date

10-4-06

TARRANT REGIONAL WATER DISTRICT

140 FM 416, Streetman, Texas 75859

903-389-3928

**NOTICE OF APPROVAL
OF
ON-SITE SEWAGE FACILITY**

PERMIT # RC06-071

Property Owner: Keith Burres

Mailing Address: 3203 Laurel Point
Kingswood, TX 77339

Property Location: Lot: 19 Village Woods
154 SE CR 2230
Corsicana, TX 75109

Navarro County, Texas

This serves to notify all persons that the on-site sewage facility owned by the above has satisfied design, construction, and installation requirements of the Texas Commission on Environmental Quality (TCEQ) and the District Waste Control Order. This Tarrant Regional Water District On-Site Sewage Facility Permit is issued for the operation of the above identified on-site sewage facility.

ANY MODIFICATIONS TO THE SYSTEM STRUCTURE, OR ITS COMPONENTS, MAY REQUIRE A NEW PERMIT. The owner must notify this office of the aforementioned changes.

ADDITIONAL INFORMATION:


OS-21243
Authorized District Representative

10-27-06
Date

TARRANT REGIONAL WATER DISTRICT

140 FM 416, Streetman, Texas 75859
903-389-3928

**ON-SITE SEWAGE FACILITY PROGRAM
LOW PRESSURE PIPE SYSTEM
INSPECTION REPORT**

PROPERTY OWNER: Keith Burres

PERMIT NUMBER: RC06-074

I. SEWER	Y	N
CLEANOUTS PROPERLY INSTALLED:	✓	
PROPER TYPE PIPE FROM STRUCTURE TO DISPOSAL SYSTEM:	✓	
SLOPE OF SEWER 1/8 INCH PER FOOT MINIMUM:	✓	
II. SEPTIC TANK	Y	N
TANK SIZE REQUIRED: 1000 gal. TANK SIZE INSTALLED: 1000 Gal / 2 (500's)	**	**
TYPE: Concrete MANUFACTURER: Jackson	**	**
RISERS PROVIDED ON TANKS BURIED GREATER THAN 12":	✓	
INLET FLOWLINE GREATER THAN 3" ABOVE OUTLET FLOWLINE:	✓	
OUTLET LIQUID PENETRATION 1/4 TO 1/2 TOTAL LIQUID DEPTH:	✓	
"T" PROVIDED ON INLET AND OUTLET:	✓	
IF SINGLE TANK, ARE 2 COMPARTMENTS PROVIDED?	N/A	
III. PUMP TANK	Y	N
TANK SIZE REQUIRED: 500 gal. TANK SIZE INSTALLED: 500 Gal.	**	**
TYPE: Concrete MANUFACTURER: Jackson	**	**
TYPE AND SIZE OF PUMP: Burnes AP 12 1/2 hp	**	**
IV. DRAINFIELD	Y	N
LATERAL LINE SIZE: <input checked="" type="checkbox"/> 1" PVC <input type="checkbox"/> 1 1/4" PVC <input type="checkbox"/> 1 1/2" PVC <input type="checkbox"/> OTHER SPECIFY _____	**	**
SUPPLY LINE DIAMETER: 2"	**	**
MANIFOLD DIAMETER: 2"	**	**
AREA REQUIRED: 3240 sqft AREA INSTALLED: 3240 ft ²	**	**
EXCAVATION DEPTH: 22"-26" WIDTH: 8" LENGTH: 1080'	**	**
DISTANCE BETWEEN EXCAVATIONS: 3.5'	**	**
PROPER PLACEMENT OF DAMS	✓	
TYPE OF MEDIA: B Rock	**	**
DEPTH OF MEDIA: 12"	**	**
PROPER BARRIER BETWEEN MEDIA AND BACKFILL:	✓	
RISERS INSTALLED FOR HEAD PRESSURE ADJUSTMENT:	✓	
DATE HEAD PRESSURE WAS SET: 10-27-06	**	**
ZONES INSTALLED PROPERLY. Yes HOW MANY? 1	**	**
PROPER CONTROL VALVES INSTALLED. Yes HOW MANY? 1	**	**
MINIMUM REQUIRED SETBACK DISTANCES MET? IF NOT, LIST DEFICIENCIES.	✓	
AUDIO/VISUAL ALARMS INSTALLED:	✓	

COMMENTS: _____

INSPECTED BY: Jeff Hain OS-21243

DATE: 10-27-06



BUILDING PERMIT

COUNTY OF NAVARRO, TEXAS

No 10046

JOB ADDRESS <i>154 SE 2230K Cor. 75109</i>			
LOT NO. <i>19</i>	BLK.	SUBDIVISION <i>Village Woods Ph I.</i>	
OWNER <i>Keith & Brenda Bures</i>	ADDRESS <i>3203 Samuel P. H. King Blvd</i>		PHONE <i>281-450-6296</i>
CONTRACTOR <i>Crowell Const.</i>	ADDRESS		PHONE <i>77339</i>
ELECTRICAL <i>sub</i>	ADDRESS		PHONE
PLUMBING <i>sub</i>	ADDRESS		PHONE
MECHANICAL <i>sub</i>	ADDRESS		PHONE
USE OF BUILDING <i>residential</i>			
CLASS OF WORK: <input checked="" type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> REPAIR <input type="checkbox"/> DEMOLISH			
DESCRIBE WORK <i>build new home</i>			
TYPE OF CONST. <i>brick</i>	SQ. FT. <i>3352'</i>	NO. OF STORIES <i>2</i>	
NO. OF BEDROOMS <i>3</i>	NO. OF BATHS <i>4</i>	FOUNDATION <i>slab</i>	
ROOF <i>comp.</i>	SPRINKLERS REQUIRED	PARKING SPACES	
NO. OF DWELLING UNITS <i>1</i>	ZONING <i>SF</i>	OCCUPANCY GROUP	
NOTICE THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 6 MONTHS, OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 1 YEAR AT ANY TIME AFTER WORK IS COMMENCED. THE ISSUANCE OF THIS PERMIT SHOULD NOT BE CONSTRUED BY ANY PERSON AS AN APPROVAL OF BUILDING OR CONSTRUCTION TECHNIQUES, METHODS, OR MATERIALS.		I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAW AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OF LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION. SIGNATURE VALUATION: \$ <i>415,000.00</i> PERMIT FEE \$ <i>449.48</i> APPROVED FOR ISSUANCE BY: <i>Mike Steichen</i> DATE <i>5-15-06</i>	
SPECIAL CONDITIONS:			
THIS BECOMES YOUR PERMIT WHEN APPROVED FOR ISSUANCE			
DL#			
EXP. DATE			
D.O.B.			

July 14, 2006

Tarrant Regional Water District Designated Representative
Chris Robinson

Regarding: Variance request on the 320' elevation property line buffer distance from the disposal field at the Burress residence at 154 SE CR 2230K Corsicana, Texas. - The Village Woods Est. lot 19.

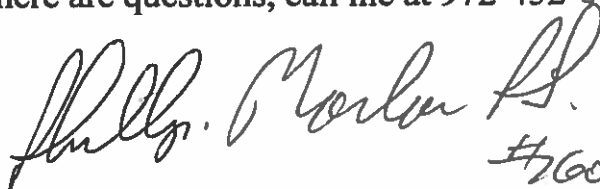
The variance is being requested because no other alternative system can be installed on the lot without a variance request. The subject site is located on approximately 1 acre lake front tract. A LPD disposal system is being proposed for the waste water system for the property. The home has 3 bedrooms and 3,352 square feet of living area.

Due to the size of the home and the very limited area for the disposal field on the open side of the home, the disposal field will be installed below the platted 320' elevation. The 318' elevation is much closer to the retaining wall and lake. All lateral lines will be above the 318' elevation. The other property lines will have the required 5' buffer distance. The private water line, drive, and buried power line to the home prevents any significant amount of lines to be installed in the front yard. Every available area is being used first, to install the disposal field and obtain the required buffer distances from lateral lines.

The closest lateral line would be 80' away from the edge of the lake (315' elevation) and retaining wall.

The over all situation listed above would not adversely affect the environment, neighboring property or water quality.

If there are questions, call me at 972-452-8487.



Phillip Marlar R.S.

#2604

JE#

9819

7/14/06



OSSF Soil & Site Evaluation

Page 1 (Soil & Site Evaluation)

Date Performed: 7/14/06

Property Owner: Burren Residence

Site Location: 154 SEC R 2230K Corsicana, Tex Proposed Excavation Depth: 24-27"

REQUIREMENTS:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear.

Soil Boring Number: <u>1</u>					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	<u>III</u>	<u>NA</u>	<u>no</u>	<u>no</u>	<u>cl</u> <u>Clay</u>
2 FT.	<u>IV</u>				
3 FT.					
4 FT.					
5 FT.					

Soil Boring Number: <u>2</u>					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	<u>III</u>	<u>NA</u>	<u>no</u>	<u>no</u>	<u>CL</u> <u>Clay</u>
2 FT.	<u>IV</u>				
3 FT.					
4 FT.					
5 FT.					

FEATURES OF SITE AREA

- ☐ Presence of 100 year flood zone
☐ Presence of upper water shed
☐ Presence of adjacent ponds, streams, water impoundments
☐ Existing or proposed water well in nearby area (within 150 feet)
☐ Ground Slope

- ☒ Yes ☐ No
☐ Yes ☒ No
☒ Yes ☐ No
☐ Yes ☒ No

1 to 2 %

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

Philip N. Marlar #2604
 (Signature of person performing evaluation)
 Form # PA5/030204-Final

7/14/06
 (Date)

SE#0819
 Registration Number and Type

Date Performed: 7/14/06

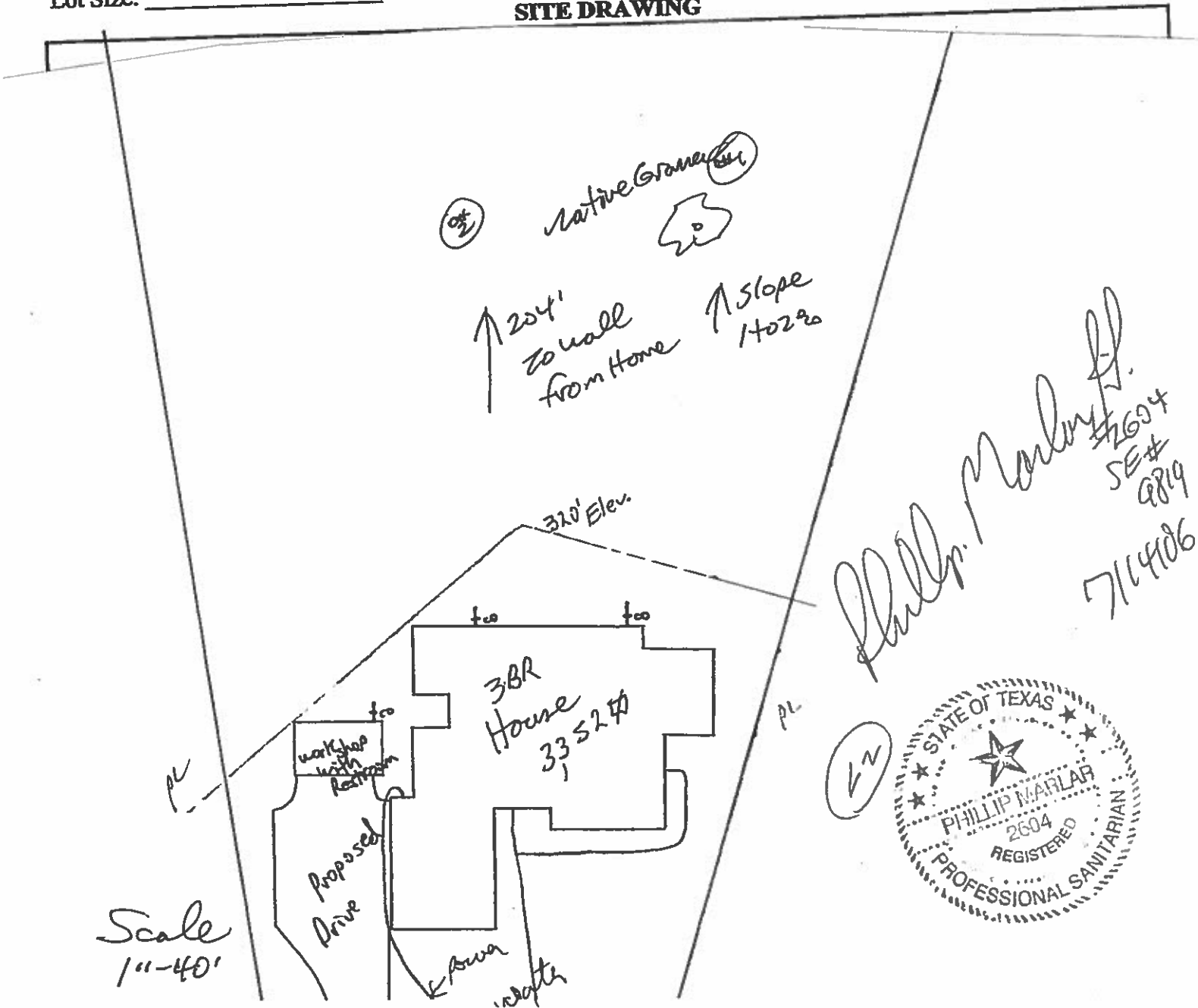
Site Location: 154 SECR 2230R Corsicana, TX ☒ Subsurface Disposal ☐ Surface Disposal

Schematic of Lot or Tract

Show:

- Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and any other structures where known, all to scale.
- Location of existing or proposed water wells within 150 feet of the property.
- Indicate slope or provide contour lines from the structure to the farthest location of the proposed disposal field.
- Location of soil boring or excavation pits (show location with respect to a known reference point).
- Location of natural, constructed, or proposed drainage ways (ditches, streams, ponds, lakes, rivers, etc.), water impoundment areas, cut or fill bank, sharp slopes and breaks.

Lot Size: _____ or Acreage: 1±
SITE DRAWING



Doak Lake
wall
Register

318' Elev.

1441

Thumps 6

80'

7

Lot 19

109' of 2" Arc Sch 40
Supply Line

V^N



workshop
with
restroom

Proposed
Drive

3BR
House
33524

~~proposed power water~~

water meter
transformer

**Phillip Marlar R.S.
Registered Professional Sanitarian
Certified Site Evaluator OS 6352
P.O. Box 274 Scurry, Texas 75158
Phone (972) 452-8487**

July 14, 2006

Tarrant County Water Control District Designated Representative

Subject Property: Burress's property at 154 SE CR 2230K Corsicana, Texas
Subject Design: Low Pressure Dosing System (The Village Woods Est. lot 19)


Design Parameters:

3 Bedroom House (3,352 sq ft living area) (4 Bedroom Equivalent)
4 Bedroom House (water saving fixtures) = 300 gpd
Soil Evaluation Class IV soil
Long Term Loading Rate .1 gal / sq ft / day
Required Absorption Area = 300 gpd / .1 gal / sq ft / day = 3,000 sq ft
Designed Absorption Area = 3,240 sq ft
Total Length of Laterals = 1,080'

System Parameters

1,500 gallon baffled tank
A Zabel A-1800 filter in the outlet of the second tank compartment
A 500 gallon pump tank chamber with high water alarm
Supply Line - 2" diameter sch 40 piping
Lateral Lines - 1 "diameter sch 40 piping
Supply Line Length - 109'
Lateral Line Length - 1,080'
Hole Size in Laterals - 1/8"
Hole Spacing - 5 to 5.5' (See attached chart)
Holes - 204
Elevation Head - 5'
Friction Head - 6.65' (using 5.09 friction rate)
Pressure Head - 2' (Operating Head)
Total Head - 13.65 Ft
.5 HP Hydromatic SHEF50 pump with 13.65 Ft head will pump 60+ gpm
GPM at 2 ft Operating Head = 57 gpm + 2 gpm for 1/8" anti-siphon hole = 59 gpm
Type Pump - .5 HP Submersible Hydromatic SHEF 50 or **equivalent**
Pump at 59 gpm will deliver 20 ft. head
Lateral Depth - 24 to 27" (Average Depth 25.5")
Excavation width 6" to 1' wide Rock - washed clean 3/8 to 1"
Rock Depth - at least 10" + under the pipe (laterals) then another 2" for total of 12"
Volume Supply Line - 17.65 gallons Volume Laterals - 44.28 gallons
Volume Supply & Laterals - 61.93 gallons Check Valve Required - No

Phillip Marlar
#2604
SE#
9819
7/14/06



Phillip Marlar R.S.
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Certified Site Evaluator OS 6352
P.O. Box 274 Scurry, Texas 75158
Phone (972) 452-8487

Minimum Required Dosing - 239.05 gallons

Proposed Dosing Volume - 239.8 gallons

(27.25" of effluent depth in pump tank to be pumped at a time)

Phillip Marlar *#2604*
SEP 9814
7/14/06



Burress Residence - Elevation Chart

Line	Side "A"	Side "B"
1 & 2	5'-6"	5'-7"
3 & 4	5-7	5-7
5 & 6	5-9	5-8
7 & 8	5-10	5-10
9 & 10	5-10	5-10
11 & 12	5-11	5-10
13 & 14	6	5-11
15 & 16	6	5-11
17 & 18	6-1	5-11

Tank - 5'-3"

Philip Marlar #2604
SE# 4819
7/14/06



Phillip Marlar R.S.
Registered Professional Sanitarian
P.O. Box 274 Scurry, Texas 75158
Phone (972) 452-8487

Burress Residence LLP - OSSF Specifications (Elevation Chart)

Line	Elevation Avg/Line	Difference in Elev.	Pressure Head
1 & 2	5.5'	0	2'
3 & 4	5.5'	0	2'
5 & 6	5.5'	0	2'
7 & 8	6'	.5'	2.5'
9 & 10	6'	.5'	2.5'
11 & 12	6'	.5'	2.5'
13 & 14	6'	.5'	2.5'
15 & 16	6'	.5'	2.5'
17 & 18	6'	.5'	2.5'

Lateral lines will vary from 24 to 27" in depth.
Average line depth will be 25.5" in depth.

Phillip Marlar R.S.
#2604
SE#9814
7/14/06




Phillip Marlar R.S.
Registered Professional Sanitarian
P.O. Box 274 Scurry, Texas 75158
Phone (972) 452-8487

Burres Residence LLP - OSSF Specifications

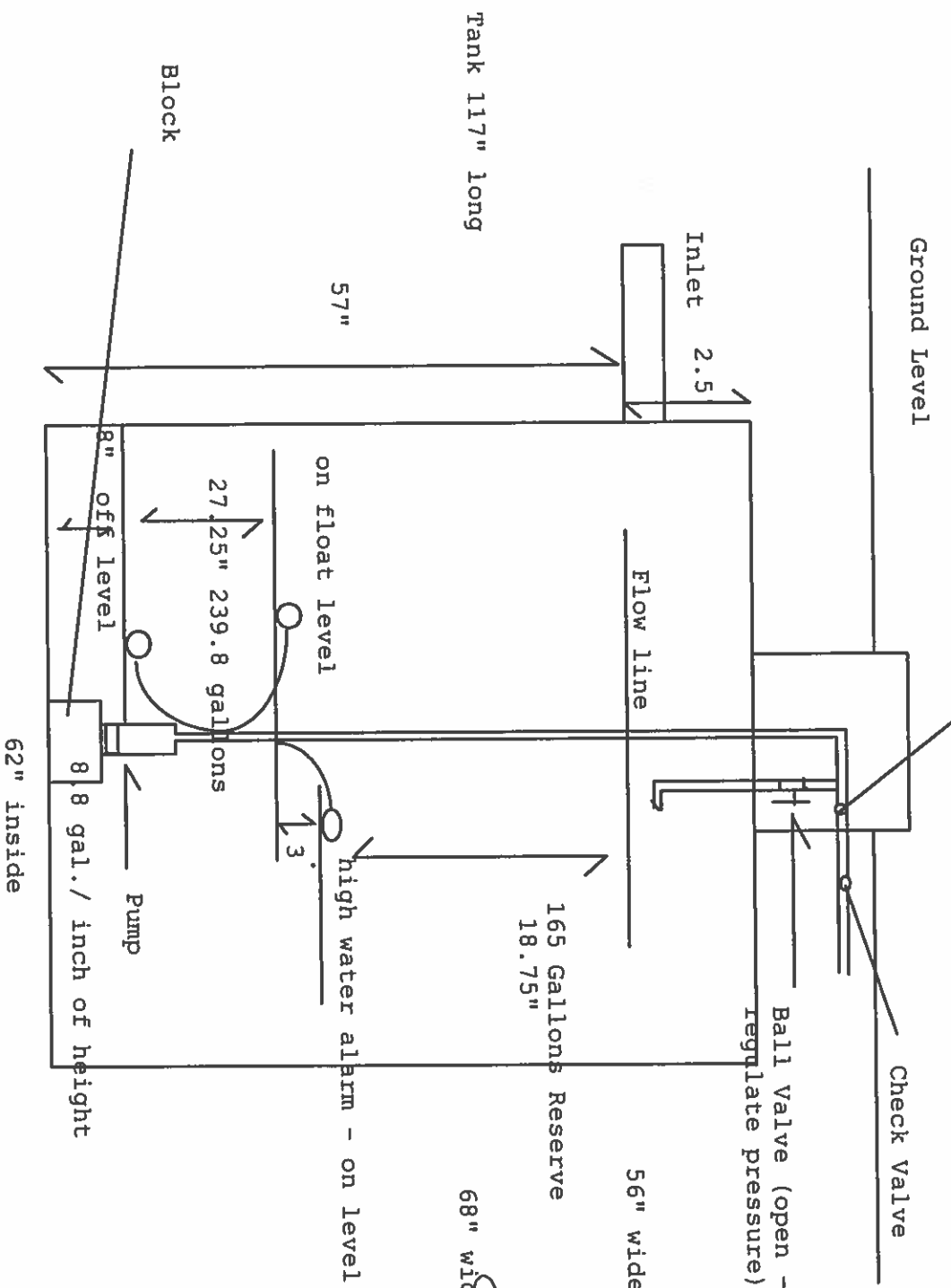
Line	Length	Pressure Head	Hole Space	# Holes	Hole Size	Flow GPM/Hole	Rate GPM/Line	GPM/Ft./Line
1	60'	2'	5'	12	1/8"	.26	3.12	0.052
2	60'	2'	5'	12	1/8"	.26	3.12	0.052
3	60'	2'	5'	12	1/8"	.26	3.12	0.052
4	60'	2'	5'	12	1/8"	.26	3.12	0.052
5	60'	2'	5'	12	1/8"	.26	3.12	0.052
6	60'	2'	5'	12	1/8"	.26	3.12	0.052
7	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
8	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
9	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
10	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
11	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
12	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
13	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
14	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
15	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
16	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
17	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
18	60'	2.5'	5.5'	11	1/8"	0.29	3.19	0.053
Totals	1,080'			204			57	

All lateral lines to be 24 to 27" in depth.
Average line depth to be 25.5" in depth.

Phillip Marlar
 #2604 SE #9819
 7/14/06


1/8" anti-siphon hole

500 Gallon CPI pump tank chamber on 1 piece (1,500 gallon baffled tank)



Philip Marlar

#2604

SE#9819

7/14/06

Pump Time 4.2 minutes for 239.8 gallons at 57 gpm at .86 psi.

Total Head 13.65 FT at 57 gpm for 2" Sch 40 PVC piping.

1/2 HP Hydromatic SHEF 50 @ 59 gpm will deliver 20 FT total head.

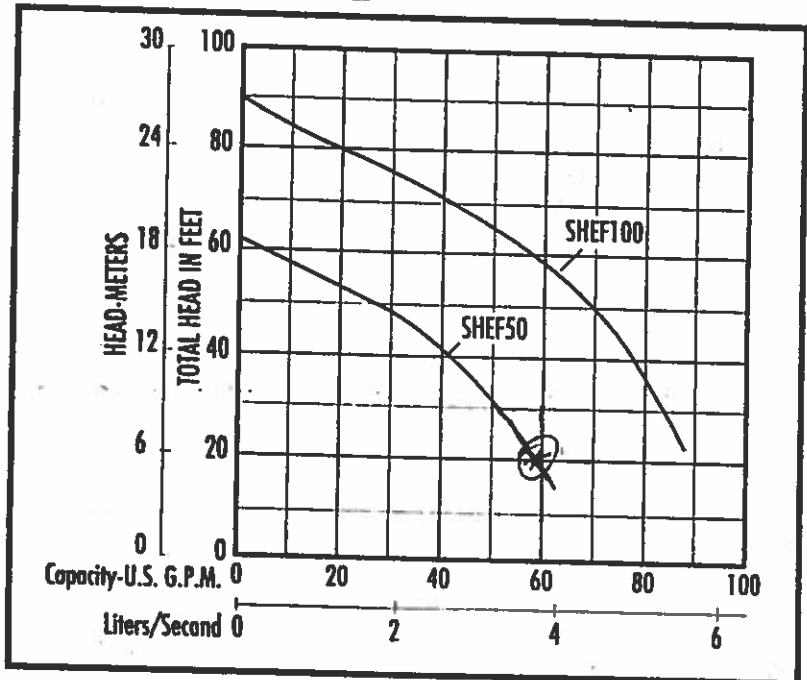
SHEF50/100 Submersible Effluent Pumps

Details

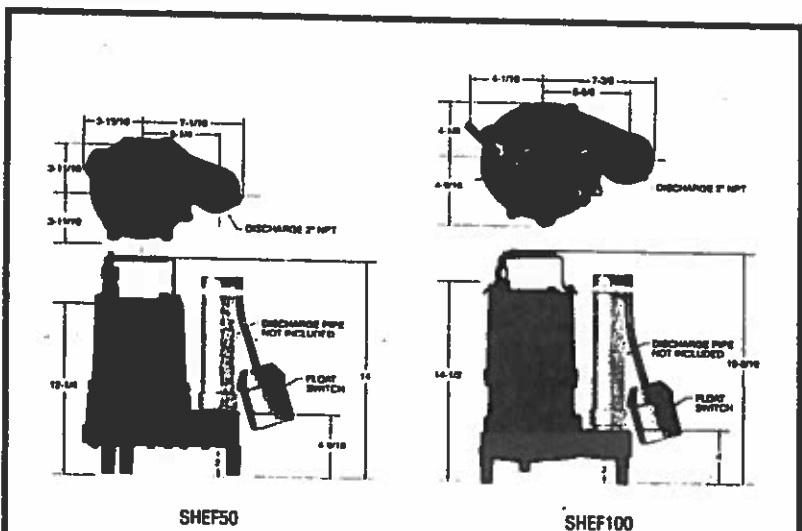
Pump Characteristics

Pump/Motor Unit	Submersible				
Manual Models (50)	M1	M2	M3	M4	M5
Automatic Models	A1	A2	-	-	-
Horsepower	1/2				
Full Load Amps	15.0	7.6/7.1	12/11	1.6	1.2
Motor Type	Capacitor Start				
R.P.M.	3450				
Phase Ø	1 Ø		3 Ø		
Voltage	115	208-230	208-230	460	575
Manual Models (100)		M2	M3	M4	M5
Automatic Models		A2	-	-	-
Horsepower	1				
Full Load Amps	13.6/12.1	6.0/5.8	2.8	1.9	
Motor Type	Capacitor Start		3 Ø		
R.P.M.	3450				
Phase Ø	1 Ø		3 Ø		
Voltage	208-230	208-230	460	575	
Hertz	60				
Temperature	140°F Max Fluid Temp.				
NEMA Design	L		B		
Insulation	Class B				
Discharge Size	2" NPT std.				
Solids Handling	3/4"				
Unit Weight	58 lbs. (50)		65 lbs. (100)		
Power Cord	115V, 14/3, SJTW-A; 230V, 1ø, 16/3 SWT-A; 3ø, 16/4, STW-A, All cords 20' std. with 30' opt.				

Performance Data



Dimensional Data



Materials of Construction

Handle	Stainless Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel Bellows: Buna-N
Impeller	Engineered Thermoplastic
Upper Bearing	Single Row Ball Bearing
Lower Bearing	Single Row Ball Bearing
Bottom Plate	Single Row Ball Bearing
Fasteners	Stainless Steel
Legs	Engineered Thermoplastic

HP HYDROMATIC®
Pentair Pump Group

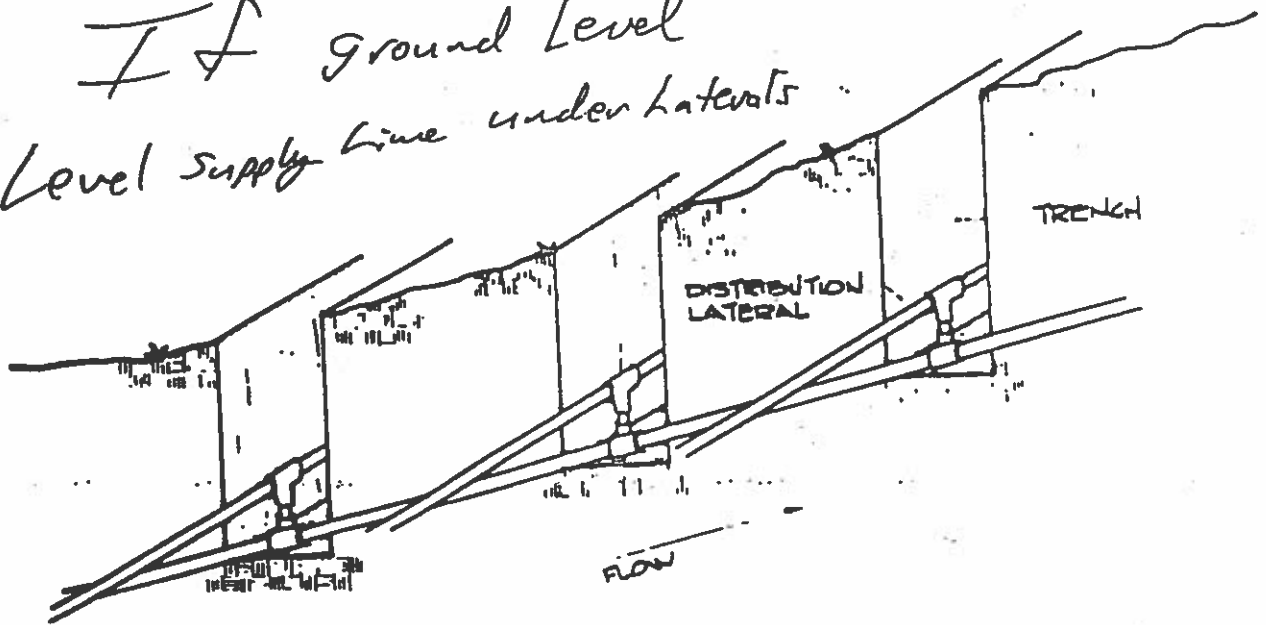
USA
1840 Boney Road Ashland, Ohio 44805
Tel: 419-289-3042 Fax: 419-281-4087

- Your Authorized Local Distributor -

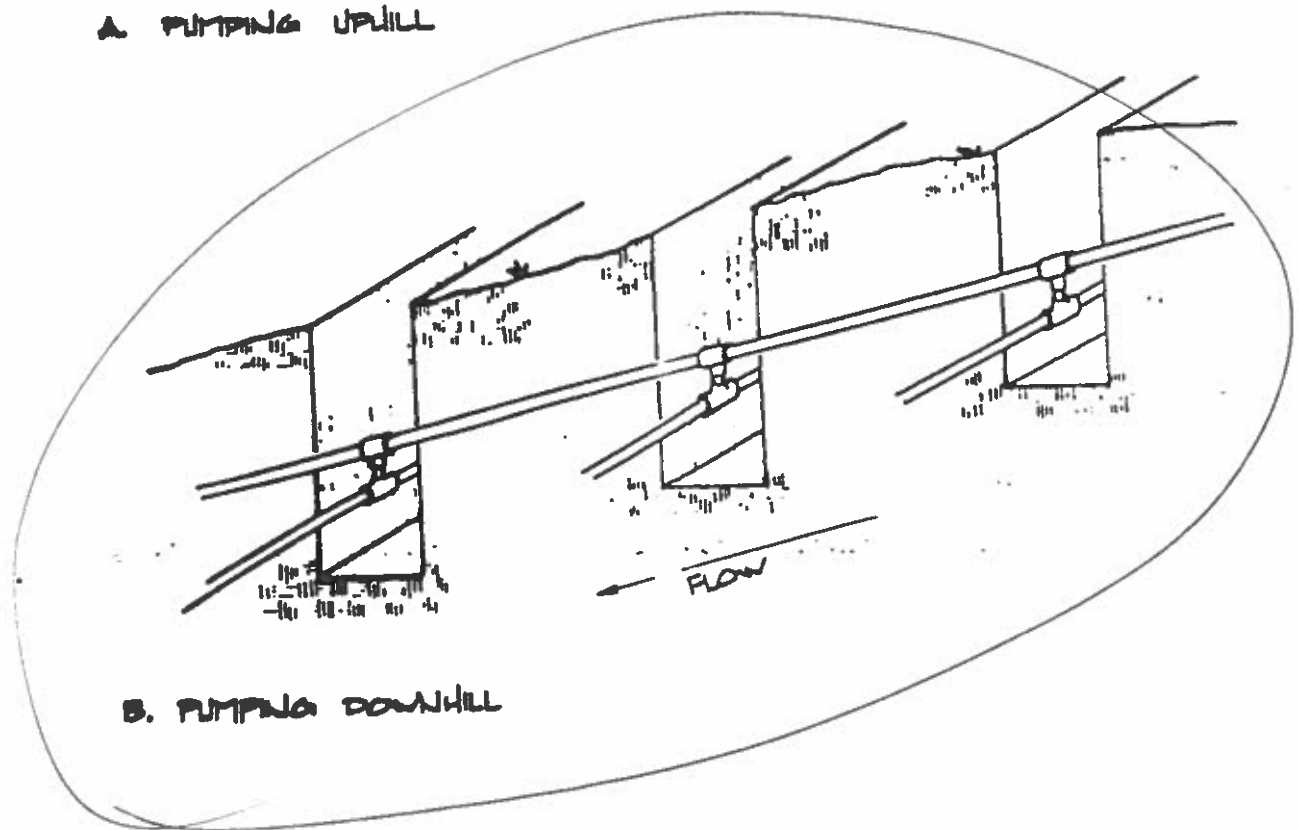
ISO 9001 Certified
www.hydromatic.com

CANADA
269 Trillium Drive Kitchener, Ontario, Canada N2G 4W5
Tel: 519-896-2163 Fax: 519-896-6337

$I \&$ Ground Level
 Level supply line under laterals



A. PUMPING UPHILL



B. PUMPING DOWNHILL

Figure 10. Manifold placement on slopes