

LAYOUT 2/21/06 INSP 4 \_\_\_\_\_  
 INSP 2 2/22/06 INSP 5 \_\_\_\_\_  
 INSP 3 2/23/06 INSP 6 \_\_\_\_\_

ISSUE DATE: 02/23/06

P 523649

APPROVAL DATE: 3/8/06

A 523649

**PERMIT**  
**INDEXED**

TAX ID #03-290395

**ON-SITE SEWAGE DISPOSAL SYSTEM**  
**HOWARD COUNTY HEALTH DEPARTMENT**  
**BUREAU OF ENVIRONMENTAL HEALTH**

Fyock Septic Services IS PERMITTED TO INSTALL  ALTER

ADDRESS: P. O. Box 89, Glenelg MD PHONE NUMBER: 410-988-9270

SUBDIVISION: \_\_\_\_\_ LOT NUMBER: \_\_\_\_\_ *Mauck*

ADDRESS: 12645 Old Frederick Road PROPERTY OWNER: John Kreider *443-459-*

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED  *3851*

PUMP CHAMBER CAPACITY (GALLONS): ~~1500~~ *1500* COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 300 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	
NOTES:	In support of future building permit for bedroom addition.

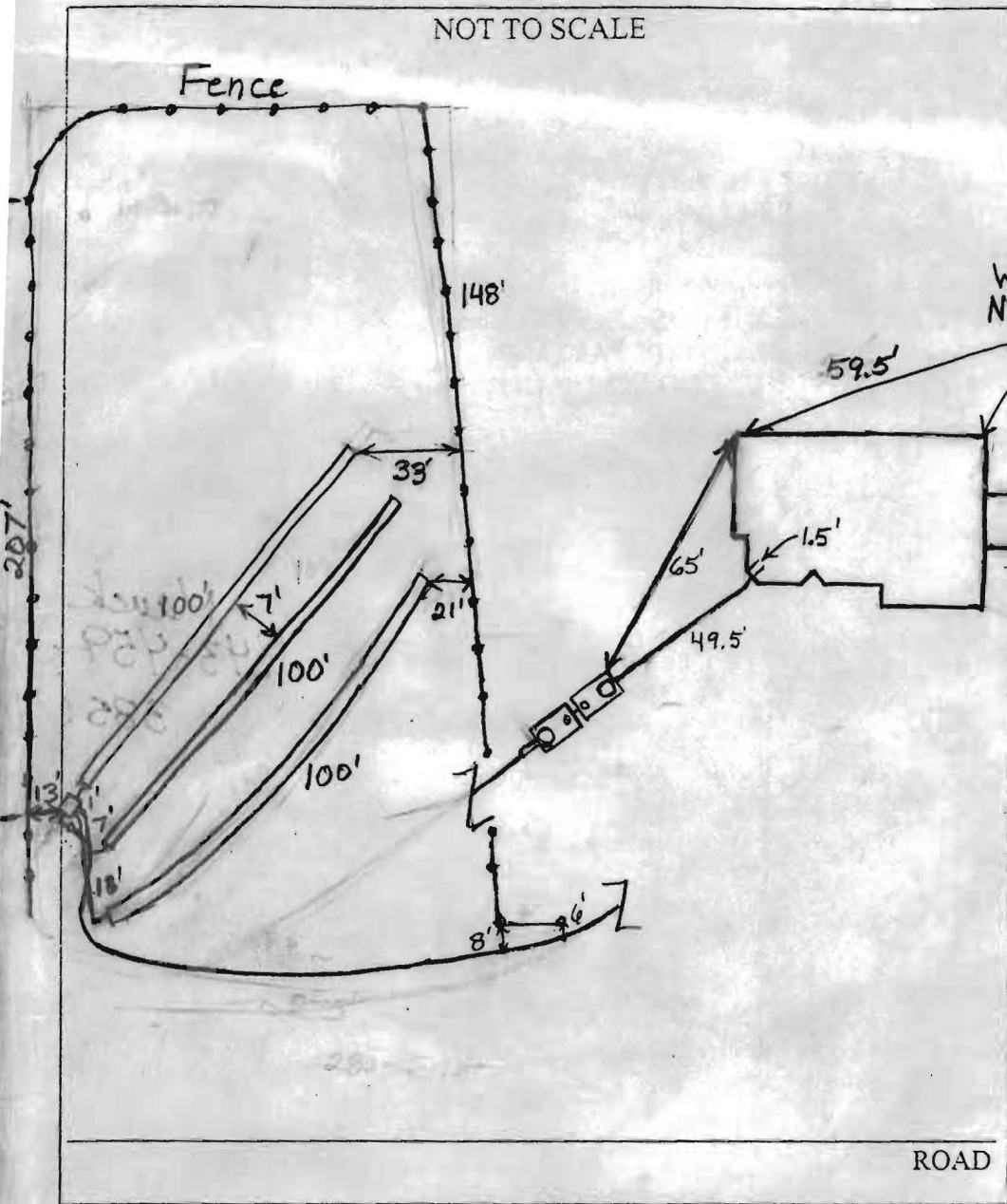
PLANS APPROVED: Kacie Noonan Reviewed by: \_\_\_\_\_ DATE: 12/12/05

NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

A 523649

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4.5'	6'
NUMBER OF TRENCHES		3
TOTAL LENGTH		300'
ABSORPTION AREA		900' + Sidewall
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	2'-3'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Front
BAFFLE FILTER	No
MANHOLE LOC	Rear
6" PORT LOC	Front
WATERTIGHT TEST	No

PRE-CONSTRUCTION 2/21/06 To install 3 - 100' trenches on contour between the two upper perc test holes. (BB)

INSTALLATION 2/22/06 Tanks set. (BB) 2/23/06 House connection done. Pump line and trenches installed. Trenches 6" deeper than specified on permit. Old septic tank pumped out and filled in per Robert Foyok. Need pump and alarm test. (BB)

3/8/06 Pump and alarm working. (BB)

FINAL INSPECTOR B. Baker DATE OF APPROVAL 3/8/06

**GOULDS PUMPS**



**Submersible Sewage Pump**

**SERIES 1DM/2DM**

**1 1/2" and 2" Sewage Pump**

**APPLICATIONS**

Non-clog submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 1 3/8" and 2" diameter made specifically for:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal package systems
- Industrial treatment systems
- Dewatering applications

**SPECIFICATIONS**

**Pump:**

- 1 1/2" discharge on 1/2 HP.
- 2" discharge on 3/4 HP and larger.
- Solid size: 1 3/8" solids on 1/2 HP; 2" solids on 3/4 HP and larger.
- Capacities: to 175 U.S. GPM (41 m<sup>3</sup>/h).
- Total heads: to 47 feet TDH (14 m).
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Maximum submergence: to 17 feet (5 m).
- AISI 304 SS casing.
- AISI 304 SS impeller.
- Continuous duty rated, non-overloading motor.

**Motor:**

- Single phase: 60 Hz, 3450 RPM, 1/2 HP, 115 V; 1/2 to 1 HP, 230 V.
- Three phase: 60 Hz, 3450 RPM, 1/2 to 1 1/2 HP, 230 and 460 V.
- Non-overloading.

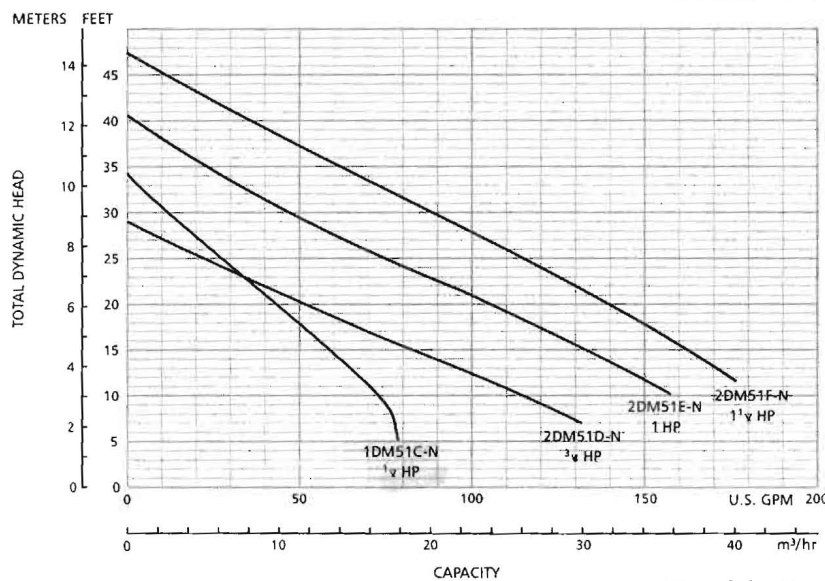
- Air-filled, class F insulated motor.
- Thermal overload protection: built-in with automatic reset on single phase, 115 V and 230 V models.
- Three phase models require external overload in panel.
- Power cord: 20 feet long.
- Single phase 115 V and 230 V models are supplied with molded NEMA plugs and built-in capacitors.
- Three phase models are supplied with bare leads.
- Float controls: optional, see accessory section for simplex or duplex system requirements.
- Rotation is clockwise when viewed from top.

**FEATURES**

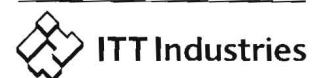
- **Casing:** Corrosion resistant AISI 304 SS designed for long lasting performance.
- **Impeller:** AISI type 304 stainless steel construction; two vane non-clog design for maximum pumping efficiency.
- **Mechanical Seal:** Drive lube silicon carbide sealing faces; all metal components of AISI type 300 stainless steel running in protected oil chamber.
- **Elastomers:** BUNA-N
- **Pump Support Feet; Motor Shell and Lifting Handle:** Constructed of AISI type 304 series stainless steel.

- **Shaft:** AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.
  - **Discharge:** 1 1/2" and 2" NPT for horizontal connection to rigid, flexible or guide rail piping connection.
- NOTE:** See accessory section guide rail systems, type A10-20 for simplex or duplex system.

Component	Material
Pump body and motor casing	Stainless steel (AISI 304)
Impeller	Stainless steel (AISI 304)
Lower mechanical seal	Silicon carbide/silicon carbide
Upper lip seal	Nitrile rubber
Motor Shaft	Stainless steel (AISI 304)
Handle	Nylon



**Goolds Pumps**



# Submersible Sewage Pump

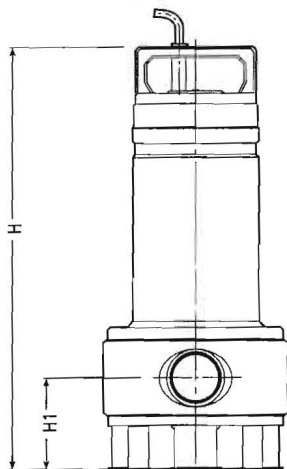
**SERIES 1DM/2DM**

## 1½" and 2" Sewage Pump

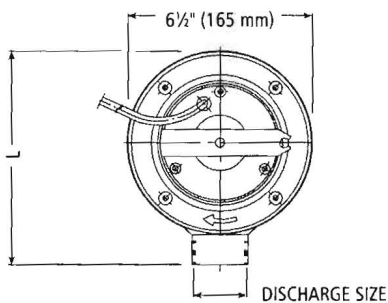
**MODEL INFORMATION**

Order Number	HP	Volts	Phase	Max. Amps	Start Amps	Capacitor uF/V	Resistance Start/Line-Line	RPM	Cord Length	Discharge Connection	Solids	Weight (lbs.)								
1DM51C0NA	½	115	1	9.8	51.0	70/250	1.6 / 0.6	3450	20'	1½"	1¾"	22								
1DM51C1NA		230		4.2	26.3	20/450	5.9 / 2.6													
1DM51C3NA		460	3	2.3	14.6	NA	NA / 11.7													
1DM51C4NA				1.2	7.5	NA	NA / 14.7													
2DM51D1NA	¾	230	1	5.4	27.2	22/450	4.4 / 1.9			3450	20'	2"	2"	30						
2DM51D3NA			3	3.4	24.9	NA	NA / 6.0							25						
2DM51D4NA		1.7		12.7	NA	NA / 7.8	34													
2DM51E1NA	1	230	1	7.0	30.6	30/450	4.2 / 1.9							3450	20'	2"	2"	30		
2DM51E3NA			3	4.4	29.8	NA	NA / 5.3											30		
2DM51E4NA		2.2		15.2	NA	NA / 6.6	32													
2DM51F3NA	1½	230	3	5.6	39.2	NA	NA / 3.7					3450	20'					2"	2"	32
2DM51F4NA		460		2.8	19.9	NA	NA / 4.8													

**DIMENSIONS**



Series	HP	Phase	Dimensions in inches (mm)			Discharge Size	Wt. (lbs.)
			H	H1	L		
1DM	½	3	15¾ (391)	3½ (88)	7½ (193)	1½"	20
		1					22
2DM	¾	3	17¼ (438)	4¾ (111.5)	7¾ (198)	2"	25
		1					30
	3	18 (458)	30				
	1	34					
	1½	3	18⅝ (478)				32



Goolds Pumps is a brand of ITT Water Technology, Inc. – a subsidiary of ITT Industries, Inc.  
Goolds Pumps and the ITT Engineered Blocks Symbol are registered trademarks and tradenames of ITT Industries.

Goolds Pumps

