LAYOUT 5/13/03 10:30AM INSP 4 Final 5/29 11AM

INSP 2 5/20/03 11-1 INSP 5 _____

INSP 3 5/28 Anytime well cap INSP 6 _____

ISSUE DATE: 5/8/03 P 518962

APPROVAL DATE: 5/28/03 INDEXED A 516476

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

03-339254

Lighthouse Homes Inc. (Farm & Home Excavating) IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS: 1915 Windyn Run Rd., Catonsville 21228 PHONE NUMBER: 410-442-5900

SUBDIVISION: Altenberg Property LOT NUMBER: 2

ADDRESS: 11814 Triadelphia Road PROPERTY OWNER: James & Joy Altenberg

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

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED ☒

NUMBER OF BEDROOMS: 4 (system sized for 5 bedrooms)

LOCATION:	Initial Sand Mound to be installed in 2nd replacement area. Install Sand Mound per approved plans dated 5/8/2003.
NOTES:	Initial Sand Mound area to be staked. Heavy equipment is not allowed on or directly down hill of any of the three (3) Sand Mound sites.

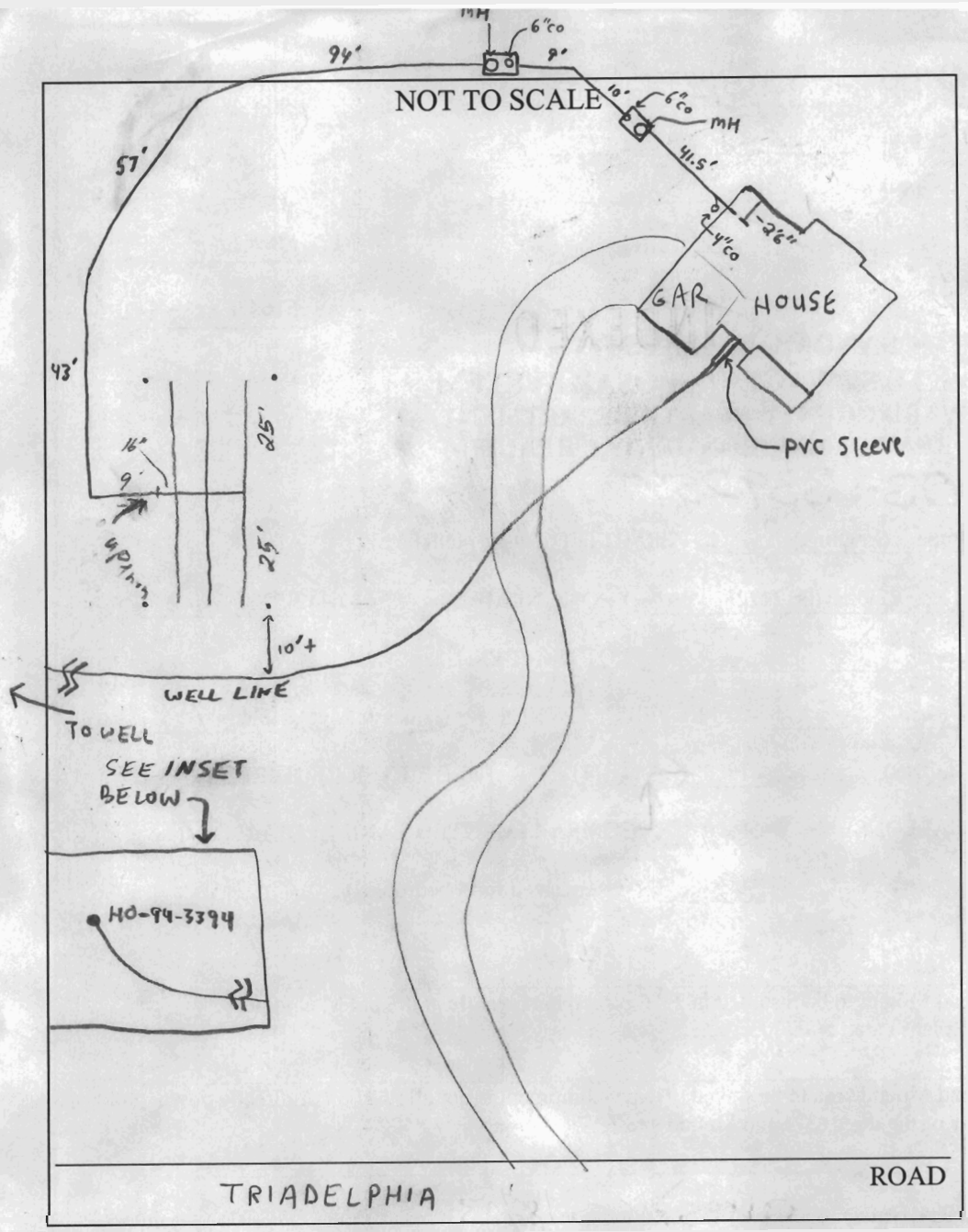
PLANS APPROVED: Steven R. Krieg OK SRK 5/8/03 DATE: 5/8/03

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
BUILDING PERMIT SIGNED 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM
AND RETURNED

5-21-03 B00142165-DECK
3-4-03 B00140522-UG PROPANE TANK

A516476



Top Seam
Tank 1 = 1500 2 compartment
Baffles in
Cleanouts on
Tank 2 = Top Seam
1500 gallon
Baffles in
Cleanouts on

PRE-CONSTRUCTION 5/13/03- TANKS SET, SDA STAKED, CONTRACTOR TO ALLOW MORE TIME FOR SOILS TO DRY PRIOR TO INSTALLATION - (SRK)

INSTALLATION 5/14/03- CONTRACTOR CONSTRUCTING SAND MOUND TODAY, OK BED PLOWED & SAND MOUND BEING CONSTRUCTED, OK TO CONTINUE WORK - (SRK) 5/20/03 Sand & gravel installed, no gravel on top of 2" lines. ∴ 2' in from ups, Alarm functional (SO) 5/28/03 Sand mound capped & covered (SO)

BUILDING PERMIT ISSUED
AND RETURNED
ROSE

FINAL INSPECTOR _____ DATE OF APPROVAL 5/28/03

ADDRESS No.: 11814 Triadelphia Road
Ellicott City, Maryland 21042

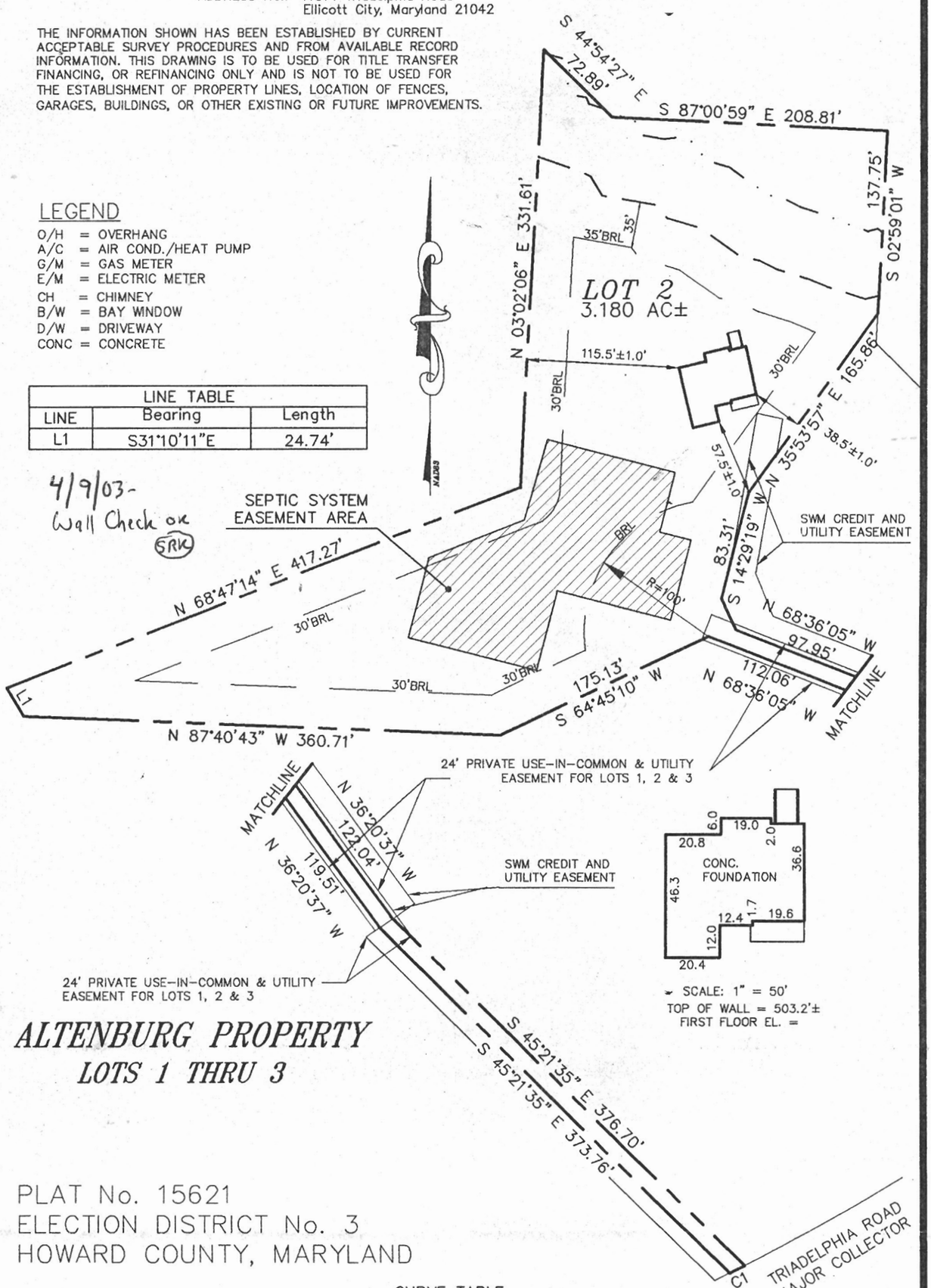
THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

LEGEND

O/H = OVERHANG
A/C = AIR COND./HEAT PUMP
G/M = GAS METER
E/M = ELECTRIC METER
CH = CHIMNEY
B/W = BAY WINDOW
D/W = DRIVEWAY
CONC = CONCRETE

LINE TABLE		
LINE	Bearing	Length
L1	S31°10'11"E	24.74'

4/9/03 - Wall Check ok SRK



ALTENBURG PROPERTY
LOTS 1 THRU 3

PLAT No. 15621
ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

CURVE TABLE

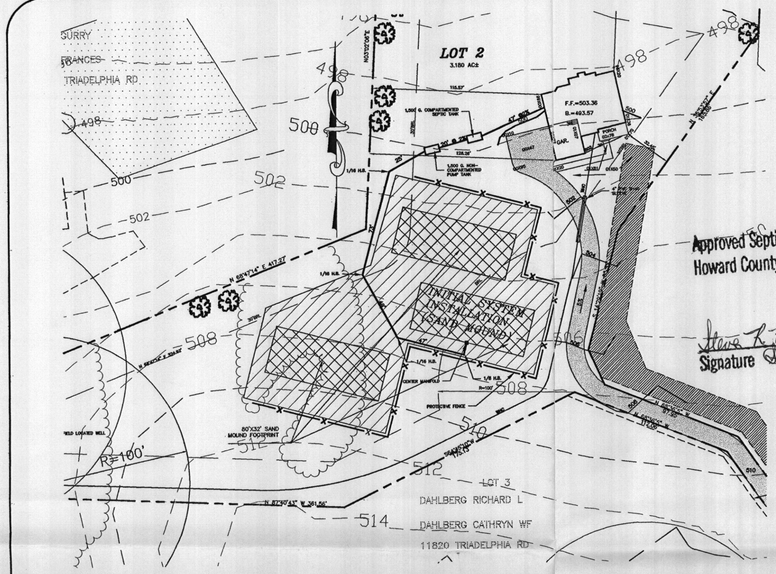
No.	Radius	Length	Delta	Tangent	Chord	Distance
1	2050.68	12.61	00°21'09"	6.31	N62°34'25"E	12.61

MILDENBERG BOENDER, & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.

FOUNDATION	DATE: 12/18/02	FINAL	DATE:
DRAWN BY: T. HILL		SCALE: 1" = 100'	
PROJECT NO.: 02-078	LOCATION DRAWING		

JOHN MILDENBERG
PROF. LAND SURVEYOR
MARYLAND No. 10718

01-059/DWG/WCLOT2.DWG

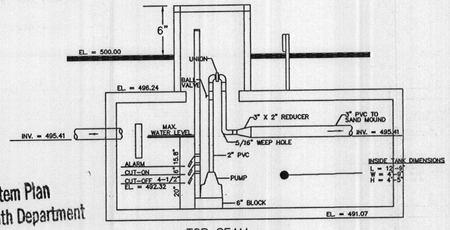


PLAN
SCALE 1"=50'

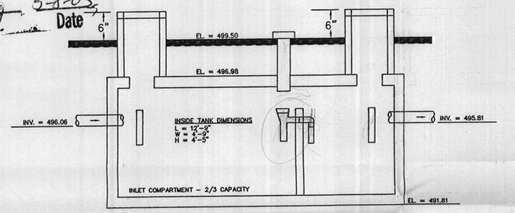
Approved Septic System Plan
Howard County Health Department

Signature

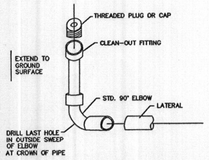
Date



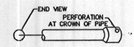
TOP SEAM
1500 GAL. SEPTIC TANK
NOT TO SCALE
MAYER BOTHERS, INC. 1,500 G. PUMP TANK OR EQUIVELANT



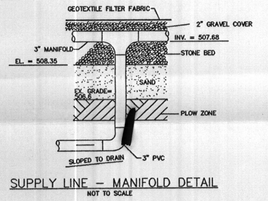
TOP SEAM
1500 GAL. SEPTIC TANK
NOT TO SCALE
MAYER BOTHERS, INC. 1,500 G. SEPTIC TANK OR EQUIVELANT



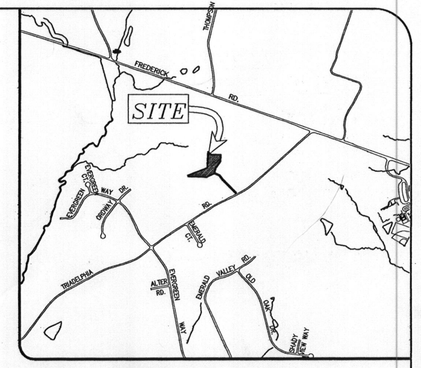
LATERAL END TURN-UP
USE ON LATERAL FARTHEST FROM PUMP
NOT TO SCALE



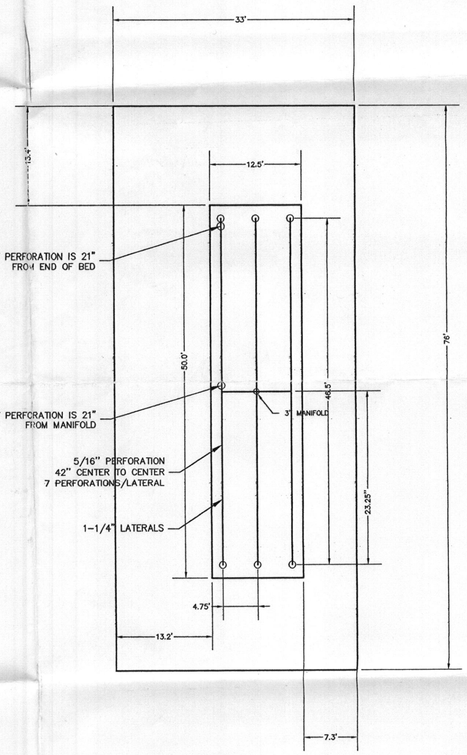
LATERAL END CAP
USE ON LATERALS NOT EQUIPPED WITH TURN-UP
NOT TO SCALE



SUPPLY LINE - MANIFOLD DETAIL
NOT TO SCALE



VICINITY MAP
SCALE: 1"=1500'



MOUND PLAN
SCALE H: 1"=50'
V: 1"=5'

PROFILE
SCALE H: 1"=50'
V: 1"=5'

LOT 2
SEPTIC SYSTEM DATA

FIRST FLOOR EL.	503.36
BASEMENT EL.	493.57
INV. OUT OF HOUSE	497.00
INV. IN SEPTIC TANK	496.06
INV. OUT SEPTIC TANK	495.81
EXIST EL. @ SEPTIC TANK	499.50
PROP EL. @ SEPTIC TANK	499.50
INV. INTO PUMP PIT	495.41
EXIST EL. @ PUMP PIT	500.00
PROP EL. @ PUMP PIT	500.00

NO BASEMENT GRAVITY SEWER SERVICE. BASEMENT SEWER WILL BE SERVICED VIA AN EJECTOR PUMP.

CALCULATIONS:

FLOW:
42 PERFORATIONS X 1.63 GPM=68.46 (USE 70 GPM)

HEAD:
STATIC=507.68-492.32=15.36'
TDH=15.36+2' (DISTAL END)+2.8' (FRICTION)=20.16'

OWNERS
Brenda G. and Jeffrey Altenburg
11810 Triadelphia Road
Ellicott City, Maryland 21042
Richard L. Dahlberg and Cathryn H. Dahlberg
11820 Triadelphia Road
Ellicott City, Maryland 21042

GOULDS PUMPS

Submersible Effluent Pump

MODEL

3885

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS
Specifically designed for the following uses:
- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS
Pump
- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES
■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.
■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.
■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Lockout on three phase models to guard against component damage on accidental reverse rotation.
■ **Fasteners:** 300 series stainless steel.
■ Capable of running dry without damage to components.
■ Designed for continuous operation when fully submerged.

MOTORS
■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
■ Class B insulation.

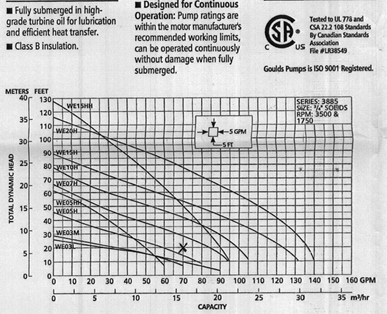
Single phase:
- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- ½ and ½ HP – 16/3 SJTOW with 115, 208 and 230 Volt three prong plug.
- 1½-2 HP – 14/3 STOW with bare leads.

Three phase:
- Overload protection must be provided in starter unit.
- ½-2 HP – 14/4 STOW with bare leads.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
■ **Bearings:** Upper and lower heavy duty ball bearing construction.
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS
Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

Goulds Pumps is ISO 9001 Registered.



X : OPERATING POINT

Goulds Pumps
ITT Industries

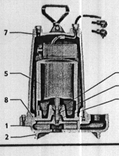
© 2002 Goulds Pumps
Effective October, 2002
B3885

www.goulds.com

GOULDS PUMPS

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Silicon carbide vs. silicon carbide Mechanical seal
4	Shaft
5	Motor
6	All Ball bearing heavy duty design
7	Power cable
8	O-ring



Submersible Effluent Pump

MODEL

3885

MODELS

Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	⅓	115	1	10.7	1750	¾"	56
WE0318L		200		6.8			
WE0312L		230		4.9			
WE0311M	½	115		10.7			
WE0318M		200		6.8			
WE0312M		230		4.9			
WE0511H	½	115		14.5			60
WE0518H		200		8.1			
WE0512H		230		7.3			
WE0538H		200		4.9			
WE0532H		230	3	3.3			
WE0534H		460		1.7			
WE0511HH	½	115		14.5			
WE0518HH		200	1	8.1			
WE0512HH		230		7.3			
WE0538HH		200		4.9			
WE0532HH		230	3	3.6			
WE0534HH		460		1.8			
WE0718H	¾	200	1	11.0			70
WE0712H		230		10.0			
WE0738H		200		6.2			
WE0732H		230	3	5.4			
WE0734H		460		2.7			
WE1018H	1	200	1	14.0			80
WE1012H		230		12.5			
WE1038H		200		8.1			
WE1032H		230	3	7.0			
WE1034H		460		3.5	3500		
WE1518H	1½	200	1	17.5			83
WE1512H		230		15.7			
WE1538H		200		10.6			
WE1532H		230	3	9.2			
WE1534H		460		4.6			
WE1518HH	1½	200	1	17.5			80
WE1512HH		230		15.7			
WE1538HH		200		10.6			
WE1532HH		230	3	9.2			
WE1534HH		460		4.6			
WE2012H	2	230	1	18.0			83
WE2038H		200	3	12.0			
WE2032H		230		11.6			
WE2034H		460		5.8			
WE0537H	⅓	575	3	1.4			60
WE0537HH				1.5			
WE0737H	¾			2.2			70
WE1037H	1			2.8			80
WE1537H	1½			3.7			
WE1537HH				3.7			
WE2037H	2			4.7			83

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE03L	WE03H	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
	HP	⅓	⅓	½	½	1	1½	½	1½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
Total Head Feet of Water	5	86	–	–	–	–	–	–	–	–
	10	70	63	78	–	–	–	58	–	–
	15	52	50	70	90	–	–	53	–	–
	20	27	35	60	83	98	123	49	90	136
	25	–	–	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	20	57	82	103	35	80	126
	40	–	–	–	45	74	95	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

DIMENSIONS
(All dimensions are in inches. Do not use for construction purposes.)

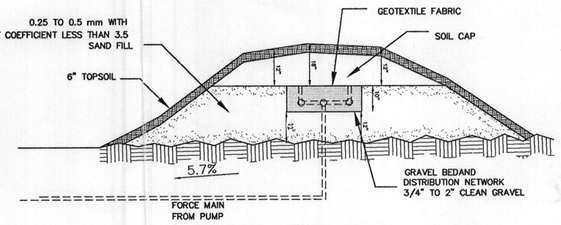
Goulds Pumps and the ITT Engineered Blocks Symbol are registered trademarks and tradenames of ITT Industries.

PRINTED IN U.S.A.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Goulds Pumps
ITT Industries

NOTE:
USE GOULDS 3885 SERIES PUMP OR EQUIVALENT
USE MODEL WE07H PUMP



MOUND SECTION
NTS

project 01059 | date OCT 2002
illustration SAA | engineering SAA | approval
scale

ALTENBURG PROPERTY
LOT 2
TAX MAP 16, PARCEL 312 & 310, BLOCKS 13 & 14
HOWARD COUNTY, MARYLAND
THIRD ELECTION DISTRICT

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors

1 OF

01059\dwg\01059-SEPTIC