

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
	2111/2112	8' / 14'	00:00	1:30	3:07	26:01	P
	2109/2110	7' / 14'	00:00	1:15	3:15	2	P
	2107	7' / 14'	00:00	1:53	5:12	3:20	P
	2105	(V)				4m	P
	2108						

REMARKS Establish 10,000 for Lot 1

SANITARIAN GAC/AT BACKHOE HATFIELD OTHERS TONY Fertitta JIM Greenfield

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

LEGEND

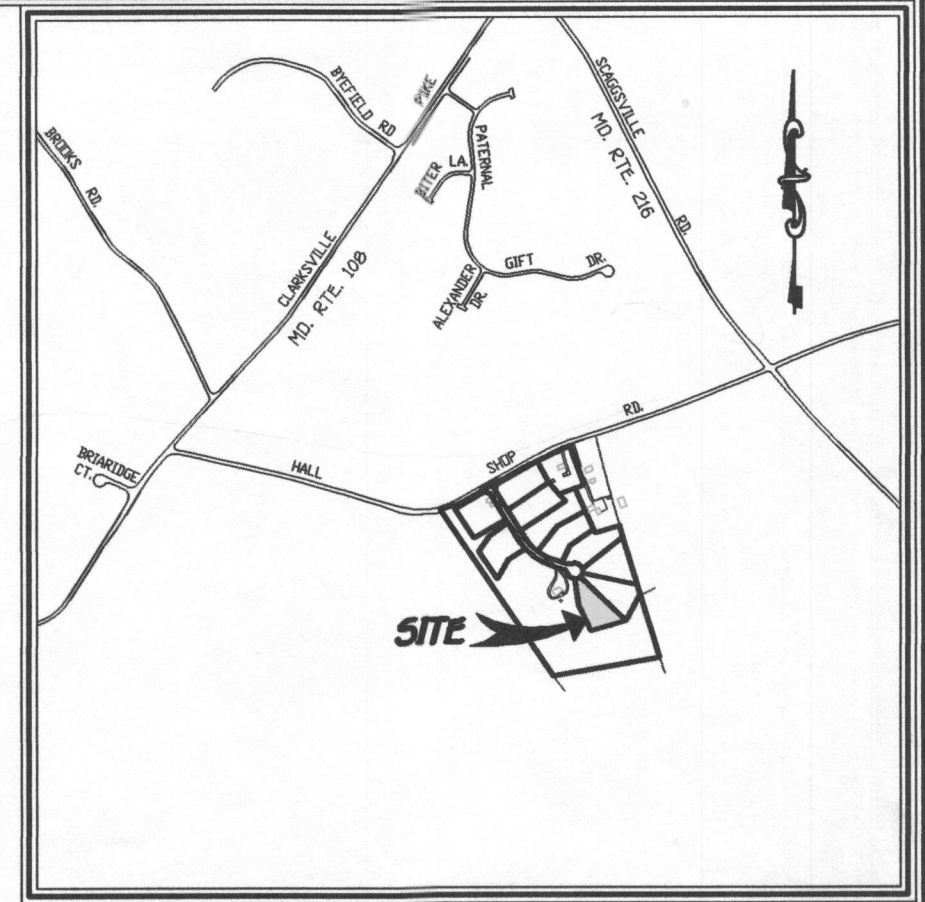
- - - - - EXISTING 2' CONTOURS
- - - - - EXISTING 10' CONTOURS
- ~ ~ ~ ~ ~ SOIL LINES AND TYPES
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- ⊗ DENOTES PROPOSED HOUSE
- ▨ DENOTES 25% AND GREATER SLOPE
- ⊕ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

SOILS LEGEND

SOIL	NAME	CLASS
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
ChC3	Chester silt loam, 8 to 15 percent slopes, severely eroded	B
EIkC3	Elioak silty clay loam, 8 to 15 percent slopes, moderately eroded	B
EIkC2	Elioak silt loam, 8 to 15 percent slopes, moderately eroded	B
EIkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B

NOTES:

- * Hydric soils and/or contains hydric inclusions
- ** May contain hydric inclusions
- † Generally only within 100-year floodplain areas



VICINITY MAP
SCALE : 1" = 1200'



GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 453 FOLIO 361, LIBER 3958 FOLIO 917, LIBER 3958 FOLIO 721
10. EXISTING SECTION LOTS 1 AND 7 IS TO BE REMOVED PRIOR TO FINAL PLAT SIGNATURE.

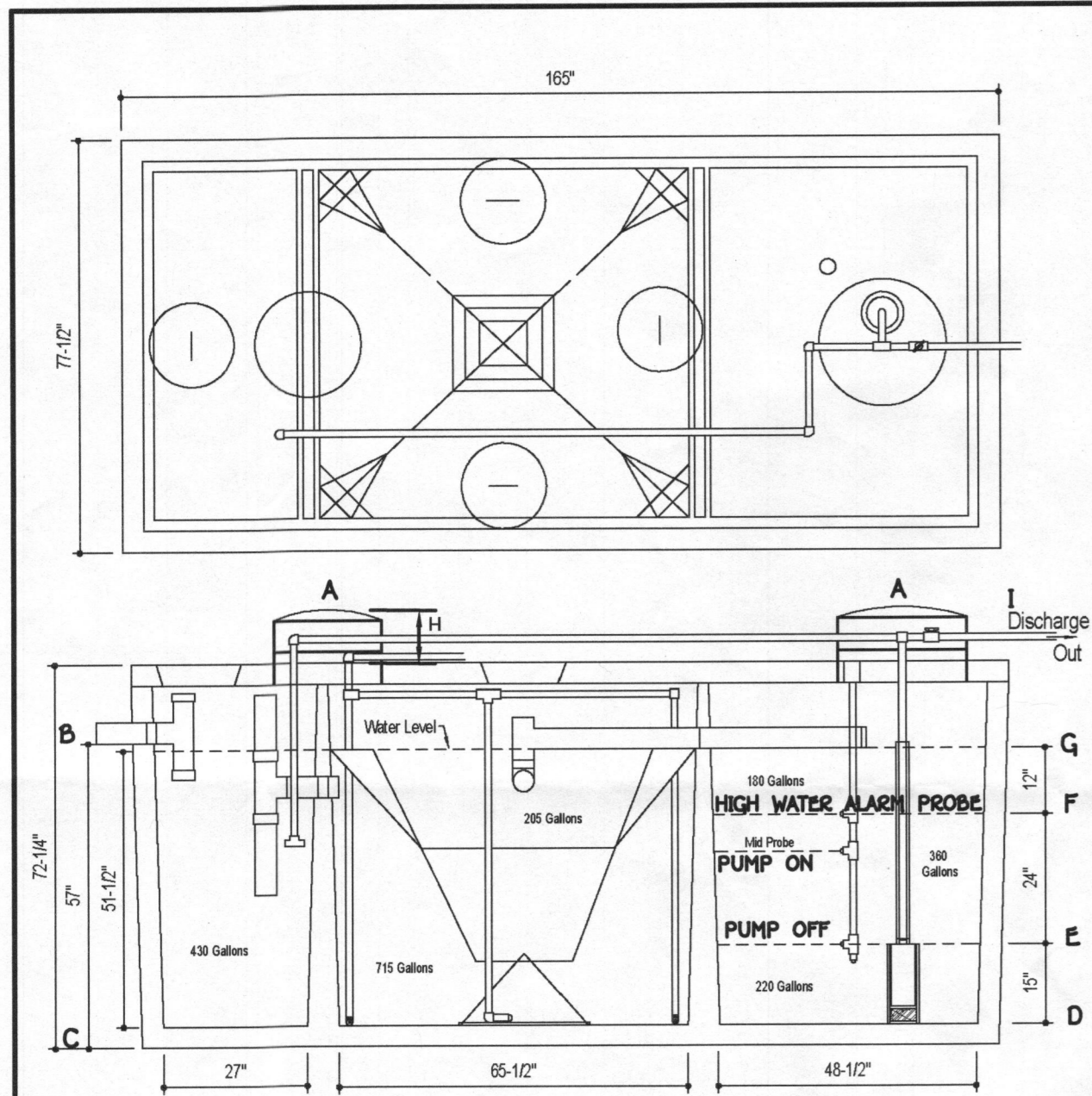
PERC CERTIFICATION
I certify that the locations shown herein are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.
Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692
Date: 2/13/07

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Signature of County Health Officer: [Signature]
Date: 2/20/07

**PERC CERTIFICATION PLAT
LOTS 1 THRU 11, BUILDABLE PRESERVATION PARCEL 'A'
DOUGLAS CARL PROPERTY**

(12803 HALL SHOP ROAD)
(12835 HALL SHOP ROAD)
TAX MAP #40 GRID: 10 PARCEL: 115
TAX MAP #40 GRID: 11 PARCEL: 149
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' DATE: FEBRUARY 12, 2007

OWNER AND DEVELOPER
DOUGLAS EDWARD CARL, TRUSTEE
122863 HALL SHOP ROAD
HIGHLAND, MARYLAND 20777-9546



DESIGN DATA & GENERAL NOTES

- Concrete strength F_{cm} = 4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Concrete - Portland Type III per ASTM C 150.
- Reinforcing steel per ASTM A 618 & C 404.
- Reinforcing per ASTM A 185, Min. 1/4" cover.

Maver Brothers, Inc.
 600 GPD BNR SYSTEM
 H-600 BNR
 with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1 No Scale March 18, 2008

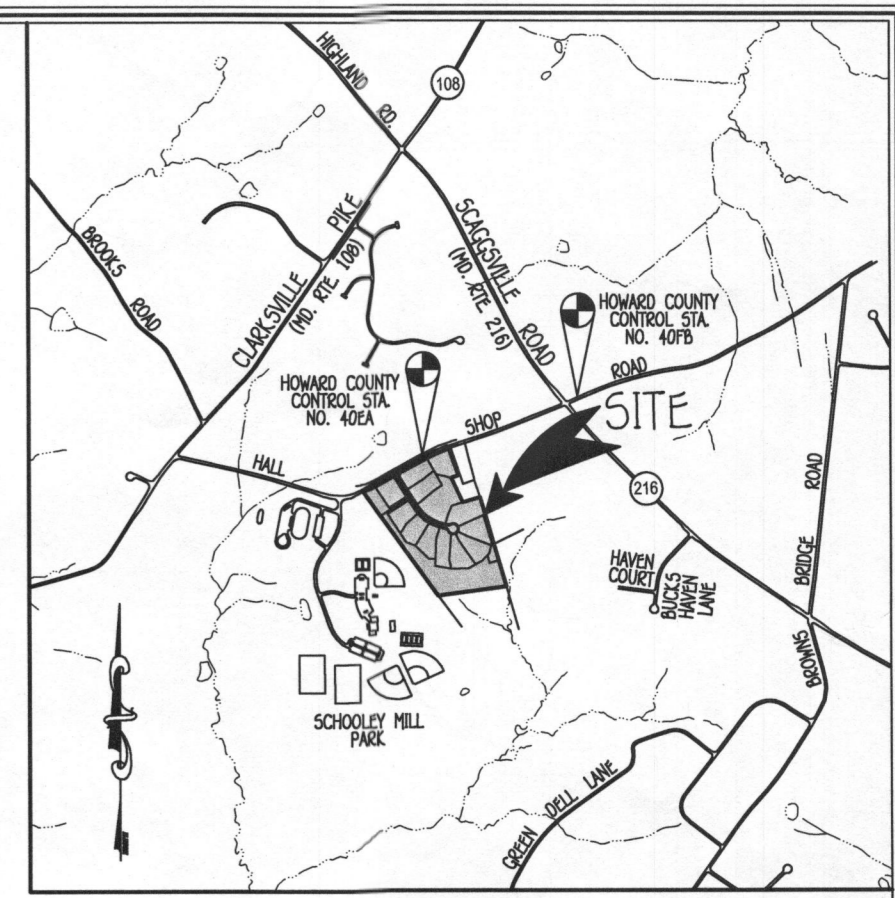
SEPTIC SYSTEM ELEVATIONS

A = 509.47
 B = 507.20 (INV. INTO TANK)
 C = 502.18
 D = 502.51
 E = 503.76
 F = 505.76
 G = 506.76
 H = 1.27' (7" MIN.)
 I = 508.47 (INV. OUT OF TANK)

FFE = 513.12
 BSE = 503.10
 INV. OUT OF HOUSE = 507.85
 INV. INTO DISTRIBUTION BOX = 505.90
 TOP OF TANK ELEV. = 508.20

NOTE:
 THE PROPOSED HOUSE IS TO HAVE 5 BEDROOMS.

- BAT NOTES**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM COVER OVER THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRAFFIC BEARING TANK IS REQUIRED.
 - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
 - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
 - THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
 - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
 - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - AN AGREEMENT AND EASEMENT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER 14780, FOLIO 067.
 - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
 - SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
 - AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES BENEATH PROBE.
 - IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
 - ALARM IS WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.



VICINITY MAP
 SCALE: 1" = 2000'
 HO. CO. ADC MAP NO. 5051,
 GRIDS G-3 & G-4 & H-3 & H-4

BENCH MARKS

T.P. 406A
 N. 547.911.991
 E. 1.324.510.091
 LOC. NEAR INTERSECTION OF
 HALL SHOP ROAD & ENTRANCE
 TO SCHOOLEY MILL PARK

T.P. 407B
 N. 548.470.386
 E. 1.326.000.805
 LOC. NEAR INTERSECTION
 OF HALL SHOP ROAD &
 SCAGGSVILLE ROAD

ITT **GOULDS PUMPS** Wastewater

ITT **GOULDS PUMPS** Wastewater

APPLICATIONS

- Specifically designed for the following uses:
 - Effluent systems
 - Homes
 - Farms
 - Heavy duty sump
 - Water transfer
 - Dewatering

SPECIFICATIONS

- Solids handling capability: 1/2" maximum.
- Capacities: up to 60 GPM.
- Total heads: up to 31 feet.
- Discharge size: 1 1/2" NPT.
- Mechanical seal: carbon-rotary/ceramic-stationary. Buna-N elastomers.
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Motor:

- EP04 Single phase: 0.4 HP 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- EP05 Single phase: 0.5 HP 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- Power cord: 10 foot standard length, 16/3 SJTW with three prong grounding plug. Optional 20 foot length, 16/3 SJTW with three prong grounding plug (standard on EP05).
- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

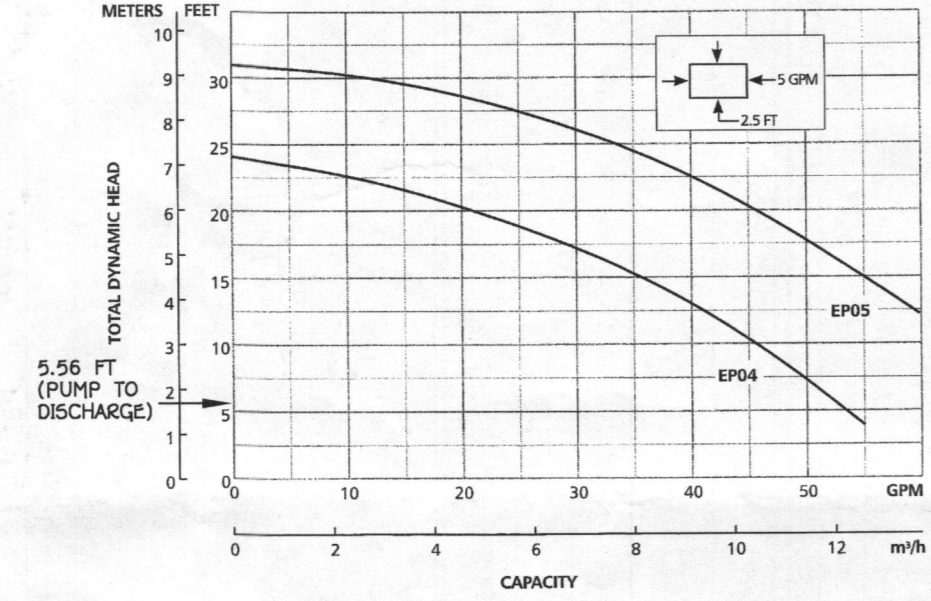
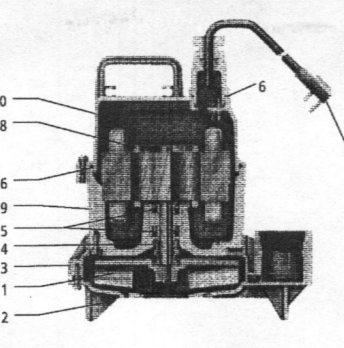
Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.

PERFORMANCE RATINGS

Total Head (ft. at rated)	Gallons Per Minute	
	EP04	EP05
5	53	—
10	46	62
15	36	55
20	21	46
25	0	33
30	—	11

COMPONENTS

Item No.	Description
1	Impeller
2	Base
3	Pump Casing
4	Mechanical Seal
5	Ball Bearings
6	O-Rings
7	Power Cord
8	Oil Filled Motor
9	Motor Housing/ Motor Assembly
10	Motor Cover



MODEL INFORMATION

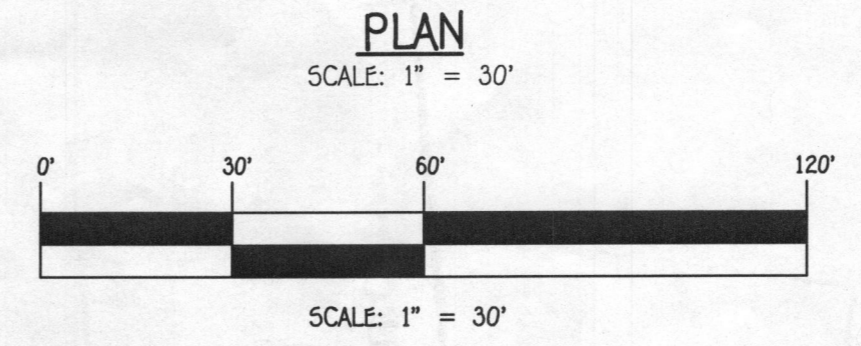
Order No.	HP	Volts	Amperage	Minimum Circuit Breaker	Phase	Float Switch Style	Cord Length	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight	Boxing
EP0411		115	12	20		Plug / No Switch	10'	1 1/2"	Manual	Manual	15"		20 / 9.1	
EP0411A		115	12	20		Plugback / Wide-Angle	10'	1 1/2"	Manual	Manual	15"		21 / 9.5	
EP0411F		115	12	20		Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20 / 9.1	
EP0411AC		115	12	20		Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		21 / 9.5	
EP0412		230	6	10	1	Plug / No Switch	10'	1 1/2"	Manual	Manual	15"	1/2"	20 / 9.1	
EP0412F		230	6	10	1	Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		20 / 9.1	
EP0511F		115	13	20		Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22 / 10	
EP0511AC		115	13	20		Plugback / Wide-Angle	20'	1 1/2"	Manual	Manual	15"		23 / 10.4	
EP0512F		230	6.5	10		Plug / No Switch	20'	1 1/2"	Manual	Manual	15"		22 / 10	



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 9753, EXPIRATION DATE: 2/28/14.

Earl D. Collins
 DATE: 12.16.13



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2995

BUILDER/DEVELOPER

NV HOMES
 9720 Patuxent Woods
 COLUMBIA, MARYLAND 21046
 410-379-5956

SCHOOLEY MILL FARM
 SITE PLAN FOR BAT INSTALLATION
 FOR LOT 1
 12835 HALL SHOP ROAD
 Zoned: RR-DEO
 Tax Map No. 40; Grid No. 10 & 11; Parcel No. 115 & 149
 Fifth Election District - Howard County, Maryland
 Date: December, 2013 Scale: As Shown