

Bureau of Environmental Health

7178 Gateway Drive (410) 313-2640 Columbia, MD 21046 Fax (410) 313-2648

TDD (410) 313-2323

Toll Free 1-866-313-6300

website: www.hchealth.org

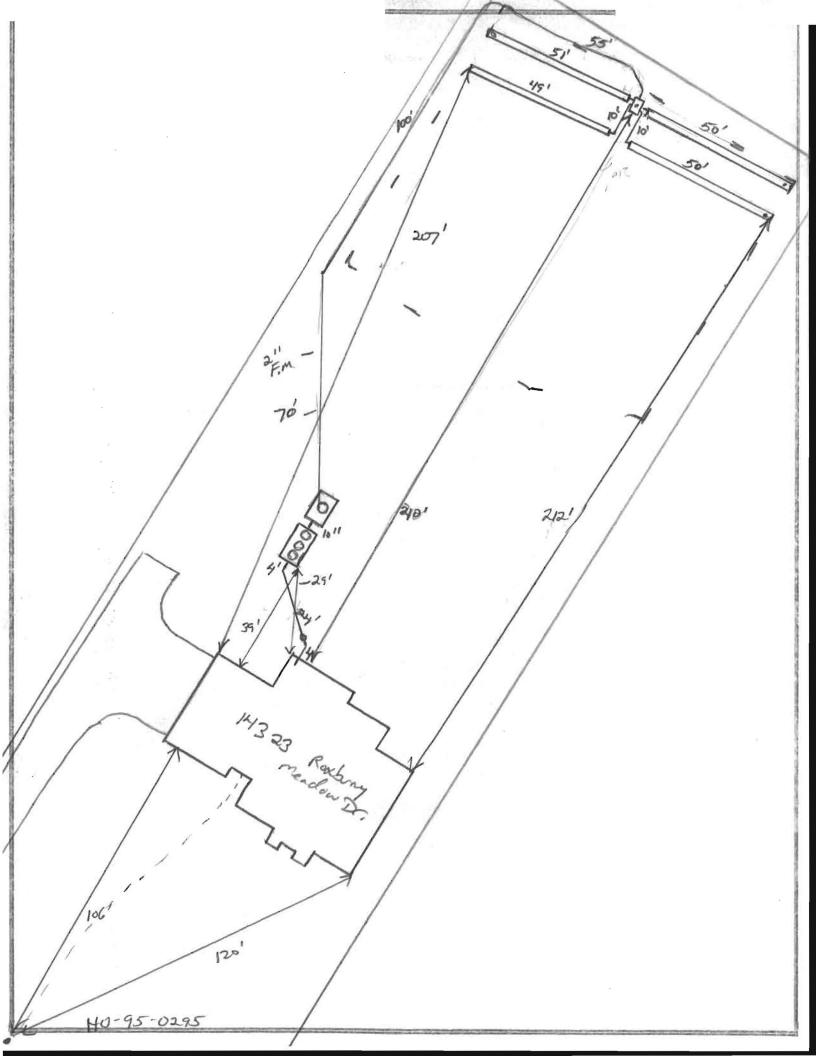
Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 4-9-14 ONSITE SEWAGE DISPOSA	AL SYSTEM P 546394		
INSTALLATION APPROVAL DATE: 7/28/14 (Kine) PERMIT	Α		
CONSTRUCTIO	N		
PROPERTY ADDRESS: 14323 Roxbury Meadow Drive			
SUBDIVISION: Clarks Meadow	LOT: 22 TAX ID:		
CONTRACTOR: Hatfield's Equipment	EMAIL: ken@hatfieldsequipment.com		
CONTRACTOR ADDRESS: P.O. BOX 519 Annapolis Junction, MD 2170	PHONE: 301-490-4289		
PROPERTY OWNER: DH LAND LLC	EMAIL:		
OWNER ADDRESS: 5034 Dorsey Hall Drive Suite 102, Ellicott City, M	D 21042 PHONE:		
DAT HAUT MODEL: Norwees	DAT UNIT SIZE. COCCDD		
BAT UNIT MODEL: Norweco BAT UNIT SIZE: 600GPD			
PUMP CHAMBER CAPACITY (GALLONS). 1500 PUM	лр size:		
NUMBER OF BEDROOMS: 4 HÔUSE SQ. FT.	APPLICATION RATE: 1.2		
DISTRIBUTION SYSTEM: GRAVITY FED 🖂 LOW PRESSURE	DOSED		
LINEAR FEET REQUIRED: SEE BAT PLAN	INLET DEPTH: SEE BAT PLAN 3		
TRENCHES: TRENCH WIDTH: SEE BAT PLAN 2	MAXIMUM BOTTOM DEPTH: SEE BAT PLAN &		
MINIMUM SPACE BETWEEN TRENCHES: SEE BAT PLAN EFFE	CTIVE AREA BEGINNING DEPTH: SEE BAT PLAN		
SETWEEN INCINETION STATE OF THE SET OF THE S	= =		
LOCATION: PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BASURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	T UNIT LOCATION MUST BE STAKED BY LICENSED		
Pump and alarm test required for final approval of septic syste	· ·		
Set BAT unit & pump tank upgrade of SWM Inlet and at least 25 feet away from Inlet. NOTES: Pump & Alarm Test required for final approval of septic system installation.			
	•		
ISSUED BY: Robert Bricker ISSUE DATE:	69-14 EXPIRATION DATE: 6-9-15		
NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION	PRIOR TO BEGINNING ANY INSTALLATION		
NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVA	AL OF ALL COMPONENTS PRIOR TO COVERING		
NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.			
NOTE: WATERTIGHT SEPTIC TANKS REQUIRED NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL			
NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS			
NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM			
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTI	H DEPARTMENT IS RESPONSIBLE FOR THE		

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 TO SCHEDULE INSPECTIONS.

NOT TO COAL D	TRENCH/DRAINFIELD DATA	
NOT TO SCALE	WIDTH INLET, BOTTOM 2 3.5 8	
	NUMBER OF TRENCHES 4	
·	TOTAL LENGTH	
	ABSORPTION AREA 400 +5W	
	DISTRIBUTION BOX LEVEL 4	
,	DISTRIBUTION BOX BAFFLE 900 ben	
	DISTRIBUTION BOX PORT	
	SEPTIC TANK DATA	
	SEPTIC TANK 1 LEVEL	
See Separate Sheet For As-Built	MANUFACTURER BUCKEY	
16 Somerate Sheet	CAPACITY Notweed GAL	
Dee Depoile	SEAM LOC	
-	BAFFLES	
	BAFFLE FILTER	
La A, Rult	MANHOLE LOC Front Control	
(401 42- DOLLO	6" PORT LOC	
	SLOTTED	
	DATE ON LID	
	PUMP/SEPTIC TANK LEVEL	
	MANUFACTURER MO Concrete	
	CAPACITY 1500 GAL	
	SEAM LOC	
	TANK LID DEPTHBAFFLES	
	BAFFLE FILTER	
	MANHOLE LOC Trac	
	6" PORT LOC	
	SLOTTED	
ROAD NAME	DATE ON LID	
PAT CONCERNICATION		
PRE-CONSTRUCTION:	Pulled of home	
danna ad located bet at RAT plan. ?	in purelme on	
outerds of sRH as shown. Install 4x 50	tracks cramy	
in both drections Dhan on middle Tracks	to be Windle-	
Inlet @ 3' hodhun @ 8' (D)		
INSTALLATION: 6/30/14 Contactor working on trenches	hooks good. Stone	
clear. Not very transit. Must use transit	to metall trendes (Ris)	
7/1/14 Take set. SHC motall F.M. metalled up to Dook		
Had contenter remove buffle in Dbox and is	utall 45° bend.	
OK to cover all work. Need BAT stating and pump / slum test		
of switch RW 7/2/14. RAT stort no condition revend.		
Need summe Fest of system 7/28/14 start-up of BAT unit		
vertied, Pump test of system successful. Told contrater electores		
reed to place alor of buck up battery or kep separate from other supplies		
FINAL INSPECTOR K. Half DATE OF APPROVAL 7/28/14		
power sorces.		



Back River Pre-Cast, LLC

PO BOX 329 Glyndon, MD 21071 Phone # 410-833-3394 Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 14323 Roxbury Meadow Dr., Glenwood, MD 21738 July 1, 2014 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

MATTHEW GECKLE

Vice-President



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toli Free 1-866-313-6300 www.hchealth.org

> Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

OPERATION AND MAINTENANCE AGREEMENT FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM HAVING AN ADVANCED PRE-TREATMENT SYSTEM

THIS AGREEMENT is made this 22 day of May 20 Plant A. and Tricia A. Boyce hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at [4323 Rodowy Meadow Drive, Glenwood, Md. 2173B, in the 4th Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber [5027] Folio [0312].

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

- F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.
- G. This agreement may be voided at any time at the discretion of the County.
- H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.
- I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.
- J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Owner

Paul A. Boyce

Date

Trecia A. Boyce

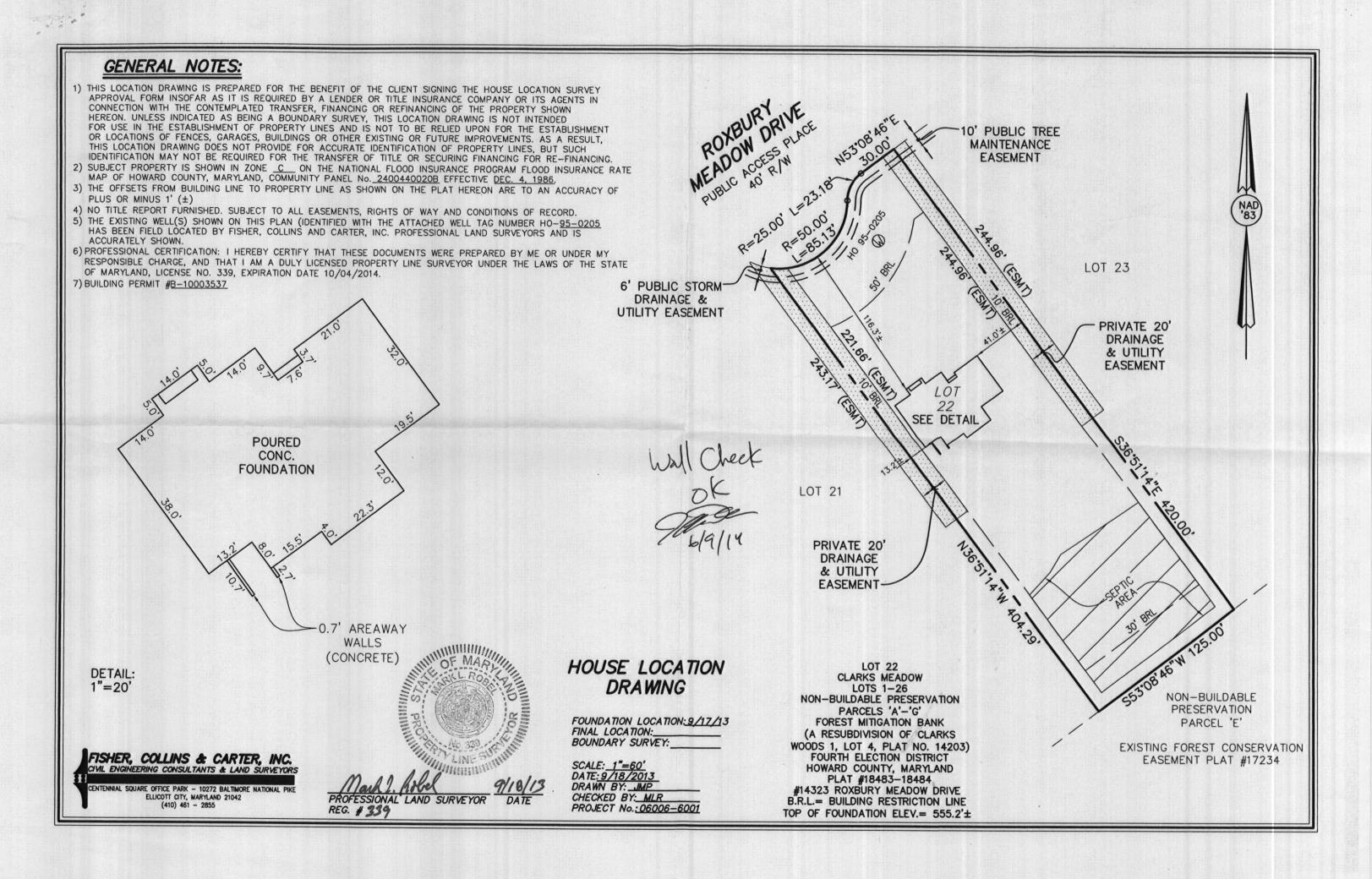
Howard County Health Department

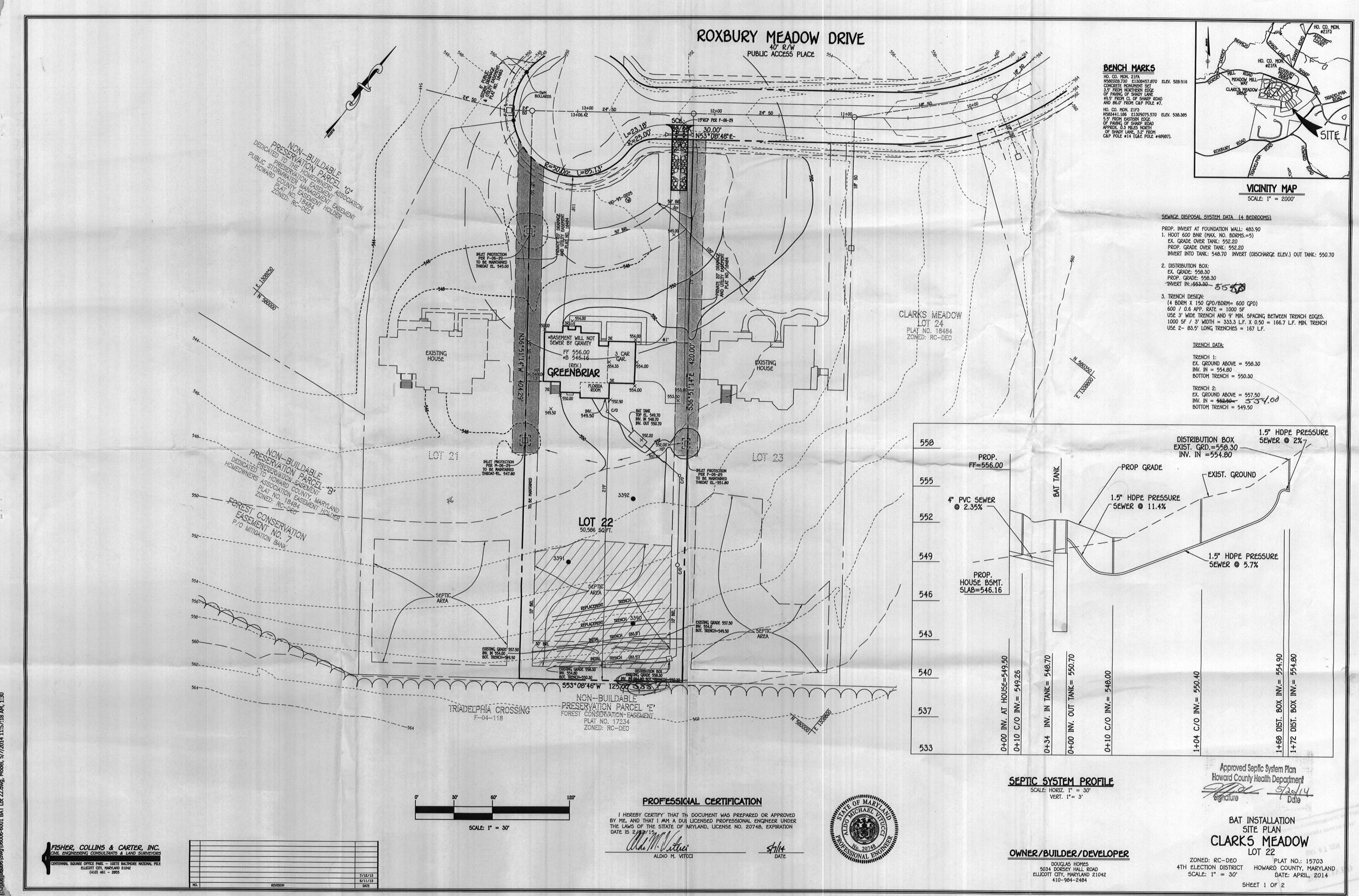
Clerk of the Circuit Court for Héward County Land Records/Licensing

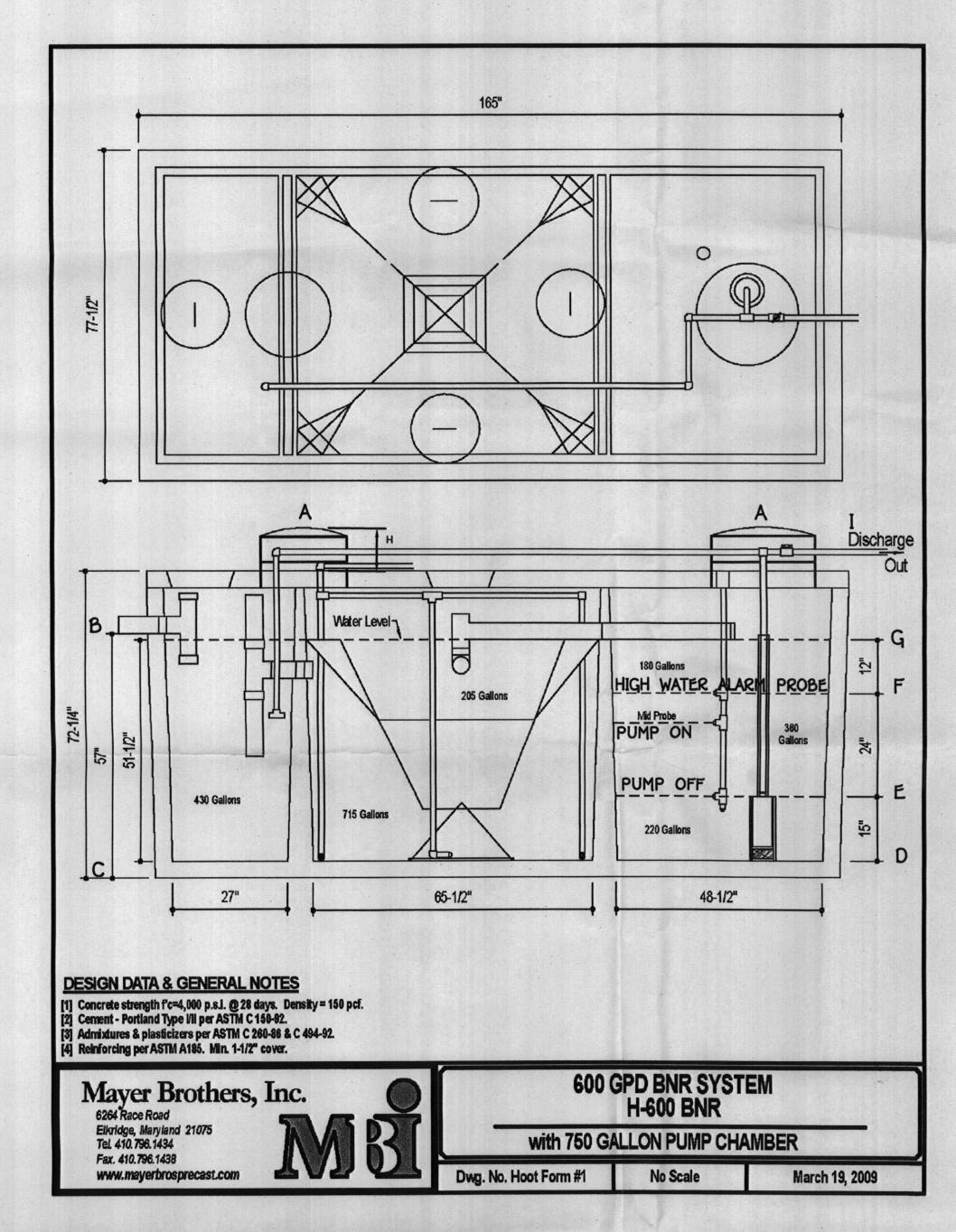
The Thomas Dorsey Building 9250 Bendix Road Columbia, MD 21045 410-313-5850

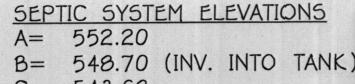
410-313-5850	
LR - Agreement Recording Fee 1x 20.00 Grantor/Grantee Name: Boyce Reference/Control #: 75	20.00
LR - Agreement Surcharge 1x 40.00	40.00
SubTotal: Total:	60.00 60.00
REV-Check-BOA Number : 3647	60.00
05/22/2014 09:04 #2819201 /494/109 ************ DUPLICATE #001 ***	CC13-JE
05/22/2014	CC13-JE today

14323 Roberty Meadow Chen wood mi)









D= 544.01 E= 545.26

F= 547.26 G= 548.26 H= 2.50' (7" MIN.)

I= 550.70 (INV. OUT OF TAIK)

FFE = 556.00BSE = 546.16INV. OUT OF HOUSE = 554.0INV. INTO DISTRIBUTION BOX = 554.80TOP OF TANK = 549.70DOSE VOLUME = 60 GAL. TIME PER DOSE = 2 MIN.

NOTE:

THE PROPOSED HOUSE IS TO HAVE 4 BEDROOMS.

DYNAMIC HEAD CALCULATIONS

INVERT AT DISTRIBUTION BOX = 554.80
FRICTION HEAD LOSS VERTICALLY FROM
TANK TO DISTRIBUTION BOX = 9.90 FT.
FRICTIONAL LOSS IN
183 L.F. OF 1.5 INCH PVC = 7.30 FT.
TOTAL DYNAMIC HEAD = 17.20 FT.



GOULDS PUMPS

• EP05 Single phase: 0.5 HP, 115 V or 230V, 60 Hz, 1550

 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 (standar

 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.

RPM, built in overload with automatic reset.

Specifically designed for the following uses:

• EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.

Homes

Heavy duty sump
 Water transfer

• Dewatering

SPECIFICATIONS

Solids handling capability: ¾" maximum.
 Capacities: up to 60 GPM.

Table bands and 24 feet.

Total heads: up to 31 feet.
Discharge size: 1½" NPT.
Mechanical seal: carbon-rotary/ceramic-stationar 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

Order No. HP Volts Amps Circuit Breaker Phase Float Switch Style Length Connection Plug / No Switch 10' 11/2" Manual Manual 1.

| EP0411A | EP0411A | EP0411F | A | EP0411AC | EP0412F | EP0511F | EP0511F | EP0512F | 230 | 6.5 | 10 | EP0512F | 230 | 6.5 | 10 | Plug / No Switch | 20' | 1½" | Manual | Manual | 15" | 20/9.1 | Manual | Manual | 15" | 20/9.1 | Manual | Manual | 15" | 20/9.1 | Manual | Manual | 15" | 3" | 20/9.1 | Manual | Manual | 15" | 3" | 20/9.1 | Manual | Manual | 15" | 3" | 20/9.1 | Manual | Manual | 15" | 20/9.1 | Manual | Manual | 15" | 20/9.1 | Manual | Manual | 15" | 22/10 | Manual | Manual | 15" | 23/10.4 | Manual | Manual | 15" | 23/10.4 | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | 15" | 22/10 | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual | Manual | Manual | 15" | 22/10 | Manual | 15" | 22/10 | Manual | Manual | Manual | Manual | Manual | 15" | 22/10 | Manual | Manual



GOULDS PUMPS
Wastewate

NCE RATINGS

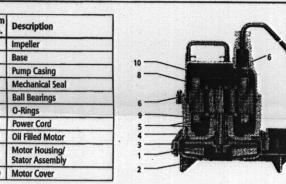
Total Head (ft. of water)

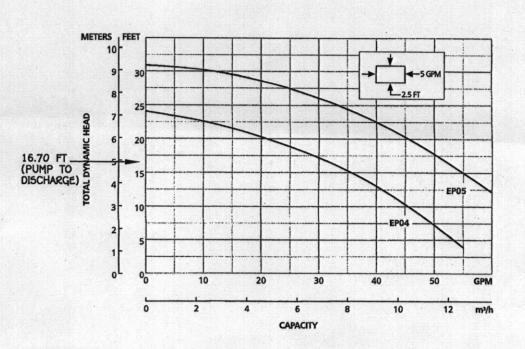
Solution | Gallons Per Minute | EP04 | EP05 |

Solution | EP05 | EP05 |

Solution | EP04 | EP05

Item No. Descr 1 Impel 2 Base 3 Pump 4 Mech 5 Ball B 6 O-Rin 7 Powe 8 Oil Fil





BAT NOTES

- 1. 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.

 2. 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.
- 3. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- 4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- 5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- 6. 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
- 7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- 8. 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.
- 9. 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.
- 12. IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.

13. ALARM TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

OWNER/BUILDER/DEVELOPER

DOUGLAS HOMES
5034 DORSEY HALL ROAD
ELLICOTT CITY, MARYLAND 21042
410-984-2484

BAT INSTALLATION
SITE PLAN
CLARKS MEADOW
LOT 22

ZONED: RC-DEO 4TH ELECTION DISTRICT 5CALE: 1" = 30' PLAT NO.: 15703 HOWARD COUNTY, MARYLAND DATE: APRIL, 2014

SHEET 2 OF 2

