

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 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: 12/18/12 **ONSITE SEWAGE DISPOSAL SYSTEM** P 544454

INSTALLATION APPROVAL DATE: 4/9/2014 **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 8116 Holly Manor Way

SUBDIVISION: Holly House Meadows LOT: 6 TAX ID: 05-452635

CONTRACTOR: South Carroll EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: Holly House Development EMAIL: _____

OWNER ADDRESS: 14045 Gared Drive, Glenwood, MD 21738 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT.: +3900 APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>103.33</u>	INLET DEPTH: <u>3 5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5 7'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9 6</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2 5'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set septic tank per layout inspection. Set distribution box per layout inspection. Install 103.33' of trench on contour.	

ISSUED BY: Dana Bernard ISSUE DATE: 12-11-13 EXPIRATION DATE: 12/18/13

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL 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 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 SCALE

See As-Built Drawing On
Separate Sheet

ROAD NAME

PRE-CONSTRUCTION

12/16/2013 Layout done. (BB)

INSTALLATION:

12/18/2013 System finished but trenches must
be located at future time due to construction. (BB)

4/9/2014 Trenches located. (BB)

FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

4/9/2014

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 5' BOTTOM 7'

NUMBER OF TRENCHES 2

TOTAL LENGTH 111'

ABSORPTION AREA 333 Sidewalk

DISTRIBUTION BOX LEVEL Levelers

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC Top

TANK LID DEPTH 1'-2.5'

BAFFLES Yes

BAFFLE FILTER No

MANHOLE LOC Front + Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED Yes

DATE ON LID Dry

~~RUMP/SEPTIC TANK LEVEL N/A~~

~~MANUFACTURER~~

~~CAPACITY GAL~~

~~SEAM LOC~~

~~TANK LID DEPTH~~

~~BAFFLES~~

~~BAFFLE FILTER~~

~~MANHOLE LOC~~

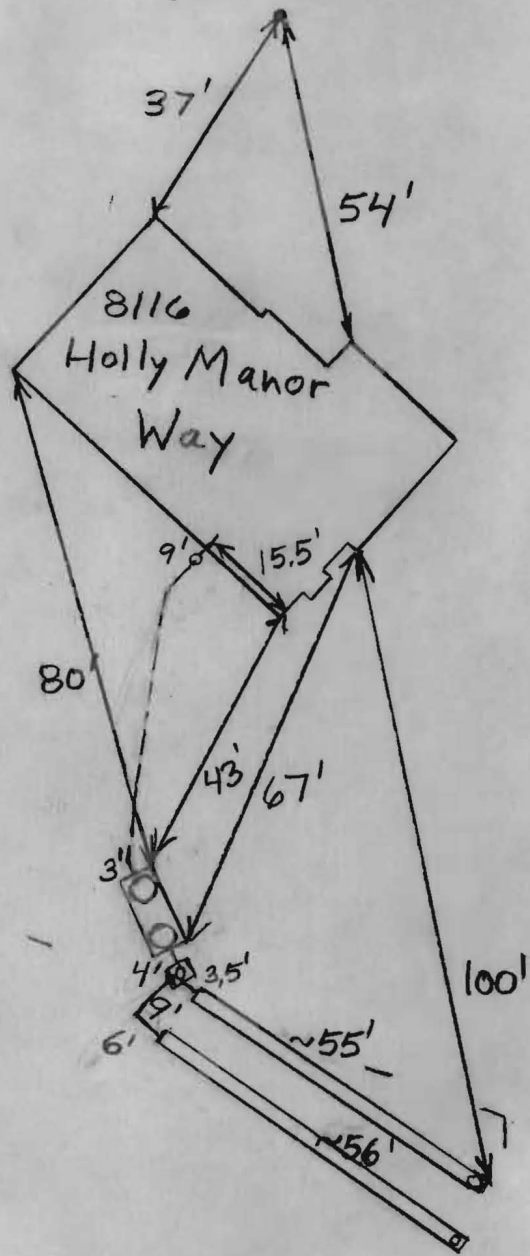
~~6" PORT LOC~~

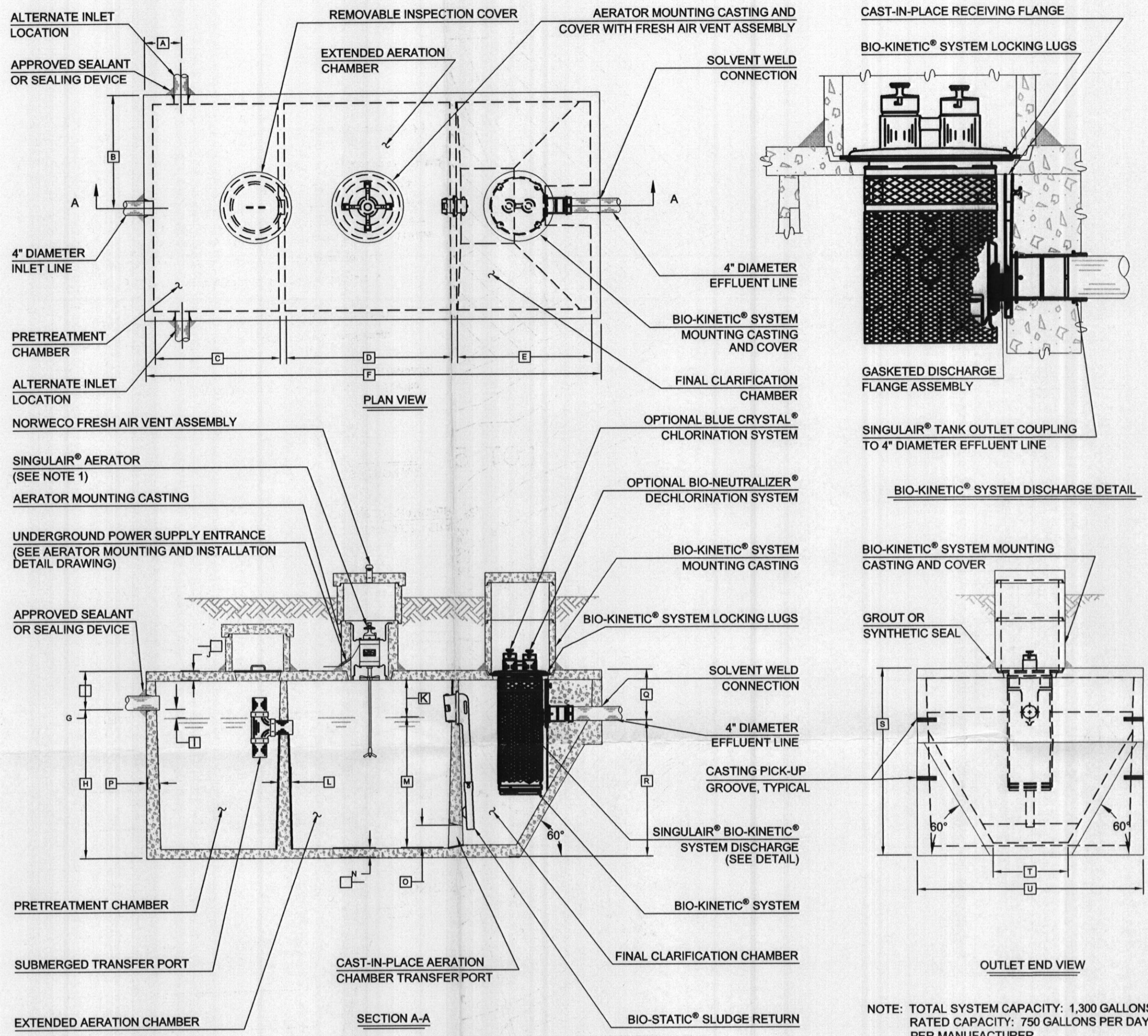
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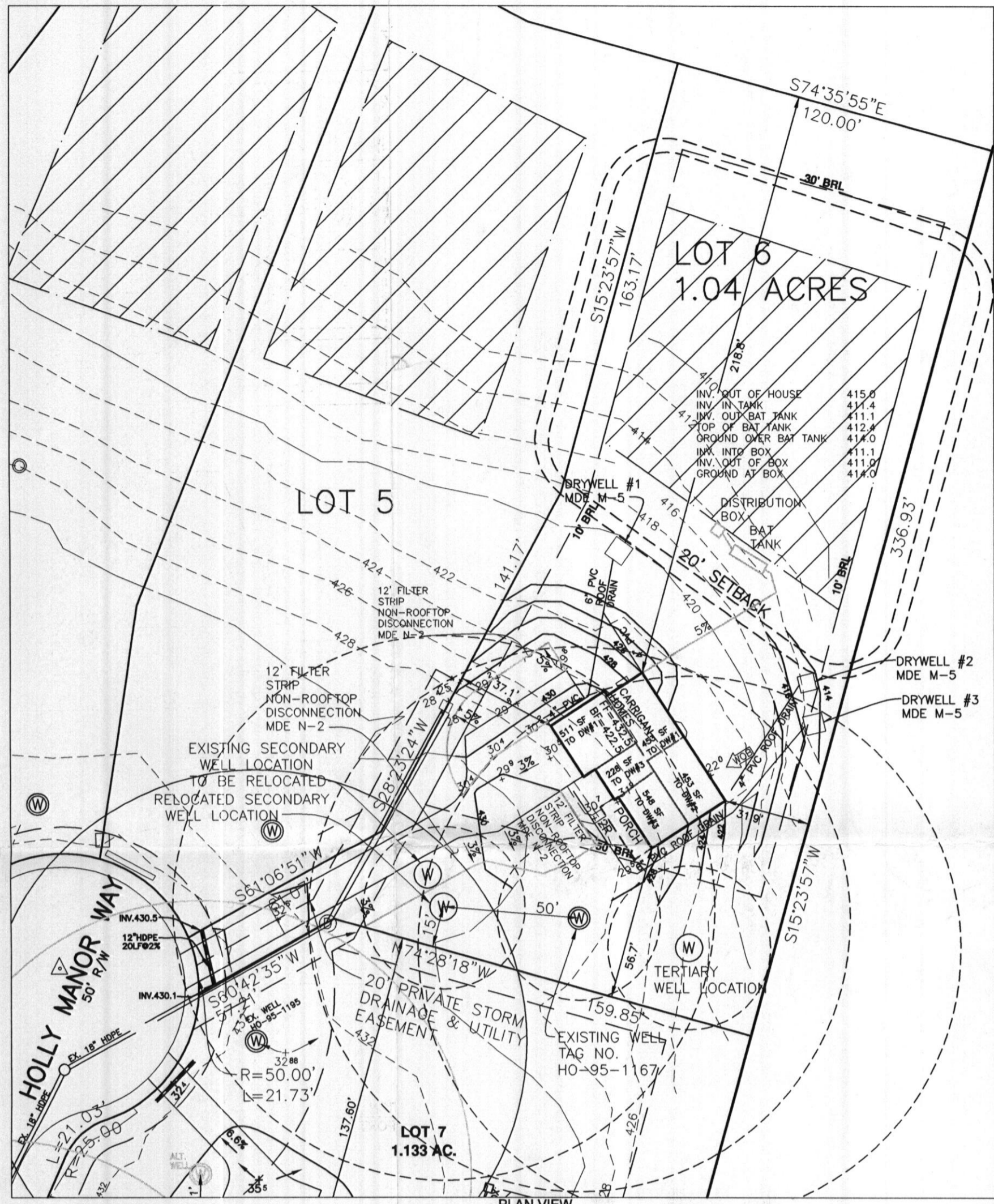
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HO-95-1167





NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
 RATED CAPACITY: 750 GALLONS PER DAY
 PER MANUFACTURER.



Required BAT Site Plan 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 depth of the BAT shall be per the manufacturer's specification.
- The blower may not be located further from the tank than 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 must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
- The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

GENERAL NOTES:

- SINGULAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL, LICENSED SINGULAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

SEE MANUFACTURER SPECIFICATIONS FOR DETAILS. WWW.NORWECO.COM

CRITICAL DIMENSIONS			
A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

U.S. AND FOREIGN PATENTS PENDING	norweco	REVISED: 3-26-07	REVISED: B
© MMVII	LOW-PROFILE SINGULAIR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM MODEL TNTLP-600 GPD	APPROVED: JMM	DATE: 10-16-06
			SCALE: NTS
			PC-5-7081

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 BE@BEI-CIVLENGINEERING.COM

OWNER/BUILDER:
 CARRIGAN HOMES, INC.
 9812 CAITLINS COURT
 ELLICOTT CITY, MD 21042
 410-465-7755 OFFICE
 410-465-5608 FAX

HOLLY HOUSE MEADOWS
 PHASE 2, LOT 6
 8116 HOLLY MANOR WAY

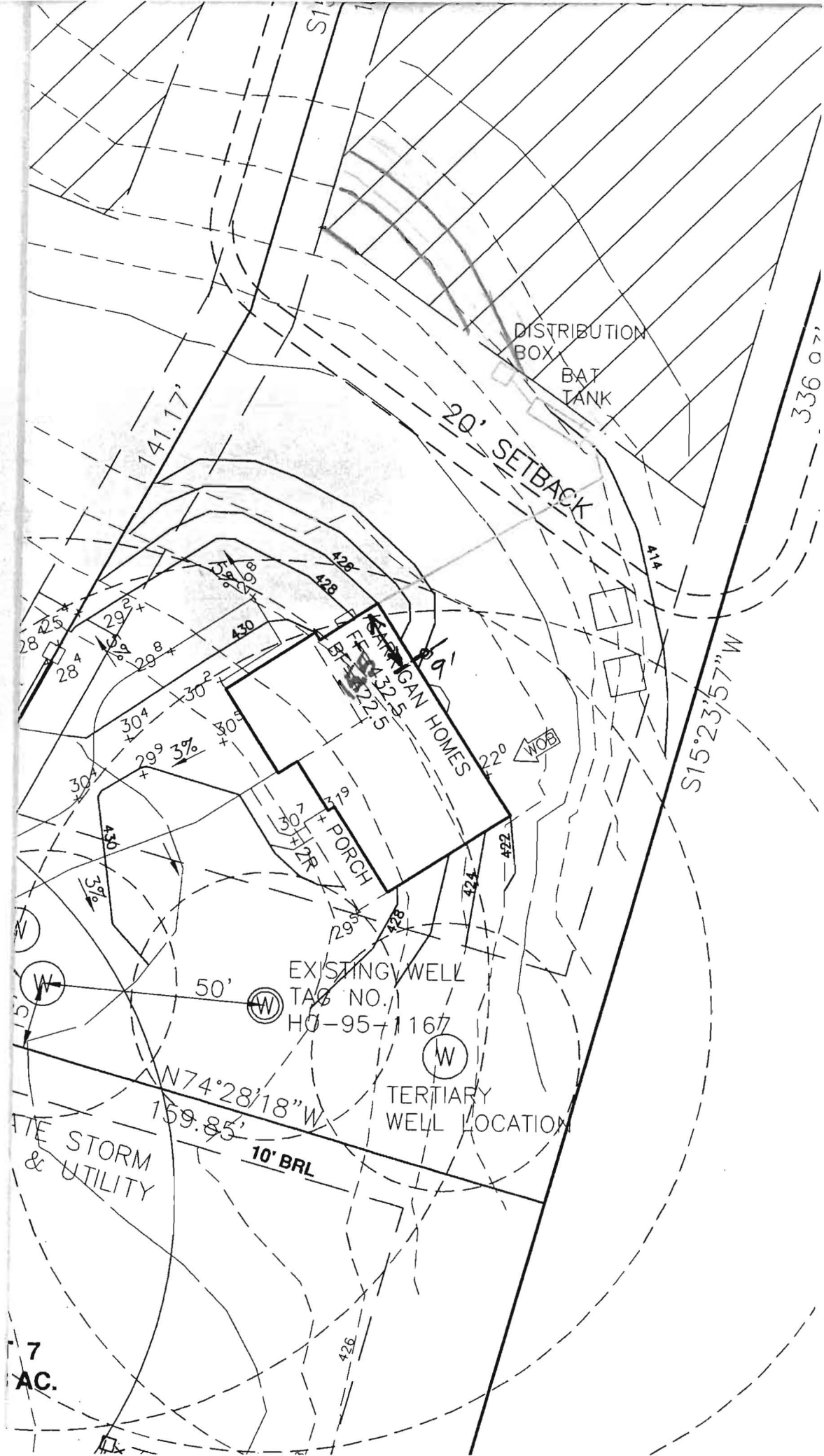
LOCATION: TAX MAP: 45, GRID: 6, P/O PARCEL: 24
 ZONED: RR-DEO
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX IDENTIFICATION NUMBER: 01-172417

TITLE: SITE PLAN FOR BAT INSTALLATION

HOUSE TYPE: CARRIGAN HOMES

DATE: AUGUST, 2013 PROJECT NO. 2579

DESIGN: JMC DRAFT: JMC SCALE: NA DRAWING 1 OF 1



DISTRIBUTION BOX
BAT TANK

20' SETBACK

STRANIGAN HOMES
FR
BR

EXISTING WELL
TAG NO.
HO-95-1167

TERTIARY
WELL LOCATION

7
AC.

141.17'

S15°23'57" W

N74°28'18" W
159.85'

10' BRL

336.07'

S15°

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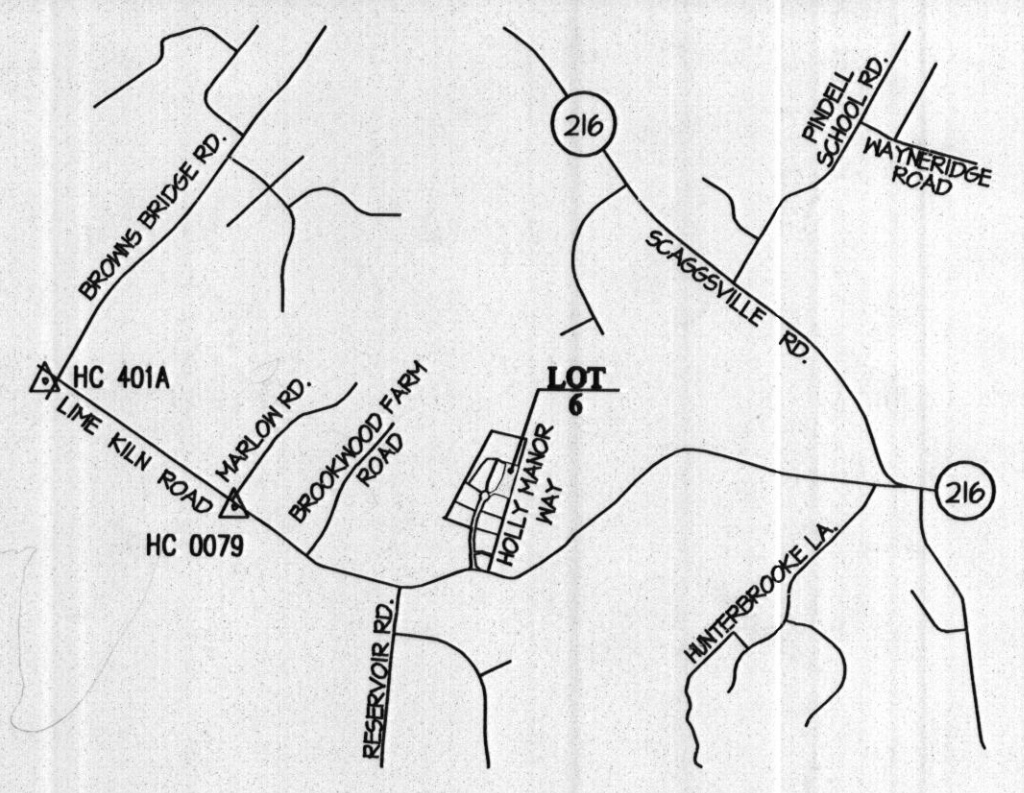
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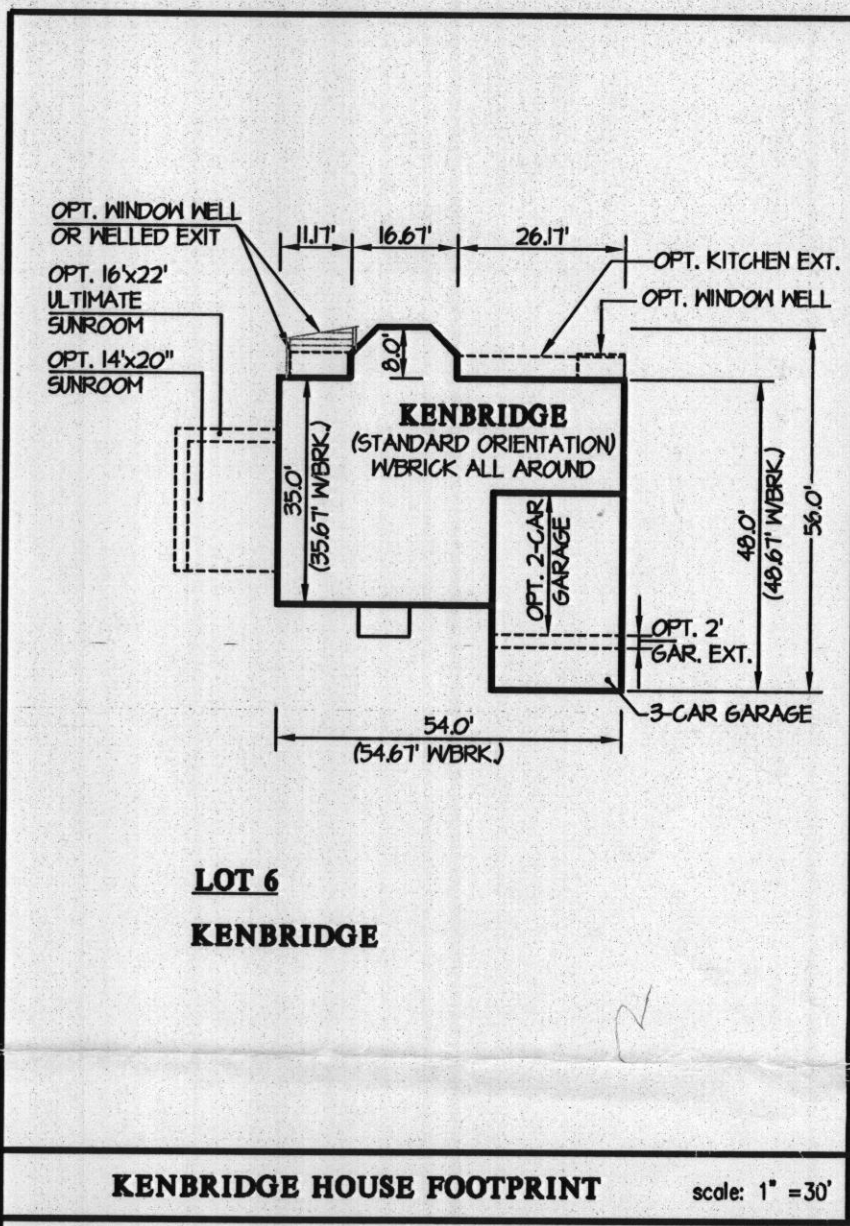
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VICINITY MAP
SCALE: 1" = 2000'

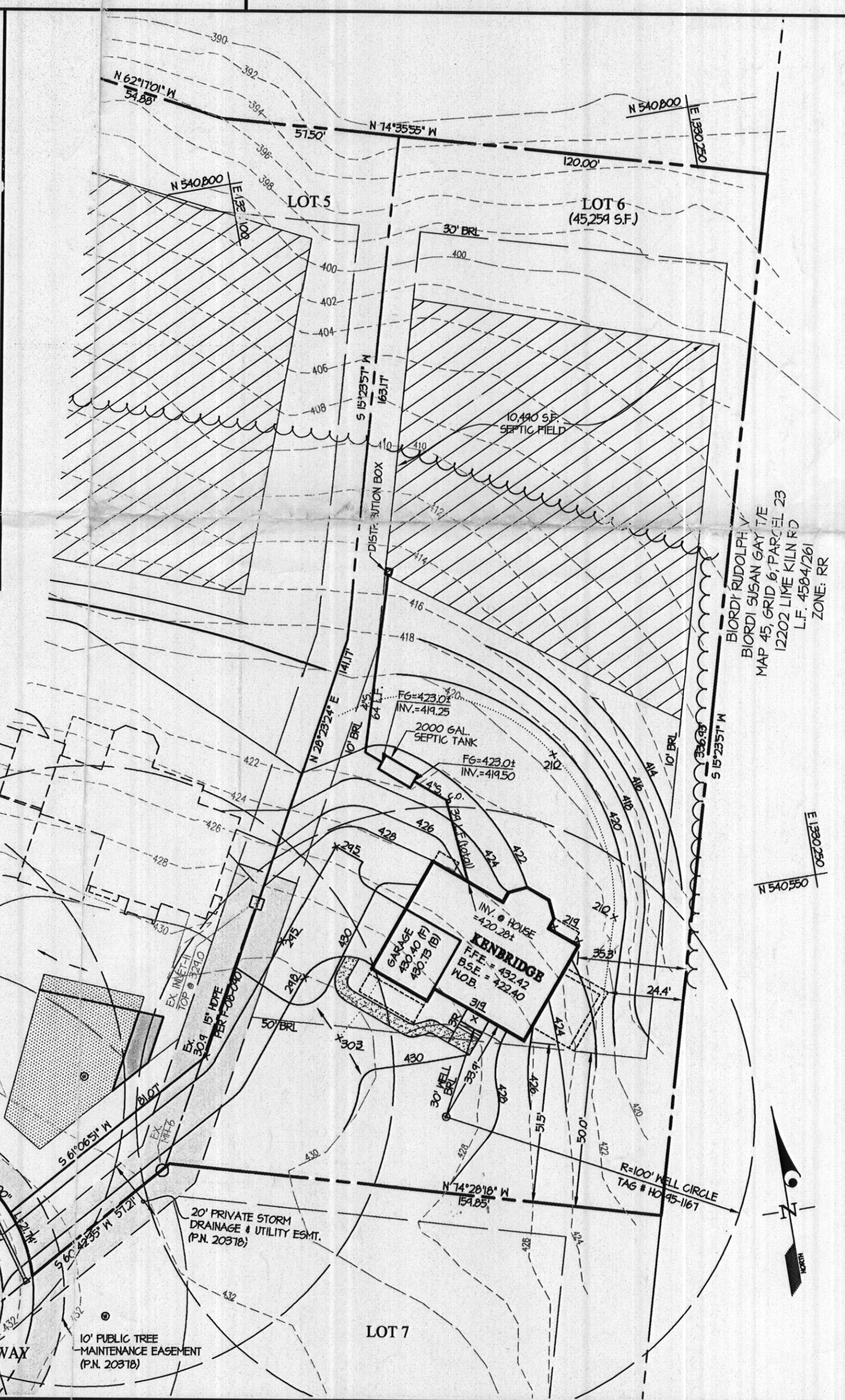
BENCHMARKS

401A: NORTHING: 541,125.7452 ft. EASTING: 1325,316.814 ft.
0079: NORTHING: 540,070.9966 ft. EASTING: 1321,102.1611 ft.



NOTES:

1. THE LOT SHOWN IS 45,254 S.F. AND IT IS RECORDED UNDER PLAT No. 20377-20378 AMONG THE LAND RECORDED OF HOWARD COUNTY, MARYLAND.
2. EXISTING TOPOGRAPHY IS FROM F-08-040. CALL G.L.W. IF FIELD CONDITIONS ARE SUBSTANTIALLY DIFFERENT.
3. THIS LOT IS SERVED BY A PRIVATE WELL AND PRIVATE SEPTIC FIELD PER F-08-040.
4. THE EXISTING WELL SHOWN ON THIS PLAN (IDENTIFIED WITH THE WELL TAG NUMBER HO-45-1167) HAS BEEN FIELD LOCATED BY G.L.W. (PROFESSIONAL LAND SURVEYORS) AND IS ACCURATELY SHOWN ON THIS PLAN.



LEGEND

600	EXISTING CONTOUR
600	PROPOSED CONTOUR
(Wavy line symbol)	TREE LINE

PLOT (house siting) PLAN

HOLLY HOUSE MEADOWS
LOT 6 (8116 HOLLY MANOR WAY)
PLAT Nos. 20377-20378

SCALE	ZONING	G. L. W. FILE No.
1" = 30'	RC-DEO	12058
DATE	TAX MAP - GRID	SHEET
NOV. 2012	45 - 6	1 OF 1