

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: 11/14/13 **ONSITE SEWAGE DISPOSAL SYSTEM** P 545189

INSTALLATION APPROVAL DATE: 4/2/14 **PERMIT** A 523064
CONSTRUCTION

PROPERTY ADDRESS: 11120 Dorsch Farm Road

SUBDIVISION: Carroll- Ziegler Property LOT: 7 TAX ID: 03-322173

CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster MD, 21157 PHONE: 410-596-3618

PROPERTY OWNER: Carrigan Homes EMAIL: _____

OWNER ADDRESS: 9812 Caitlins Court, Ellicott City, MD 21042 PHONE: 410-977-8927

BAT UNIT MODEL: HOOT BNR 600 BAT UNIT SIZE: 600GPD

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: 103.33 <u>130</u> <i>Kmw</i>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</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 BAT unit per layout inspection. Set distribution box per layout inspection. Install 103.33 feet of trench on contour. <i>2 x 65'</i>	

ISSUED BY: Dana Bernard ISSUE DATE: _____ EXPIRATION DATE: 11/14/14

- 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

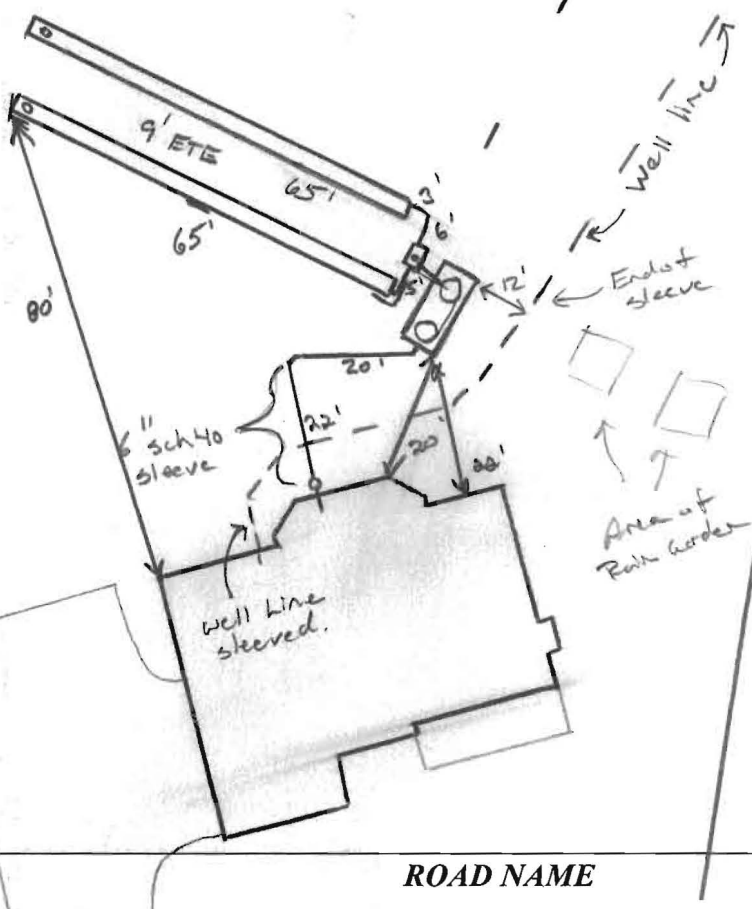
HO-95-1738

To well

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		130'
ABSORPTION AREA		390'± SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		90° bend
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Hoot
CAPACITY	600 BNR GAL
SEAM LOC	Top
TANK LID DEPTH	2'
BAFFLES	Yes (Front)
BAFFLE FILTER	-
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	-
SLOTTED	Yes
DATE ON LID	N/A

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	



ROAD NAME

PRE-CONSTRUCTION:

2/11/14 sewer moved 20' up hill to get away from front footer. Set Hoot tank next to top part of SRA 20' from house. set D box @ top high corner of SRA run 7x65' trench across top part of SRA. Elevation is 2" diff throughout from stake to stake. call for org. Termination of well line may cross sewer. Needs to be 12" above sewer (on 8' deep) double sleeve.

INSTALLATION: 2/12/14 very cold conditions. Top 18" or so frozen. Talk of placement on well line discussed. Contractor digging tank hole. Starting installing SHC. Stopped contractor, shot elevations as exposed, should have enough depth clearance for well line to cross sewer line if they extend 20' of sch 40' sleeve straight out from house then angle towards tank. left decision up to contractor to discuss w/ builder. (YW) 2/18/14 Trenches complete. D box set. Need to place baffle inside D box. SHC just about installed. Need to run F.M. to D box and perform successful start-up of BAT. (KW) 2/24/14 F.M. installed to D box. started well line digging. 4/2/14 Start-up letter received from manufacturer.

FINAL INSPECTOR K. Wally DATE OF APPROVAL 4/2/14
 Was not aware of start-up. Contractor to be notified. (KW)



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 11120 Dorsch Farm Rd.
Clarksville, MD. 21042

Date of Final Inspection: 4/1/14

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

H. Michael Dager

Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

FAX: 410-796-1433

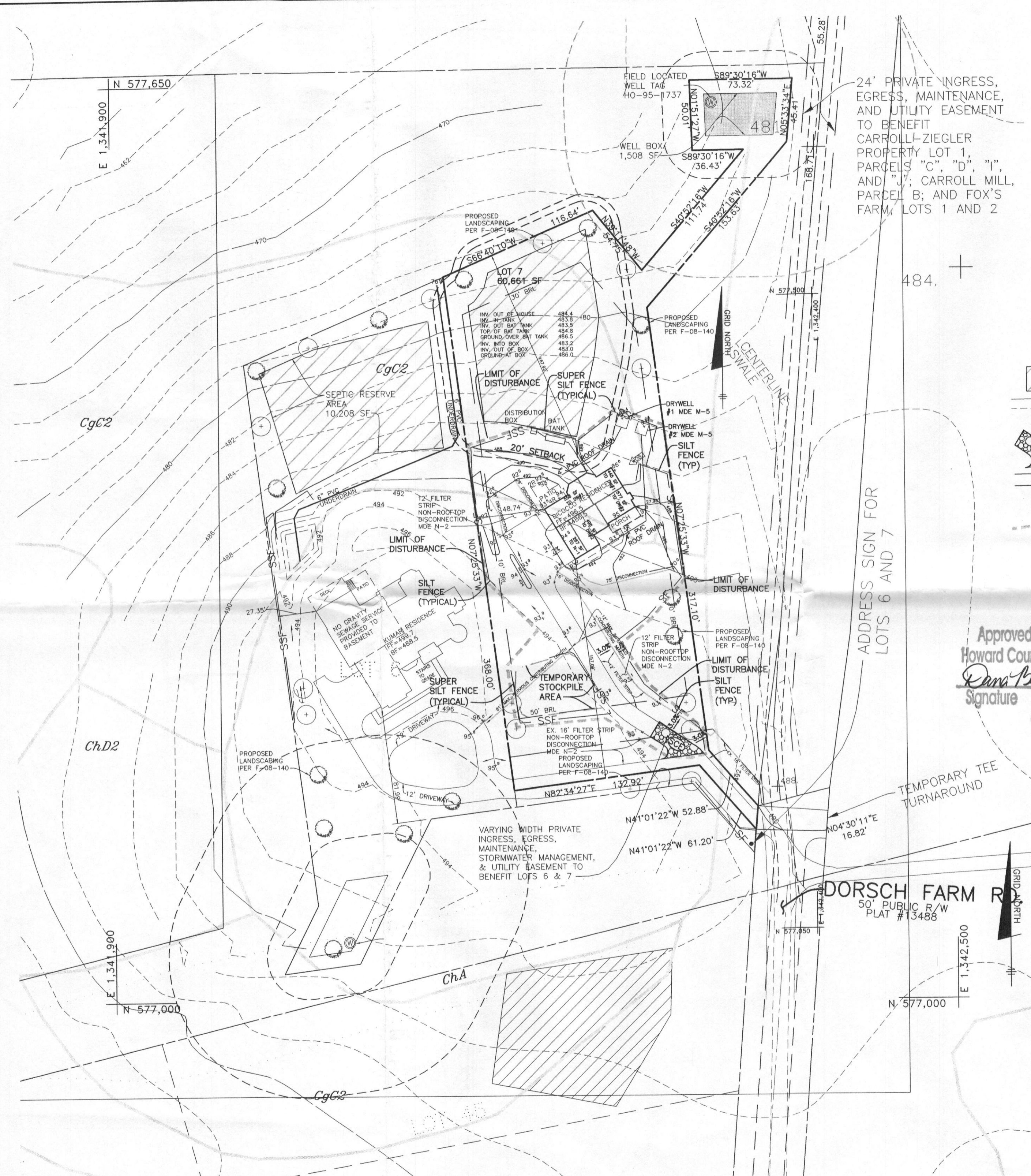
WBE

WPCA Certified Plant

mayerbro@comcast.net

www.mayerbrosprecast.com

Concrete Ejecta Catchers, Concrete Safety Catches, Concrete and Ducts, Sewer Tanks, Holding Tanks, Storm Water Structures, Hydroceptors, Storm Sewers, Water Meter Vaults, Stormwater Inlets, Yards, Topsoil, Catch Basins, Catch Basins, Permeable Basement Entries, Insulated Walkways, Walls, Concrete Precast Products



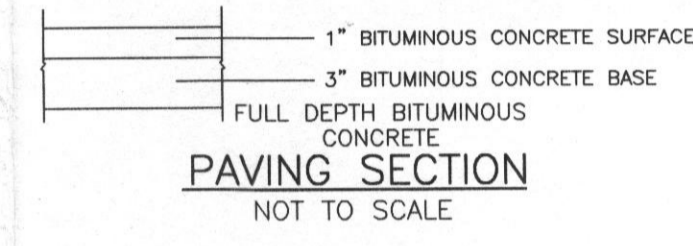
24' PRIVATE INGRESS, EGRESS, MAINTENANCE, AND UTILITY EASEMENT TO BENEFIT CARROLL-ZIEGLER PROPERTY LOT 1, PARCELS "C", "D", "I", AND "J"; CARROLL MILL, PARCEL B; AND FOX'S FARM, LOTS 1 AND 2

NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR CARROLL-ZIEGLER PROPERTY, PLAT No. 21057. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND HAS BEEN FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT APRIL, 2006
5. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS OR ENVIRONMENTAL CONCEPT PLAN.
9. SEPTIC TANK FOR THIS LOT TO BE 2,000 GALLONS.
10. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-1737, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
11. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
12. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
13. STORMWATER MANAGEMENT FOR THE HOUSE AND THE TURNAROUND AREA OF THE DRIVEWAY IS PROVIDED BY MICRO-BICRETENTION FACILITIES. SOME OF THE DRIVEWAY IS TREATED BY FILTER STRIPS.

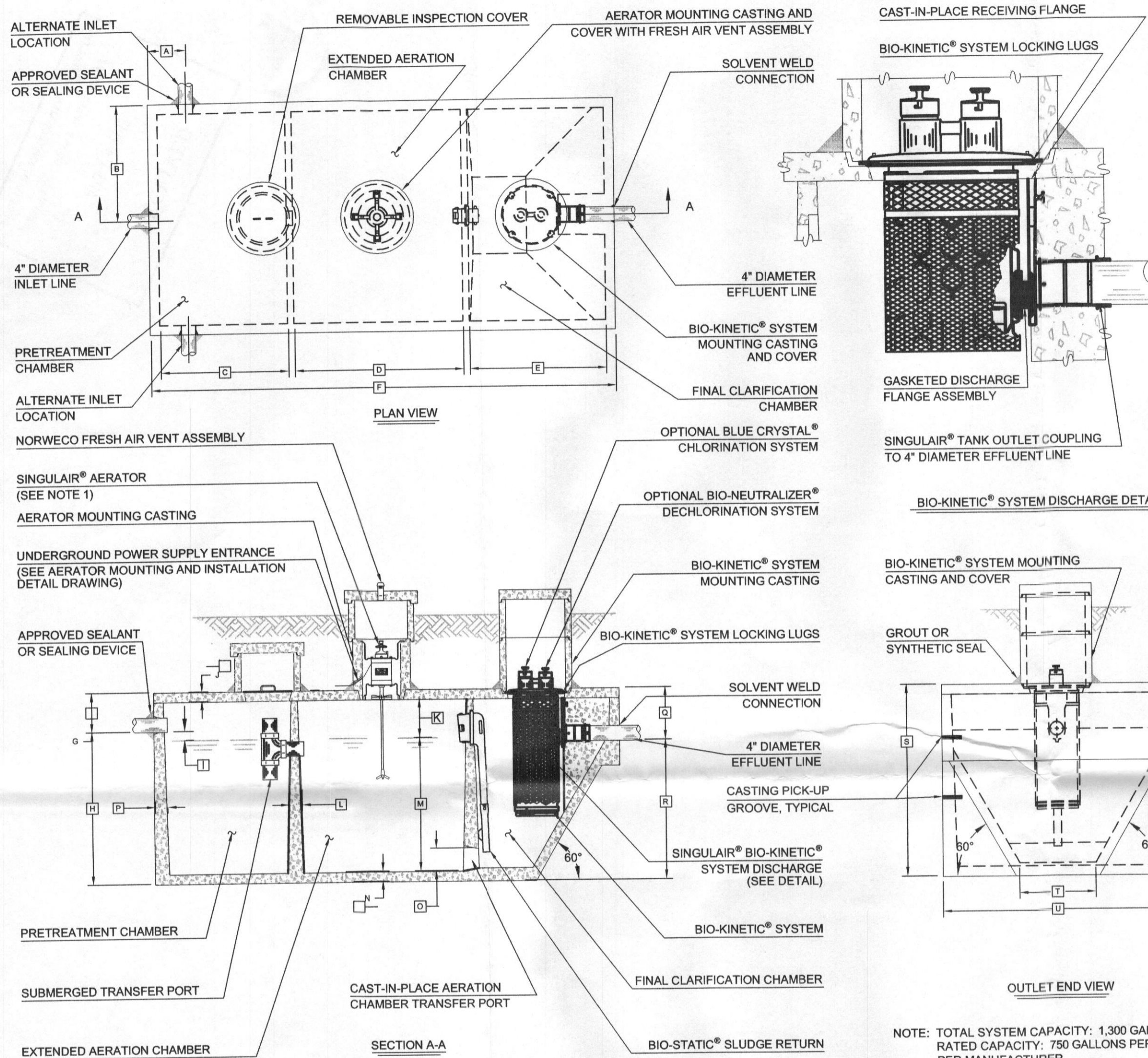
LEGEND

- EXISTING SEPTIC EASEMENT
- 480 EXISTING CONTOURS
- FIELD LOCATED WELL
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- SUPER SILT FENCE
- EXISTING TREELINE
- CgC2 SOILS
- LIMIT OF DISTURBANCE



Approved Septic System Plan
 Howard County Health Department
Dana Buroud 8-21-13
 Signature *P-13002945*

BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 ▲ FAX: 410-465-6644 BEI@BEI-CIVILENGINEERING.COM	
OWNER/BUILDER:	PROJECT:
CARRIGAN HOMES 9812 CAITLINS COURT ELLICOTT CITY, MARYLAND 21042 410-465-7755	CARROLL-ZIEGLER PROPERTY LOT 7
DESIGN: JMC	DRAFT: JMC
DATE: JUNE, 2013	PROJECT NO. 2571
SCALE: 1" = 50'	DRAWING 1 OF 2
LOCATION: MANOR LANE TAX MAP: 23, GRID: 10 P/O PARCEL: 148 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE: BUILDING PERMIT PLAN HOUSE TYPE: DICICCO RESIDENCE	



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

SEE MANUFACTURES 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	DATE: 3-26-07	REVISED: B
	LOW-PROFILE SINGULAIR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM MODEL TNTLP-600 GPD	DESIGNED BY: JMM	CHECKED BY: NTS
		DATE: 10-16-06	
		PROJECT NO: PC-5-7091	

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

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
 BEI@BEI-CIVILENGINEERING.COM

OWNER/BUILDER: CARRIGAN HOMES 9812 CAITLINS COURT ELLICOTT CITY, MARYLAND 21042 410-465-7755		PROJECT: CARROLL-ZIEGLER PROPERTY LOT 7	
LOCATION: MANOR LANE TAX MAP: 23, GRID: 10 P/O PARCEL: 148 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND		TITLE: BUILDING PERMIT PLAN	
HOUSE TYPE: DICICCO RESIDENCE		DATE: AUGUST, 2013	
DESIGN: JMC	DRAFT: JMC	PROJECT NO. 2571	DRAWING 2 OF 2