

LAYOUT \_\_\_\_\_ INSP 4 \_\_\_\_\_  
INSP 2 \_\_\_\_\_ INSP 5 \_\_\_\_\_  
INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_  
APPROVAL DATE: 5-10-11

# PERMIT

P 534509  
A 516084

Tax ID # 03-345289  
**ON-SITE SEWAGE DISPOSAL SYSTEM**  
**HOWARD COUNTY HEALTH DEPARTMENT**  
**BUREAU OF ENVIRONMENTAL HEALTH**

Brattfields Equipment IS PERMITTED TO INSTALL  ALTER   
ADDRESS: Po Box 519 Annapolis Junction 20701 PHONE NUMBER: 301 854 6172  
SUBDIVISION: Riverwood LOT NUMBER: 23  
ADDRESS: 4884 Castlebridge Road PROPERTY OWNER: Winchester Homes  
SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED   
PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED   
NUMBER OF BEDROOMS: 4 APPLICATION RATE: 0.8  
SQUARE FOOTAGE OF HOUSE: Unkwn  
LINEAR FEET OF TRENCH REQUIRED: 280 214'

TRENCHES:	Trenches to be 3.0 feet wide. Inlet 5.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at <u>6.0</u> feet below original grade with 2.0 feet of stone below distribution pipe. <u>5'</u>
LOCATION:	Set septic tank per layout inspection. Set distribution box per layout inspection. Distribution box should be installed at the center of the easement at the highest point closest to the house. Install 280 feet of trench on contour per layout inspection.
NOTES:	<b>Do not</b> order the septic tank until after layout inspection and Sanitarian approval. Stake easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet.

PLANS APPROVED: Dana Bernard DATE: 1/26/11

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

**NEITHER THE HOWARD COUNTY COUNCIL OR 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 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE

9584 EC

See As-Built Drawing  
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	5'	7'
NUMBER OF TRENCHES 4		
TOTAL LENGTH 256'		
ABSORPTION AREA 512		
DISTRIBUTION BOX LEVEL Yes		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT Yes		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2'
BAFFLES	Yes
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	—
SLOTTED	Yes
DATE ON LID	3/14/11
<b>PUMP/SEPTIC TANK LEVEL</b>	Yes
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	21"
BAFFLES	Front
BAFFLE FILTER	—
MANHOLE LOC	Rear
6" PORT LOC	none
WATERTIGHT TEST	—
SLOTTED	no
DATE ON LID	3/11/11

PRE-CONSTRUCTION:

4/15/2011 Set the distribution box at the top center of the easement and install two 65' trenches on contour in both directions. Install the tanks near the lower right easement stake. (BB)

INSTALLATION:

4/18/11 SHC made. Both tanks set @ low corner of SRA. 2" F.M. run up to Dbox. Top trench started. Told contractor to bust out baffle in Dbox and install elbow. OK do continue (BB)

4/19/2011 System finished except for pump and alarm tests. Septic tanks not installed as per layout. They were supposed to be centered around the right bottom easement stake. (BB)

5/10/11 P/A OK.

FINAL INSPECTOR

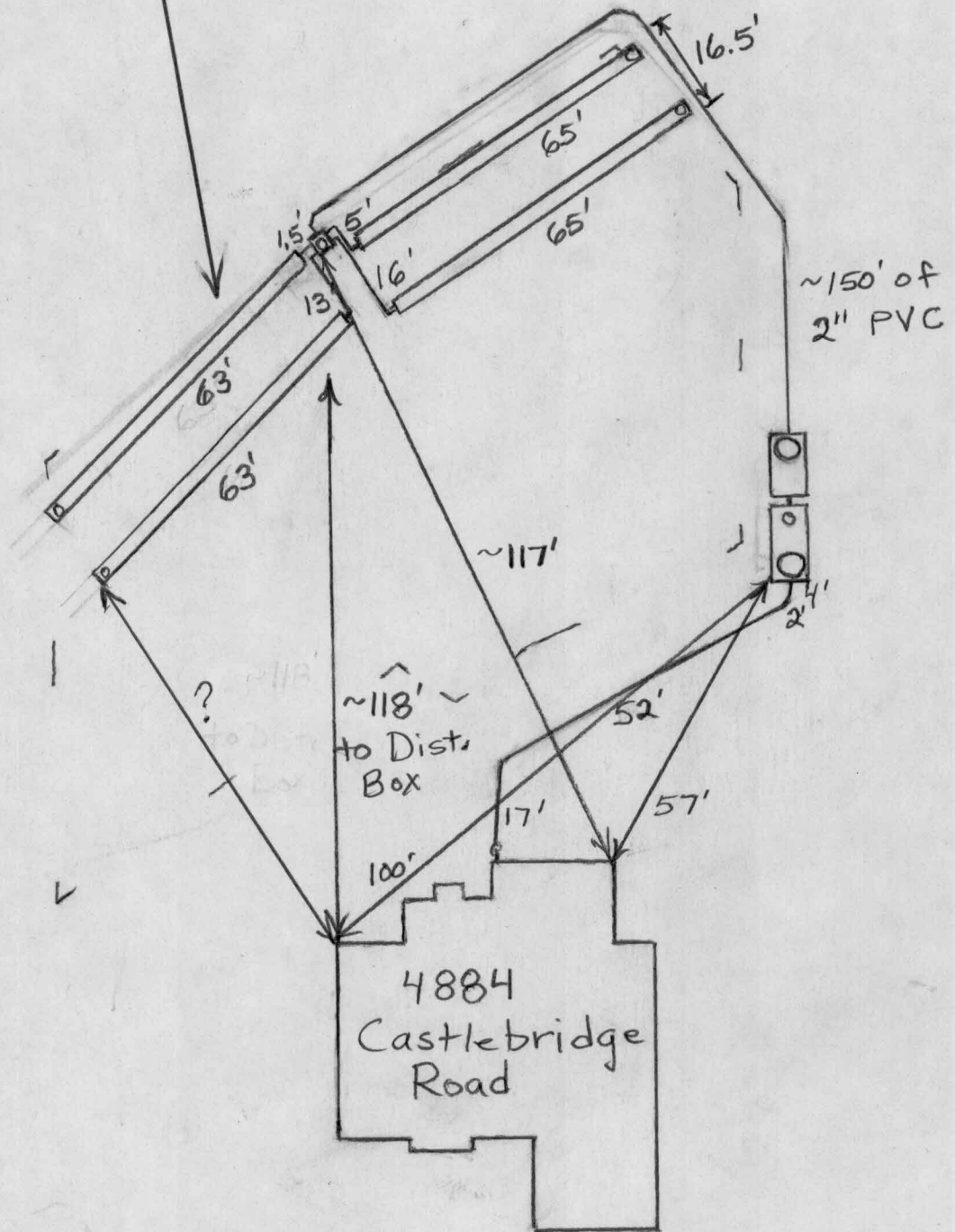
K. Wolf

DATE OF APPROVAL

5-10-11

HO-95-4055

~ 255'  
to House Corner



SEPTIC SPECIFICATIONS WORKSHEET- 4884 Castlebridge

Subdivision Riverwood

A 516084

Street Name 4884 Castlebridge

Lot Number 23

Average Percolation Rate (min. / in.) 22 min. /inch      Application Rate (GPD/sq. ft.) 0.6

Number of Bedrooms 4      Design Flow (BRx150) 4 x 150 = 600

Square Footage (of House) Unknown      Septic Tank Capacity (gal.) 2000

Sidewall Credit / % Reduction 1 foot / 0.83%      **Total Length of Trench (ft.) 276.66 Feet ≈ 280'**

**\*All Septic/Pump tanks must be top seamed unless otherwise approved by this agency.**

**\*All Septic tanks must be compartmented unless otherwise approved by this agency.**

Baffle Filter Required?      Yes  **No**

TRENCH DIMENSIONS: Trench to 3 feet wide. Inlet at 5 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 6 feet below original grade.

2 feet of stone below the distribution pipe.  $4 \frac{x 150}{0.6} = \frac{1000}{3} = 333.3 \times 0.83 = 276.66 \text{ Feet} \approx 280'$   
(Total Length of Trench)

PUMP SYSTEM PROPOSED?  **YES**  NO

Pump system details: 1500 gallon pump chamber.

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test required prior to Health Department approval of pumped septic system.

LOCATION: 1. Set septic tank per layout inspection

2. Set pump tank per layout inspection.

3. Set distribution box per layout inspection.

Note: Distribution box should be installed at the center of the easement at the highest point closest to the house.

4. Install 280 feet of trench on contour per layout inspection.

ADDITIONAL NOTES:

1. Stake septic easement corners and addition corners for layout inspection.

2. Call for layout inspection.

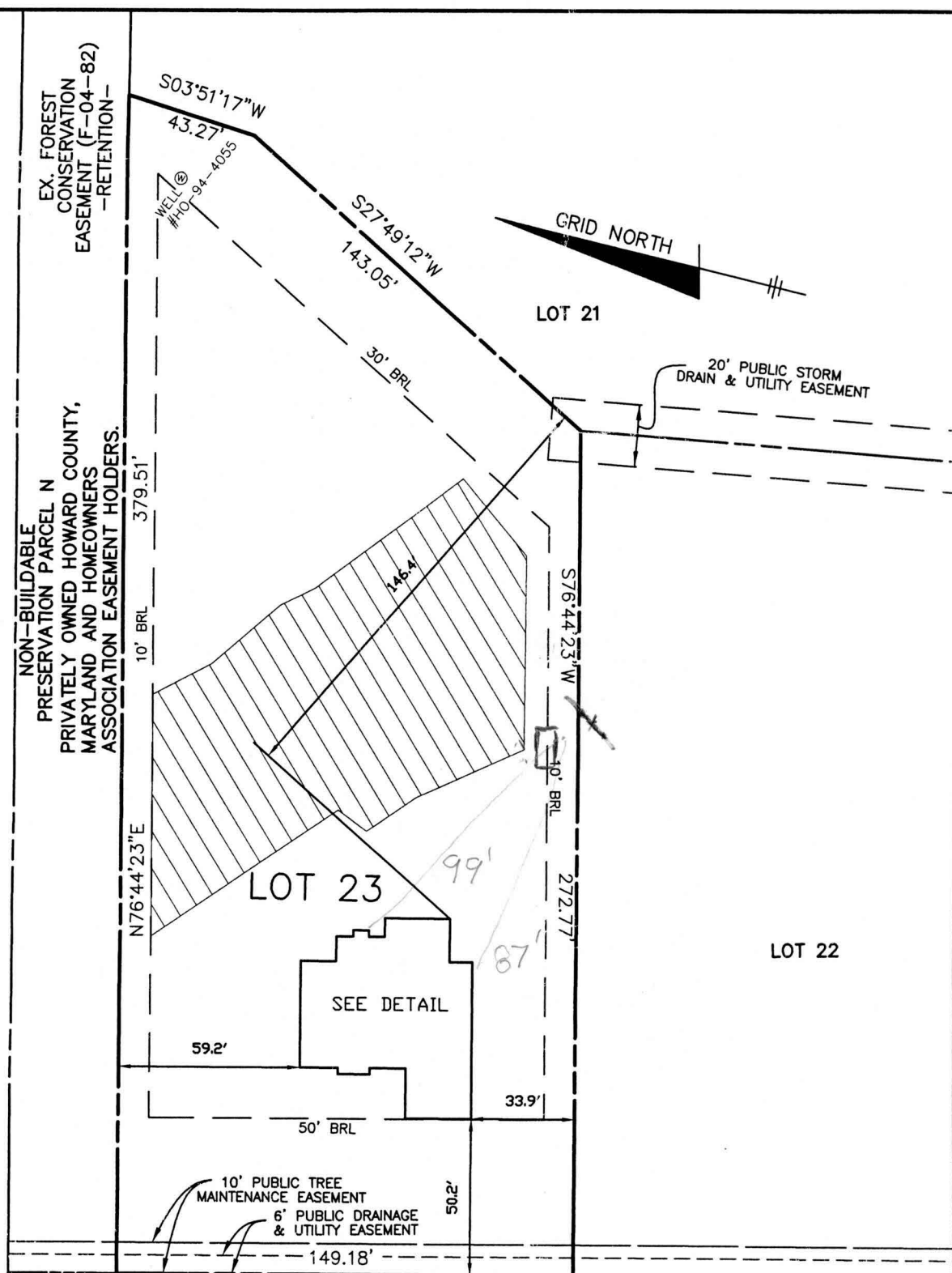
3. Mark utilities.

4. Gravel tickets must be available for Environmental Sanitarians.

5. Stones used must be approved by Howard County Health Department. Subject to approval.

Reviewed by: Dana Bernard

Date: 01/26/2011



CASTLEBRIDGE ROAD  
PUBLIC ACCESS STREET - 50' R/W

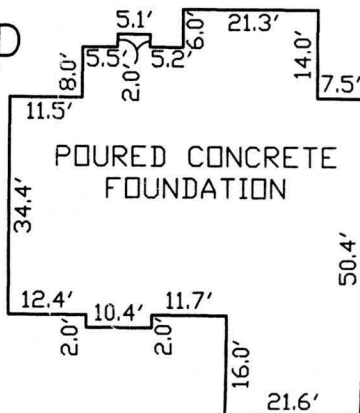
TOP OF FOUNDATION WALL ELEVATION = 409.5'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 03/09/11.

*Donald A. Mason*  
DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MD REG. No. 21320  
FOR BENCHMARK ENGINEERING, INC.  
MD REG. No. 351  
FEMA FIRM No. 240044 0027 C  
ZONE: X  
DATED: 04/02/97

*Wall check  
OK ITS  
3-17-11*



FOUNDATION DETAIL  
SCALE: 1" = 30'

**WALL CHECK  
RIVERWOOD  
PHASE I  
PLAT No. 18038  
LOT No. 23**

4884 CASTLEBRIDGE ROAD

3RD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' DATE: 03/09/11

BENCHMARK  
ENGINEERS & LAND SURVEYORS & PLANNERS  
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418  
ELLCOTT CITY, MARYLAND 21043  
phone: 410-465-6105 ▲ fax: 410-465-6644  
www.bei-civilengineering.com

FIELD OBS. BY DH&AIS  
COMP. BY EWF  
DRAWN BY EWF