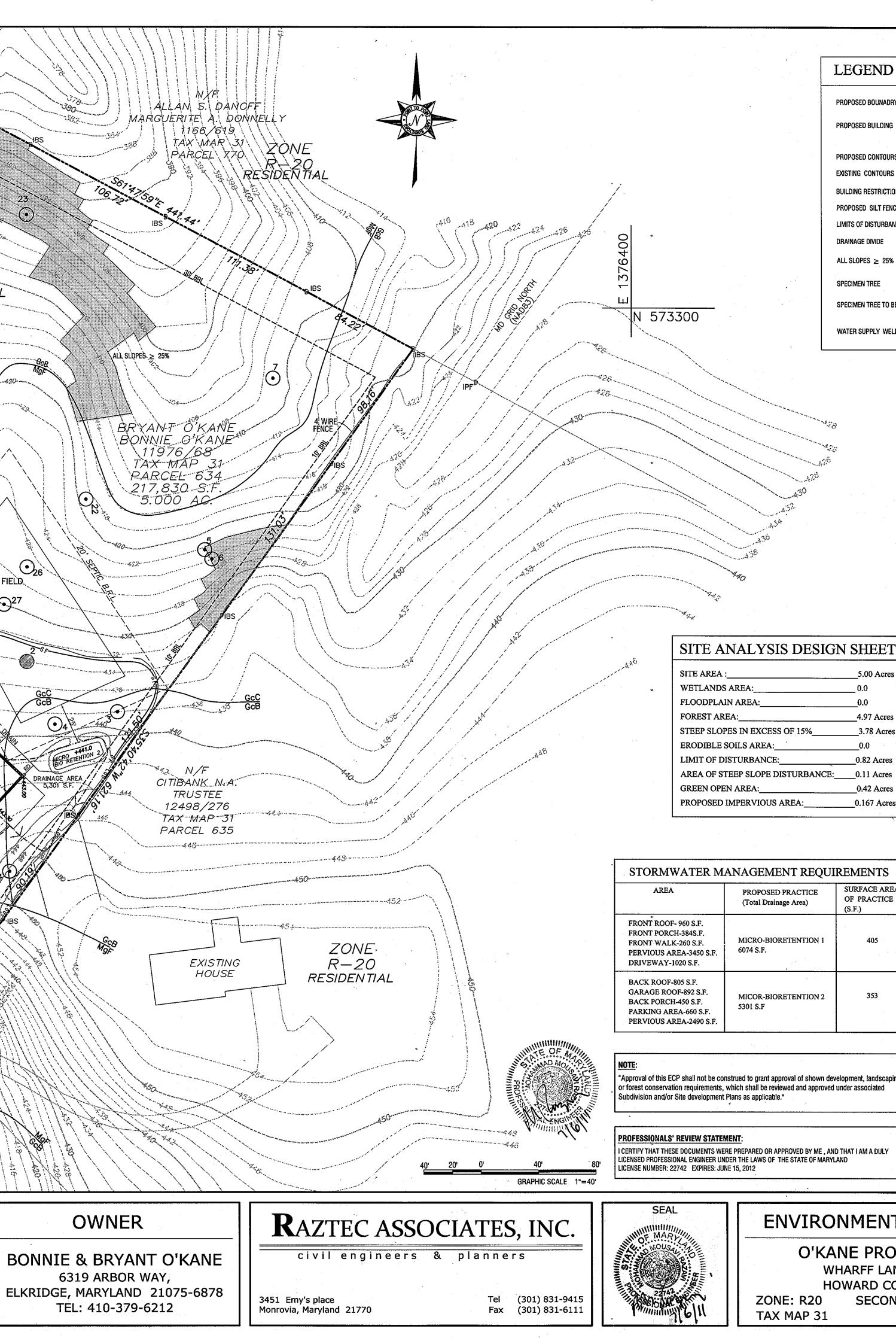
MYCHAEL D. CARROLL STEPHANY/E. CARROLL 565/722 TAX/MAP/31 (PARCEL ,644 EXIST. HOUSE ZONE R-20 \odot RESIDENTIAL All Slopes 🚊 25% N/FŹŎŊĔ JOHN CLAPSADDLE 37 Ŗ́—2,0-JANET CLARK ŔĔSIŲĖNTIAL 6238/55 TAX MAP 31 N 573300 PARCEL 594 (\mathbf{e}) EXIST. HOUSE \bigcirc ZONE \bigcirc \bigcirc^{25} R-20 RESIDENTIAL FRÁNK W, STÉGMAN /11.09//\$6/ TAX MAP/ 31 (O¹⁷ PARCÉL 591 **()**16 \bigcirc_{26} SEPTIC FIELD \bigcirc^2 , ´ÁLL SLÓPES ≥ 25%∕ (\cdot) (•*)*/ $\widehat{}$ 370---5600 137 N 572800 MAN DRIVEWAY DRIVEWA) EASEMEN 696736 TOP GRATE=391.8 REV# DATE **APPROVED: DEPARTMENT OF PLANNING AND ZONING** 7/14/11 Date - ZIZII Date



LEGEND		
PROPOSED BOUNADRY	Doncession	Di BO
PROPOSED BUILDING	R. 5	
PROPOSED CONTOURS480	orthington,	SITE
EXISTING CONTOURS		▲
BUILDING RESTRICTION LINE		Š 👗 00
PROPOSED SILT FENCE S F		
LIMITS OF DISTURBANCEL O D	3	**************************************
DRAINAGE DIVIDE		28
ALL SLOPES ≥ 25%	Bonnie	31EC
SPECIMEN TREE	Acres	
SPECIMEN TREE TO BE REMOVED	N Forst Hill	
WATER SUPPLY WELL		1:=2000

DESIGN NARRATIVE:

Natural Resource Protection and Enhancement

This site is entirely wooded, with relatively steep slopes in some parts of the site. The approach in achieving the goals of this project is to disturb a minimum amount of the existing wooded areas. As shown on this plan, approximately 85% of the site will remain undisturbed, therefore maintaining the existing characteristic of the site. The placement of the house and proposed appurtenances, such as the driveway have been proposed in places that are least intrusive to the character of the site. The house itself has been placed in the flatter part of the site, which would result in the least amount of grading, and therefore less disturbance. The driveway is shown to cut through an area that is fairly clear, and mostly populated with brush and smaller trees, and would not require too much clearing.

Maintenance of Natural Flow Patterns;

5.00 Acres

4.97 Acres

_3.78 Acres

_0.82 Acres

_0.42 Acres

0.167 Acres

SURFACE AREA

OF PRACTICE

405

353

(S.F.)

0.0

0.0

0.0

The project has been designed to maintain the natural drainage patterns of the site. The proposed house will be situated very close to the ridge of the site, and the associated grading shows that there will not be change in flow patterns. Furthermore, the placement of the proposed stormwater management practices have been placed to maintain these natural flow patterns. Runoff from impervious areas are naturally directed to the proposed practices.

Reduction of Impervious Areas Through Better Site Design, Alternative Surfaces, Non-Structural Practices;

Since the site is entirely wooded any new development will create new impervious areas. However, we have used a site design that will allow a vast majority of the site to be maintained in its natural state. This has been achieved by strategically placing the house, so that there is minimal disturbance. Furthermore, we have explored the opportunity to meet ESD requirements by using stormwater management credits. However, due to site restrictions, such as steep slopes, it is difficult to satisfy the requirements through credits. Therefore, micro practices have been proposed to meet stormwater management requirements for most impervious surfaces.

Integration of Erosion and Sediment Controls into SWM Strategy;

The stormwater management strategy of the site is to use micro practices, and to naturally direct impervious runoff to these practices. The existing topography of the site, and the approach to site design requires minimal erosion and sediment control measures, and therefore less disturbance. The use of silt fence will adequately handle runoff from disturbed areas.

Implementation of ESD Planning Techniques and Practices To The MEP

The site has been designed to limit the amount of disturbance to the site. The proposed design has an impervious area of 0.167 acres, approximately 3.34%. The actual disturbance is approximately 15%. The proposed driveway is strategically place to limit the disturbance to the site. It should be noted that the placement of the driveway was actually staked in the field and then implemented in the proposed plan. The majority of the existing slope greater than 25% will remain in its existing state without disturbance.

Impervious areas from the front rooftop is directed to proposed micro bio retention practice # 1 located in the front. Impervious areas from the back portion of the rooftop and the park area in front of the garage are directed to micro bio retention practice #2. These facilities are sized in accordance with Chapter 5 of the Maryland Stormwater Management Manual.

In order to preserve the nature of the site, and to limit the amount of disturbance to the site especially in areas of steep slopes, no further practice is proposed for the proposed driveway. Therefore, a waiver to provide any stormwater management practices for the proposed driveway is requested.

LOT/PAR	CEL #		STREET ADDRESS			
634			WHARFF LANE			
	· · · · · · · · · · · · · · · · · · ·					
Subdivision Name	, ,	PERMIT	INFORMATION Section/Area	N CHART	Lot/Parcel No.	
Subdivision Name Plat # or L/F L.11976 F.68	Grid #	PERMIT	Section/Area	Elect District	Lot/Parcel No. Census Tract	634 602800

ENVIRONMENTAL CONCEPT PLAN

O'KANE PROPERTY PARCEL 634 WHARFF LANE, ELLICOTT CITY HOWARD COUNTY, MARYLAND SECOND ELECTION DISTRICT ZONE: R20 TAX MAP 31

1" = 40'	
CHECKED BY:	
MR	
DRAWN BY:	
HP	
E(P-11-057	•

SCALE

APRIL, 2011 SHEET NUMBER

1 of 1

DATE