HOWARD COUNTY FOREST CONSERVATION WORKSHEET

I. BASIC SITE AREA

	ACRES (1/10 acre)
GROSS SITE AREA	2.4717 ACRES
AREA WITHIN 100 YEAR FLOODPLAIN	0.00 ACRES
AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (if applicable)	0.00 ACRES
NET TRACT AREA	2.4717 ACRES
LAND USE CATEGORY (R-RLD, R-RMD, R-S, C/I/O, I) M-1	B-2

II. INFORMATION FOR CALCULATIONS

A.	NET TRACT AREA	2.4717 ACRES
B.	FOREST CONSERVATION THRESHOLD (15% X A)	0.37 ACRES
C.	AFFORESTATION MINIMUM (15% X A)	0.37 ACRES
D.	EXISTING FOREST ON NET TRACT AREA	2.17 ACRES
E.	FOREST AREAS TO BE CLEARED	1.93 ACRES
F.	FOREST AREAS TO BE RETAINED	0.24 ACRES

III. APPLICABILITY OF AFFORESTATION AND REFORESTATION TO SITE

1. Afforestation Only

   If existing forest area are below the Afforestation Threshold (if D is less than C), and no forest clearing is proposed, afforestation requirements apply.

   GO TO SECTION IV

2. Combined Afforestation and Reforestation

   If existing forest areas are below the Afforestation Threshold (if D is less than C), AND clearing of forest areas is proposed, both afforestation and reforestation is required.

   GO TO SECTION IV

3. Reforestation Only

   a) If existing forest areas are at or above the Afforestation Threshold (if D is equal to or greater than C) and no clearing of existing forest resources is proposed, no reforestation is required. STOP. No further calculations are needed.

   b) If existing forest areas are retained at or above the break-even point (if H is equal to or greater than F), STOP. No further calculations are needed and no mitigation is required.

   c) If existing forest areas are at or above the Afforestation Threshold (if D is equal to or greater than C), and clearing of forest areas is proposed, reforestation requirements may apply.

IV. REFORESTATION CALCULATIONS

A.	NET TRACT AREA	2.47 ACRES
B.	REFORESTATION THRESHOLD (15% x A)	0.37 ACRES
D.	EXISTING FOREST ON NET TRACT AREA	2.17 ACRES
E.	FOREST AREA TO BE CLEARED	1.93 ACRES
F.	FOREST AREAS TO BE RETAINED	0.24 ACRES
G.	FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD (D-F, if F equals or is greater than B, Alternate 2) (D-B, if F is less than B, Alternate 2)	1.80 ACRES
H.	FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD (B-F, if applicable)	0.13 ACRES
I.	FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD (F-B, Retention Credit, if applicable)	0.000 ACRES

Select the alternative that applies:

1. Clearing above the threshold only

   If forest areas to be retained equal or are greater than the reforestation threshold (if F equals or is greater than B), the following calculations apply:

REFORESTATION FOR CLEARING ABOVE THRESHOLD G x 1/4	0.000 ACRES
CREDIT FOR FOREST AREAS RETAINED ABOVE THRESHOLD I = Retention Credit	0.000 ACRES
TOTAL REFORESTATION REQUIRED (G x 1/4) - I	0.000 ACRES

2. Clearing below the threshold

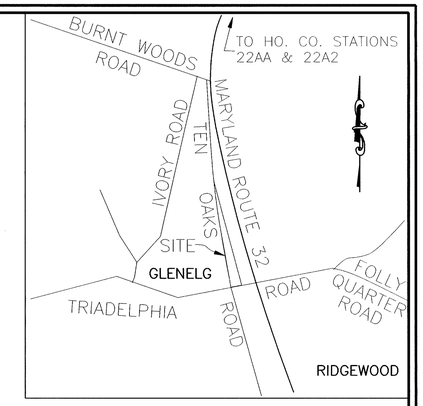
   If forest areas to be retained are less than the reforestation threshold (if F less than B), the following calculations apply:

REFORESTATION FOR CLEARING ABOVE THRESHOLD G x 1/4	0.45 ACRES
REFORESTATION FOR CLEARING BELOW THRESHOLD H x 2	0.26 ACRES
TOTAL REFORESTATION REQUIRED (G x 1/4) + (H x 2)	0.71 ACRES
REFORESTATION PROVIDED:	0.00 ACRES

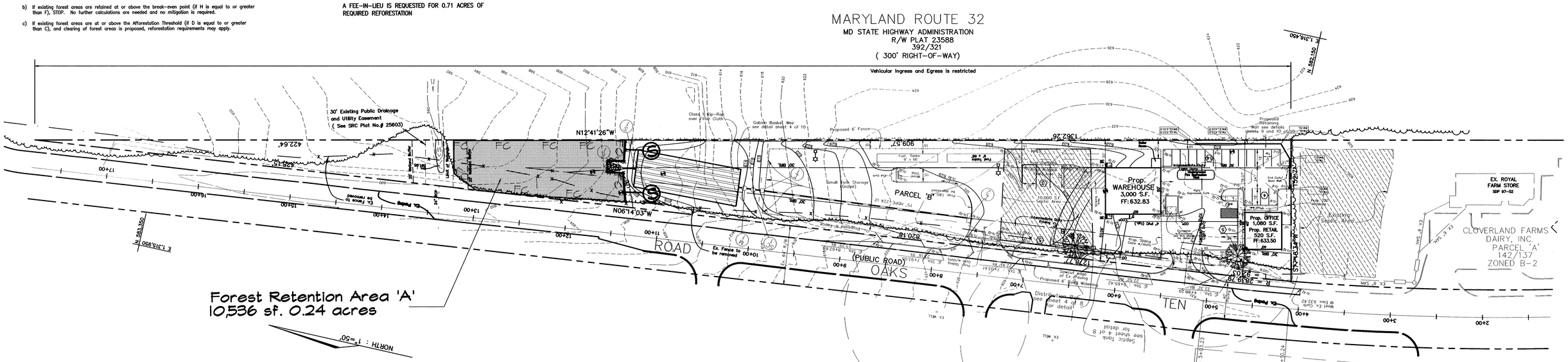
A FEE-IN-LIEU IS REQUESTED FOR 0.71 ACRES OF REQUIRED REFORESTATION

General Notes:

1. As per the Howard County Forest Conservation Manual requirements for Forest Retention, Forest Retention Area 'A' is over 10,000 square feet.
2. The forest conservation worksheet shown on this plan is for the remaining 2.4717 acres of the total 3.7717 acre parcel. The forest conservation requirement for the 1.3 acre (Royal Farms) portion of the site is described in Note 3, taken from SDP-97-52.
3. The forest conservation obligations incurred by this site development plan (0.71 acres of reforestation) have been met by payment of $9,278.28 to the Howard County Forest Conservation Fund. With any further development to the remainder of the site, additional forest conservation obligations must be met.
4. A payment into the Howard County Forest Conservation Compensation Fund to meet the 0.71 acre reforestation requirement is proposed. There are no practical or priority reforestation areas located on-site.
5. Proposed site improvements per SDP-00-03.

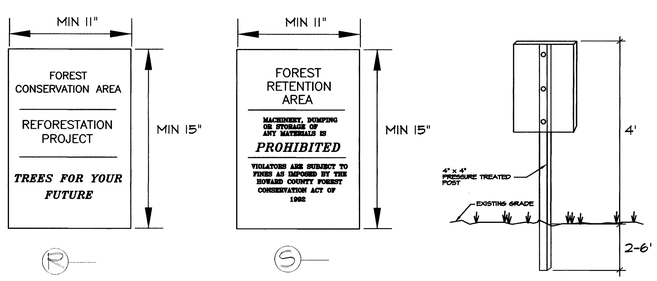


VICINITY MAP
SCALE: 1"=2000'



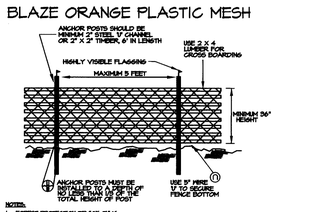
SUPPLEMENTAL INFORMATION

GROSS SITE AREA	2.4717 ACRES
ZONED	B-2, Business
TAX MAP	#22
PARCEL	#55



FOREST RETENTION & REFORESTATION SIGN DETAIL
N.T.S.

BLAZE ORANGE PLASTIC MESH



NOTES:
1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCING
Not To Scale

LEGEND

- FC — FC — FC FOREST CONSERVATION AREA
- FOREST RETENTION AREA
- SLOPES 25% & GREATER (THERE ARE NO STEEP SLOPES ON THE SITE)
- SLOPES 15 TO 25% (THERE ARE NO STEEP SLOPES ON THE SITE)
- S FOREST RETENTION SIGNAGE
- TREE PROTECTION FENCE

Owner/Developer
J. Chris Pippen
Triangle Howard Corporation, Inc.
P.O. Box 6600
Ellicott City, Maryland 21042
Phone: 410-461-5865

VOGEL & ASSOCIATES
ENGINEERS • SURVEYORS • PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

NO.	REVISION	DATE
1	REVISED AS PER COUNTY COMMENTS	5/17/99
2	REVISED AS PER COUNTY COMMENTS	9/28/99
3	REVISED AS PER COUNTY COMMENTS	11/19/99
4	REVISED AS PER COUNTY COMMENTS	12/16/99

AS-BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

12/28/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

12/27/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FOREST CONSERVATION PLAN

AMERIGAS

Tax Map #22
3RD Election District
Reference BA Chase No. 98-145&V

Parcel B
Howard County, Maryland
F-99-01

CNA
campbell & nolan associates, inc.
Civil Engineers • Land Surveyors • Landscape Architects
Planners • Geotechnical Engineers • Environmental Engineers
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(410)879-7200 • (410)838-2784 • Fax(410)838-1811
E-mail: cnainc@erols.com

September 28, 1999
STATE OF MARYLAND
DOUGLAS R. KOPECK
REGISTERED LANDSCAPE ARCHITECT
DOUGLAS R. KOPECK

DESIGN BY: DK,RR
DRAWN BY: RR
CHECKED BY: DK
DATE: May 24, 1999
SCALE: 1" = 50'
W.O. NO.: 97-85

SHEET 1 OF 1

F-00-01