GENERAL NOTES

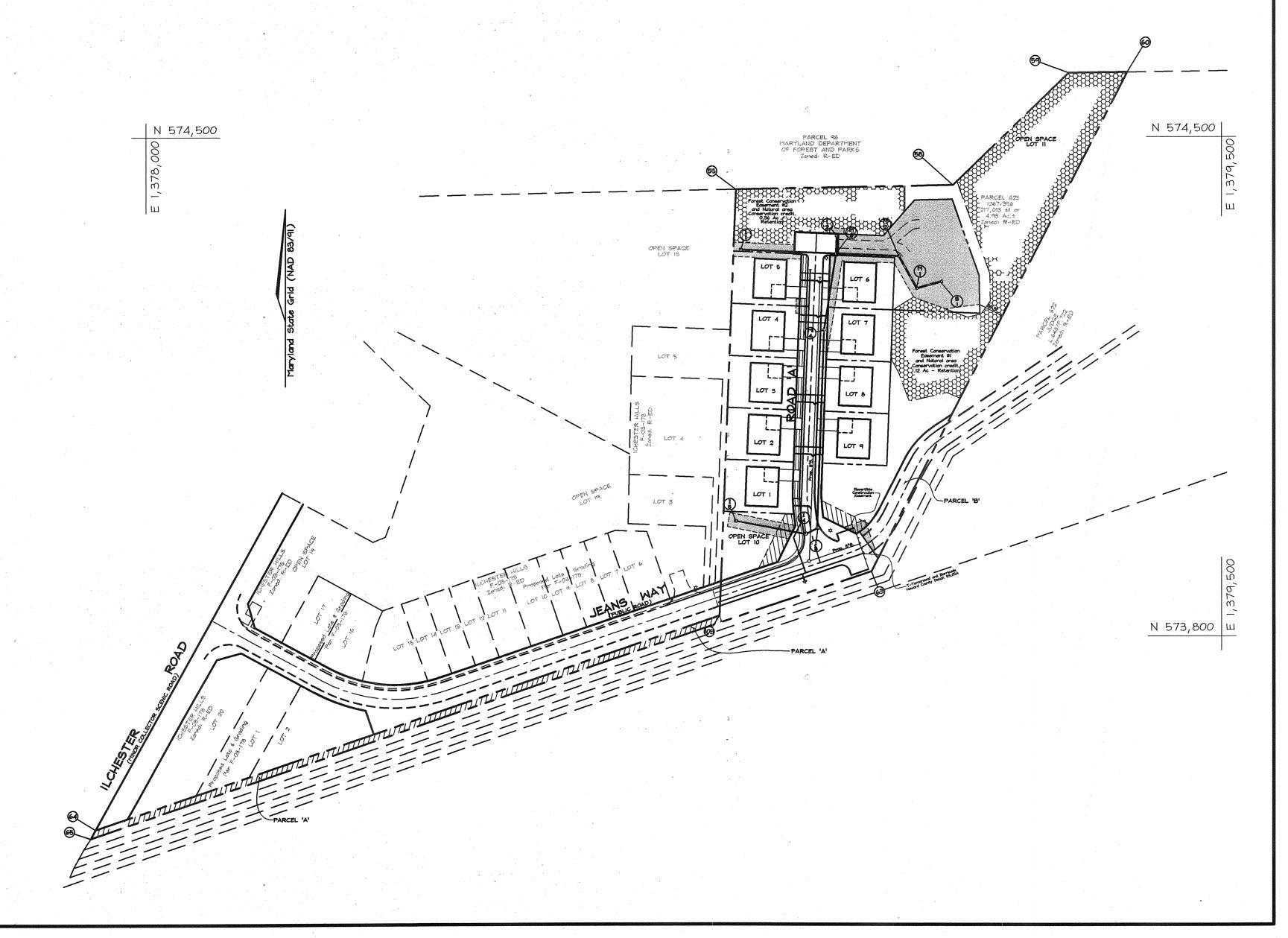
- 1. Subject property zoned "R-ED" per 02/02/04 comprehensive zoning plan.
- 2. The property was incorporated within the Metropolitan district on December 29, 2003
- 3. Soils map no. 20 \$ 21.
- 4. Gross area of site: 4.98 ac.± 5. Net area of site: 4.94 ac.± (0.04 ac. steep slopes)
- 6. Density calculations: a) number of units allowed:
- $4.94 \text{ ac.} \times 2 = 9.88 \text{ units}$ b) number of units proposed: 9 units
- 7. Open space requirements:
- a) open space required (50%): $4.98 \text{ ac.} \times 0.50 = 2.49 \text{ ac.}$
- 8. Area of proposed buildable lots: 1.40 ac.± 9. Area of proposed public right of way: 0.73 ac.±
- 10. Area of proposed open space:
- a) Credited open space provided: 2.49 ac±
- b) Non-credited open space provided: 0.02 act c) Total open space provided: 2.51 act
- 11. Area of proposed Parcel 'A': 0.20 act 12. Area of proposed Parcel 'B': 0.14 act
- 13. Topography is based on a field run survey prepared by C.B. Miller \$ Associates
- in December 2002. 14. Wetlands investigation and Forest Stand delineation prepared by Exploration Research Inc.
- 15. The Project is in conformance with the latest Howard County standards unless waivers have been approved.
- 16. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based on the Maryland State Pane coordinate system. Howard Co. Monument
- Nos. 31E6 and 31E7 were used for this project.
- 17 There are no floodplains, historic structures or cemeteries on-site. 18. This plan is subject to compliance with the amended fifth edition of the Howard County Subdivision
- and Land Development Regulations, effective October 2, 2003. 19. Street trees to be provided along both sides of Jeans Way and Road 'A' and will be
- shown at the final plan stage.
- 20. Landscaping will be shown at the final plan stage.
- 21. Public water and public sewer are proposed to tie into existing Contract No. 14-4096-D. 22 This Property has 10' of frontage on a scenic road (IIchester Road). Within the 10' of frontage, no change is proposed to the view from Ilchester Road. The proposed subdivision is not visible from Ilchester Road.
- 23. Parcel 'A' is a non-buildable parcel to be privately owned and maintained by the owner/developer of lichester Heights.
- 24. After recordation of the 11chester Heights Plat parcel 'B' shall be transferred to the owner of adjacent Parcel 622 free of charge for the purpose of a future public road right-of-way, in lien of construction
- of a road at this time. Parcel 'B' is devoid of Development Density for parcel 622. 25. Geotechnical subsurface investigation prepared by Herbst Benson and Associates. The test was
- focusing on presence of ground water and rock 26. Stormwater management for this site is provided by the following methods:
- a) This site is exempt from providing Cpv.
- b) Water quality and recharge for the road and Lots 1 thru 5 and part of Lot 6 is provided in a BMP sand filter.
- c) Water quality and recharge for part of Lot 6 and Lots 7 thru 9 is provided by the
- sheet flow to buffer credits in combination with the level spreaders. d) Water quality for subarea 4 is provided in the off site facility, Ilchester Hills
- e) All Forest Conservation Retention Easements are overlapped with "Natural Area
- Conservation Credit." 27. This plan is subject to Planning Board case #364 approved by Howard County Planning Board on 06/11/04.
- 28. Open Space Lots 10 and 12 are Home Owners Association (H.O.A.) owned and maintained. 29. Open Space Lot II is Howard County owned and maintained.

STREET	LIGHT -	TABLE
FIXTURE TYPE	POLE TYPE	LOCATION
100 watt HPS vapor pendant mount; full cutoff; post top: colonial	14' bronze fiberglass ornamental	€ 5ta. 4+33.61 14.99′ right
100 watt HPS vapor pendant mount; full cutoff; post top: colonial	14' bronze fiberglass ornamental	€ Sta. 0+26.00 30.00' right

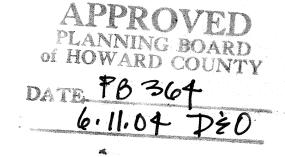
Note: Light pole location given at center of base

PRELIMINARY EQUIVALENT SKETCH PLAN ILCHESTER HEIGHTS

LOTS 1 THRU OPEN SPACE LOTS 10 THRU 12 AND PARCELS 'A' AND 'B' HOWARD COUNTY, MARYLAND



LOCATION MAP SCALE: 1"=100"



TENTATIVELY APPROVED DEPT. OF PLANNING AND ZONING OF

LEGEND Existing Contour Proposed Contour Direction of Flow Existing Spot Elevation +8253 Proposed Spot Elevation mmmm Existing Trees mymm 15-24.99% Slopes 25-50% Slopes

> VICINITY MAP SCALE: 1"=2000'

BENCHMARKS

N 570.852.353 E 1.376.700.524 El.: 482.760 (feet) N 174,448,155 E 419,864,035 EL: 145,892 (meters) N 572,335.322 E 1,377,503.920 El.: 478.648 (feet)

SHEET INDEX DESCRIPTION SHEET No. 1 of 4 Cover Sheet Preliminary Plan 2 of 4 3 of 4 Schematic Grading, Landscape & Sediment Control Plan Preliminary Forest Conservation Plan, Notes and Details

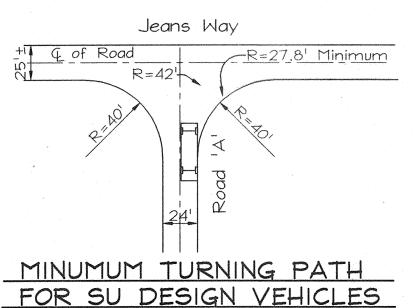
R	DAD 'A	Y' CEN	ITERLIN	VE CURVE	DATA
CURVE No.	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
CI	275.00'	101.12	21°04'08"	N08°21'18"W	100.551

	ROAD CLASSIFICATION	
ROAD NAME	CLASSIFICATION	R/W
Jeans Way	Public Access Street	Varies
Road 'A'	Public Access Place	40'

	.S. EQUIV	
/ CO	ORDINATE	TABLE
POINT	NORTHING	EASTING
55	574,417.9980	1,378,828.9770
58	574,424.4179	1,379,131.7068
59	574,582.0685	1,379,293.0692
60	574,583.1708	1,379,374.7255
63	573,882.9408	1,379,017.9587
64	573,522.4980	1,377,935.6860
65	573,510.1623	1,377,928.8845
103	573 820 3742	1.378.806 2343

1	(6	ORDINATE	TABLE \
	POINT	NORTHING	EASTING
70	55	175,082.9560	420,267.9127
3	58	175,084.9127	420,360.1850
12	59	175,132.9647	420,409.3683
55	60	175,133.3007	420,434.2572
7	63	174,919.8702	420,325.5145
60	64	174,810.0070	419,995.6371
45	65	174,806.2471	419,993.5640
43	103	174,900.7999	420,260.9807

METRIC FOLIVALENT



Not to Scale

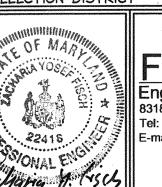
OWNER/DEVELOPER

HK Development C/O Mr. Robert A. Hale 4635 IIchester Road Ellicott City, MD 21043-6819

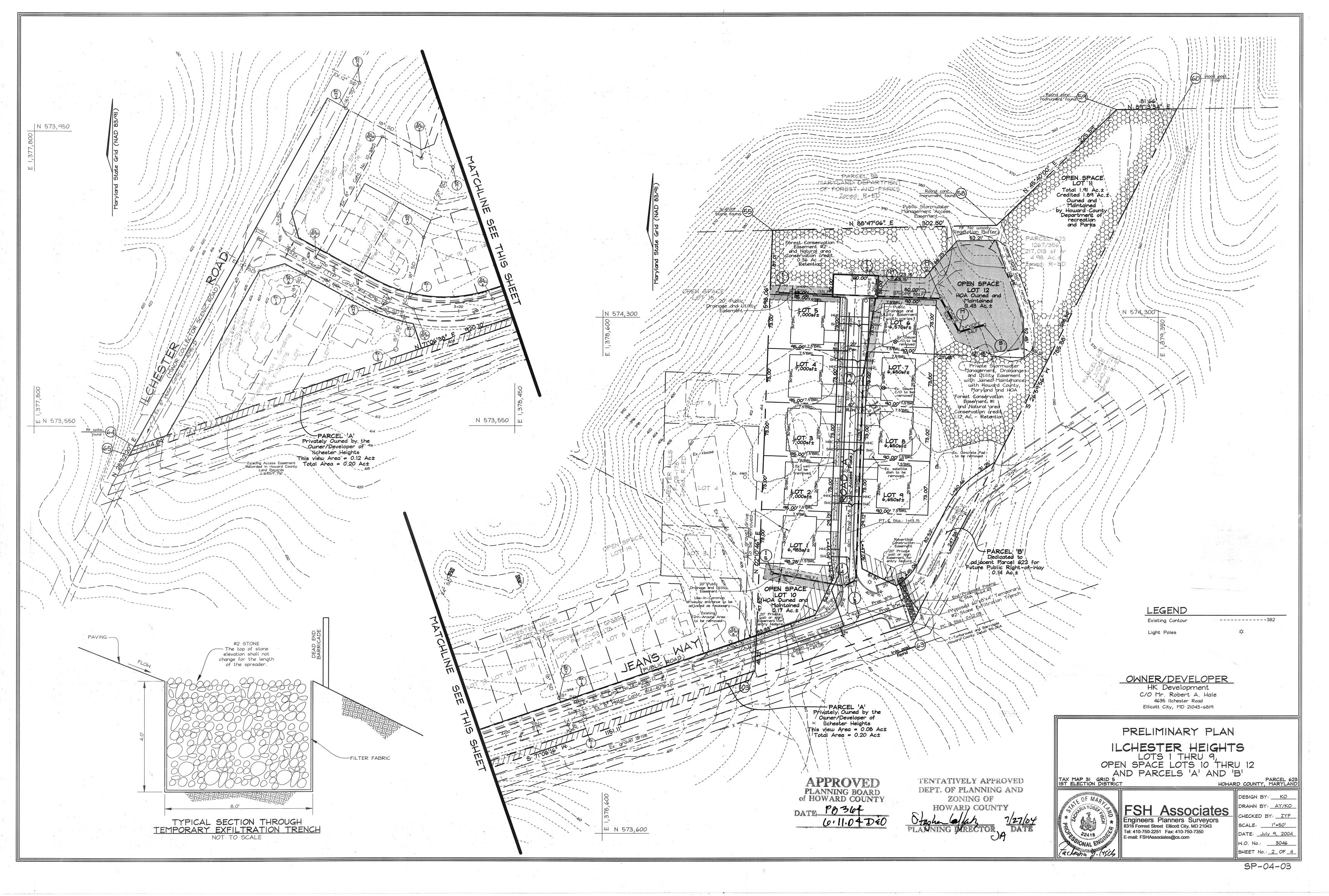
COVER SHEET

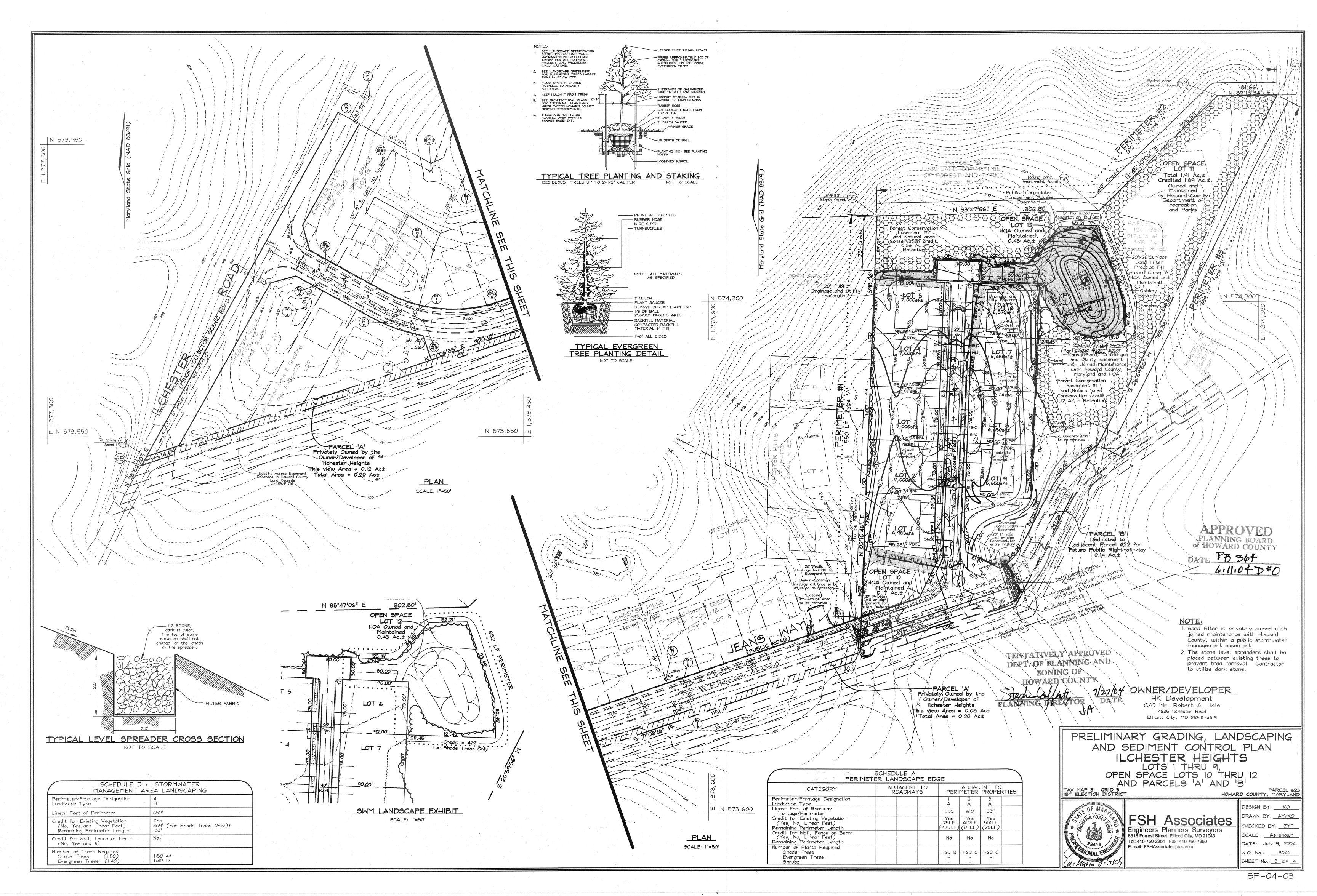
ILCHESTER HEIGHTS

LOTS 1 THRU 9, OPEN SPACE LOTS 10 THRU 12 AND PARCELS 'A' AND 'B' TAX MAP 31 GRID 5 PARCEL 623 HOWARD COUNTY, MARYLAND



DESIGN BY: KO DATE: July 9, 2004 W.O. No.: 3046 SHEET No.: 1 OF 4





Forest Tree Protection and Management Notes

- 1. Tree protection devices shall be installed prior to any grading or land
- After the boundaries of the retention areas have been staked and flagged
- and before any disturbance has taken place a pre-construction meeting with the Howard County Inspector is required.

 Provide maintenance to tree protection devices and signage to maintain their integrity throughout the duration of the project.
- Attachment of signs to tree protection devices to maintain their integrity thoughout the duration of the project.
- Any significant changes made to the Forest Conservation Plan shall be made with the prior approval if the Howard County Dept Of Planning and
- . No burial of discarded material is permitted within the Forest Conservation and Planting areas. No open burning within 100 feet of wooded areas is permitted.
- Post construction phase. a. Inspect existing trees around the perimeter of the site for signs of root
- or trunk damage and excessive soil compaction. b. Remove dead or dying trees and evaluate for hazard tree removal.* . All temporary forest protection devices will be removed after construction. d. Following completion of construction, prior to use, the county inspector shall inspect the entire site for compliance with this Forest Conservation
- * A licenced Arborist or Forester should be retained for this service as needed.

		SPECIMEN TREES			
Key	Name	Scientific Name	Size	Condition	Retained
ST-I	White Oak	Quercus alba	33"	Fair	NO
ST-2	Black Oak	Quercus velutina	39"	Fair	NO
ST-3	Tulip Poplar	Liriodendron tulipifera	31"	Fair	NO
ST-4	Tulip Poplar	Liriodendron tulipifera	33"	Good	NO
ST-5	Red Oak	Quercus rubra	32"	Fair	NO
ST-6	Tulip Poplar	Liriodendron tulipifera	34"	Good	NO
ST-7	Tulip Poplar	Liriodendron tulipifera	30"	Good	YES
ST-9	Red Oak	Quercus rubra	31"	Fair	NO
ST-10	Tulip Poplar	Liriodendron tulipifera	46"	Fair	NO
ST-II	Tulip Poplar	Liriodendron tulipifera	31"	Good	NO
ST-12	Tulip Poplar	Liriodendron tulipifera	30"	Fair	NO
ST-13	Red Oak	Quercus rubra	35"	Fair	YES
ST-14	Red Oak	Quercus rubra	39"	Fair	NO
ST-15	Red Oak	Quercus rubra	37"	Fair	NO
	Red Oak	Quercus rubra	39"	Good	NO
ST-17	Tulip Poplar	Liriodendron tulipifera	32"	Good	NO
	Black Cherry	Prunus serotina	34"	Poor	NO
ST-20	Tulip Poplar	Liriodendron tulipifera	33"	Fair	YES
	Tulip Poplar	Liriodendron tulipifera	33"	Poor	YES
ST-22	Tulip Poplar	Liriodendron tulipifera	31"	Good	YES
ST-23	Red Oak	Quercus rubra	35"	Poor	YES
ST-24	Tulip Poplar	Liriodendron tulipifera	41"	Poor	YES
	Tulip Poplar	Liriodendron tulipifera	36"	Fair	YES

ST-8 was re-evaluated and not found to be large enough

ST-19 fell down in a storm

FOREST CONSERVATION EASEMENT TABLE

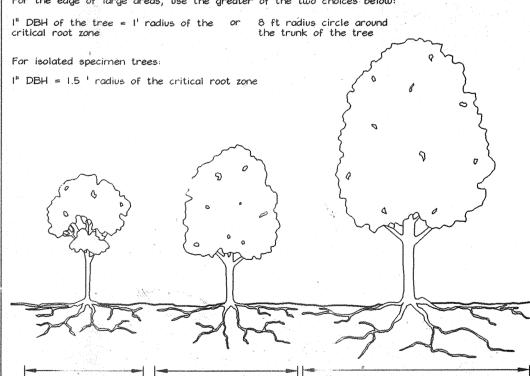
EASEMENT	TYPE	AREA (ACRES)
1.	RETENTION	1.12
2	RETENTION	0.36
TOTAL		1.48

FOREST CONSERVATION WORKSHEET

en e	Net Tract Area	Acre
SHALL DOUGHAND SHALL SHA	A. Total Tract Area	4.98
	B. Area Within 100 Year Floodplain	,
	C. Other deductions	 4.98
	D. Net Tract Area Zoning Use Category: RESIDENTIAL-SUBURBAN	4.90
	Land Use Category	
	E. Afforestation Minimum (15 % x D)	0.75
	F. Conservation Threshold (20 % x D)	1.00
	Existing Forest Cover	
	G. Existing Forest on Net Tract Area	2.66
	H. Forest Area Above Conservation Threshold	1.66
	Breakeven Point	***
	1. Forest Retention Above Threshold with no	1.33
	Mitigation	
	J. Clearing Permitted without Mitigation	1.33
	Proposed Forest Clearing	
	K. Forest Areas to be Cleared	1.18
	L. Forest Areas to be Retained	1.48
	Planting Requirements	0.00
	M. Reforestation for Clearing Above Threshold	0.30
	N. Reforestation for Clearing Below the Threshold P. Credit for Retention Above Conservation Threshold	0.48
	Q. Total Reforestation Required	0
	R. Total Afforestation Required	0
	S. Total Reforestation and Afforestation Requirement	0

For the edge of large areas, use the greater of the two choices below:

CRITICAL ROOT ZONE

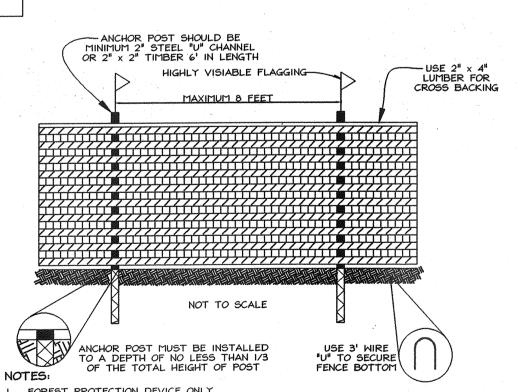


TREE PROTECTION DETAIL 30" DBH TREE 45' RADIUS CRZ BLAZE ORANGE PLASTIC MESH APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. HOWARD COUNTY DEPARTMEN F PLANNING AND CHIEF, DIVISION OF HIEF, BUREAU OF HIGHWAYS HEF, DEVELOPMENT ENGINEERING VISION

This Forest Conservation Plan complies with the Howard County Manual of 1998 and the Maryland Forest Conservation Act of 1991.

Due to the large number of Specimen Trees, it is necessary to remove several to accomodate development

Financial surety for the Forest conservation, retention, must be posted as part of the Developpers agreement



FOREST PROTECTION DEVICE ONLY.
RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.

4. ROOT DAMAGE SHOULD BE AVOIDED.

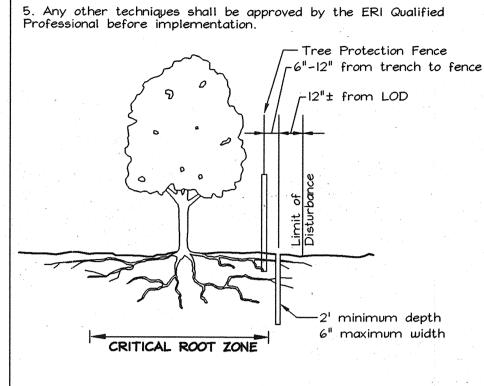
5. PROTECTIVE SIGNAGE MAY ALSO BE USED.

6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

ROOT PRUNING

- . Retention areas shall be set prior to construction
- 2. Boundaries of retention areas shall be flagged, and location of trench shall be specified by ERI Qualified Professional.
- 3. Roots shall be cut cleanly with root pruning equipment. Where roots >1" are found, trenching shall be done by air spade or hand tools. Roots >1" shall be cut with a hand saw. 4. Trench shall be immediately backfilled with soil removed or high

organic content soil.



N 574,300

Forest Retention Area Protection Signage FOREST RETENTION

> MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS PROHIBITED

AREA

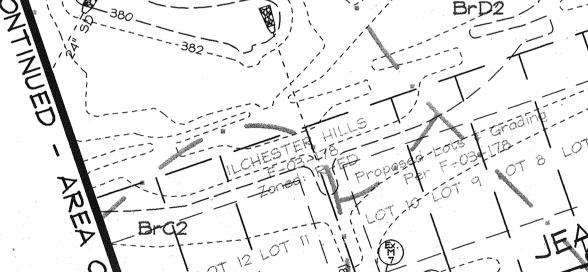
VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991

Forest Conservation Narrative

The site consists of 4.98 Ac. of which 2.66 Ac. are forested. These woodlands have been preserved to the maximum extent possible, resulting in retention within two Forest Conservation Easements of 1.48 Ac. There is no mitigation required for this development.

and required Storm Water Management facilities.

in the amount of \$12,893.80 (64,469 sf of retention @ \$0.20 per square foot).



Ш N 573,600

EXPLORATION

LANDSCAPE ARCHITECTS

RESEARCH, INC.

LEGEND Existing Contour <u>-----382</u> Proposed Contour Spot Elevation Direction of Flow Property Boundary Line

Soils Division Line Tree Protection Fence Forest Easement Signage Forest Conservation

+- PARCEL 'A'

1 × lichester Heights

Privately Owned by the

This view Area = 0.08 Act Total Area = 0.20 Act

Owner/Developer of

+8253

Forest Conservation

Dedicated

/ adjacent Parcel 622 for Future Public Right+of-Wa

TENTATIVELY APPROVE

DEPT. OF PLANNING AND

ZONING OF

HOWARD COUNTY

Spil Protection Zone Notes The Soil Protection Zone shall include

Total 1.91 Ac.± Credited 1.89 Ac.

Owned and \ Howard County

> all areas contained inside the Limit of 2. Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line

> or 40% of the height of the tree. whichever is greater. 3. No construction activity is permitted within the Soil Protection Zone. 4. If soil has been compacted or grading has taken place in the vicinity

of the Soil Protection Zone, root prur ng shall be implemented per Root Prun ng detail, shown on this plan. 5. Root pruning shall occur prior to the beginning of construction. 6. Where the Soil Protection Zone

must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial WOBFCZ PLANNING BOARD trenching, or another method approved by the ERI Forest Conservation of HOWARD COUNTY Professional. 7. Prior to construction, the Limits of

Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.

8. Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized.

9. Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.

OWNER/DEVELOPER HK Development C/O Mr. Robert A. Hale

4635 IIchester Road Ellicott City, MD 21043-6819



OPEN SPACE LOTS 10 THRU 12 AND PARCELS 'A' AND 'B' TAX MAP 31 GRID 5 PARCEL 623 HOWARD COUNTY, MARYLAND



Engineers P 8318 Forrest Stree

DESIGN BY: SH CHECKED BY: ZYF SCALE: 1"=50" y №D 21043 DATE: July 9, 20 Wooth Etts nx 410-754 W.O. No.: 3046 SHEET No.: 4 OF S

SP-04-03