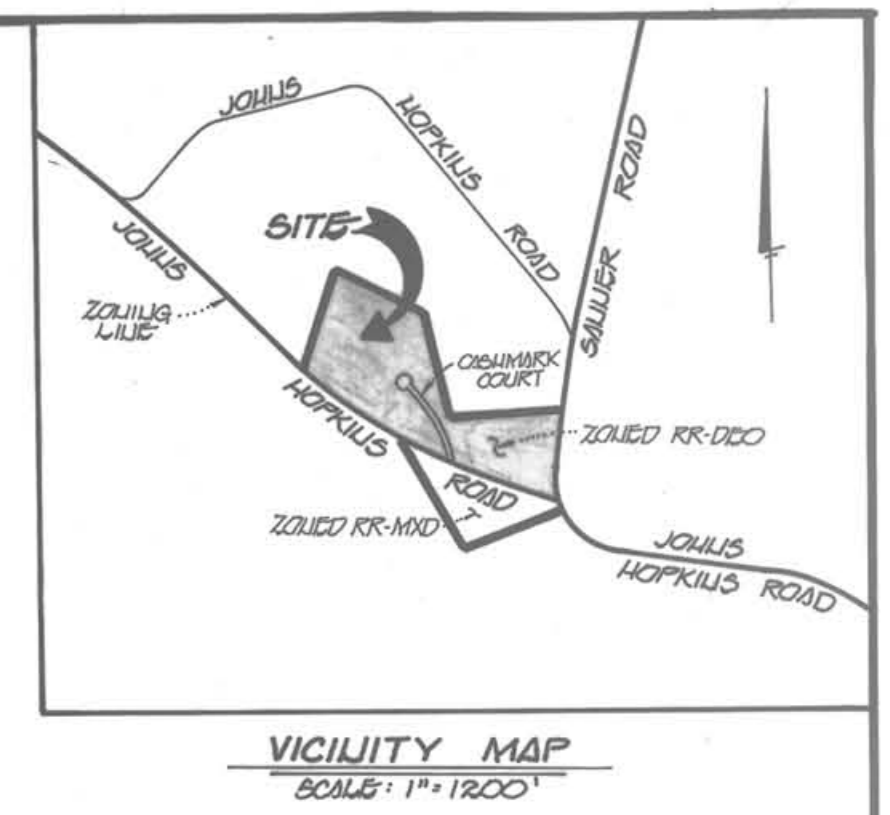


STA	NORTH	EAST
594	544163.2861	1397626.8380
596	544773.8771	1397281.5820
607	545611.4886	1397464.1539
616	545962.4814	1398091.9731
621	545932.8299	1398883.7540
622	545045.4781	1399022.6376
624	544849.3663	1399566.2911
626	544744.4779	1399487.3582
627	544557.6284	1399797.8887
628	544514.8388	1399776.5923
629	544527.7926	1399109.1174
630	544497.5152	1398574.4688
631	545004.6121	1398225.5464
632	544887.8839	1398221.7840
633	544693.2487	1398176.9997
636	544688.9537	1398464.6609
637	544492.8418	1398943.3537
639	544483.3877	1398939.7640
640	544380.1180	1398192.4230



**GENERAL NOTES**

- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- PROJECT BACKGROUND:  
 LOCATION: JOHN'S HOPKINS AND SANNER ROADS TAX MAP: 41  
 ZONING: RR-250 P/O PARCEL: 121  
 ELECTION DISTRICT: FIFTH (5TH)  
 AREA OF OPEN SPACE REQUIRED (25% MIN): 4.91 AC±  
 AREA OF OPEN SPACE PROVIDED: 5.40 AC±  
 AREA OF PRESERVATION PARCEL: 6.59 AC±  
 TOTAL TRACT AREA/SECTION AREA: 19.634 AC±  
 AREA OF 100 YEAR FLOODPLAIN = 2.73 AC±  
 AREA OF PROPOSED LOTS = 6.429 AC±  
 AREA OF PROPOSED ROADS: 1.215 AC±
- TOTAL NUMBER OF BUILDABLE LOTS ALLOWED: 9  
 NUMBER OF PROPOSED LOTS: 8  
 PREVIOUS PLAN NUMBERS: 594-10  
 DATE SKETCH PLAN APPROVED AND DPZ REFERENCE #: 5-94-10 APPROVED ON 10-27-93
- TOPOGRAPHIC SURVEY PROVIDED BY HOWARD CO. 1"=200' TOPO & FIELD RAN TOPO BY FISHER, COLLINS AND CARTER, INC. ON OR ABOUT APRIL 26, 1993 AND IS SHOWN AT A 2' CONTOUR INTERVAL.
- HORIZONTAL AND VERTICAL DATUM BASED ON THE FOLLOWING CONTROL STATIONS:  
 B.M.#1-HO. CO. MON.#41EA ELEV.=407.64  
 CONCRETE MONUMENT SET 10.8' OFF OF THE EDGE OF JOHN'S HOPKINS ROAD.  
 LOCATION NORTH: 544825.728  
 EAST: 1339217.473  
 B.M.#2-HO. CO. MON.#238007 ELEV.=440.45  
 CONCRETE MONUMENT IN FRONT OF 11179 JOHN'S HOPKINS ROAD 14.5' OFF OF THE CENTERLINE ROAD.  
 LOCATION NORTH: 544870.4540  
 EAST: 1340044.0254
- PRIVATE WATER AND PUBLIC SEWERAGE TO BE UTILIZED.
- A WAIVER TO ALLOW FEE-IN-LIEU FOR STORMWATER MANAGEMENT OF THE ROAD IS BEING SUBMITTED WITH THIS PRELIMINARY PLAN SUBMISSION TO THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
- A FLOOD STUDY HAS BEEN PROVIDED BY FISHER, COLLINS & CARTER, INC. AND HAS BEEN SUBMITTED UNDER #24-15.
- BOUNDARY SURVEY PREPARED BY FISHER, COLLINS AND CARTER, INC. ON FEBRUARY 8, 1994.
- WETLANDS DELINEATED BY M.A. DIRCKS & CO., INC. & APPROVED ON 10/27/93
- TRAFFIC STUDY BY THE TRAFFIC GROUP, INC. AND APPROVED ON 10/27/93.
- SECTION 16.18(a)(2) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PROHIBITS CLEARING, GRADING OR CONSTRUCTION ACTIVITY WITHIN THE REQUIRED WETLAND OR STREAM BANK BUFFERS
- IN CONJUNCTION WITH THE FINAL PLAN SUBMISSION, STREET TREES WILL BE PROVIDED BY THE DEVELOPER 40 FEET ON CENTER WITHIN THE PUBLIC RIGHT-OF-WAY OF CASHMARK COURT.
- ALL TYPE 'A' LANDSCAPE BUFFERS SHOWN ON THESE PLANS SHALL CONFORM TO THE HOWARD COUNTY LANDSCAPE MANUAL.
- THE ON-SITE WASTEWATER TREATMENT / DISPOSAL AREA (INCLUDING BOTH THE ON-SITE TRENCH AREA & THE PRESERVE AREA) SHOWN ON THIS PLAN WILL BE ENCOMPASSED WITHIN A PUBLIC SEWERAGE EASEMENT FOR A CHANGED SEPTIC SYSTEM.

(W) DENOTES PROPOSED WELL LOCATION.  
 (H) DENOTES PROPOSED HOUSE LOCATIONS

**NOTES:**

- THIS AREA DESIGNATES A SHARED SEWERAGE EASEMENT OF MINIMUM 80,000 FT<sup>2</sup> AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR SHARED SEWERAGE COLLECTIONS. ANY UTILITIES IN THIS AREA ARE IDENTIFIED UNLESS PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ELECTRIC UTILITIES INTO THE SHARED SEWERAGE EASEMENT. RECONSTRUCTION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- THE LOTS SHALL HERETOFORE COMPLY WITH THE MINIMUM WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 8 LOTS TO BE SERVED.
- MAXIMUM SEWERAGE DESIGN FLOW 4,800 GAL/DAY (8 LOTS 4 BEDROOMS=150 GAL/195.)
- 400 LINEAR FEET OF STANDAARD TRENCH PROVIDED FOR INITIAL SYSTEM.
- TRENCH SPACING SHOWN AT 30'-00". FUTURE TRENCHES TO BE INSTALLED BETWEEN ORIGINAL TRENCHES.
- SEPTIC SYSTEM DESIGN IS SCHEMATIC ONLY. MDE, HEALTH DEPT. & DPW MUST APPROVE A DETAILED SEPTIC SYSTEM PLAN PRIOR TO RECORD PLAT.
- 5,000' ROAD MUST BE LOCATED AT LEAST 100' FROM SEPTIC FIELD.

**PRELIMINARY PLAN**

PROPERTY OF  
**JOHN S. CASHMARK ET. AL.**  
 LOTS 1-9  
 AND PRESERVATION PARCEL 'A'  
 LIBER 1205 P/O PARCEL 121 FOLIO 471  
 TAX MAP 41 BLOCKS 15/16  
 5TH ELECTION DISTRICT HOWARD CO., MD.  
 SCALE: 1"=100' DATE: 09-29-94  
 SHEET 1 OF 2

TENTATIVELY APPROVED  
 DEPT. OF PLANNING AND  
 ZONING OF  
 HOWARD COUNTY

Mark C. Leyle 11/18/94  
 PLANNING DIR. DATE  
 JA



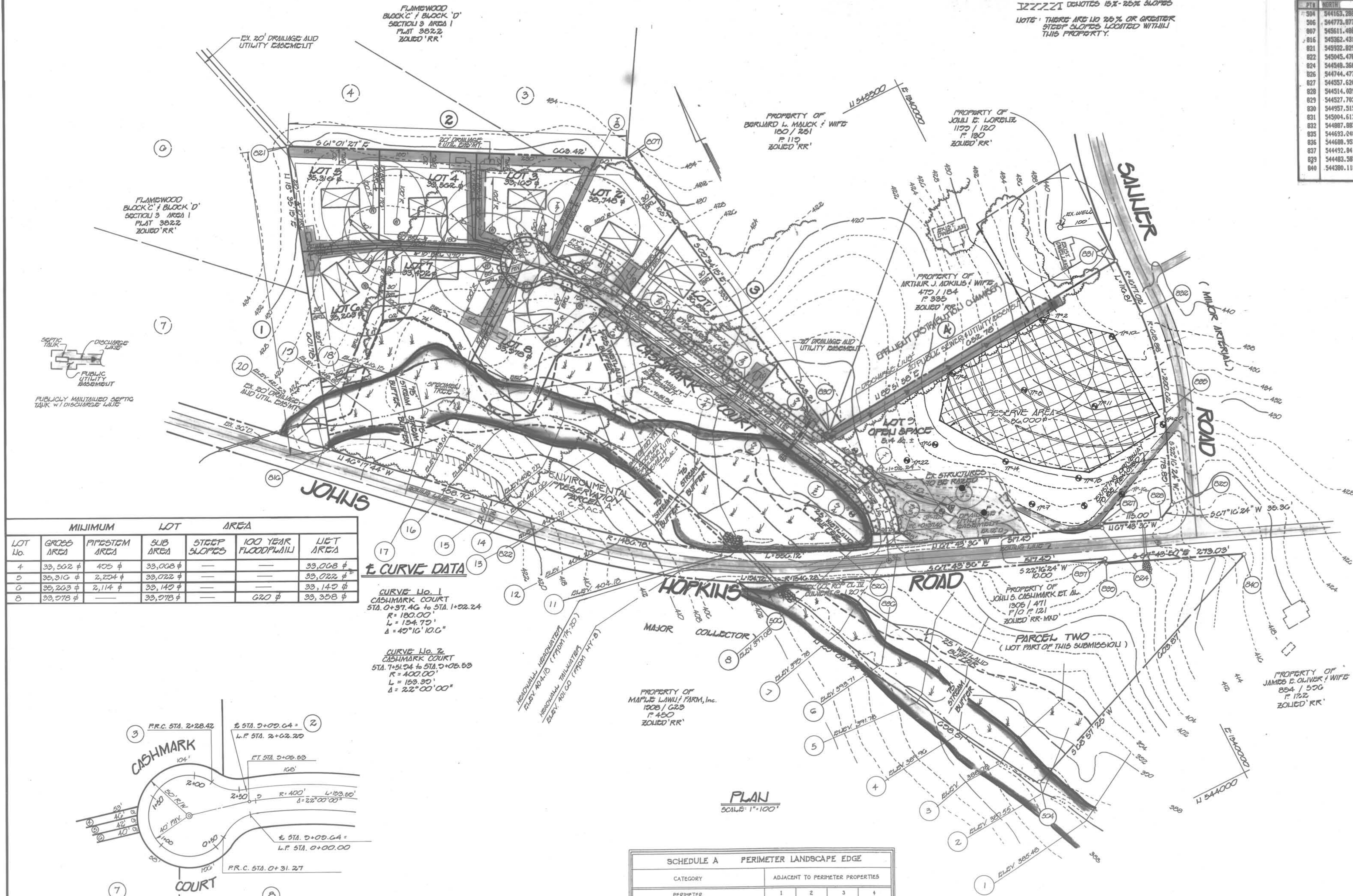
**OWNER**  
 JOHN S. CASHMARK ET. AL.  
 7075 KILDRER ROAD  
 LAUREL, MARYLAND 20723

**DEVELOPER**  
 LAND DESIGN AND DEVELOPMENT, INC.  
 C/O DONALD REUWER  
 10805 HICKORY RIDGE ROAD  
 COLUMBIA, MARYLAND 21044  
 TEL: (410) 740-2100

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			
	1	2	3	4
PERIMETER	A	A	A	A
LANDSCAPE TYPE	G02	G03	G03	G03
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	110	110	110	110
CREDIT FOR WALL, FENCE OR BERRI (YES, NO, LINEAR FEET)	110	110	110	110
NUMBER OF PLANTS REQUIRED	11	11	11	11
SHADE TREES	11	11	11	11
EVERGREEN TREES	11	11	11	11
OTHER TREES FOR SUBSTITUTION	11	11	11	11
SHRUBS FOR SUBSTITUTION	11	11	11	11
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED:				

NOTE: SHADE TREES TO BE PROVIDED SHALL BE A MIXTURE OF 2 OR 3 TYPES OF TREES. ACTUAL TYPES WILL BE SHOWN AT THE FINAL PLAN STAGE.

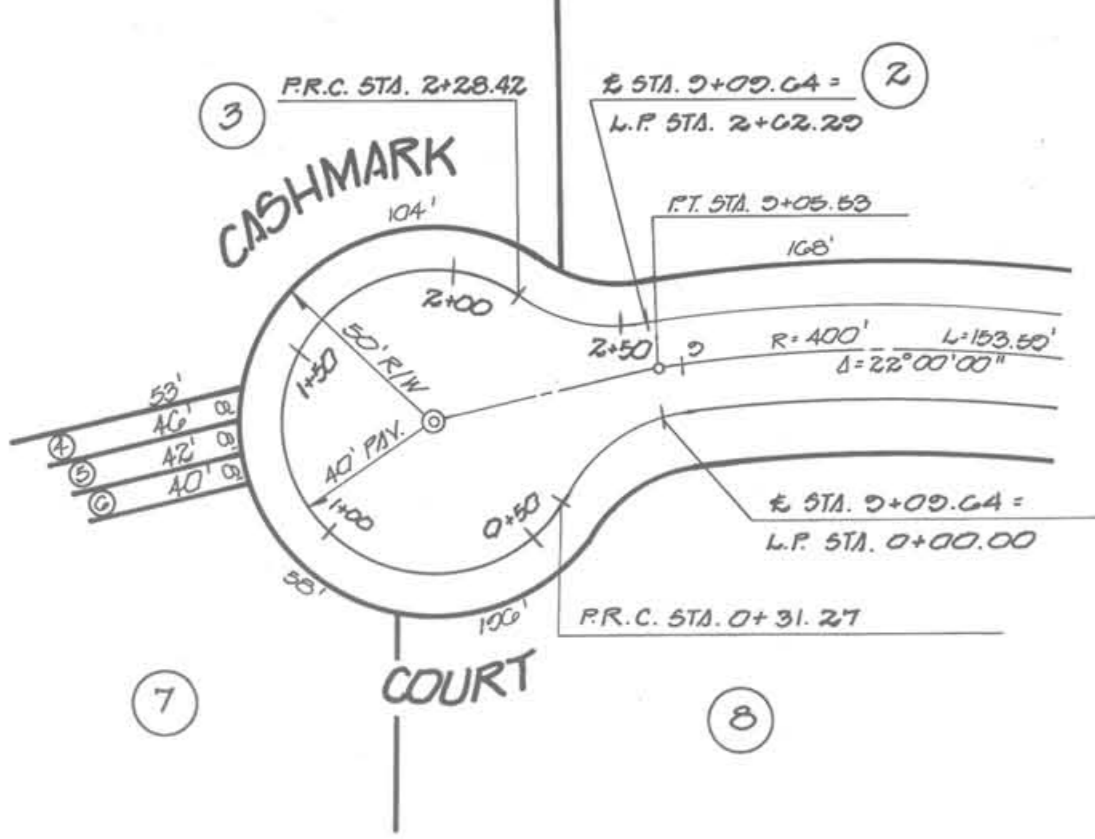
☼ - DESIGNATED STREET TREES  
 PLANTED 40' O.C.  
 48 TREES TOTAL



LOT No.	GROSS AREA	PISTEM AREA	SUB AREA	STEEP SLOPES	100 YEAR FLOODPLAIN	NET AREA
4	33,502 #	425 #	33,068 #			33,068 #
5	33,316 #	2,204 #	33,022 #			33,022 #
6	33,223 #	2,114 #	33,142 #			33,142 #
8	33,078 #		33,078 #		620 #	33,358 #

**E CURVE DATA**  
 CURVE No. 1  
 CASHMARK COURT  
 STA. 0+37.46 TO STA. 1+02.24  
 R=180.00'  
 L=154.70'  
 Δ=45°16'10.0"

CURVE No. 2  
 CASHMARK COURT  
 STA. 1+51.24 TO STA. 2+06.69  
 R=400.00'  
 L=159.90'  
 Δ=22°00'00"

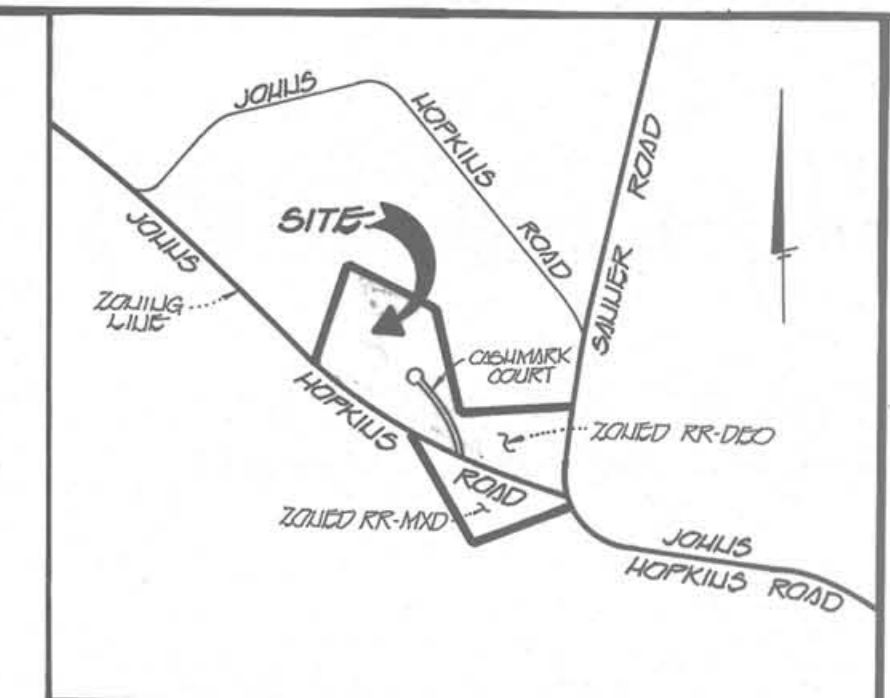


**CUL-DE-SAC DETAIL**  
 SCALE: 1"=50'

APPROVED FOR PRIVATE WATER AND SHARED SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 Joseph Bond 11-15-94  
 COUNTY HEALTH OFFICER (S) DATE

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9171 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELKTON CITY, MARYLAND 21928  
 (410) 461-2855

COORDINATE TABLE		
PT#	NORTH	EAST
504	544163.2861	1339628.8300
506	544773.8771	1339289.5820
807	545611.4866	1339464.1559
816	545362.4314	1338691.3731
821	545932.8299	1338883.7540
822	545045.4781	1339023.6376
824	544548.3663	1339966.2911
826	544744.4779	1339487.3982
827	544557.6204	1339970.0807
828	544514.0395	1340076.5033
829	544527.7026	1340109.1174
830	544957.5152	1339574.4683
831	545004.6121	1340225.5164
832	544887.8833	1340221.7849
835	544699.2487	1340176.5997
836	544688.9537	1339464.6609
837	544492.8418	1339939.5537
839	544483.5877	1339939.7640
840	544380.1188	1340192.4290



VICINITY MAP  
SCALE: 1" = 1200'

**LEGEND**

- L.O.D. LIMIT OF DISTURBANCE
- SUT FENCE
- EXIST. CONTOUR
- PROP. CONTOUR
- 15% - 25% SLOPES
- PROP. DISCHARGE LINE
- PROP. SEPTIC TANK (w/ DISCHARGE LINE)

NOTE: THERE ARE NO 25% OR GREATER STEEP SLOPES LOCATED WITHIN THIS PROPERTY.

**FLOODPLAIN SUMMARY**

X - SECTION STATION	Q (c.f.s.)	EXIST. & PROP. 100 YR. U.S. EL.
1+00	272	385.48
2+00	272	387.55
3+00	272	388.78
4+00	272	389.96
5+00	272	391.78
6+00	272	393.71
7+00	272	395.78
8+00	272	397.08
11+00	376	404.18
12+00	376	404.20
13+00	376	404.91
14+00	376	407.06
15+00	376	408.20
16+00	376	411.05
17+00	376	413.61
18+00	376	416.15
19+00	376	418.80
20+00	376	421.23



TENTATIVELY APPROVED  
DEPT. OF PLANNING AND ZONING OF  
HOWARD COUNTY

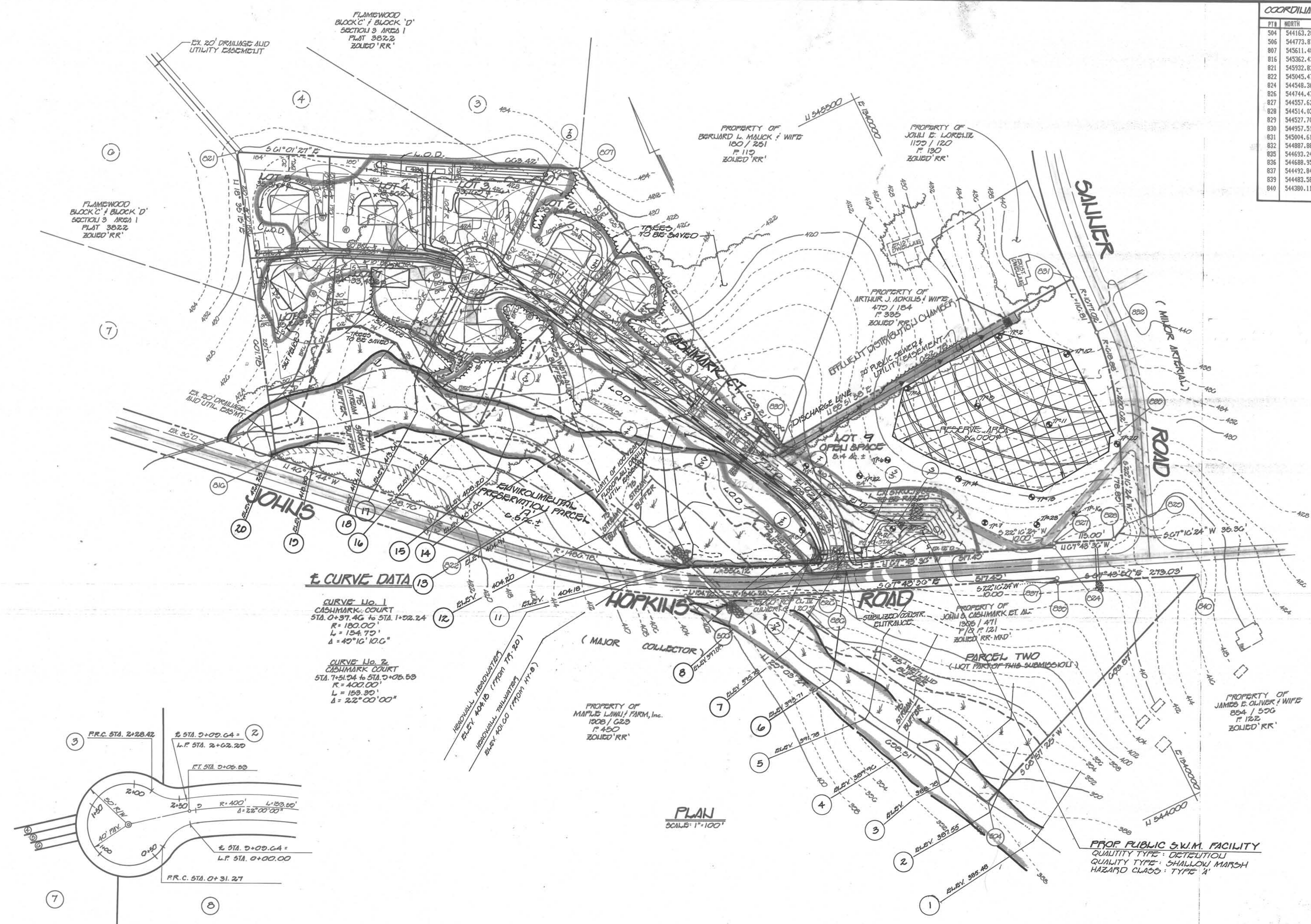
*John S. Cashmark* 11/14/94  
PLANNING DIRECTOR

SCHEMATIC GRADING & SEDIMENT CONTROL PLAN  
PROPERTY OF  
**JOHN S. CASHMARK ET. AL.**

LIBR 1208  
TAX MAP 41  
5TH. ELECTRICTION DISTRICT  
SCALE: 1" = 100'

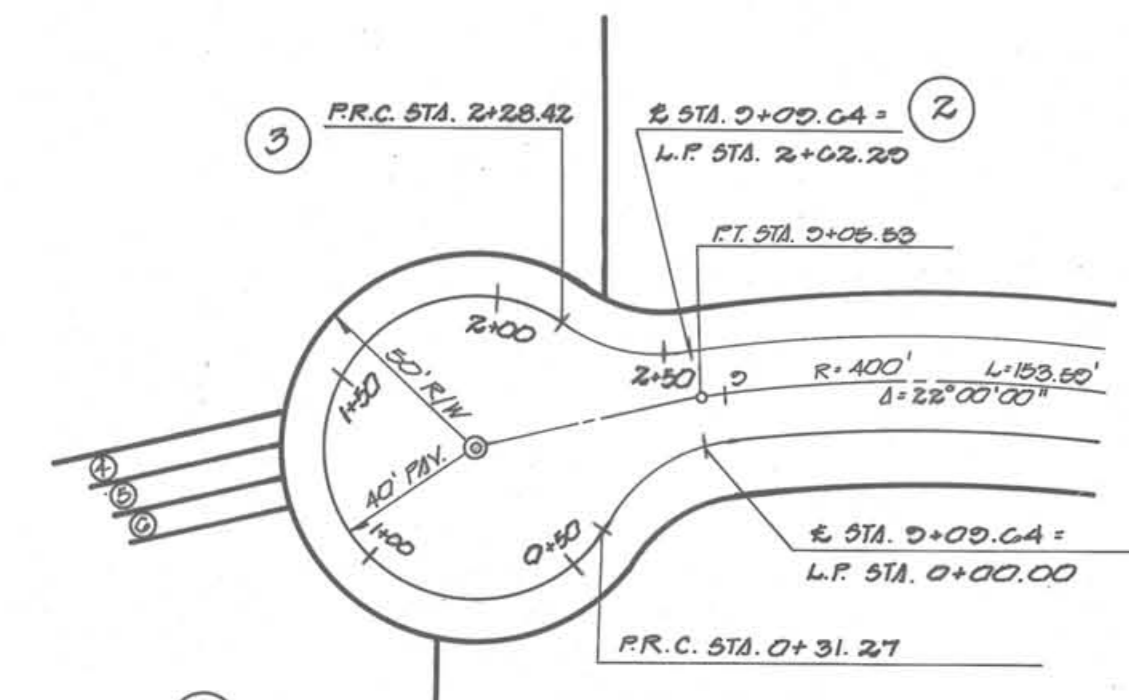
PLWD 471  
BLOCKS 15 & 16  
HOWARD CO., MD.  
DATE: 09-29-94

SHEET 2 OF 2



**CURVE DATA**

CURVE No.	STATIONING	RADIUS	LENGTH	DELTA
1	CASHMARK COURT STA. 0+37.40 to STA. 1+02.24	R = 180.00'	L = 124.70'	Δ = 43°16'10.0"
2	CASHMARK COURT STA. 1+51.04 to STA. 2+06.68	R = 400.00'	L = 199.80'	Δ = 22°00'00"



CUL-DE-SAC DETAIL  
SCALE: 1" = 60'

**OWNER**  
JOHN S. CASHMARK ET AL.  
7075 KINDLER ROAD  
LAUREL, MARYLAND 20723

**DEVELOPER**  
LAND DESIGN AND DEVELOPMENT, INC.  
C/O DONALD REINER  
10805 HICKORY RIDGE ROAD  
COLUMBIA, MARYLAND 21044  
TEL: (410) 740-2100

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
971 BALTIMORE NATIONAL PK. SUITE 100  
ELICOTT CITY, MARYLAND 21828  
410-581-5999