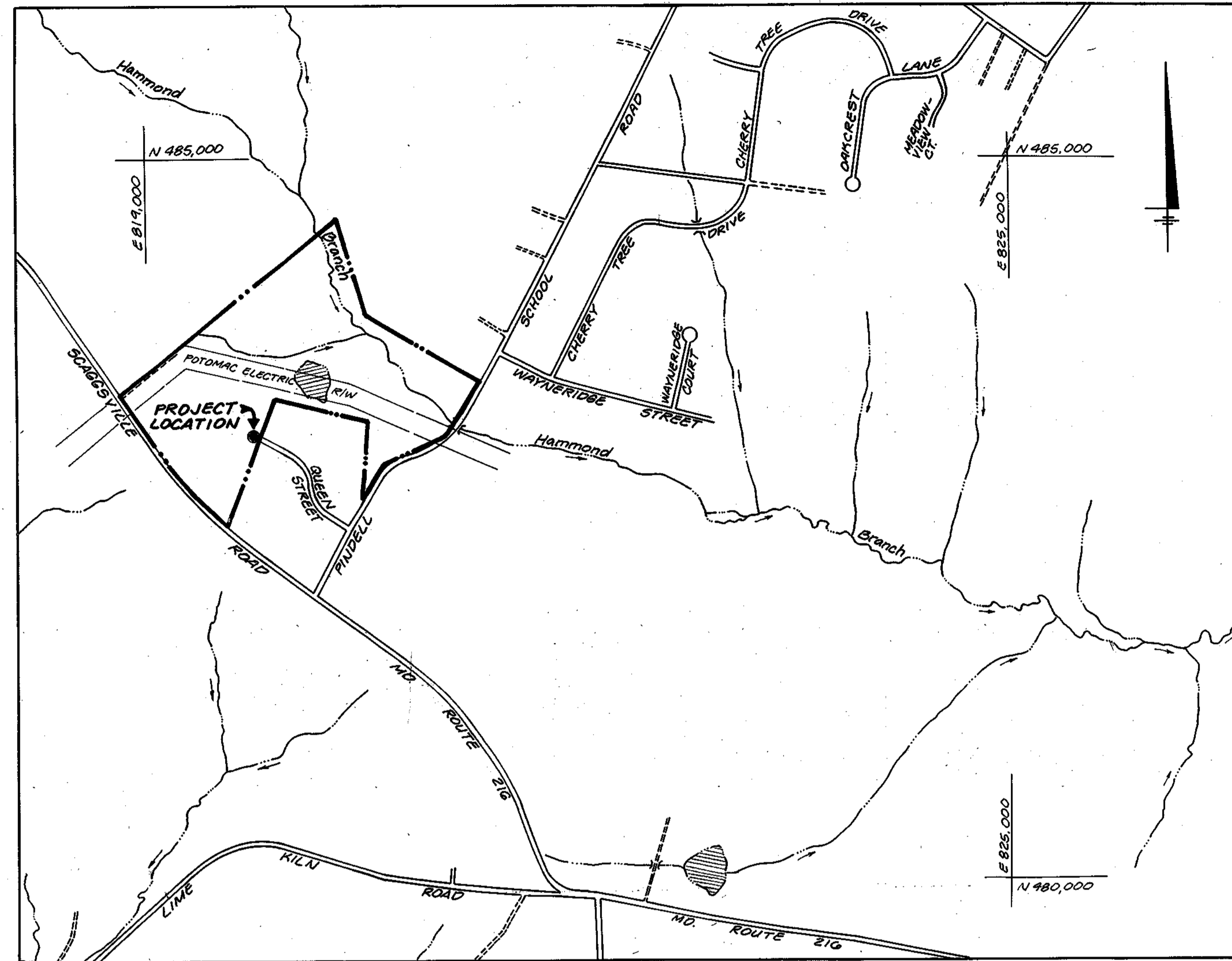


INDEX OF SHEETS	
SHEET NO.	TITLE
1	COVER SHEET
2	PLAN and PROFILE: QUEEN STREET
3	GRADING & SEDIMENT CONTROL PLAN
4	GRADING & SEDIMENT CONTROL PLAN
5	GRADING & SEDIMENT CONTROL PLAN
6	SEDIMENT CONTROL DETAIL SHEET
7	CONSTRUCTION STORMWATER MANAGEMENT DETAILS
8	DRAINAGE AREA & SOILS MAP
9	LANDSCAPE PLAN

LEGEND

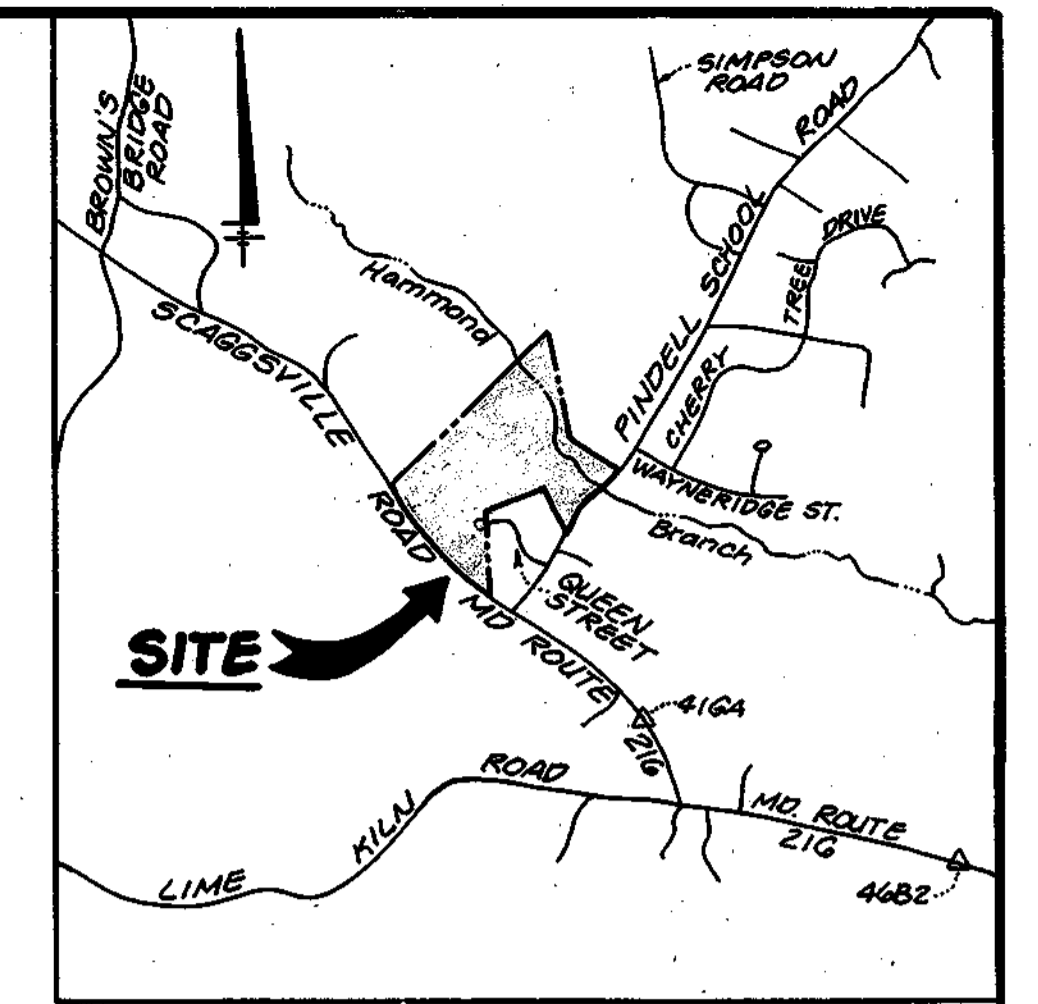
EXISTING CONTOUR	----- 436 -----
PROPOSED CONTOUR	----- 436 -----
LIMIT OF DISTURBANCE	----- 436 -----
SILT FENCE	--- SF --- SF ---
EARTH DIKE	--- A-Z --- ED ---
NONTIDAL WETLAND LIMITS	--- W --- W ---
25' NONTIDAL WETLAND BUFFER	--- 25' ---
EXISTING SEWAGE DISPOSAL EASEMENT	[Hatched Box]
PROPOSED SEWAGE DISPOSAL EASEMENT	[Hatched Box]
65 ABA LINE (UNMITIGATED)	--- 65 ABA ---
Time of Concentration Path	--- T ---
Drainage Divide	--- D ---
Stabilized Construction Entrance	[SCS Box]
Inlet Protection	[IP Box]
Silt Fence	--- SF ---



LOCATION MAP
SCALE: 1" = 600'

BENCHMARKS:

- 1) 41GA-CONCRETE MONUMENT IN OPEN FIELD 5.5' WEST OF MD ROUTE 216 EDGE OF PAVEMENT, 42.8' NORTH OF C&P POLE # 36 AND 73.2' NORTHWEST OF BGE POLE # 315175.
- 2) 46B2-CONCRETE MONUMENT SET ON PROPERTY LINE 0.7 MILES WEST OF MD ROUTE 216 & MD ROUTE 29 INTERSECTION, 35.5' NORTHEAST OF MD ROUTE 216 EDGE OF PAVEMENT ON THE NORTH SIDE OF ROUTE 216, 62.6' NORTHEAST OF BGE POLE ON SOUTH SIDE OF MD ROUTE 216.



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. All construction shall be in accordance with the latest standards and specifications of Howard County Design Manual Vol IV and MSHA standards & specifications.
2. The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection at (410) 313-1800 at least five (5) working days prior to the start of work.
3. The contractor shall notify "Miss Utility" at 1-800-237-7777 at least forty-eight (48) hours prior to any excavation work.
4. Project Background: Location: Fulton, Tax Map 41, Parcel: P10 07 Deed Reference: Liber 1329, Folio 593, Plat Ref. # 10975-10978 Zoning: R-CO-2 (Per 101853 Comprehensive Plan) Election District: 5th Total Tract Area: 41.7162 Ac. plat/lot/10 Previous Subdivisions: WP 92-140, F 03-71, WP 07-36, SP 96-06 Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt. Any damage caused by the contractor to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractor's expense.
5. The existing utilities shown hereon are located from field surveys and construction drawings of record. The approximate location of existing utilities are shown for the contractor's information and convenience. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service.
6. The topography shown hereon is compiled from Howard County Aerial Topography except in areas where site improvements are planned, including the Queen Road Cul-De-Sac, proposed stormwater management and, use-in-common driveway/cul-de-sac, and existing pond. Topography for site improvement areas was field run by LDE, Inc. in April, 1997.
7. Horizontal and vertical data are related to the Maryland State Plane Coordinate System as projected from Howard County geodetic control station Nos. 41GA and 46B2 (NAD 27).
8. Boundary shown hereon taken from recorded plat Nos. 10975-10978. These plats were based on a field run monumented boundary survey performed by Weston Cook, Jr., Reg. L.S. No. 5144 (L.S. 1984) and Associates on or about May 1984. The nontidal wetlands shown are field located from a delineation prepared by Exploration Research, Inc. dated August 21, 1992.
9. A Joint Federal/State permit application has been submitted to MDE for the purpose of obtaining a permit to conduct activities in nontidal wetlands, wetland buffers and "waters of the U.S.", as regulated under sections 401 and 404 of the Clean Water Act. Permit # 96-NT-0552 / Tracking # 09 5964-45-14.
10. The 100 year floodplain shown hereon as both an existing "Prepared Easement" and a proposed "100 Year Floodplain, Drainage and Utility Easement" is from a study titled "Floodplain Study-Malcolm Property" performed by LDE, Inc. and approved under SP-96-09 on January 8, 1997. Base data for this study obtained from the Howard County Floodplain Branch Floodplain Study, Capital Project D-1026.
11. Stormwater Management provided for the proposed Queen Street Cul-De-Sac only. Lots are exempt from stormwater management since all lots exceed 2.0 acres. Quantity management shall be provided by detention.
12. Quality management provided by the Home Owners Association.
13. All hydraulic data is for the 10-year storm unless otherwise noted.
14. See sheet 6 of 9 for construction sequence.
15. 95% compaction in all fill areas shall be determined by AASHTO T-100.
16. Geotechnical report compiled by Hill's Carnes Engineering Associates, Inc. Dated February 24, 1998.
17. Note Study compiled by LDE, Inc. dated July, 1996 and approved under SP-96-06.
18. Forest Stand Delineation and Forest Conservation Plan compiled by Dennis J. Labaree, M.S., & Associates, Dated February 12, 1996 and approved under SP-96-06.
19. The existing drawings, wells and sewerage disposal areas located on proposed lots 4, 5 & 6 shall remain.
20. The existing temporary 2" egress and egress easement to existing lot 2 shall be permanently replaced by 24' Private Access Easement for lots 5, 10, & 11, as shown on this plan and corresponding plat.
21. THE TREE PROTECTION FENCE SHOWN HEREON SHALL BE PRIVATELY OWNED AND MAINTAINED.
22. ALL CONDITIONS SET FORTH IN MDE PERMIT # 96-NT-0552 SHALL BE COMPLIED WITH UNDER THIS PLAN. MDE PERMIT SHALL BE ISSUED PRIOR TO RECONSTRUCTION OF FINAL PLAT.
23. By letter dated September 3, 1996, PEPCO granted approval for access to proposed lots 8, 9 & 10 via private access easement. Construction of a small private stormwater management facility within the 75' Tree Maintenance Easement. Installation of private wells for lots 8, 10, & 11 within the 75' Tree Maintenance Easement, and a right of entry request to upgrade the existing farm pond to current standards. The above approvals are subject to review of these final plans by PEPCO.
24. The existing farm pond will be removed.
25. All erosion and sediment control measures shown shall comply with the 1994 Standards and Specifications for Soil Erosion and Sediment Control in Maryland.
26. This plan subject to WP-92-140. The Planning Director granted approval on April 13, 1992 to waive sections 16.13(F) and 16.11(C)(2) to permit driveway access onto MD Route 216 (a minor arterial) for existing lots 1 & 3. Section 16.11(C)(2) waive the minimum public road frontage for existing lot 3 created by the subdivision of lot 3 to Prindle School Road via an access easement, and section 16.11(C)(1) to allow a pipeline for lot 2 to exceed 800 ft. in length subject to conditions. The Planning Director granted approval on September 10, 1992 to waive section 16.11(C)(4) to allow the pipeline width for lot 2 to be reduced from 50 ft. to 0 ft.
27. This plan subject to WP-07-36. The Planning Director granted approval on October 18, 1996 to waive Section 16.12(C)(4) & (5) which requires that all single family detached lots have a minimum frontage of 20 ft/or single pipeline or non-pipeline lots with no subdivision potential on a public road and which requires that adjacent pipeline lots which share a common drive have sufficient frontage (collectively) to meet the driveway requirements of the Design Manual. Directors approval subject to conditions.
28. This plan subject to WP-07-36 (Reconsideration). The Planning Director granted approval on June 23, 1997 to waive Section 16.12(C)(2) and (3) which requires that a common driveway have sufficient frontage (collectively) to meet the driveway requirements of the Design Manual. Directors approval subject to conditions. The purpose of this reconsideration was to allow proposed lots 10 & 11 to drive access from Queen Street via the 24' lot private access easement to lot 8 & 9.
29. All private use-in-common driveways shall meet the following specifications:
 - 16 foot width
 - 1/2" compacted crusher run base with "tar and chip" coating
 - Minimum turning radius of 45 feet
 - Designed to support vehicles with a gross weight of 25 tons.
 - 12 feet of overhead clearance
 - Maintained for all weather use
 - Maximum grade is 10%, with the durable and stabilized grade 50%
 - Where one (1) driveway serves more than one (1) lot, a house number sign must be placed at each lot entrance and a range of street address house numbers sign where the common driveway intersects with the main road.
30. The stormwater management infiltration/detention pond shall be privately owned and maintained by the Home Owners Association. The stormwater management structure to be privately maintained by the Home Owners Association. The HOA will perform routine maintenance and will be responsible for yearly inspections, mowing once a year and correcting any structural problems that arise.
31. This plan subject to WP-96-39. The Planning Director granted approval on December 1, 1997 to waive Section 16.13(C)(2)(b) which requires that when a property owner owns land on one side of a minor collector, the owner shall construct one side of the road to designated pavement width. The request applies to 1, 60' linear feet of road frontage on Prindle School Road. The Planning Director decided a request to waive Section 16.13(C)(2)(b), which requires payment of a fee-in-lieu of making road improvements. An appeal to the Howard County Board of Appeals was filed on December 30, 1997.
32. THE TREE PROTECTION FENCE SHOWN HEREON SHALL BE PRIVATELY OWNED AND MAINTAINED.
33. ALL CONDITIONS SET FORTH IN MDE PERMIT # 96-NT-0552 SHALL BE COMPLIED WITH UNDER THIS PLAN. MDE PERMIT SHALL BE ISSUED PRIOR TO RECONSTRUCTION OF FINAL PLAT.

ROAD & STORM DRAIN CONSTRUCTION PLANS

MALCOLM PROPERTY

LOTS 4 - 12

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

"AS-BUILT" CERTIFICATION

I hereby certify that the construction on this plan was constructed as shown on the "As-Built" plans and meets the standards and specifications.

Bruce D. Burton
Signature
P.E. No. 19184
Date 1/29/03

Certify means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the Engineer nor does an Engineer's certification relieve any other party from meeting requirements imposed by contract, employment or means, including meeting commonly accepted industry practices.

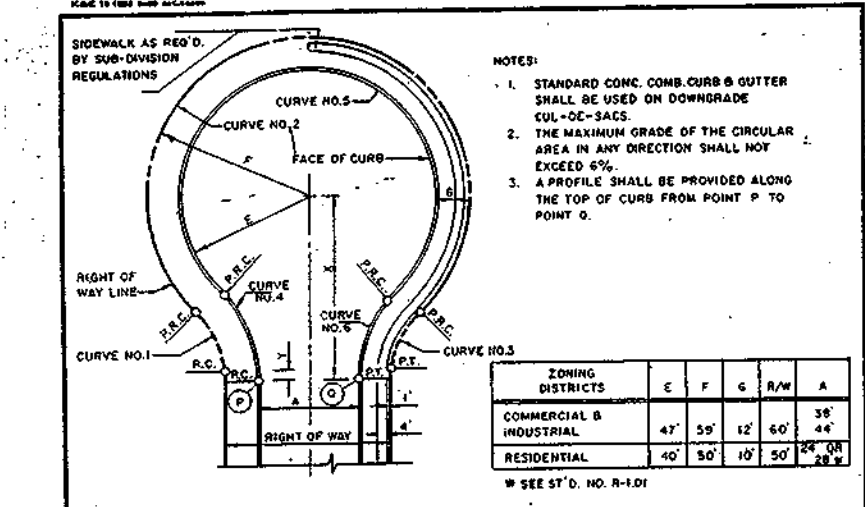
"AS-BUILT"

APPROVED: DEPARTMENT OF PLANNING AND ZONING <i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 9/16/98		THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS. <i>[Signature]</i> CHIEF, SOIL CONSERVATION SERVICE DATE: 8/13/98		ENGINEER'S CERTIFICATE "I HEREBY CERTIFY THAT THE EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND KNOWLEDGEABLE OPINION BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." <i>[Signature]</i> SIGNATURE OF ENGINEER DATE: 8/13/98		APPROVED: <i>[Signature]</i> CHIEF, BUREAU OF HIGHWAYS DATE: 9-16-98		
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. <i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 7/24/98		DEVELOPER'S CERTIFICATE "I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS IS DEEMED NECESSARY." <i>[Signature]</i> SIGNATURE OF DEVELOPER DATE: 8/13/98		LDE, INC. 9250 Rumsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)		DESIGN: SDH DRAWN: KBW CHECK: BDB DATE: MAY, 1997 REV. FEB, 1998		COVER SHEET MALCOLM PROPERTY LOTS 4-12 A RESUBDIVISION OF LOTS 1, 2, and 3 TAX MAP 41 BLOCK 13 & 19 PARCEL G7 5TH ELECTION DISTRICT - HOWARD COUNTY MD. PREVIOUS SUBMITTALS: WP92-140, F43-71, WP97-36, SP96-06 JOB No. 1 of 9 91-184 FILE No. F97-172

KINGS MANOR
PLATBOOK 9 FOLIO 52
ZONED: RR-DEO

STREET TREE TABLE				
SYMB.	COMMON NAME	BOTANICAL NAME	QTY	SIZE
⊕	Willow Oak	Quercus Phellos	8	2"-2 1/2" Cal B&B 40' o.c.

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-2	RESIDENTIAL ZONES LOCAL, CUL-DE-SAC, ALLEYS AND PRIVATE DRIVEWAYS, DRIVEWAYS	1 1/2" BIT. CONC. SURFACE 3" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 3" BIT. CONC. BASE 1" CRACKER RUN BASE COURSE 1" COURSED 4" GRANULAR BASE COURSE
P-1	APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCK	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE 1" CRACKER RUN BASE COURSE 1" COURSED 4" GRANULAR BASE COURSE



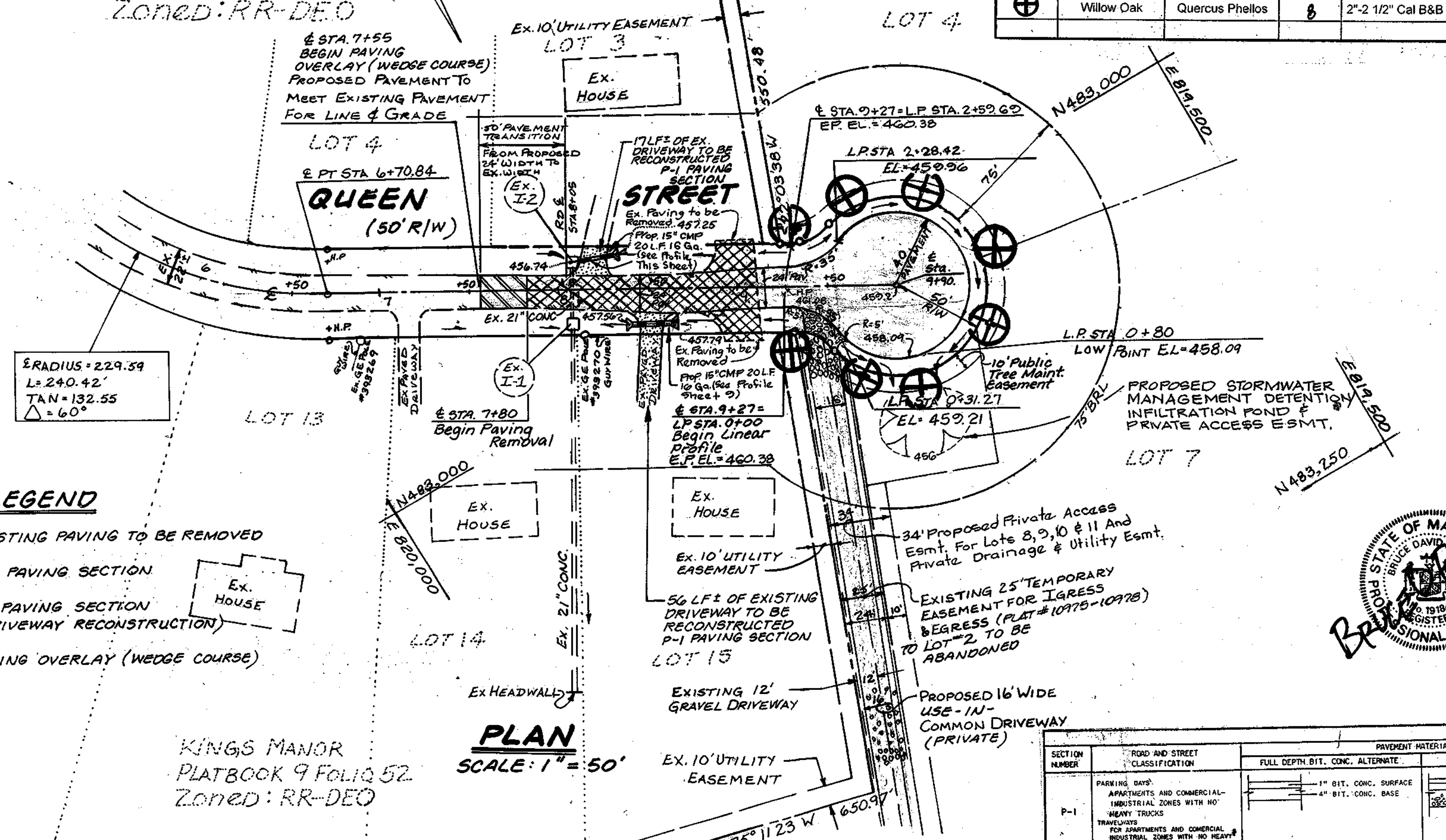
APPROVED: DEPARTMENT OF PLANNING AND ZONING.
DATE: 9/18/98
Cindy Hamata
CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: Department of Planning and Zoning.
Date

APPROVED: Department of Public Works for Storm Drainage Systems and Floods.
Date

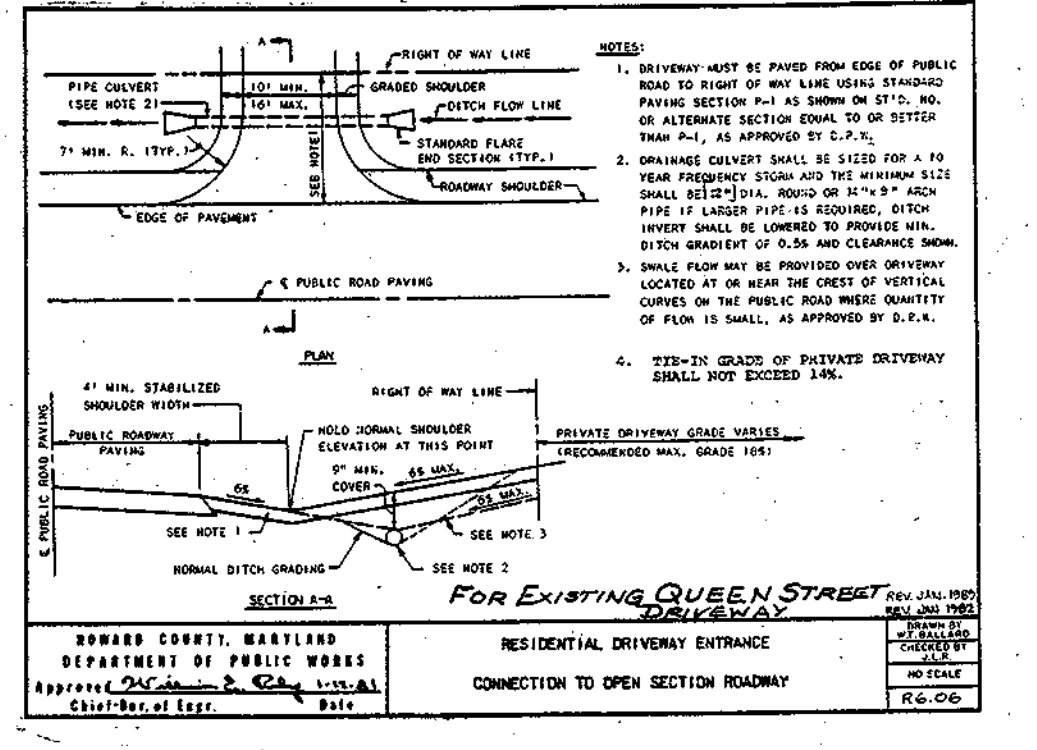
APPROVED: Chief of Land Development Division.
Date

APPROVED: Chief Bureau of Engineering.
Date: 9-16-98
Andrew M. Decker

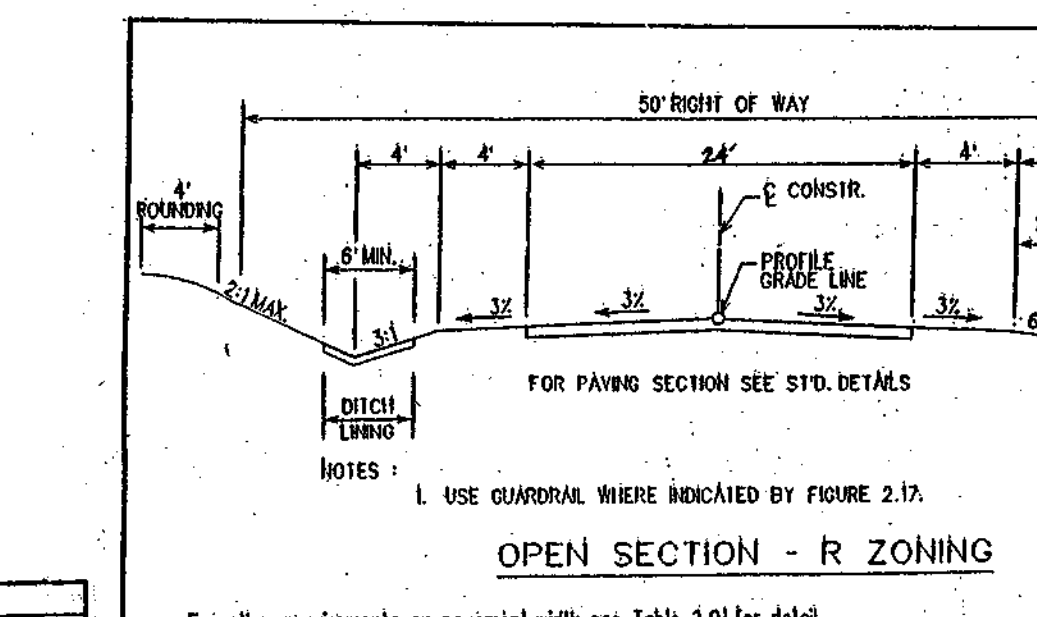


PAVING LEGEND

- EXISTING PAVING TO BE REMOVED
- P-2 PAVING SECTION
- P-1 PAVING SECTION (DRIVEWAY RECONSTRUCTION)
- PAVING OVERLAY (WEDGE COURSE)



CURVE DATA		COMMERCIAL-INDUSTRIAL (APPROACH)		COMMERCIAL-INDUSTRIAL (APPROACH)	
STATION	LENGTH	STATION	LENGTH	STATION	LENGTH
1+00	100	1+00	100	1+00	100
2+00	200	2+00	200	2+00	200
3+00	300	3+00	300	3+00	300
4+00	400	4+00	400	4+00	400
5+00	500	5+00	500	5+00	500
6+00	600	6+00	600	6+00	600
7+00	700	7+00	700	7+00	700
8+00	800	8+00	800	8+00	800
9+00	900	9+00	900	9+00	900
10+00	1000	10+00	1000	10+00	1000



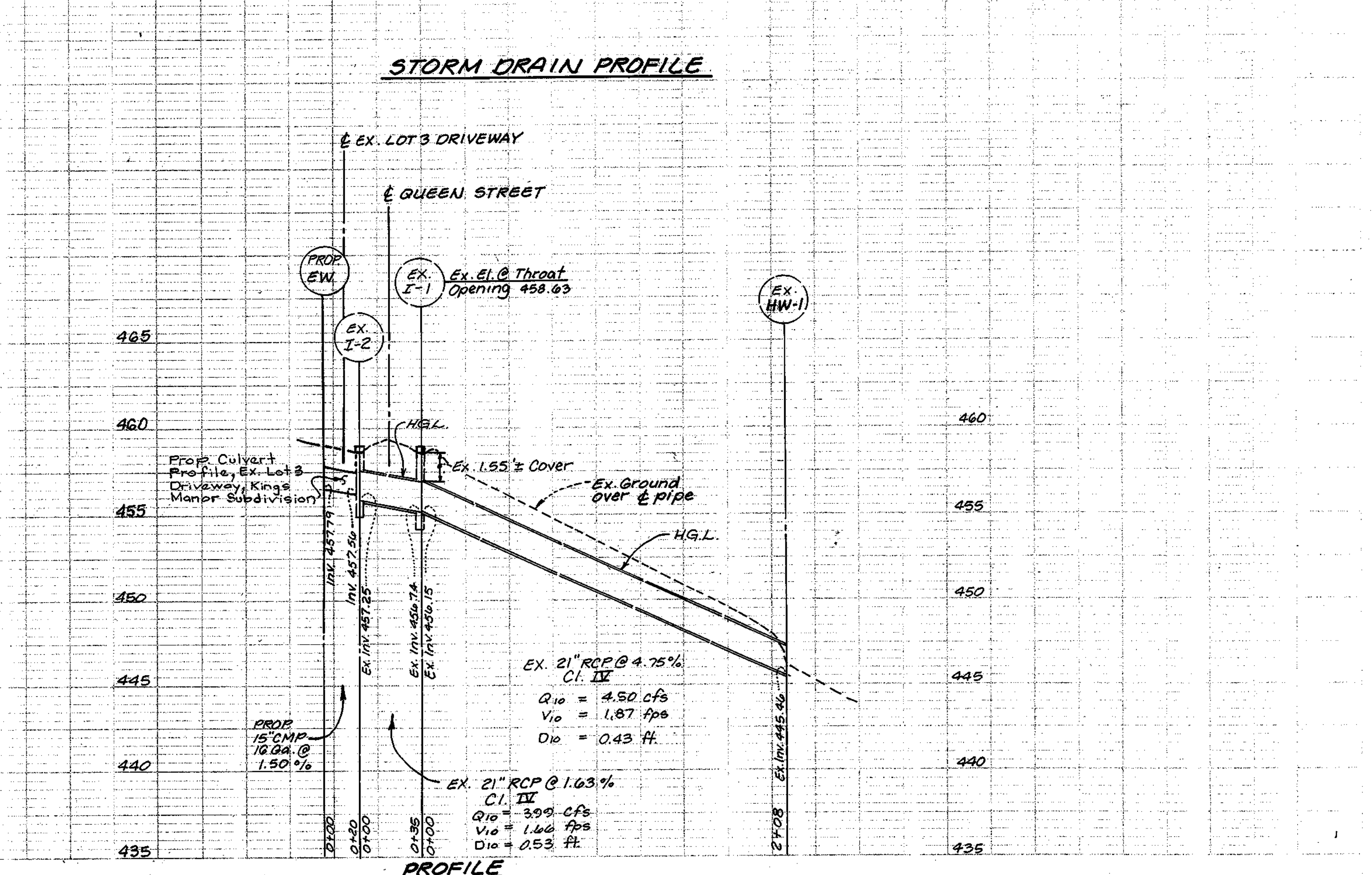
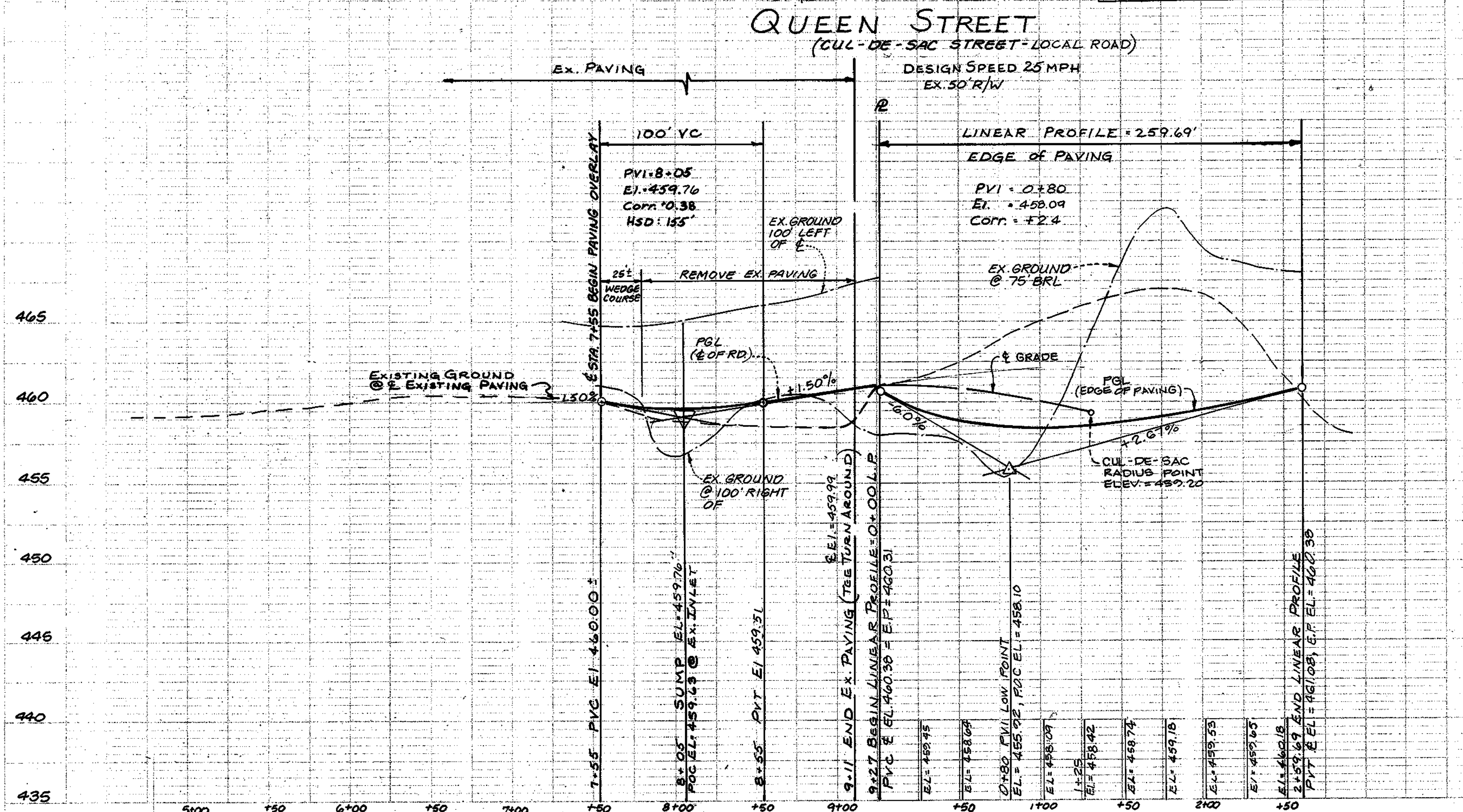
"AS-BUILT" 1/28/03

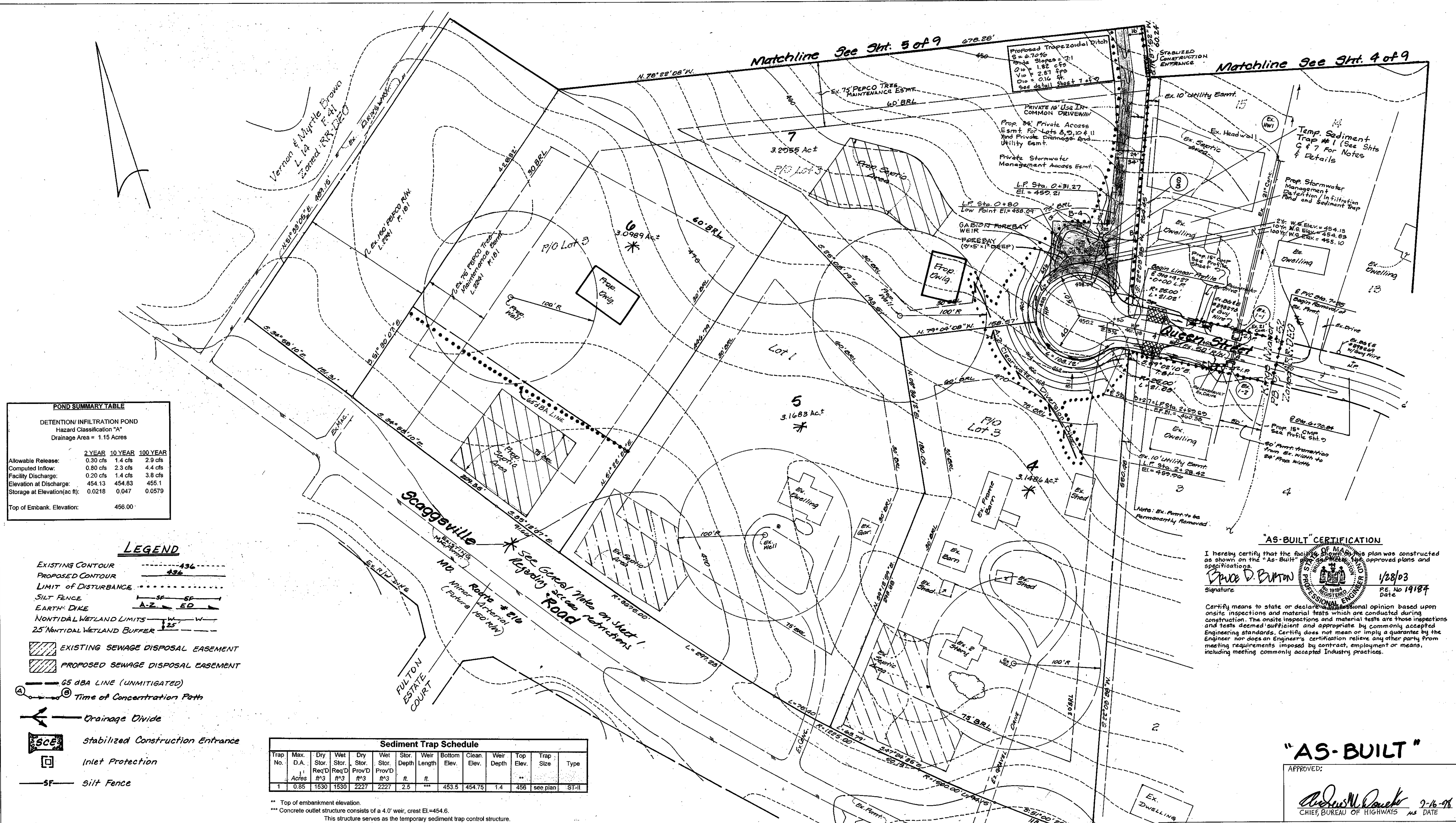
LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: S.D.H.
DRAWN: S.E.L.
CHECKED: B.D.B.
DATE: 5-97
REV. 08

PLAN and PROFILE
**QUEEN STREET
MALCOLM PROPERTY**
LOTS 4-12
A RESUBDIVISION OF LOTS 1, 2 & 3
Tax Map 41 Block 13 & 19 Parcel 07
5th Election District Howard County, MD.
Previous Submittals: WP42-140, F43-71, WP47-36, SP46-06
Owner/Developer: Dennis B. & Van Malcolm
2001 Briggs Chaney Road
Silver Spring, Maryland 20904
Phone: (301) 384-8489

SCALE: AS SHOWN
DRAWING: 2 of 9
JOB NO.: 91-184
FILE NO.: F 97-172





POND SUMMARY TABLE

DETENTION/INFILTRATION POND
Hazard Classification "A"
Drainage Area = 1.15 Acres

	2 YEAR	10 YEAR	100 YEAR
Allowable Release:	0.30 cfs	1.4 cfs	2.9 cfs
Computed Inflow:	0.80 cfs	2.3 cfs	4.4 cfs
Facility Discharge:	0.20 cfs	1.4 cfs	3.8 cfs
Elevation at Discharge:	454.13	454.83	455.1
Storage at Elevation(ac ft):	0.0218	0.047	0.0579
Top of Embank. Elevation:	456.00		

- LEGEND**
- EXISTING CONTOUR ---436---
 - PROPOSED CONTOUR ---436---
 - LIMIT OF DISTURBANCE ---436---
 - SILT FENCE ---SF---
 - EARTH DIKE ---A-Z--- ED ---
 - NONTIDAL WETLAND LIMITS ---W--- W ---
 - 25' NONTIDAL WETLAND BUFFER ---25---
 - EXISTING SEWAGE DISPOSAL EASEMENT [Hatched Box]
 - PROPOSED SEWAGE DISPOSAL EASEMENT [Hatched Box]
 - 65 dBA LINE (UNMITIGATED) ---65---
 - Time of Concentration Path [Arrow]
 - Drainage Divide [Arrow]
 - Stabilized Construction Entrance [SCS]
 - Inlet Protection [Square]
 - Silt Fence [SF]

Sediment Trap Schedule

Trap No.	Max. D.A. Acres	Dry Stor. Req'D ft³	Wet Stor. Req'D ft³	Dry Stor. Prov'D ft³	Wet Stor. Prov'D ft³	Stor. Depth ft.	Weir Length ft.	Bottom Elev. ft.	Clean Elev. ft.	Weir Depth ft.	Top Elev. ft.	Trap Size	Type
1	0.85	1530	1530	2227	2227	2.5	***	453.5	454.75	1.4	456	see plan	ST-11

** Top of embankment elevation.
*** Concrete outlet structure consists of a 4.0' weir, crest EI=454.6.
This structure serves as the temporary sediment trap control structure.

"AS-BUILT" CERTIFICATION

I hereby certify that the work shown on this plan was constructed as shown on the "As-Built" drawings, approved plans and specifications.

Signature: *Bruce D. Burton* Date: 1/28/03
Professional Engineer, P.E. No. 19184

Certify means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the Engineer nor does an Engineer's certification relieve any other party from meeting requirements imposed by contract, employment or means, including meeting commonly accepted industry practices.

"AS-BUILT"

APPROVED: *Dennis R. Van Malcolm* 2-16-03
CHIEF, BUREAU OF HIGHWAYS

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: S.D.H. SCALE: 1" = 50'

DRAWN: B.E.I. DRAWING: 3 of 9

CHECKED: B.D.B. JOB NO.: 91-184

DATE: 5/97 FILE NO.: F97-172

Owner/Developer: Dennis R. & Van Malcolm
2001 Briggs Chaney Road
Silver Spring, Maryland 20904
Phone: (301) 384-8489

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Charles Hamilton 2/13/98
CHIEF, DIVISION OF LAND DEVELOPMENT AND RECREATION

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

Chief Simmons 2/12/98
SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Plutner 2/13/98
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THE SOIL EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

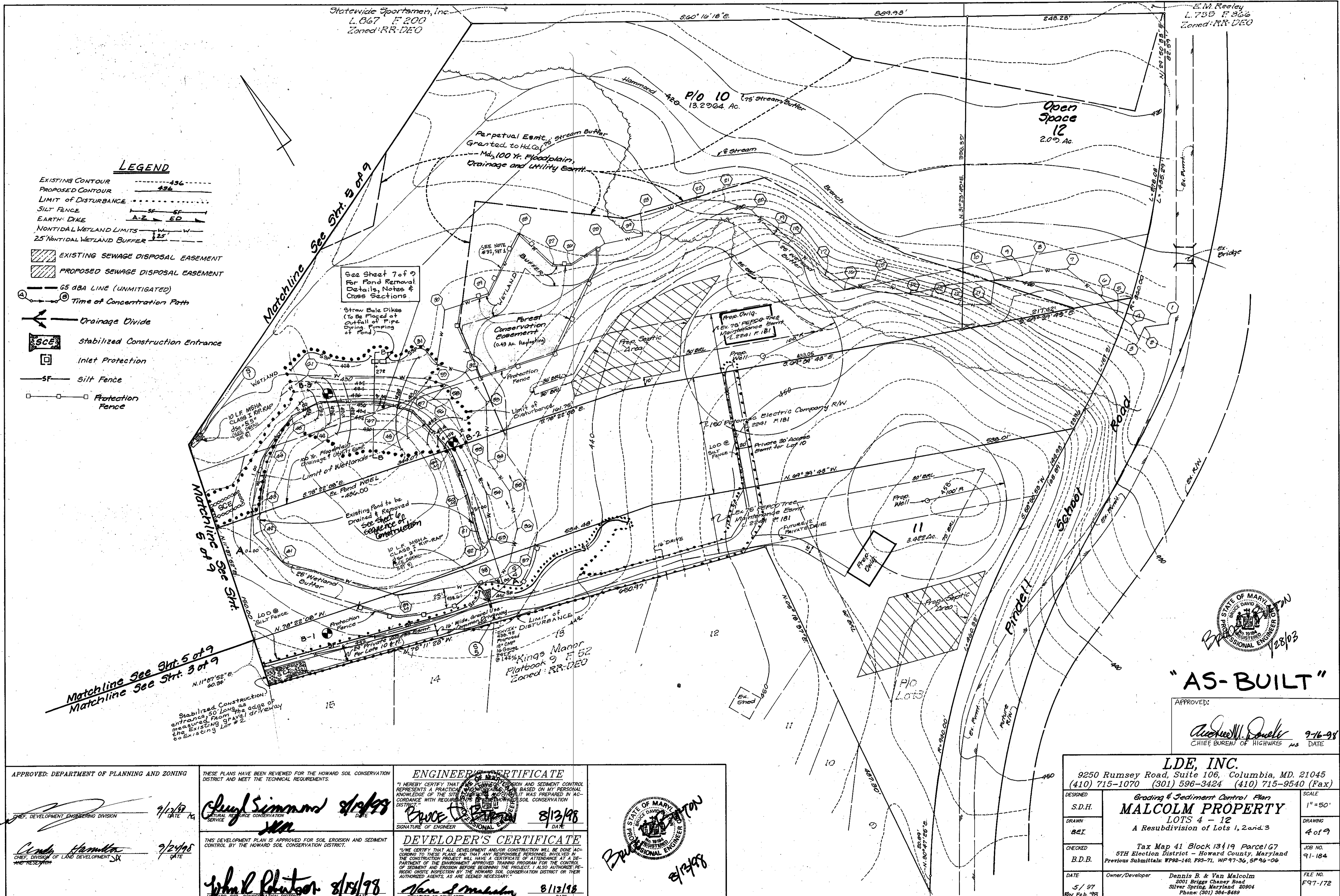
Bruce D. Burton 8/13/98
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Van S. Malcolm 8/13/98
SIGNATURE OF DEVELOPER

Professional Engineer Seal for Bruce D. Burton, No. 19184, State of Maryland.

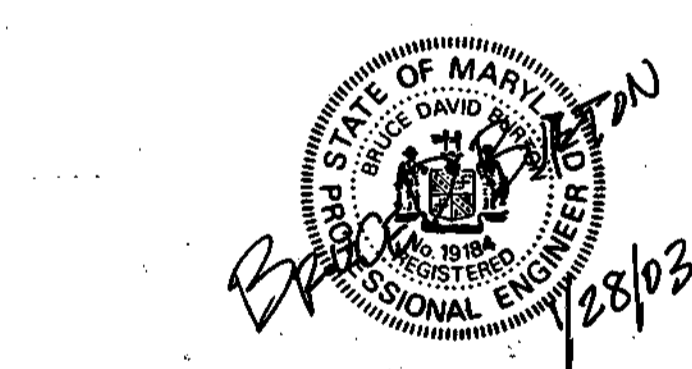


LEGEND

- EXISTING CONTOUR 436
- PROPOSED CONTOUR 436
- LIMIT OF DISTURBANCE
- SILT FENCE SF
- EARTH DIKE A-Z ED
- NONTIDAL WETLAND LIMITS W W
- 25' NONTIDAL WETLAND BUFFER 25'
- EXISTING SEWAGE DISPOSAL EASEMENT
- PROPOSED SEWAGE DISPOSAL EASEMENT
- 65 dBA LINE (UNMITIGATED)
- Time of Concentration Path
- Drainage Divide
- SCE Stabilized Construction Entrance
- Inlet Protection
- SF Silt Fence
- Protection Fence

E.M. Reiley
L.735 F.366
Zoned: RR-DEO

Statewide Sportsmen, Inc.
L.667 F.200
Zoned: RR-DEO



"AS-BUILT"

APPROVED:
Audrey M. Daulton 9/16/98
CHIEF BUREAU OF HIGHWAYS MS DATE

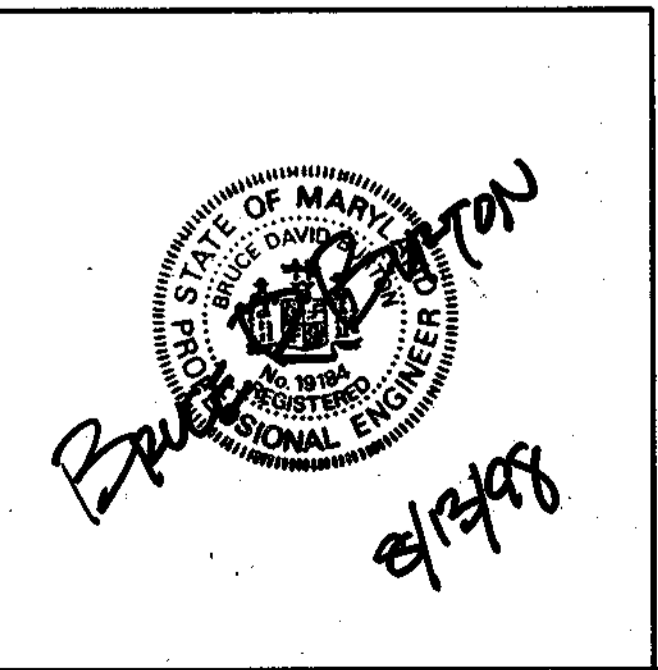
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 9/17/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
[Signature] 8/19/98
NATURAL RESOURCE CONSERVATION SERVICE

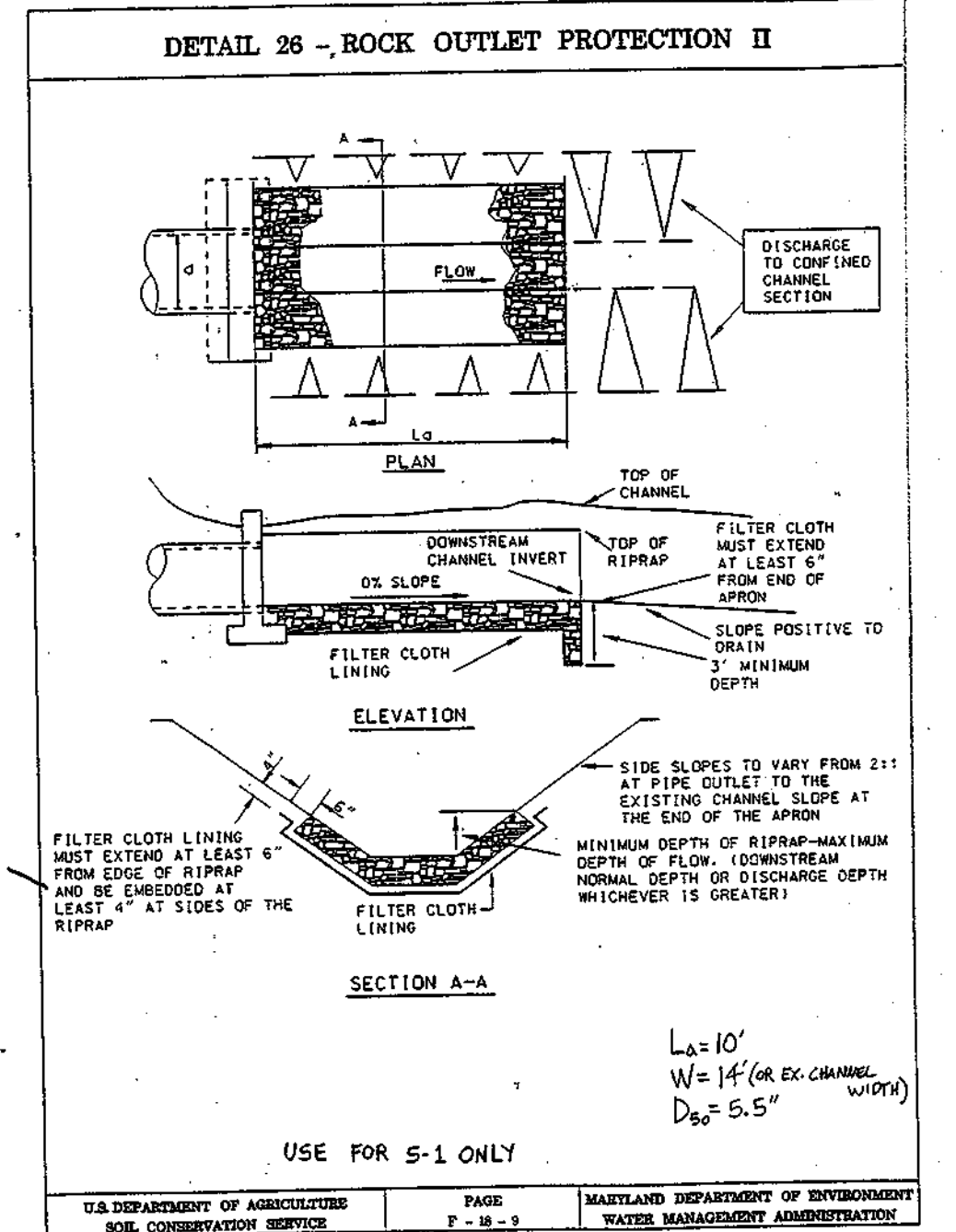
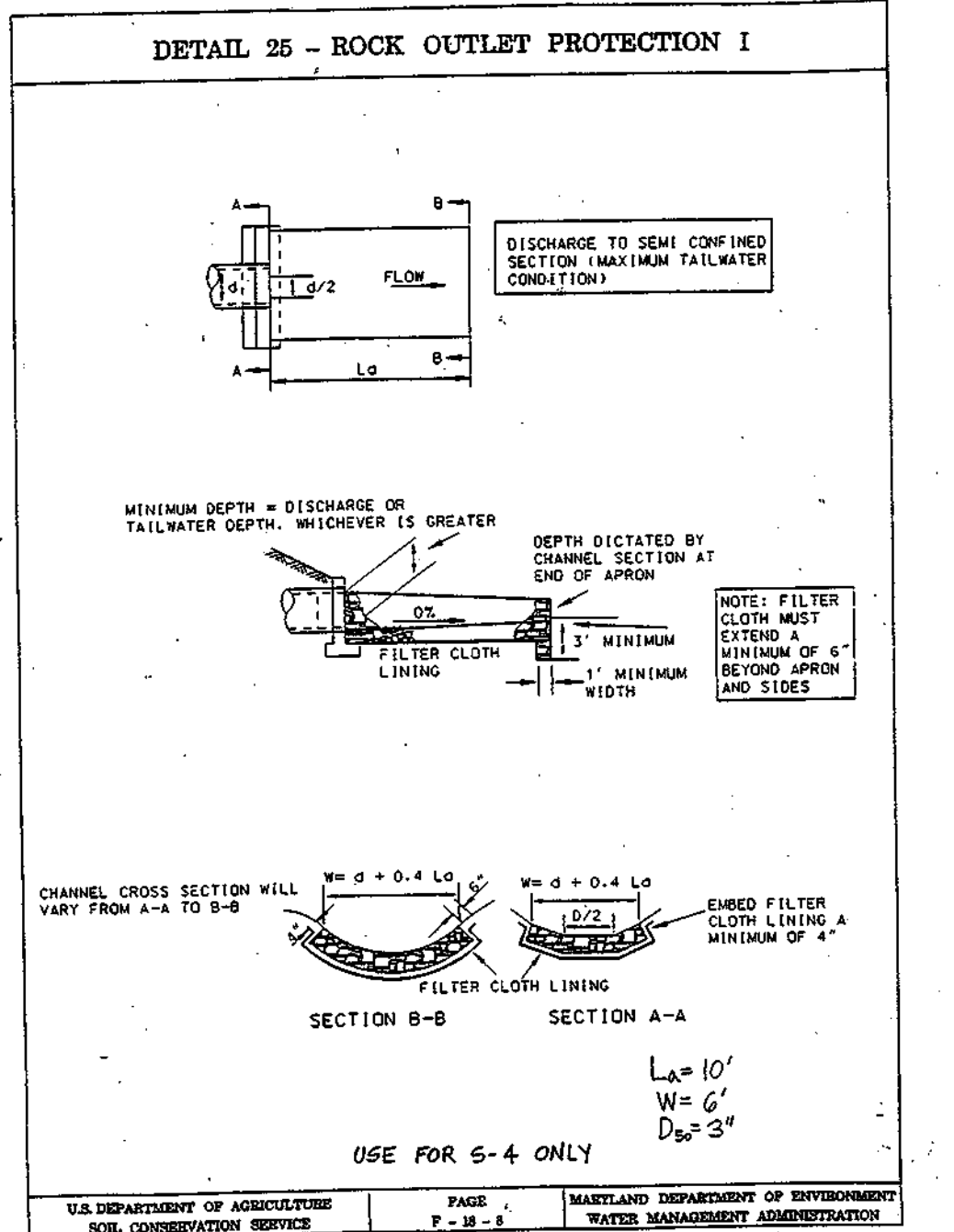
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8/19/98
HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
"I HEREBY CERTIFY THAT THE EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE SOLUTION BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
[Signature] 8/13/98
SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE
"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PRELIMINARY CRISTE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
[Signature] 8/13/98
SIGNATURE OF DEVELOPER



DESIGNED S.D.H.		LDE, INC. 9250 Rumsey Road, Suite 106, Columbia, MD 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)		SCALE 1" = 50'
DRAWN B.E.I.		Grading & Sediment Control Plan MALCOLM PROPERTY LOTS 4 - 12 A Resubdivision of Lots 1, 2 and 3		DRAWING 4 of 9
CHECKED B.D.B.		Tax Map 41 Block 13419 Parcel 167 5TH Election District - Howard County, Maryland Previous Submittals: WP92-140, F93-71, WP97-36, SP96-06		JOB NO. 91-184
DATE 5/97 Rev. Feb. 98		Owner/Developer Dennis B. & Van Malcolm 2001 Briggs Chaney Road Silver Spring, Maryland 20904 Phone: (301) 584-8489		FILE NO. F97-172



*Note: See off-site Drainage Area Map for remainder of Drainage Area.

SOILS LEGEND

Symbol	Name	Slope/Characteristics	Hydrologic Soil Type
ChB2	Chickasha Silt Loam	0-8%, Mod. Eroded	B
ChA	Chickasha Silt Loam	0-8%	B
ChB2	Chickasha Silt Loam	0-8%, Mod. Eroded	B
ChC3	Chickasha Silt Loam	8-18%, Severely Eroded	B
CuB	Camden Silt Loam Local Alluvium	0-6%	B
DeB2	Delanco Silt Loam	0-8%, Mod. Eroded	B
ErCB	Elbrook Silt Loam	0-15%, Severely Eroded	B
ErCB	Elbrook Silt Loam	0-8%, Mod. Eroded	B
GIB2	Glenely Loam	0-8%, Mod. Eroded	B
GIC2	Glenely Loam	0-8%	B
GrB2	Glenville Silt Loam	0-8%, Mod. Eroded	B
Kn	Kinkora Silt Loam	0-8%, Mod. Eroded	B
MIB2	Manor Loam	0-15%, Severely Eroded	B
MIB2	Manor Loam	0-15%	B
MIB2	Manor Loam	15-25%, Severely Eroded	B
GIC3	Glenely Loam	8-18%, Severely Eroded	B
EKA	Elbrook Silt Loam	0-8%	B
ErCB	Elbrook Silt Loam	0-8%, Mod. Eroded	B

APPROVED: DEPARTMENT OF PLANNING AND ZONING

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

ENGINEER'S CERTIFICATE

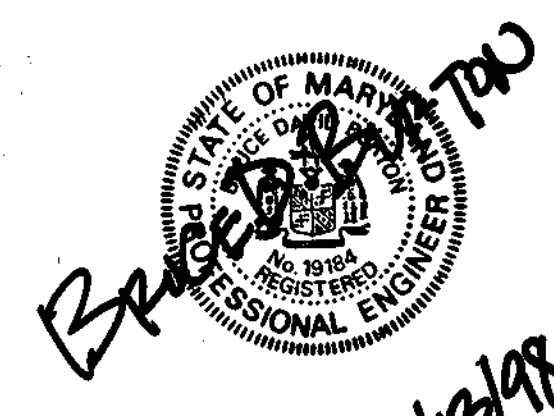
"I HEREBY CERTIFY THAT THE SOIL EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND SOILS AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

BRUCE D. BURTON 8/13/98
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

John R. Blanton 8/13/98
SIGNATURE OF DEVELOPER DATE



APPROVED: [Signature] 9-16-98
CHIEF, BUREAU OF HIGHWAYS H3 DATE

9/2/98 DATE
Cindy Hamatta 9/16/98 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RECORDS

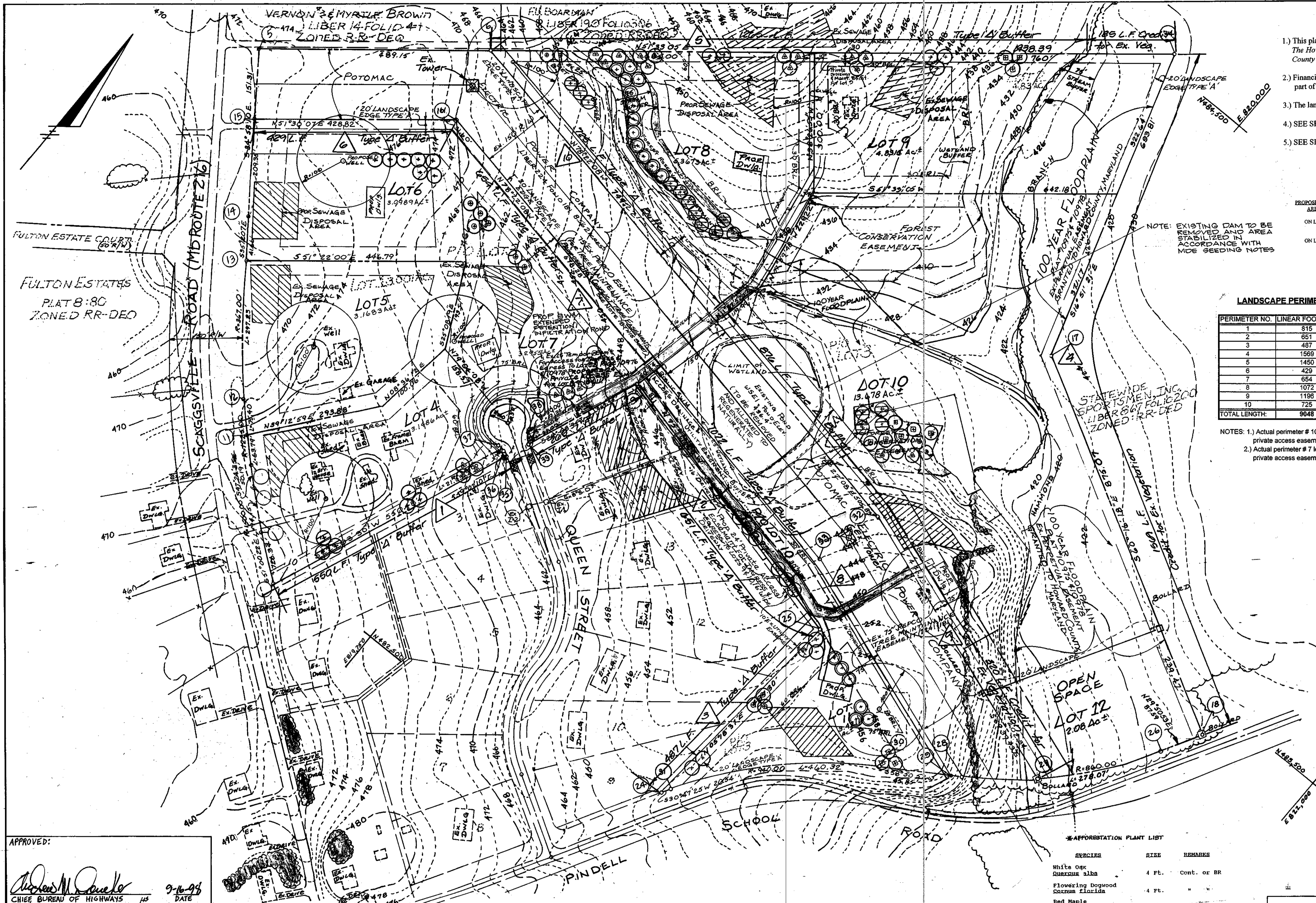
LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DRAINAGE AREA & SOILS MAPS
MALCOLM PROPERTY
LOTS 4 - 12
A Resubdivision of Lots 1, 2, and 3

Tax Map 41 Block 1349 Parcel 67
5th Election District - Howard County, Maryland
Previous Submittals: W92-140, P93-71, W97-36, P96-06

Owner/Developer: Dennis B. & Van Malcolm
2001 Briggs Chaney Road
Silver Spring, Maryland 20904
Phone: (301) 384-8489

SCALE: 1" = 100'
DRAWING: 8 of 9
JOB NO.: 91-184
FILE NO.: F-97-172



LANDSCAPE NOTES

- 1) This plan has been prepared in accordance with the provisions of section 16.124 of The Howard County subdivision and Land Development Regulations and The Howard County Landscape Manual.
- 2) Financial surety for the required landscaping shown on this plan has been posted as part of the Developers agreement surety in the amount of \$11,600.00.
- 3) The landscape edges shall be maintained by the Homeowners Association.
- 4) SEE SHEET 2 OF 9 FOR STREET TREE SCHEDULE.
- 5) SEE SHEET 7 OF 9 FOR PLANTING DETAILS AND NOTES.

AFFORESTATION CREDIT FOR PLANTING LANDSCAPE SIZED TREES IN FCT TO MEET FOREST CONSERVATION OBLIGATIONS

PROPOSED AFFORESTATION AREA/ACREAGE	NO. TREES REQUIRED TO MEET FOREST CONSERVATION OBLIGATIONS	LANDSCAPE SIZED TREES PROPOSED	NO. WHIPS REQUIRED TO MEET OBLIG.
ON LOT # 9/10.40 AC	100-2" CAL TREES/AC 350 WHIPS/AC	15 TREES	87 WHIPS
ON LOT # 7/10.60 AC	100-2" CAL TREES/AC 350 WHIPS/AC	21 TREES	129 WHIPS
		TOTAL: 36 TREES	

NOTE: EXISTING DAM TO BE REMOVED AND AREA STABILIZED IN ACCORDANCE WITH WIDE SEEDING NOTES

LANDSCAPE PERIMETER TABLE

PERIMETER NO.	LINEAR FOOTAGE	EDGE TYPE
1	815	A
2	651	A
3	487	A
4	1569	A
5	1450	A
6	429	A
7	654	A
8	1072	A
9	1196	A
10	725	A
TOTAL LENGTH:	9048	

NOTES: 1.) Actual perimeter # 10 length is 749 ft - 24 ft private access easement = 725 ft.
2.) Actual perimeter # 7 length is 678 ft. - 24 ft. private access easement = 654 ft.

LANDSCAPE TYPE	LINEAR FOOTAGE	CREDIT
Linear Feet of Roadway	9048 L.F.	YES
Credit for Existing Vegetation (Yes, No, Linear Feet)	2074 L.F.	NO
Credit for Wall, Fence or Berm (Yes, No, Linear Feet)		NO
Number of Plants Required (Shade Trees 1:100, Evergreen Trees 1:500, Shrubs 1:100)	116 Trees	

Comments: 1) Credit for 1569 L.F. Ex Veg. Perimeter; 2) Credit for 1051 L.F. Ex Veg. Perimeter; 3) Credit for 320 L.F. Ex Veg. Perimeter.

Note: Complex projects may require expansion of the schedule to accommodate multiple land uses on-site or on adjacent properties.

PERIMETER PLANTING SCHEDULE

NO.	KEY	BOTANICAL / COMMON NAME	SIZE	COMMENT
20	⊙	Acer rubrum Red Maple	2 1/2" - 3" cal.	B&B
20	+	Quercus palustris Pin Oak	2 1/2" - 3" cal.	B&B
20	⊙	Quercus rubra Red Oak	2 1/2" - 3" cal.	B&B
20	⊙	Quercus phellos Willow Oak	2 1/2" - 3" cal.	B&B
18	⊙	Fagus grandifolia American Beech	2 1/2" - 3" cal.	B&B
18	⊙	Cornus florida 'rubra' Red Flowering Dogwood	8'-10'	B&B
116	TOTAL			

***AFFORESTATION PLANT LIST**

SPECIES	SIZE	REMARKS
White Oak		
Quercus alba	4 Ft.	Cont. or BR
Flowering Dogwood		
Cornus florida	4 Ft.	" "
Red Maple		
Acer rubrum	4 Ft.	" "
Tulip Poplar		
Liriodendron tulipifera	4 Ft.	" "
White Sassafras		
Sassafras albidum	4 Ft.	" "
Blue Beech		
Carpinus caroliniana	4 Ft.	" "

* FROM APPROVED FOREST CONSERVATION PLAN SEE CONSERVATION PLAN FOR AFFORESTATION PLANTING AREAS & DETAILS. SEE SHEET 7 FOR AFFORESTATION NOTES.
* On well drained planting area, White Sassafras shall be used, on the less poorly drained area (stream buffer, etc.) the Blue Beech shall be used and each species distributed to the respective planting areas accordingly.

Planting Schedule/Timeframe

Planting shall occur after construction activities have ceased. If the planting stock is to be bare root material, it shall be planted no earlier than immediately after the first frost and no later than March 15. Container stock may be planted at any time and if such stock is chosen, planting shall be accomplished by the end of the first growing season after completion of construction activities.

APPROVED: *Robert M. Decker*
CHIEF BUREAU OF HIGHWAYS
DATE: 9-16-98

APPROVED: DEPARTMENT OF PLANNING AND ZONING

APPROVED: *Clayton Simmons*
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9/13/98

APPROVED: *Clayton Simmons*
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 9/13/98

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

APPROVED: *Clayton Simmons*
NATURAL RESOURCE CONSERVATION SERVICE
DATE: 8/13/98

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *John R. Robinson*
HOWARD SOIL CONSERVATION DISTRICT
DATE: 8/13/98

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

APPROVED: *Trace D. Burton*
REGISTERED PROFESSIONAL ENGINEER
DATE: 8/13/98

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

APPROVED: *Nan Samulson*
DATE: 8/13/98

