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2	FOX HAVEN WAY PLAN & PROFILE
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7	STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
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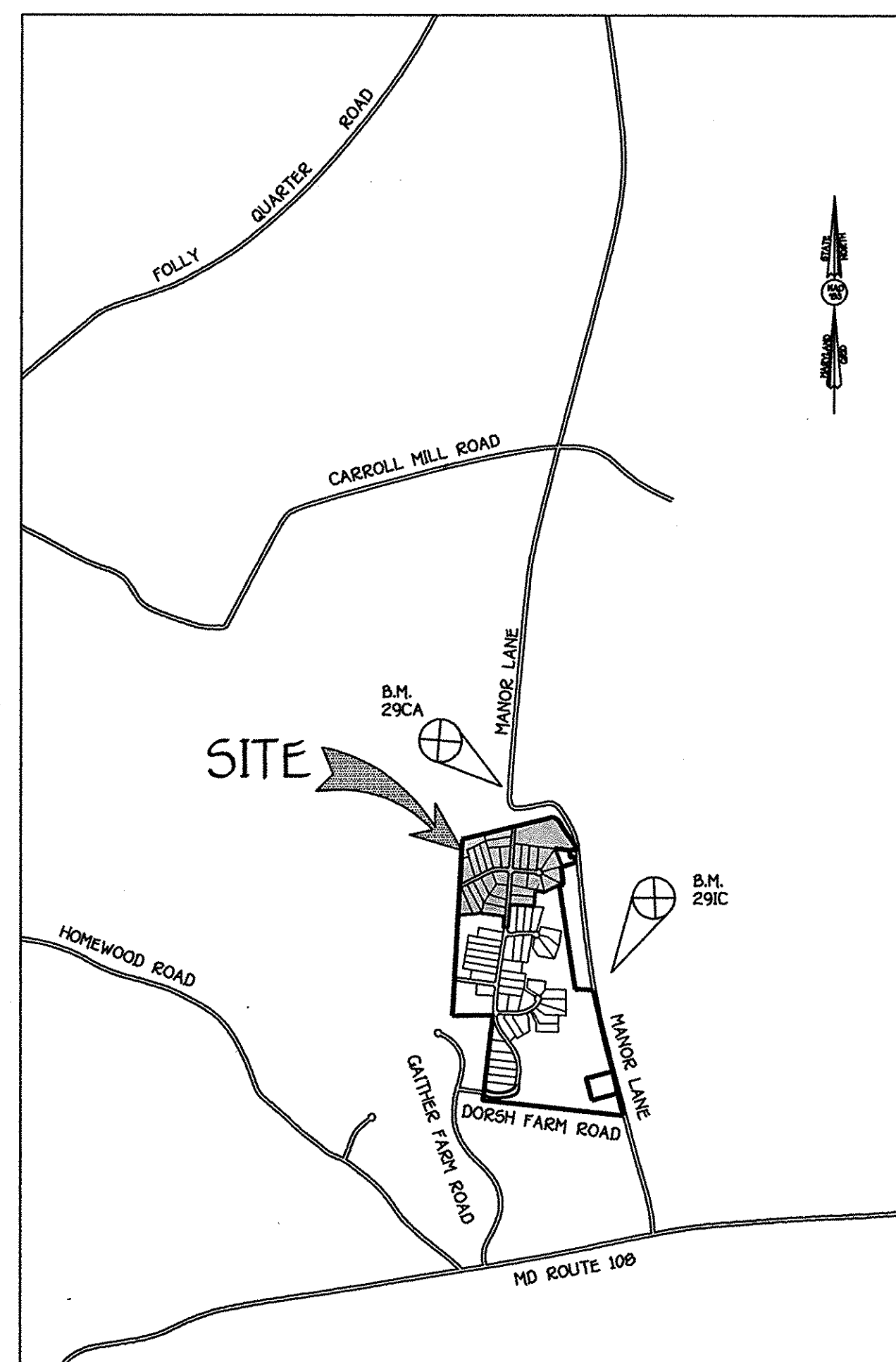
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*Howard Shil* for 6/19/98  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Candy Hamilton* TC 7/2/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Mark Darrin* MK 7/1/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

# FINAL ROAD CONSTRUCTION, GRADING AND SEDIMENT CONTROL PLANS FOR GAITHER HUNT SECTION ONE AREA TWO LOTS 34-62 AND PRESERVATION PARCELS 'A' ZONING "RC-DEO" TAX MAP No. 23 PARCEL 128 GRID 23

TRAFFIC CONTROL SIGNS				
STREET NAME	STATION	OFFSET	POSTED SIGN	SIGN CODE
FOX HAVEN WAY	35+00	13' R	SPEED LIMIT 30	R2-1
FOX HAVEN WAY	40+00	13' L	SPEED LIMIT 30	R2-1
BITTERSWEET COURT	0+35	13' L	STOP	R1-1
BITTERSWEET COURT	0+50	13' R	SPEED LIMIT 25	R2-1
OPEN RUN ROAD	0+35	13' L	STOP	R1-1
OPEN RUN ROAD	0+50	13' R	SPEED LIMIT 30	R2-1



VICINITY MAP

**GENERAL NOTES**

- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
  - HOWARD COUNTY STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION VOLUME IV.
  - MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, AS AMENDED.
  - SOIL CONSERVATION SERVICE 1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - SOIL CONSERVATION SERVICE 1993 MARYLAND STANDARDS AND SPECIFICATION FOR POND CONSTRUCTION (CODE 378)
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1800 AT LEAST (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- TOPOGRAPHY SHOWN HEREON IS AT 2' CONTOUR INTERVALS, BASED ON FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN AUGUST, 1996.
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED IN THE FACILITY LOCATED IN SEC. 1, AREA 1 (F98-24).
- HORIZONTAL AND VERTICAL DATUMS ARE BASED ON HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1012 AND NO. 16E1 COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY MONUMENT 29CA  
 HOWARD COUNTY MONUMENT 29CA N 17515.50700M ELEV. = 445.577  
 E 409509.905700M ELEV. = 509.924  
 HOWARD COUNTY MONUMENT 291C N 17444.56400M ELEV. = 509.924  
 E 409686.239400M
- FOREST DELINEATION WAS PROVIDED BY ECO-SCIENCE PROFESSIONALS.
- THE 100 YR. FLOODPLAIN STUDY WAS PROVIDED BY FISHER, COLLINS & CARTER, INC. UNDER SECTION 1, AREA 1 (F98-24).
- THE WETLANDS STUDY WAS PREPARED BY Eco-Science Professionals, Inc. AND APPROVED BY HOWARD COUNTY ON 8/96 UNDER 5-96-18.
- THE TRAFFIC STUDY WAS PROVIDED BY THE TRAFFIC GROUP AND APPROVED ON 8/96 UNDER 5-96-18.
- THE SOILS INVESTIGATION REPORT WAS PREPARED BY F&C, INC. ON JUNE 1997, UNDER SEC. 1, AREA 1.
- THE SKETCH PLAN 5-96-18 WAS APPROVED ON 8/20/96. THE PRELIMINARY PLAN P 97-08 WAS APPROVED ON 7/17/97.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE, 1993)".
- A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS DEVELOPMENT.
- DRAINAGE AREA IS THE LITTLE PATUXENT.
- TOTAL AREA OF SUBMISSION: 40.604 AC.
- TABULATION (TOTAL AREA OF SUBDIVISION): 40.604 AC.
  - TOTAL NUMBER OF BUILDABLE LOTS = 28
  - TOTAL AREA OF OPEN SPACE LOTS = 1,493 AC.
  - TOTAL AREA OF ROADWAY = 3,267 AC.
  - ZONED: RC-DEO
- THE FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.120D OF THE HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN.
- FOR PLANTING DETAILS & QUANTITIES SEE ROAD CONSTRUCTION PLANS FOR GAITHER HUNT SECTION 1, AREA 1 (F98-24) SHEET 23 OF 23.
- THE CONSTRUCTION PROPOSED FOR GAITHER HUNT SECTION 1, AREA 1 IS SHOWN ON F-98-24.

## SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21114  
 (410) 461-2855

**OWNERS**

PHILIP CARROLL 3500 MANOR LANE ELLICOTT CITY, MARYLAND 21042  
 CAMILLA CARROLL 4400 MANOR LANE ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**

RUSSELL DEVELOPMENT, L.L.C.  
 c/o J. THOMAS SCRIVENER  
 5026 DORSEY HALL DR., SUITE 204  
 ELLICOTT CITY, MARYLAND 21042



*Jayesh Pancholi*  
 JAYESH V. PANCHOLI, P.E. 1-7-98  
 DATE

**GAITHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34 - 62 AND PRESERVATION PARCEL 'A'  
 ZONING "RC-DEO"  
 TAX MAP NO. 23, PARCEL NO. 128, GRID NO. 23  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SHEET 1 OF 12

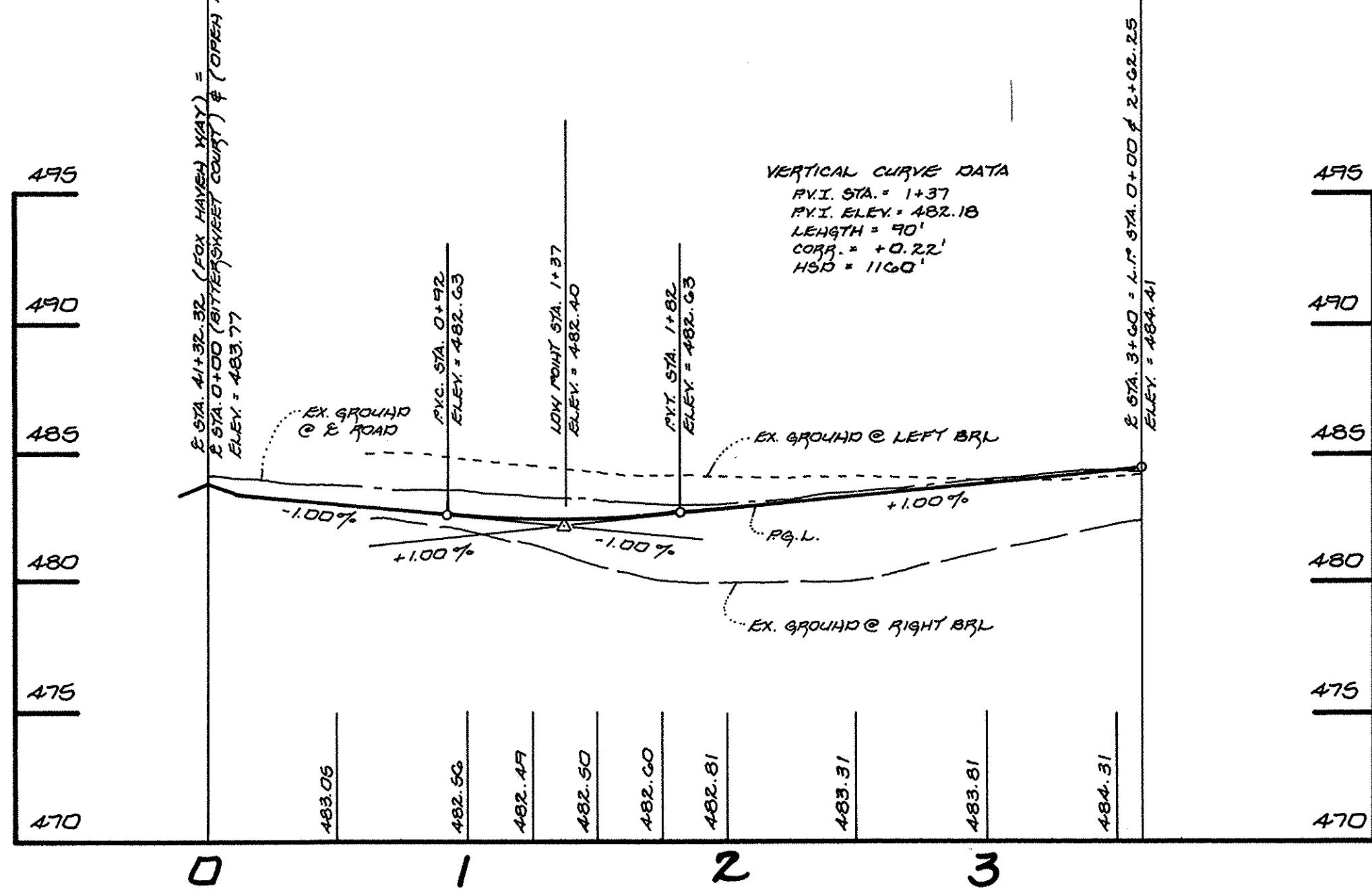
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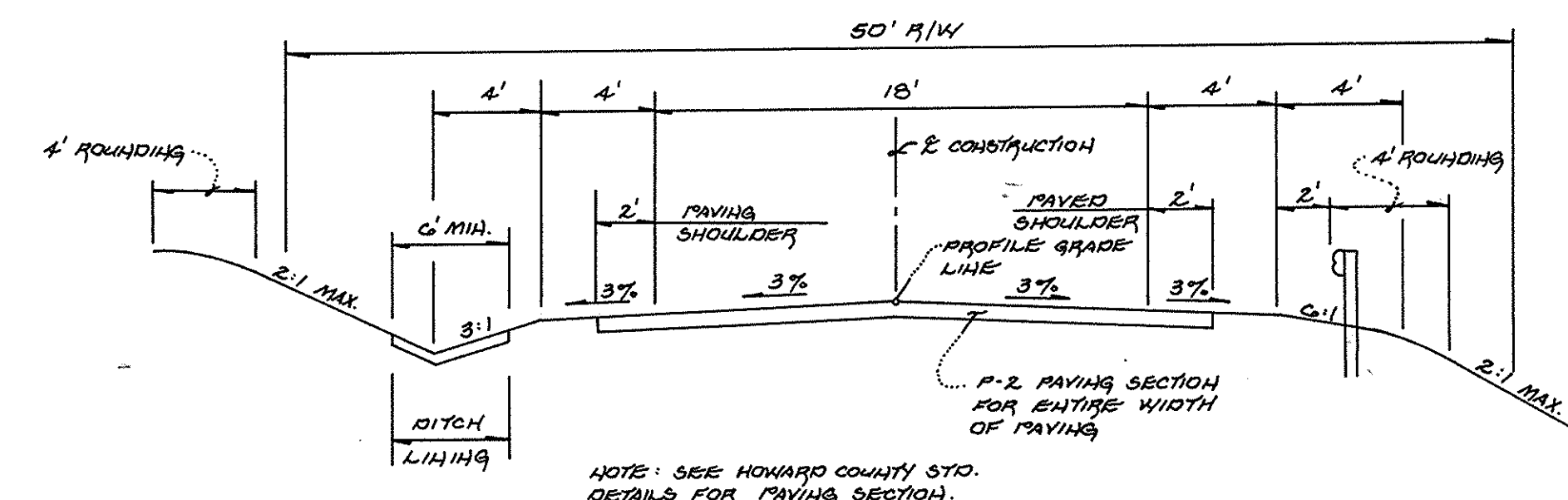
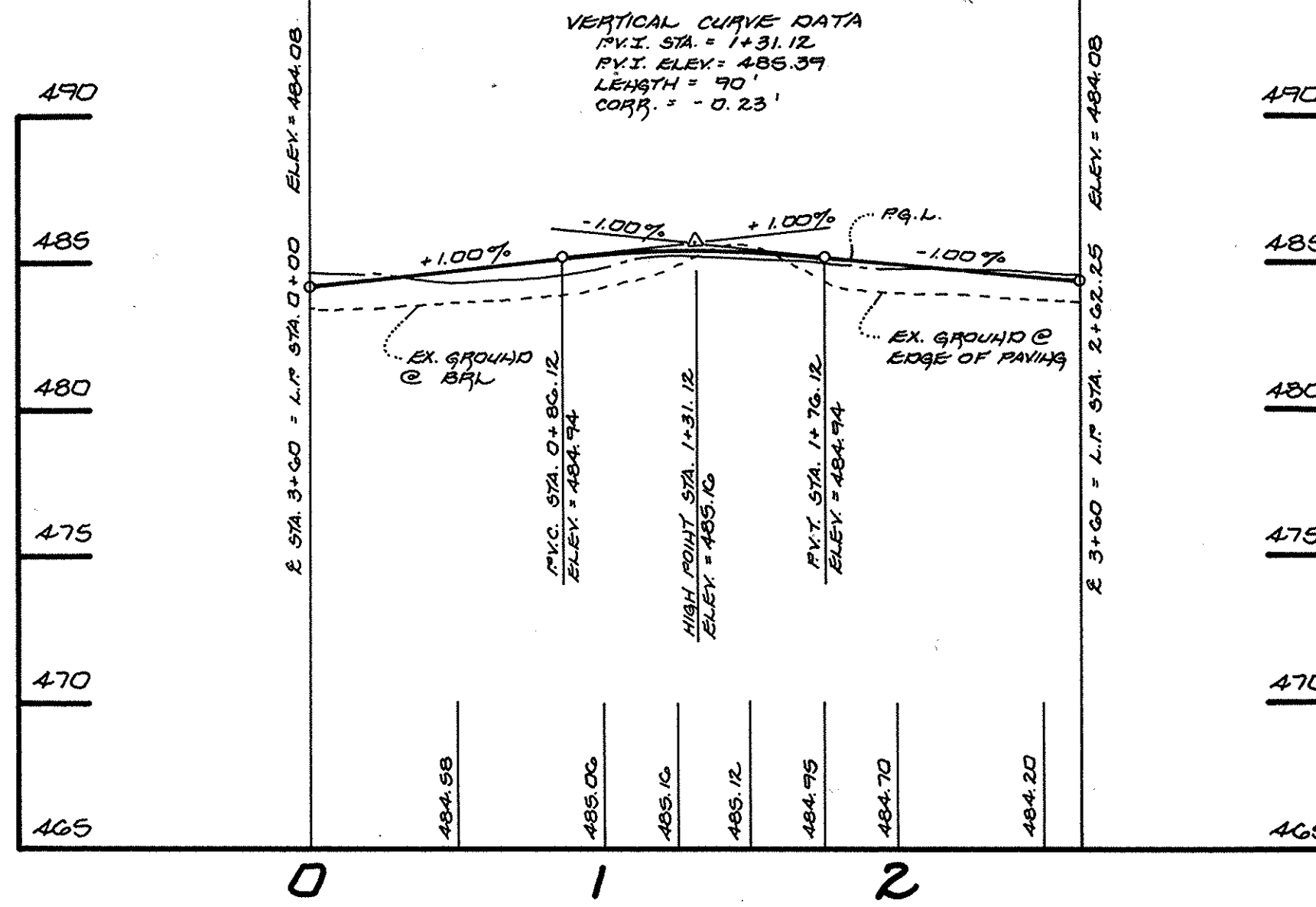


# BITTERSWEET COURT

DESIGN SPEED = 25 M.P.H.



# BITTERSWEET COURT LINEAR PROFILE



TYPICAL ROAD SECTION  
(NO SCALE)

ROAD NAME	E. STA. LIMITS	DESIGN SPEED	ZONING
FOX HAYES WAY	32+50 TO 47+88.16	30 M.P.H.	RC-DEO
BITTERSWEET COURT	0+00 TO 4+20	25 M.P.H.	RC-DEO
OPEN RUN ROAD	0+00 TO 7+98	30 M.P.H.	RC-DEO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*C. Hamilton* 7/2/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*M. DeMunn* 7/1/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Howard Shindler* 6/19/98  
 CHIEF, BUREAU OF HIGHWAYS DATE

## PROFILES

SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**GAITHER HUNT**  
 SECTION 1, AREA 2  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 2ND. ELECTION DISTRICT ZONING: RC-DEO HOWARD COUNTY, MARYLAND

**BITTERSWEET COURT** PROFILE  
**OPEN RUN ROAD** PROFILE  
**TYPICAL ROAD SECTION**

**OWNERS**  
 PHEL CARROLL 3600 THORNE LANE ELLICOTT CITY, MD 21042  
 CAYLA CARROLL 1400 THORNE LANE ELLICOTT CITY, MD 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C. 700 W. 7TH STREET ELLICOTT CITY, MARYLAND 21042

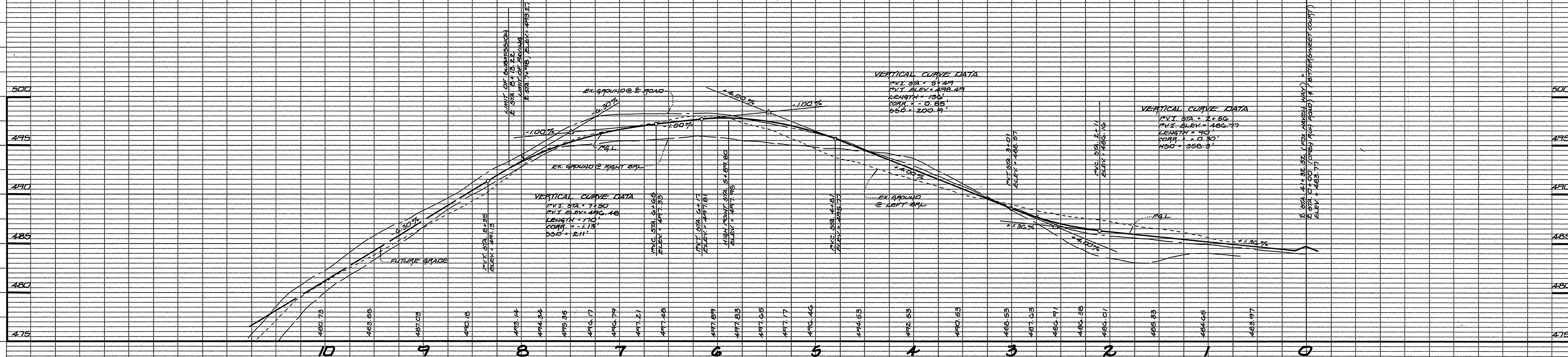
SCALE: AS SHOWN DATE: JAN 5, 1998 DWG. NO. 4 OF 12  
 DES. B.J.K. DRN. J.C.L. CHK. J.V.P.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE PARK - 10272 BALTHORE NATIONAL FREE ELLICOTT CITY, MARYLAND 21042 (410) 681-2855



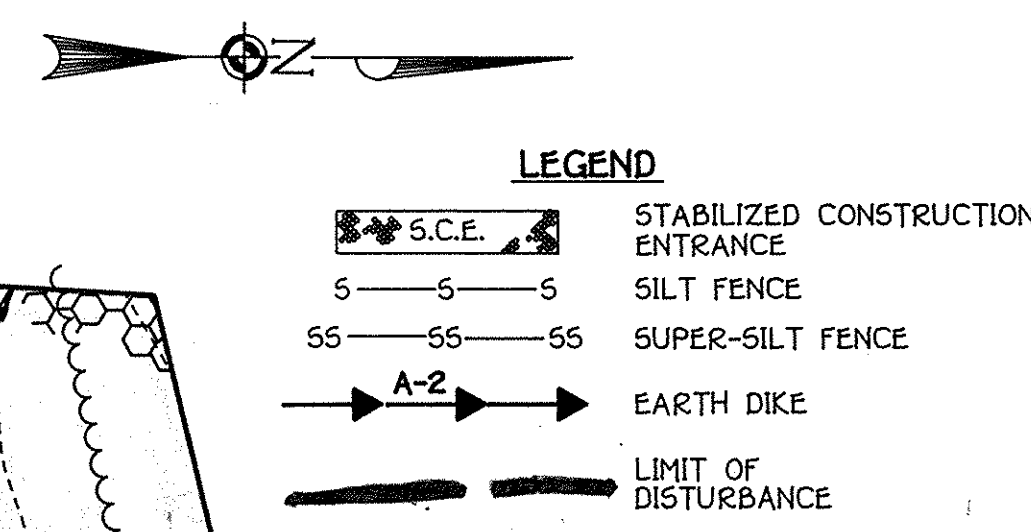
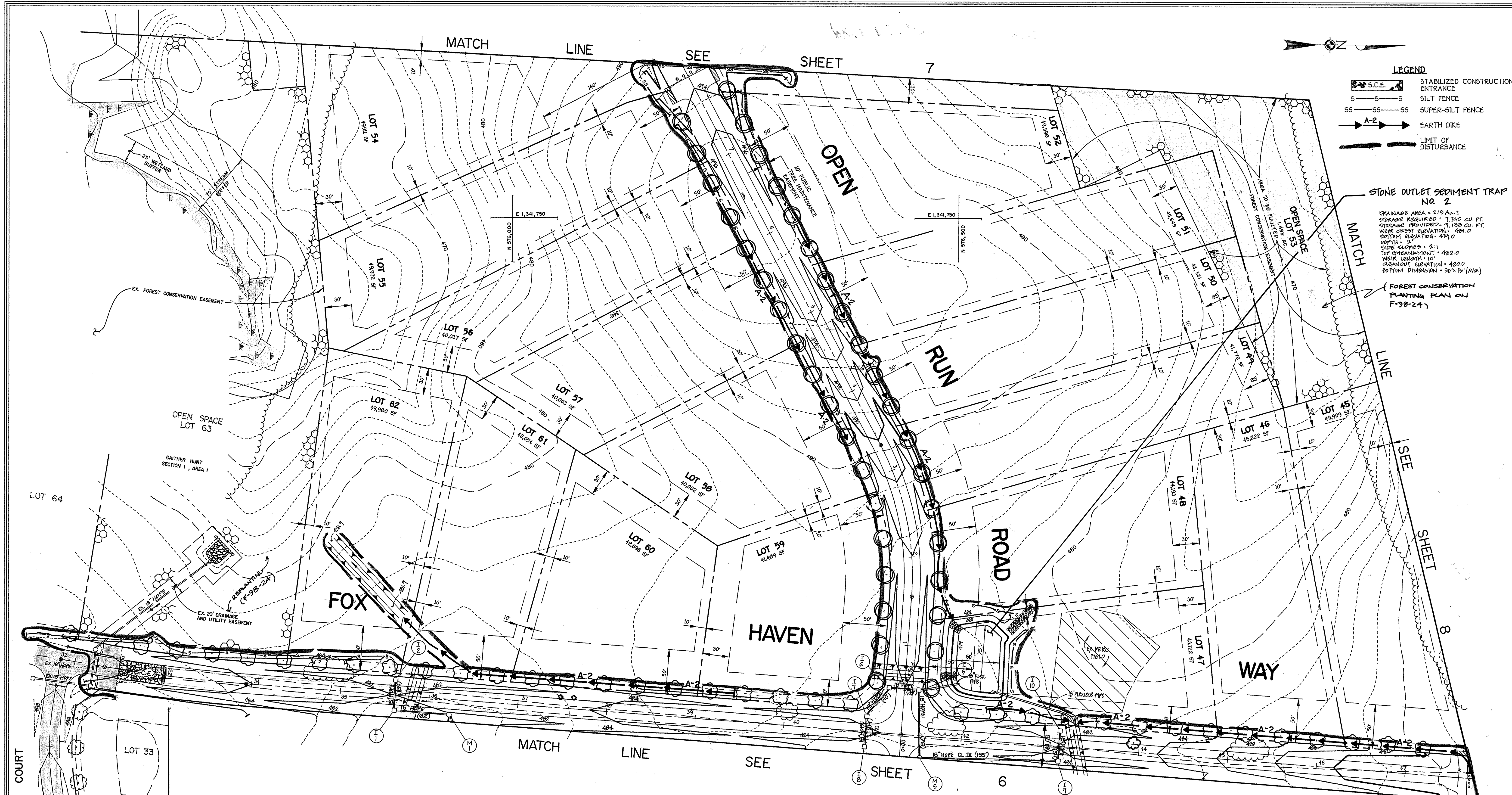
# OPEN RUN ROAD

DESIGN SPEED = 30 M.P.H.



## PROFILE

SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'



**STONE OUTLET SEDIMENT TRAP NO. 2**

DRAINAGE AREA = 2.19 AC.  
 STORAGE REQUIRED = 7,740 CU. FT.  
 STORAGE PROVIDED = 11,130 CU. FT.  
 WEIR CREST ELEVATION = 491.0  
 BOTTOM ELEVATION = 491.0  
 DEPTH = 2'  
 SIDE SLOPES = 2:1  
 TOP EMBANKMENT = 492.0  
 WEIR LENGTH = 10'  
 CREST ELEVATION = 490.0  
 BOTTOM DIMENSION = 50' x 10' (AVE.)

(FOREST CONSERVATION PLANTING PLAN ON F-98-24)

**STREET TREE SCHEDULE**

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
	ACER BUBRUM "OCTOBER GLORY" RED MAPLE	2 1/2" - 3" CALIPER	40' APART ON PUBLIC R/W
	PLATANUS OCCIDENTALIS "BLOODSOON" LONDON PLANETREE	2 1/2" - 3" CALIPER	40' APART ON PUBLIC R/W

NOTE:  
STREET TREES ARE ONLY A RECOMMENDATION.  
THIS MAY BE REVISED TO A COUNTY  
ACCEPTABLE EQUIVALENT.  
TOTAL NUMBER OF STREET TREES:  
 36 STREET TREES (THIS SHEET)  
 37 STREET TREES

**STREET TREE, GRADING AND  
SEDIMENT CONTROL PLAN**  
**GATHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND  
 PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCEL: 2014 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 5 OF 12

**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 Condition and That it was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.

*James Pancheli* 1/7/98  
 Signature of Engineer Date

**DEVELOPER'S CERTIFICATE**

"I/we certify that all development and construction will be done according to this Plan of Development and Plan for Erosion and Sediment Control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources 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."

*[Signature]* 1/7/98  
 Signature of Developer Date

Reviewed for Howard County Soil Conservation District and Meets Technical Requirements  
*Cheryl Summers* 6/11/98  
 U.S.D.A. - Natural Resources Conservation Service Date

Approved: This Development is Approved for Erosion and Sediment Control by the Howard Soil Conservation District.

*John H. Robinson* 6/11/98  
 District Howard Soil Conservation Dist. Date

Approved: Department of Planning and Zoning

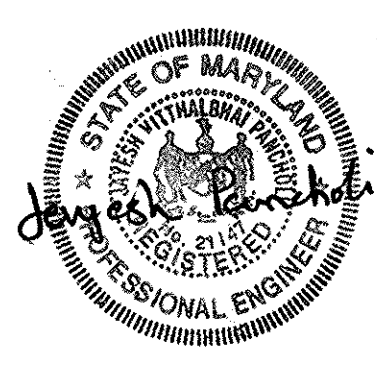
*[Signature]* 7/2/98  
 Chief, Division of Land Development Date

*[Signature]* 7/1/98  
 Chief, Development Engineering Division Date

Approved: Howard County Department of Public Works

*[Signature]* 6/11/98  
 Chief, Bureau of Highways Date

**PLAN**  
 SCALE: 1" = 50'



**OWNERS**

PHILIP CARROLL  
 3500 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

CAMILIA CARROLL  
 4400 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**

RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHREIBER  
 5026 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK #10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2355

50565 STREET TREE GRADING PLAN/DWG

F-98-76

**LEGEND**

- S—S—S SILT FENCE
- SS—SS—SS SUPER-SILT FENCE
- A—A—A EARTH DIKE
- — — — — LIMIT OF DISTURBANCE



Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.

*John R. Robertson* 6/15/98  
District Howard Soil Conservation Dist. Date

**ENGINEER'S CERTIFICATE**

I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

*Janech Parnoch* 1-7-98  
Signature Of Engineer Date

**DEVELOPER'S CERTIFICATE**

"I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources 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."

*[Signature]* 1/7/98  
Signature Of Developer Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Cindy Hamilton* 7/2/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

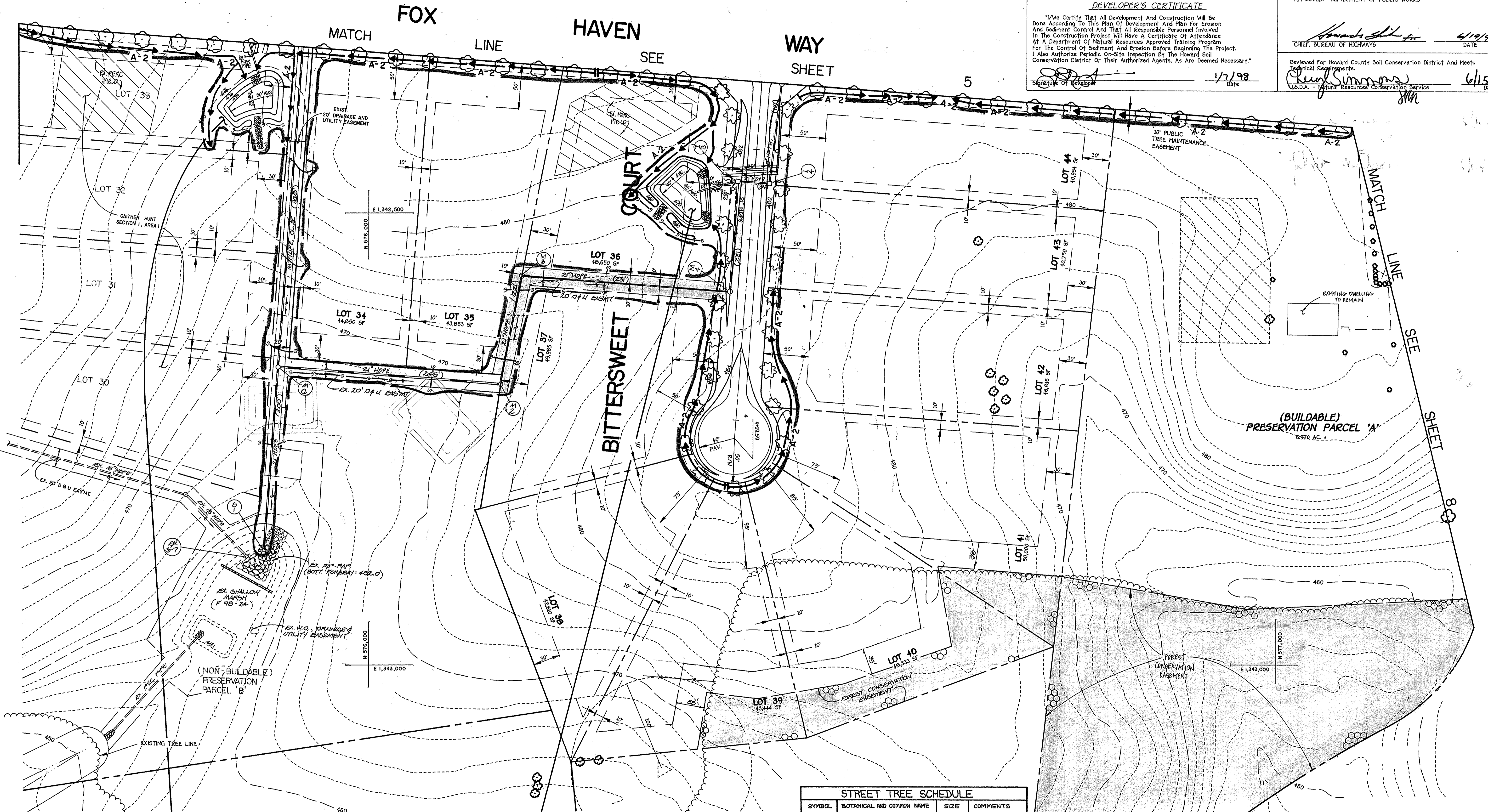
APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7/1/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

*[Signature]* 6/19/98  
CHIEF, BUREAU OF HIGHWAYS DATE

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.  
*Cheryl Simmons* 6/15/98  
U.S.D.A. - Natural Resources Conservation Service Date



**STONE OUTLET SEDIMENT TRAP NO. 1**  
DRAINAGE AREA : 1.40 AC.  
STORAGE REQUIRED : 5,040 CU. FT.  
STORAGE PROVIDED : 5,237 CU. FT.  
WEIR CREST ELEV. : 471.0  
BOTTOM ELEV. : 474.0  
DEPTH : 3'  
SIDE SLOPES : 2:1  
TOP EMBANKMENT : 478.0  
WEIR LENGTH : 6'  
CLEANOUT ELEV. : 471.5  
BOTTOM DIM. : 50' x 25' (ANG.)

**STONE OUTLET SEDIMENT TRAP NO. 3**  
DRAINAGE AREA : 1.97 AC.  
STORAGE REQUIRED : 7,100 CU. FT.  
STORAGE PROVIDED : 7,925 CU. FT.  
WEIR CREST ELEV. : 474.0  
BOTTOM ELEV. : 476.0  
DEPTH : 3'  
SIDE SLOPES : 2:1  
TOP EMBANKMENT : 480.0  
WEIR LENGTH : 10'  
CLEANOUT ELEV. : 471.5  
BOTTOM DIM. : 40' x 45' (ANG.)

**PLAN**  
SCALE: 1" = 50'

**STREET TREE SCHEDULE**

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
	ACER RUBRUM "OCTOBER GLORY" RED MAPLE	2 1/2" - 3" CALIPER	40' APART ON PUBLIC R/W
	QUERCUS COCCINEAS SCARLET OAK	MIN. 2 1/2" CALIPER	40' APART ON R/W

NOTE:  
STREET TREES ARE ONLY A RECOMMENDATION.  
THIS MAY BE REVISED TO A COUNTY  
ACCEPTABLE EQUIVALENT.

- TOTAL NUMBER OF STREET TREES.
- 33 STREET TREES (THIS SHEET)
- 24 STREET TREES

**OWNERS**  
PHILIP CARROLL  
3500 MANOR LANE  
ELICOTT CITY, MARYLAND 21042

**DEVELOPER**  
RUSSELL DEVELOPMENT, L.L.C.  
4400 MANOR LANE  
ELICOTT CITY, MARYLAND 21042



STREET TREE, GRADING AND  
SEDIMENT CONTROL PLAN  
**GAITHER HUNT**  
SECTION ONE AREA TWO  
LOTS 34-42 AND  
PRESERVATION PARCEL 'A'  
ZONING : "RC-DEO"  
TAX MAP No. 23 PARCEL 120 GRID 23  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: JAN. 5, 1998  
SHEET 6 OF 12



**ENGINEER'S CERTIFICATE**  
 I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.  
*James Panchali* 1-7-98  
 Signature Of Engineer Date

**DEVELOPER'S CERTIFICATE**  
 "I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources 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."  
*[Signature]* 1/7/98  
 Signature Of Developer Date

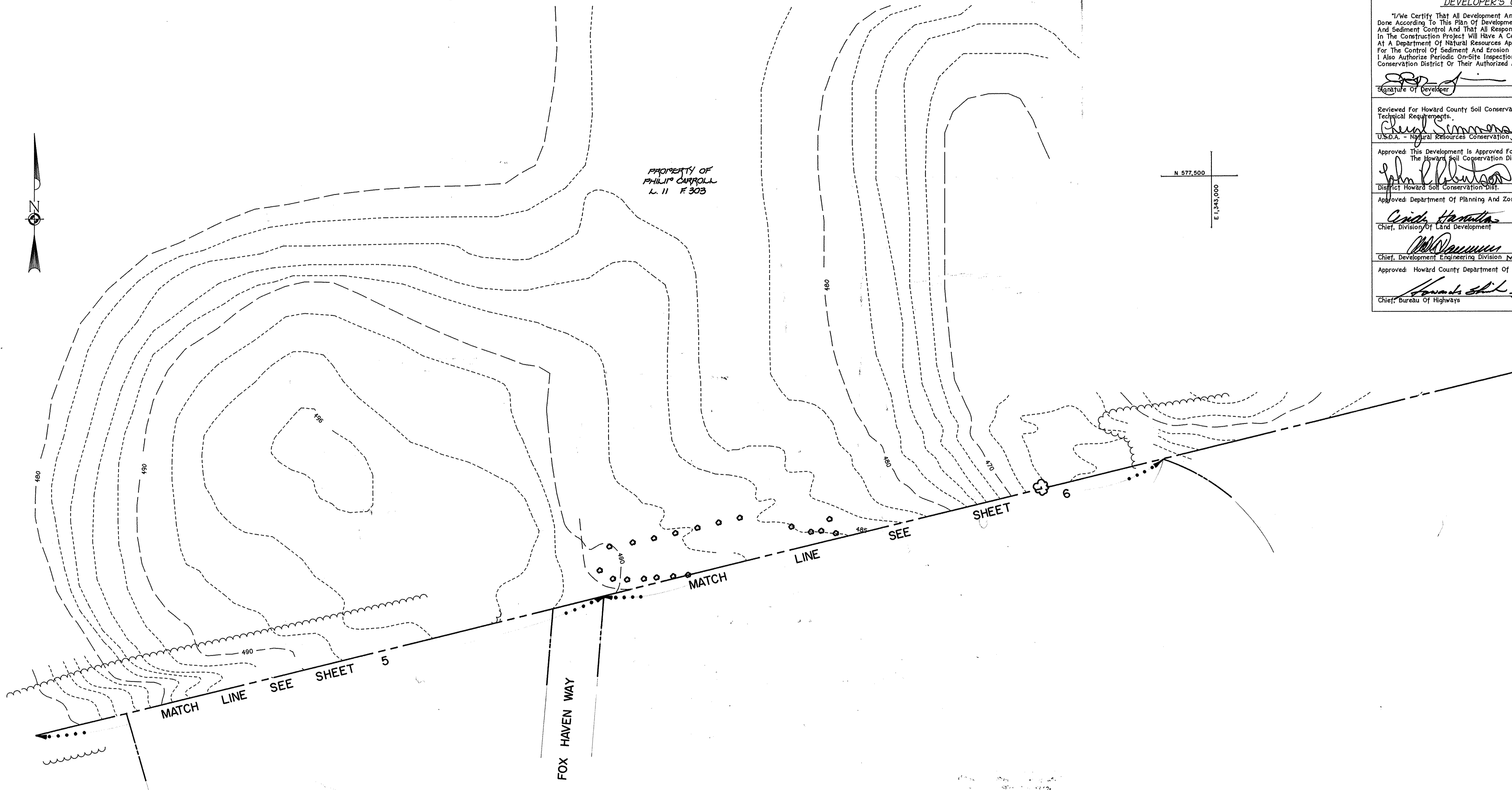
Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.  
*Carol Simmons* 6/15/98  
 U.S.D.A. - Natural Resources Conservation Service Date

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.  
*John P. Blanton* 6/15/98  
 District Howard Soil Conservation Dist. Date

Approved: Department Of Planning And Zoning  
*Craig Hamilton* 7/2/98  
 Chief, Division Of Land Development Date

*[Signature]* 2/1/98  
 Chief, Development Engineering Division MK Date

Approved: Howard County Department Of Public Works  
*Howard S. L. A.* 6/19/98  
 Chief, Bureau Of Highways Date

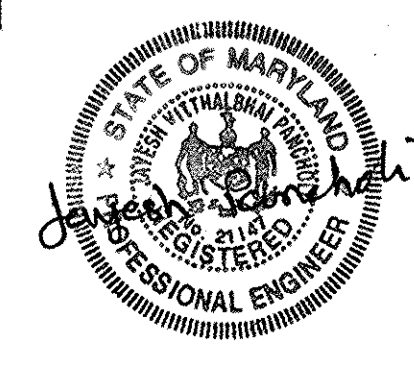


**PLAN**  
 SCALE: 1" = 50'

**OWNERS**  
 PHILIP CARROLL 3500 MANOR LANE ELLICOTT CITY, MARYLAND 21042  
 CAMILLA CARROLL 4400 MANOR LANE ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHREIBER  
 5026 BORSEY HALL DRIVE-SUITE 204 ELLICOTT CITY, MARYLAND 21042

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042  
 4100 461 - 3295



**STREET TREE, GRADING AND SEDIMENT CONTROL PLAN**  
**GAITHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCELS 128 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 8 OF 12



SCHEDULE A PERIMETER LANDSCAPE EDGE												
PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)		NUMBER OF PLANTS REQUIRED			NUMBER OF PLANTS PROVIDED			
				YES	NO	SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES	EVERGREEN TREES	SHRUBS	
P-1	ADJACENT TO PERIMETER	A	710'	YES	190'	NO	8	-	-	8	-	-
P-2	ADJACENT TO PERIMETER	A	845'	YES	60'	NO	13	-	-	13	-	-
P-3	ADJACENT TO PERIMETER	A	690'	NO	-	NO	11	-	-	11	-	-
P-4	ADJACENT TO PERIMETER	A	435'	YES	230'	NO	3	-	-	3	-	-
P-5	ADJACENT TO PERIMETER	A	600'	YES	90'	NO	8	-	-	8	-	-
P-6	ADJACENT TO PERIMETER	A	550'	YES	400'	NO	2	-	-	2	-	-
P-7	ADJACENT TO PERIMETER	A	460'	NO	-	NO	7	-	-	7	-	-
P-8	ADJACENT TO PERIMETER	A	235'	NO	-	NO	3	-	-	3	-	-

PLANT LIST			
QTY	KEY	NAME	SIZE
55	○	ACER RUBRUM 'OCTOBER GLOVE' (OCTOBER RED MAPLE)	2 - 2 1/2" CAL. FULL CROWN B 4 B

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SECURITY FOR THE 54 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$9,500.00.

NO.	DATE	REVISION
1	4/30/09	EXTEND FOX HAVEN WAY
FOR BENCHMARK F.M. 242, REB. 1 ONLY		

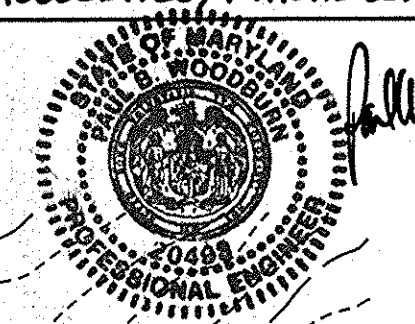
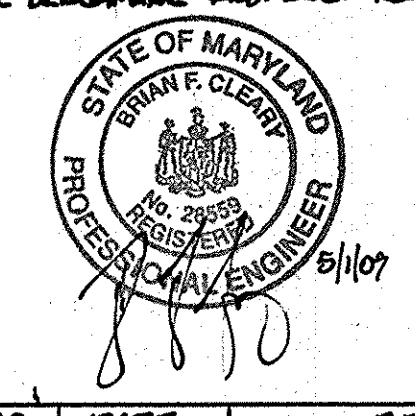
NO.	DATE	REVISION
2	5-23-14	REVISE F.C.E. & ADD 15' WIDE EASEMENT

BY BEN DYER ASSOCIATES MITCHELLVILLE, MD

Approved: Department of Planning And Zoning  
 Chief, Division of Land Development  
*Cindy Hamilton* 7/2/98  
 Date

Approved: Chief, Development Engineering Division  
*Mike Deanna* 7/1/98  
 Date

Approved: Chief, Bureau of Public Works  
*Howard Shik* 6/19/98  
 Date

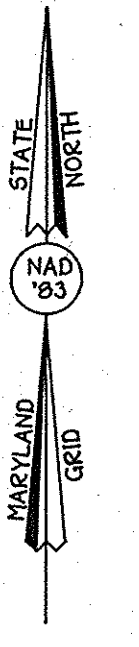


EXISTING FOREST CONSERVATION EASEMENT TO BE ABANDONED (15' WIDE EASEMENT) 4,505 SQ. FT. OR 0.1034 AC.

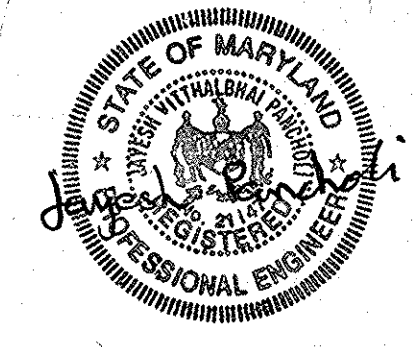
LEGEND

REPLACEMENT AREA

AREA TO BE ABANDONED



DRAINAGE AREAS					
INLET	D.A.	AREA AC.	'C'	ZONED	XIMP
I-1	A	0.43	0.53	RC-DEO	39
I-2	B	0.42	0.53	RC-DEO	40
I-3	H	0.40	0.56	RC-DEO	45
I-4	C	0.41	0.56	RC-DEO	44
I-5	D	0.39	0.56	RC-DEO	39
I-6	E	0.56	0.50	RC-DEO	36
I-7	F	0.09	0.56	RC-DEO	44
I-8	G	0.10	0.53	RC-DEO	40
I-9	I	0.31	0.56	RC-DEO	45
I-10	J	0.41	0.52	RC-DEO	39



**OWNERS**

PHILIP CARROLL  
3500 MANOR LANE  
ELICOTT CITY, MARYLAND 21042

CAMILLA CARROLL  
4400 MANOR LANE  
ELICOTT CITY, MARYLAND 21042

**DEVELOPER**

RUSSELL DEVELOPMENT, LLC  
c/o MR. J. TOM SCHROEDER  
5026 DORSEY HALL DRIVE-SUITE 204  
ELICOTT CITY, MARYLAND 21042

DRAINAGE AREA MAP AND LANDSCAPE PLAN  
**GATHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND  
 PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"

TAX MAP No. 23 PARCEL 128 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 100' DATE: JAN. 5, 1998  
 SHEET 9 OF 12

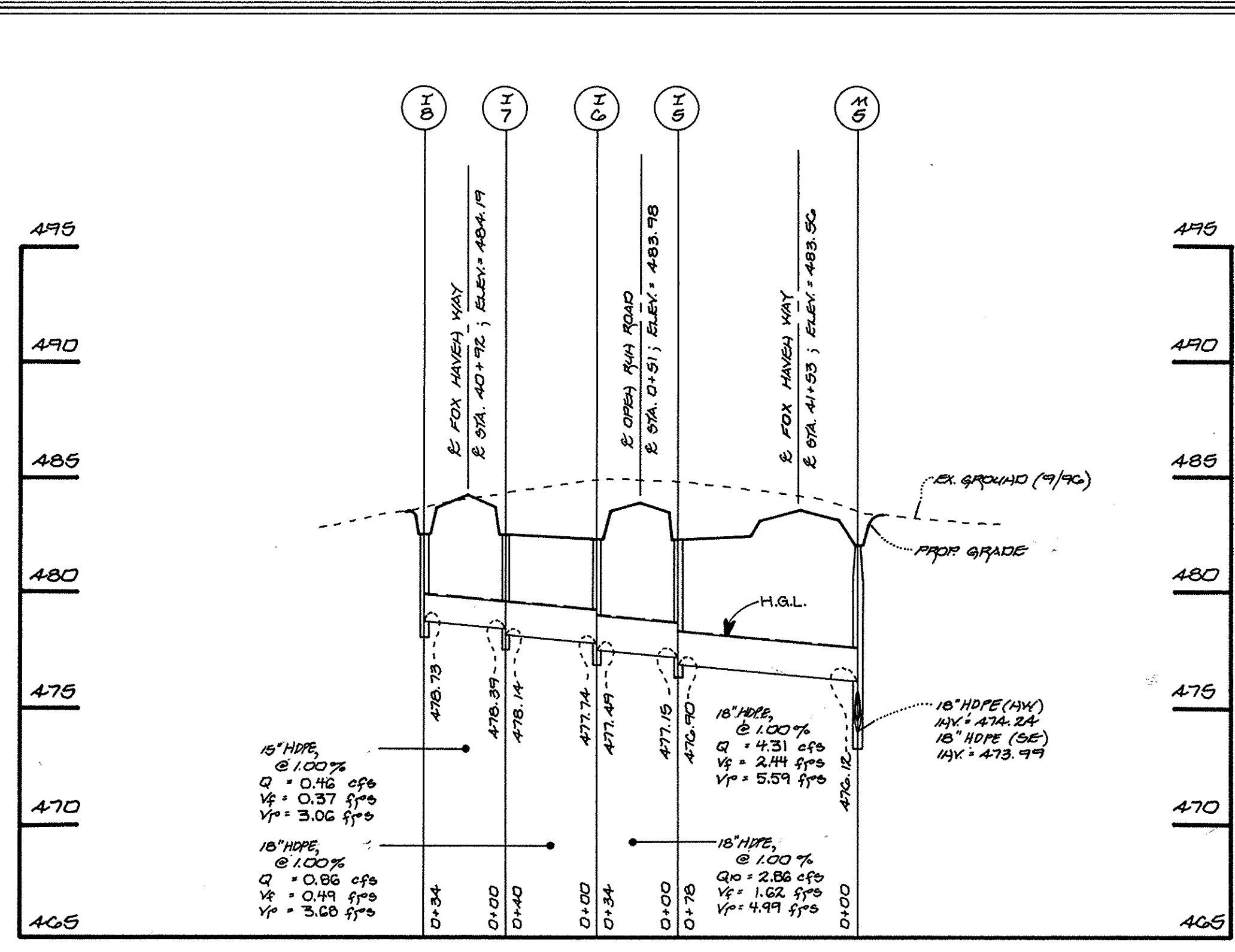
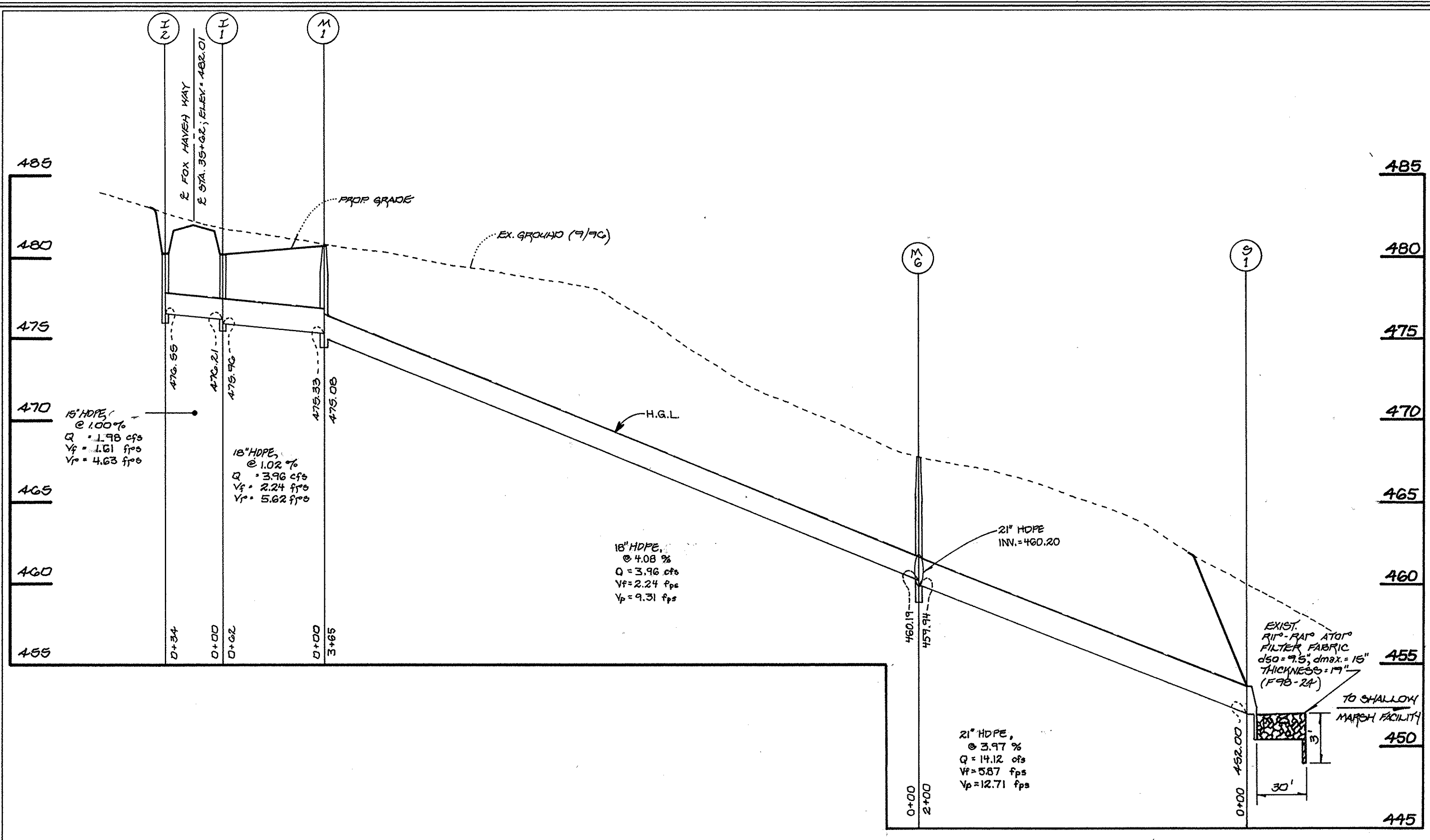
FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTURIAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2255

AS BUILT F-98-76

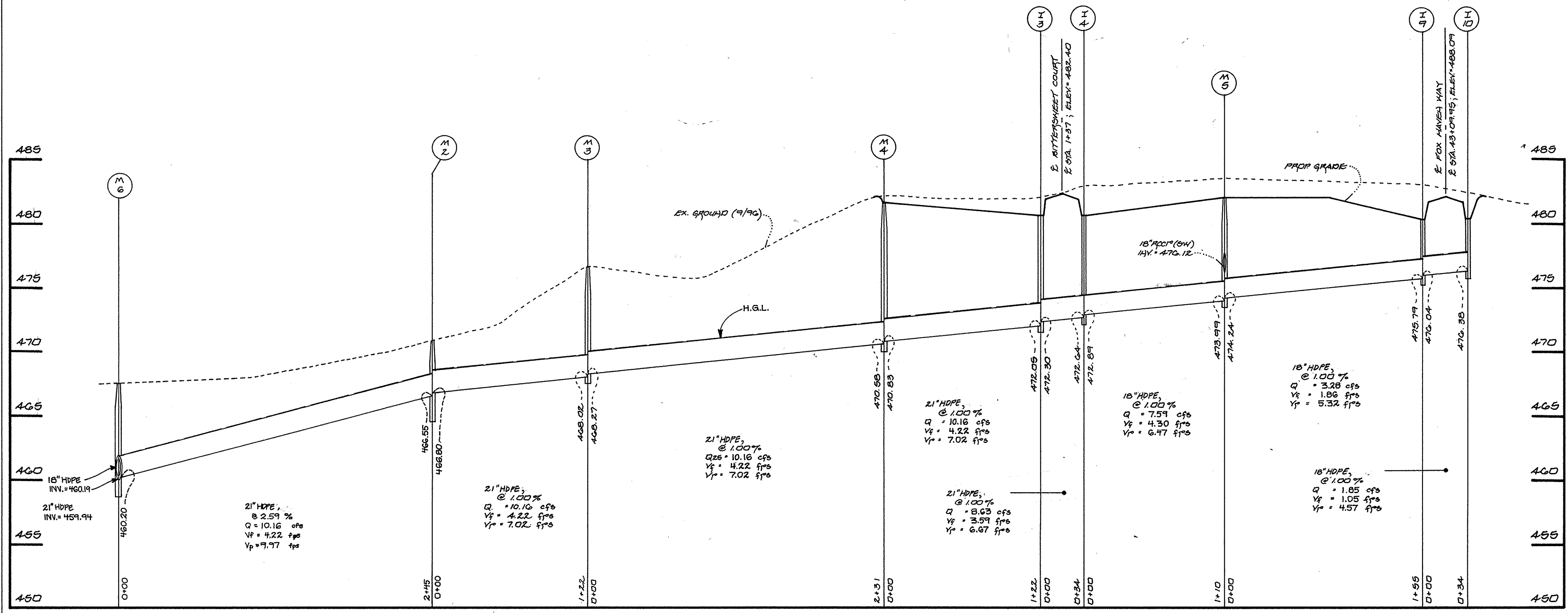
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Division of Land Development *Cinda Hamilton* 7/2/98  
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division *Bill Berman* 7/1/98  
 DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Highways *Howard Shklar* 6/19/98  
 DATE



**PROFILES**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

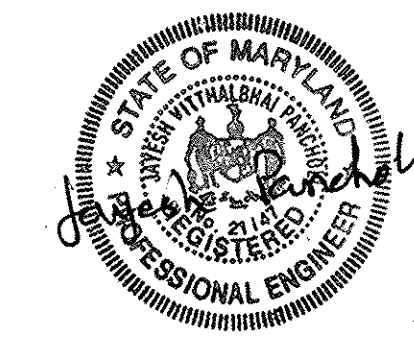


**PROFILE**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2855

**OWNERS**  
 PHILIP CARROLL 3500 MANOR LANE ELLICOTT CITY, MARYLAND 21042  
 CAMILLA CARROLL 4400 MANOR LANE ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHRIVENER  
 5026 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042



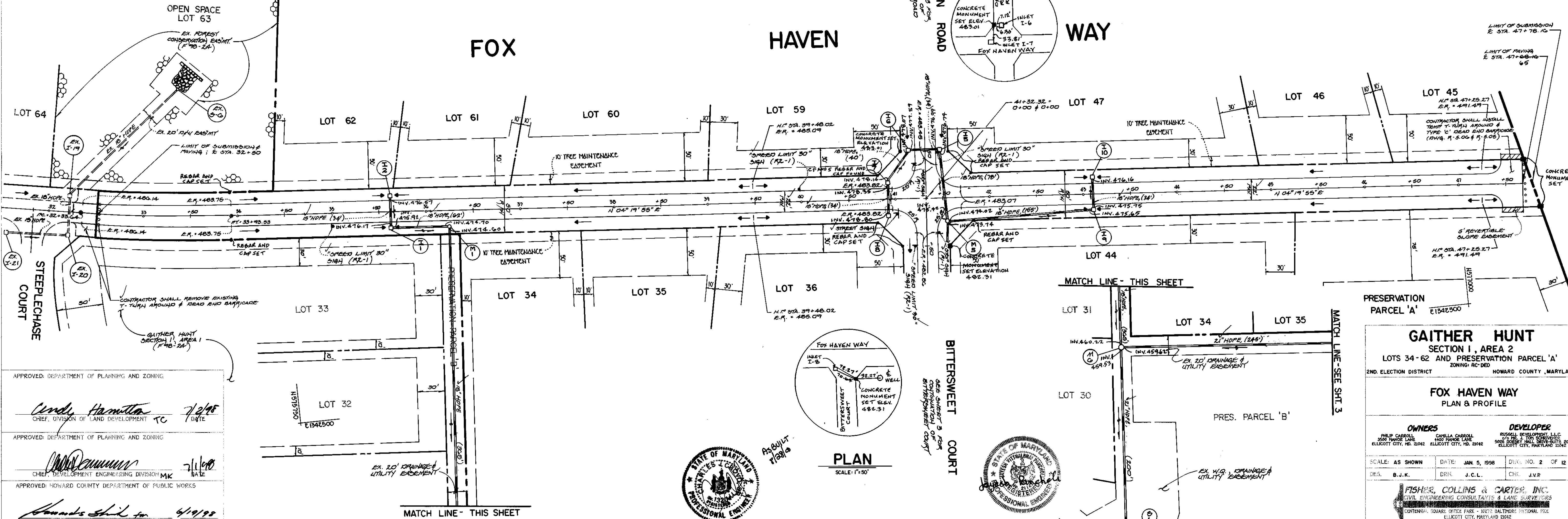
**STORM DRAIN PROFILES**  
**GATHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND  
 PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCEL 128 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 10 OF 12







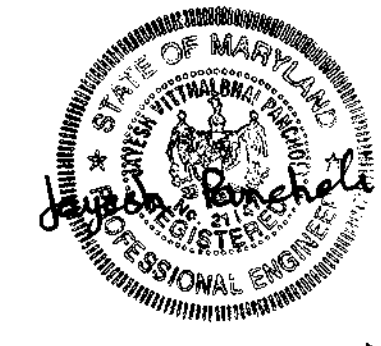
**E CURVE DATA**  
**FOX HAVEN WAY**  
 STA. 32+33.04 TO STA. 33+43.63  
 R = 1735.41'  
 L = 159.09'  
 Δ = 05° 09' 36"  
 T = 80.00'  
 CHORD = N 05° 54' 43" E, 159.84'



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Candi Hamilton* 7/2/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Mark DeWitt* 7/1/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Shawna Shill* 6/19/98  
 CHIEF, BUREAU OF HIGHWAYS



**GAITHER HUNT**  
 SECTION 1, AREA 2  
 LOTS 34 - 62 AND PRESERVATION PARCEL 'A'  
 2ND. ELECTION DISTRICT ZONING: RC-DEO HOWARD COUNTY, MARYLAND

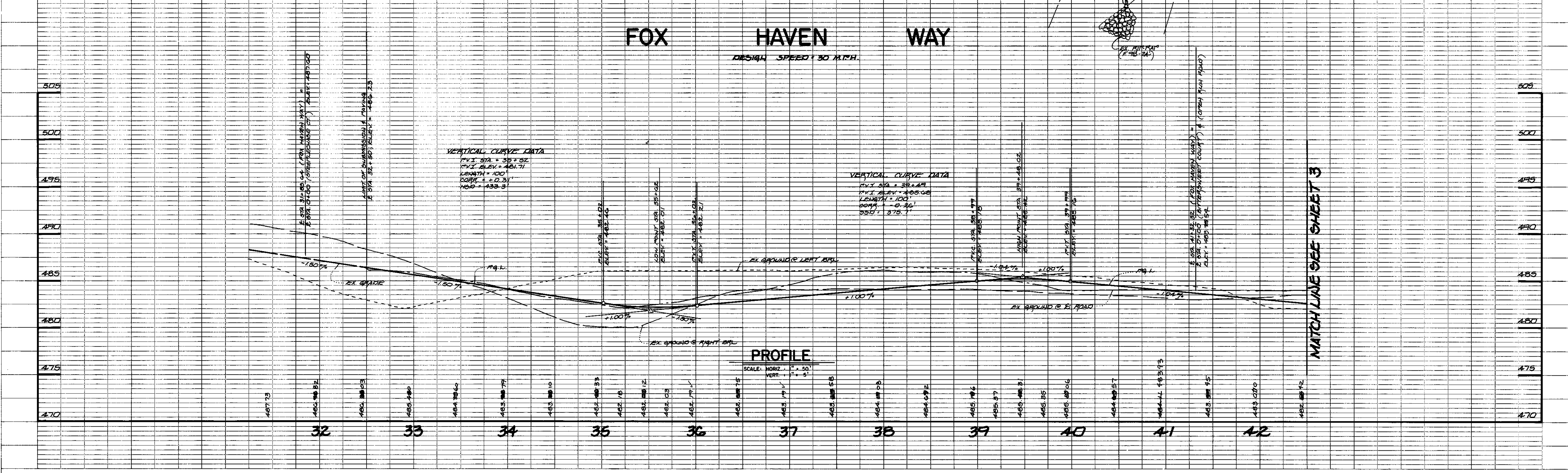
**FOX HAVEN WAY**  
 PLAN & PROFILE

**OWNERS**  
 PHILIP CARROLL  
 300 TOWN LANE  
 ELLICOTT CITY, MD 21042

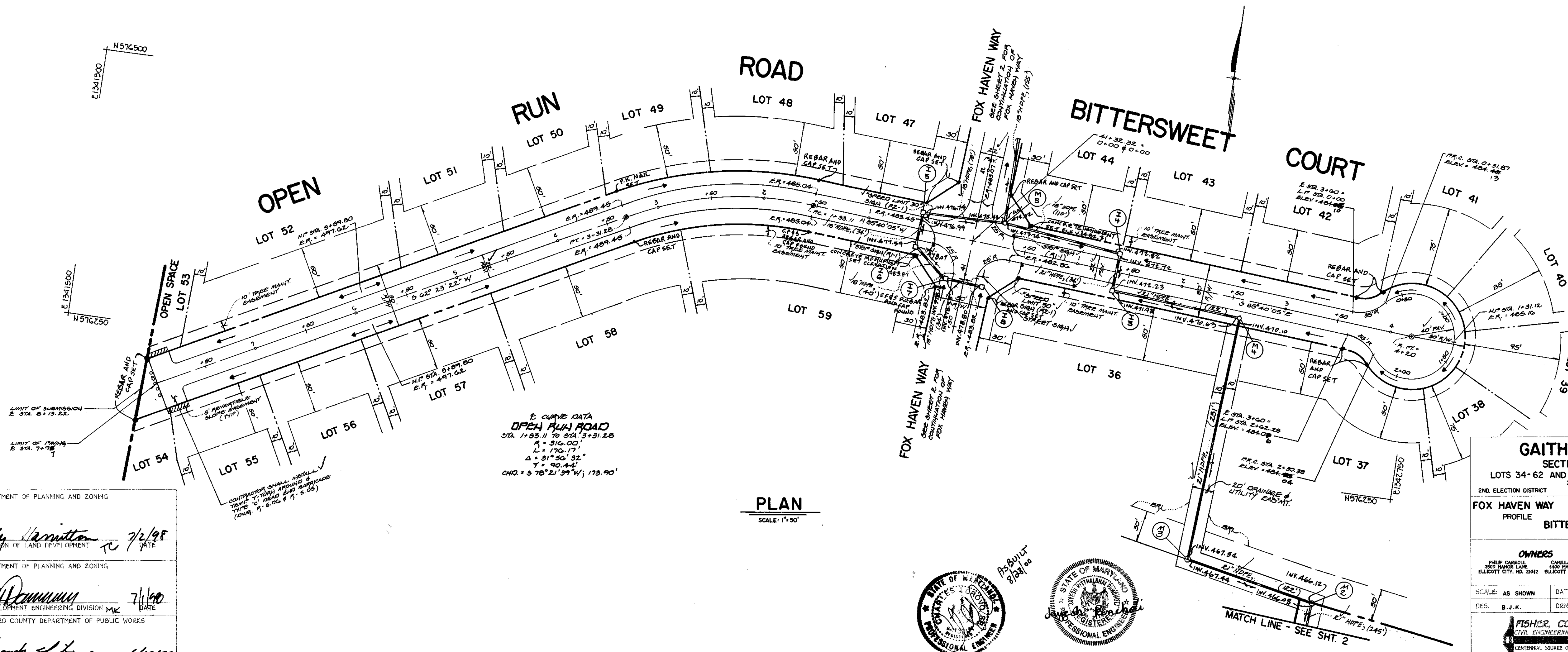
**DEVELOPER**  
 RUSSELL F. FISHER, INC.  
 775 2ND STREET, SUITE 200  
 ELLICOTT CITY, MARYLAND 21042

SCALE: AS SHOWN DATE: JAN 5, 1998 DWG. NO. 2 OF 12  
 DES. B.J.K. DRN. J.C.L. CHK. J.V.P.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 10000 WOODBURN ROAD, SUITE 100  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2995



AS BUILT F-98-76



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Cindy Hamilton* 7/2/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*W.D. Dammann* 7/1/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Howard Shill* 6/19/98  
 CHIEF, BUREAU OF HIGHWAYS

**GAITHER HUNT**  
 SECTION 1, AREA 2  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 2ND ELECTION DISTRICT ZONING: RC-DE2 HOWARD COUNTY, MARYLAND

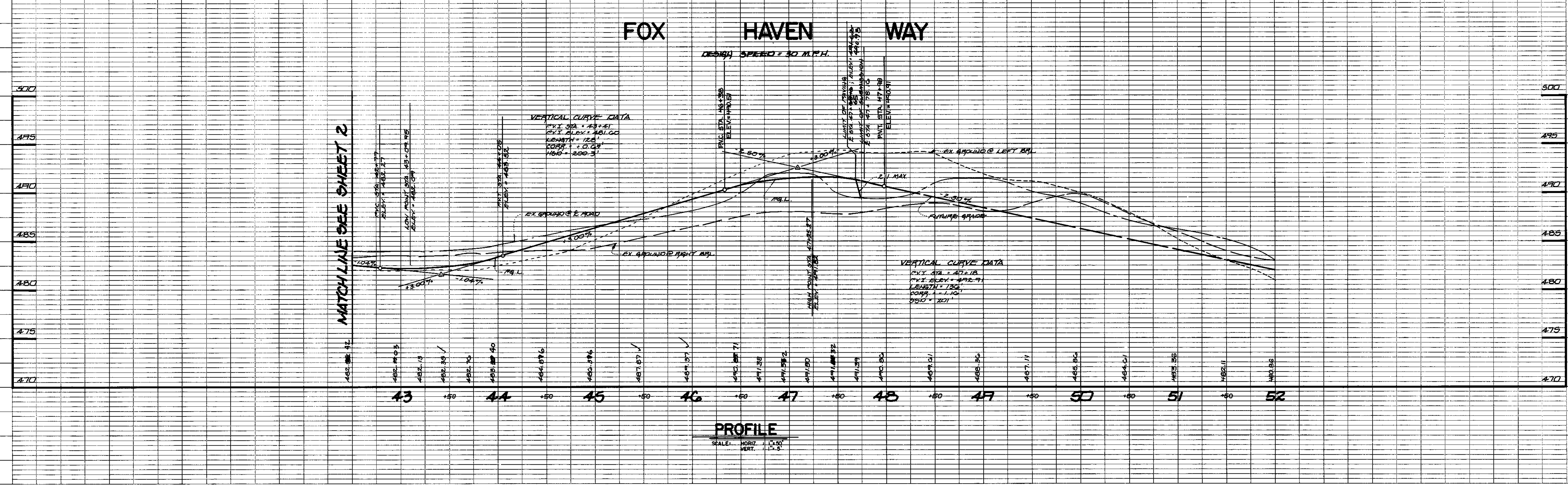
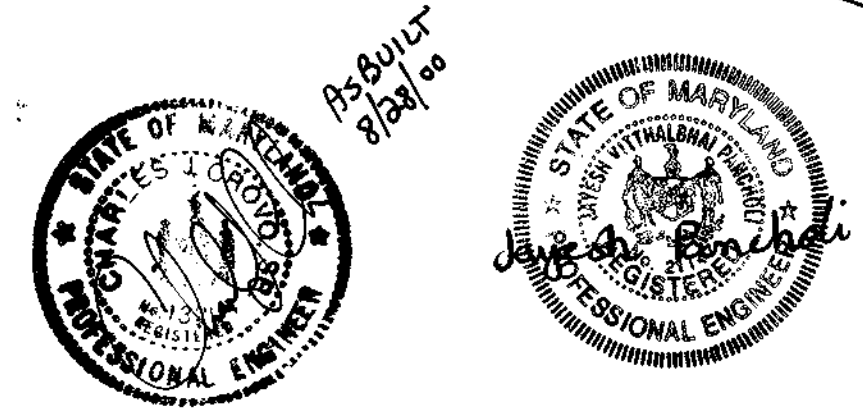
**FOX HAVEN WAY** PROFILE  
**OPEN RUN ROAD** PLAN  
**BITTERSWEET COURT** PLAN

**OWNERS**  
 CHELSEA CARROLL  
 3200 MARINE LANE  
 ELLICOTT CITY, MD 21042

**DEVELOPER**  
 SHELBY DEVELOPMENT, L.L.C.  
 700 W. 70TH STREET  
 SUITE 200  
 ELLICOTT CITY, MARYLAND 21042

SCALE: AS SHOWN DATE: JAN. 5, 1998 DWG. NO. 3 OF 12  
 DES. B.J.K. DRN. J.C.L. CHK. J.V.P.

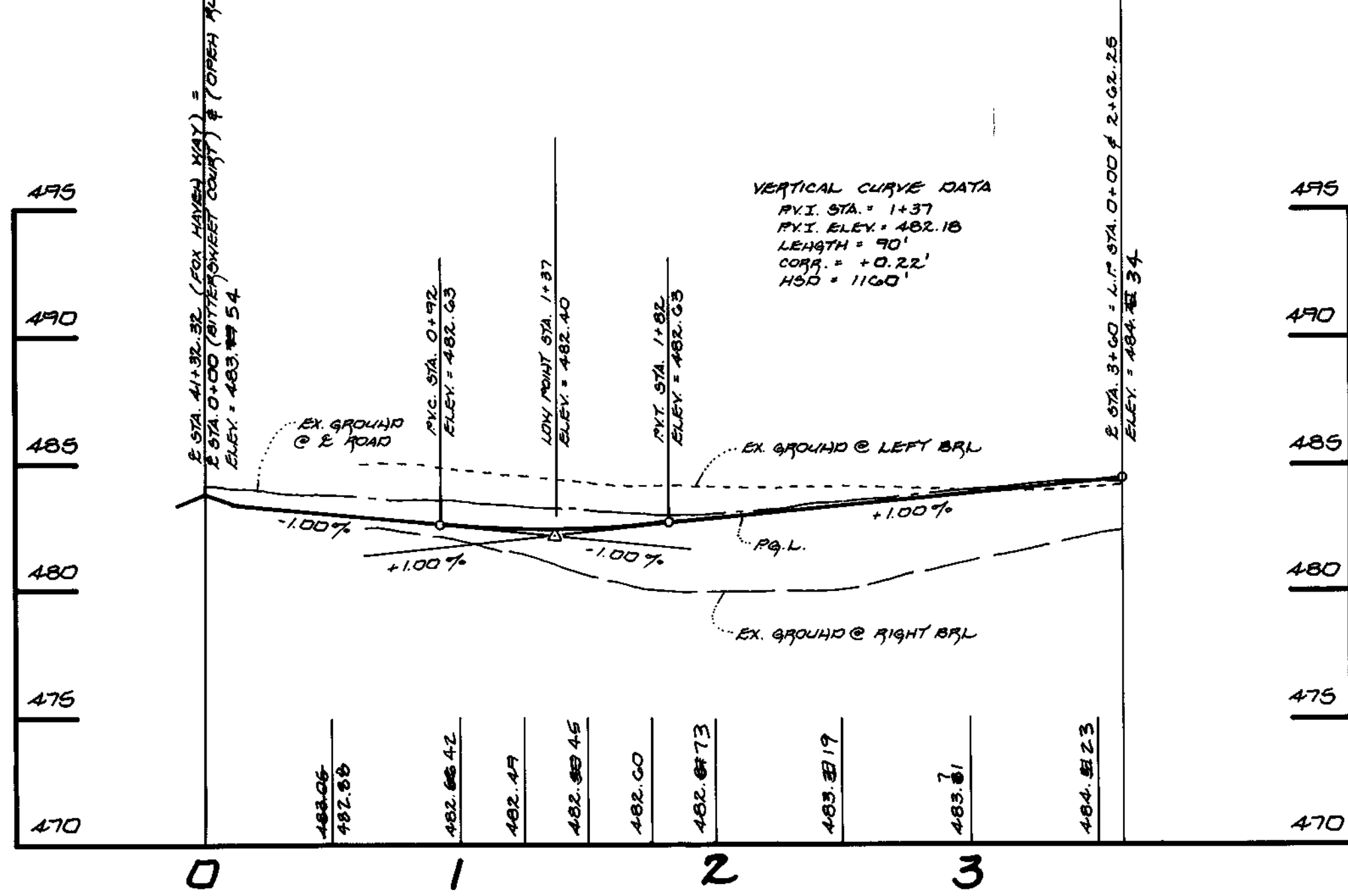
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10775 BALTIMORE NATIONAL Pkwy.  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 481-2855



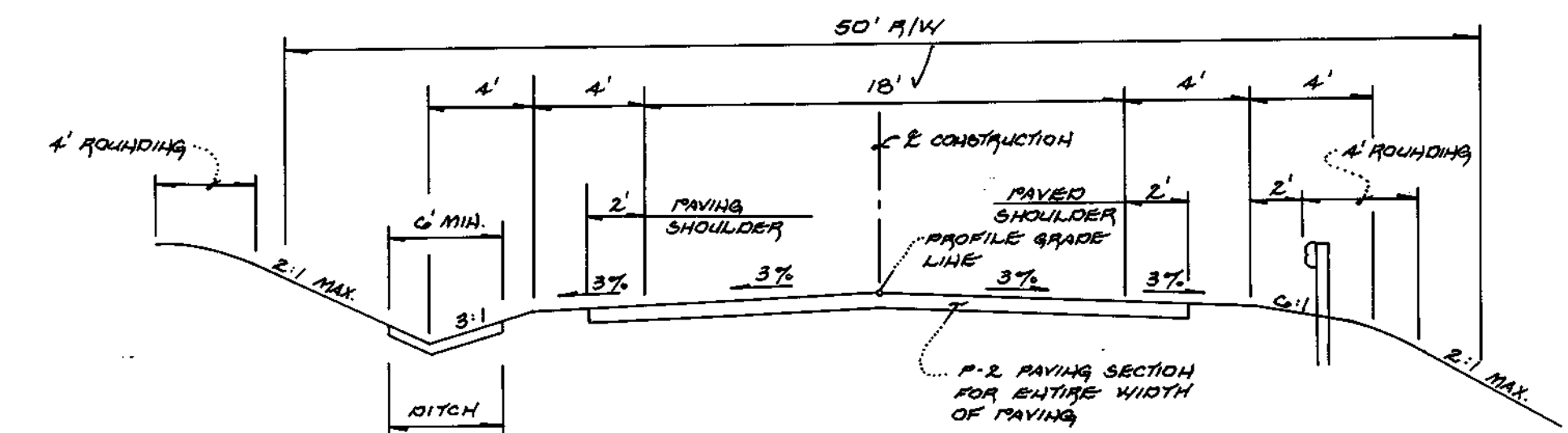
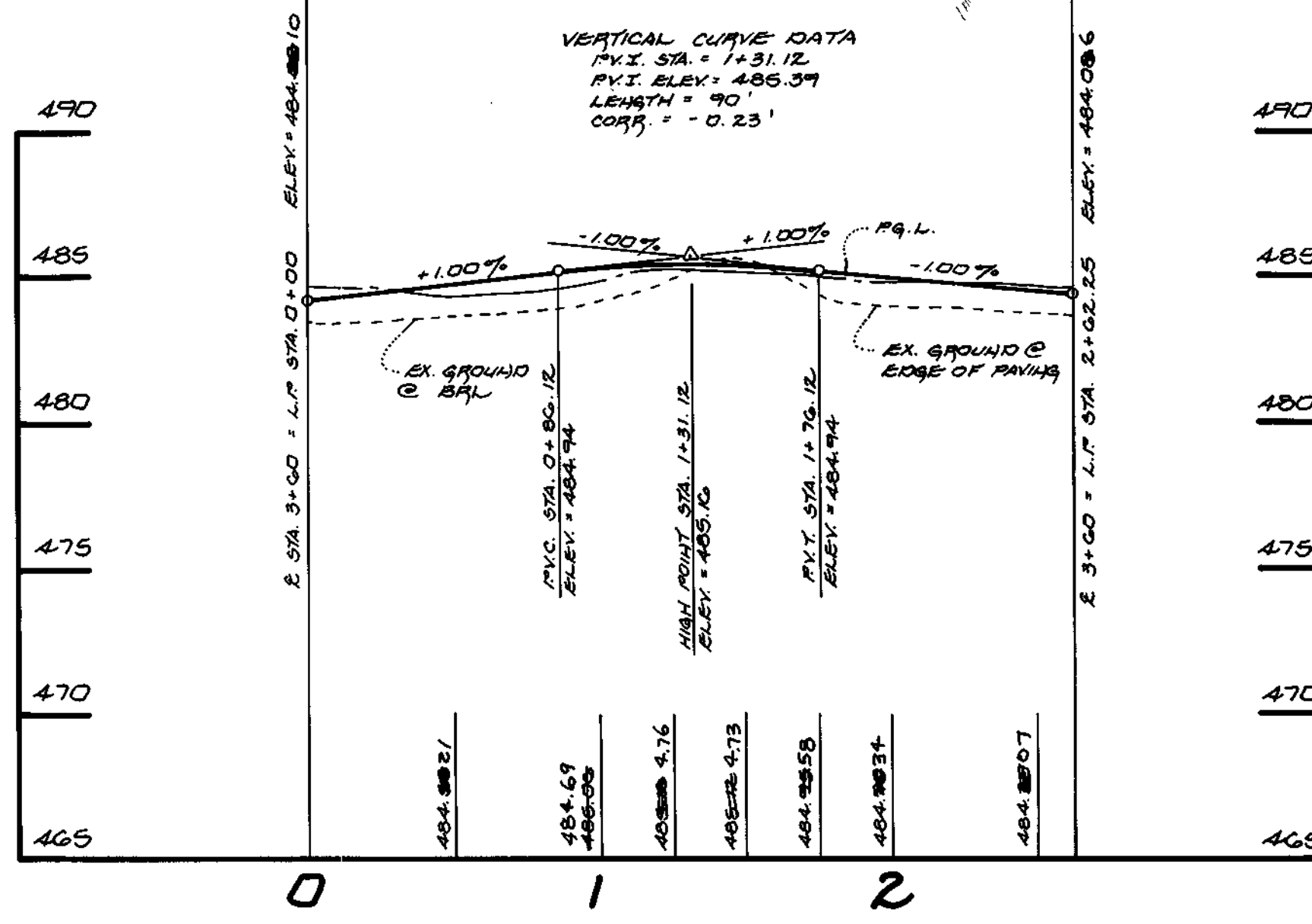
ASBUILT 98-76

# BITTERSWEET COURT

DESIGN SPEED = 25 M.P.H.



# BITTERSWEET COURT LINEAR PROFILE



TYPICAL ROAD SECTION  
(NO SCALE)

ROAD NAME	E STA. LIMITS	DESIGN SPEED	ZONING
FOX HAYEN WAY	32+50 TO 47+88.16	30 M.P.H.	RC-DBO
BITTERSWEET COURT	0+00 TO 4+20	25 M.P.H.	RC-DBO
OPEN RUN ROAD	0+00 TO 7+98	30 M.P.H.	RC-DBO

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 7/2/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 7/1/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 6/19/98  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

## PROFILES

SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**GAITHER HUNT**  
 SECTION 1, AREA 2  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 ZONING RC-DBO HOWARD COUNTY, MARYLAND  
 2ND. ELECTION DISTRICT

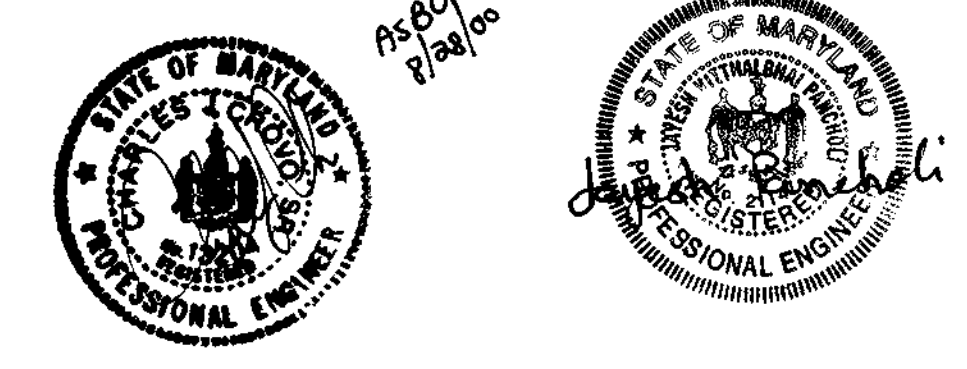
**BITTERSWEET COURT** PROFILE  
**OPEN RUN ROAD** PROFILE  
**TYPICAL ROAD SECTION**

**OWNERS**  
 CHELLA CARROLL  
 3600 PARK LANE  
 ELICOTT CITY, MD. 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, LLC  
 505 JOSEPH L. BROWN BLVD.  
 ELICOTT CITY, MARYLAND 21042

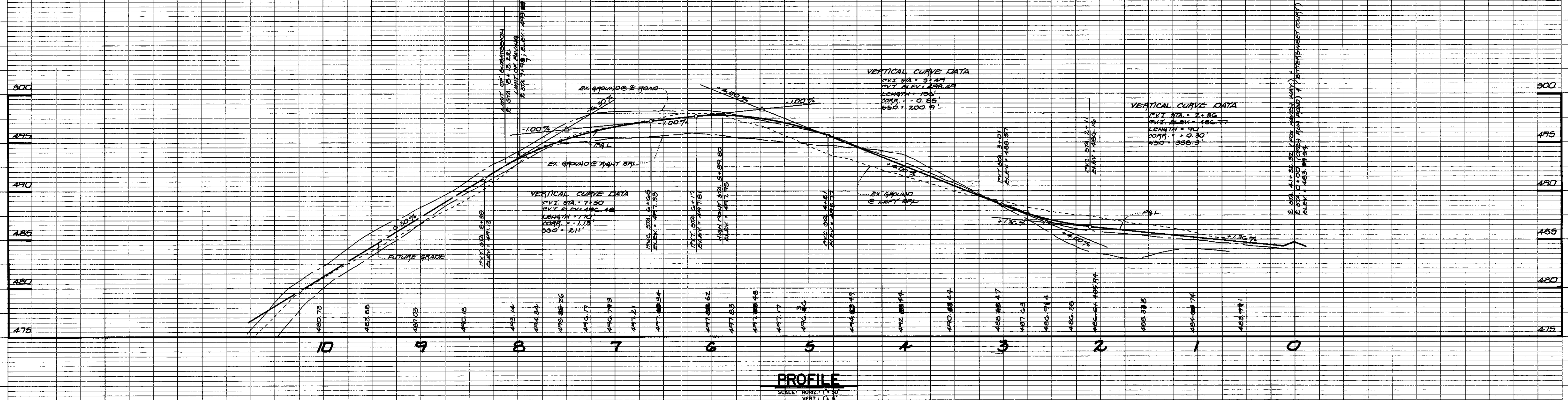
SCALE: AS SHOWN DATE: JAN 5, 1998 DWG. NO. 4 OF 12  
 DES. B.J.K. DRN. J.C.L. CHK. J.V.P.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 481-2055



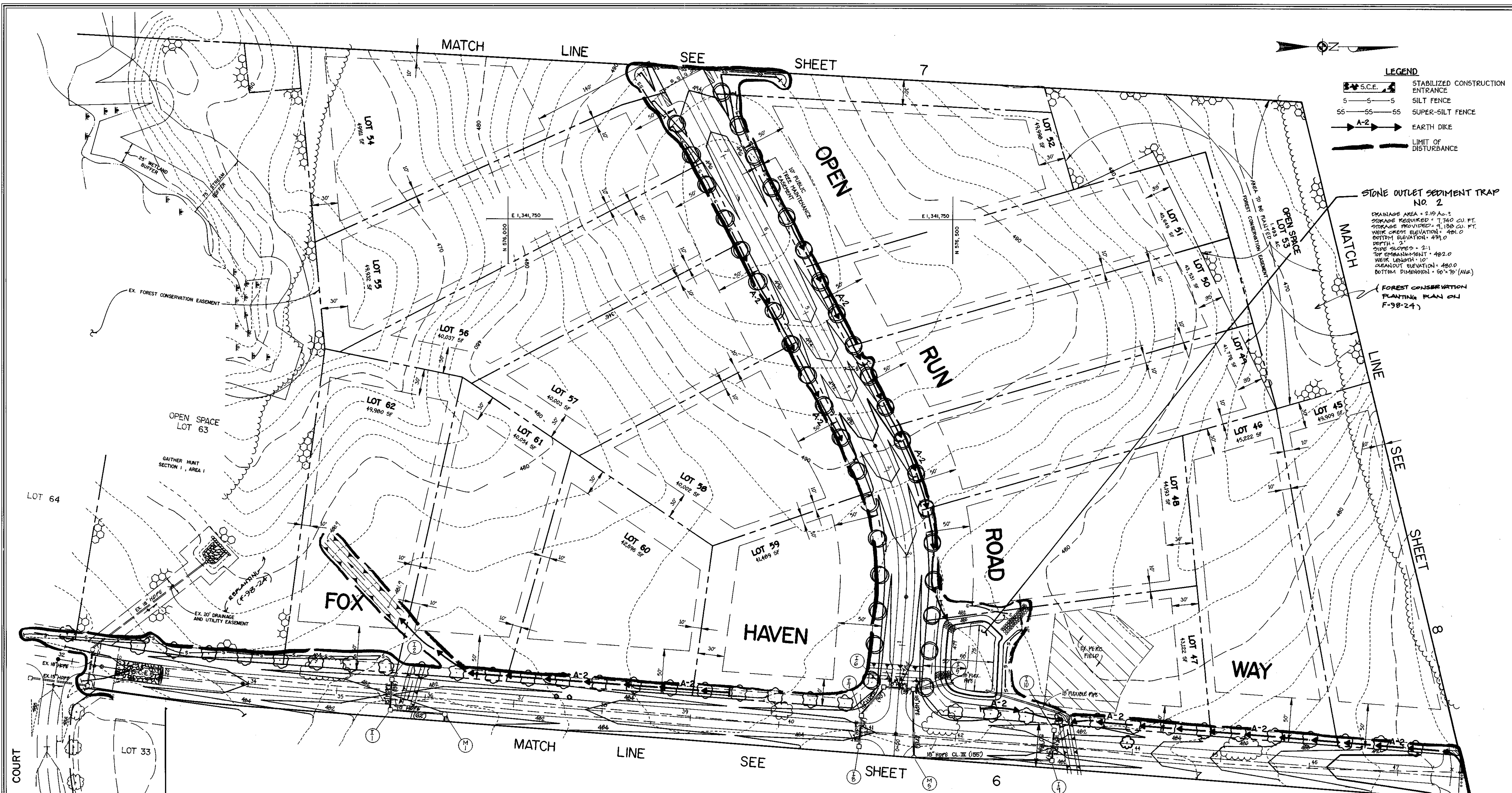
# OPEN RUN ROAD

DESIGN SPEED = 30 M.P.H.



PROFILE  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'





**LEGEND**

	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE
	SUPER-SILT FENCE
	EARTH DIKE
	LIMIT OF DISTURBANCE

**STONE OUTLET SEDIMENT TRAP NO. 2**  
 DRAINAGE AREA = 2.15 AC ±  
 STORAGE REQUIRED = 7,740 CU. FT.  
 STORAGE PROVIDED = 7,130 CU. FT.  
 WEIR CREST ELEVATION = 491.0  
 BOTTOM ELEVATION = 491.0  
 DEPTH = 2'  
 PIPE SLOPE = 2:1  
 TOP EMBANKMENT = 492.0  
 WEIR LENGTH = 10'  
 CLEANOUT ELEVATION = 490.0  
 BOTTOM DIMENSION = 50'-7" (AVE.)

FOREST CONSERVATION PLANTING PLAN ON F-98-24

**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 condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*James R. Burchell* 1-7-98  
 Signature of Engineer Date

**DEVELOPER'S CERTIFICATE**  
 I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources 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.

*[Signature]* 1/7/98  
 Signature of Developer Date

Reviewed for Howard County Soil Conservation District and Meets Technical Requirements.  
*[Signature]* 6/15/98  
 U.S.D.A. - Natural Resources Conservation Service Date

Approved: This Development is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.

*[Signature]* 6/15/98  
 District Howard Soil Conservation Dist. Date

Approved: Department Of Planning And Zoning  
*[Signature]* 7/3/98  
 Chief, Division Of Land Development Date

*[Signature]* 7/1/98  
 Chief, Development Engineering Division Date

Approved: Howard County Department Of Public Works  
*[Signature]* 6/19/98  
 Chief, Bureau Of Highways Date

**PLAN**  
 SCALE: 1"=50'

**STREET TREE SCHEDULE**

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
	ACER BUBRUM "OCTOBER GLORY" RED MAPLE	2 1/2"-3" CALIPER	40' APART ON PUBLIC R/W
	PLATANUS OCCIDENTALIS "BLOODSOON" LONDON PLANETREE	2 1/2"-3" CALIPER	40' APART ON PUBLIC R/W

NOTE:  
 STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:  
 36 STREET TREES (THIS SHEET)  
 37 STREET TREES

**OWNERS**  
 PHILIP CARROLL  
 3500 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

CHAMILLA CARROLL  
 4400 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHRIENER  
 5005 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042



STREET TREE, GRADING AND SEDIMENT CONTROL PLAN  
**GATHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"

TAX MAP No. 23 PARCEL: 28 + GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 5 OF 12

AS BUILT F-98-76

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SERVICE OFFICE: 10772 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21114  
 410-461-2955





**ENGINEER'S CERTIFICATE**  
 I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.  
 Signature Of Engineer: James Panchali Date: 1-7-98

**DEVELOPER'S CERTIFICATE**  
 "I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources 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."  
 Signature Of Developer: [Signature] Date: 1/7/98

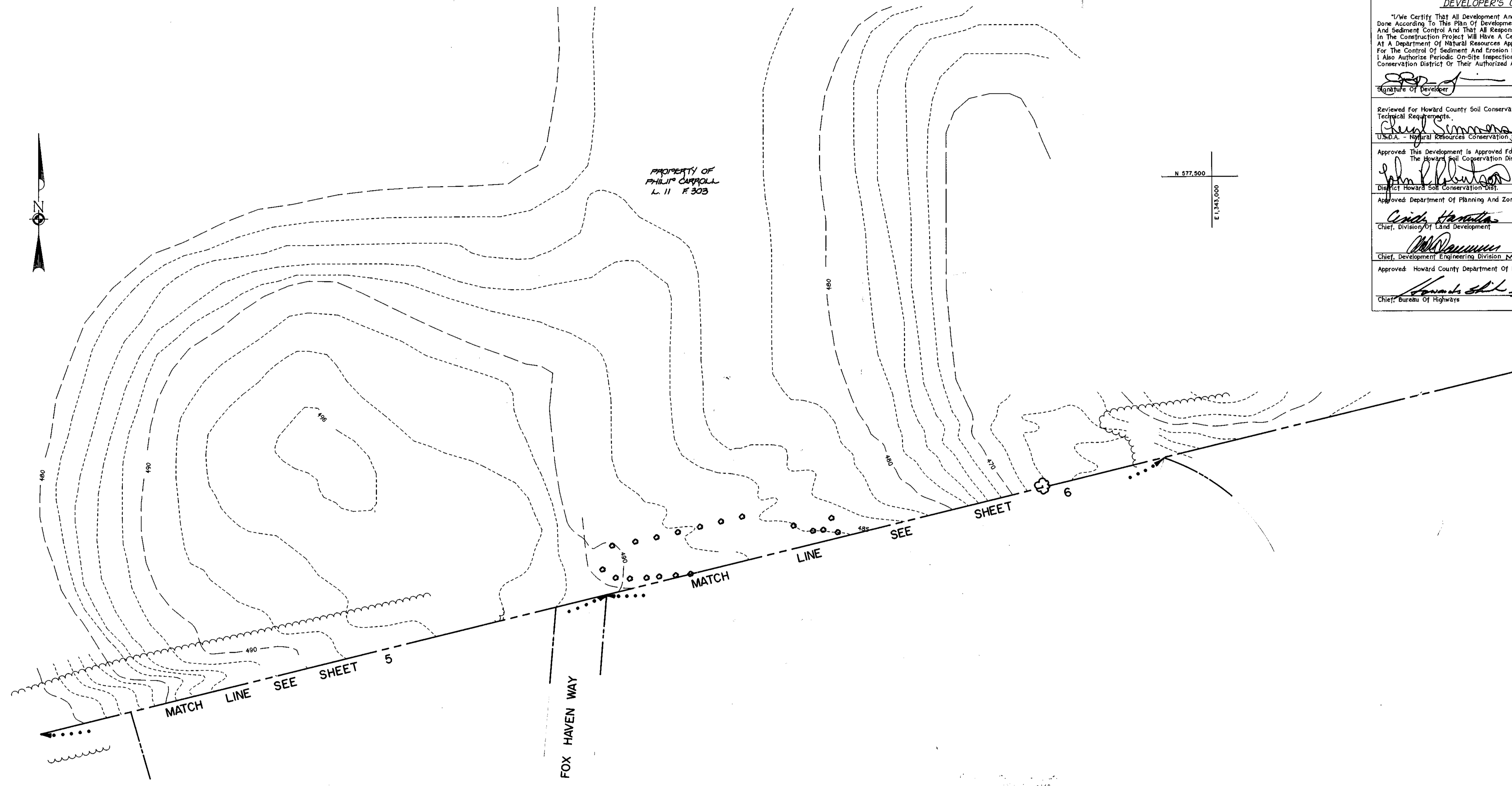
Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.  
 U.S.D.A. - Natural Resources Conservation Service  
 Signature: Carol Simmons Date: 6/15/98

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.  
 District Howard Soil Conservation Dist.  
 Signature: John P. Blanton Date: 6/15/98

Approved: Department Of Planning And Zoning  
 Chief, Division Of Land Development  
 Signature: Carol Hamilton Date: 7/2/98

Chief, Development Engineering Division  
 Signature: [Signature] Date: 7/1/98

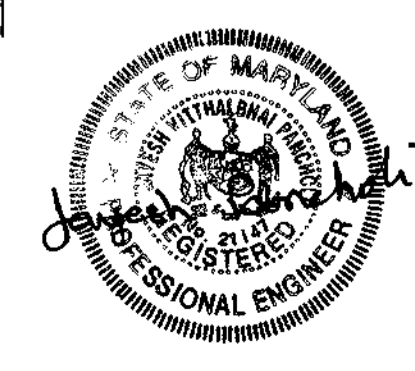
Approved: Howard County Department Of Public Works  
 Chief, Bureau Of Highways  
 Signature: Howard S. L. A. Date: 6/19/98



**PLAN**  
 SCALE: 1" = 50'

**OWNERS**  
 PHILIP CARROLL 3500 MANOR LANE ELLICOTT CITY, MARYLAND 21042  
 CAMILLA CARROLL 4400 MANOR LANE ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHRIVENER  
 5008 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042



**STREET TREE, GRADING AND SEDIMENT CONTROL PLAN**  
**GAITHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCELS 120 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 8 OF 12

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTURIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 441-2999

30560STREETTREE GRADING PLAN.DWG

**AS BUILT F-98-76**

SCHEDULE A PERIMETER LANDSCAPE EDGE

PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)		CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)		NUMBER OF PLANTS PROVIDED				
				SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES	EVERGREEN TREES	OTHER TREES (OR SUBSTITUTION)	SHRUBS (OR SUBSTITUTION)		
P-1	ADJACENT TO PERIMETER	A	710'	YES	190'	NO	8	-	-	8	-	-
P-2	ADJACENT TO PERIMETER	A	845'	YES	60'	NO	13	-	-	13	-	-
P-3	ADJACENT TO PERIMETER	A	690'	NO		NO	11	-	-	11	-	-
P-4	ADJACENT TO PERIMETER	A	435'	YES	230'	NO	3	-	-	3	-	-
P-5	ADJACENT TO PERIMETER	A	600'	YES	30'	NO	8	-	-	8	-	-
P-6	ADJACENT TO PERIMETER	A	550'	YES	400'	NO	2	-	-	2	-	-
P-7	ADJACENT TO PERIMETER	A	460'	NO		NO	7	-	-	7	-	-
P-8	ADJACENT TO PERIMETER	A	235'	NO		NO	3	-	-	3	-	-

PLANT LIST

QTY.	KSZ	NAME	SIZE
55	Ø	ACER RUBRUM 'OCTOBER GLOK' (OCTOBER RED MAPLE)	2 - 2 1/2" CAL. FULL CROWN D & B

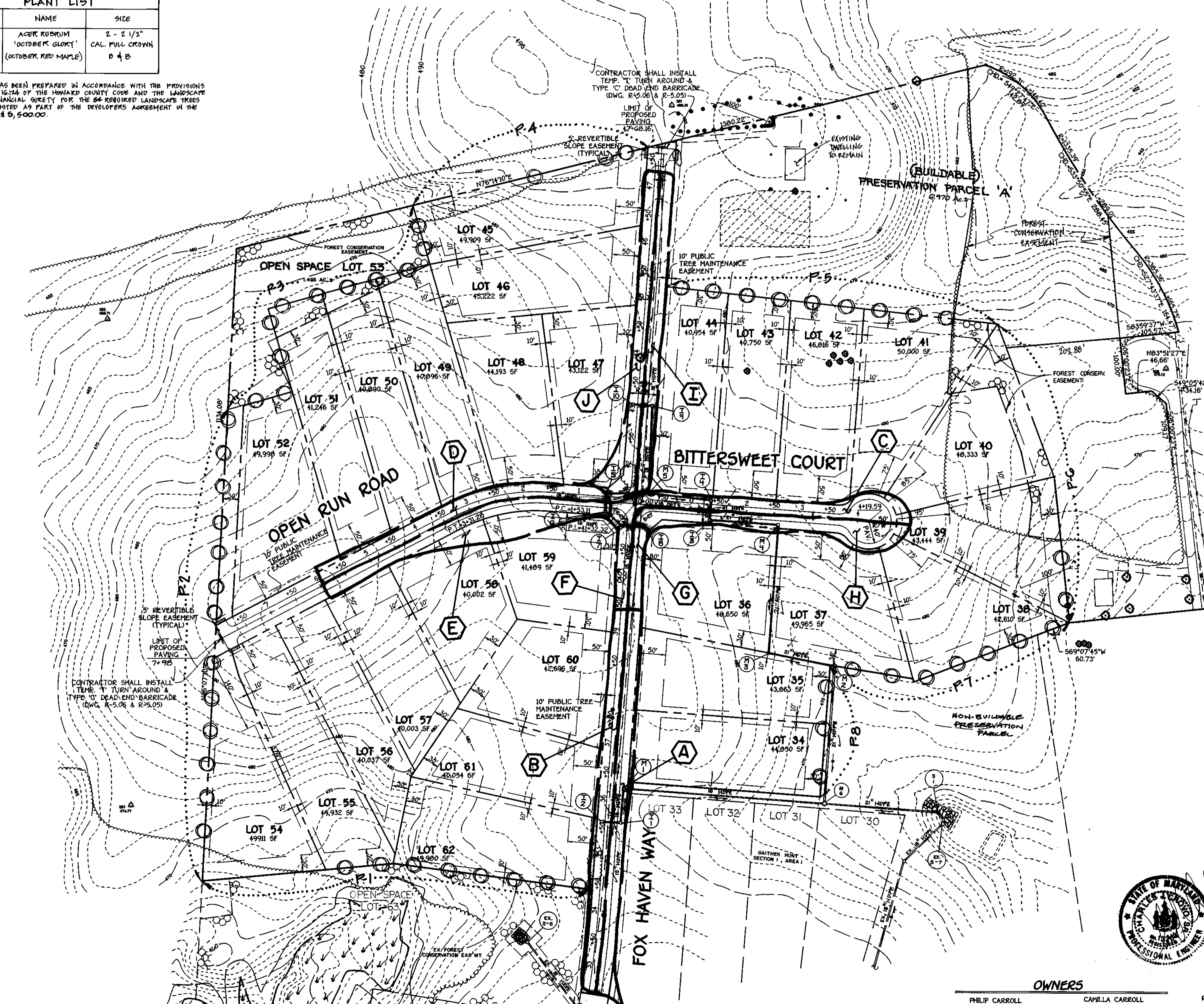
\* THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MAINTENANCE FINANCIAL SURETY FOR THE 54 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$5,500.00.

Approved: Department of Planning And Zoning  
 Chief, Division of Land Development  
 [Signature] 7/2/95  
 Date

Approved: Chief, Development Engineering Division MK  
 Chief, Bureau of Highways  
 [Signature] 7/1/95  
 Date

Approved: Howard County Department Of Public Works  
 Chief, Bureau Of Highways  
 [Signature] 6/19/95  
 Date

N 577,500  
 E 1334,500



N 576,000  
 E 1341,000

N 576,000  
 E 1343,500

DRAINAGE AREAS

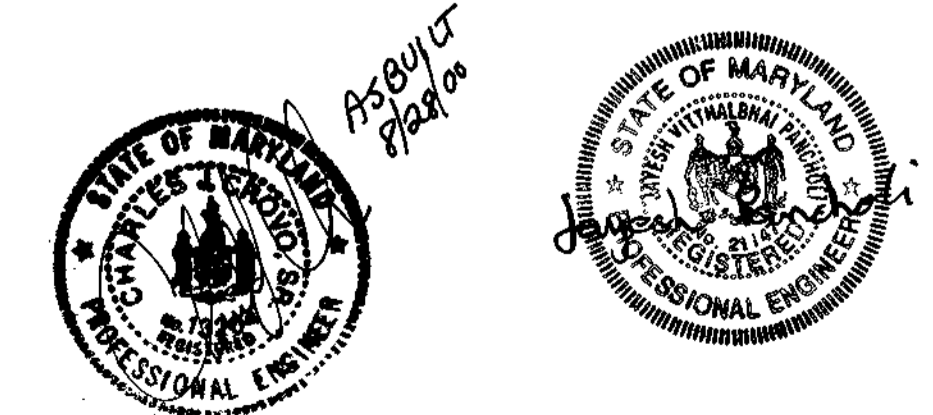
INLET	D.A.	AREA AC.	'C'	ZONED	XIMP
I-1	A	0.43	0.53	RC-DEO	39
I-2	B	0.42	0.53	RC-DEO	40
I-3	C	0.40	0.56	RC-DEO	45
I-4	H	0.41	0.56	RC-DEO	44
I-5	D	0.38	0.52	RC-DEO	39
I-6	E	0.56	0.50	RC-DEO	38
I-7	F	0.09	0.56	RC-DEO	44
I-8	G	0.10	0.53	RC-DEO	40
I-9	I	0.31	0.56	RC-DEO	45
I-10	J	0.41	0.52	RC-DEO	39

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 1000 46 - 2005

OWNERS  
 PHILIP CARROLL  
 3500 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

CAMILLA CARROLL  
 4400 MANOR LANE  
 ELLICOTT CITY, MARYLAND 21042

DEVELOPER  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHRIVENER  
 5026 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042



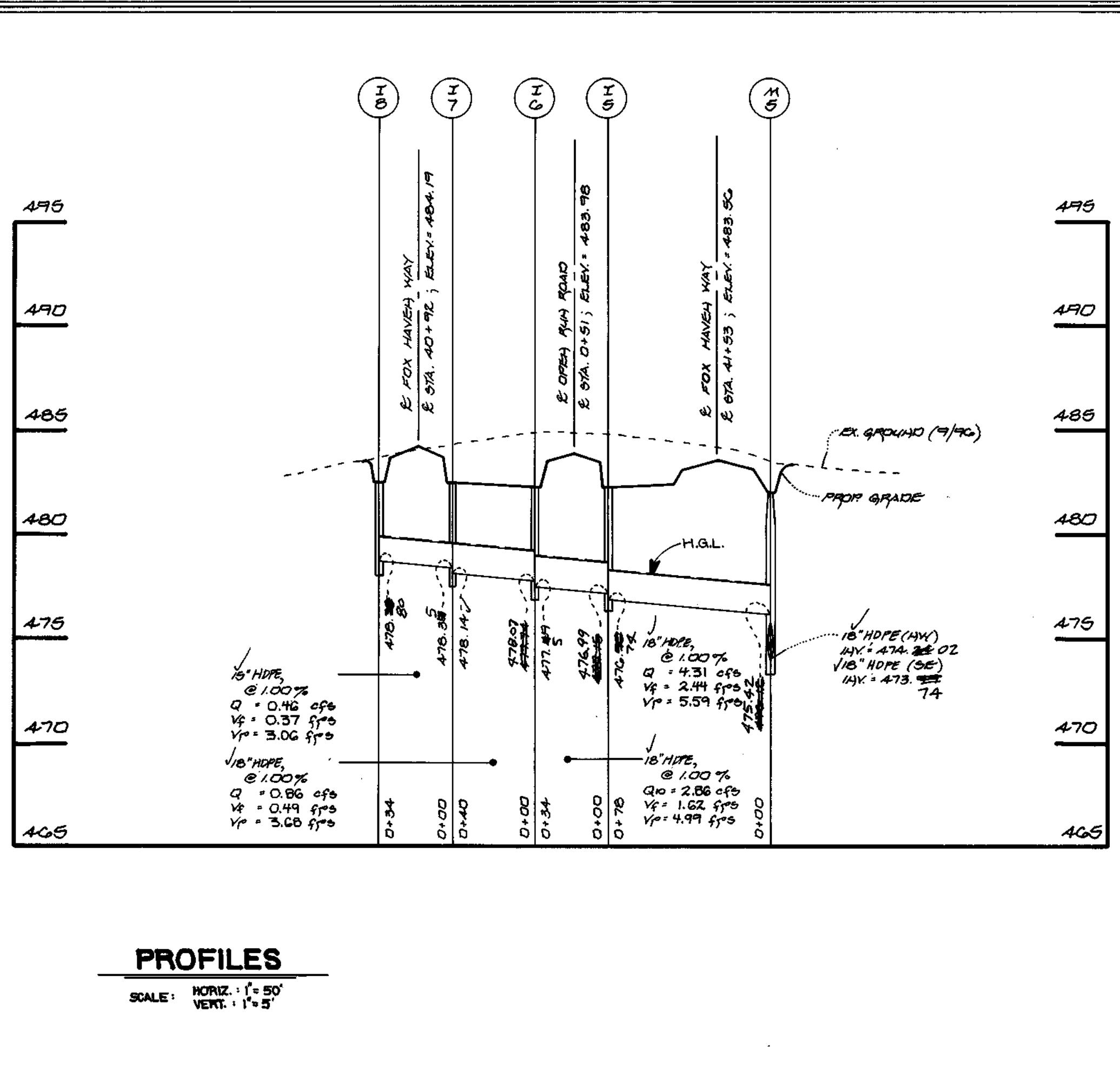
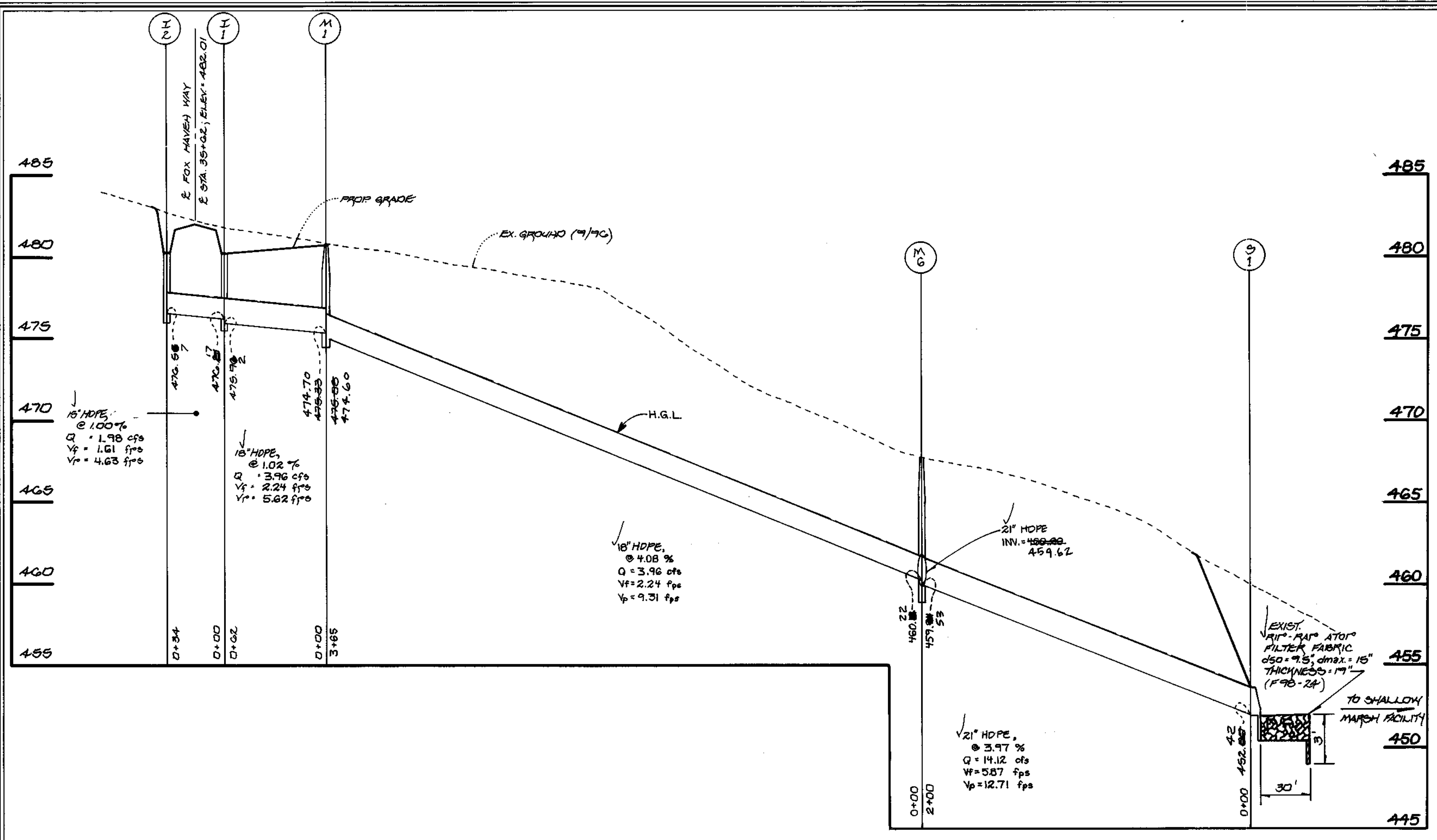
DRAINAGE AREA MAP AND LANDSCAPE PLAN  
**GATHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCEL 12B GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 100' DATE: JAN. 5, 1998  
 SHEET 9 OF 12

AS BUILT F-98-76

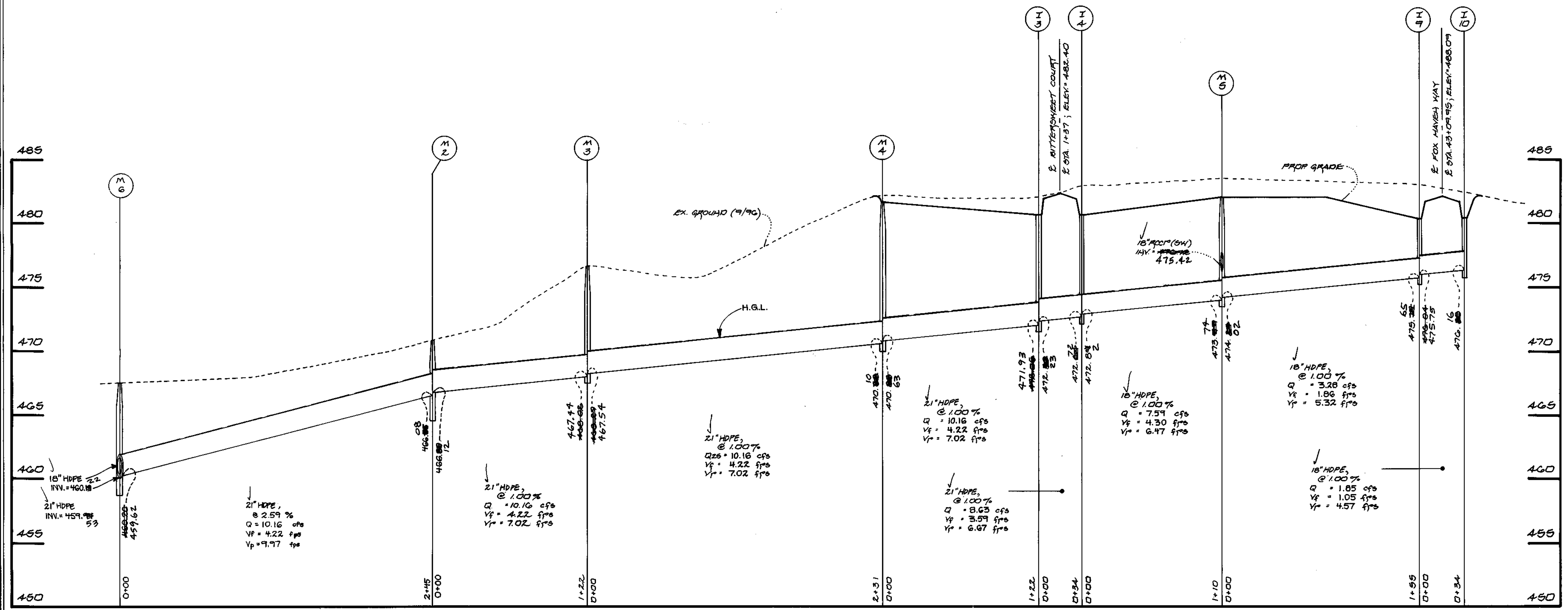
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Division of Land Development *Linda Hamilton* 7/2/98  
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division *Bill Gumm* 7/1/98  
 DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Highways *Howard Shick* 6/19/98  
 DATE



**PROFILES**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'



**PROFILE**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2855

**OWNERS**  
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 CAMILLA CARROLL 4400 MANOR LANE ELLICOTT CITY, MARYLAND 21042

**DEVELOPER**  
 RUSSELL DEVELOPMENT, L.L.C.  
 c/o MR. J. TOM SCHRIVENER  
 5026 DORSEY HALL DRIVE-SUITE 204  
 ELLICOTT CITY, MARYLAND 21042

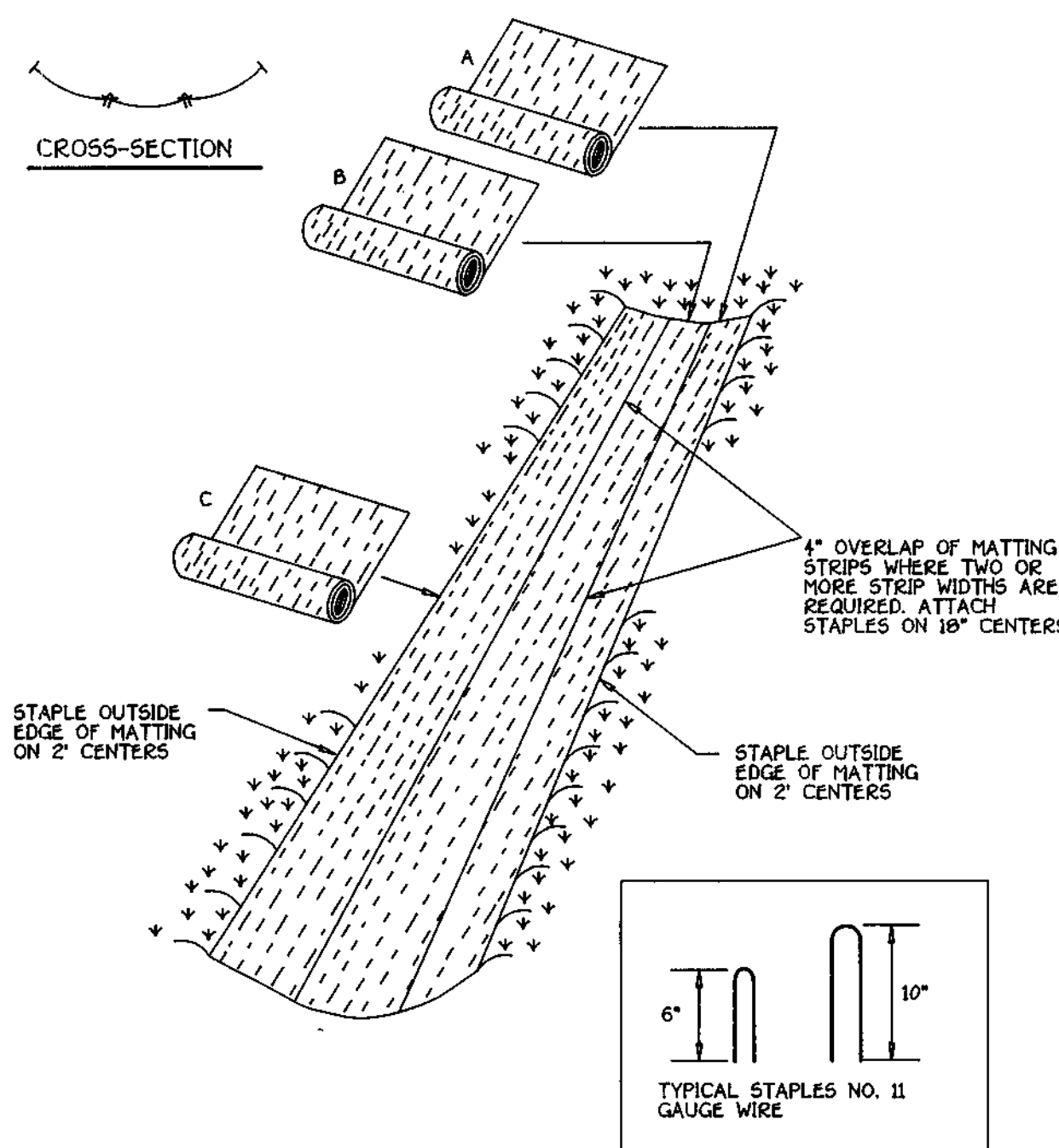


STORM DRAIN PROFILES  
**GAITHER HUNT**  
 SECTION ONE AREA TWO  
 LOTS 34-62 AND  
 PRESERVATION PARCEL 'A'  
 ZONING: "RC-DEO"  
 TAX MAP No. 23 PARCEL 128 GRID 23  
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JAN. 5, 1998  
 SHEET 10 OF 12

AS BUILT F-98-76

STRUCTURE SCHEDULE									
STRUCTURE NO.	TOP ELEVATION	THROAT ELEVATION	INV. IN	INV. OUT	ROAD NAME	ROAD STA.	OFFSET	TYPE	REMARKS
I-1	401.54	400.29	476.88 17	475.98 2	FOX HAVEN WAY	C.L. STA. 35+68.65	17' RT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-2	401.84 2.7	400.29	---	476.58 7	FOX HAVEN WAY	C.L. STA. 35+68.65	17' LT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-3	401.93 5.6	400.68	472.88 23	472.05 11.93	BITTERSWEET COURT	C.L. STA. 1+37	16.58 RT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-4	401.88 3.7	400.68	472.88 2	472.88 12	BITTERSWEET COURT	C.L. STA. 1+37	16.58 LT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-5	403.85 2.9	402.37	477.15 476.99	476.88 7.4	OPEN RUN ROAD	C.L. STA. 0+52	16.68 RT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-6	403.88 3.9	402.37	477.15 476.99	477.88 3.9	OPEN RUN ROAD	C.L. STA. 0+52	16.68 LT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-7	403.88 3.7	402.47	478.38 5	478.14	FOX HAVEN WAY	C.L. STA. 40+92	17.58 LT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-8	403.88 3.6	402.47	---	478.38 8.0	FOX HAVEN WAY	C.L. STA. 40+92	17.58 RT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-9	401.88 2.6	400.37	476.04 476.75	475.88 6.5	FOX HAVEN WAY	C.L. STA. 43+09.95	17' RT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
I-10	401.88 3.4	400.37	---	476.88 16	FOX HAVEN WAY	C.L. STA. 43+09.95	16.58 LT	✓ K' INLET	S.D. 4.12 W/S.D. 4.36
M-1	400.88 6.5	---	475.88 474.74	475.88 0.0	FOX HAVEN WAY	C.L. STA. 36+24.5	18.08 RT	STD. MANHOLE	G. 5.12
M-2	401.88 10.4	---	468.88 12	468.88 0.0	---	N 576,148.888 7.1 E 1,342,888.888 4.5	---	STD. MANHOLE	G. 5.12
M-3	476.88 0.3	---	468.88 467.64	468.88 0.0	---	N 576,148.888 7.1 E 1,342,888.888 4.5	---	STD. MANHOLE	G. 5.12
M-4	401.88 6.6	---	470.88 6.3	470.88 1.0	BITTERSWEET COURT	C.L. STA. 2+58.60	16.58 RT	STD. MANHOLE	G. 5.12
M-5	402.88 3.2	---	474.88 0.3	473.88 7.4	BITTERSWEET COURT	C.L. STA. 0+25	22' LT	STD. MANHOLE	G. 5.12
M-6	407.88 3.7	---	460.88 459.88	459.88 5.3	---	N 576,888.888 4.7 E 1,342,888.888 4.2	---	STD. MANHOLE	G. 5.12
S-1	454.75 454.17	---	452.88 4.2	452.88 4.2	---	N 576,888.888 4.7 E 1,342,888.888 4.2	---	CONC. END SECTION	S.D. 5.52

DETAIL 30 - EROSION CONTROL MATTING



- Construction Specifications
- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
  - Staple the 4" overlap in the channel center using an 18" spacing between staples.
  - Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
  - Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
  - Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shingle fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
  - The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

**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 condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
Signature of Engineer: *Joseph Pancheli* Date: 1-7-98

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources 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.  
Signature of Developer: *[Signature]* Date: 1/7/98

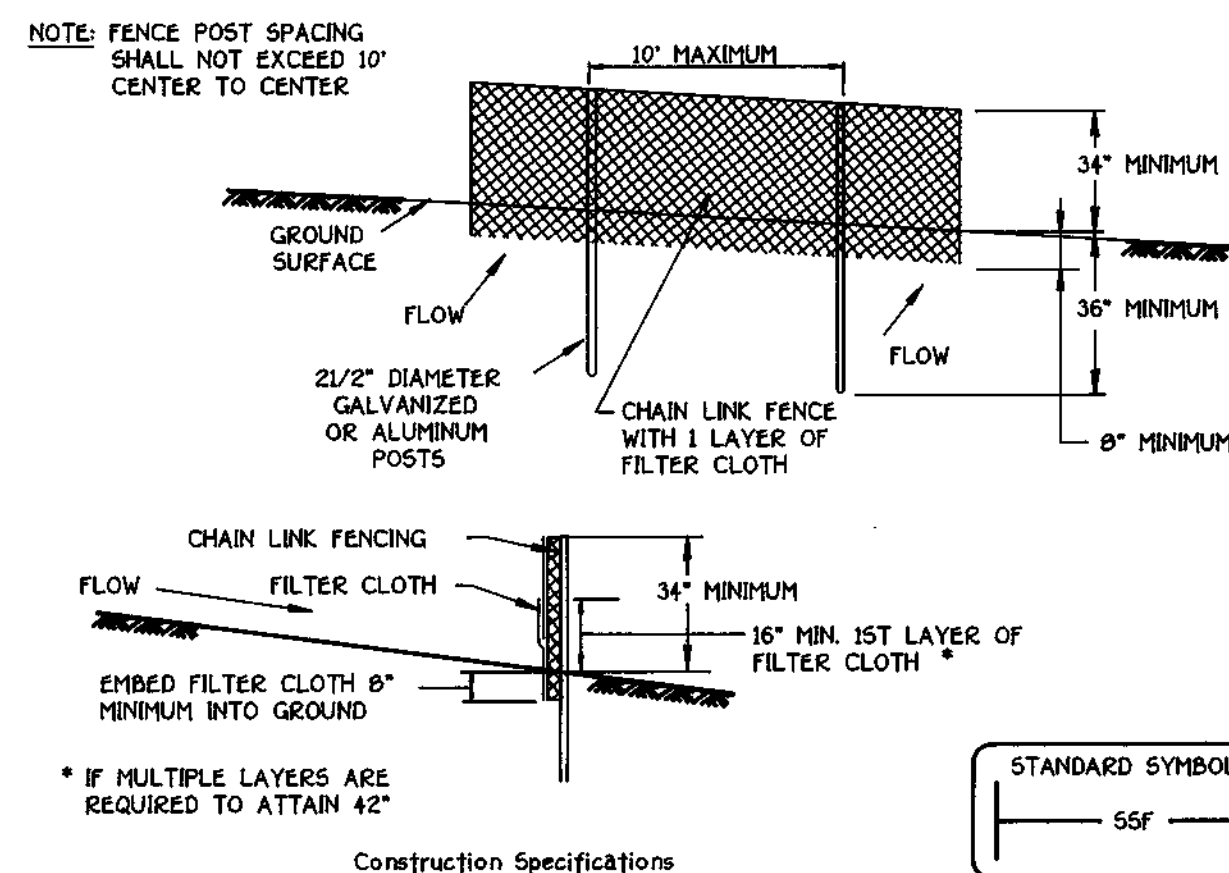
Reviewed for Howard County Soil Conservation District and Meets Technical Requirements.  
U.S.D.A. - Natural Resources Conservation Service Date: *[Signature]*

Approved: This Development is Approved for Erosion and Sediment Control By The Howard Soil Conservation District.  
District Howard Soil Conservation Dist. Date: *[Signature]*

Approved: Department of Planning and Zoning  
Chief, Division of Land Development: *Cathy Hamstra* Date: 7/2/98

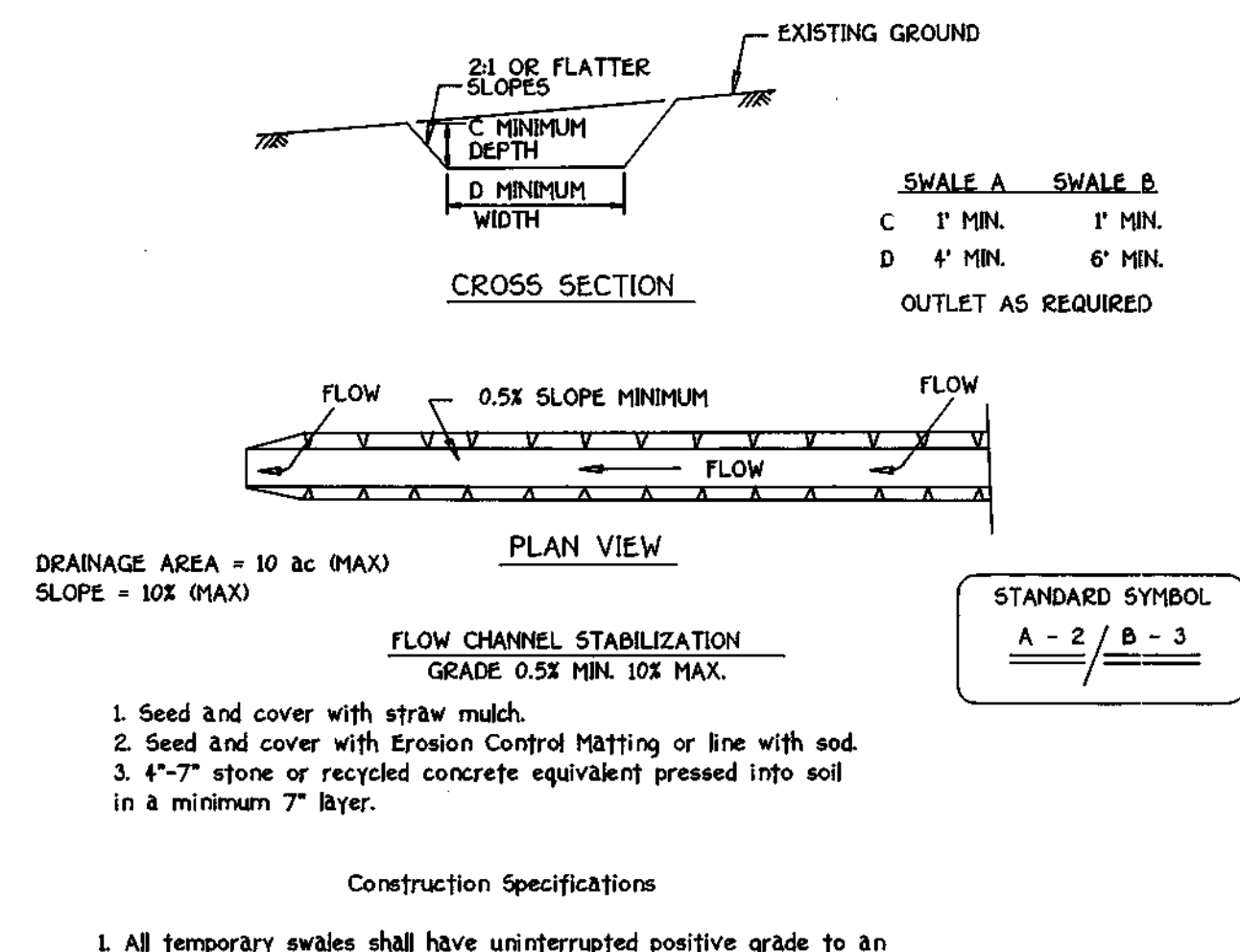
Approved: Howard County Department of Public Works  
Chief, Bureau of Highways: *[Signature]* Date: 6/19/98

DETAIL 33 - SUPER SILT FENCE



- NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER
- Construction Specifications
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
  - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
  - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
  - Filter cloth shall be embedded a minimum of 8" into the ground.
  - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
  - Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
  - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
- |                      |                          |                |
|----------------------|--------------------------|----------------|
| Tensile Strength     | 50 lbs/in (min)          | Test: MSMT 509 |
| Tensile Modulus      | 20 lbs/in (min)          | Test: MSMT 509 |
| Flow Rate            | 0.3 gal/ft /minutē (max) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min)                | Test: MSMT 322 |

TEMPORARY SWALE



- Construction Specifications
- All temporary swales shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
  - Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
  - Runoff diverted from an undisturbed area shall outlet directly into an undisturbed stabilized area at a non-erosive velocity.
  - All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
  - The swale shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
  - Fill, if necessary, shall be compacted by earth moving equipment.
  - All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the swale.
  - Inspection and maintenance must be provided periodically and after each rain event.

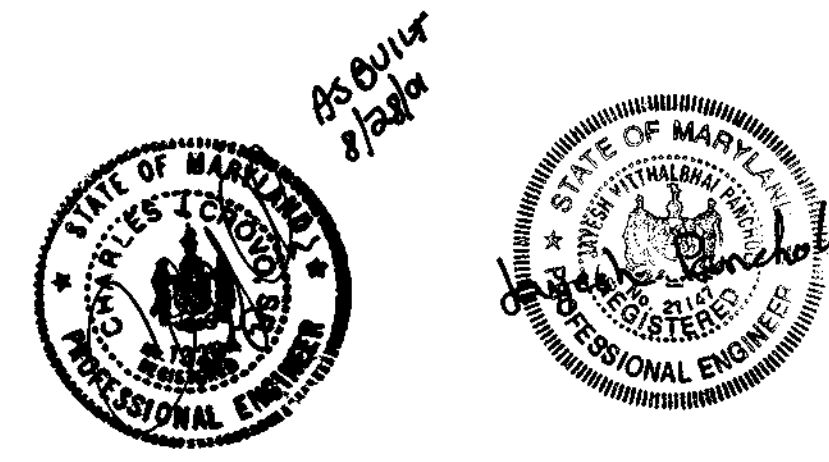
SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT
  - NOTIFY "MISS UTILITY" 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION AT (410) 313-1000 (5) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
  - INSTALL SEDIMENT CONTROL MEASURES, STABILIZED CONSTRUCTION ENTRANCE, STONE OUTLET SEDIMENT TRAPS, EARTH DIKES, SUPER-SILT FENCE, SILT FENCE, EROSION CONTROL MATTING AND TEMPORARY SWALES. STABILIZE DISTURBED AREAS PER TEMPORARY SEEDING NOTES. (1 WEEK)
  - GRADE ROAD TO SUBGRADE AND INSTALL STORM DRAINS, INLETS AND TEMPORARY FLEXIBLE PIPE. BLOCK I-1 TO I-4 AND I-5 TO I-5. (2 WEEKS)
  - CONSTRUCT ROAD. (2 WEEKS)
  - OBTAIN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO REMOVE SEDIMENT CONTROL. (2 DAYS)
  - UNBLOCK I-1 TO I-4 AND I-5 TO I-5.
  - STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING. (2 DAYS)
- NOTE: CONTRACTOR TO ASSURE POSITIVE FLOW IN THE TEMPORARY SWALE AT ALL TIME.
- NOTE: ANY EARTH DIKES INTERRUPTED BY THE INSTALLATION OF A STORMDRAIN OR UTILITY SHALL BE REPAIRED IMMEDIATELY.

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DETAIL SHEET  
GATHER HUNT  
SECTION ONE AREA TWO  
LOTS 34-62 AND  
PRESERVATION PARCEL 'A'  
ZONING: "RC-DEO"  
TAX MAP No. 23 PARCEL 128 GRID 23  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: JAN. 5, 1998  
SHEET 11 OF 12

ASBUILT F-98-76