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4	CARROLL WIND DRIVE - PLAN & PROFILE, GROUND MILL COURT - PLAN & PROFILE, MILLDAM CT. - PLAN
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FINAL ROAD CONSTRUCTION AND STORM DRAIN PLANS DANIELS MILL OVERLOOK SECTION 2 AREA 4 LOTS 177 THRU 228 TAX MAP NO. 17 PARCEL NOS. 41 AND 547 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

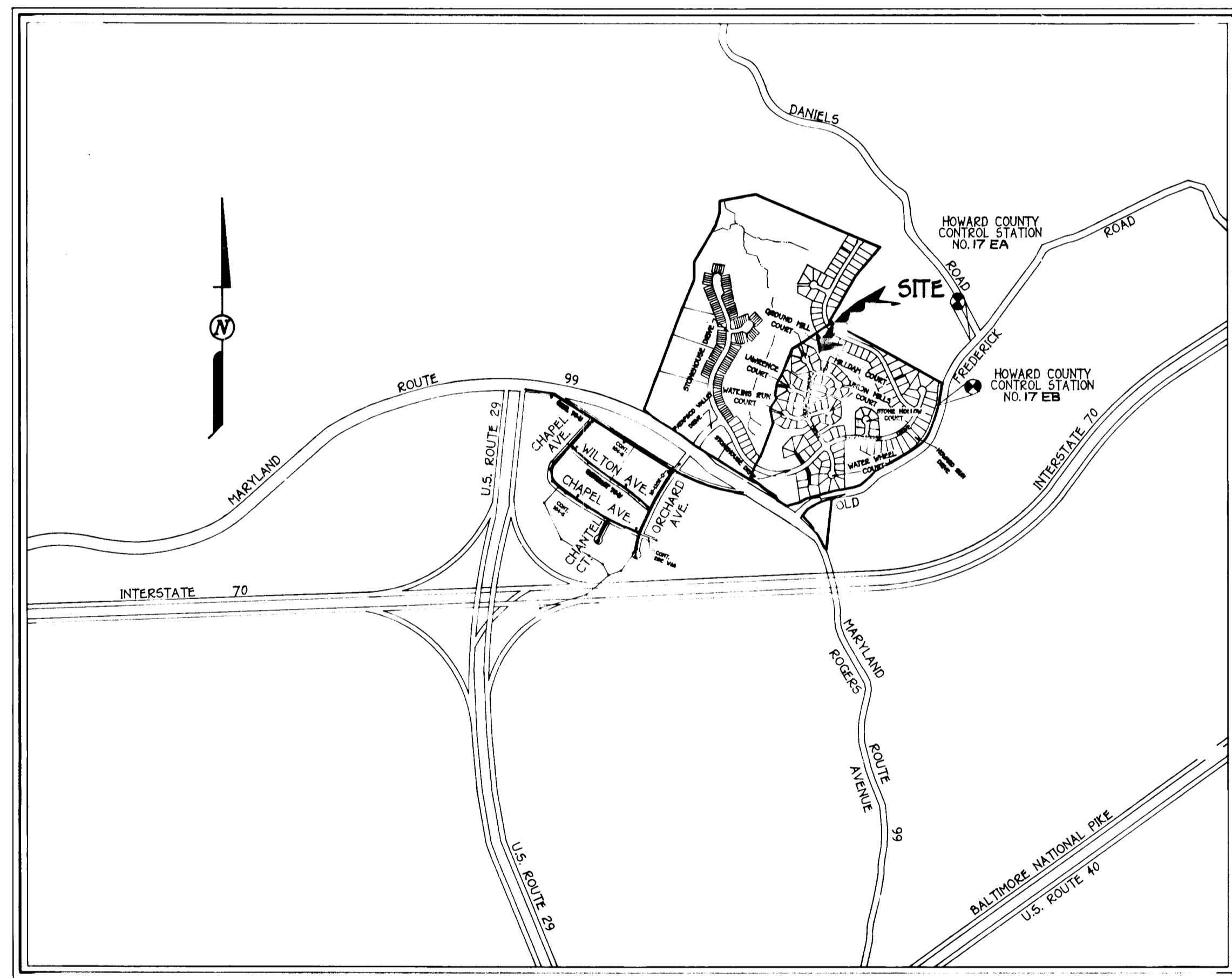
APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Steiner 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Michael Bloss 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

William J. C. 2/25/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

STREET LIGHT CHART				
DWG. No.	STREET NAME	STATION	OFF-SET	FIXTURE/POLE TYPE
2	STONE HOLLOW COURT	L.P. STA. 1+75	2' L	100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE
3	UNION MILLS COURT	L.P. STA. 1+22	2' L	100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE
3	LAWRENCE MILL COURT	L.P. STA. 0+95	2' L	100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE
4	MILLDAM COURT	0+26	18' L	100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE
4	MILLDAM COURT	L.P. STA. 1+H	2' L	100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE

TRAFFIC CONTROL SIGNS					
STREET NAME	STATION	OFFSET	POSTED SIGN	SIGN CODE	
LAWRENCE MILL COURT	0+38	14' L	STOP	R1-1	
MILLDAM COURT	0+38	14' L	STOP	R1-1	
CARROLL WIND DRIVE	0+40	15' L	SPEED LIMIT 30	R2-1	



VICINITY MAP
SCALE: 1" = 1200'

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
 - HOWARD COUNTY STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
 - 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 (5) 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 FROM AERIAL MAPS PROVIDED BY PHOTO SCIENCE ON A 2' CONTOUR INTERVAL APRIL 13, 1989.
- THIS HORIZONTAL AND VERTICAL DATUM SHOWN ARE BASED ON THE FOLLOWING NAD'83 HOWARD COUNTY CONTROL STATIONS:

HOWARD COUNTY MONUMENT NO. 17 EA	N 594351.6
	E 1257505.6
HOWARD COUNTY MONUMENT NO. 17 EB	N 593807.87
	E 1355718.1
- NOISE STUDY WAS PROVIDED BY WILDMAN ENVIRONMENTAL SERVICES ON SEPTEMBER 20, 1996.
- FOREST DELINEATION AND WAS PROVIDED BY M.A. DIRCKS AND CO., INC. DATED JUNE, 1993.
- THE 100 Yr. FLOODPLAIN AS SHOWN ON THESE PLANS ARE BASED ON THE FLOODPLAIN STUDY THAT WAS PROVIDED BY FISHER, COLLINS & CARTER, INC.
- THE WETLANDS STUDY WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS UNDER 5-95-18 JUNE 15, 1995. THE TRAFFIC STUDY WAS PROVIDED BY THE TRAFFIC GROUP ON OCTOBER 7, 1996.
- THE SOILS INVESTIGATION REPORT WAS PREPARED BY G.T.A. INC. ON NOVEMBER 1995.
- THE SKETCH PLAN 5-95-18 WAS APPROVED ON 6/15/95. PRELIMINARY PLANS WERE WAIVED UNDER WP-97-02 ON AUGUST 12, 1996.
- 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 THEIR 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.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS DEVELOPMENT.
- EXISTING UTILITIES ARE BASED ON COUNTY RECORDS.
- SECTION 1618(a) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PROHIBITS CLEARING, GRADING OR CONSTRUCTION ACTIVITY WITHIN THE REQUIRED WETLAND OR STREAM BANK BUFFERS. A WAIVER (WP-95-94) WAS SUBMITTED UNDER 5-95-18.
- STORMWATER MANAGEMENT ANALYSIS WAS APPROVED ON APRIL 27, 1996 UNDER F-96-128. WATER QUALITY IS PROVIDED BY SHALLOW MARSH.
- FOREST CONSERVATION PLAN WAS PROVIDED UNDER SECTION 2, AREA 1. (F97-29)

1783

ROAD CLASSIFICATION CHART		
ROAD NAME	CLASSIFICATION	R/W WIDTH
STONE HOLLOW CT.	CUL-DE-SAC	50'
UNION MILLS CT.	CUL-DE-SAC	50'
MILLDAM CT.	CUL-DE-SAC	50'
LAWRENCE MILL CT.	CUL-DE-SAC	50'
GROUND MILL CT.	CUL-DE-SAC	50'
CARROLL WIND DRIVE	LOCAL ROAD	50'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING, SURVEYING & LAND SURVEYORS
 970 BALTIMORE NATIONAL PLE. SUITE 100
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855

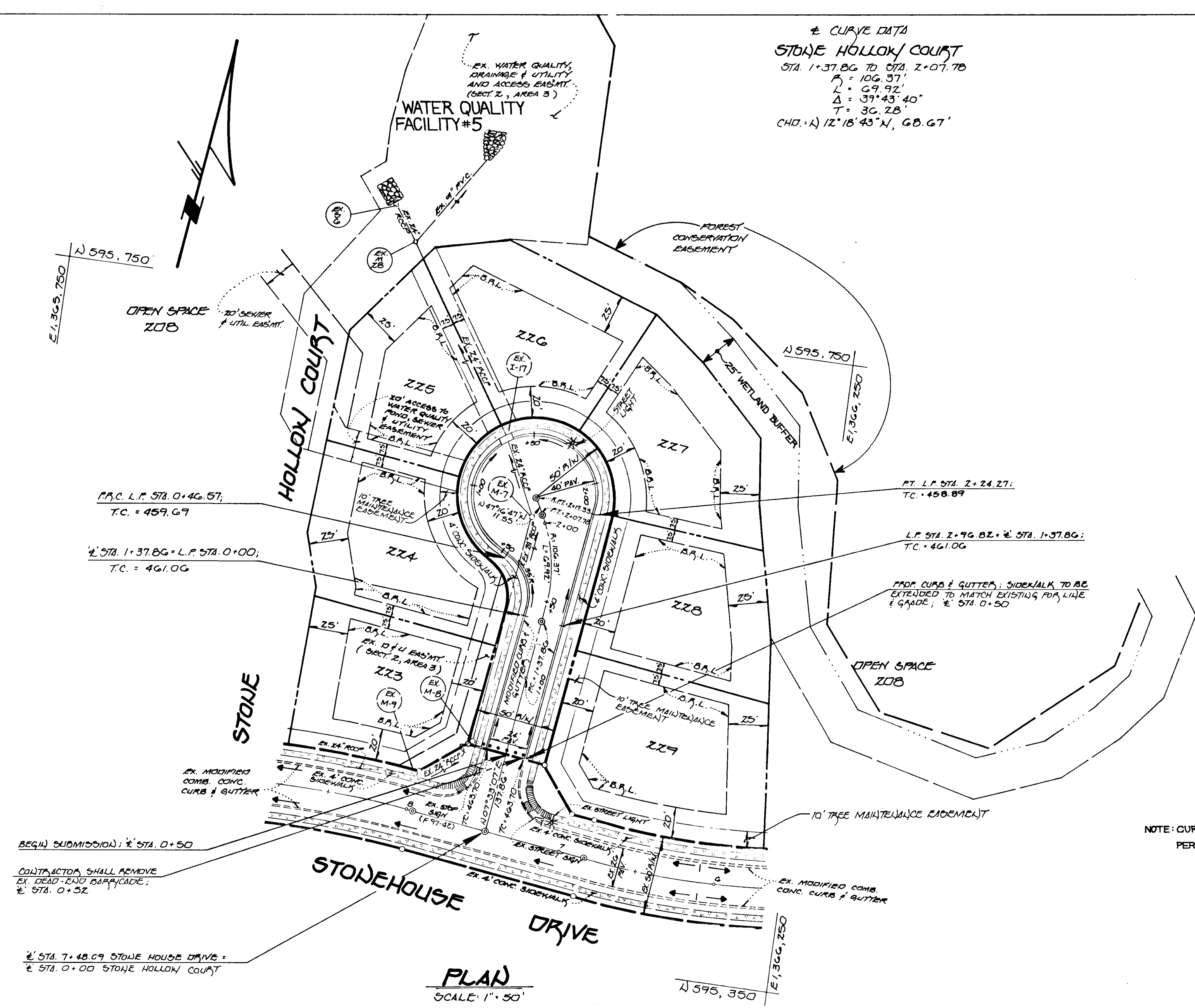
OWNER
 DANIELS MILL OVERLOOK, LLC
 c/o MR. MICHAEL DIFFENDAL
 11900 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 c/o MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE # 705
 1147 YORK ROAD
 LUTHERVILLE, MARYLAND 21095

Jayesh V. Panchohi 2-6-96
 JAYESH V. PANCHOLI DATE

DANIELS MILL OVERLOOK
 SECTION 2 AREA 4
 LOTS 177 THRU 228
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 1 OF 14
 SCALE: AS SHOWN DATE: SEPT. 9, 1996

* CURVE DATA
STONE HOLLOW COURT
 STA. 1+37.86 TO STA. 2+01.70
 P = 106.37'
 Δ = 39° 43' 40"
 T = 36.28'
 CHG. Δ = 12° 18' 45" N, 60.67'



NOTE: CURB TRANSITION AT STORM DRAIN INLETS SHALL BE PER HOWARD COUNTY STANDARD DETAIL R-3.08.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DEPT. OF PLANNING AND ZONING

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John Dammann 2/5/97
 CHIEF, DEPT. OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Arthur M. Deneff 2-20-97
 CHIEF, BUREAU OF HIGHWAYS

DANIELS MILL OVERLOOK
 SECTION 2, AREA 4
 LOTS 177 THRU 229
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
STONE HOLLOW COURT
 PLAN & PROFILE
MILLDAM COURT
 PROFILE

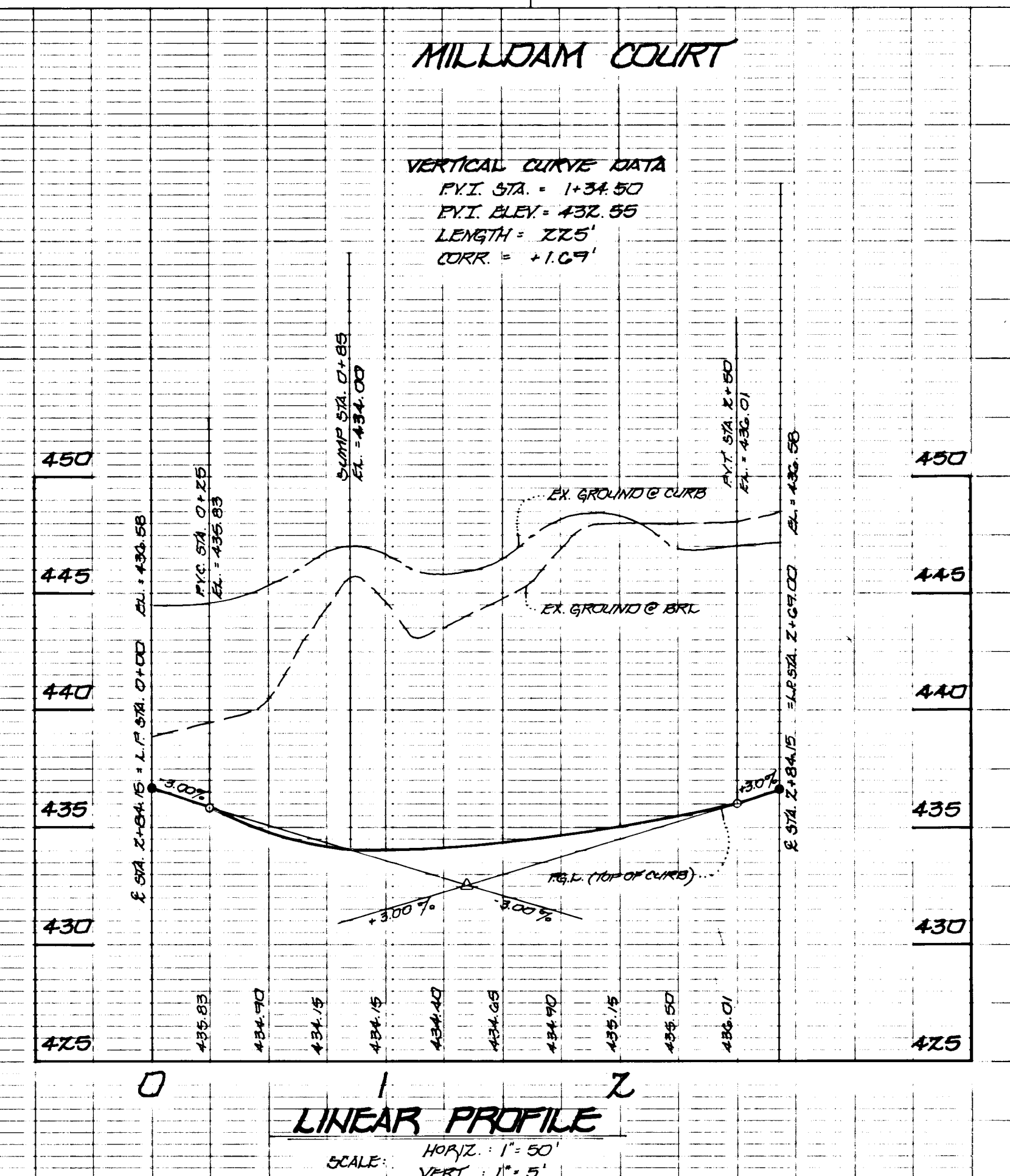
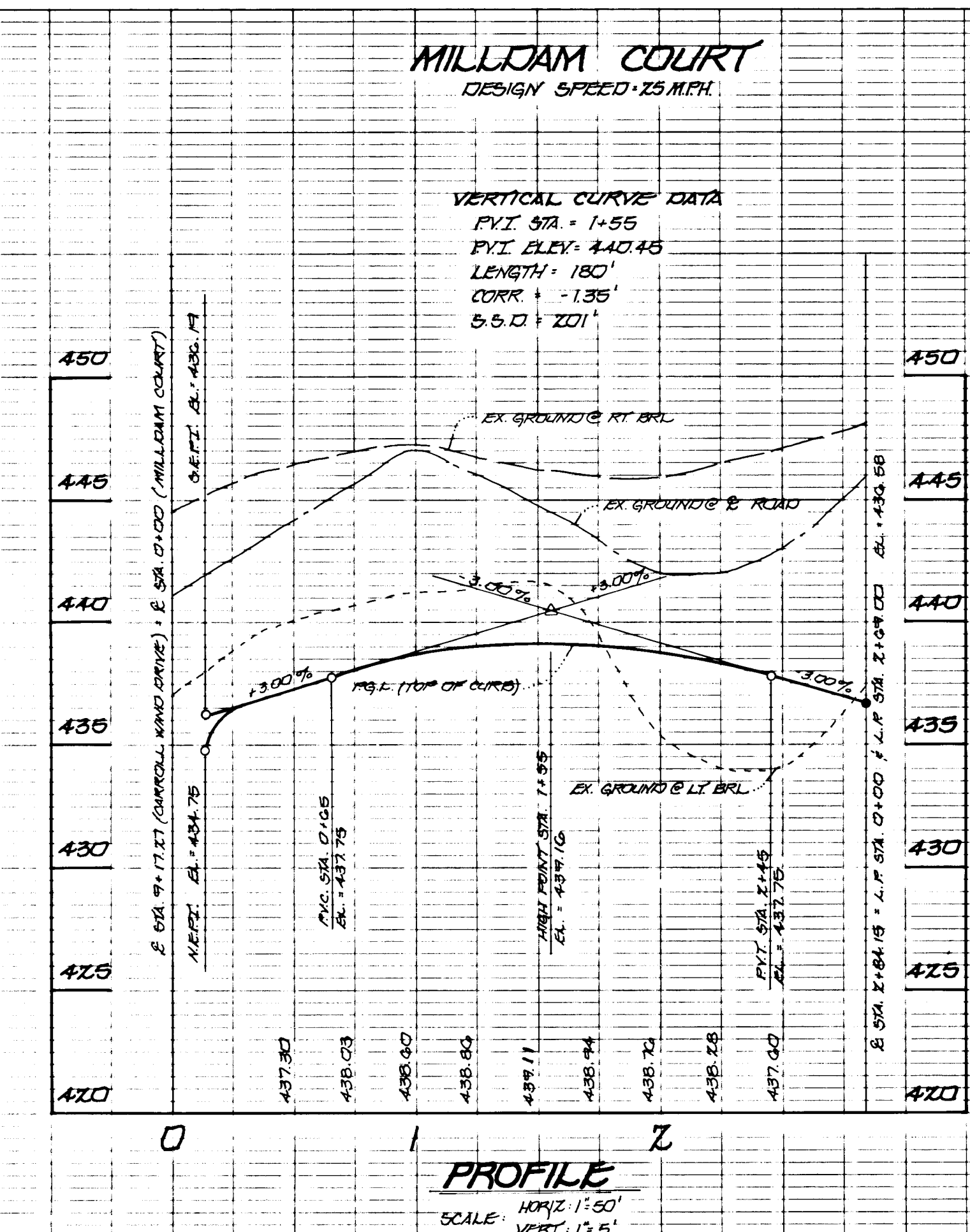
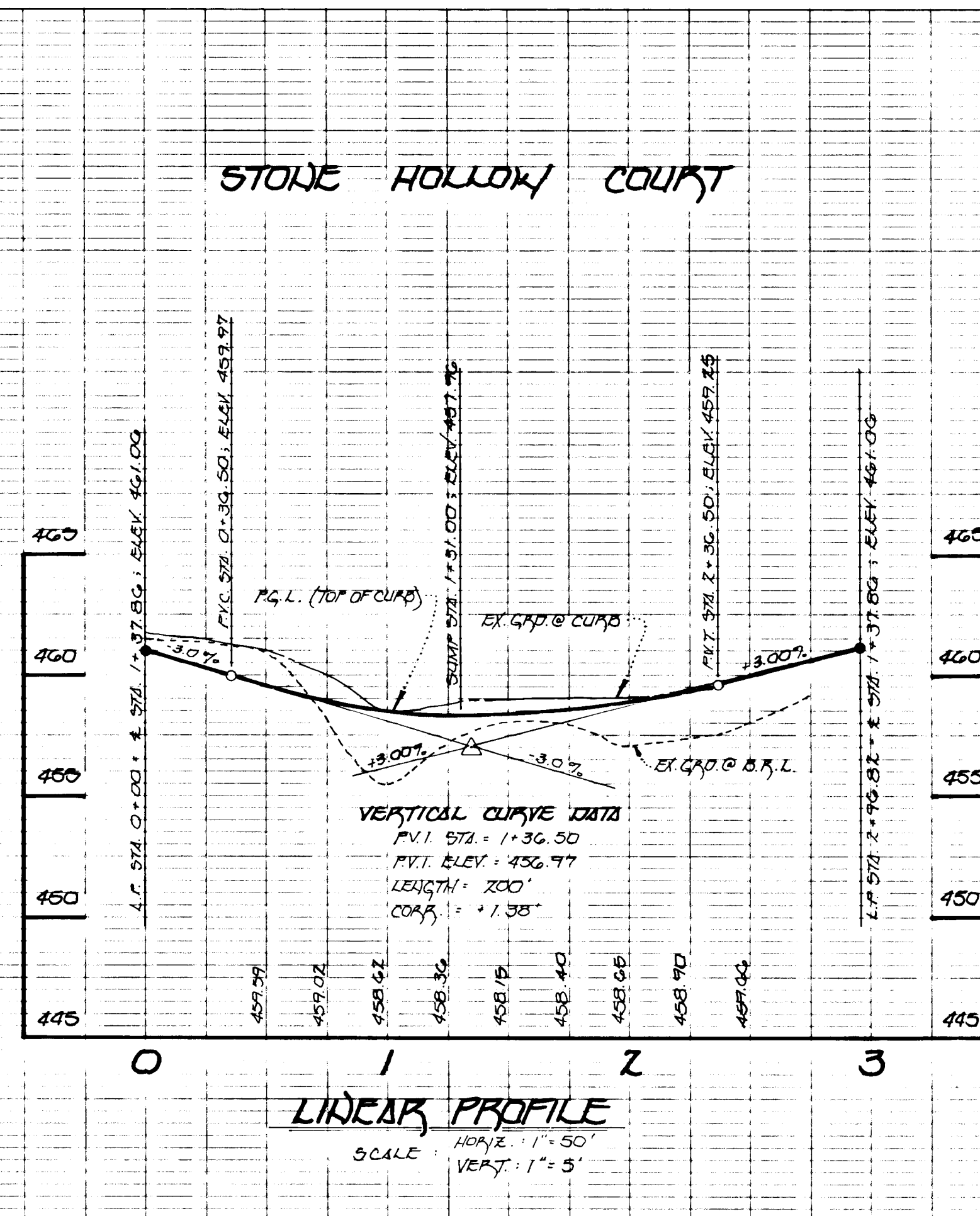
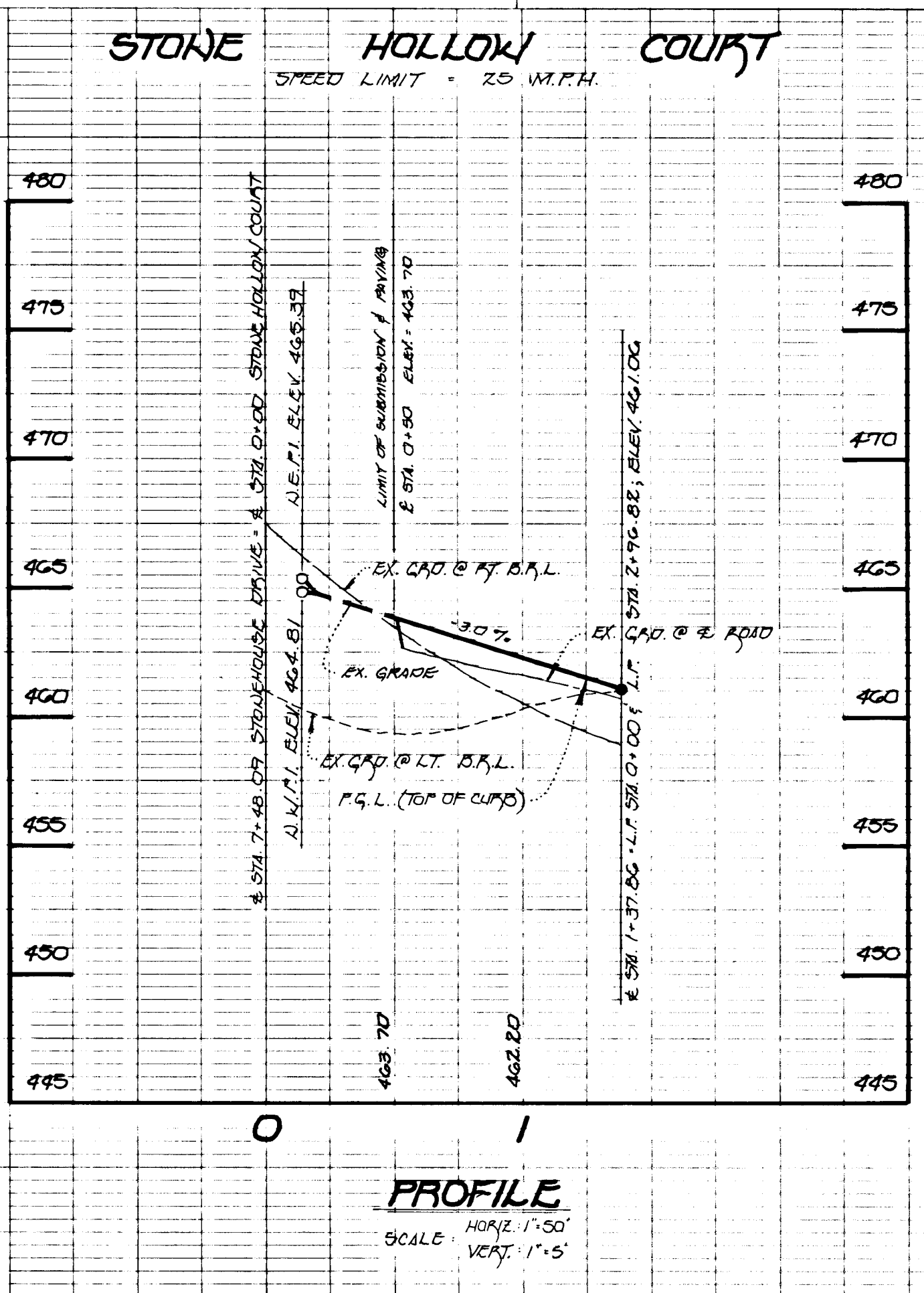
OWNER: DANIELS MILL OVERLOOK, LLC
 DEVELOPER: THE RYLAND GROUP
 54 MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705 1417 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

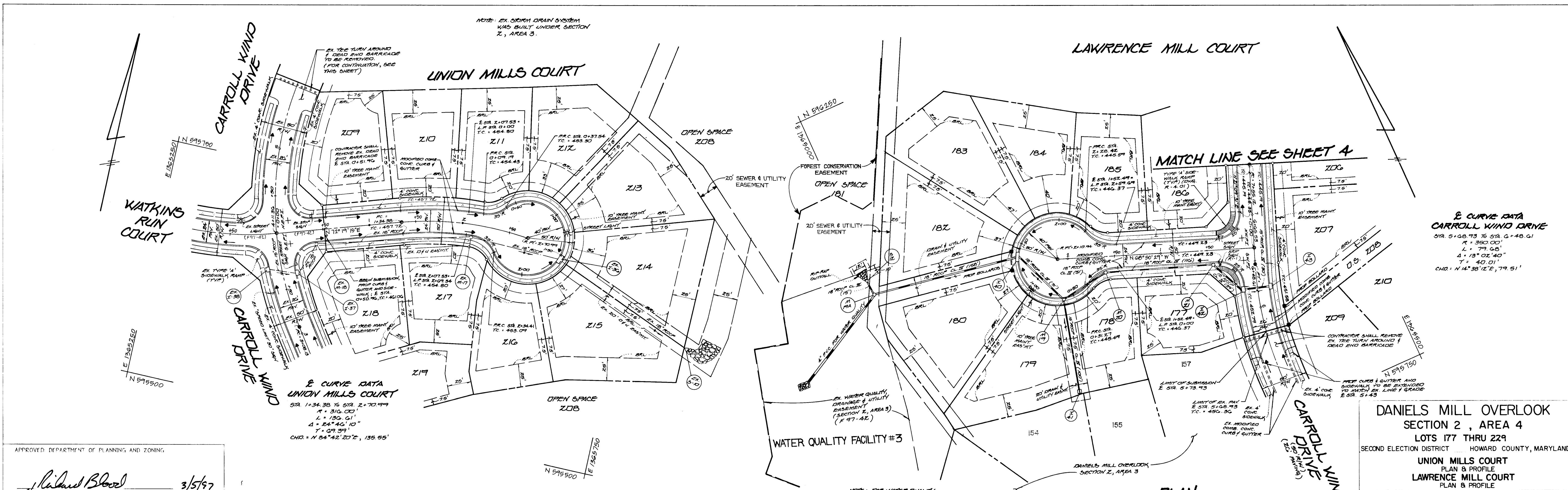
SCALE: AS SHOWN DATE: SEPT. 9, 1996
 DES. B.J.K. DRN. J.C.L. C.J.C.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1100 15th Ave. N.E.
 Atlanta, GA 30309



1783





Curve Data
 CARROLL WIND DRIVE
 STA. 5+08.73 TO STA. 6+48.01
 R = 380.00'
 L = 79.65'
 Δ = 13° 02' 40"
 T = 40.01'
 CHD = N 84° 22' 22" E, 79.51'

Curve Data
 UNION MILLS COURT
 STA. 1+34.38 TO STA. 2+70.49
 R = 310.00'
 L = 130.01'
 Δ = 24° 42' 10"
 T = 97.39'
 CHD = N 84° 22' 22" E, 135.65'

DANIELS MILL OVERLOOK
 SECTION 2, AREA 4
 LOTS 177 THRU 229
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

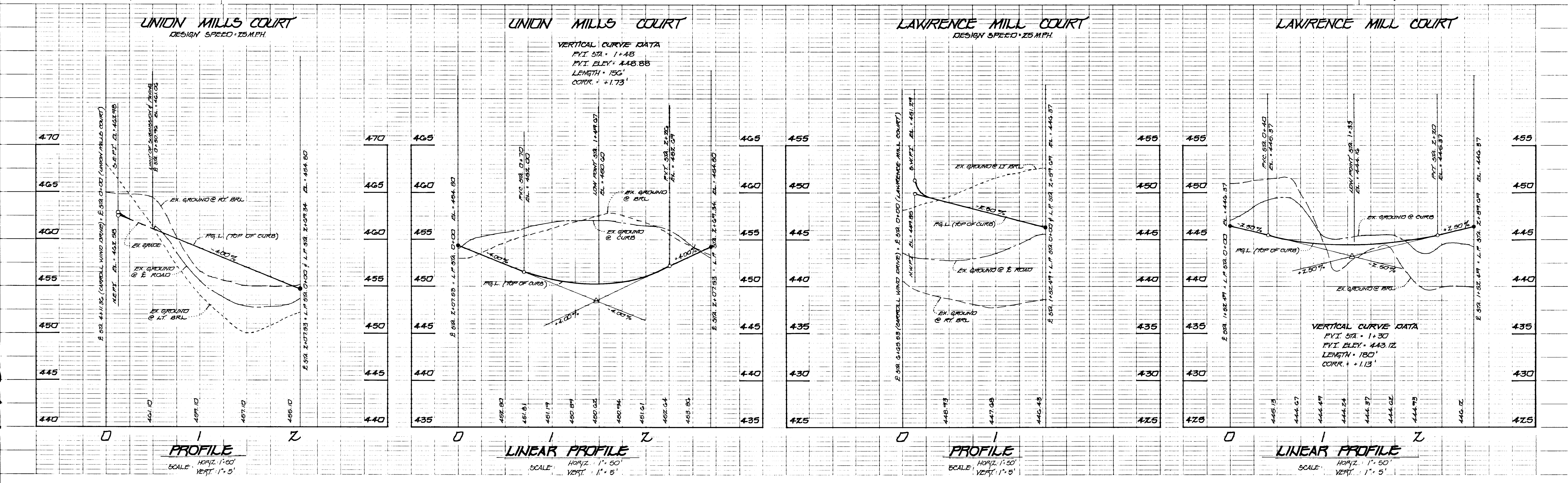
UNION MILLS COURT
 PLAN & PROFILE
LAWRENCE MILL COURT
 PLAN & PROFILE

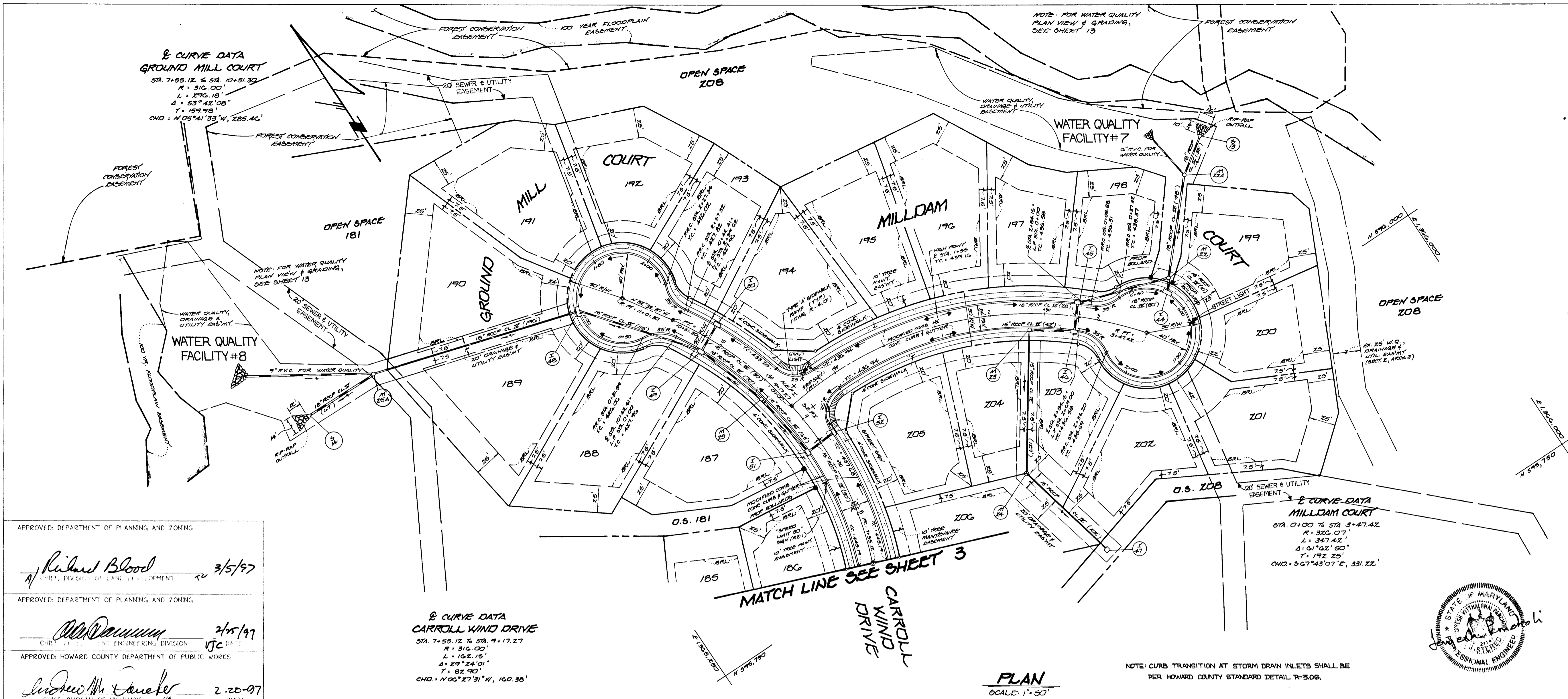
OWNER	DEVELOPER
DANIELS MILL OVERLOOK, LLC C/O MR. MICHAEL O'DONOVAN 11900 TECH ROAD SILVER SPRING, MD 20904	C/O MR. CHARLES O'DONOVAN GALLERIA TOWERS SUITE # 705 1197 YORK ROAD LUTHERVILLE, MARYLAND 21093
SCALE: AS SHOWN	DATE: SEPT 9, 1990
DES: B.J.K.	DRAW: J.C.L.
FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William Dammann 2/15/97

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Doucette 2-20-97





APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DIVISION OF PLANNING AND ZONING

APPROVED: DEPARTMENT OF PLANNING AND ZONING
W. D. ... 2/25/97
 CHIEF, ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. ... 2-20-97
 CHIEF, BUREAU OF HIGHWAYS

DANIELS MILL OVERLOOK
 SECTION 2, AREA 4
 LOTS 177 THRU 229
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CARROLL WIND DRIVE PLAN & PROFILE
MILLDAM COURT PLAN
GROUND MILL COURT PLAN & PROFILE

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL RUFFENHALL
 1400 ROCK ROAD
 SILVER SPRING, MD 20904

DEVELOPER
 THE RYLAND GROUP
 C/O MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE# 705 1417 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

SCALE: AS SHOWN DATE: SEPT 9, 1996
 DES: B.J.K. DRN: J.C.L. C.J.C.

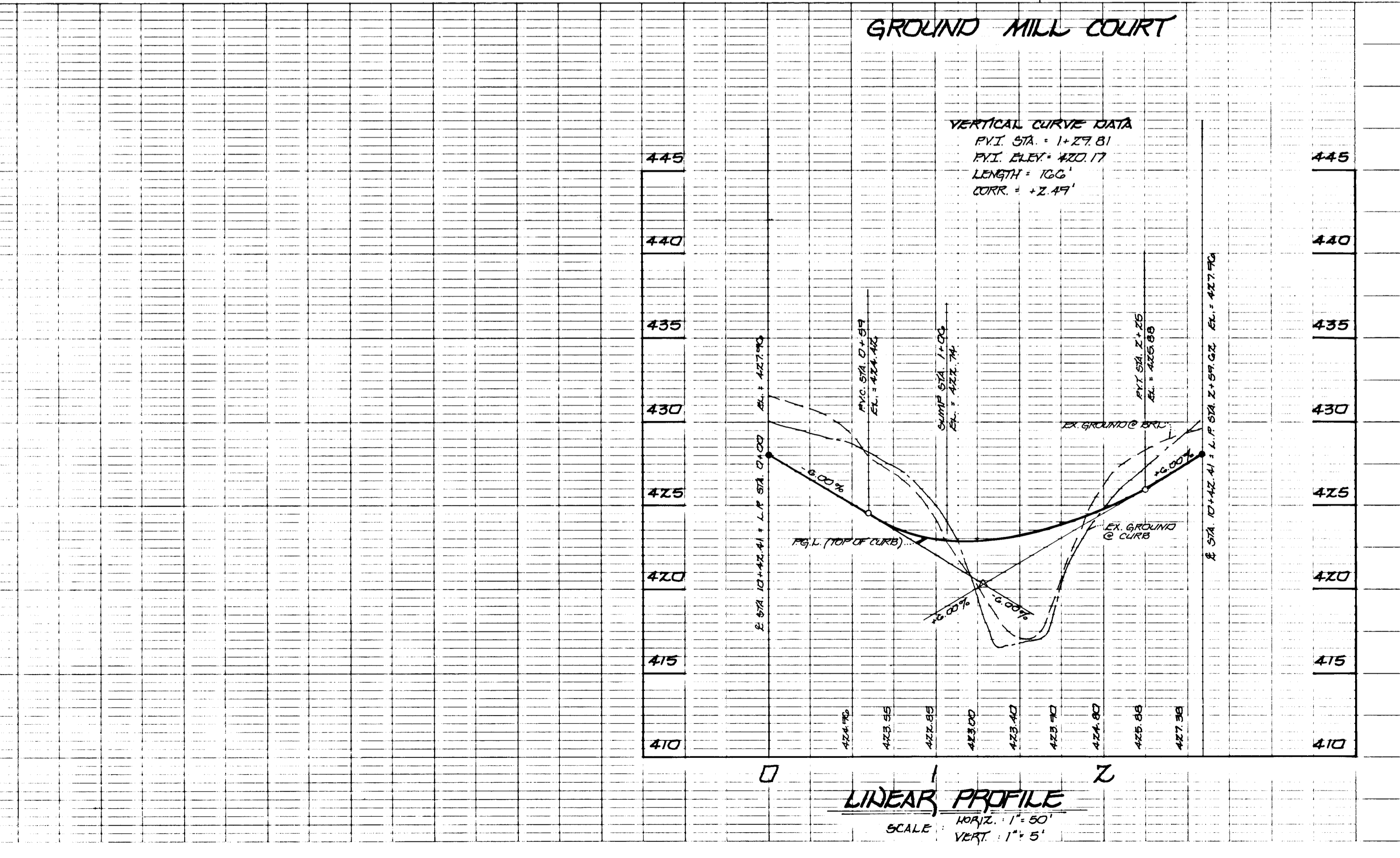
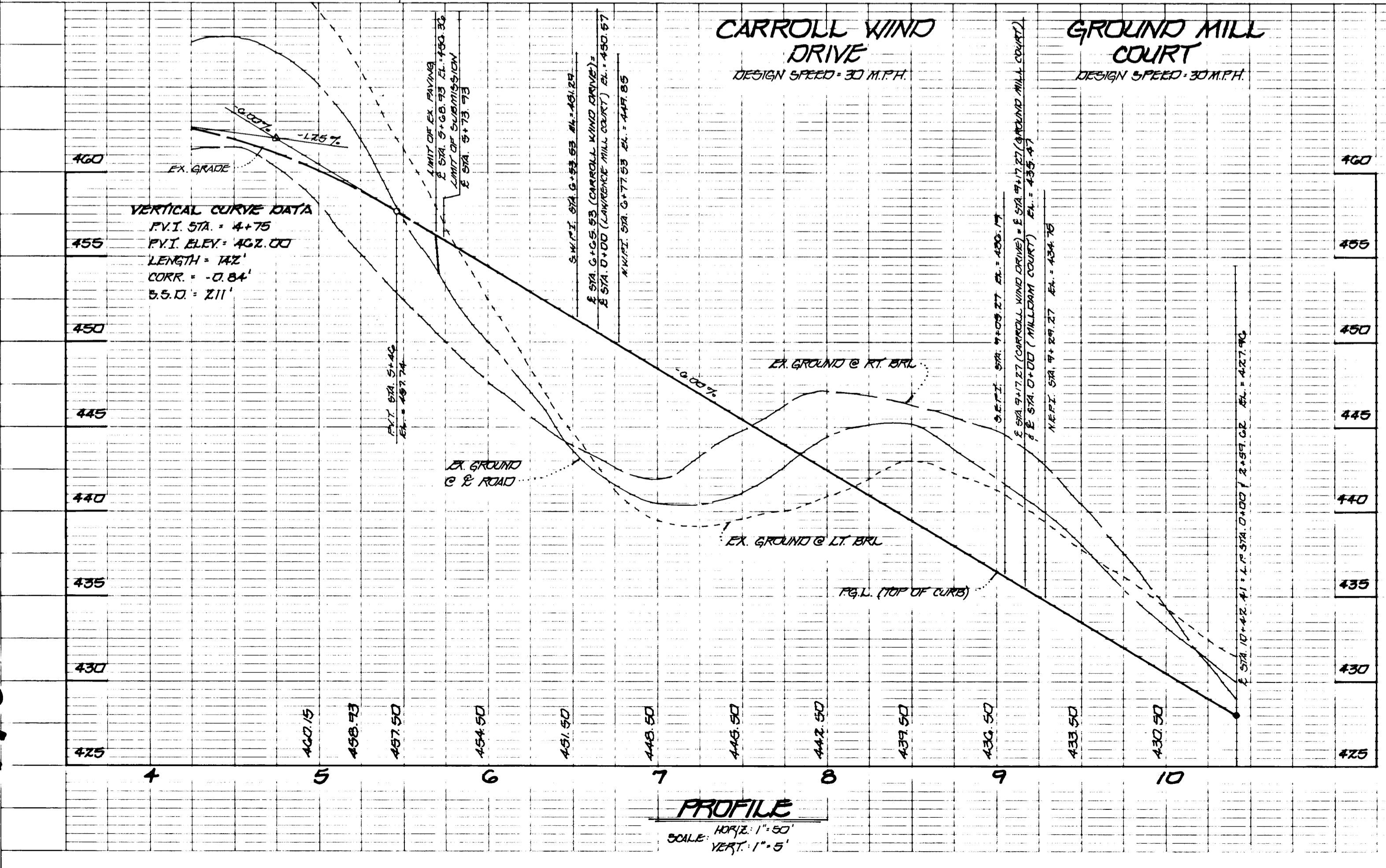
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1148 ELY ROAD
 ELKTON, MD 21921

PLAN
 SCALE: 1" = 50'

NOTE: CURB TRANSITION AT STORM DRAIN INLETS SHALL BE PER HOWARD COUNTY STANDARD DETAIL R-306.



1783





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.
Joseph Pancholi 9-6-96
 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.
Paul Jones 9-4-96
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 2/13/97
 DISTRICT NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED:
Robert W. Ziehm 2/13/97
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chris Deussen 2/25/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Robert M. Duval 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

NOTE: EARTH DIKES THAT ARE INTERRUPTED DUE TO THE INSTALLATION OF THE STORM DRAIN SYSTEM SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 4401 W. GAITHERSBURG ROAD
 GAITHERSBURG, MARYLAND 20878

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

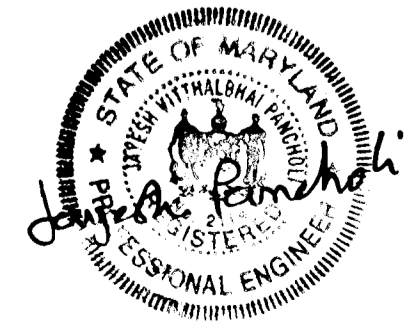
NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.
 TOTAL NUMBER OF STREET TREES
 62 STREET TREES (THIS SHEET)

- LEGEND**
- EARTH DIKE
 - SILT FENCE
 - SUPER SILT FENCE
 - LIMIT OF DISTURBANCE
 - DILET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE

PLAN
 SCALE 1" = 50'

OWNER
 DANIELS MILL OVERLOOK, LLC
 96 MC MICHAEL, DIFFENDAL
 11900 TECH ROAD
 SILVER SPRING, MD 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE # 705
 1447 YORK ROAD
 LUTHERVILLE, MD 21073



STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
DANIELS MILL OVERLOOK
 SECTION 2 AREA 4
 LOTS 177 THRU 229
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 5 OF 14
 SCALE: AS SHOWN DATE: SEPT. 9, 1996

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.

Joseph Pancholi 2-6-96
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."

Michael... 9-4-96
SIGNATURE OF DEVELOPER DATE

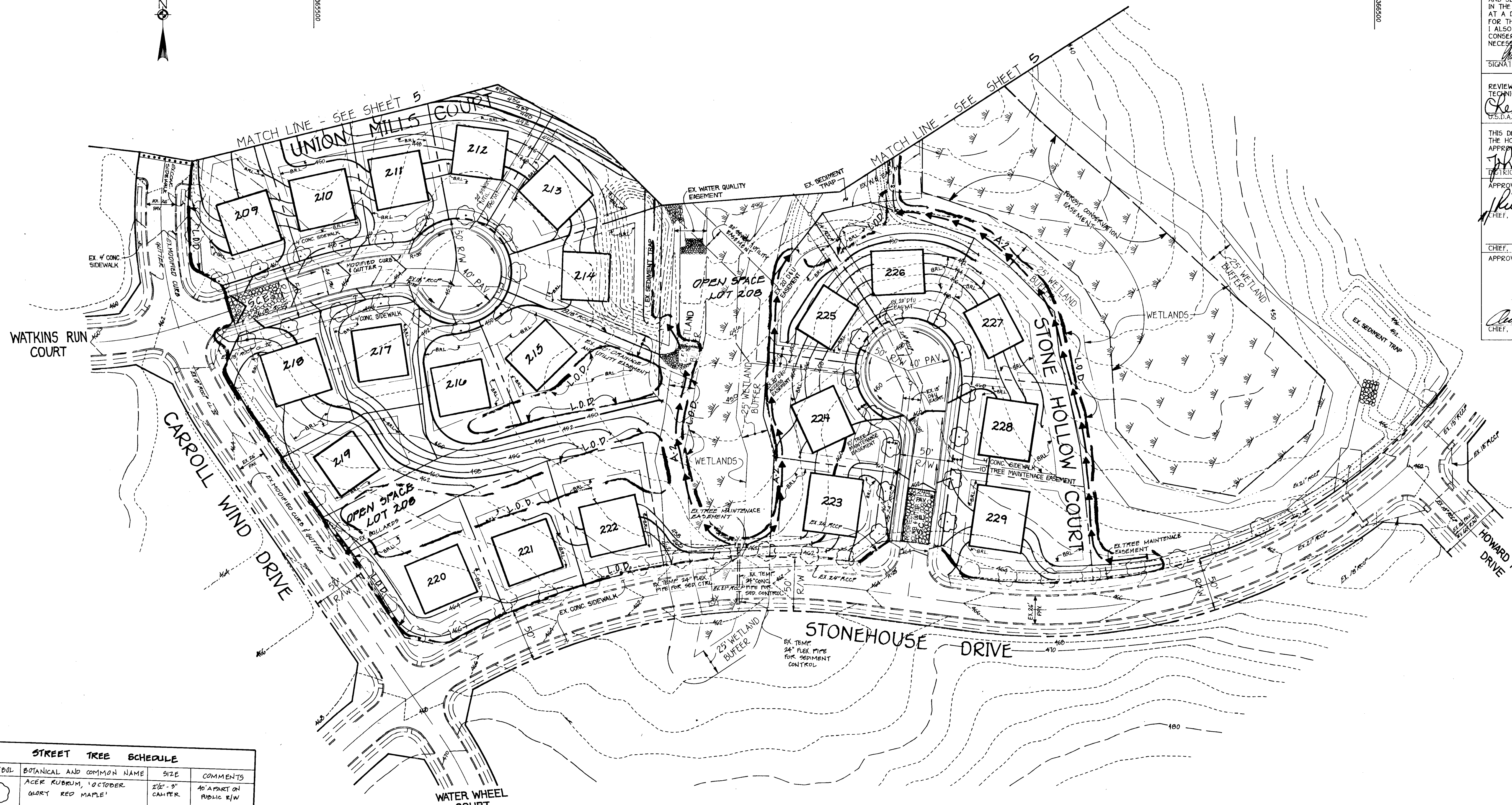
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Kevin Simmons 2/13/97
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Roberts 2/13/97
DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Bill... 2/25/97
CHIEF, DEPARTMENT OF PUBLIC WORKS DATE

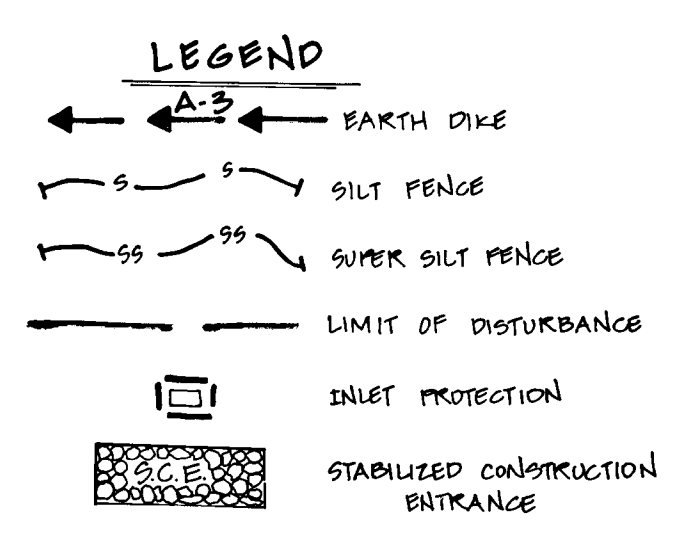
Andrew M. Danek 2-20-07
CHIEF, BUREAU OF HIGHWAYS DATE



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

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

TOTAL NUMBER OF STREET TREES (THIS SHEET)
29 STREET TREES (THIS SHEET)



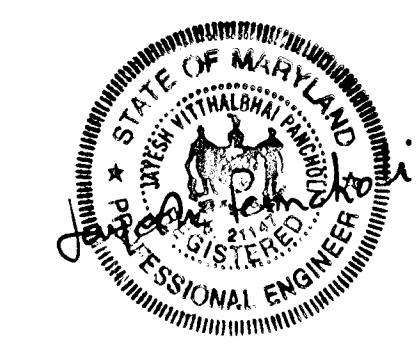
PLAN
SCALE 1" = 50'

1783

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1100 W. 11th Street, Suite 100
Ellicott City, Maryland 21043
(410) 461-2855

OWNER
DANIELS MILL OVERLOOK, LLC
94 MR. MICHAEL DIFFENDAL
11900 TECH ROAD
SILVER SPRING, MD 20904

DEVELOPER
THE RYLAND GROUP
ATTENTION: MR. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE #705
1447 YORK ROAD
LUTHERVILLE, MD 21093



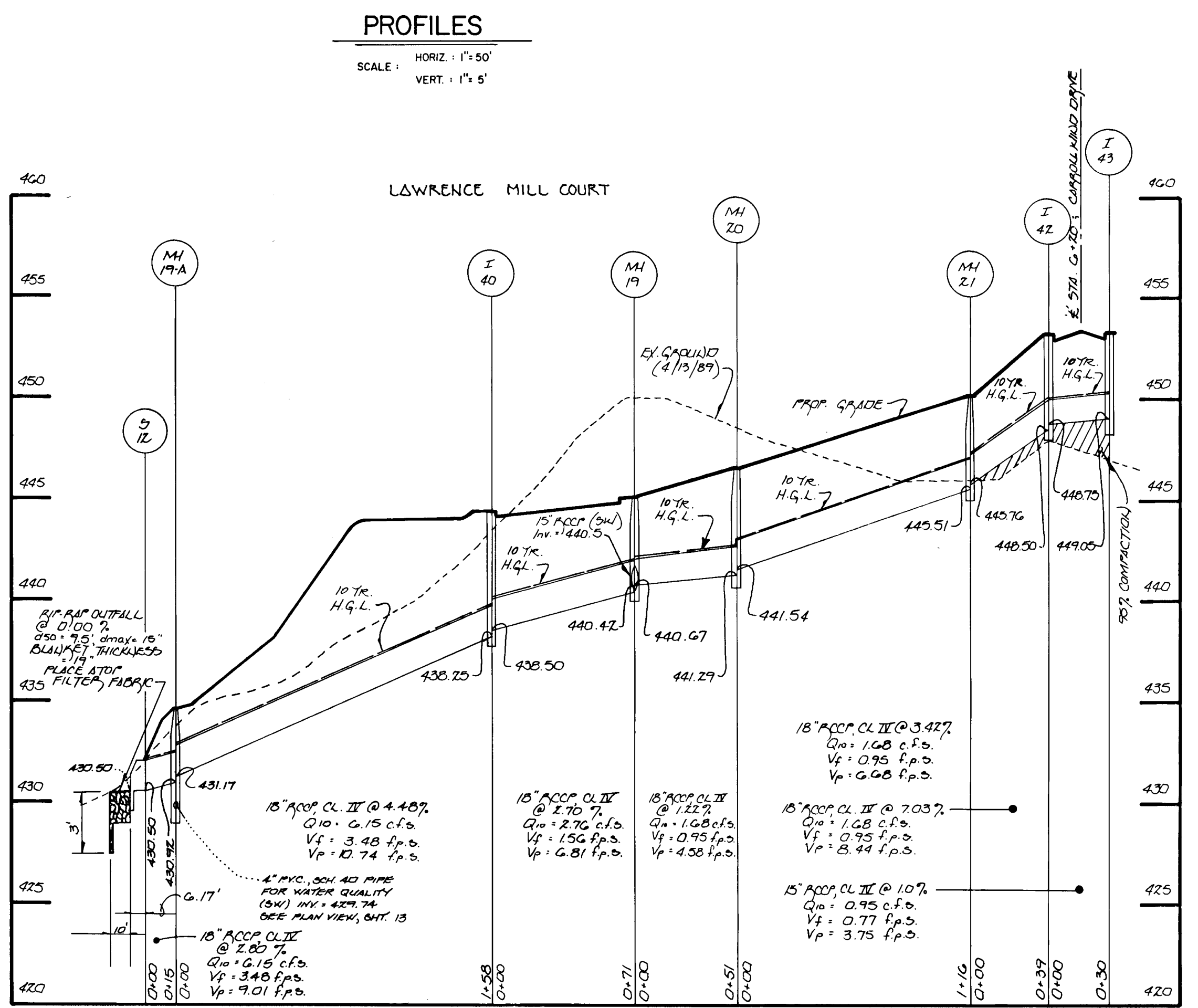
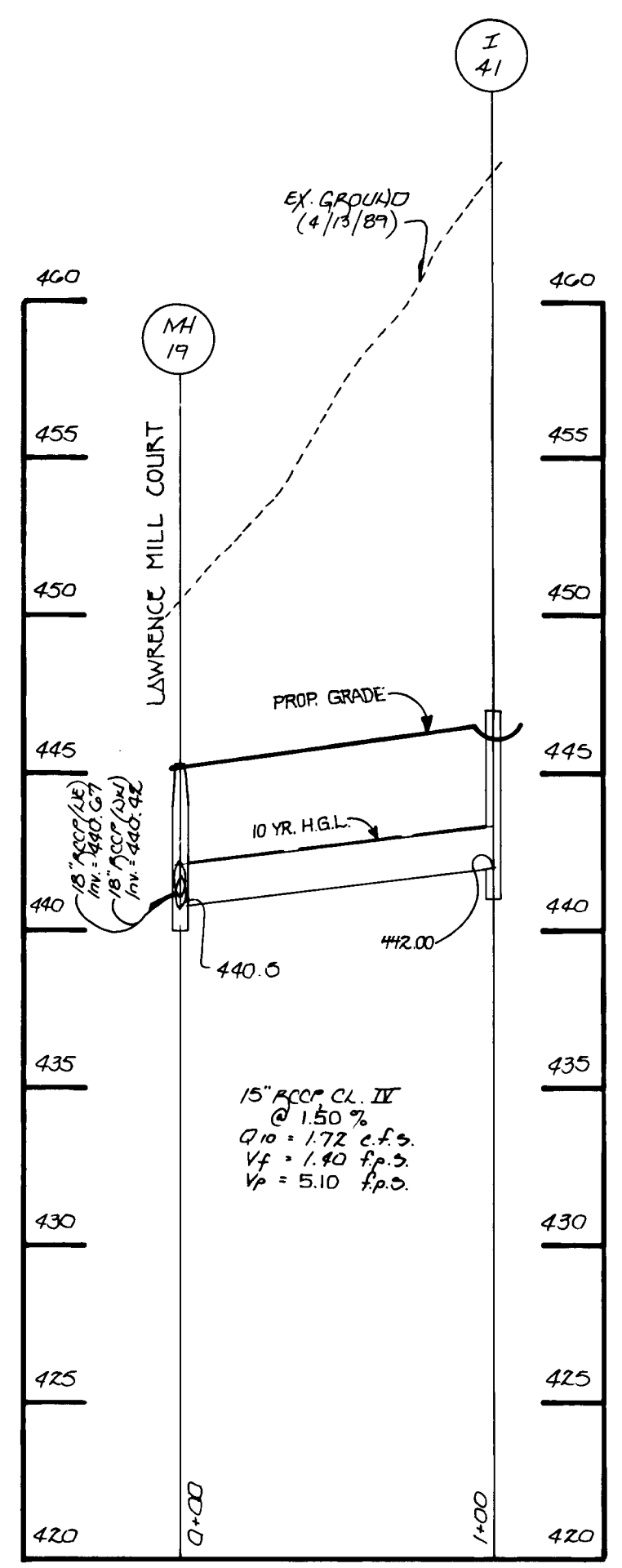
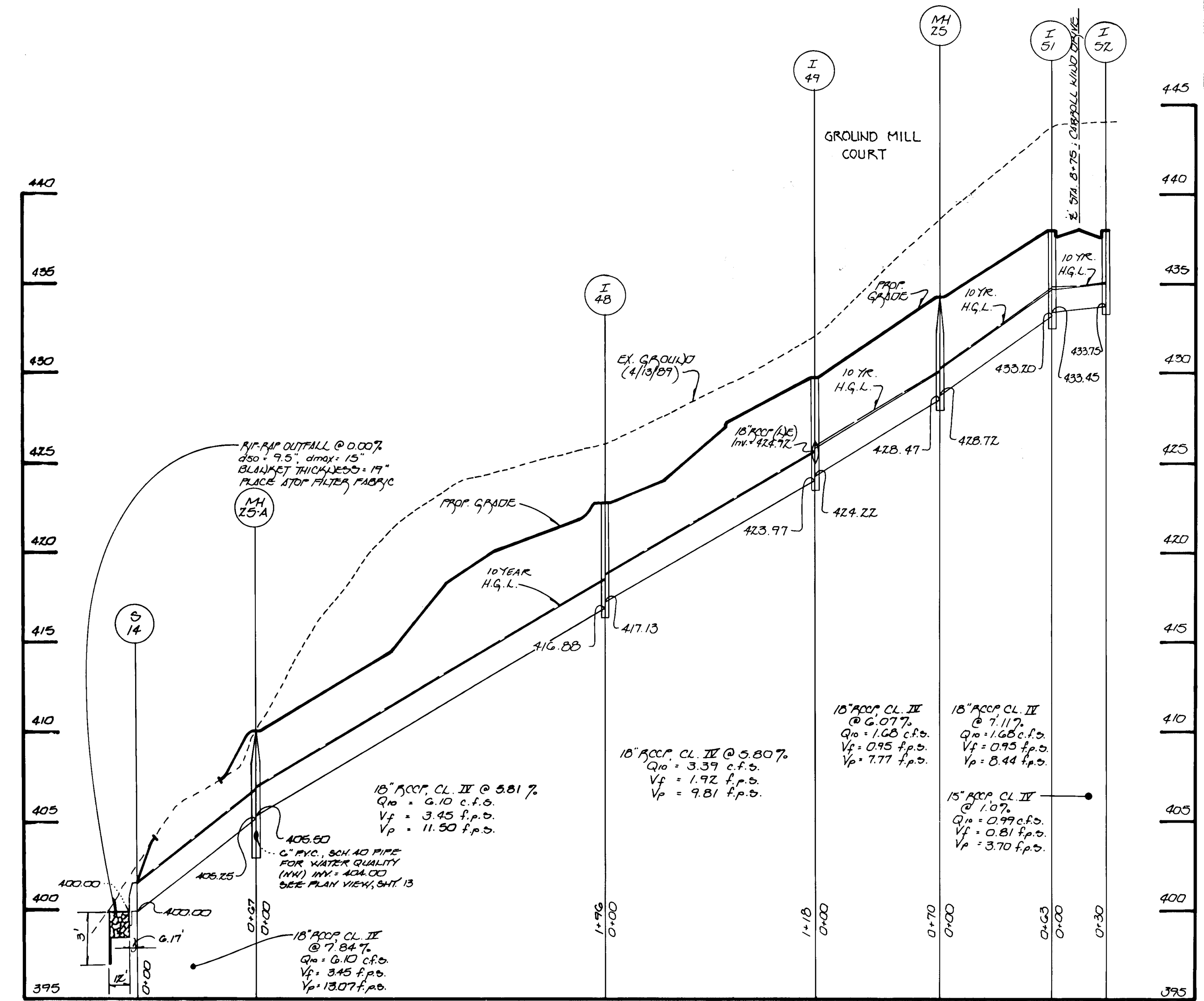
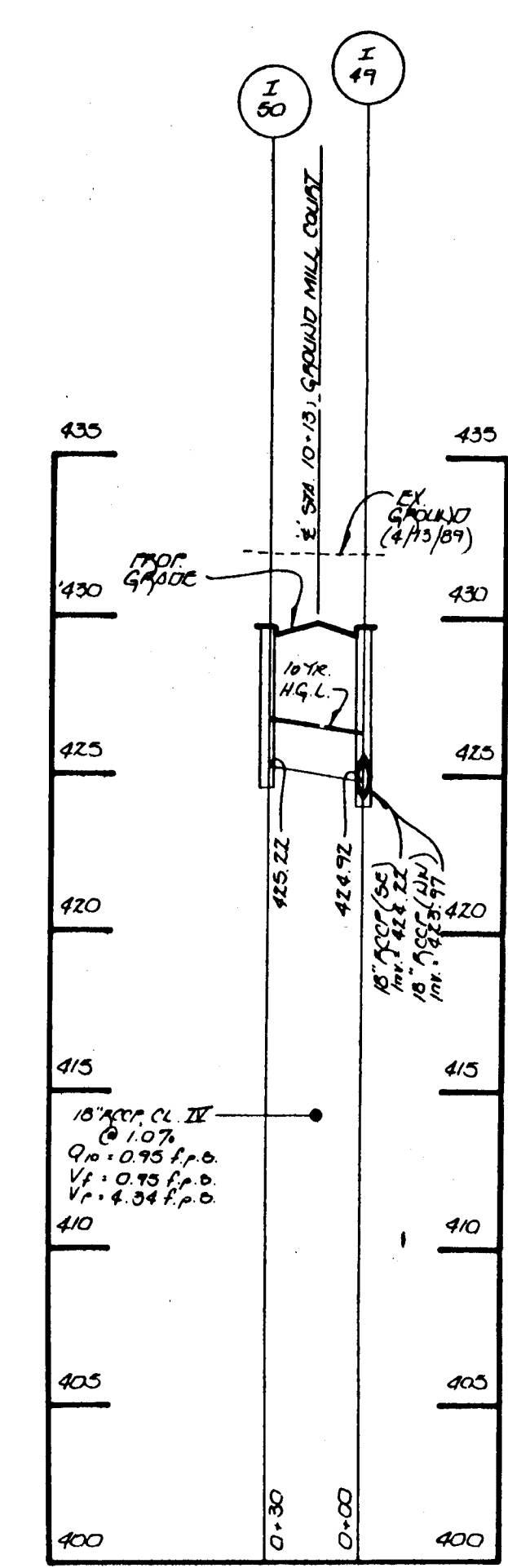
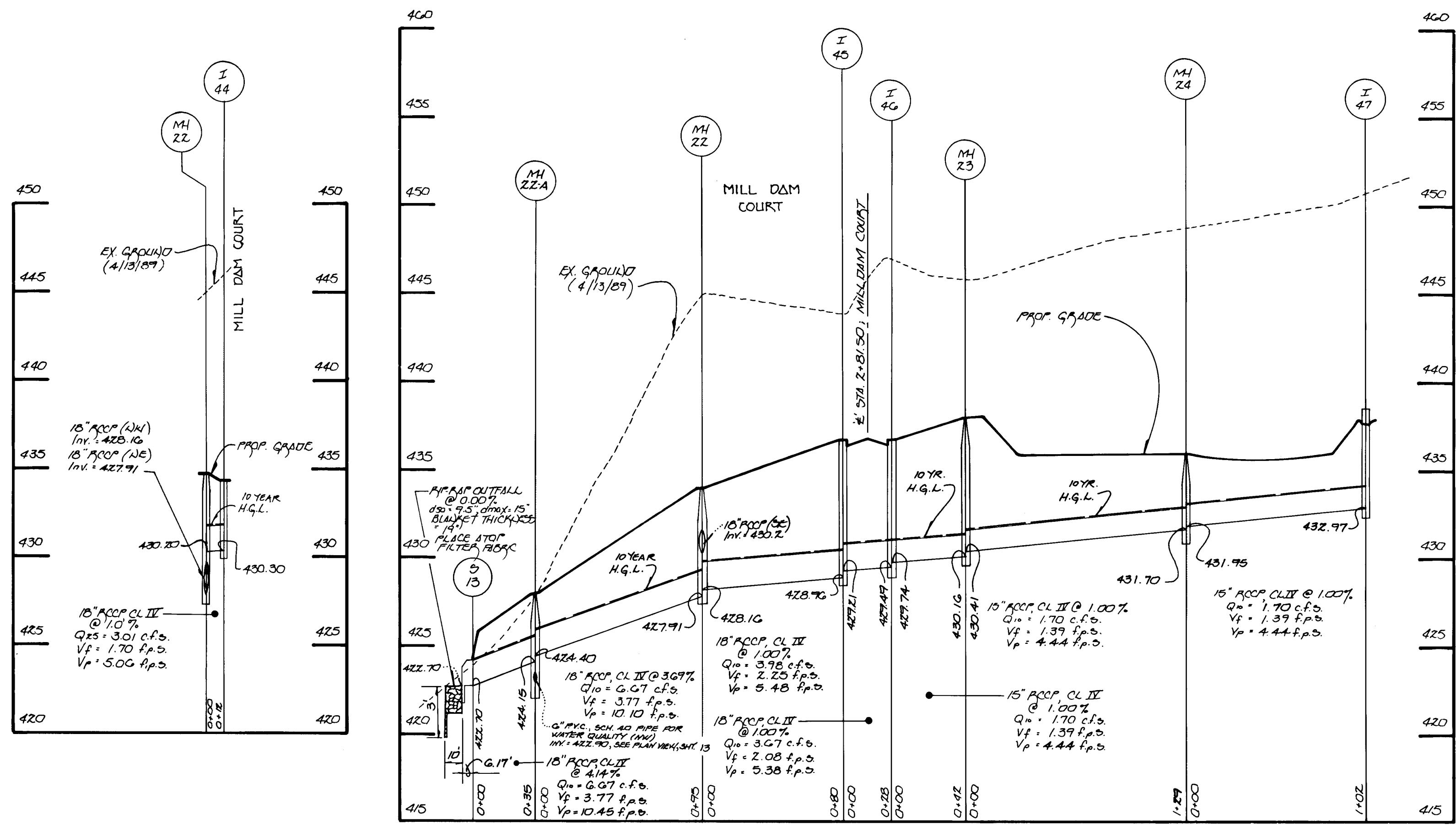
STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
DANIELS MILL OVERLOOK
SECTION 2 AREA 4
LOTS 177 THRU 229
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 6 OF 14

SCALE: AS SHOWN DATE: 09/19/96

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. Ouellet 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/9/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

William J. ... 2/15/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



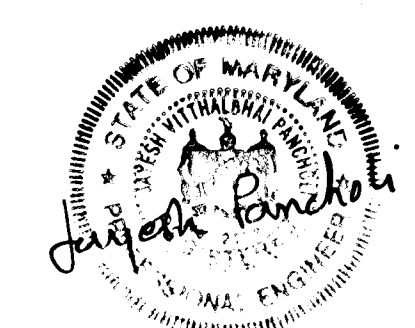
STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 2 AREA 4
 LOTS 177 THRU 229
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 7 OF 14
 SCALE: AS SHOWN DATE: SEPT. 9, 1996

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1100 W. PATENT ROAD, SUITE 300
 ELKORT CITY, MARYLAND 21042
 (410) 481-2885

OWNER
 DANIELS MILL OVERLOOK, LLC
 54 W. MICHAEL STIFFENHAIL
 SUITE 30705
 11400 TECH ROAD
 SILVER SPRING, MD 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE 30705
 1447 YORK ROAD
 LUTHERVILLE, MD 21093



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.
Jayesh Ramcholi 9-6-96

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.
Richard Blood 9-4-96

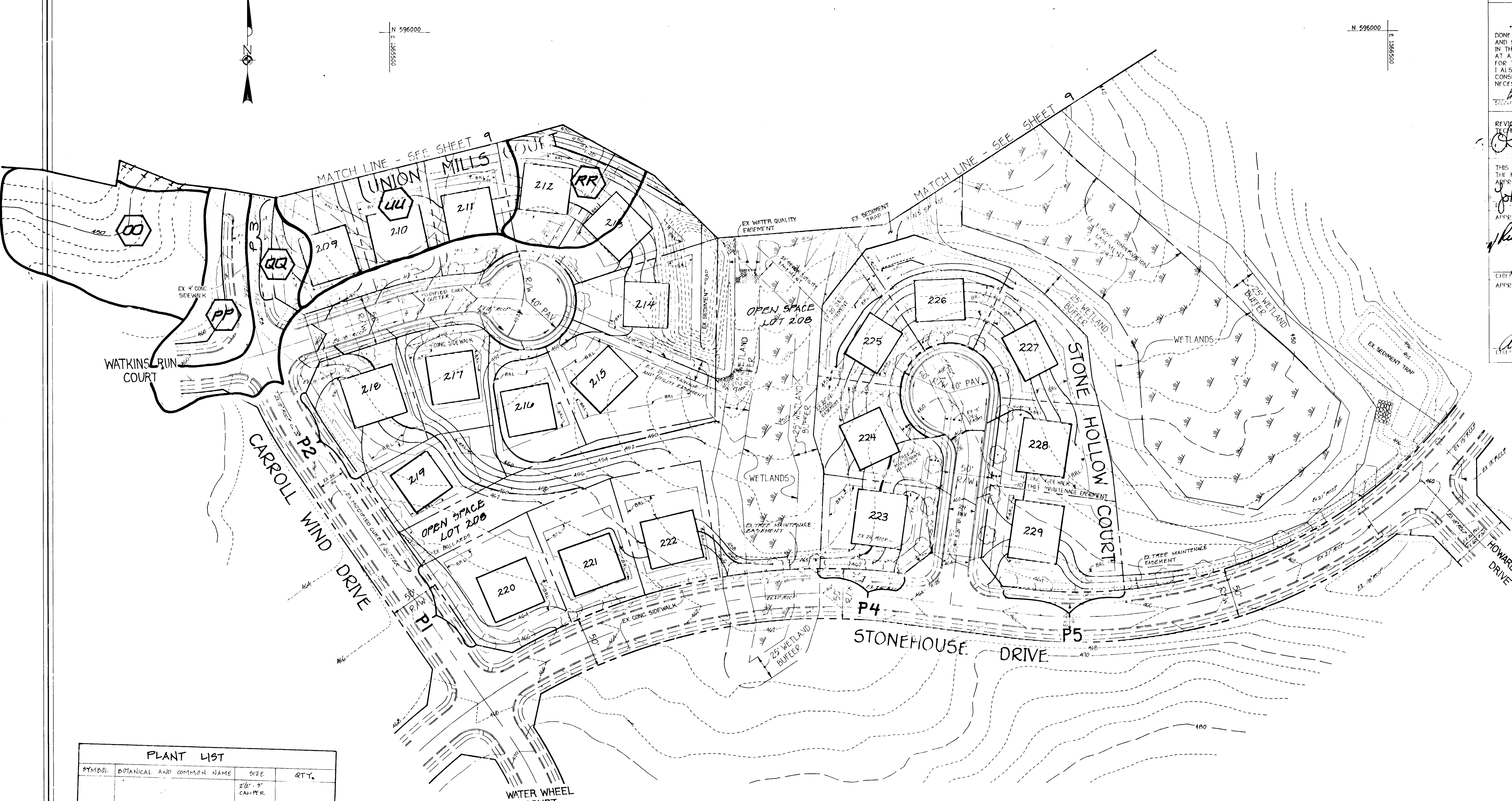
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Reynold Summers 2/13/97

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *John R. Bolster* 2/13/97

APPROVED: DEPARTMENT OF PLANNING AND ZONING.
Richard Blood 3/5/97

APPROVED: DEPARTMENT OF PUBLIC WORKS.
Andrew M. Daniels 2/5/97

Andrew M. Daniels 2-20-97



PLANT LIST

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	QTY.
UU	2 1/2" - 3" CAMPER		

SEE SHEET 12 OF 14 FOR LANDSCAPE CHART & SHEETS 13/14 OF 14
 THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$13000.

DRAINAGE AREAS

INLET	D.A.#	AREA AC.	'C'	CONEF	IMP.
I-40	NN	0.98	0.48	R-ED	33.0
I-41	OO	0.56	0.46	R-ED	20.0
I-42	PP	0.29	0.46	R-ED	32.0
I-43	QQ	0.30	0.53	R-ED	40.0
I-44	RR	1.02	0.44	R-ED	27.0
I-45	SS	0.15	0.39	R-ED	20.0
I-46	TT	0.80	0.42	R-ED	24.0
I-47	UU	0.67	0.40	R-ED	21.0
I-48	VV	0.56	0.54	R-ED	41.0
I-49	WW	0.20	0.39	R-ED	20.0
I-50	XX	0.54	0.47	R-ED	31.0
I-51	YY	0.23	0.46	R-ED	30.0
I-52	ZZ	0.31	0.41	R-ED	22.0

PLAN
 SCALE 1" = 50'

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 ELLESMERE CITY, MARYLAND 20742
 4100 461 - 2855

OWNER
 DANIELS MILL OVERLOOK, LLC
 15000 MICHIGAN CREEK ROAD
 DUNDY TECH ROAD
 SUITE 4705
 SUITE 4705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

DEVELOPER
 THE ROLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093



DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 2 OF 4
 LOTS 177 THROUGH 229
 ZONED R-ED
 TAX MAP No. 17 PART 1 No. 41 2-4 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 8 OF 14
 SCALE: AS SHOWN DATE: SEPT. 9, 1996

N 596750
E 1369600

N 596750
E 1369600

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.

David Pancholi 9.6.96
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."

David Pancholi 9.4.96
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE 6.1.97
DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *[Signature]* 1.1.97
DATE

DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael B... 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 2/25/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 2.15.97
CHIEF, BUREAU OF HIGHWAYS DATE



DRAINAGE AREAS				
NO.	AREA	PERCENT	PERCENT	PERCENT
177	1.1	1.1	1.1	1.1
178	1.1	1.1	1.1	1.1
179	1.1	1.1	1.1	1.1
180	1.1	1.1	1.1	1.1
181	1.1	1.1	1.1	1.1
182	1.1	1.1	1.1	1.1
183	1.1	1.1	1.1	1.1
184	1.1	1.1	1.1	1.1
185	1.1	1.1	1.1	1.1
186	1.1	1.1	1.1	1.1
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189	1.1	1.1	1.1	1.1
190	1.1	1.1	1.1	1.1
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192	1.1	1.1	1.1	1.1
193	1.1	1.1	1.1	1.1
194	1.1	1.1	1.1	1.1
195	1.1	1.1	1.1	1.1
196	1.1	1.1	1.1	1.1
197	1.1	1.1	1.1	1.1
198	1.1	1.1	1.1	1.1
199	1.1	1.1	1.1	1.1
200	1.1	1.1	1.1	1.1
201	1.1	1.1	1.1	1.1
202	1.1	1.1	1.1	1.1
203	1.1	1.1	1.1	1.1
204	1.1	1.1	1.1	1.1
205	1.1	1.1	1.1	1.1
206	1.1	1.1	1.1	1.1
207	1.1	1.1	1.1	1.1
208	1.1	1.1	1.1	1.1

PLAN
SCALE 1" = 50'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10001 SOUTHWEST OFFICE PARK - SUITE 200 BALTIMORE NATIONAL FREE
ELLSWORTH CITY, MARYLAND 21032
4107 441 - 2895

OWNER
DANIEL'S MILL OVERLOOK, LLC
96 MR. MICHAEL DIMONDAL
1790 TECH ROAD
SILVER SPRING, MD. 20904

DEVELOPER
THE RYLAND GROUP
ATTENTION: MR. CHARLES O'DONOVAN
BALL GOLF TOWERS
SUITE # 702
1447 WYOMING ROAD
LUTHERVILLE, MARYLAND 21093

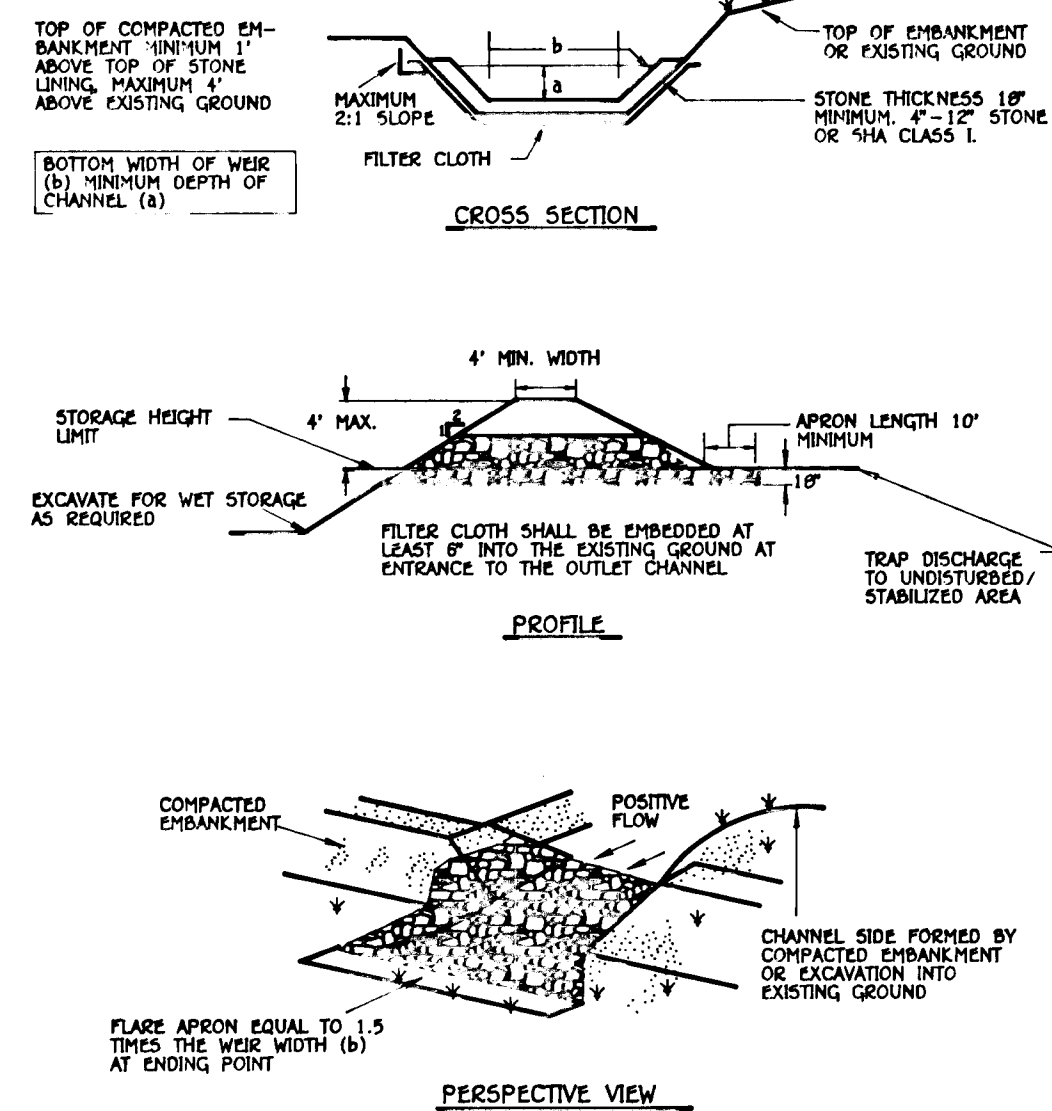


DRAINAGE AREA MAP & LANDSCAPE PLAN DANIELS MILL OVERLOOK

SECTION 2 AREA 4
LOTS 177 THRU 229
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 7 OF 14

SCALE: AS SHOWN DATE: SEPT 9, 1996

DETAIL 10 - RIP-RAP OUTLET SEDIMENT TRAP - ST III

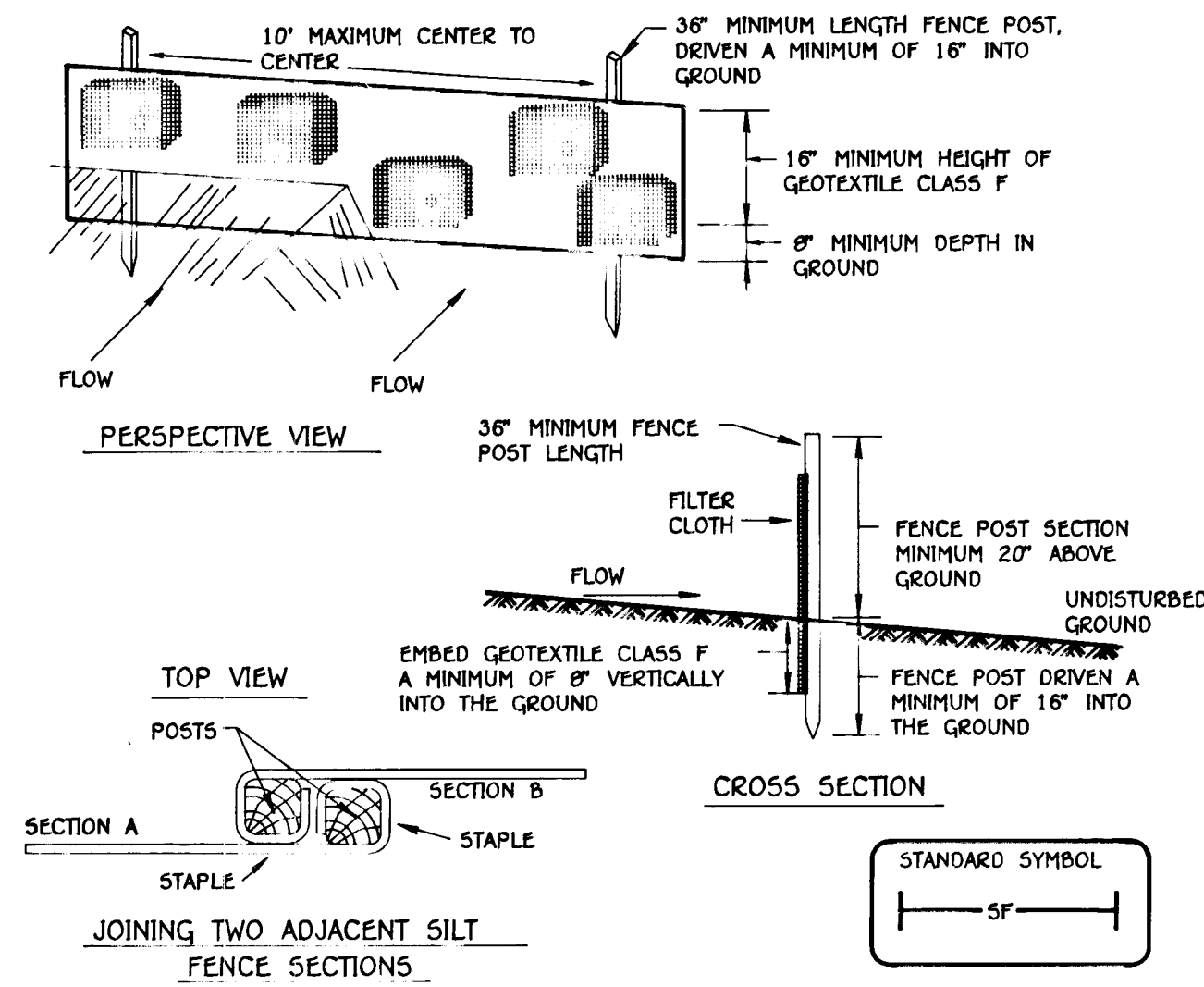


RIp-RAP OUTLET SEDIMENT TRAP - ST III

Construction Specifications

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be 4', measured at centerline of embankment.
- All cut and fill slopes shall be 2:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of trap embankment.
- Storage area provided shall be figured by computing the volume measured from top of excavation. (For storage requirements see Table 10).
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Section of fabric must overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6" into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be 4" - 12" placed 18" thick.
- Outlet - An outlet shall be provided, which includes a means of conveying the discharge in an erosion free manner to an existing stable channel. Protection against scour at the discharge end shall be provided as necessary.
- Outlet channel must have positive drainage from the trap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/4 of the wet storage depth of the trap (1350 cf/ac). Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected periodically after each rain and repaired as needed.
- Construction of traps shall be carried out in such a manner that sediment pollution is abated. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentrated inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.
- The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized.

DETAIL 22 - SILT FENCE



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile 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 / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

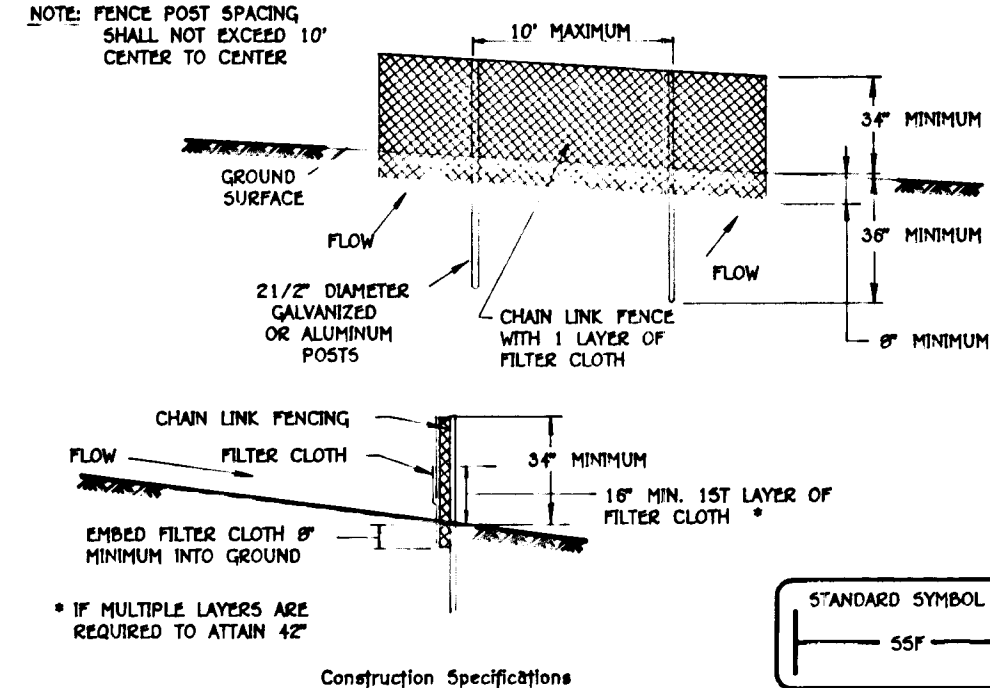
SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

DETAIL 33 - SUPER SILT FENCE



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 6" 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 all bulges 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:

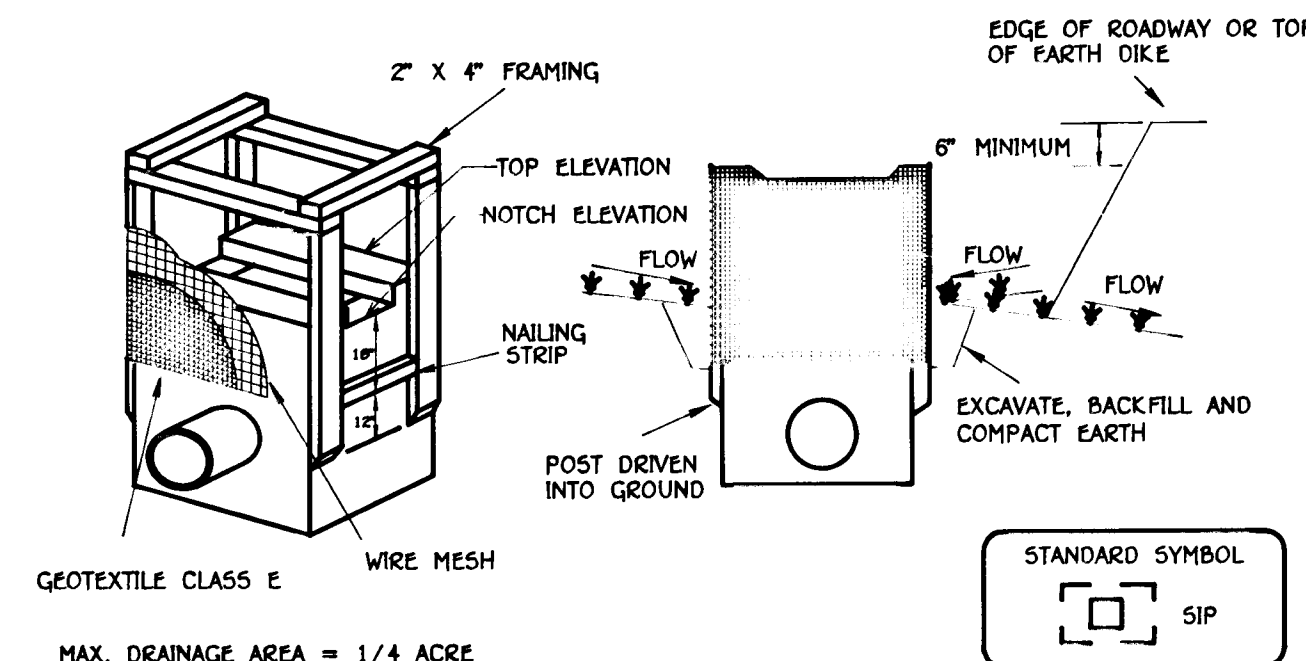
Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

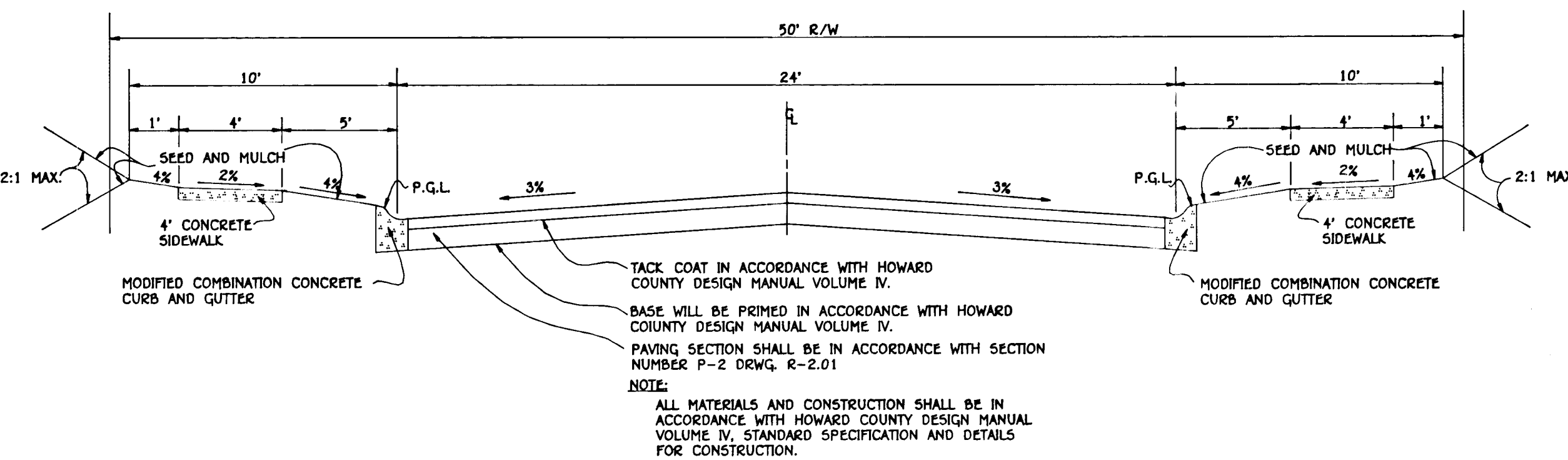
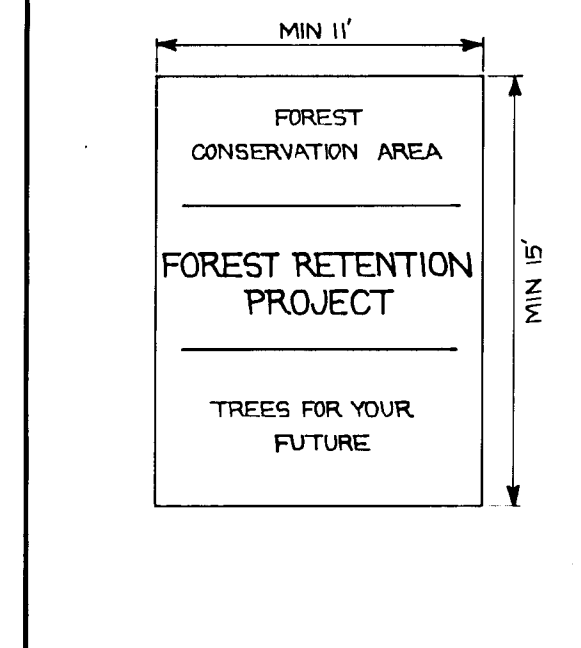
DETAIL 23A - STANDARD INLET PROTECTION



Construction Specifications

- Excavate completely around the inlet to a depth of 18" below the notch elevation.
- Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.
- Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
- Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
- Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
- If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
- The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

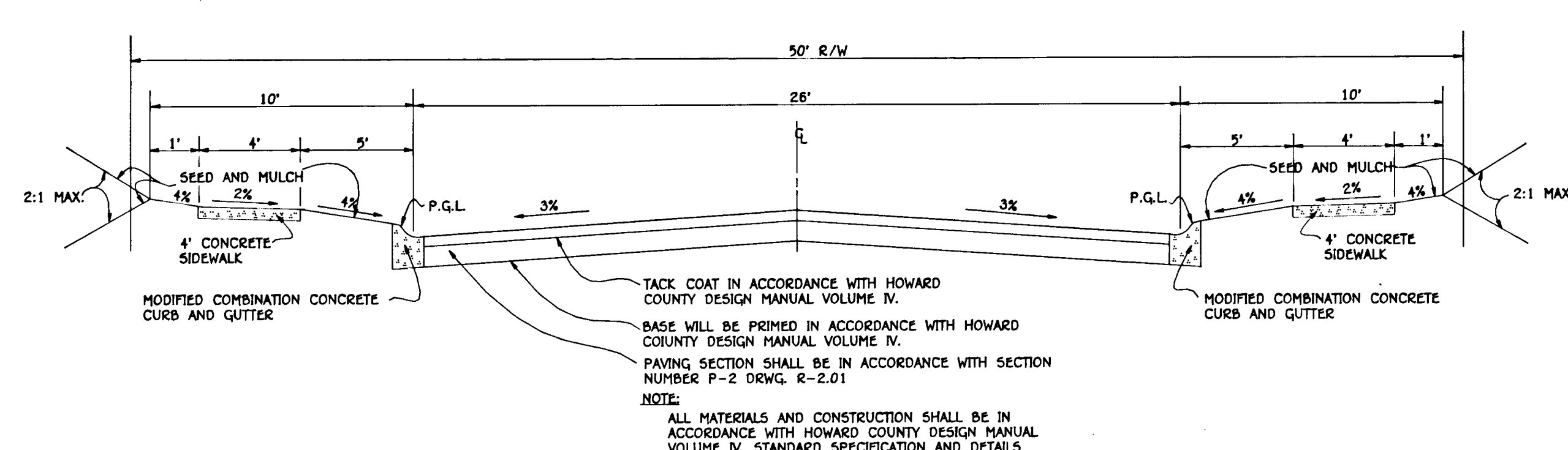
PERMANENT SIGNAGE DETAIL



TYPICAL ROADWAY SECTION (CUL-DE-SAC)

NO SCALE

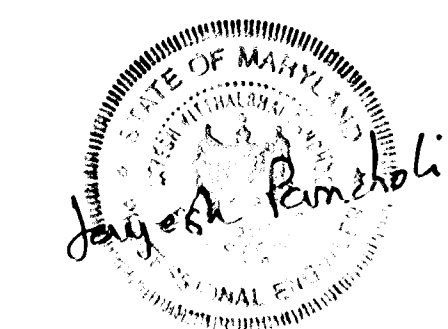
ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	STATION LIMITS	PAVING SECTION
STONE HOLLOW COURT	CUL-DE-SAC	25 M.P.H.	R-ED	0+50 TO 2+17.33	P-2
LAWRENCE HILL COURT	CUL-DE-SAC	25 M.P.H.	R-ED	0+00 TO 2+10.94	P-2
MILDDAM COURT	CUL-DE-SAC	25 M.P.H.	R-ED	0+00 TO 3+47.42	P-2
UNION HILLS COURT	CUL-DE-SAC	25 M.P.H.	R-ED	0+50.96 TO 2+70.99	P-2



TYPICAL ROADWAY SECTION (LOCAL ROAD AND CUL-DE-SAC)

NO SCALE

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	STATION LIMITS	PAVING SECTION
GROUND HILL COURT	CUL-DE-SAC	30 M.P.H.	R-ED	9+17.27 TO 11+01.30	P-2
CARROLL WIND DRIVE	LOCAL ROAD	30 M.P.H.	R-ED	5+66.93 TO 9+17.27	P-2



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: August P. Pincoli
DATE: 9-6-96

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: [Signature]
DATE: 9-4-96

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE
DATE: 2/13/97

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

APPROVED: [Signature]
DATE: 2/13/97

DISTRICT HOWARD SOIL CONSERVATION DIST.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
DATE: 3/5/97

CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature]
DATE: 2/5/97

CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature]
DATE: 2-20-97

CHIEF, BUREAU OF HIGHWAYS

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT (1 DAY).
- NOTIFY "MISS UTILITY" 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION (410) 313-1870, 24 HOURS BEFORE STARTING ANY WORK (1 DAY).
- INSTALL SEDIMENT CONTROL MEASURES: STONE CONSTRUCTION ENTRANCE, STONE OUTLET SEDIMENT TRAPS, EARTH DIKES, TREE PROTECTION DEVICES AND SILT FENCE STABILIZE TRAPS AND DIKES WITH TEMPORARY SEEDING (1 WEEK).
- GRADE SITE TO SUBGRADE, STABILIZE AND INSTALL STORM DRAINS AND INSTALL INLET PROTECTIONS (3 WEEKS).
- THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS.
- SEDIMENT SHALL BE REMOVED FROM THE STONE OUTLET SEDIMENT TRAPS ONCE THE CLEANOUT ELEVATIONS HAVE BEEN REACHED. SEDIMENT MUST BE PLACED UPHILL FROM THE TRAPS. SEE PLANS FOR CLEANOUT ELEVATIONS (1 DAY).
- INSTALL ROAD BASE COURSE (5 DAYS).
- INSTALL FOREBAY AND SHALLOW MARSH FACILITY (1 WEEK).
- REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED AND STABILIZE ALL DISTURBED AREAS (2 DAYS).
- REMOVE INLET PROTECTIONS AND FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT.
- APPLY TACK COAT TO SUB-BASE AND LAY SURFACE COURSE (4 DAYS).
- REMOVE ALL SEDIMENT CONTROL MEASURES UPON SEDIMENT CONTROL INSPECTORS APPROVAL (2 DAYS).
- ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING (2 DAYS).

SEDIMENT CONTROL NOTES AND DETAILS DANIELS MILL OVERLOOK

SECTION 2 AREA 4
LOTS 177 THRU 221
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 10 OF 14

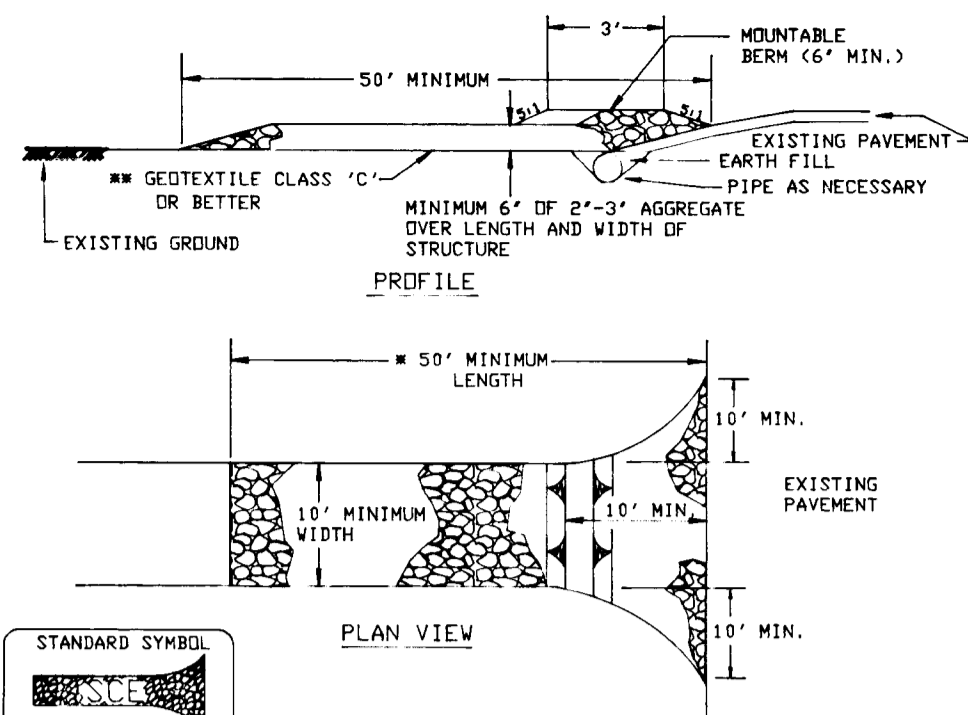
SCALE: AS SHOWN DATE: SEPT. 9, 1996

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SERVICE OFFICE PARK - 10274 BALDWIN NATIONAL FIRE
BLVD. GAITHERSBURG, MARYLAND 20878
(410) 461-2895

OWNER
DANIELS MILL OVERLOOK, LLC
106 MR. MICHAEL BIFFENDEN
11700 TECH ROAD
SILVER SPRING, MD. 20904

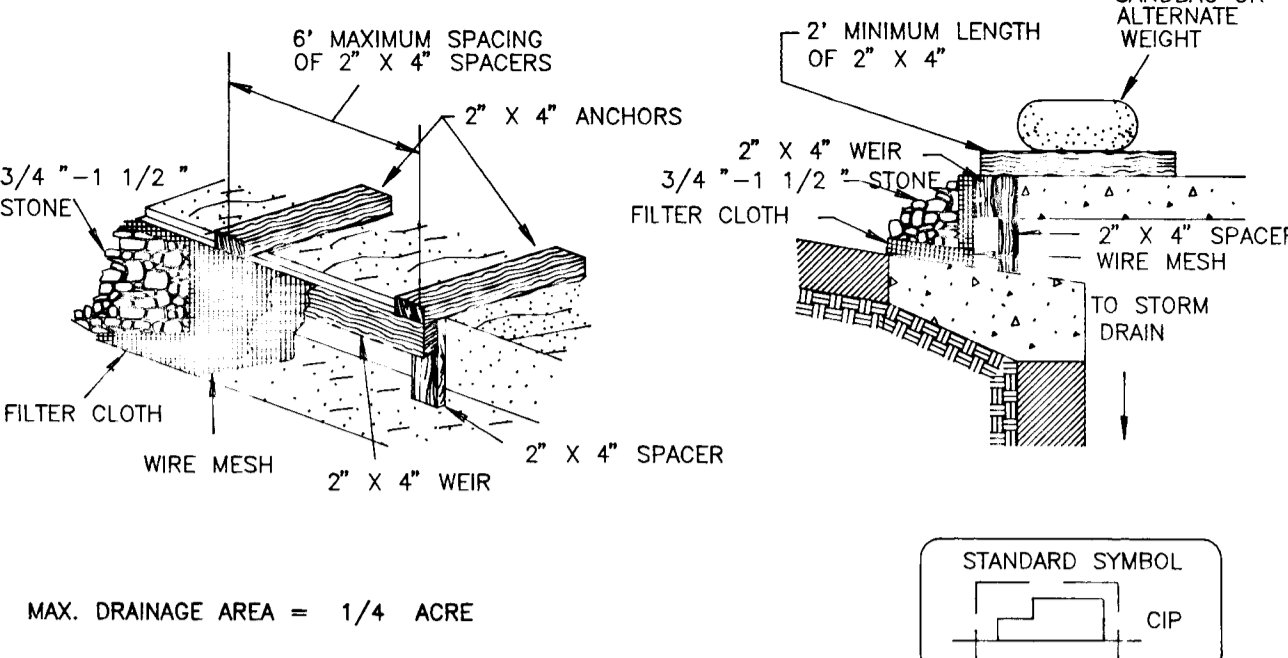
DEVELOPER
THE "L" GROUP
ATTENTION: MR. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE 4705
1447 YORK ROAD
LUTHERVILLE, MD 21093

1783



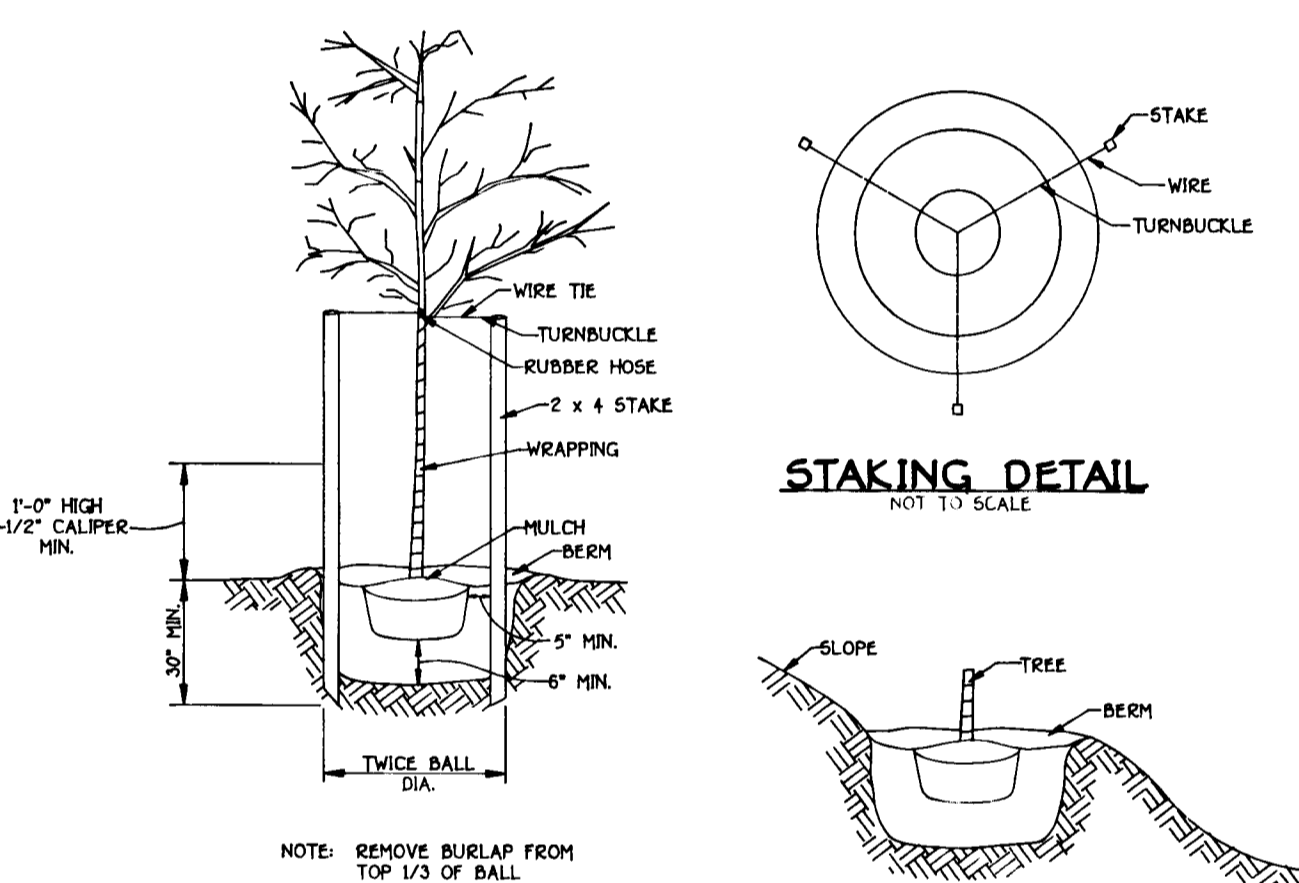
- Construction Specifications**
- Length - minimum of 50' (#30' for single residence lots).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. #10 plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 2:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE

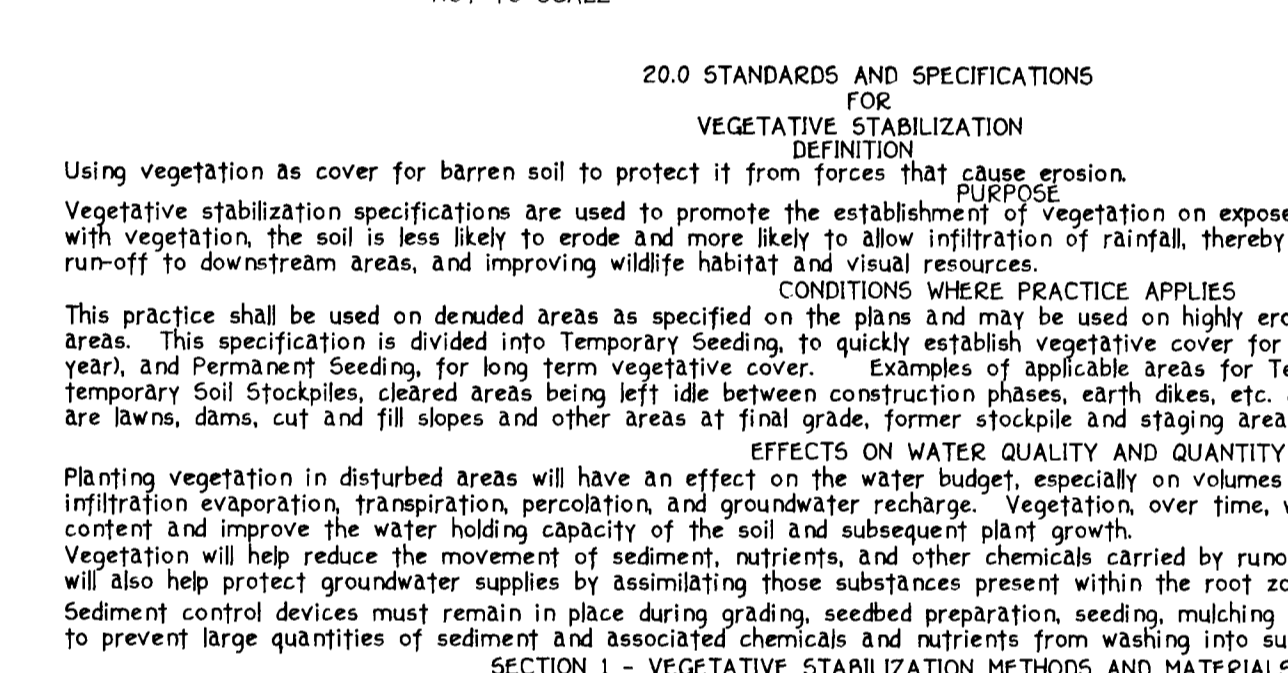


- Construction Specifications**
- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
 - Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

STANDARD CURB INLET PROTECTION
NOT TO SCALE



TREE PLANTING
NOT TO SCALE

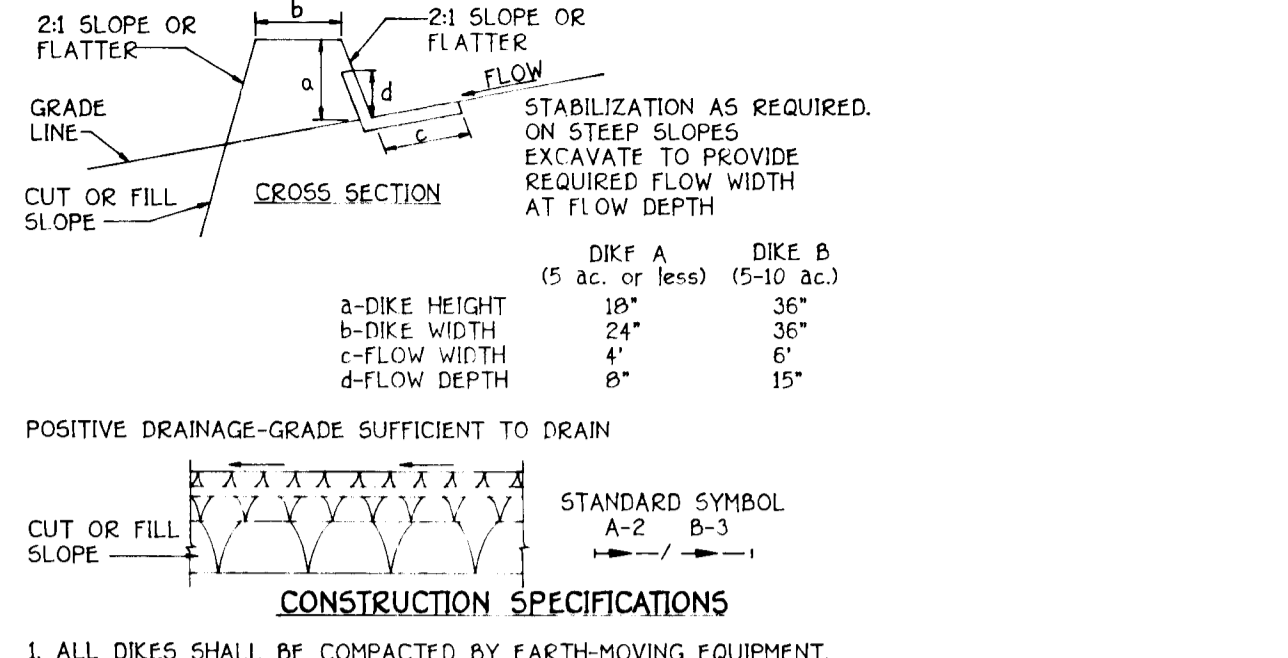


GRADING FOR PLANTING ON SLOPES
NOT TO SCALE

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (93-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE, IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**
TOTAL AREA OF SITE: 31.64 ACRES
AREA DISTURBED: 17.27 ACRES
AREA TO BE ROOFED OR PAVED: 4.95 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.19 ACRES
TOTAL CUT: 35,400 CU.YDS.
TOTAL FILL: 29,400 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION: N/A CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10212 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2955



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE CHANNEL ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

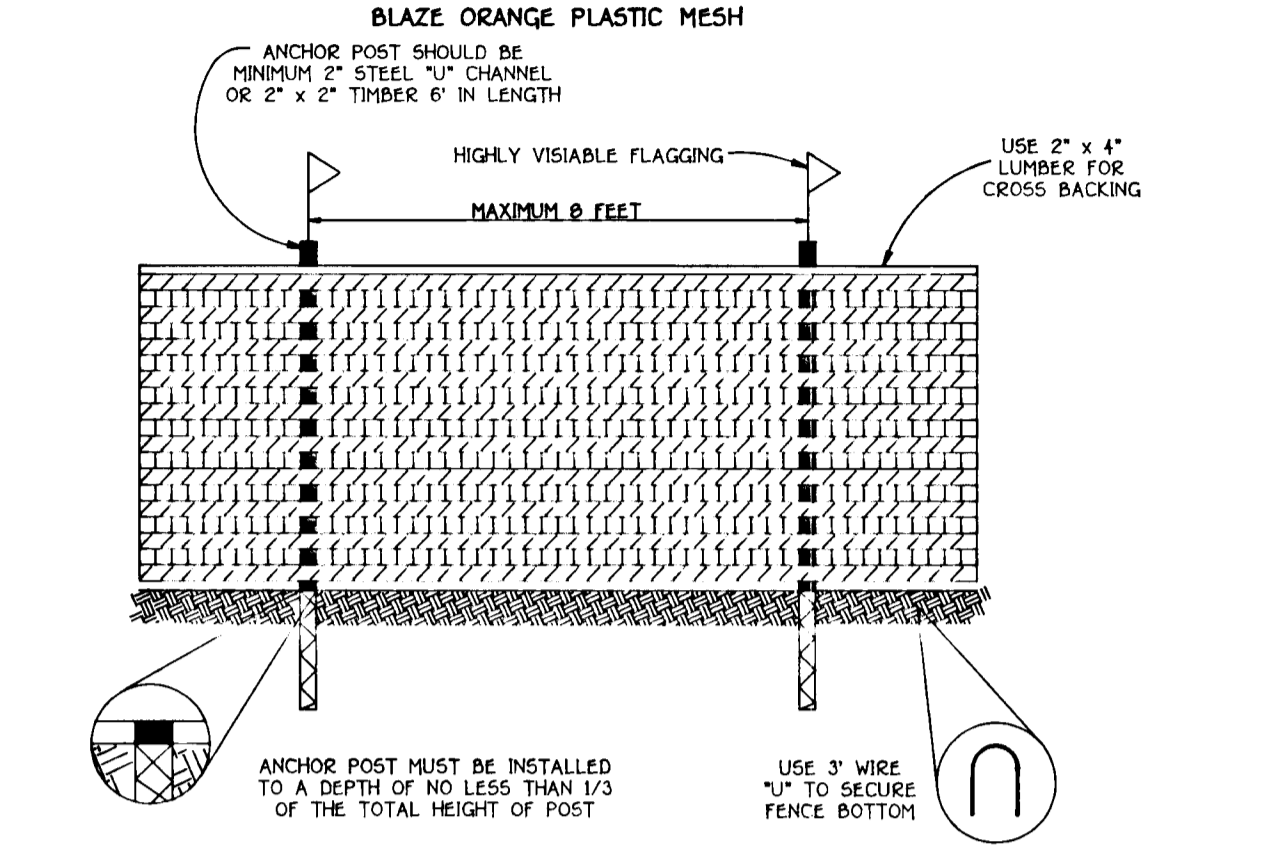
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0X	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELISIOR, 500; 2\"/>
3	5.1-8.0X	SEED WITH JUTE, OR SOD; 2\"/>	
4	8.1-20X	LINED RIP-RAP 4\"/>	

FLOW CHANNEL STABILIZATION

- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- RIIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE
NOT TO SCALE

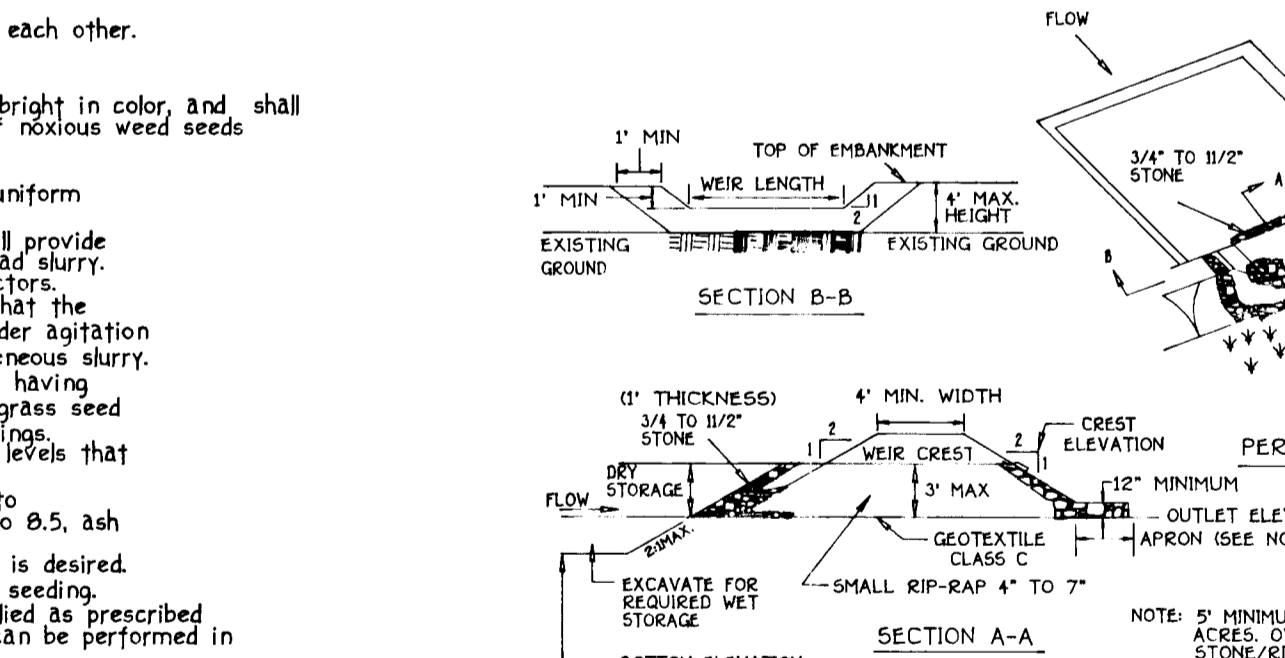


- NOTES:**
- FOREST PROTECTION DEVICE ONLY.
 - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - ROOT DAMAGE SHOULD BE AVOIDED.
 - PROTECTIVE SIGNAGE MAY ALSO BE USED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT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

TREE PROTECTION DETAIL
NOT TO SCALE

Incremental Stabilization - Cut Slopes

- All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
 - Construction sequence (Refer to Figure 3 below):
a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
b. Perform Phase 1 excavation, dress, and stabilize.
c. Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
d. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Note:** Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization.
- Incremental Stabilization of Embankments - Fill Slopes
i. Embankments shall be constructed in lifts as prescribed on the plans.
ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15'.
iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping structure.
iv. Construction sequence: Refer to Figure 4 (below):
a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
b. Place Phase 1 embankment, dress and stabilize.
c. Place Phase 2 embankment, dress and stabilize.
d. Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.
- Note:** Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.



- Construction Specifications**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be constructed by traversing with equipment while it is being constructed.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small rip-rap 4" to 7" in size with a 1" thick layer of 3/4" to 1 1/2" washed aggregate placed on the upstream face of the outlet. Stone facing shall be as smooth as possible to prevent chipping. Geotextile Class C may be substituted for the stone facing by placing it on the inside face of the stone outlet.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL 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 COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph M. Daniels 9-4-96
SIGNATURE OF DEVELOPER DATE

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 COUNTY SOIL CONSERVATION DISTRICT."

Joseph M. Daniels 9-6-96
SIGNATURE OF ENGINEER DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Joseph M. Daniels
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Joseph M. Daniels 2-3-97
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING
Joseph M. Daniels 4/25/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Joseph M. Daniels 2-20-07
CHIEF, BUREAU OF HIGHWAYS DATE

SEDIMENT CONTROL NOTES AND DETAILS

DANIELS MILL OVERLOOK
SECTION 2 AREA 4
LOTS 177 THRU 229
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: SEP. 9, 1996
SHEET 11 OF 14

SCHEDULE 'A' - PERIMETER LANDSCAPE EDGE SECTION 2 AREA 4

PERMETER CATEGORY	1 ALL SIDEYARDS	2 ALL SIDEYARDS	3 ALL SIDEYARDS	4 ALL SIDEYARDS	5 ALL SIDEYARDS	6 ALL SIDEYARDS	7 ALL SIDEYARDS	8 ALL SIDEYARDS	9 ALL SIDEYARDS
LANDSCAPE TYPE	B	B	B	B	B	B	B	B	B
LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	100'	100'	100'	90'	120'	50'	120'	75'	70'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET, DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	NO	NO	NO
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET, DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS PROVIDED	2	2	2	2	2	1	2	2	1
EVERGREEN TREES	3	3	3	2	3	1	3	2	2
SHRUBS	-	-	-	-	-	-	-	-	-
EVERGREEN TREES OTHER TREES (21 SUBST) SHRUBS (101 SUBST) DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED									
INSTALLED BY: B-BUILDER D-DEVELOPER	B*	B	B	B	B	B	B	B	B

* PERIMETERS P-1 - P-9 TO BE INSTALLED AT TIME OF SITE DEVELOPMENT PLAN, WHEN ORIENTATION OF OF HOUSE, AND GRADING, ARE ESTABLISHED, BOND AT SDP.

STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	ROAD STA.	OFFSET	TYPE	REMARKS
I-40	444.43	438.50	438.25	LAWRENCE MILL COURT	L.P. STA. 1+33.77	2.95' LT	A-5 INLET	S.D. 4.40
I-41	447.00	442.00	442.00				'D' INLET	S.D. 4.39
I-42	453.30	448.75	448.50	CARROLL WIND DRIVE	C.L. STA. 6+20	15.95' LT	A-5 INLET	S.D. 4.40
I-43	453.30	449.05	449.05	CARROLL WIND DRIVE	C.L. STA. 6+20	15.95' RT	A-5 INLET	S.D. 4.40
I-44	434.00	430.30	430.30	MILDAM COURT	L.P. STA. 0+82.74	2.95' LT	A-5 INLET	S.D. 4.40
I-45	436.66	429.21	428.96	MILDAM COURT	C.L. STA. 2+83.50	14.95' LT	A-5 INLET	S.D. 4.40
I-46	436.66	429.74	429.49	MILDAM COURT	C.L. STA. 2+81.50	14.95' RT	A-10 INLET	S.D. 4.41
I-47	438.58	432.97	432.97				'D' INLET	S.D. 4.39
I-48	422.74	417.13	416.88	GROUND MILL COURT	L.P. STA. 1+06	2.95' LT	A-5 INLET	S.D. 4.40
I-49	439.58	424.92	423.97	GROUND MILL COURT	C.L. STA. 10+13	14.95' RT	A-5 INLET	S.D. 4.40
I-50	429.72	425.22	425.22	CARROLL WIND DRIVE	C.L. STA. 10+13	14.95' LT	A-10 INLET	S.D. 4.41
I-51	438.00	433.45	433.20	CARROLL WIND DRIVE	C.L. STA. 8+75	14.95' LT	A-5 INLET	S.D. 4.40
I-52	438.00	433.75	433.75	CARROLL WIND DRIVE	C.L. STA. 8+75	14.95' RT	A-5 INLET	S.D. 4.40
M-19	445.17	440.50	440.67	LAWRENCE MILL COURT	L.P. STA. 0+62.48	31' LT	STD. MANHOLE	G 5.01
M-20	446.54	441.54	441.29	LAWRENCE MILL COURT	L.P. STA. 0+07.5	9' LT	STD. MANHOLE	G 5.01
M-21	450.26	445.76	445.51	LAWRENCE MILL COURT	C.L. STA. 0+45	20' LT	STD. MANHOLE	G 5.01
M-22	434.06	430.20	429.85				STD. MANHOLE	G 5.01
M-23	437.95	430.41	430.16	MILDAM COURT	C.L. STA. 2+38	15.1' RT	STD. MANHOLE	G 5.01
M-24	436.00	431.95	431.70				STD. MANHOLE	G 5.01
M-25	434.22	428.72	428.47	GROUND MILL COURT	C.L. STA. 9+40	16' LT	STD. MANHOLE	G 5.01
M-22A	428.00	424.40	424.15				STD. MANHOLE	G 5.01
M-19A	434.67	431.17	430.92				STD. MANHOLE	G 5.01
M-25A	410.00	405.50	405.25				STD. MANHOLE	G 5.01
S-12	432.00	430.50	430.50				CONC. END SECT.	S.D. 5.51
S-13	424.20	422.70	422.70				CONC. END SECT.	S.D. 5.51
S-14	401.50	400.00	400.00				CONC. END SECT.	S.D. 5.51

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.

Joseph Pancholi 9-6-96
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.

Richard Blood 9-4-96
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Keigh Simmons 2/13/97
U.S. SOIL CONSERVATION DISTRICT DATE

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

John B. DeLeon 2/13/97
APPROVED: DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Mr. [Signature] 2/25/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert M. [Signature] 2-20-97
CHIEF, BUREAU OF HIGHWAYS DATE

TRAP DATA

TRAP NO.	STONE OUTLET ST II TRAP #7	RIPRAP OUTLET ST IV TRAP #8	RIPRAP OUTLET ST IV TRAP #9	STONE OUTLET ST II TRAP #10
DRAINAGE AREA	3.10 AC.	3.47 AC.	1.40 AC.	3.80 AC.
STORAGE REQUIRED	11,160 C.F.	12,492 C.F.	5,040 C.F.	13,680 C.F.
STORAGE PROVIDED	12,264 C.F.	12,500 C.F.	5,632 C.F.	13,800 C.F.
WEIR CREST ELEV.	427.00	419.00	403.00	391.00
BOTTOM ELEV.	424.00	416.00	400.00	388.00
DEPTH	3'	3'	3'	3'
SIDE SLOPES	2:1	3:1	2:1	2:1
TOP EMBANKMENT	428.00	420.00	404.00	392.00
WEIR LENGTH	13'	10'	6'	10'
CLEANOUT ELEV.	425.50	417.50	401.50	389.50

1783

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1100 W. 10TH ST. SUITE 100
ELICOTT CITY, MARYLAND 21042
410-281-2055

OWNER
DANIELS MILL OVERLOOK, LLC
C/O MR. MICHAEL DIFFENBACH
11900 TECH ROAD
SILVER SPRING, MD. 20904

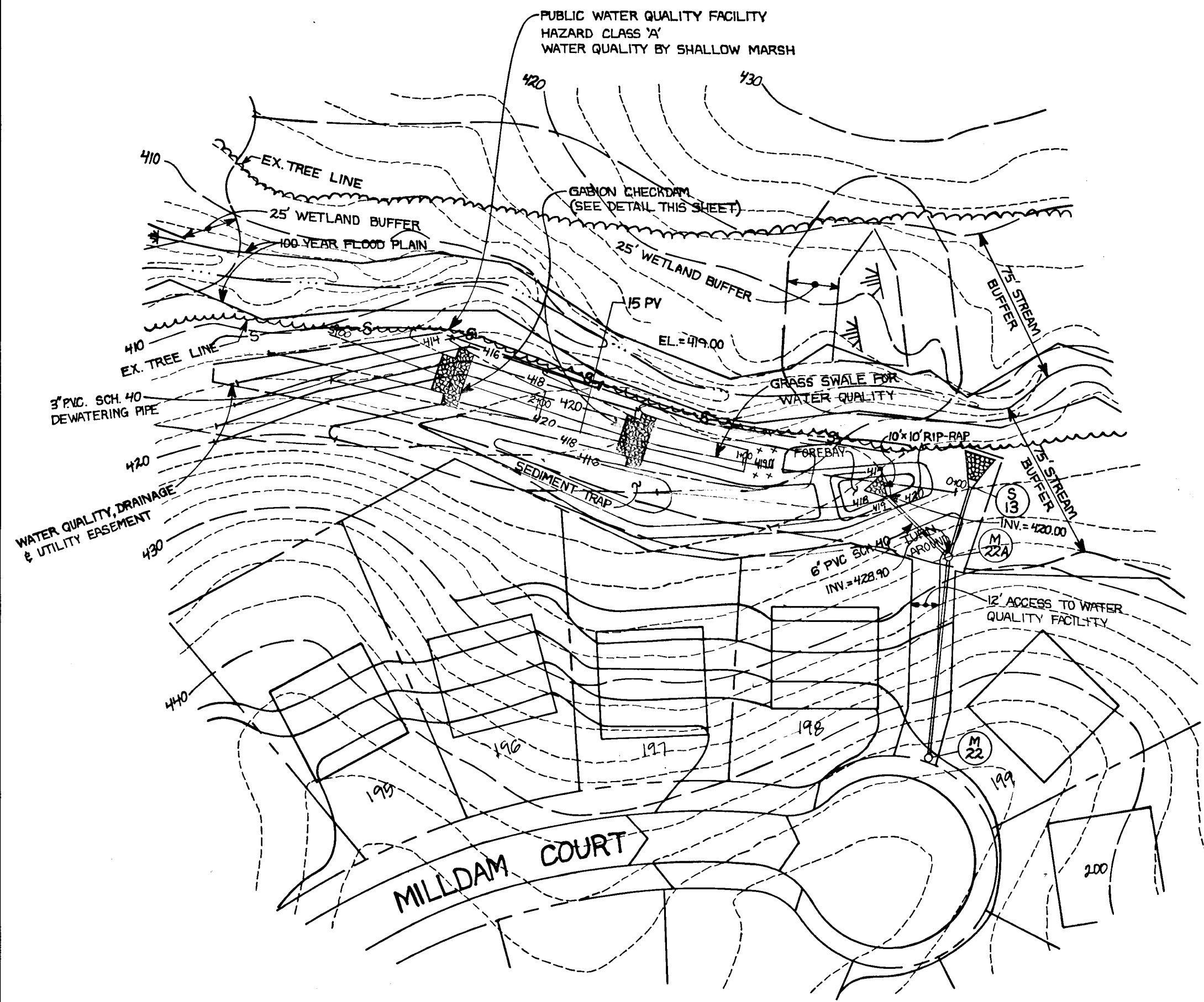
DEVELOPER
THE TRAYLAND GROUP
ATTENTION: MRS. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE #705
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21045



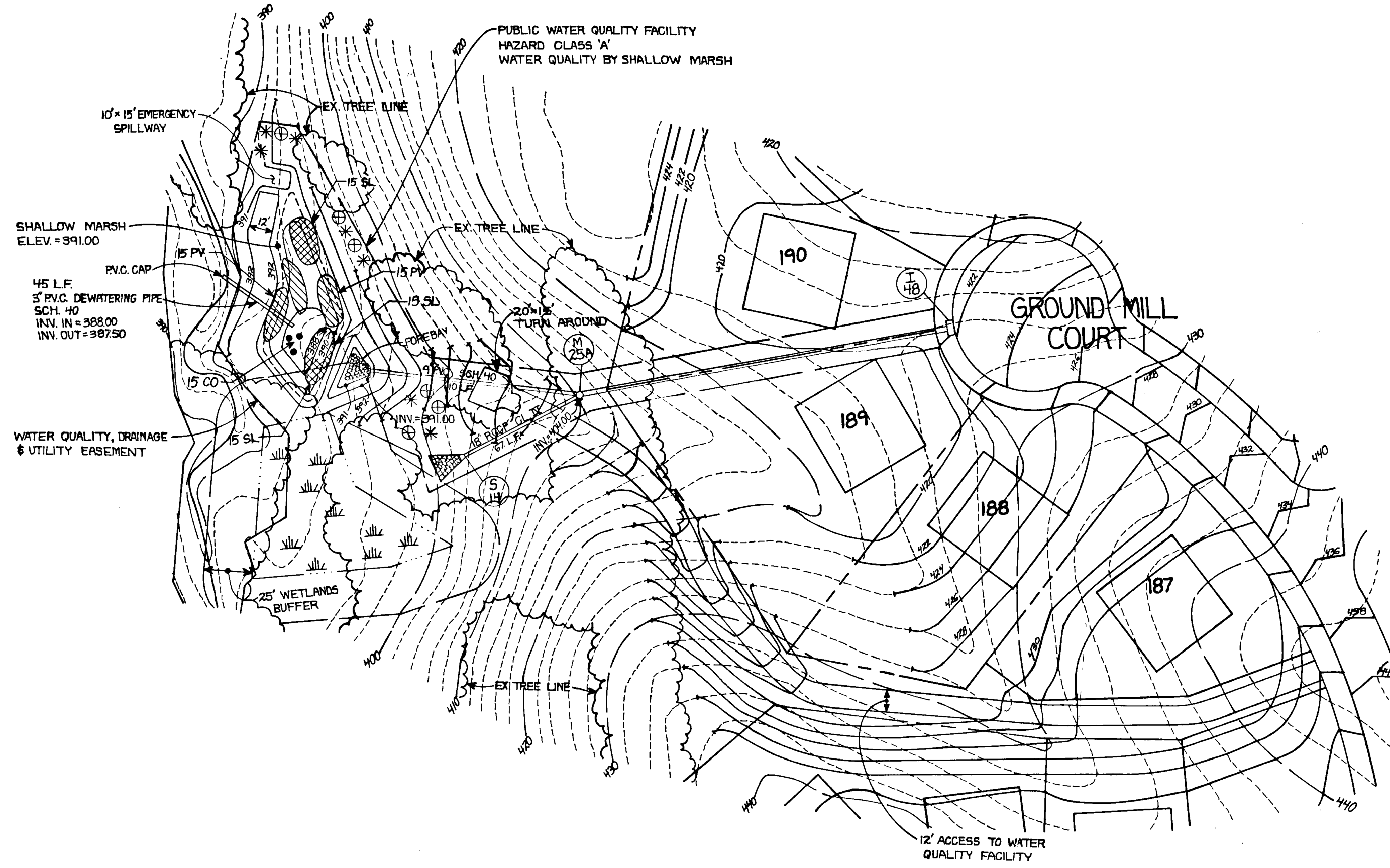
STRUCTURE SCHEDULE, TRAP DATA AND LANDSCAPE PLAN DANIELS MILL OVERLOOK

SECTION 2 AREA 4
LOTS 177 THRU 229
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 12 OF 14

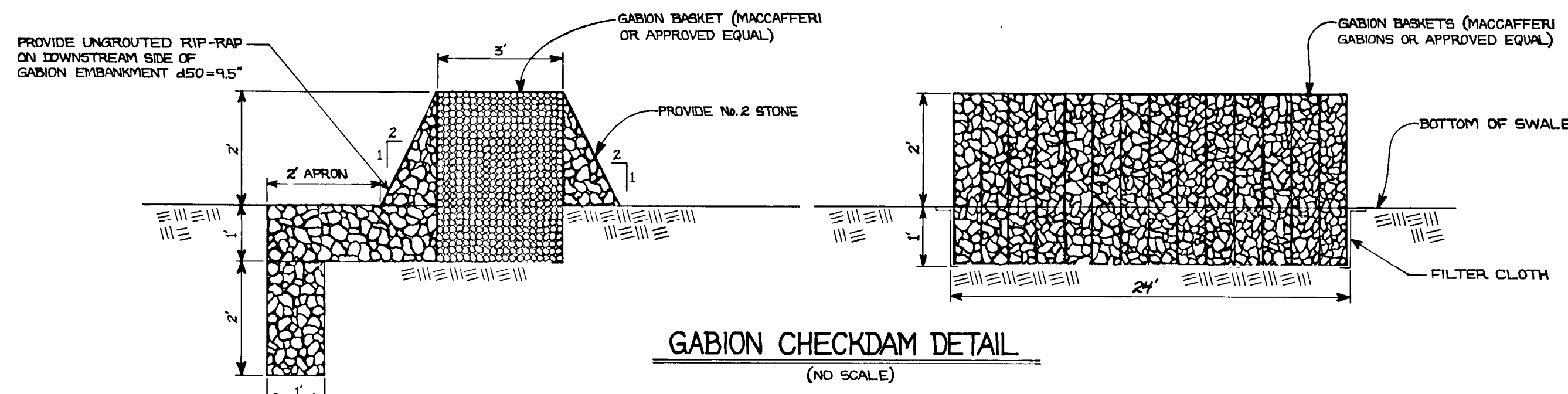
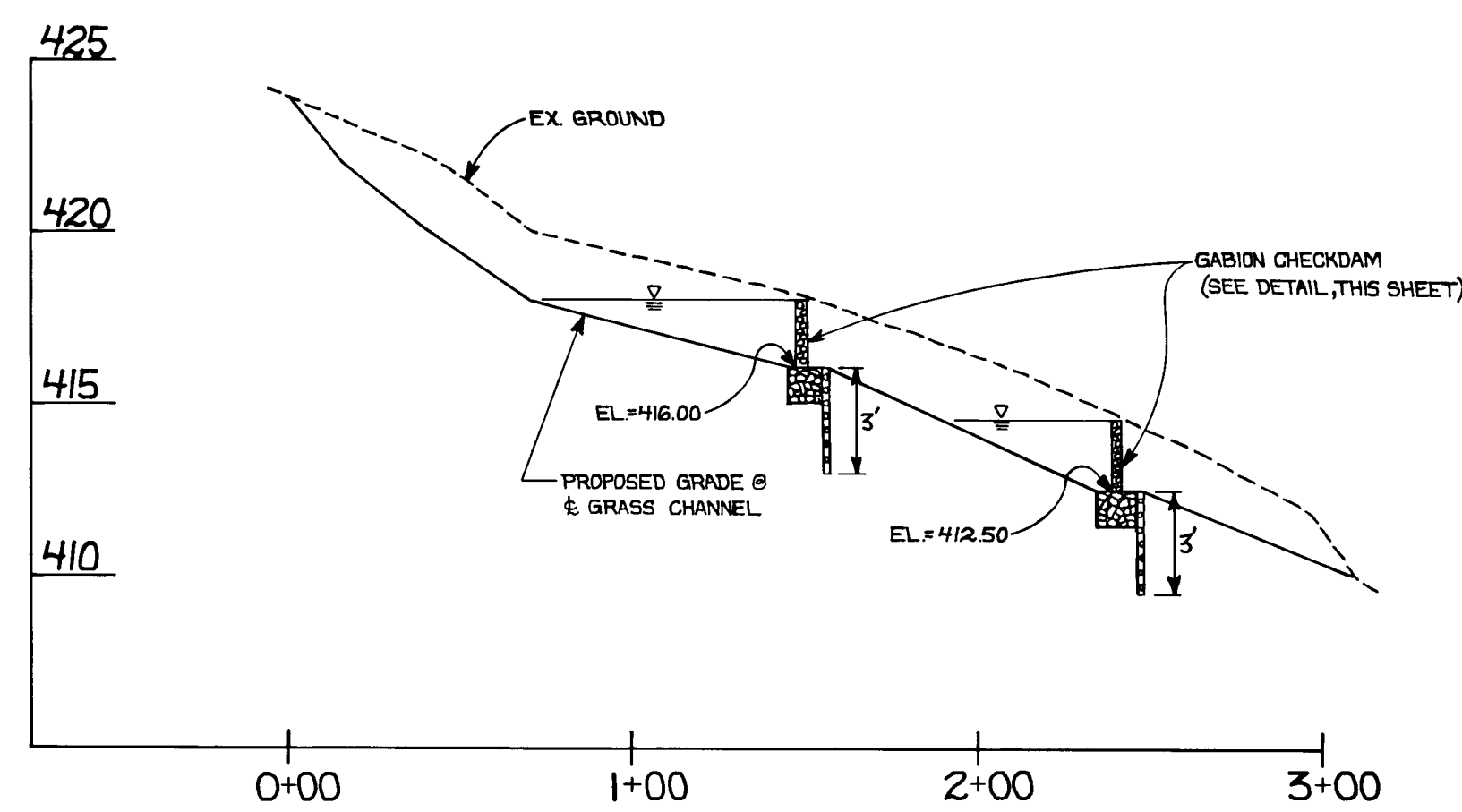
SCALE: AS SHOWN DATE: SEPT. 19, 1996



WATER QUALITY FACILITY NO. 7
PLAN
 SCALE: 1"=50'



WATER QUALITY FACILITY NO. 8
PLAN
 SCALE: 1"=50'



GABION CHECKDAM DETAIL
 (NO SCALE)

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.

Joseph Parnochi 9-6-96
 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.

Michael Blood 9-4-96
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Clayton Summers 2/13/97
 U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John L. Kuntz 2/13/97
 DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richard Blood 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT TC DATE

John Summers 2/15/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION JTC DATE
 APPROVED: DEPARTMENT OF PUBLIC WORKS

Stephen M. D'Amico 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE PE. NO. DATE

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEANOR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF PONDS (AS SHOWN HEREON) SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (ND-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH

- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
- REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
- ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED, VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANY TIME.
- CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
- NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.



WATER QUALITY DANIELS MILL OVERLOOK

SECTION 2 AREA 4
 LOTS 177 THRU 229
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 13 OF 14

SCALE: 1"=50' DATE: SEPT. 9, 1996

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 11000 ROCKHILL ROAD, SUITE 200
 ELKLOTT CITY, MARYLAND 21042
 (410) 461-2855

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DIFFENDAL
 17900 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE 705
 4417 YORK ROAD
 LUTHERVILLE, MARYLAND 21043

WATER QUALITY CONSTRUCTION SPECIFICATIONS

SPECIFICATIONS

I. SITE PREPARATION: AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1.

AREAS TO BE COVERED BY THE POND OR RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCE, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREE, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH GROUND SURFACE. FOR DRY STORMWATER MANAGEMENT POND, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

II. EARTH FILL:

MATERIAL: THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHALL CONFORM TO UNITED SOIL CLASSIFICATION GC, SC, CH, OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 6-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

COMPACTION: THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER Tired OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99.

STRUCTURE BACKFILL: BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

PIPE CONDUITS: ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

POLYVINYL CHLORIDE (PVC) PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE (PVC) PIPE:

- MATERIALS - PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.
- JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATER-TIGHT.
- BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
- BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".
- OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

CONCRETE CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 608, MIX NO. 3.

ROCK RIPRAP

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN THE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919J2.

CARE OF WATER DURING CONSTRUCTION

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COUNTERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTION OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

STABILIZATION: ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION & SEDIMENT CONTROL: CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED & WATER & AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.

KEY		WATER QUALITY FACILITY NUMBER			
SL	B				
SA	15				
CO	15				
PV	30				
PC	15				

SEE SHEET 13 FOR PLAN VIEW.

- NOTES:
- ALL PLANT MATERIAL TO BE WET GROWN OR ADAPTED TO WETLAND CONDITIONS.
 - ALTERATIONS TO THE GRADING SHOWN MAY AFFECT THE SUCCESS OF THE PLANT MATERIAL.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.

PLANT LIST			
QTY.	KEY	NAME	SIZE
6	⊕	ACER RUBRUM (OCTOBER GLORY) (OCTOBER RED MAPLE)	2-2 1/2" CALIPER FULL CROWN B & B
7	*	PINUS STROBILUS (EASTERN WHITE PINE)	6'-8' HEIGHT

*THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 14.218 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE (3) REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF 13x 100 = \$1,300.00

PLANT SPECIES SIZE REMARKS

PRIMARY WETLAND VEGETATION				
SL	B			
SAGITTARIA LATIFOLIA (SL)	ROOTS	36"	OC	
DUCK POTATO (SA)	ROOTS	36"	OC	
SCIRPUS AMERICANUS (SA)	ROOTS	36"	OC	
COPROSMA TRIFLORIS (SA)	ROOTS	36"	OC	
SECONDARY WETLAND VEGETATION				
CEPHALOTHRIX OCCIDENTALIS (CO)	ROOTS	36"	OC	
BUTTON BUSH (PV)	ROOTS	36"	OC	
MELTANDEA VIRGATICA (PV)	ROOTS	36"	OC	
ARROW-ARUM (PV)	ROOTS	36"	OC	
PONTEDERIA COORDATA (PC)	ROOTS	36"	OC	
POCKEREL WEED (PC)	ROOTS	36"	OC	

SCHEDULE D WATER QUALITY AREA LANDSCAPING

WATER QUALITY FACILITY NUMBER	B	
LINEAR FEET OF PERIMETER	450	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR) DESCRIBE BELOW IF NEEDED.	140	
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR) DESCRIBE BELOW IF NEEDED.		
NUMBER OF PLANTS REQUIRED	BASED ON 310 L.F. 6 (1/30) 7 (1/140)	
NUMBER OF PLANTS PROVIDED	SYMBOL 6 ⊕ 7 *	

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.

Danesh Pancholi
SIGNATURE OF ENGINEER
DATE: 9-6-96

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.

Danesh Pancholi
SIGNATURE OF DEVELOPER
DATE: 9-9-96

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Charles Summers
USDA - NATURAL RESOURCES CONSERVATION SERVICE
DATE: 2/13/97

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

John R. Dutton
DIRECTOR, HOWARD SOIL CONSERVATION DISTRICT
DATE: 2/13/97

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richard Blood
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 3/5/97

William D. Dammann
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 2/25/97

APPROVED: DEPARTMENT OF PUBLIC WORKS

Richard M. Danville
CHIEF, BUREAU OF HIGHWAYS
DATE: 3-20-97

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE
PE. NO. _____
DATE _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEANOR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF PONDS SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SC5 (STANDARDS AND SPECIFICATIONS FOR PONDS) (MD-378). THE POND OWNERS(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNERS(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH

- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
- REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
- ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED, VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANYTIME.
- CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
- NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.

WATER QUALITY DANIELS MILL OVERLOOK

SECTION 2 AREA 4
LOTS 177 THRU 229

ZONED R-10
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 14 OF 14

DATE: SEPT 9, 1996



OWNER
DANIELS MILL OVERLOOK, LLC
C/O MR. MICHAEL O'DONOVAN
1900 TECH ROAD
SILVER SPRING, MARYLAND 20904

DEVELOPER
THE RYLAND GROUP
ATTENTION: MR. CHARLES O'DONOVAN
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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
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ELLSWORTH CITY, MARYLAND 21042
410.461.2855

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