

VICINITY MAP SCALE: 1" = 2,000'

GENERAL NOTES

- TOPOGRAPHY SHOWN ON THIS DRAWING HAS BEEN TRACED FROM AS-BUILT DRAWINGS PREPARED BY WHITMAN REQUARDT. THE OWNER OR ARCHITECT DO NOT IN ANY WAY GUARANTEE THE INFORMATION SHOWN HEREON, NOR DOES ANY INFORMATION SHOWN OR LACK THEREOF RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR CORRECT AND PROPER COMPLETION OF GRADING.
- ALL TREES 12" IN DIAMETER OR GREATER SHALL REMAIN PROTECTED AND UNDAUNED AT ALL TIMES. PATHWAY WILL BE STAKED OUT PRIOR TO CONSTRUCTION TO AVOID TREES. TREES UNDER 6" WHICH CANNOT BE AVOIDED WILL BE RELOCATED OR REPLACED WITHIN AREA BETWEEN PATHWAY AND ROAD.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS PRIOR TO SUCH ADJUSTMENTS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH SEDIMENT CONTROL NOTES AS DOCUMENTED ON THESE PLANS AND AGREEMENT BETWEEN COLUMBIA ASSOCIATION AND MCSD DATED 3/2/87.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES NOT SHOWN ON THESE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND MAINTAIN MINIMUM COVER REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 "MISS UTILITY" 1-(800) 257-7777
 BALTIMORE GAS & ELECTRIC COMPANY (301) 234-5691
 C & P TELEPHONE COMPANY (301) 393-3648
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.
- ALL UTILITIES ARE TO BE RETAINED UNLESS MARKED OTHERWISE AND APPURTENANCES ARE TO BE ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION/INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 313-2417 OR 313-2418.
- PRIOR TO START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) AND DIMENSIONS.
- THE CONTRACTOR SHALL USE THE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS LICENSES AND PERMITS APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND THE GRADING OR BUILDING PERMIT.
- ANY DAMAGE TO COUNTY RIGHTS-OF-WAY AND PAVING OF PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND STANDARDS.
- ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE OF COMPACTION TO 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY ASTM D-698.
- STRUCTURES NOTED FOR REMOVAL SHALL BE REMOVED ENTIRELY AND COMPLETELY. REMOVAL OF UTILITIES OR MATERIALS THAT ARE BELOW GRADE SHALL HAVE THE SURFACE ABOVE RESTORED TO MATCH ADJACENT GRADES.
- THE DEVELOPER SHALL IMPLEMENT AND ADEQUATELY MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES INCLUDING LIMITING THE DISTURBANCE TO EXISTING VEGETATION AND STEEP SLOPES FOR AREAS ADJACENT TO WETLANDS AND STREAMS.
- ALL PROPOSED PATHWAY LOCATIONS SHALL BE FIELD STAKED AND APPROVED BY THE PROJECT ENGINEER. PATHWAYS SHALL BE LAID OUT 10' FROM EXISTING STREAM CHANNELS WHERE OPEN SPACE PROPERTY LIMITS PERMIT.
- THE CONTRACTOR SHALL STAKEOUT AND CONSTRUCT PATH CONNECTIONS IN A MANNER THAT AVOIDS IMPACT TO EXISTING UTILITIES, AND SHALL MEET EXISTING SIDEWALKS AND/OR CURBS WHEN FEASIBLE.
- ALL PROPOSED IMPROVEMENTS SHALL BE MAINTAINED BY THE OWNER.
- STORMWATER MANAGEMENT WILL BE PROVIDED BY EXISTING FACILITIES AS IDENTIFIED ON APPROVED PLANS F-86-127, 86-182, 87-63 AND 87-125.
- COLUMBIA ASSOCIATION WILL BE RESPONSIBLE FOR MAINTAINING THE PATHWAY.
- COLUMBIA PARKS & RECREATION ASSOCIATION WILL GUARANTEE ANY NEW OR RELOCATED TREES FOR A PERIOD OF TWO YEARS.
- A RED LINE "AS BUILT" WILL BE REQUIRED SHOWING PATHWAY FINAL ALIGNMENT AND TREE LOCATIONS.
- HANDICAP RAMPS WILL BE CONSTRUCTED AT ALL CROSSINGS IN ACCORDANCE WITH DETAIL 3 SHEET 12.

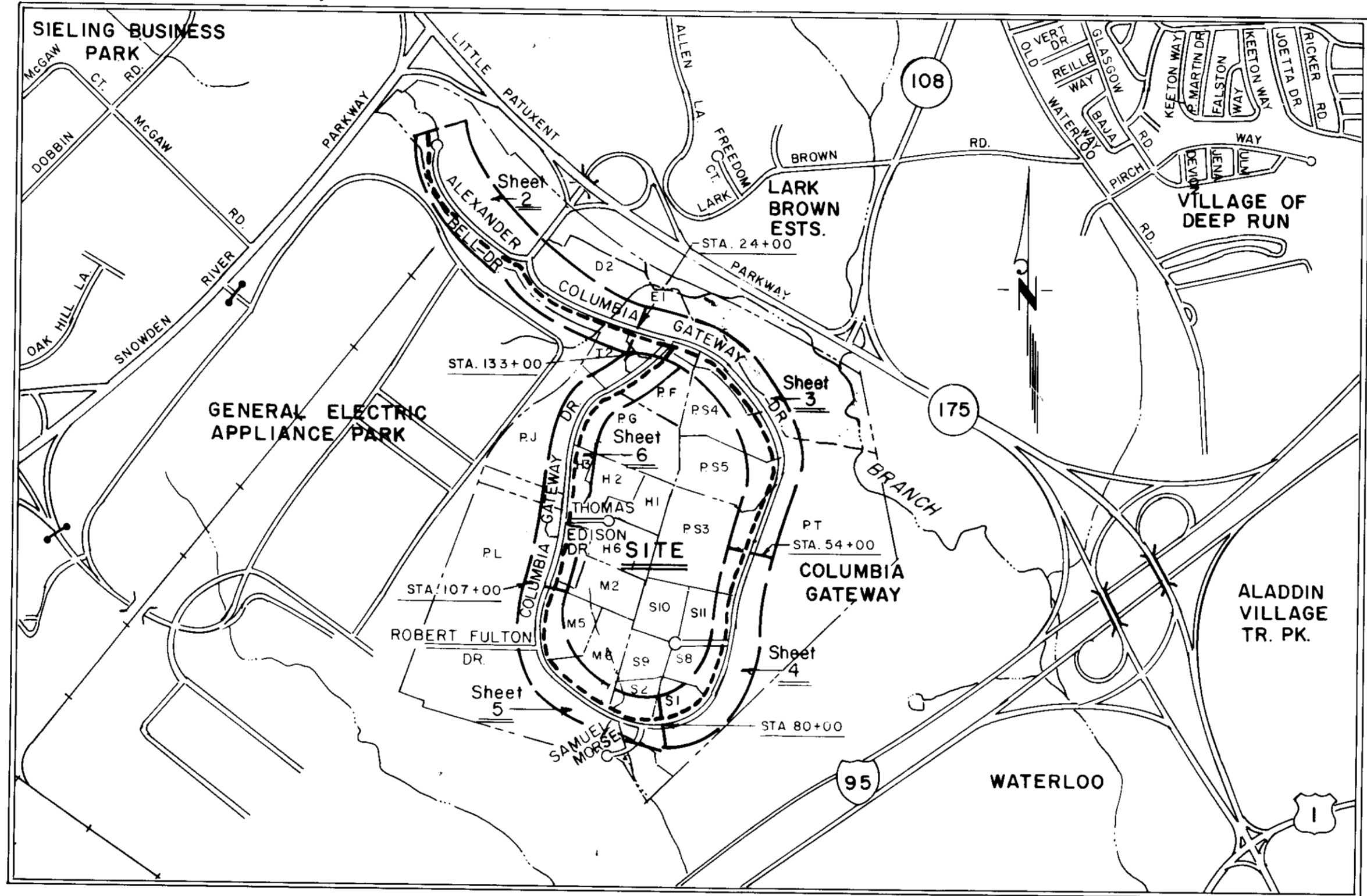


COLUMBIA ASSOCIATION

SITE DEVELOPMENT PLAN

GATEWAY CORPORATE PARK

HOWARD COUNTY, MARYLAND



LOCATION MAP SCALE: 1" = 1,000'

DEVELOPER: COLUMBIA PARK AND RECREATION ASSOCIATION
 5829 BANNEKER ROAD
 COLUMBIA, MARYLAND 21044

THESE PLANS ARE FOR PATHWAY CONSTRUCTION ONLY, IN ACCORDANCE WITH PROCEDURES AGREED TO BETWEEN COLUMBIA ASSOCIATION AND HOWARD COUNTY AGENCIES.

The **RBA** Group ENGINEERS • ARCHITECTS • PLANNERS
 5560 STERRETT PLACE, SUITE 300, COLUMBIA, MD. 21044 (410) 730-7950

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Conner M. In* 10/14/92
 Chief: *Shirley Anderson Calia* 10/9/92
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Director: *James Ross* 10/27/92
 Chief: *Anna Holmuth* 10/26/92
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 County Health Officer: *Joan Popper* 10-15-92

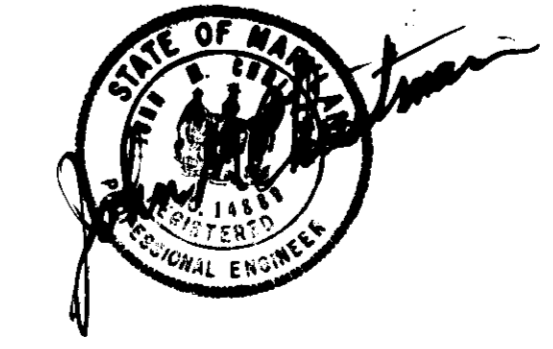
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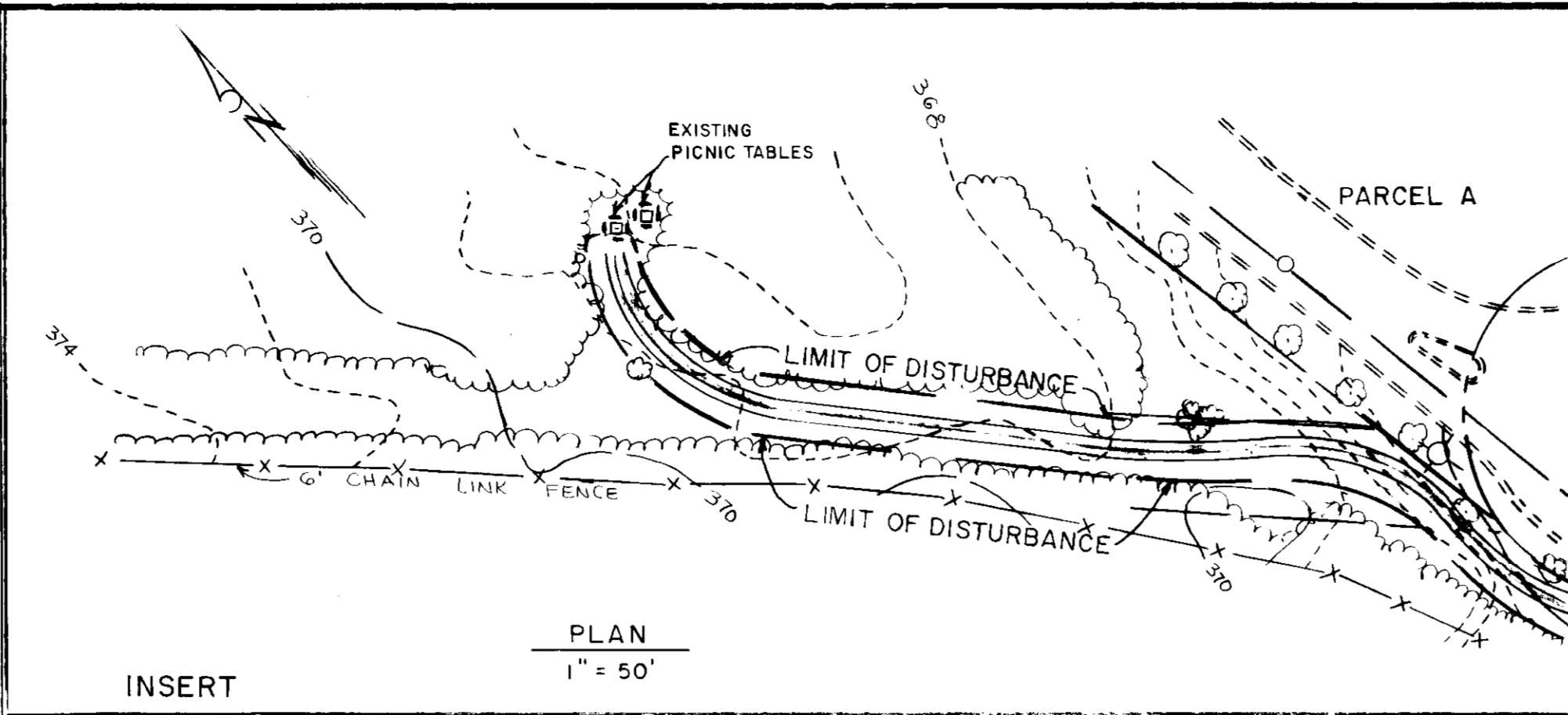
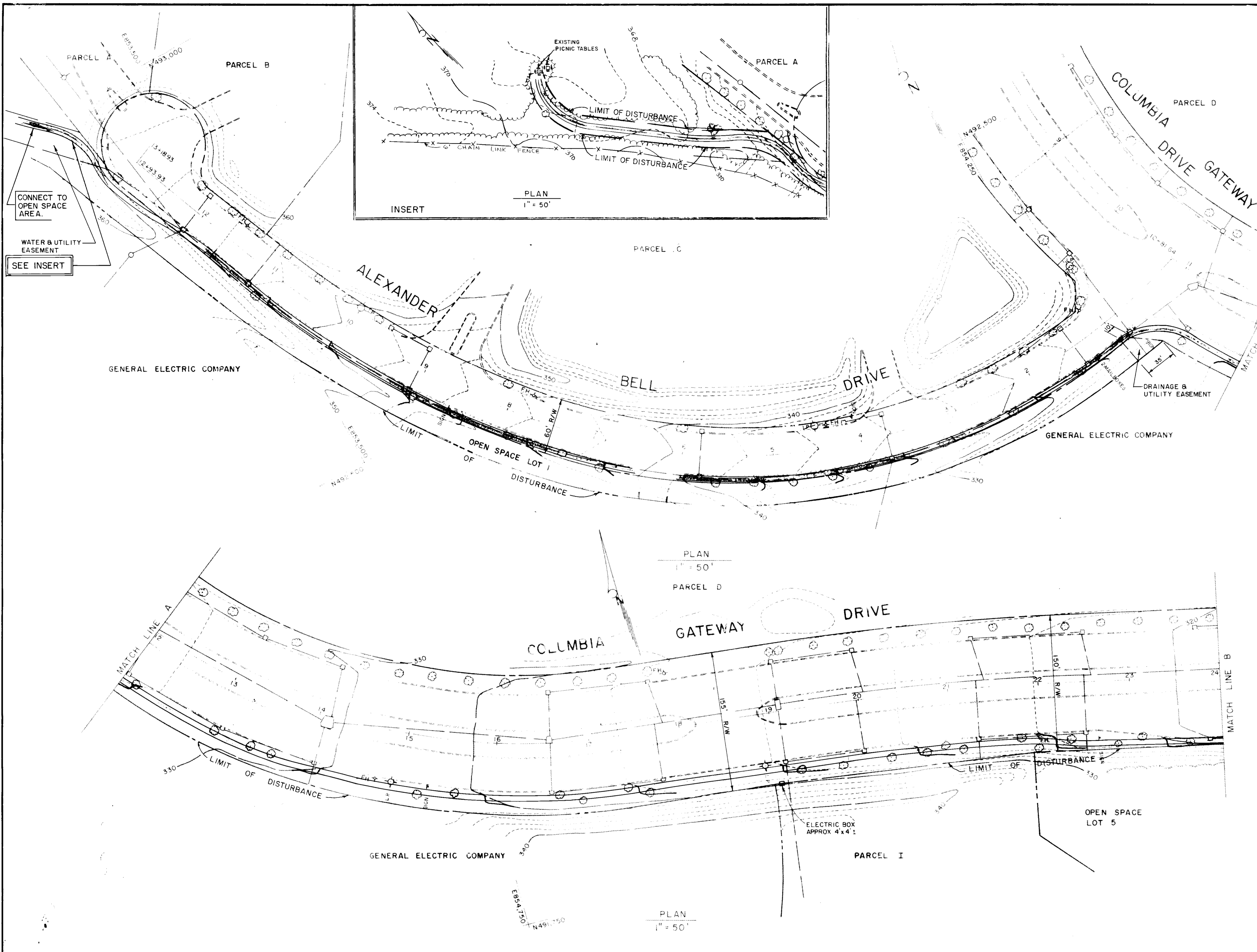
- COVER SHEET
- PLAN SHEET ALEXANDER BELL DR. STA. 0+00 - STA. 12+93.93 COLUMBIA GATEWAY DR. STA. 12+00 - STA. 24+00
- PLAN SHEET COLUMBIA GATEWAY DR. STA. 24+00 - STA. 54+00
- PLAN SHEET COLUMBIA GATEWAY DR. STA. 54+00 - STA. 80+00
- PLAN SHEET COLUMBIA GATEWAY DR. STA. 80+00 - STA. 107+00
- PLAN SHEET COLUMBIA GATEWAY DR. STA. 107+00 - STA. 133+00
- PROFILE SHEET ALEXANDER BELL DR. STA. 0+00 - STA. 12+93.93 COLUMBIA GATEWAY DR. STA. 12+00 - STA. 24+00
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- PROFILE SHEET COLUMBIA GATEWAY DR. STA. 107+00 - STA. 133+00
- DETAIL SHEET

LISTING OF LOT AND PLAT NUMBERS FOR PATH CONSTRUCTION
 OPEN SPACE LOT 8 3245/2514
 COLUMBIA GATEWAY DRIVE 1795/637
 " " " 1855/752
 " " " 2245/071
 ALEXANDER BELL DRIVE 1795/637

LEGEND

- 320 ——— EXISTING CONTOUR
- ——— EXISTING STORM DRAIN
- — — — — EXISTING CURB AND GUTTER
- ——— EXISTING TREE
- — — — — EXISTING RIGHT-OF-WAY LINE
- ⊙ ——— EXISTING STREET LIGHT POLE
- ⊙ ——— EXISTING SIGN
- ⊙ ——— EXISTING FIRE HYDRANT
- — — — — PROPOSED 6' PATHWAY





APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. Lan 10/26/92
 DIRECTOR DATE
Michael S. Pasa 10/26/92
 CHIEF, BUREAU OF ENGINEERING, P.A.K. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Joseph R. Smith 10/27/92
 DIRECTOR DATE
Shirley J. Howard 10/26/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John M. Christman 10-15-92
 COUNTY HEALTH OFFICER DATE

NOTE:
 1. SEE NOTE 2 GENERAL NOTES.

OWNER/DEVELOPER COLUMBIA PARK & RECREATION ASSOCIATION 5829 BANNEKER ROAD COLUMBIA, MD. 21044 (410) 730-3515			
ADDRESS CHART			
BUILDING	STREET ADDRESS		
PATHWAY	6701 COLUMBIA GATEWAY DRIVE		
SUBDIVISION NAME GATEWAY		SECTION/AREA	LOT/PARCEL N/A
PLAT NO. 1	BLOCK 19	ZONE MH	TAX/ZONE MAP 36-27-42 B-23
ELEC DIST 6		CENSUS TR 6067.03	
WATER CODE N/A		SEWER CODE N/A	

RESPONSIBLE PERSONNEL CERTIFICATION
 "I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
Frederick M. Pagan, Vicker 4/6/92
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW)

CERTIFICATION BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
John M. Christman 4/6/92
 SIGNATURE OF ENGINEER DATE
 JOHN M. CHRISTMAN, P.E.

CERTIFICATION BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY."
Frederick M. Pagan, Vicker 4/6/92
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *John P. Deaton* 4/12/92
 HOWARD S.C.D. DATE
 REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 APPROVED: *John M. Christman* 4/12/92
 HOWARD S.C.D. DATE

revisions

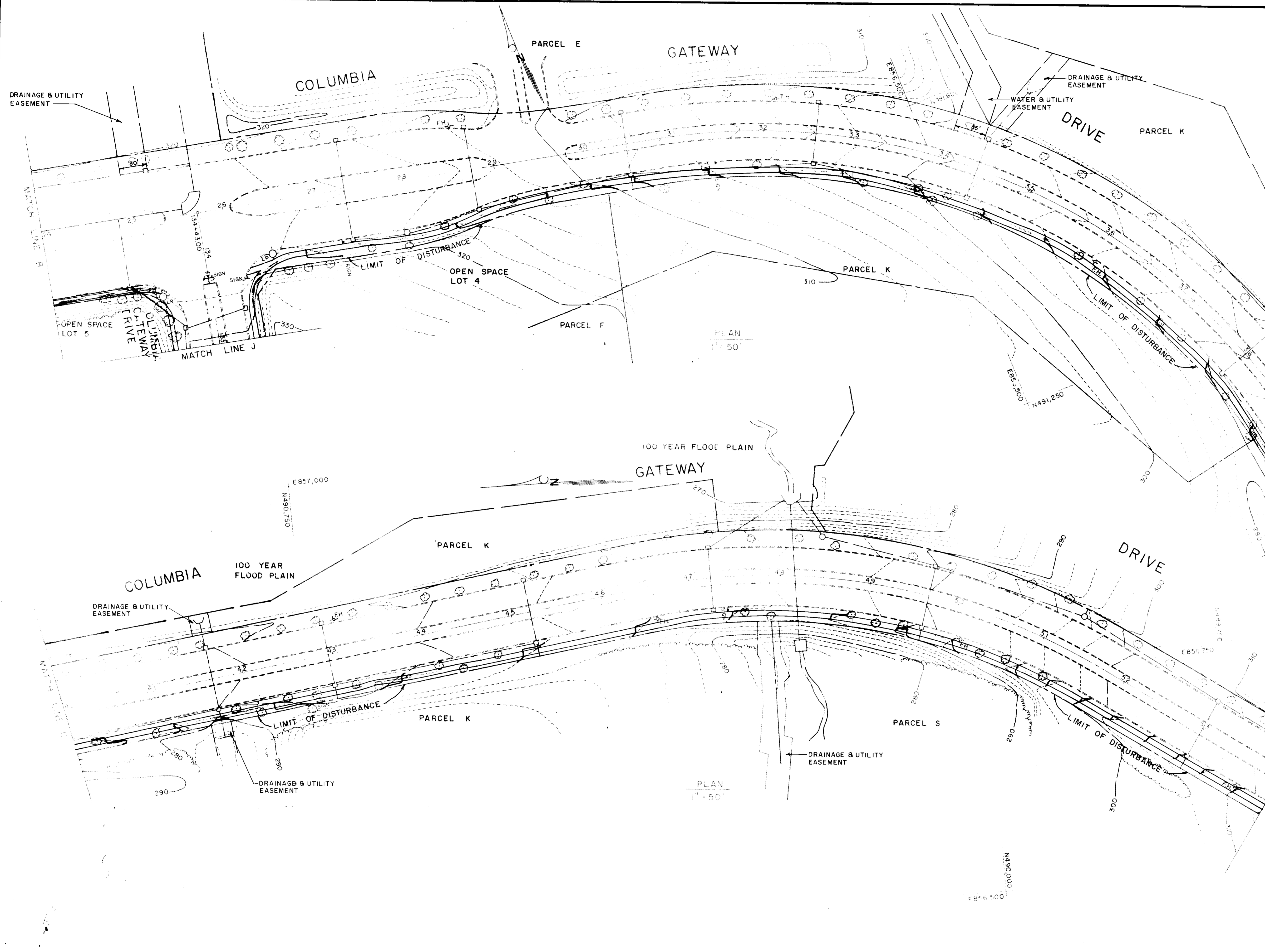
no.	description	date

prepared by
THE RBA GROUP
 ENGINEERS • ARCHITECTS • PLANNERS
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND 21044
 301 / 730-7950 621-6050

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 JOHN M. CHRISTMAN, P.E.
 MD. NO. 14883

PLAN SHEET
GATEWAY CORPORATE PARK
 PATHWAY CONSTRUCTION PLANS
 6th ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

SCALE 1" = 50'	
DRAWN JMM	CHECKED JMC
PROJ. NO. M0302	DATE
2	12
SHEET	OF



APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROAD.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 Director: *James M. Kelly* DATE: 10/19/92
 Chief: *Stephen J. Kelly* DATE: 10/19/92
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *James M. Kelly* DATE: 10/22/92
 Chief: *Stanna Holzman* DATE: 10/22/92
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 County Health Officer: *Joseph A. Bollen* DATE: 10-15-92

100 YEAR FLOOD PLAIN

NOTE:
 1. SEE NOTE 2 GENERAL NOTES.

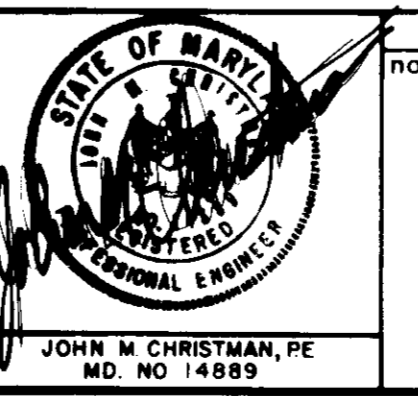
OWNER/DEVELOPER		
COLUMBIA PARK & RECREATION ASSOCIATION 5829 BANNEKER ROAD COLUMBIA, MD. 21044 (410) 730-3515		
ADDRESS CHART		
BUILDING	STREET ADDRESS	
PATHWAY	6701 COLUMBIA GATEWAY DRIVE	
SUBDIVISION NAME		
GATEWAY		
SECTION/AREA	LOT/PARCEL	
N/A	N/A	
PLAT	BLOCK	ZONE
19	M-1	36, 27, 42
SEE SHEET NO.	ELEC DIST	CENSUS TR
6	6	6067.03
WATER CODE		SEWER CODE
N/A		N/A

RESPONSIBLE PERSONNEL CERTIFICATION
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Frederick M. Payne, Vice Pres. 4/6/92
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW)

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John N. Christman 4/6/92
 SIGNATURE OF ENGINEER DATE
 JOHN N. CHRISTMAN, P.E.
 (PRINT NAME BELOW)

CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.
Frederick M. Payne, Vice Pres. 4/6/92
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 APPROVED: *John B. Robertson* 4/12/92
 HOWARD S.C.D. DATE
 REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 APPROVED: *John M. Kelly* 6/1/92
 SOIL CONSERVATION SERVICE DATE

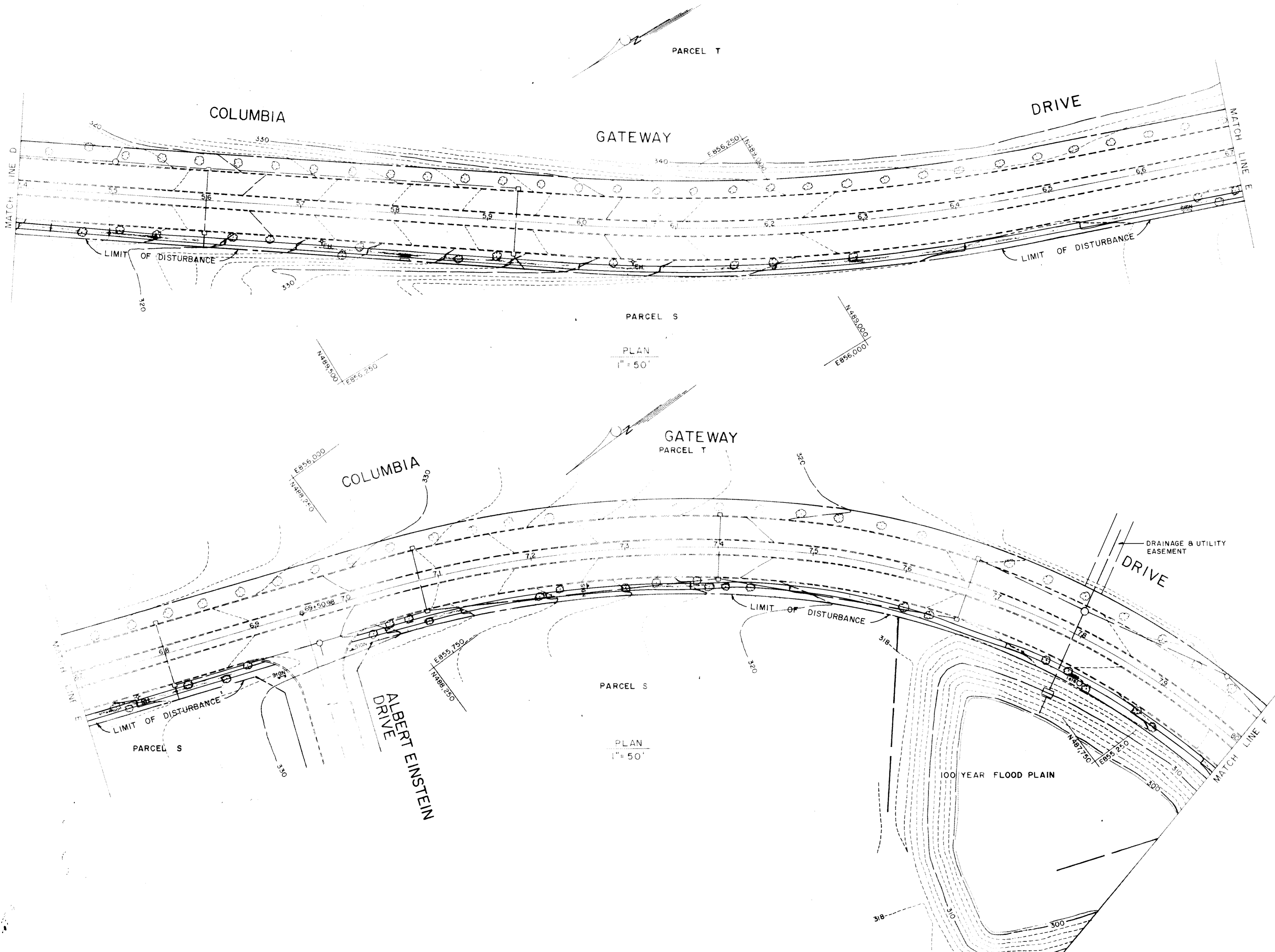


no.	description	date

prepared by
RBA ENGINEERS + ARCHITECTS + PLANNERS
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND 21044
 301 / 730-7950 621-6050

PLAN SHEET
GATEWAY CORPORATE PARK
 PATHWAY CONSTRUCTION PLANS
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE	1" = 50'	
DRAWN	JMM	CHECKED JMC
PROJ. NO.	MO302	DATE
3	12	OF
SHEET		



APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. ... 10/15/92
DIRECTOR DATE

Shirley R. ... 10/19/92
CHIEF, BUREAU OF ENGINEERING M.K. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James ... 10/27/92
DIRECTOR DATE

Anna ... 10/26/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT SA DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

Jose ... 10-15-92
COUNTY HEALTH OFFICER DATE

NOTE:
1. SEE NOTE 2 GENERAL NOTES.

OWNER/DEVELOPER COLUMBIA PARK & RECREATION ASSOCIATION 5829 BANNEKER ROAD COLUMBIA, MD. 21044 (410) 730-3515		
ADDRESS CHART		
BUILDING	STREET ADDRESS	
PATHWAY	6701 COLUMBIA GATEWAY DRIVE	
SUBDIVISION NAME		
GATEWAY		
SECTION/AREA	LOT / PARCEL	
	N/A	
PLAT NO.	BLOCK	ZONE
SEE SHEET NO.	19	M-1
	36, 27, 42	843
	6	6067.03
WATER CODE	SEWER CODE	
N/A	N/A	

RESPONSIBLE PERSONNEL CERTIFICATION I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. <i>Fredrick M. Lopez, Vice Pres.</i> 4/6/92 SIGNATURE OF DEVELOPER DATE (PRINT NAME BELOW)	CERTIFICATION BY THE ENGINEER I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. <i>John M. Christman</i> 4/6/92 SIGNATURE OF ENGINEER DATE JOHN M. CHRISTMAN, P.E.	CERTIFICATION BY THE DEVELOPER I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY. <i>Fredrick M. Lopez, Vice Pres.</i> 4/6/92 SIGNATURE OF DEVELOPER DATE (PRINT NAME BELOW)	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED: <i>John M. Christman</i> 4/6/92 HOWARD S.C.D. DATE REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. APPROVED: <i>John M. Christman</i> 5/12/92 SOIL CONSERVATION SERVICE DATE		prepared by 5860 STERRETT PLACE, SUITE 300 COLUMBIA, MARYLAND 21044 301 / 730-7950 621-6050	PLAN SHEET GATEWAY CORPORATE PARK PATHWAY CONSTRUCTION PLANS 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 50' DRAWN JMM PROJ. NO. M0302 4 SHEET OF 12
					revisions no. description date		

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Stettin 10/6/92
DIRECTOR DATE

John M. Christman 10/9/92
CHIEF, BUREAU OF ENGINEERING, P.L.C. DATE

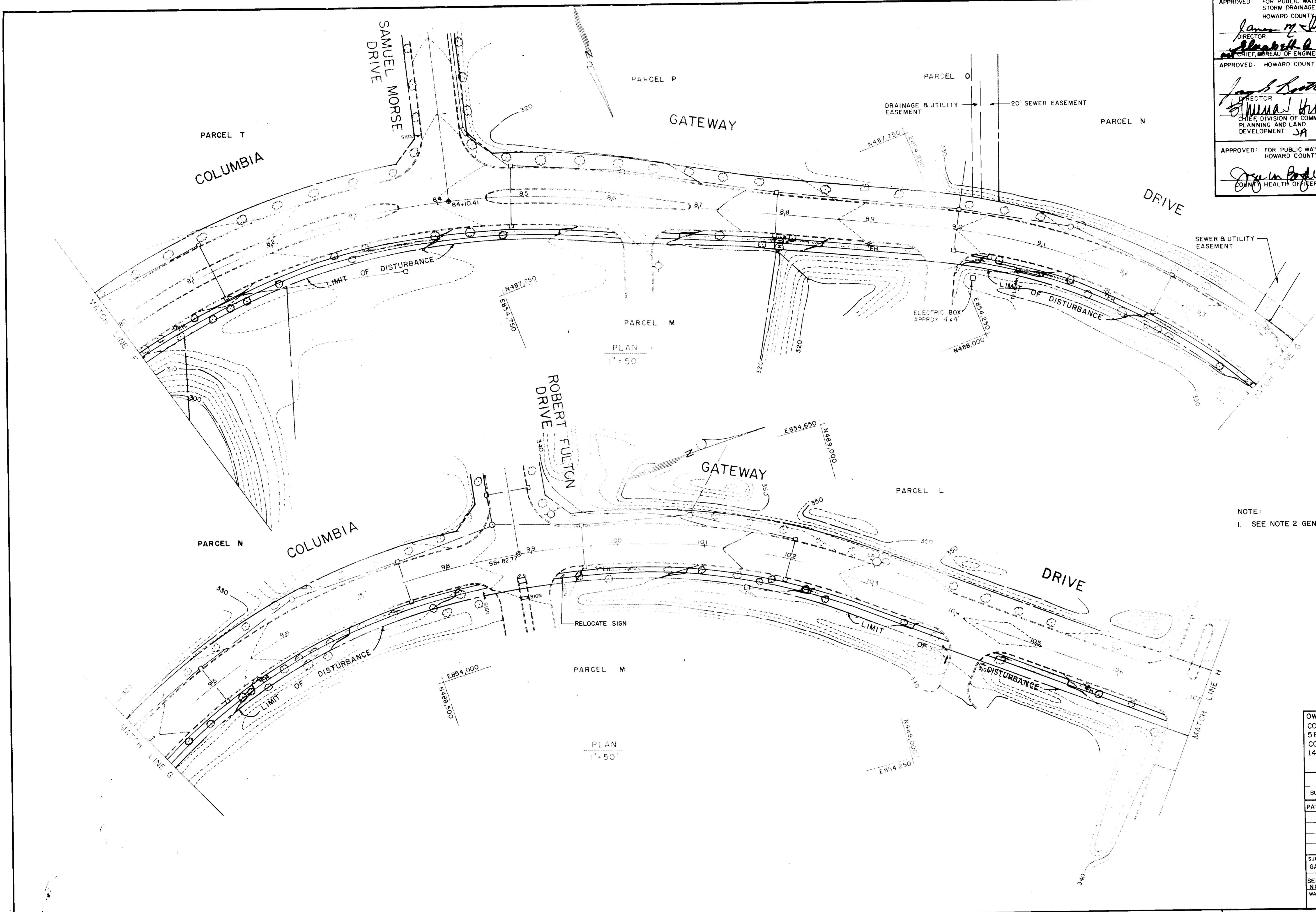
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James B. Smith 10/27/92
DIRECTOR DATE

Shirley K. Homan 10/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT, SA DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

James M. Stettin 10/15/92
COUNTY HEALTH OFFICER DATE



NOTE:
1. SEE NOTE 2 GENERAL NOTES.

OWNER / DEVELOPER
COLUMBIA PARK & RECREATION ASSOCIATION
5829 BANNEKER ROAD
COLUMBIA, MD 21044
(410) 730-3515

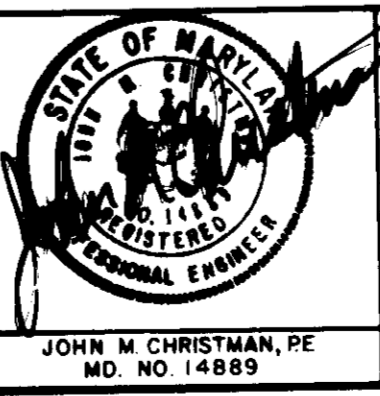
ADDRESS CHART	
BUILDING	STREET ADDRESS
PATHWAY	6701 COLUMBIA GATEWAY DRIVE
SUBDIVISION NAME	SECTION/AREA
GATEWAY	N/A
SEE SHEET NO. 1	SEE SHEET NO. 2
19	18
WATER CODE	SEWER CODE
N/A	N/A

RESPONSIBLE PERSONNEL CERTIFICATION
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Frederick M. Ryan, Vice Pres 4/6/92
SIGNATURE OF DEVELOPER DATE
(PRINT NAME BELOW)

CERTIFICATION BY THE ENGINEER
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
John M. Christman 4/6/92
SIGNATURE OF ENGINEER DATE
(PRINT NAME BELOW)
JOHN M. CHRISTMAN, P.E.

CERTIFICATION BY THE DEVELOPER
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Frederick M. Ryan, Vice Pres 4/6/92
SIGNATURE OF DEVELOPER DATE
(PRINT NAME BELOW)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: *John M. Christman* 8/12/92
DATE
HOWARD S.C.D.
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
APPROVED: *James M. Stettin* 8/12/92
DATE
SOIL CONSERVATION SERVICE



no.	description	date

prepared by
RBA ENGINEERS • ARCHITECTS • PLANNERS
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND 21044
301 / 730-7950 621-6050

PLAN SHEET		SCALE 1" = 50'	
GATEWAY CORPORATE PARK			
PATHWAY CONSTRUCTION PLANS			
6th ELECTION DISTRICT			
DRAWN JMM		CHECKED JMC	
PROJ. NO. MO302		DATE	
5 SHEET		12 OF	
HOWARD COUNTY, MARYLAND			

SDP-92-97

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. [Signature] 10/6/92
DIRECTOR DATE

[Signature] 10/9/92
CHIEF BUREAU OF ENGINEERING M.K. DATE

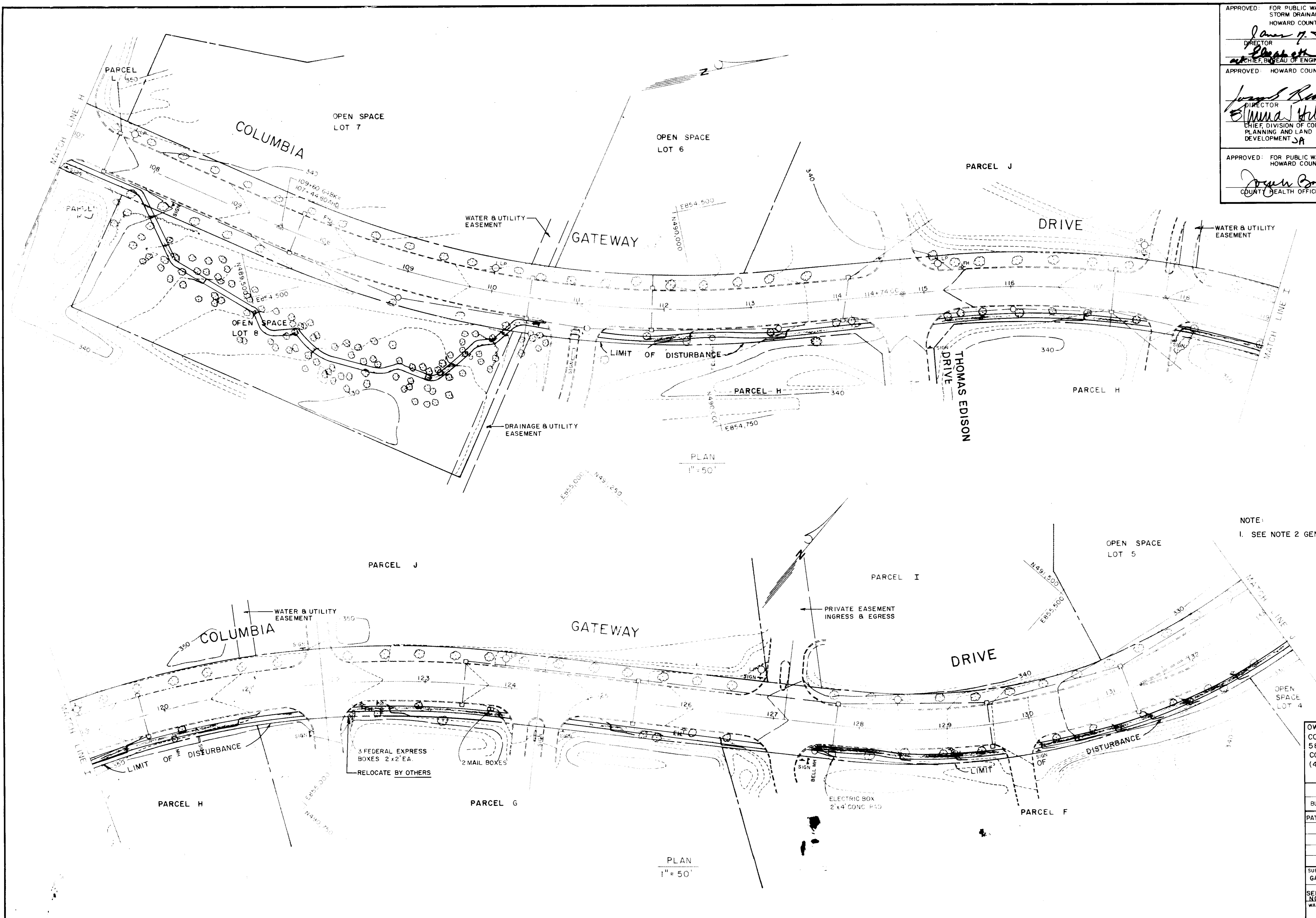
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James B. [Signature] 10/27/92
DIRECTOR DATE

[Signature] 10/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT JA DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10-10-92
COUNTY HEALTH OFFICER DATE

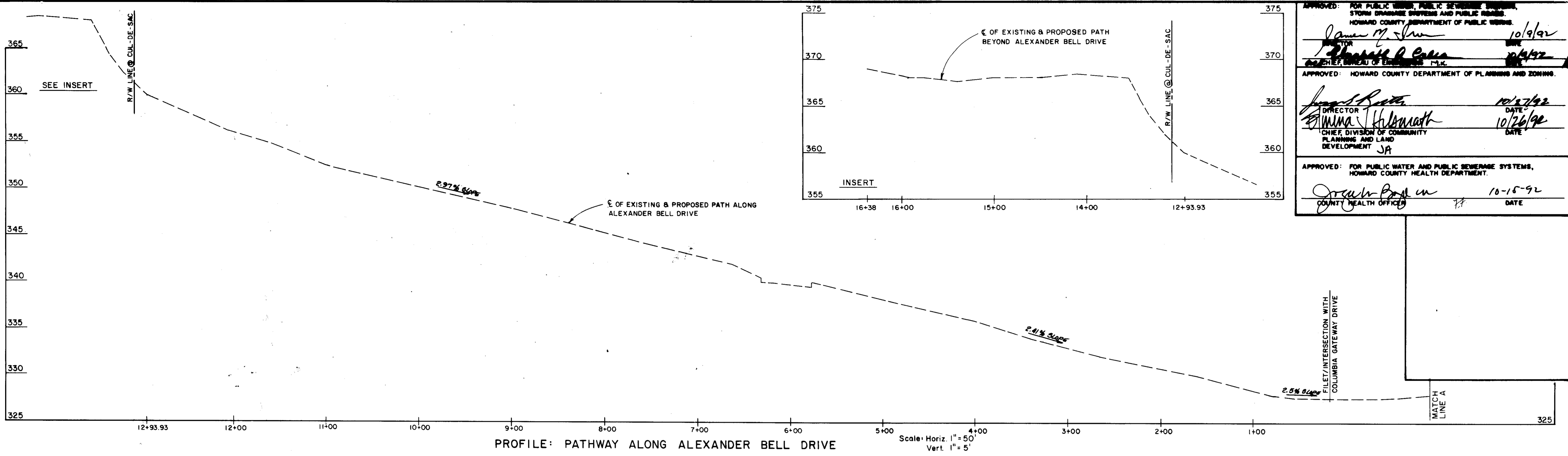


NOTE:
I. SEE NOTE 2 GENERAL NOTES.

OWNER/DEVELOPER
COLUMBIA PARK & RECREATION ASSOCIATION
5829 BANNEKER ROAD
COLUMBIA, MD. 21044
(410) 730-3515

ADDRESS CHART	
BUILDING	STREET ADDRESS
PATHWAY 6701 COLUMBIA GATEWAY DRIVE	
SUBDIVISION NAME	SECTION/AREA
GATEWAY	N/A
PLAT NO.	BLOCK ZONE TAX ZONE MAP/ELEC DIST CENSUS TR
SEE SHEET 19	M-1 36 27.42 6 6067.03
WATER CODE	SEWER CODE
N/A	N/A

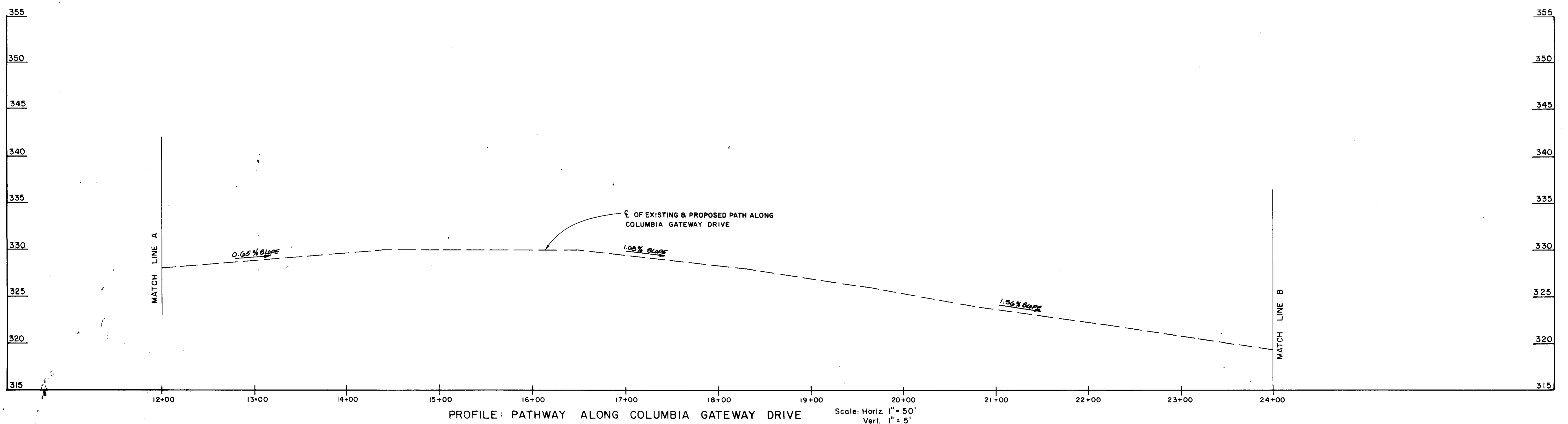
RESPONSIBLE PERSONNEL CERTIFICATION "I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." <i>[Signature]</i> 4/6/92 SIGNATURE OF DEVELOPER DATE (PRINT NAME BELOW)	CERTIFICATION BY THE ENGINEER "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." <i>[Signature]</i> 4/6/92 SIGNATURE OF ENGINEER DATE JOHN M. CHRISTMAN, P.E.	CERTIFICATION BY THE DEVELOPER "I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY." <i>[Signature]</i> 4/6/92 SIGNATURE OF DEVELOPER DATE (PRINT NAME BELOW)	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: <i>[Signature]</i> 9/12/92 HOWARD S.C.D. DATE REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. APPROVED: <i>[Signature]</i> 9/12/92 S. SOIL CONSERVATION SERVICE DATE	<table border="1"> <tr> <th colspan="2">revisions</th> </tr> <tr> <th>no.</th> <th>description</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	revisions		no.	description					prepared by RBA ENGINEERS • ARCHITECTS • PLANNERS 5580 STERRETT PLACE, SUITE 300 COLUMBIA, MARYLAND 21044 301 / 730-7950 621-6050	PLAN SHEET GATEWAY CORPORATE PARK PATHWAY CONSTRUCTION PLANS 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 50' <table border="1"> <tr> <td>DRAWN</td> <td>CHECKED</td> </tr> <tr> <td>JMM</td> <td>JMC</td> </tr> <tr> <td>PROJ. NO.</td> <td>DATE</td> </tr> <tr> <td>MO302</td> <td> </td> </tr> <tr> <td>6</td> <td>12</td> </tr> <tr> <td>SHEET</td> <td>OF</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DRAWN	CHECKED	JMM	JMC	PROJ. NO.	DATE	MO302		6	12	SHEET	OF		
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HOWARD COUNTY, MARYLAND SHEET 6 OF 12 OF SDR 92-97																													



APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC UTILITIES.
 HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES.
James M. Shaw 10/9/92
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
James M. Shaw 10/27/92
 DIRECTOR DATE
Simma Halimath 10/26/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph P. ... 10-15-92
 COUNTY HEALTH OFFICER DATE



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			RBA ENGINEERS • ARCHITECTS • PLANNERS 5660 STERRETT PLACE, SUITE 300 COLUMBIA, MARYLAND 21044 381 / 730-7960 621-6050	GATEWAY CORPORATE PARK PATHWAY CONSTRUCTION PLANS 6th ELECTION DISTRICT		7	12
				HOWARD COUNTY	MARYLAND	SHEET	OF

EDP-92-97

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
 STORM DRAINAGE SYSTEMS AND PUBLIC RIGHTS,
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

James R. Shaw 10/9/92
 DIRECTOR DATE

Michael A. Palko 10/9/92
 ASST. CHIEF, BUREAU OF ENGINEERING M.K. DATE

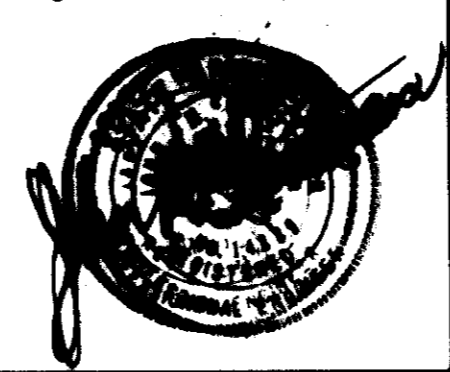
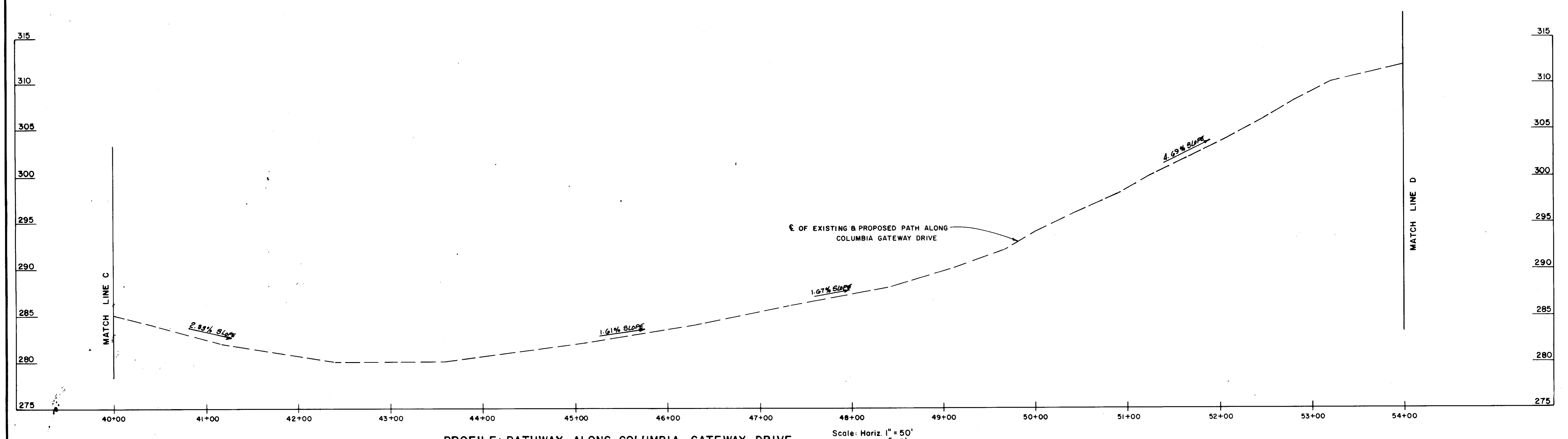
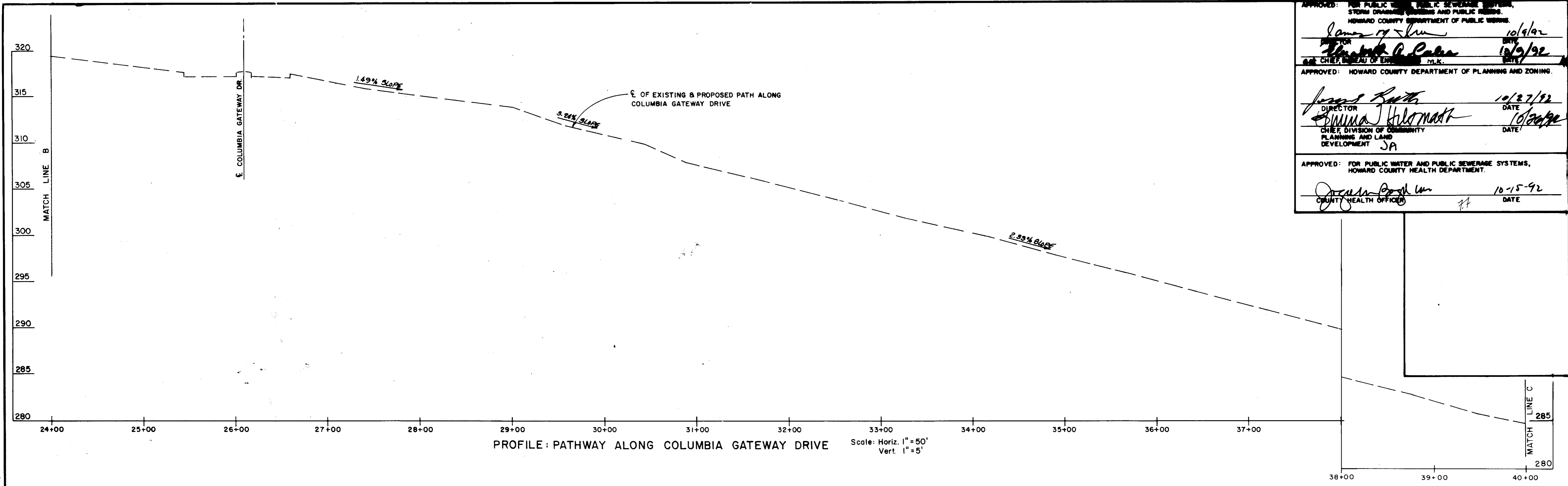
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Kates 10/27/92
 DIRECTOR DATE

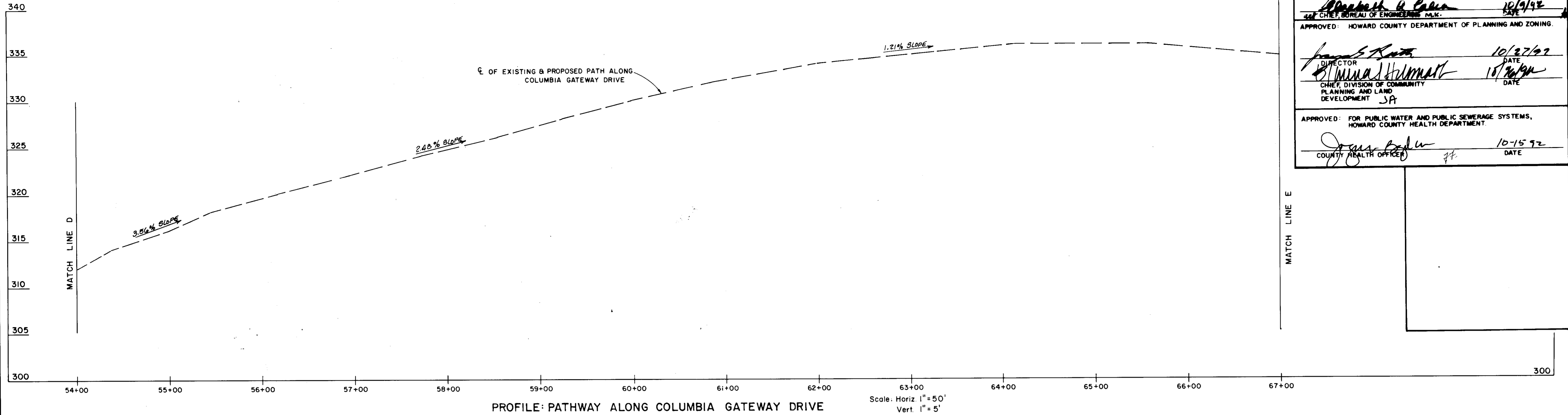
William J. Helomath 10/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT SA DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.

Joseph A. Boughner 10-15-92
 COUNTY HEALTH OFFICER # # DATE



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				6th ELECTION DISTRICT HOWARD COUNTY MARYLAND	MO302		
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STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

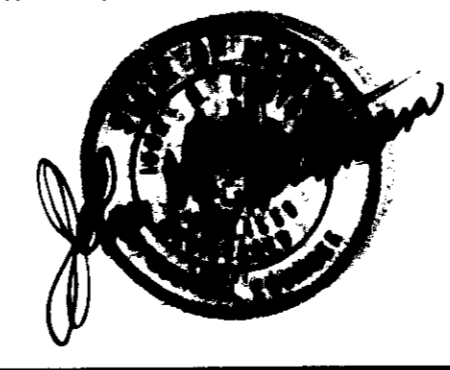
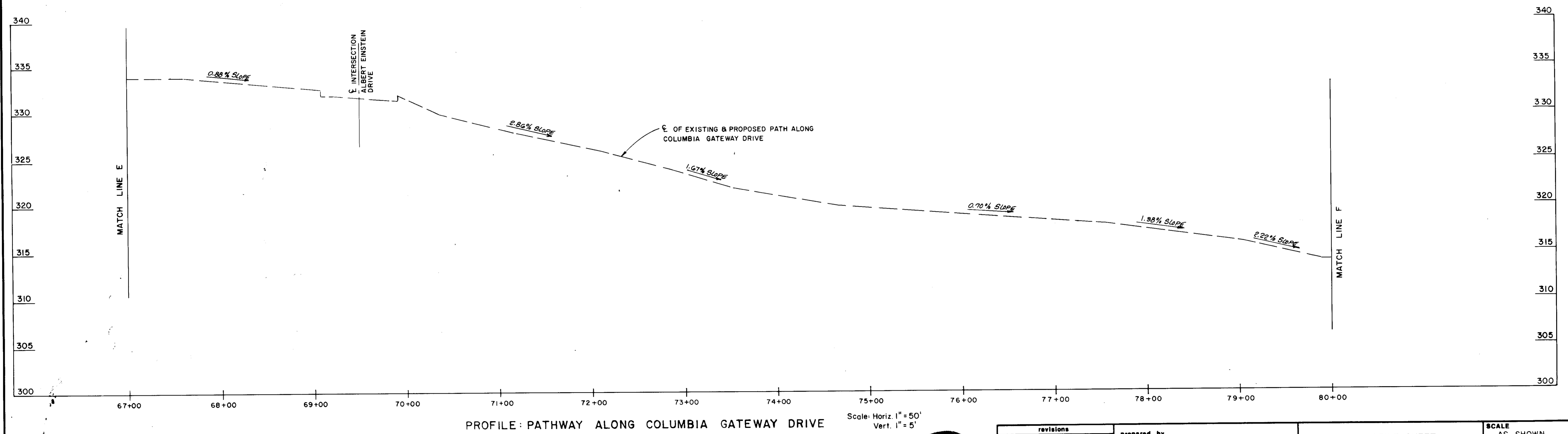
DIRECTOR: *[Signature]* DATE: 10/9/92
CHIEF, BUREAU OF ENGINEERING, P.L.K.: *[Signature]* DATE: 10/9/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *[Signature]* DATE: 10/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 10/26/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER: *[Signature]* DATE: 10-15-92



revisions		date
no.	description	

prepared by
RBA ENGINEERS - ARCHITECTS - PLANNERS
5580 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND 21044
301 / 730-7950 621-6050

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PROFILE SHEET
GATEWAY CORPORATE PARK
PATHWAY CONSTRUCTION PLANS
6th ELECTION DISTRICT
HOWARD COUNTY MARYLAND

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. ... 10/19/92
DIRECTOR DATE

Shirley R. ... 10/19/92
CHIEF, BUREAU OF ENGINEERING P.M. DATE

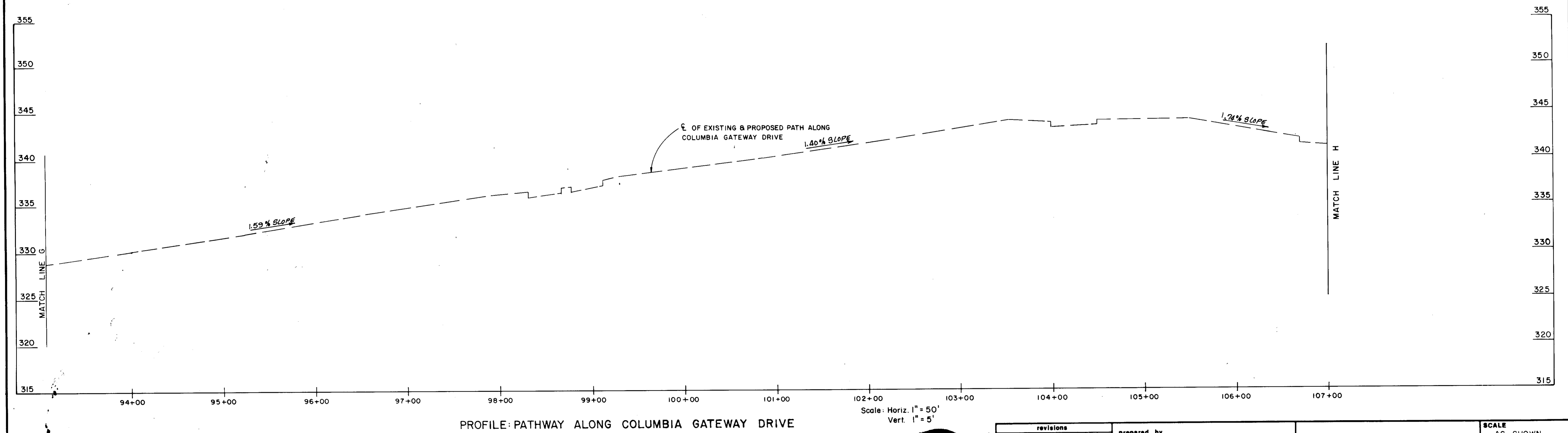
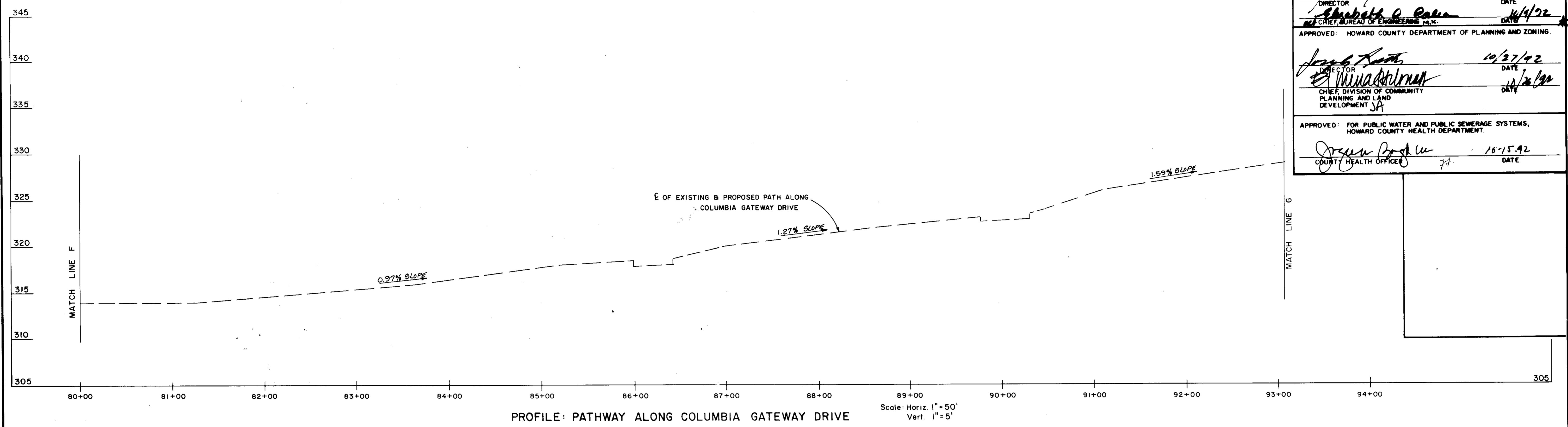
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James ... 10/27/92
DIRECTOR DATE

Michael ... 10/26/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

James ... 10-15-92
COUNTY HEALTH OFFICER DATE

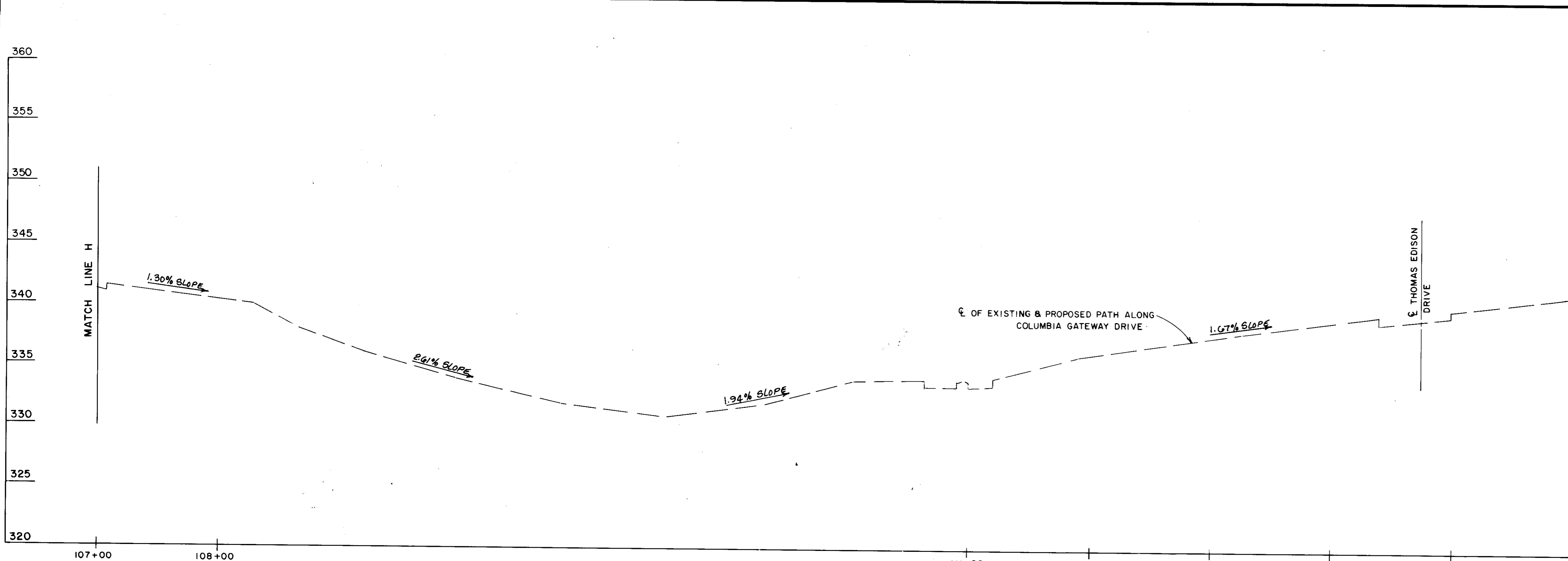


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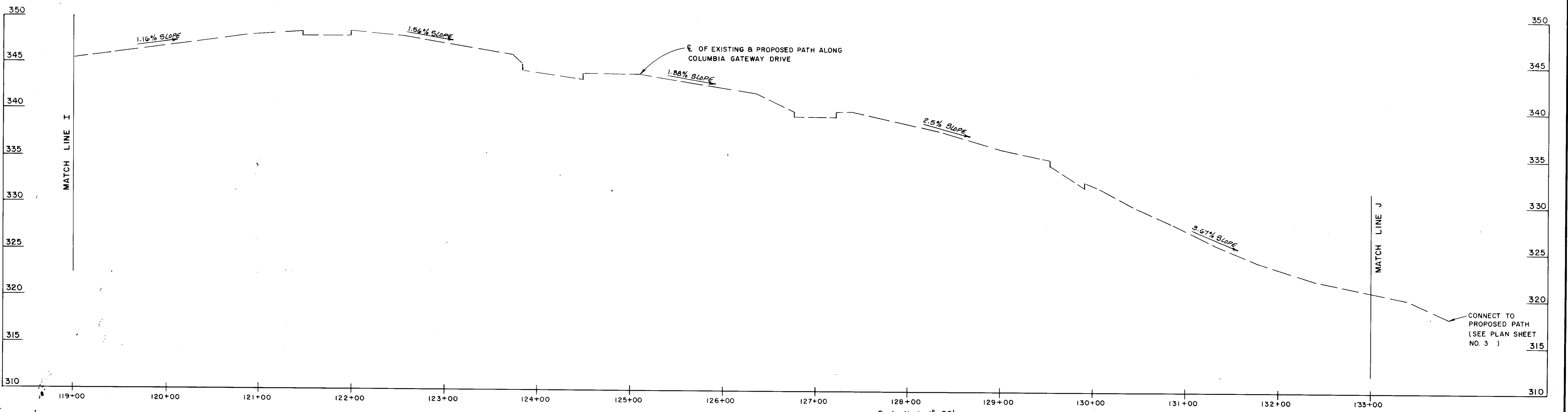
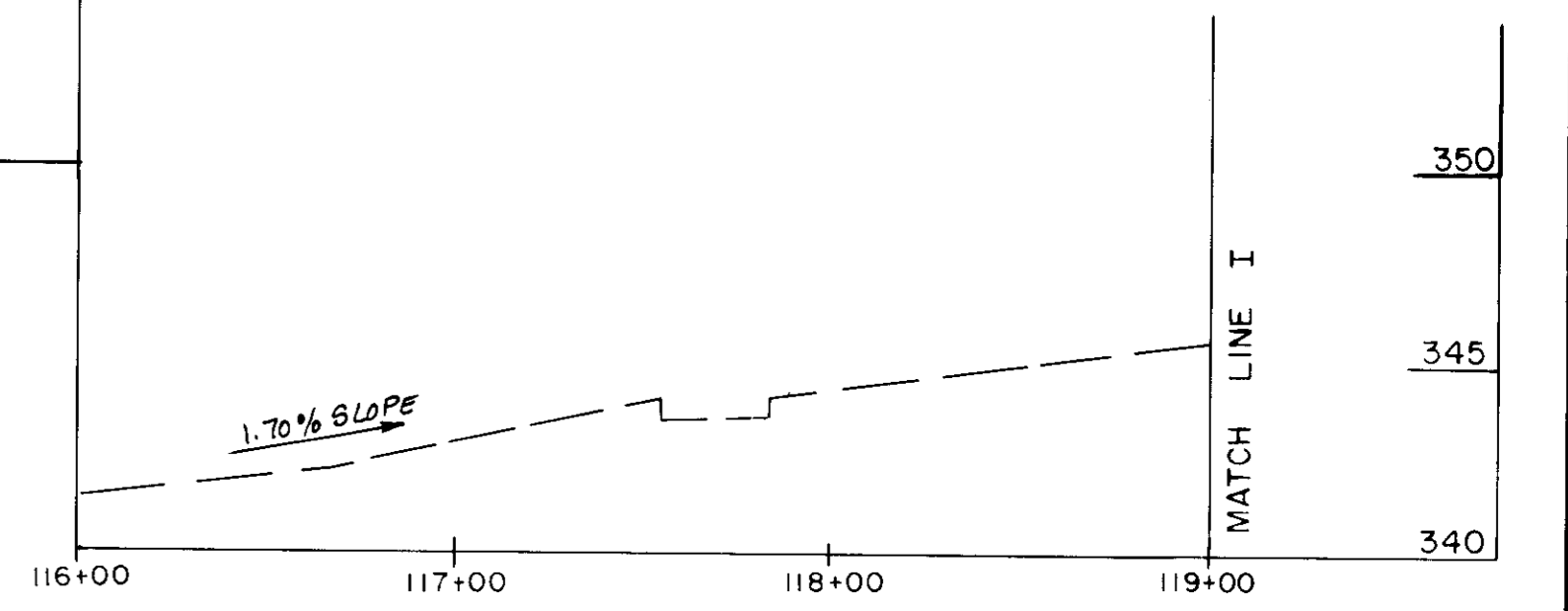
PROFILE SHEET

GATEWAY CORPORATE PARK
PATHWAY CONSTRUCTION PLANS
6th ELECTION DISTRICT

HOWARD COUNTY MARYLAND



PROFILE: PATHWAY ALONG COLUMBIA GATEWAY DRIVE Scale: Horiz. 1" = 50' Vert. 1" = 5'



PROFILE: PATHWAY ALONG COLUMBIA GATEWAY DRIVE Scale: Horiz. 1" = 50' Vert. 1" = 5'

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Sklar 10/19/92
DIRECTOR DATE

Shepherd A. Wilson 10/19/92
CHIEF, BUREAU OF ENGINEERING, P.L.C. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James B. Jones 10/27/92
DIRECTOR DATE

Annua J. Hurmat 10/26/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

James B. Jones 10-11-92
COUNTY HEALTH OFFICER DATE



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SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS TO THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: A) SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND B) FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT STABILIZATION (SEC. 51), SOO (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.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL "FOR THE STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP. 82.01 OR 82.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- ANY DISTURBED EARTH LEFT IDLE FOR PERIODS EXCEEDING 30 DAYS SHALL BE STABILIZED ACCORDING TO TEMPORARY STABILIZATION SPECIFICATIONS.
- AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK.
- THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.
- AT THIS TIME, WE BELIEVE THAT SECTIONS 404 OR 401 OF THE CLEAN WATER ACT DO NOT AFFECT OUR SITE.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

SITE TABULATIONS

PROPOSED PATHWAY - 13,400 L.F.
 TOTAL DISTURBED AREA - 13,400 L.F. x 10 L.F. = 134,000 SQ. FT. OR 3.08 ACRES
 TOTAL CUT - 1,654 C.Y. TOTAL FILL - 1,654 C.Y.
 AREA TO BE STABILIZED - 54,000 SQ. FT.
 PAVED AREA - 80,400 SF.
 OFFSITE WASTE BORROW LOCATION - N/A

TEMPORARY AND PERMANENT SEEDING NOTES

TEMPORARY SEEDING NOTES: APPLY TO GRADED OR CLEARED AREAS WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDING PREPARED BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.)

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/100 SQ. FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVERGRASS (.07 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES: APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

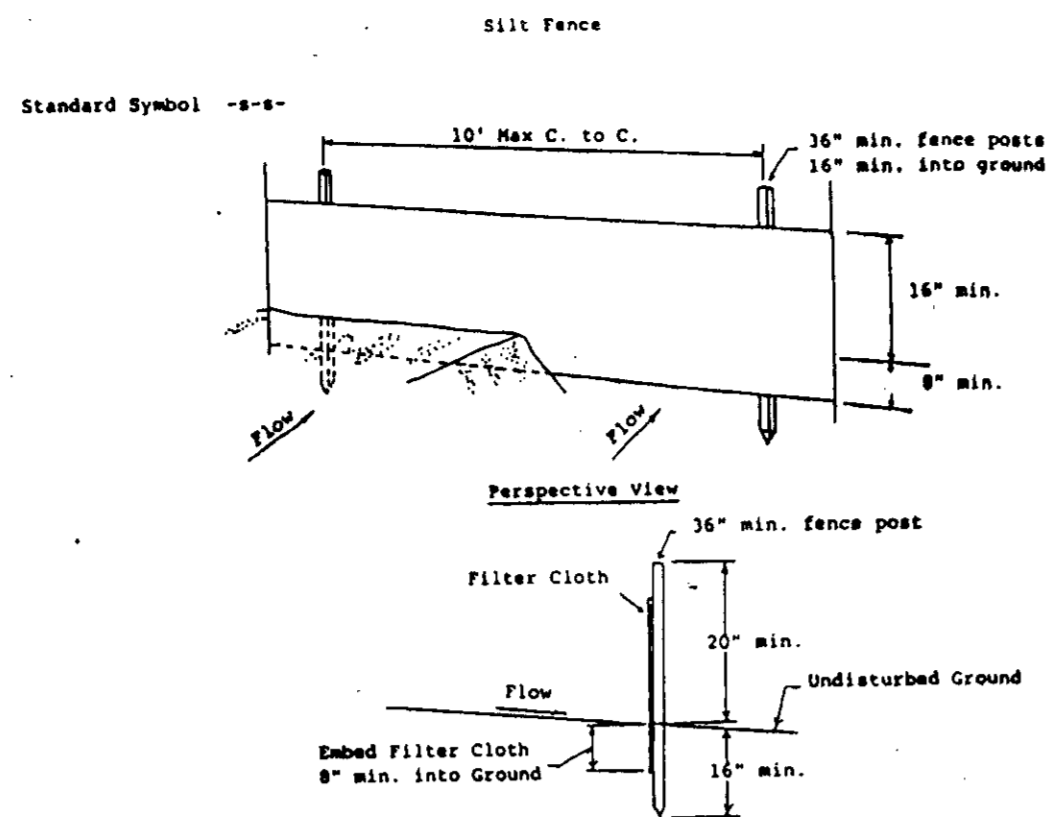
SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES.

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LB. PER ACRE 10-0-0 UREA/FORM FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 90 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVERGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

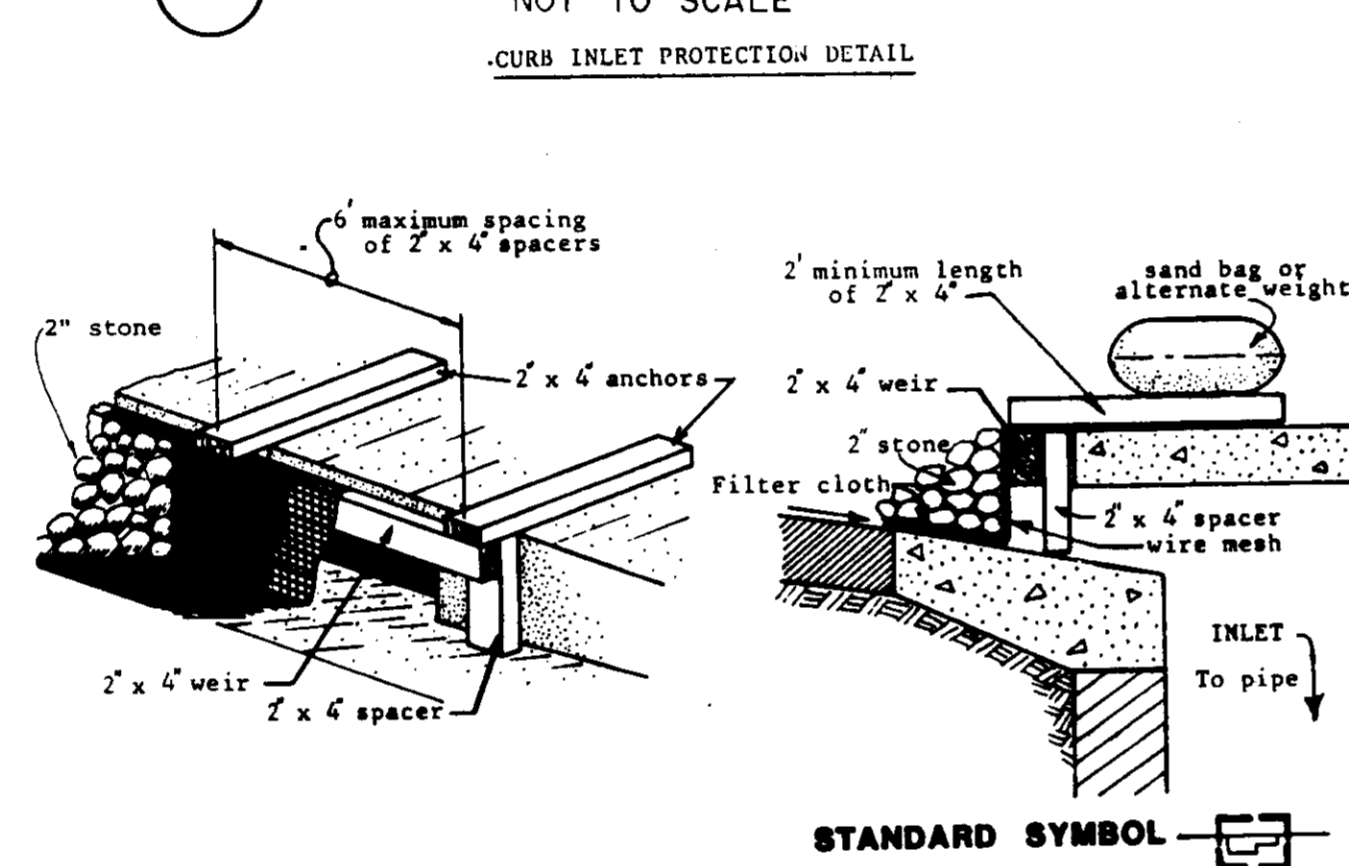
MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS.



Silt Fence Construction Specifications

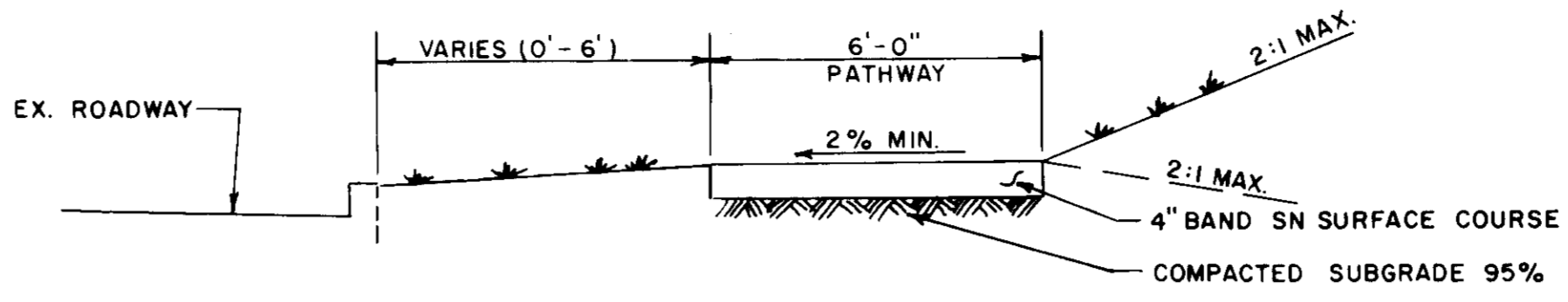
- Silt fences must be embedded, or keyed in, at least 8 inches into the ground. Laying the lower edge of the filter fabric on the ground and covering it with soil is not an acceptable method of keying in. The key-in trench can be excavated by hand or by ditching equipment. After the silt fence is constructed, the trench must be backfilled and compacted.
- Fence posts must be:
 - at least 36 inches long, and
 - have a cross sectional area of at least 1 square inch if wooden, or
 - weigh at least 1 pound per linear foot if steel T or U type, and
 - on 10 foot maximum centers, and
 - driven at least 16 inches into the ground.
- The filter fabric must be fastened securely to the fence posts.
- When two sections of filter fabric are joined together, the joint must occur at a fence post. The ends of the filter fabric should be overlapped by at least 6 inches, folded, and fastened to the fence post so that no gaps in the fence occur. Manufacturer's recommendations for joining fabric sections may be followed as long as the resulting joint does not create gaps in the silt fence.
- Silt fences must be inspected periodically and after each rain event and maintenance performed as necessary.

1 SILT FENCE DETAIL NOT TO SCALE



2 CURB INLET PROTECTION DETAIL NOT TO SCALE

- Materials**
 - Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, 60S, 40-85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, since fines would clog the cloth.
- Curb Inlet Protection.**
 - Attach a continuous piece of wire mesh (30" min. 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 piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' 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 wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - 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 inlet by installing temporary earth or asphalt dikes directing flow into inlet.



PATHWAY TYPICAL SECTION NOT TO SCALE

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS.
- NOTIFY INSPECTIONS, LICENSES AND PERMITS AT LEAST 48 HOURS BEFORE ANY WORK BEGINS.
- CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES ONLY. 2 DAYS
- SEDIMENT CONTROL MEASURES SHALL BE PLACED AS CLEARING AND GRUBBING PROGRESSES. 1 DAY
- INSTALL SILT FENCE ALONG THE PATH SECTION TO BE CONSTRUCTED. PLACE ON THE DOWNHILL SIDE OF THE PROPOSED PATH IN ACCORDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION DISTRICT, DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. 2 DAYS
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION UPON COMPLETION OF SAID INSTALLATION.
- ALL PROPOSED PATHWAY LOCATIONS SHALL BE FIELD STAKED AND APPROVED BY THE PROJECT ENGINEER. 3 DAYS
- WITH THE APPROVAL OF HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AREAS FOR PATHWAY CONSTRUCTION. 3 DAYS
- GRADE AREAS FOR PATHWAY CONSTRUCTION AS CLOSE TO EXISTING GRADES AS POSSIBLE. CROSS SLOPES SHALL REFLECT EXISTING TOPOGRAPHIC CONDITIONS. 7 DAYS
- MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL STRUCTURES. NO SLOPES SHALL EXCEED 3:1 SLOPE. STABILIZE ROUGH GRADED AREAS PER SPECIFICATIONS LISTED. 2 DAYS
- STABILIZE ALL DISTURBED AREAS IMMEDIATELY FOLLOWING INITIAL SOIL DISTURBANCE AND WITHIN 14 DAYS.
- INSTALL BASE COURSE AND BITUMINOUS ASPHALT AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE FLOW. PERMANENTLY STABILIZE ALL DISTURBED AREAS ON EITHER SIDE OF PATHWAYS. 10 DAYS
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION CONTROL DEVICES AND STABILIZE THOSE AREAS. 1 DAY

AGREEMENT between the COLUMBIA ASSOCIATION (CA) and the HOWARD SOIL CONSERVATION DISTRICT (HSCD)

The intent of this agreement is: (1) to establish a procedure for approval of certain minor earth disturbing activities associated with the installation of recreation pathways and (2) to allow CA to exercise on-site discretion regarding erosion and sediment control measures for such activities in lieu of obtaining prior approval of a detailed erosion and sediment control plan.

This agreement applies only to those activities specified herein. Any other earth disturbing activities, not within the scope of this agreement, shall be covered by a detailed erosion and sediment control plan, approved by HSCD prior to beginning such activities.

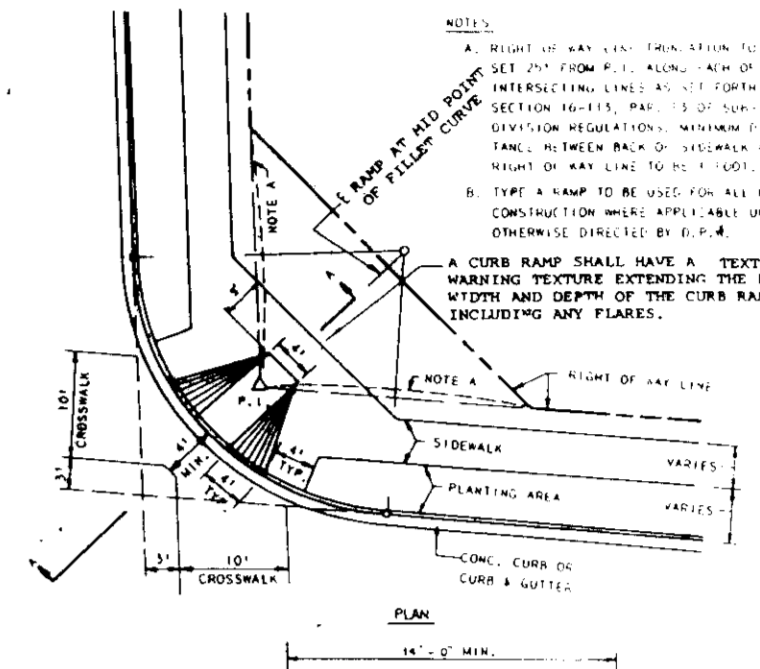
This agreement shall not be construed as a waiver of the requirement to provide effective erosion and sediment control on any type of earth disturbing activity. Its only purpose is to simplify the procedure for complying with the erosion and sediment control requirements on work of a minor (as defined herein) nature.

General Terms

- This agreement shall remain in effect, on an annually renewable basis, from date herein; or until terminated by either party upon written notice by the other party.
- Nothing in this agreement, either expressed or implied shall be interpreted to relieve CA of the responsibility to meet any and all terms or conditions set forth in the following regulations:
 - The Maryland Code, Natural Resources, Article 8, Subtitle 11-Sediment Control
 - The Howard County Code, Subtitle 4, Sections 3.400 through 3.404, except with respect to the procedure specified herein.
- This agreement does not constitute a Permit. Any required permits must be from appropriate authorities.
- CA shall designate an official with appropriate authority, to assume responsibility for implementation of this agreement, and who will serve as liaison agent with the Howard Soil Conservation District and the Howard County Sediment Control Division.
- The liaison agent shall be responsible for informing the appropriate agency in a timely manner, of any problems, changes or conditions that might reduce effectiveness of any proposed or existing erosion or sediment control measures.

Specific Terms

- All work performed under this agreement shall comply fully with the requirements of the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control and/or specific requirements which may be issued by HSCD.
- No work covered by this agreement shall be started until written approval of the HSCD has been received from HSCD.
- CA shall be responsible for arranging for immediate repair or replacement of existing erosion or sediment control measures which are removed, damaged, or rendered ineffective by work covered under this agreement.
- This agreement applies to earth disturbing activities necessary for the construction of recreational pathways which may be surfaced with bituminous paving, concrete, stone or mulch.
 - Earth work is limited to grubbing, cutting and filling (except as noted herein) necessary to construct pathways.
 - Fill must be properly compacted, fill height not to exceed three (3) feet, and be not steeper than 33 percent, (3:1).
 - Cut slopes may not exceed 2:1, 50 percent.
 - Grading may not impair surface drainage, create an erosion hazard or discharge sediment into any adjacent waterway.
 - Grading or filling within the 100-year flood plain is not permitted.
 - In cases where this condition cannot be met, CA must contact the HSCD for specific recommendations. (This may involve preparation of a custom plan by CA.)
- Sediment and erosion control measures will be performed as follows:
 - Sediment control measures shall be placed as clearing and grubbing progresses on a day to day basis.
 - Equipment entrances must be stabilized with stone to prevent tire tracking of sediment onto public streets. If tracking occurs, immediate cleanup is required.
 - Silt fences or straw bale dikes shall be used around graded areas to contain sediment.
 - Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) seven calendar days for the surface of all perimeter controls and all perimeter slopes; b) fourteen calendar days for all other disturbed or graded areas. Areas where active construction is in progress are exempt.
 - Upon completion of final grading all disturbed areas shall be stabilized with concrete, blacktop, stone, or vegetative cover. Areas to be vegetatively stabilized (seeded) shall be stabilized during the first seeding period (March 1 thru April 30, or August 1 thru October 15) following grading. Extension Service Bulletin No. 111 may be used as a guide for seeding.
 - All off-site fill or borrow areas must have an approved sediment control plan and permit prior to grading.
 - The applicant shall notify the Howard County Sediment Control Division at least 48 hours prior to commencing clearing or grading. Call 992-2437.
- Compliance with the provisions of the agreement shall not relieve CA of taking additional measures when necessary to prevent erosion and sedimentation. Additional requirements may be imposed by the Howard County Sediment Control Inspector assigned to the job, when deemed necessary to prevent erosion and sedimentation.



3 SIDEWALK RAMP DETAIL NOT TO SCALE

By Obtaining Approval of the following procedure for obtaining approval for CA recreational pathway construction under this agreement shall be as follows:

- CA is required to submit five (5) copies of a plan map showing the proposed location and alignment of pathways, along with a transmittal sheet identifying the request and signed by the responsible party.
- Upon receipt of the above information, the Howard Soil Conservation District will review it and notify the CA liaison agent or other individual specified by CA of any changes, additions, or corrections that are required. The liaison agent shall then provide HSCD with the requested information.
- After all changes, additions, or corrections have been made to the satisfaction of HSCD, an approved copy of the plan and transmittal will be forwarded to the liaison agent or other individual specified by CA.
- The approved copy shall serve as formal notification of approval and authorization to apply for any required permits.
- The above approval is subject to revocation or suspension by the HSCD whenever determination is made, and after notice is given, that the applicant is in violation of either Section 8, Subtitle 11 of the Natural Resources Law of Maryland as amended, Howard County Code Subtitle 4, and/or any rules and regulations promulgated under the above laws and/or the conditions specified by this agreement.

Signature of the Columbia Association representative: *Andrew M. Meyer* Date: 1/15/92
 Title: *President*
 Company Address: *Gateway Corporate Park, 6701 Columbia Gateway Drive, Columbia, MD 21044*
 Signature of the Howard Soil Conservation District representative: *Robert W. Zehn* Date: 3/10/92
 Title: *District Manager*

OWNER/DEVELOPER
 COLUMBIA PARK & RECREATION ASSOCIATION
 5829 BANNEKER ROAD
 COLUMBIA, MD. 21044
 (410) 730-3515

ADDRESS CHART	
BUILDING	STREET ADDRESS
PATHWAY	6701 COLUMBIA GATEWAY DRIVE

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
GATEWAY		N/A

PLAT NO.	BLOCK	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
19	M-1	25	42	6	6067.03

WATER CODE	SEWER CODE
N/A	N/A

RESPONSIBLE PERSONNEL CERTIFICATION
 I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
 Signature of Developer: *Andrew M. Meyer* Date: 4/6/92
 Signature of Engineer: *John M. Christman* Date: 4/6/92

CERTIFICATION BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Engineer: *John M. Christman* Date: 4/6/92

CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.
 Signature of Developer: *Andrew M. Meyer* Date: 4/6/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: *John A. Roberts* Date: 4/12/92
 Reviewed for Howard S.C.D. and Meets Technical Requirements: *John M. Christman* Date: 4/12/92
 Approved: *John M. Christman* Date: 4/12/92

no.	description	date

prepared by **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND 21044
 301 / 730-7950 621-6050

DETAIL SHEET		SCALE
GATEWAY CORPORATE PARK		AS SHOWN
PATHWAY CONSTRUCTION PLANS		DRAWN
6TH ELECTION DISTRICT		J.M.M.
HOWARD COUNTY,	MARYLAND	CHECKED
		J.M.C.
		DATE
		PROJ. NO.
		12
		SHEET
		12
		OF
		97