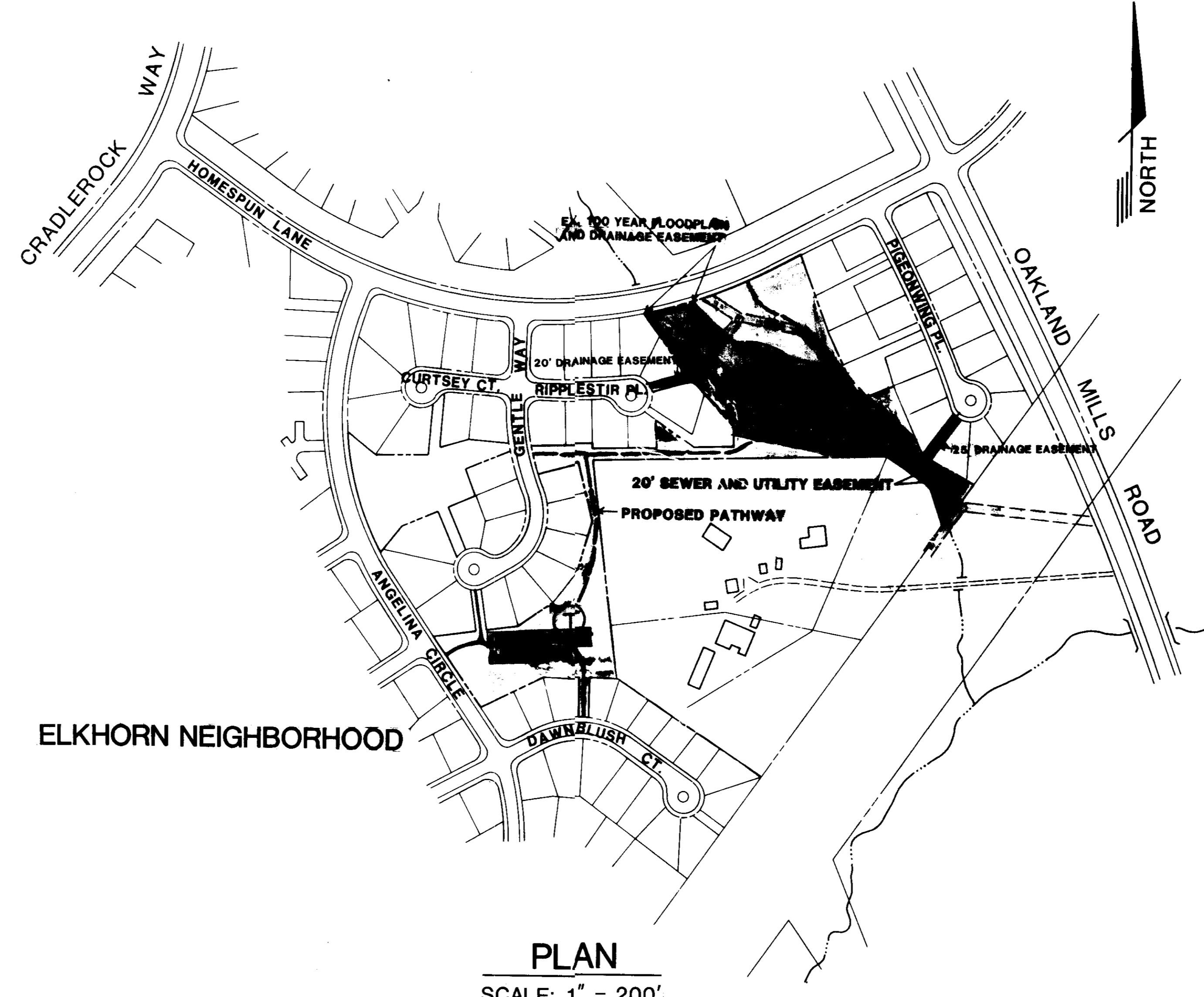


GENERAL NOTES

- TOPOGRAPHY SHOWN ON THIS DRAWING HAS BEEN TRACED FROM TOPOGRAPHIC SURVEYS AND MAPS PREPARED BY HOWARD COUNTY. 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 UNDAMAGED AT ALL TIMES.
- 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 CIVIL ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO SUCH ADJUSTMENTS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO 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.
- EXISTING UTILITIES ARE NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF 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 REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN THE LIMIT OF CONSTRUCTION ARE STABILIZED. AT THAT POINT, ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED UPON APPROVAL BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- THE MEASURES REQUIRED IN THE APPROVED SEDIMENT CONTROL PLAN SHALL APPLY AS IF SHOWN ON ALL PLANS.
- THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 992-2417 OR 992-2418.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND OR RIGHTS-OF-WAY 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 EASEMENT, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- PRIOR TO START OF ANY CONSTRUCTION, CONTRACTOR SHALL STAKEOUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) AND DIMENSIONS.
- CONTRACTOR SHALL USE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY CIVIL ENGINEER.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- ALL ELEVATIONS SHOWN ARE FINISH ELEVATIONS.
- THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS AND PERMITS APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE DEPARTMENT OF INSPECTIONS AND PERMITS SHALL BE REQUIRED ON 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 THE INITIAL APPROVAL BY THE DEPARTMENT OF INSPECTIONS AND PERMITS IS GIVEN.
- APPROVAL SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS.
- ANY DAMAGE TO COUNTY RIGHTS-OF-WAY AND PAVING OF PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND STANDARDS.
- ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE OF COMPACTION OF 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY ASTM D-698.
- ALL CONCRETE FOR SITE WORK SHALL BE CLASS 2 CONCRETE AND SHALL BE IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS AS AMENDED TO DATE.
- 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.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH PLANS APPROVED BY THE HOWARD COUNTY CONSERVATION DISTRICT.
- Waiver WP-91-87 concerning section 16.116(c) (6) of the Howard County Subdivision and Land Development Regulations, permitting disturbance of wetlands and streambank buffers was granted on July 10, 1991 by The Director of DPZ.
- "NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLAND OR STREAM BUFFERS EXCEPT AS APPROVED PER WAIVER PETITION, WP-91-117.
- APPLICABLE DEPARTMENT OF PLANNING AND ZONING FILES: PDP 146 A-1, PB 158 (PDP 146 A-1), SDP-84-243Z, P-84-150, SDP-76-19C, SDP-86-02C, SDP-76-46C, VP-75-02, SDP-78-30, VP-77-16, VP-74-83C, VP-77-77, VP-77-75, PDP 146 A, SDP-82-01, SDP-76-46C, SDP-83-162C, P-83-35, VP-83-43; PLAT NO. 3054A-638; 3054A-639.
- ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HOWARD COUNTY.
- On June 17, 1991 the Director of Public Works granted a waiver from Section 10.2.1 Design Manual, Volume 1 for this project. This waiver exempts this project from the County's stormwater management requirements.
- NO PATHWAY SHOWN ON THIS PROJECT WILL HAVE A SLOPE EXCEEDING 20%.
- Pathway sub-base to be compacted with a 6 ton vibratory roller making 4 passes.
- All existing and proposed pathways and improvements to be maintained by The Columbia Association.

# A PORTION OF THE VILLAGE OF OWEN BROWN OPEN SPACE MASTER PLAN COLUMBIA PARK AND RECREATION ASSOCIATION



PLAN  
SCALE: 1" = 200'

**GENERAL PLAN NOTE:**  
THESE PLANS WERE PREPARED FOR PATHWAY CONSTRUCTION ONLY. THESE PLANS WERE PREPARED FOR THE COLUMBIA PARK AND RECREATION ASSOCIATION. ALL SITE PLAN REQUIREMENTS WERE BASED ON PREVIOUS MEETINGS AND AGREEMENTS AS DOCUMENTED PER THE ENCLOSED CORRESPONDENCE. PLEASE CONTACT THE HOWARD COUNTY DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT FOR MODIFICATIONS TO THE STANDARD S.D.P. PROCESS FOR C.A.'S PATHWAYS.

James P. Ellis 3/27/92  
 By Don Lian 3-6-92  
 James P. Ellis 4/14/92  
 Emma J. Blomath 4/14/92  
 James M. Boydolph 4/3/92

AF  
 PLAN  
 of HO  
 DATE NOV. 12, 1991  
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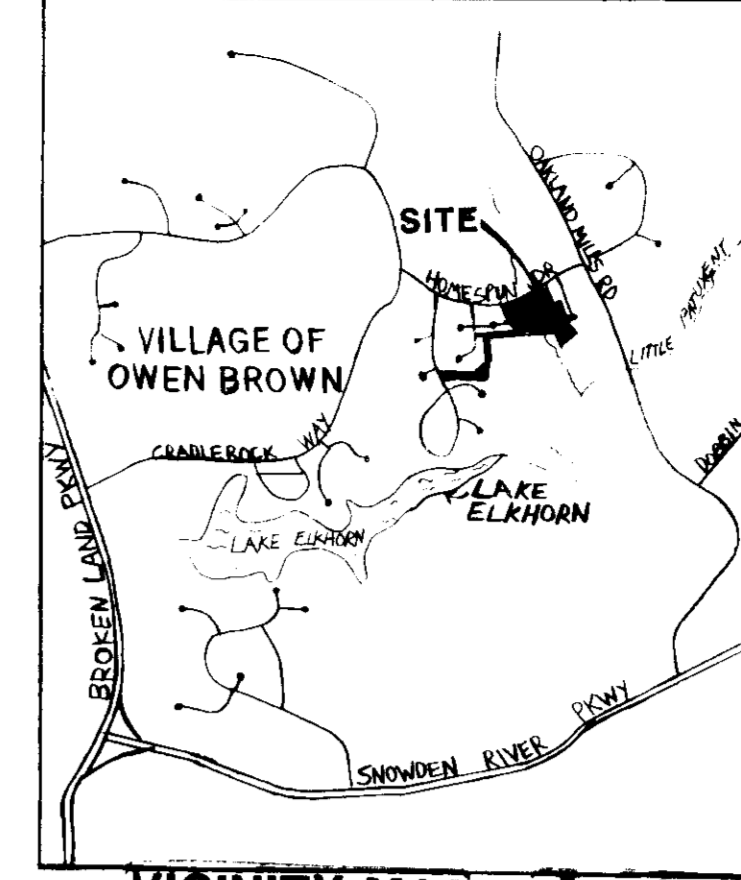
**SHEET INDEX**

- COVER SHEET
- OPEN SPACE PATHWAY LAYOUT
- SEDIMENT CONTROL & CONSTRUCTION DETAIL SHEET

<b>OWNER/DEVELOPER</b> COLUMBIA PARK & RECREATION ASSOCIATION 9861 BROKEN LAND PARKWAY SUITE 300 COLUMBIA, MD. 21046 PHONE: (301) 381-0020		
<b>ADDRESS CHART</b>		
BUILDING	STREET ADDRESS	
	9265 Homespun Lane	
<b>SUBDIVISION NAME: SECTION/AREA LOT</b> VILLAGE OF OWEN BROWN 4/1 522 BLOCK ZONE TAX ZONE MAP ELEC DIS PERMITS PB27.F COVER 22.8B 30 6 6067.02 WATER CODE N/A SEWER CODE N/A		

<p>RESPONSIBLE PERSONNEL CERTIFICATION                  I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL WHOSE NAME IS IN THE CONSTRUCTION PROJECT WILL HAVE PARTICIPATED IN ATTENDANCE FROM A 16 HOUR 2 DAY 2 DAY APPROVED TRAINING PROGRAM AND THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.</p> <p>Signature: Denis Ellis                  Date: 11/14/91</p>	<p>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.</p> <p>Signature: Vijay Balusu                  Date: 12-11-91</p>	<p>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 COUNTY CONSERVATION DISTRICT OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY.</p> <p>Signature: Denis Ellis                  Date: 11/19/91</p>	<p>THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.</p> <p>APPROVED: [Signature]                  DATE: 12/14/91</p> <p>REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.</p> <p>APPROVED: [Signature]                  DATE: 11/16/91</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	DATE				<p>PREPARED BY:  <b>KCI TECHNOLOGIES, INC.</b>                  ENGINEERS-PLANNERS-SURVEYORS                  13992 BALTIMORE AVENUE / SUITE 300                  LAUREL, MD. 20707                  PHONE: (301) 792-8086</p>	<p><b>COVER SHEET</b></p> <p>A PORTION OF  <b>VILLAGE OF OWEN BROWN                  OPEN SPACE MASTER PLAN</b></p> <p>SCALE: AS SHOWN</p> <p>DRAWN: BLJ                  PROJECT NO: 1087108                  SHEET: 1 OF 3</p>
NO.	DESCRIPTION	DATE										

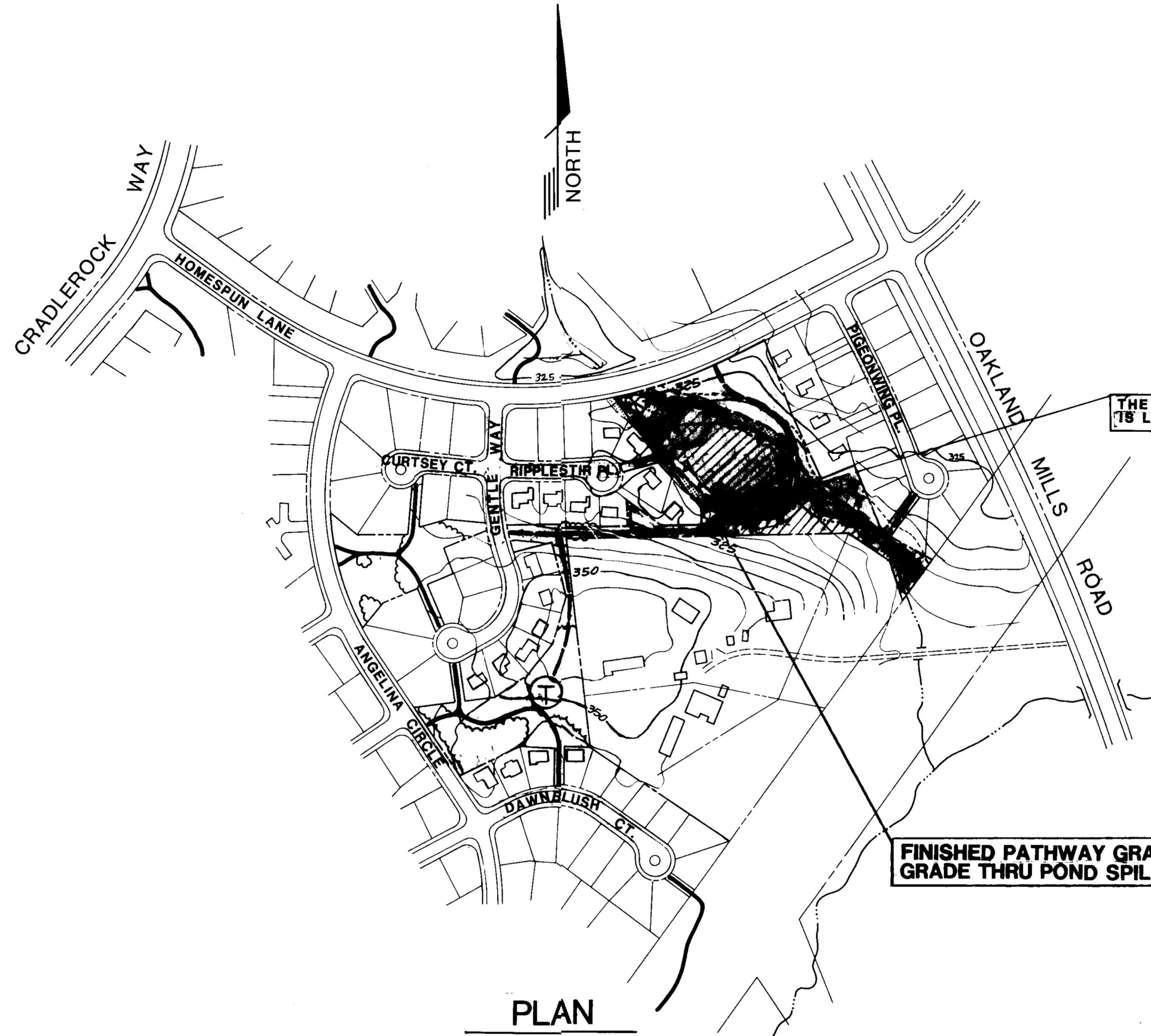
NOTE: A 10' WIDE CONSTRUCTION STRIP WILL BE USED FOR PATHWAY CONSTRUCTION. THE LIMIT OF DISTURBANCE WILL BE LIMITED TO 5' FROM THE PATHWAY CENTERLINE ON EITHER SIDE OF THE PATHWAY.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 4/3/92

APPROVED FOR PLANNING AND LAND DEVELOPMENT  
 HOWARD COUNTY DEPARTMENT OF PLANNING AND LAND DEVELOPMENT  
 DATE: 4/10/92

APPROVED FOR SOIL CONSERVATION SERVICE  
 DATE: 12/16/91



THE DISTURBANCE TO THE POND EMBANKMENT (DAM) IS LIMITED TO THE TOP 4 INCHES OF EXISTING GRADE.

FINISHED PATHWAY GRADE TO EQUAL EXISTING GRADE THRU POND SPILLWAY SECTION.

PLAN  
 SCALE: 1" = 200'

**LEGEND**

- PROPOSED 6.0 FT. PATHWAY
- EXISTING C.A. PATHWAY
- COLUMBIA ASSOCIATION OPEN SPACE
- EXISTING TREELINE (EDGE OF WOODS)
- PROPOSED TREELINE
- EXISTING CONTOUR
- LIMIT OF NON-TIDAL WETLANDS
- EXISTING TOT LOT, 25' WETLAND BUFFER, 75' STREAM BUFFER

OWNER/DEVELOPER COLUMBIA PARK & RECREATION ASSOCIATION 9861 BROKEN LAND PARKWAY SUITE 300 COLUMBIA, MD. 21046 PHONE: (301) 381-0020		
ADDRESS CHART BUILDING STREET APPOINTMENT 9265 Homespun Lane		
SUBDIVISION NAME: VILLAGE OF OWEN BROWN	SECTION/AREA: 4/1	LOT: 522
P.B. 27, 68-69	22, 85, 30	6 6067-7
WATER CODE: N/A	SEWER CODE: N/A	

NOTE: PATHWAY PAVING SHALL BE LOCATED A MINIMUM OF 30 FEET FROM STREAM/POND BANKS.

RESPONSIBLE PERSONNEL CERTIFICATION I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. Signature: Denis Ellis DATE: 11/19/91	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." Signature: Vijay Balusu DATE: 11/19/91	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 OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY." Signature: Denis Ellis DATE: 11/19/91	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: [Signature] DATE: 12/16/91 REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. APPROVED: [Signature] DATE: 12/16/91 U.S. SOIL CONSERVATION SERVICE	STATE OF MARYLAND PROFESSIONAL SEAL VIJAY BALUSU PE MD NO 8044	PREPARED BY: <b>KCI TECHNOLOGIES, INC.</b> ENGINEERS-PLANNERS-SURVEYORS 13992 BALTIMORE AVENUE / SUITE 300 LAUREL, MD 20707 PHONE: (301) 792-8086	<b>PLAN SHEET</b> SCALE: AS SHOWN DRAWN: BLW PROJ. NO: 1087108 SHEET 2 OF 3
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SEDIMENT AND EROSION CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (880-3450)
- 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 SEDIMENT TRAPS/BASIN SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 12 OF HOWARD COUNTY DESIGN MANUAL STORM DRAINAGE.
- 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 SEEDINGS (SEC. 31), SOO (SEC. 34), TEMPORARY SEEDING (SEC. 30), AND MULCHING (SEC. 32). 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.
- 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 DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES, 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.
- 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 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. 62.01 OR 62.07 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.
- 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.
- 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.

PERMANENT SEEDING NOTES

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

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

SOIL AMENDMENTS: 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 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LB. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) BEFORE SEEDING. HARBOR 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 60 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./100 SQ.FT.) OF WEEPING LOVEGRASS. 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 50 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNWITTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH 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 NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL 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 15 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 LOVEGRASS (.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 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNWITTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH 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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

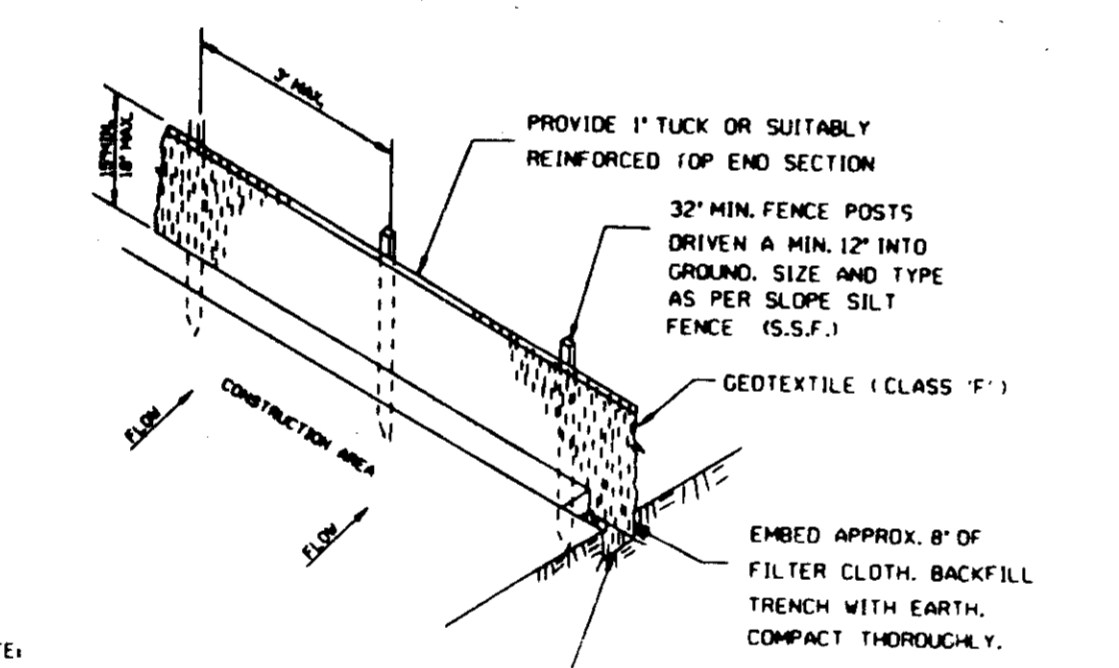
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

A. SITE ANALYSIS:

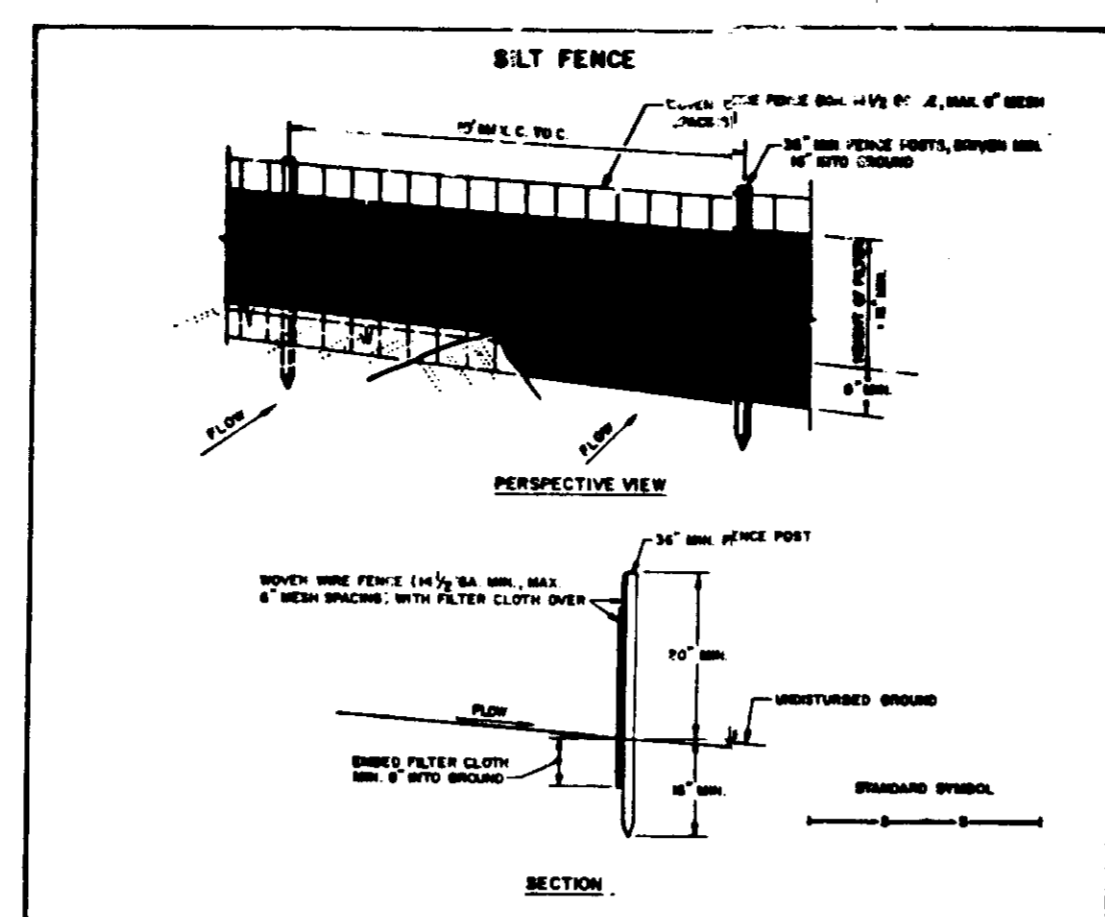
- PROPOSED PATHWAY 1,930 L.F. TOTAL
- PROPOSED BRIDGE CROSSING 0.0 TOTAL
- FUTURE TOT LOT 0.0 TOTAL
- FUTURE PLAY MEADOW 0.0 TOTAL
- FUTURE SITTING AREA AT OVERLOOK 0.0 TOTAL
- TOTAL DISTURBED AREA PATHWAY CONSTRUCTION = 19,300 FT<sup>2</sup>
- TOTAL PAVED AREA = 11,560 FT<sup>2</sup>
- TOTAL AREA TO BE VEGETATIVELY STABILIZED: 7,020 FT<sup>2</sup>

NOTE:

- FILTER CLOTH FABRIC TO BE FASTENED SECURELY TO FENCE POST BY USE OF WIRE TIES OR HDG RINGS, 2 PER POST



CHANNEL SILT FENCE AT STREAM CROSSING  
N.T.S.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WHEN WIRE FENCE IS FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WIRE TIES WITH TIES SPACED EVERY 12\"/>
- WHEN THE SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND PILED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT WEAR AND TEAR. PATCHES DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER 1\"/>

FENCE: WOVEN WIRE, 36\"/>

FILTER CLOTH: FILTER X, PERM. 100, 2\"/>

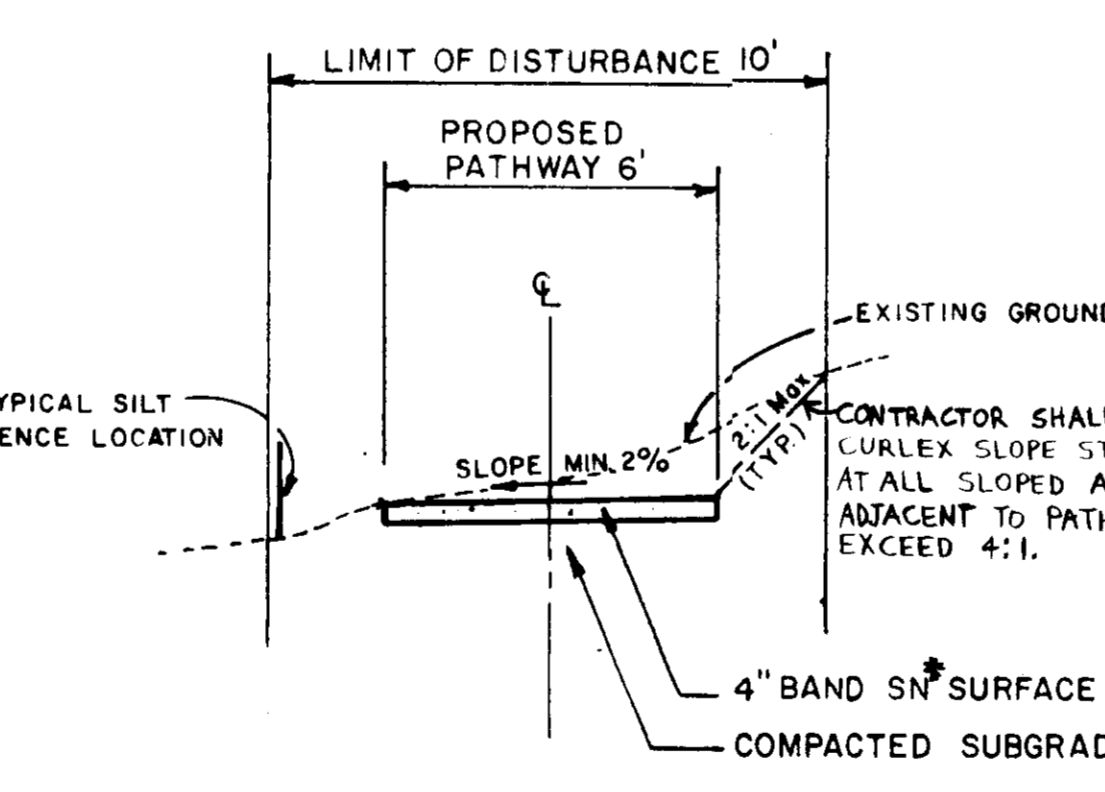
PREPARED UNIT: GEOTEX, GEOTEX, OR APPROVED EQUIV.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

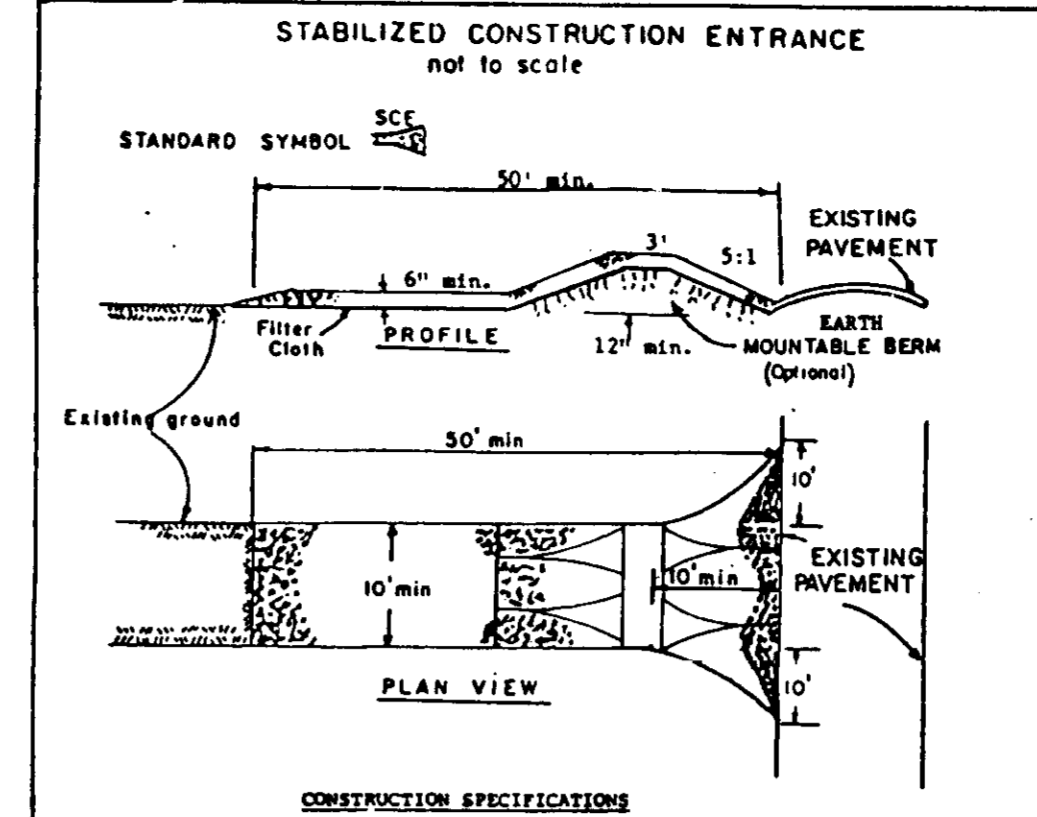
STANDARD SYMBOL  
SF-1

SEQUENCE OF CONSTRUCTION

- Notify the Howard County Soil Conservation District and the Howard County SEDIMENT CONTROL DIVISION at least 48 hours prior to starting any work. (880-3450)
- Notify MPE 10 DAYS PRIOR TO STARTING WORK. (681-3603)
- Clear and grub for sediment and erosion control measures only. (1 Day)
- Install silt fence along the pathway section to be constructed. Place silt fence on the downhill side of the proposed pathway. In accordance with the Howard County Soil Conservation District, Division of Licenses and Permits and the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control and all latest revisions. (1 Day)
- Notify Howard County Department of Permits and Licenses, Sediment Control Division, upon completion of said installation.
- The proposed pathway alignment shall be field staked and approved by the engineer.
- Once approval is given by the Howard County Department of Permits and Licenses and the Sediment Control Inspector, clear and grub areas for pathway construction. (2 Days)
- Grade for pathway construction as close as possible to existing grades. (2 Days)
- Maintain positive drainage to sediment control devices. No slopes are to exceed 3:1. Immediately stabilize all rough graded areas. (2 Days)
- Install pathway asphalt as required to maintain positive drainage flow. (3 Days)
- With permission from the Howard County Sediment Control Inspector, remove all erosion control devices and stabilize those areas. (1 Day)



TYPICAL PATHWAY CROSS SECTION  
SCALE: 1/4" = 1' - 0"



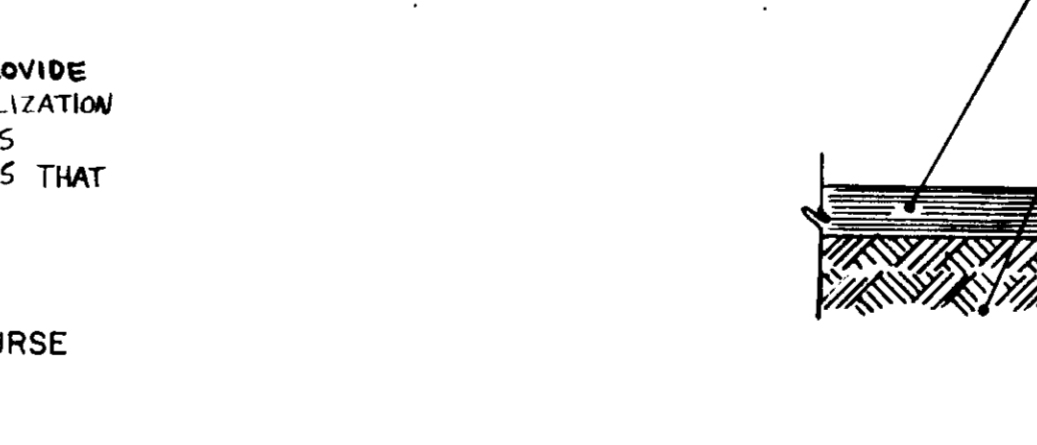
CONSTRUCTION SPECIFICATIONS

- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

SOIL CONSERVATION MS. STABILIZED CONSTRUCTION ENTRANCE Standard Drawing SCL-2

GRADATION BANDS

BITUMINOUS CONCRETE - CRUSHED STONE MIXES	SCREEN SIZE	SN
	3/4"	90 - 100
	3/8"	65 - 85
	#4	45 - 65
	#8	35 - 55
	#16	22 - 42
	#30	10 - 32
	#60	5 - 24
	#100	3 - 12
	#200	3.0 - 11.0
	AC-20-S (Asph. Content)	



TYPICAL PAVING SECTION PROPOSED PATHWAY  
N.T.S.

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

DATE: 2-6-92

DATE: 4/14/92

DATE: 4/10/92

DATE: 4/3/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, BY THE COUNTY HEALTH DEPARTMENT.

DATE: 4/12, 1991

GENERAL NOTES:

- ALL TREES 12" IN DIAMETER OR LARGER SHOULD REMAIN PROTECTED AND UNDISTURBED.
- THE DEVELOPER SHALL REQUEST A WAIVER TO HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.116c6, IN THE EVENT THAT WORK WILL BE DONE WITHIN A 25' WETLAND BUFFER OR 75' STREAM BUFFER AREA.

OWNER/DEVELOPER  
COLUMBIA PARK & RECREATION ASSOCIATION  
9861 BROKEN LAND PARKWAY  
SUITE 300  
COLUMBIA, MD 21046  
PHONE: (301) 381-0020

ADDRESS CHART	
BUILDING	STREET ADDRESS
	9265 Hampden Lane

SUBDIVISION NAME: VILLAGE OF OWEN BROWN	SECTION/AREA: 4/1	LOT: 522
PLAT: PB27,68,69,72, 88	TAX/ZONE MAP: 36	CENSUS TR: 6067.02
WATER CODE: N/A	SEWER CODE: N/A	

SCALE: AS SHOWN

DRAWN: [Signature]

CHECKED: [Signature]

PROJ. NO: 108710a

DATE:

SHEET 3 OF 3

RESPONSIBLE PERSONNEL CERTIFICATION

I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A MPE UNIT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE: 11/19/91

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."

DATE: 11/19/91

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 OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY."

DATE: 11/19/91

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

APPROVED: [Signature]

DATE: 12/16/91

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

APPROVED: [Signature]

DATE: 12/16/91

REVISIONS

NO.	DESCRIPTION	DATE

PREPARED BY: KCI TECHNOLOGIES, INC.  
ENGINEERS-PLANNERS-SURVEYORS  
13992 BALTIMORE AVENUE / SUITE 300  
LAUREL, MD 20707  
PHONE: (301) 792-8086

DETAIL SHEET

A PORTION OF

VILLAGE OF OWEN BROWN

OPEN SPACE MASTER PLAN