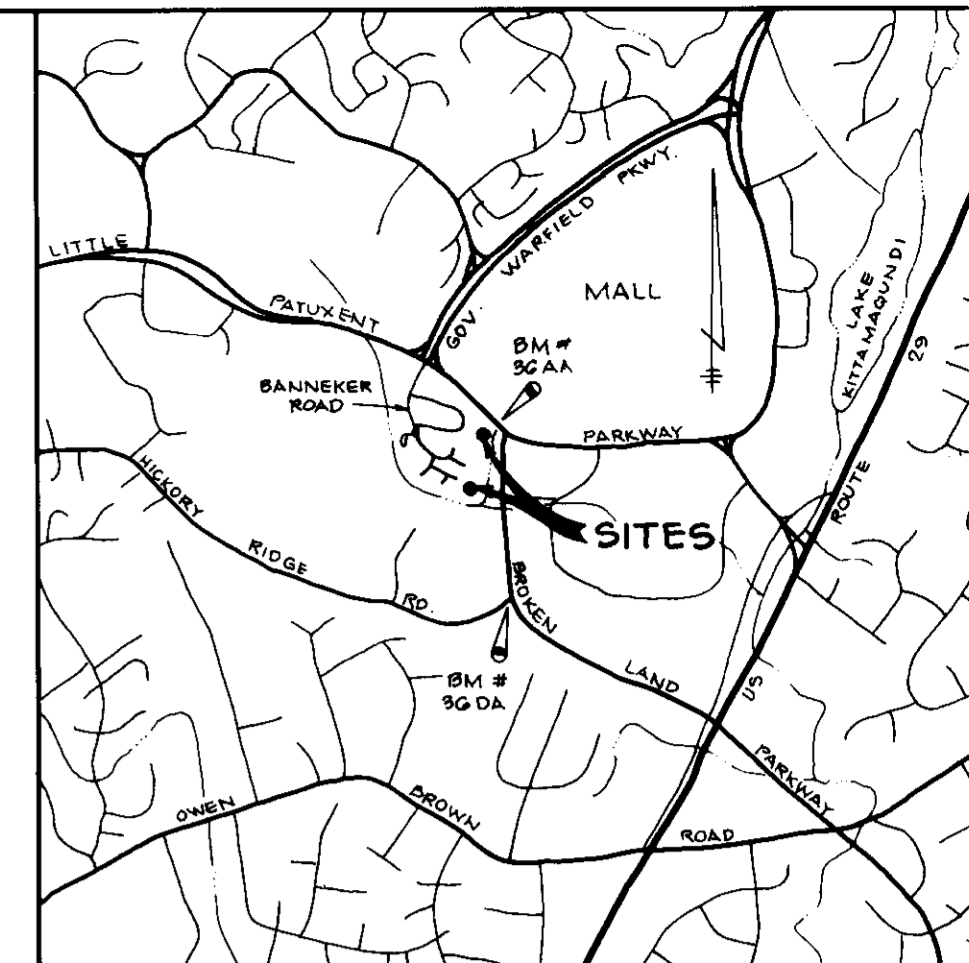


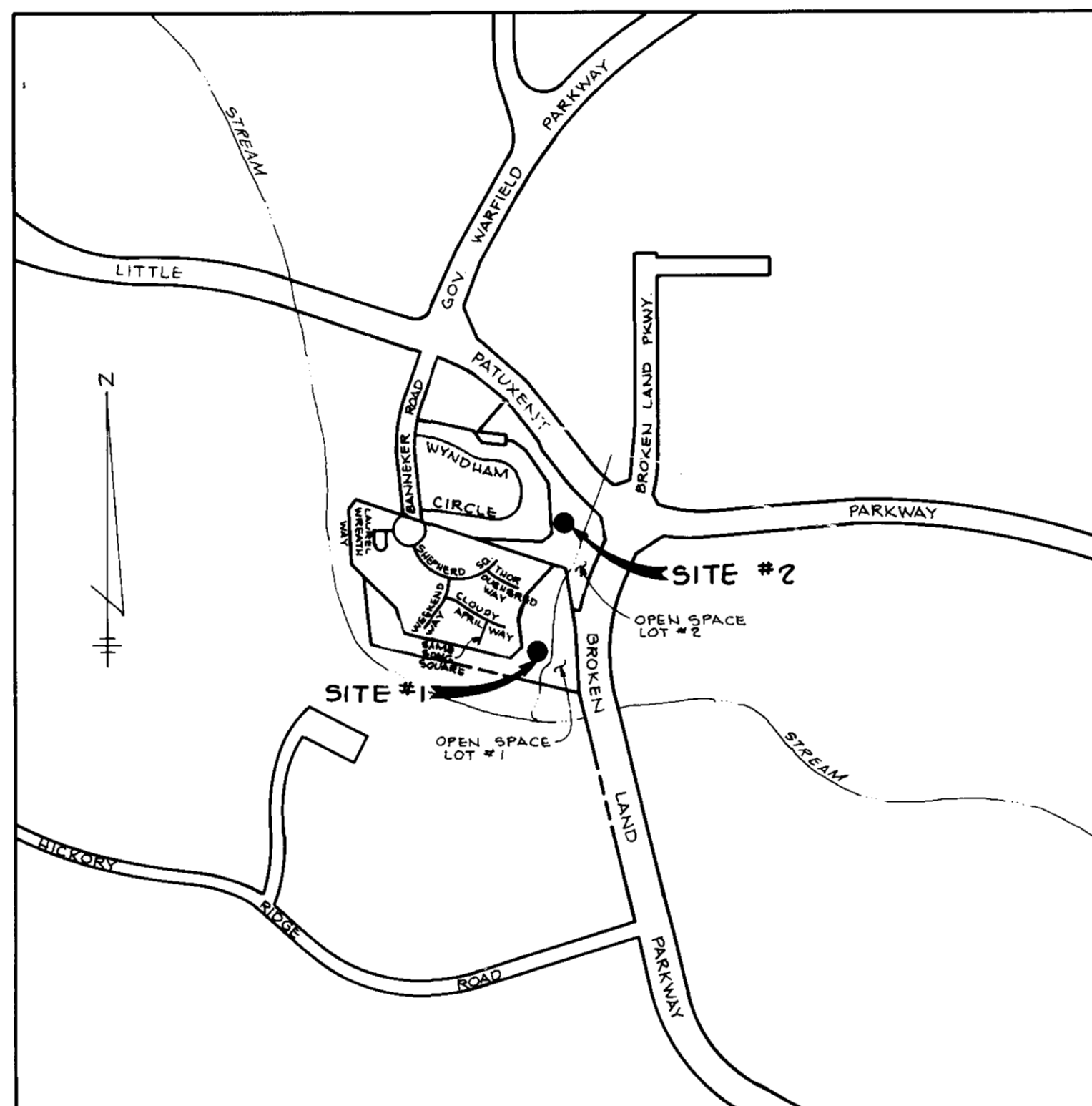
GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS AMENDED IN JANUARY 1989.
- 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.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. 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.
- CONTRACTOR TO ALSO COMPLY WITH SEDIMENT CONTROL NOTES AS DOCUMENTED ON SHEET 4.
- THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS NOT SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND NOTIFY THE ENGINEER.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 "MISS UTILITY" (800) 257-7777
 BALTIMORE GAS & ELECTRIC COMPANY (410) 234-6691
 C&P TELEPHONE (410) 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 BUILDING 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 ARE STABILIZED AT THAT POINT. ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED.
- THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 343-8930.
- TOPO TAKEN FROM A SURVEY BY MILLER AND ASS. DATED 6/94.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, AS PER PLAT NO'S. 68036840, 6898, 9794 AND 10724.
- PRIOR TO START OF ANY CONSTRUCTION CONTRACTOR SHALL STAKE-OUT 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.
- 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, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
- 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.
- DEMARCATHE THE LIMIT OF DISTURBANCE AREA ON THE SITE WITH A CONSTRUCTION FENCE PRIOR TO ANY CLEARING AND GRADING ACTIVITY FOR THE TOT LOT CONSTRUCTION.
- STORMWATER MANAGEMENT FOR THESE SITES WAS PROVIDED UNDER ORIGINAL SUBDIVISION PLANS IE: P-93-22 AND P-91-49.
- MAINTENANCE OF THE TOT LOTS WILL BE THE RESPONSIBILITY OF THE COLUMBIA ASSOCIATION, THE OWNER.
- ALL TREES 12 INCHES IN DIAMETER AND LARGER ARE NOT TO BE DISTURBED. ALL TREES WITHIN LIMITS OF DISTURBANCE TO HAVE TREE PROTECTION FENCE INSTALLED AROUND THEM.
 THE FOLLOWING DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS SHALL APPLY: SOP 94-114 AND FDP PHASE G1-A-11 AND WP-95-59

TOWN CENTER TOT LOTS



VICINITY MAP
SCALE: 1" = 2000'



LOCATION MAP
SCALE: 1" = 800'

LEGEND

- LIMIT OF DISTURBANCE (TREE PROTECTION/CONSTRUCTION FENCE) - Dotted line
- EXISTING CONTOUR - Dashed line with 3.08
- PROPOSED CONTOUR - Solid line with 3.08
- SILT FENCE - Line with 'S' markers
- EXISTING TREES - Circle with '10' TO BE REMOVED' or '10' TO REMAIN'

HOWARD COUNTY MONUMENT #36AA
 STAMPED CONCRETE MONUMENT 1.5' NORTH OF CURB ON WEST BOUND LANE OF LITTLE PATUXENT PARKWAY APPROXIMATE 100' WEST OF BROKEN LAND PARKWAY.
 HOWARD COUNTY MONUMENT #36DA
 STAMPED CONCRETE MONUMENT IN TRAFFIC ISLAND IN EAST BOUND LANE OF HICKORY RIDGE ROAD AT BROKEN LAND PARKWAY.

WP 95-59 - WAIVED SECTIONS 1G, 115(C)(2) AND 1G, 116(a)(1) & (2) PERMITTING DISTURBANCE WITHIN THE 100 YEAR FLOODPLAIN, 25 FOOT WETLAND BUFFER AND 75 FOOT STREAM BUFFER AND WAS GRANTED ON 1-27-95

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Robert Engler
 U.S. SOIL CONSERVATION SERVICE
 DATE: 7/1/94

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 COUNTY SOIL CONSERVATION DISTRICT.

ENGINEER: JOHN R. HEINRICHS
 DATE: 7/1/94

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER: DENIS ELLIS
 COLUMBIA ASSOCIATION
 DATE: 7/1/94

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

APPROVED DEPARTMENT OF PLANNING AND ZONING
 HOWARD S.C.D.
 DATE: 8/31/95

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/31/95

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE: 8/31/95

DIRECTOR
 DATE: 7/1/95

29 March 1995

Date	No	Revision Description

OWNER/DEVELOPER
THE COLUMBIA ASSOCIATION
 ATTN: DENIS ELLIS
 10221 WINCOPIN CIRCLE, SUITE 100
 COLUMBIA, MARYLAND 21044-3410
 (410) 312-6325

PHOENIX ENGINEERING, INC.
 CONSULTING ENGINEERS
 817 MALDEN CROCKER LANE, SUITE 300
 BALTIMORE, MARYLAND 21228
 (410) 247-8833 FAX 247-8397

AREA
 COLUMBIA - TOWN CENTER
 SECTION 3, AREA 2
 OPEN SPACE LOTS 1 AND 2 PLAT 9749 & 10724
 5th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
TOT LOTS 1 & 2
SITE DEVELOPMENT PLAN
SEDIMENT CONTROL PLAN

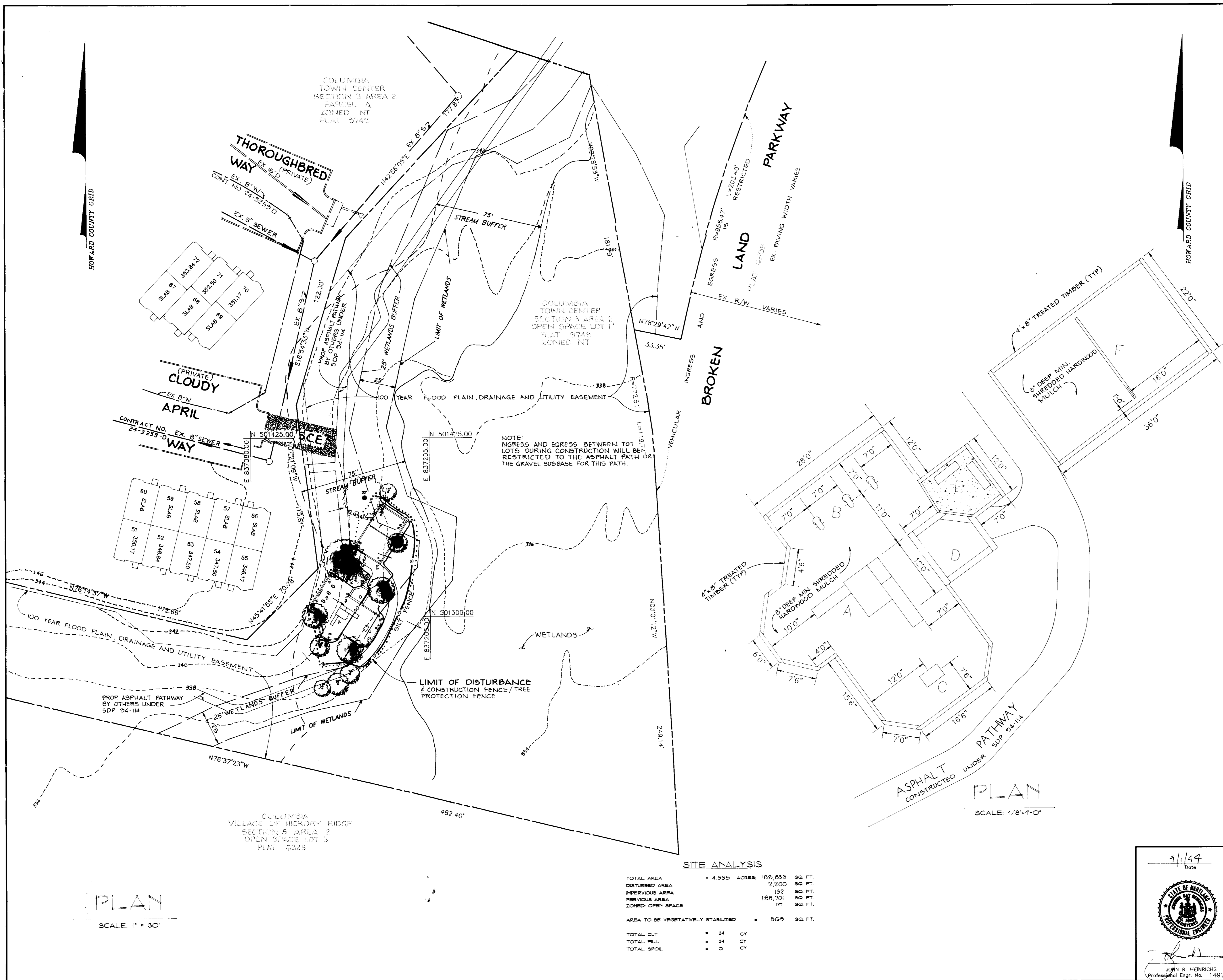
Des By	R.J.W.	Scale	AS SHOWN	Proj No	94-0300 TOT LOTS 1 & 2
Dim By	R.B.A.	Date	JULY 1994	DRAWING NO	1 OF 4
Chk By	J.R.H.	SDP-95-32			

ADDRESS CHART	
LOT No.	STREET ADDRESS
GS LOT 1	CLOUDY APRIL WAY
GS LOT 2	5850 WYNDHAM CIRCLE
SUBDIVISION NAME: COLUMBIA TOWN CENTER	
SECT/AREA: 3/2	PARCEL: OS LOT 1&2
PLAT: 9749 & 10724	BLOCK: 1 ZONE: NT TAX/ZONE: MAP 36 ELEC. DIST.: 5th CENSUS TR.: 6056.00
WATER CODE: N/A	SEWER CODE: N/A

9/1/94
 Date

 JOHN R. HEINRICHS
 Professional Engr. No. 14920

SDP 95-32



PROPOSED EQUIPMENT

- A - FORT R-2 W/8' SLIDE
- B - (3) SPRING ANIMALS
- C - CRAWL THROUGH TUNNEL
- D - SANDBOX
- E - CONCRETE PAD W/(2) BENCHES
- F - 4 SEAT DOUBLE T-SWING

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Patricia Engle 8/20/95
 HOWARD COUNTY SOIL CONSERVATION SERVICE DATE

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 COUNTY SOIL CONSERVATION DISTRICT.

John R. Heinrichs 9-1-94
 ENGINEER: JOHN R. HEINRICHS DATE

BY THE DEVELOPER:
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Denis Ellis 9-1-94
 DEVELOPER: DENIS ELLIS DATE
 COLUMBIA ASSOCIATION

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

John R. Heinrichs 8/20/95
 HOWARD COUNTY DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING

John R. Heinrichs 8/20/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Swannick 8/31/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

David S. DeLoach 7/1/95
 DIRECTOR DATE

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 29 March 1995

Date	No	Revision Description

OWNER/DEVELOPER
THE COLUMBIA ASSOCIATION
 ATTN: DENIS ELLIS
 10221 WINCOPIN CIRCLE, SUITE 100
 COLUMBIA, MARYLAND 21044-3410
 (410) 312-6325

PHOENIX ENGINEERING, INC.
 CONSULTING ENGINEERS
 617 MAIDEN CREEK LANE, SUITE 300
 BALTIMORE, MARYLAND 21208
 (410) 247-8833 FAX 247-9397

AREA
 COLUMBIA TOWN CENTER SECTION 3 AREA 2
 OPEN SPACE LOTS 1 & 2
 PLAT 9749 - 10724
 5th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
TOT LOT #1 CLOUDY APRIL WAY
 SITE DEVELOPMENT PLAN
 SEDIMENT CONTROL PLAN

DES BY: R.J.W. SCALE: AS SHOWN PROJ: 94-0900
 DRN BY: R.B.A. DATE: JULY 1994
 CHK BY: J.R.H. SDP: 95-32 2 OF 4

9/1/94
 Date

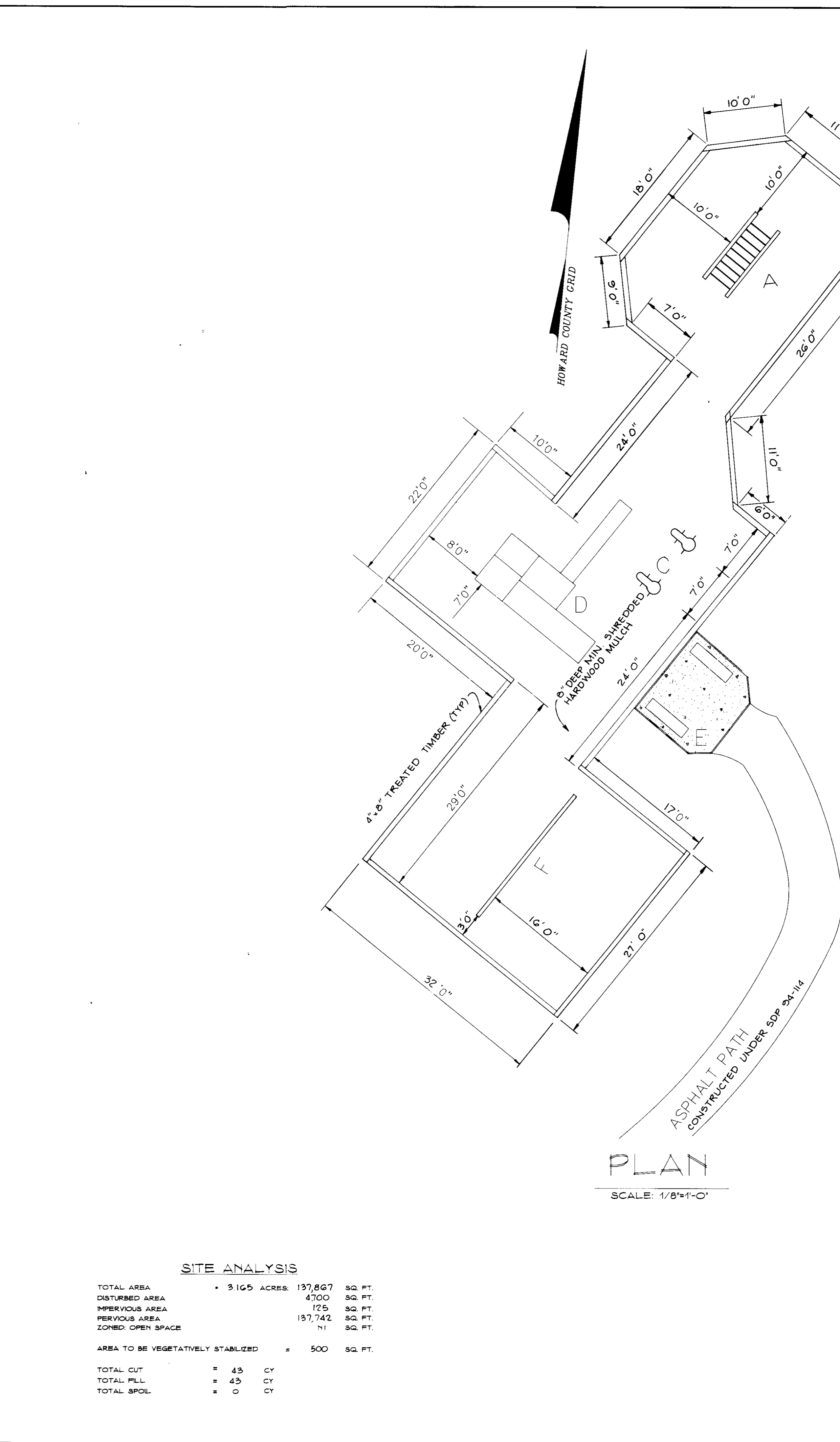
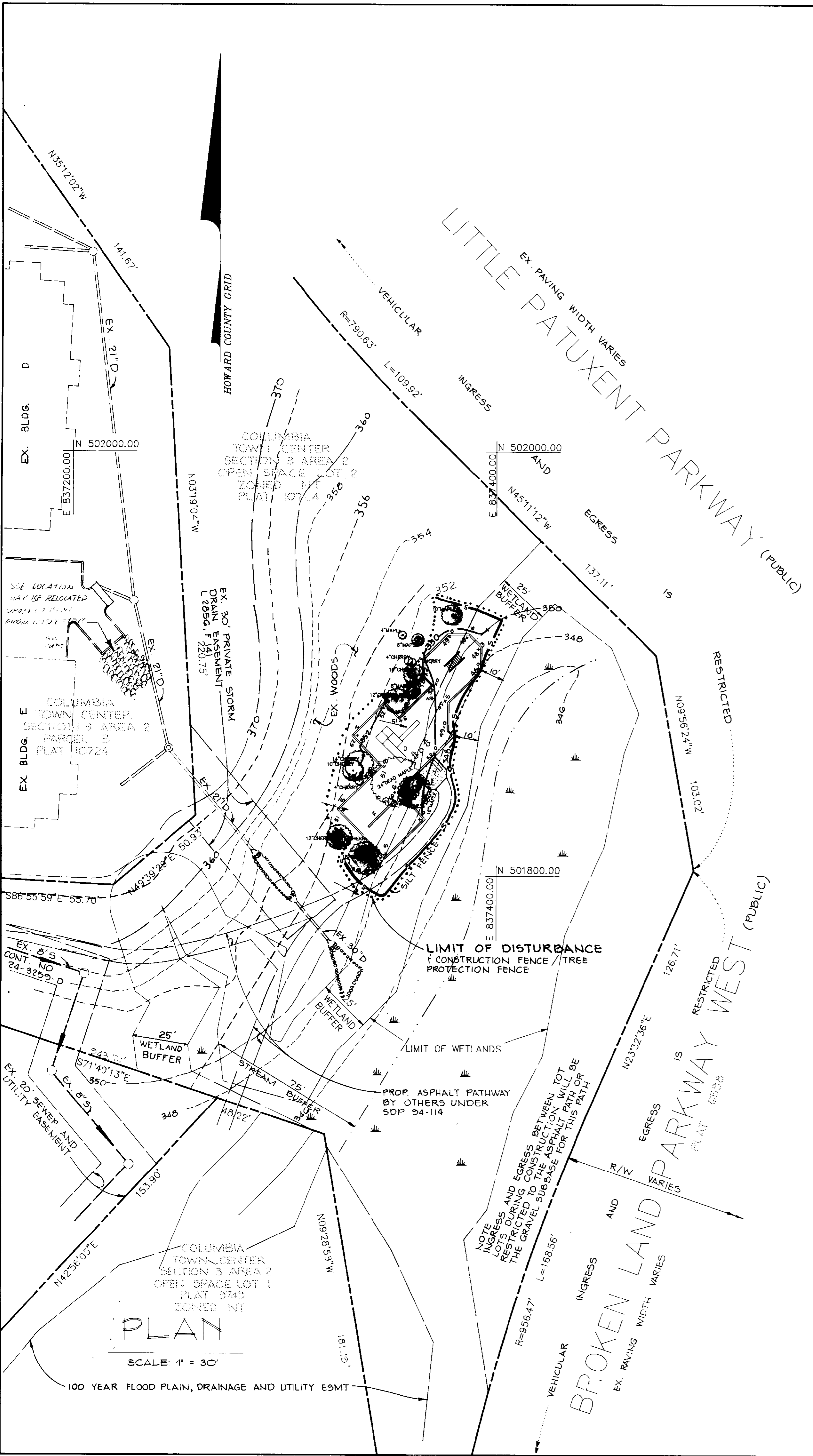
JOHN R. HEINRICHS
 Professional Engr. No. 14920

SITE ANALYSIS

TOTAL AREA	4.335 ACRES	188,833 SQ. FT.
DISTURBED AREA		2,200 SQ. FT.
IMPERVIOUS AREA		132 SQ. FT.
PERVIOUS AREA		188,701 SQ. FT.
ZONED OPEN SPACE		NT SQ. FT.
AREA TO BE VEGETATIVELY STABILIZED		565 SQ. FT.
TOTAL CUT		24 CY
TOTAL FILL		24 CY
TOTAL SPOIL		0 CY

PLAN
 SCALE: 1" = 30'

PLAN
 SCALE: 1/8" = 1'-0"



- PROPOSED EQUIPMENT**
- A - HORIZONTAL LADDER
 - C - SPRING ANIMALS
 - D - FORT R-3 W/12' SLIDE
 - E - CONCRETE PAD W/BENCH
 - F - 4 SEAT DOUBLE T-SWING

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Patrick Eyles 9/1/94
 DATE
 SOIL CONSERVATION SERVICE

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 COUNTY SOIL CONSERVATION DISTRICT.

John R. Heinrichs 9/1/94
 DATE
 ENGINEER: JOHN R. HEINRICHS

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Denis Ellis 1-1-14
 DATE
 DEVELOPER: DENIS ELLIS
 COLUMBIA ASSOCIATION

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

John R. Heinrichs 9/1/94
 DATE
 APPROVED: DEPARTMENT OF PLANNING AND ZONING

John R. Heinrichs 8/21/95
 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Jana Jannary 8/21/95
 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Marcus S. DeLange 9/1/95
 DATE
 DIRECTOR

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 29 March 1995

Date	No	Revision Description
1/27/95		REVISIONS AS PER COUNTY COMMENTS

OWNER/DEVELOPER
THE COLUMBIA ASSOCIATION
 ATTN: DENIS ELLIS
 10221 WINGOPIN CIRCLE, SUITE 100
 COLUMBIA, MARYLAND 21044-3410
 (410) 312-6325

PHOENIX ENGINEERING, INC.
 CONSULTING ENGINEERS
 617 MAIDEN CHOICE LANE, SUITE 300
 BALTIMORE, MARYLAND 21229
 (410) 247-8850 FAX: 247-8287

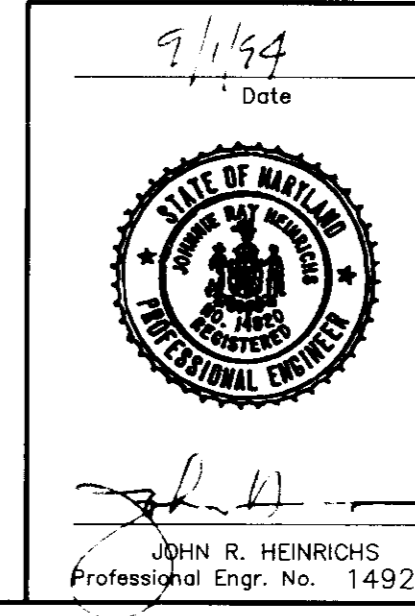
AREA
 COLUMBIA TOWN CENTER SECTION 3 AREA 2
 OPEN SPACE LOT 1 & 2
 PLAT 9749 & 10724
 5th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

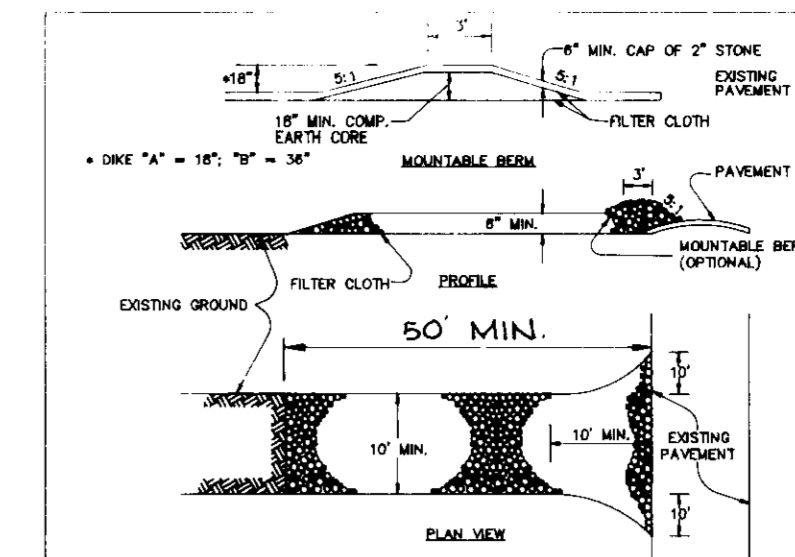
TITLE
TOT LOT #2 WYNDHAM CIRCLE
 SITE DEVELOPMENT PLAN
 SEDIMENT CONTROL PLAN

Des By R.J.W. Scale AS SHOWN Proj No 84-0300 10/20/89
 Dwn By R.B.A. Date JULY 1994 DRAWING NO
 Ck'd By J.R.H. SDP-95-32 3 OF 4

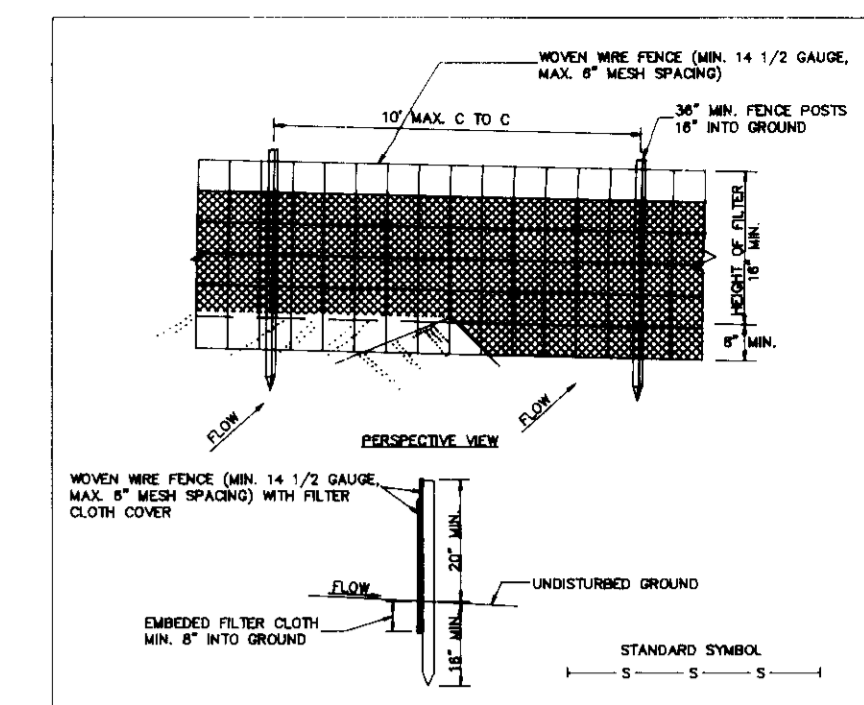
SITE ANALYSIS

TOTAL AREA	=	3.165 ACRES	137,867	SQ. FT.
DISTURBED AREA	=		4700	SQ. FT.
IMPERVIOUS AREA	=		125	SQ. FT.
PERVIOUS AREA	=		137,742	SQ. FT.
ZONED OPEN SPACE	=		NI	SQ. FT.
AREA TO BE VEGETATIVELY STABILIZED	=		500	SQ. FT.
TOTAL CUT	=	43		CY
TOTAL FILL	=	43		CY
TOTAL SPOIL	=	0		CY





- 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 24" (8" MINIMUM).
 - WIDTH - 5 FEET TO 10 FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - FILTER CLOTH - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE FILTERED BY 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 ENTRANCE SHALL BE FILTERED BY THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOES OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC OR FREQUENT CLEANING OF THE ENTRANCE AS NECESSARY. DEMAND AND REPAIR AND/OR CLEANING OF ANY WEARWAYS SHALL BE TRAP SEDIMENT, ALL SEDIMENT SHALL BE REMOVED FROM THE ENTRANCE AND TRACKED 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 IN AN AREA DESIGNATED WITH STONE AND WASH DRAINS INTO AN APPROVED SEDIMENTATION BASIN.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- STABILIZED CONSTRUCTION ENTRANCE**



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WIRE MESH FENCE SHALL BE 1/2" GAUGE, MAX. 6" MESH SPACING WITH FILTER CLOTH COVER.
 - FILTER CLOTH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FENCE POSTS SHALL BE 1 1/2" DIA. 16" HIGH, 14 GA. 6" MAX. MESH SPACING.
 - WIRE MESH FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - WIRE MESH FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
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 - WIRE MESH FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- SILT FENCE**

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

John R. Heinrichs
 SOIL CONSERVATION SERVICE
 DATE: 8/28/95

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 COUNTY SOIL CONSERVATION DISTRICT.

John R. Heinrichs
 ENGINEER: JOHN R. HEINRICHS
 DATE: 8/19/94

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Denis Ellis
 DEVELOPER: DENIS ELLIS
 DATE: 7-1-94

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

John R. Heinrichs
 HOWARD S.C.D.
 DATE: 8/28/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John R. Heinrichs
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/28/95

John R. Heinrichs
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE: 8/31/95

John R. Heinrichs
 DIRECTOR
 DATE: 9/1/95

APPROVED
 PLAN
 of 15
 DATE: 29 March 1995

Date	No	Revision Description

OWNER/DEVELOPER
COLUMBIA ASSOCIATION
 ATTN: DENIS ELLIS
 10221 WINCOPIN CIRCLE, SUITE 100
 COLUMBIA, MARYLAND 21044-3410
 (410) 312-6325

PHOENIX ENGINEERING, INC.
 CONSULTING ENGINEERS
 817 MADISON CHURCH LANE, SUITE 300
 BALTIMORE, MARYLAND 21208
 (410) 247-8833 FAX 247-8897

AREA
 COLUMBIA TOWN CENTER SECTION 3 AREA 2
 OPEN SPACE LOTS 1 AND 2
 PLAT: 97-48
 5th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL NOTES AND DETAILS

Des By: R.J.W. Scale: AS SHOWN Proj No: 84-0300 TOSD001.00
 Dwn By: R.B.A. Date: JULY 1994 DRAWING NO:
 Ck'd By: J.R.H. SDF-95-92 4 OF 4

SEDIMENT CONTROL NOTES

- A PERIOD OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. *8/13/95*
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN COMPLIANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING FINAL SOLE DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 90 CALENDAR DAYS FOR ALL PERMITS EXCEPT TEMPORARY STABILIZATION. PERMITS FOR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 90 CALENDAR DAYS FOR ALL PERMITS EXCEPT TEMPORARY STABILIZATION.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDING (SMC) IN SOIL (SMC) 48 TEMPORARY SEEDING (SMC) AND MULCHING (SMC) 23 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS
 TOTAL AREA OF SITE: 7.62 ACRES
 AREA DISTURBED: 0.18 ACRES
 AREA TO BE RESEED: 0.18 ACRES
 AREA TO BE NEGATIVELY STABILIZED: 0.02 ACRES
 TOTAL MULCH: 87 CU YDS.
 OPPOSITE WATER/BORROW AREA LOCATION ON SITE
- 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 DEPT. SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 1 ACRE, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUIRED UPON COMPLETION OF INSTALLATION OF PERMITS, REGIONAL AND SEDIMENT CONTROL MEASURES PROCEEDING WITH ANY OTHER BARTH DISTURBANCE OR GRADING OTHER BUILDING OR SEEDING INSPECTOR APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS FINAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

PERMANENT SEEDING NOTES

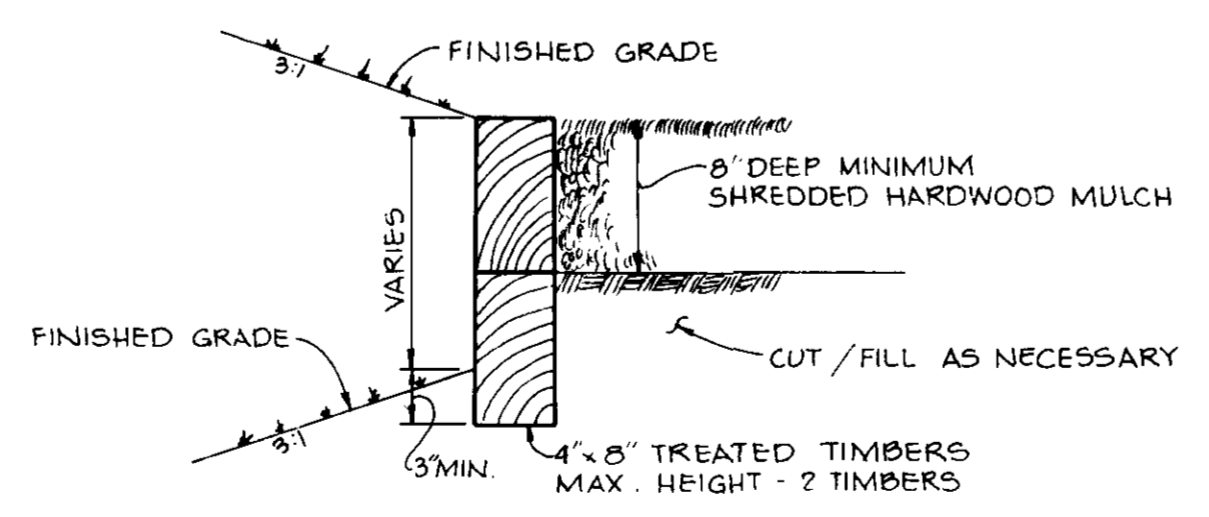
- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAISING, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- PERIODIC:** APPLY 3 TONS PER ACRE SOLICITIC LIMESTONE (85 LBS/1000 SQUARE FT) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (84 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
 - ACCEPTABLE:** APPLY 2 TONS PER ACRE SOLICITIC LIMESTONE (85 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (84 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 31, SEED WITH 80 LBS PER ACRE (84 LBS/1000 SQ FT) OF BENTON 31 TALL FESCUE PER ACRE (84 LBS/1000 SQ FT) OF WHEATSPUR LOOSELEAF DURING THE PERIODS OF OCTOBER 1 THRU FEBRUARY 28, SEED WITH 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION IS TO USE BENTON 31 TALL FESCUE SEEDING 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL-ANCHORED STRAW.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 80 LBS/1000 SQ FT) OF FERTICUT SMALL SEED STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL. ON 2% SLOPE PER ACRE IS 84 LBS/1000 SQ FT OF SMALLER SEED STRAW OR 2% SLOPE PER ACRE IS 84 LBS/1000 SQ FT OF HIGHER USE 348 GAL PER ACRE IS 84 LBS/1000 SQ FT FOR ANCHORING.
- REFER TO THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR DATES AND METHODS NOT COVERED.

TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAISING, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** APPLY 800 LBS PER ACRE 10-10-10 FERTILIZER (84 LBS/1000 SQ FT).
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 31, SEED WITH 1/2 TON PER ACRE OF ANNUAL RYE (32 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THRU AUGUST 31, SEED WITH 3 LBS PER ACRE OF WHEATSPUR LOOSELEAF GRASS (30 LBS/1000 SQ FT) FOR THE PERIODS FROM 1 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOIL.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 80 LBS/1000 SQ FT) OF FERTICUT SMALL SEED STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL. ON 2% SLOPE PER ACRE IS 84 LBS/1000 SQ FT OF SMALLER SEED STRAW OR 2% SLOPE PER ACRE IS 84 LBS/1000 SQ FT OF HIGHER USE 348 GAL PER ACRE IS 84 LBS/1000 SQ FT FOR ANCHORING.

SEQUENCE OF CONSTRUCTION

- DAY 1 OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF LICENSES AND PERMITS. OBTAIN STATE MARYLAND PERMIT.
- DAY 2-3 NOTIFY THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK.
- DAY 4-6 CLEAR AND GRUB AREA FOR AND INSTALL SEDIMENT CONTROL MEASURES.
- DAY 6-7 CLEAR AND GRUB REMAINDER OF SITE AS SHOWN ON PLANS.
- DAY 7-8 GRADE SITE MAINTAINING POSITIVE DRAINAGE AT ALL TIMES.
- DAY 8-10 STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 10-20 COMPLETE ALL CONSTRUCTION AS SHOWN ON PLANS AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 20-22 WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES.



TYPICAL SECTION @ TIMBER EDGE
 NO SCALE

9/1/94
 Date

 JOHN R. HEINRICHS
 Professional Engr. No. 14920