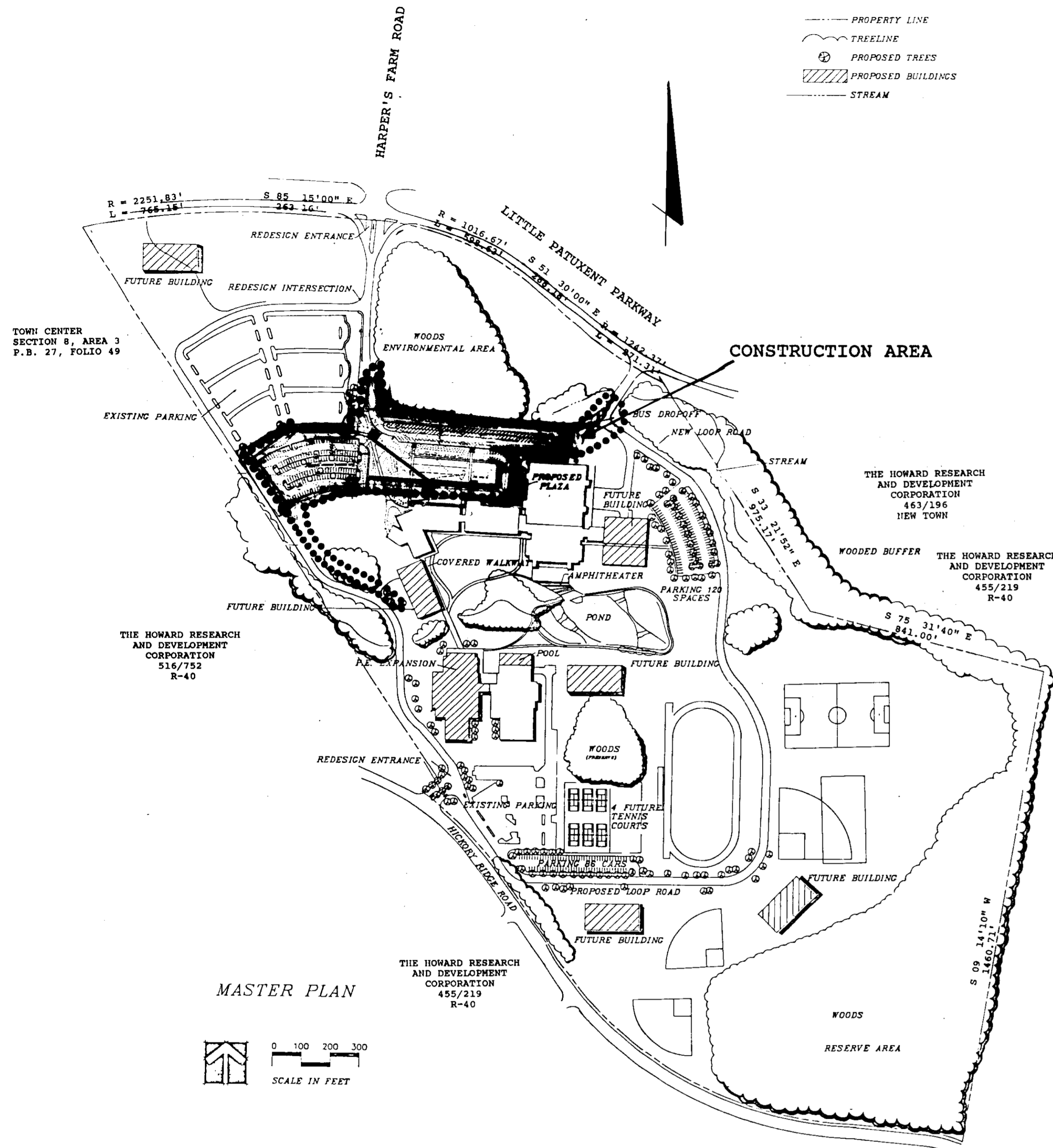
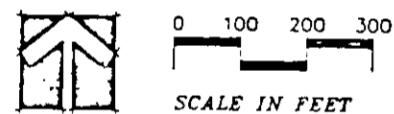


LEGEND

- PROPERTY LINE
- TREELINE
- PROPOSED TREES
- ▨ PROPOSED BUILDINGS
- STREAM



MASTER PLAN



HOWARD COMMUNITY COLLEGE

PREVIOUS RELATED PLAT, PLAN AND CASE FILE NUMBERS, DATED AND DETAILS:

- 1 SDP 87-95 TO SDP 76-30 BUILDING ADDITION 12-09-87.
- 2 SDP 75-46 - PHYSICAL EDUCATION FACILITY
- 3 SDP 76-30 - COMM. ARTS/ADM. BUILDING
- 4 PB 229 TECHNICAL ARTS BUILDING (PARCEL 47 + 50) 10-15-87
- 5 SDP 68-12 - NO ORIGINAL.
- 6 SDP 75-32 - NURSE EDUCATION BUILDING.

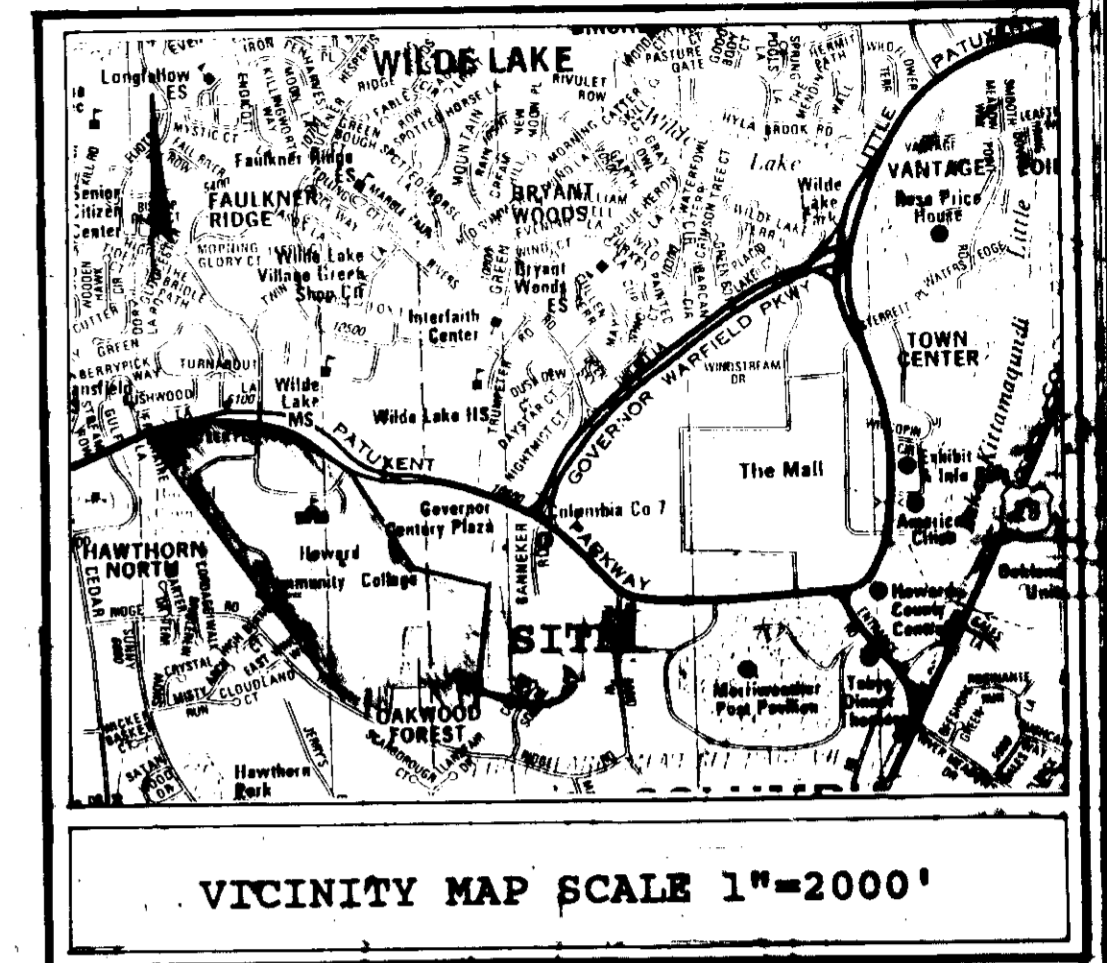
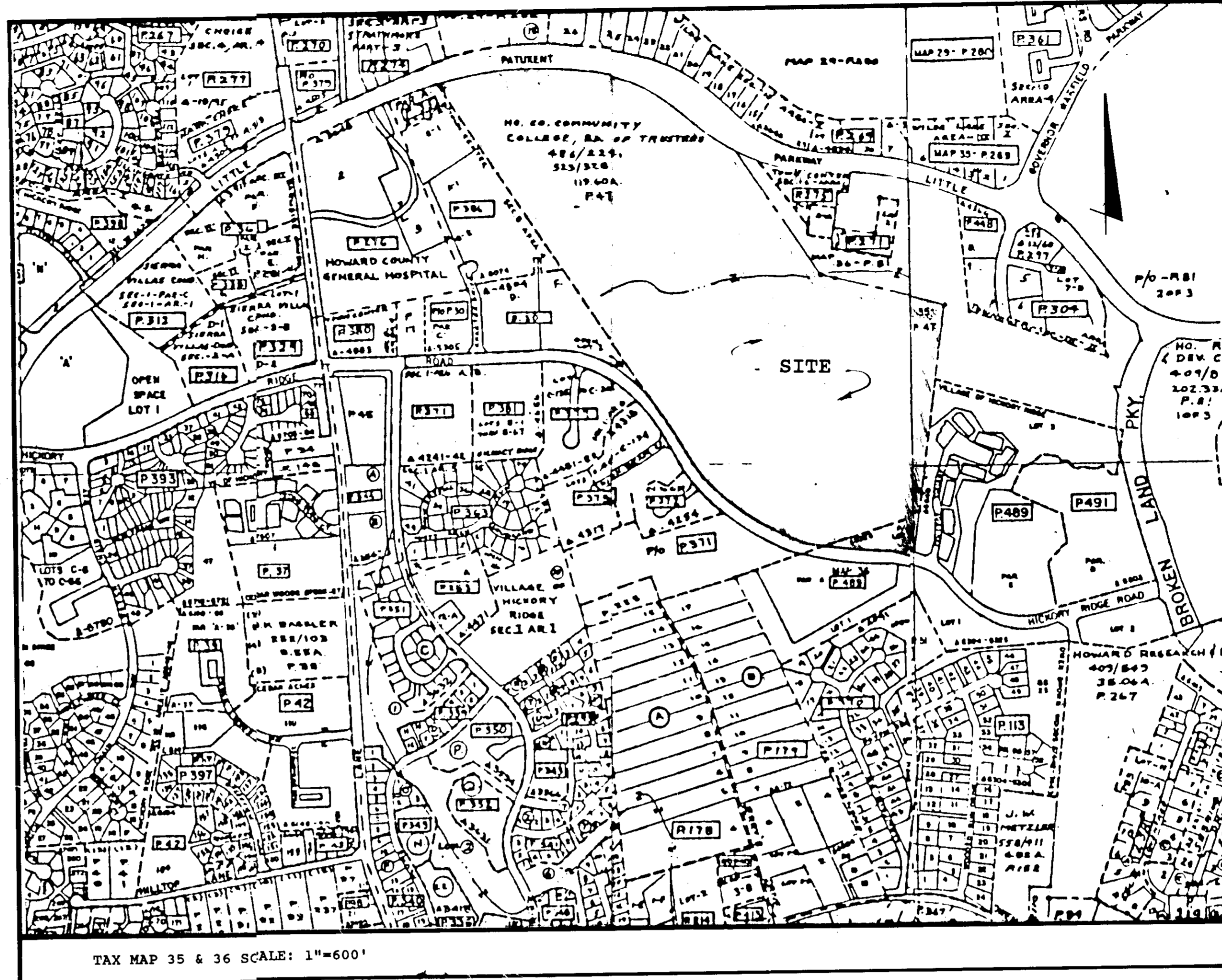
NOTE: THE REFERENCE LISTED ABOVE ARE THE BEST INFORMATION AVAILABLE FROM HOWARD COUNTY.

PROPOSED SITE AMENITIES

- THE PROPOSED SITE AMENITIES FOR HOWARD COMMUNITY COLLEGE ARE AS FOLLOWS:
- A) THE PARKING EXPANSION WITH ADDITIONAL 186 PARKING SPACES ADDED TO THE EXISTING PARKING LOT AT NORTH-WEST CORNER OF NURSE EDUCATION BUILDING.
 - B) THE EXISTING PARKING LOT IN FRONT OF NURSE EDUCATION BUILDING IS REMOVED AND REPLACED BY 12' WIDE CONCRETE WALKS, 16' WIDE CONCRETE FIRE LAND AND LANDSCAPED OPEN SPACE.
 - C) THE EXISTING DRIVEWAY WITH ISLANDS IS MODIFIED TO PROVIDE THE PERPENDICULAR PARKING SPACES (SEE PARKING NOTES FOR DETAIL).

GENERAL NOTES

- (1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- (2) ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE EXPENSE OF CONTRACTOR.
- (3) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- (4) THE LAND INCLUDED IN THIS PLAN IS ZONED: POR
- (5) THE AREA SHOWN IN THIS SUBMISSION IS LOCATED ON ZONE MAP NO. 35 AND 36
- (6) TYPE OF SOIL: MANOR LOAM, GLENELG LOAM, ELIDAK SILT LOAM
- (7) THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 792-7272.
- (8) THE LOCATION OF EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. THE CONTRACTOR MUST CHECK ALL UTILITIES BY TEST PIT BEFORE START OF CONSTRUCTION.



SITE ANALYSIS

- (1) Area of parcel : 119.6 Ac.
- (2) Present Zoning : POR
- (3) Proposed use of structures : Community College (Existing)
- (4) Parking spaces : Addition of 200 spaces

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

Jan M. Nelson 5/28/91
U.S. Soil Conservation Service Date

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

Robert M. Ali 5/28/91
Howard Soil Conservation District Date

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

James M. ... 6-5-91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Joseph ... 4/6/91
DIRECTOR DATE

Mark ... 4/6/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

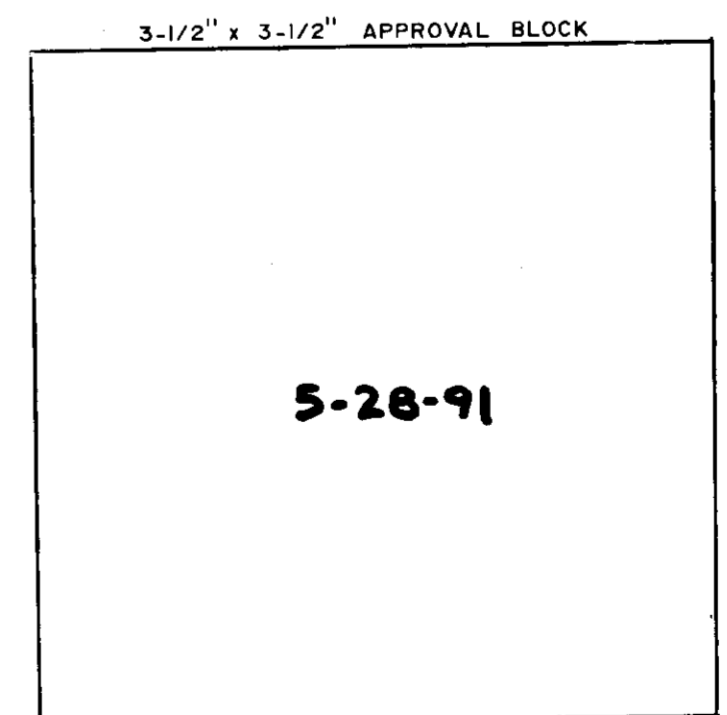
James ... 5/31/91
DIRECTOR DATE

Elizabeth ... 5/21/91
CHIEF BUREAU OF ENGINEERING DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph M. ... 5/21/91
SIGNATURE OF DEVELOPER DATE



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
PARCEL 47	10901 LITTLE PATUXENT PARKWAY

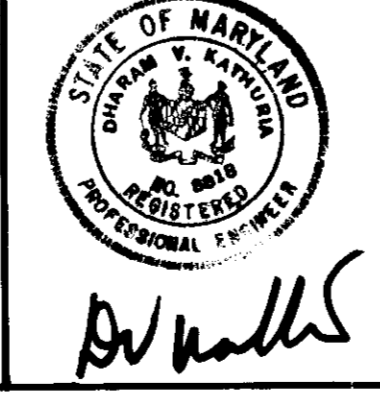
SUBDIVISION NAME		SSGT./AREA	LOT/PARCEL #
HOWARD COUNTY COMMUNITY COLLEGE		N/A	47
PLAT OR L/F	BLOCK #	ZONE	TAX/ZONE MAP
416/218	523/328	6 & 1	35, 36
WATER CODE		ELEC. DIST.	CENSUS TR.
107		5	6053.02
SEWER CODE		5522500	

DESIGNED		DATE		REVISIONS	
DATE	BY	DATE	DESCRIPTION	DATE	DESCRIPTION
12/90	K.A.P.				
12/90	M.C.R.				

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS

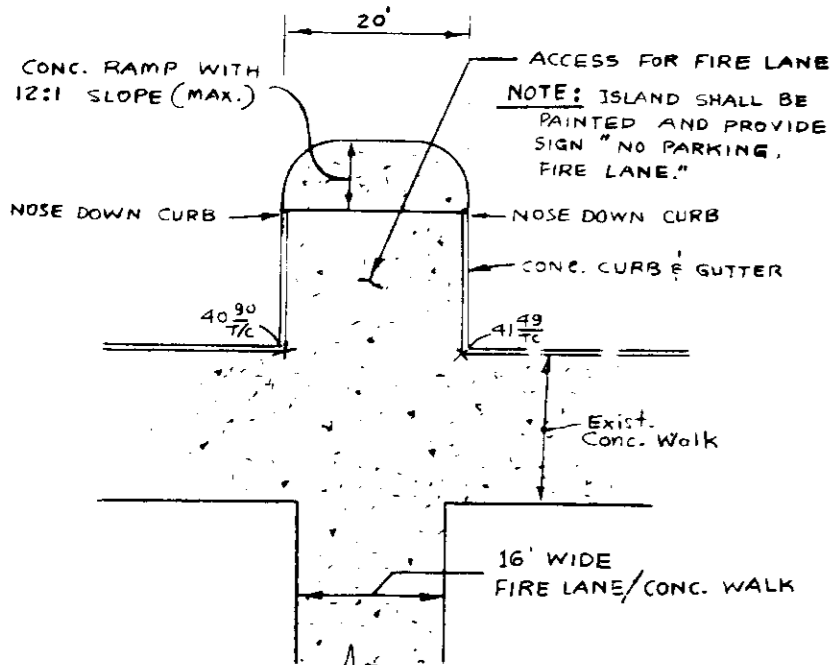
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461-9920



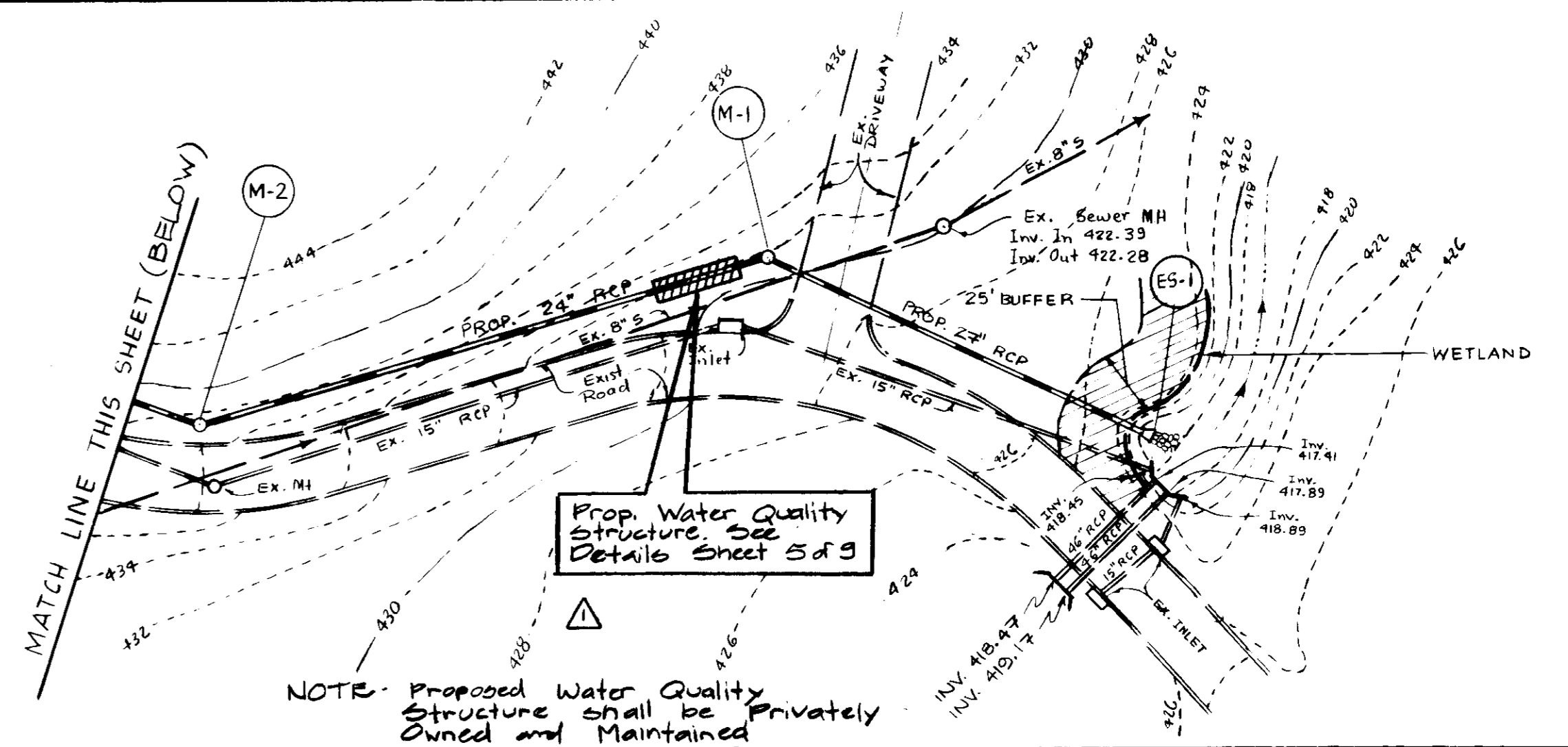
OWNER / DEVELOPER

DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

COVER SHEET			
HOWARD COMMUNITY COLLEGE			
PARKING EXPANSION AND SITE AMENITIES			
5 ELECTION DISTRICT	HOWARD COUNTY,	MARYLAND.	
TAX MAP: 35	BLOCK: 6	PARCEL: 47	
SCALE: AS SHOWN	CONTRACT NO 8211.10	DATE: 12/90	SHEET: 1 OF 9



- A. PARKING NOTES:**
- (1) EXISTING PARKING SPACES TO BE REMOVED (INCLUDING 9 H.C. SPACES).....155 SPACES
 - (2) PROPOSED PARKING SPACES PROVIDED (INCLUDING 9 H.C. SPACES).....341 SPACES
 - (3) INCREASE IN NUMBER OF PARKING SPACES.....186 SPACES
- NOTE:** NO BUILDING ADDITION/EXPANSION PROPOSED.
- B. OPEN SPACE:**
- (1) OPEN SPACE (GREEN AREA) REMOVED BY PARKING CONSTRUCTION.....82,900 SF
 - (2) OPEN SPACE (GREEN AREA) REPLACED BY REMOVAL OF EXISTING PARKING.....46,700 SF
 - (3) NET OPEN SPACE DECREASED.....36,200 SF
- C. LANDSCAPED ISLANDS:**
- (1) AREA OF PROPOSED PARKING AREAS.....122,770 SF
 - (2) LANDSCAPED ISLANDS REQUIRE WITHIN THE PROPOSED PARKING AREAS (54 MIN.).....6,138 SF
 - (3) LANDSCAPED ISLANDS PROVIDED WITHIN THE PROPOSED PARKING AREAS.....6,476 SF (5.30%)



- CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS**
- A) REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA.
 - B) PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE NON-TIDAL WETLAND.
 - C) RECTIFY ANY NON-TIDAL WETLANDS TEMPORARILY IMPACTED BY ANY PROPOSED REPAIR AND MAINTENANCE ACTIVITY OR INSTALLATION OF THE STRUCTURE SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND COVERED IN THEIR ENTIRETY OR BEFORE THE COMPLETION OF CONSTRUCTION AND MUST BE USED WHEN ANY VEGETATIVE STABILIZATION IS PERFORMED.
 - D) REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NON-TIDAL WETLANDS IN EXCESS OF NON-TIDAL WETLANDS UNDER THE ORIGINAL STRUCTURE OR FILL.
 - E) AFTER INSTALLATION HAS BEEN COMPLETED MAKE POST CONSTRUCTION GRADES AND ELEVATIONS OF NON-TIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS.

- MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)**
- 1) WATER QUALITY STRUCTURES WILL REQUIRE PERIODIC CLEANING OUT THE SEPARATOR FACILITIES WILL HAVE TO CLEAN UP AS NEEDED. IT IS THE RESPONSIBILITY OF THE COUNTY DETERMINE IS APPROPRIATE. OWNERS OF WATER QUALITY STRUCTURES SHALL BE NOTIFIED BY THE COUNTY OF THE FREQUENCY OF MAINTENANCE.
 - 2) MAINTENANCE OF THESE FACILITIES WILL CONSIST OF CLEANING OUT THE SEPARATOR AND DISPOSAL OF THE WASTE AND THE REPAIR OF FACILITY AS NEEDED. PERIODIC INSPECTIONS OF THESE FACILITIES SHALL BE MADE BY COUNTY STORMWATER MANAGEMENT GROUP.
 - 3) THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
 - A) ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK, TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT OR SEWAGE TREATMENT PLANT FOR DISCHARGE.
 - B) THE SOLID MATERIAL SHALL BE LAND-FILLED IN AN APPROVED SANITARY LANDFILL.
 - 4) THE INLET PIPES, TRASH PAKES, GRATES, AND STRUCTURAL PARTS SHALL BE REPAIRED AS NEEDED.

ACCESS FOR FIRE LANE DETAIL
NO SCALE

PLAN
1" = 50'

- LEGEND**
- 1 EXISTING GROUND
 - 2 PROPOSED GRADE
 - 3 EXISTING CONC. CURB & GUTTER
 - 4 PROPOSED CONC. CURB & GUTTER
 - 5 PROPOSED CONC. WALK
 - 6 EXISTING PARKING SPACES
 - 7 PROPOSED PARKING SPACES
 - 8 FLOW DIRECTION

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

[Signature] DATE: 5/24/90

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

[Signature] DATE: 5/24/90

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

[Signature] DATE: 5/24/90

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

[Signature] DATE: 6/5/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

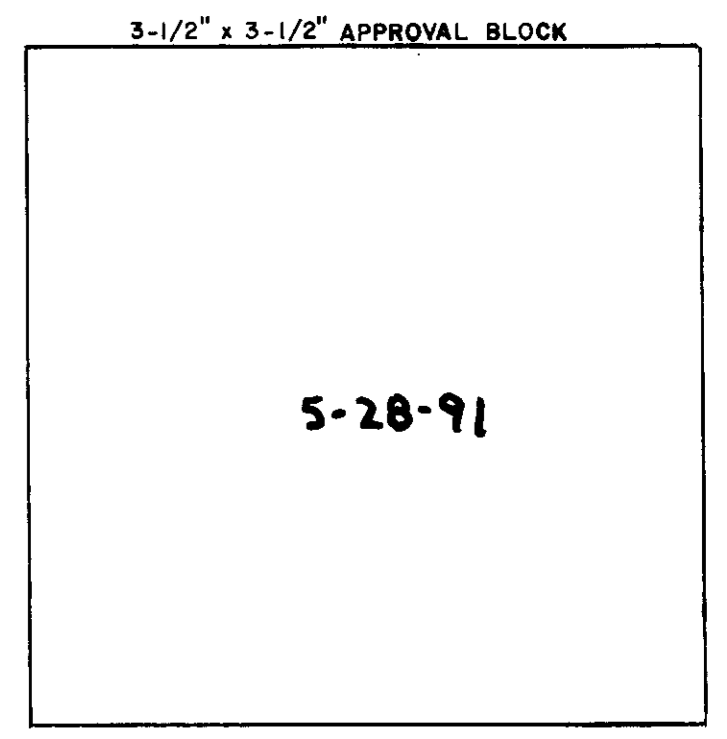
[Signature] DATE: 6/6/91

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

[Signature] DATE: 5/31/91

[Signature] DATE: 5/31/91

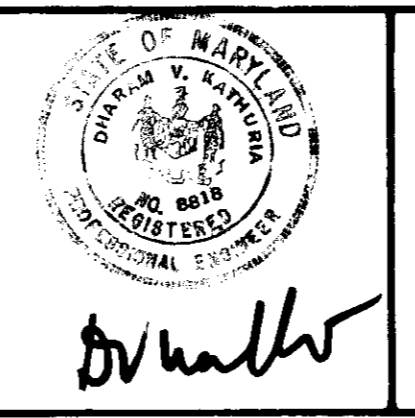


DESIGNED		DATE		REVISIONS	
K.A.P.	12/90	DATE	BY	DESCRIPTION	
M.C.R.	12/90	0-24-91	M.C.R.	Added Water Quality Structures Maintenance & Wetlands Notes	
CHECKED	DATE				
APPROVED	DATE				

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS

3458 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MD 21043
(301) 461-9920



OWNER / DEVELOPER

DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

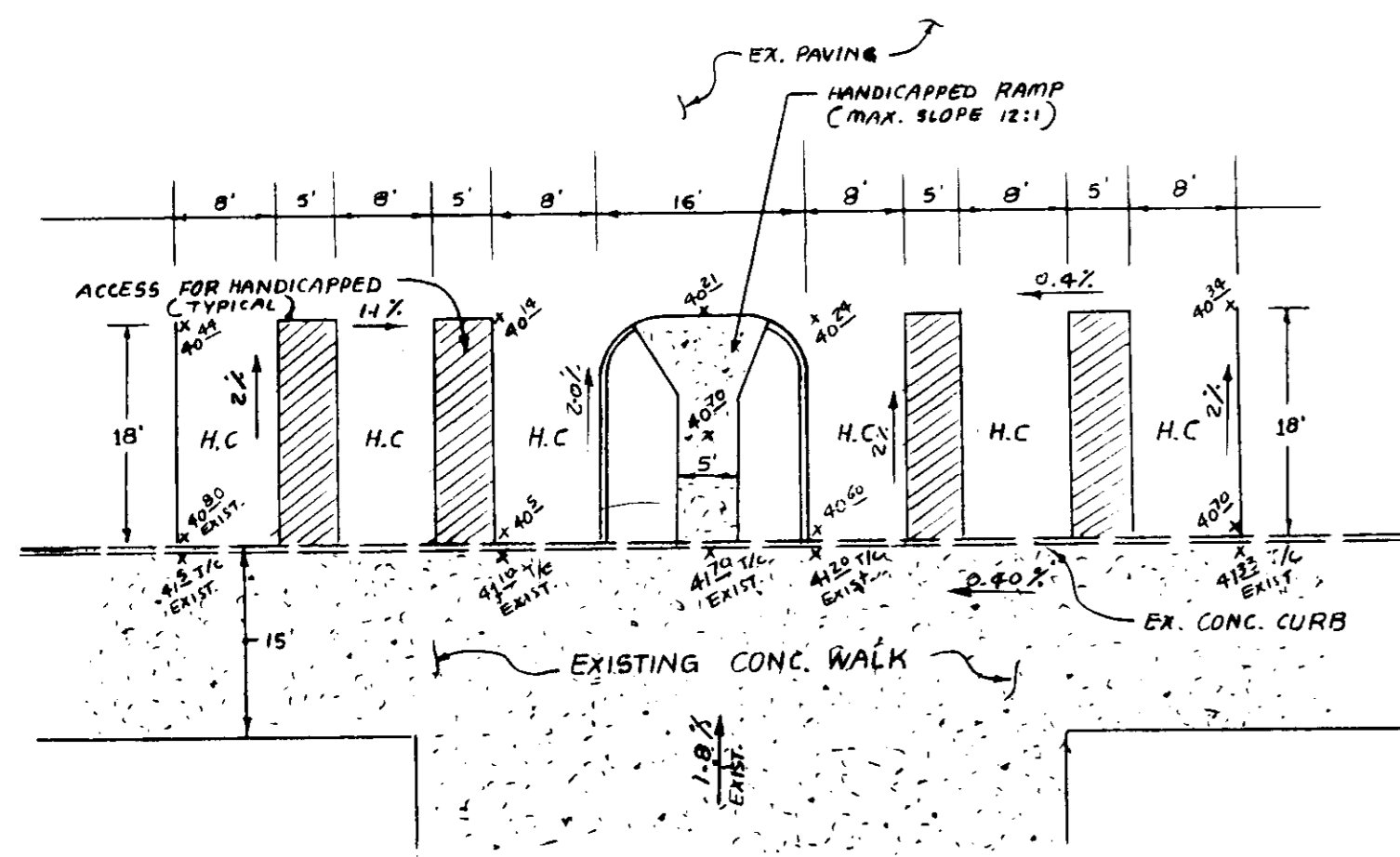
SITE DEVELOPMENT PLAN

HOWARD COMMUNITY COLLEGE

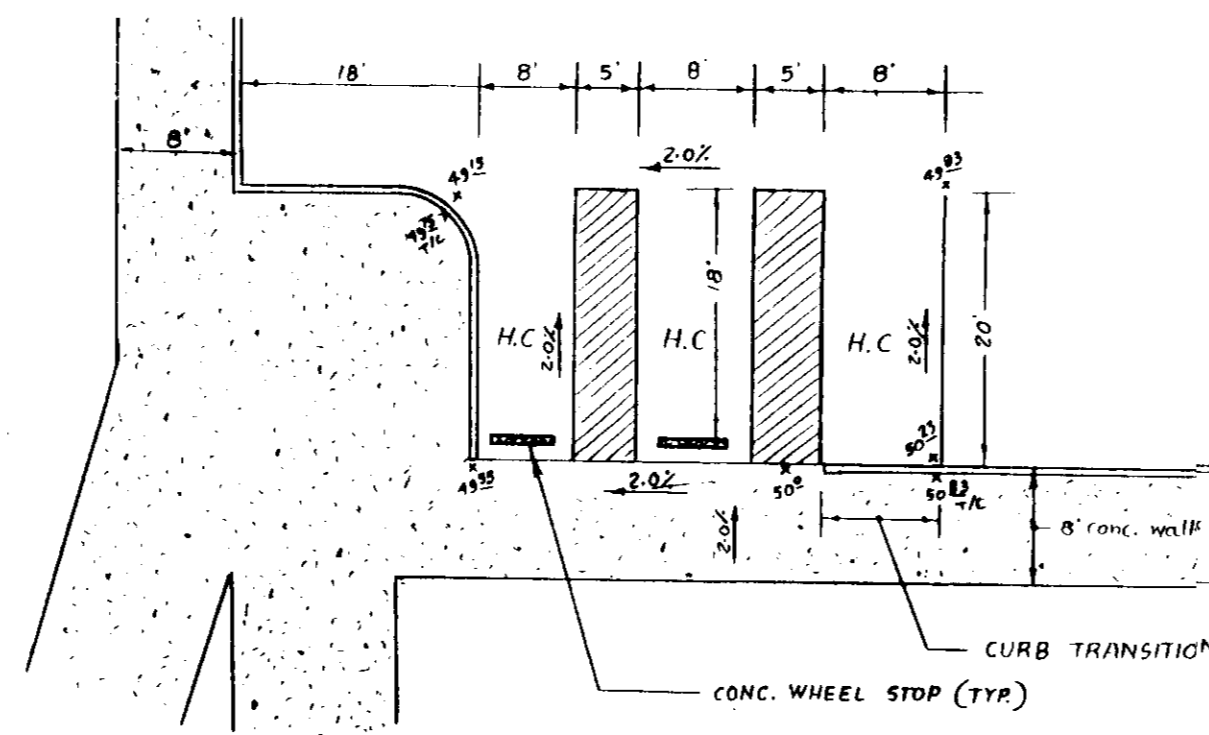
PARKING EXPANSION AND SITE AMENITIES

5 ELECTION DISTRICT HOWARD COUNTY, MARYLAND.
TAX MAP: 35 BLOCK: 6 PARCEL: 47

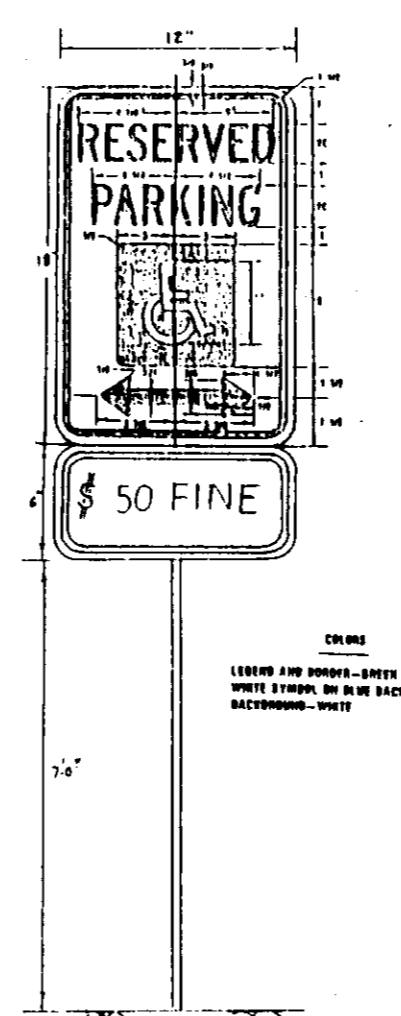
SCALE: 1" = 50' CONTRACT NO. 8211.10 DATE: 12/90 SHEET: 2 OF 9



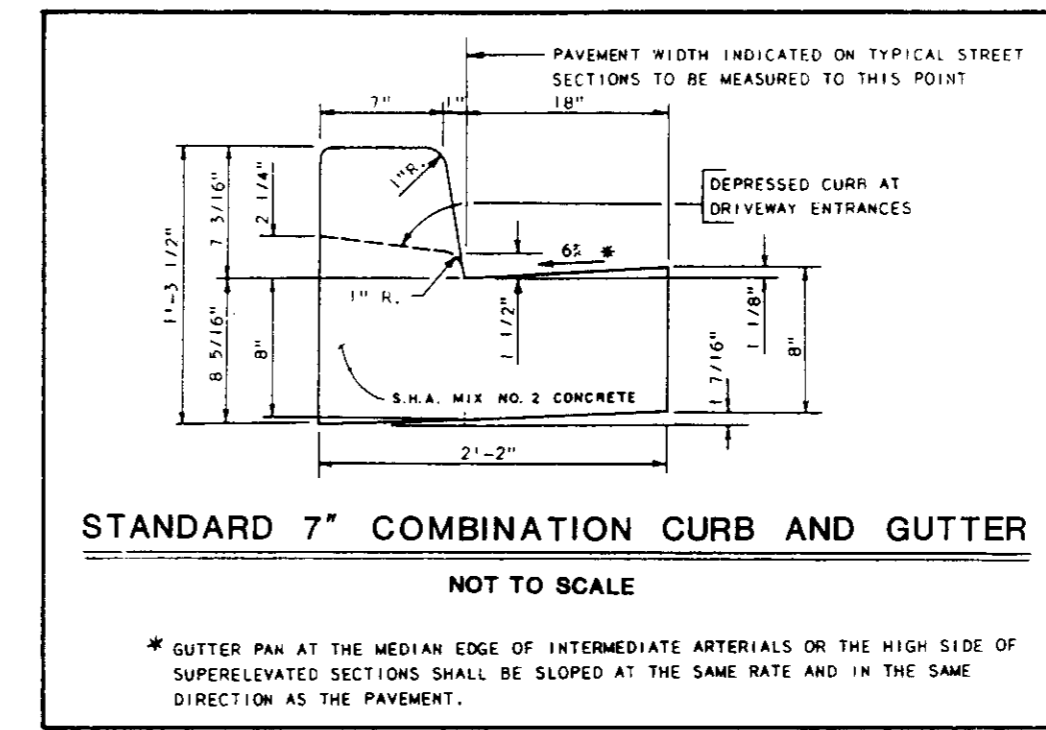
HANDICAPPED PARKING AND RAMP DETAIL
EAST PARKING LOT
NO SCALE



HANDICAPPED PARKING AND RAMP DETAIL
WEST PARKING LOT
NO SCALE



HANDICAPPED PARKING SIGN DETAIL
(NO SCALE)



STANDARD 7" COMBINATION CURB AND GUTTER
NOT TO SCALE



CONCRETE WALK DETAILS
NO SCALE

PAVING SECTION

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	TYPICAL DEPTH BIT. CONC. ALTERNATE	PAVEMENT MATERIALS	CONCRETE BASE ALTERNATE
P-1	PAVING AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCK TRAFFIC FOR APARTMENTS AND INDUSTRIAL ZONES WITH HEAVY TRUCK	4" BIT. CONC. SURFACE 4" BIT. CONC. BASE	4" BIT. CONC. SURFACE 4" BIT. CONC. BASE	4" BIT. CONC. SURFACE 4" BIT. CONC. BASE

PAVING SECTION FOR WEST PARKING LOT

PAVING SECTION FOR EAST PARKING LOT AND WEST PARKING LOT

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	TYPICAL DEPTH BIT. CONC. ALTERNATE	PAVEMENT MATERIALS	CONCRETE BASE ALTERNATE
P-2	RESIDENTIAL ZONES LOCAL, COLLEGE, BTR ALLEYS AND PRIVATE ROADS BEHIND HOUSING TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCK PER DAY	1 1/2" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4" BIT. CONC. BASE

STRUCTURE SCHEDULE

NO.	STRUCTURE NO.	TYPE	TOP EL.	INV. IN.	INV. OUT.	REMARKS
1	I-1	A-5 INLET	449.60 T/C	440.23	439.98	STD. SD 4.01
2	I-2	A-5 INLET	449.20 T/C	-----	445.44	STD. SD 4.01
3	M-1	STD PRECAST MANHOLE	431.80	426.03	420.56	STD. G 5.11
4	M-2	SHALLOW MANHOLE	437.00	432.21	432.11	STD. G 5.12
5	M-3	STD PRECAST MANHOLE	449.35	442.59	442.59	STD. G 5.11
6	ES-1	CONC. END-SECT.	-	-	418.00	STD. SD 5.52
7	M-4	HEAVY TRAFFIC MANHOLE	441.10 : *	EXIST. 434.55	EXIST. 434.45	STD. G 5.51

* Top Elev should Match the exist grade around

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Signature of Developer: *[Signature]* DATE: 5/21/91

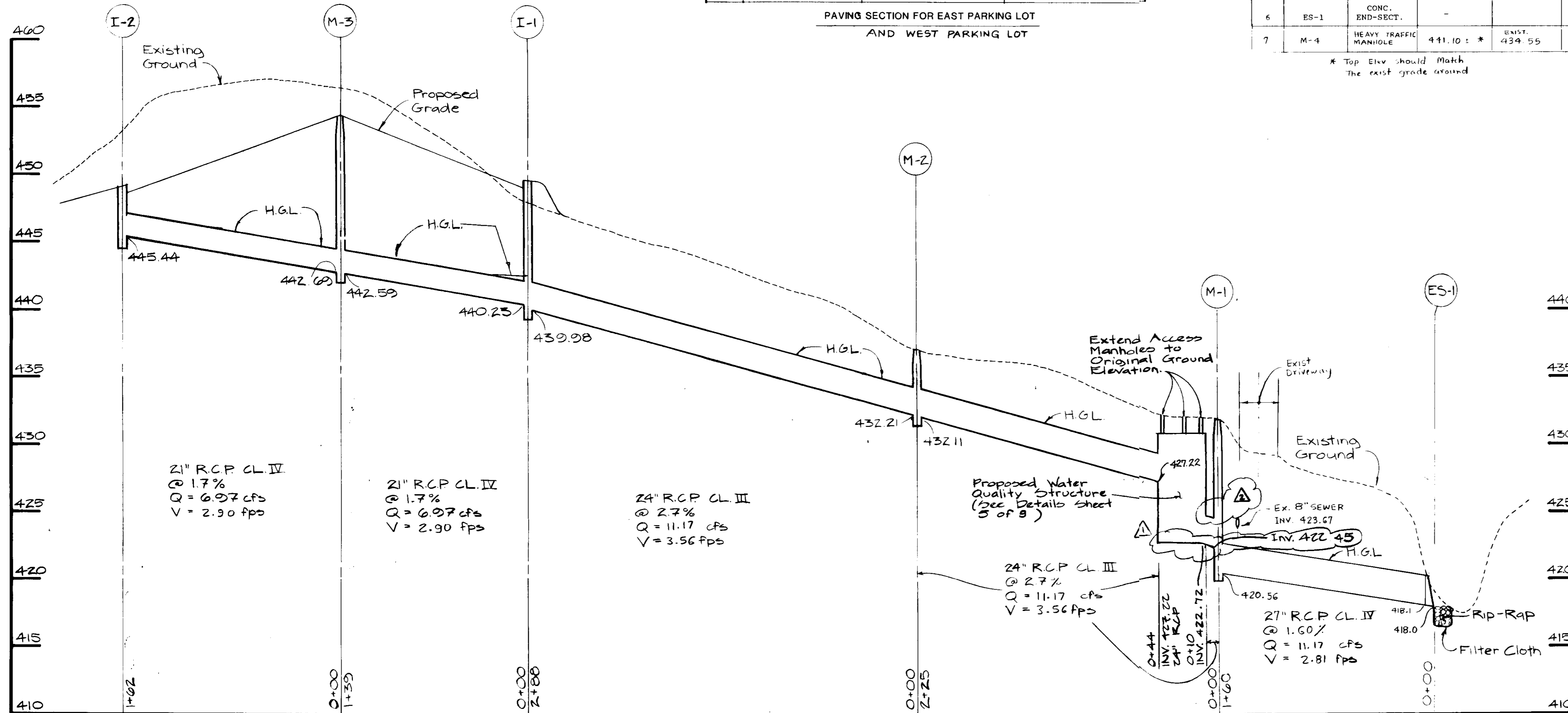
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Signature: *[Signature]* DATE: 6/5/91
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Signature: *[Signature]* DATE: 6/6/91
DIRECTOR

Signature: *[Signature]* DATE: 6/6/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: *[Signature]* DATE: 5/31/91
DIRECTOR

Signature: *[Signature]* DATE: 5/31/91
act CHIEF OF BUREAU OF ENGINEERING



STORM DRAIN PROFILE

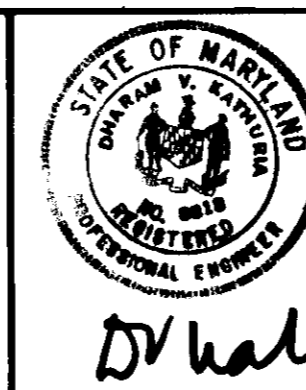
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

Project Engr. - Kirk A. Edcl

DESIGNED	DATE	DATE	BY	DESCRIPTION
K.A.P.	12/90	12/90	M.C.R.	Added Water Quality Structure to Profile
DRAWN	12/90	11-15-91	sqp	Revised water Quality Structure
CHECKED	DATE			
APPROVED	DATE			

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY MD 21043
(301) 461-9920



OWNER / DEVELOPER
DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

STORM DRAIN PROFILE AND DETAILS

HOWARD COMMUNITY COLLEGE
PARKING EXPANSION AND SITE AMENITIES

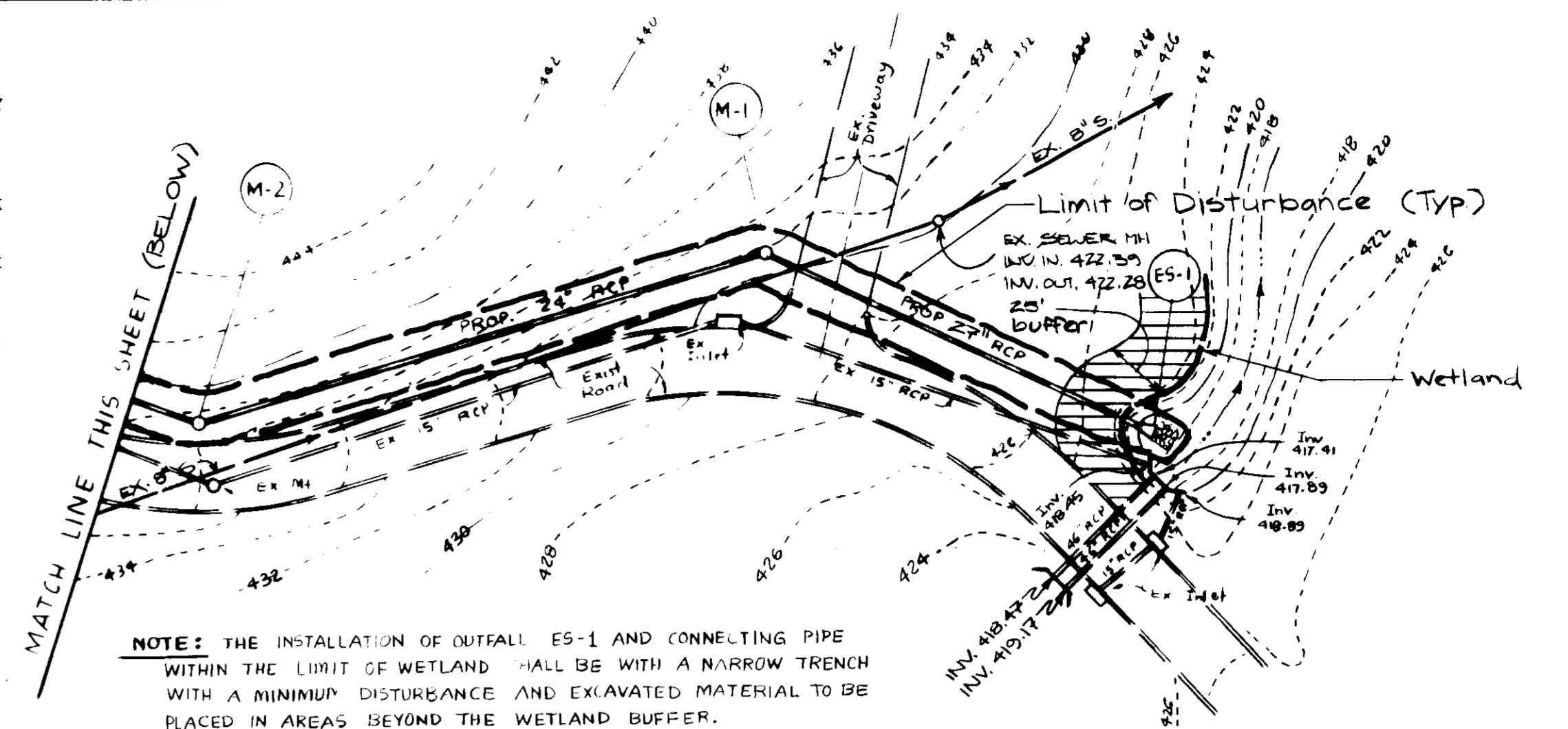
5 ELECTION DISTRICT HOWARD COUNTY, MARYLAND.
TAX MAP: 35 BLOCK: 6 PARCEL: 47

SCALE: AS SHOWN CONTRACT NO 8211.10 DATE: 12/90 SHEET: 3 OF 9

- LEGEND**
- ① EXISTING CONTOUR
 - ② PROPOSED CONTOUR
 - ③ STABILIZED CONSTRUCTION ENTRANCE
 - ④ LIMIT OF DISTURBANCE
 - ⑤ EARTH DIKE
 - ⑥ SILT FENCE
 - ⑦ INLET PROTECTION
 - ⑧ DRAINAGE DIVIDE
 - ⑨ FLOW ARROW

SEQUENCE OF CONSTRUCTION

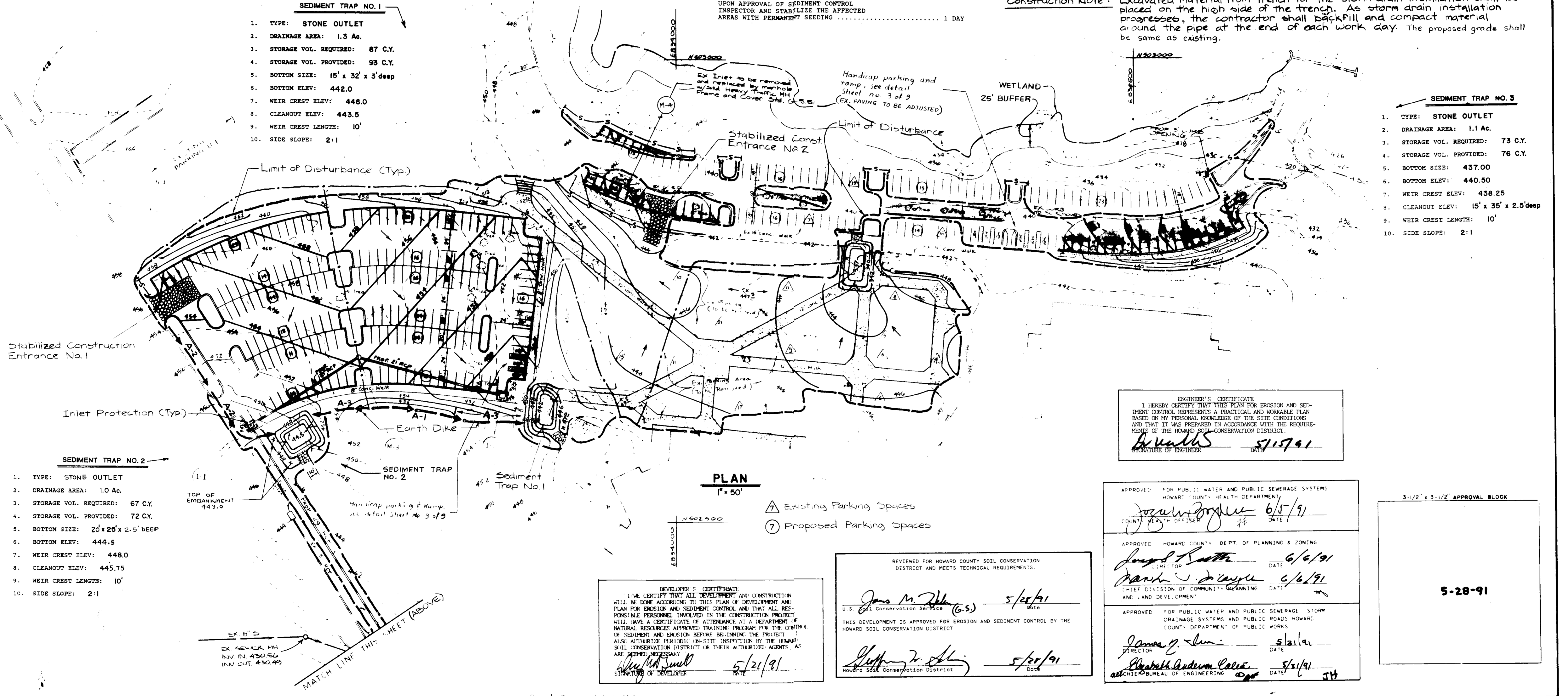
1. OBTAIN A GRADING PERMIT 1 DAY
2. INSTALL ALL SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN EXCEPT STABILIZED CONSTRUCTION ENTRANCE NO. 2 AND SILT FENCE ALONG EXISTING CONC. WALK 1 WEEK
3. ROUGH GRADE THE SITE FOR PARKING AT NORTH-WEST CORNER OF EXISTING BLDG 1 WEEK
4. FINE GRADE THE SITE AND CONSTRUCT STORM DRAIN, PARKING LOT AND SIDEWALK ADJACENT TO PARKING LOT 2 MONTHS
5. REMOVE THE SEDIMENT TRAPS AND STABILIZE ALL AFFECTED AREAS WITH PERMANENT SEEDING 2 DAYS
6. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE NO. 2, SILT FENCE ALONG CONC. WALK AND SEDIMENT TRAP NO. 3 3 DAYS
7. CLEAR AND GRUB THE SITE, NORTH OF EXISTING BUILDING, INCLUDING EXISTING PARKING LOT 2 WEEKS
8. FINE GRADE THE SITE AND CONSTRUCT PARKING LOT AND CONC. WALKS AS SHOWN ON PLAN 1 MONTH
9. STABILIZE THE SITE WITH PERMANENT SEEDING 2 DAYS
10. REMOVE ALL SEDIMENT CONTROL DEVICES UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR AND STABILIZE THE AFFECTED AREAS WITH PERMANENT SEEDING 1 DAY



Construction Note: Excavated material from trench for the storm drain installation shall be placed on the high side of the trench. As storm drain installation progresses, the contractor shall backfill and compact material around the pipe at the end of each work day. The proposed grade shall be same as existing.

- SEDIMENT TRAP NO. 1**
1. TYPE: STONE OUTLET
 2. DRAINAGE AREA: 1.3 AC.
 3. STORAGE VOL. REQUIRED: 87 C.Y.
 4. STORAGE VOL. PROVIDED: 93 C.Y.
 5. BOTTOM SIZE: 15' x 32' x 3' DEEP
 6. BOTTOM ELEV: 442.0
 7. WEIR CREST ELEV: 446.0
 8. CLEANOUT ELEV: 443.5
 9. WEIR CREST LENGTH: 10'
 10. SIDE SLOPE: 2:1

- SEDIMENT TRAP NO. 3**
1. TYPE: STONE OUTLET
 2. DRAINAGE AREA: 1.1 AC.
 3. STORAGE VOL. REQUIRED: 73 C.Y.
 4. STORAGE VOL. PROVIDED: 76 C.Y.
 5. BOTTOM SIZE: 437.00
 6. BOTTOM ELEV: 440.50
 7. WEIR CREST ELEV: 438.25
 8. CLEANOUT ELEV: 15' x 35' x 2.5' DEEP
 9. WEIR CREST LENGTH: 10'
 10. SIDE SLOPE: 2:1



PLAN
1" = 50'

- △ Existing Parking Spaces
- Proposed Parking Spaces

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
D. Wallis
SIGNATURE OF ENGINEER DATE 5/17/91

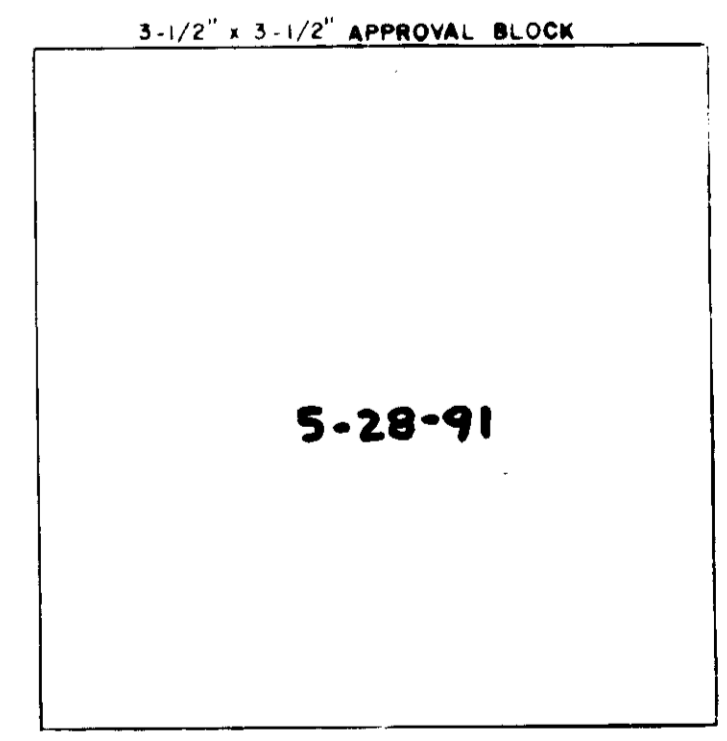
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Jozelle J. ... 6/5/91
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR DATE 6/6/91
Frank J. ... 6/6/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James G. ... 5/21/91
DIRECTOR DATE
Elizabeth Anderson Collier 5/21/91
CHIEF BUREAU OF ENGINEERING DATE JH

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AS A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEING THE PROJECT. I ALSO AUTHORIZE FEASIBLE ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
Walter ... 5/21/91
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Jane M. ... 5/25/91
U.S. Soil Conservation Service DATE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen ... 5/21/91
HOWARD SOIL CONSERVATION DISTRICT DATE



DESIGNER			REVISIONS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/90	K.A.P.				
12/90	M.C.R.				
DATE					
DATE					

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLCOTT CITY MD 21043
(301) 461-9920

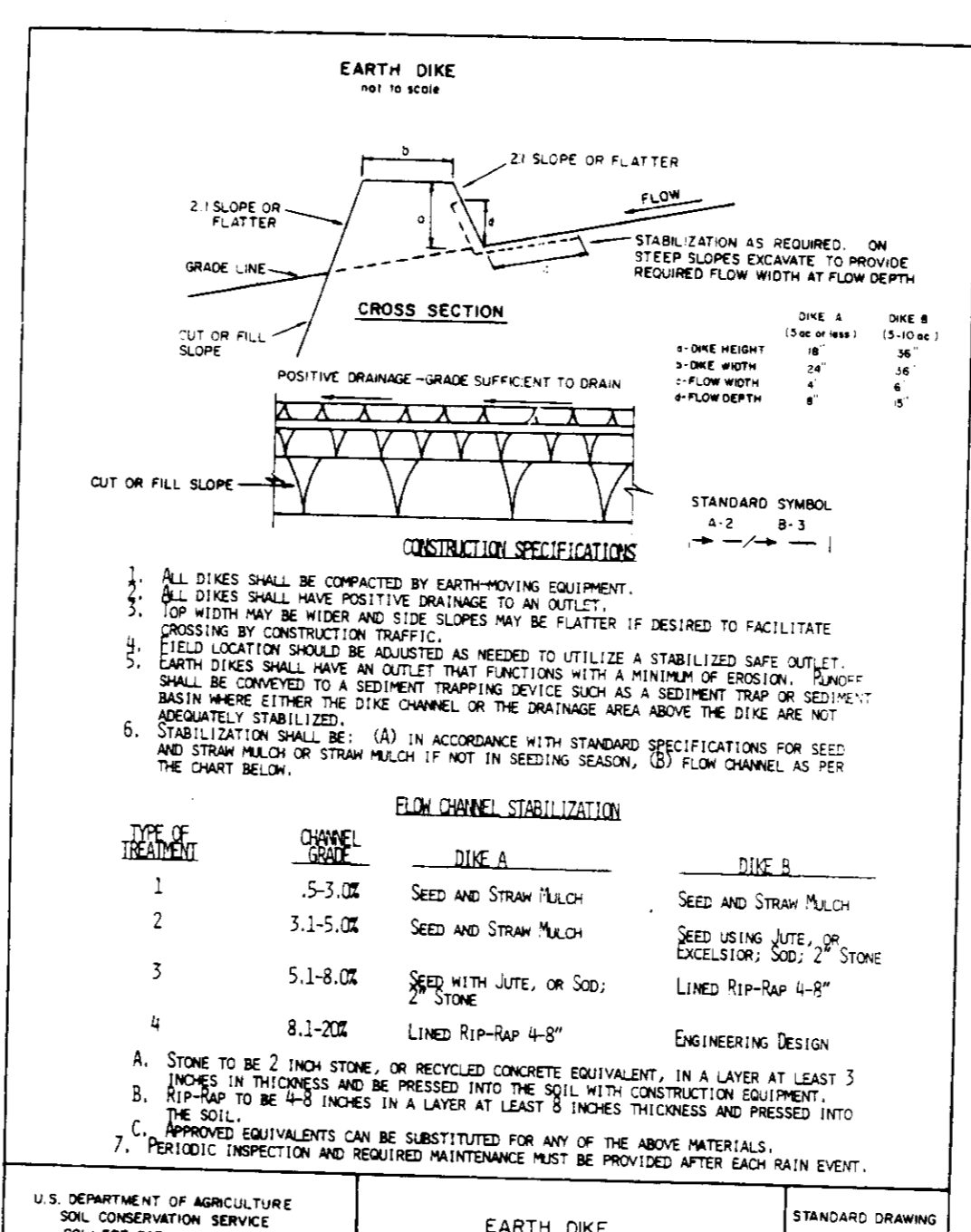
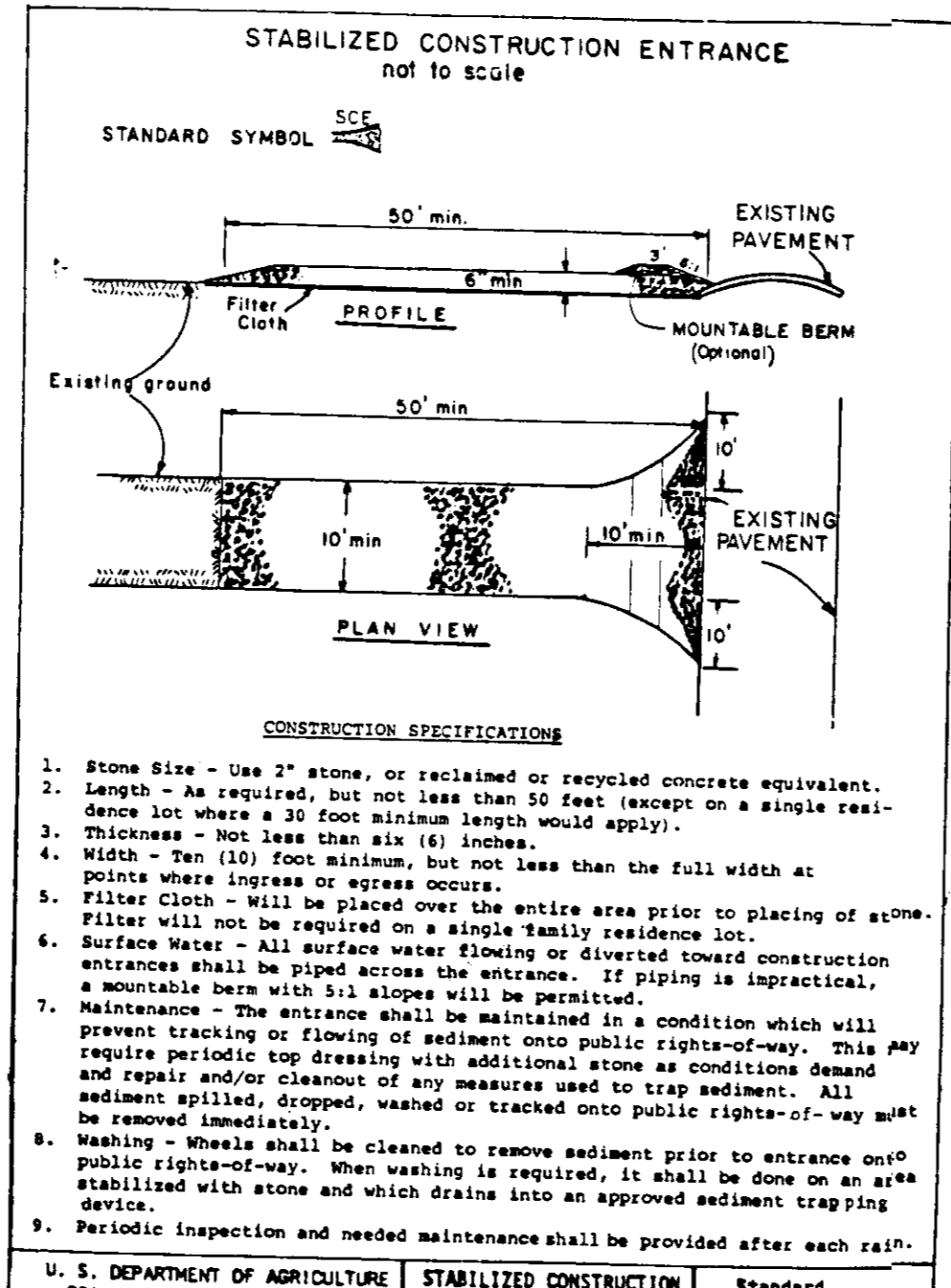
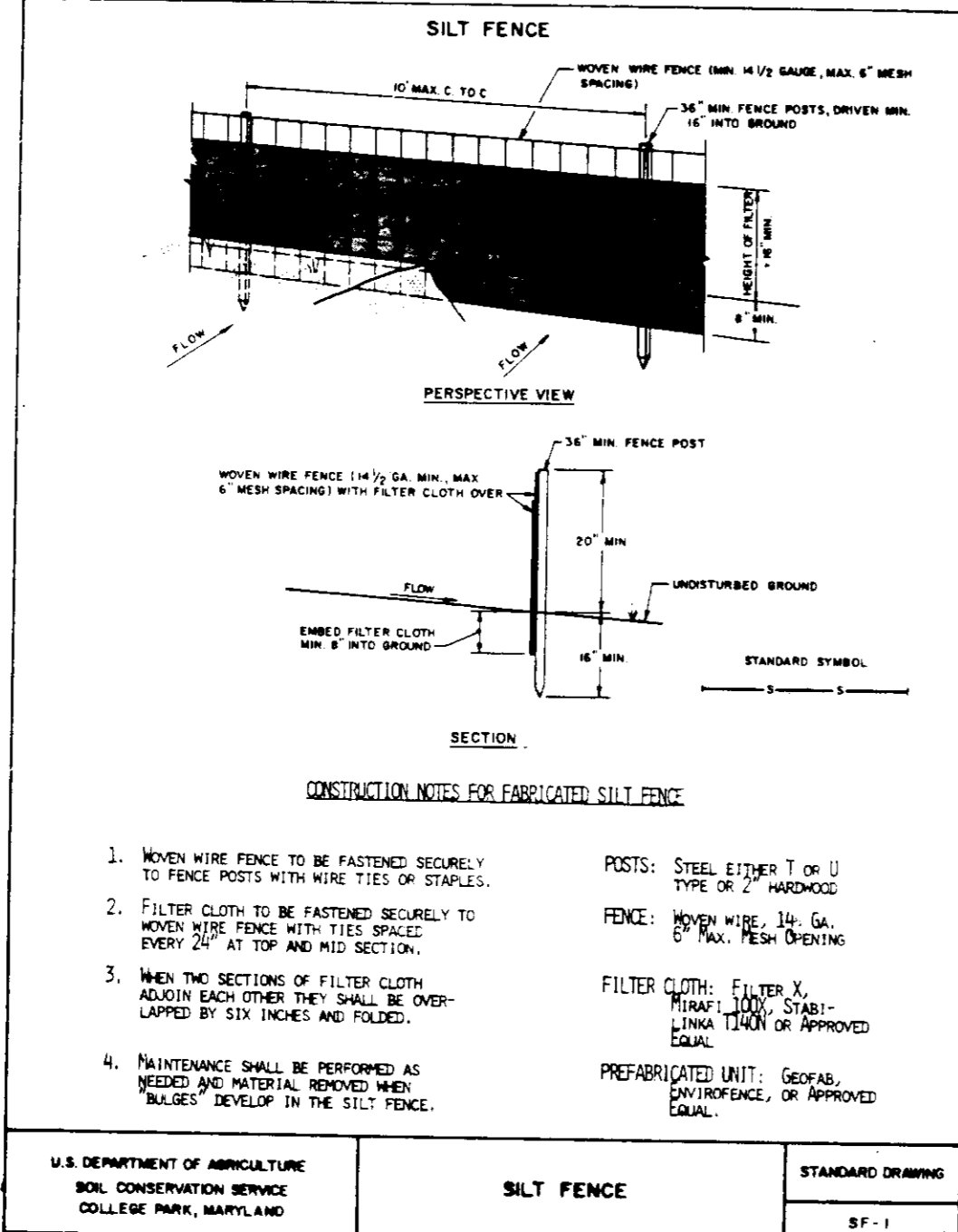


OWNER / DEVELOPER
DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

DRAINAGE AREA MAP / SEDIMENT & EROSION CONTROL PLAN
HOWARD COMMUNITY COLLEGE
PARKING EXPANSION AND SITE AMENITIES
6 ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP: 35 BLOCK: 6 PARCEL: 47
SCALE: 1" = 50' CONTRACT NO 8211.10 DATE: 12/90 SHEET: 4 OF 9

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 of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51) and (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 accordance with this plan until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 - Total Area of Site: 119.6 Acres
 - Area Disturbed: 5.62 Acres
 - Area to be roofed or paved: 2.7 Acres
 - Area to be vegetatively stabilized: 2.33 Acres
 - Total Cut: 10,400 Cu. yds
 - Offsite waste/borrow area location: As approved site by HSCD
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

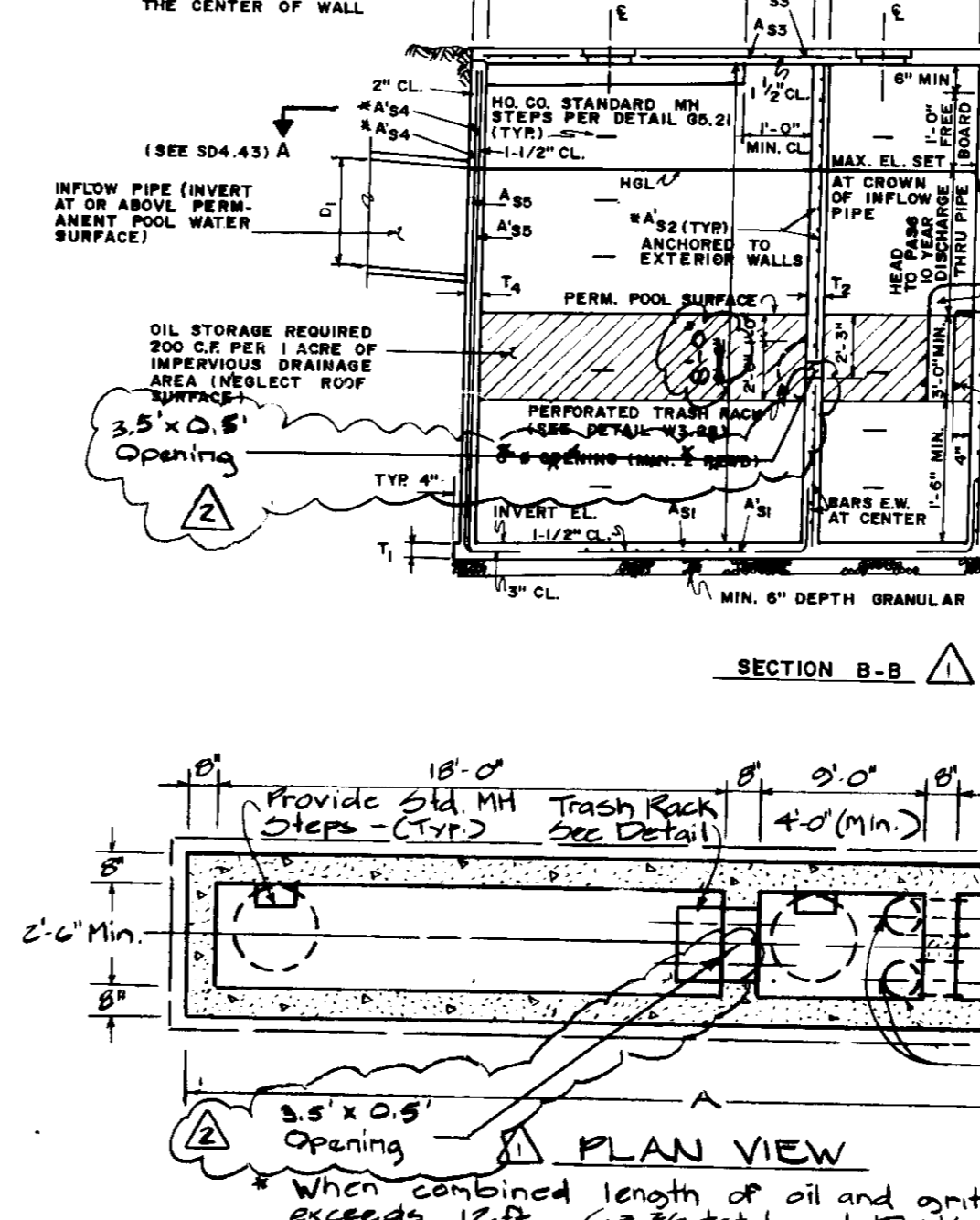
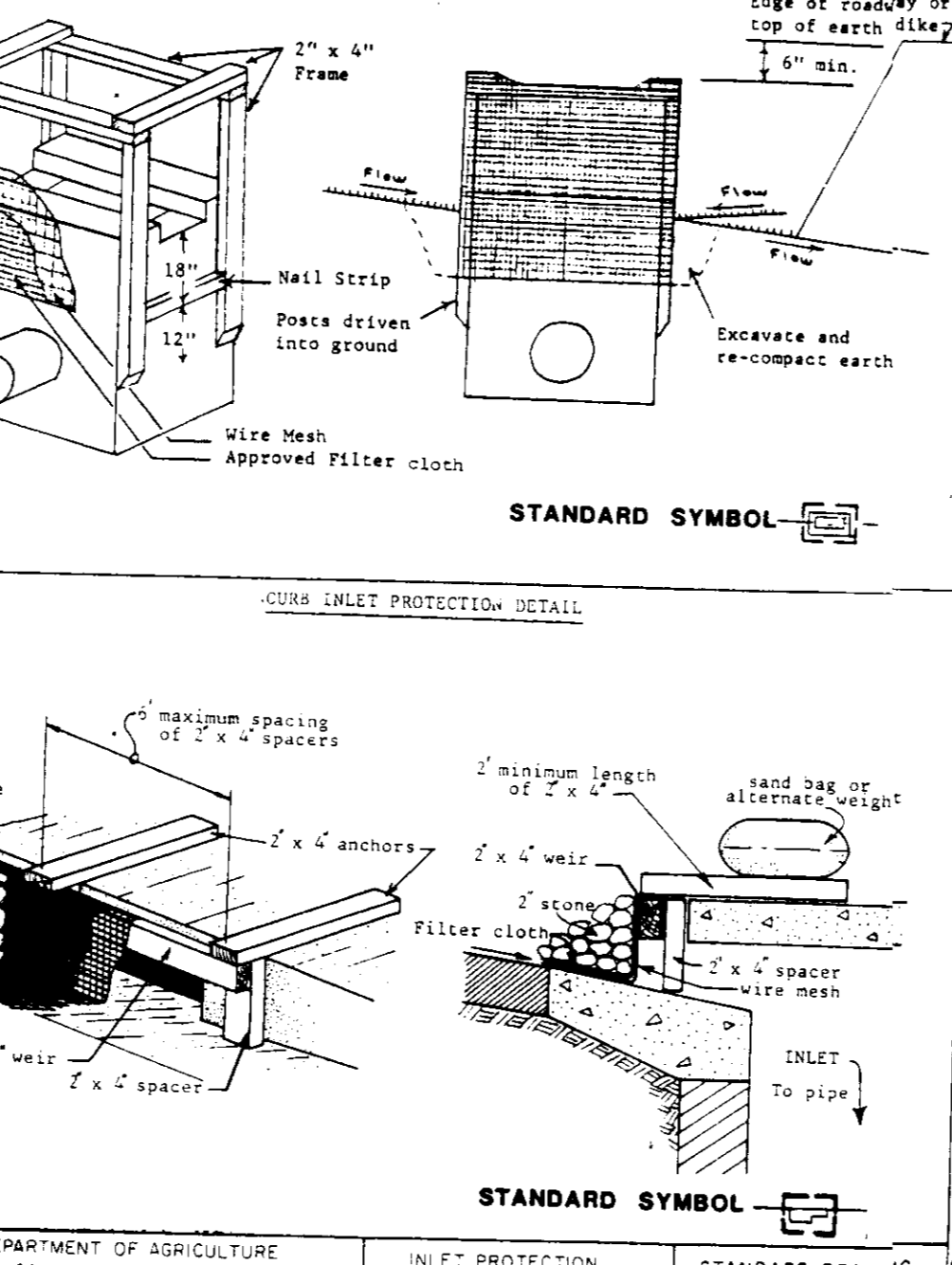
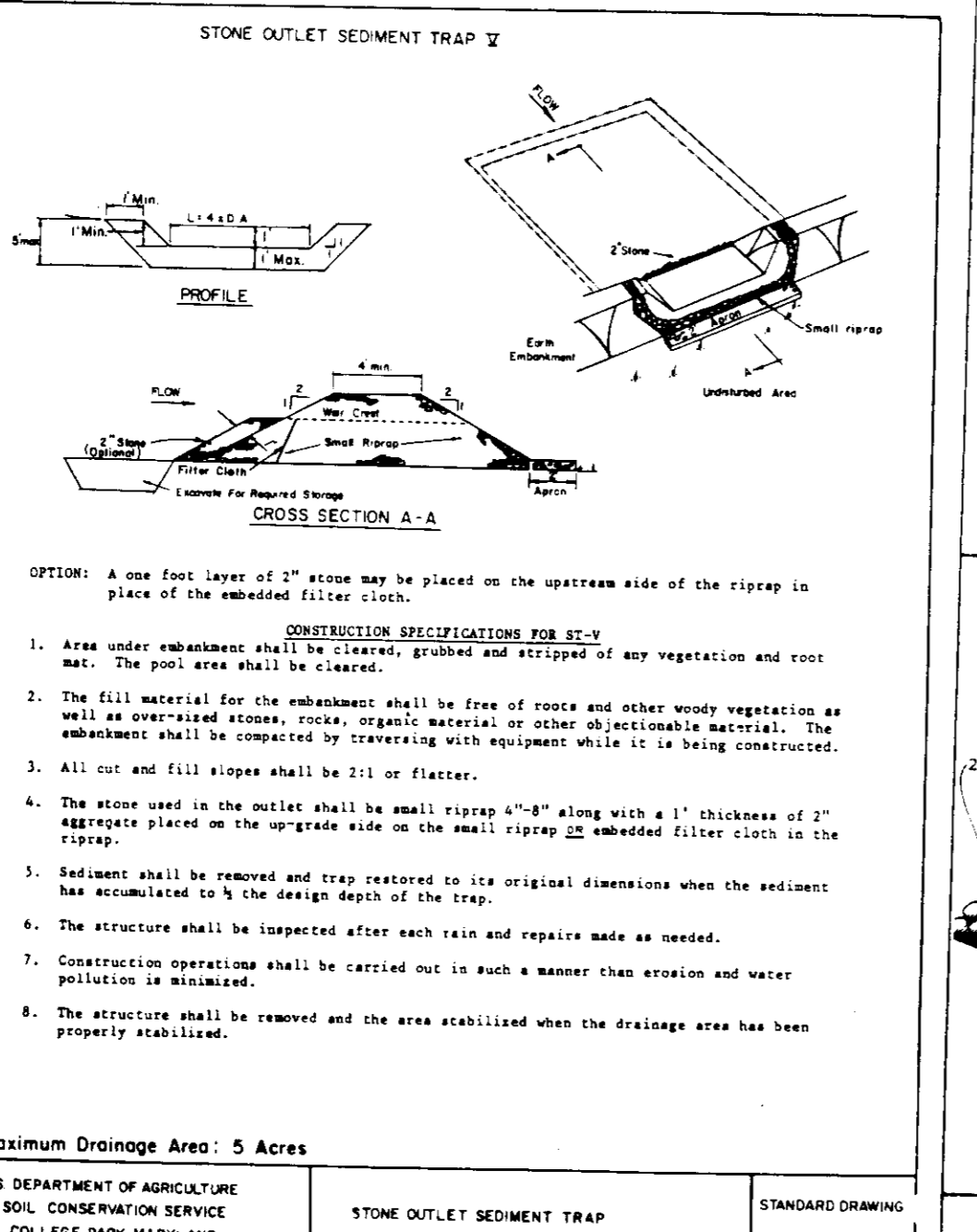
Dr. Dwight Burrill
SIGNATURE OF ENGINEER
DATE: 5/15/91

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

James M. Zelen
SIGNATURE OF DEVELOPER
DATE: 5/21/91

- PERMANENT SEEDING NOTES**
- Seeded Preparation:** Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** Use one of the following schedules:
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 square ft.) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 square ft.).
 - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Narrow or disc into upper three inches of soil.
- Seeding:** For the periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 square ft.) of ureaform fertilizer. During the period of October 16 through February 28, protect the site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 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 unrotted 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 unrotted 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**
- Seeded Preparation:** Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)
- Seeding:** For periods March 1 through April 30 and from August 15 through November 15, seed with 2 1/2 lbs. per acre of annual ryegrass (2.2 lbs./1000 sq. ft.) For the period November 16 through February 28, protect the site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible, in the spring or use sod.
- Mulching:** Apply 1 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 mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of unrotted asphalt on flat areas. On slopes, 8 ft. or higher use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.



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

James M. Zelen
COUNTY HEALTH OFFICER
DATE: 6/5/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

James M. Zelen
DIRECTOR
DATE: 6/6/91

Michael J. Wynn
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 6/6/91

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

James M. Zelen
DIRECTOR
DATE: 5/31/91

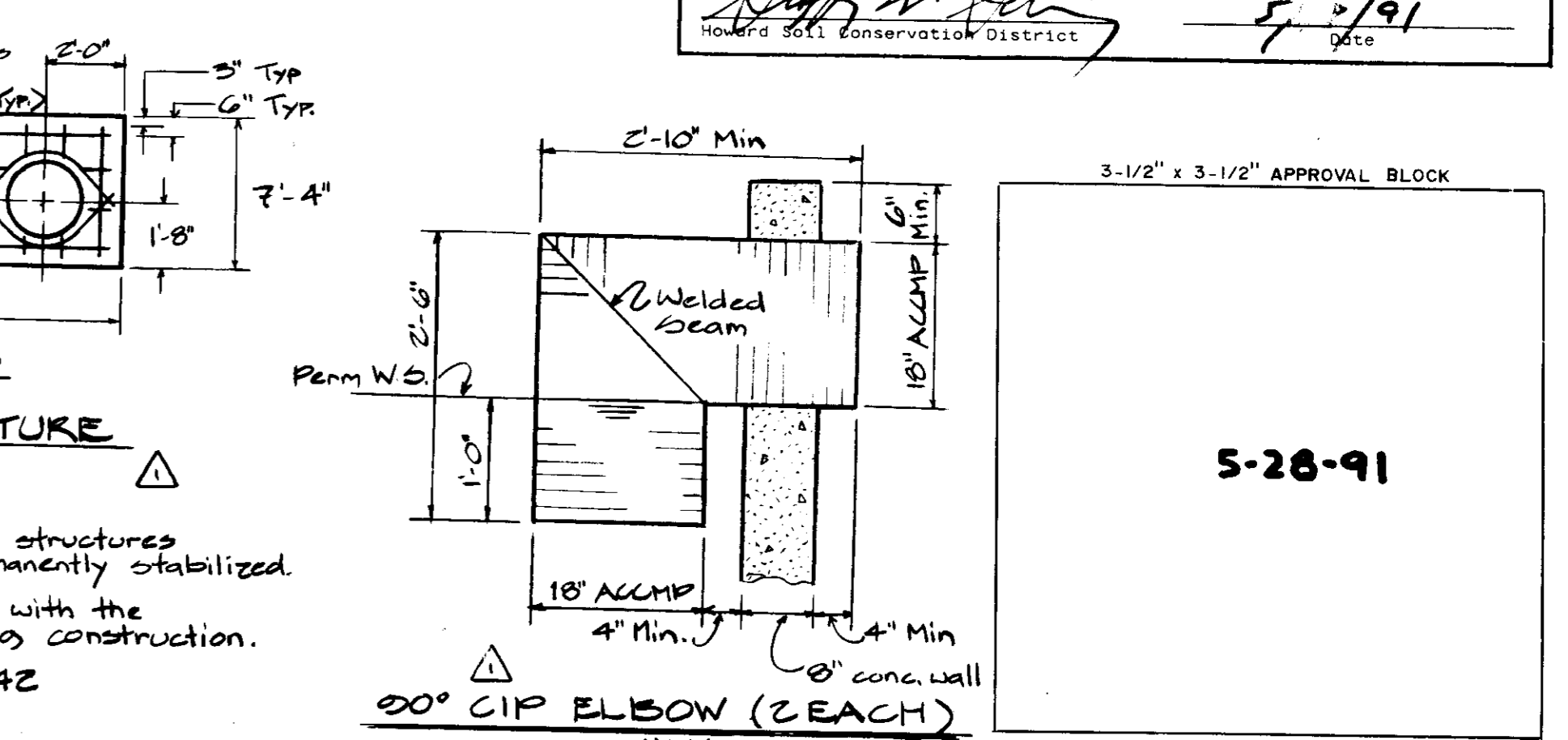
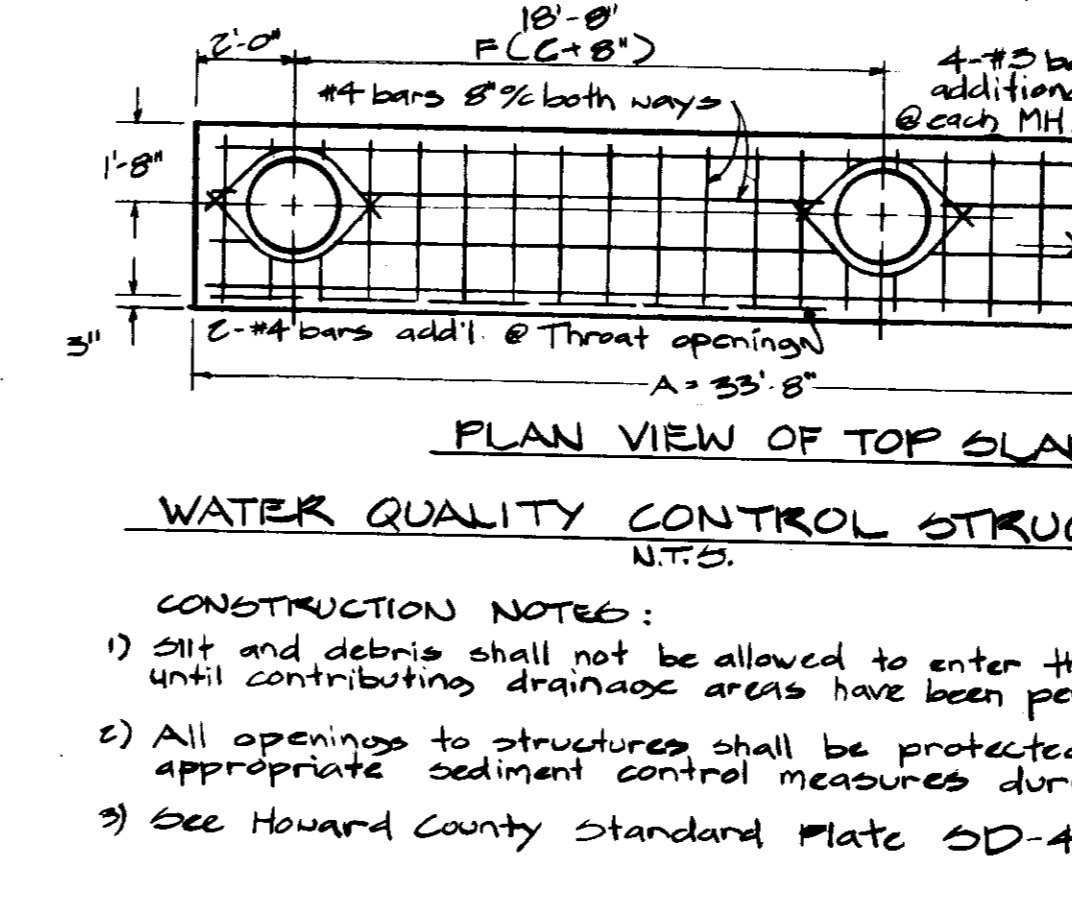
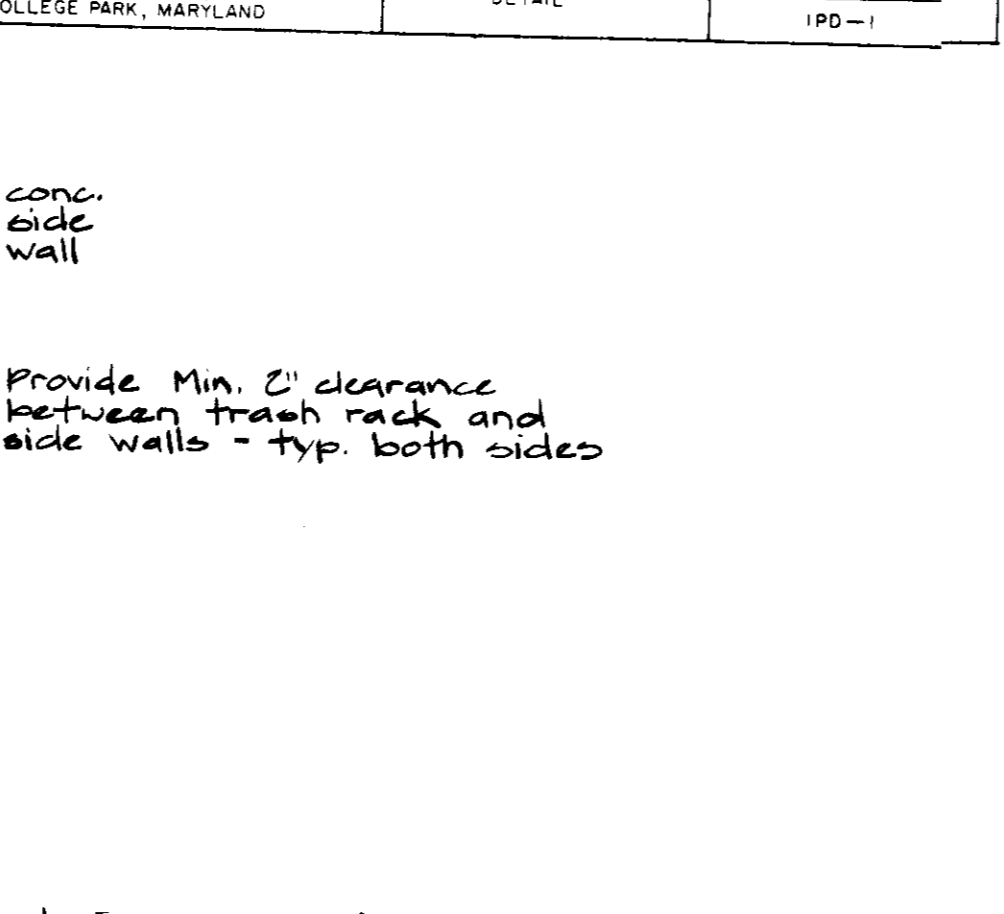
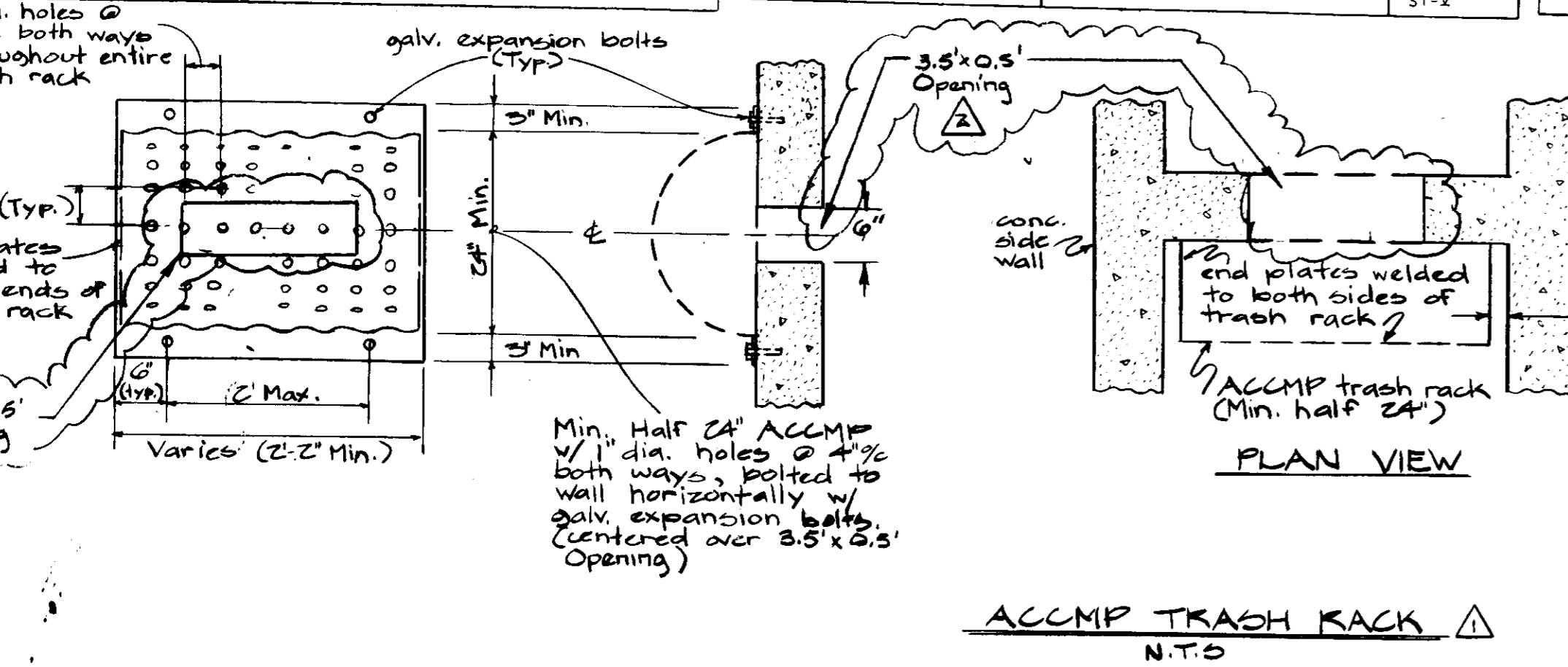
Elizabeth Radman Kalca
CHIEF BUREAU OF ENGINEERING
DATE: 5/31/91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Zelen
U.S. Soil Conservation Service
DATE: 5/28/91

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

Dr. Dwight Burrill
HOWARD SOIL CONSERVATION DISTRICT
DATE: 5/28/91



REVISIONS

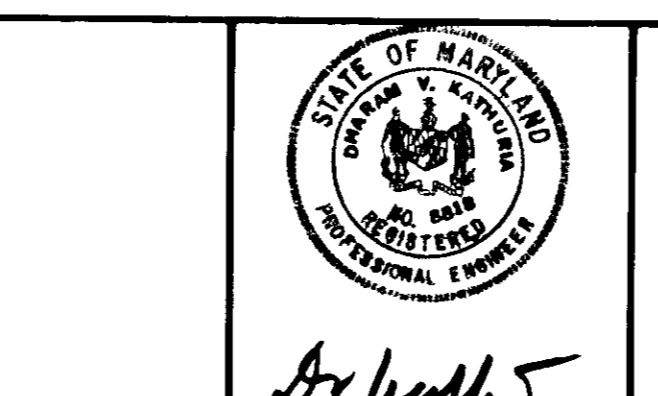
DESIGNED	DATE	BY	DESCRIPTION
K.A.P.	12/90		
M.C.R.	12/90	9-21-91 MCR	Added Water Quality Structure Notes & Details, Min 24" to 30" Details.
		11-15-91 SSP	Revised Water Quality Structure Details.

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS

3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD 21043
(301) 461-9920

Project Engr. - Kiril A. Pald



OWNER / DEVELOPER

DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

SEDIMENT CONTROL NOTES AND DETAILS

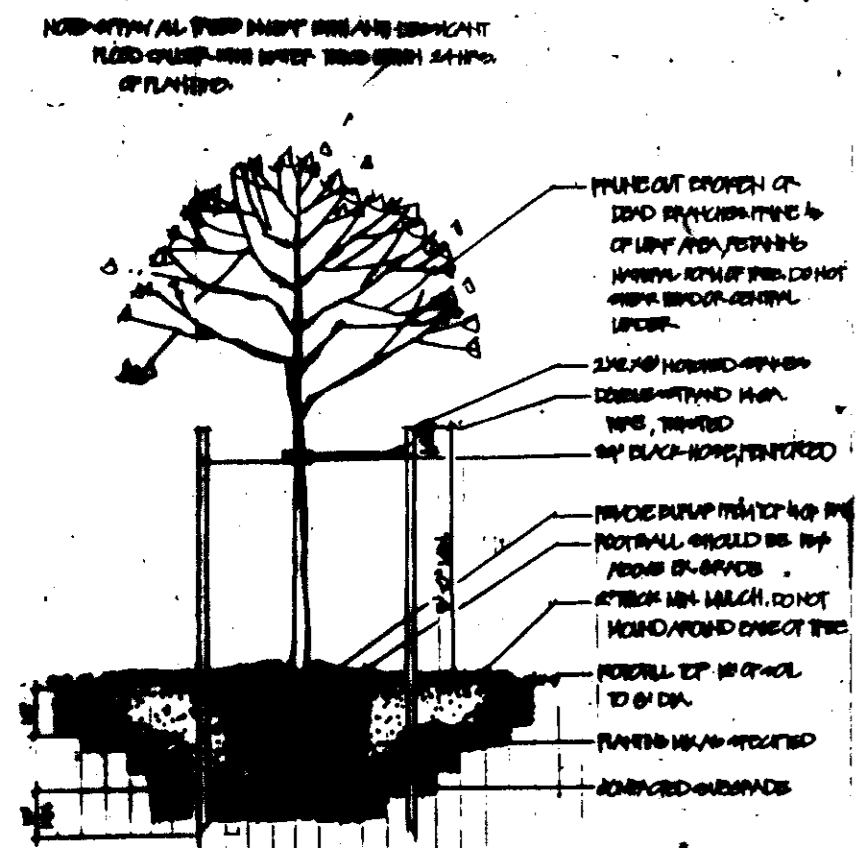
HOWARD COMMUNITY COLLEGE

PARKING EXPANSION AND SITE AMENITIES

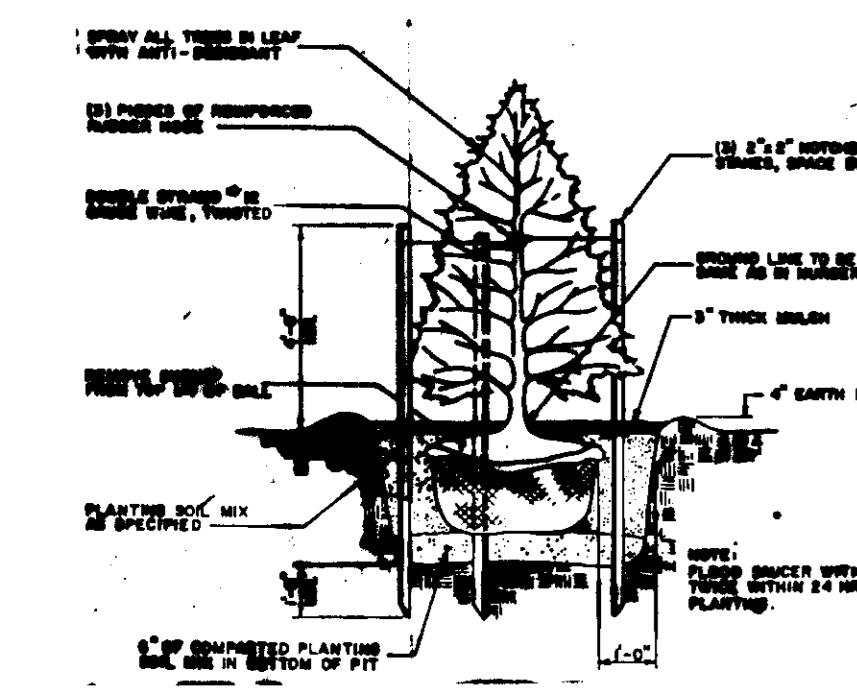
5 ELECTION DISTRICT	HOWARD COUNTY,	MARYLAND,
TAX MAP: 35	BLOCK: 6	PARCEL: 47

SCALE: AS SHOWN CONTRACT NO. 8211.10 DATE: 12/90 SHEET: 5 OF 9

SDP-91-88



Tree Planting Detail Not to Scale



Shrub Planting Detail Not to Scale



Evergreen Planting Detail Not to Scale

TYPE OF LIGHTING FIXTURES

Luminaires & Poles

Parking Area - West Lot

- Yoke mounted, square sharp cut off type
1000 Watt metal halide lamp type V distribution.
Dark bronze powder coat finish
18 ft. square tapered steel pole

Walkways

- Yoke mounted, square sharp cut off type
175 Watt metal halide lamp type III distribution
Dark bronze powder coat finish
12 ft. square straight aluminum pole
(Existing pole cut off lights will be evaluated for reuse)

Existing Pole Luminaires at east parking lot (both sides) are to remain.

Plant List

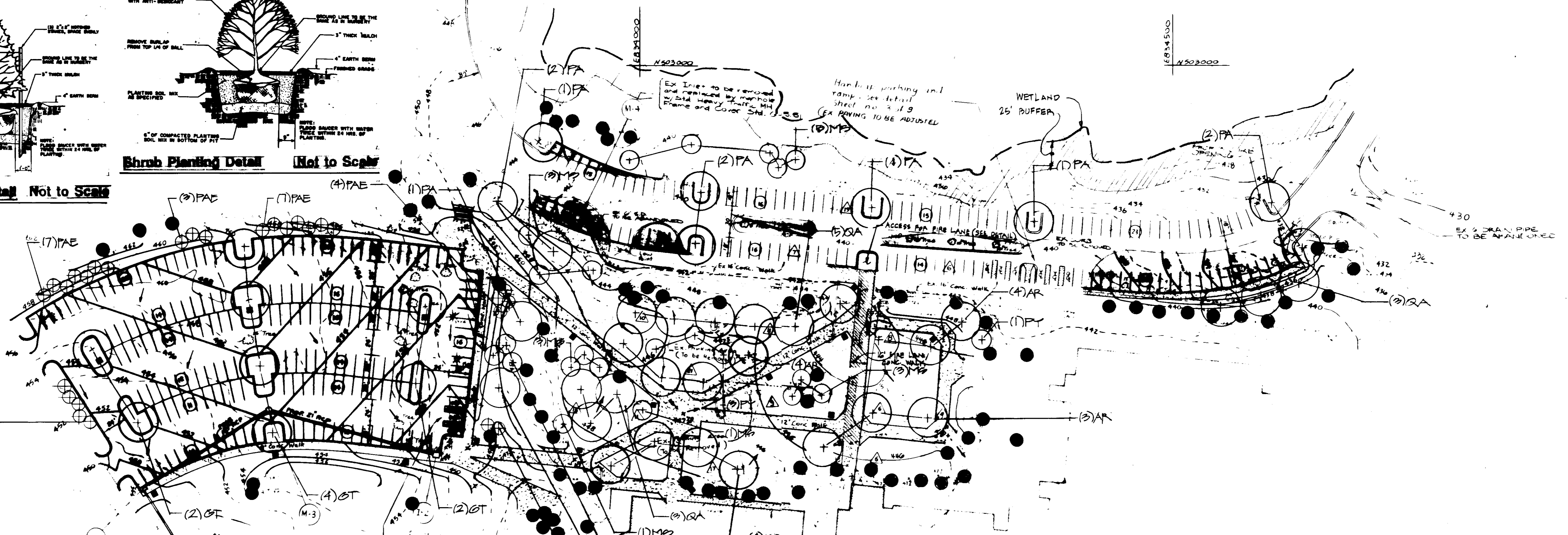
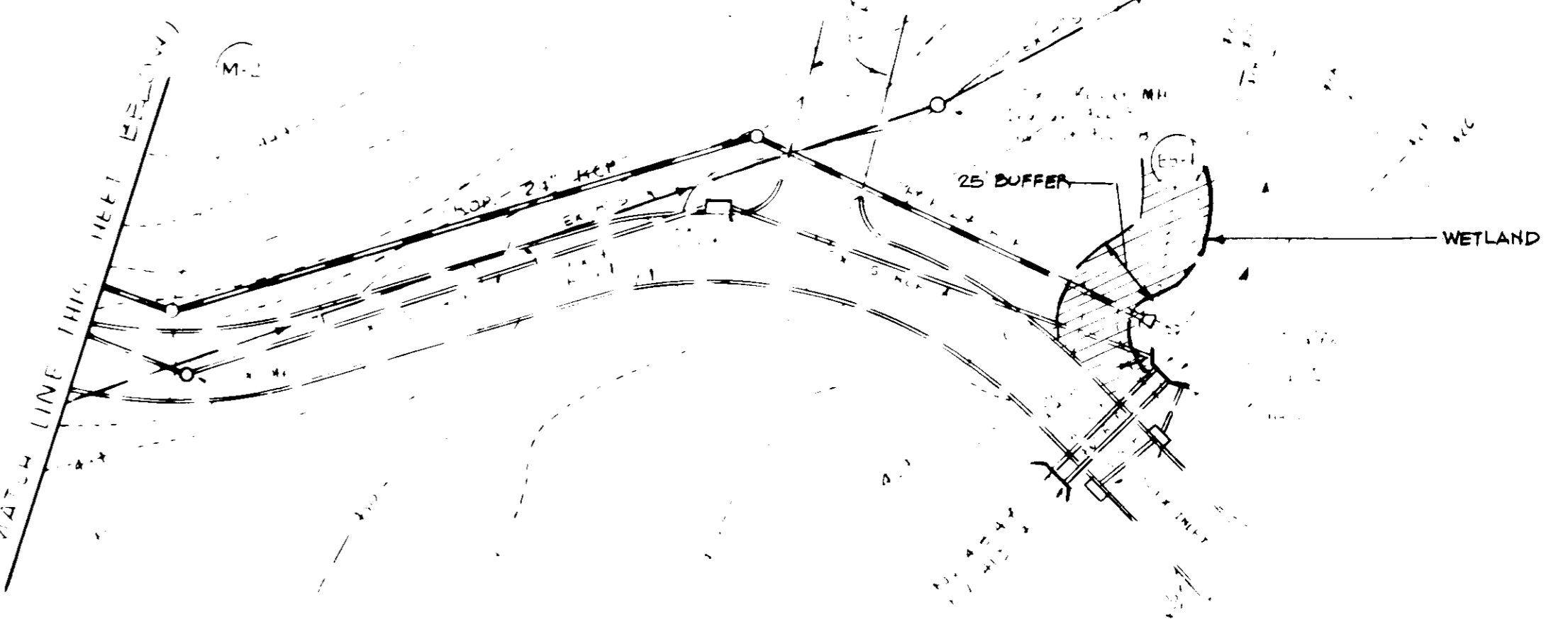
KEY	QUAN	BOTANICAL NAME	COMMON NAME	SIZE/COND. SPACING	ESPECIATION
Major Deciduous Trees					
AR	15	Acer rubrum	"October Glory"	2-1/2" J B & B	PAE 28
GT	8	Gleditsia triacanthos inermis	Thornless Honeylocust	2-1/2" J cal. B & B	
PA	11	Pistacia acerifolia	London Planetree	2-1/2" J cal. B & B	
QA	11	Quercus alba	White Oak	2-1/2" J cal. B & B	
Minor Deciduous Trees					
MS	18	Malus "Snowdrift"	Snowdrift crabapple	5'-6" H. B & B	
PY	7	Prunus x yedoensis	Yoshino Cherry	1-1/2" J cal. B & B	

PARKING NOTES

Existing parking spaces to be removed (including 640 spaces)
Proposed parking spaces provided (including 640 spaces)

NOTE:

- INDICATES PROPOSED LOCATION LIGHTING FIXTURE.
- INDICATES EXISTING PLANT MATERIAL TO REMAIN.



- LEGEND**
- 1 EXISTING GROUND
 - 2 PROPOSED GRADE
 - 3 EXISTING CONC. CURB & GUTTER
 - 4 PROPOSED CONC. CURB & GUTTER
 - 5 PROPOSED CONC. WALK
 - 6 EXISTING PARKING SPACES
 - 7 PROPOSED PARKING SPACES
 - 8 FLOW DIRECTION

THIS PLAN TO BE USED FOR PLANTING ONLY. SEE SITE PLAN FOR GRADING AND UTILITY INFORMATION.

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE FEDERAL SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

William F. Kirwin
SIGNATURE OF DEVELOPER DATE 5/21/91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. Soil Conservation Service

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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICIAL: *Joyce Boyd* DATE: 6/5/91

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: *James Beatty* DATE: 6/6/91
PLANNING DIVISION OF COMMUNITY PLANNING AND DEVELOPMENT: *Mark J. Taylor* DATE: 6/6/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *James J. ...* DATE: 5/31/91
at *Barabell Anderson* DATE: 5/31/91 JH

3-1/2" x 3-1/2" APPROVAL BLOCK

5-28-91

WILLIAM F. KIRWIN, INC.
Land Planning Landscape Architecture Environmental Planning
28 E. Susquehanna Avenue
Towson, MD 21204
(301) 337-0075

DESIGNED	K.A.P.	12/90	DATE	REVISIONS
DRAWN	M.C.R.	12/90	DATE	DESCRIPTION
CHECKED		DATE		
APPROVED		DATE		

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD 21043
(301) 461-9920



OWNER / DEVELOPER

DR. DWIGHT BURRILL, PRESIDENT
HOWARD COMMUNITY COLLEGE
LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-4800

Landscape Plan

HOWARD COMMUNITY COLLEGE
PARKING EXPANSION AND SITE AMENITIES

5 ELECTION DISTRICT HOWARD COUNTY, MARYLAND.
TAX MAP: 35 BLOCK: 6 PARCEL: 47

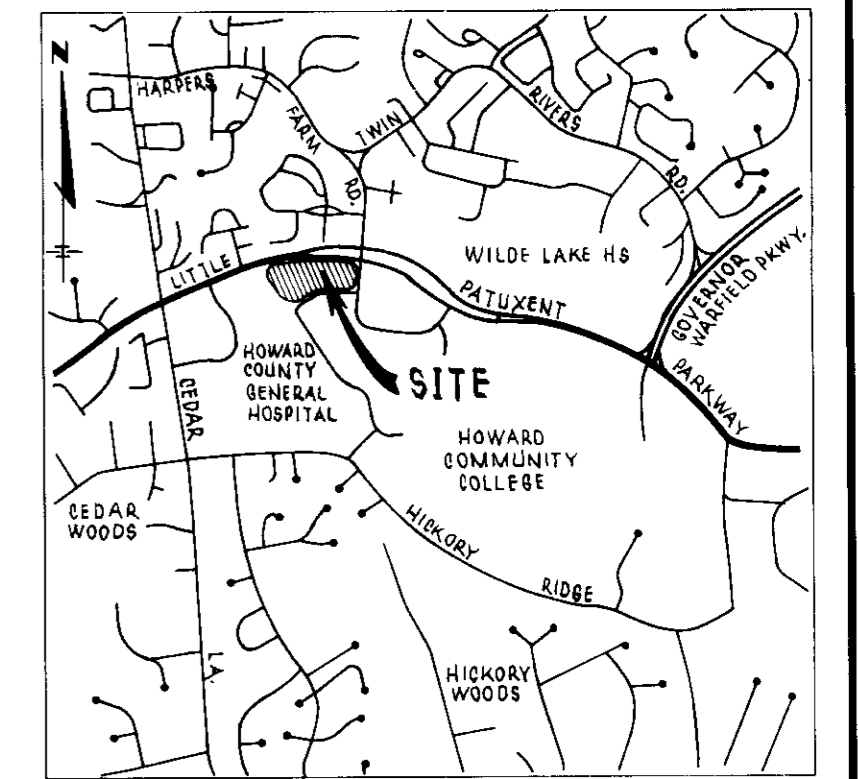
SCALE: 1" = 50' CONTRACT NO. 8211.10 DATE: 12/90 SHEET: 6 OF 9
SDP-91-88

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT
 - 1 DAY 2. INSTALL S.C.E. WITH MOUNTABLE BERM.
 - 2 DAYS 3. INSTALL SILT FENCING AND INLET PROTECTION
 - * 2 WEEKS 4. GRADE SWALES AND INSTALL STORM DRAIN CULVERTS. IMMEDIATELY SOD SWALES UPON GRADING.
 - 3 DAYS 5. FINE GRADE AND STABILIZE THE DISTURBED AREA WITH SEED AND MULCH.
 - 3 DAYS 6. WITH INSPECTOR'S APPROVAL, REMOVE SILT FENCE, INLET PROTECTION STABILIZE REMAINING DISTURBED AREA.
- * CONSTRUCTION /GRADING OF SWALES IS LIMITED TO THAT WORK WHICH CAN BE CONSTRUCTED AND STABILIZED WITHIN ONE WORKING DAY

HOWARD COMMUNITY COLLEGE

COLUMBIA CLASSIC GRAND PRIX EVENT FIELD



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,DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

- 1) PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING,APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (21 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK 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 (0.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 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 UNROTTED 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,DISKING 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.)

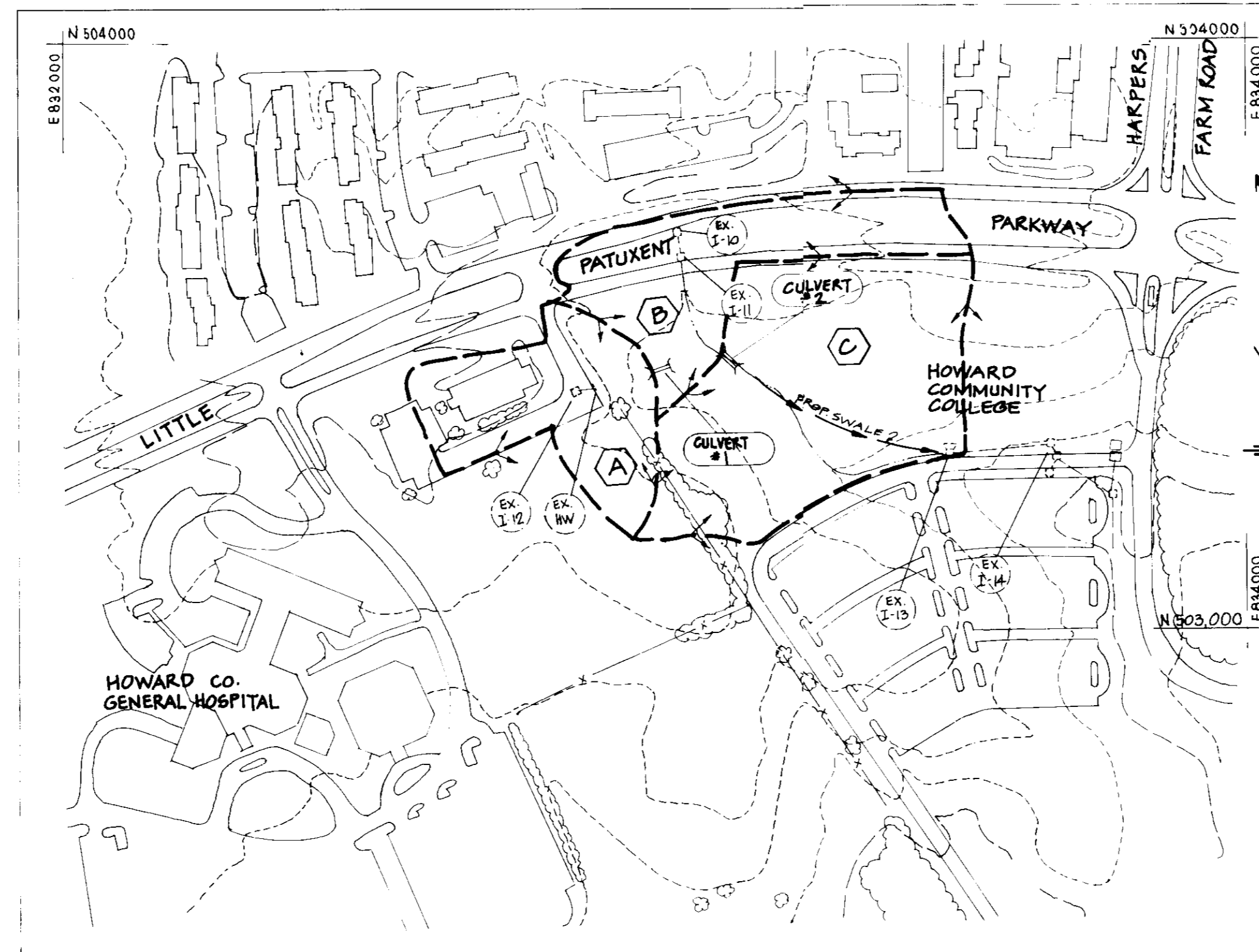
SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING - APPLY 1-1/2 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 MULCH ANCHORING TOOL OR 218 GAL PER ACRE(5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR RATE AND METHODS NOT COVERED.

NOTE:

"SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4,ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS."



AREA	ACRE	"C" FACTOR
(A)	1.10	0.71
(B)	3.21	0.50
(C)	5.97	0.10

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John W. ... 11/17/95
 Chief, Development Engineering Division Date
Anna ... 11/21/95
 Chief, Division and Land Development and Research Date
... 11/28/95
 Director Date

PURPOSE: TO PERFORM MINOR GRADING AND DRAINAGE IMPROVEMENTS TO THE GRAND PRIX FIELD.

SEDIMENT CONTROL NOTES

1. 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. (313-1855).
 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH SEC. 219 OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL.1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL,STORM DRAINAGE.
 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS (SEC.51) SOD (SEC.54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 6. 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.
 7. SITE ANALYSIS:
 TOTAL AREA OF SITE 119.6 ACRES
 AREA DISTURBED 1.96 ACRES
 AREA TO BE ROOFED OR PAVED 0 ACRES
 AREA TO BE VEGETATIVELY STABILIZED 1.96 ACRES
 TOTAL CUT 230 CU.YDS.
 TOTAL FILL 230 CU.YDS.
 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 11. ALL TRENCH MATERIAL SHOULD BE PLACED ON THE HIGHER SIDE OF THE TRENCH.
- NOTE:
 FOR SEDIMENT CONTROL DETAILS, REFER TO SHEET 9 OF 9.

GENERAL NOTES:

1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS & SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS BASED ON U.S.G.S. DATA.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
5. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL,VOLUME IV,STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION(LATEST EDITION).THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
6. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORK DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION - 531-5533
 BALTO.GAS & ELECTRIC CO.-CONTRACTOR SERVICES - 850-4620
 BALTO. GAS & ELECTRIC CO.- UNDERGROUND DAMAGE CONTROL - 787-9086
 MISS UTILITY- 1-800-257-7777
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
 CHESAPEAKE AND POTOMAC TELEPHONE CO. - 597-8585
 COLONIAL PIPELINE CO. - 795-1390
 AT&T. - 865-3803
7. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED OUTSIDE THE LIMIT OF DISTURBANCE ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

DEVELOPER'S CERTIFICATION

"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 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."

Dwight A. Burrill DATE 10-18-95
 SIGNATURE OF DEVELOPER
 DWIGHT A. BURRILL, PRESIDENT, HOWARD COMMUNITY COLLEGE

ENGINEER'S CERTIFICATE

"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 P. Robertson DATE 11/15/95
 DATE 11/15/95
 D.P.I., INC.
 507 BALTIMORE/ANNAPOLIS BLVD.
 SEVERNA PARK,MD 21146
 TEL (410)647-2727

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

Patricia Engle 11/15/95
 USDA NATURAL RESOURCES SERVICE

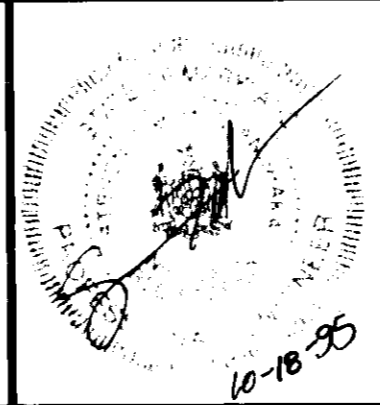
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John P. Robertson 11/15/95
 APPROVED HOWARD S.C.D. DATE

DEVELOPER:
 HOWARD COMMUNITY COLLEGE
 10901 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (410) 964-4913

DESIGNED	M.A.M.	10/95
DRAWN	R.J.S.	10/95
CHECKED	M.A.M.	10/95
APPROVED	S.T.A.	10/95

REVISIONS		
DATE	BY	DESCRIPTION

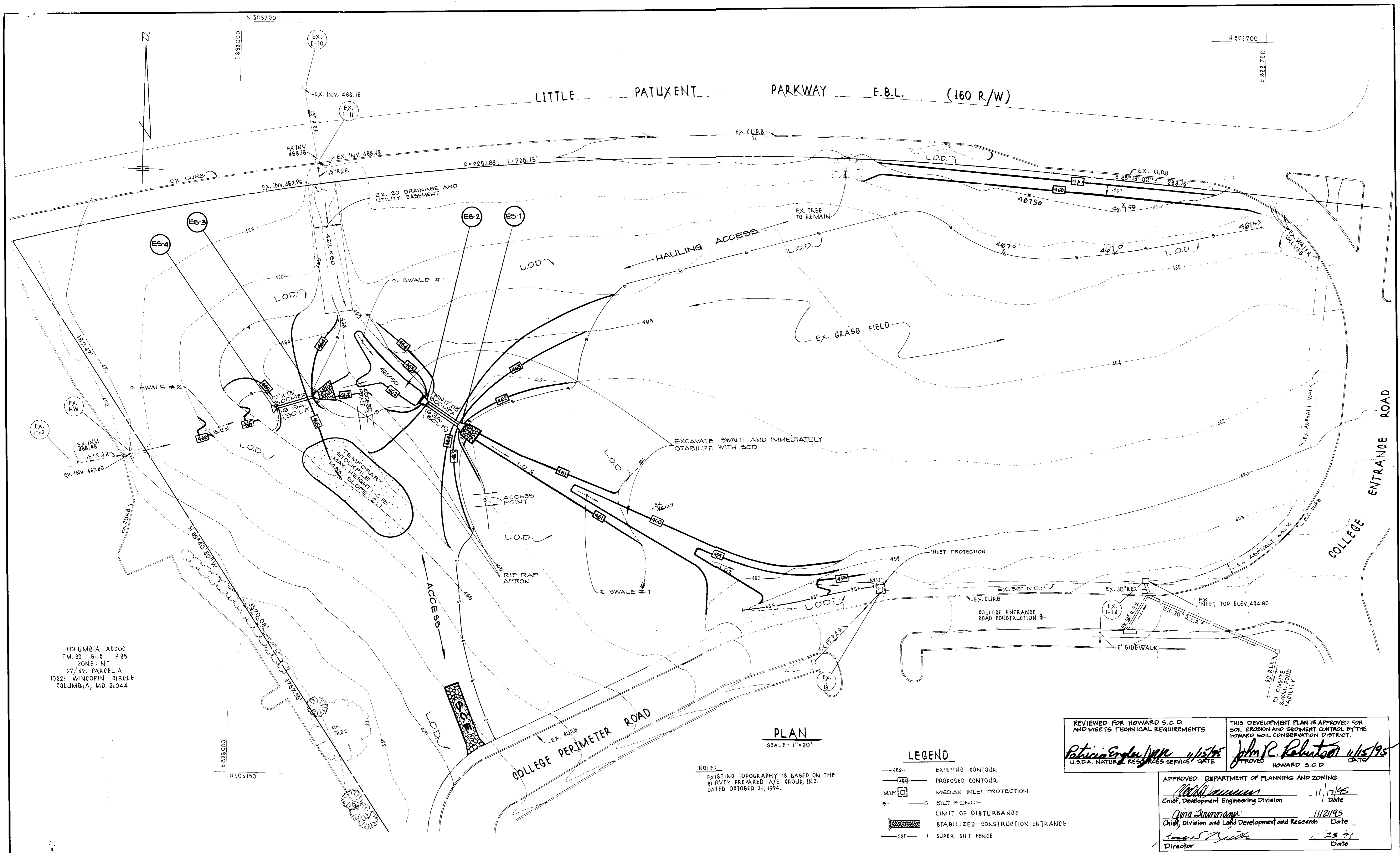
dfi CONSULTING ENGINEERS, SURVEYORS, AND LAND PLANNERS
 504 BALTIMORE/ANNAPOLIS BOULEVARD
 SEVERNA PARK, MD 21146 (410)647-2727
 FAX (410)647-7127



REVISED SITE DEVELOPMENT PLAN
 GRADING AND SEDIMENT CONTROL PLAN
 COLUMBIA CLASSIC GRAND PRIX EVENT FIELD
 HOWARD COMMUNITY COLLEGE
 SCALE: AS SHOWN T.M. 35 BL.5 P.47
 5TH ELECTION DISTRICT

SHEET
 7
 OF
 9

S.D.P. 91-88



COLUMBIA ASSOC.
 TM. 35 BL. 5 P. 95
 ZONE: NT
 27/49, PARCEL A
 10221 WINGOPIN CIRCLE
 COLUMBIA, MD. 21044

PLAN
 SCALE: 1" = 30'

NOTE:
 EXISTING TOPOGRAPHY IS BASED ON THE
 SURVEY PREPARED A/E GROUP, INC.
 DATED OCTOBER 31, 1994.

- LEGEND**
- 462--- EXISTING CONTOUR
 - 460--- PROPOSED CONTOUR
 - M.I.P. [] MEDIAN INLET PROTECTION
 - S SILT FENCE
 - [] LIMIT OF DISTURBANCE
 - [] STABILIZED CONSTRUCTION ENTRANCE
 - SSF--- SUPER SILT FENCE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
Patricia Engle 11/15/95
 U.S.D.A. NATURAL RESOURCES SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Rebuton 11/15/95
 APPROVED HOWARD S.C.D. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 11/17/95
 Chief, Development Engineering Division Date

[Signature] 11/21/95
 Chief, Division and Land Development and Research Date

[Signature] 11/23/95
 Director Date

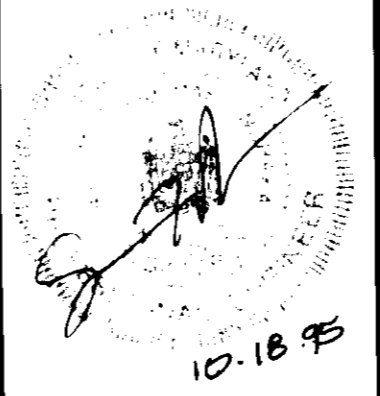
DEVELOPER:
 HOWARD COMMUNITY COLLEGE
 10901 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (410) 964-4913

DESIGNED M.A.M. 10/95
 date
 DRAWN R.J.S. 10/95
 date
 CHECKED M.A.M. 10/95
 date
 APPROVED S.T.A. 10/95
 date

REVISIONS		
DATE	BY	DESCRIPTION

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 AND LAND PLANNERS

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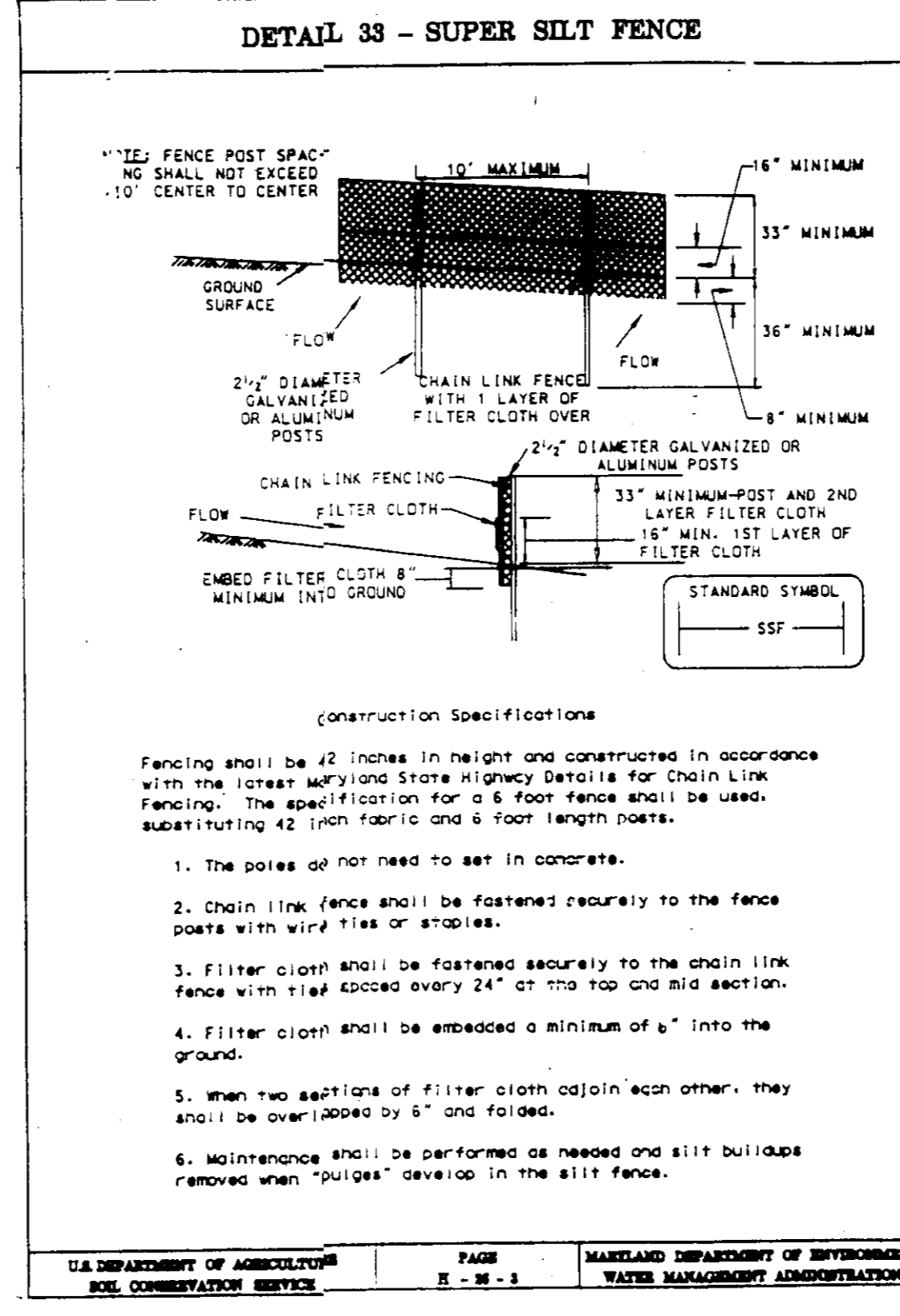
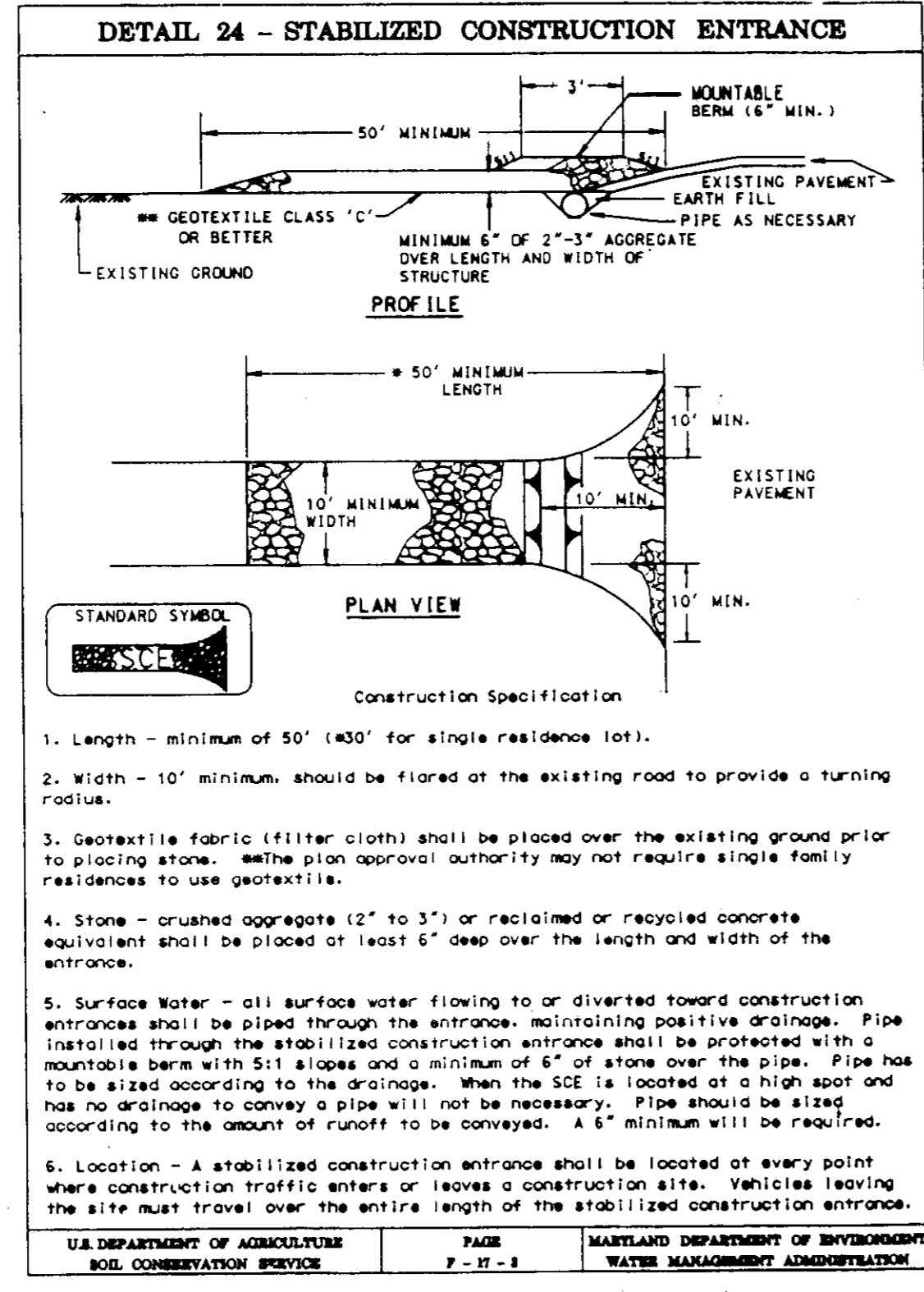
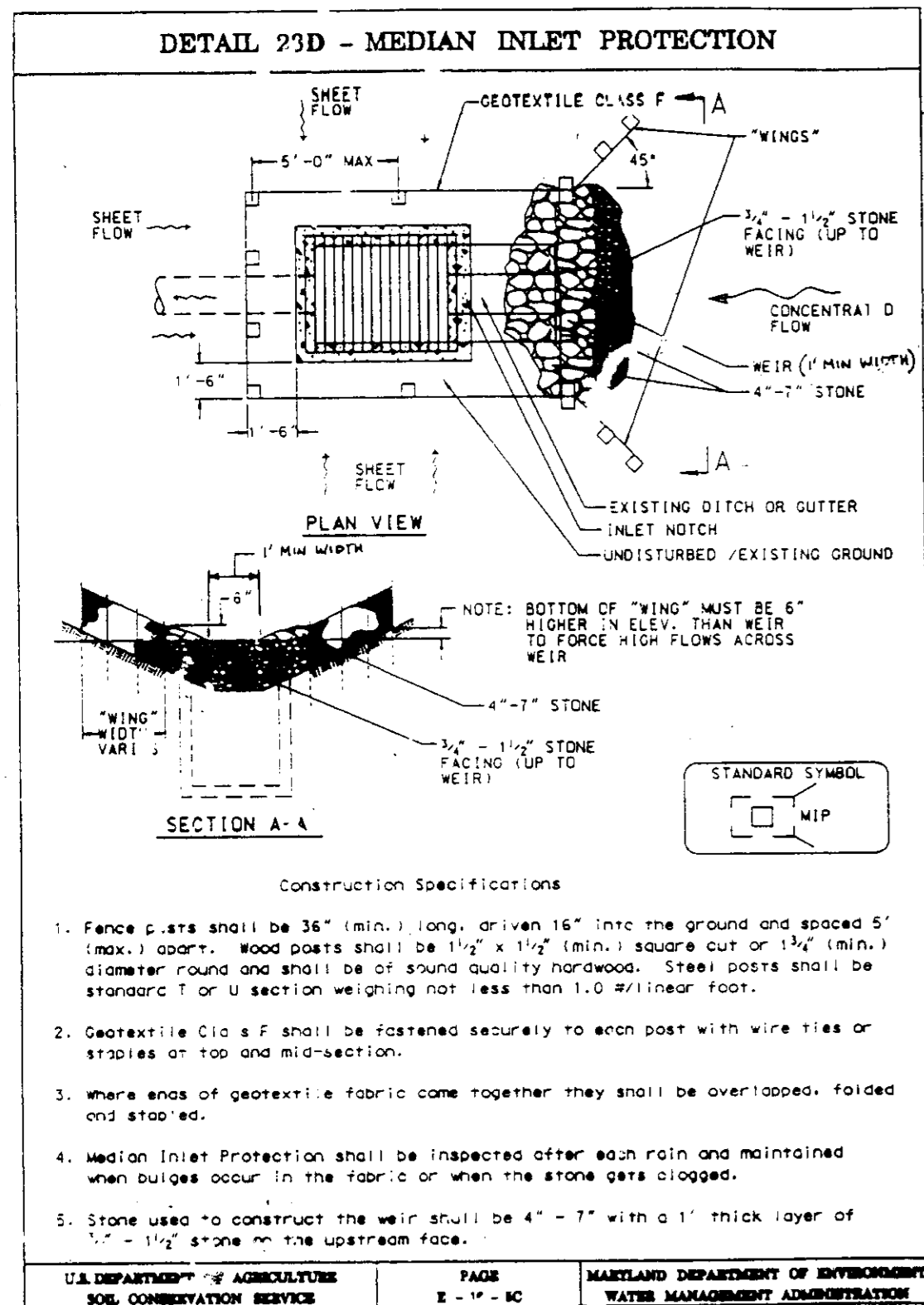
REVISED SITE DEVELOPMENT PLAN
 GRADING AND SEDIMENT CONTROL PLAN
 COLUMBIA CLASSIC GRAND PRIX EVENT FIELD
 HOWARD COMMUNITY COLLEGE

SCALE: AS SHOWN T.M. 35 BL. 6 P. 47
 5TH ELECTION DISTRICT

S.D.P. 91-88

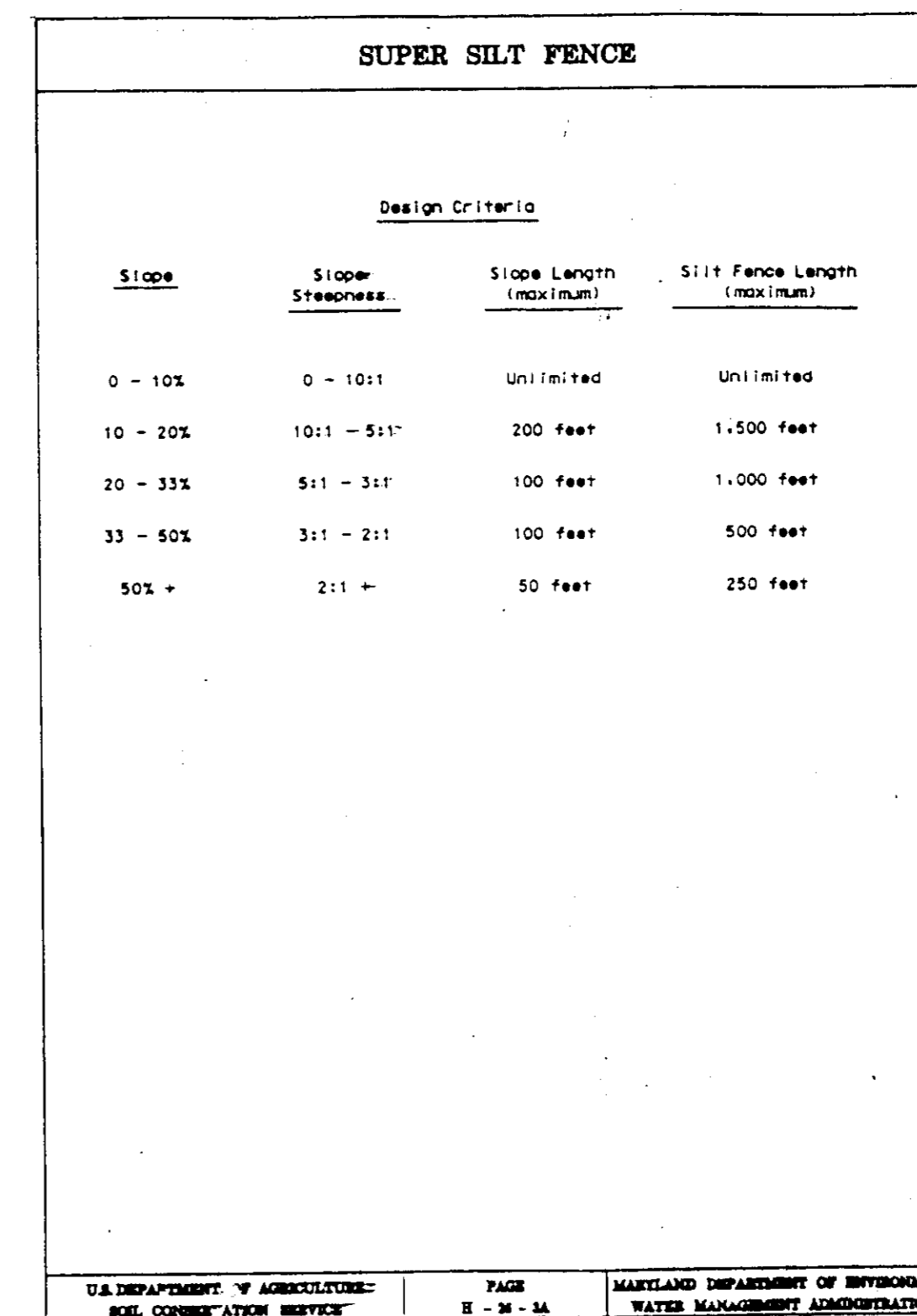
SHEET
 8
 OF
 9

COMMENT: DRAWING DATE: DRAWN BY: DATE PLOTTED: MONTH/YEAR



STORM SEWER DESIGN

STRUCTURE	FROM TO	CONTRIBUTING AREA (A)	AREA (A)	RUNOFF COEFF. (C)	Δ CA	10 YEAR RUNOFF			PIPE				REMARKS	
						EA	EA A	TIME TO TRAVEL (MIN.)	TYPE	MANUFACTURER	SO. SLOPE %	L. LENGTH FT.		VO. U/L/SEC.
①	CULVERT	A-B	1.10	0.71	0.78	1.0	6.80	0.1	10" x 12"	BOCMFA	0.85%	20'	4.0'	
②	CULVERT	A-B	4.31	0.40	1.72	1.1	6.40	11.0	10" x 12"	BOCMFA	1.07%	20'	5.0'	
③	15" A-3		10.25	0.25	2.57		11.0	6.20	14.5	RCP	1.87%			



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date: 11/17/95

APPROVED: *John Summery*
 Chief, Division and Land Development and Research
 Date: 11/21/95

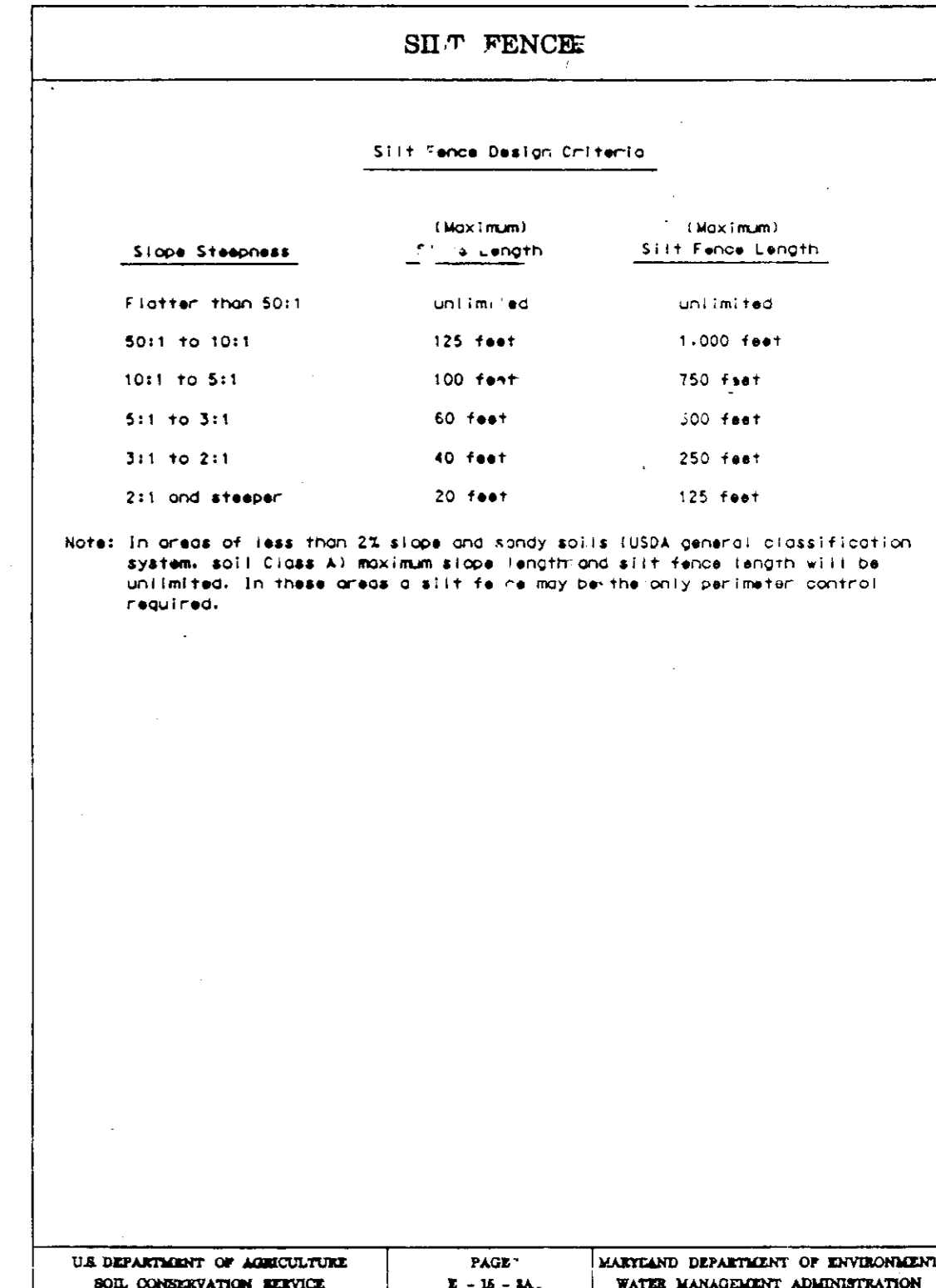
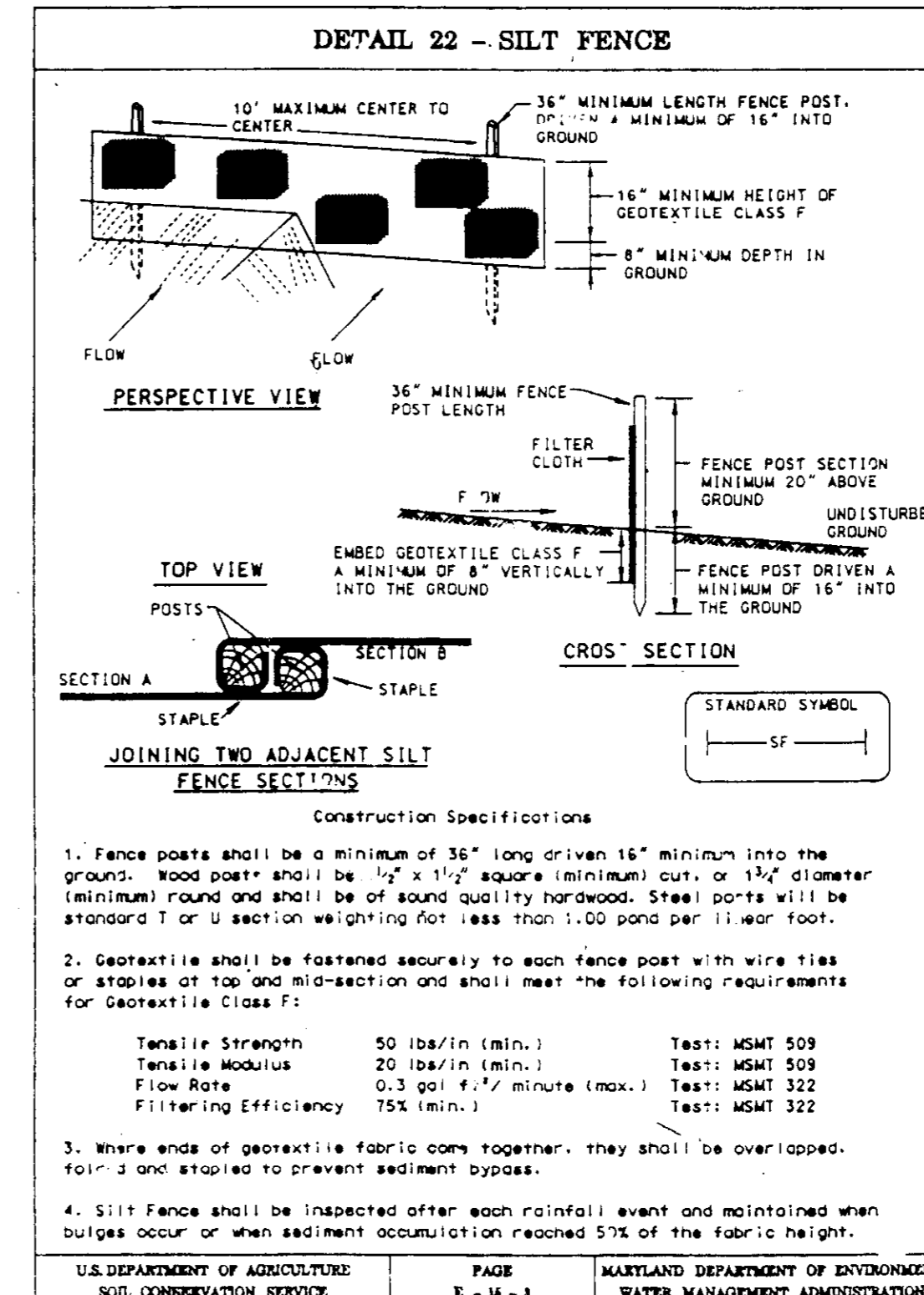
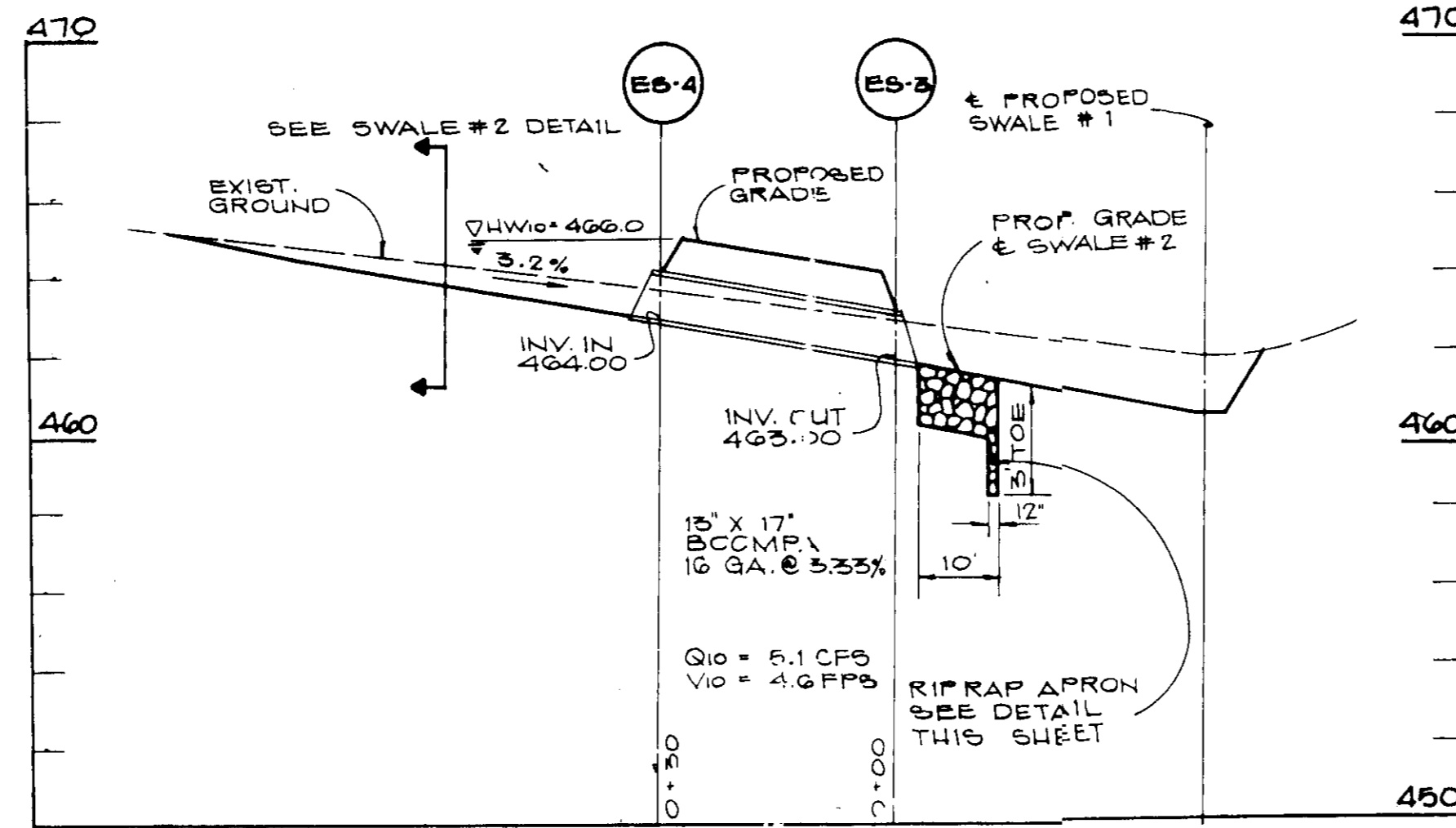
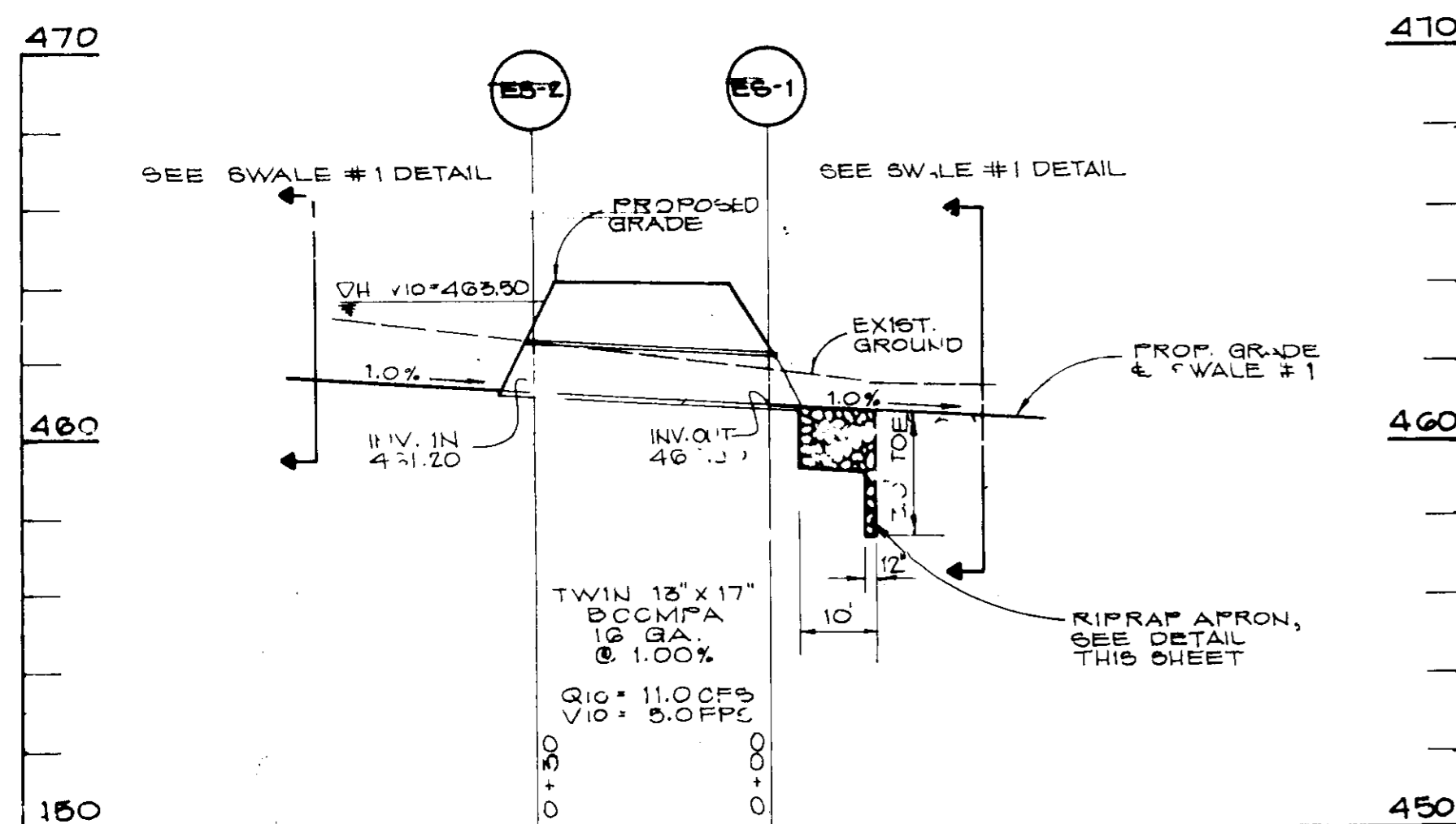
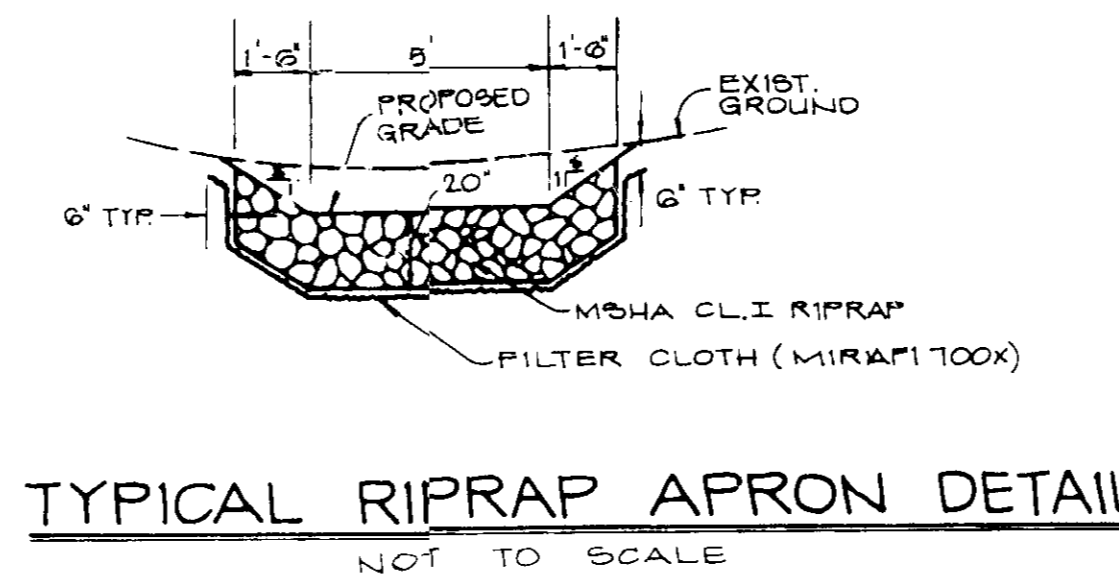
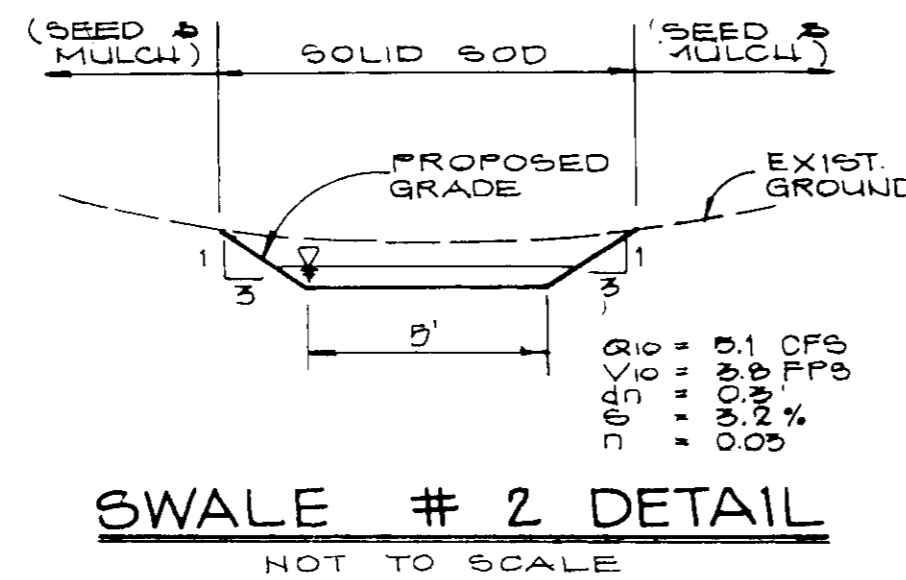
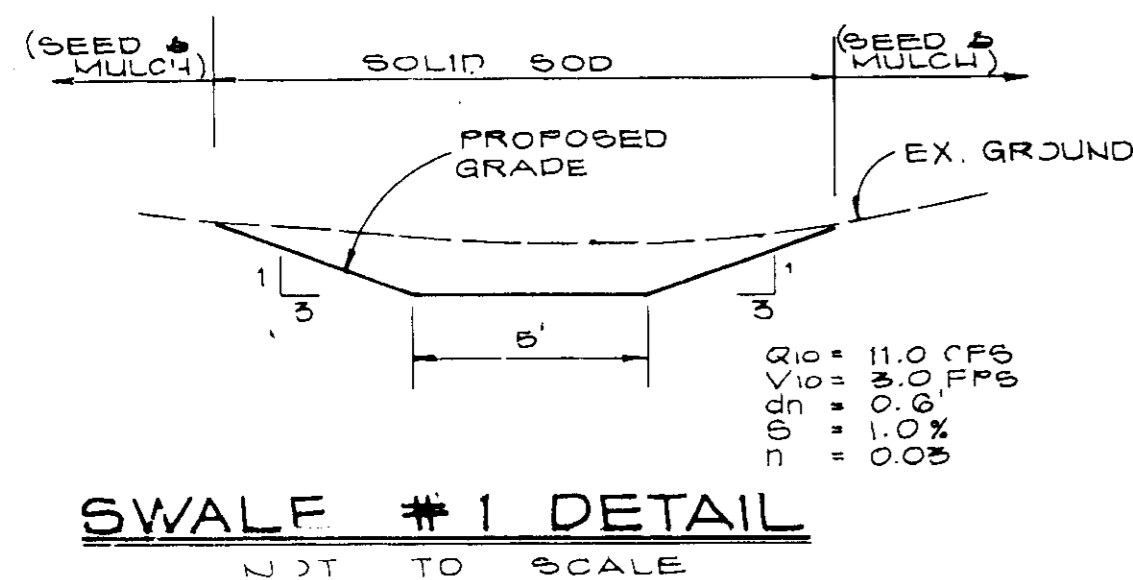
APPROVED: *James G. ...*
 Director
 Date: 11/28/95

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

APPROVED: *Patricia Engler*
 USDA NATURAL RESOURCES SERVICE
 DATE: 11/15/95

APPROVED: *John R. ...*
 DATE: 11/15/95

APPROVED: HOWARD S.C.D.



DEVELOPER:
 HOWARD COMMUNITY COLLEGE
 10901 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (410) 954-4913

DESIGNED: M.A.M. 10/95 date
 DRAWN: R.A.S. 10/95 date
 CHECKED: M.A.M. 10/95 date
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REVISIONS		
DATE	BY	DESCRIPTION

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