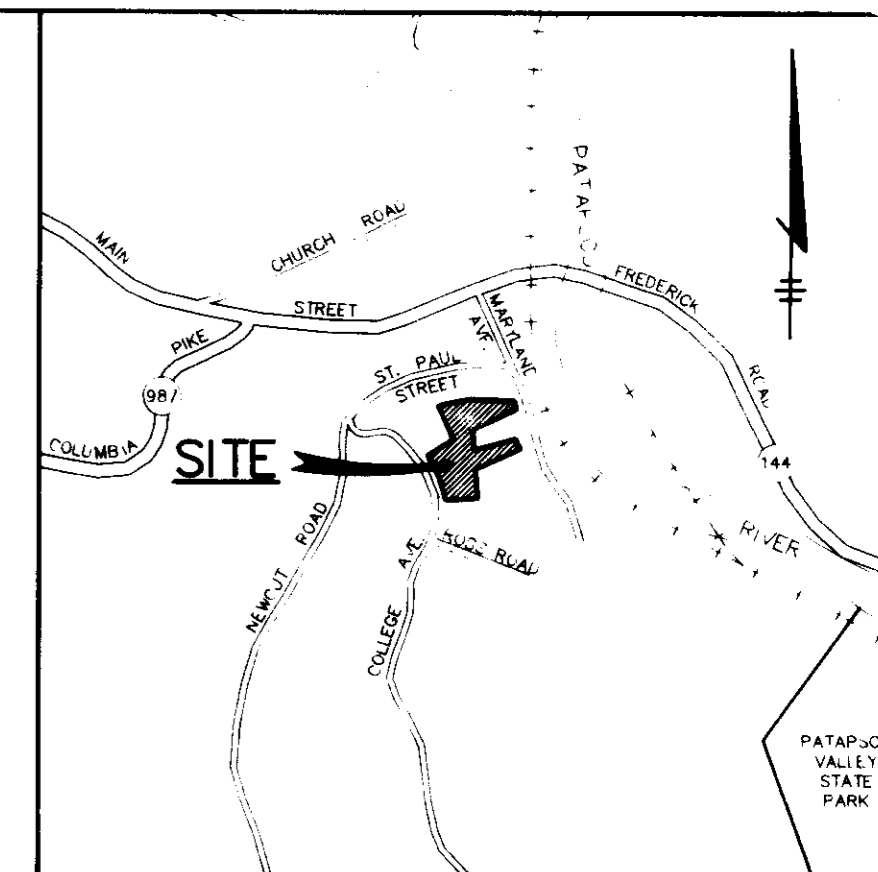


**SHEET INDEX**

NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
4	DETAILS & PROFILES
5	LANDSCAPE PLAN & ENVIRONMENTAL ANALYSIS

# SITE DEVELOPMENT PLAN SAINT PAUL'S CHURCH 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND



**VICINITY MAP**  
SCALE: 1"=600'

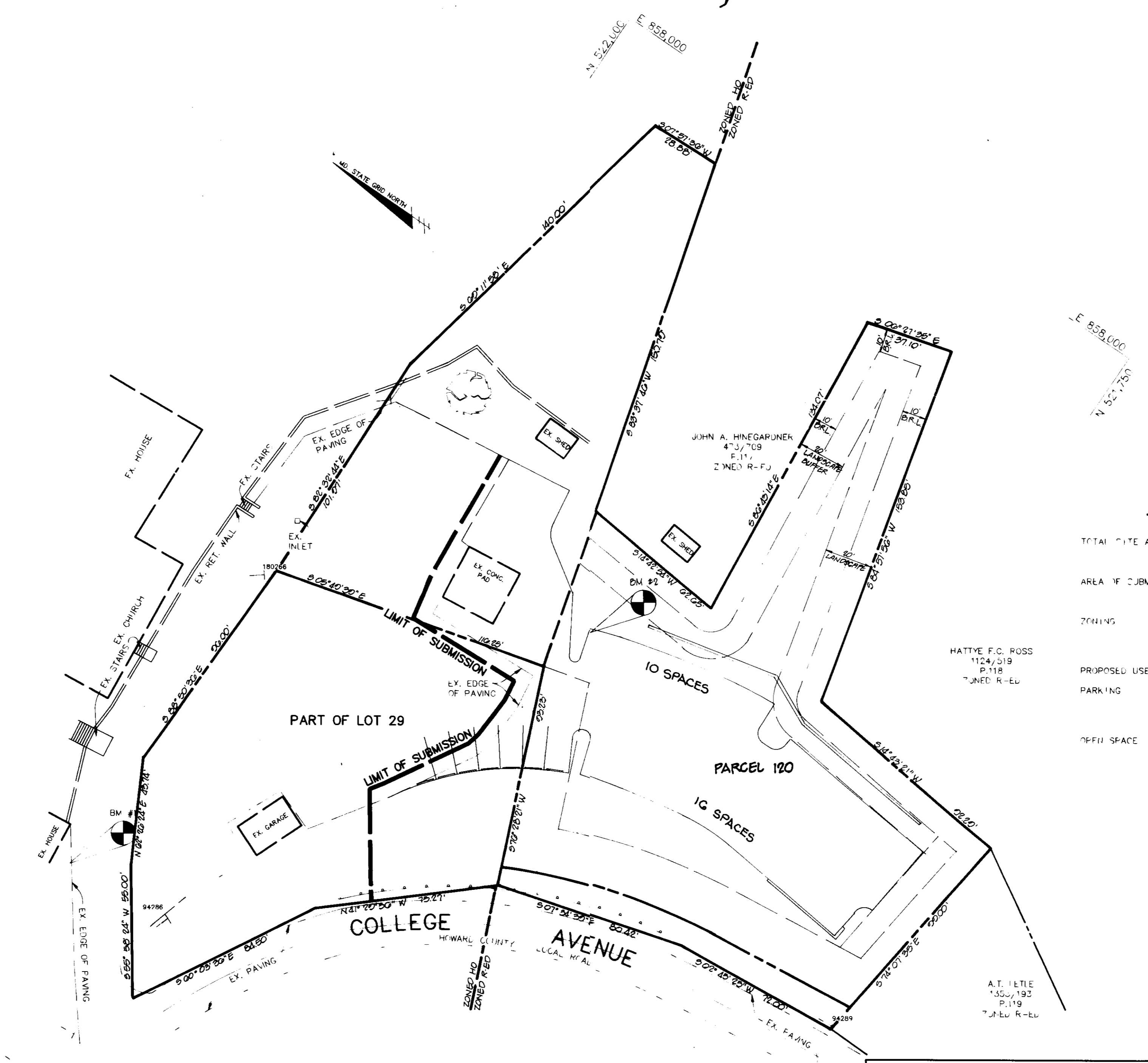
**BENCHMARKS**

**BM #1** ELEV. 194.94  
TRAVERSE POINT #600. P.K. NAIL SET IN EDGE OF PARKING LOT PAVING, APPROXIMATELY 60'± FROM ENTRANCE. N 521,995.229; E 857,580.841

**BM #2** ELEV. 194.45  
TRAVERSE POINT #601. PIN & CAP FOUND AT PROPERTY CORNER, APPROXIMATELY 38'± SOUTH OF EXISTING CONCRETE PAD. N 521,870.928; E 857,780.418.

**GENERAL NOTES**

- WETLANDS INVESTIGATION PERFORMED BY EXPLORATION RESEARCH SEPTEMBER, 1989 INDICATES NO WETLANDS ON SITE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, 1.6., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAY BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:  
 MISS UTILITY 1-800-257-7777  
 CAP TELEPHONE COMPANY 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES 313-4900  
 AT&T CABLE LOCATION DIVISION 393-3553  
 BALTIMORE GAS & ELECTRIC COMPANY 685-0123  
 STATE HIGHWAY ADMINISTRATION 531-5531  
 HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY 792-7272  
 DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPS TAKEN FROM FIELD RUN SURVEY DATED MARCH, 1991 BY RIEMER MUEGGE AND ASSOCIATES, INC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- 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, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED BY AN UNDERGROUND STORAGE FACILITY.
- THE OWNER SHALL PROVIDE MAINTENANCE FOR THE WATER QUALITY STRUCTURES PROVIDED FOR THIS DEVELOPMENT.
- THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. AT THE DEVELOPER'S DISCRETION, PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
- WP-90-47, A REQUEST FOR A WAIVER FROM SECTION 1G.1G.(c)(2) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, TO ALLOW GRADING WITHOUT THE SUBMISSION AND APPROVAL OF A SITE DEVELOPMENT PLAN, WAS APPROVED IN A LETTER DATED 11-21-89.
- WP-91-148, A REQUEST FOR A WAIVER FROM SECTION 1G.1G.(c)(4) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, TO ALLOW GRADING 25% OR GREATER SLOPES, WAS APPROVED IN A LETTER DATED 5-19-91.



**SITE ANALYSIS**

TOTAL SITE AREA	1.01 AC.
AREA OF SUBMISSION	1.22 AC.
ZONING	HU AND R-EL
PROPOSED USE	PARKING LOT ADDITION
PARKING	PARCEL 120 31 SPACES R-EL LOT 29 6 SPACES HC TOTAL 40 SPACES
OFFICE SPACE	REQUIRED R-EL 20% 0.137 AC. PROVIDED R-EL 67.5% 0.452 AC. REQUIRED HC 0%

**ADDRESS CHART**

LOT NUMBER	STREET ADDRESS
	3755 SAINT PAUL STREET

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 25 June 1991

SUBDIVISION NAME -	SAINT PAUL'S CHURCH
PLAT # -	11B/75
WATER CODE -	N/A
SEWER CODE -	N/A

**AS BUILT CERTIFICATE**

ARTHUR E. MUEGGE #8707 DATE \_\_\_\_\_

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*James M. Boyd* 10/23/91  
 COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*James M. Boyd* 11/1/91  
 DIRECTOR DATE

APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
*James M. Boyd* 10-21-91  
 CHIEF, BUREAU OF ENGINEERING DATE

1-0-02 1 REVISED PARKING AND BOUNDARY ORIENTATION  
 DATE NO. REVISION

OWNER / DEVELOPER  
 FR. DONALD P. CROGHAN  
 ST. PAUL'S CHURCH  
 3755 ST. PAUL STREET  
 ELLICOTT CITY, MARYLAND 21043

PROJECT **ST. PAUL'S CHURCH**  
 A PARKING LOT ADDITION

AREA TAX MAP 25A BLOCK D.E.F.F. OF PAR 120 & PART OF LOT 29  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

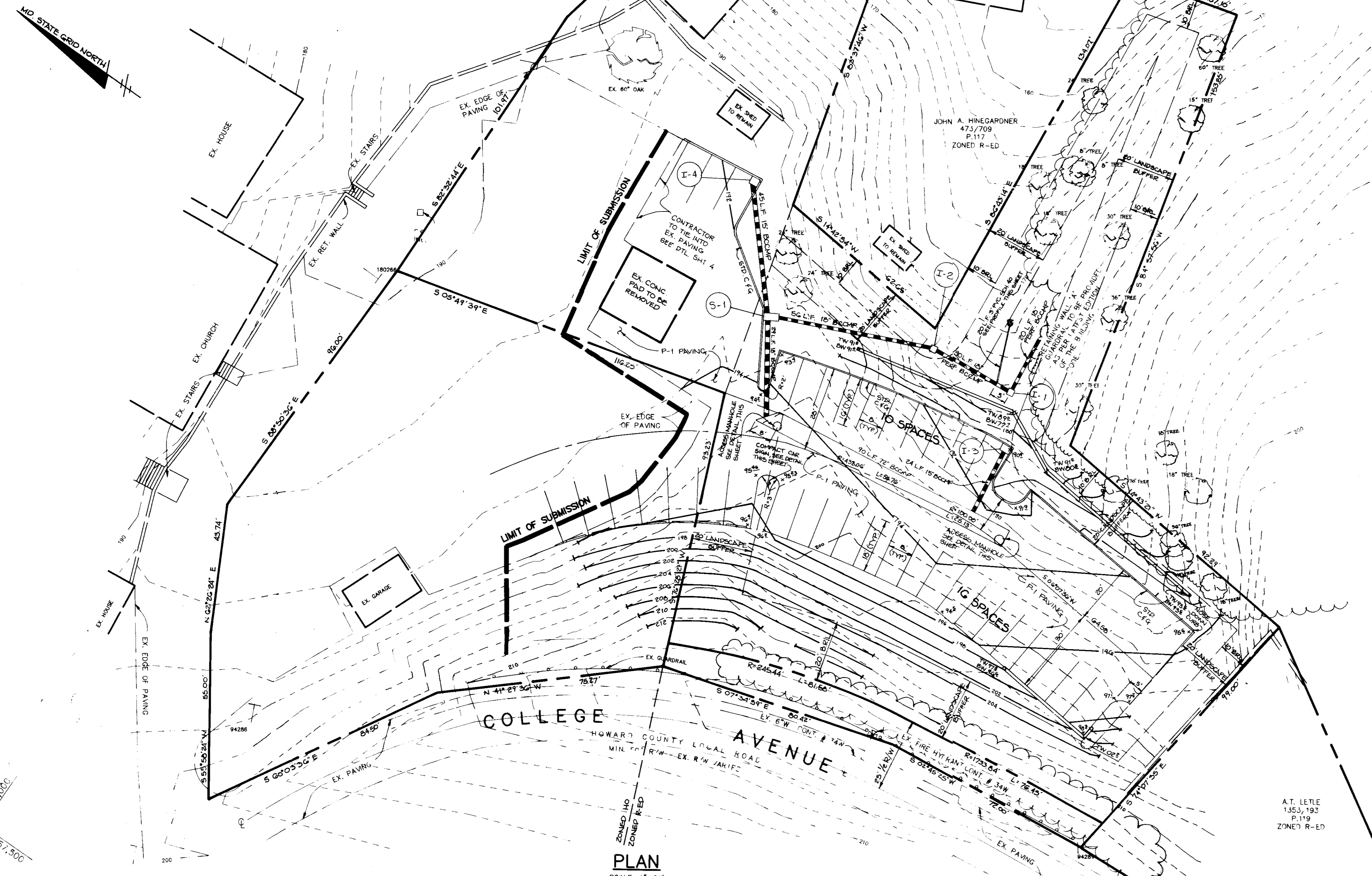
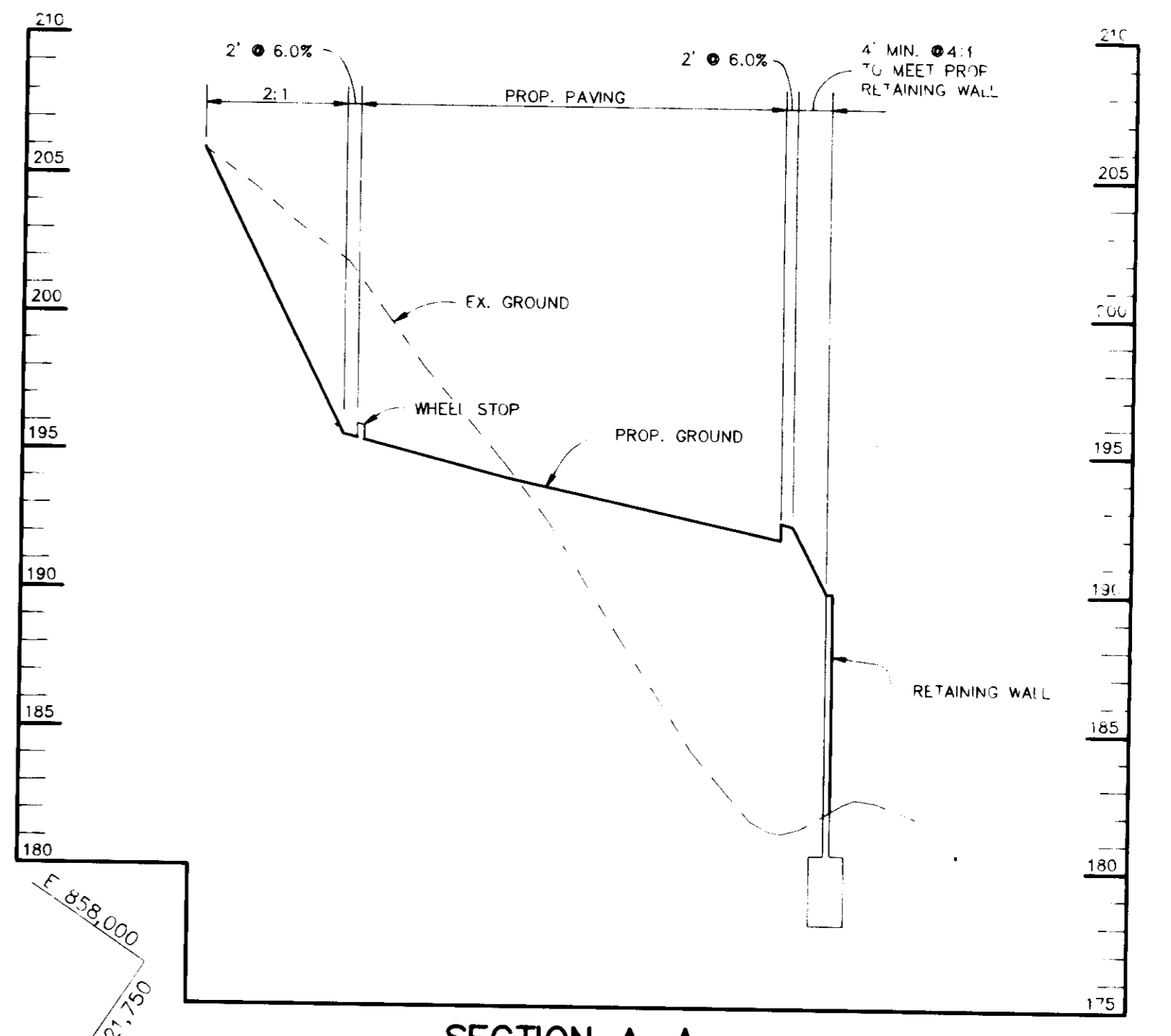
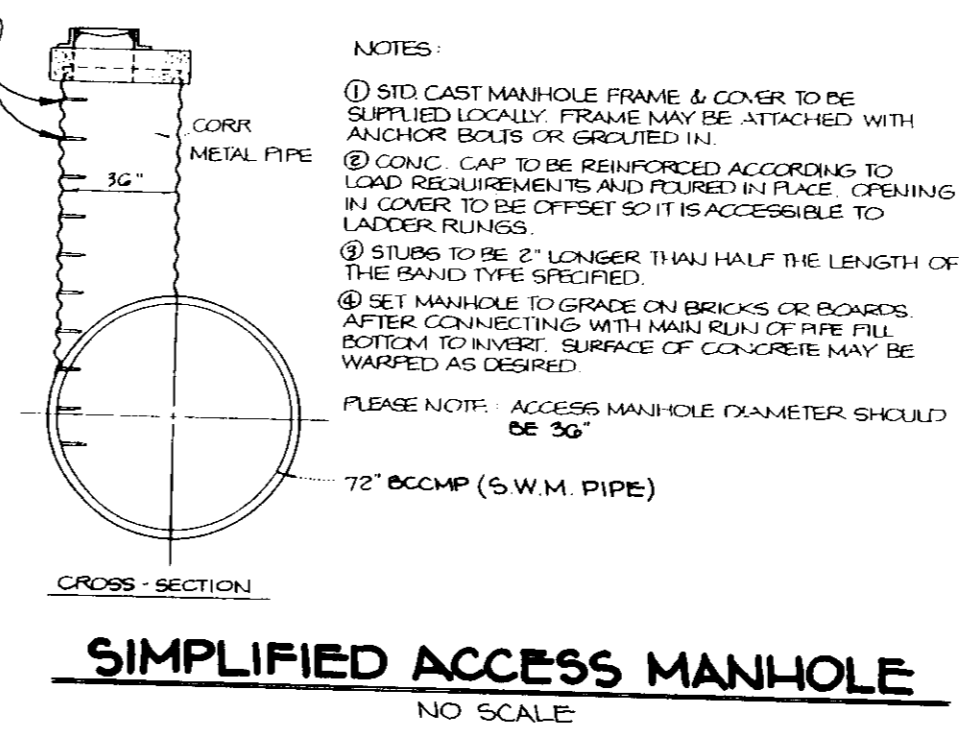
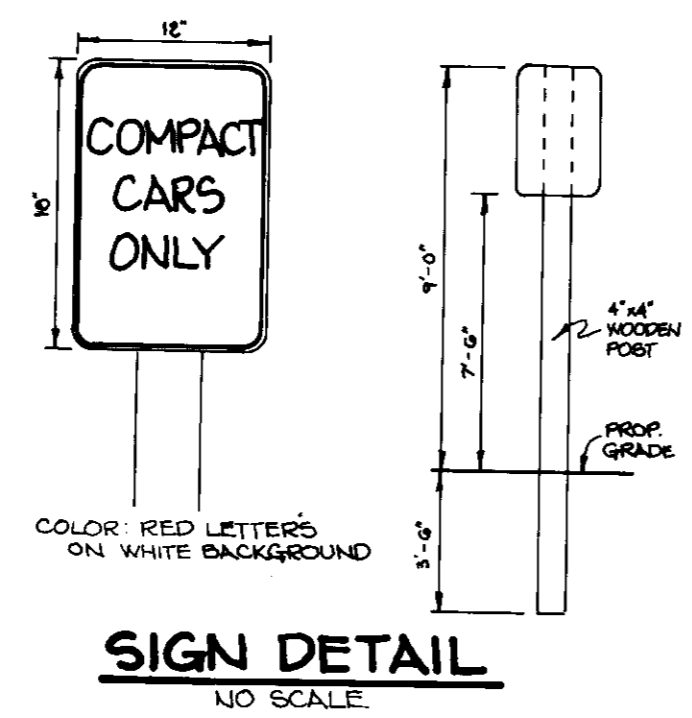
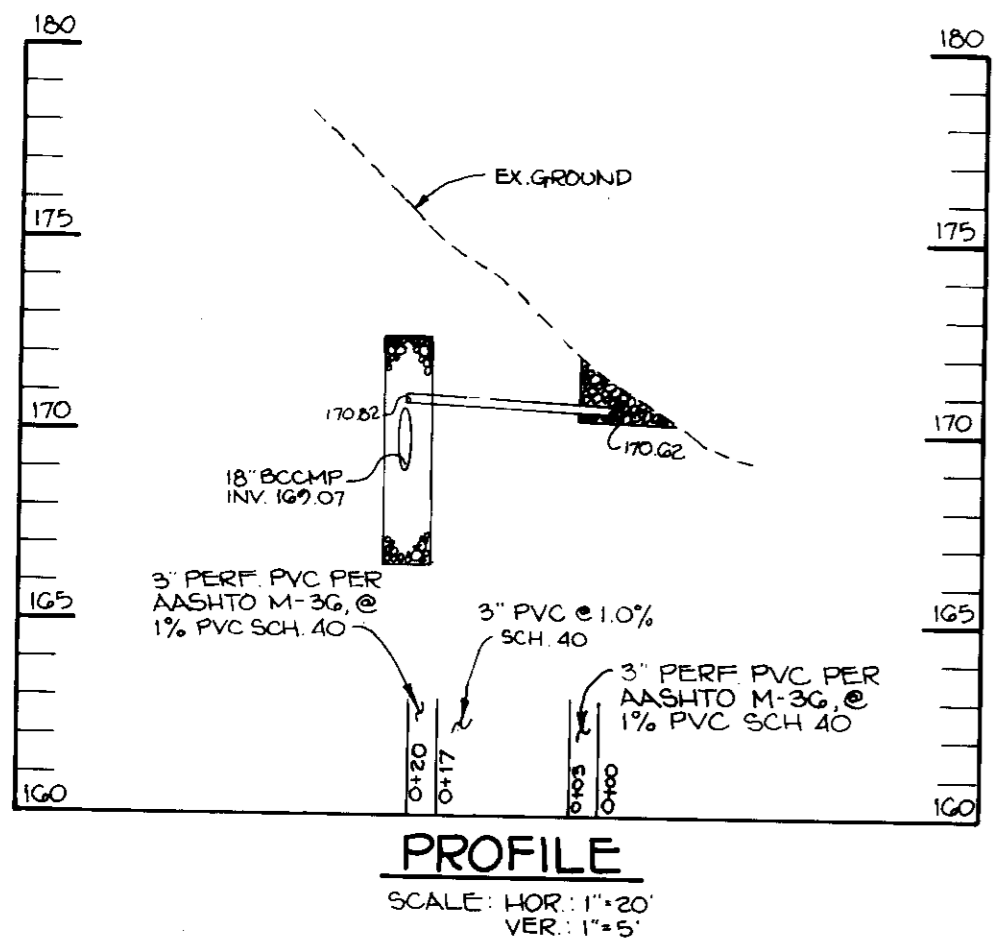
**TITLE SHEET**

RIEMER MUEGGE & ASSOCIATES, INC.  
 8818 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21046  
 (301) 997-8000

DATE 9-13-91

DESIGNED BY: CB  
 DRAWN BY: LB  
 PROJECT NO: 74801  
 DATE: APRIL 5, 1991  
 SCALE: AS SHOWN  
 DRAWING NO. 1 OF 5

ARTHUR E. MUEGGE #8707



**LEGEND**

- EXISTING TREE
- EXISTING TREE LINE
- LIMIT OF SUBMISSION

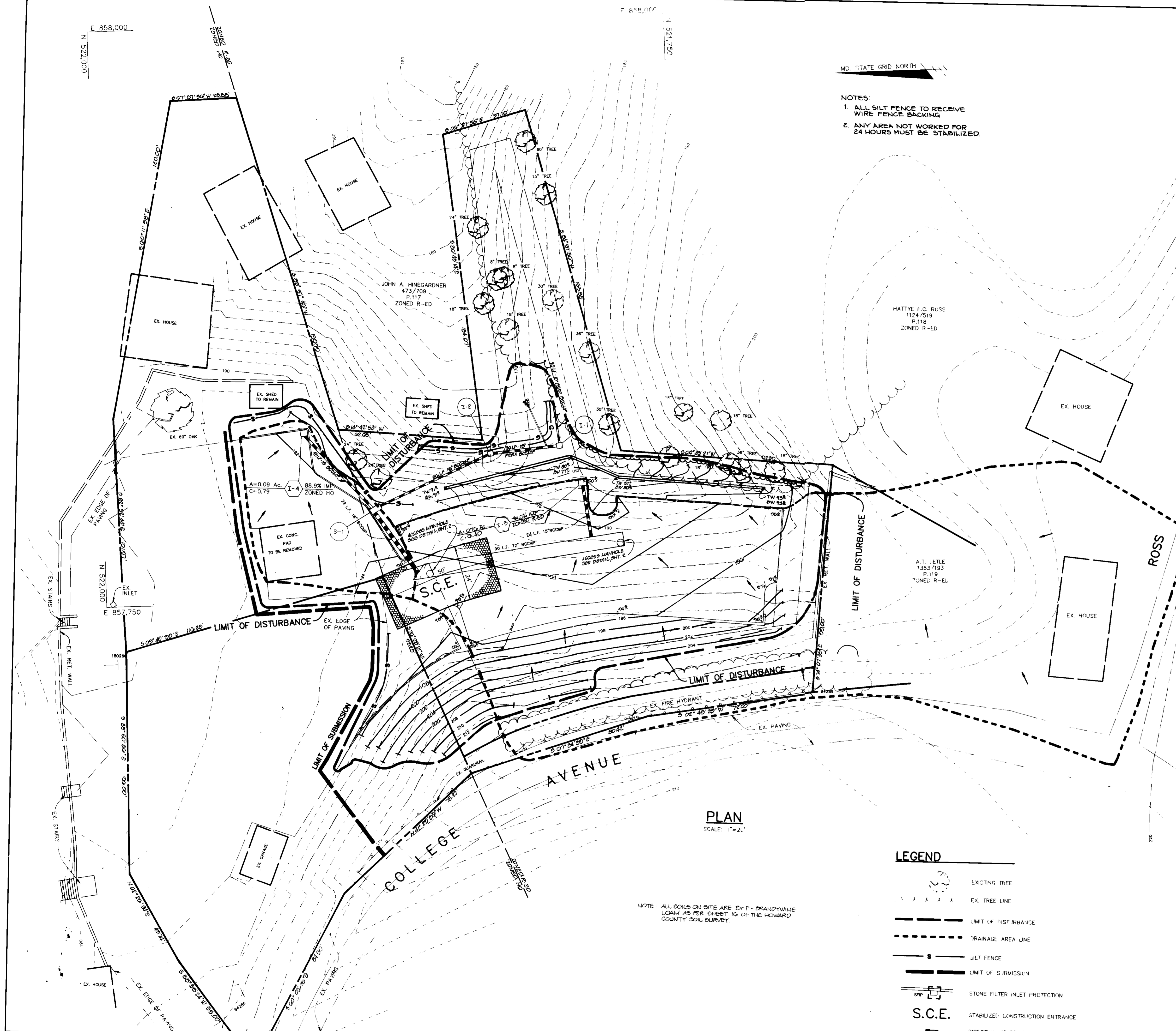
NOTE:  
 1. ALL CURB RETURN RADI ARE 5' UNLESS OTHERWISE NOTED.  
 2. ALL PROP. PAVING IS P-1.

HATTYE F.C. ROSS  
 1124/519  
 P.118  
 ZONED R-ED

A.T. LETE  
 135/193  
 P.119  
 ZONED R-ED

AS BUILT CERTIFICATE	
JAYKANT D. PAREKH #10140	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF HEALTH OFFICER.	
<i>James M. Bondrup Sr.</i>	10/23/91
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James S. Smith</i>	11/1/91
<i>Stimma K. Kromath</i>	11/1/91
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>Ramon J. Slom</i>	10/22/91
<i>William E. Ross</i>	10/21/91
1:9-92   REVISED PARKING AND BOUNDARY ORIENTATION	
DATE NO.	REVISION
OWNER / DEVELOPER	
FR. DONALD P. CROGHAN ST. PAUL'S CHURCH 3755 ST. PAUL STREET ELLCOTT CITY, MARYLAND	
PROJECT <b>ST. PAUL'S CHURCH</b> A PARKING LOT ADDITION	
AREA TAX MAP 25A BLOCK DEV' OF PAR. 120 & PART OF LOT 29 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE <b>SITE DEVELOPMENT PLAN</b>	
RIEMER MUEGGE & ASSOCIATES, INC. 8818 CENTRE PARK DRIVE SUITE 200 COLUMBIA, MARYLAND 21045 (301) 207-8000	
	GP-3F-13, WP-3F-4" WP-91 1A4
DESIGNED BY: CD	
DRAWN BY: CB	
PROJECT NO: 74801	
DATE: APRIL 5, 1991	
SCALE: AS SHOWN	
DRAWING NO. 2 OF 5	

**APPROVED**  
 PLANNING BOARD  
 of HOWARD COUNTY  
 DATE: 25 June 1991



- NOTES:
1. ALL SILT FENCE TO RECEIVE WIRE FENCE BACKING.
  2. ANY AREA NOT WORKED FOR 24 HOURS MUST BE STABILIZED.

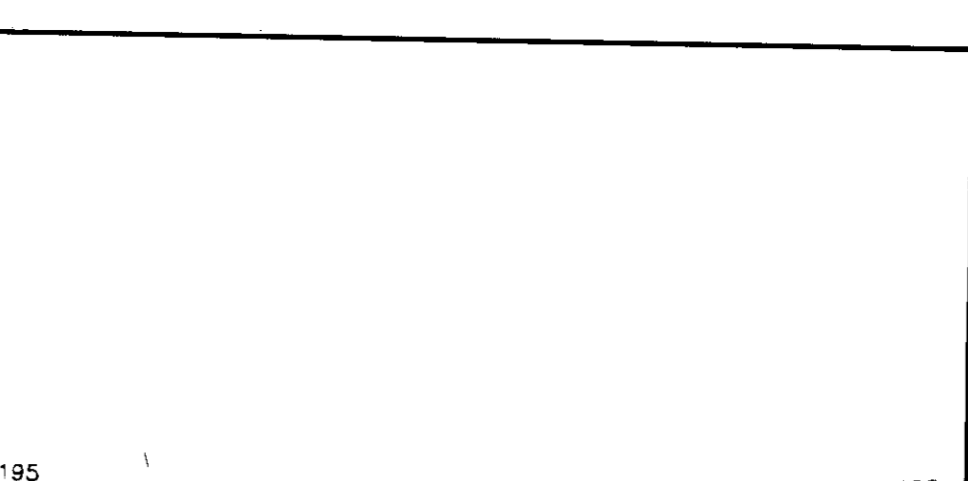
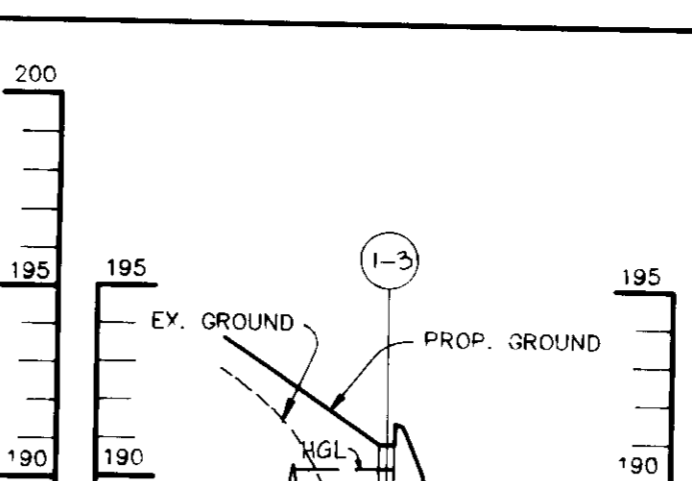
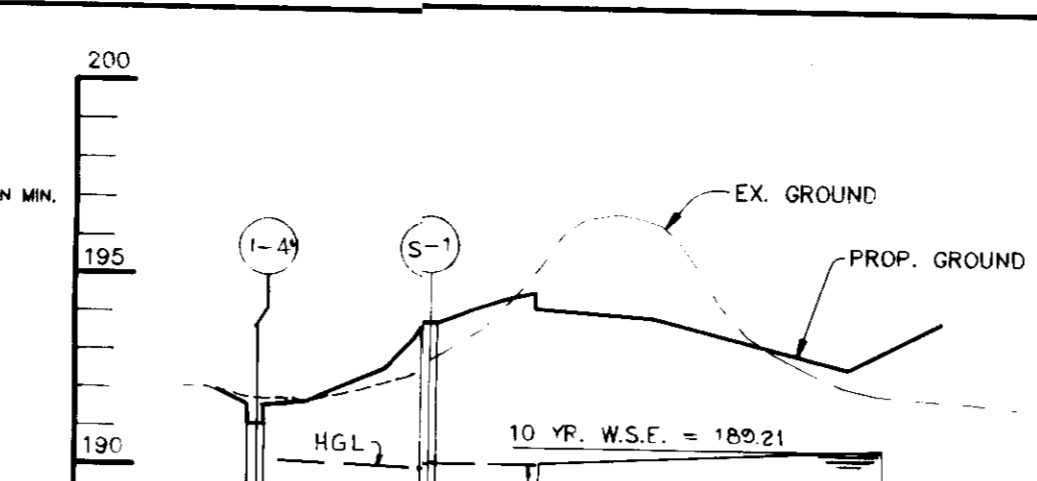
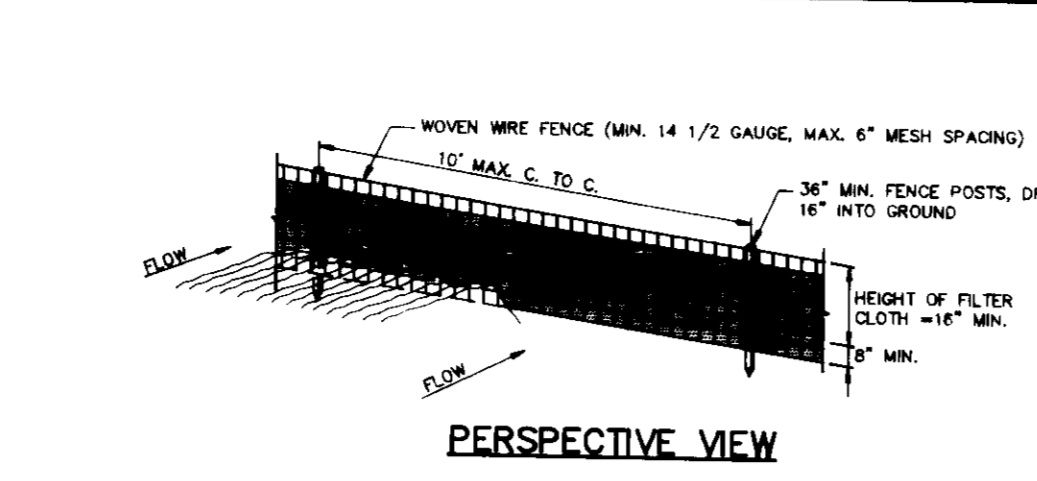
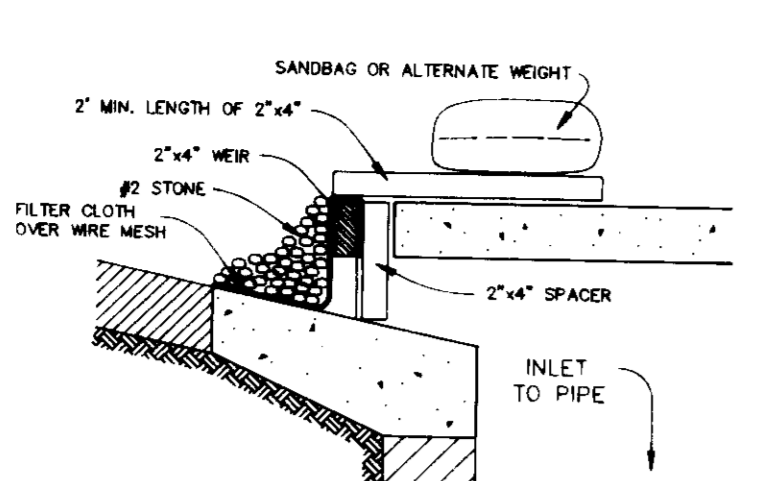
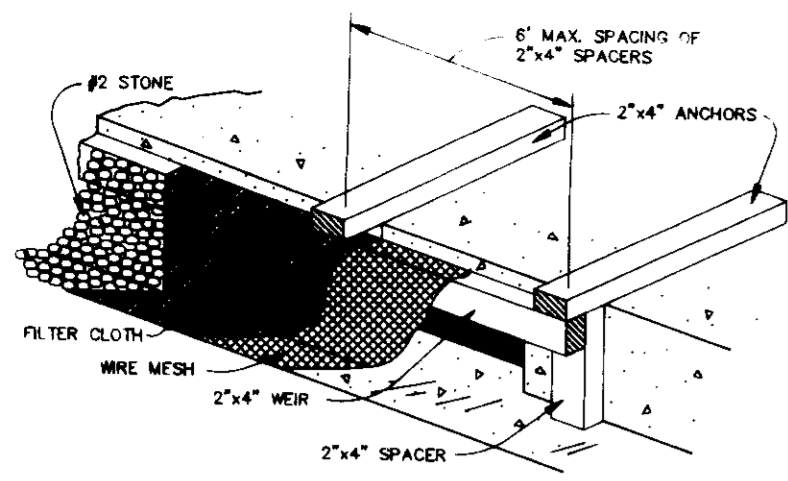
PLAN  
SCALE: 1"=20'

NOTE: ALL SOILS ON SITE ARE OF F. BRANDYWINE LOAM AS PER SHEET 10 OF THE HOWARD COUNTY SOIL SURVEY.

- LEGEND**
- EXISTING TREE
  - EX. TREE LINE
  - LIMIT OF DISTURBANCE
  - DRAINAGE AREA LINE
  - SILT FENCE
  - LIMIT OF SUBMISSION
  - STONE FILTER INLET PROTECTION
  - S.C.E. STABILIZED CONSTRUCTION ENTRANCE
  - DIRECTION OF DRAINAGE FLOW

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>William H. Keeler</i>	9/14/91
DEVELOPER	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 SOIL CONSERVATION DISTRICT.	
<i>Arthur E. Muegge</i>	9/13/91
ENGINEER	DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	
<i>James M. Hahn (C.D.)</i>	10/15/91
SOIL CONSERVATION SERVICE	DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>John W. Kelly</i>	10/15/91
HOWARD SOIL CONSERVATION DISTRICT	DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Borden per JSM</i>	10/23/91
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James J. Homan</i>	11/11/91
DIRECTOR	DATE
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James J. Homan</i>	10/22/91
DIRECTOR	DATE
<i>James J. Homan</i>	10/28/91
CHIEF, BUREAU OF ENGINEERING	DATE
1. 0.02 REVISOR: REVISOR PARKING AND BOUNDARY ORIENTATION	
DATE NO.	REVISION
OWNER / DEVELOPER	
FR. DONALD P. CROGHAN ST. PAUL'S CHURCH 3755 ST. PAUL STREET ELICOTT CITY, MARYLAND	
PROJECT <b>ST. PAUL'S CHURCH</b> A PARKING LOT ADDITION	
AREA TAX MAP 25A BLOCK D, E & F OF PAR. 120 & PART OF LOT 29 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE <b>SEDIMENT CONTROL PLAN &amp; DRAINAGE AREA MAP</b>	
RIEMER MUEGGE & ASSOCIATES, INC. 8815 CENTRE PARK DRIVE SUITE 200 COLUMBIA, MARYLAND 21045 (301) 997-8200	
	GP-96-13, WF-36-47, WP-91-140 DESIGNED BY: CB DRAWN BY: CB PROJECT NO.: 74801 DATE: APRIL 5, 1991 SCALE: AS SHOWN DRAWING NO. 3 OF 5

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 05 June 1991



**CONSTRUCTION SPECIFICATIONS**

- MATERIALS**
- WOODEN FRAME IS TO BE CONSTRUCTED OF 2"x4" CONSTRUCTION GRADE LUMBER.
- WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC, AND STONE, WITH WATER FULLY IMPOUNDED AGAINST IT.
- FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE, RESISTANT TO SANDWICH WITH A SEW SIZE, EDS 40-85, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
- STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.
- PROCEDURE (FOR CURB INLET PROTECTION)**
- ATTACH A CONTINUOUS PIECE OF WIRE MESH (MIN. WIDTH BY HEIGHT LENGTH PLUS 4") TO THE 2"x4" WIRE MEASURING THROUGH LENGTH PLUS 2") AS SHOWN ON THE STANDARD DRAWING.
- PLACE A PIECE OF APPROVED FILTER CLOTH (40-85 SEIVE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2"x4" WIRE.
- SECURELY NAIL THE 2"x4" WIRE TO 8" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WIRE AND INLET FACE (MAX. 8" APART).
- PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND WIRE (MINIMUM 2" LENGTHS) TO THE TOP OF THE WIRE AT SPACER LOCATIONS. THESE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
- THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING.
- FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE CURB AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
- THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WITH SANDWICH.
- ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.

**STONE FILTER INLET PROTECTION**

NO SCALE

**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" of top and mid section.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and laced.
- Maintenance shall be performed as needed and material removed when "bulging" develops in the silt fence.

**SILT FENCE DETAIL**

NO SCALE

**STORM DRAIN PROFILE**

SCALE: HOR.-1"=50' VERT.-1"=5'

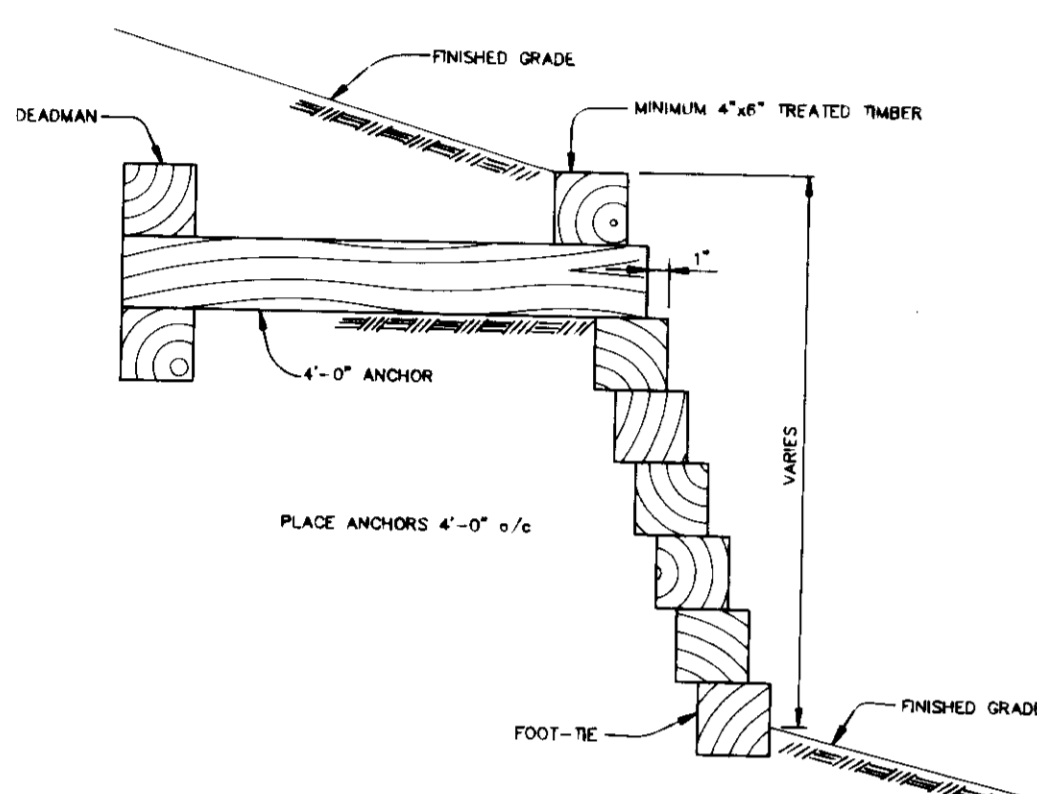
**STORM DRAIN PROFILE**

SCALE: HOR.-1"=50' VERT.-1"=5'

**RETAINING WALL 'A' PROFILE**

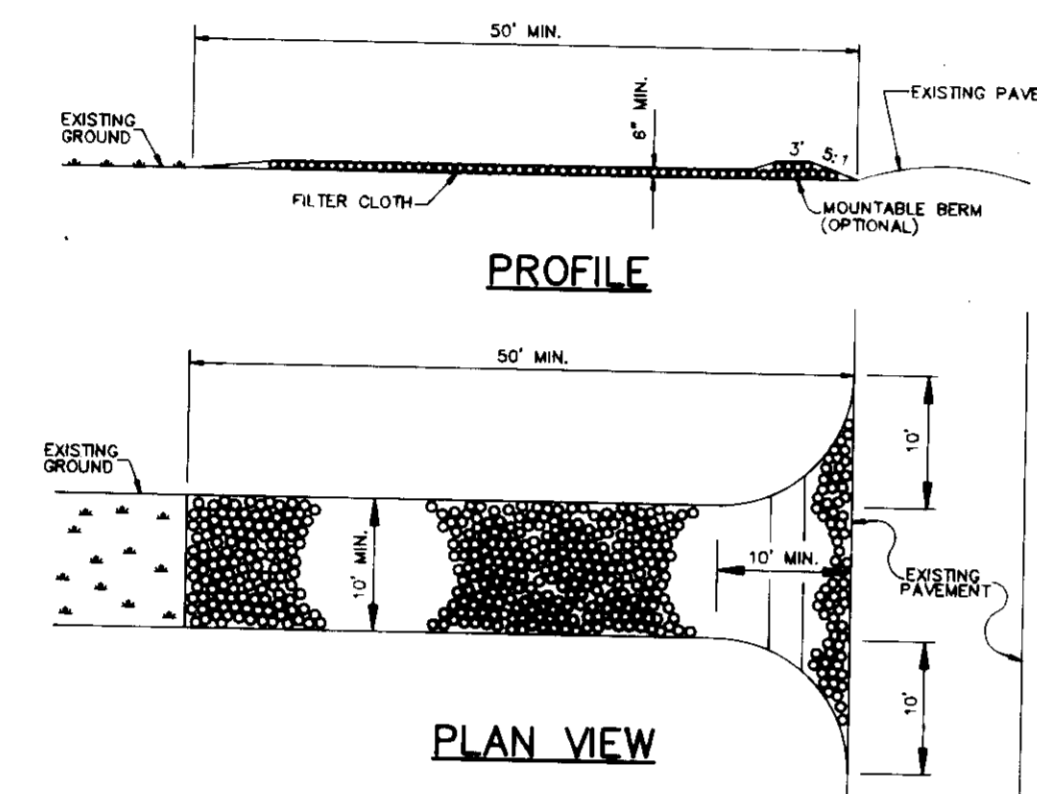
SCALE: HOR.-1"=50' VERT.-1"=5'

NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
1-3	5" INLET	SEE PLAN	191.90	---	187.00	SEE HO. CO. STD. DETAIL SD-4.22
1-4	5" INLET	SEE PLAN	191.10	---	187.04	SEE HO. CO. STD. DETAIL SD-4.22
1-2	5" INLET	SEE PLAN	179.10	169.30	169.20	SEE HO. CO. STD. DETAIL SD-4.22
5-1	MODIFIED A-5 INLET	SEE PLAN	193.70	186.59/183.90	183.70	SEE HO. CO. STD. DETAIL SD-4.01 & MODIFIED INLET DETAIL, THIS SHEET
1-1	5" INLET	SEE PLAN	178.20	---	---	ELEVATIONS ARE TOP OF GRATE



**RETAINING WALL DETAIL**

NO SCALE



**CONSTRUCTION SPECIFICATIONS**

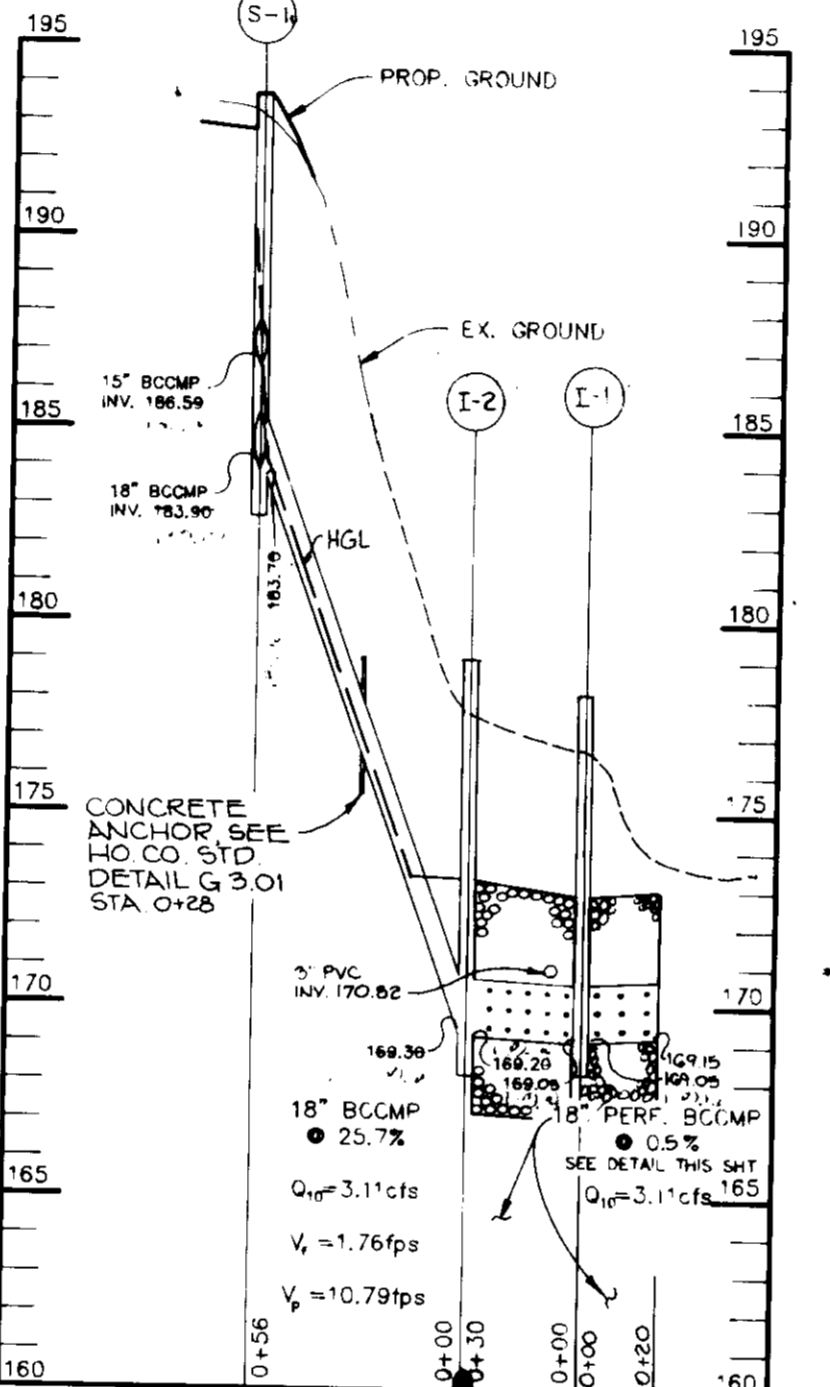
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - Required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum may apply).
- Thickness - Not less than 8" (6" inches).
- Width - Ten (10) foot minimum, but not less than the full width of points where ingress and egress occur.
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
- Surface water - All surface water flowing or directed toward construction entrance shall be piped across the entrance. If piping is impractical, a mounds berm with 5:1 slope will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public rights-of-way. This may require periodic top dressing with additional stone or conditions demand and repair and/or removal of onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public streets and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE**

NO SCALE

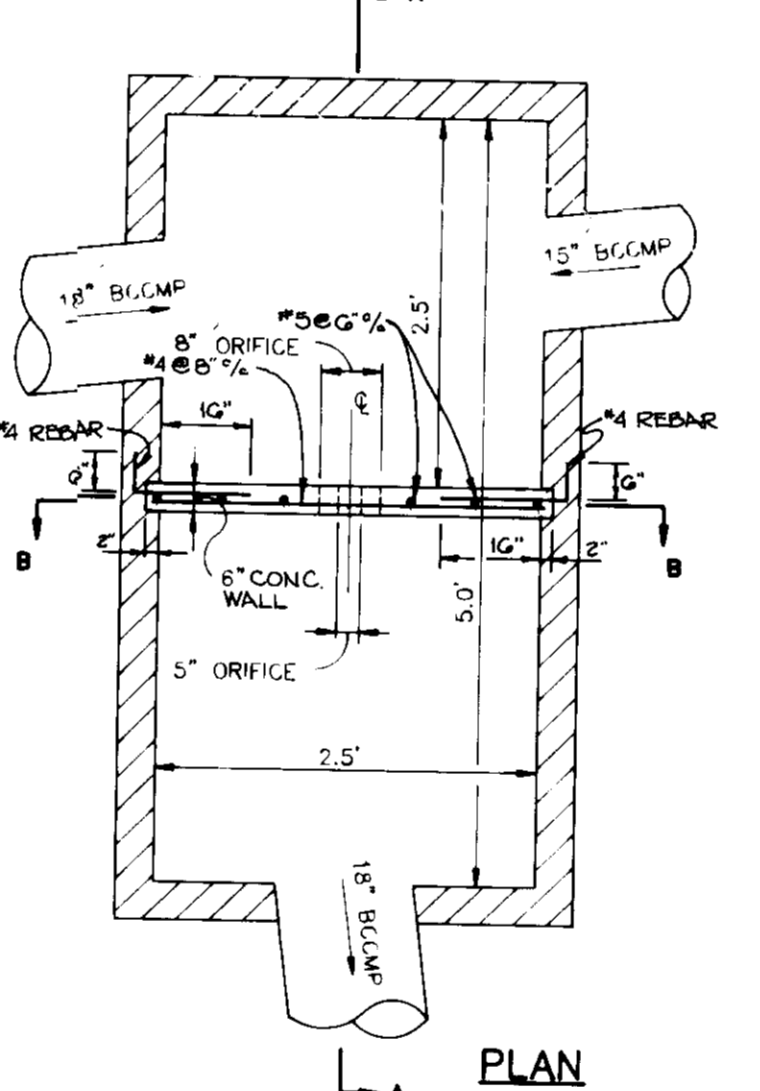
**SEDIMENT CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (892-2437).
- All vegetative and structural practices are to be installed in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION 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 other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around the 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 AND EROSION CONTROL for permanent seedings mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seedings does not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
  - Total Area of Submission: 1.22 acres
  - Area Disturbed: 0.808 acres
  - Area to be roofed or paved: 0.311 acres
  - Area to be vegetatively stabilized: 0.295 acres
  - Total: 1.009 cu.yds.
  - Total Fill: 1217 cu.yds.
  - See notes 12 & 13 below.
- 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.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
- Cut and fill quantities provided under site analysis do not represent bill quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.



**STORM DRAIN PROFILE**

SCALE: HOR.-1"=50' VERT.-1"=5'

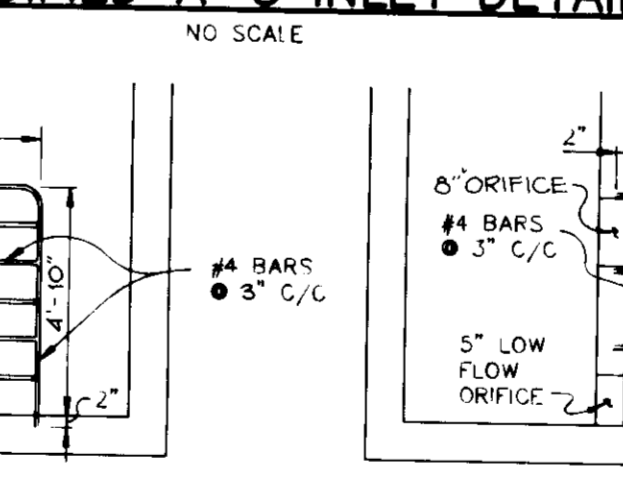


**SECTION A-A**

NOTE: REINFORCEMENT FOR WALLS, BASE AND TOP SLAB, PER HO. CO. STD. DETAIL SD 4.21

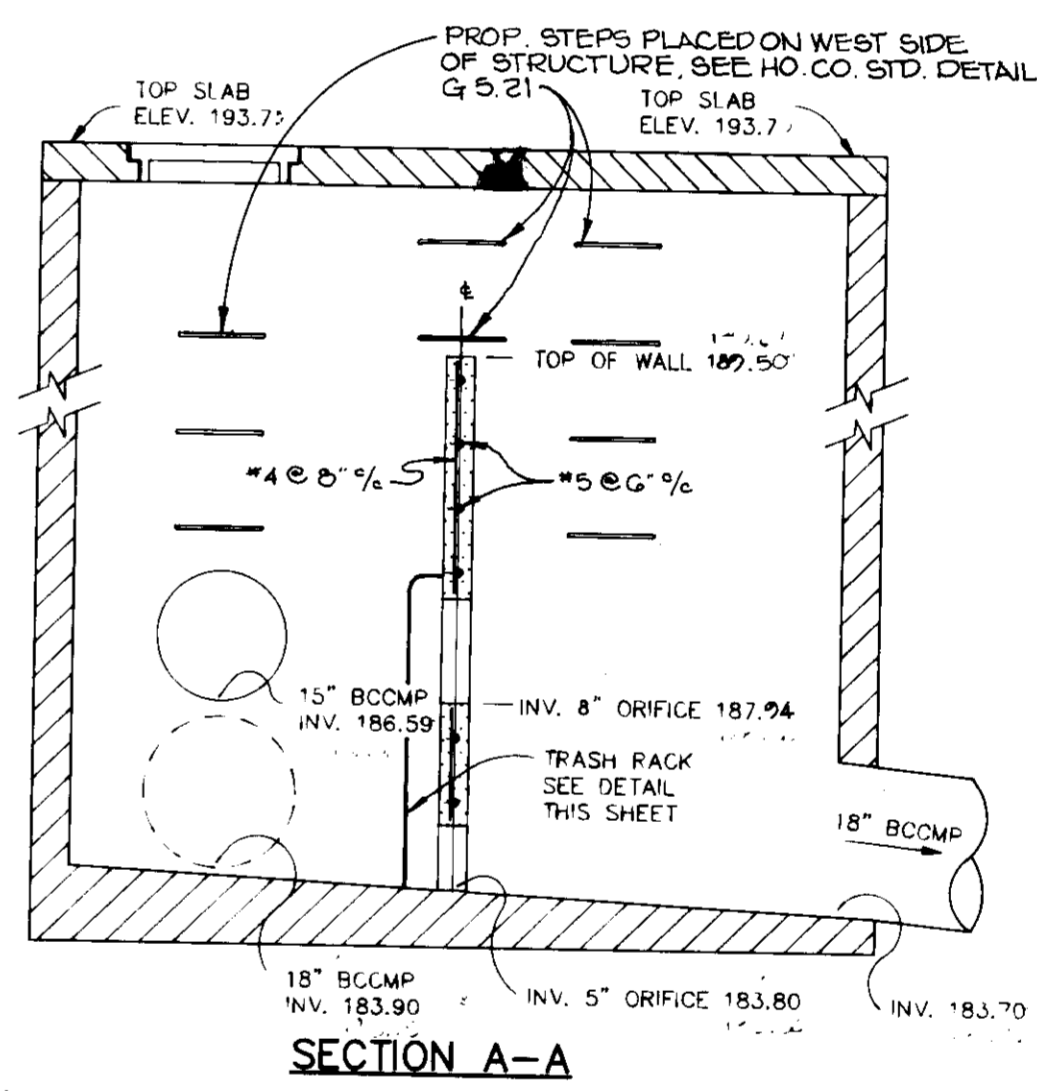
**STRUCTURE S-1 MODIFIED A-5 INLET DETAIL**

NO SCALE



**SECTION B-B**

NO SCALE



**SECTION A-A**

**CONCRETE WHEEL STOP LOCATION PLAN**

NO SCALE

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed 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 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

**Seeding** - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 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 soil.

**Mulching** - Apply 1-1/2 to 2 tons per acre 1/2 to 90 lbs. per 1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seedbed Preparation** - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

**Soil Amendments** - In lieu of soil test recommendations, use one of the following schedules:

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding** - For the period March 1 thru April 30 and from August 15 thru October 15, seed with 60 lbs. per acre (14 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 80 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:

- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use sod.
- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

**Mulching** - Apply 1-1/2 to 2 tons per acre 1/2 to 90 lbs. per 1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

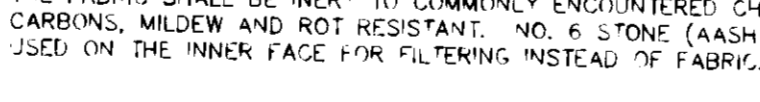
**Maintenance** - Inspect all seeded areas and make needed repairs, replacements and reseedings.

**MATERIAL SPECIFICATIONS**

- RIPRAP SHALL CONSIST OF 4-8 INCH WASHED STONE OR GRAVEL.
- THE FILTER CLOTH SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS, HYDROCARBONS, MILDEW AND ROT RESISTANT. NO. 6 STONE (ASHSTO S7) MAY BE USED ON THE INNER FACE FOR FILTERING INSTEAD OF FABRIC.

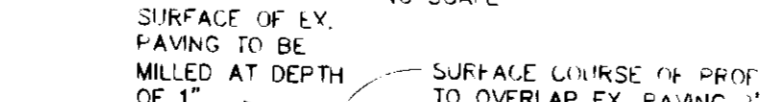
**PERFORATED BCCMP DETAIL TYP.**

NO SCALE



**PAVING TIE-IN DETAIL**

NO SCALE



**AS BUILT CERTIFICATE**

JAYKANT D. PAREKH #10148 DATE

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 PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *William H. Keeler* DATE: *1/2/91*

BY THE ENGINEER:

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

ENGINEER: *Arthur E. Muegge* DATE: *9/13/91*

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

SOIL CONSERVATION SERVICE: *James M. Allen (S.S.)* DATE: *11/15/91*

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

HOWARD SOIL CONSERVATION DISTRICT: *Shirley Z. Shilling* DATE: *11/15/91*

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

COUNTY HEALTH OFFICER: *James M. Blandford* DATE: *10/23/91*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *James M. Blandford* DATE: *11/11/91*

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *Arthur E. Muegge* DATE: *11/11/91*

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

DIRECTOR: *James M. Blandford* DATE: *10/22/91*

CHIEF, BUREAU OF ENGINEERING: *Arthur E. Muegge* DATE: *10/22/91*

1-0-91 1 REVISED STORM DRAIN & RETAINING WALL PROFILES

DATE NO. REVISION

OWNER / DEVELOPER

FR. DONALD P. CROGHAN  
ST. PAUL'S CHURCH  
3765 ST. PAUL STREET  
ELLICOTT CITY, MARYLAND 21043

PROJECT

ST. PAUL'S CHURCH  
A PARKING LOT ADDITION

AREA

TAX MAP 25A BLOCK D.E. #1 OF PAR 120 C PART OF LOT 29  
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE

DETAILS & PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.  
8818 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21046  
(301) 991-6900

DATE: *9/13/91*

DESIGNED BY: CB

DRAWN BY: CB

PROJECT NO.: 74801

DATE: APRIL 5, 1991

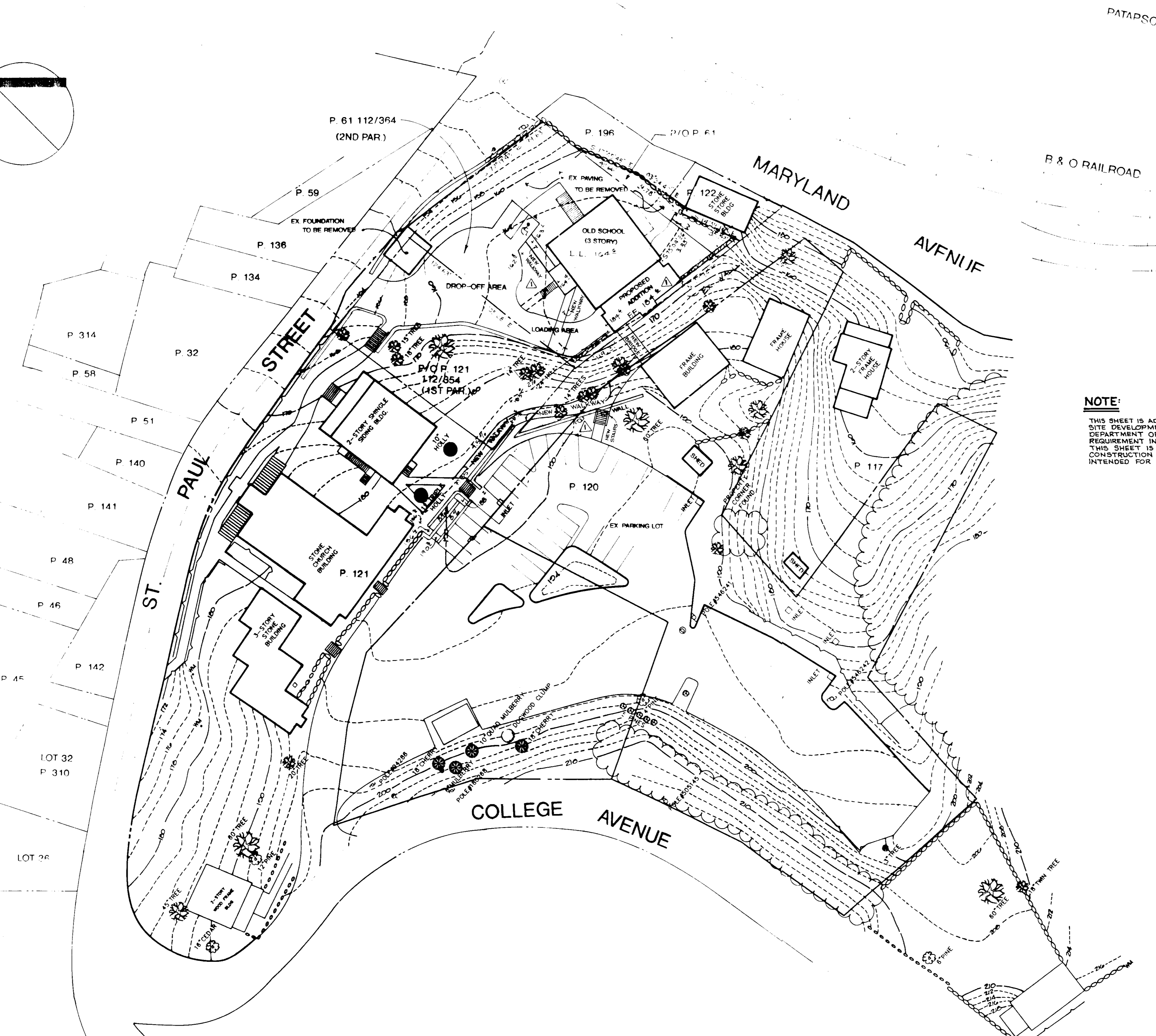
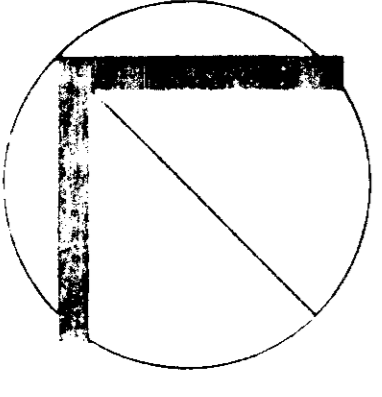
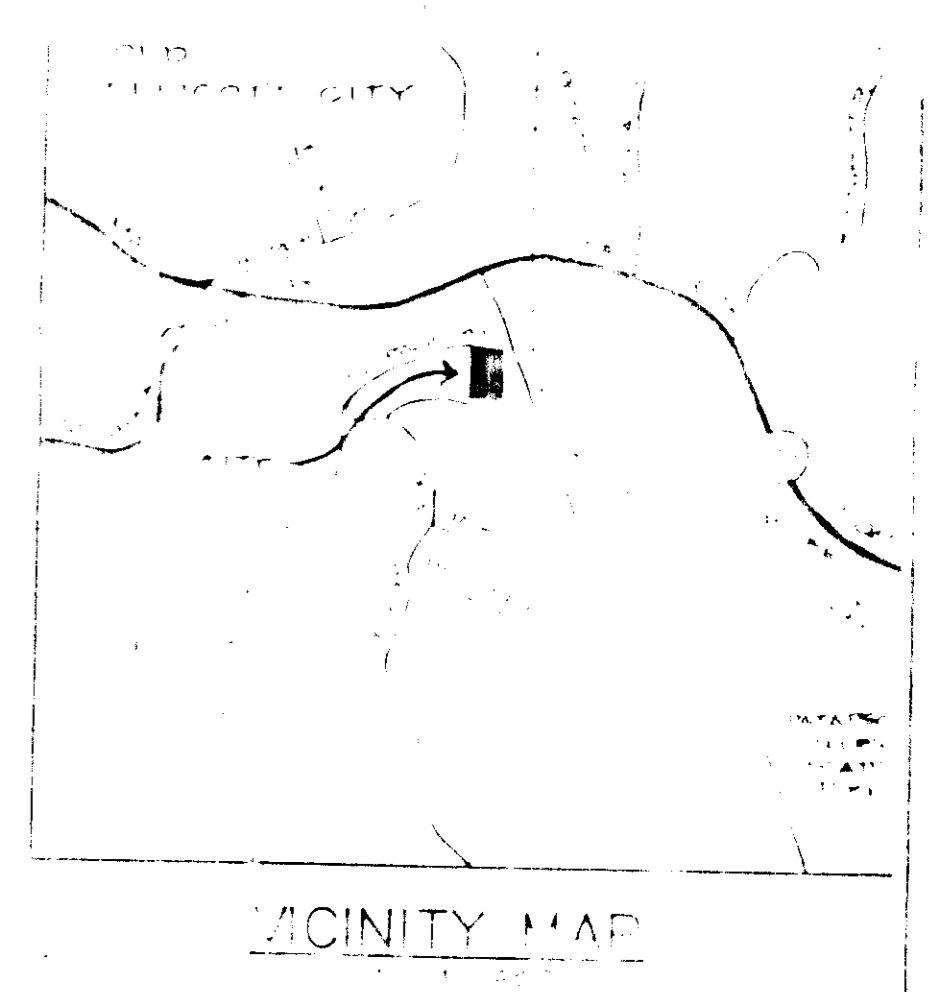
SCALE: AS SHOWN

DRAWING NO. 4 OF 5

APPROVED PLANNING BOARD OF HOWARD COUNTY DATE: *25 June 1991*

STATE OF MARYLAND PROFESSIONAL ENGINEER ARTHUR E. MUEGGE #8707





**NOTE:**  
 THIS SHEET IS ADDED TO THE ORIGINAL SITE DEVELOPMENT PLAN PER THE DEPARTMENT OF PUBLIC WORKS REQUIREMENT IN REFERENCE TO WP-95-118. THIS SHEET IS NOT TO BE UTILIZED FOR CONSTRUCTION PURPOSE AND IS ONLY INTENDED FOR PICTORIAL PURPOSE ONLY.

*SIGNATURES NOT REQUIRED PER WP-95-118*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
DIRECTOR	DATE
CHIEF, BUREAU OF ENGINEERING	DATE

MODIFIED/RELOCATED NEW BRIDGE, STAIRS & WALKWAYS.  
 MODIFIED FOOTPRINT OF PROPOSED BLDG. ADDITION.

FR. THOMAS J. DONAGHY  
 ST. PAUL'S CHURCH  
 2755 ST. PAUL STREET  
 FELLICOTT CITY, MD

**ST. PAUL'S CHURCH**

TAX MAP 25-A PARCEL 1  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**WAIVER PETITION PLAN  
 FOR A SCHOOL ADDITION**

PREPARED BY: MUEGGE & ASSOCIATES, INC.  
 Planning, Engineering and Consulting Firm  
 10000 Park Drive, Suite 200, Beltsville, Maryland 21051  
 TEL: 301-927-8800 FAX: 301-927-8801

DATE: 6/5/95

J. Lueck  
 SCALE: 1" = 30'  
 SHEET NO. 6 OF 6

SEE WP-95-118

SDP-91-104