

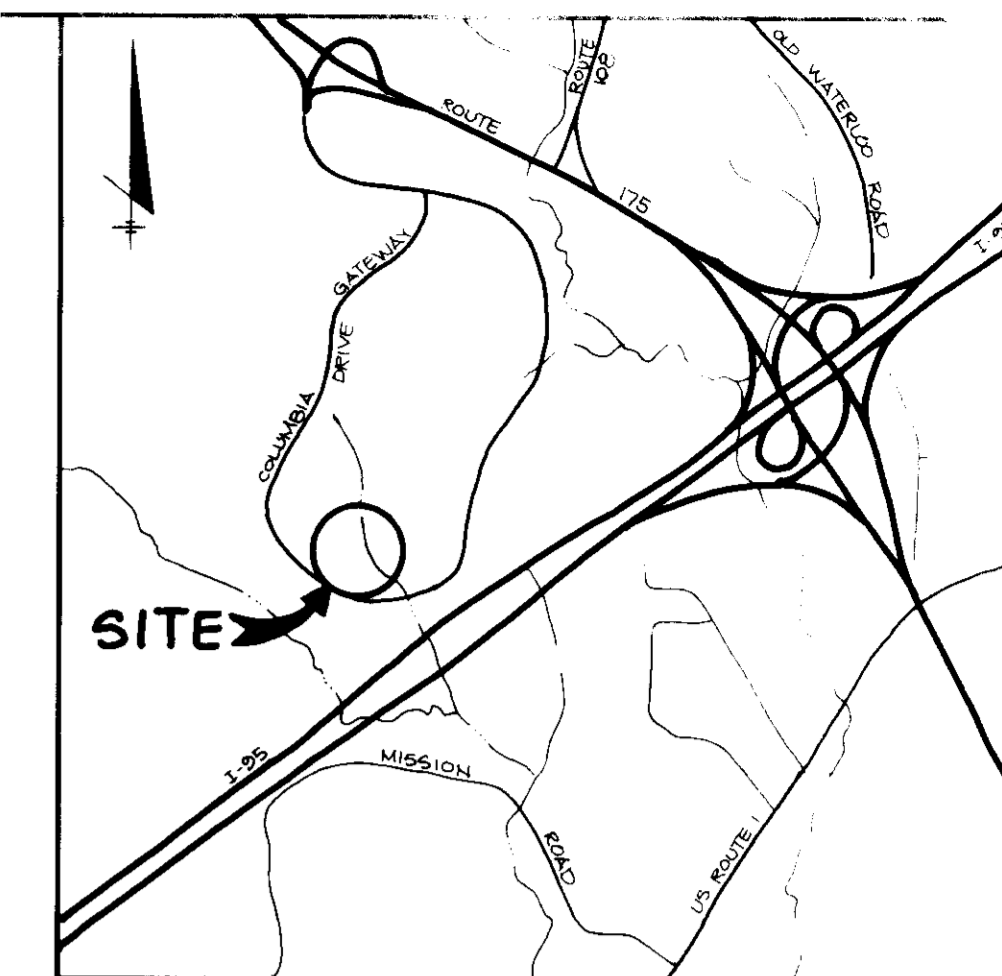
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
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3	DETAIL SHEET
4	GRADING, SEDIMENT CONTROL AND DRAINAGE AREA MAP

# SITE DEVELOPMENT PLAN

## COLUMBIA GATEWAY PARCEL S-12

### 6th ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND



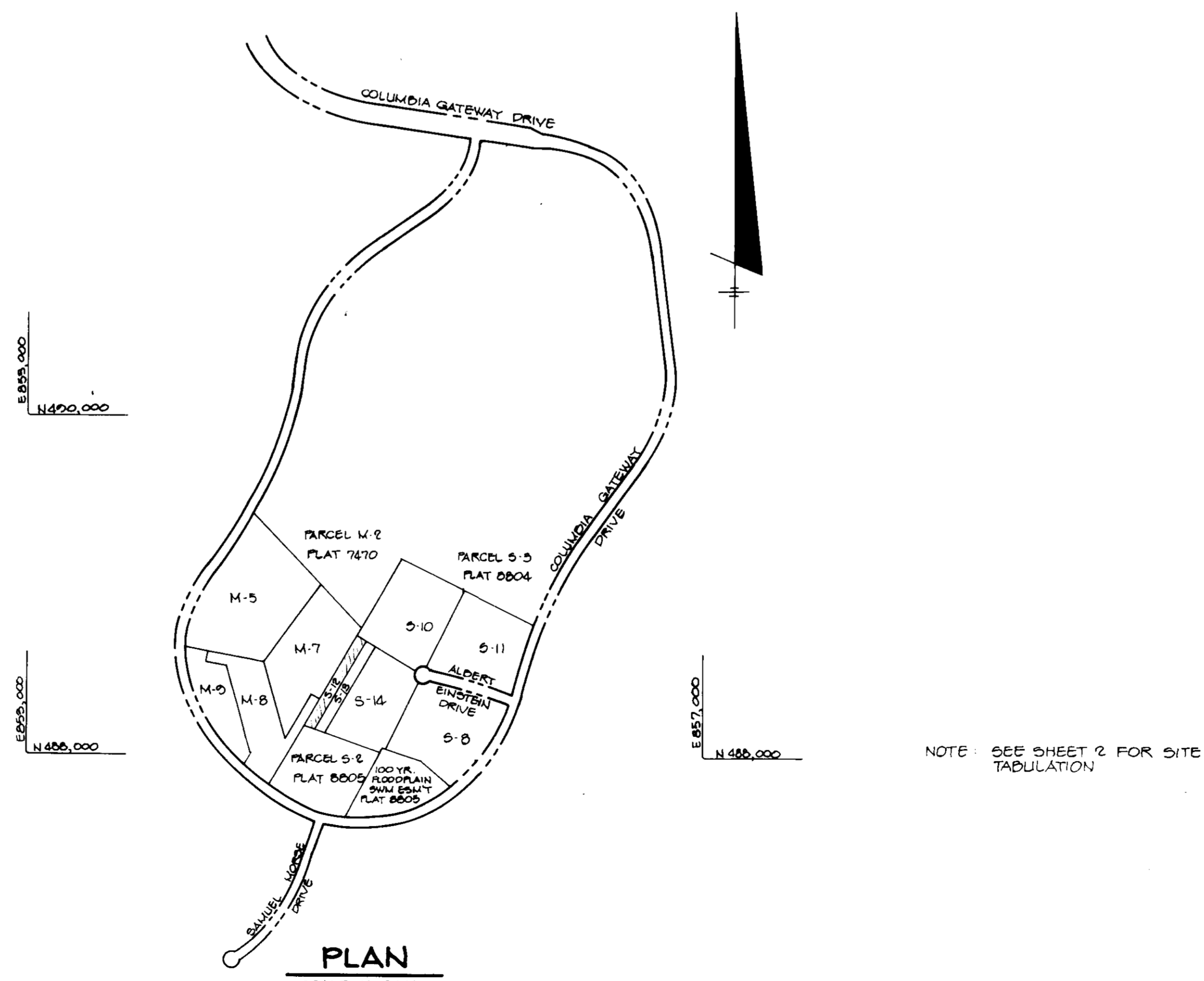
**VICINITY MAP**  
SCALE: 1" = 100'

**BENCH MARKS**  
 W.R.#1 40 ELEV 358.65  
 R.R SPIKE IN BASE OF 4" OAK, 45' LEFT OF E COLUMBIA GATEWAY DRIVE, STA 113+40  
 W.R.#A 40 ELEV 351.66  
 R.R SPIKE IN BASE OF 10" TWIN POPLAR, 75' LEFT OF E COLUMBIA GATEWAY DRIVE, STA 123+45

**GENERAL NOTES**

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., 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
MAP TELEPHONE COMPANY	725-9978
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- 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 NOVEMBER 1980 BY SHANBERGER & LANE.
- 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.
- THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 18.122A OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WATER PRE-TREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED BY STORMWATER MANAGEMENT RETENTION FACILITY UNDER SDP-B1-125.
- THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. 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. APPROVAL FROM THE COUNTY SHALL BE OBTAINED IF THE ON-SITE TESTING REQUIRES PAVEMENT DESIGN TO BE CHANGED.
- WP 02-B1 REQUESTING WAIVER FROM SECTION 15.115 (b)(2) WHICH REQUIRED PUBLIC ROAD FRONTAGE FOR ALL LOTS AND PARCELS, WAS APPROVED NOVEMBER 7, 1991 FOR LOTS S-12 & S-13 AND PARCEL M-7.



**PLAN**  
SCALE: 1" = 600'

NOTE: SEE SHEET 2 FOR SITE TABULATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*James M. Boudin* 11/14/91  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*James M. Boudin* 11/14/91  
 DIRECTOR DATE

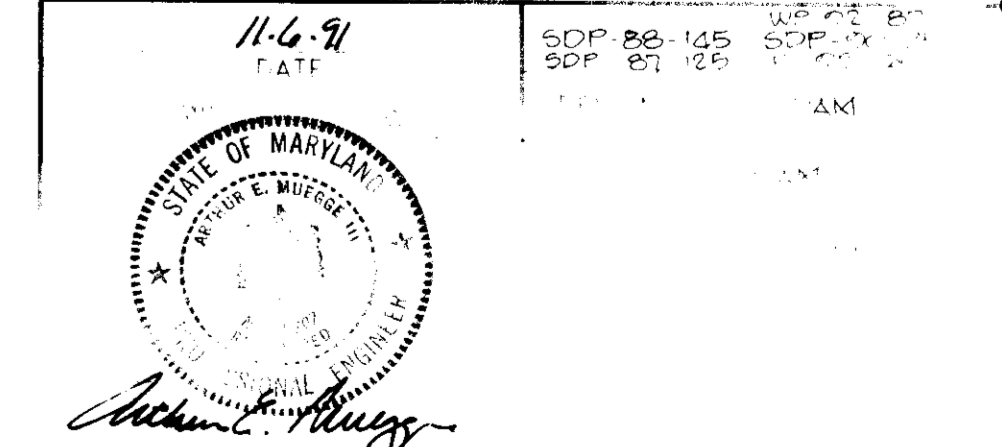
*Samuel H. Smith* 11/14/91  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC UTILITIES.  
*James J. Smith* 11/14/91  
 DIRECTOR DATE

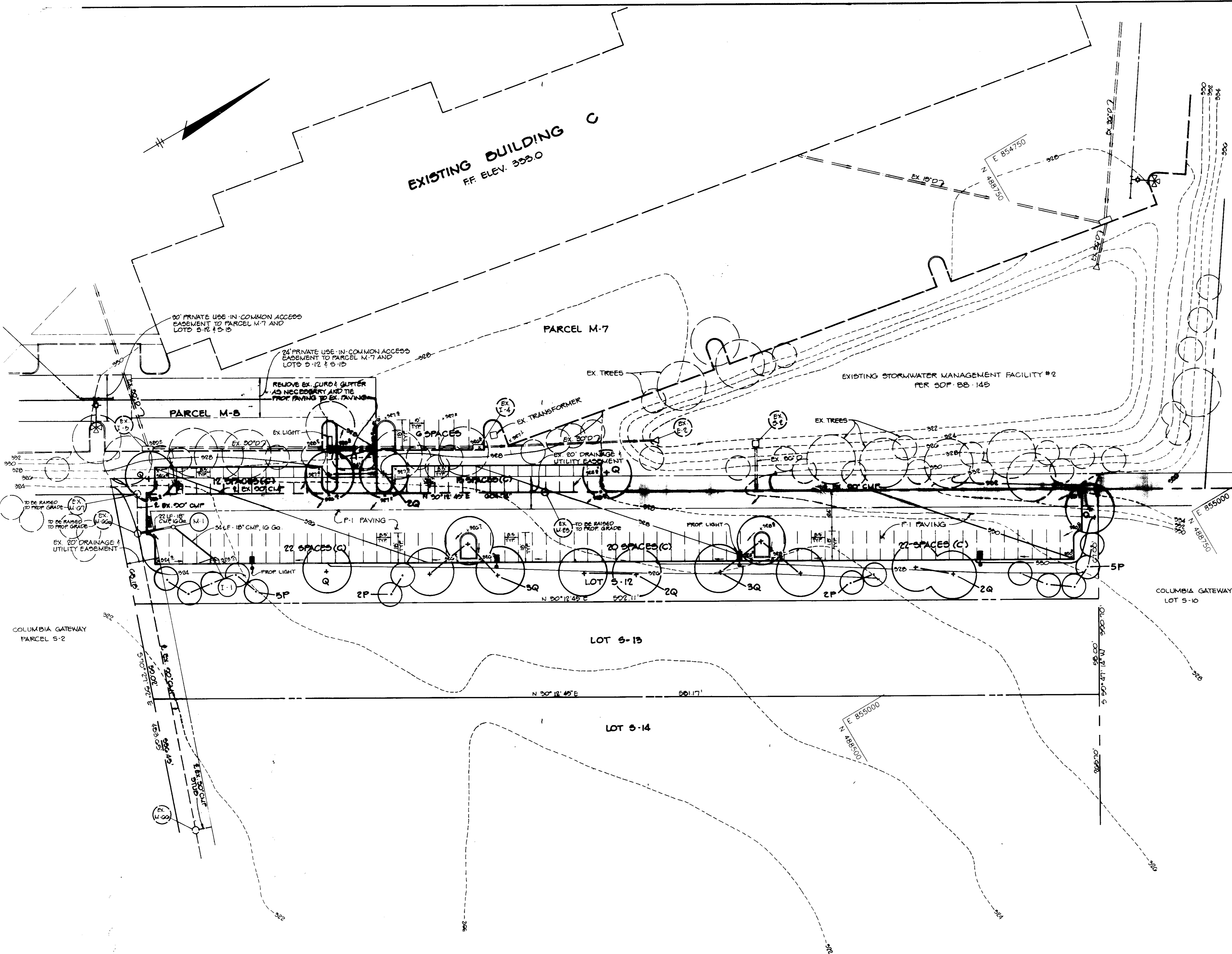
*Debra E. Ryan* 11/14/91  
 CHIEF, BUREAU OF ENGINEERING DATE

DATE NO.	REVISION
<b>OWNER / DEVELOPER</b>	
THREE POND M LIMITED PARTNERSHIP % SOUTH CHARLES REALTY CORP 25 SOUTH CHARLES STREET, SUITE 1300 BALTIMORE, MARYLAND 21201 (410) 528-2977	
<b>PROJECT</b>	
COLUMBIA GATEWAY PARCEL S-12	
<b>AREA TAX MAP 43</b> <b>ZONE M-1</b>	
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>TITLE</b>	
TITLE SHEET	

**RIEMER MUEGGE & ASSOCIATES, INC.**  
 A Land Planning, Engineering and Consulting Firm  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045  
 301-997-8900 FAX: 301-997-9282



SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #
COLUMBIA GATEWAY			S-12
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP
10131	?	M-1	43
WATER CODE		SEWER CODE	CENSUS TR
E-06		49000000	G065.02



NOTE:  
 1. ALL DIMENSIONS TO FACE OF BUILDING, FACE OF CURB OR CENTERLINE  
 2. (C) DENOTES COMPACT CAR SPACES

**PLANT LIST**

Symbol	Quantity	Name	Size	Remarks
Q	16	QUERCUS COCCINEA Scarlet Oak	2 1/2-3" Cal. 12-14" Hr.	B & R Full Ht.
P	14	PINUS STROBUS Eastern White Pine	2-2 1/2" Cal. 6-8" Hf.	B & R Natural

**SITE TABULATION**

TOTAL SITE AREA	0.921 Ac.
EXISTING ZONING	M - 1
PROPOSED USE	PARKING LOT
PARKING PROPOSED	87 COMPACT SPACES
AREA OF PARKING	0.631 Ac. (27,486 SF)
LANDSCAPED ISLANDS REQUIRED (5%)	0.031 Ac. (1374 SF)
LANDSCAPED ISLANDS PROPOSED (11.6%)	0.73 Ac. (3180 SF)
UNBUILT GREEN AREA	0.276 Ac. (12,023 SF)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Boyd* 11/14/91  
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF ZONING  
*James R. Rosta* 11/14/91  
 DIRECTOR

*Anna Helms* 11/14/91  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, DRAINAGE SYSTEMS AND UTILITIES  
*James G. Elm* 11/14/91  
 DIRECTOR

*William S. Rupp* 11/14/91  
 CHIEF, BUREAU OF ENGINEERING

DATE: 11/14/91 REVISION: 1

OWNER / DEVELOPER  
 THREE FOND LIMITED PARTNERSHIP  
 56 SOUTH CHARLES REALTY CORP  
 25 SOUTH CHARLES STREET SUITE 300  
 BALTIMORE, MARYLAND 21201  
 (410) 928-2077

PROJECT: **COLUMBIA GATEWAY  
 PARCEL 9-12**

AREA: TAX MAP 43 ZONE M-1  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**

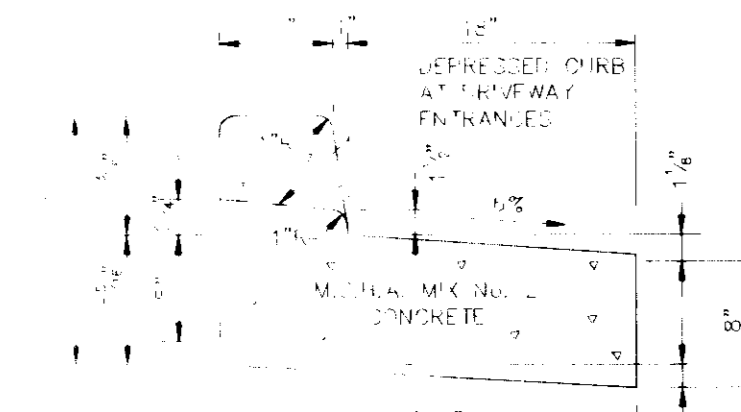
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 A Land Planning, Engineering and Consulting Firm  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21043  
 301-997-8900 FAX 301-997-9282

DATE: 11-6-91  
 DESIGNED BY: DAM  
 DRAWN BY: KAD  
 PREPARED BY: RMC  
 CHECKED BY: RMC

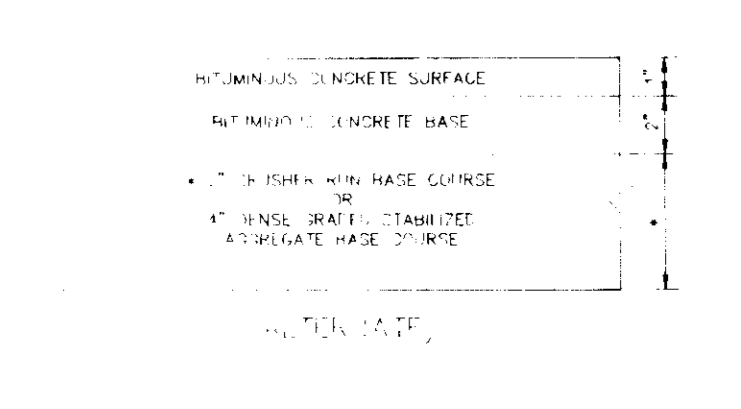
*William Muegge*



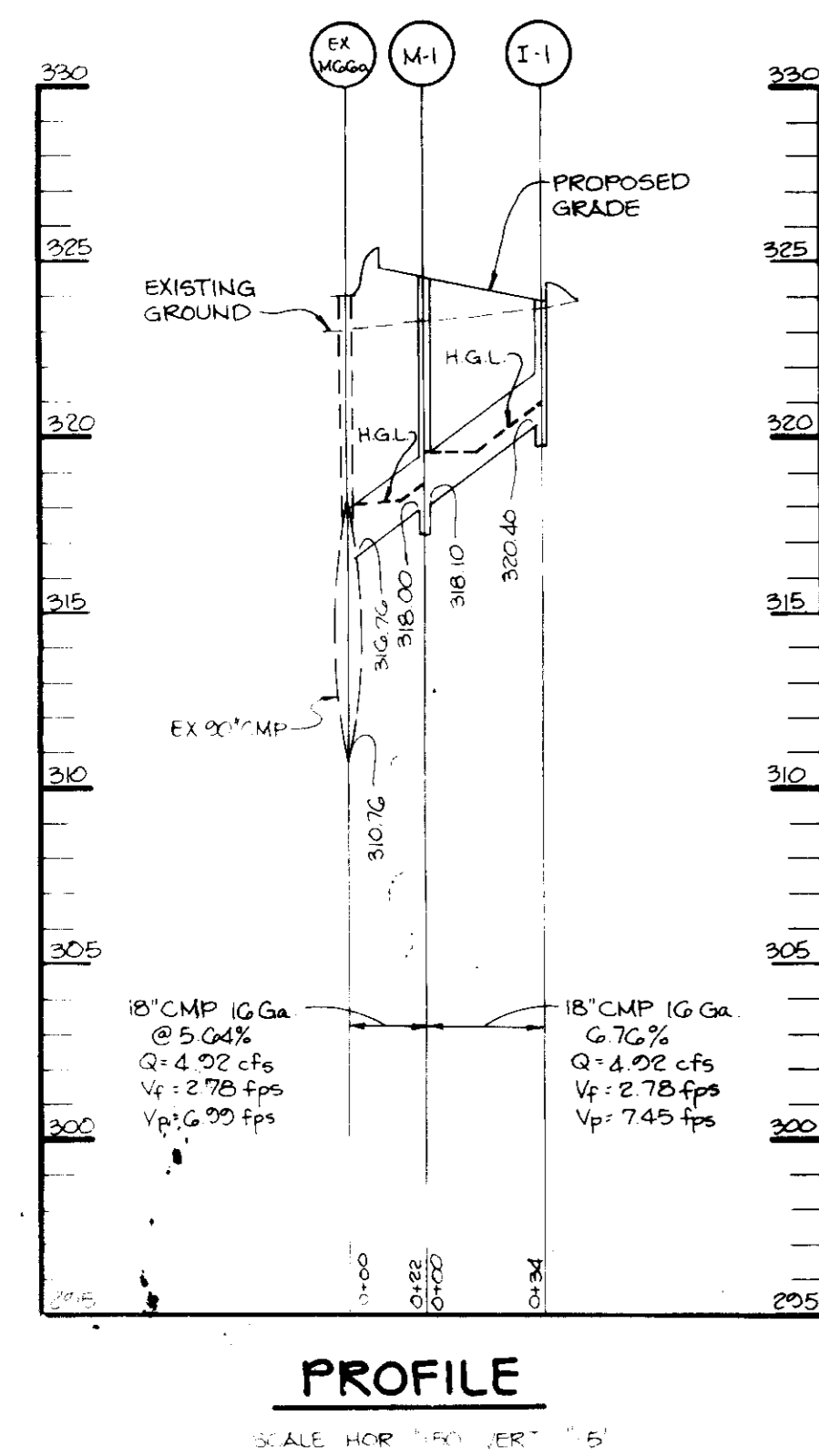
**STANDARD 7" COMBINATION CURB AND GUTTER**



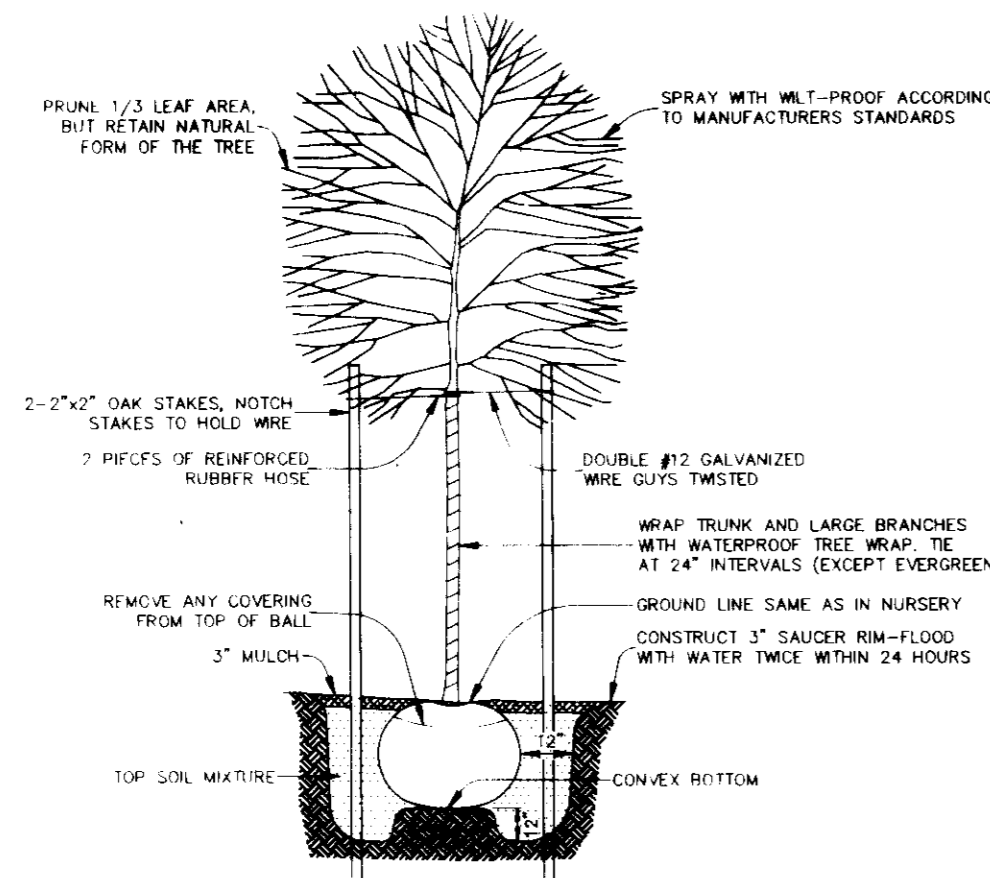
**REVERSE 7" COMBINATION CURB AND GUTTER**



**P-1 PAVING**

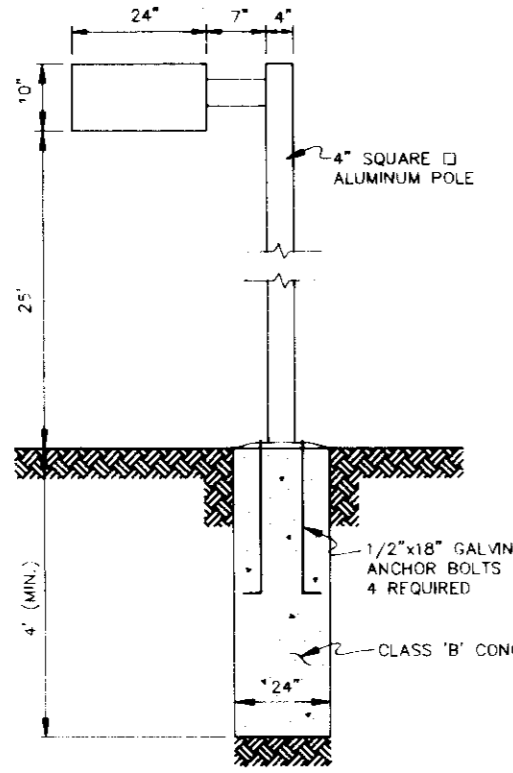


**TREE PLANTING DETAIL**



1. ALL LIGHT FIXTURES TO BE SINGLE LUMINAIRE 400 WATT MERCURY TYPE WITH METAL FIXTURES AND DIRECTED DOWNWARD.
2. LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THIS:
3. LIGHTS TO BE MODULE TYPE AS MANUFACTURED BY WILCOAST OR APPROVED EQUAL.
4. POLE AND FIXTURE TO HAVE BLACK POLYESTER ENAMEL FINISH.
5. POLE TO BE LOCATED 3" BACK FROM BACK OF CURB.

**LIGHT POLE DETAIL**



**PERMANENT SEEDING NOTES**

**Seedbed Preparation:** Flat areas and slopes up to 3:1 slope shall be loose and friable to a depth of 3 inches. The top 1/2 inch of soil shall be loosened by raking, disking or other acceptable means before seeding. Slopes steeper than 3:1 shall have the top 1 to 3 inches of soil loose and friable before seeding.

**Soil Amendments:** Use one of the following schedules:

Lime and fertilizer according to soil tests. Lime and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.

In lieu of soil test results, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 LBS/1000 SF) and 600 LBS per acre 10-10-10 fertilizer (14 LBS/1000 SF) 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 (01 LBS/1000 SF).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 LBS/1000 SF) and 1000 LBS per acre 10-10-10 fertilizer (23 LBS/1000 SF) before seeding. Harrow or disc into upper three inches of soil.

On slopes steeper than 3:1 slope, the lime and fertilizer shall be worked the best way possible. On sloping land, the final harrowing or disking operation should be on the contour wherever feasible. No attempt should be made to drop any disc area to make the soil surface smooth after disking.

**Seeding:**

For the periods March 1 thru April 30, and August 1 thru October 15. Seed with 80 LBS per acre (1.4) LBS/1000 SF of Kentucky 31 Top Fescue.

For the period May 1 thru July 31. Seed with 60 LBS Kentucky 31 Top Fescue per acre and 2 LBS per acre (05 LBS/1000 SF) of Weeping Lovegrass.

For the period October 16 thru February 28, protect site by: Option (1) 2 tons per acre well-rotted straw mulch and seed as soon as possible in the spring. Option (2) Seed with 40 LBS/acre (1.4 LBS/1000 SF) Kentucky 31 Top Fescue and mulch with 2 tons per acre well-rotted straw.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer) on a firm, moist seedbed. Maximum seeding depth should be 1/4 inch on sloping sites and 1/2 inch on sandy soils, when using other than hydroseeder method of application. Note: If hydroseeding is used and the seed and fertilizer is mixed, they shall be mixed on site and the seeding shall be immediate without interruption.

**Mulching:** See Mulching Specification.

**Irrigation:**

If soil moisture is deficient, supply new seedlings with adequate water for plant growth until they are firmly established. If feasible, this is especially true when seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

**Maintenance:**

Irrigation - If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation, if feasible.

**Repairs -** Inspect all seeded areas for failures and make necessary repairs, replacements, and reseeding within the planting season.

- 1) If stand is inadequate for erosion control, overseed and fertilize using half of the rates originally applied.
- 2) If stand is over 80% damaged, reestablish following original time, fertilizer, seedbed preparation and seeding recommendations.

**TEMPORARY SEEDING NOTES**

**Seedbed Preparation:**

When the area to be seeded has been recently loosened to the extent that an adequate seedbed exists, no additional treatment is required. However, when the area to be seeded is paved, crushed, or other hard surface, the top 3 inches of soil shall be loosened by raking, mowing or other acceptable means before seeding.

**Soil Amendments:**

For temporary seedings, fertilizer shall be applied at the rate of 600 LBS per acre (15 LBS/1000 SF), using 10-10-10 or equivalent. Sites which are highly acid should be limed.

**Seeding:**

For periods March 1 thru April 30 and August 1 thru November 15. Seed with 2 1/2 TONS per acre (2.2 LBS/1000 SF) of annual ryegrass.

For the period May 1 thru August 14. Seed with 2 LBS per acre (07 LBS/1000 SF) of Weeping Lovegrass.

For the period November 16 thru February 28, protect site by: Applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring, or use sod.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer).

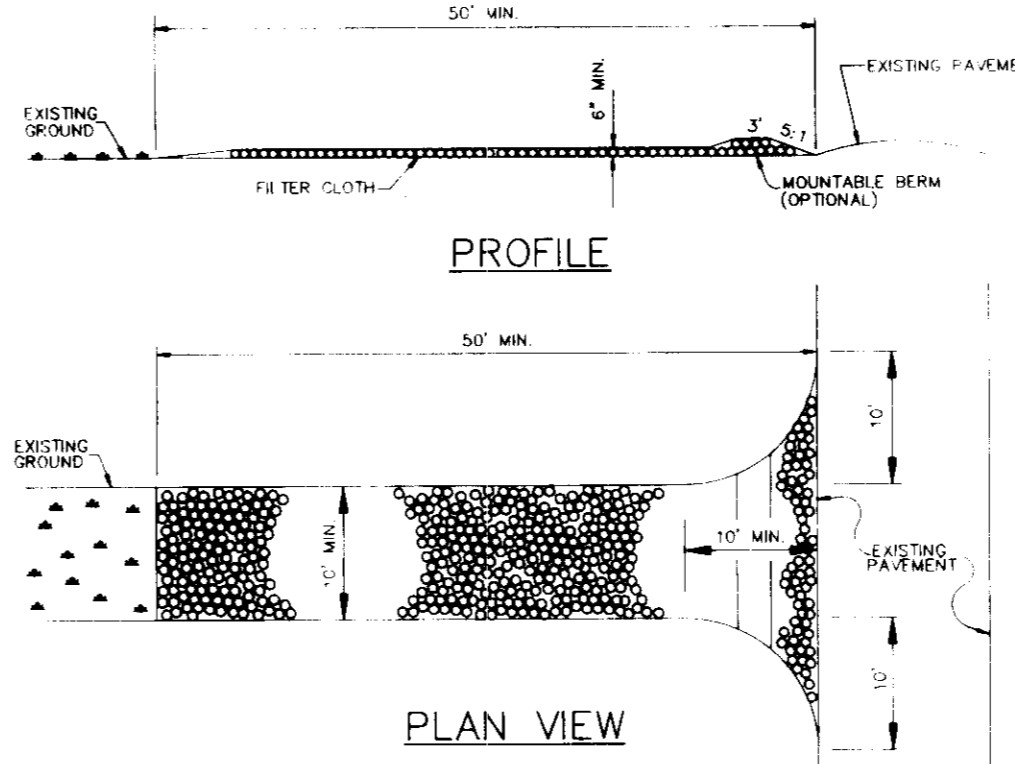
**Mulching:** See Mulching Specification.

**SEDIMENT CONTROL NOTES**

1. 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).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days for all permanent sediment control structures. Slats, perimeter slopes and all slopes greater than 3:1, by 14 days for all other disturbed or graded areas on the project site.
4. 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.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (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: 0.921 acres
  - Area to be roofed or paved: 1.091 acres
  - Area to be vegetatively stabilized: 0.406 acres
  - Total Cut: 3607 cu. yds
  - Total Fill: 1005 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 Department of Public Works Sediment Control Inspector.
10. Site grading will begin only after all permanent sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches chain out elevation shown on the plan.
12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between disposal, 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.

**STABILIZED CONSTRUCTION ENTRANCE**

NO SCALE



**CONSTRUCTION SPECIFICATIONS**

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

**STRUCTURE SCHEDULE**

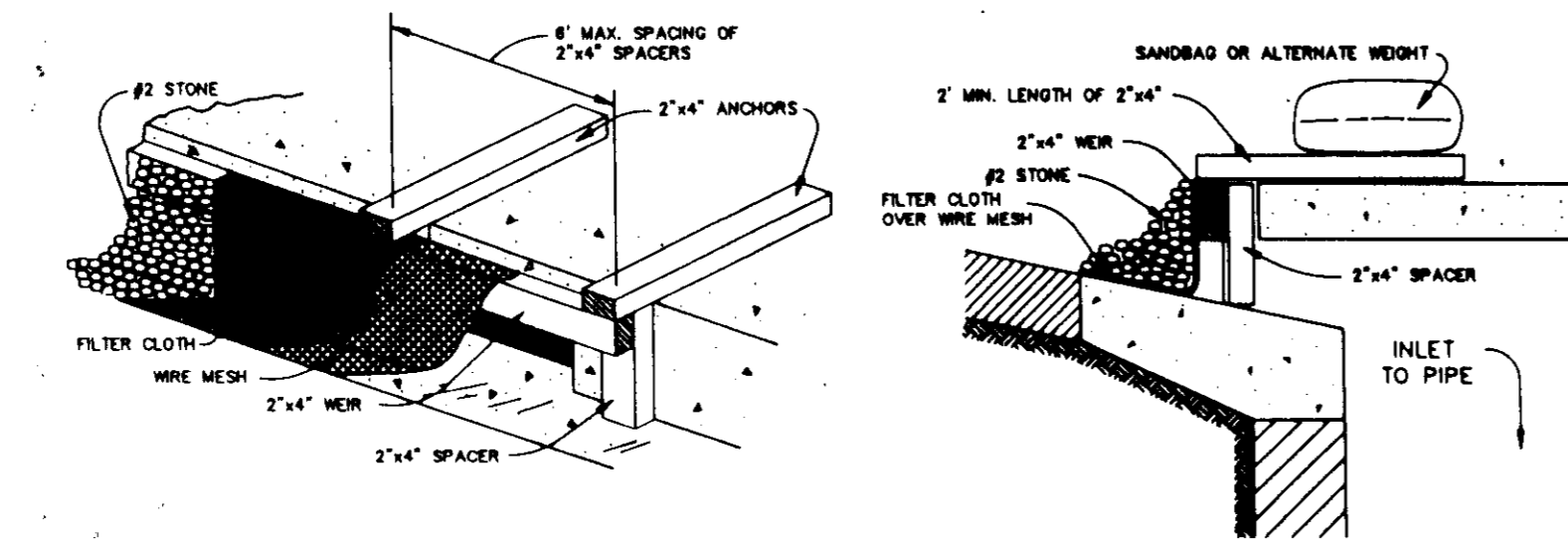
NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	5' COMB W/ RET GRATE	-	320.40	324.48	SEE HO. CO. STD. DET. SD-4.32 AND SD-4.33
M-1	4'-0" DIA. PRECAST MANHOLE	318.10	318.00	324.50	SEE HO. CO. STD. DET. G-5.12

**CONSTRUCTION SPECIFICATIONS**

- A. WOODEN FRAME IS TO BE CONSTRUCTED OF 2"x4" CONSTRUCTION GRADE LUMBER.
  - B. WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC, AND STONE, WITH WATER FULLY IMPONDED AGAINST IT.
  - C. FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE, RESISTANT TO SUNLIGHT WITH A SEWE SIZE, EOE 40-65, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
  - D. STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.
- PROCEDURE FOR CURB INLET PROTECTION**
- A. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MIN. WIDTH BY THROAT LENGTH PLUS 4") TO THE 2"x4" WIRE (MEASURING THROAT LENGTH PLUS 4") AS SHOWN ON THE STANDARD DRAWING.
  - B. PLACE A PIECE OF APPROVED FILTER CLOTH (40-65 REVE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2"x4" WIRE.
  - C. SECURELY NAIL THE 2"x4" WIRE TO 8" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WIRE AND INLET FACE (NAIL 8" APART).
  - D. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS) OF 2"x4" 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 SANDBARS OR ALTERNATE WEIGHT.
  - E. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING.
  - F. FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 1" STEEL BARS 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.
  - G. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
  - H. 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



BY THE ENGINEER:  
I HAVE REVIEWED THESE PLANS AND WILL BE DONE IN ACCORDANCE WITH THE RESPONSIBLE PERMITTING AND INSPECTION PROJECT WILL BE UNDER THE SUPERVISION OF THE DEPARTMENT OF THE HOWARD COUNTY BEFORE BEGINNING THE PROJECT. PERIODIC CONSTRUCTION INSPECTIONS AND CONSERVATION DISTRICTS.

THREE POND M LIMITED PARTNERSHIP  
2301 W. WASHINGTON ST.  
Baltimore, MD 21202  
By: R.B. DIFRANCESCO, P.E., Vice President  
DEVELOPER

BY THE ENGINEER:  
I CERTIFY THAT THE ENGINEER HAS CONTROL HEREIN AND THAT THE WORK IS BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT I AM FAMILIAR WITH THE REQUIREMENTS OF THE CONSERVATION DISTRICTS.

Allen E. Mung  
ENGINEER

THESE PLANS HAVE BEEN REVIEWED BY THE CONSERVATION DISTRICTS AND APPROVED FOR CONSTRUCTION.

James M. Holm / JMH  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN AND NEIGHBORHOOD PLAN IS APPROVED BY THE DISTRICT.

John R. Plakston  
HOWARD COUNTY ENGINEER

APPROVED BY THE HEALTH DEPARTMENT:

Joanne M. Bayland per JSM  
HEALTH DEPARTMENT

APPROVED BY THE HOWARD COUNTY ZONING DEPARTMENT:

Joseph S. Smith  
DIRECTOR

Elmira J. Helms  
CHIEF, DIVISION OF PLANNING AND DEVELOPMENT

APPROVED BY THE HOWARD COUNTY ENGINEERING DEPARTMENT:

James G. Blum  
DIRECTOR

DR. William S. P. King  
CHIEF, BUREAU OF ENGINEERING

DATE: NO. \_\_\_\_\_

OWNER / DEVELOPER:

THREE POND M LIMITED PARTNERSHIP  
96 SOUTH CHARLES REALTY CORP.  
25 SOUTH CHARLES STREET, SUITE 300  
BALTIMORE, MARYLAND 21202  
(410) 528-2075

PROJECT: **COLUMBIA GATEWAY PARCEL 5-12**

3-4-72 TAX MAP 43  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

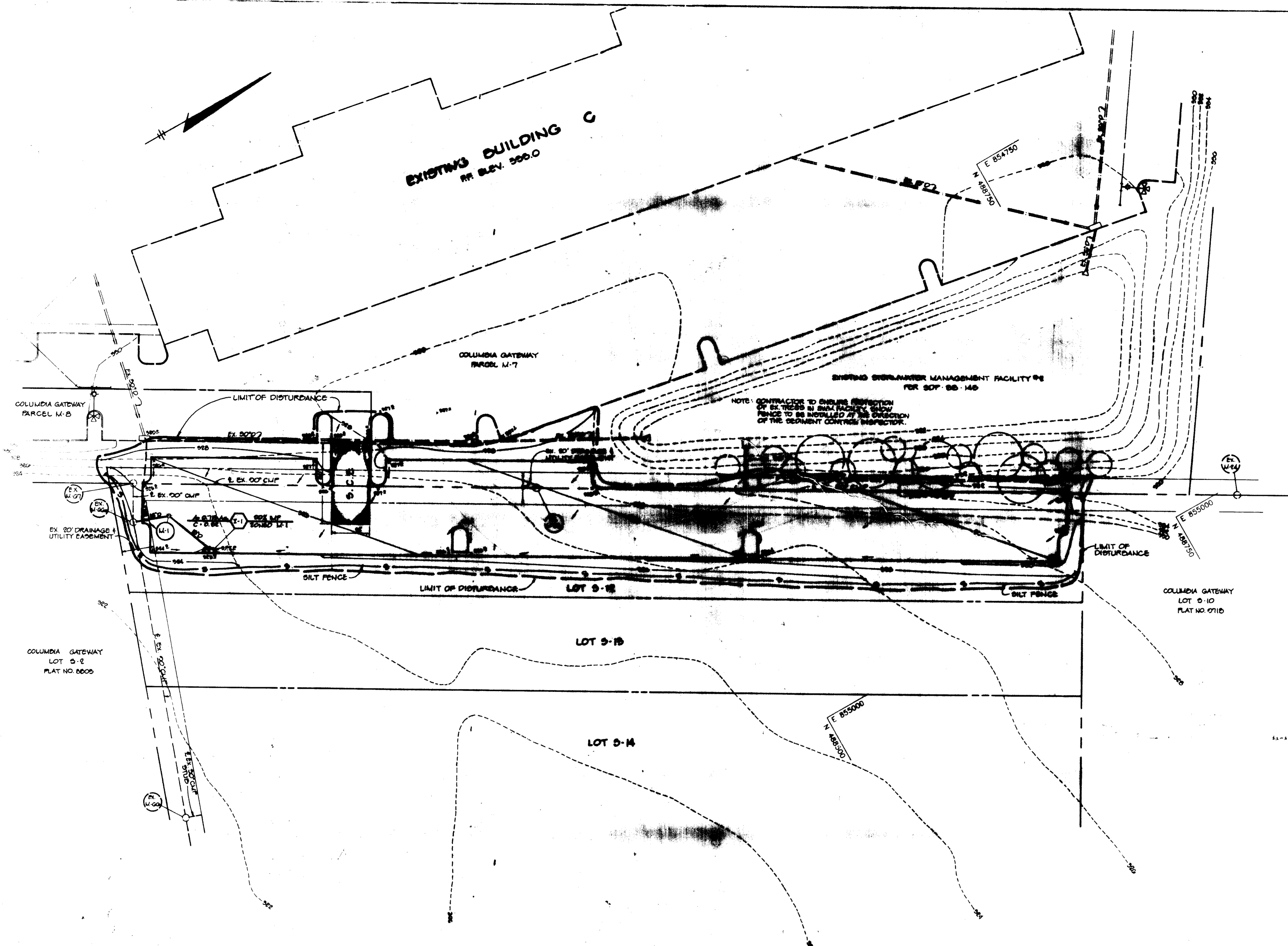
TITLE: **DETAIL SHEET**

RIEMER ALLEGRE & ASSOCIATES  
A Land Planning, Engineering and Consulting Firm  
8818 Centre Park Road, Suite 200  
301-905-8900

11-6-91  
DATE

SEAL OF THE ENGINEER

Allen E. Mung



BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL EMPLOYED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A PROGRAM 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.

THREE POND M LIMITED PARTNERSHIP  
 DEVELOPER  
 DATE 11/2/91

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.

ARTHUR E. MUEGGE  
 ENGINEER  
 DATE 11-6-91

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

JAMES M. HALL / JMH  
 U.S. SOIL CONSERVATION SERVICE  
 DATE 11/3/91

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

J. R. PETERSON  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE 11/2/91

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

JAMES M. BRADSHAW  
 COUNTY HEALTH OFFICER  
 DATE 11/14/91

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

JAMES S. RAY  
 DIRECTOR  
 DATE 11/14/91

ELMINA HORNATH  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE 11/14/91

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

JAMES S. RAY  
 DIRECTOR  
 DATE 11/14/91

CHRISTOPHER S. RAY  
 CHIEF, BUREAU OF ENGINEERING  
 DATE 11/14/91

DATE NO. REVISIONS

OWNER / DEVELOPER  
 THREE POND M LIMITED PARTNERSHIP  
 26 SOUTH CHARLES REALTY CORP.  
 25 SOUTH CHARLES STREET  
 BALTIMORE, MARYLAND 21201  
 (410) 526-2977

PROJECT COLUMBIA GATEWAY PARCEL 9-12

AREA TAX MAP 48 ZONE M-1  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE GRADING, SEDIMENT CONTROL AND DRAINAGE AREA MAP

RIEMER MUEGGE & ASSOCIATES, INC.  
 A Land Planning, Engineering and Consulting Firm  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21046  
 301-997-8900 FAX 301-997-9290

11-6-91  
 DATE

SOP 88-148  
 SOP 87-125  
 W-02-87

DESIGNED BY CJR  
 DRAWN BY WAD  
 PLOTTED BY 82000  
 DATE NOV. 6, 1991  
 SCALE 1"=50'  
 SHEETS 4 OF 4

ARTHUR E. MUEGGE #8707