	SHEET INDEX						
NO.	DESCRIPTION						
1	TITLE SHEET						
2	SITE DEVELOPMENT PLAN						
3	CONSTRUCTION DETAILS						
4	OIL/GRIT SEPARATOR DETAILS & STORM DRAIN/S.W.M. PROFILE						
5	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP						
6	SEDIMENT CONTROL NOTES & DETAILS						
7	I ANDSCAPE PLAN & ENVIRONMENTAL ANALYSIS						

# GENERAL NOTES

- 1. ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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
C&P TELEPHONE COMPANY		725-9976
HOWARD COUNTY BUREAU OF UTILITIES		313-4900
AT&T CABLE LOCATION DIVERSION		393-3553
BALTIMORE GAS & ELECTRIC COMPANY		685-0123
STATE HIGHWAY ADMINISTRATION		531-5533
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.
- 7. ALL PIPE ELEVATIONS SHOWN ARE INVERT 👉 ELEVATIONS.
- 8. 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.
- 11. TOPO TAKEN FROM FIELD RUN SURVEY DATED JUNE, 1991 BY RIEMER MUEGGE AND ASSOCIATES, INC.
- 12. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 13. 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.
- 14. 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.
- 15. 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 PRETREATMENT 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 WATER 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.
- 16. STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED BY AN UNDERGROUND INFILTRATION FACILITY.

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. IF THE PAVING SECTION REQUIRED IS LESS THAN THE COUNTY MINIMUM, APPROVAL FROM THE COUNTY WILL BE NECESSARY.

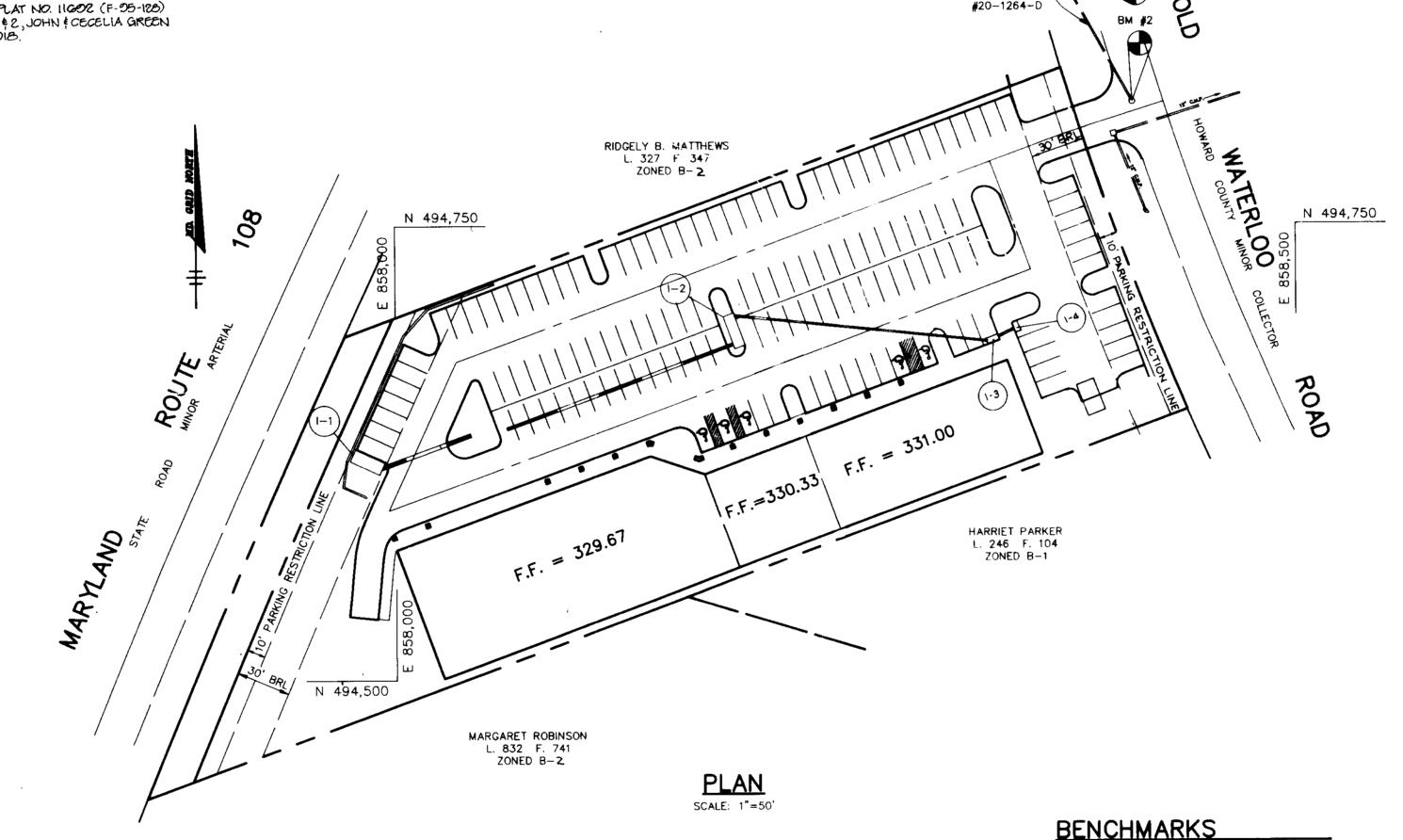
  THERE ARE NO NONTIDAL WETLANDS OR 100 YR FLOODPLAIN ON SITE.
- THERE ARE NO HONTIDAL WEIGHT DOOR NO.

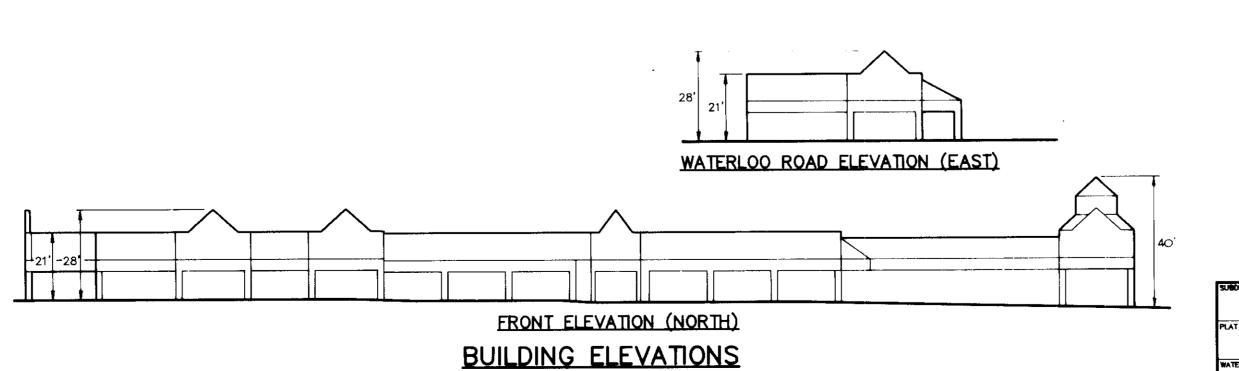
### SITE ANALYSIS

2.271 Ac. (98,925 sq.ft.) PARCEL A PRESENT ZONING B-2 PROPOSED USE OF STRUCTURE COMMERCIAL/RETAIL FLOOR SPACE: 12,875 sq.ft RETAIL FOOD STORE 9,900 sq.ft. 22,775 sq.ft RETAIL TOTAL: PARKING REQUIRED @ 2 SPACE/ 200 sq.ft. AVAILABLE TO PUBLIC RETAIL FOOD STORE 10,945 sq.ft./200 55 ● 1 SPACE/200 sq.ft. RETAIL: 9,900 sq.ft./200 50 TOTAL: PARKING PROVIDED 139 SPACES (INCLUDES 5 HANDICAP SPACES)

# SITE DEVELOPMENT PLAN 108-WATERLOO PROPERTY 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

- 19. ZONING BOARD CASE #878M WAS A REQUEST TO REZONE PROPERTY FROM R-12 TO B-1, DATED 2/G/91. ZONED B-Z. PER THE 10/18/93 COMPARISIVE ZONING PLAN.
- 20, WP-94-57 WAS GRANTED ON APRIL 20, 1994 FOR REQUEST TO WAIVE SECTION 16.156 (K) TO PERMIT A 180 DAY EXTENSION TO SUBMIT THE ORIGINAL DRAWINGS FOR SIGNATURE
- EI. ALL RUNOFF FROM THE ROOF 15 TO BE DIRECTED
  TOWARDS THE PARKING LOT. NO ROOF LEADERS
  SHALL BE DIRECTED TOWARD ADJACENT PROPERTIES
- 22. SUBJECT PROPERTY IS RECORDED ON PLAT NO. 11GOZ (F-95-128)
  WHICH IS A RESUBDIVISION OF LOTS 1 & 2, JOHN & CECELIA GREEN
  PROPERTY AS SHOWN ON PLAT NO. 4918.





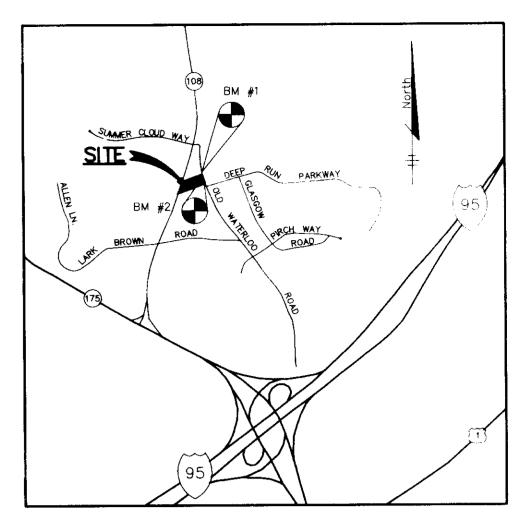
SEWER MANHOLE COVER 55'± NORTH OF NORTHEASTERN MOST PROPERTY CORNER. 15'± FROM EXISTING EDGE OF PAVING ON OLD WATERLOO ROAD.

BM #2 ELEV. 334.65

BM #2 ELEV. 334.65

SEWER MANHOLE COVER 32'± EAST OF SITE, IN PAVING
ON OLD WATERLOO ROAD AND 5'± NORTH OF & OF
PROPOSED DRIVEWAY ENTRANCE.

į		A	DRESS	CHART	
:	PARCEL		S.	TREET ADDRESS	
	Ą	65	IG OLD WAT	erloo road	
NAME - WATERL	00 PROPERT	Y	SECT./AREA -	PAROEL	A
	BLOCK # -	ZONNIG -	TAX MAP NO	ELECT. DIST	CENSUS TRACT -
3CO11	20	B-2	37	6th	6067.03
DE -	108		SEWER CODE	3460000	)



VICINITY MAP

AS BUILT CERTIFICATE DATE APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. CHIEF, DIVISION OF LAND DEVELOPMENT THE AND RESEARCH APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. ENDINEERING OD 7/19/65 REVISION DATE NO. OWNER / DEVELOPER SPARROW II JOINT VENTURE 9175 GUILFORD ROAD SUITE 501 COLUMBIA, MARYLAND 21046 108-WATERLOO PROPERTY A COMMERCIAL CENTER TAX MAP 37 PARCEL A PLAT 11602 ZONED B-2 6th ELECTION DISTRICT HOWARE, COUNTY, MARYLAND TITLE SHEET A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 4\0-997-8900 FAX: 4\0-997-9282 10.11.91

DAYKANT D. PAREKH #10140

DESIGNED BY : CB

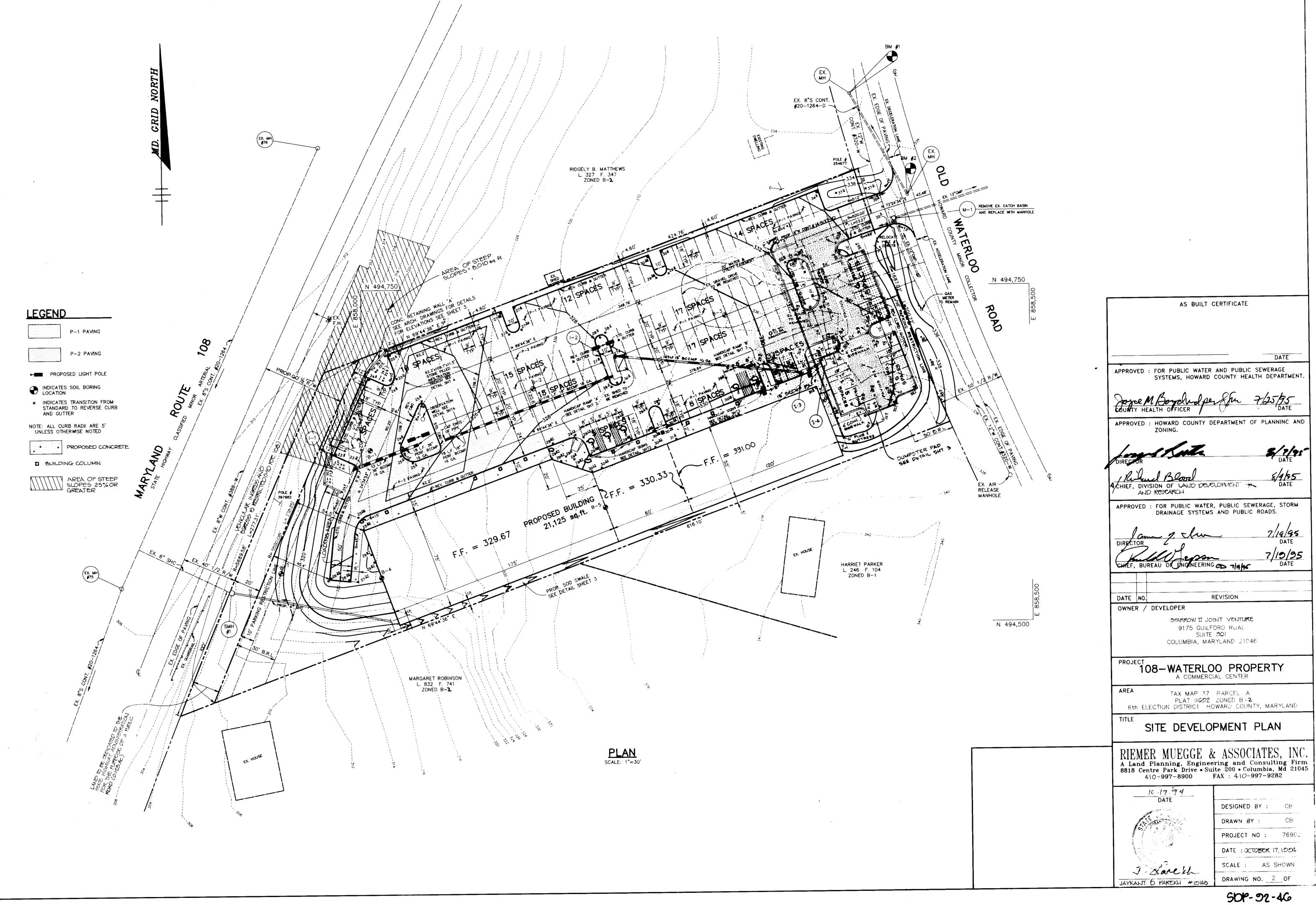
DATE : OCTOBER 17, 1994

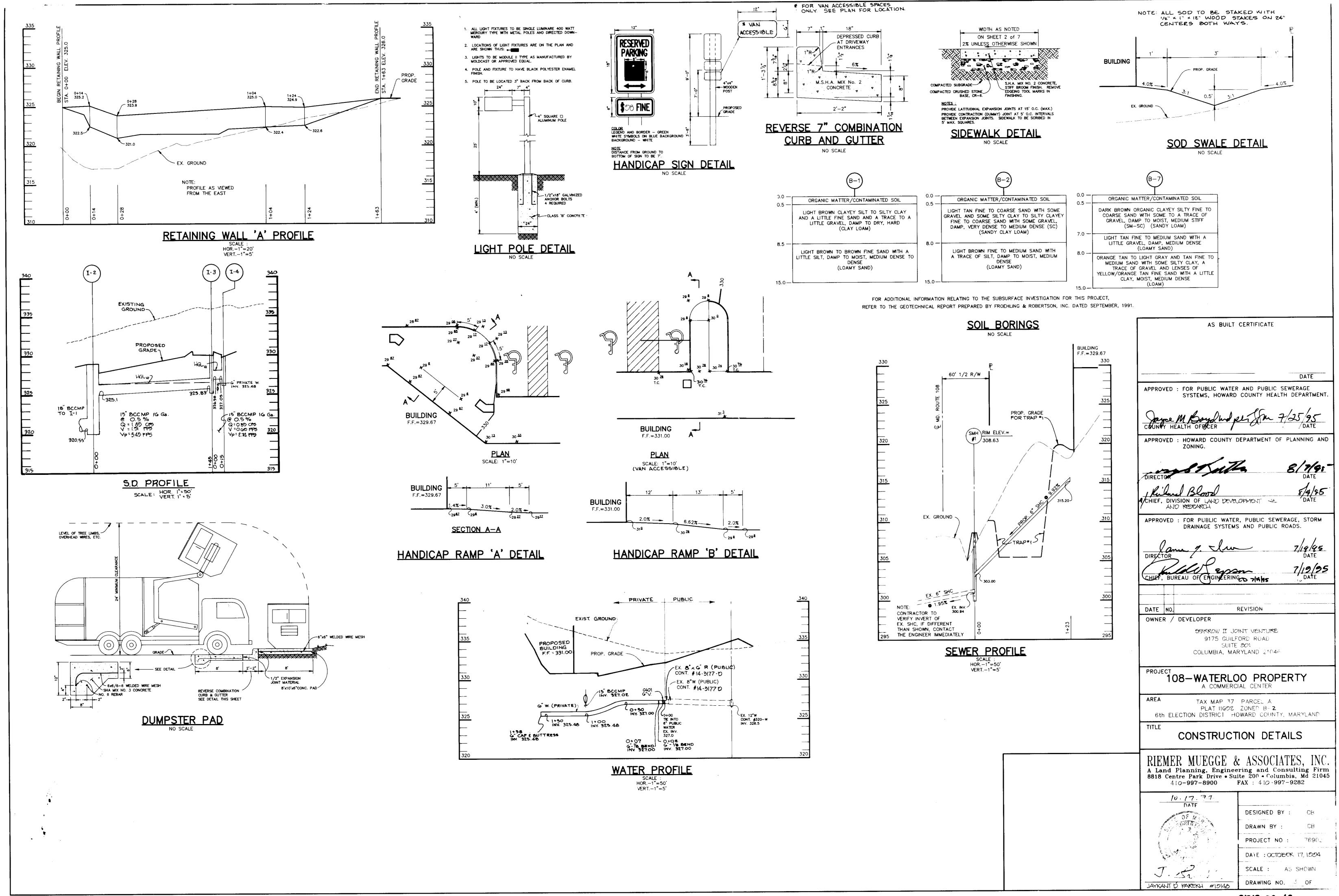
SCALE : AS SHOWN

DRAWING NO. 1 OF

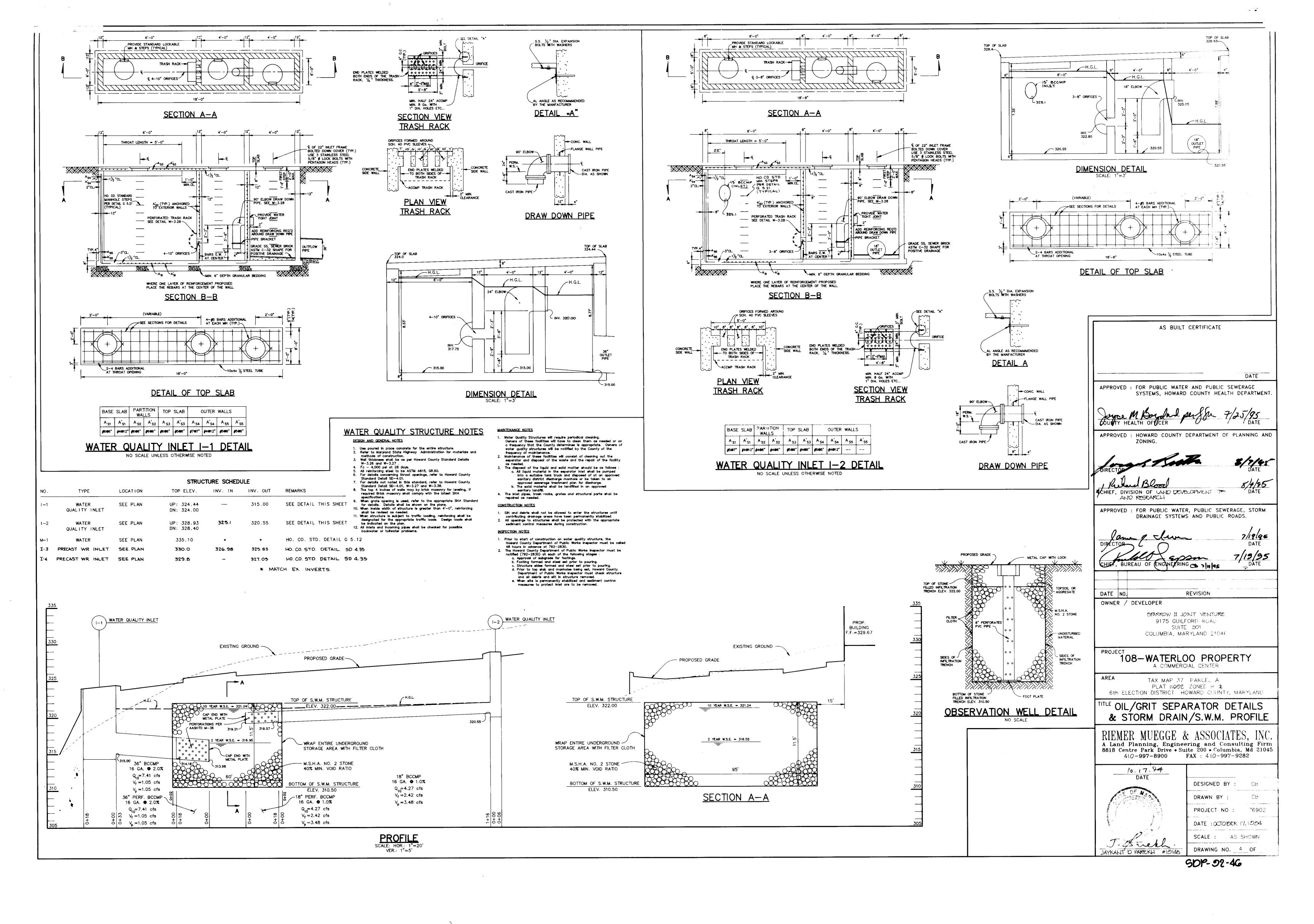
DRAWN BY

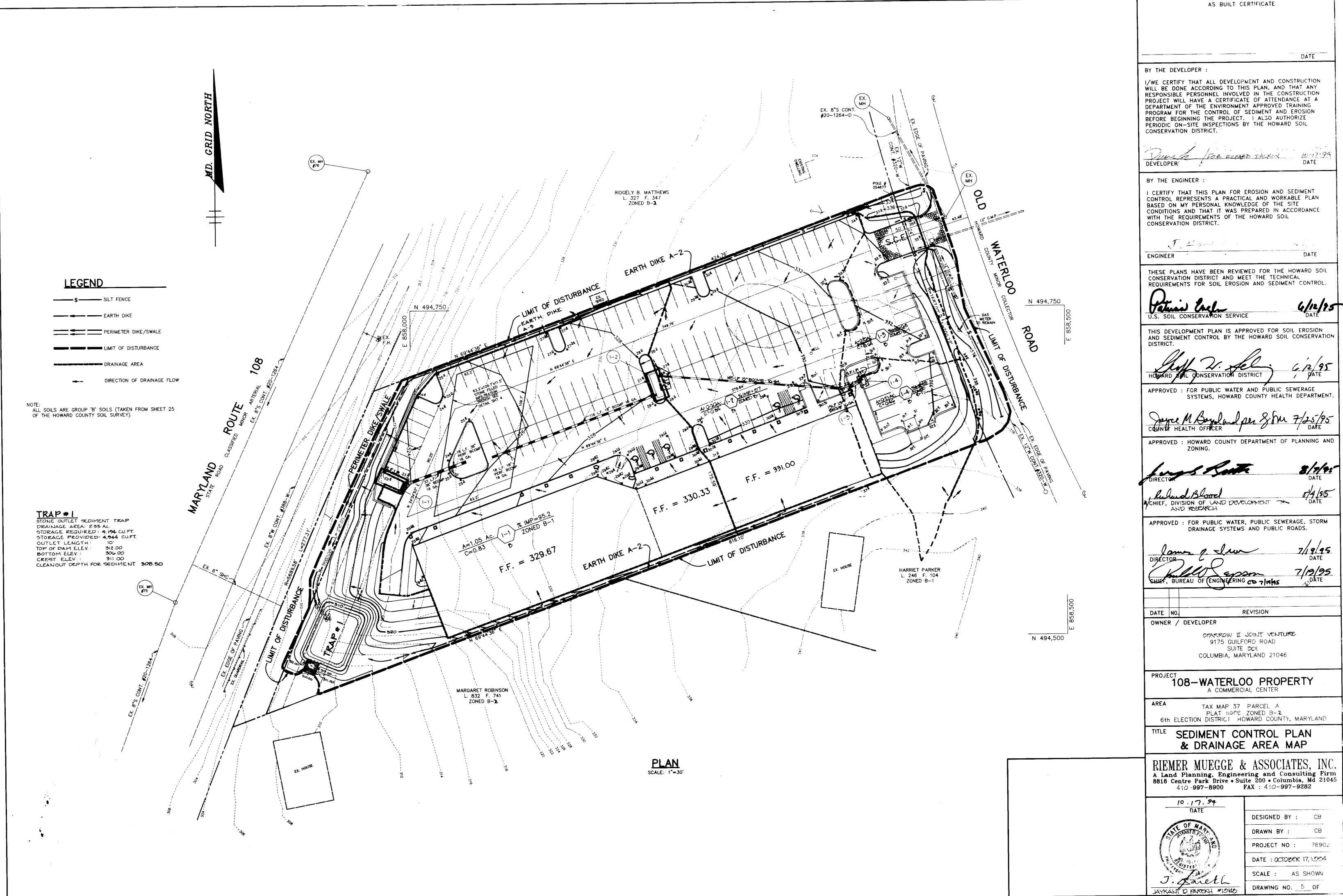
PROJECT NO :



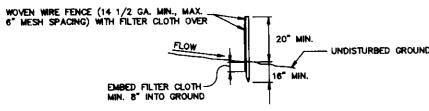


9DP-92-46





### PERSPECTIVE VIEW



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE . Woven wire fence to be fastened securely to fence posts with wire ties or staples 2. Filter cloth to be factored securely to woven wire fence with ties spaced 3. When two sections of filter cloth adjoin each other they shall be overlapped

4. Maintenance shall be performed as needed and material removed when "bulges"

POSTS: Steel, either T or U type or 2" hardwood.
FENCE: Woven wire, 14 Ga., 6" max. meeh opening.
FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or approved equal.

SILT FENCE DETAIL

### 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

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.).
- 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 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use sod.

replacements and reseedings

3) 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 (70 to 90 lbs. per 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. 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.

### TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

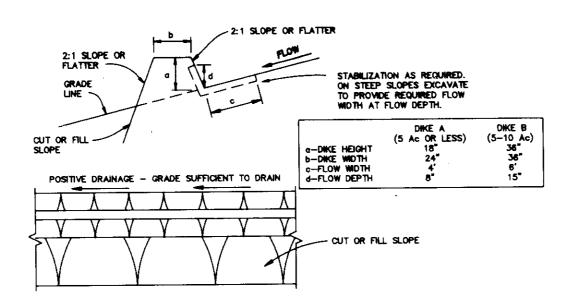
Seedbed Preparation: Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously

Soil Amendments: Apply 600 lbs. per gcre 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 rye (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 sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 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. 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.



### CONSTRUCTION SPECIFICATIONS

- 1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- 2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- . TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC. 4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- 5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR
- DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B)

### FLOW CHANNEL AS PER THE CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-3.0%	SEED & STRAW MULCH	SEED & STRAW MULCH
2	3.1-5.0%	SEED & STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STON

FLOW CHANNEL STABILIZATION

- A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH
- B. RIPRAP TO BE 4—8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

# EARTH DIKE

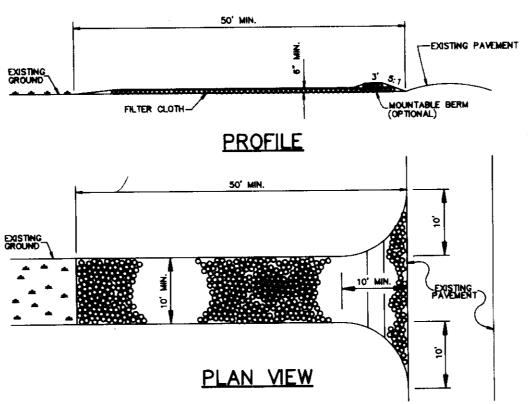
### SEDIMENT CONTROL NOTES

- 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 (992-2437).
- 2. 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 AND EROSION CONTROL.
- 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 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 greas 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 (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

### 7. Site Analysis

	0.70
Total Area of Site	2.39 acres
Area Disturbed	2.43 acres
Area to be roofed or paved	1.73 acres
Area to be vegetatively stabilized	0.70 acres
	8,445 cu.yd
Total Cut See notes 12 & 13 below	3,250 cu.yd

- 8. 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 Licenses and Permits Sediment Control Inspector.
- 10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- 11. Sediment will be removed form traps when its depth reaches clean out elevation shown on the plans.
- 12. Cut and fill quantities provided under site analysis do not represent bid 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.
- 13. Borrow site to be pre-approved by Sediment Control Inspector. Or, in case of excess material, an approved sediment control plan will be needed to deposit excess off-site.
- M. 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 APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS APPROVAL BY THE INSPECTION AGENCY IS MADE.



### CONSTRUCTION SPECIFICATIONS

- Stone Size Use 2" stone, or recipied or recycled concrete equivalent.
   Langth As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).
   Thickness Not less, than six (6) inches.
- . Width Ten (10) foot minimum, but not less than the full width at points where ingress and egrees occurs.

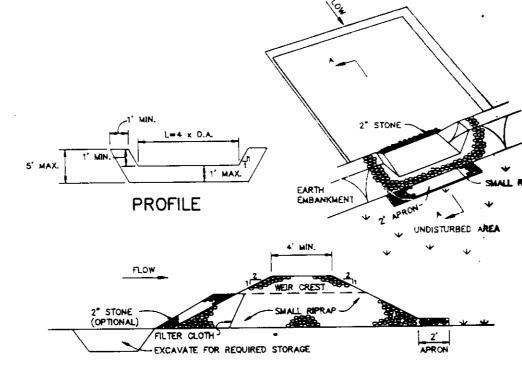
  5. Filter Cloth — Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.

  6. Surface Water — All surface water flowing or diverted toward construction entrancements.
- shall be piped across the entrance. If piping is impractcal, a mountable berm with 5:1 slopes will be permitted.

  Maintenance The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights—of—way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment splited, dropped, washed or tracked
- nto public rights—of—way must be removed immedi . Washing — Wheels shall be cleaned to remove sediment prior to entrance onto public rights—of—way. When washing is required, it shall be done on on orea stabilized with stone and which drains into an approved sediment trapping device.

  Periodic inspection and needed maintenance shall be provided after each rain.

# STABILIZED CONSTRUCTION ENTRANCE

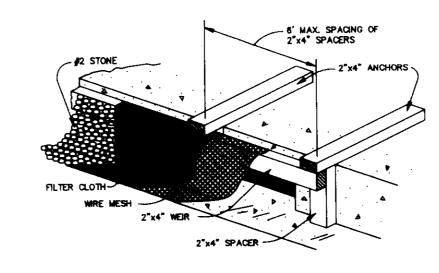


### CROSS SECTION A-A

### OPTION: A ONE FOOT LAYER OF 2° STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH. CONSTRUCTION SPECIFICATIONS

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- 4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1"
  THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP
  OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
- 5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAN EROSION AND WATER POLLUTION IS MINIMIZED. 8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

# STONE OUTLET SEDIMENT TRAP



## 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 IMPOUNDED AGAINST IT.
- C. FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE; RESISTANT TO SUNLIGHT WITH A SEIVE SIZE, EOS 40—85, 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.
- A. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30° MIN. WIDTH BY THROAT LENGTH PLUS 4') TO THE 2"x4" WEIR (MEASURING THROAT LENGTH PLUS 2') AS SHOWN ON THE STANDARD DRAWING.
- B. 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" WEIR.
- C. SECURELY NAIL THE 2"x4" WEIR TO 9" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WEIR AND INLET FACE (MAX. 6' APART).

2' MIN. LENGTH OF 2"x4

PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2' LENGTHS) OF 2"x4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THESE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.

TO PIPE

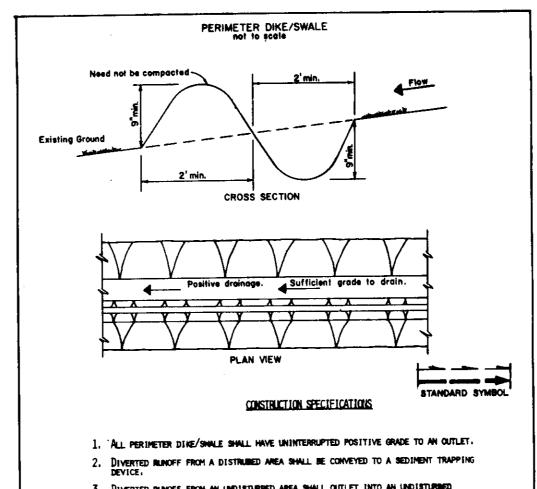
- THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING. FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE
- G. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT. ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.

# STONE FILTER INLET PROTECTION

### SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT.
- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SILT FENCE AND TRAP #1.
- 3. ROUGH GRADE SITE, MINIMIZE CONSTRUCTION TRAFFIC OVER INFILTRATION AREA.
- 4. BRING SITE TO SUBGRADE. INSTALL WATER CONNECTION AND WATER QUALITY STRUCTURES I-1 AND I-2. INSTALL STONE FILTER INLET PROTECTIONS ON I-1 AND I-2.
- 5. INSTALL CURB & GUTTER AND GRAVEL BASE FOR PAVING, EXCEPT FOR THAT IN THE LOADING AREA ON THE WEST END OF THE BUILDING. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES, AND BEGIN BUILDING CONSTRUCTION.
- 6. COMPLETE BUILDING CONSTRUCTION. INSTALL INFILTRATION AREA AND STORM DRAIN PIPES, AND UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE TRAP #1.
- 8. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING

SEDIMENT CONTROL DEVICES AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL IN ACCORDANCE



WITH PERMANENT SEEDING NOTES.

6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN Max. Drainage Area Limit: 2 Acres U.S. DEPARTMENT OF AGRICULTURE

COLLEGE PARK, MARYLAND

PERIMETER DIKE/SWALE

PDS-I

 Diverted runoff from an undisturbed area shall outlet into an undisturbed stabilized area at non-erosion velocity. THE SHALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SNALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 10 DAYS.

### 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.

- Luone of FOR RICHARD TALKIN 10-17-DEVELOPER

AS BUILT CERTIFICATE

### BY THE ENGINEER :

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

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

100

DATE

SOIL CONSERVATION SERVICE

The said of

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

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

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND



AND RESEARCH APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM

DRAINAGE SYSTEMS AND PUBLIC ROADS.

ENGINEERING CD 7/4/45

REVISION

DATE NO. OWNER / DEVELOPER

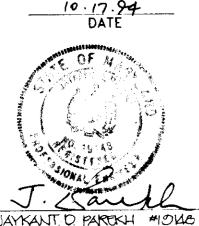
> SPARROW II JOINT VENTURE 9175 GUILFORD ROAD SUITE 301 COLUMBIA, MARYLAND 21046

### 108-WATERLOO PROPERTY A COMMERCIAL CENTER

AREA TAX MAP 37 PARCEL A PLAT 11602 ZONED B-2 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND SEDIMENT CONTROL

RIEMER MUEGGE & ASSOCIATES, INC A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 FAX : 410-997-9282410-997-8900

NOTES & DETAILS



DESIGNED BY : CB DRAWN BY PROJECT NO: 76902 DATE : OCTOBER 17, 1994 AS SHOWN

DRAWING NO. 6 OF

