



Item	Quantities	Material Supplier
8" Sewer P.V.C.	234 LF	355 LF J.M. Manufacture
Manholes	24, 3VF	3 EA Dewey Brothers
8" Water	208 LF	219 LF Griffin Pipe
8" 1/2 Horizontal Bend	1	1 EA HARRINGTON MAN
8" Tee	2	2 EA
8" G Reducer	1	1 EA
8" Water	57 LF	117 LF
8" Valve	2	2 EA
Fire Hydrants	2	2 EA Griffin Pipe
12" B.T.S. & V	1	1 EA
12" W.T.S. & V	1	1 EA Griffin Pipe
8" Sewer D.I.P.	N/A	N/A

**RIP RAP CONSTRUCTION REQUIREMENTS**

- THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS A FIRST ORDER OF BUSINESS.
- PROVISIONS MUST BE MADE TO ANCHOR THE RIPPAP AT THE STREAM BED SO AS TO PREVENT PILING UP AGAINST UNDERMINING IF THIS CANNOT BE ACCOMPLISHED BY EXTENDING THE TIE TRENCH AS INDICATED IN CROSS SECTION, AN ALTERNATIVE METHOD OF PROTECTION MUST BE REVIEWED AND WRITTEN APPROVAL OF THE ADMINISTRATION.
- EXCAVATION FOR RIPPAP SHALL BE MADE REASURABLY CLOSE TO THE EXISTING STREAM BANK AND TO THE BURY LINE.
- A FILTER BED SHALL BE PLACED UNDER THE RIPPAP. THE FILTER SHALL CONSIST OF EITHER A BANK FULL GEOTEXTILE OR A GEOTEXTILE FILTER FABRIC MEETING THE SPECS OF 1118 ABOVE.
- THE PLACEMENT OF RIPPAP SHALL BEGIN WITH THE TIE TO THE LARGE RIPPAP SPINES SHALL BE PLACED IN THE TIE AND ALONG THE OUTSIDE EDGES OF THE LIMITS OF THE SLOPE AND CHANNEL PROTECTION. THE RIPPAP SHALL BE PLACED WITH SUITABLE EQUIPMENT IN SUCH A MANNER AS TO PRODUCE A REASONABLY GRADED MASS OF STONES WITH ZERO DEAD HEIGHT. THE PLACING OF STONES THAT CAUSE EXTENSIVE SEGREGATION IS NOT ALLOWED.
- ANY EXCAVATION Voids EXISTING ALONG THE EDGES OF THE COMPLETE SLOPE AND CHANNEL PROTECTION SHALL BE BACKFILLED IN ACCORDANCE WITH AN APPROVED EROSION CONTROL PLAN.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-88-18

HOWARD SOIL CONSERVATION DISTRICT:  
 REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 DATE: 5-6-88

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 5/6/88

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

**THE RIEMER GROUP, INC.**  
 3105 NORTH RIDGE ROAD  
 ELLICOTT CITY, MARYLAND  
 21043

DES: W.C.W.	
DRN: M.A.D.	
CHK:	
DATE: 8-19-87	BY: NO.
	REVISION
	DATE

**PLAN AND PROFILE OF WATER AND SEWER MAIN**

600' SCALE MAP NO. 42 BLOCK NO.

**COLUMBIA MARKET**  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-1725-D

SCALE AS SHOWN  
 SHEET 1 OF 1

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DATE: 5/6/88

THE RIEMER GROUP, INC.  
 3105 NORTH RIDGE ROAD  
 ELLICOTT CITY, MARYLAND  
 21043

STATE OF MARYLAND  
 DEPARTMENT OF PUBLIC WORKS  
 ARTHUR E. MUEGGE #3767

PLAN AND PROFILE OF WATER AND SEWER MAIN

COLUMBIA MARKET  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-1725-D