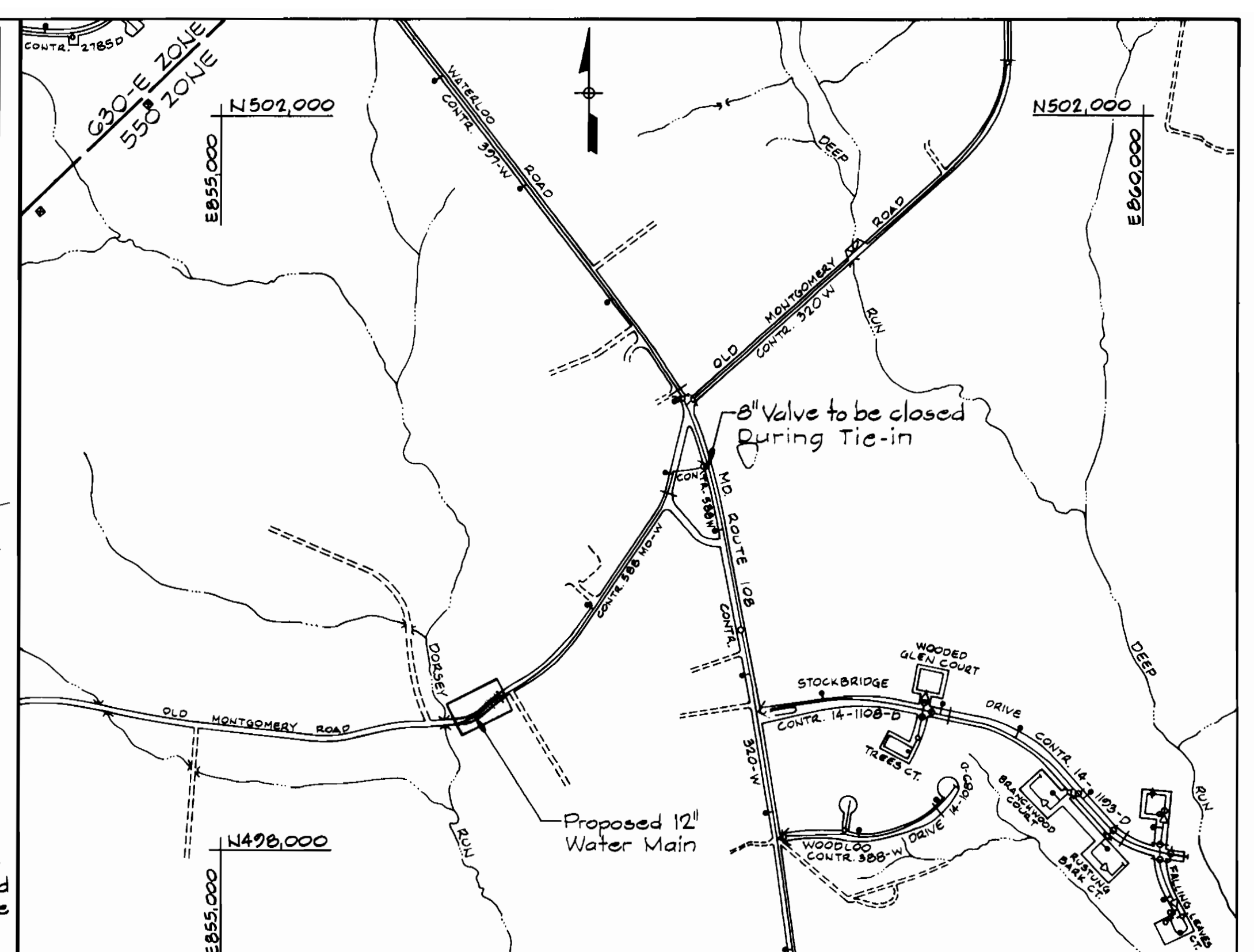


PLAN
Scale: 1" = 50'



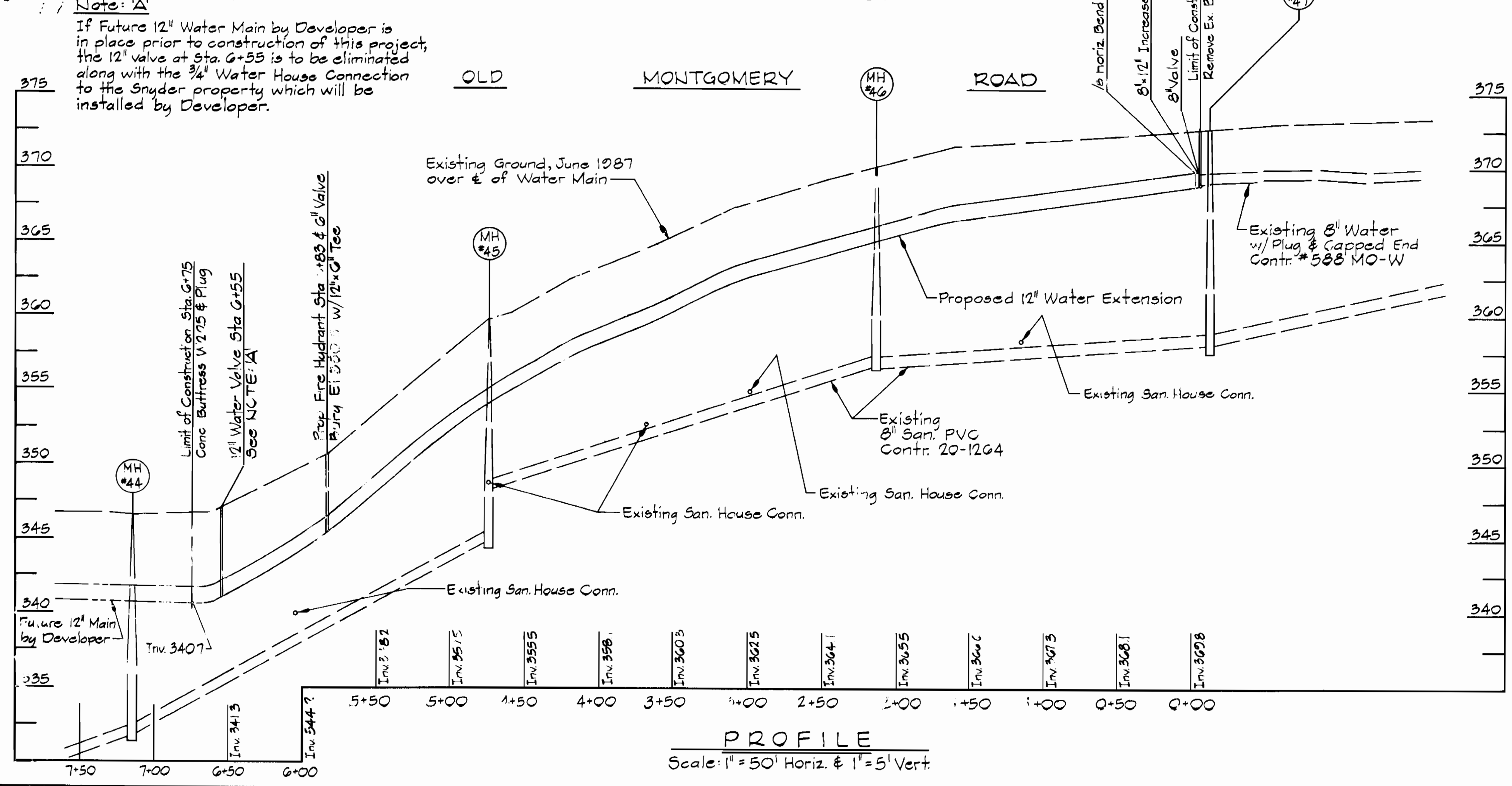
VICINITY MAP
Scale: 1" = 600'

Type of Building: Residential
Number of Parcels: 3
Number of Water House Conn: 3
Drainage Area: Little Patuxent

WATER CODE FOR COUNTY USE ONLY:
WATER NO. F02

GENERAL NOTES:

- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- All horizontal controls based on Maryland State Coordinates.
- All vertical controls based on U.S.G.S. datum.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6'!
- 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. The Contractor shall have a copy of Vol. IV on the job.
- Where test pits are to be made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be verified by the Contractor to his own satisfaction. Any damage to existing facilities due to the Contractor's negligence shall be repaired at the Contractor's expense.
- The Contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:
Baltimore Gas & Electric Co. - Contractor Service 850-4620
Baltimore Gas & Electric Co. - Underground Damage Control 850-9004
Baltimore Gas & Electric Co. - Trouble Shooting 298-9001
Bureau of Utilities, Howard County Dept. of Public Works 992-2366
C & P Telephone Company 1-800-257-7777
Colonial Pipeline Company 795-1390
State Highway Administration 531-5533
Miss Utility 1-550-0100
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the Contractor.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a min. of 3.5' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1003 from the Standard Specifications.
- The Contractor shall not operate any water main valves on the existing water system. Call Howard County Bureau of Utilities at 992-2366. Coordinate the tie-in to the existing 8" water at least five working days prior to scheduling.
- All water house connections shall be for inside meter setting, unless otherwise noted on the plans or in the specifications.



PROFILE
Scale: 1" = 50' Horiz. & 1" = 5' Vert.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works
DATE: 3-28-88
CHIEF, BUREAU OF ENGINEERING

Chief, Bureau of Utilities
DATE: 3/25/88
CHIEF, UTILITY DIVISION

WALLACE, MONTGOMERY & ASSOCIATES
9 W. 29TH STREET
BALTIMORE, MARYLAND 21218
(301)235-7600

DES: J.C.W.
DRN: S.W.S.
CHK: J.C.W.
DATE: NOV. 87

PLAN AND PROFILE OF
WATER MAIN EXTENSION

OLD MONTGOMERY ROAD ROUTINE WATER EXTENSION
CAPITAL PROJECT W-8687
CONTRACT NO. 44-1689
ELECTION DISTRICT NO. 6
HOWARD COUNTY, MARYLAND

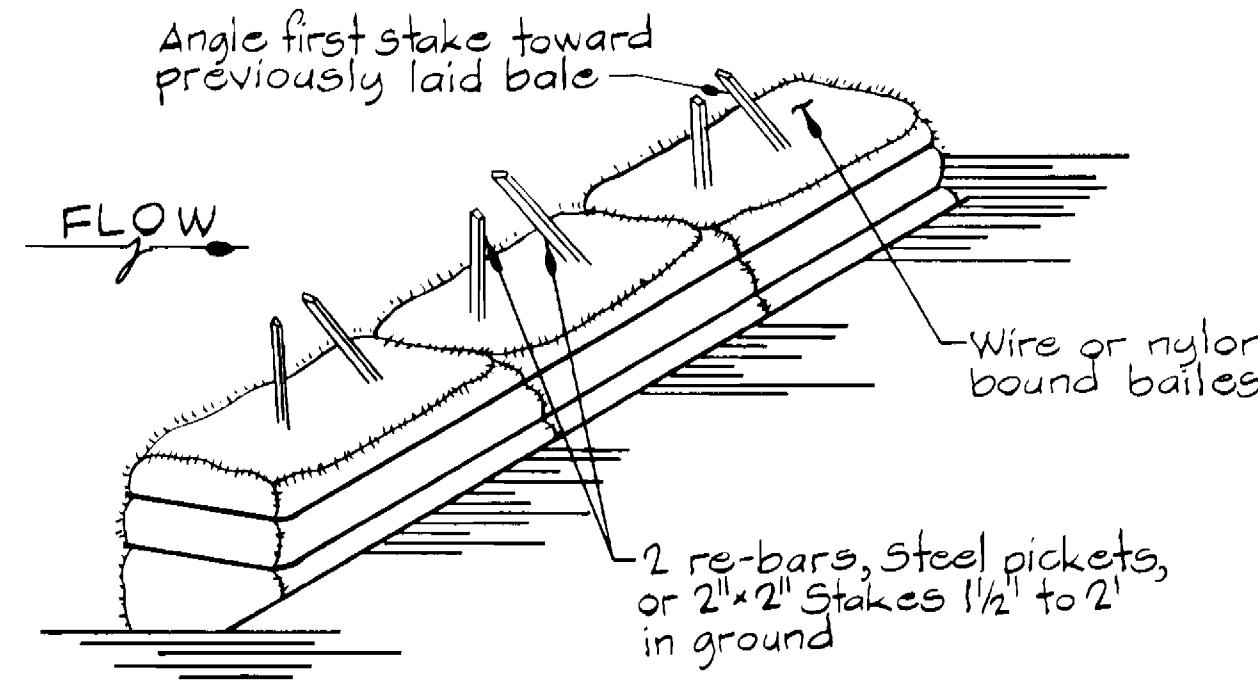
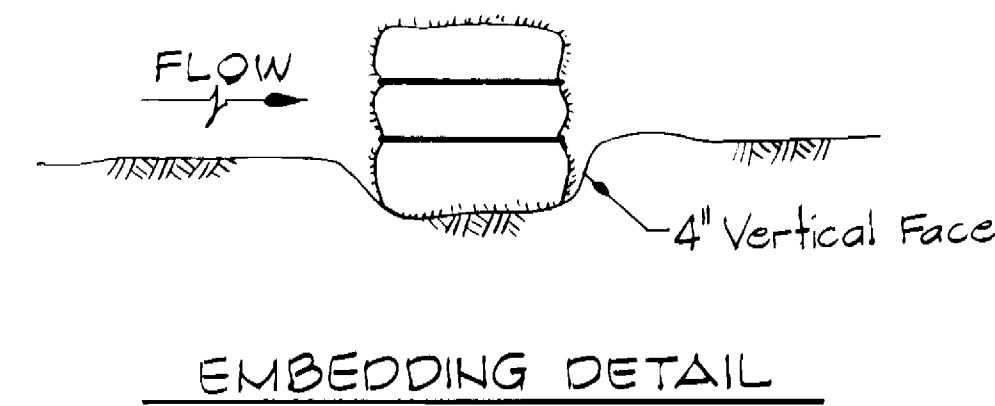
SCALE AS SHOWN
SHEET 1 OF 2

SOIL EROSION AND SEDIMENT CONTROL NOTES

- The Contractor will comply with all requirements of Sediment and Erosion Control set forth in the Contract Drawings, 1983 "Maryland Standards and Specifications for Soil Erosion and Sediment Control", and Volume III - Section 219 of the Howard County Design Manual, Volume III.
- The Contractor shall not pump from excavated areas directly into the Howard County Storm Drainage System or any Natural Water Course. Where ground water is encountered during construction, the Contractor shall provide portable or excavated sediment traps to prevent silted trench water from entering Storm Drainage Systems or natural waterways.
- All excavated material shall be placed on the high side of the trench whenever possible, and confined to an area where it will not obstruct the normal flow or drainage courses.
- All swales shall be equipped with a Sediment Retention device to trap sediment and filter water leaving the Right-of-Way prior to entering any running stream.
- The Contractor shall provide Straw Bale Dikes normal to surface water flow around all vehicle and equipment staging areas as shown in "Detail of a Straw Bale Dike" enclosed in specifications.
- Road side ditches and drainage pipes shall be restored to a condition equal to or better than the original condition following completion of construction.
- The Contractor shall dispose of spoils in accordance with good Soil Conservation practice and in such a manner that none can be carried into any drainage facility or water course. The Contractor shall be responsible for disposing of all spoil or excess excavated material on a site approved by the Soil Conservation District. Documentation of approval and site shall be provided to the Engineer prior to beginning work.
- The Howard County Soil Conservation District must be notified in writing by the Contractor as to where excess material will be disposed project, copies shall be provided to the Engineer.
- Continuous inspection and maintenance of all Sediment and Erosion Control devices will be required.
- The Contractor shall provide additional Soil Erosion and Sediment Control as required by the Sediment Control Inspector, as the work progresses or requires.
- The Contractor shall notify in writing, a Howard County Sediment Control Division representative at least three (3) days prior to starting work. Please contact: Howard County - *992-2436. Copies shall be provided to the Engineer.
- The Contractor shall place a stabilized construction entrance as shown in the Howard County Standard Details, G6.11 where shown on the Plans unless otherwise directed by the Engineer.
- Sediment Removal - all trapped sediment is to be removed and disposed of at the authorized landfills prior to removal of Sediment Control structures.
- Following initial soil disturbance, or redistribution, permanent or temporary stabilization shall be completed within:
 - Seven (7) calendar days for all perimeter Sediment Control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1.
 - Fourteen (14) days as to all other disturbed or graded areas on the project site.

TRAVERSE DESCRIPTION				
Δ POINT	NORTH	EAST	BEARING	DISTANCE
2643002	501372.00	856881.40	S 31°-45'-47"E	1164.46'
2643003	500381.04	857404.37	S 2°-30'-3"W	403.50'
101	499778.87	857475.71	S 35°-17'-18"W	1044.58'
102	499126.23	856872.27	S 46°-47'-5"W	380.34'
103	498865.70	856595.08	N 50°-46'-35"E	393.51'
104	499114.63	856899.03	N 33°-40'-10"E	1038.55'
101	499778.87	857475.74		

ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIM.	AS BUILT		
A-1 8" DIP	5 L.F.			
A-2 12" DIP	670 L.F.			
A-3 Fire Hydrant	1 Each			
8"x12" Increaser	1 Each			
12" Valve	1 Each			
8" Valve	1 Each			
3/4" Water House Conn.	20 L.F.			



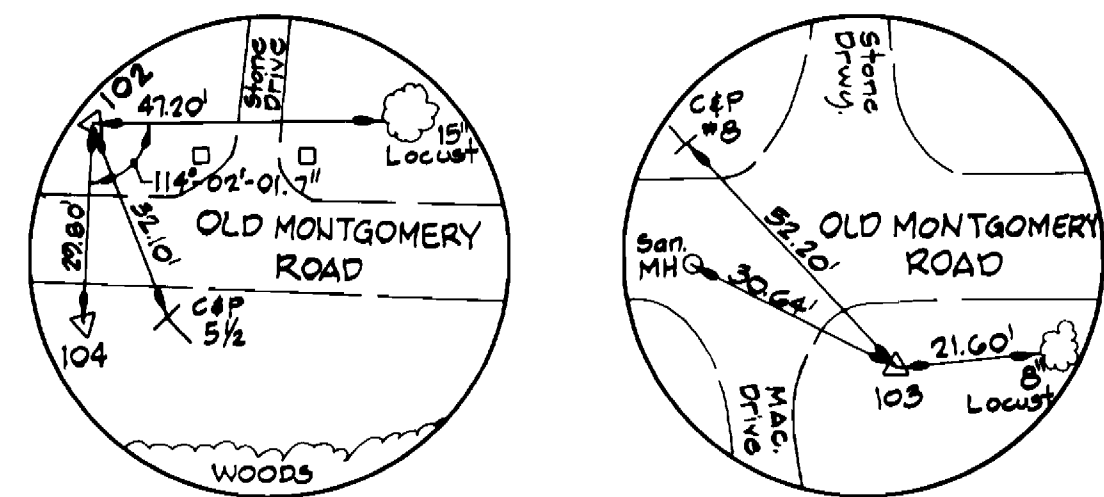
**ANCHORING DETAIL
CONSTRUCTION SPECIFICATIONS**

- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4".
- Bales shall be securely anchored in place by stakes or re-bars driven thru the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
- Inspection shall be frequent and repair or replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

Standard Symbol
S.B.D.

STRAW BALE DIKE DETAIL

Not to Scale



TRAVERSE POINTS 102 & 104

TRAVERSE POINT 103

RESTORATION SCHEDULE		
LOCATION	LENGTH	MATERIAL
Station 0+00 to Station 6+75	675' Left & Right	Pavement

<p>ENGINEER'S CERTIFICATION</p> <p>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 HOWARD COUNTY SOIL CONSERVATION DISTRICT.</p> <p><i>John Wallace</i> 2-15-88 WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093</p>	<p>REVIEWED FOR HOWARD COUNTY S.C.D. MEETS TECHNICAL REQUIREMENTS.</p> <p><i>John Wallace</i> 4-13-88 S.O.S. SOIL CONSERVATION SERVICE DATE</p> <p>THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.</p> <p><i>John Wallace</i> 4/13/88 APPROVED DATE</p> <p>HOWARD COUNTY S.C.D.</p>
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<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Michael A. ...</i> 3-28-88 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>John Wallace</i> 3/25/88 CHIEF, BUREAU OF ENGINEERING DATE</p> <p><i>John Wallace</i> 3/25/88 CHIEF, UTILITY DIVISION DATE</p>	<p>WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093</p>	<p>DES: J.C.W. DRN: S.W.S. CHK: J.C.W. DATE: NOV 87</p>	<p>DETAILS OF WATER EXTENSION</p> <p>600 SCALE MAP NO. _____ BLOCK NO. _____</p>	<p>OLD MONTGOMERY ROAD ROUTINE WATER EXTENSION CAPITAL PROJECT W-8687 CONTRACT NO. 44-1689 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 2 OF 2</p>
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