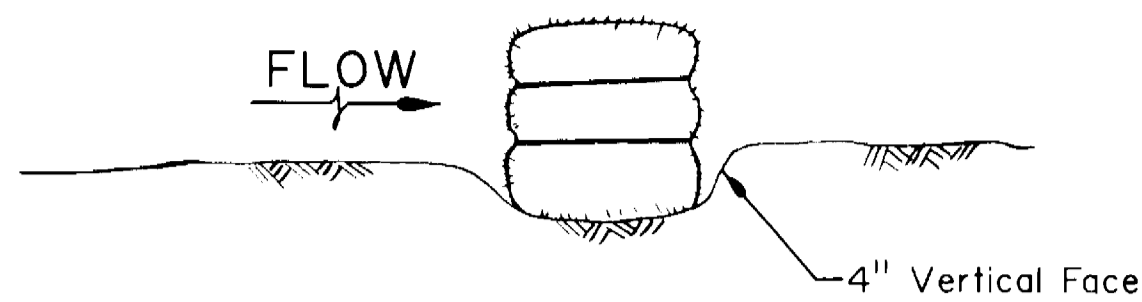
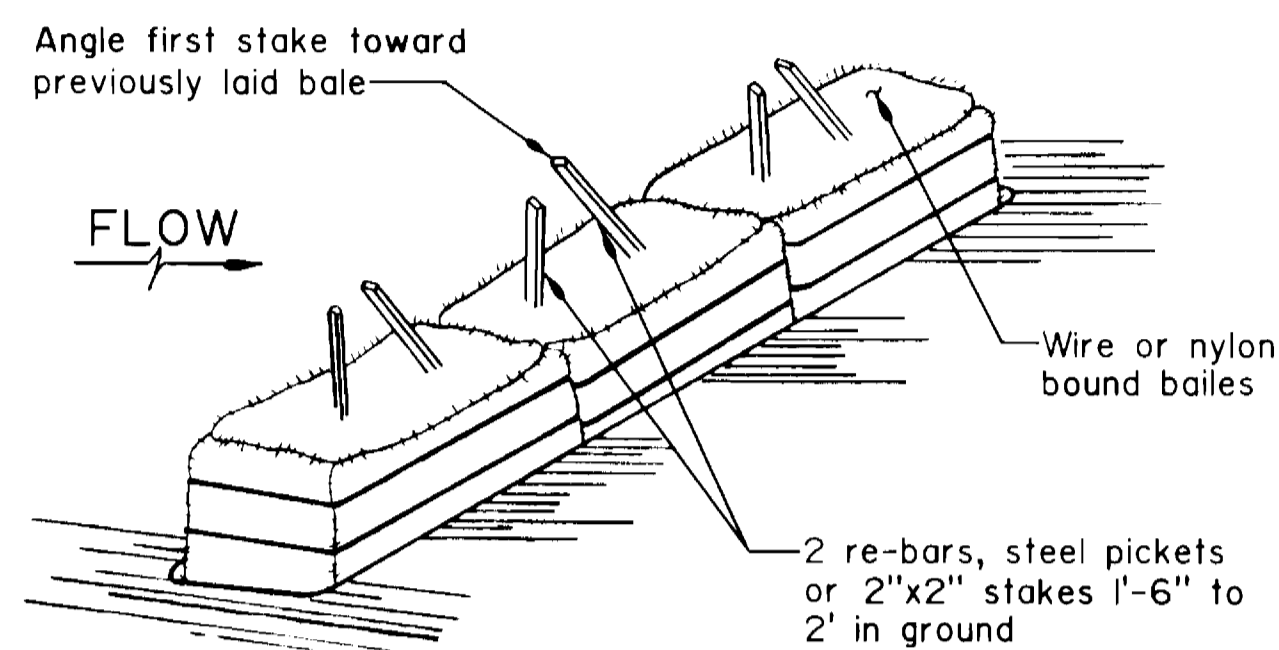


- GENERAL NOTES:**
- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains, services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
 - All horizontal controls based on Maryland and State Coordinates.
 - All vertical controls based on U.S.G.S. data.
 - 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 Volume IV on the job.
 - Where test pits have been made on existing utilities, they are noted by the symbol [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 tests have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
 - The Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans:
Baltimore Gas & Electric Co. - Contractor Service 850-4620
Baltimore Gas & Electric Co. - Underground Damage Control 859-9004
Baltimore Gas & Electric Co. - Trouble Shooting 298-9001
Miss Utility 1-559-0100
Bureau of Utilities, Howard County Department of Public Works 992-2366
 - 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 sewer mains shall be V.C.P.X., A.C.P. class 2400 or P.V.C. unless otherwise noted.
 - The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
 - All manholes shall be 4'-0" inside diameter unless otherwise noted.
 - The Contractor shall implement the erosion and sediment control measures shown on sheet.
 - Inverts of the sewer house connections at the property line are indicated by the symbol: [Symbol]
 - "T.B." denotes test (soil) boring.



EMBEDDING DETAIL



ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. 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.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. 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 DESCRIPTION				
ΔPOINT	NORTH	EAST	BEARING	DISTANCE
10100	523,285.309	857,084.793		
10101	523,122.190	857,320.030	S 55°19'07"E	286.67'
10102	522,855.046	857,093.932	S 40°14'35"W	349.98'
10103	522,745.452	857,167.506	S 33°52'29"E	132.00'
500	522,918.293	857,275.242		

ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIM.	AS BUILT		
A-1 8 Inch Sanitary Sewer	336 L.F.			
A-2 8 Inch Sanitary Sewer D.I.P.	54 L.F.			
A-3 Standard Sewer Manholes	1 EA.			
A-4 Vertical Feet Standard Sanitary Manholes	2 V.F.			
A-5 Shallow Depth Sewer Manholes	2 EA.			
B-1 6 Inch Sanitary Sewer House Connection	20 L.F.			

RESTORATION SCHEDULE		
LOCATION	LENGTH	MATERIAL
Existing MH 4606 to Sta. 0+82	82 Feet	Pavement-6 Inch Thickness
Sta. 0+82 to MH 1	14 Feet	Concrete & Masonry
MH 1 to Sta. 0+47	47 Feet	Sod
Sta. 0+47 to MH 2	7 Feet	Pavement-2 Inch Thickness & Curb
MH 2 to Sta. 1+88	188 Feet	Pavement-2 Inch Thickness
Sta. 1+88 to MH 3	60 Feet	Pavement-6 Inch Thickness & Curb

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. The Contractor will comply with all requirements of Sediment and Erosion Control set forth in the Contract Drawings, 1983 "Maryland Standards Specifications for Soil Erosion and Sediment Control", and Volume IV-Section 219 of the Howard County Design Manual, Volume IV.
2. 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.
3. 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.
4. 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.
5. 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.
6. Road side ditches and drainage pipes shall be restored to a condition following completion of construction.
7. 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.
8. The Howard County Soil Conservation District must be notified in writing by the Contractor as to where excess material will be disposed from the project, copies shall be provided to the Engineer.
9. Continuous inspection and maintenance of all Sediment and Erosion Control Devices will be required.
10. The Contractor shall provide additional Soil Erosion and Sediment Control as required by the Sediment Control Inspector, as the work progresses or requires.
11. 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.
12. 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.
13. Sediment Removal- all trapped sediment is to be removed and disposed of at the authorized landfills prior to removal of Sediment Control Structures.
14. Following initial soil disturbance, or redisturbance, permanent or temporary stabilization shall be completed within:
 - A. Seven (7) calendar days for all perimeter Sediment Control Structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1.
 - B. Fourteen (14) days as to all other disturbed or graded areas on the project site.

<p align="center">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 align="right"><i>John Wallace</i> 4-19-88 WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093</p>	<p align="center">REVIEWED FOR HOWARD COUNTY S.C.D. MEETS TECHNICAL REQUIREMENTS.</p> <p align="right">7/1/88 U.S. SOIL CONSERVATION SERVICE DATE</p> <p>THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.</p> <p align="right"><i>Steve L. ...</i> APPROVED DATE</p> <p align="center">HOWARD COUNTY S.C.D.</p>
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<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Michael A. ...</i> DIRECTOR OF PUBLIC WORKS DATE: 6-30-88</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: 6-29-88</p>	<p>BY: [Signature] NO. 1 REVISION: CHANGED PART OF FROM 1100 TO 1150 PER M. HARTMAN 4-19-88</p>	<p>DETAILS OF SEWER EXTENSION</p> <p>600' SCALE MAP NO. 25 BLOCK NO. _____</p>	<p>COURT HOUSE DRIVE ROUTINE SEWER EXTENSION CAPITAL PROJECT S 6688 CONTRACT NO. 10-1759 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 2 OF 2</p>
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