

TYPE OF BUILDING-RESIDENTIAL NUMBER OF PARCELS-3 SEWER HOUSE CONNECTIONS-3 WATER HOUSE CONNECTIONS-3 DRAINAGE AREA-LITTLE PATUXENT	VICINITY MAP SCALE: 1" = 600'	SEWER AND WATER CODES FOR COUNTY USE ONLY WATER NO. E 03 SEWER NO. S 5582200
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- 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 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 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 CONTRACT TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORK DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
BALTO. GAS & ELECTRIC CO. - CONTRACTOR SERVICE 850-4620
BALTO. GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL 859-9004
BALTO. 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. OR P.V.C. UNLESS OTHERWISE NOTED. ALL WATER MAINS SHALL BE CLASS 52 D.I.P. WITH A MINIMUM COVER OF 3.5' UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR M.H. WALL.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - INVERTS OF THE SEWER HOUSE CONN. AT THE PROPERTY LINE ARE INDICATED BY THE SYMBOL: [Symbol]
 - WATER 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 TIE-IN TO THE EXISTING 8" WATER AT LEAST FIVE WORKING DAYS PRIOR TO SCHEDULING ALL WATER HOUSE CONN. SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
 - THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES ON SHEET 2.

ITEM	QUANTITIES		TYPE	SUPPLIER
	ESTIM.	AS BUILT		
8" Sewer Pipe	492 LF			
Standard Manhole	2			
4" San. House Conn.	30 LF			
8" Water Pipe	360 LF			
Fire Hyd. Conn.	1			
3/4" W.H.C.	80 LF			
8" Water Valve	2			

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Samuel M. ... 9-20-89
Rodney ... 9-21-89

William ... 9-12-89
Don ... 9-12-89

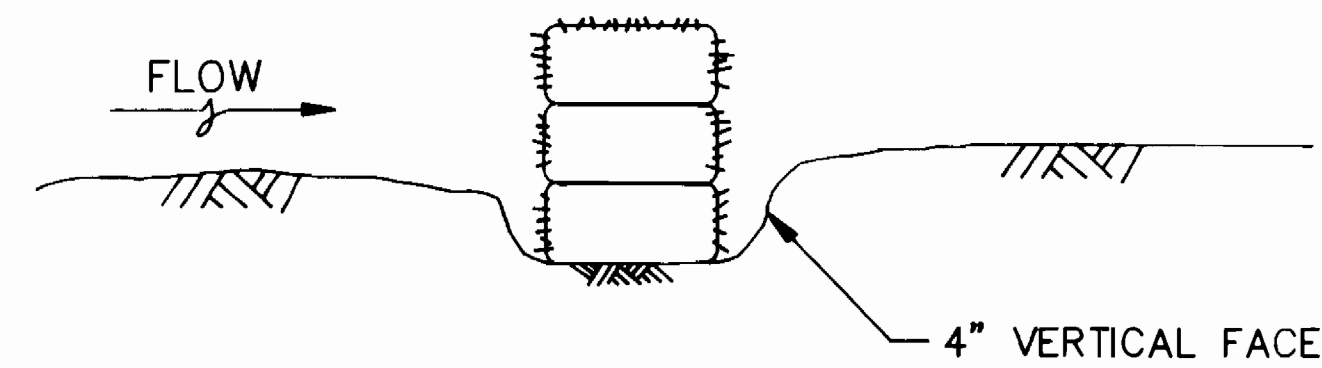
WALLACE, MONTGOMERY & ASSOCIATES
1544 YORK ROAD
LUTHERVILLE, MARYLAND 21093
(301) 494-9093

DATE: 4/28/89

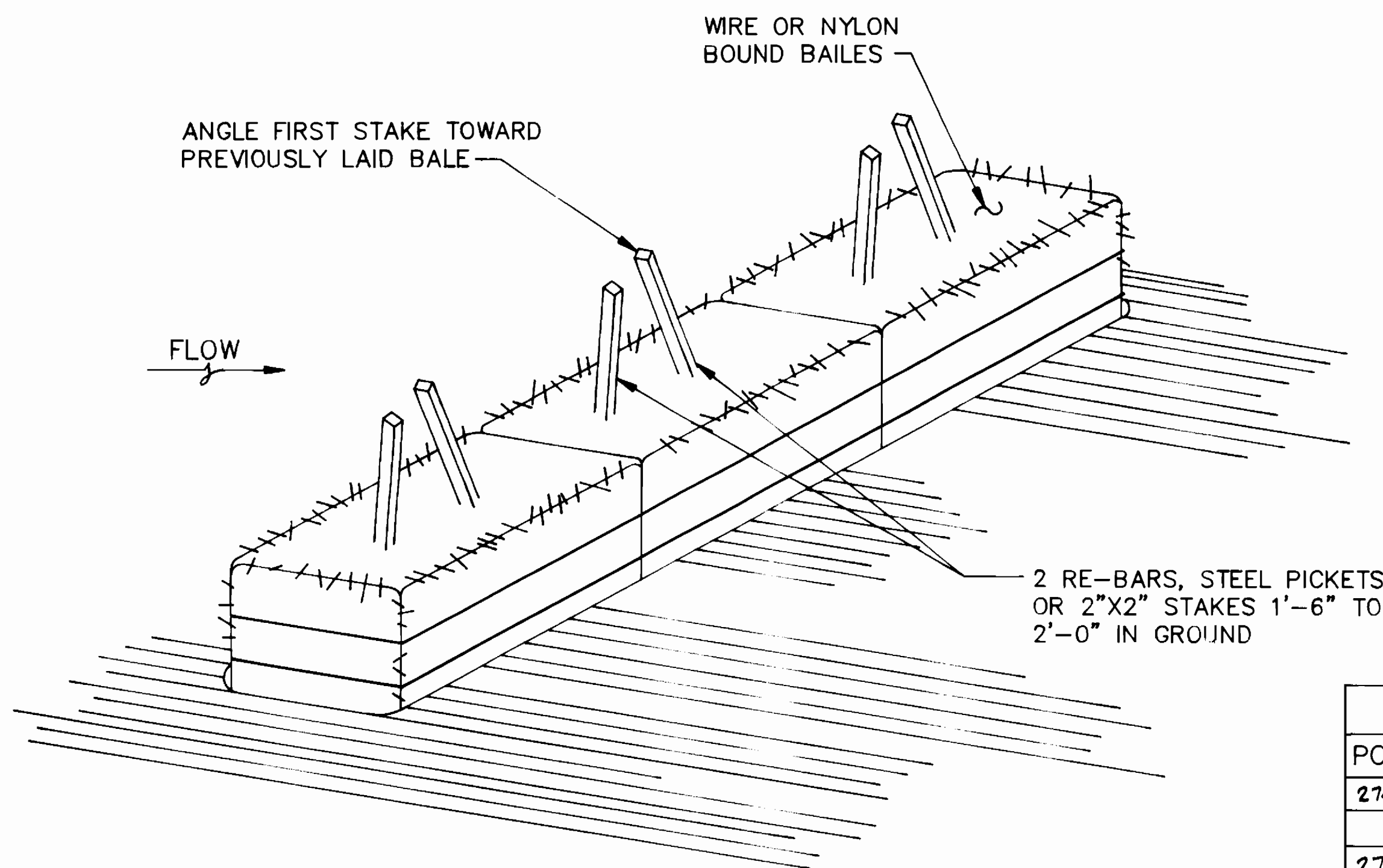
PLAN AND PROFILE OF
WATER AND SEWER EXTENSION

OAKLAND MILLS ROAD WATER AND SEWER EXTENSION
CAPITAL PROJECT S-6689
CONTRACT NO. 24-1920
ELECTION DISTRICT NO. 6
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 2



EMBEDDING DETAIL



ANCHORING DETAIL

WATER MAIN RESTORATION SCHEDULE		
LOCATION	LENGTH	MATERIAL
STA. 0+00 TO STA. 3+55	355'	MACADAM/SHLDR.

SEWER MAIN RESTORATION SCHEDULE		
LOCATION	LENGTH	MATERIAL
EXIST. M.H. #6068 TO STA. 0+55	55'	SOD
STA. 0+55 TO M.H. #1	45'	MACADAM/SHLDR.
M.H. #1 TO M.H. #2	400'	MACADAM/SHLDR.

TRAVERSE DESCRIPTION				
POINT NO.	NORTH	EAST	BEARING	DISTANCE
2741002	507095.1660	843454.7500	S 62° 47' 37" E	1793.10'
2741001	506275.4230	845040.4810	S 24° 30' 02" E	1283.80'
105	505107.1228	845581.2430	S 36° 26' 10" W	807.00'
104	504457.8051	845102.5954	S 43° 03' 43" E	653.78'
103	503980.1447	845548.0800	S 44° 22' 00" E	483.83'
118	503634.2795	845887.3193	S 44° 22' 54" E	293.98'
120	503424.1706	846092.9422	S 44° 23' 23" E	326.41'
117	503190.9154	846321.2804	N 45° 25' 06" W	606.07'
116	503616.3318	845889.6044	S 51° 29' 32" W	356.28'
115	503394.5030	845610.8060	N 44° 50' 03" E	347.47'
114	503640.9104	845855.7903	N 42° 41' 17" W	607.32'
112	504087.3252	845444.0213	N 44° 21' 48" W	503.11'
102	504447.0106	845092.2408	N 35° 30' 28" E	828.26'
101	505120.4074	845574.4821	N 24° 26' 33" W	1268.62'
2741001	506275.4230	845040.4810		

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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND VOLUME IV-SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
- 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 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 FROM THE 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 REDISTURBANCE, 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.

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

<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>DATE: _____</p> <p>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>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>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>James J. ...</i> 9/20/89 DATE DIRECTOR OF PUBLIC WORKS</p> <p><i>Robert ...</i> 9-21-89 DATE CHIEF, BUREAU OF UTILITIES</p>	<p>WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093</p> <p><i>John Wallace</i></p>	<p>DES: J.C.W.</p> <p>DRN: S.W.S.</p> <p>CHK: J.C.W.</p> <p>DATE: 4/28/89</p>	<p>DETAILS OF WATER AND SEWER EXTENSION</p>	<p>OAKLAND MILLS ROAD WATER AND SEWER EXTENSION CAPITAL PROJECT S-6689 CONTRACT NO. 24-1920 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 2 OF 2</p>
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