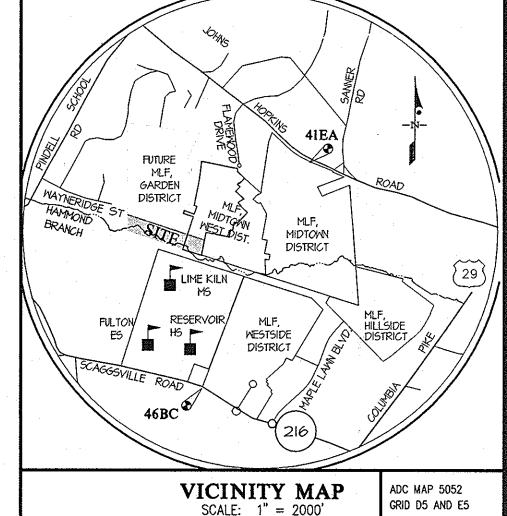


N 545,000 N 545,000 LIMIT OF WORK UNDER THIS CONTRACT (shaded area) MAPLE LAWN FARMS MIDTOWN DISTRICT AREAS 1, 2 \$ 3 SVM PONO PER F-13-00 PROPERTY OF _ PUMP STATION THE BOARD OF EDUCATION 44-4516-D OF HOWRAD COUNTY P/O OPEN L. 3218 F. 618 SPACE LOT 3 (ZONED: MXD-3) OPEN SPACE LOT ! MAPLE LAWN BLVD. (HOMEOWNER'S OWNERS (MINOR ARTERIAL) (100' R/W) ASSOCIATION) N 541,500 N 541,500 G & R MAPLE LAWN (K), LLC OPEN SPACE LOT 2_ L. 4256 F. 250 (COMMERCIAL OWNERS) ASSOCIATION) (cont. 24-4279) (cont. 24-4062-D) PROPERTY OF (cont. 24-4498) LOIS PETERS, LEROY PETERS 4 LAKEISHA PETERS L. 9293 F. 183 -(ZONED: RR-DEO) TEST GRADIENT: 700 (IN 550 PRESSURE ZONE) 780 (IN 630 PRESSURE ZONE) LOCATION MAP SCALE: 1" = 600'

CONTRACT No. 20-4748-D (PHASE 1)

MAPLE LAWN FARMS MIDTOWN WEST DISTRICT SEWER EXTENSION HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING RESIDENTIAL NUMBER OF UNITS NUMBER OF S.H.C.'s NUMBER OF W.H.C.'s _____ AREA OF COMMERCIAL LOT/PARCEL O.O. AC. PUMPING STATION



BENCHMARKS

ELEV. = 472.16 N = 539,925.13 E=1,337,205.77

ELEV. = 407.05 N = 544,825.81 E= 1,339,217.44 STANDARD DISC ON CONCRETE MONUMENT STANDARD DISC ON CONCRETE MONUMENT

GENERAL NOTES

APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MARCH 1997 BY 3DI.

HORIZONTAL AND VERTICAL SURVERY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 46BC AND NO. 4IEA. ALL VERTICAL CONTROLS ARE BASED ON NAVD'88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE STANDARD DISCS ON CONCRETE

ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES, CLEAR ALL POLES BY 5'- O' MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. HE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES

STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). 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 A AT THE LOCATIONS OF THE TEST PITS. 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS

8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

BGE (CONTRACTOR SERVICES) 410-637-8713 BGE (EMERGENCY) 410-685-0123 BUREAU OF UTILITIES 410-313-4900

COLONIAL PIPELINE COMPANY 410-795-1390 1-800-257-177 MISS UTILITY STATE HIGHWAY ADMINISTRATION 410-531-5533

1-800-743-0033/410-224-9210 TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

PART_II_WATER I. ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.

TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED 3. 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS, ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE-

THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. 1AGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.

ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED. FORCE MAINS SHALL BE D.I.P. ONLY.

MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 65.52. WHERE WATERTIGHT FRAMES AND COVERS ARE USED, SET TOP OF FRAME I" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS

HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

THE PURPOSE OF THIS SEWER EXTENSION IS TO PROVIDE SERVICE TO THE FUTURE SECTIONS OF MAPLE LAWN FARMS AND TO THE ADJACENT PROPERTIES TO THE WEST OF THE SITE BOUNDARIES.

PREPARED FOR: MAPLE LAWN FARMS I, LLC SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN

REVIEWED FOR HOWARD SOIL CONSERVATION

CONSERVATION SERVICE

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

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS. LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975 EXP. DATE: MAY 26, 2014

PROFESSIONAL CERTIFICATION

BY NO REVISION

SEWER TITLE SHEET

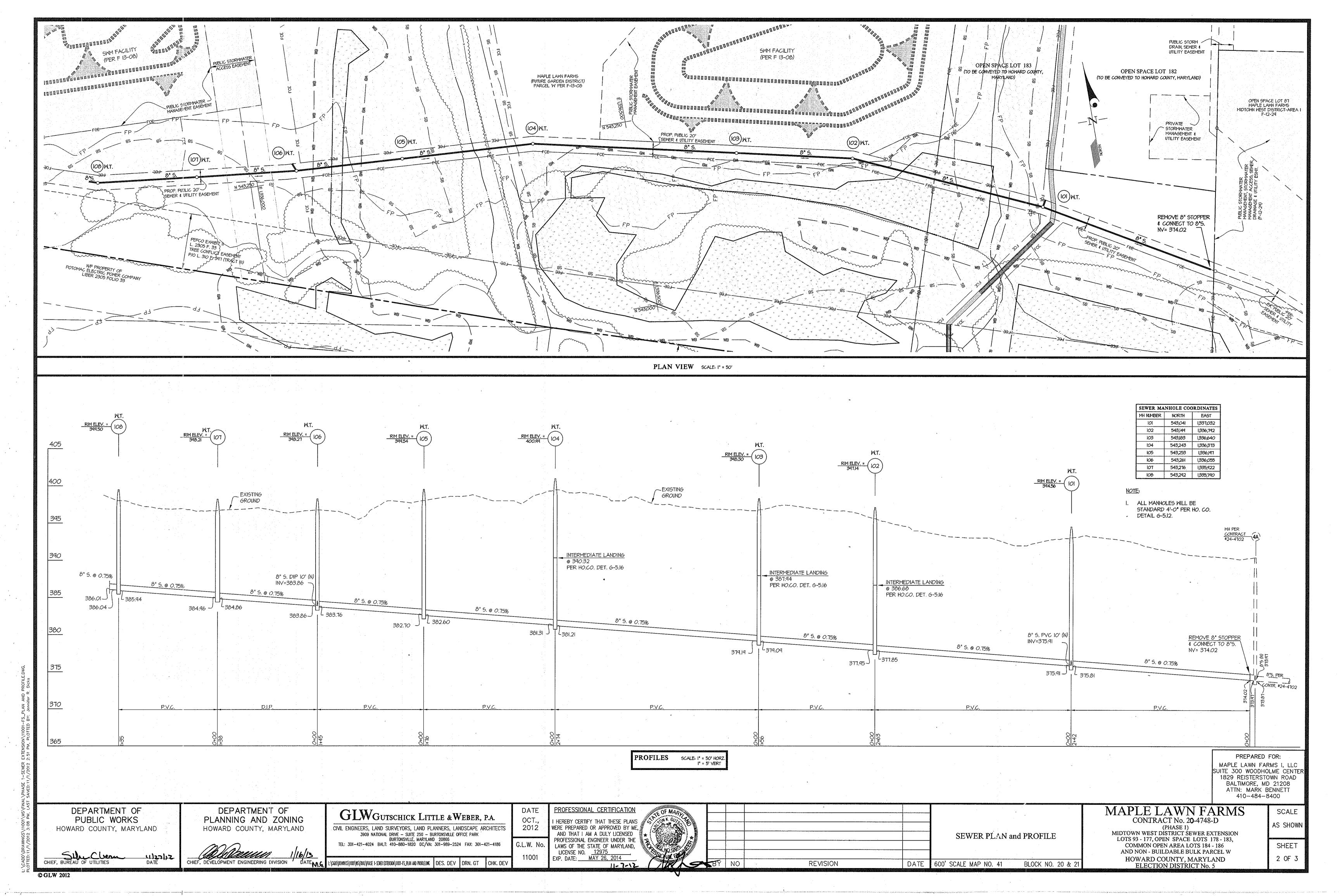
DATE 600' SCALE MAP NO. 41 BLOCK NO. 20 & 21

CONTRACT No. 2**0-4**748-D MIDTOWN WEST DISTRICT SEWER EXTENSION LOTS 93 - 177, OPEN SPACE LOTS 178 - 183, COMMON OPEN AREA LOTS 184 - 186 AND NON - BUILDABLE BULK PARCEL W HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5

MAPLE LAWN FARMS

SCALE AS SHOWN SHEET

1 OF 3



MGWC 1.2: PUMP-AROUND PRACTICE

DESCRIPTION

The work should consist of installing a temporary pump around and supporting measures to divert flow around in-

IMPLEMENTATION SEQUENCE

completed in the following sequence (refer to Detail 1.2):

Construction activities including the installation of erosion and sediment control measures should not begin until all necessary easements and/or right-of-ways have been acquired. All existing utilities should be marked in the field prior to construction. The contractor is responsible for any damage to existing utilities that may result from construction and should repair the damage at his/her own expense to the county's or utility company's satisfaction.

The contractor should notify the Maryland Department of the Environment or WMA sediment control inspector at least 5 days before beginning construction. Additionally, the contractor should inform the local environmental protection and resource management inspection and enforcement division and the provider of local utilities a minimum of 48 hours before starting construction.

The contractor should conduct a pre-construction meeting on site with the WMA sediment control inspector, the county project manager, and the engineer to review limits of disturbance, erosion and sediment control requirements, and the sequence of construction. The contractor should stake out all limits of disturbance prior to the pre-construction meeting so they may be reviewed. The participants will also designate the contractor's staging areas and flag all trees within the limit of disturbance which will be removed for construction access. Frees should not be removed within the limit of disturbance without approval from the WMA or local authority.

6. Construction should not begin until all sediment and erosion control measures have been installed and approved by the engineer and the sediment control inspector. The contractor should stay within the limits of the disturbance as shown on the plans and minimize disturbance within the work area whenever possible

Upon installation of all sediment control measures and approval by the sediment control inspector and the local environmental protection and resource management inspection and enforcement division, the contractor should begin work at the upstream section and proceed downstream beginning with the establishment of stabilized construction entrances. In some cases, work may begin downstream if appropriate. The sequence of construction must be followed unless the contractor gets written approval for deviations from the WMA or local authority. The contractor should only begin work in an area which can be completed by the end of the day including grading adjacent to the channel. At the end of each work day, the work area must be stabilized and the pump around removed from the channel. Work should not be conducted in the channel during rain events

Sandbag dikes should be situated at the upstream and downstream ends of the work area as shown on the plans, and stream flow should be pumped around the work area. The pump should discharge onto a stable velocity dissipater made of riprap or sandbags.

Water from the work area should be pumped to a sediment filtering measure such as a dewatering basin, sediment bag, or other approved source. The measure should be located such that the water drains back into

Traversing a channel reach with equipment within the work area where no work is proposed should be avoided. If equipment has to traverse such a reach for access to another area, then timber mats or similar measures should be used to minimize disturbance to the channel. Temporary stream crossings should be used only when necessary and only where noted on the plans or specified. (See Section 4, Stream Crossings, Maryland Guidelines to

9. All stream restoration measures should be installed as indicated by the plans and all banks graded in accordance with the grading plans and typical cross- sections. All grading must be stabilized at the end of each day with seed and mulch or seed and matting as specified on the plans.

0. After an area is completed and stabilized, the clean water dike should be removed. After the first sediment flush, a new clean water dike should be established upstream from the old sediment dike. Finally, upon establishment of a new sediment dike below the old one, the old sediment dike should be removed.

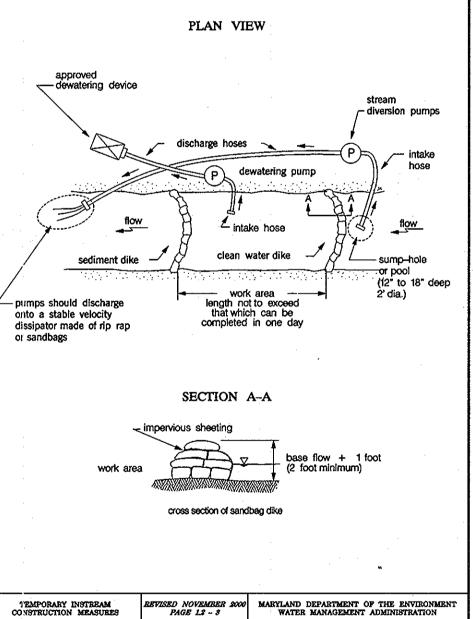
1. A pump around must be installed on any tributary or storm drain outfall which contributes baseflow to the work area. This should be accomplished by locating a sandbag dike at the downstream end of the tributary or storm drain outfall and pumping the stream flow around the work area. This water should discharge onto the same

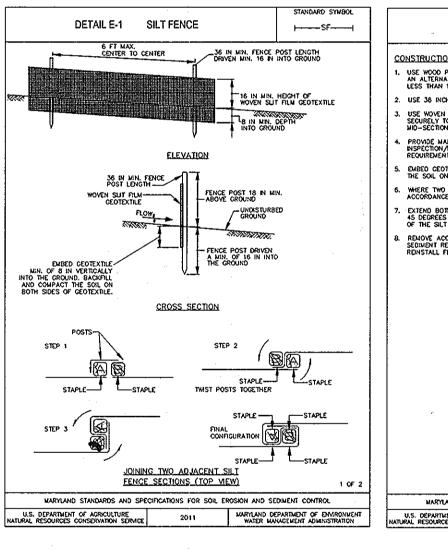
12. If a tributary is to be restored, construction should take place on the tributary before work on the main stem reaches the tributary confluence. Construction in the tributary, including pump around practices, should follow the same sequence as for the main stem of the river or stream. When construction on the tributary is completed, work on the main stem should resume. Water from the tributary should continue to be pumped around the

13. The contractor is responsible for providing access to and maintaining all crosion and sediment control devices

until the sediment control inspector approves their removal. 14. After construction, all disturbed areas should be regraded and revegetated as per the planting plan.

Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE PLAN VIEW





	•	STANDARD SYMBOL						
DETAIL E-1	SILT FENCE	SF						
CONSTRUCTION SPECIFICATIONS								
 USE WOOD POSTS 1½ X 1½ ± ¾ IN AN ALTERNATIVE TO WOODEN POST ULESS THAN 1 POUND PER LINEAR FO 	CH (MINIMUM) SQUARE CO USE STANDARD "T" OR "C OT.	UT OF SOUND QUALITY HARDWOOD, AS U" SECTION, STEEL POSTS WEIGHING NOT						
2. USE 36 INCH MINIMUM POSTS DRIVEN	USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.							
 USE WOVEN SLIT FILM GEOTEXTILE AS SECURELY TO UPSLOPE SIDE OF FENO MID-SECTION. 	USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND							
. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE NISPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.								
5. EMBED CEOTEXTILE A MINIMUM OF 8 THE SOIL ON BOTH SIDES OF FABRIC.	INCHES VERTICALLY INTO	THE CROUND, BACKFILL AND COMPACT						
6. WHERE TWO SECTIONS OF GEOTEXTILE ACCORDANCE WITH THIS DETAIL	E ADJOIN: OVERLAP, TWIS	ST, AND STAPLE TO POST IN						
 EXTEND BOTH ENDS OF THE SLT FER 45 DEGREES TO THE MAIN FENCE ALL OF THE SILT FENCE. 	NCE A MINIMUM OF FIVE IGNMENT TO PREVENT RU	HORIZONTAL FEET UPSLOPE AT NOFF FROM GOING AROUND THE ENDS						
8. REMOVE ACCUMULATED SEDIMENT AN SEDIMENT REACHES 25% OF FENCE H REINSTALL FENCE.	O DEBRIS WHEN BULGES IDIGHT, REPLACE GEOTEXT	DEVELOP IN SILT FENCE OR WHEN IILE IF TORN, IF UNDERMINING OCCURS,						
- 1								
•								
		•						
		•						
		2 0	F 2					
MARYLAND STANDARDS AND SPE	CIFICATIONS FOR SOIL EF	ROSION AND SEDIMENT CONTROL						
U.S. DEPARTMENT OF AGRICULTURE	2011	MARYLAND DEPARTMENT OF ENVIRONMEN	_					
ATURAL RESOURCES CONSERVATION SERVICE	2011	WATER MANAGEMENT ADMINISTRATION						

PREPARED FOR: MAPLE LAWN FARMS I, LLC SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208

ATTN: MARK BENNETT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

velocity dissipater used for the main stem pump around.

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L/CARD/PRANCES/HIROT/NES/PANA/FANES 1-SOMER EXTENSION/HIROS-4S PLAY AND PROFECIAL DES. DEV DR.N. GT CHK. DEV

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE G.L.W. No LAWS OF THE STATE OF MARYLAND, LICENSE NO. <u>12975</u> EXP. DATE: <u>MAY 26, 2014</u> 11001



FOR SEWER	X X X X X X X X X X X X X X X X X X X					SEDIMENT CONTROL PLAN FOR SEWER		
	THE A	NO	<i>i</i> .	PEVISION.	DATE	•	BLOCK NO. 20 & 21	

410-484-8400 MAPLE LAWN FARMS CONTRACT No. 20-4748-D

(PHASE 1) MIDTOWN WEST DISTRICT SEWER EXTENSION LOTS 93 - 177, OPEN SPACE LOTS 178 - 183, COMMON OPEN AREA LOTS 184 - 186 AND NON - BUILDABLE BULK PARCEL W HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5

SHEET 3 OF 3

SCALE

1" = 50'

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