

LEGEND	
,	SEWER HOUSE CONNECTION
<u>8"5.</u>	SEVER LINE (PUBLIC- per seperate contract)
	-SEMER LINE (PUBLIC-per this contract) -PUBLIC SEMER EASEMENT
	PROPOSED STORM DRAIN (per F-PLAN)
<u> </u>	FUTURE WATER MAIN FUTURE SEMER MAIN
CT3	FUTURE STORM DRAIN FUTURE PROPERTY LINE
400	EXISTING CONTOUR ( PER F 12-30)
—— SB ——	STREAM BUFFER
WB	WETLAND BUFFER
	WETLAND AREA
TOE TOE	FOREST CONSERVATION EASEMENT
——FP ——	FLOOD PLAIN LIMITS

I - SEWER TITLE SHEET 2 - SEWER PLAN and PROFILE 3 - SEDIMENT CONTROL PLAN FOR SEWER

N 545,000 N 545,000					
N 545,000 8 9 41EA					
LIMIT OF MORK INDER					
(shaded area)  MAPLE LAWN FARMS					
8'5.					
PEPCO ROW  (Cont. 24 102-D) MORNING  (Cont.					
P. 115 PROPERTY OF 12.53 PUMP STATION 16'S (DID)					
THE BOARD OF ELUCATION   OF HOWRAD COUNTY   L. 3218 F. 618 (ZONED: MXD-3)   EX. 8'S. (Cont. 24-4498)   OPEN SPACE LOT 3   EX. 12"W. (Cont. 24-4238)   EX. 12"W. (Cont. 24-4238)					
ASSOCIATION)  ASSOCIATION  N 541,500  N 541,500					
OPEN SPACE LOT 2 PAR B-16 (COMMERCIAL OWNERS) PAR B-15 (COMMERCIAL OWNERS) PAR B-15 (CONT. 24-4279)  EX. 12*W.  (CONT. 24-4279)  EX. 8'5					
P. 416 PROPERTY OF LOIS PETERS, LEROY PETERS L 19293 F. 183 PAR (cont. 24-4498) PAR (cont. 24-4498) PAR (cont. 24-4498) PAR (cont. 24-4062-D) PAR (cont. 24-4062)					
(ZONED: RR-DEO)  MD ROUS  (MINOR MD ROUS)					
MAPLE LAWN OPEN SPACE LOT 2 PLAT NO. 16082					
MAPLE LAWN PARCEL C-6 PLAT NO. 16514					
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	0
NUMBER OF S.H.C.'s	0
NUMBER OF W.H.C.'s	0
AREA OF COMMERCIAL	LOT/PARCEL <u>0.0 AC.</u>
SEWER SHED	LITTLE PATUXENT
PUMPING STATION	N/A

	PULTON RESERVOIR MLF, MESTSIDE DISTRICT  FULTON RESERVOIR MLF, MESTSIDE DISTRICT  SCAGGS W. MARTHUR MILE DISTRICT  MILE MILE MILE MILE MILE DISTRICT  MILE MILE MILE MILE MILE DISTRICT  MILE MILE MILE MILE MILE MILE MILE DISTRICT  MILE MILE MILE MILE MILE MILE MILE MILE	SOAD 29
,	VICINITY MAP SCALE: 1" = 2000'	ADC MAP 5052 GRID D5 AND E5

ELEV. = 407.05 N = 539,925.13 E=1,337,205.77 N = 544,825.81 E= 1,339,217.44 STANDARD DISC ON CONCRETE MONUMENT STANDARD DISC ON CONCRETE MONUMENT

## GENERAL NOTES

PART I

I. 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. 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MARCH 1997 BY 3DI.

3. 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

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

5. 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 OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.

6. FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB. 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 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:

AT & T 1-800-252-1133 BGE (CONTRACTOR SERVICES) 410-637-8713

BGE (EMERGENCY) 410-685-0123 BUREAU OF UTILITIES 410-313-4900

410-795-1390 COLONIAL PIPELINE COMPANY 1-800-257-7777 MISS UTILITY

STATE HIGHWAY ADMINISTRATION 410-531-5533 1-800-743-0033/410-224-9210 9. 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. II. 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.

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. YALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR

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

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

T. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY

8. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

. 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. MAGNESIUM 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' - O" 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.

6. 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

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

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS.

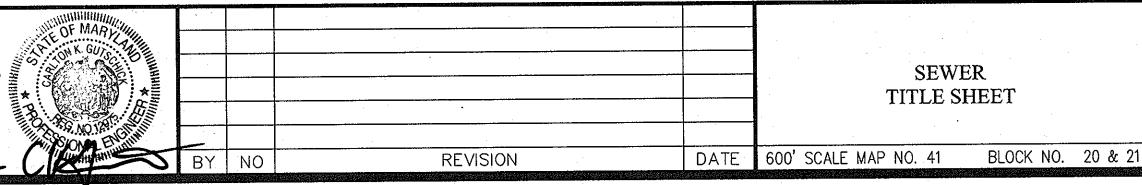
REVIEWED FOR HOWARD SOIL CONSERVATION

DISTRICT AND MEETS TECHNICAL

DEPARTMENT OF PLANNING AND ZONING PUBLIC WORKS HOWARD COUNTY, MARYLAND 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

HEREBY CERTIFY THAT THESE PLANS 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



SEWER TITLE SHEET

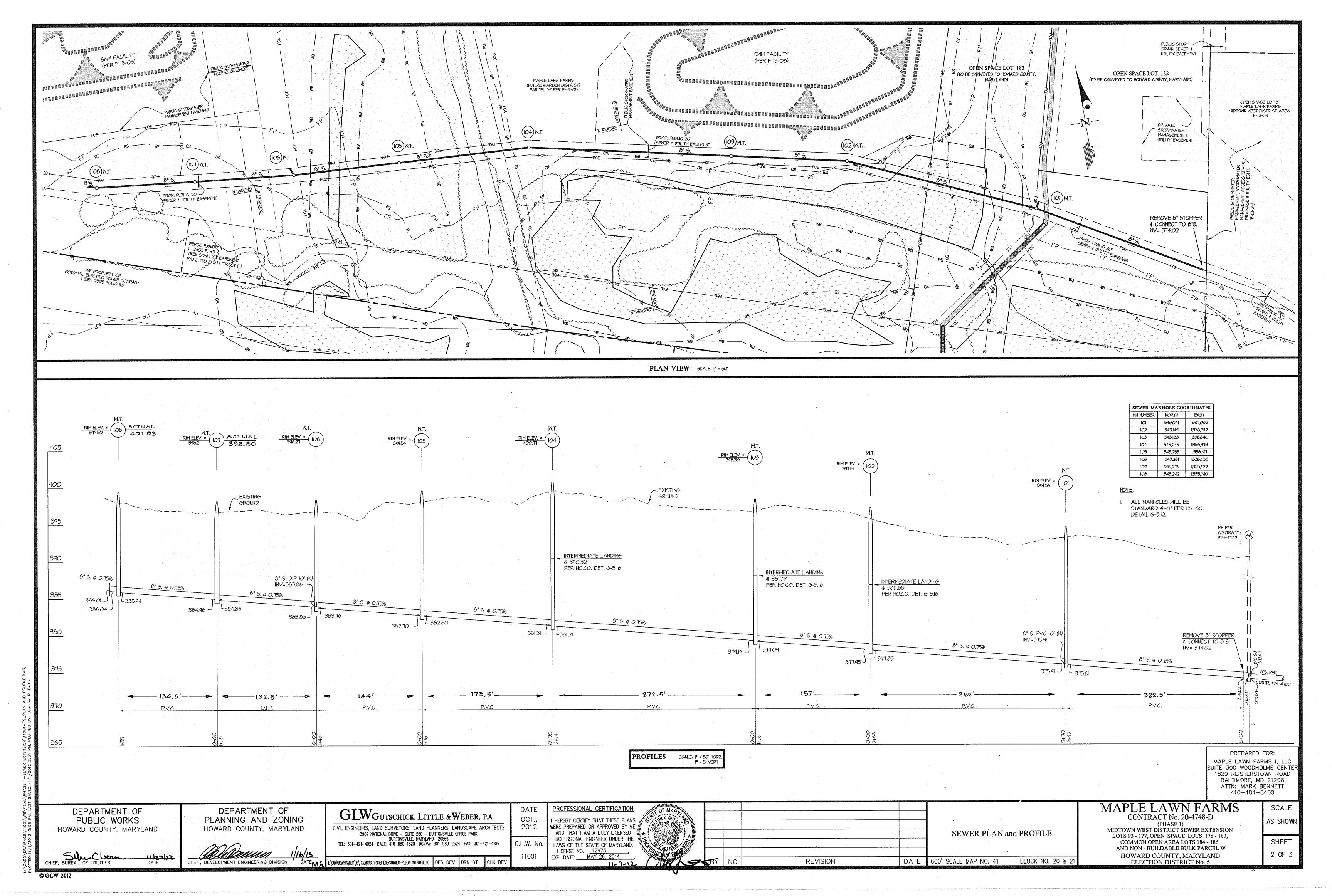
CONTRACT No. 20-4748-D (PHASE 1) MIDTOWN WEST DISTRICT SEWER EXTENSION LOTS 93 - 177, OPEN SPACE LOTS 178 - 183, COMMON OPEN AREA LOTS 184 - 186

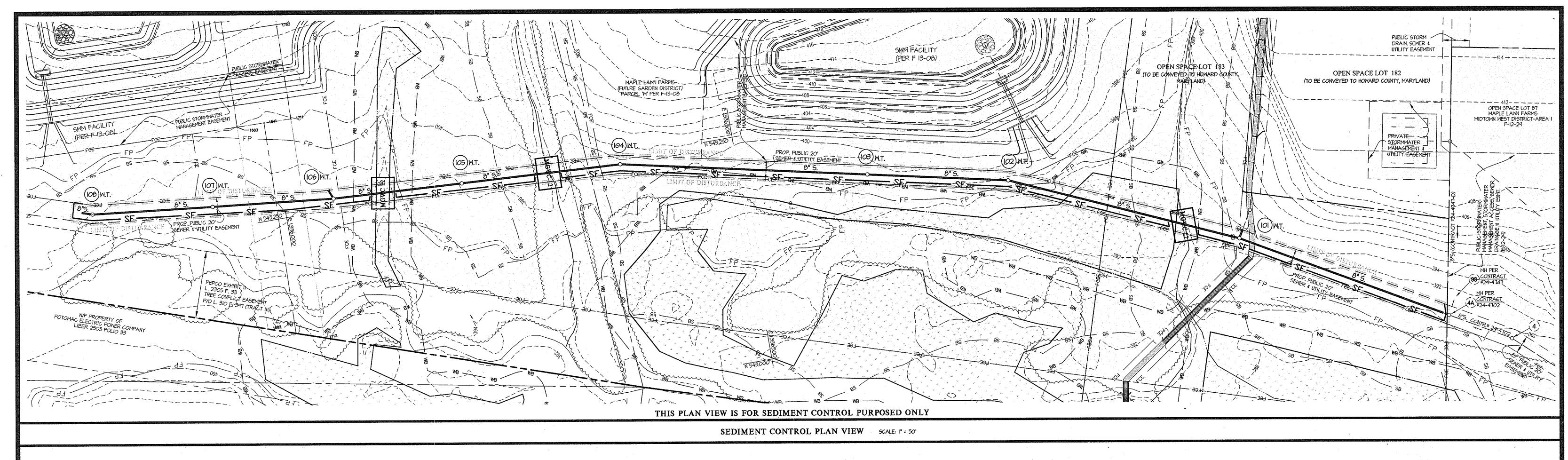
AS SHOWN SHEET 1 OF 3

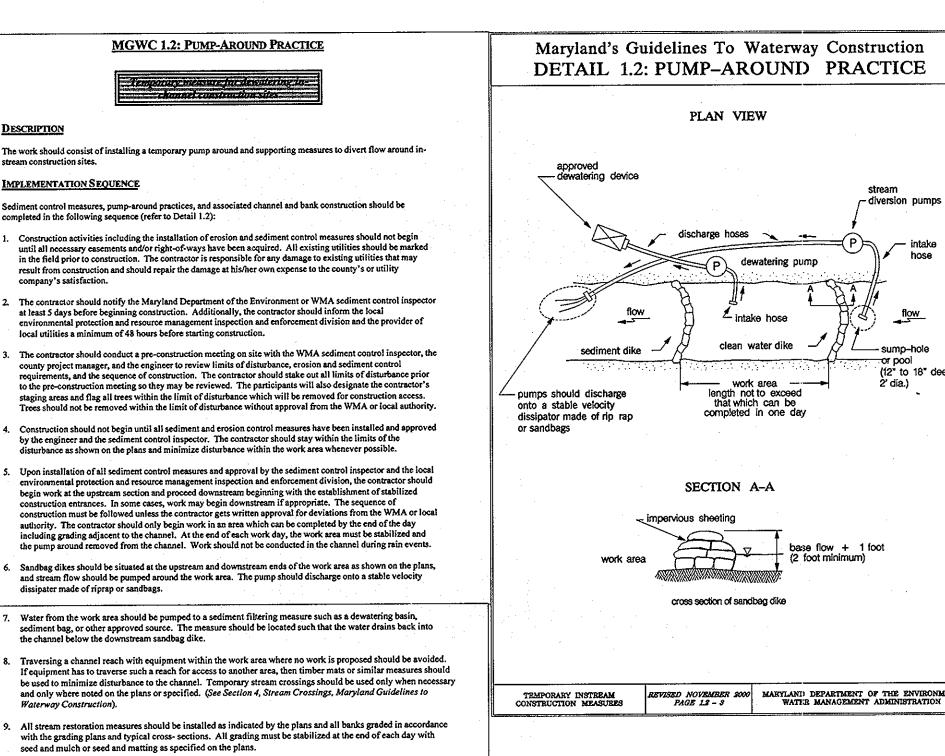
SCALE

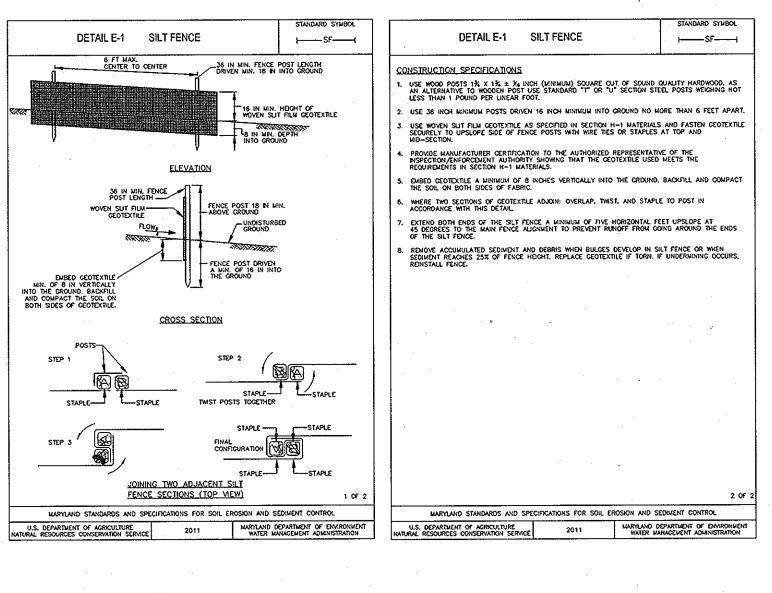
AND NON - BUILDABLE BULK PARCEL W HOWARD COUNTY, MARYLAND **ELECTION DISTRICT No. 5** 

CHIEF, BUREAU OF UTILITIES









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

velocity dissipater used for the main stem pump around.

until the sediment control inspector approves their removal.

work area in the main stem.

10. 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.

11. 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 erosion and sediment control devices

DATE

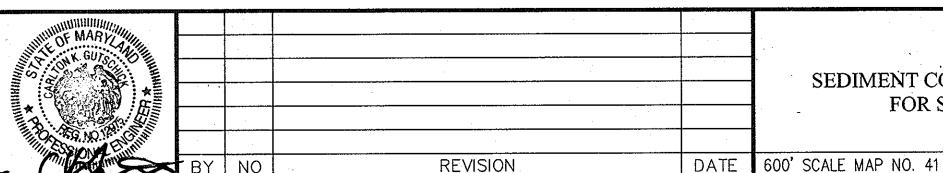
14. After construction, all disturbed areas should be regraded and revegetated as per the planting plan.

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

DATE N.G. L'(CUO)(RAMMS)(11001/NS)(RMA)(PRASE 1-50MR ENTOSON)(11001-FS. PLAN AND PROFILEDING DES. DEV DRN. GT CHK. DEV CHIEF, DEVELOPMENT ENGINEERING DIVISION

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

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS 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. <u>12975</u> EXP. DATE: <u>MAY 26, 2014</u>



SEDIMENT CONTROL PLAN FOR SEWER

BLOCK NO. 20 & 21

MAPLE LAWN FARMS CONTRACT No. 20-4748-D (PHASE 1) MIDTOWN WEST DISTRICT SEWER EXTENSION LOTS 93 - 177, OPEN SPACE LOTS 178 - 183,

1" = 50' COMMON OPEN AREA LOTS 184 - 186 AND NON - BUILDABLE BULK PARCEL W HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5

SHEET 3 OF 3

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CHIEF, BUREAU OF UTILITIES