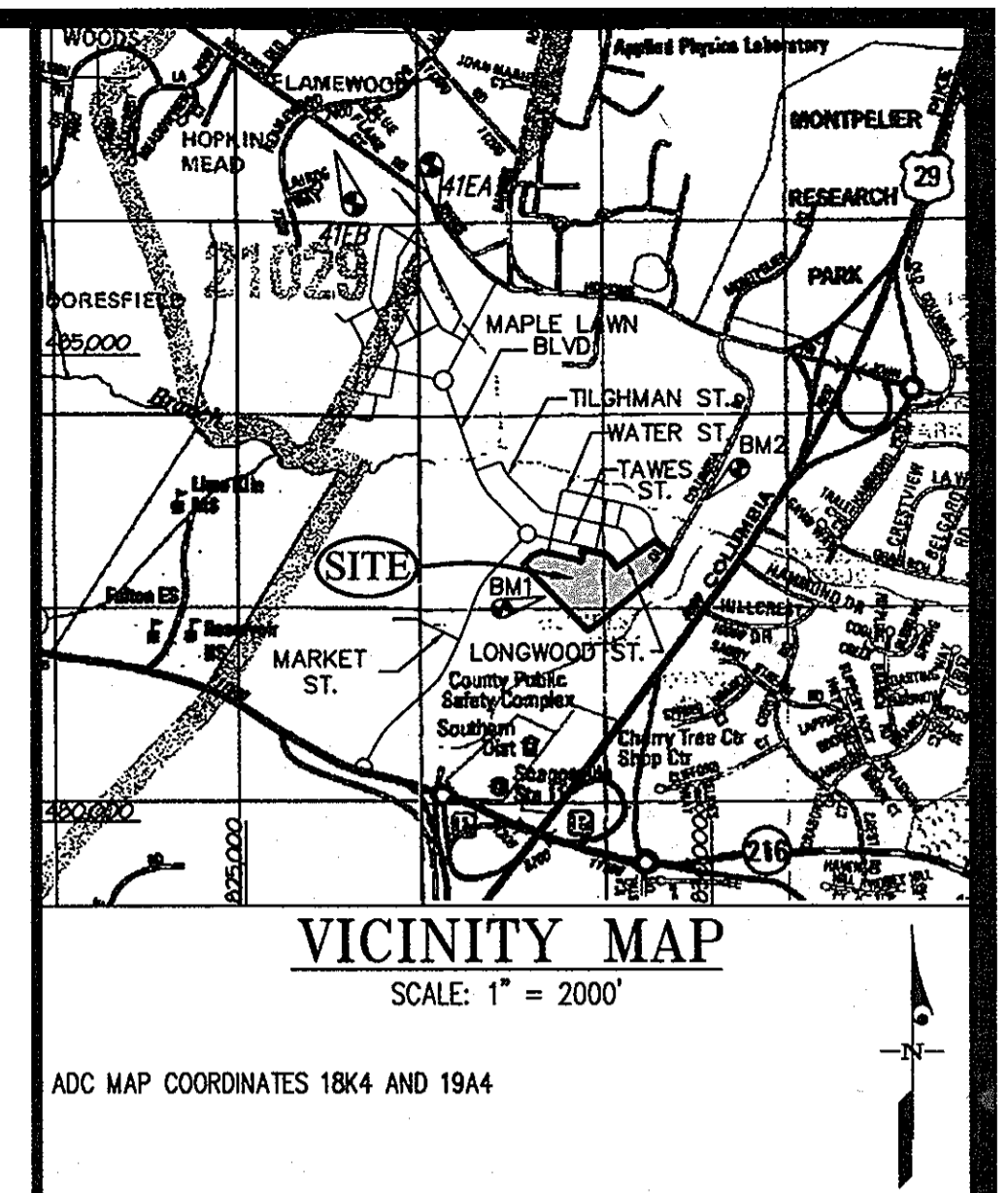
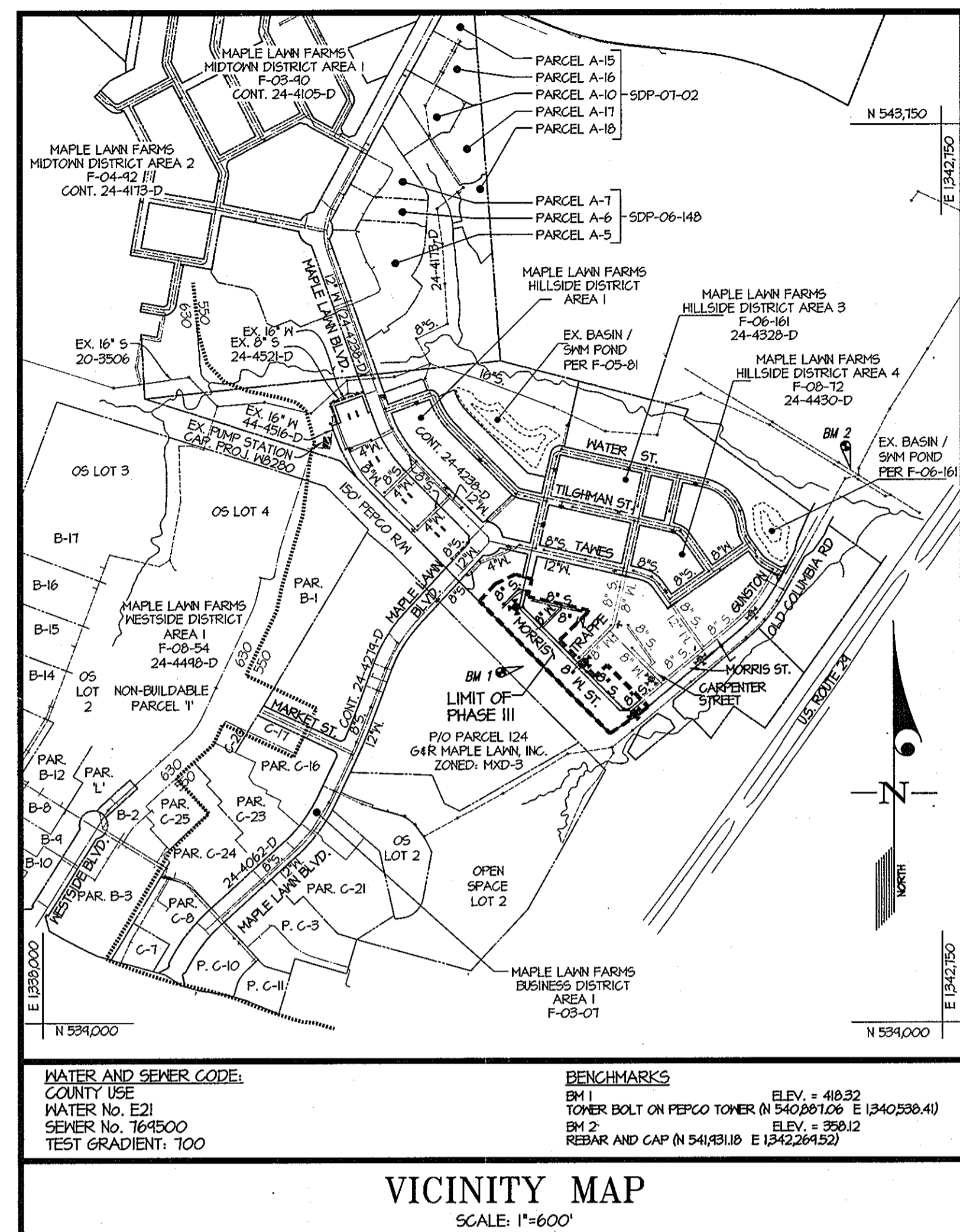


QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
12" WATER MAIN	0 L.F.			
8" WATER MAIN	1197 L.F.	1313 L.F.	CLASS 54	GRIFFIN PIPE
6" WATER MAIN	334 L.F.	321 L.F.	CLASS 54	GRIFFIN PIPE
1-1/2" WATER (NHC)	367 L.F.	416 L.F.	B&B	HOWELL
12" VALVE	0 EA.			
12" VALVE	0 EA.			
12" VALVE	0 EA.			
8" x 6" REDUCER	2 EA.	2 EA.	MJ	SIGMA
8" x 6" TEE	2 EA.	2 EA.	MJ	SIGMA
8" x 6" TEE	3 EA.	2 EA.	MJ	SIGMA
8" VALVE	7 EA.	7 EA.	GATE	KENNEDY VALVE
8" 1/8" HB	1 EA.	2 EA.	MJ	SIGMA
8" 1/8" HB	3 EA.	3 EA.	MJ	SIGMA
8" 1/8" HB	2 EA.	2 EA.	MJ	SIGMA
8" x 6" (FHT)	3 EA.	3 EA.	MJ	SIGMA
FIRE HYDRANT	3 EA.	3 EA.	C 502	KENNEDY VALVE
6" VALVE	2 EA.	5 EA.	GATE	KENNEDY VALVE
4" VALVE	1 EA.			
8" SEWER MAIN (P.V.C.)	580 L.F.	462 L.F.	SDR-35	NORTH AMERICAN
8" SEWER MAIN (D.I.P.)	807 L.F.	968 L.F.	CL 54	GRIFFIN PIPE
4" SEWER (SHC)	1147 L.F.	1085 L.F.	SDR-35	NORTH AMERICAN
4" MANHOLES	12 EA.	12 EA.	PRE CAST	FREDERIC PRECAST
6" 1/8" HB	0 EA.			
6" 1/8" HB	0 EA.			
6" 1/8" HB	0 EA.			
4" 1/8" HB	1 EA.			

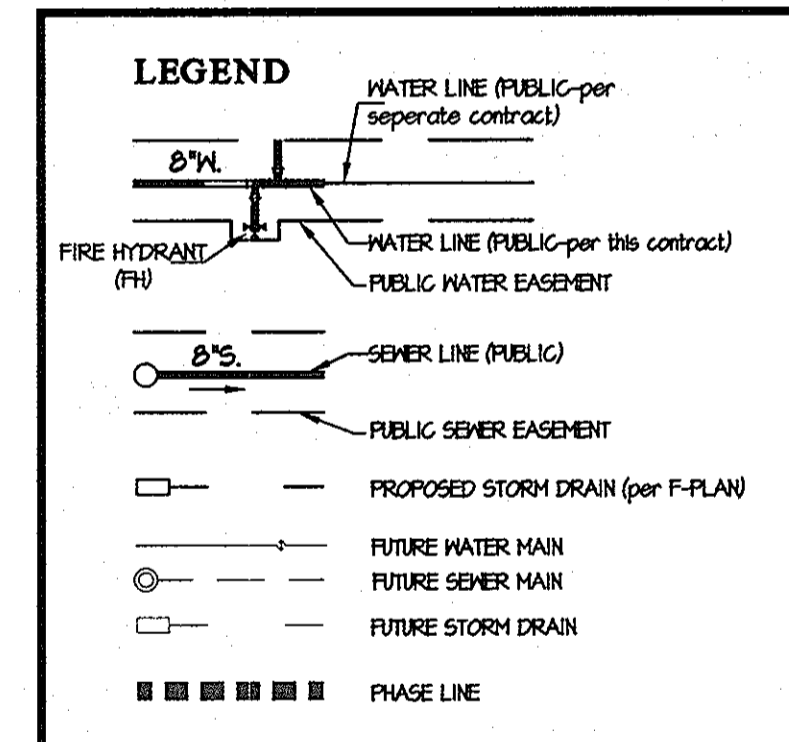
NAME OF UTILITY CONTRACTOR: GRAY & SON

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: 12-7-12



- GENERAL NOTES**
- PART 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.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN MAY 1991 BY SDI.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/11 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 41EA AND NO. 41EB.
  - ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE STANDARD DIPS ON CONCRETE MONUMENTS.
  - 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'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - 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 (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  $\oplus$  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 OWN EXPENSE.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK ON THESE PLANS:
 

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-950-4620
BGE (UNDER GROUND DAMAGE CONTROL)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-715-1340
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-4210
  - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION AREA STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
  - 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)-313-1450 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 DPM REQUIREMENTS PER SECTION 18.14(g) OF THE HOWARD COUNTY CODE.



**SHEET INDEX**

- COVER SHEET
- WATER & SEWER PLAN
- WATER & SEWER PROFILES
- WATER & SEWER DETAILS, MINIMUM CELLAR ELEVATIONS & AS-BUILT INFORMATION

TYPE OF BUILDING	RESIDENTIAL
NUMBER OF UNITS	60
NUMBER OF S.H.C.'s	52
NUMBER OF W.H.C.'s	35
AREA OF COMMERCIAL LOT/PARCEL	16.6231 Ac.
SEWER SHED	LITTLE PATUXENT
PUMPING STATION	LITTLE PATUXENT WRP

THE 20 STACKED TOWNHOUSES (UNITS A1 THRU A10 AND UNITS B1 THRU B10) WILL BE SERVED BY 2'-6" NHC'S.

FUTURE LOTS A THRU L WILL RECEIVE NHC'S & SHC'S UNDER THIS CONTRACT.

CONTRACT No. 24-4686-D  
**MAPLE LAWN FARMS**  
 HILLSIDE DISTRICT - AREA 5 (PHASE 3)  
 LOTS 442 THRU 450 AND 475 THRU 485, OPEN SPACE LOT 487,  
 COMMON OPEN AREAS 492, 511 & P/O 496  
 PARCELS D-3 & D-4, AND NON-BUILDABLE PARCELS 'N' & 'O'  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH F. 10-61 AND SECTION 308 OF THE SPECIFICATIONS AT FINAL ROAD PLAN STAGE.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED: *John K. Robinson* 9/8/10  
 DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Shirley C. Green* 8/23/10  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

*William J. ...* 9/2/10  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**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: 301-988-2524 FAX: 301-421-4186

DATE AUGUST 2010  
 G.L.W. No. 07001

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. 12375  
 EXP. DATE: MAY 26, 2012

*Robert ...*

LEM	BY	NO	REVISION	DATE
1			Added "QUANTITIES"	12-18-12
2			Revised Title to Coordinate w/ Plat. F 11-079	9/19/11

COVER SHEET

600' SCALE MAP NO. 41 BLOCK NO. 22

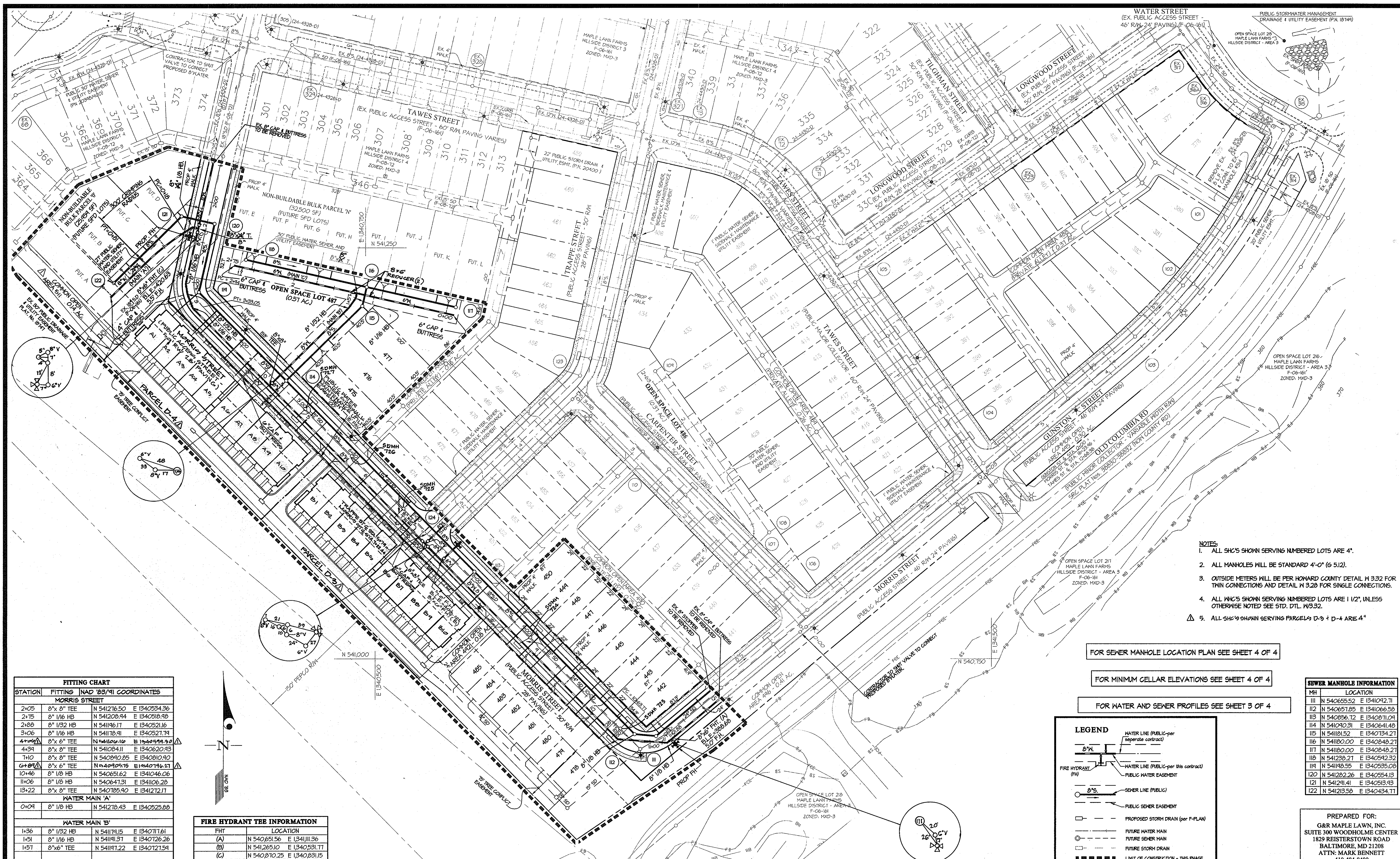
**MAPLE LAWN FARMS**  
 CONTRACT No. 24-4686-D  
 HILLSIDE DISTRICT - AREA 5 (PHASE 3)  
 LOTS 442 THRU 450 AND 475 THRU 485, OPEN SPACE LOT 487,  
 COMMON OPEN AREAS 492, 511 & P/O 496  
 PARCELS D-3 & D-4, AND NON-BUILDABLE PARCELS 'N' & 'O'  
 HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT NO. 5

SCALE AS SHOWN

SHEET 1 OF 4

PREPARED FOR:  
 G&R MAPLE LAWN, INC.  
 SUITE 300 WOODHOLME CENTER  
 1829 REISTERSTOWN ROAD  
 BALTIMORE, MD 21208  
 ATTN: MARK BENNETT  
 410-484-8400

L:\CAD\DRAWINGS\04001\07001\WATER\PHASE 3\07001\DWG-CS-PH3.dwg, PLOTTED: 8/16/2010 9:41 AM, LAST SAVED: 8/16/2010 9:29 AM, PLOTTED BY: Doug Vander Ry



- NOTES:**
1. ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4".
  2. ALL MANHOLES WILL BE STANDARD 4'-0" (6 5/12).
  3. OUTSIDE METERS WILL BE PER HOWARD COUNTY DETAIL M 332 FOR TWIN CONNECTIONS AND DETAIL M 320 FOR SINGLE CONNECTIONS.
  4. ALL W/C'S SHOWN SERVING NUMBERED LOTS ARE 1 1/2", UNLESS OTHERWISE NOTED SEE STD. DTL. W332.
  5. ALL SHC'S SHOWN SERVING PARCELS D-3 & D-4 ARE 4"

FOR SEWER MANHOLE LOCATION PLAN SEE SHEET 4 OF 4

FOR MINIMUM CELLAR ELEVATIONS SEE SHEET 4 OF 4

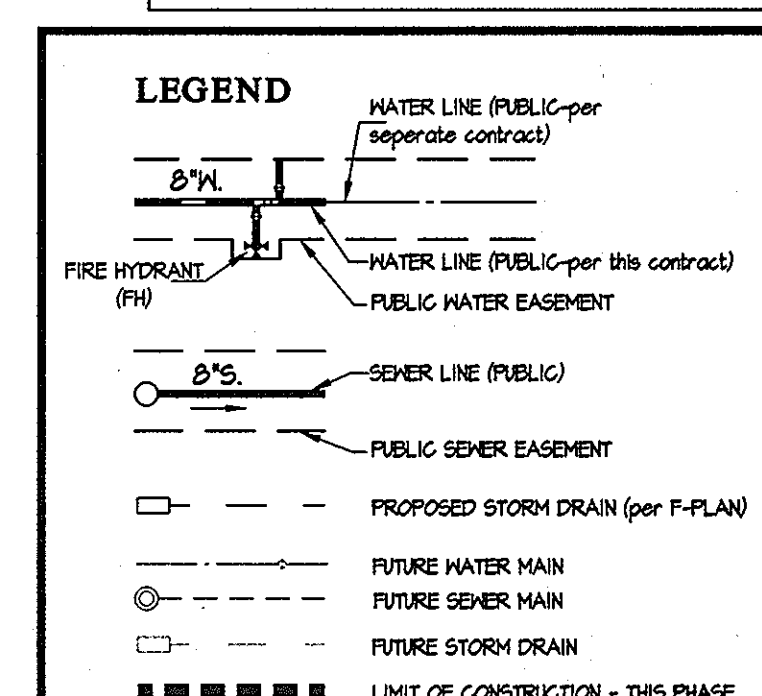
FOR WATER AND SEWER PROFILES SEE SHEET 3 OF 4

**FITTING CHART**

STATION	FITTING	NAD '83/91 COORDINATES
<b>MORRIS STREET</b>		
2+05	8" x 8" TEE	N 541276.50 E 1340534.36
2+15	8" 1/16 HB	N 541208.94 E 1340510.90
2+80	8" 1/32 HB	N 541196.17 E 1340521.16
3+06	8" 1/16 HB	N 541170.91 E 1340527.71
4+00	8" x 6" TEE	N 541106.10 E 1340519.90
4+34	8" x 8" TEE	N 541084.11 E 1340620.93
7+10	8" x 8" TEE	N 540940.85 E 1340810.90
10+16	8" x 8" TEE	N 540909.19 E 13407196.21
11+06	8" 1/8 HB	N 540651.62 E 1341046.06
11+06	8" 1/8 HB	N 540647.31 E 1341106.20
13+22	8" x 8" TEE	N 540785.90 E 1341272.17
<b>WATER MAIN 'A'</b>		
0+04	8" 1/8 HB	N 541278.43 E 1340525.80
<b>WATER MAIN 'B'</b>		
1+36	8" 1/32 HB	N 541174.15 E 1340717.61
1+51	8" 1/16 HB	N 541191.37 E 1340726.26
1+57	8" x 6" TEE	N 541197.22 E 1340727.59

**FIRE HYDRANT TEE INFORMATION**

FHT	LOCATION
(A)	N 540651.56 E 1341111.36
(B)	N 541265.10 E 1340531.77
(C)	N 540810.25 E 1340831.15



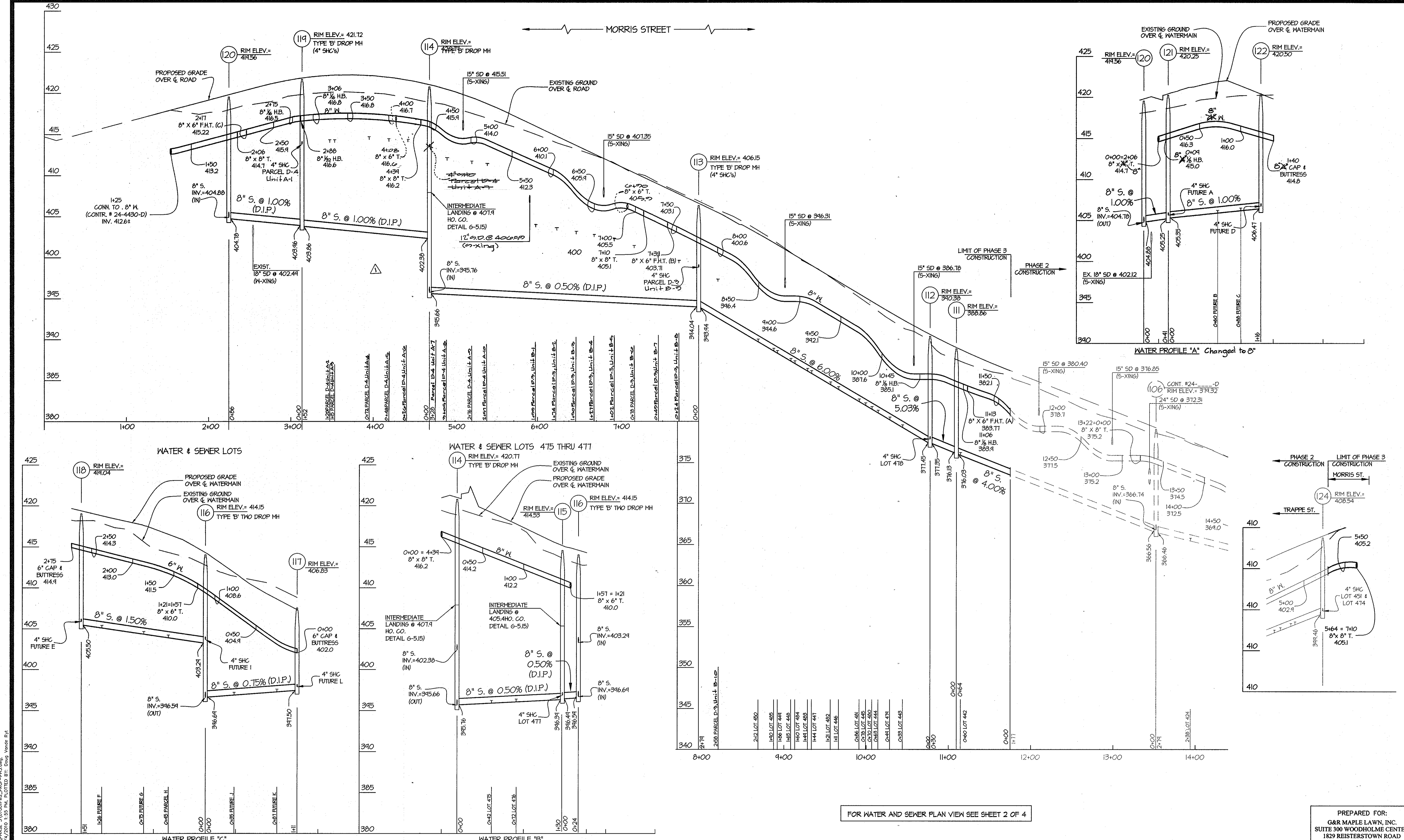
**SEWER MANHOLE INFORMATION**

MH	LOCATION
111	N 540655.52 E 1341042.71
112	N 540651.85 E 1340666.50
113	N 540856.12 E 1340871.04
114	N 541040.31 E 1340641.40
115	N 541101.52 E 1340734.21
116	N 541180.00 E 1340840.27
117	N 541180.00 E 1340840.27
118	N 541238.27 E 1340542.32
119	N 541198.55 E 1340535.08
120	N 541282.26 E 1340554.13
121	N 541214.41 E 1340513.93
122	N 541215.50 E 1340434.77

PREPARED FOR:  
 G&R MAPLE LAWN, INC.  
 SUITE 300 WOODHOLME CENTER  
 1829 REISTERSTOWN ROAD  
 BALTIMORE, MD 21208  
 ATTN: MARK BENNETT  
 410-484-8400

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND S. J. C. Chief, Bureau of Utilities DATE: 9/22/10	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND M. G. Chief, Development Engineering Division DATE: 9/22/10	<b>GLWGUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4624 BALT: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186	DATE: AUGUST 2010 G.L.W. No. 07001	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. 12975 EXP. DATE: MAY 26, 2012		LEM $\Delta$ Added Valve location bubbles 12-18-12	BY NO $\Delta$ Revised SHC's and WHC's for Par. D-3 & D-4 1/19/11	DATE: 12-18-12	DATE: 1/19/11	600' SCALE MAP NO. 41 BLOCK NO. 22	<b>WATER &amp; SEWER PLAN</b>	<b>MAPLE LAWN FARMS</b> CONTRACT No. 24-4686-D HILLSIDE DISTRICT - AREA 5 (PHASE 3) LOTS 442 THRU 450 AND 475 THRU 485, OPEN SPACE LOT 487, COMMON OPEN AREAS 492, 511 & 512 & 513 PARCELS D-3 & D-4, AND NON-BUILDABLE PARCELS 'N', & 'O' HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5	SCALE: 1"=50' SHEET: 2 OF 4
						DES. A.W.L. DRN. A.W.L. CHK. DEV.	REVISION:	DATE:	DATE:	DATE:	DATE:		

L:\CADD\DESIGN\G&R\2010\24-4686-D\24-4686-D-4\24-4686-D-4-10.dwg PLOTTED 8/6/2010 8:55 AM, LAST SAVED 8/6/2010 9:39 AM, PLOTTED BY: Doug Vance, RVT



WATER PROFILE "A" Changed to 8"

FOR WATER AND SEWER PLAN VIEW SEE SHEET 2 OF 4

PREPARED FOR:  
 G&R MAPLE LAWN, INC.  
 SUITE 300 WOODHOLME CENTER  
 1829 REISTERSTOWN ROAD  
 BALTIMORE, MD 21208  
 ATTN: MARK BENNETT  
 410-484-8400

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 PLOTTED 8/26/2010 8:33 AM, LAST SAVED 8/1/2010 1:55 PM, PLOTTED BY: Doug Vander Ryt

DEPARTMENT OF  
 PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Silvia C. Carr*  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF  
 PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

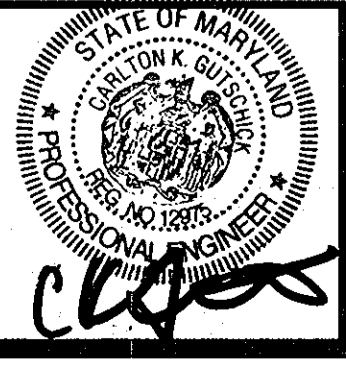
*Mark Bennett*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**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 BAL: 410-880-1820 DC/VA: 301-989-2324 FAX: 301-421-4188

DATE  
 AUGUST  
 2010

G.L.W. No.  
 07001

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. 12975  
 EXP. DATE: MAY 28, 2012



LEM	NO	REVISION	DATE
1	1	Revised pipe information	12-18-12
2	2	Rev. SHC's & WTC's For Parcel D-2 & D-4	9-10-11

WATER & SEWER EXTENSION  
 PROFILE

600' SCALE MAP NO. 41 BLOCK NO. 22

**MAPLE LAWN FARMS**  
 CONTRACT No. 24-4686-D  
 HILLSIDE DISTRICT - AREA 5 (PHASE 3)  
 LOTS 442 THRU 450 AND 475 THRU 485, OPEN SPACE LOT 487,  
 COMMON OPEN AREAS 492, 511 & P/O 400,  
 PARCELS D-2 & D-4 AND NON-BUILDABLE PARCELS 'N', 'O'  
 HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT No. 5

SCALE  
 AS SHOWN

SHEET  
 3 OF 4

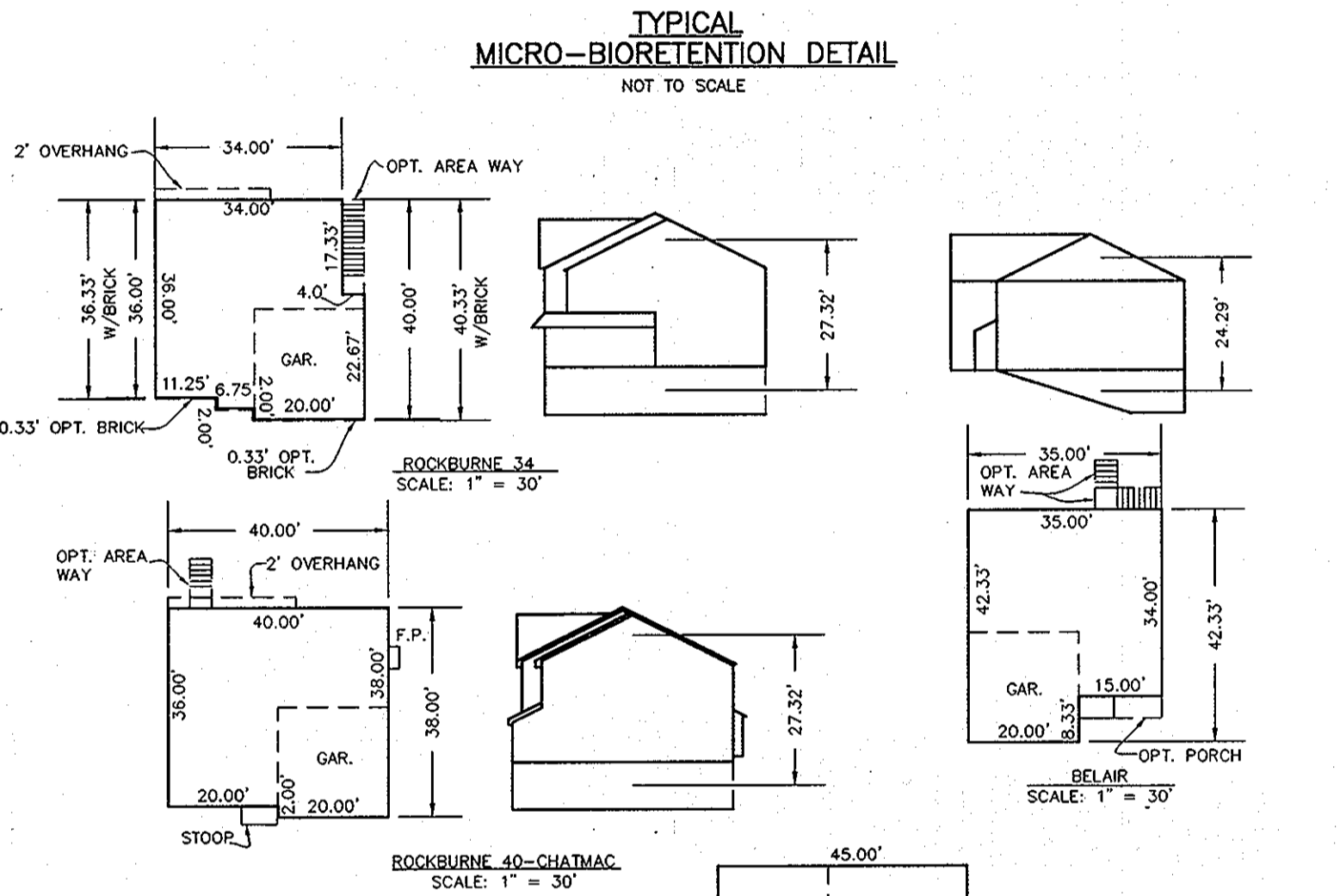
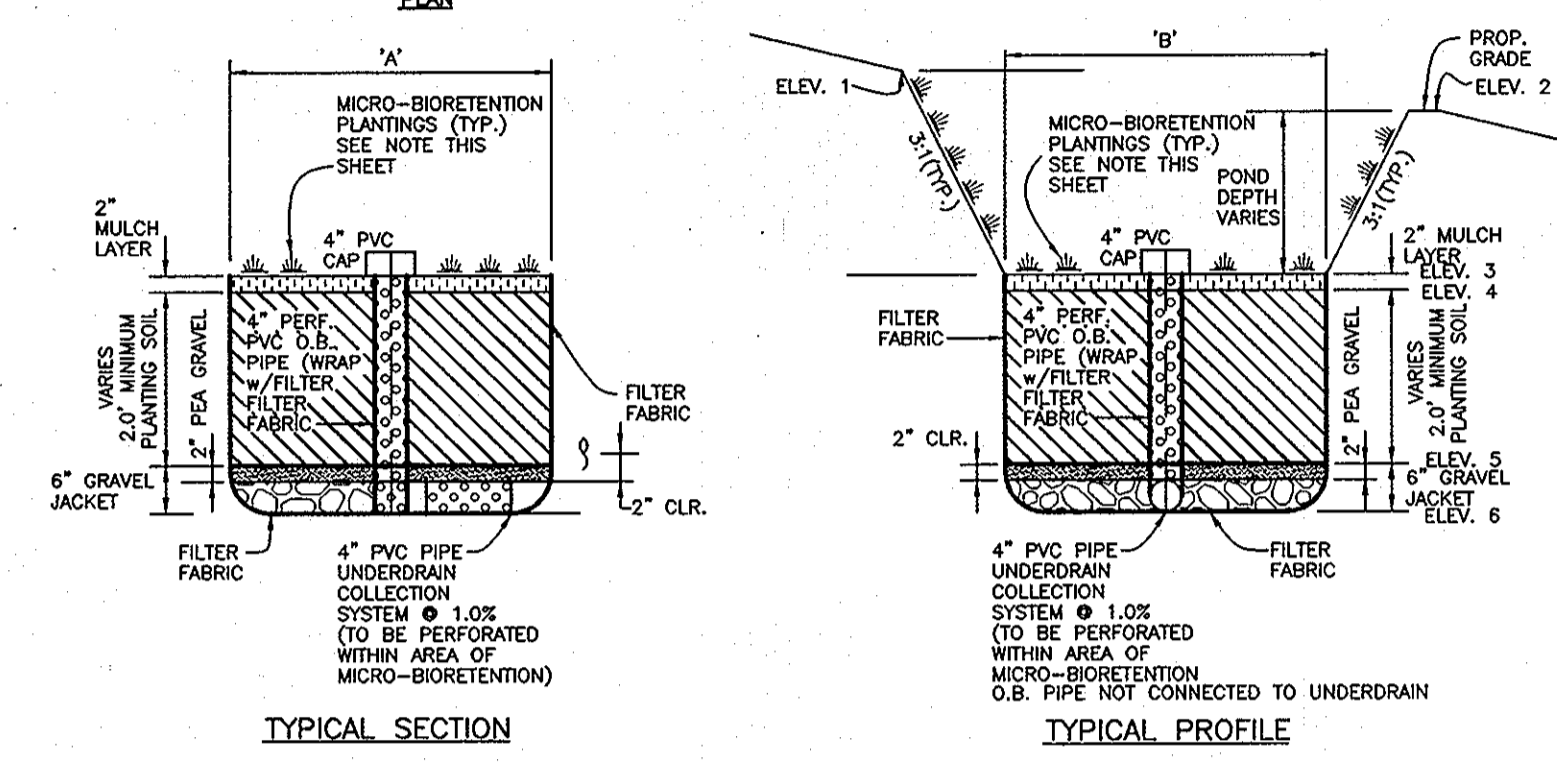


MICRO-BIORETENTION - PLANTING DATA

- 1. PLANTINGS WITHIN THE PONDING AREA OF THE MICRO-BIORETENTION ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE.
2. PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE MICRO-BIORETENTION ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE.
3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE MICRO-BIORETENTION NEAR O.B. PIPE AND UNDERDRAIN.

MICRO-BIORETENTION PLANTING SCHEDULE

Table with 2 columns: Plant name and Quantity. Includes Panicum virgatum, Vernonia noveboracensis, Iris versicolor, Hibiscus moscheutos, Acer rubrum.



HOUSE FOOTPRINTS

SCALE: 1" = 30'

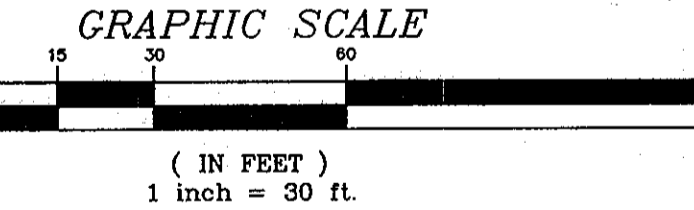
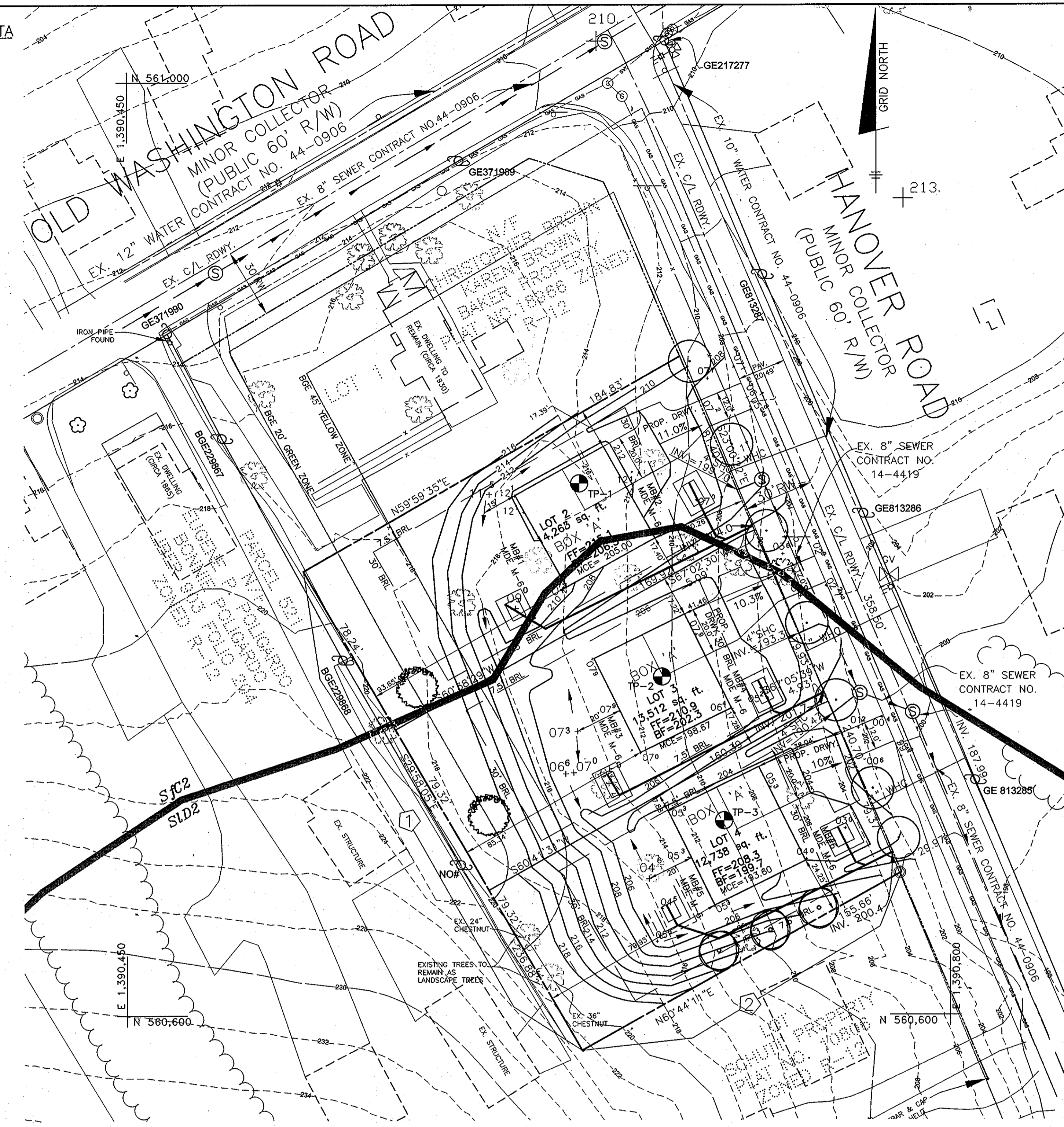
OPERATION AND MAINTENANCE SCHEDULE FOR LANDSCAPE INFILTRATION (M-3) MICRO-BIORETENTION (M-6), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), ENHANCED FILTERS (M-9)

A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT.

SWM DESIGN TABLE with columns for Lot, MB, ELEV., and dimensions.

SHC TABLE with columns for Lot No., Inv. #, Main, Inv. #, R/W, and Mm. Cellar Elev.

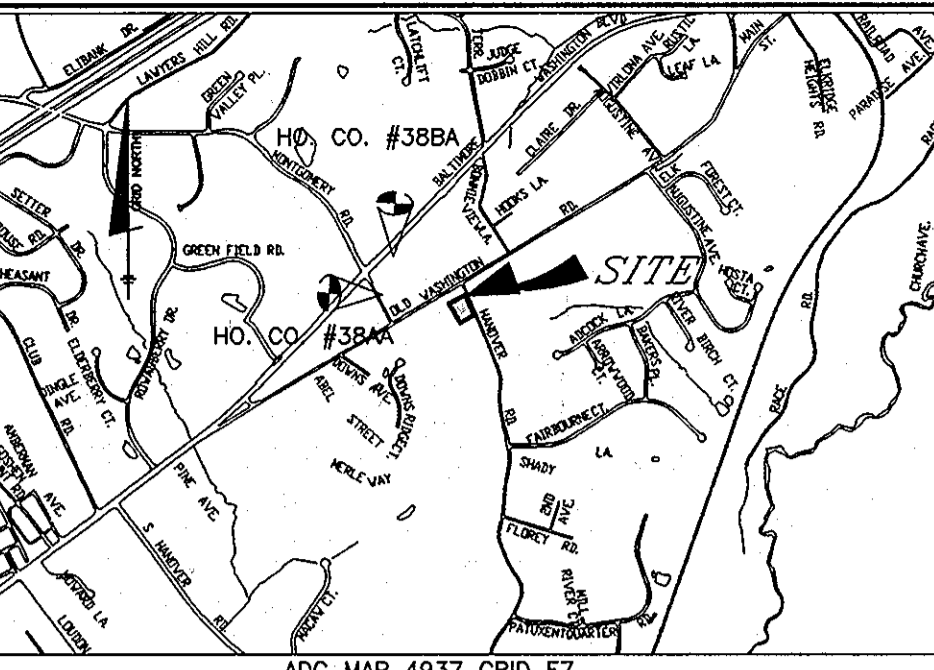
ADDRESS CHART with columns for Lot No. and Address.



LEGEND

- SOILS CLASSIFICATION: Sfc2
SOILS DELINEATION: 216
EXISTING CONTOURS: 216
PROPOSED CONTOURS: 216
TREE PROTECTION FENCE: TF
EXISTING STRUCTURE: [Symbol]
PROPOSED STRUCTURE: [Symbol]

BENCHMARKS: NAD'83 HORIZONTAL. Includes coordinates and elevations for specific benchmarks.



LANDSCAPING NOTES

- 1. PERIMETER LANDSCAPING SHALL BE PROVIDED BY THE PLANTINGS AS SHOWN ON THESE PLANS.
2. TREES MUST BE A MINIMUM OF FOUR (4) FEET FROM THE CURB OR SIDEWALK AND MUST BE A MINIMUM OF THE (5) FEET FROM ANY STORM DRAIN.

SITE ANALYSIS DATA CHART

Table with columns for General Site Data (Present Zoning, DPZ File, etc.) and Area Tabulation (Gross Tract Area, Total Area, etc.).

SCHEDULE A PERIMETER LANDSCAPE EDGE

Table showing credit for existing vegetation, number of plants provided, and requirements for perimeter landscaping.

PERIMETER LANDSCAPE PLANTING LIST

Table with columns for Symbol, Quantity, Name, Remarks, and notes for perimeter planting.

GENERAL NOTES

- 1. EXISTING TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY BENCHMARK ENGINEERING, INC. DATED MARCH, 2005. CONTOUR INTERVAL IS 2 FEET.
2. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL MONUMENTS 38A & 38B, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.

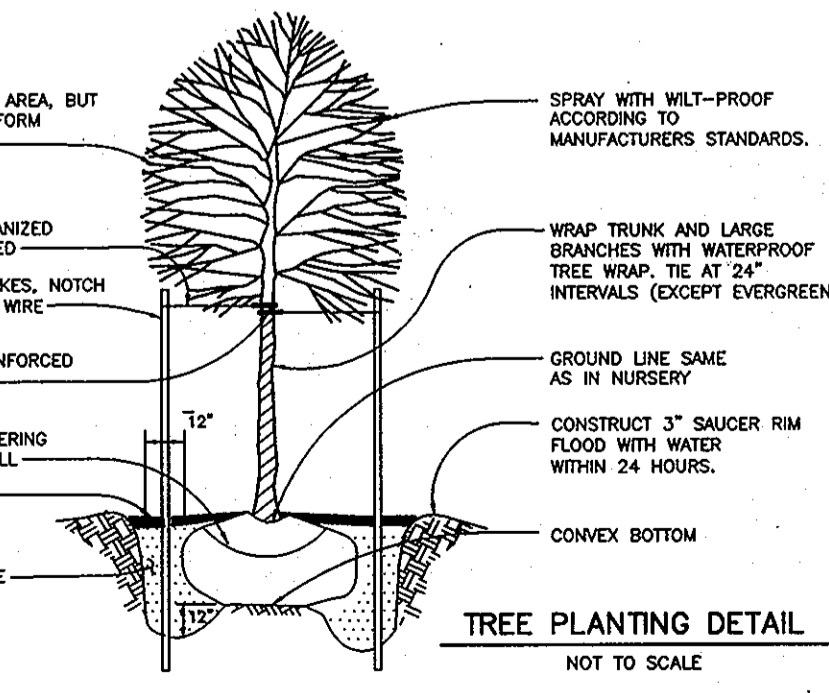
PUBLIC STREET TREE PLANTING LIST table with columns for Symbol, Quantity, Name, Remarks, Notes.

SOILS LEGEND table with columns for Soil Group, Soil Type, and description.

SHEET INDEX table with columns for No., Description, and revision notes.

MATERIALS AND SPECIFICATIONS FOR (M-6) MICRO-BIORETENTION

Table with columns for Material, Specification, Size, and Notes for various components like plantings, mulch, geotextile, and piping.



PERMIT INFORMATION CHART

Table with columns for Subdivision Name, Section/Area, Parcel, and other permit-related information.

BENCHMARK ENGINEERING, INC. logo, contact information (8480 BALTIMORE NATIONAL PIKE), and project information for 'BAKER PROPERTY'.

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION SERVICES AND FINANCE...
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE MOST CURRENT MARSHLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...

Table with 2 columns: Description and Value. Includes rows for Total Area of Site, Area Disturbed, Area to be Reopened or Paved, etc.

5. ADDITIONAL SEDIMENT CONTROL PRACTICES WHICH ARE DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

PERMANENT SEEDBED PREPARATIONS

- 1. PREFERRED - APPLY 2 TONS PER ACRE ISOLANTIC LIMESTONE (92 LB/1000 SQ FT) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LB/1000 SQ FT) BEFORE SEEDING...

SEQUENCE OF CONSTRUCTION

- DAY 1 - 1) OBTAIN GRADING PERMITS.
DAY 2-6 - 2) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SHOP.
DAY 7-10 - 3) EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.

TEMPORARY SEEDBED PREPARATIONS

- 1. SEED FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15. SEED WITH 2-1/2 TONS PER ACRE OF ANNUAL RYE (32 LB/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14...

LEGEND

Legend for symbols and colors: SOILS CLASSIFICATION (SfC2), SOILS DELINEATION (---), EXISTING CONTOURS (210), PROPOSED CONTOURS (216), TREE PROTECTION FENCE (TF), EXISTING STRUCTURE (rectangle), PROPOSED STRUCTURE (rectangle).

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF INSPECTION SERVICES AND FINANCE.

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL NECESSARY PERSONNEL EMPLOYED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PROFESSIONAL INSPECTION BY THE HOWARD COUNTY DEPARTMENT OF INSPECTION SERVICES AND FINANCE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
John K. Robertson 1/3/13

DATE: 12/11/12
DATE: 1/3/13
DATE: 1/15/13
DATE: 1/13/13

TOPSOIL SPECIFICATIONS

- 1. Topsoil salvaged from the existing site may be provided provided that it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS in cooperation with Maryland Agricultural Experiment Station.

Note: Topsoil substitute or amendments, as recommended by a qualified agricultural or soil scientist and approved by the contractor, may be used in lieu of natural topsoil.

SEQUENCE OF CONSTRUCTION

- DAY 1 - 1) OBTAIN GRADING PERMITS.
DAY 2-6 - 2) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SHOP.
DAY 7-10 - 3) EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.

TEMPORARY SEEDBED PREPARATIONS

- 1. SEED FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15. SEED WITH 2-1/2 TONS PER ACRE OF ANNUAL RYE (32 LB/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14...

LEGEND

Legend for symbols and colors: SUPER SILT FENCE (SSF), SEDIMENT CONTROL MATTING (rectangle), LIMIT OF DISTURBANCE (dashed line), STABILIZED CONSTRUCTION ENTRANCE (rectangle).

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CONSTRUCTION SPECIFICATIONS

- 1. All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be reamed to an adequate number of corrugations to accommodate the gasket.

Note: Topsoil substitute or amendments, as recommended by a qualified agricultural or soil scientist and approved by the contractor, may be used in lieu of natural topsoil.

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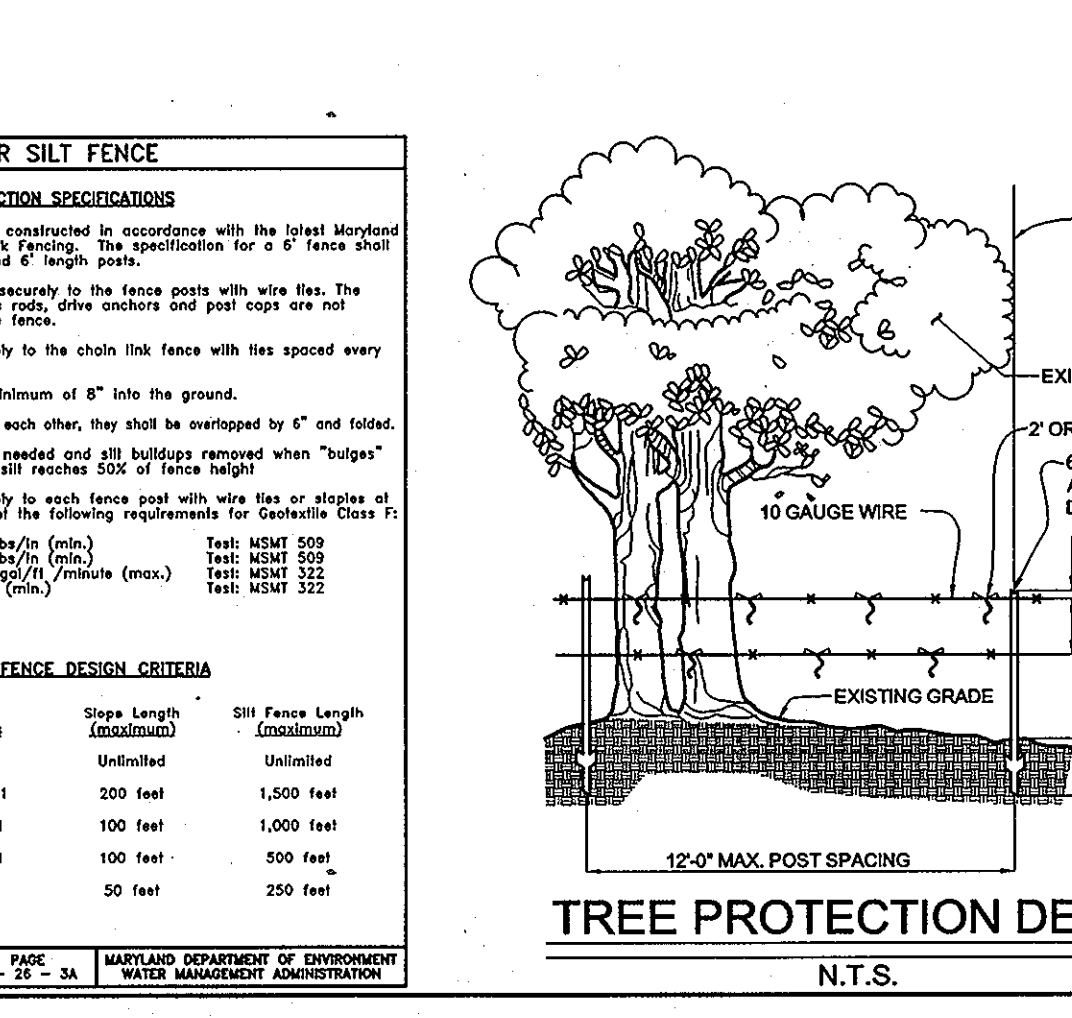
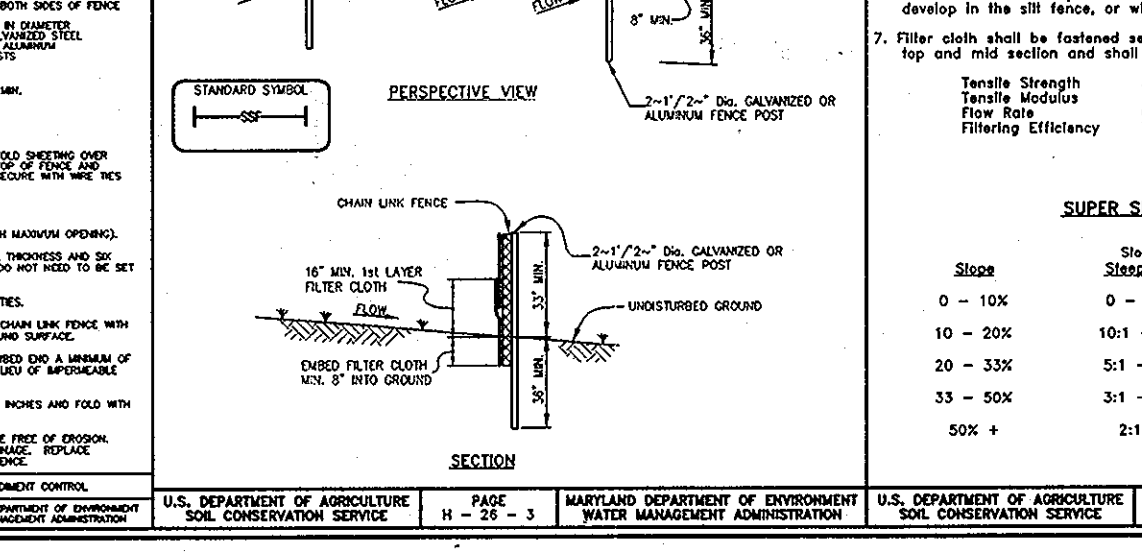
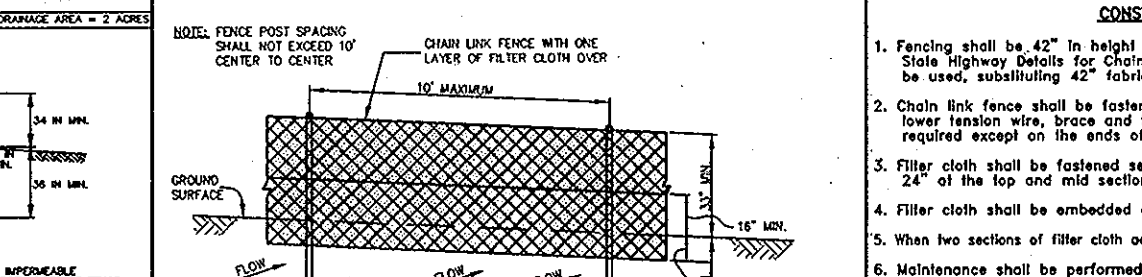
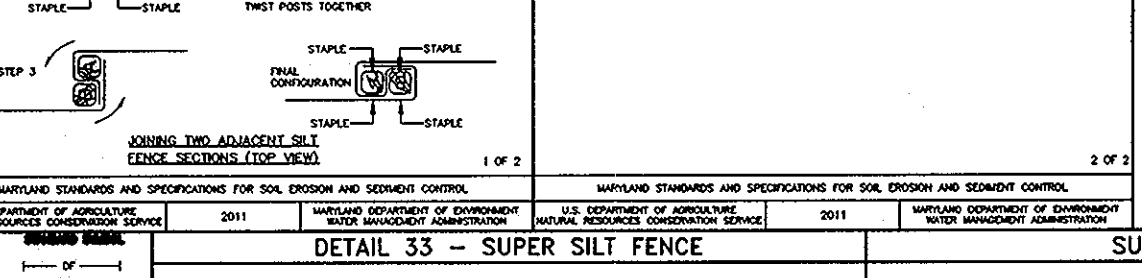
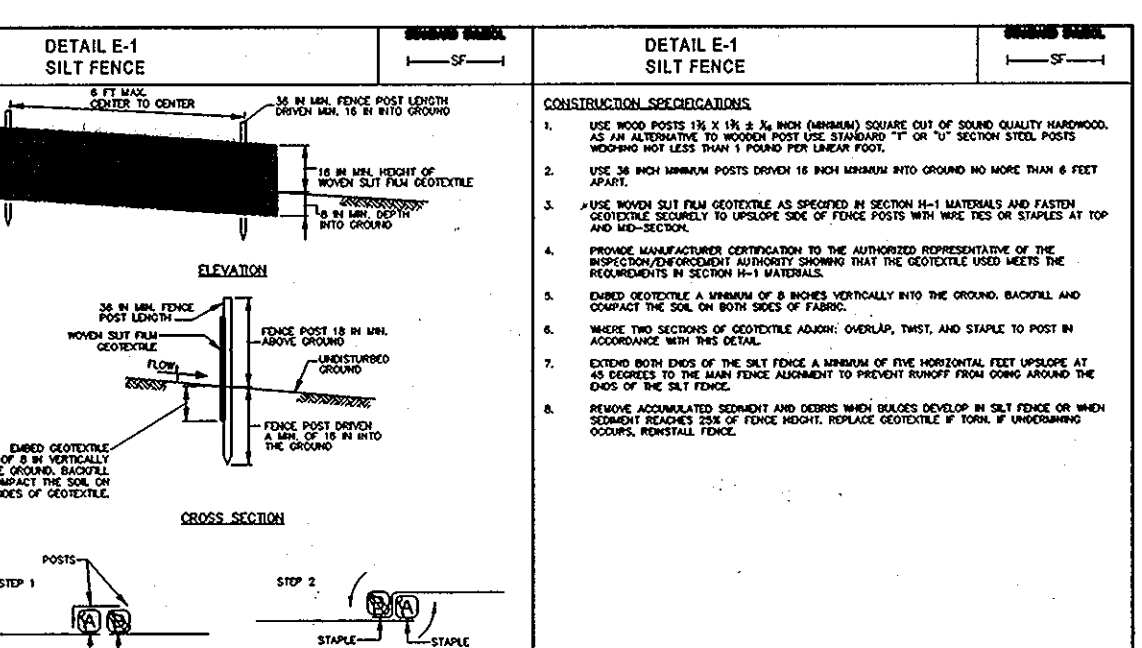


Table with columns for NO., DATE, REVISION, BENCHMARK ENGINEERING, INC., and PROJECT INFORMATION (BAKER PROPERTY).