

TOP OF CURB ELEVATION TABLE FOR TAWES STREET & LONGWOOD STREET

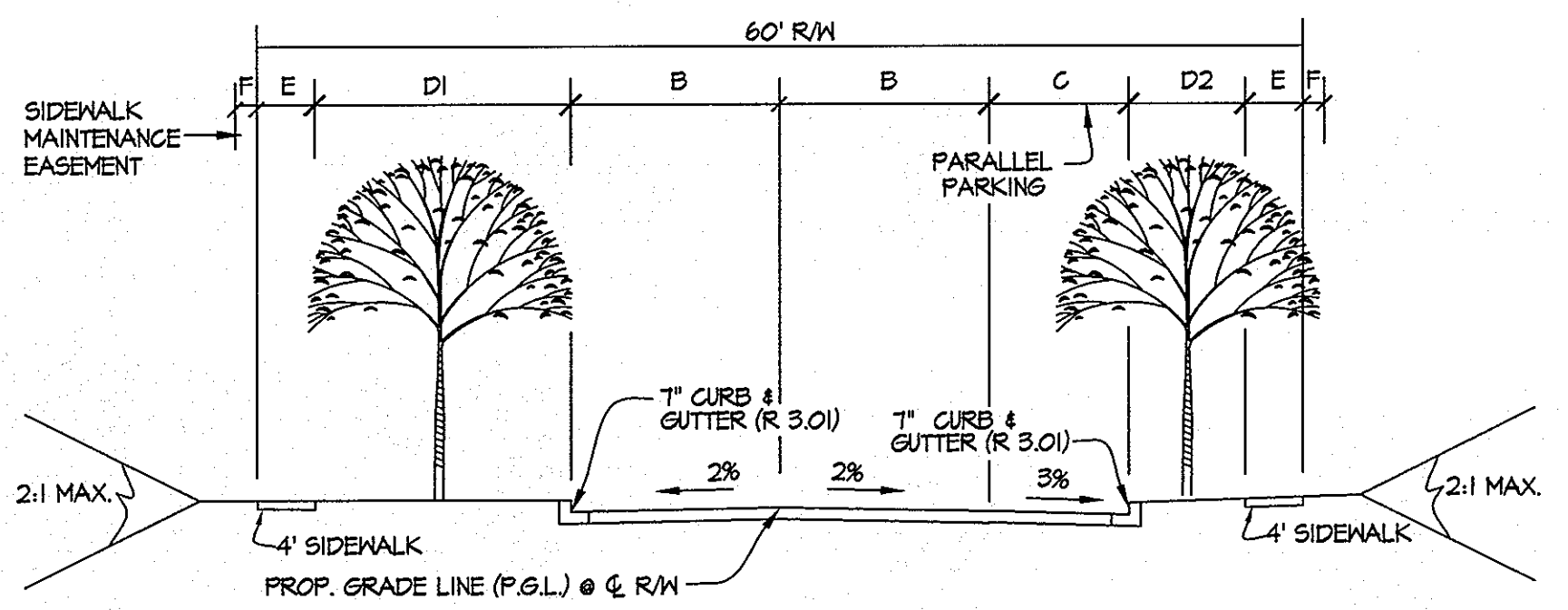
PT. NO.	STATION	OFFSET	ELEV.	ASBUILT
MATCH EXISTING				
1	7+87.85	12.5' Rt.	391.42	
2	8+07.12	12.0' Rt.	396.71	
3	8+15.72	20.0' Rt.	396.27	
4	8+43.73	20.0' Rt.	395.35	
5	8+49.63	20.0' Rt.	393.54	
6	9+53.52	20.0' Rt.	391.12	
7	10+06.35	20.0' Rt.	394.98	
8	10+14.35	12.0' Rt.	394.95	
9	10+81.52	12.0' Lt.	397.54	
10	10+81.52	12.0' Lt.	397.54	
11	10+73.57	21.4' Lt.	397.46	
12	0+32.00	14.0' Lt.	397.39	
MATCH EXISTING				
MATCH EXISTING				
13	2+35.00	14.0' Lt.	379.86	
14	0+32.00	14.0' Lt.	397.39	
15	10+36.66	17.4' Lt.	398.53	
16	10+22.51	12.0' Lt.	394.60	
17	9+53.52	12.0' Lt.	391.95	
18	8+49.63	12.0' Lt.	393.77	
19	8+43.73	12.0' Lt.	395.59	
20	7+87.85	12.0' Lt.	391.42	
MATCH EXISTING				

NOTE: ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

NOTES:
SEE SHEET 5 FOR STREET LIGHT SCHEDULE.
SEE SHEET 5 FOR STREET TREE REQUIREMENTS AND QUANTITIES.
SEE SHEET 11 FOR STORM DRAIN SIZE, TYPE, AND LENGTHS.

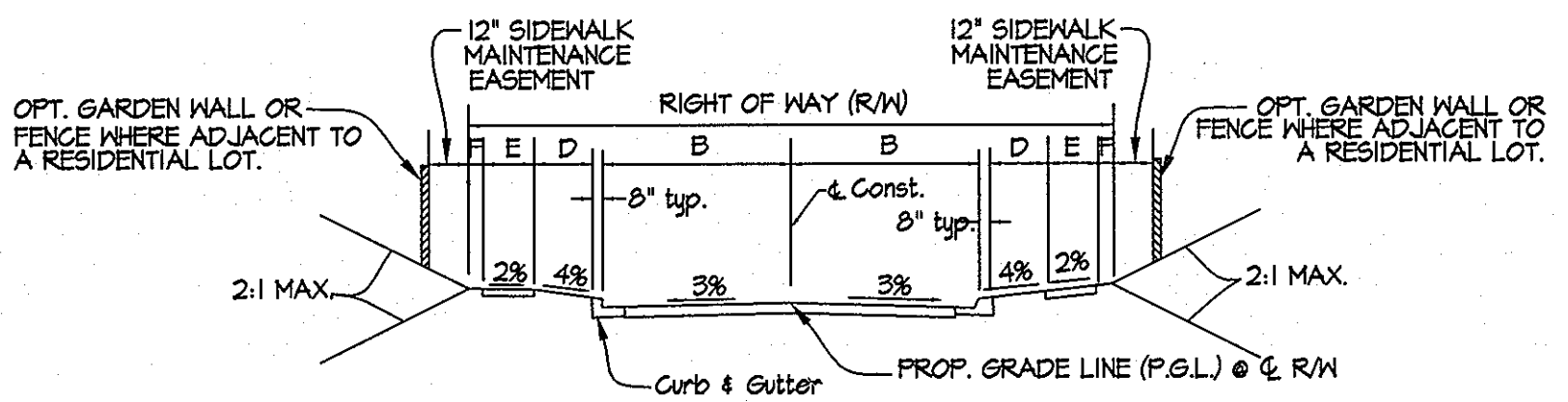
☉ CURVE DATA CHART

STREET NAME	CURVE	PC STA.	PT STA.	RADIUS	TANGENT	ARC	CHORD	BEARING	DELTA
TAWES STREET	☉	8+43.74	9+53.53	150.00'	57.48'	104.71'	107.35'	S 56°12'25" E	41°56'4"



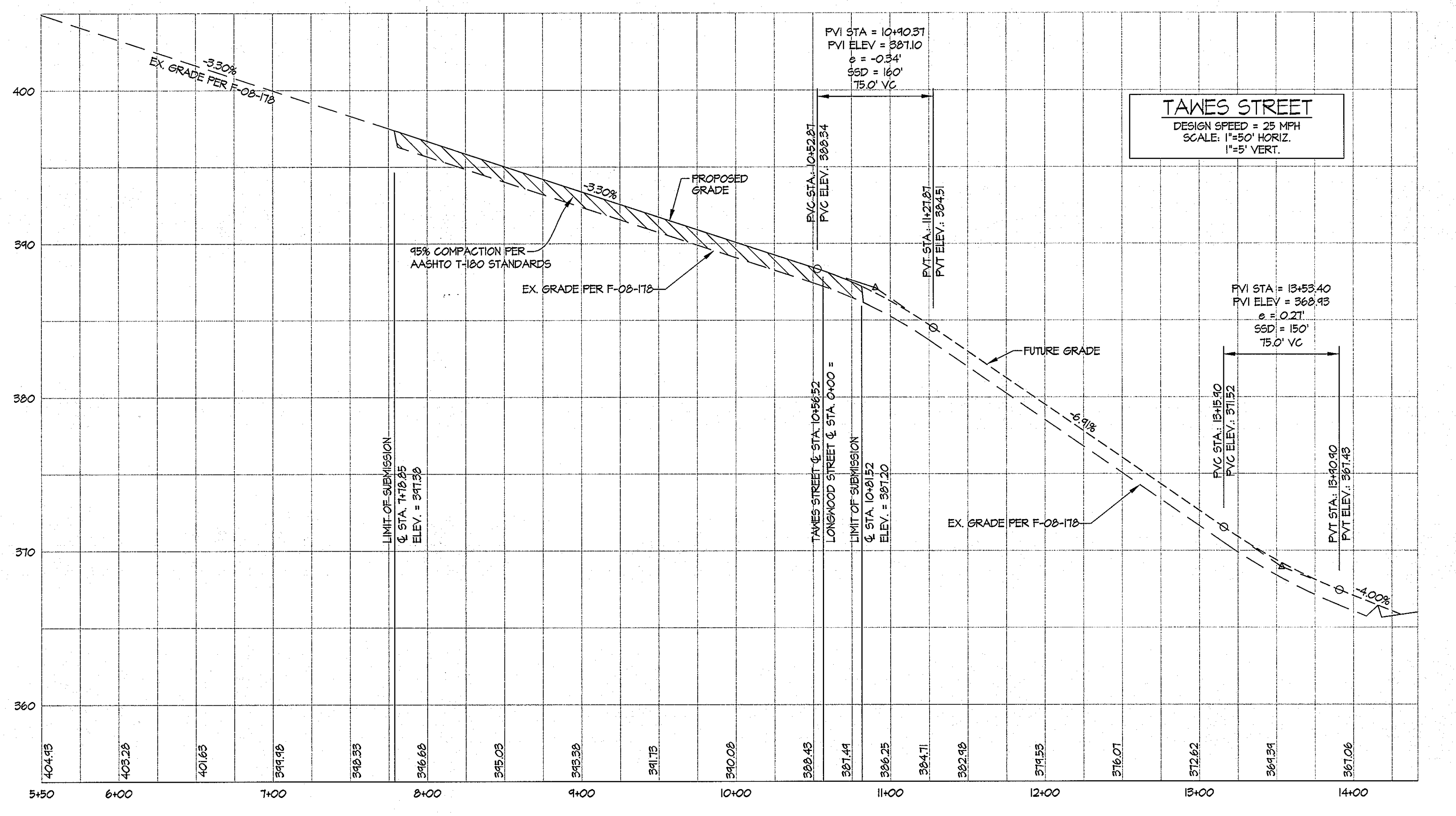
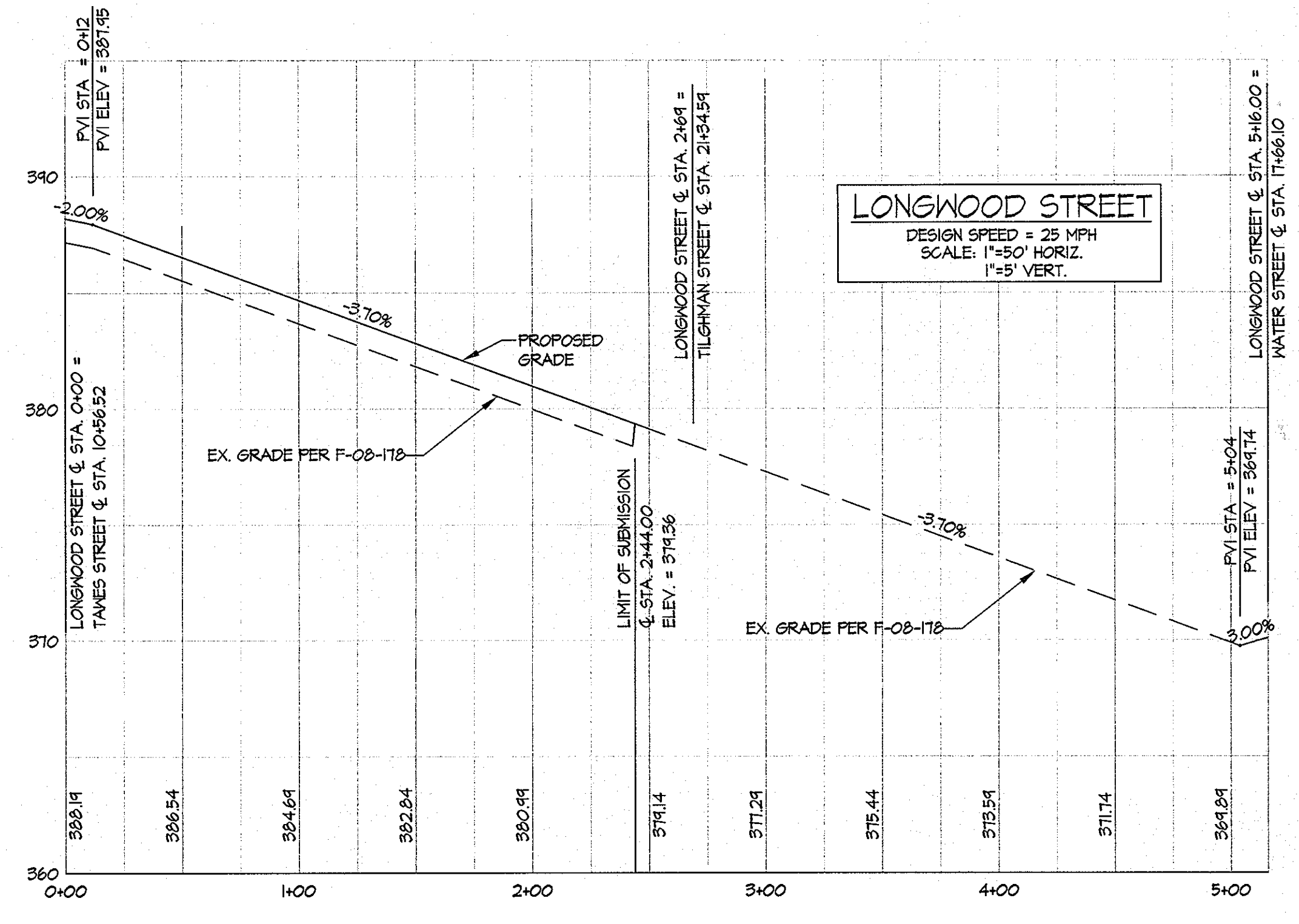
ROAD INFORMATION

ROAD NAME	STATION	CLASSIFICATION	DESIGN SPEED	A	B	C	D1	D2	E	F	R/M	SECTION
TAWES STREET	7+78.85 TO 10+81.52	MAJOR COLLECTOR	25 MPH	12'	8'	14'-8"	6'-8"	3'-4"	1'	60'	P-5	



ROAD INFORMATION

ROAD NAME	STATION	CLASSIFICATION	DESIGN SPEED	A	B	C	D	E	F	R/M	SECTION
LONGWOOD STREET	0+00 TO 2+44	ACCESS STREET	25 MPH	-	14'	-	6'	4'	4'	50'	P-5



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Howard R. ... 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Andy ... 9/15/08
 Chief, Division of Land Development Date

William ... 9/15/08
 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 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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. 12875
 EXPIRATION DATE: MAY 26, 2010



ROAD CONSTRUCTION PLAN - LONGWOOD ST. AND TAWES ST.

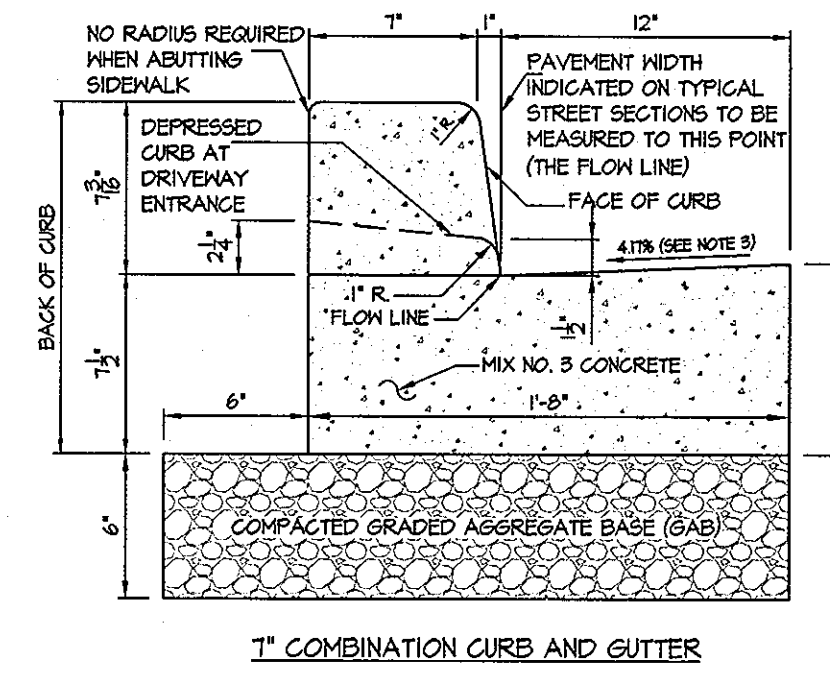
MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

HOWARD COUNTY, MARYLAND

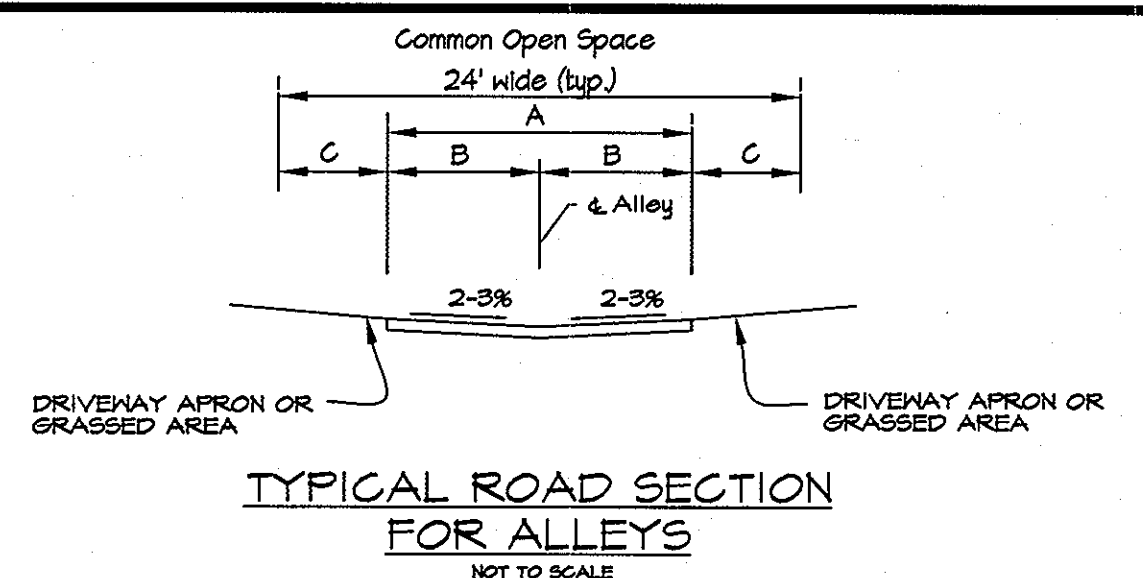
SCALE	ZONING	G. L. W. FILE NO.
1"=50'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	2 OF 19

PT. NO.	STATION	OFFSET	ELEV.	ASBUILT
(25)				MATCH EXISTING
(26)	1+56.50	14.00' Lt.	417.53	
(27)	1+54.00	14.00' Rt.	417.53	
(28)				MATCH EXISTING

NOTES:
 SEE SHEET 5 FOR STREET LIGHT SCHEDULE.
 SEE SHEET 5 FOR STREET TREE REQUIREMENTS AND QUANTITIES.
 SEE SHEET 11 FOR STORM DRAIN SIZE, TYPE, AND LENGTHS

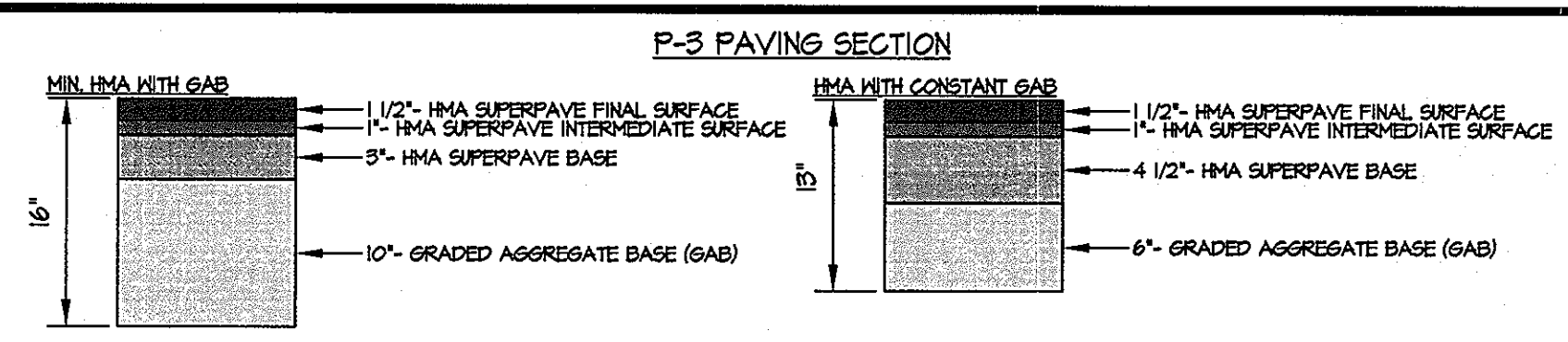


- NOTES:
- STANDARD T-COMBINATION CURB AND GUTTER TO BE USED IN ALL PUBLIC RIGHTS OF WAY.
 - A REVERSE GUTTER PAN SHALL HAVE A GUTTER SLOPE OF 4.17% AWAY FROM THE FLOW LINE, AND SHALL NOT BE USED WHERE THIS DRAINAGE CREATES A HAZARDOUS CONDITION.
 - GUTTER PAN AT MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT. MATCH PAVEMENT CROSS SLOPE WHEN CURB IS LOCATED ON THE LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN 3% FOR MODIFIED CURB AND GUTTER.
 - A MINIMUM OF TWO (2) FEET OF COMPACTED STABILIZED EARTH, OR EQUIVALENT, SHALL SUPPORT THE ENTIRE BACK OF CURB.
 - POSITIVE DRAINAGE SHALL BE PROVIDED BOTH BEHIND THE CURB AND ALONG THE GUTTER AND FLOW LINE.

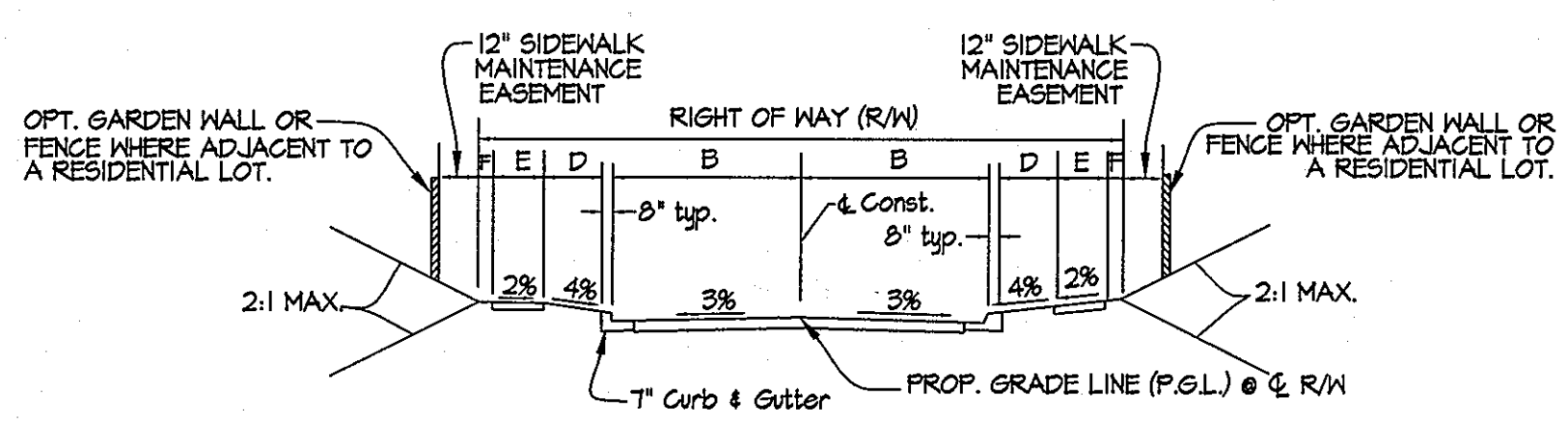
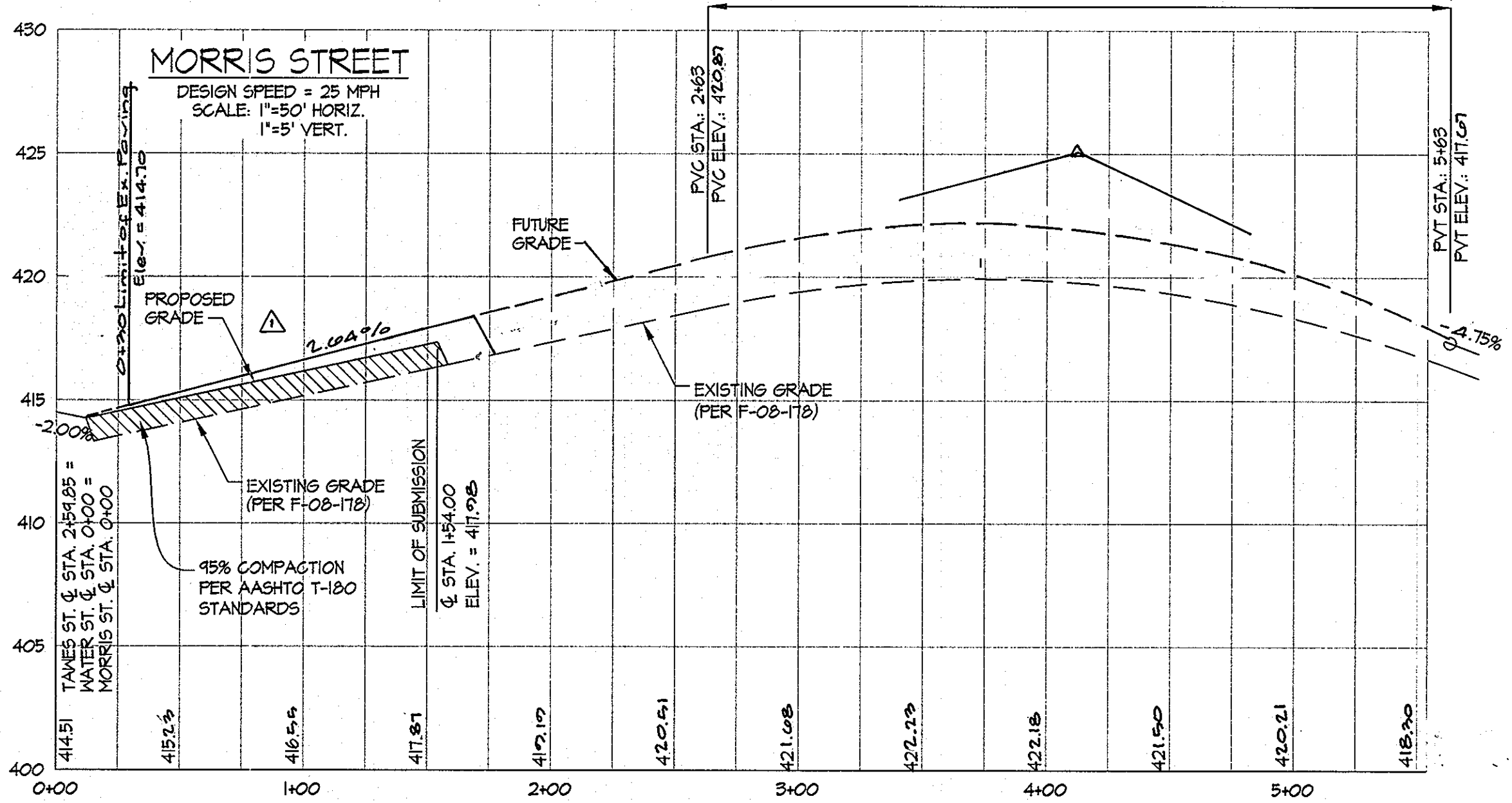
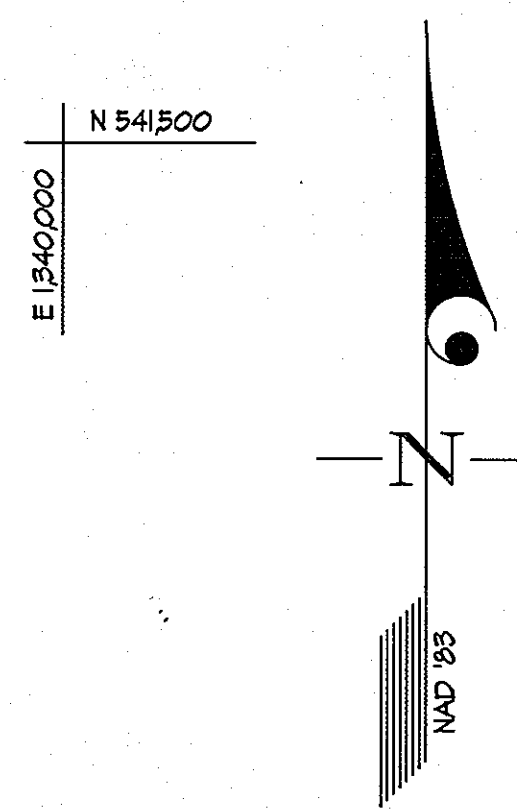
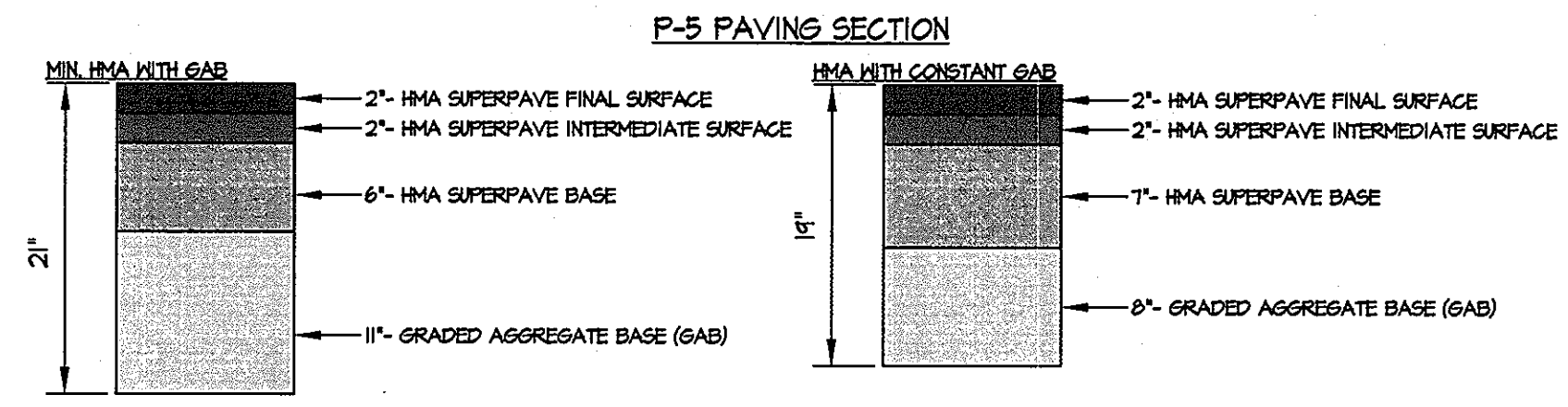


ROAD NAME	STATION	ROAD CLASSIFICATION	DESIGN SPEED	A'	B'	C'	D	E	F	R/W	PAVING SECTION
PRIVATE ALLEYS	N/A	N/A	N/A	16'	8'	4'	-	-	-	-	P-3

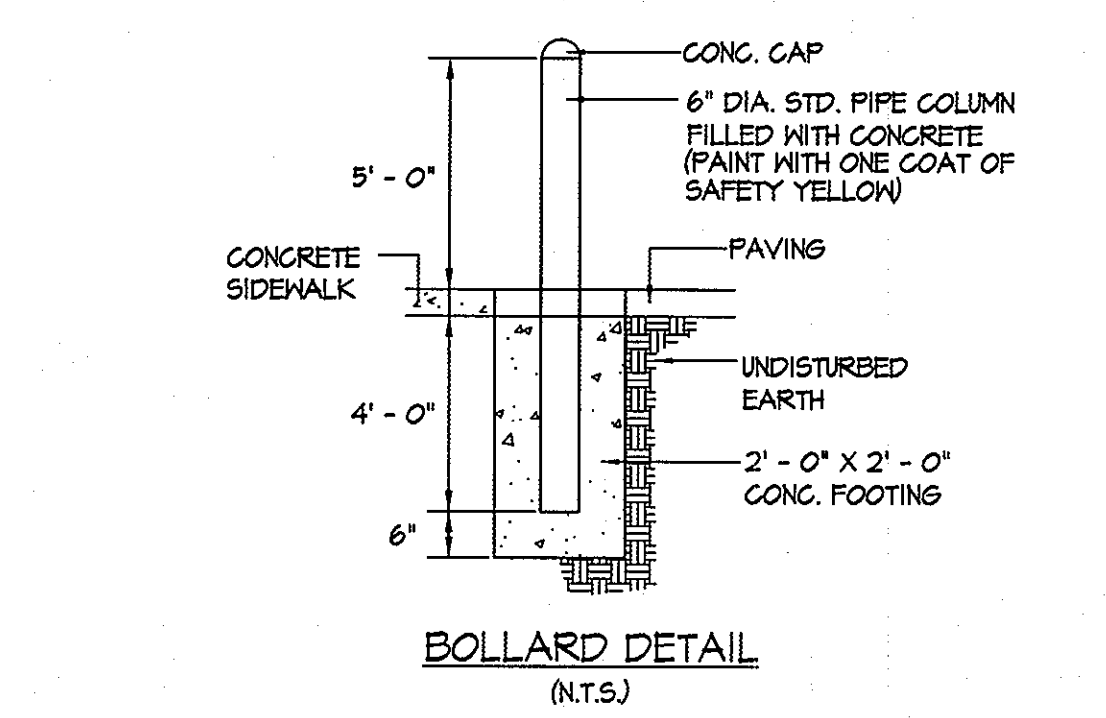
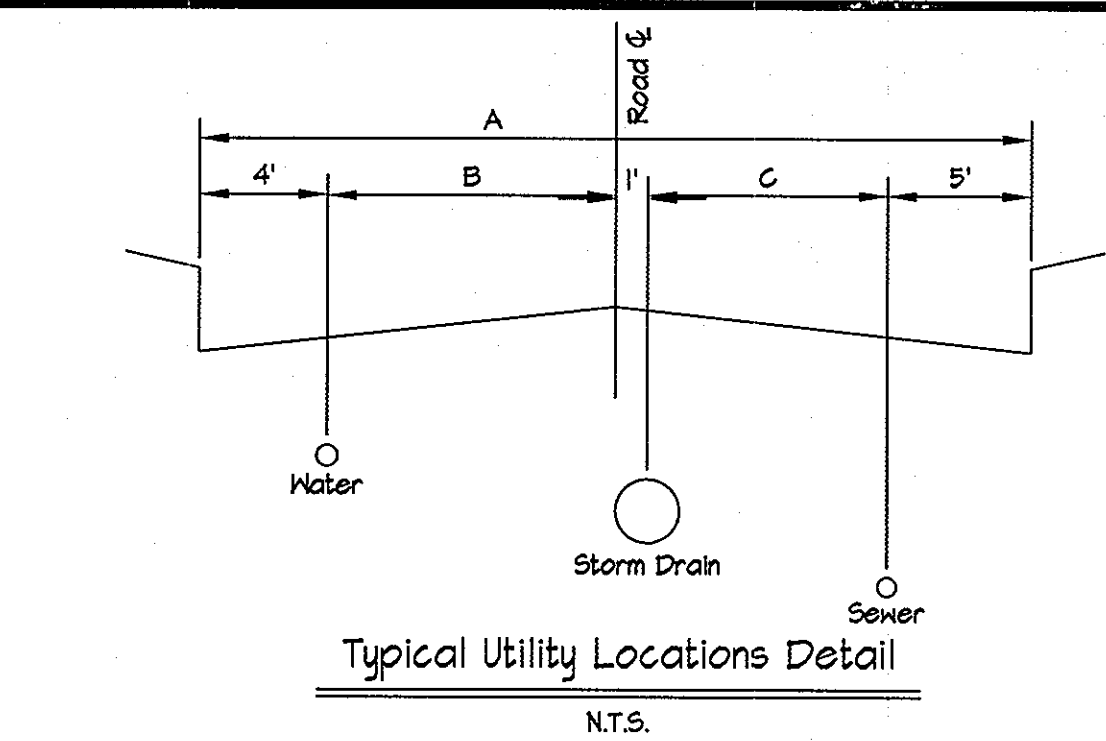
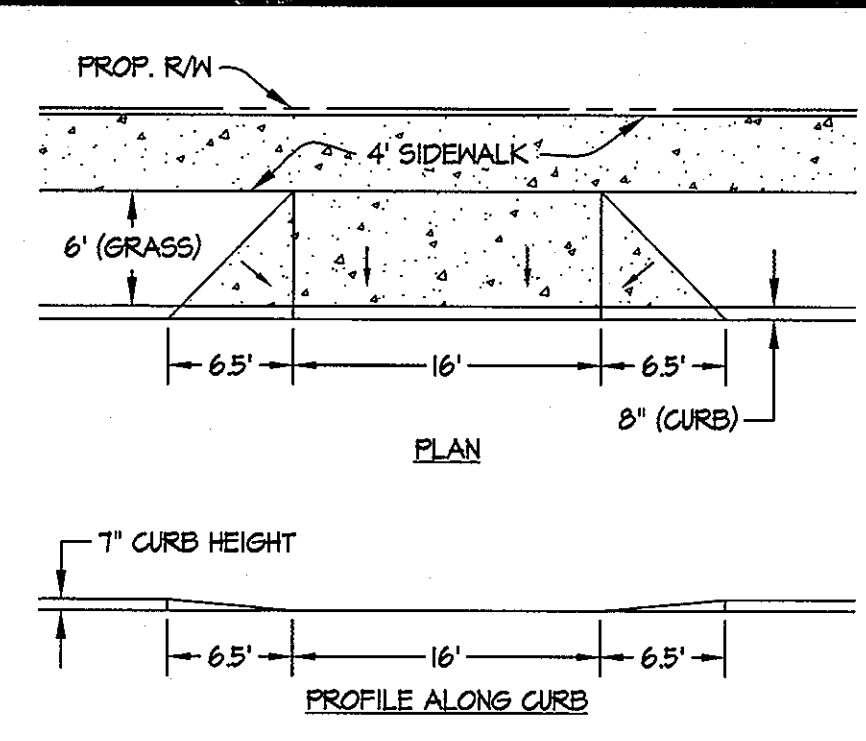
* DIMENSIONS SHOWN ARE MINIMUMS.



Paving Sections
 N.T.S.
 Note: Depending on the CBR values obtained in the field, the paving sections may be revised, if approved by a professional soils engineer. These substitutions must also be approved by the Howard County Dept. of Public Works.



ROAD NAME	STATION	CLASSIFICATION	DESIGN SPEED	A	B	C	D	E	F	R/W	SECTION
MORRIS STREET	0+00 TO 1+54	ACCESS STREET	25 MPH	-	14'	-	6'	4'	4'	50'	P-5



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 9-15-08
 Chief, Bureau of Highways

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 9/15/08
 Chief, Division of Land Development

[Signature] 9/10/08
 Chief, Development Engineering Division

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BIRTONVILLE OFFICE PARK
 BIRTONVILLE, MARYLAND 20865
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-589-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.
12-7-07	Removed 14'-00" Rev. Yard Drain and Rev. Road Grade	[Signature]	[Signature]

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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
 EXPIRATION DATE: MAY 28, 2010

ROAD CONSTRUCTION PLAN (MORRIS STREET) AND ROAD DETAILS

MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE: 1"=50'
 ZONING: MXD-3
 G. L. W. FILE No. 06001

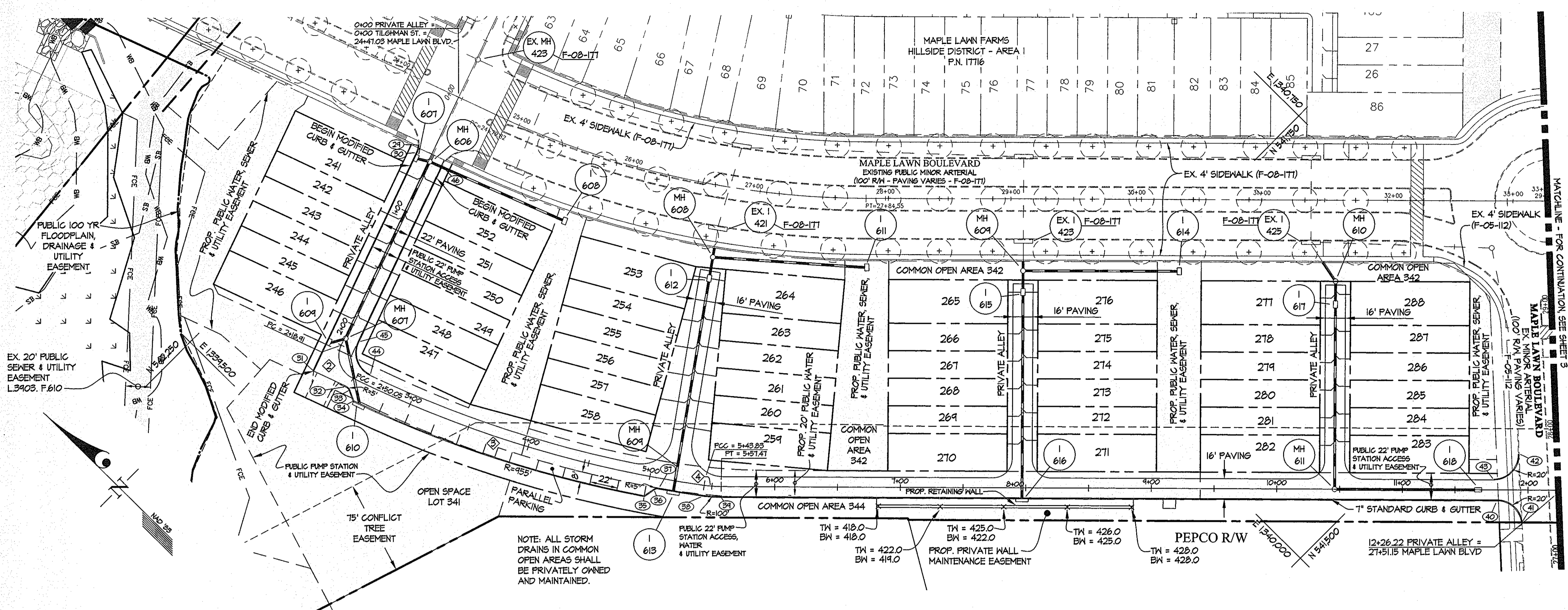
DATE: AUG., 2008
 TAX MAP - GRID: 41-21&22
 SHEET: 3 OF 19

ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

C CURVE DATA CHART									
STREET NAME	CURVE	PC STA.	PT STA.	RADIUS	TANGENT	ARC	CHORD	BEARING	DELTA
PRIVATE ALLEY	↺	2+18.91	2+50.05	20.00'	14.72'	31.32'	28.30'	S 29°54'22" W	84°12'21"
PRIVATE ALLEY	↻	2+50.05	5+43.83	494.34'	148.10'	243.78'	242.63'	S 27°43'51" E	117°53'04"
PRIVATE ALLEY	↺	5+43.83	5+57.47	100.00'	6.84'	13.64'	13.63'	S 40°54'01" E	7°44'03"

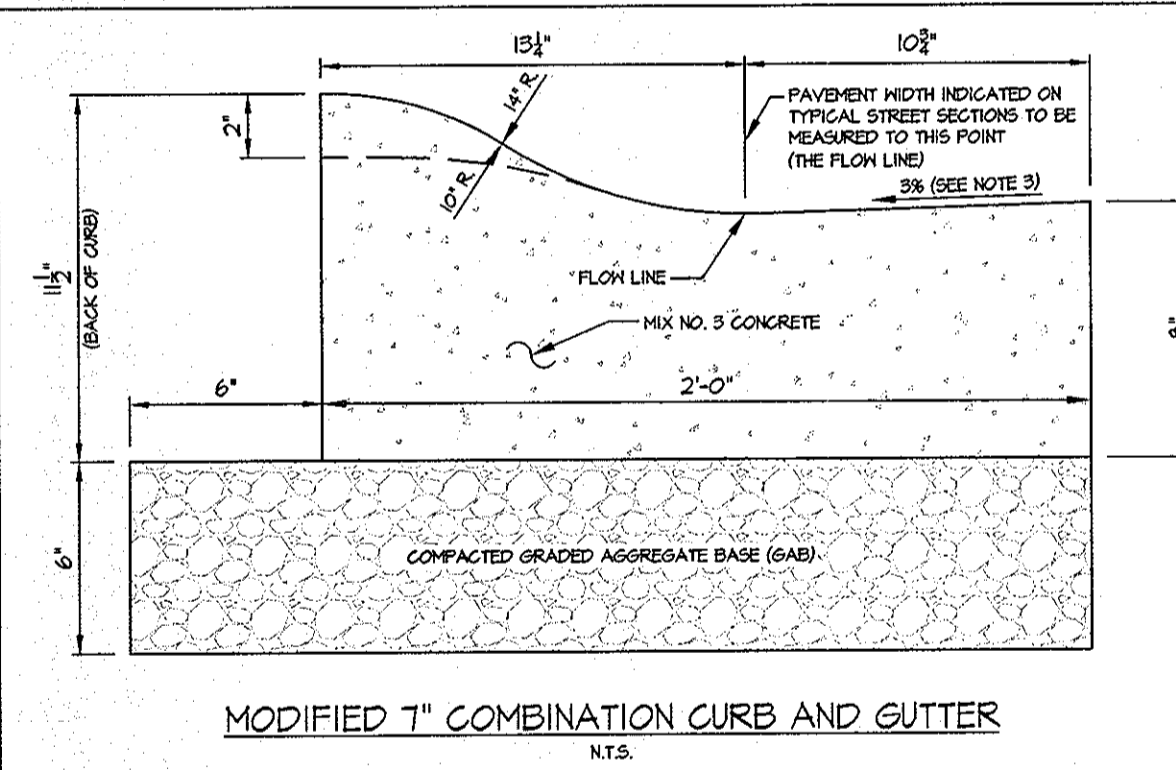
TOP OF CURB ELEVATION TABLE FOR PRIV. ALLEY (COMMON OPEN AREA 341)				
PT. NO.	STATION	OFFSET	ELEV.	ASBUILT
(28)				MATCH EXISTING
(30)	0+53.77	11.0' RL	308.60	
(31)	2+33.64	21.8' RL	308.40	
(32)	2+48.91	8.2' RL	304.74	
(33)	2+51.98	9.5' RL	304.80	
(34)	2+58.47	16.0' RL	304.97	
(35)	4+48.35	16.0' RL	404.60	
(36)	5+04.88	9.5' RL	405.04	
(37)	5+08.35	8.1' RL	405.28	
(38)	5+44.28	8.6' RL	407.42	
(39)	5+57.67	8.1' RL	408.24	
(40)	11+75.67	8.0' RL	428.21	
(41)				MATCH EXISTING
(42)				MATCH EXISTING
(43)	11+72.25	NOSE DOWN CURB		
(44)	2+61.31	NOSE DOWN CURB		
(45)	2+11.00	11.0' LL	390.60	
(46)				MATCH EXISTING

NOTES:
 SEE SHEET 5 FOR STREET LIGHT SCHEDULE.
 SEE SHEET 5 FOR STREET TREE REQUIREMENTS AND QUANTITIES.
 SEE SHEET 11 FOR STORM DRAIN SIZE, TYPE, AND LENGTHS.

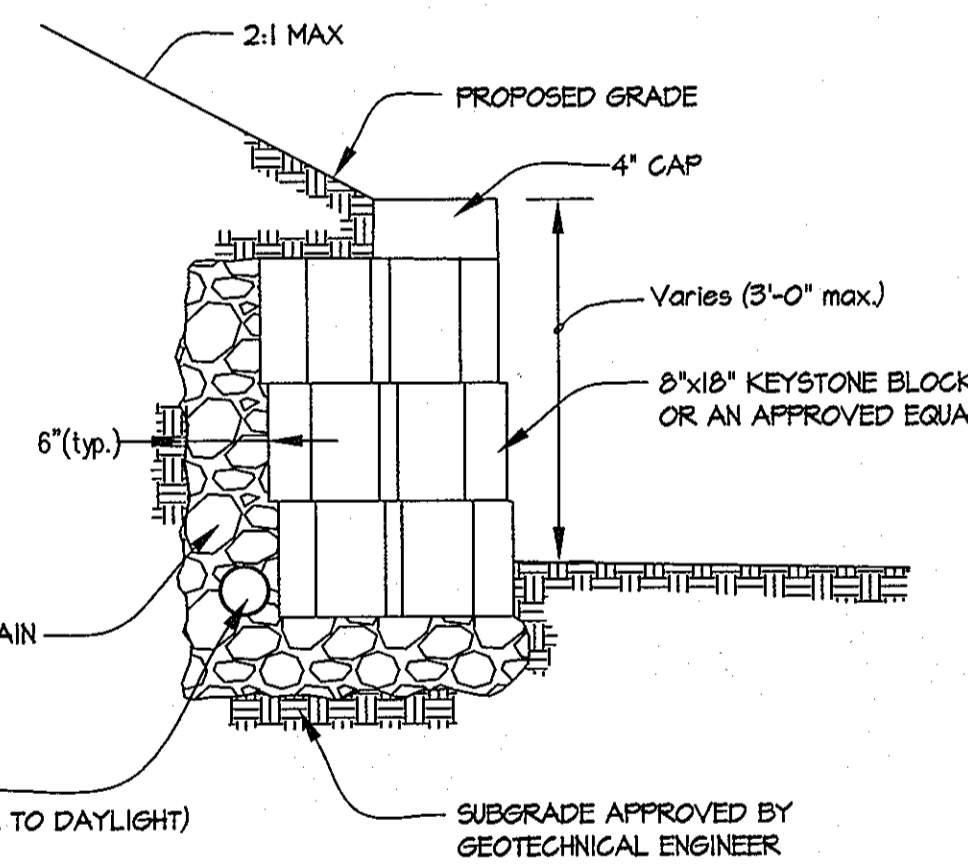


NOTE: ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

TH = 418.0
 BM = 418.0
 TH = 422.0
 BM = 419.0
 TH = 425.0
 BM = 422.0
 TH = 426.0
 BM = 425.0
 TH = 428.0
 BM = 428.0



- NOTES:
- STANDARD 7" COMBINATION CURB AND GUTTER TO BE USED IN ALL PUBLIC RIGHTS OF WAY.
 - A REVERSE GUTTER PAN SHALL HAVE A GUTTER SLOPE OF 4.17% AWAY FROM THE FLOW LINE, AND SHALL NOT BE USED WHERE THIS DRAINAGE CREATES A HAZARDOUS CONDITION.
 - GUTTER PAN AT MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT. MATCH PAVEMENT CROSS SLOPE WHEN CURB IS LOCATED ON THE LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN 3% FOR MODIFIED CURB AND GUTTER.
 - A MINIMUM OF TWO (2) FEET OF COMPACTED STABILIZED EARTH, OR EQUIVALENT, SHALL SUPPORT THE ENTIRE BACK OF CURB.
 - POSITIVE DRAINAGE SHALL BE PROVIDED BOTH BEHIND THE CURB AND ALONG THE GUTTER AND FLOW LINE.



WALL DETAIL (IN COMMON OPEN AREA 344 ALONG PEPCO R/W)
 NOT TO SCALE
 NOTE: DRAIN SYSTEM IS SUITABLE FOR WALL SITES WHERE GROUND WATER SEEPAGE DOES NOT EXIST. A GEOTECHNICAL ENGINEER SHALL EVALUATE THE WALL SITE FOR GROUNDWATER CONDITIONS AND PROVIDE ALTERNATIVE WALL DRAIN DETAILS AS NEEDED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 5-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 9/15/08
 Chief, Division of Land Development Date

[Signature] 9/18/08
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3809 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

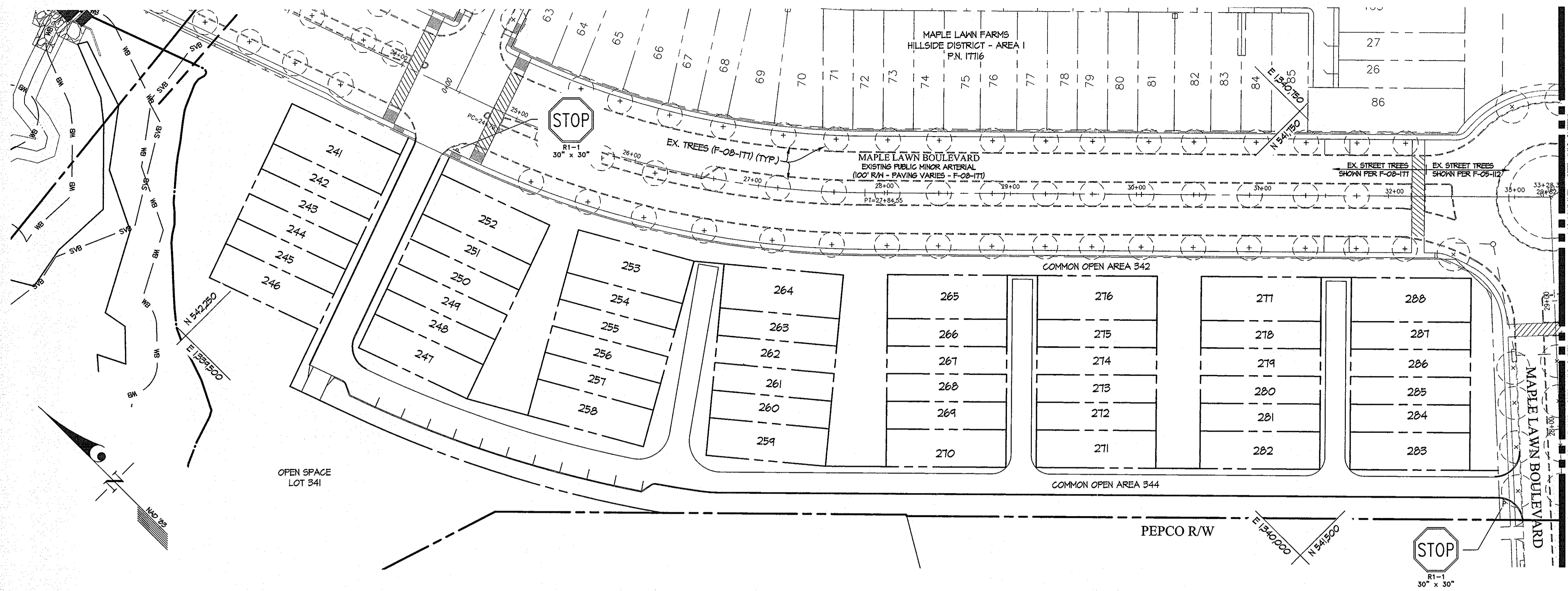
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975
 EXPIRATION DATE: MAY 26, 2010



ROAD CONSTRUCTION PLANS - COMMON OPEN AREA 344

MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 1
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE	ZONING	G. L. W. FILE No.
1"=50'	MXD-3	06001
DATE	TAX MAP GRID	SHEET
AUG., 2008	41-21&22	4 OF 19



STREET LIGHT SCHEDULE			
LOCATION	LAMP TYPE	FIXTURE	POLE TYPE
☐ STA. 9+27 TAVES ST. 14' L.	100-WATT HPS VAPOR	ACORN POST	12' BLACK FIBERGLASS
☐ STA. 10+57 TAVES ST. 14' R.	100-WATT HPS VAPOR	ACORN POST	12' BLACK FIBERGLASS
☐ STA. 11+54 LONGWOOD ST. 18' L.	100-WATT HPS VAPOR	ACORN POST	12' BLACK FIBERGLASS
☐ STA. 11+54 MORRIS ST. 18' L.	100-WATT HPS VAPOR	ACORN POST	12' BLACK FIBERGLASS

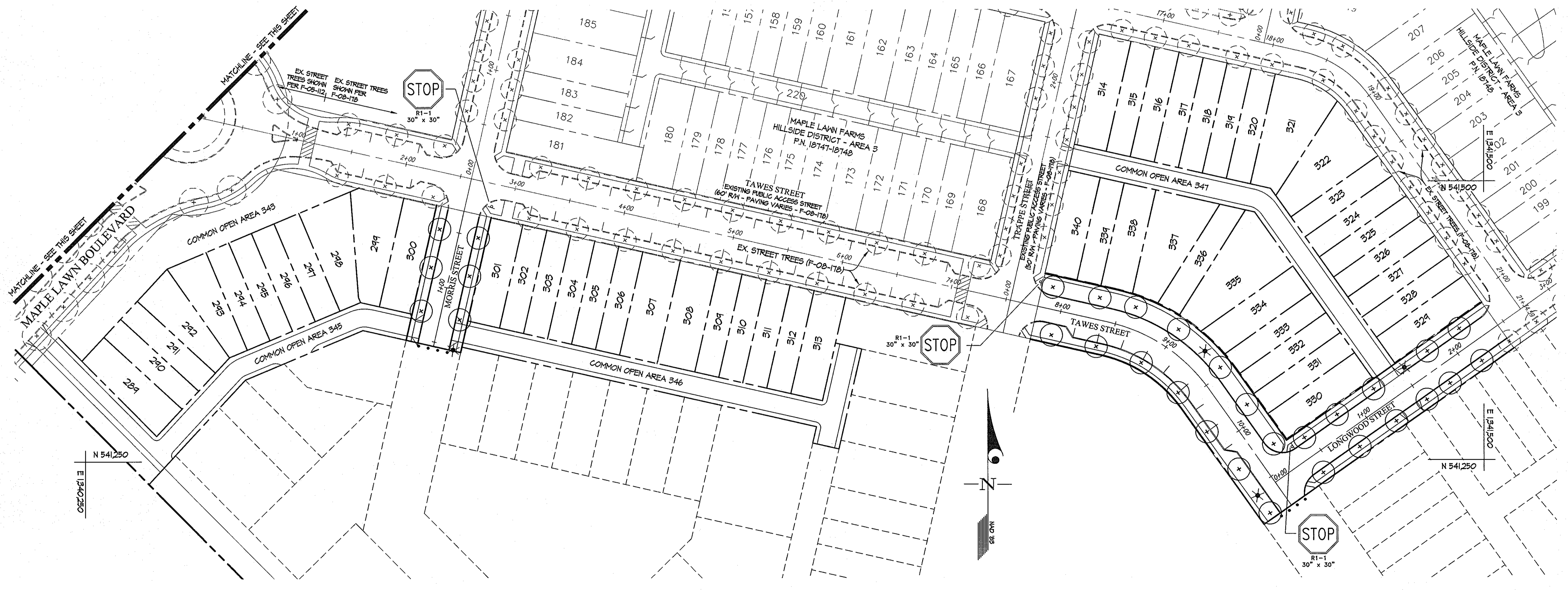
STREET LIGHT LEGEND
 * 100 WATT HPS VAPOR (ACORN POST TOP)

STREET TREE REQUIREMENTS			
ROAD	LENGTH OF CURB	# OF TREES REQUIRED	# OF TREES PROVIDED
TAVES STREET	555'	14	14
LONGWOOD STREET	440'	11	11
MORRIS STREET	200'	5	6

SYMBOL	NAME (BOTANICAL/COMMON)	SIZE	REMARKS
⊕	Acer Saccharum / Green Mountain Sugar Maple	2 1/2" cal.	B & B Full Heads
⊕	Acer Saccharum / Green Mountain Sugar Maple	EXISTING PER F-08-TT1, F-08-H2, 41-08-17B	

NOTE: SEE SHEET 14 FOR TREE PLANTING DETAIL.
 SEE SHEET 11 FOR STORM DRAIN SIZE, TYPE AND LENGTH.
 Minimum tree quantities and preferred spacing are as follows:
 Maple Lawn Blvd. & 1 tree per 40 linear feet, both sides; larger Blvd.
 All other streets: 1 tree per 40 linear feet, both sides;
 Private Alleys: No trees required.

These are only minimum standards. Trees should be placed to align where possible with lot lines and demising walls of units so as to avoid blocking the fronts and/or doors and windows of units.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William J. Colwell 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cindy Hamer 9/17/08
 Chief, Division of Land Development Date

William J. Colwell 9/15/08
 Chief, Development Engineering Division Date

THE PURPOSE OF THIS PLAN IS TO SHOW SIGNING, STRIPING, AND STREET TREE LOCATIONS ONLY!! FOR CLARITY, EASEMENTS HAVE NOT BEEN SHOWN.

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONTVILLE OFFICE PARK
 BURTONTVILLE, MARYLAND 20996
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-589-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

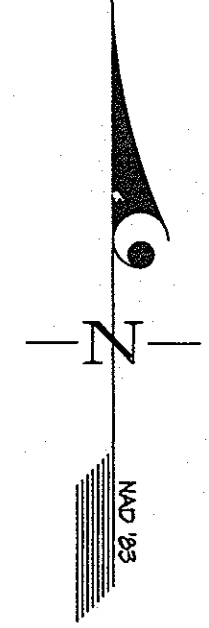
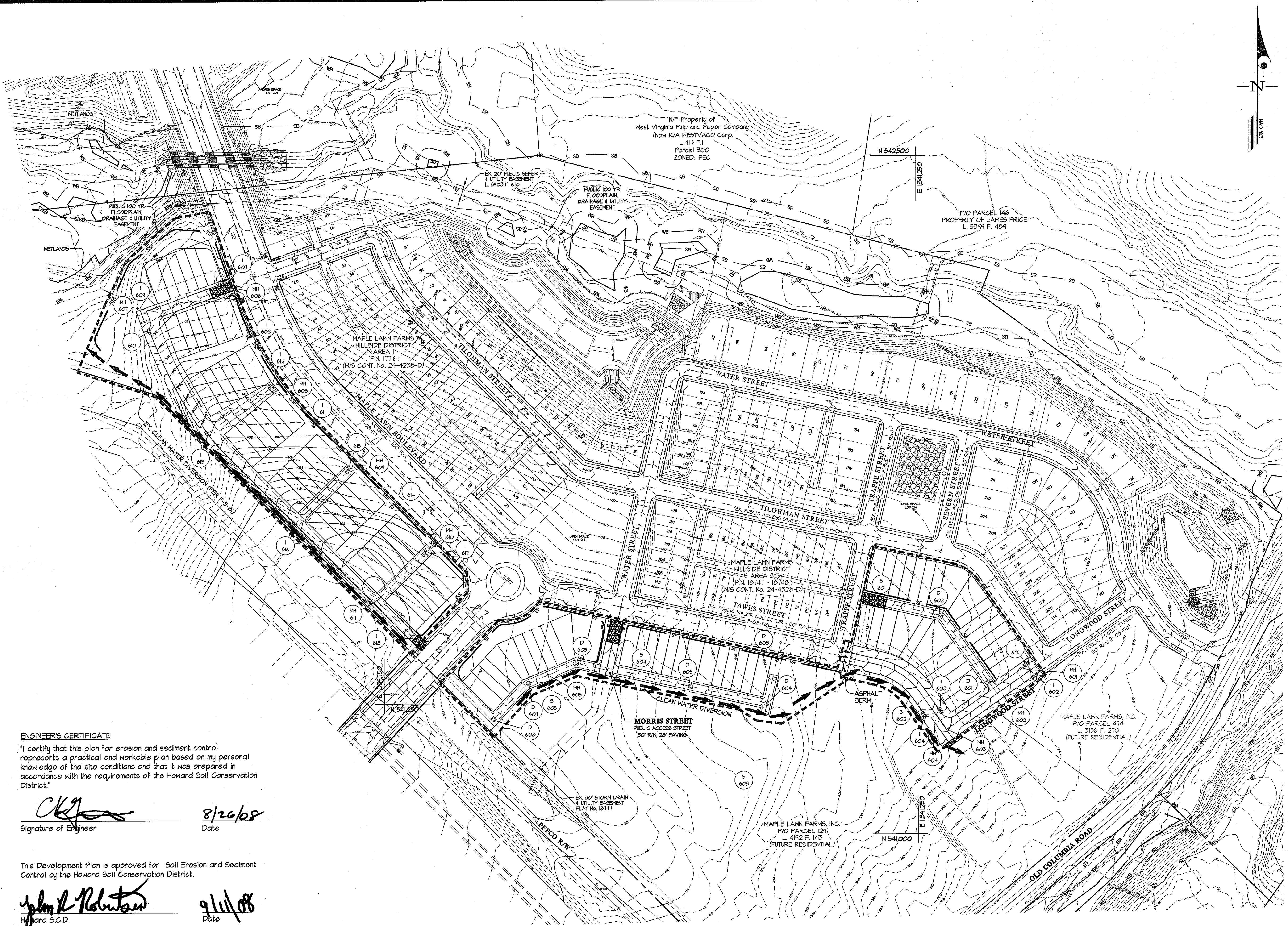
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12976
 EXPIRATION DATE: MAY 26, 2010



SIGNING, STREET TREE, AND STREET LIGHT PLAN
MAPLE LAWN FARMS
HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=50'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	5 OF 19

- LEGEND**
- 410 — EX. CONTOURS
 - WB — WETLAND BUFFER
 - SB — STREAM BUFFER
 - 100 YR. FLOODPLAIN
 - SF — SILT FENCE
 - SSF — SUPER SILT FENCE
 - CLEAN WATER DIVERSION
 - AGIP AT-GRADE INLET PROTECTION
 - CIP CURB INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - LIMIT OF PLAN SUBMISSION



- CONTRACTOR NOTES:**
- FOR STORM DRAIN SIZES SEE SHEET II.
 - WHERE THE L.O.D. IS NOT SHOWN, THE SEDIMENT CONTROL DEVICES WILL INDICATE THE LIMIT OF DISTURBANCE.
 - CONTRACTOR MUST TURN ALL SILT FENCE AND SUPER SILT FENCE UPHILL BY 2' IN ELEVATION.
 - FOR SEQUENCE OF CONSTRUCTION, SEE SHEET 10.
 - ALL PROPOSED SEDIMENT CONTROL DEVICES LIE WITHIN PROPERTY CONTROLLED BY OWNER. THE LIMIT OF PLAN SUBMISSION IS NOT THE LIMIT OF DISTURBANCE.

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

Signature of Developer/Builder: *[Signature]* Date: 8/26/08

ENGINEER'S CERTIFICATE

"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 requirements of the Howard Soil Conservation District."

Signature of Engineer: *[Signature]* Date: 8/26/08

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: *[Signature]* Date: 9-15-08

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

Signature: *[Signature]* Date: 9/11/08

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature: *[Signature]* Date: 9/16/08

Signature: *[Signature]* Date: 9/16/08

GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
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ATTN: CHARLIE O'DONOVAN
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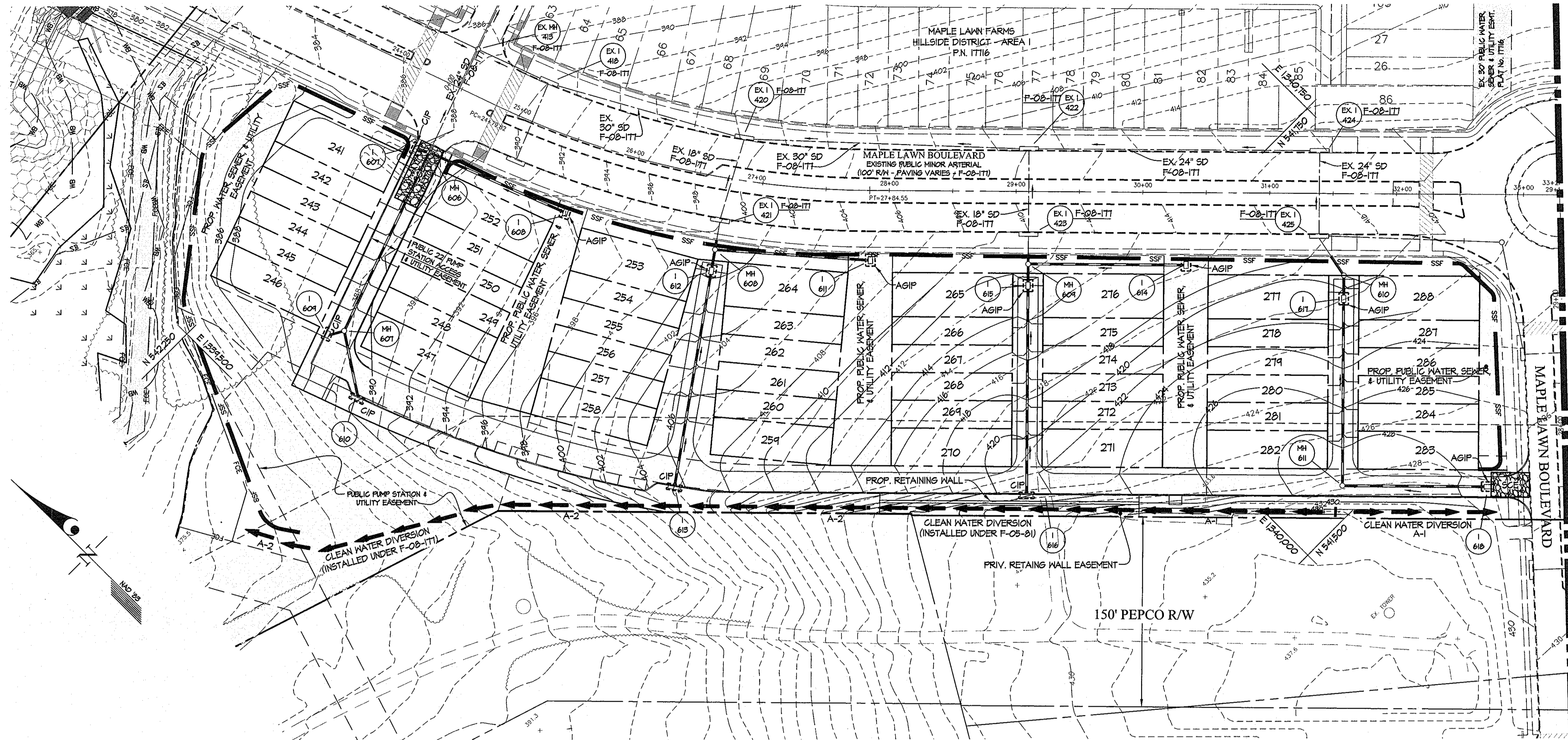
OVERALL SEDIMENT CONTROL PLAN

MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4

Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE	ZONING	G. L. W. FILE No.
1"=100'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	6 OF 19

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- LEGEND**
- EX. CONTOURS
 - WETLAND BUFFER
 - STREAM BUFFER
 - 100 YR. FLOODPLAIN
 - SILT FENCE
 - SUPER SILT FENCE
 - CLEAN WATER DIVERSION
 - AGIP AT-GRADE INLET PROTECTION
 - CIP CURB INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE

- CONTRACTOR NOTES:**
1. FOR STORM DRAIN SIZES SEE SHEET II.
 2. WHERE THE L.O.D. IS NOT SHOWN, THE SEDIMENT CONTROL DEVICES WILL INDICATE THE LIMIT OF DISTURBANCE.
 3. CONTRACTOR MUST TURN ALL SILT FENCE AND SUPER SILT FENCE UPHILL BY 2' IN ELEVATION.
 4. FOR SEQUENCE OF CONSTRUCTION, SEE SHEET IO.
 5. ALL PROPOSED SEDIMENT CONTROL DEVICES LIE WITHIN PROPERTY CONTROLLED BY OWNER. THE LIMIT OF PLAN SUBMISSION IS NOT THE LIMIT OF DISTURBANCE.

DEVELOPERS/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

Signature of Developer/Builder: *[Signature]* Date: 8-26-08

ENGINEER'S CERTIFICATE

"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 requirements of the Howard Soil Conservation District."

Signature of Engineer: *[Signature]* Date: 8/26/08

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

Signature of Howard S.C.D.: *[Signature]* Date: 9/16/08

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8-15-08
 Chief, Bureau of Highways

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 9/15/08
 Chief, Division of Land Development

[Signature] 9/16/08
 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

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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
 EXPIRATION DATE: MAY 26, 2010



SEDIMENT CONTROL PLAN
MAPLE LAWN FARMS
HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

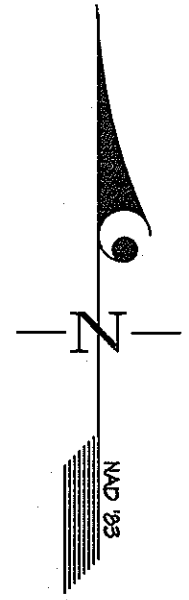
SCALE	ZONING	G. L. W. FILE No.
1"=50'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	7 OF 19

DATE: _____ REVISION: _____ BY: _____ APPR: _____

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

- LEGEND**
- 410 --- EX. CONTOURS
 - vs --- WETLAND BUFFER
 - sb --- STREAM BUFFER
 - 100 YR. FLOODPLAIN
 - sf --- SILT FENCE
 - ssf --- SUPER SILT FENCE
 - >--- CLEAN WATER DIVERSION
 - AGIP AT-GRADE INLET PROTECTION
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 - STABILIZED CONSTRUCTION ENTRANCE



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 - CONTRACTOR MUST TURN ALL SILT FENCE AND SUPER SILT FENCE UPHILL BY 2' IN ELEVATION.
 - FOR SEQUENCE OF CONSTRUCTION SEE SHEET 10.
 - ALL PROPOSED SEDIMENT CONTROL DEVICES LIE WITHIN PROPERTY CONTROLLED BY OWNER. THE LIMIT OF PLAN SUBMISSION IS NOT THE LIMIT OF DISTURBANCE.



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Signature of Developer/Builder: *[Signature]* Date: 8-28-08

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[Signature] 9-15-08
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[Signature] 9/15/08
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GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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DATE	REVISION	BY	APPR.

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 EXPIRATION DATE: MAY 28, 2010



SEDIMENT CONTROL PLAN

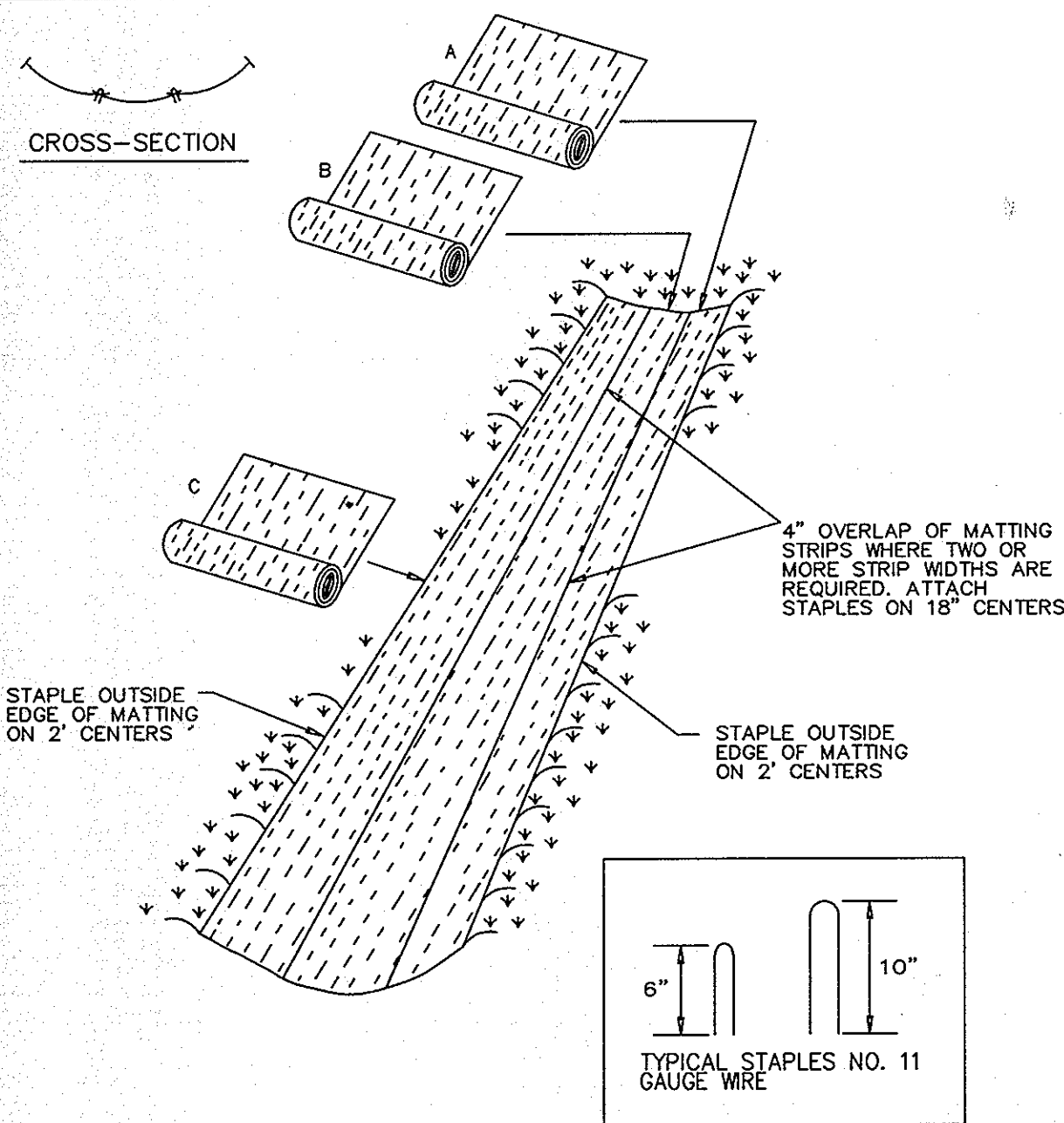
MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
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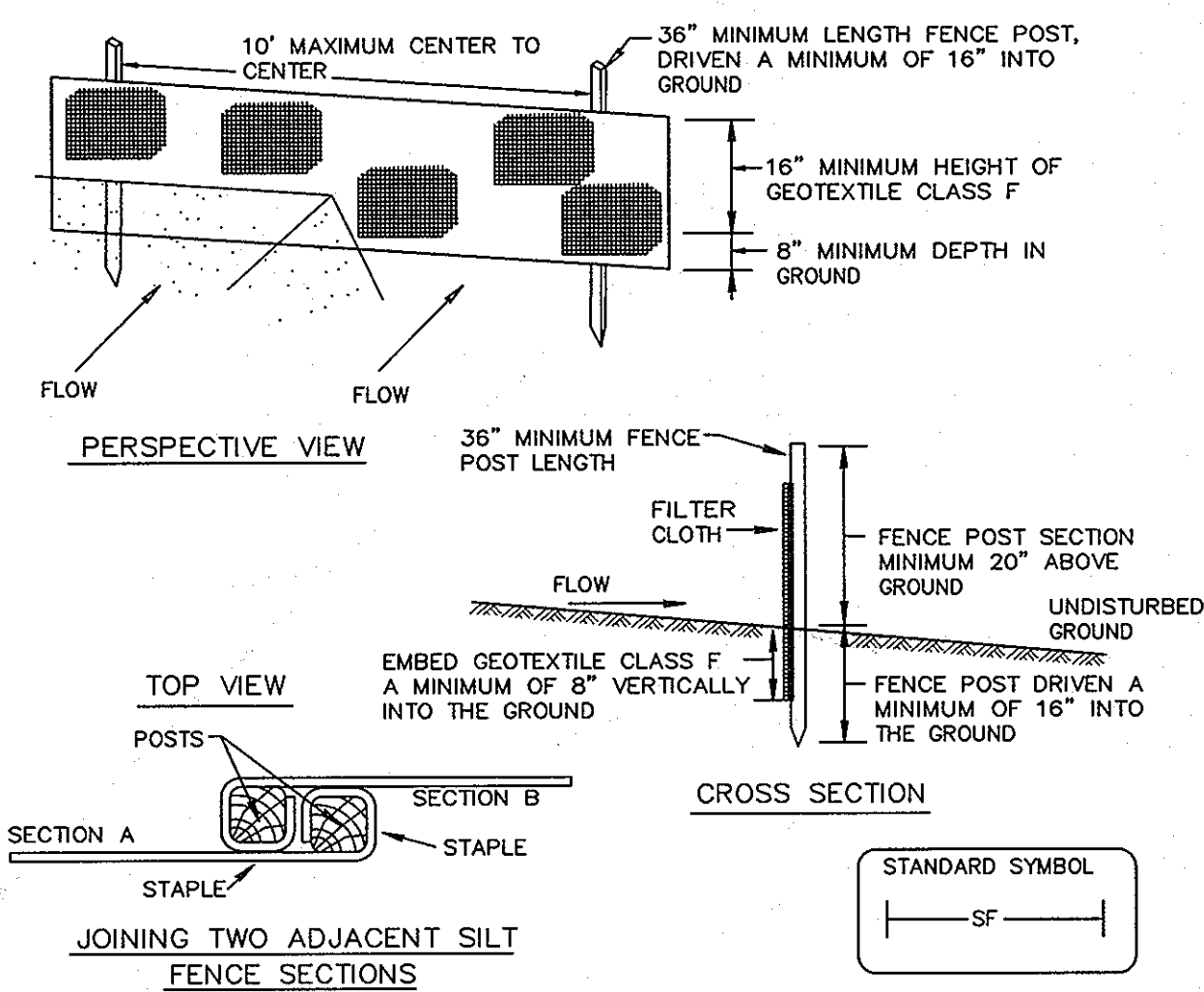
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DETAIL 30 - EROSION CONTROL MATTING

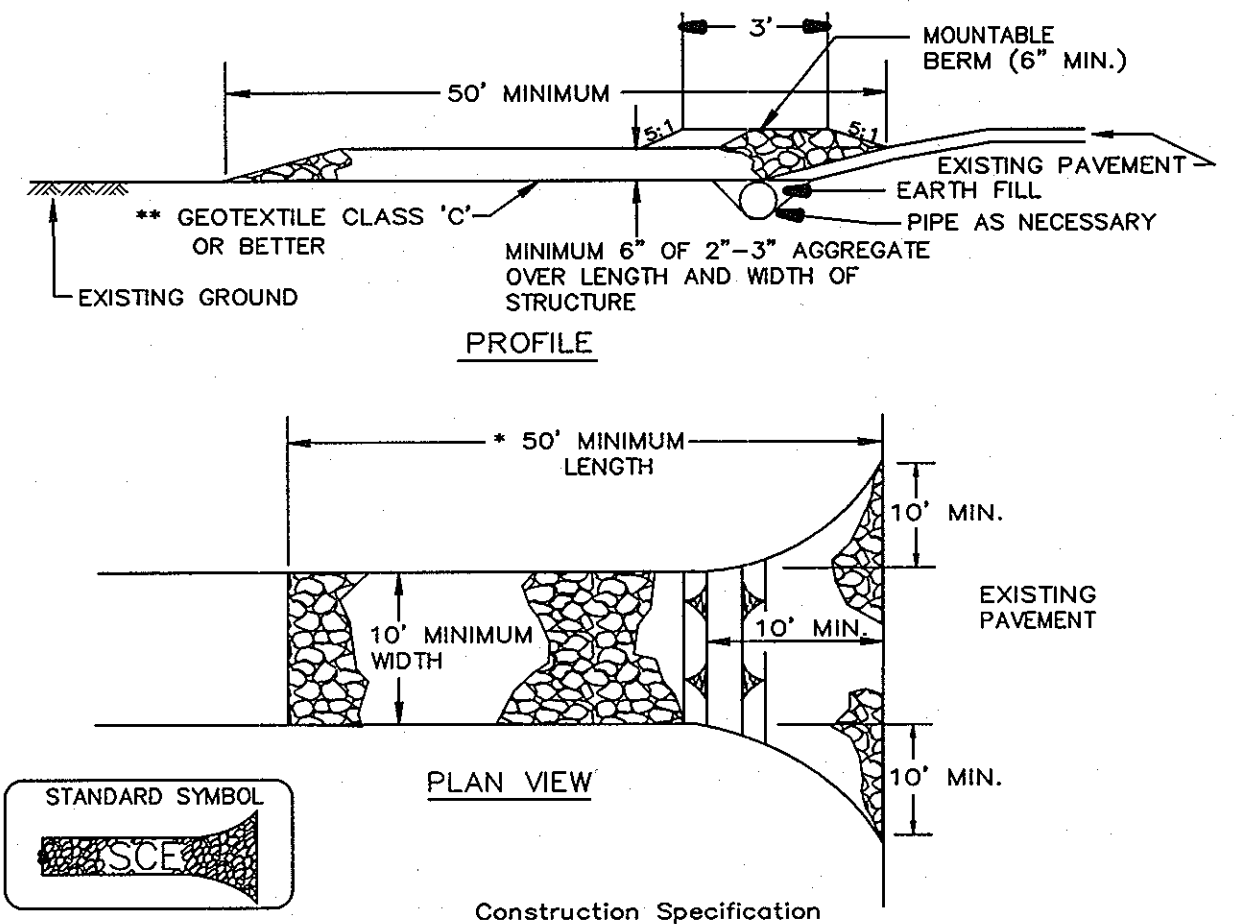


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 6-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

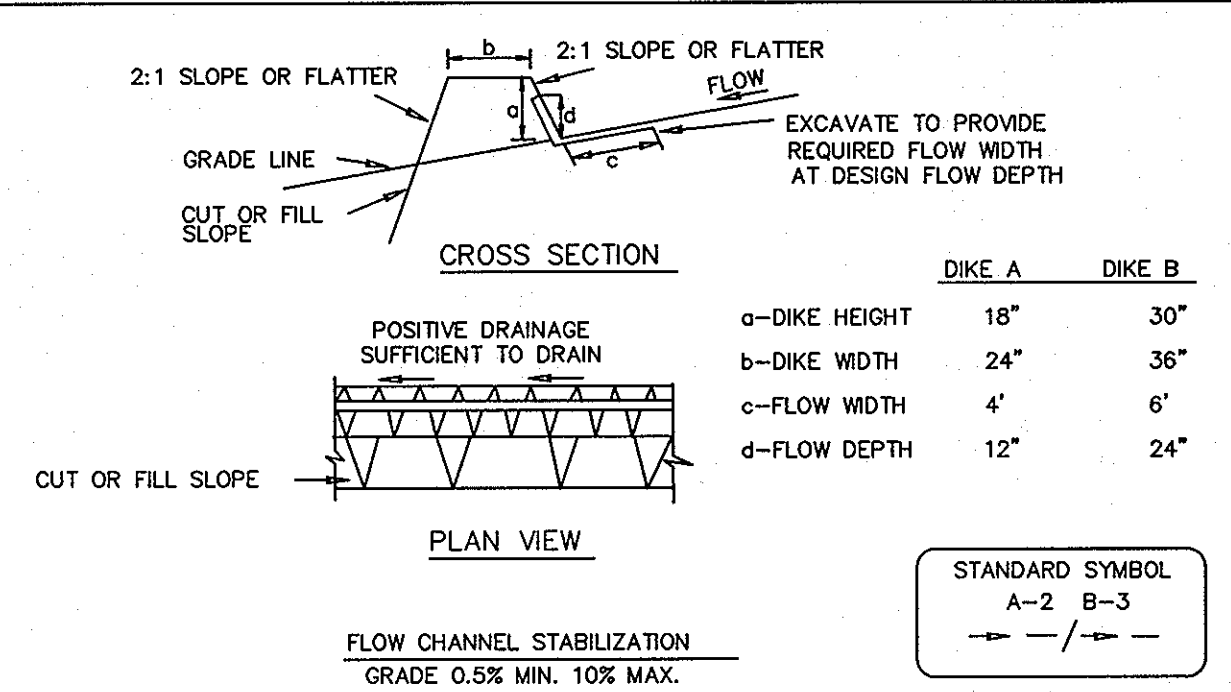
DETAIL 22 - SILT FENCE



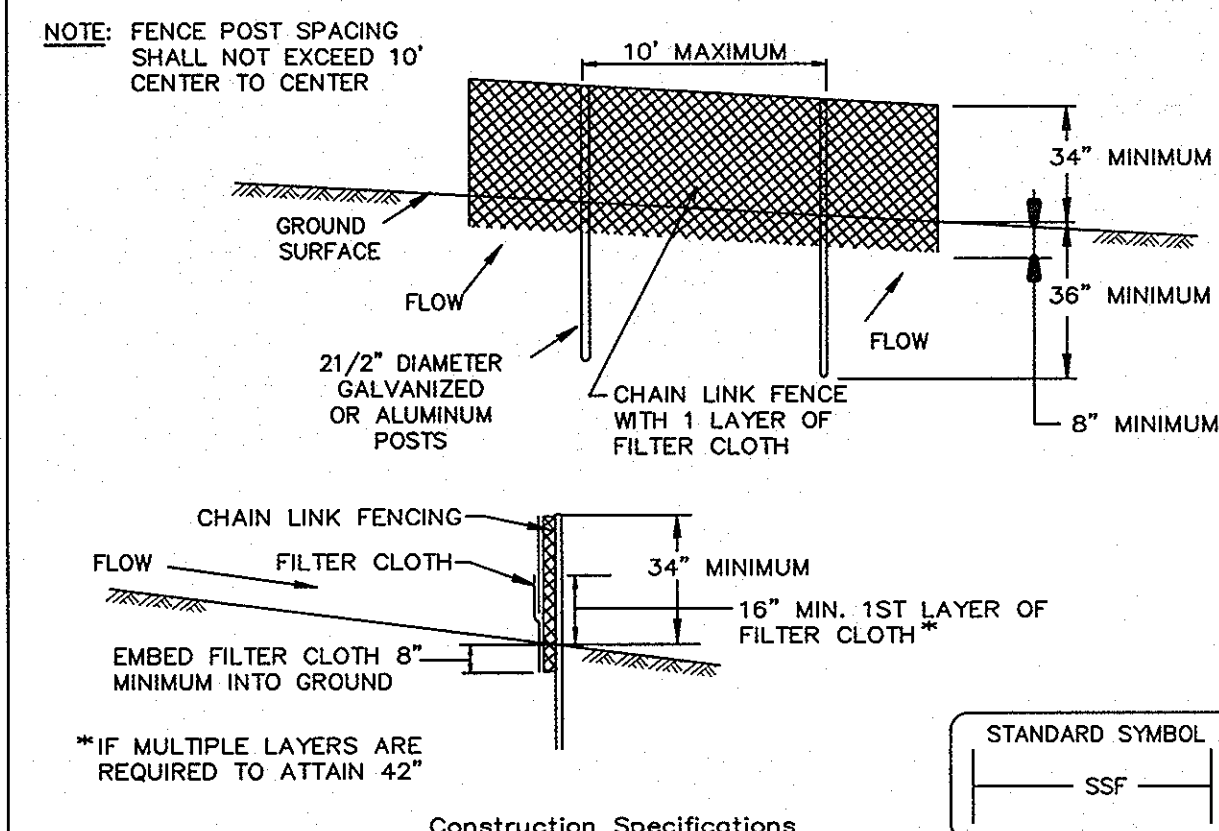
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



DETAIL 1 - EARTH DIKE



DETAIL 33 - SUPER SILT FENCE



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 Chief, Bureau of Highways: *[Signature]* Date: 9-15-08

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Chief, Division of Land Development: *[Signature]* Date: 9/18/08
 Chief, Development Engineering Division: *[Signature]* Date: 9/18/08

Signature: *[Signature]* Date: 9/18/08
 Howard S.C.D.

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 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. 12275
 EXPIRATION DATE: MAY 26, 2010



SEDIMENT CONTROL DETAILS AND NOTES

MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE	ZONING	G. L. W. FILE No.
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DATE	REVISION	BY	APPR.

Sequence of Construction

1. Obtain grading permit and arrange for an on-site pre-construction meeting with the sediment control inspector. (1 day)
2. Install the stabilized construction entrances, silt fence, and super silt fence as shown on these plans. The clean water diversions may be installed at this time. All sediment control devices shall be inspected and repaired at the end of each working day. Note: If the cleanwater diversion along the FEP/CO R/W constructed under F 05-01 has not been removed, the contractor may inspect and make the necessary repairs to continue using the sediment control device. (2 weeks)
3. With permission from the sediment control inspector, begin rough grading. The contractor must implement dust control measures as outlined on this sheet. (2 weeks)
4. Install the storm drains per F 08-T2 and the water and sewer per Cont. #24-4430-D. Note: The sediment control devices (especially the cleanwater diversion above the retaining wall) must be inspected daily and any damage to the devices must be repaired at the end of each working day. (1 month)
5. Install curb and gutter, sidewalks and base paving. (2 months)
6. Fine grade site and stabilize disturbed areas in accordance with the specifications for topsoil and permanent seeding. (1 month)
7. Remove sediment control devices and stabilize any disturbed areas immediately. (1 week)
8. Install surface course. (1 month)

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 331-1880
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:

Total Area of Site	: 15.05 Acres
Area Disturbed	: 8.54 Acres
Area to be roofed or paved	: 2.87 Acres
Area to be vegetatively stabilized	: 5.12 Acres
Total Cut	: 5,000 Cu. Yds.
Total Fill	: 5,000 Cu. Yds.
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within one working day whichever is shorter.

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (4 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 40 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (10 to 40 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

PURPOSE

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

CONDITIONS WHERE PRACTICE APPLIES

1. This practice is limited to areas having 2:1 or flatter slopes where:
 - a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplied of moisture and plant nutrients.
 - c. The original soil to be vegetated contains material toxic to plant growth.
 - d. The soil is so acidic that treatment with limestone is not feasible.
2. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the respective soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
1. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
2. Topsoil must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
3. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
 1. For sites having disturbed areas under 5 acres:
 1. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 2. For sites having disturbed areas over 5 acres:
 1. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
 - c. Topsoil having soluble salt greater than 500 parts per mill shall not be used.
 - d. No sod or seed shall be placed on soil which has been with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of photo-toxic materials.
- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
2. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
3. Topsoil Application
 1. When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
 2. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
 3. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water.
 4. Topsoil shall not be placed while the topsoil or subsoil is frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

- VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 1. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - b. Composted sludge shall contain at least 1 percent nitrogen, 15 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 4. Composted sludge shall be amended with a potassium fertilizer applied at a rate of 4lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1975.

DUST CONTROL

Definition
Controlling dust blowing and movement on construction sites and roads.

Purpose
To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movements where on and off-site damage is likely without treatment.

SPECIFICATIONS

- Temporary Methods**
1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
 2. Vegetative Cover - See standards for temporary vegetative cover.
 3. Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12' apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
 4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
 5. Barriers - Solid board fences, silt fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
 6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods

1. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.
3. Stone - Cover surface with crushed stone or coarse gravel.

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[Signature]
Signature of Developer/Builder

8/28/08
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Signature of Engineer

8/26/08
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[Signature]
Howard S.C.D.

9/14/08
Date

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[Signature]
Chief, Bureau of Highways

9-15-08
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9/15/08
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9/15/08
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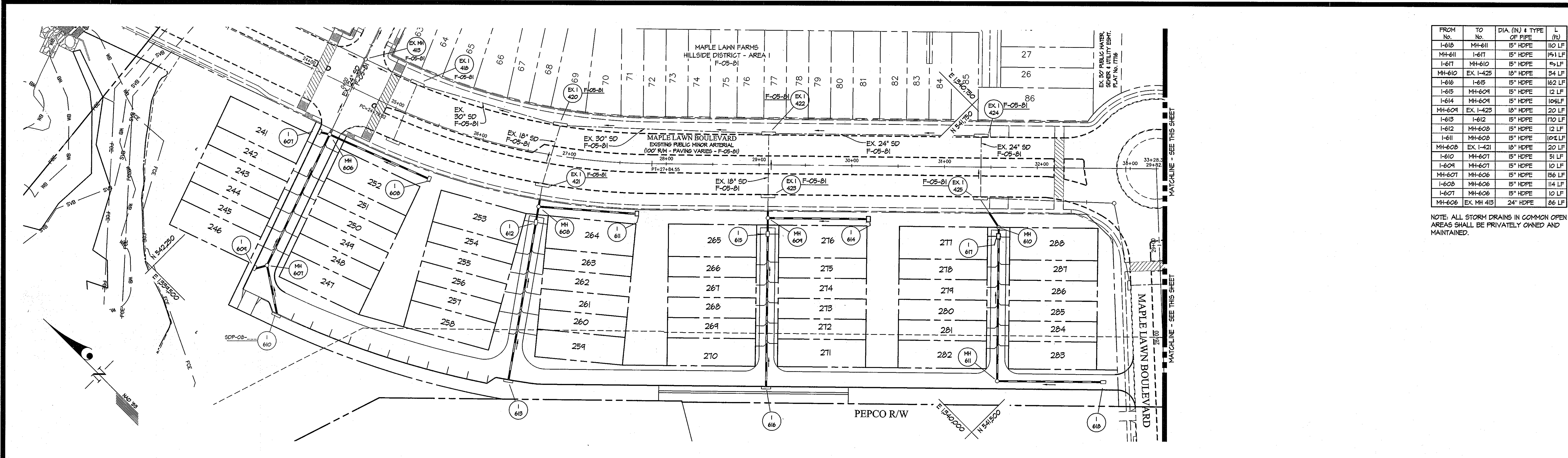
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AS SHOWN	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	10 OF 19

L:\CADD\DRAWINGS\04001\06001\FINALS\06001SC10.dwg	DES. DEV	DRN. AML	CHK. DEV	DATE	REVISION	BY	APPR.
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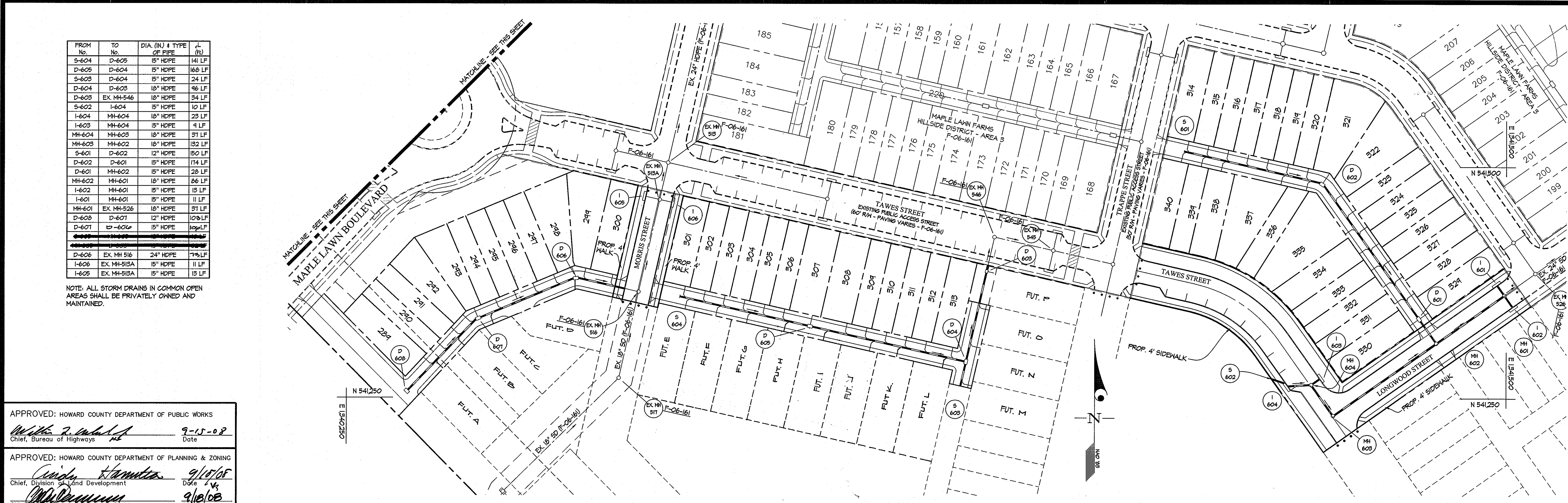
ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND



FROM No.	TO No.	DIA. (IN) & TYPE	L (ft)
I-618	MH-611	15" HDPE	110 LF
MH-611	I-617	15" HDPE	151 LF
I-617	MH-610	15" HDPE	75 LF
MH-610	EX. I-425	15" HDPE	34 LF
I-616	I-615	15" HDPE	162 LF
I-615	MH-609	15" HDPE	12 LF
I-614	MH-609	15" HDPE	106 LF
MH-609	EX. I-423	15" HDPE	20 LF
I-613	I-612	15" HDPE	170 LF
I-612	MH-608	15" HDPE	12 LF
I-611	MH-608	15" HDPE	104 LF
MH-608	EX. I-421	15" HDPE	20 LF
I-610	MH-607	15" HDPE	51 LF
I-609	MH-607	15" HDPE	10 LF
MH-607	MH-606	15" HDPE	156 LF
I-608	MH-606	15" HDPE	114 LF
I-607	MH-606	15" HDPE	10 LF
MH-606	EX. MH 413	24" HDPE	26 LF

NOTE: ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.



FROM No.	TO No.	DIA. (IN) & TYPE	L (ft)
S-604	D-605	15" HDPE	141 LF
D-605	D-604	15" HDPE	160 LF
S-603	D-604	15" HDPE	24 LF
D-604	D-603	15" HDPE	46 LF
D-603	EX. MH-546	15" HDPE	34 LF
S-602	I-604	15" HDPE	10 LF
I-604	MH-604	15" HDPE	23 LF
I-603	MH-604	15" HDPE	9 LF
MH-604	MH-603	15" HDPE	37 LF
MH-603	MH-602	15" HDPE	132 LF
S-601	D-602	12" HDPE	150 LF
D-602	D-601	15" HDPE	174 LF
D-601	MH-602	15" HDPE	28 LF
MH-602	MH-601	15" HDPE	86 LF
I-602	MH-601	15" HDPE	15 LF
I-601	MH-601	15" HDPE	11 LF
MH-601	EX. MH-526	15" HDPE	37 LF
D-608	D-607	12" HDPE	109 LF
D-607	D-606	15" HDPE	109 LF
D-606	MH-519	15" HDPE	15 LF
D-606	EX. MH 516	24" HDPE	75 LF
I-606	EX. MH-519A	15" HDPE	11 LF
I-605	EX. MH-519A	15" HDPE	13 LF

NOTE: ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Highways
 Date: 9-15-08

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Chief, Division of Land Development
 Date: 9/10/08

Chief, Development Engineering Division
 Date: 9/18/08

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3509 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.
12-7-07	Rel. Storm Drain For Future Lots & Removed MH-603 & CB-603	WJL	

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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
 EXPIRATION DATE: MAY 28, 2010

STORM DRAIN INFORMATION PLAN

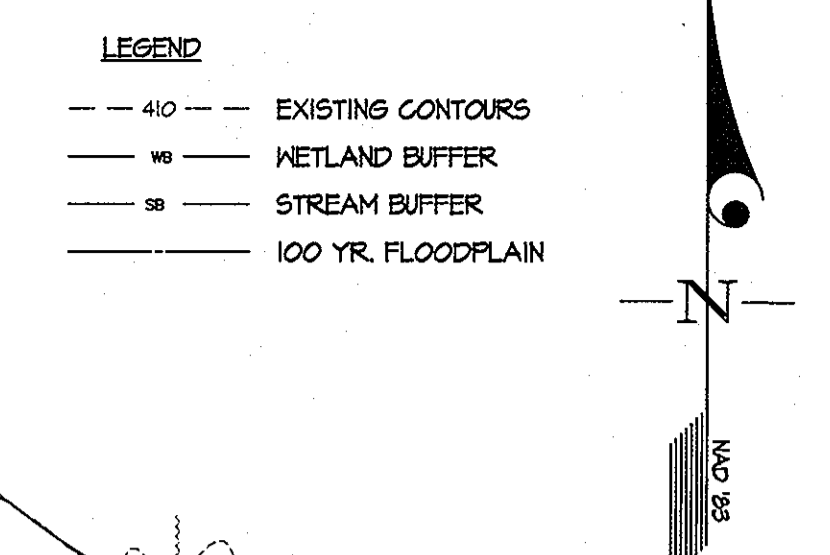
MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE: 1"=50'
 ZONING: MXD-3
 G. L. W. FILE No.: 06001

DATE: AUG., 2008
 TAX MAP - GRID: 41-21&22
 SHEET: 11 OF 19

ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

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 U:\CADD\DRAWINGS\04001\06001\FINALS\06001SD11.dwg DES. TML DRN. AML CHK. DEV



DRAINAGE AREA INFORMATION			
INLET	AREA	C' VALUE	% IMP.
I-601	0.15 Ac.	0.11	75%
I-602	0.14 Ac.	0.11	75%
I-603	0.48 Ac.	0.11	75%
I-604	0.24 Ac.	0.11	75%
I-605	0.45 Ac.	0.11	75%
I-606	0.31 Ac.	0.11	75%
I-607	0.23 Ac.	0.11	75%
I-608	0.46 Ac.	0.11	75%
I-609	0.25 Ac.	0.11	75%
I-610	0.36 Ac.	0.11	75%
I-611	0.48 Ac.	0.11	75%
I-612	0.40 Ac.	0.11	75%
I-613	0.32 Ac.	0.11	75%
I-614	0.46 Ac.	0.11	75%
I-615	0.38 Ac.	0.11	75%
I-616	0.53 Ac.	0.11	75%
I-617	0.34 Ac.	0.11	75%
I-618	0.30 Ac.	0.11	75%
D-601	0.52 Ac.	0.11	75%
D-602	0.50 Ac.	0.11	75%
D-603	0.16 Ac.	0.11	75%
D-604	0.10 Ac.	0.11	75%
D-605	0.43 Ac.	0.11	75%
D-606	0.35 Ac.	0.11	75%
D-607	0.34 Ac.	0.11	75%
D-608	0.19 Ac.	0.11	75%
S-601	0.40 Ac.	0.11	75%
S-602	0.22 Ac.	0.11	75%
S-603	0.41 Ac.	0.11	75%
S-604	0.34 Ac.	0.11	75%

FLOODPLAIN ELEVATIONS	
CROSS SECTION	ELEVATION
31+80	314.8
40+00	314.8
43+00	314.8
45+10	314.8
48+00	315.1
51+00	315.4

AREA TO BE PICKED UP BY YARD DRAINS
 Note: S-602 has been intentionally omitted
 NOTE: ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Michael J. Adams 9-15-08
 Chief, Bureau of Highways MS Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cynthia Kama 9/15/08
 Chief, Division of Land Development Date

Michael J. Adams 9/15/08
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3809 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

DATE	REVISION	BY	APPR.
12-7-07	Removed Proposed Areas 01-002 & 01-003		

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

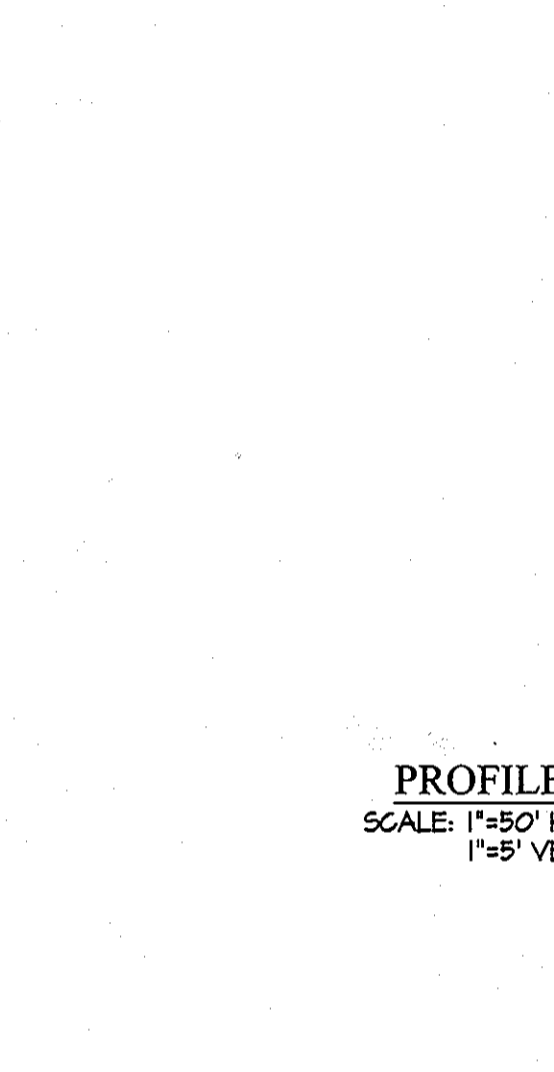
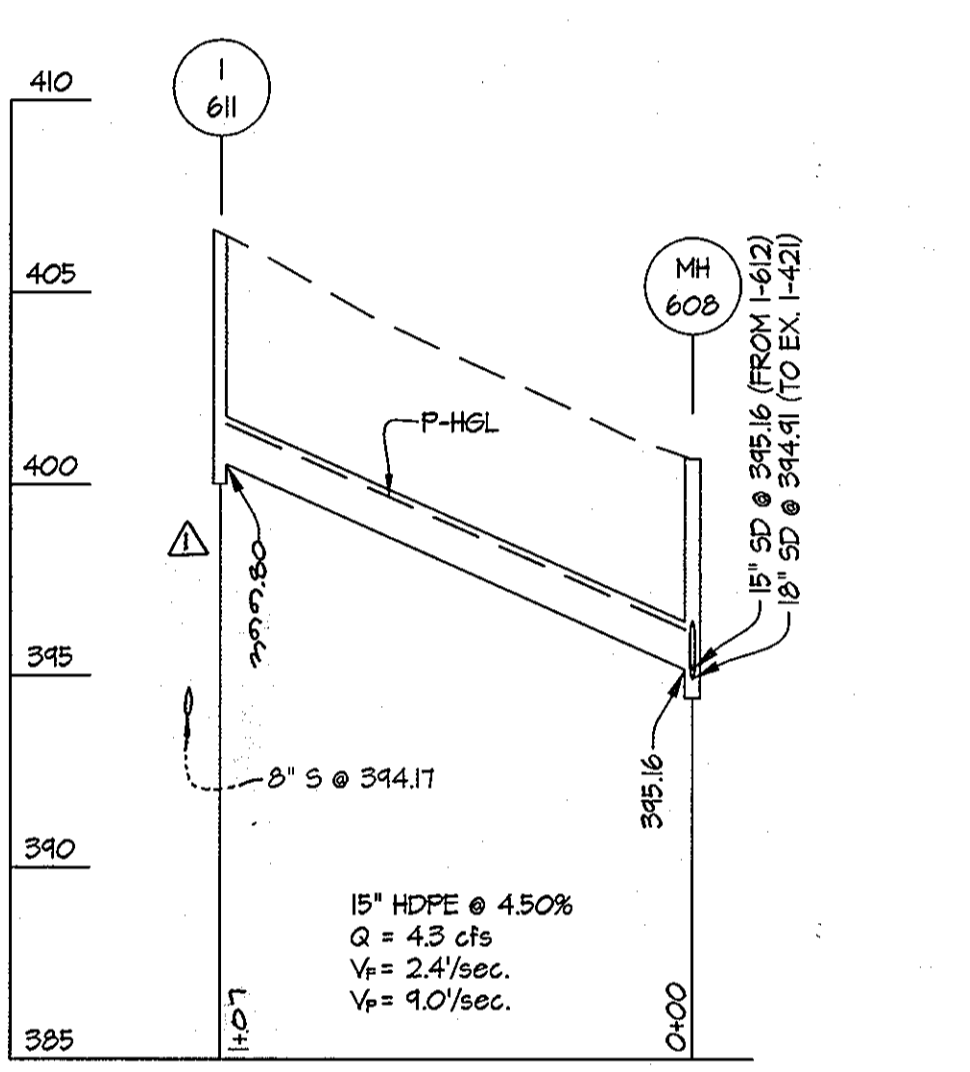
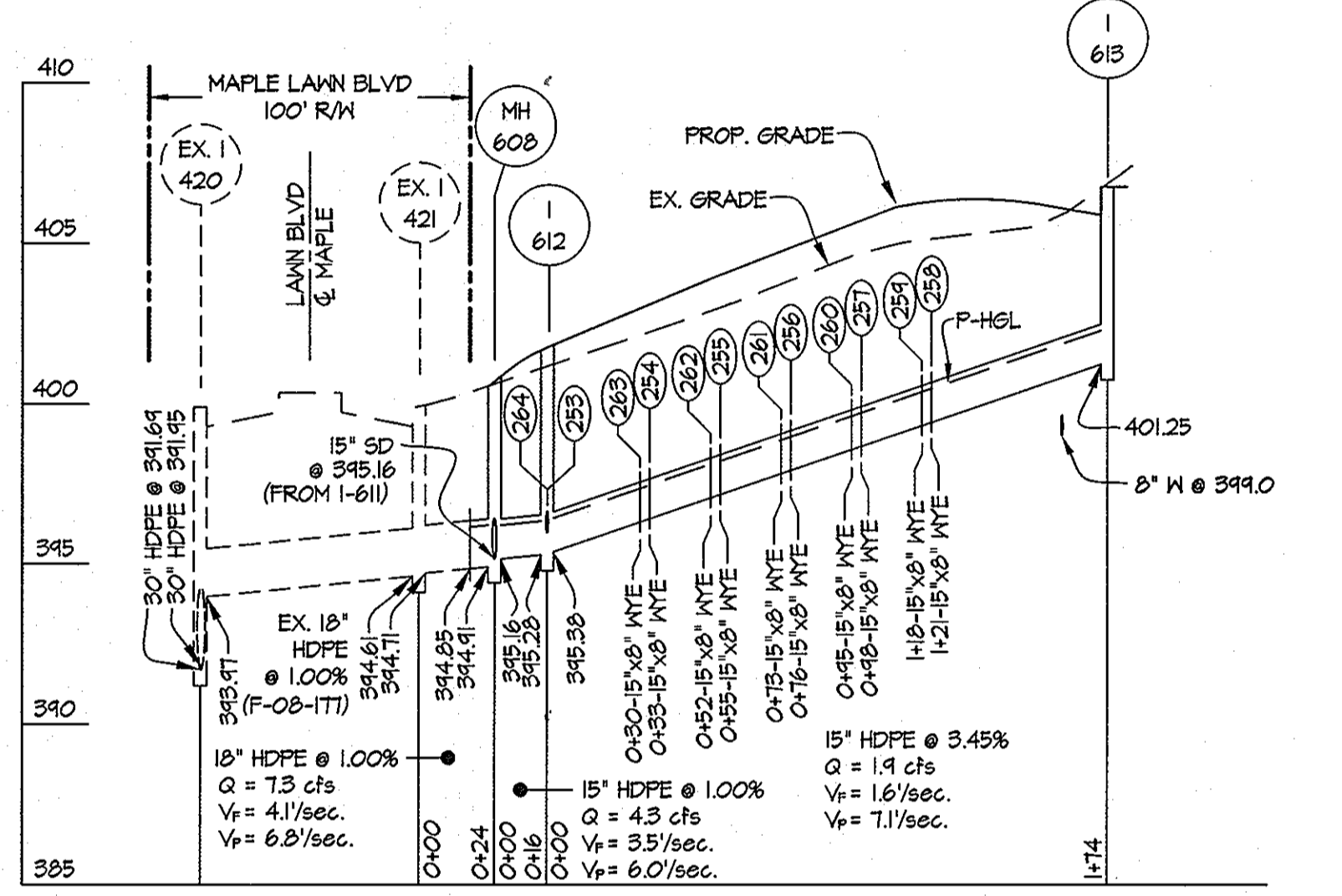
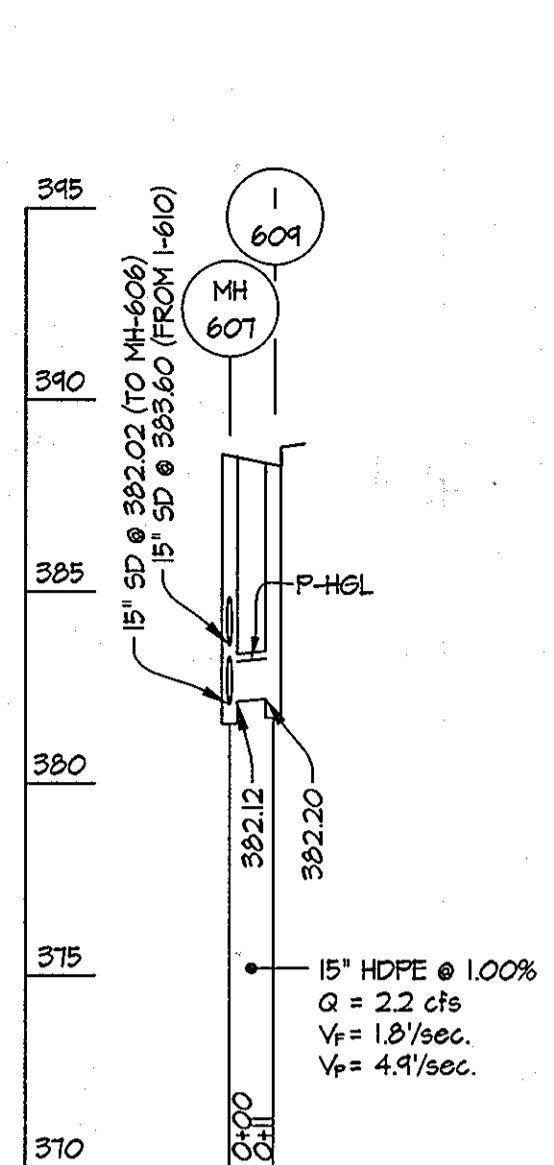
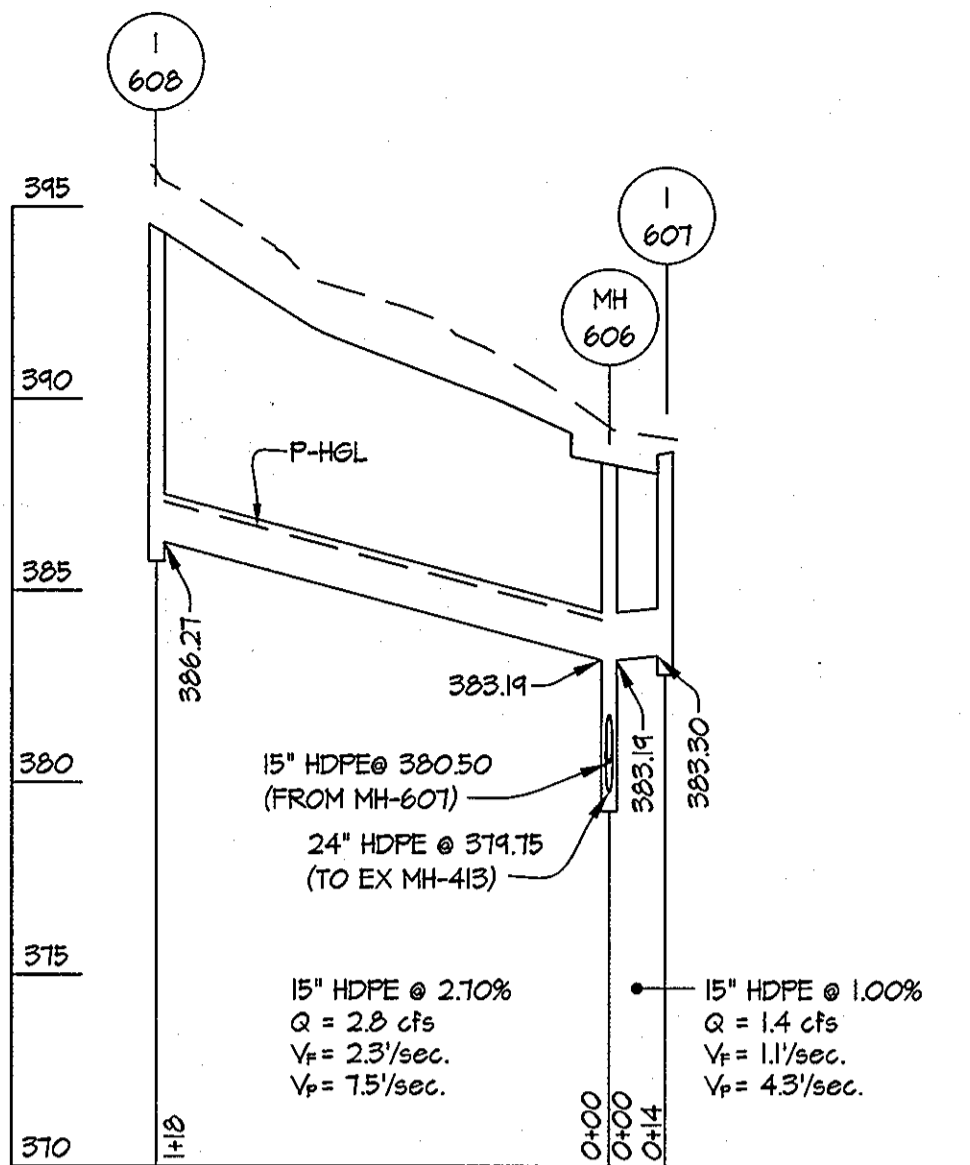
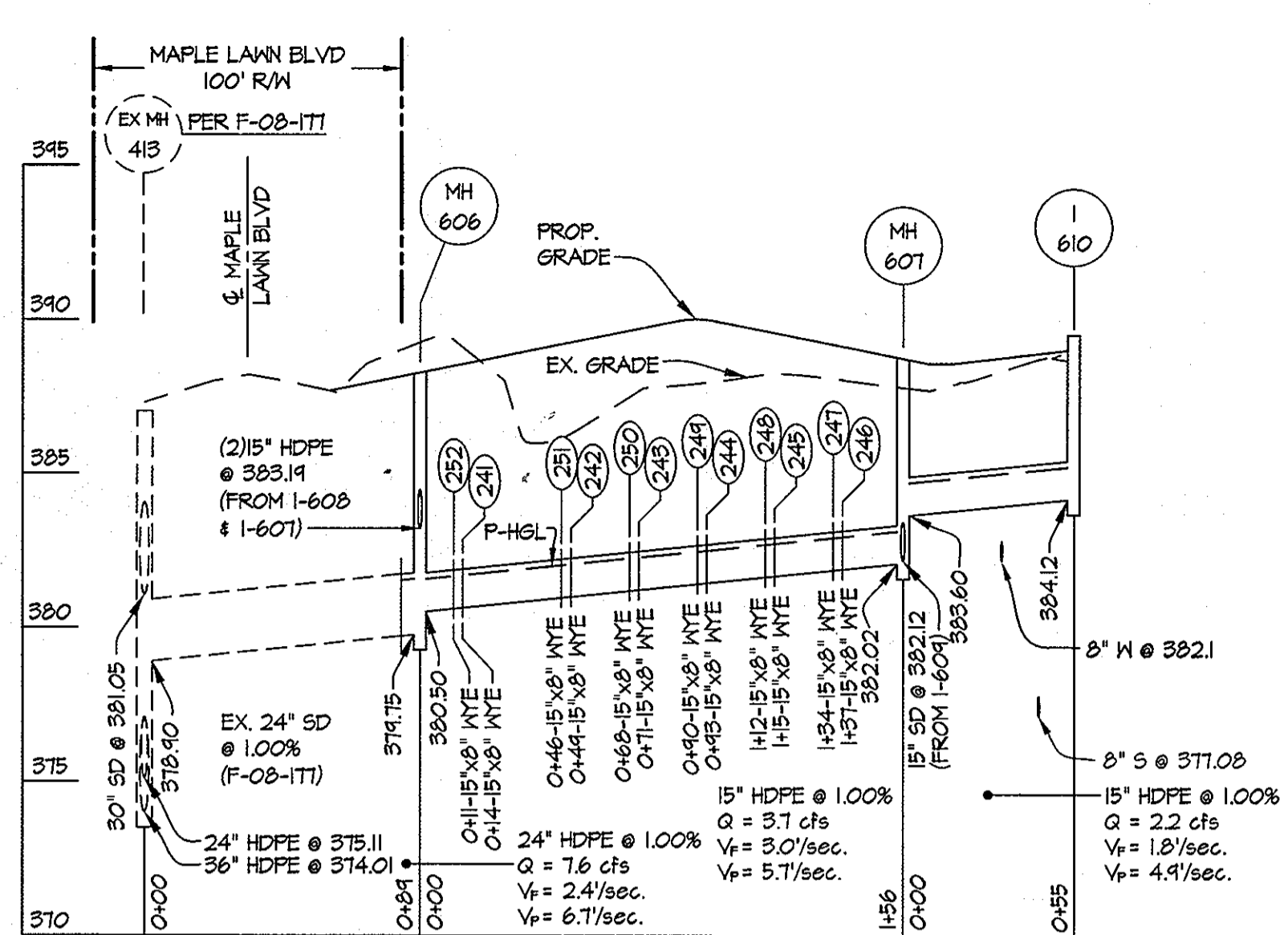
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12275
 EXPIRATION DATE: MAY 26, 2010

STORM DRAIN DRAINAGE AREA MAP
MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG, 2008	41-21&22	12 OF 19

L:\CADD\DRAWINGS\04001\06001\FINALS\06001SD12.dwg PLOTTED: 8/25/2008 11:01 AM, LAST SAVED: 8/25/2008 11:00 AM, PLOTTED BY: Kristy Pierce



NO	TYPE	WIDTH (INSIDE)	TOP ELEVATION				INVERT				STD. DETAIL	LOCATIONS	REMARKS
			PROPOSED		AS-BUILT		PROPOSED		AS-BUILT				
			UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER			
I-607	DOUBLE 8' INLET	2'-11/2"	388.66	388.50			383.30			HO. CO. D-4.23	N 542,227 E 1,339,131		
I-608	DOUBLE 8' INLET	2'-11/2"		394.43			386.27			HO. CO. D-4.23	N 542,071 E 1,339,174		
I-609	DOUBLE 8' INLET	2'-11/2"	388.82	388.12			382.20			HO. CO. D-4.23	N 542,172 E 1,339,578		
I-610	A-10 INLET	3'-0"	389.71	384.36			384.12			HO. CO. D-4.03	N 541,918 E 1,339,560		
△ I-611	DOUBLE 8' INLET	2'-11/2"		403.82			387.80			HO. CO. D-4.23	N 541,918 E 1,339,111		
I-612	DOUBLE 8' INLET	2'-11/2"	401.85	401.68			395.96	395.28		HO. CO. D-4.23	N 541,992 E 1,339,827		
I-613	A-10 INLET	3'-0"	407.39	407.08			401.25			HO. CO. D-4.03	N 541,893 E 1,339,687		
△ I-614	DOUBLE 8' INLET	2'-11/2"		415.00			409.07			HO. CO. D-4.23	N 541,741 E 1,340,084		
I-615	DOUBLE 8' INLET	2'-11/2"	412.45	412.10			406.19	405.51		HO. CO. D-4.23	N 541,807 E 1,339,995		
I-616	A-10 INLET	3'-0"	421.84	421.58			416.38			HO. CO. D-4.03	N 541,692 E 1,339,878		
△ I-617	DOUBLE 8' INLET	2'-11/2"		420.90			414.75	414.63		HO. CO. D-4.23	N 541,629 E 1,340,170		
I-618	DOUBLE 8' INLET	2'-11/2"	425.67	425.59			423.43			HO. CO. D-4.23	N 541,438 E 1,340,138		
MH-606	STANDARD MANHOLE	4'-0"		388.25			383.19	379.75		HO. CO. G-5.12	N 542,216 E 1,339,131		
MH-607	STANDARD MANHOLE	4'-0"		388.54			383.60	382.02		HO. CO. G-5.12	N 542,164 E 1,339,589		
MH-608	STANDARD MANHOLE	4'-0"		400.71			395.16	394.91		HO. CO. G-5.12	N 542,002 E 1,339,841		
MH-609	STANDARD MANHOLE	4'-0"		411.76			405.39	405.14		HO. CO. G-5.12	N 541,819 E 1,340,008		
MH-610	STANDARD MANHOLE	4'-0"		419.47			414.44	411.94		HO. CO. G-5.12	N 541,636 E 1,340,177		
MH-611	STANDARD MANHOLE	4'-0"		429.40			422.33	422.23		HO. CO. G-5.12	N 541,520 E 1,340,058		

1. COORDINATE POINT GIVEN IS TO THE CENTERLINE OF STRUCTURE AT THE FACE OF CURB FOR INLETS AND TO THE CENTERLINE OF STRUCTURE FOR MANHOLES AND END SECTIONS.
 2. NYLOPLAST - ADS END SECTION OR APPROVED EQUAL.

NOTES:
 1. ALL WATER AND SEWER CROSSINGS SHOWN ARE PER CONTRACT, 24-430 D
 2. ALL STORM DRAINS IN COMMON OPEN AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED.

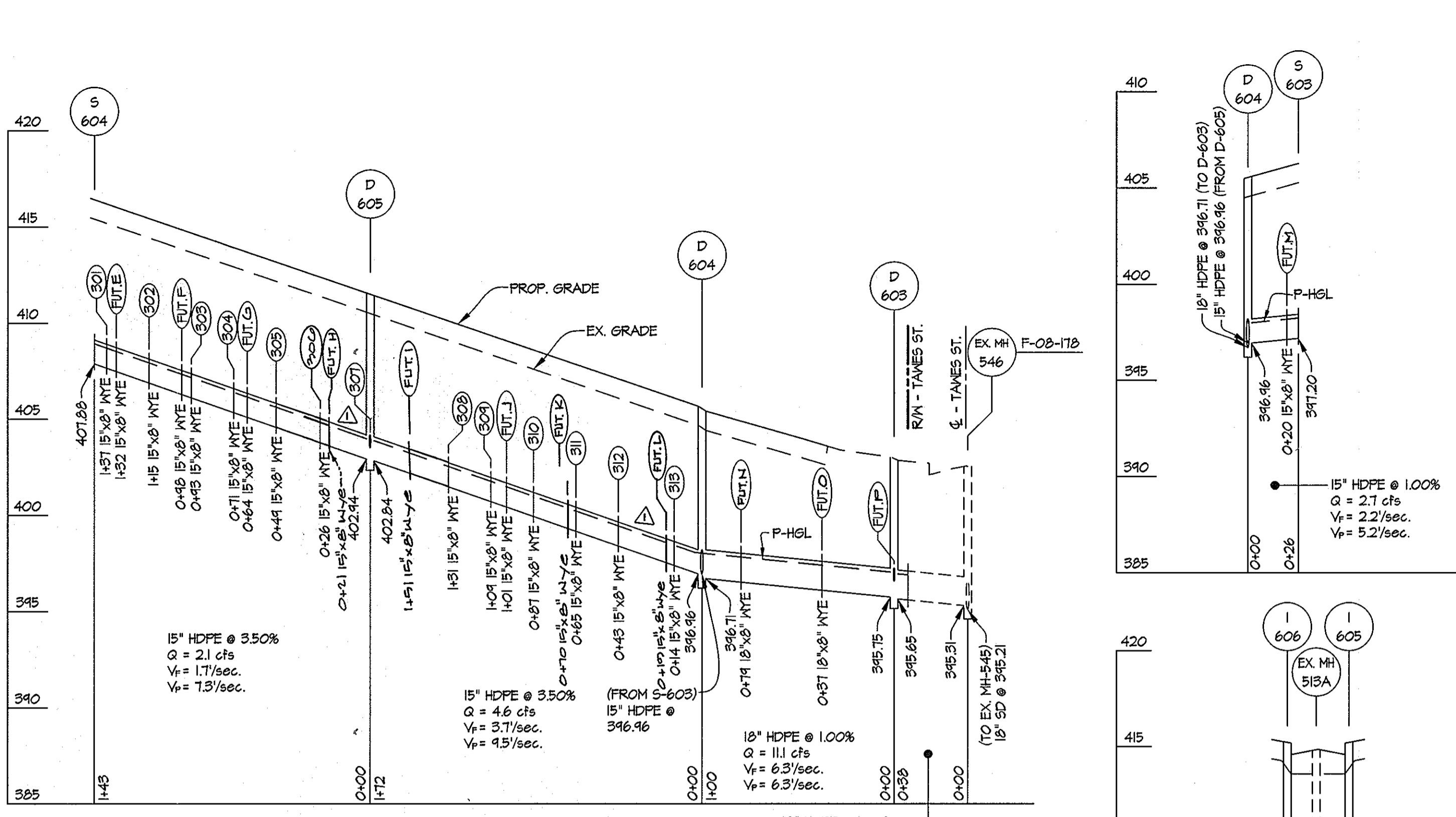
SIZE	TYPE	QUANTITY (LF)	REMARKS
15"	HDPE	1,278	
18"	HDPE	50	
24"	HDPE	10	

HDPE Indicates High Density Polyethylene pipe, such as H-12 by ADS, or H-Q by Hancor or an approved equal.
 Trench bedding to be provided per Howard County Detail G 2.01, "Trench for P.V.C. pipe and HDPE."

Note: Plan Distances shall Supercede Profile Distances if There is a Discrepancy.

PROFILES
 SCALE: 1"=50' HORIZ.
 1"=5' VERT.

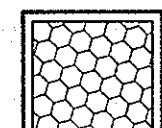



LOT NO.	INV. OF MAIN LINE	INV. 8" HDPE @ MAIN	INV. 8" HDPE @ PROP. LINE
(24)	380.64	380.93	381.15
(24)	380.99	381.28	381.48
(24)	381.21	381.50	381.70
(24)	381.43	381.72	381.92
(24)	381.65	381.94	382.14
(24)	381.87	382.16	382.36
(24)	382.09	382.38	382.58
(24)	382.31	382.60	382.80
(24)	382.53	382.82	383.02
(24)	382.75	383.04	383.24
(24)	382.97	383.26	383.46
(24)	383.19	383.48	383.68
(24)	383.41	383.70	383.90
(24)	383.63	383.92	384.12
(24)	383.85	384.14	384.34
(24)	384.07	384.36	384.56
(24)	384.29	384.58	384.78
(24)	384.51	384.80	385.00
(24)	384.73	385.02	385.22
(24)	384.95	385.24	385.44
(24)	385.17	385.46	385.66
(24)	385.39	385.68	385.88
(24)	385.61	385.90	386.10
(24)	385.83	386.12	386.32
(24)	386.05	386.34	386.54
(24)	386.27	386.56	386.76
(24)	386.49	386.78	386.98
(24)	386.71	387.00	387.20
(24)	386.93	387.22	387.42
(24)	387.15	387.44	387.64
(24)	387.37	387.66	387.86
(24)	387.59	387.88	388.08
(24)	387.81	388.10	388.30
(24)	388.03	388.32	388.52
(24)	388.25	388.54	388.74
(24)	388.47	388.76	388.96
(24)	388.69	388.98	389.18
(24)	388.91	389.20	389.40
(24)	389.13	389.42	389.62
(24)	389.35	389.64	389.84
(24)	389.57	389.86	390.06
(24)	389.79	390.08	390.28
(24)	390.01	390.30	390.50
(24)	390.23	390.52	390.72
(24)	390.45	390.74	390.94
(24)	390.67	390.96	391.16
(24)	390.89	391.18	391.38
(24)	391.11	391.40	391.60
(24)	391.33	391.62	391.82
(24)	391.55	391.84	392.04
(24)	391.77	392.06	392.26
(24)	391.99	392.28	392.48
(24)	392.21	392.50	392.70
(24)	392.43	392.72	392.92
(24)	392.65	392.94	393.14
(24)	392.87	393.16	393.36
(24)	393.09	393.38	393.58
(24)	393.31	393.60	393.80
(24)	393.53	393.82	394.02
(24)	393.75	394.04	394.24
(24)	393.97	394.26	394.46
(24)	394.19	394.48	394.68
(24)	394.41	394.70	394.90
(24)	394.63	394.92	395.12
(24)	394.85	395.14	395.34
(24)	395.07	395.36	395.56
(24)	395.29	395.58	395.78
(24)	395.51	395.80	396.00
(24)	395.73	396.02	396.22
(24)	395.95	396.24	396.44
(24)	396.17	396.46	396.66
(24)	396.39	396.68	396.88
(24)	396.61	396.90	397.10
(24)	396.83	397.12	397.32
(24)	397.05	397.34	397.54
(24)	397.27	397.56	397.76
(24)	397.49	397.78	397.98
(24)	397.71	398.00	398.20
(24)	397.93	398.22	398.42
(24)	398.15	398.44	398.64
(24)	398.37	398.66	398.86
(24)	398.59	398.88	399.08
(24)	398.81	399.10	399.30
(24)	399.03	399.32	399.52
(24)	399.25	399.54	399.74
(24)	399.47	399.76	399.96
(24)	399.69	399.98	400.18
(24)	399.91	400.20	400.40
(24)	400.13	400.42	400.62
(24)	400.35	400.64	400.84
(24)	400.57	400.86	401.06
(24)	400.79	401.08	401.28
(24)	401.01	401.30	401.50
(24)	401.23	401.52	401.72
(24)	401.45	401.74	401.94
(24)	401.67	401.96	402.16
(24)	401.89	402.18	402.38
(24)	402.11	402.40	402.60
(24)	402.33	402.62	402.82
(24)	402.55	402.84	403.04
(24)	402.77	403.06	403.26
(24)	402.99	403.28	403.48
(24)	403.21	403.50	403.70
(24)	403.43	403.72	403.92
(24)	403.65	403.94	404.14
(24)	403.87	404.16	404.36
(24)	404.09	404.38	404.58
(24)	404.31	404.60	404.80
(24)	404.53	404.82	405.02
(24)	404.75	405.04	405.24
(24)	404.97	405.26	405.46
(24)	405.19	405.48	405.68
(24)	405.41	405.70	405.90
(24)	405.63	405.92	406.12
(24)	405.85	406.14	406.34
(24)	406.07	406.36	406.56
(24)	406.29	406.58	406.78
(24)	406.51	406.80	407.00
(24)	406.73	407.02	407.22
(24)	406.95	407.24	407.44
(24)	407.17	407.46	407.66
(24)	407.39	407.68	407.88
(24)	407.61	407.90	408.10
(24)	407.83	408.12	408.32
(24)	408.05	408.34	408.54
(24)	408.27	408.56	408.76
(24)	408.49	408.78	408.98
(24)	408.71	409.00	409.20
(24)	408.93	409.22	409.42
(24)	409.15	409.44	409.64
(24)	409.37	409.66	409.86
(24)	409.59	409.88	410.08
(24)	409.81	410.10	410.30
(24)	410.03	410.32	410.52
(24)	410.25	410.54	410.74
(24)	410.47	410.76	410.96
(24)	410.69	410.98	411.18
(24)	410.91	411.20	411.40
(24)	411.13	411.42	411.62
(24)	411.35	411.64	411.84
(24)	411.57	411.86	412.06
(24)	411.79	412.08	412.28
(24)	412.01	412.30	412.50
(24)	412.23	412.52	412.72
(24)	412.45	412.74	412.94
(24)	412.67	412.96	413.16
(24)	412.89	413.18	413.38
(24)	413.11	413.40	413.60
(24)	413.33	413.62	413.82
(24)	413.55	413.84	414.04
(24)	413.77	414.06	414.26
(24)	413.99	414.28	414.48
(24)	414.21	414.50	414.70
(24)	414.43	414.72	414.92
(24)	414.65	414.94	415.14
(24)	414.87	415.16	415.36
(24)	415.09	415.38	415.58
(24)	415.31	415.60	415.80
(24)	415.53	415.82	416.02
(24)	415.75	416.04	416.24
(24)	415.97	416.26	416.46
(24)	416.19	416.48	416.68
(24)	416.41	416.70	416.90
(24)	416.63	416.92	417.12
(24)	416.85	417.14	417.34
(24)	417.07	417.36	417.56
(24)	417.29	417.58	417.78
(24)	417.51	417.80	418.00
(24)	417.73	418.02	418.22
(24)	417.95	418.24	418.44
(24)	418.17	418.46	418.66
(24)	418.39	418.68	418.88
(24)	418.61	418.90	419.10
(24)	418.83	419.12	419.32
(24)	419.05	419.34	419.54
(24)	419.27	419.56	419.76
(24)	419.49	419.78	419.98
(24)	419.71	420.00	420.20
(24)	419.93	420.22	420.42
(24)	420.15	420.44	420.64
(24)	420.37	420.66	420.86
(24)	420.59	420.88	421.08
(24)	420.81	421.10	421.30
(24)	421.03	421.32	421.52
(24)	421.25	421.54	421.74
(24)	421.47	421.76	421.96
(24)	421.69	421.98	422.18
(24)	421		


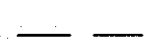


YARD DRAIN SCHEDULE			
LOT NO.	INV. OF MAIN LINE	INV. 8" HDPE @ MAIN	INV. 8" HDPE @ PROP. LINE
224	414.95	415.12	415.25
225	414.72	414.87	415.02
226	414.47	414.62	414.77
227	414.22	414.37	414.52
228	413.97	414.12	414.27
229	413.72	413.87	414.02
230	413.47	413.62	413.77
231	413.22	413.37	413.52
232	412.97	413.12	413.27
233	412.72	412.87	413.02
234	412.47	412.62	412.77
235	412.22	412.37	412.52
236	411.97	412.12	412.27
237	411.72	411.87	412.02
238	411.47	411.62	411.77
239	411.22	411.37	411.52
240	410.97	411.12	411.27
241	410.72	410.87	411.02
242	410.47	410.62	410.77
243	410.22	410.37	410.52
244	410.00	410.15	410.30
245	409.75	409.90	410.05
246	409.50	409.65	409.80
247	409.25	409.40	409.55
248	409.00	409.15	409.30
249	408.75	408.90	409.05
250	408.50	408.65	408.80
251	408.25	408.40	408.55
252	408.00	408.15	408.30
253	407.75	407.90	408.05
254	407.50	407.65	407.80
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257	406.75	406.90	407.05
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260	406.00	406.15	406.30
261	405.75	405.90	406.05
262	405.50	405.65	405.80
263	405.25	405.40	405.55
264	405.00	405.15	405.30
265	404.75	404.90	405.05
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270	403.50	403.65	403.80
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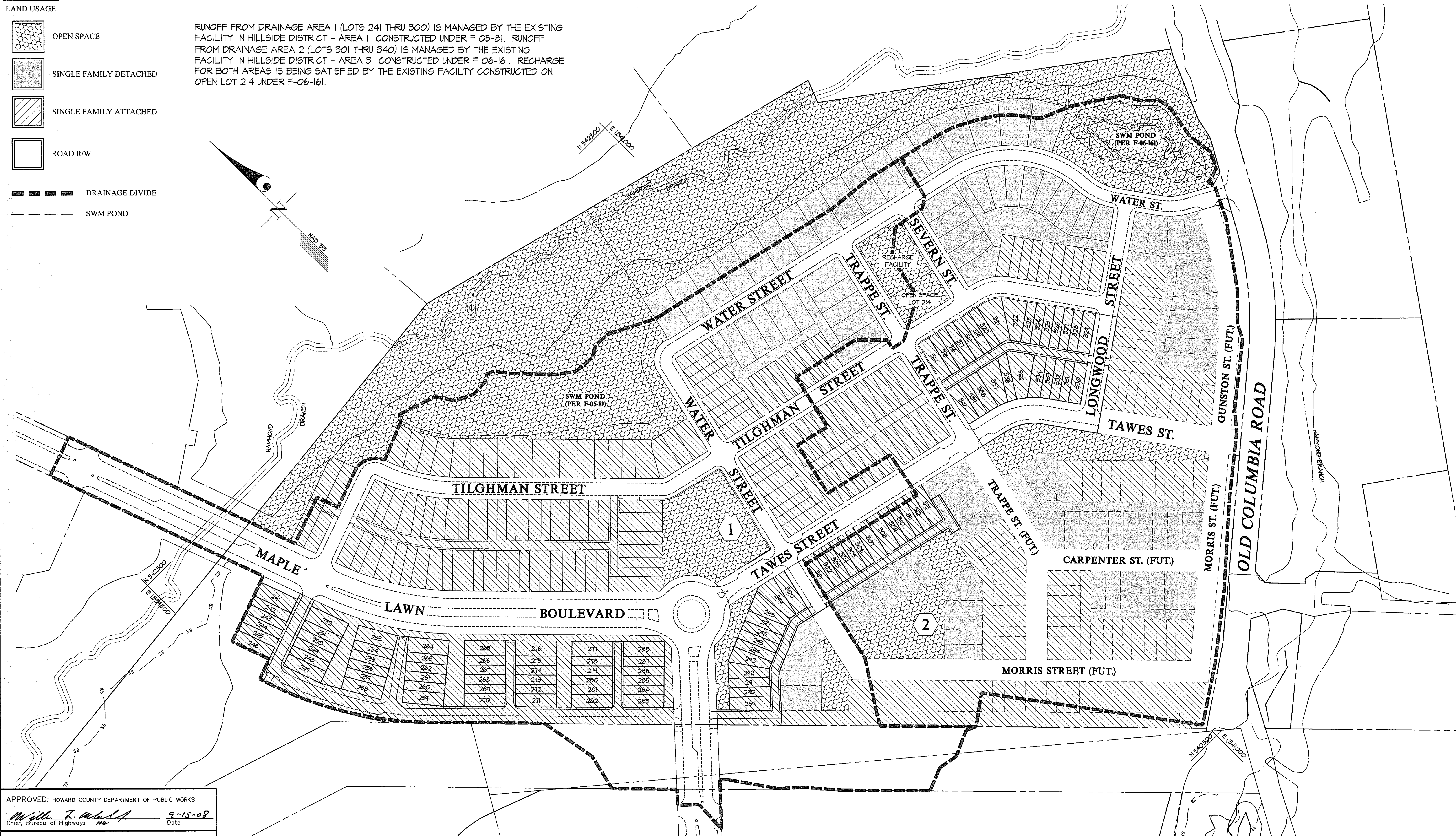
LEGEND

LAND USAGE

-  OPEN SPACE
-  SINGLE FAMILY DETACHED
-  SINGLE FAMILY ATTACHED
-  ROAD R/W

-  DRAINAGE DIVIDE
-  SWM POND

RUNOFF FROM DRAINAGE AREA 1 (LOTS 241 THRU 300) IS MANAGED BY THE EXISTING FACILITY IN HILLSIDE DISTRICT - AREA 1 CONSTRUCTED UNDER F 05-81. RUNOFF FROM DRAINAGE AREA 2 (LOTS 301 THRU 340) IS MANAGED BY THE EXISTING FACILITY IN HILLSIDE DISTRICT - AREA 3 CONSTRUCTED UNDER F 06-161. RECHARGE FOR BOTH AREAS IS BEING SATISFIED BY THE EXISTING FACILITY CONSTRUCTED ON OPEN LOT 214 UNDER F-06-161.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William F. ... 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cinda ... 9/15/08
 Chief, Division of Land Development Date
... 9/16/08
 Chief, Development Engineering Division Date

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: 301-589-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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. 12275
 EXPIRATION DATE: MAY 26, 2010



THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THAT THE DRAINAGE DIVIDES ESTABLISHED DURING THE DESIGN OF THE FACILITIES CONSTRUCTED UNDER F 05-81 AND F 06-161 HAVE BEEN PRESERVED. THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS COMPLIES WITH THOSE ANTICIPATED DURING THE DESIGN OF THE PREVIOUS FINAL PLANS.

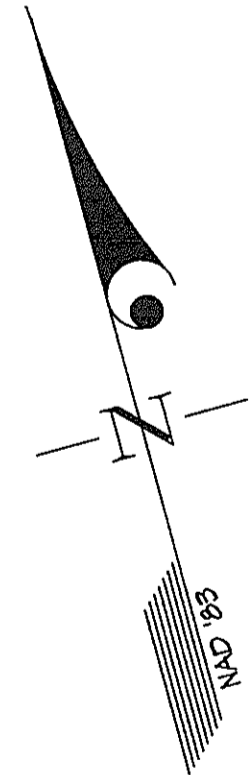
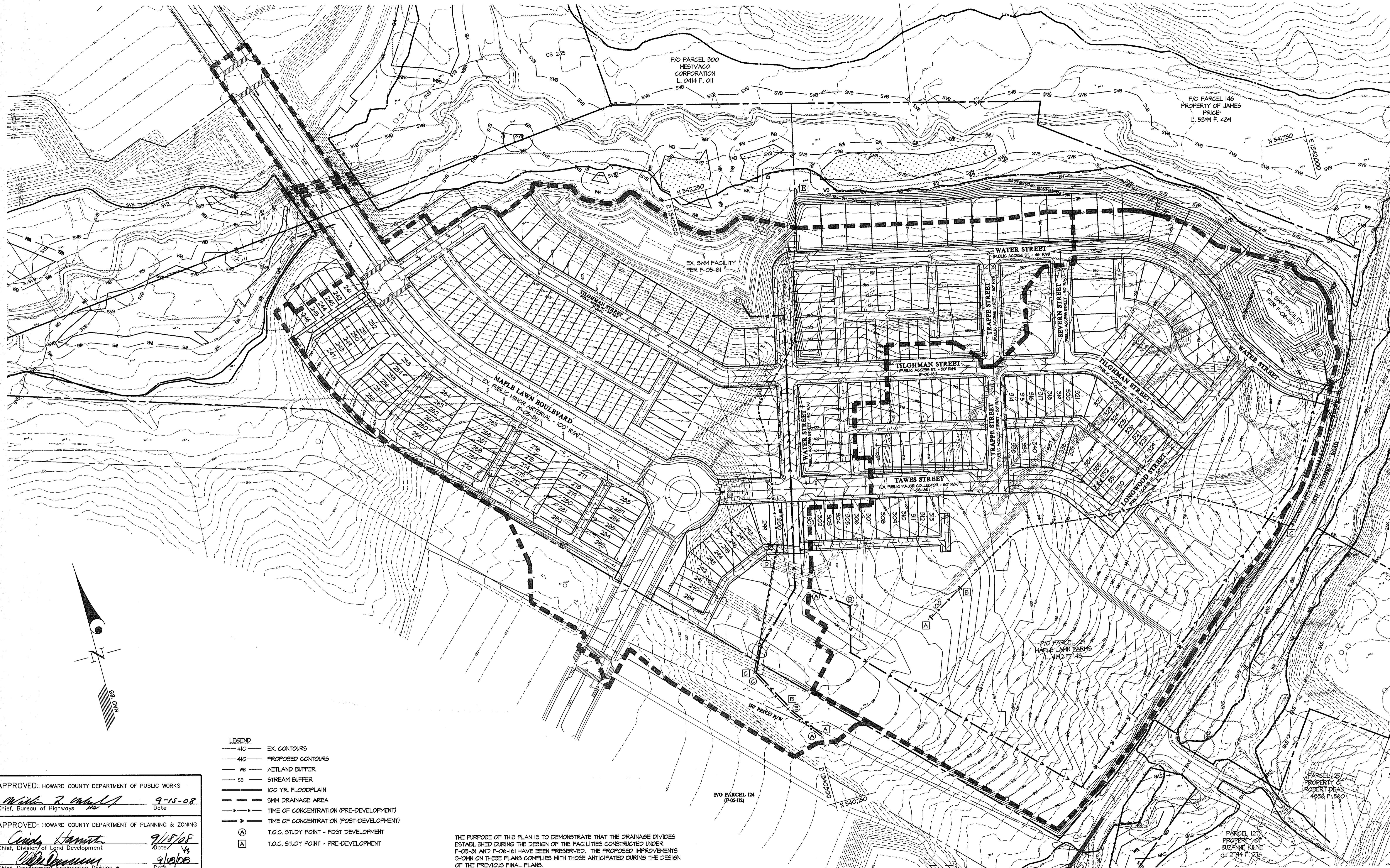
LAND USE PLAN FOR STORMWATER MANAGEMENT

MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	15 OF 19



- LEGEND**
- 410 EX. CONTOURS
 - 410 PROPOSED CONTOURS
 - WB WETLAND BUFFER
 - SB STREAM BUFFER
 - 100 YR. FLOODPLAIN
 - SWM DRAINAGE AREA
 - TIME OF CONCENTRATION (PRE-DEVELOPMENT)
 - TIME OF CONCENTRATION (POST-DEVELOPMENT)
 - (A) T.O.C. STUDY POINT - POST DEVELOPMENT
 - (B) T.O.C. STUDY POINT - PRE-DEVELOPMENT

THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THAT THE DRAINAGE DIVIDES ESTABLISHED DURING THE DESIGN OF THE FACILITIES CONSTRUCTED UNDER F-05-81 AND F-06-161 HAVE BEEN PRESERVED. THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS COMPLIES WITH THOSE ANTICIPATED DURING THE DESIGN OF THE PREVIOUS FINAL PLANS.

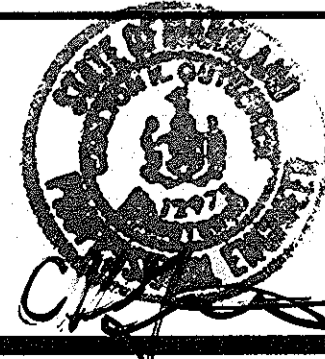
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter R. ... 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cathy Hammett 9/15/08
 Chief, Division of Land Development Date
... 9/16/08
 Chief, Development Engineering Division Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 230 - BURTNSVILLE OFFICE PARK
 BURTNSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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
 EXPIRATION DATE: MAY 28, 2010



STORMWATER MANAGEMENT DRAINAGE AREA MAP

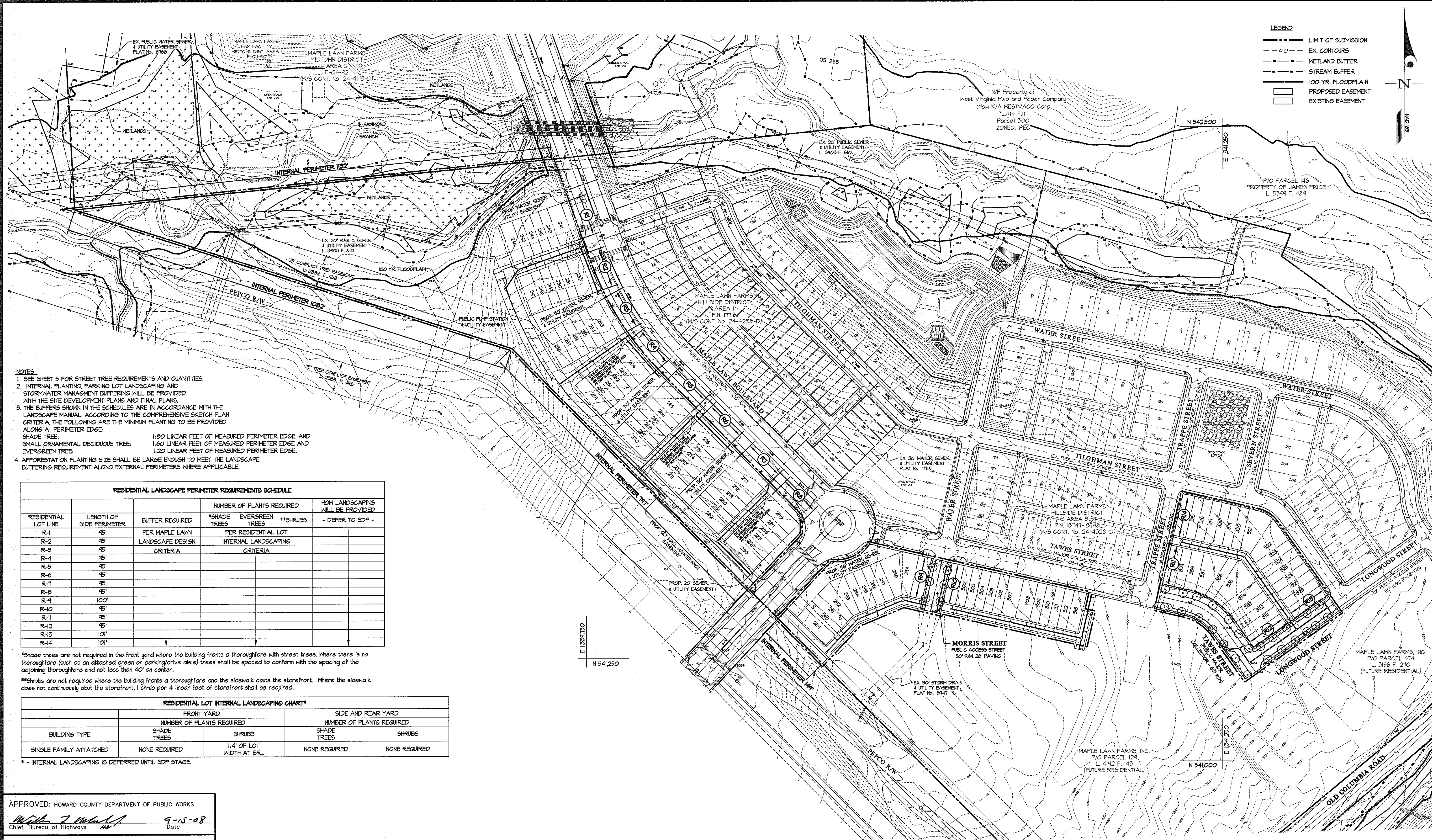
MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE	ZONING	G. L. W. FILE No.
1"=100'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	16 OF 19

DATE	REVISION	BY	APPR.

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND



- NOTES**
- SEE SHEET 5 FOR STREET TREE REQUIREMENTS AND QUANTITIES.
 - INTERNAL PLANTING, PARKING LOT LANDSCAPING AND STORMWATER MANAGEMENT BUFFERING WILL BE PROVIDED WITH THE SITE DEVELOPMENT PLANS AND FINAL PLANS.
 - THE BUFFERS SHOWN IN THE SCHEDULES ARE IN ACCORDANCE WITH THE LANDSCAPE MANUAL. ACCORDING TO THE COMPREHENSIVE SKETCH PLAN CRITERIA, THE FOLLOWING ARE THE MINIMUM PLANTING TO BE PROVIDED ALONG A PERIMETER EDGE:
 SHADE TREE: 1:80 LINEAR FEET OF MEASURED PERIMETER EDGE, AND
 SMALL ORNAMENTAL DECIDUOUS TREE: 1:60 LINEAR FEET OF MEASURED PERIMETER EDGE AND
 EVERGREEN TREE: 1:20 LINEAR FEET OF MEASURED PERIMETER EDGE.
 - AFFORESTATION PLANTING SIZE SHALL BE LARGE ENOUGH TO MEET THE LANDSCAPE BUFFERING REQUIREMENT ALONG EXTERNAL PERIMETERS WHERE APPLICABLE.

RESIDENTIAL LOT LINE	LENGTH OF SIDE PERIMETER	BUFFER REQUIRED	NUMBER OF PLANTS REQUIRED			HOW LANDSCAPING WILL BE PROVIDED
			*SHADE TREES	EVERGREEN TREES	**SHRUBS	- DEFER TO SDP -
R-1	45'	PER MAPLE LAWN	PER RESIDENTIAL LOT			
R-2	45'	LANDSCAPE DESIGN	INTERNAL LANDSCAPING			
R-3	45'	CRITERIA	CRITERIA			
R-4	45'					
R-5	45'					
R-6	45'					
R-7	45'					
R-8	45'					
R-4	100'					
R-10	45'					
R-11	45'					
R-12	45'					
R-13	101'					
R-14	101'					

*Shade trees are not required in the front yard where the building fronts a thoroughfare with street trees. Where there is no thoroughfare (such as an attached green or parking/drive aisle) trees shall be spaced to conform with the spacing of the adjoining thoroughfare and not less than 40' on center.

**Shrubs are not required where the building fronts a thoroughfare and the sidewalk abuts the storefront. Where the sidewalk does not continuously abut the storefront, 1 shrub per 4 linear feet of storefront shall be required.

BUILDING TYPE	FRONT YARD		SIDE AND REAR YARD	
	SHADE TREES	SHRUBS	SHADE TREES	SHRUBS
SINGLE FAMILY ATTACHED	NONE REQUIRED	1:4' OF LOT WIDTH AT BRL	NONE REQUIRED	NONE REQUIRED

* - INTERNAL LANDSCAPING IS DEFERRED UNTIL SDP STAGE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter J. White 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Anda Harant 9/15/08
 Chief, Division of Land Development Date

Chris Cummings 9/10/08
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 230 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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
 EXPIRATION DATE: MAY 28, 2010



FINAL LANDSCAPE PLAN AND NOTES

MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4
 Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

SCALE: 1"=100'
 ZONING: MXD-3
 G. L. W. FILE No.: 06001

DATE: AUG, 2008
 TAX MAP - GRID: 41-21&22
 SHEET: 17 OF 19

ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

L:\CAD\DRAWINGS\04001\06001\FINALS\06001S17.dwg PLOT DATE: 8/19/2008 3:39 PM. LAST SAVED: 7/7/2008 11:35 AM. PLOTTED BY: Tony Loggner




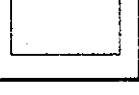
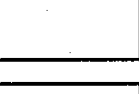
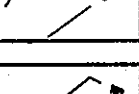
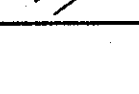



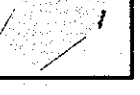
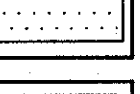
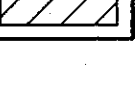
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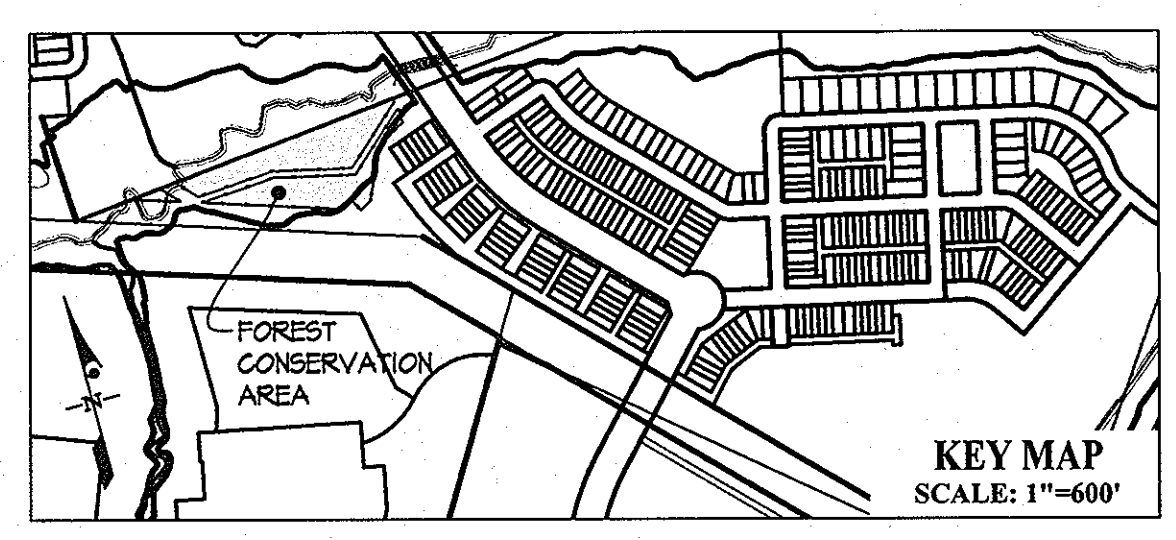
GROSS AREA - PHASE 6a: 10.30
 NET TRACT AREA: 6.46

CONSERVATION ESMT #21:
 AREA: 0.07 AC.
 FOREST RETENTION IN NET TRACT: 0.00 AC
 FOREST RETENTION IN FLOOD PLAIN: 0.05 AC
 FOREST PLANTING IN NET TRACT: 0.00 AC
 FOREST PLANTING IN FLOOD PLAIN: 0.02 AC

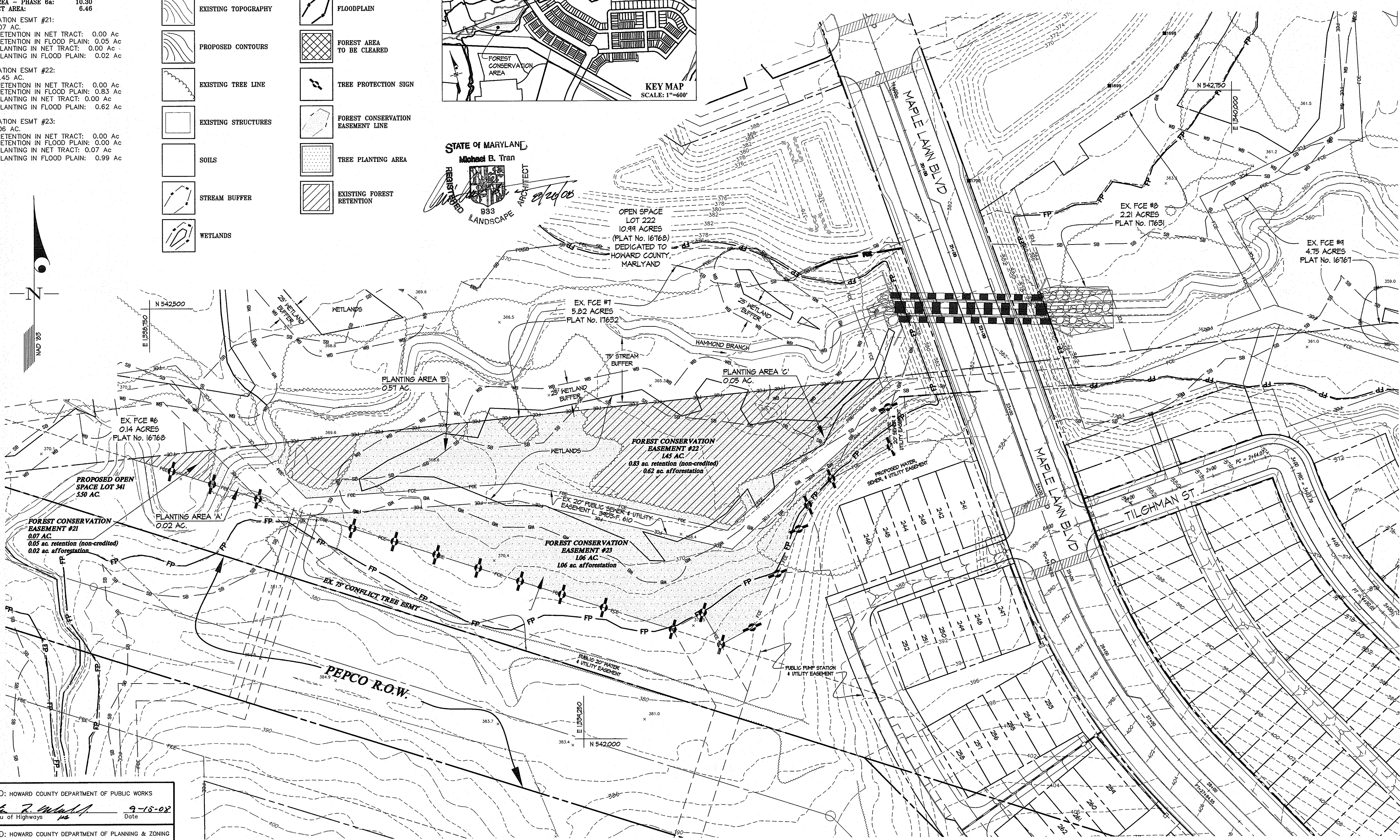
CONSERVATION ESMT #22:
 ACRES: 1.45 AC.
 FOREST RETENTION IN NET TRACT: 0.00 AC
 FOREST RETENTION IN FLOOD PLAIN: 0.83 AC
 FOREST PLANTING IN NET TRACT: 0.00 AC
 FOREST PLANTING IN FLOOD PLAIN: 0.62 AC

CONSERVATION ESMT #23:
 AREA: 1.06 AC.
 FOREST RETENTION IN NET TRACT: 0.00 AC
 FOREST RETENTION IN FLOOD PLAIN: 0.07 AC
 FOREST PLANTING IN NET TRACT: 0.07 AC
 FOREST PLANTING IN FLOOD PLAIN: 0.99 AC

-  EXISTING TOPOGRAPHY
-  PROPOSED CONTOURS
-  EXISTING TREE LINE
-  EXISTING STRUCTURES
-  SOILS
-  STREAM BUFFER
-  WETLANDS
-  FLOODPLAIN
-  FOREST AREA TO BE CLEARED
-  TREE PROTECTION SIGN
-  FOREST CONSERVATION EASEMENT LINE
-  TREE PLANTING AREA
-  EXISTING FOREST RETENTION



STATE OF MARYLAND
 Michael B. Tran
 REGISTERED LANDSCAPE ARCHITECT
 933



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Willa Z. White 9-15-08
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cindy Harmit 9/15/08
 Chief, Division of Land Development Date

Bill Demaris 9/15/08
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONTOWNE OFFICE PARK
 BURTONTOWNE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE	REVISION	BY	APPR.

PREPARED FOR:
 G&R MAPLE LAWN INC
 SUITE 300 WOODHOLME CENTER
 1829 REISTERSTOWN ROAD
 BALTIMORE, MD 21208
 ATTN: CHARLIE O'DONOVAN
 410-484-8400

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. 12973
 EXPIRATION DATE: MAY 26, 2010



FINAL FOREST CONSERVATION PLAN

**MAPLE LAWN FARMS
 HILLSIDE DISTRICT - AREA 4**
 Lots 241 through 340, Open Space Lot 341,
 and Common Open Areas 342 through 347

ELECTION DISTRICT No. 5

SCALE	ZONING	G. L. W. FILE No.
1"=50'	MXD-3	06001
DATE	TAX MAP - GRID	SHEET
AUG., 2008	41-21&22	18 OF 19

FOREST CONSERVATION PLANTING NOTES

RETENTION / AFFORESTATION / REFORESTATION SUMMARY TABLE FOR MAPLE LAWN FARM PROJECT

PHASE NO.	GROSS AC.	FLOODPLAIN AC.	NET TRACT AREA	EXG. FOREST IN AC.	FOREST CLEARED	FOREST RETAINED	EXCESS RETENTION	REF/AFF REQUIRED	CREDITED PLANTING PROVIDED	EXCESS FOREST CON (PLANTING-RETENTION)	COMMENTS
1	51.48	3.40	48.08	9.45	0.51	8.94	0.63	0.00	4.56	5.19	Per F-03-07
2	75.20	2.38	72.82	0.00	0.00	0.00	0.00	10.92	6.67	-4.25	Per F-03-40
3	5.70	0.00	5.70	0.00	0.00	0.00	0.00	0.86	0.00	-0.86	Per SDP-03-140
3	19.04	14.85	4.24	0.21	0.00	0.21	0.00	0.43	10.49	10.06	Per F-04-42
3	-	-	-	-	-	-	-	-	-1.16	-1.16	④ Per F-05-82
4a	15.48	3.00	12.48	1.42	1.65	0.27	0.00	3.21	0.88	-2.33	Per F-02-177
4b	3.12	0.35	2.77	0.00	0.00	0.00	0.00	0.42	-0.12	-0.54	Per F-05-139
4c	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.45	0.00	-0.45	Per F-05-112
5a	0.00	-	-	-	-	-	-	-	-	-	Per F-06-43
5b	54.61	7.27	47.34	3.76	0.51	3.25	0.00	4.36	5.74	1.38	Per F-02-178
6a	10.30	3.84	6.46	0.00	0.00	0.00	0.00	0.97	1.70	0.73	PER THIS PLAN
SDP-MG	25.06	0.00	25.06	0.00	0.00	0.00	0.00	3.76	0.00	-3.76	SDP-07-43
6b	69.86	1.22	68.64	4.59	2.10	2.49	0.00	9.91	11.22	1.31	F-08-54/F-08-55
TOTAL	333.41	36.31	297.10	19.43	4.77	15.16	0.63	35.29	34.98	5.32	

- ① INCLUDES FUTURE PHASE AREAS OF MAPLE LAWN FARMS. WHEN THOSE AREAS ARE RECORDED IN FUTURE PHASES, THE FOREST CONSERVATION REQUIREMENTS WILL ALREADY HAVE BEEN MET.
- ② 19.04 ACRES = 54.60 ACRES (PHASE 3 SITE TOTAL) - 40.71 ACRES (AREA OF FOREST CON. IN PHASE 3 ALREADY PROVIDED BY F-03-40 (35.01 AC) AND SDP-03-140 (5.70 AC).)
- ③ REDUCED FROM 6.97 AC. AS SHOWN ON F-03-40 TO 6.67 AC. BECAUSE OF THE 0.16 AC. REDUCTION OF CONSERVATION EASEMENT #4 ON F-04-79 AND THE 0.14 AC. REDUCTION OF CONSERVATION EASEMENT #5 ON F-04-88.
- ④ F-05-82 IS A REVISION OF OPEN SPACE LOTS 221 & 222, AND A CONVERSION OF PARCEL 'E' TO R/W. FOREST CONSERVATION EASEMENT (FCE) #1 WILL ABANDON 0.25 AC. AND FCE #2 WILL ABANDON 0.91 AC.
- ⑤ 3.12 ACRES = 4.38 ACRES (PHASE 4 SITE TOTAL) - 1.26 ACRES (AREA OF FOREST CON. IN PHASE 4 ALREADY PROVIDED BY F-03-40 AND F-04-42).
- ⑥ 0.12 ACRES = AREA SUBTRACTED FROM FOREST CONSERVATION AREA #11 TO CREATE PUBLIC DRAINAGE AND UTILITY EASEMENT
- ⑦ PHASE 5A IS A RESUBDIVISION OF NON-BUILDABLE PARCELS F & G. THIS AREA WAS COVERED UNDER F-05-81.
- ⑧ TOTAL AREA FOR PHASE 5B (54.61 AC.) = AREA PLATTED (33.06 AC.) + AREA BEING MASS GRADED OUTSIDE FLATTED AREA (21.55 AC.)
- ⑨ 0.01 ACRES OF PROVIDED PLANTING IN FCE #16 TO BE REMOVED UNDER F-06-162, LEAVING -2.33 AC. EXCESS UNDER F-05-81
- ⑩ TOTAL AREA FOR PHASE 6a (10.30 AC.) = AREA PLATTED (15.05 AC.) - AREA ALREADY COVERED UNDER F-06-161 (4.75 AC.)
- ⑪ TOTAL AREA FOR PHASE 6b (69.86 AC.) = AREA OF F. 116 PRIOR TO FLATTING (94.21 AC.) - AREA OF SDP-07-43 WITHIN LIMITS OF THIS SUBMISSION (23.79 AC.) - AREA COVERED BY THIS PLAN (0.56 AC.)

FOREST CONSERVATION PLANTING QUANTITY SCHEDULE

FOREST PLANTING LOCATION NO.	A (esmt.21)	B (esmt.22)	C (esmt.22)	D (esmt.23)	TOTAL
AREA TO BE PLANTED (IN AC.)	.02	.57	.05	1.06	1.70
BASE QUANTITY OF 2" CAL. TREES REQUIRED (AT 100 TREES/AC.)	2	57	5	106	170
CREDIT FOR LANDSCAPE TREES	N/A	N/A	N/A	N/A	N/A
REQUIRED QUANTITY OF 2" CAL. TREES TO BE PLANTED	2	57	5	106	170

FOREST CONSERVATION PLANT LIST

PLANT NAME (BOTANICAL/COMMON)	FOREST PLANTING AREA				
	A	B	C	D	TOTAL
AMEKANCHIER CANADENSIS/SERVICEBERRY					0
ACER RUBRUM/RED MAPLE	1	19	2	36	59
CERCIS CANADENSIS/EASTERN REDBUD					0
LIRIODENDRON TULIPIFERA/TULIP TREE					0
PLATANUS OCCIDENTALIS/AMERICAN SYCAMORE (PLANETREE)	1	19	2	35	58
QUERCUS PALUSTRIS/PIN OAK					0
LIQUIDAMBAR STYRACIFLUA/SWEET GUM					0
QUERCUS RUBRUM/RED OAK					0
QUERCUS BICOLOR/SWAMP WHITE OAK		19	1	35	57
PINUS STROBUS/WHITE PINE					0
TOTAL	2	57	5	106	170

NOTES:
1. THE QUANTITY SHOWN ABOVE IS FOR PLANTING WITH 2 1/2" CAL. TREES AT 20' X 20' SPACING. EVERGREEN TREES SHALL BE 6'-8' HT.

TABULATION OF PROPOSED FOREST CONSERVATION AREAS					
	FOREST CONSERVATION ESMT	21	22	23	TOTAL
CREDITED	FOREST PLANTING PROVIDED IN THE 100-YR FLOOD PLAIN	0.02 Ac.	0.62 Ac.	0.99 Ac.	1.63 Ac.
CREDITED	FOREST PLANTING PROVIDED OUTSIDE THE 100-YR FLOOD PLAIN	0.00 Ac.	0.00 Ac.	0.07 Ac.	0.07 Ac.
NON-CREDITED	FOREST RETENTION INSIDE THE 100-YR FLOOD PLAIN	0.05 Ac.	0.83 Ac.	0.00 Ac.	0.88 Ac.
CREDITED	FOREST RETENTION OUTSIDE THE 100-YR FLOOD PLAIN	0.00 Ac.	0.00 Ac.	0.00 Ac.	0.00 Ac.
	TOTAL AREA OF EACH FOREST CONSERVATION AREA	0.07 Ac.	1.45 Ac.	1.06 Ac.	2.58 Ac.

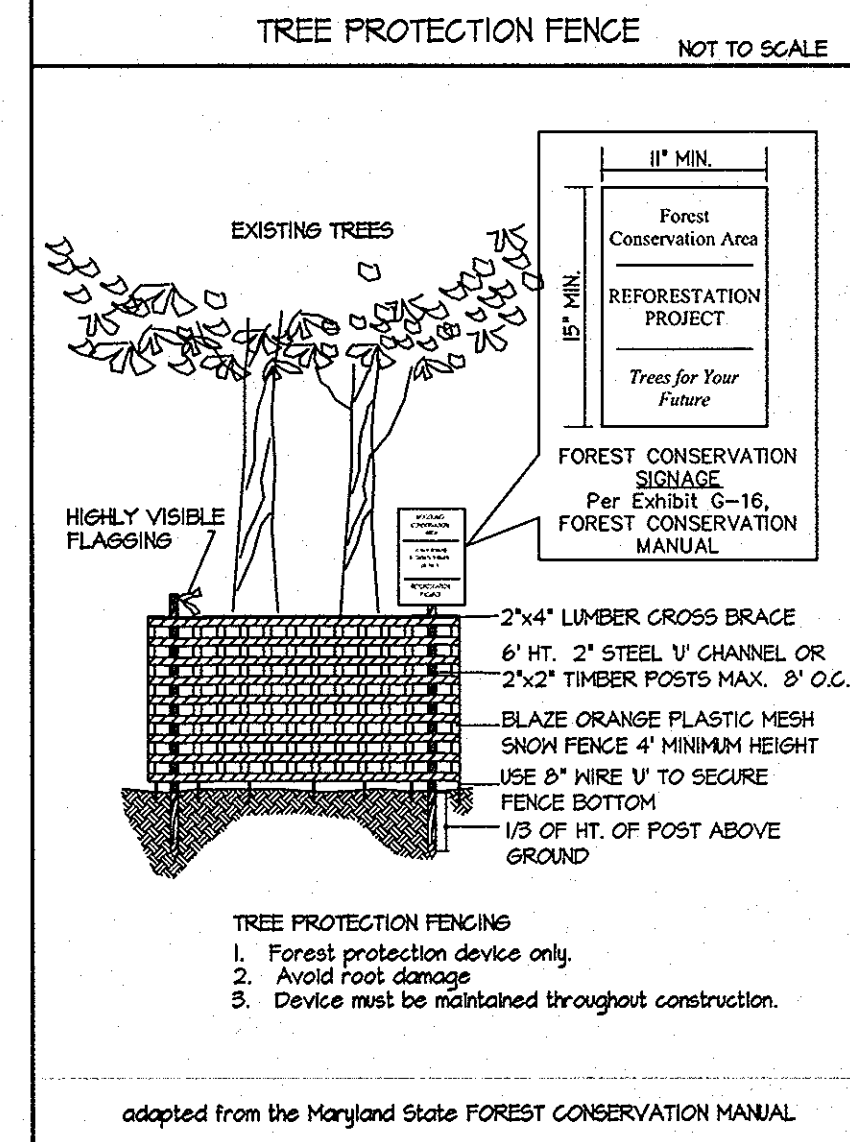
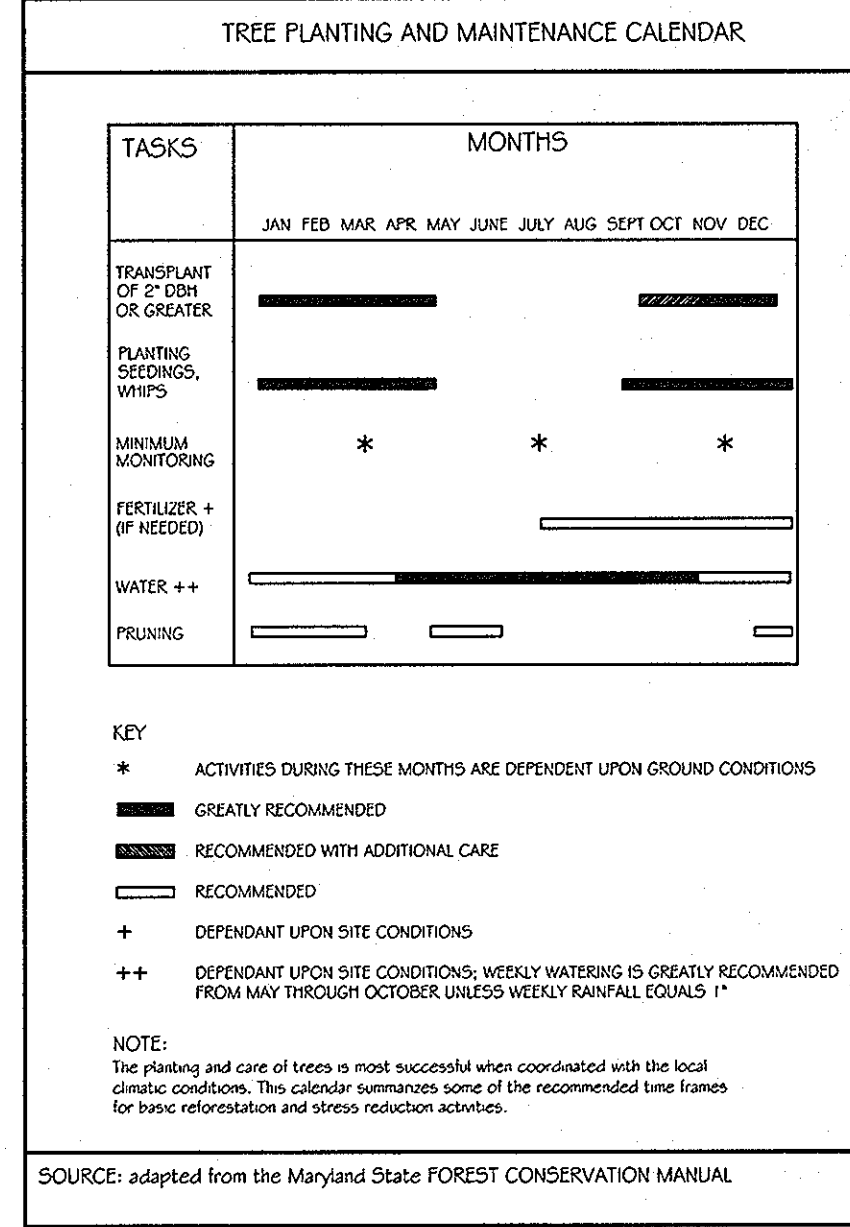
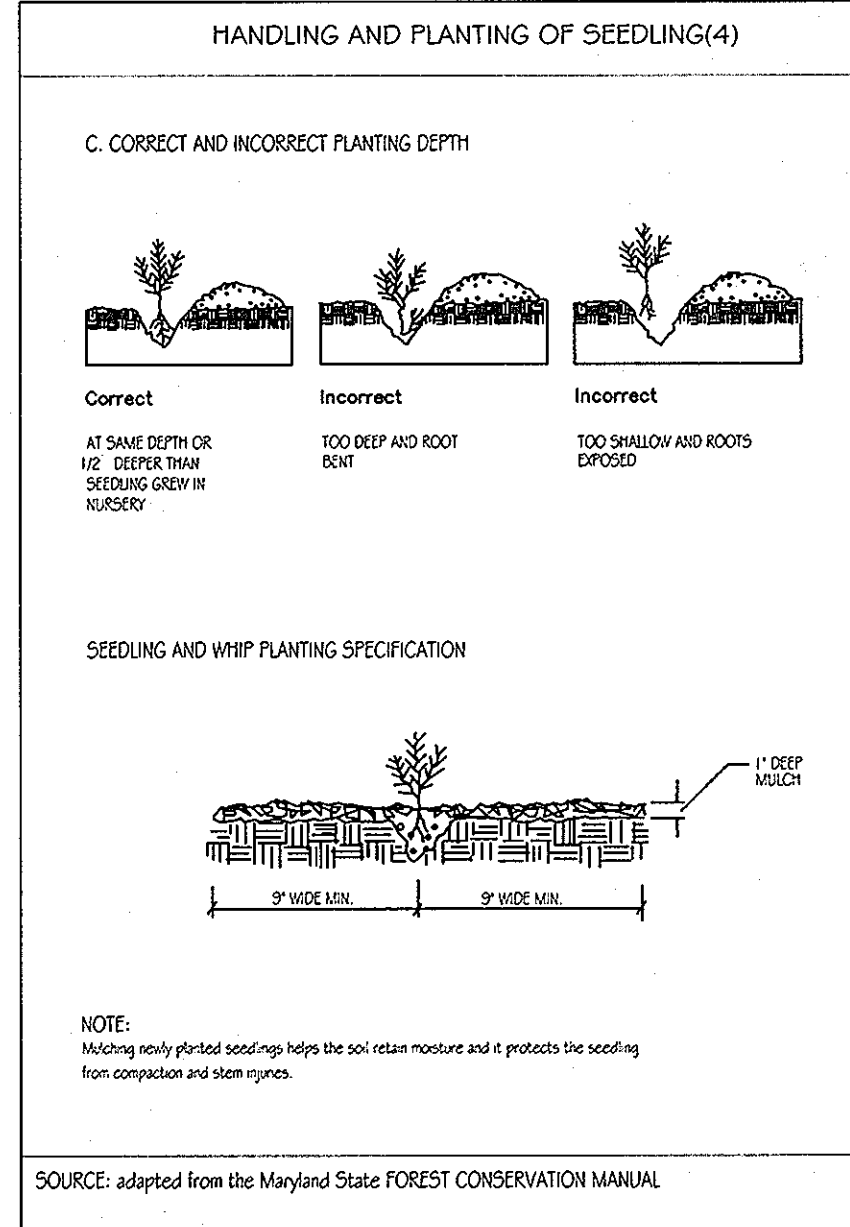
CONSTRUCTION PERIOD PROTECTION PROGRAM

- THE LIMIT OF FOREST RETENTION SHALL BE STAKED AND FLAGGED.
- A PRE-CONSTRUCTION MEETING AT THE SITE SHOULD BE HELD TO CONFIRM THE LIMITS OF CLEARING SPECIFIED. THE MEETING SHOULD INCLUDE THE OWNER OR THE OWNER'S REPRESENTATIVE, THE ON-SITE FOREMAN IN CHARGE OF LAND DISTURBANCE, THE ENVIRONMENTAL CONSULTANT AND THE APPROPRIATE HOWARD COUNTY INSPECTORS.
- FOREST PROTECTION DEVICES AND SIGNS (SEE DETAILS) SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING. THE PROTECTION DEVICES AND SIGNS SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD. NONE OF THE DEVICES SHALL BE ANCHORED OR ATTACHED IN ANY WAY TO THE TREES TO BE SAVED. THE MAINTENANCE TIME FRAME MAY BE EXTENDED TO ACCOMMODATE SUBSEQUENT PHASES OF DEVELOPMENT.
- EQUIPMENT, VEHICLES AND BUILDING MATERIALS SHALL NOT BE WITHIN THE PROTECTED AREA. ACTIVITIES STRICTLY TO IMPLEMENT ANY REFORESTATION PLANTING AND MAINTENANCE (IE: WATERING, FERTILIZING THINNING, PRUNING, REMOVAL OF DEAD AND DISEASED TREES WHERE NECESSARY, ETC.) OF THE CONSERVATION AREA ARE PERMITTED. CLEARING FOR THE PURPOSE OF SODDING OR PLANTING GRASS IS NOT PERMITTED WITHIN THE FOREST CONSERVATION AREA ONCE IT'S ESTABLISHED.
- AT THE END OF THE CONSTRUCTION PERIOD, THE DESIGNATED QUALIFIED PROFESSIONAL SHALL CONVEY CERTIFICATION TO THE ADMINISTRATOR OF THE HOWARD COUNTY FOREST CONSERVATION PROGRAM THAT ALL FOREST RETENTION AREAS HAVE BEEN PRESERVED, ALL REFORESTATION AND/OR AFFORESTATION PLANTINGS (IF APPLICABLE) HAVE BEEN INSTALLED AS REQUIRED BY THE FOREST CONSERVATION PLAN, AND THAT ALL PROTECTION MEASURES REQUIRED FOR THE POST-CONSTRUCTION PERIOD HAVE BEEN INSTALLED. UPON REVIEW OF THE FINAL CERTIFICATION DOCUMENT FOR COMPLETENESS AND ACCURACY, THE PROGRAM COORDINATOR WILL NOTIFY THE OWNER OF RELEASE FROM THE CONSTRUCTION PERIOD OBLIGATIONS. THE 2-YEAR (MIN) POST-CONSTRUCTION MANAGEMENT AND PROTECTION PERIOD THEN COMMENCES.

FOREST CONSERVATION PROGRAM SEQUENCE

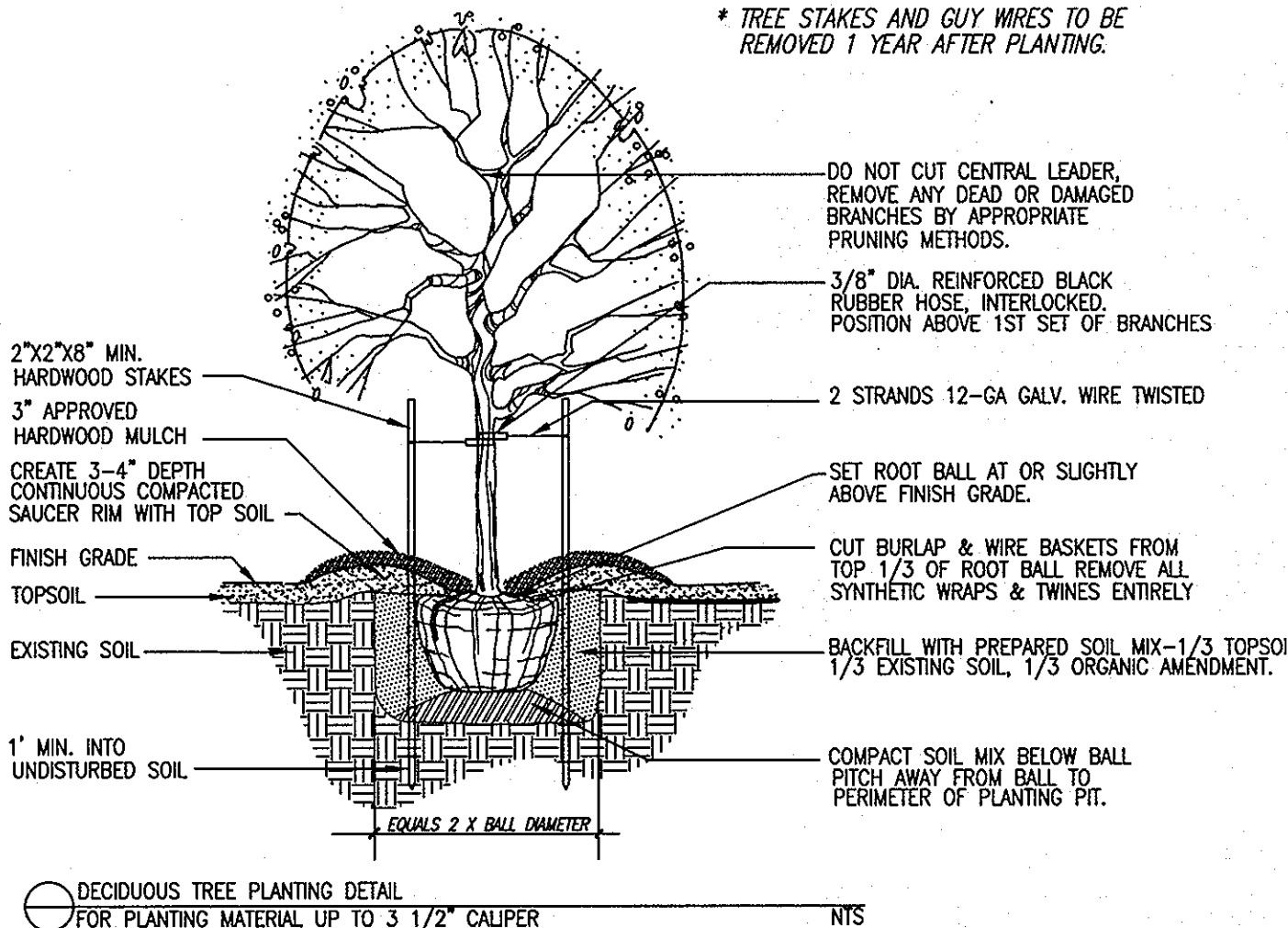
- OBTAIN ALL NECESSARY PERMITS.
- STAKEOUT LIMITS OF DISTURBANCE.
- FIELD MEETING TO REVIEW AND VERIFY LIMIT OF DISTURBANCE FOR THE LIMITS OF GRADING AND CONSTRUCTION.
- INSTALL FOREST CONSERVATION SIGNS (SEE DETAIL ON THIS SHEET) AND FOREST PROTECTION DEVICES ALONG THE FCE AREAS. (FENCES) ALONG THE PORTION OF THE LIMIT OF DISTURBANCE (THAT INVOLVES CLEARING AND/OR RETENTION OF TREES) SEE ALSO THE SEDIMENT CONTROL PLANS FOR OTHER PROTECTION MEASURES.
- COMMENCE SITE CONSTRUCTION.
- INSPECTION AND CERTIFICATION FOR THE RELEASE OF THE CONSTRUCTION PERIOD OBLIGATIONS; START OF POST-CONSTRUCTION MANAGEMENT PERIOD.
- POST-CONSTRUCTION MANAGEMENT FOR A PERIOD OF 2 YEARS (MIN).
- FINAL INSPECTION AND CERTIFICATION FOR THE RELEASE OF THE OWNER'S FOREST CONSERVATION OBLIGATION.

- NOTES:
1. THE TREE PROTECTION FENCING SHOWN ON THESE PLANS IS TEMPORARY AND SHALL REMAIN IN PLACE DURING CONSTRUCTION ACTIVITY, BUT THE FOREST CONSERVATION SIGNAGE IS PERMANENT AND SHALL REMAIN IN PLACE ALONG THE FOREST CONSERVATION EASEMENTS AFTER THE REMOVAL OF THE TREE PROTECTION FENCING.
- FOREST CONSERVATION SIGNAGE SHALL BE INSTALLED ALONG THE PERIMETER OF THE CONSERVATION EASEMENT AT 50' TO 100' APART AND AT ALL CORNERS WHERE THE EASEMENT CHANGES DIRECTION.
 - ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

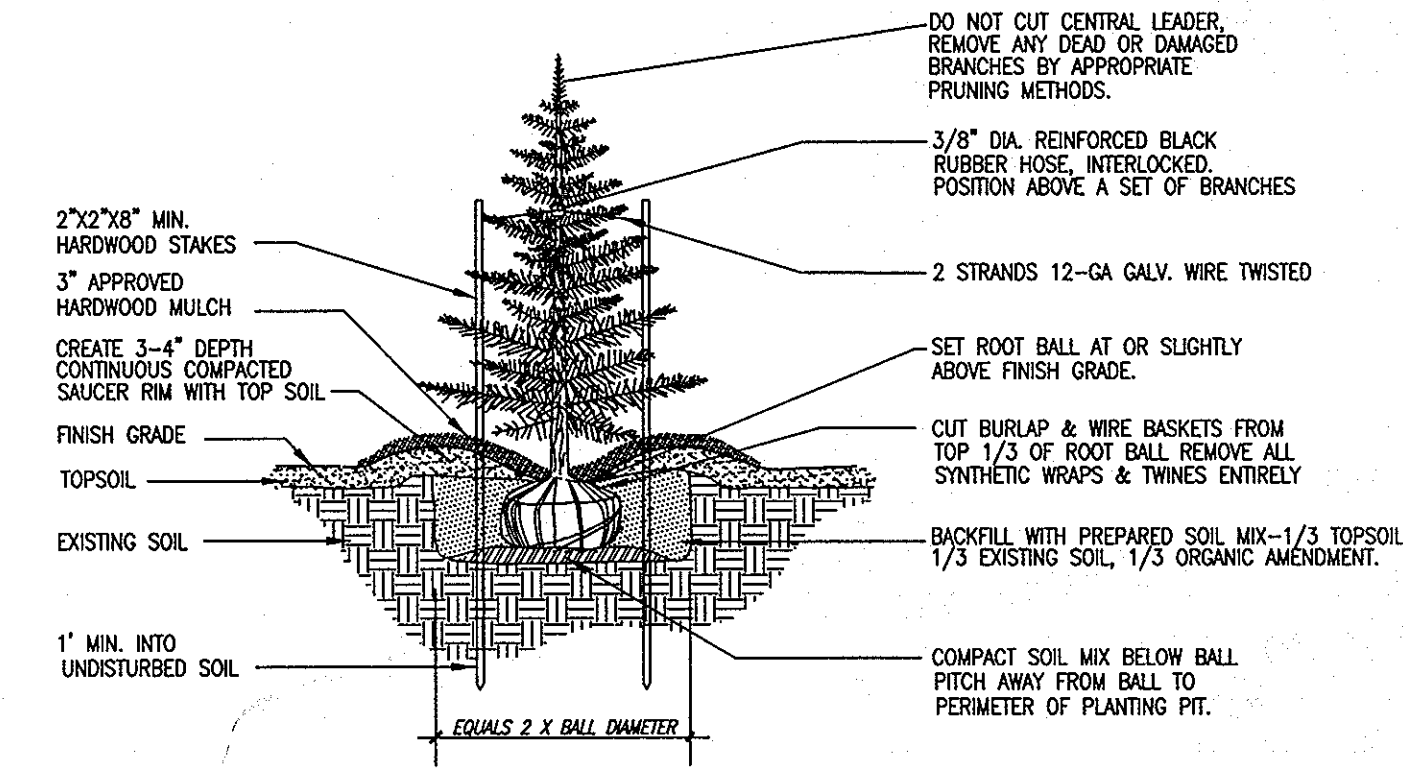


GENERAL NOTES

- This afforestation plan is provided in accordance with the requirements of Subtitle 12 'Forest Conservation' of the Howard County Code.
- Implementation of this plan must be performed by a contractor that is knowledgeable and experienced in afforestation/reforestation techniques and practices.
- The owner is responsible for a 2-year (min) post-construction maintenance period which involves activities necessary to ensure survival and growth of the conservation area. Two inspections per year by a qualified professional at beginning and end of the growing season, are recommended in order to take remedial steps as necessary. If, after one year, the possibility exists that the original planting (if applicable) will not meet survival rate standards, the applicant may choose to establish reinforcement plantings.
- At the end of the post-construction management and protection period, certification by a qualified consultant will be required before the owner can be released from his/her forest conservation obligation to the administrator of the Howard County Forest Conservation program.
- The contractor is responsible for the location of any existing utilities. The repair of any utilities damaged by the contractor shall be at the contractor's expense.
- Street trees provided at Final Plan Stage. Landscape and Buffering requirements to be provided at Final Plan Stage or Site Plan Stage.
- The forest conservation easements shown on this plan will be established to fulfill the requirements of the Forest Conservation Program. No clearing, grading or construction is permitted within the forest conservation easements, however, forest management practices as defined in the Deed of Forest Conservation Easement are allowed.
- The forest conservation requirements per Section 16.1202 of the Howard County Code and the Forest Conservation Manual for Phase 6a of this project with an afforestation and reforestation obligation of 0.97 acres will be fulfilled with afforestation planting in the amount of 170 acres, which leaves 5.32 acres of excess afforestation planting being done in advance as forest conservation credit for future phases of this project. Forest Conservation surety in the amount of \$37,026.00 will be posted with the DPM, Developer's Agreement.



DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER NTS



EVERGREEN TREE PLANTING DETAIL NTS

FOREST CONSERVATION WORKSHEET	
SITE DATA	
A. GROSS SITE AREA	10.30*
B. AREA WITHIN 100-YEAR FLOOD PLAIN	3.64
C. NET TRACT AREA	6.46
D. LAND USE CATEGORY	MXD-3
E. AFFORESTATION THRESHOLD (15% X NET TRACT AREA)	0.97
F. CONSERVATION THRESHOLD (15% X NET TRACT AREA)	0.97
EXISTING FOREST COVER	
G. EXISTING FOREST ON NET TRACT AREA	0.00
H. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD (On Net Tract Area)	0.00
I. AREA OF FOREST ABOVE CONSERVATION THRESHOLD (On Net Tract Area)	0.00
PROPOSED FOREST CLEARING	
J. FOREST AREAS TO BE CLEARED (On Net Tract Area)	0.00
K. FOREST AREAS TO BE RETAINED (On Net Tract Area)	0.00
PLANTING REQUIREMENTS	
TOTAL REFORESTATION ABOVE THRESHOLD REQUIRED (I x 0.25)	0.00
TOTAL REFORESTATION REQUIRED ((J-I) x 2.00)	0.00
TOTAL AFFORESTATION REQUIRED (E - C)	0.97
TOTAL AFFORESTATION AND REFORESTATION REQUIRED	0.97
PLANTING TO BE PROVIDED	1.70
*Total Area for Phase 6a (10.30 Ac.) = Area platted (15.05 Ac.) - Area already covered under F-06-161 (4.75 Ac.)	

FOREST CONSERVATION SURETY CALCULATIONS	
74,052 X \$0.50/S.F. RE/AFFORESTATION =	\$37,026.00
0.00 X \$0.20/S.F. RETENTION =	\$0.00
TOTAL SURETY =	\$37,026.00

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter J. ... 9-15-08
Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cinda Hamer 7/15/05
Chief, Division of Land Development Date

Chad ... 9/18/08
Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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DATE	REVISION	BY	APPR.

PREPARED FOR:
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SUITE 300 WOODHOLME CENTER
1829 REISTERSTOWN ROAD
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ATTN: CHARLIE O'DONOVAN
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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
EXPIRATION DATE: MAY 26, 2010

FINAL FOREST CONSERVATION DETAILS AND NOTES

MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4
Lots 241 through 340, Open Space Lot 341, and Common Open Areas 342 through 347

ELECTION DISTRICT No. 5

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	MXD-3	06001
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HOWARD COUNTY, MARYLAND