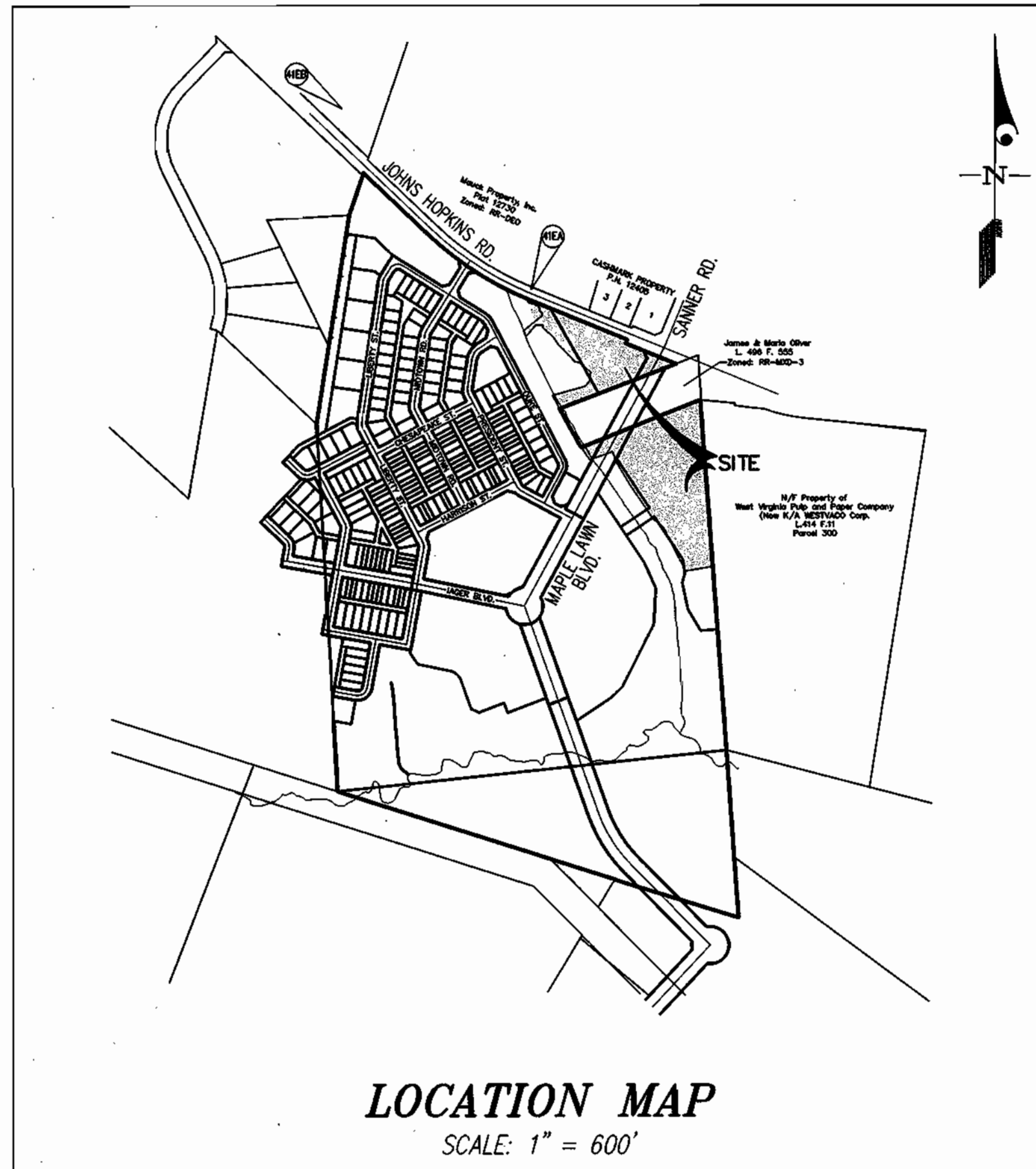
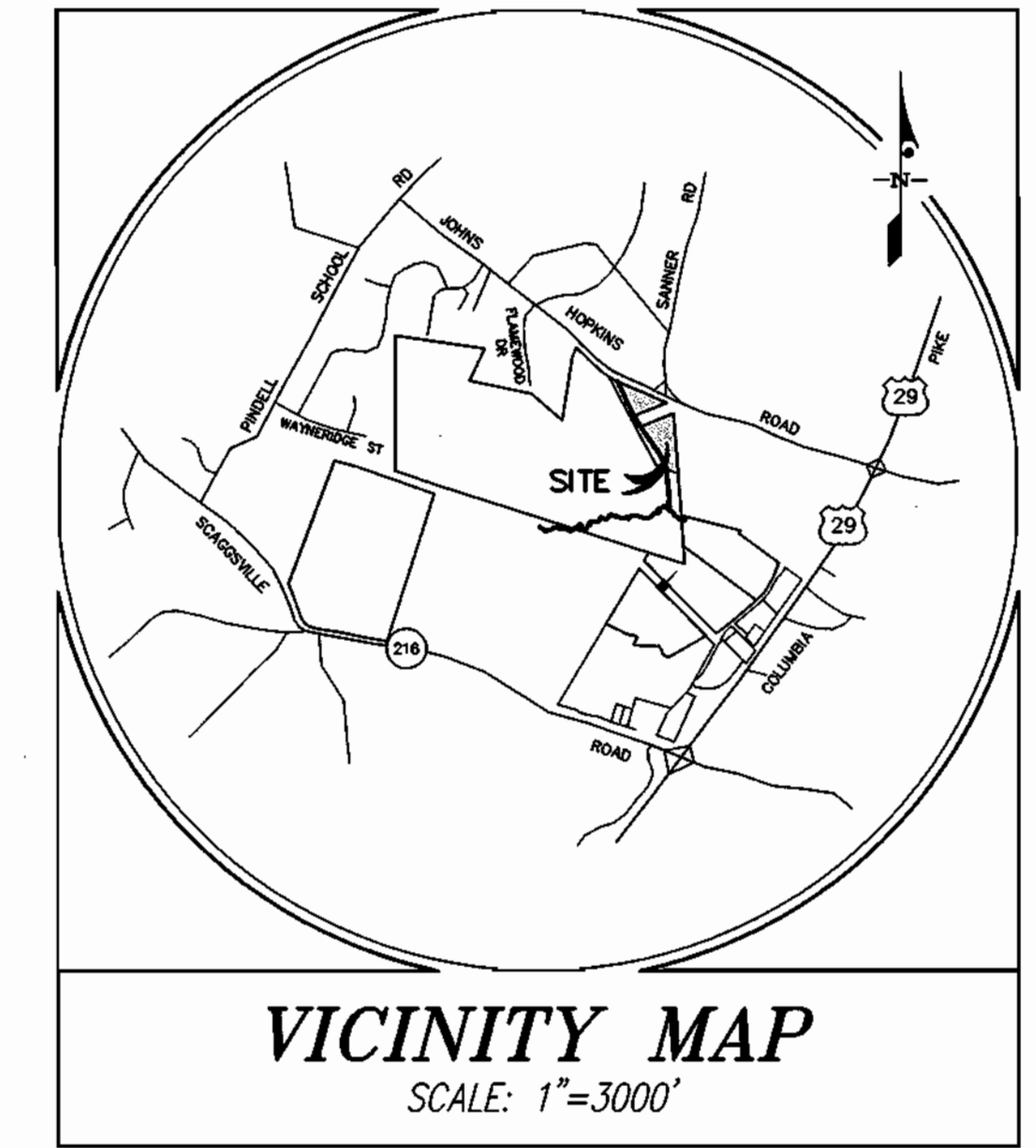


SITE PLAN FOR MASS GRADING AND PATHWAY CONSTRUCTION

MAPLE LAWN FARMS

MIDTOWN DISTRICT



BENCHMARKS

41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

LEGEND

←	EARTH DIKE
SSS	SUPER SILT FENCE
L.O.D.	LIMIT OF DISTURBANCE
---	DRAINAGE DIVIDE
VB	WETLAND BUFFER
SB	STREAM BUFFER
---	FLOODPLAIN
---	EX. CONTOUR
---	PROP. CONTOUR
L.O.S.	LIMIT OF SUBMISSION
ECM	EROSION CONTROL MATTING

- #### GENERAL NOTES
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
 - PROJECT BACKGROUND:
LOCATION: JOHNS HOPKINS ROAD
TAX MAP: 41-15, 16, 21, & 22
ZONING: MXD-3
ELECTION DISTRICT: 5
GROSS AREA OF TRACT: 507.9 ACRES
AREA OF SUBMISSION: 8.65 ACRES
 - SEE DEPARTMENT OF PLANNING & ZONING FILE NUMBERS: S 01-17, ZB-995M, PB-353, P-03-01, F-03-090, WP 03-02, AND WP 03-120.
 - THE TOPOGRAPHY SHOWN WAS TAKEN FROM AERIAL TOPOGRAPHY PREPARED DURING MARCH 1997 BY JDI.
 - HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 41EA & 41EB.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /DIVISION OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.
 MISS UTILITY 1-800-257-7777
 VERIZON 1-800-446-5286
 HOWARD COUNTY BUREAU OF UTILITIES 410-313-4900
 AT&T CABLE LOCATION DIVISION 393-3553
 BALTIMORE GAS & ELECTRIC CO. 410-850-4620 & 410-787-9068
 - SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH "1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL".
 - ZONING: SITE IS BEING DEVELOPED UNDER MXD-3 REGULATIONS, PER ZB995M, WHICH WAS APPROVED ON 2/8/01. UNDERLYING ZONING IS RR.
 - THE CEMETERY INVENTORY MAPS DO NOT SHOW ANY CEMETERIES WITHIN THE PROJECT LIMITS.
 - SOILS DATA WAS TAKEN FROM THE SOIL SURVEY OF HOWARD COUNTY, MARYLAND ISSUED JULY 1968.
 - BOUNDARY INFORMATION SHOWN IS BASED UPON A FIELD SURVEY PREPARED BY GUTSCHICK, LITTLE, AND WEBER, P.A. ON OR ABOUT JUNE, 2001.
 - WETLAND DELINEATION BY EXPLORATION RESEARCH, INC. APPROVED BY THE CORPS OF ENGINEERS JD 63787-3 ON 5/14/98. NOTICE OF INTENT TO ISSUE A PERMIT IS COVERED BY MDE TRACKING #01-NT-0344/200165421.
 - THE 100-YEAR FLOOD PLAIN LIMITS WERE DETERMINED BY THE FLOODPLAIN STUDY PREPARED BY GUTSCHICK, LITTLE AND WEBER, P.A. AS PART OF THE COMPREHENSIVE SKETCH PLAN AND P 03-01.
 - EXISTING UTILITIES WERE TAKEN FROM AVAILABLE HOWARD COUNTY RECORDS.
 - PERENNIAL STREAM BUFFERS ARE DETERMINED BY LAND USE ADJOINING THE OPEN SPACE (I.E. EMPLOYMENT = 50' BUFFER, RESIDENTIAL = 75' BUFFER). ALL USES ADJOINING AN INTERMITTENT STREAM = 50' BUFFER.
 - AS A CONSEQUENCE OF THE SKETCH PLAN APPROVAL PRIOR TO NOVEMBER 15, 2001, THIS PROJECT IS GRANDFATHERED TO THE FOURTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
 - PHASING FOR THIS PROJECT IS IN ACCORDANCE WITH THE DECISION AND ORDER FOR ZONING BOARD CASE NO. ZB-995M AND THE DECISION AND ORDER FOR PB CASE NO. 353 (COMPREHENSIVE SKETCH PLAN, S-01-17).
 - NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, AND 100 YEAR FLOODPLAIN AREAS EXCEPT AS PERMITTED UNDER WP-03-120, WHICH WAS GRANTED ON JULY 29, 2003, ALLOWING THE INSTALLATION OF TEMPORARY STREAM CROSSINGS FOR PURPOSES OF EARTH MOVING OPERATIONS. THE PATHWAY AND FOOTBRIDGE CONSTRUCTION DO NOT REQUIRE A WAIVER SINCE THE PATHWAY IS DEEMED TO BE "NECESSARY DISTURBANCE" TO CONSTRUCT A SAFE PATHWAY FROM MIDTOWN AREA I TO THE MAPLE LAWN BOULEVARD/JOHNS HOPKINS ROAD INTERSECTION UNDER F-03-90.
 - WAIVER PETITION WP 03-02 WAS GRANTED ON OCTOBER 11, 2002 TO ALLOW THE FOLLOWING IN THE PHASE II PORTION OF MAPLE LAWN FARMS:
 - FILLING IN THE FLOODPLAIN IN ORDER TO CONSTRUCT A ROADWAY.
 - ELIMINATE TRUNCATIONS AT ROAD INTERSECTIONS.
 - GRADING WITHIN A 75' STREAM BUFFER.
 - FOREST CONSERVATION FOR NON-BUILDABLE PARCEL "C" AND FOR OPEN SPACE LOTS 122 & 123 IS AUTOMATICALLY COVERED BY F 03-090. FOREST CONSERVATION FOR THE TEMPORARY GRADING ON A PORTION OF TAX PARCEL 205 HAS BEEN PROVIDED ALSO BY F 03-090, BY INCLUDING A "DEBIT" ENTRY OF 0.86 ACRES ON THE MASTER FOREST CONSERVATION CHART IN F03-090. AT THE POINT THAT AREA IS RECORDED IN THE FUTURE, IT WILL HAVE ALREADY SATISFIED FOREST CONSERVATION REQUIREMENTS.
 - AFFORESTATION AND LANDSCAPE PLANTINGS ON OPEN SPACE LOTS 122 AND 123 REQUIRED BY F 03-090, WILL BE INSTALLED AFTER FINE GRADING AND STABILIZATION OF THOSE AREAS DISTURBED UNDER THIS PLAN. LANDSCAPING REQUIREMENTS FOR THE AREAS WITHIN THE LIMIT OF DISTURBANCE ON P/O TAX PARCEL 205 WILL BE PROVIDED AT EITHER FINAL PLAN OR SITE DEVELOPMENT PLAN STAGE AS THE PHASE IS DEVELOPED PER S 01-17.
 - HPIPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE ASTM/AASHTO SPECS.

SHEET INDEX

- COVER SHEET
- SITE PLAN FOR MASS GRADING AND PATHWAY (1"=50')
- SEDIMENT CONTROL AND PATHWAY DETAILS
- SEDIMENT CONTROL NOTES

SITE ANALYSIS

TOTAL PROJECT AREA: 507.9 ACRES
 TOTAL AREA OF PLAN SUBMISSION: 8.65 ACRES
 NON-BUILDABLE PARCEL "C", OS 122 & OS 123: 2.95 ACRES (OPEN SPACE)
 P/O TAX PARCEL 205: 5.70 ACRES (FUTURE COMMERCIAL)
 LIMIT OF DISTURBED AREA: 6.80 ACRES
 ZONING: MXD-3
 EXISTING LAND USE: FARMLAND
 PROPOSED LAND USE: OPEN SPACE & FUTURE COMMERCIAL
 PROPOSED IMPROVEMENTS: MASS GRADING AND PATHWAY CONSTRUCTION

NON-BUILDABLE PARCEL "C" AND OPEN SPACE LOTS 122 & 123 (MIDTOWN AREA I) ARE PART OF F 03-090.
 THE TEMPORARY LIMIT OF DISTURBANCE SHOWN ON PART OF TAX PARCEL 205 IS A PORTION OF THE AREAS IDENTIFIED BY S 01-17 AS FUTURE ANNUAL PHASE 6 (ALLOCATION YEAR 2009). THIS AREA IS SHOWN AS PHASE 2 STAGE 1 ON THE P.D.P.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 8/12/03
 Director Date
 [Signature] 8/12/03
 Chief, Division of Land Development Date
 [Signature] 8-7-03
 [Signature] Date
 [Signature] 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 20886
 TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

PREPARED FOR:
 C & R Maple Lawn, Inc., et. al.
 Suite 410, Woodholme Center
 1829 Reisterstown Road
 Baltimore, MD 21208
 Attn: Charlie O'Donovan
 410-484-8400

COVER SHEET
 SITE DEVELOPMENT PLAN FOR MASS GRADING AND PATHWAY CONSTRUCTION
MAPLE LAWN FARMS
 P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space 122 & 123, Non-Buildable Parcel 'C'
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

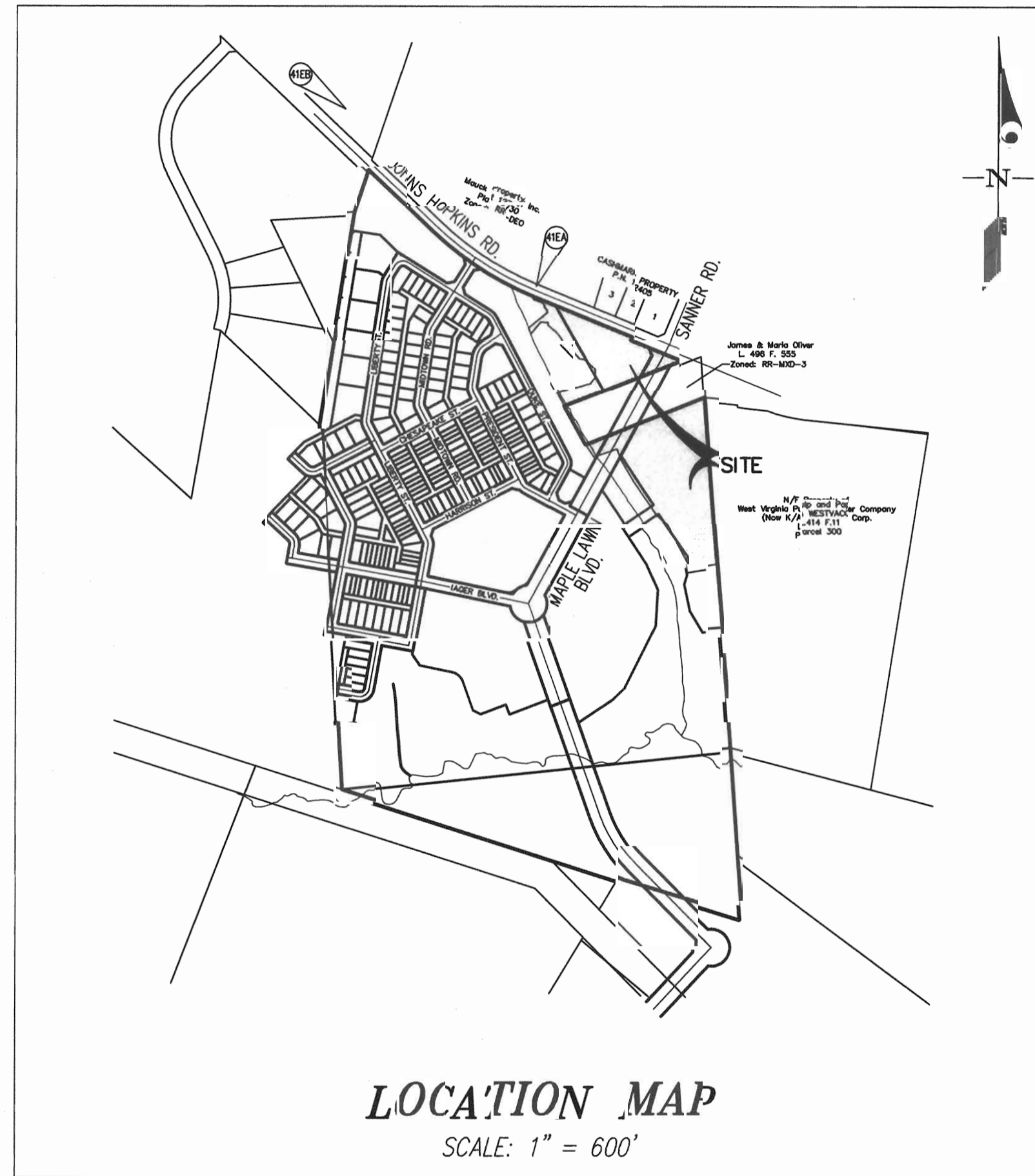
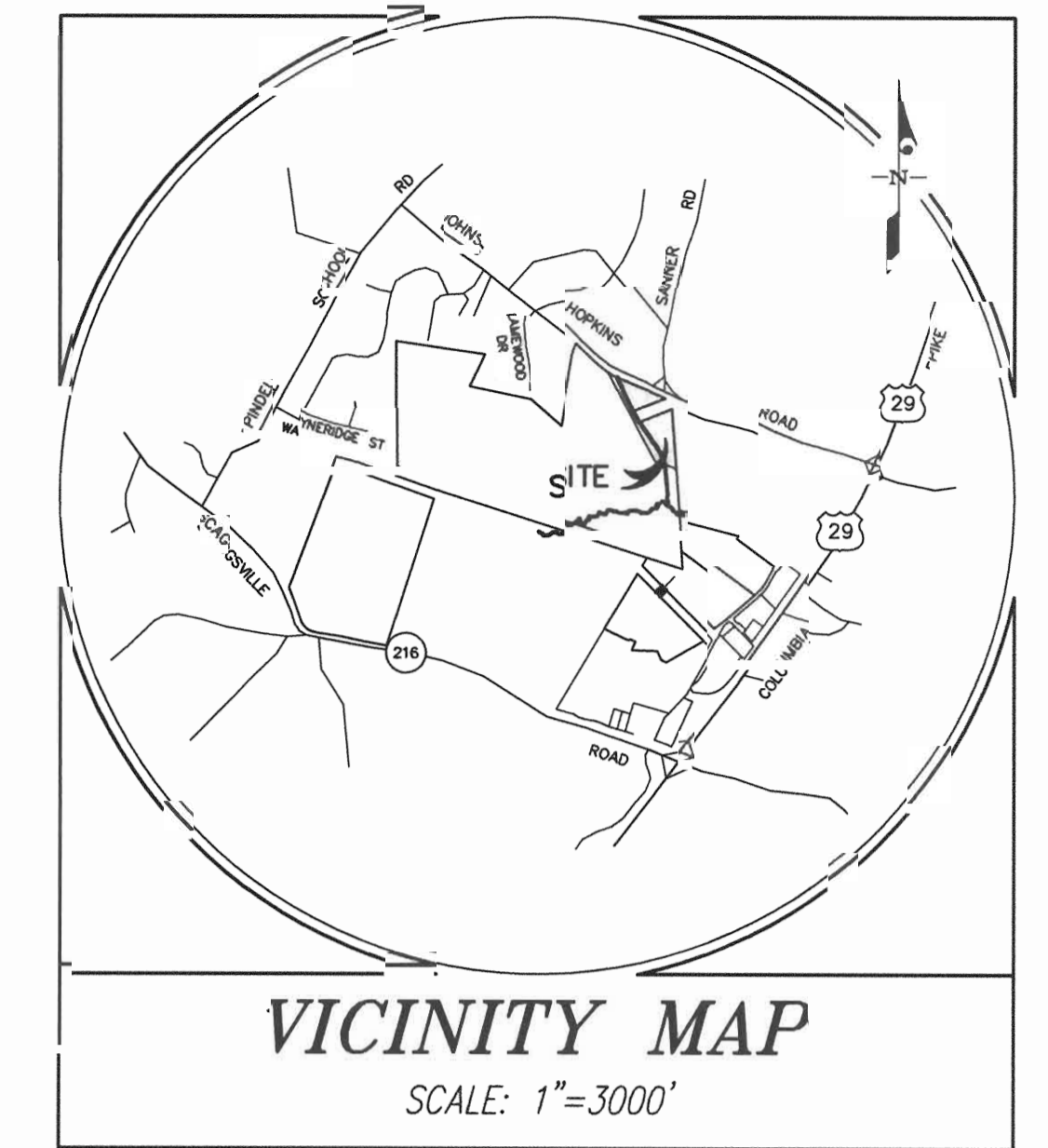
SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	MXD-3	02001
DATE	TAX MAP - GRID	SHEET
JUNE, 2003	41:15,16,21,&22	1 OF 4

ADDRESS CHART					
PARCEL NUMBER	STREET ADDRESS				
121, 205	1131 JOHNS HOPKINS ROAD				
SUBDIVISION NAME: MAPLE LAWN FARMS					
PLAT, L.F.	ZONE	TAX MAP	BLOCK	ELEC. DIST.	PARCEL
P. 121 (L. 4213 F. 95) P. 205 (L. 894 F. 596) 10005-10002	MXD-3	41	15, 16, 21, & 22	5	P. 121, & 205
COUNTY FILE # SDP 03-140					

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\Mg-SitePlans\02001MGI.DWG 07/31/2003 12:05:17 PM EDT

- GENERAL NOTES**
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
 - PROJECT BACKGROUND:
LOCATION: JOHNS HOPKINS ROAD
TAX MAP: 41-15, 16, 21, & 22
ZONING: MXD-3
ELECTION DISTRICT: 5
GROSS AREA OF TRACT: 507.9 ACRES
AREA OF SUBMISSION: 8.65 ACRES
 - SEE DEPARTMENT OF PLANNING & ZONING FILE NUMBERS: S 01-17, ZB-995M, PB-353, P-03-01, F-03-090, WP 03-02, AND WP 03-120.
 - THE TOPOGRAPHY SHOWN WAS TAKEN FROM AERIAL TOPOGRAPHY PREPARED DURING MARCH 1997 BY SDI.
 - HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 41EA & 41 EB.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / DIVISION OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.
MISS UTILITY 1-800-257-7777
VERIZON 1-800-446-5266
HOWARD COUNTY BUREAU OF UTILITIES 410-313-4900
AT&T CABLE LOCATION DIVISION 393-3553
BALTIMORE GAS & ELECTRIC CO. 410-850-4620 & 410-787-9068
 - SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH "1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL."
 - ZONING: SITE IS BEING DEVELOPED UNDER MXD-3 REGULATIONS, PER ZB995M, WHICH WAS APPROVED ON 2/8/01. UNDERLYING ZONING IS RR.
 - THE CEMETERY INVENTORY MAPS DO NOT SHOW ANY CEMETERIES WITHIN THE PROJECT LIMITS.
 - SOILS DATA WAS TAKEN FROM THE SOIL SURVEY OF HOWARD COUNTY, MARYLAND ISSUED JULY 1963.
 - BOUNDARY INFORMATION SHOWN IS BASED UPON A FIELD SURVEY PREPARED BY GUTSCHICK, LITTLE, AND WEBER, P.A. ON OR ABOUT JUNE, 2001.
 - WETLAND DELINEATION BY EXPLORATION RESEARCH, INC. APPROVED BY THE CORPS OF ENGINEERS JD 63787-3 ON 5/14/98. NOTICE OF INTENT TO ISSUE A PERMIT IS COVERED BY MDE TRACKING #01-NI-0344/20015421.
 - THE 100-YEAR FLOOD PLAIN LIMITS WERE DETERMINED BY THE FLOODPLAIN STUDY PREPARED BY GUTSCHICK, LITTLE AND WEBER, P.A. AS PART OF THE COMPREHENSIVE SKETCH PLAN AND P 03-01.
 - EXISTING UTILITIES WERE TAKEN FROM AVAILABLE HOWARD COUNTY RECORDS.
 - PERENNIAL STREAM BUFFERS ARE DETERMINED BY LAND USE ADJOINING THE OPEN SPACE (i.e. EMPLOYMENT = 50' BUFFER, RESIDENTIAL = 75' BUFFER). ALL USES ADJOINING AN INTERMITTENT STREAM = 50' BUFFER.
 - AS A CONSEQUENCE OF THE SKETCH PLAN APPROVAL PRIOR TO NOVEMBER 15, 2001, THIS PROJECT IS GRANDFATHERED TO THE FOURTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
 - PHASING FOR THIS PROJECT IS IN ACCORDANCE WITH THE DECISION AND ORDER FOR ZONING BOARD CASE NO. ZB-995M AND THE DECISION AND ORDER FOR PB CASE NO. 353 (COMPREHENSIVE SKETCH PLAN, S-01-17).
 - NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, AND 100 YEAR FLOODPLAIN AREAS EXCEPT AS PERMITTED UNDER WP-03-120, WHICH WAS GRANTED ON JULY 29, 2003, ALLOWING THE INSTALLATION OF TEMPORARY STREAM CROSSINGS FOR PURPOSES OF EARTH MOVING OPERATIONS. THE PATHWAY AND FOOTBRIDGE CONSTRUCTION DO NOT REQUIRE A WAIVER SINCE THE PATHWAY IS DEEMED TO BE "NECESSARY DISTURBANCE" TO CONSTRUCT A SAFE PATHWAY FROM MIDTOWN AREA 1 TO THE MAPLE LAWN BOULEVARD/JOHNS HOPKINS ROAD INTERSECTION UNDER F-03-090.
 - WAIVER PETITION WP 03-02 WAS GRANTED ON OCTOBER 11, 2002 TO ALLOW THE FOLLOWING IN THE PHASE II PORTION OF MAPLE LAWN FARMS:
 - FILLING IN THE FLOODPLAIN IN ORDER TO CONSTRUCT A ROADWAY.
 - ELIMINATE TRUNCATIONS AT ROAD INTERSECTIONS.
 - GRADING WITHIN A 75' STREAM BUFFER.
 - FOREST CONSERVATION FOR NON-BUILDABLE PARCEL "C" AND FOR OPEN SPACE LOTS 122 & 123 IS AUTOMATICALLY COVERED BY F 03-090. FOREST CONSERVATION FOR THE TEMPORARY GRADING ON A PORTION OF TAX PARCEL 205 HAS BEEN PROVIDED ALSO BY F 03-090, BY INCLUDING A "DEBIT" ENTRY OF 0.86 ACRES ON THE MASTER FOREST CONSERVATION CHART IN F03-090. AT THE POINT THAT AREA IS RECORDED IN THE FUTURE, IT WILL HAVE ALREADY SATISFIED FOREST CONSERVATION REQUIREMENTS.
 - AFFORESTATION AND LANDSCAPE PLANTINGS ON OPEN SPACE LOTS 122 AND 123 REQUIRED BY F 03-090, WILL BE INSTALLED AFTER THE GRADING AND STABILIZATION OF THOSE AREAS DISBURSED UNDER THIS PLAN. LANDSCAPING REQUIREMENTS FOR THE AREAS WITHIN THE LIMIT OF DISTURBANCE ON P/O TAX PARCEL 205 WILL BE PROVIDED AT EITHER FINAL PLAN OR SITE DEVELOPMENT PLAN STAGE AS THE PHASE IS DEVELOPED PER S 01-17.
 - HPIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE ASTM/AASHTO SPECS.

SITE PLAN FOR MASS GRADING AND PATHWAY CONSTRUCTION MAPLE LAWN FARMS MIDTOWN DISTRICT



SHEET INDEX

- COVER SHEET
- SITE PLAN FOR MASS GRADING AND PATHWAY (1"=50')
- SEDIMENT CONTROL AND PATHWAY DETAILS
- SEDIMENT CONTROL NOTES

SITE ANALYSIS

TOTAL PROJECT AREA: 507.9 ACRES
 TOTAL AREA OF PLAN SUBMISSION: 8.65 ACRES
 NON-BUILDABLE PARCEL "C", OS 122 & OS 123: 2.95 ACRES (OPEN SPACE)
 P/O TAX PARCEL 205: 5.70 ACRES (FUTURE COMMERCIAL)
 LIMIT OF DISTURBED AREA: 8.65 ACRES
 ZONING: MXD-3
 EXISTING LAND USE: FARM AND
 PROPOSED LAND USE: OPEN SPACE & FUTURE COMMERCIAL
 PROPOSED IMPROVEMENTS: MASS GRADING, FOOTBRIDGE AND PATHWAY CONSTRUCTION.

BENCHMARKS

41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

LEGEND

	EARTH DIKE
	SUPER SILT FENCE
	LIMIT OF DISTURBANCE
	DRAINAGE DIVIDE
	WETLAND BUFFER
	STREAM BUFFER
	FLOODPLAIN
	EX. CONTOUR
	PROP. CONTOUR
	LIMIT OF SUBMISSION
	EROSION CONTROL MATTING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: [Signature] Date: 8/12/03
 Chief, Division of Land Development: [Signature] Date: 8/12/03
 [Signature] Date: 8-7-03



ADULTS CHART	
PARCEL NUMBER	STREET ADDRESS
121, 205	1113 JOHNS HOPKINS ROAD
SUBDIVISION NAME: MAPLE LAWN FARMS	
SECTION/AREA: MIDTOWN	
PLAT/L.F. P. 121 & 205	
PLAT/L.F. P. 121 & 205	CENSUS TRACT 5051.02

COUNTY FILE # SDP 03-140

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

DATE: 8/12/03	REVISION: 1 Include footbridge construction as part of proposed improvements.	DEV:	BY:	APP'R:

PREPARED FOR:
 G & R Maple Lawn, Inc., et. al.
 Suite 410, Woodholme Center
 1829 Reisterstown Road
 Baltimore, MD 21208
 Attn: Charlie O'Donovan
 410-484-8400

COVER SHEET
 SITE DEVELOPMENT PLAN FOR MASS GRADING AND PATHWAY CONSTRUCTION
MAPLE LAWN FARMS
 P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space 122 & 123, Non-Buildable Parcel "C"
 MIDTOWN DISTRICT No. 5

SCALE: AS SHOWN	ZONING: MXD-3	G. L. W. FILE NO.: 02001
DATE: JUNE, 2003	TAX MAP - GRID: 41:15,16,21,&22	SHEET: 1 OF 4

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\Mg-Siteplans\02001MGI.DWG 07/31/2003 12:05:17 PM EDT

SDP 03-140

NOTE: 1. WHERE THE L.O.D. IS NOT SHOWN, THE SEDIMENT CONTROL DEVICES WILL INDICATE THE LIMITS OF DISTURBANCE.
 2. CONTRACTOR MUST TURN ALL DOWNSTREAM ENDS OF SILT FENCE/SUPER SILT FENCE UPHILL 2 FEET IN ELEVATION AGAINST BOTH EXISTING AND PROPOSED CONTOURS.

ENGINEER'S CERTIFICATE

DEVELOPER'S/BUILDER'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."

"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]
Date: 7-31-03

[Signature]
Signature of Developer/Builder
Date: 7-31-03

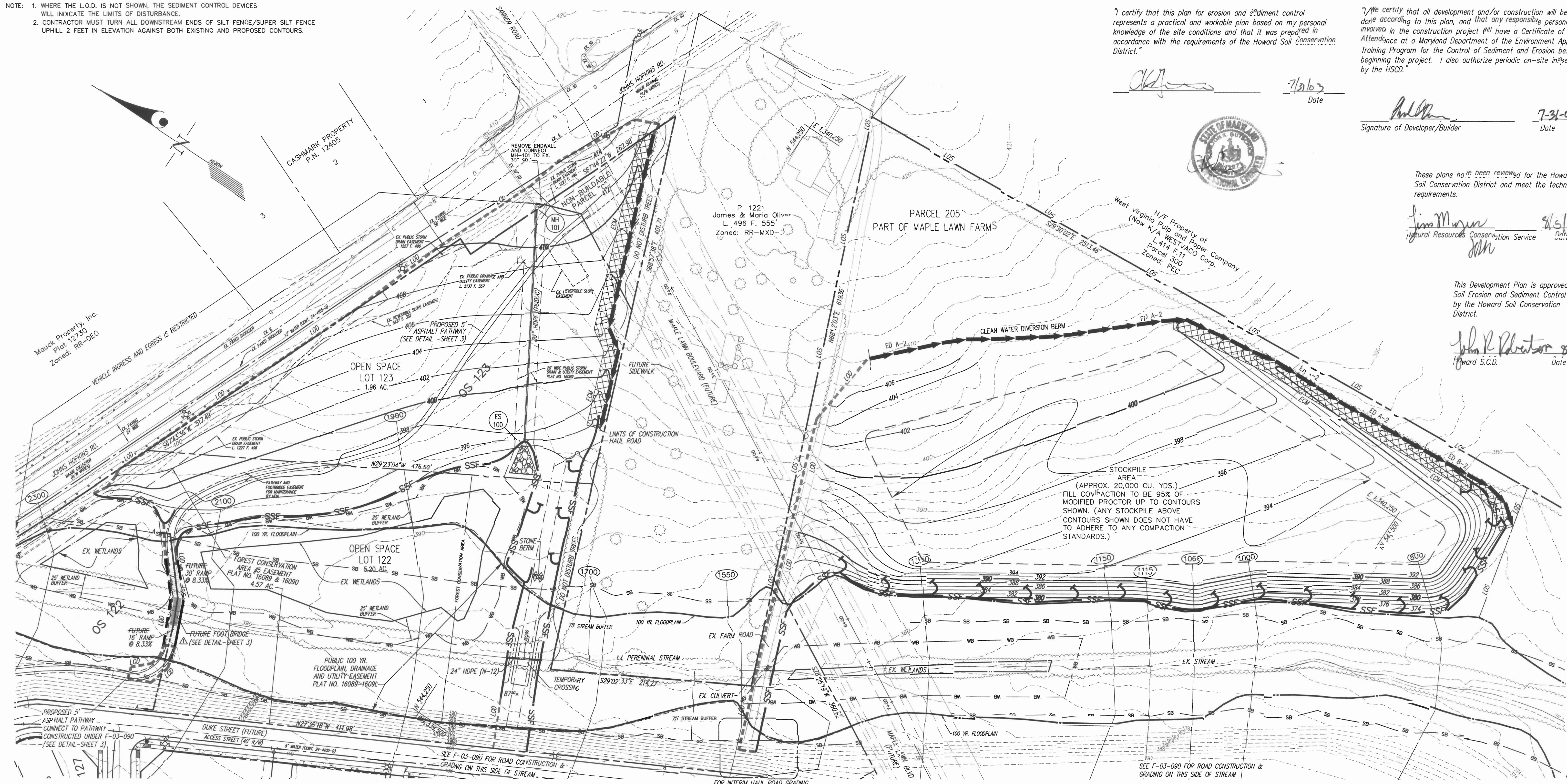


These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

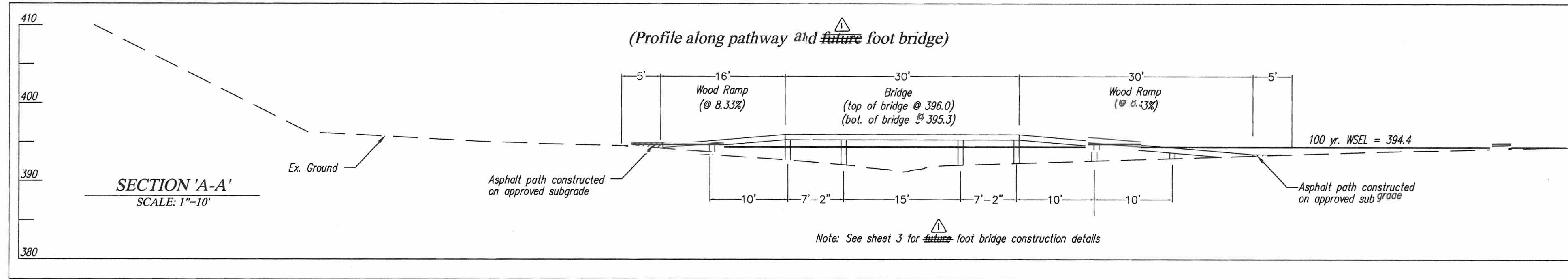
[Signature]
Natural Resources Conservation Service
Date: 8/5/03

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

[Signature]
Howard S.C.D.
Date: 8/5/03



NOTE: FOOT BRIDGE AND ADJOINING RAMPS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FOOT BRIDGE IS NOT PROPOSED UNDER THIS PLAN.



100-YEAR FLOODPLAIN INFORMATION	
CROSS-SECTION NO.	WATER SURFACE ELEV.
23+00	397.4
21+00	393.1
19+00	390.7
17+00	386.9
15+50	384.7
13+50	380.9
11+50	378.3
11+15	378.3
10+50	376.9
10+20	376.1
8+30	373.0

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] Director
[Signature] Chief, Division of Land Development
[Signature] Chief, Development Engineering Division

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

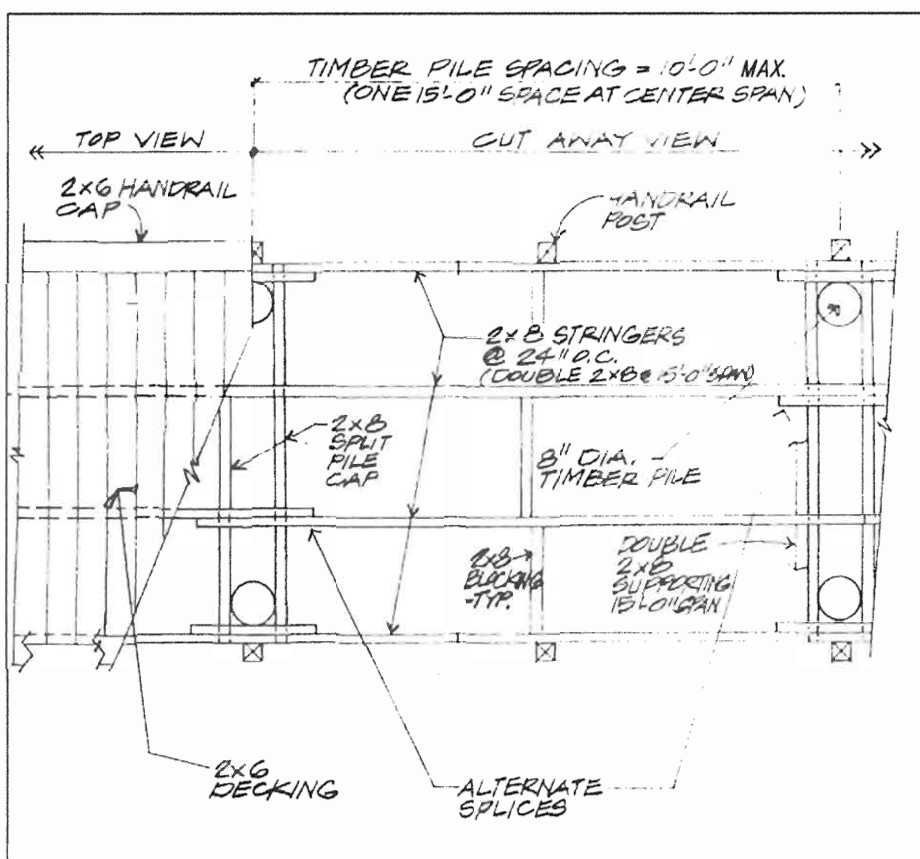
DATE	REVISION	BY	APP'R
01/12/03	Include footbridge construction as part of proposed improvements.	DEV	

PREPARED FOR:
 G & R Maple Lawn, Inc. et. al.
 Suite 410, Woodholme Center
 1829 Reisterstown Road
 Baltimore, MD 21208
 Attn: Charlie O' Donovan
 410-484-8400

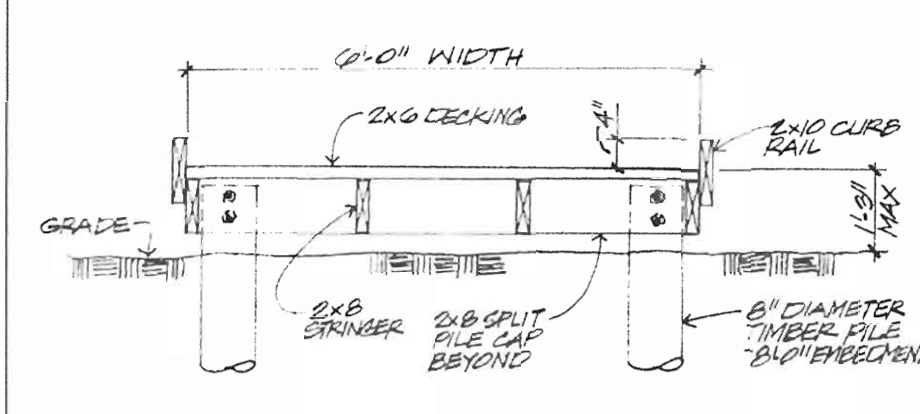
SITE DEVELOPMENT PLAN FOR MASS GRADING AND PATHWAY
MAPLE LAWN FARMS
 Midtown District
 P. 121 (L. 42); F. 95; P. 205 (L. 894 F. 396), Open Space Lots 122 & 123, Non-Buildable Parcel

SCALE	ZONING	G. L. W. FILE NO.
1"=50'	MXD-3	02091
DATE	TAX MAP - GRID	SHEET
JUNE, 2003	41:15,16,21&22	2 OF 4

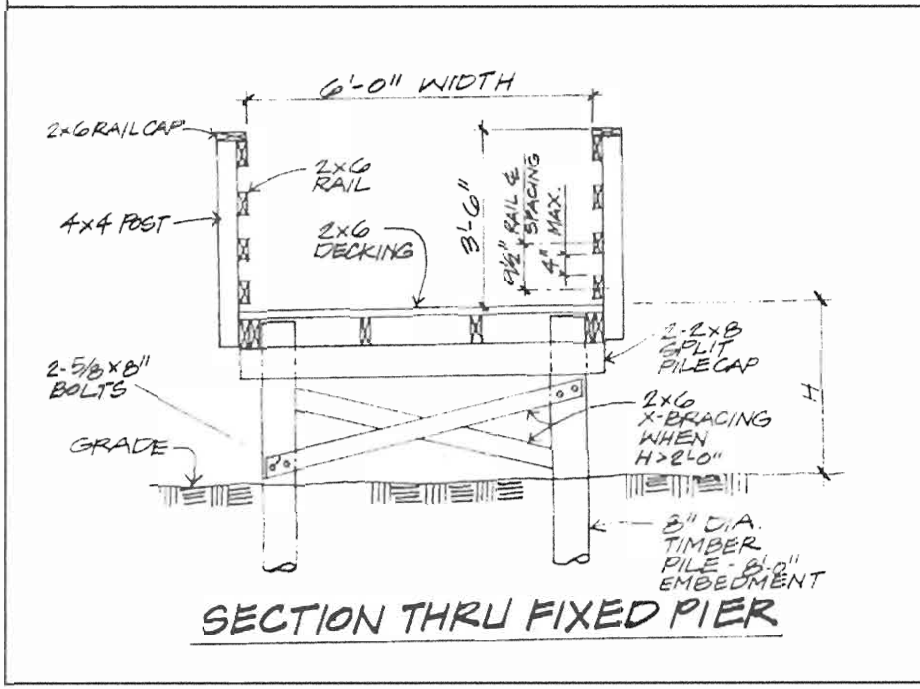
△ FUTURE FOOT BRIDGE DETAIL



FIXED PIER FRAMING PLAN



SECTION THRU WALKWAY DECK



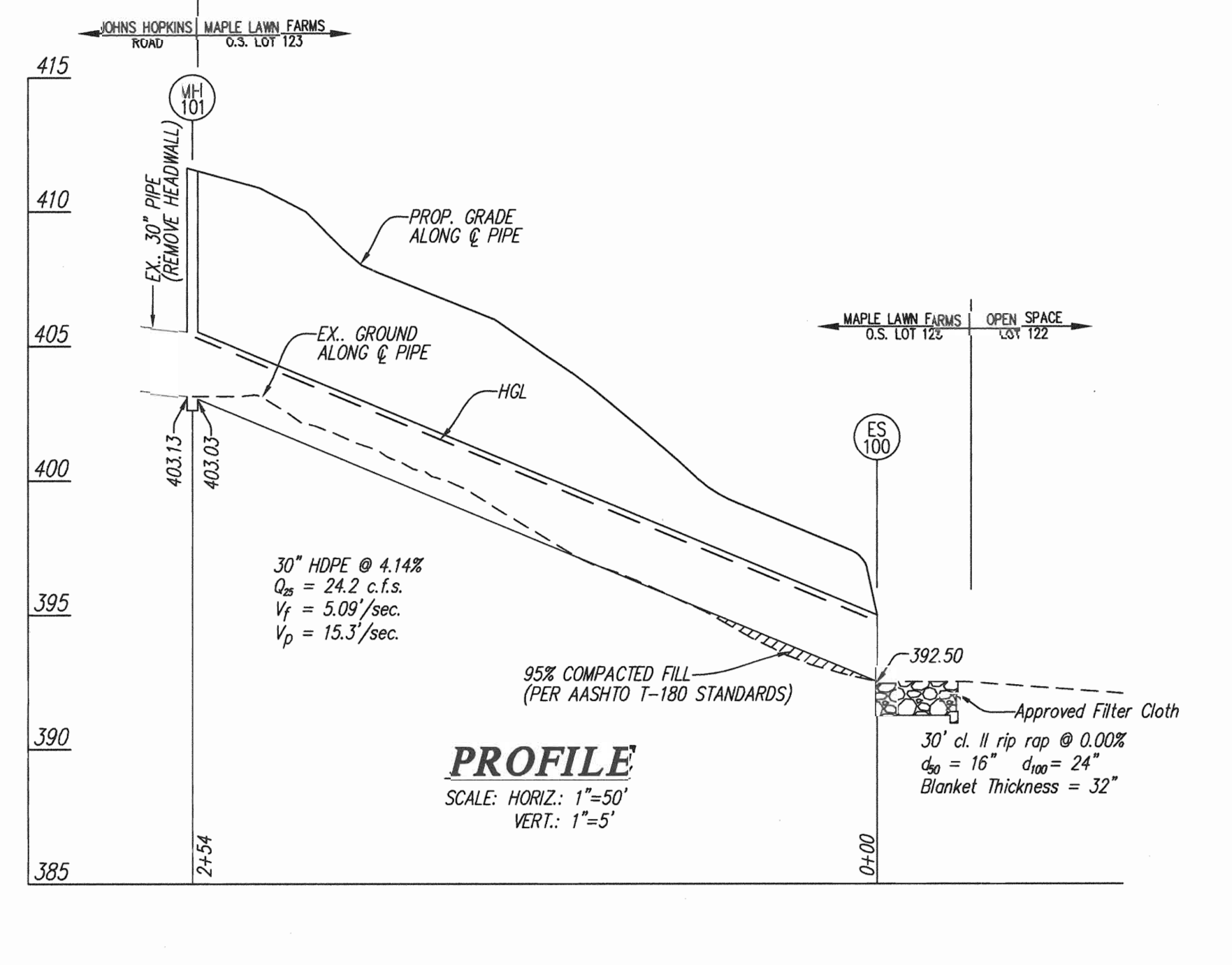
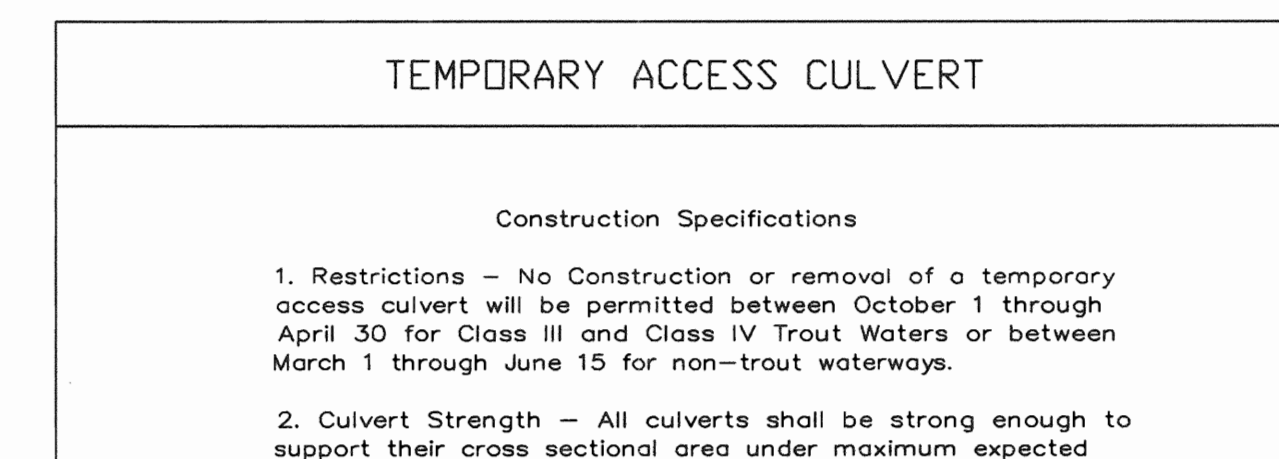
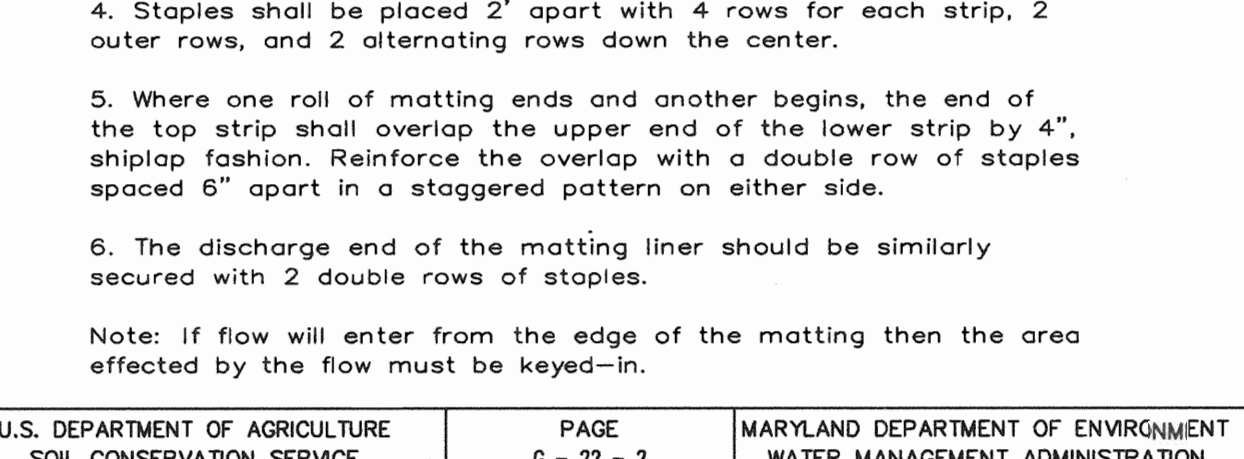
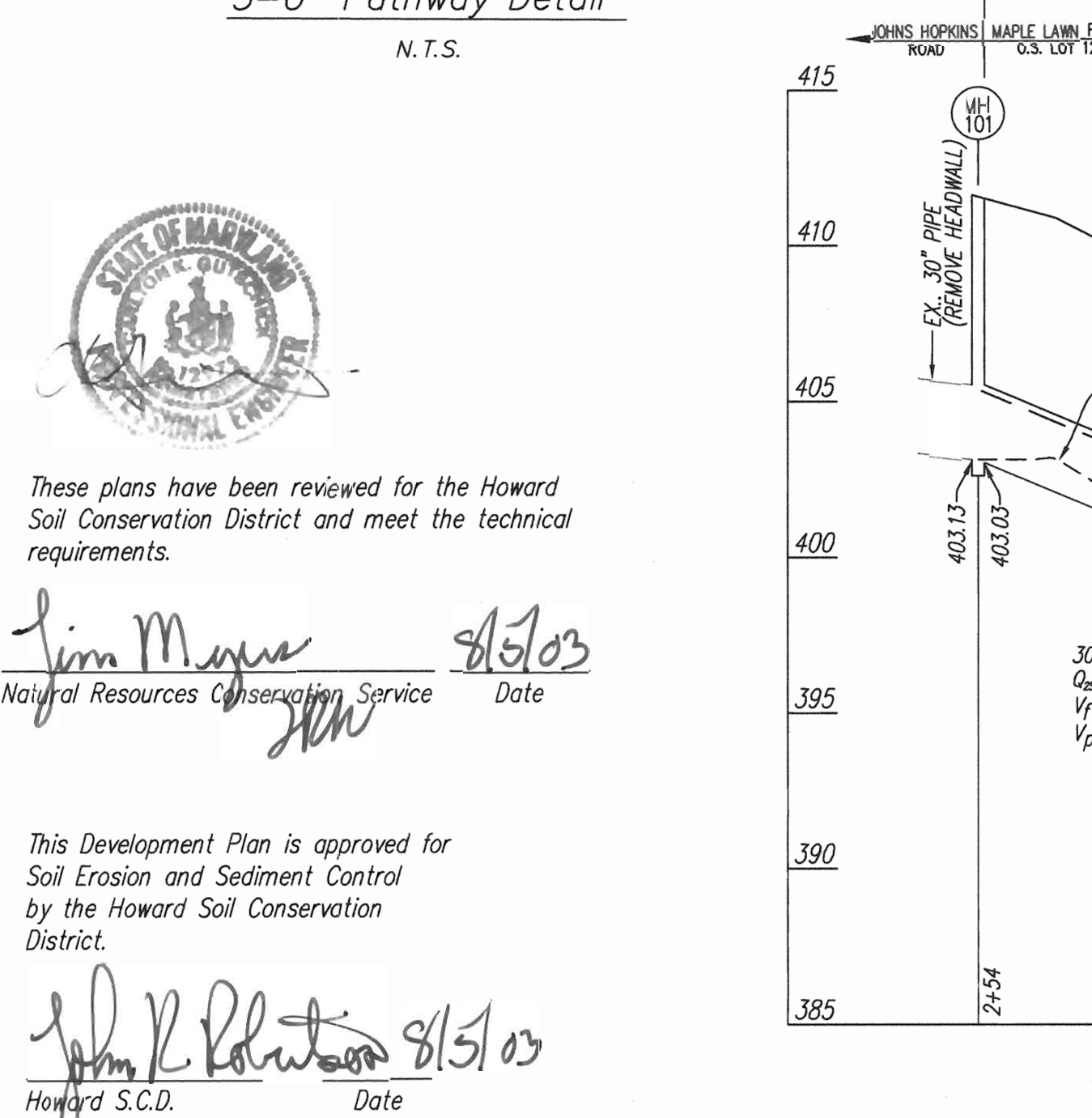
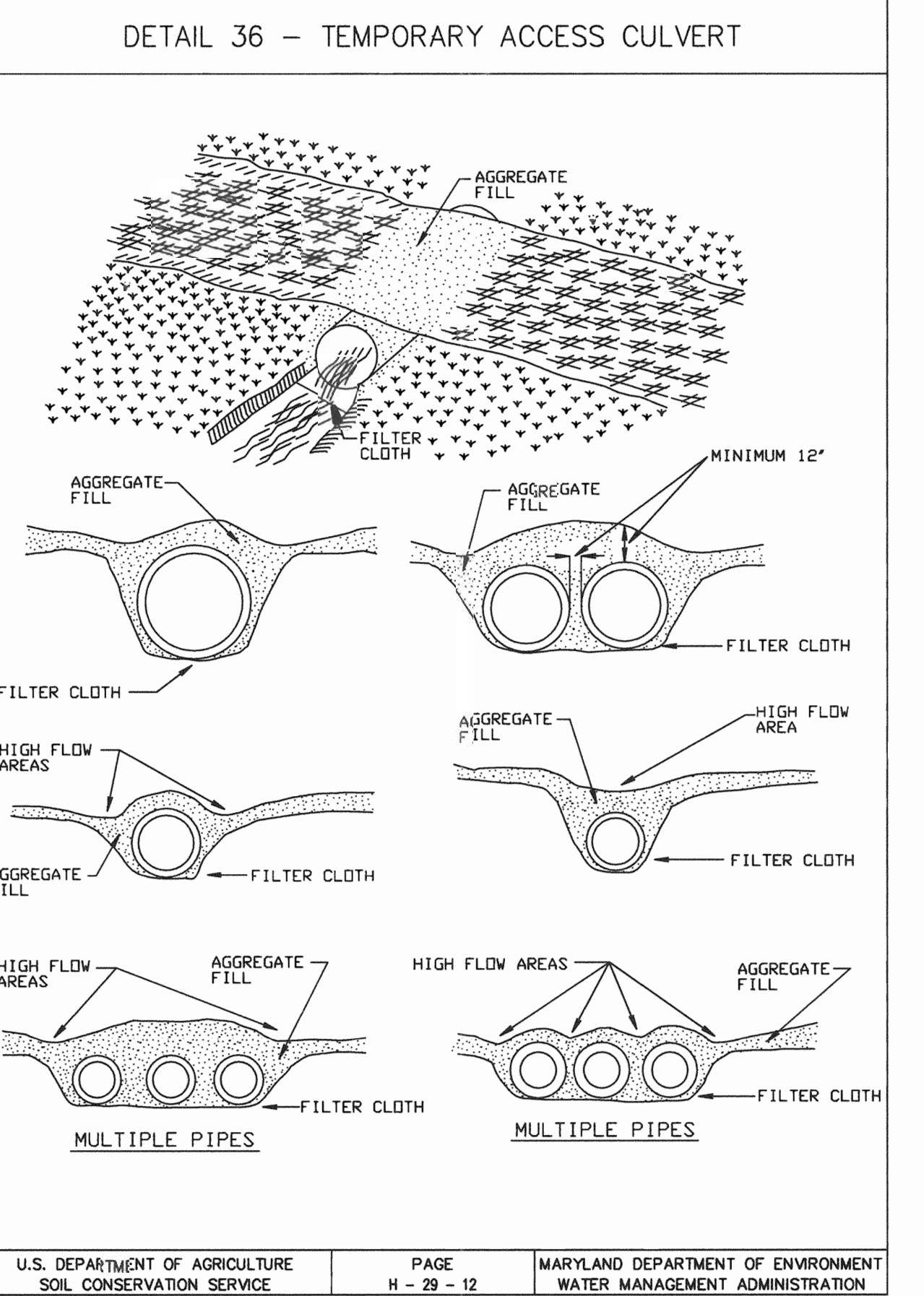
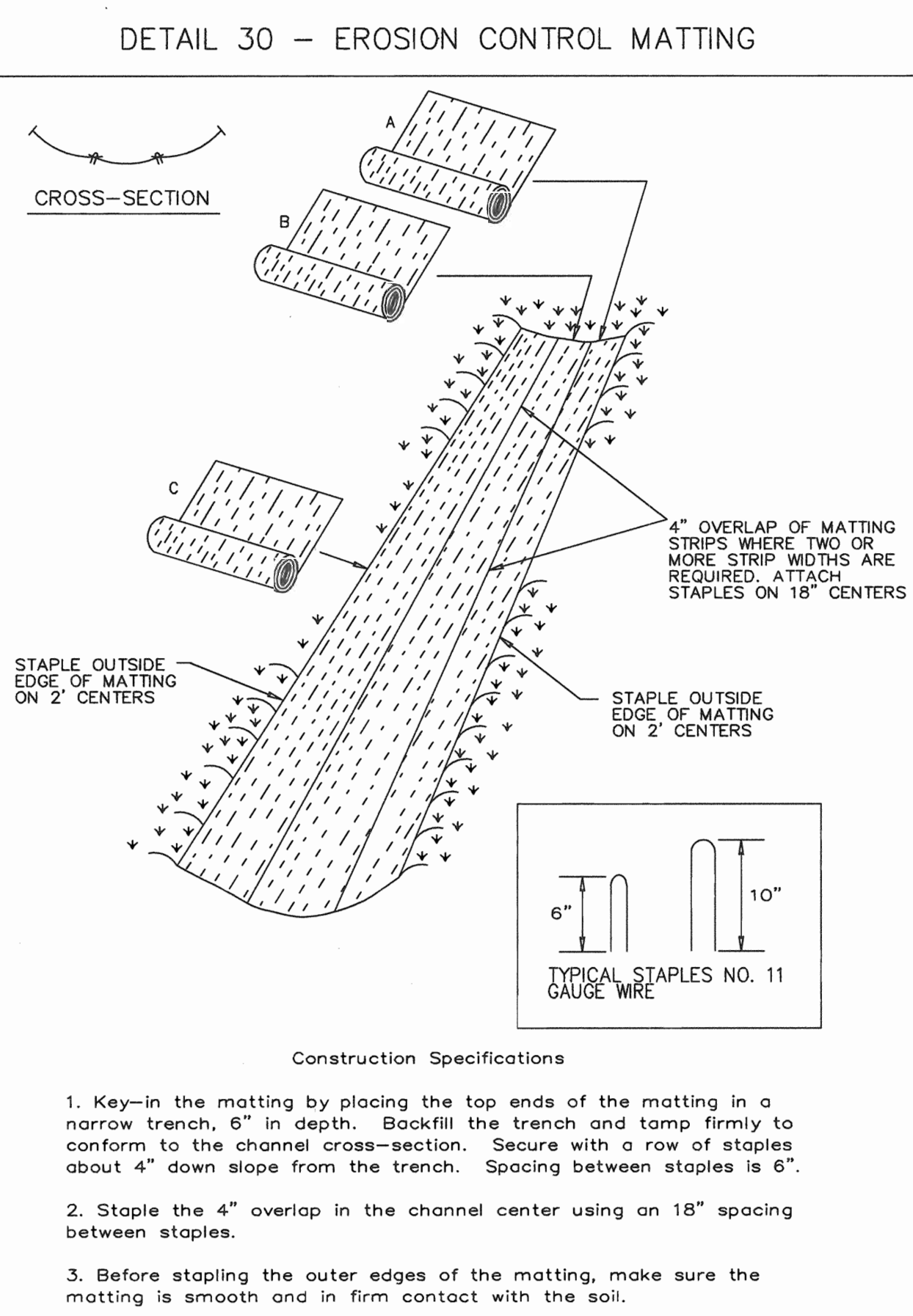
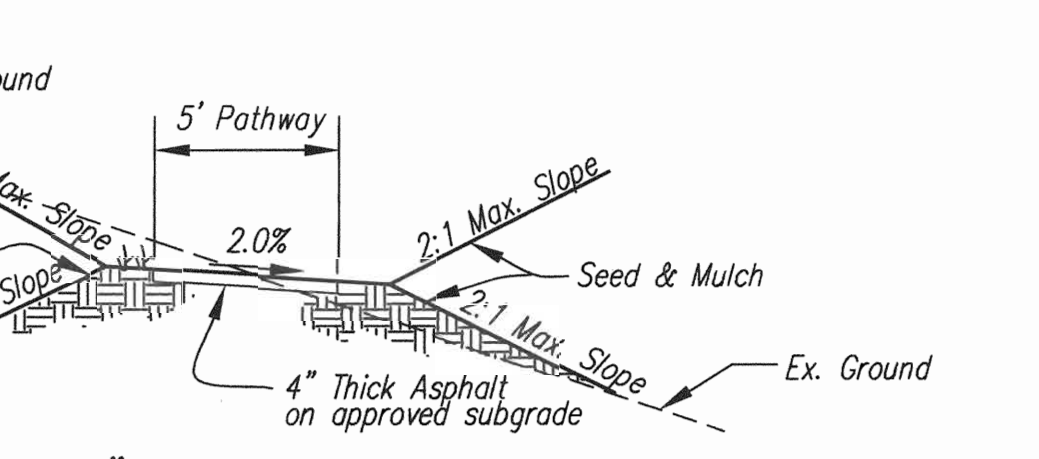
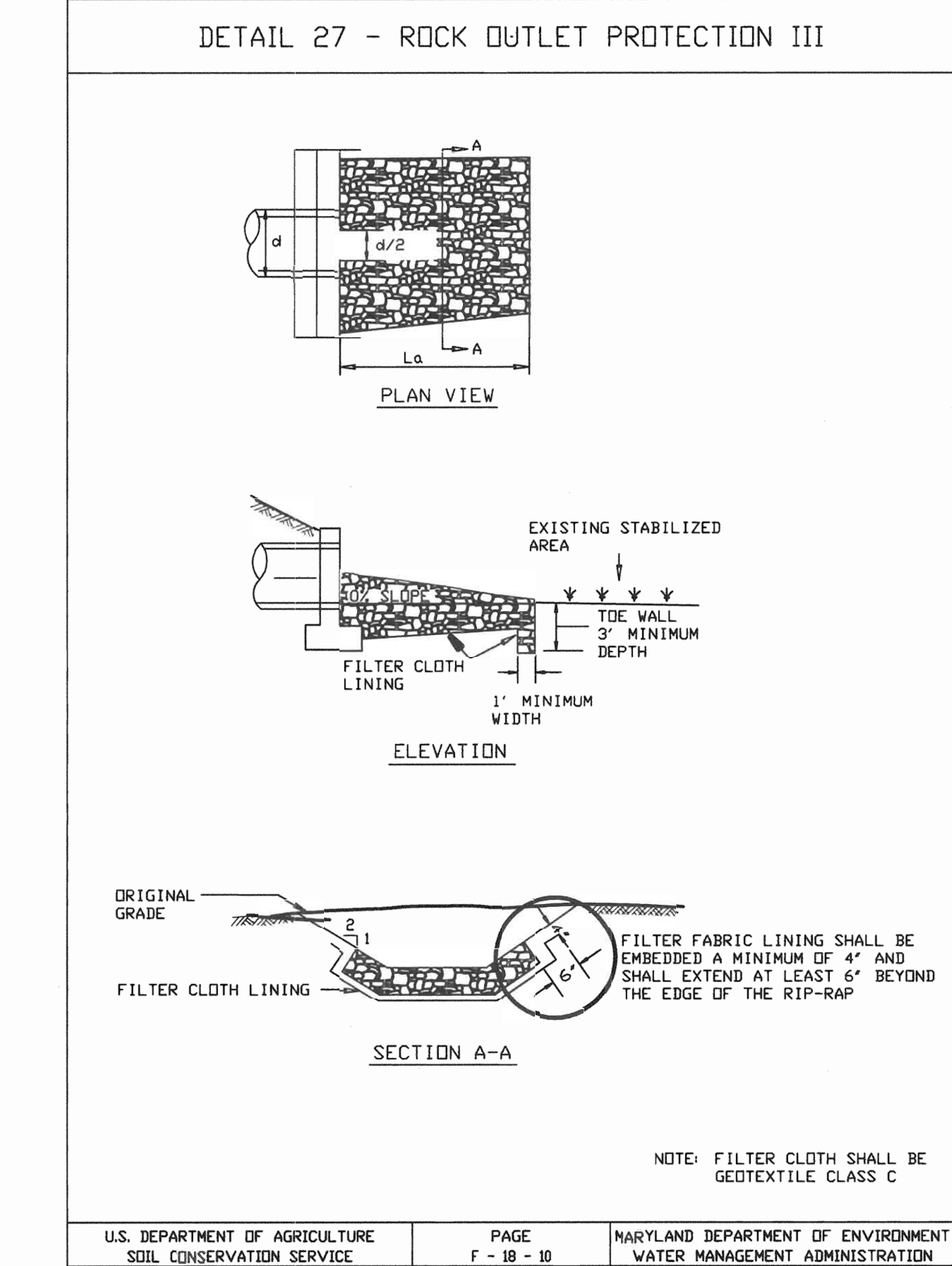
SECTION THRU FIXED PIER

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: 7-31-03

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: *[Signature]*
 Date: 7/31/03



STRUCTURE SCHEDULE

NO	TYPE	WIDTH (INSIDE)	TOP ELEVATION		INVERT ELEVATION		STD. DETAIL	LOCATIONS	REMARKS
			UPPER	LOWER	UPPER	LOWER			
ES-100	END SECTION	---	---	---	---	---	392.50	N 544,315 E 1,339,800	
MH-101	STANDARD MANHOLE	4'-0"	---	---	411.55	403.03	HO. CO. G 5.12	N 544,444 E 1,340,016	

△ 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.
 △ STANDARD END SECTION SIMILAR TO HOWARD COUNTY DETAIL SD 5.61 BY ADS, HANCOCK, OR AN APPROVED EQUAL.

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONVILLE OFFICE PARK
 BURTONVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
01/12/03	Remove "Future" and include footbridge construction as part of proposed improvements.	DEV	

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

SEDIMENT CONTROL AND PATHWAY DETAILS
MAPLE LAWN FARMS
 Midtown District
 P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space Lots 122 & 123, Non-Buildable Parcel 'C'
 ELECTION DISTRICT No. 5

SCALE	ZONING	G. L. W. FILE NO.
NO SCALE	MXD-3	02001
DATE	TAX MAP - GRID	SHEET
JUNE, 2003	41: 15, 16, 21 & 22	3 OF 4

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\Mg-Siteplans\02001MG3.DWG 07/31/2003 12:07:23 PM EDT

SEDIMENT CONTROL NOTES

- 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) 131-1880
- 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.
- 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.
- 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.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 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.
- 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.
- Site Analysis:

Total Area of Site	507.9 Acres
Area Disturbed	6.8 Acres
Area to be roofed or paved	0.1 Acres
Area to be vegetatively stabilized	6.7 Acres
Total Cut	1,000 Cu. Yds.
Total Fill	85,000 Cu. Yds.
Off-site waste/borrow area location:	84,000 coming from F-03-090 grading on west side of stream
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
- 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.
- 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
- Preferred - Apply 2 tons per acre dolomitic limestone (92 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 (9 lbs/1000 sq ft).
 - Acceptable - Apply 2 tons per acre dolomitic limestone (92 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 (70 to 90 lbs/1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet 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 reseedings.

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 (70 to 90 lbs/1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 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

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supply of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- 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

- 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.
 - 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.
 - Topsoil must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - 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 1,000 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.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - 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.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt greater than 500 parts per mill shall not be used.
 - 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.
- Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
 - Topsoil Application
 - 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.
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
 - 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.
 - 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.
 - 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:
 - 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:
 - 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.

- Composted sludge shall contain at least 1 percent nitrogen, 1.5 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.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - 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 1973.

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.

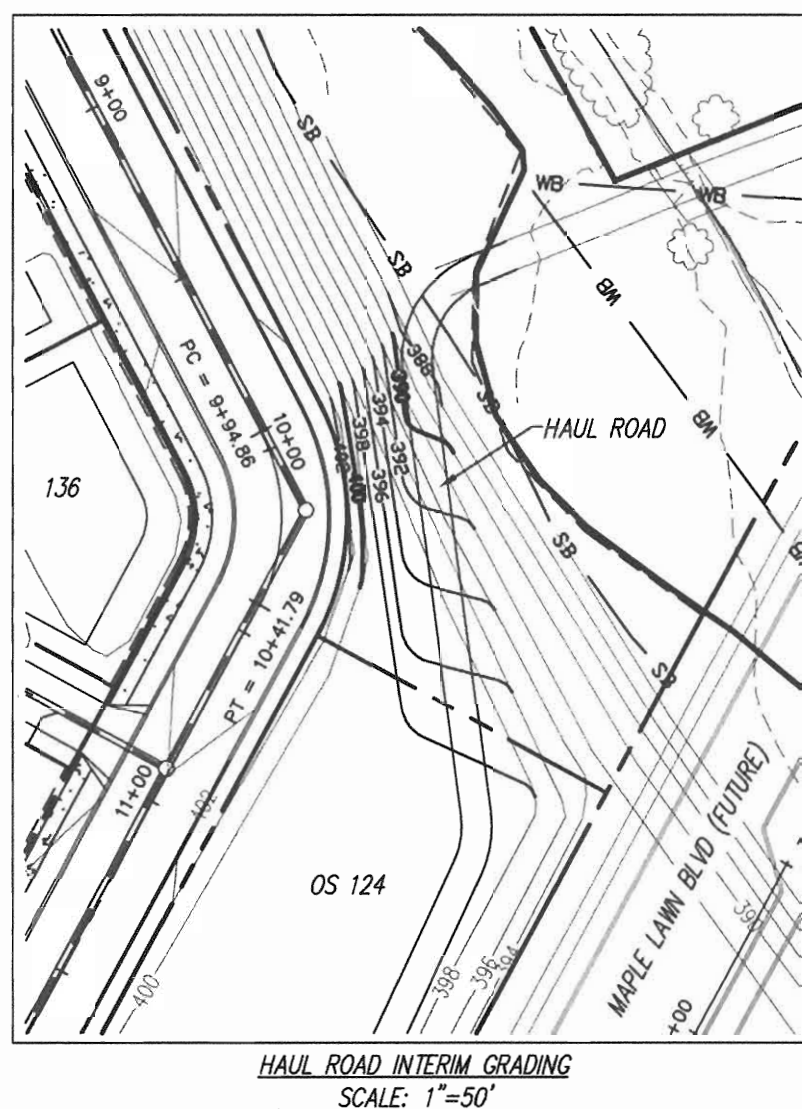
Specifications

Temporary Methods

- Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
- Vegetative Cover - See standards for temporary vegetative cover.
- 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 spaces about 12" apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
- 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.
- 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.
- Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods

- 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.
- Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.
- Stone - Cover surface with crushed stone or coarse gravel.



SEQUENCE OF CONSTRUCTION

- Obtain grading permit and MDE permit. (1 week)
 - Arrange for on-site pre-construction meeting. (1 day)
 - Install perimeter controls. (1 month)
 - Install new temporary stream crossing. (1 day)
 - Perform any maintenance required on existing farm road and stream crossing. If pipe needs replacing, use details for other temporary crossing, including aggregate fill around and over pipe. (2 days)
 - Place minor fill necessary to bring ground up to subgrade for 30" HDPE. (2 weeks)
 - Construct 30" HDPE, manhole, end section and rip-rap. (2 weeks)
 - Grade sites to contours shown. (2 months)
 - Open Space Lots 122 and 123 and non-buildable Parcel "C" - When grading is complete, construct pathway. Install landscaping and afforestation plantings per F-03-90. Stabilize remaining areas. Remove sediment controls with permission of inspector. (2 months)
 - Tax Parcel 205 - Once grading is complete, area will be used as on-going "balance" area during Midtown construction. All areas not actively being used for stockpile activities shall be stabilized in accordance with Temporary Seeding Notes. Once area is no longer being used, remove existing farm road and stream crossing from floodplain and buffers, and stabilize those areas. Stabilize remaining area on parcel. Remove sediment controls with permission of inspector. (24 months)
- II. When the existing stream crossing at the footbridge location is removed, construct bridge per details shown on these plans.
- NOTE: No in-stream work may occur between April and June 15.

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: 7-31-03

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: *[Signature]* Date: 7/31/03

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

Signature: *[Signature]* Date: 8/5/03
Natural Resources Conservation Service

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

Signature: *[Signature]* Date: 8/5/03
Howard S.C.D.

COUNTY FILE # SDP-03-140

SEDIMENT CONTROL NOTES

MAPLE LAWN FARMS Midtown District

P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space Lots 122 & 123, Non-Buildable Parcel "C"

SCALE	ZONING	G. L. W. FILE No.
NO SCALE	MXD-3	02001
DATE	TAX MAP - GRID	SHEET
JUNE, 2003	41: 15, 16, 21 & 22	4 OF 4

HOWARD COUNTY, MARYLAND

ELECTION DISTRICT No. 5

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *[Signature]* Date: 8/14/03
 Chief, Division of Land Development: *[Signature]* Date: 8/14/03
 Chief, Development Engineering Division: *[Signature]* Date: 8-7-03

GLW GUTSCHICK 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: 410-980-1820 DC: 301-989-2524 FAX: 301-421-4188

09/12/03	Revise sequence of construction to include installation of footbridge.	DEV		
DATE	REVISION	BY	APPR.	

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

NOTE: 1. WHERE THE L.O.D. IS NOT SHOWN, THE SEDIMENT CONTROL DEVICES WILL INDICATE THE LIMITS OF DISTURBANCE.
2. CONTRACTOR MUST TURN ALL DOWNSTREAM ENDS OF SILT FENCE/SUPER SILT FENCE UPHILL 2 FEET IN ELEVATION AGAINST BOTH EXISTING AND PROPOSED CONTOURS.

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."

Older
Date 7/31/03

DEVELOPER'S/BUILDER'S CERTIFICATE

"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."

John M. ...
Signature of Developer/Builder
Date 7-31-03

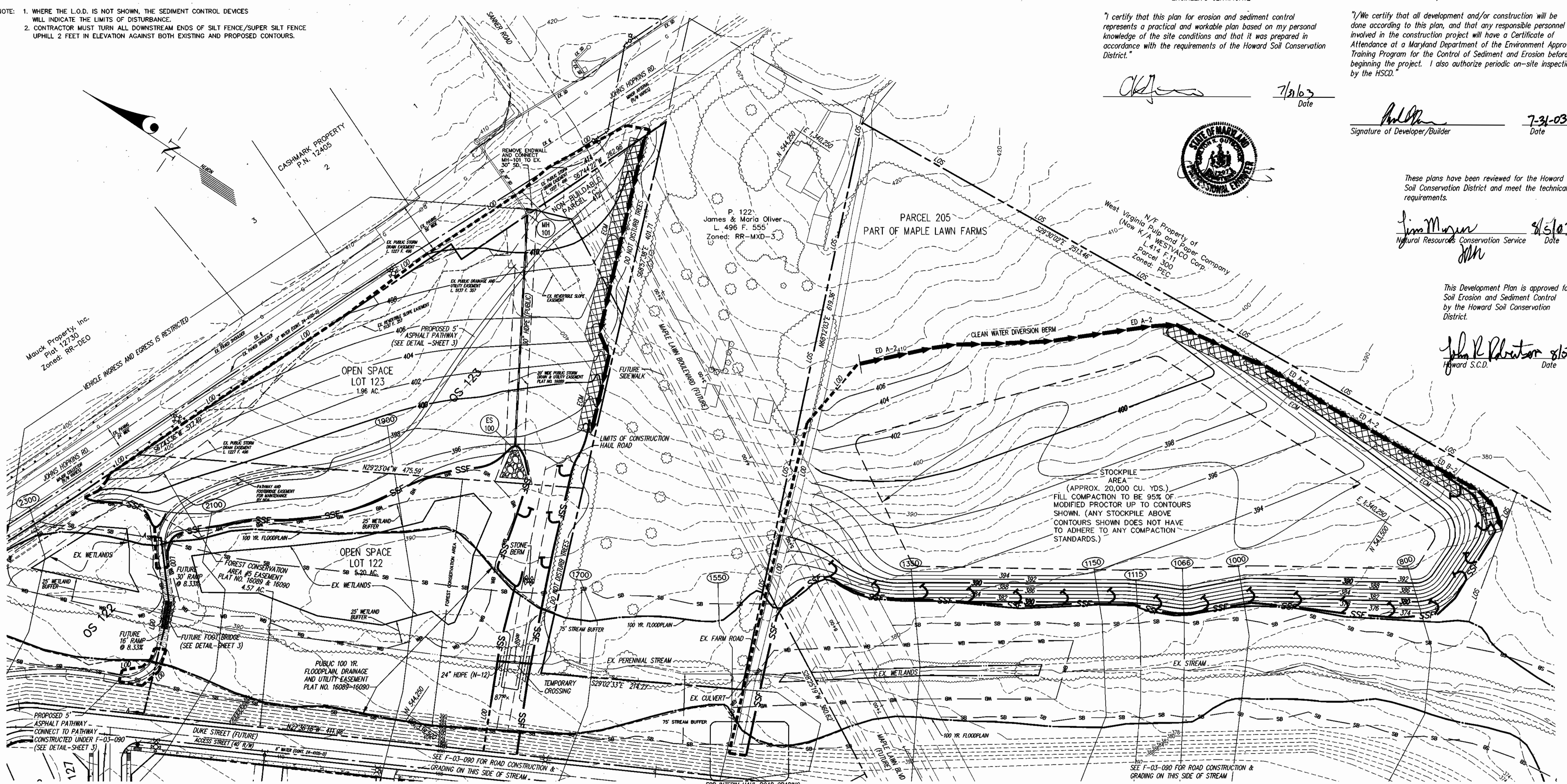


These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

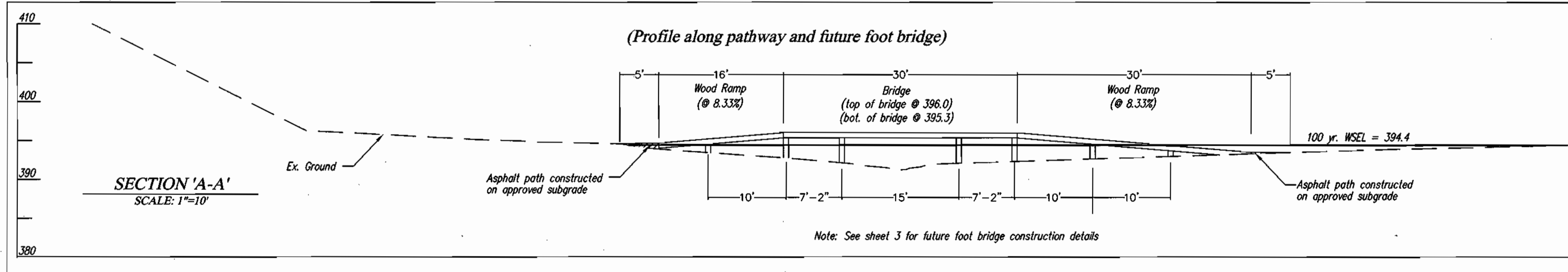
John M. ...
Natural Resources Conservation Service
Date 8/5/03

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

John R. ...
Howard S.C.D.
Date 8/5/03



NOTE: FOOT BRIDGE AND ADJOINING RAMPS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FOOT BRIDGE IS NOT PROPOSED UNDER THIS PLAN.



CROSS-SECTION NO.	WATER SURFACE ELEV.
23+00	397.4
21+00	393.1
19+00	390.0
17+00	386.8
15+50	384.1
13+50	380.9
11+50	378.3
11+15	378.3
10+66	376.9
10+00	376.1
8+00	373.0

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David D. Eagle Director
Cynthia Harant Chief, Division of Land Development
Date 8/12/03

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: 410-980-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

PREPARED FOR:
G & R Maple Lawn, Inc. et. al.
Suite 410, Woodholme Center
1829 Reisterstown Road
Baltimore, MD 21208
Attn: Charlie O' Donovan
410-484-8400

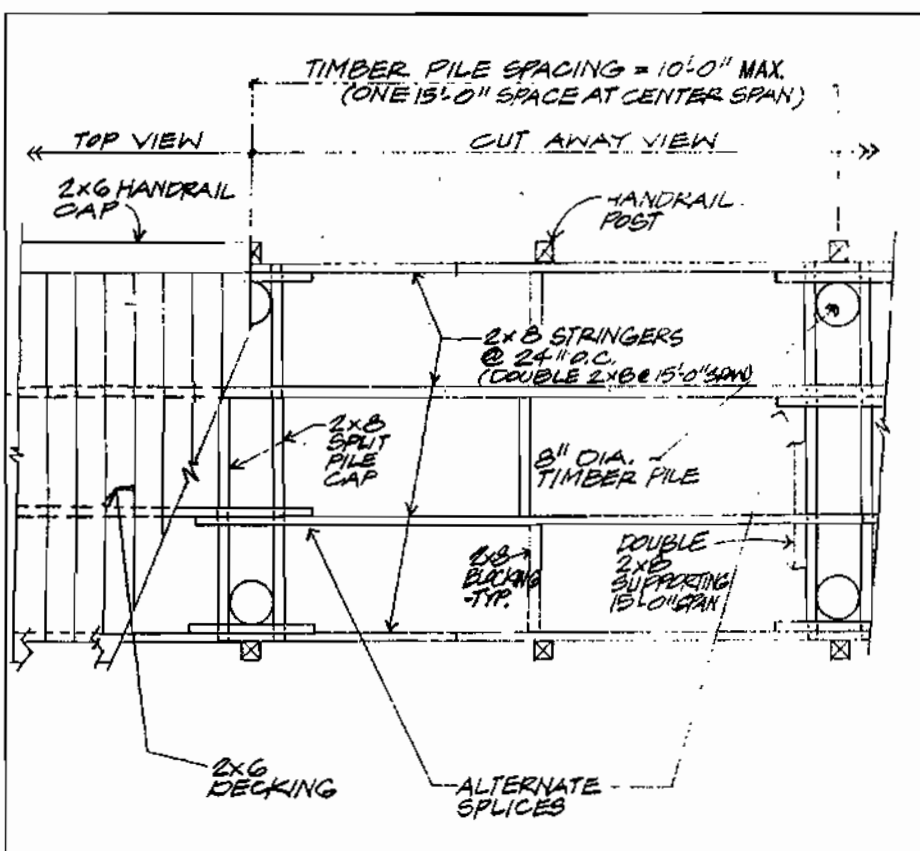
SITE DEVELOPMENT PLAN FOR MASS GRADING AND PATHWAY
MAPLE LAWN FARMS
Midtown District
P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space Lots 122 & 123, Non-Buildable Parcel 'C'
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND

COUNTY FILE # SDP 03-140

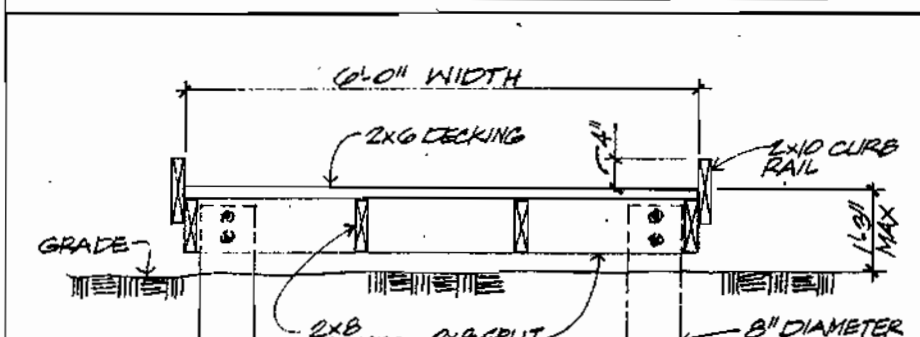
SCALE	ZONING	G. L. W. FILE NO.
1"=50'	MXD-3	02001
DATE	TAX MAP - GRID	SHEET
JUNE, 2003	41:15,16,21&22	2 OF 4

L:\CADD\DRAWINGS\02001\Phase 2 (02001)\MG-Siteplans\02001mg.dwg 07/31/2003 12:05:55 PM EDT

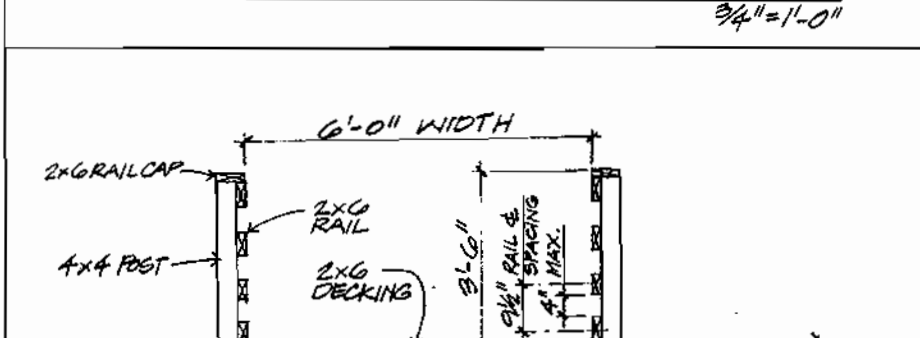
FUTURE FOOT BRIDGE DETAIL



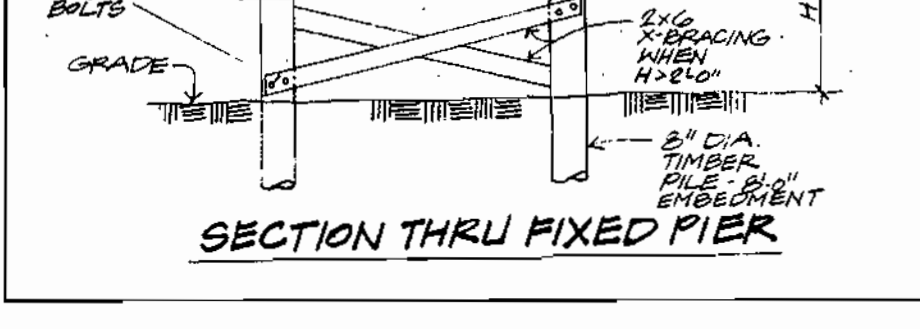
FIXED PIER FRAMING PLAN



SECTION THRU WALKWAY DECK



SECTION THRU FIXED PIER



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

7-31-03
Date

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

7/31/03
Date



These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

Signature of Engineer
Natural Resources Conservation Service
Date: 8/15/03

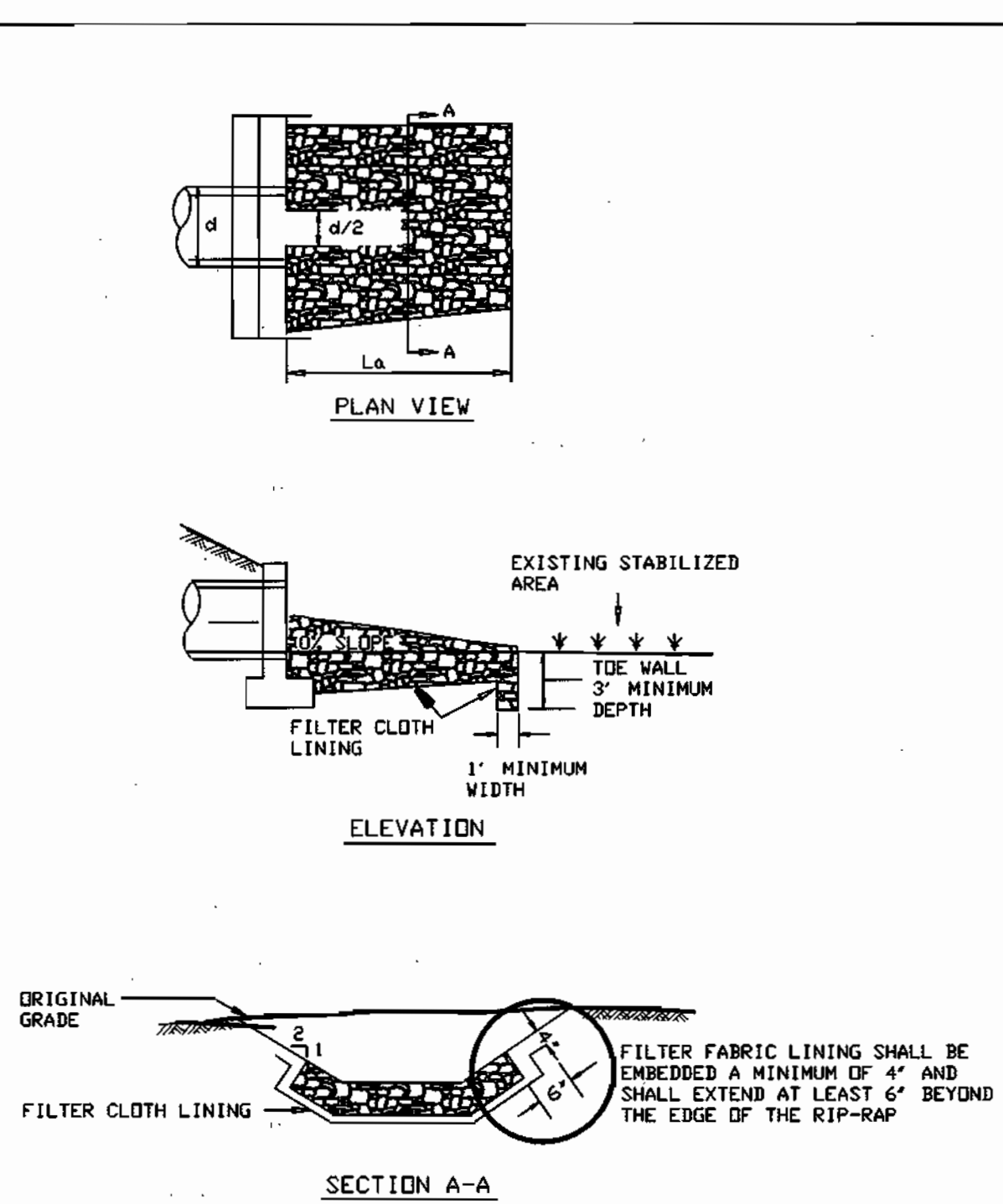
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

Signature of Engineer
Howard S.C.D.
Date: 8/15/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

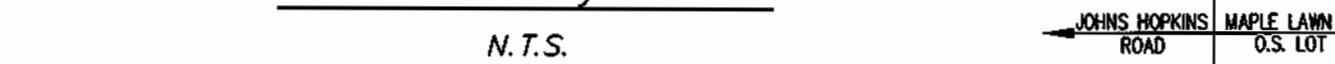
Signature of Director
Date: 8/12/03
Signature of Chief, Division of Land Development
Date: 8/12/03
Signature of Chief, Development Engineering Division
Date: 8-2-03

DETAIL 27 - ROCK OUTLET PROTECTION III



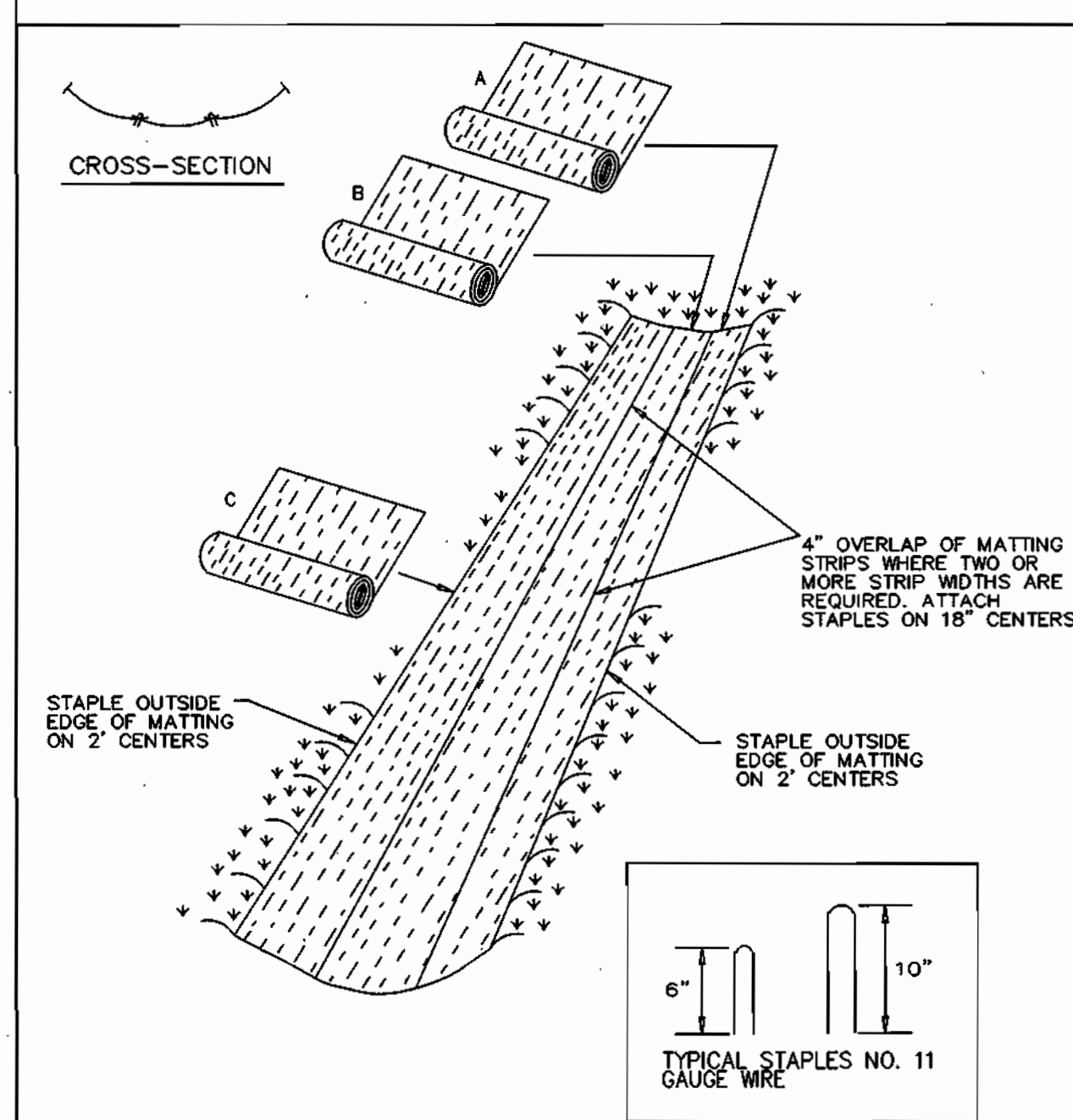
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-18-10 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

5'-0" Pathway Detail



N.T.S.

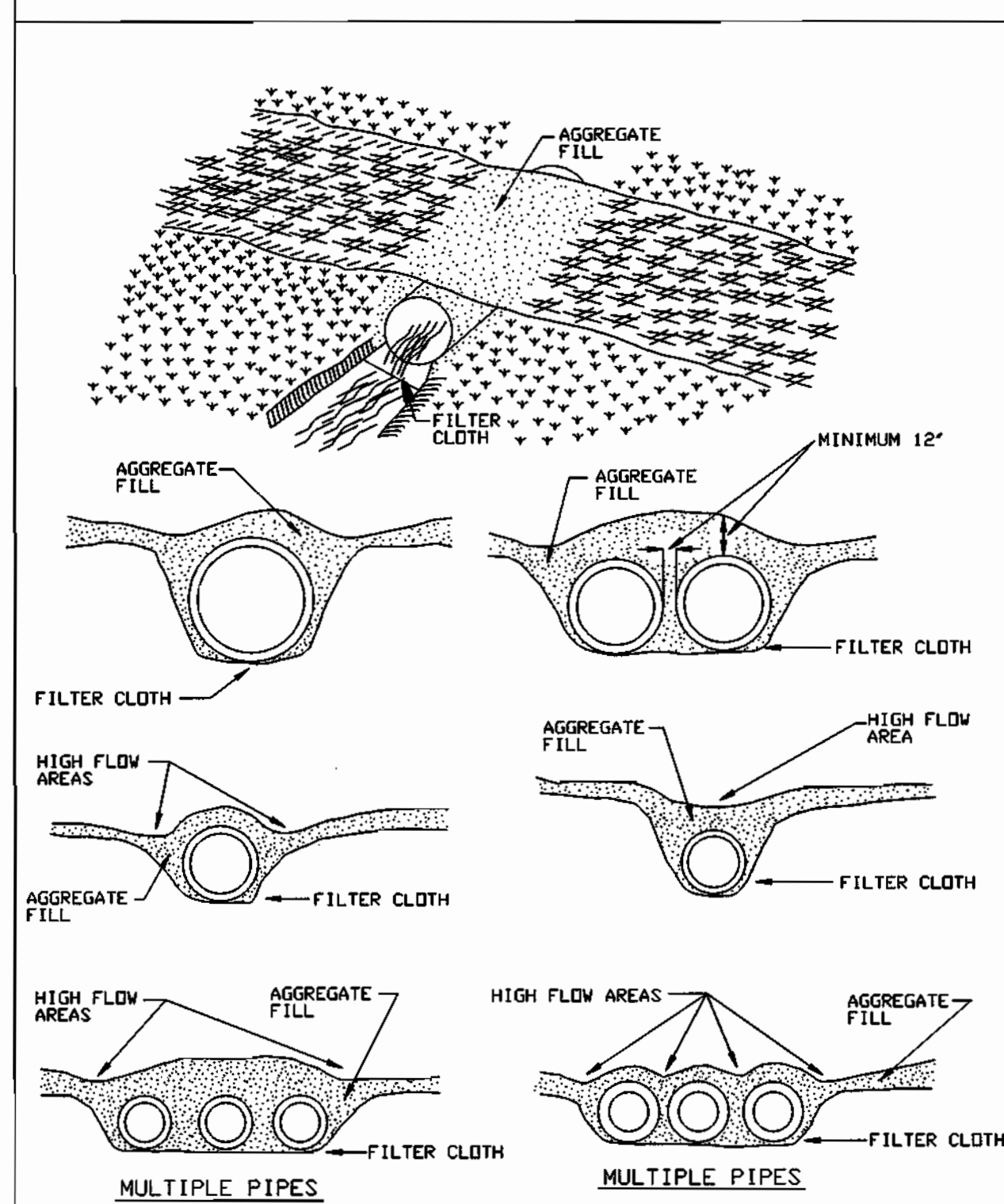
DETAIL 30 - EROSION CONTROL MATTING



- Construction Specifications**
- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
 - Staple the 4" overlap in the channel center using an 18" spacing between staples.
 - Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
 - Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
 - Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
 - The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-29-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 36 - TEMPORARY ACCESS CULVERT



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-29-12 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

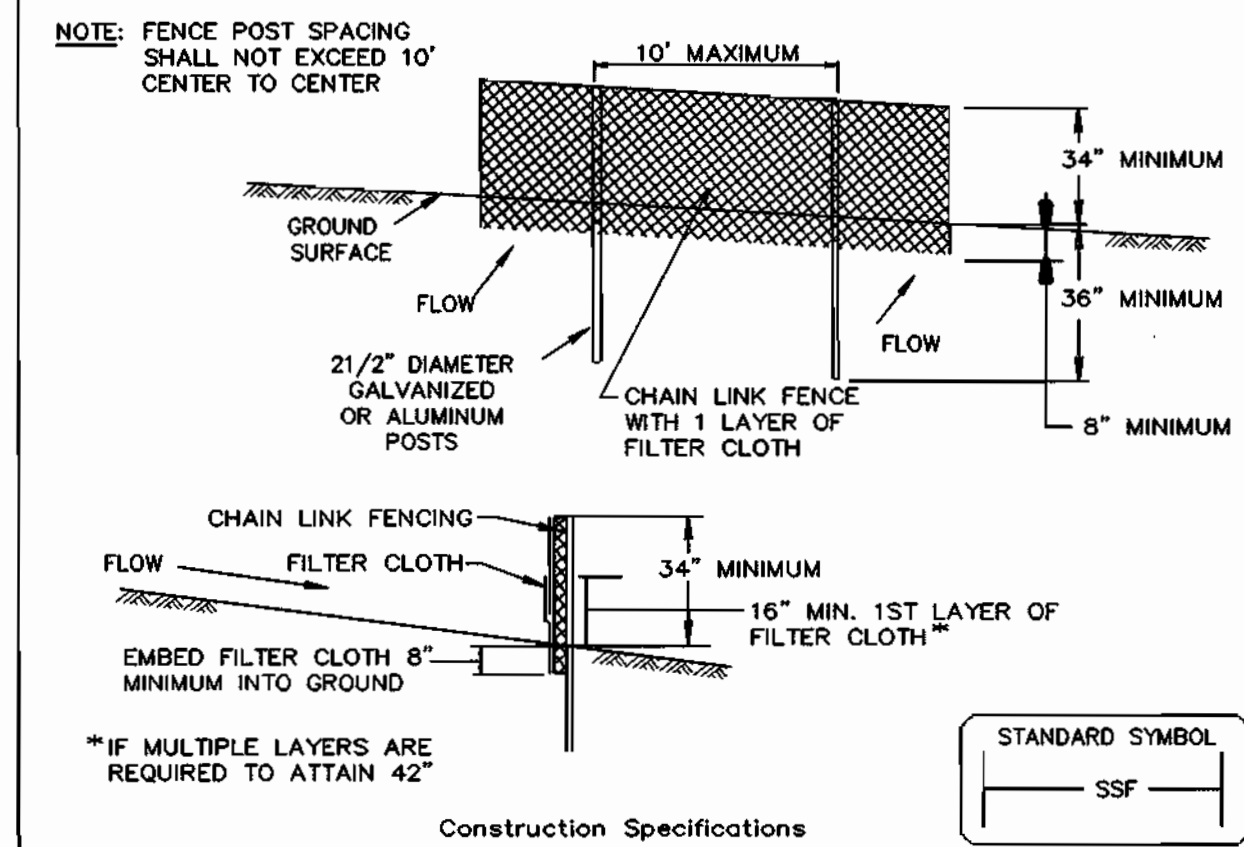
TEMPORARY ACCESS CULVERT

Construction Specifications

- Restrictions - No construction or removal of a temporary access culvert will be permitted between October 1 through April 30 for Class III and Class IV Trout Waters or between March 1 through June 15 for non-trout waterways.
- Culvert Strength - All culverts shall be strong enough to support their cross sectional area under maximum expected loads.
- Culvert Size - The size of the culvert pipe shall be the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills. If a channel width exceeds 3 feet, additional pipes may be used until the cross sectional area of the pipes is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that may be used is a 12" diameter pipe. In all cases, the pipe(s) shall be large enough to convey normal stream flows.
- Culvert Length - The culvert(s) shall extend a minimum of one foot beyond the upstream and downstream toe to the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length.
- Filter Cloth - Filter cloth shall be placed on the streambed and streambanks prior to placement of the pipe culvert(s) and aggregate. The filter cloth shall cover the streambed and extend a minimum six inches and a maximum one foot beyond the end of the culvert and bedding material. Filter cloth reduces settlement and improves crossing stability.
- Culvert Placement - The invert elevation of the culvert shall be installed on the natural streambed grade to minimize interference with fish migration (free passage of fish).
- Culvert Protection - The culvert(s) shall be covered with a minimum of one foot of aggregate. If multiple culverts are used they shall be separated by at least 12" of compacted aggregate fill.
- Stabilization - All areas disturbed during culvert installation shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for "Critical Area Stabilization With Permanent Seeding."

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-29-12A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE



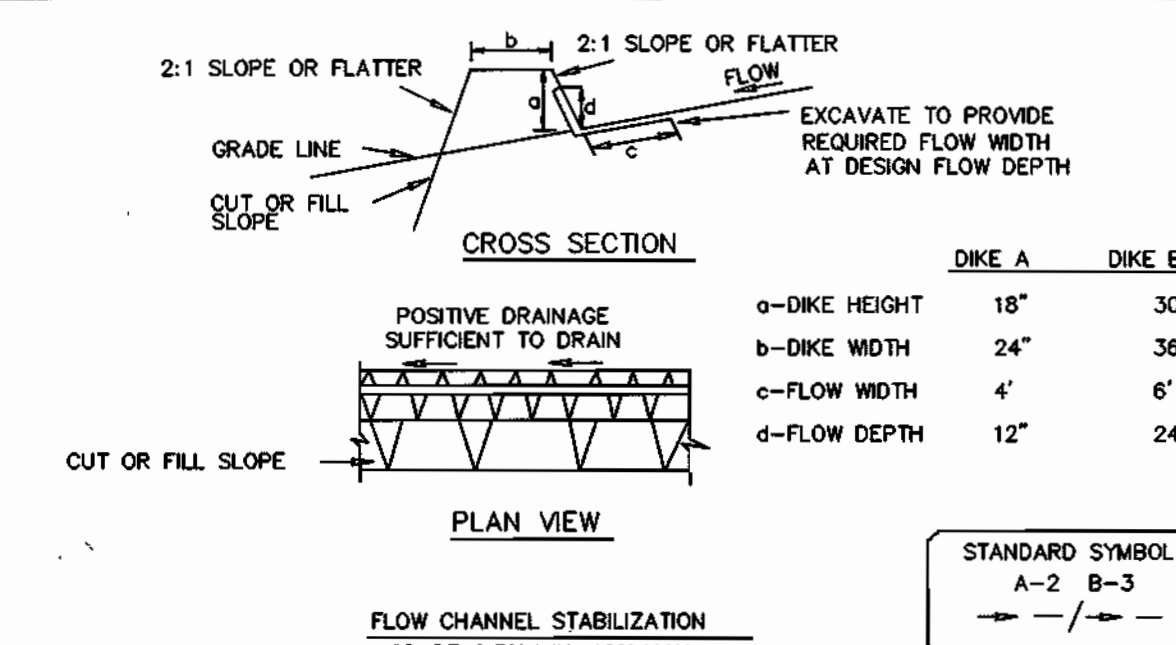
NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
- | | | |
|----------------------|--|----------------|
| Tensile Strength | 50 lbs/in (min.) | Test: MSMT 509 |
| Tensile Modulus | 20 lbs/in (min.) | Test: MSMT 509 |
| Flow Rate | 0.3 gal/ft ² /minute (max.) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 322 |

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-26-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 1 - EARTH DIKE

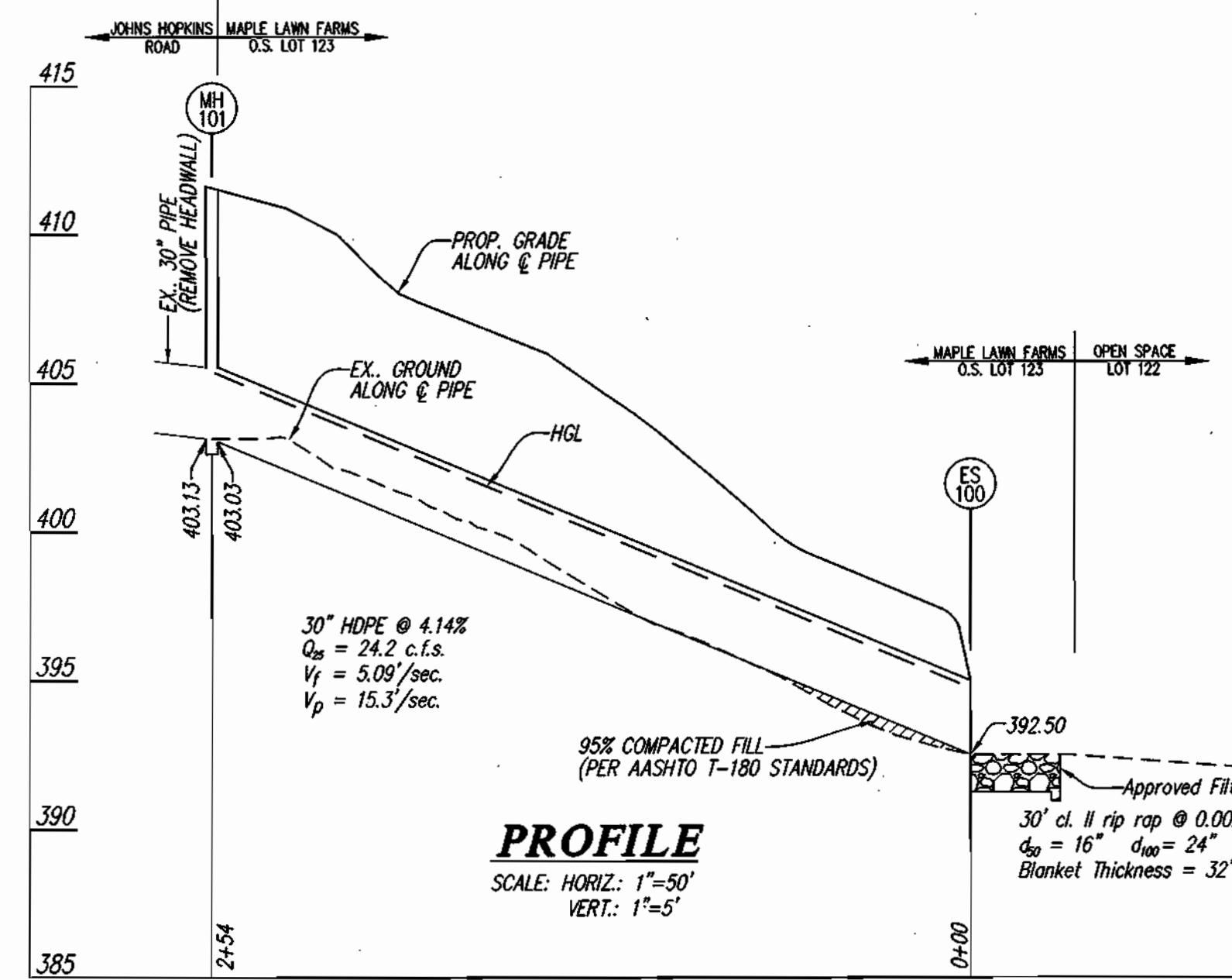


- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or line with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



STRUCTURE SCHEDULE

NO	TYPE	WIDTH (INSIDE)	TOP ELEVATION		INVERT ELEVATION		STD. DETAIL	LOCATIONS	REMARKS
			UPPER	LOWER	UPPER	LOWER			
ES-100	END SECTION	---	---	---	---	392.50	△	N 544,315 E 1,339,800	
MH-101	STANDARD MANHOLE	4'-0"	---	---	411.55	403.13	403.03	HO. CO. G 5.12 N 544,444 E 1,340,016	

- 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.
- STANDARD END SECTION SIMILAR TO HOWARD COUNTY DETAIL SD 5.61 BY ADS, HANCO, OR AN APPROVED EQUAL.

GLW GUTSCHICK LITTLE & WEBER, P.A.

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

PREPARED FOR:

G & R MAPLE LAWN INC., et al.
SUITE 410 WOODHOLME CTR.
1829 REISTERSTOWN ROAD
BALTIMORE, MD 21208
ATTN: CHARLIE O'DONOVAN
410-484-8400

SEDIMENT CONTROL AND PATHWAY DETAILS

MAPLE LAWN FARMS
Midtown District
P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space Lots 122 & 123, Non-Buildable Parcel 'C'

SCALE ZONING G. L. W. FILE NO.

NO SCALE MXD-3 02001

DATE TAX MAP - GRID SHEET
JUNE, 2003 41: 15, 16, 21 & 22 3 OF 4

HOWARD COUNTY, MARYLAND

COUNTY FILE # SDP 03-140

SDP-03-140

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) 131-1880
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 1983 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 : 507.9 Acres, Area Disturbed : 6.8 Acres, Area to be roofed or paved : 0.1 Acres, Area to be vegetatively stabilized : 6.7 Acres, Total Cut : 1,000 Cu. Yds., Total Fill : 85,000 Cu. Yds., Off-site waste/borrow area location: 84,000 coming from F-03-090 grading on west side of stream
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.

Table with 2 columns: Item, Value. Includes Total Area of Site (507.9 Acres), Area Disturbed (6.8 Acres), Area to be roofed or paved (0.1 Acres), Area to be vegetatively stabilized (6.7 Acres), Total Cut (1,000 Cu. Yds.), Total Fill (85,000 Cu. Yds).

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Director: David Hamat, Date: 8/16/03
Chief, Division of Land Development: [Signature], Date: 8/16/03
Chief, Development Engineering Division: [Signature], Date: 8/16/03

PERMANENT SEEDING NOTES

- Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seeded 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 (92 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 (9 lbs/1000 sq ft).
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 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 (70 to 90 lbs/1000 sq ft) of rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet 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.
Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
Seeded 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 (70 to 90 lbs/1000 sq ft) of rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 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.

TEMPORARY SEEDING NOTES

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

- I. 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.
II. 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

- I. 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.
i. 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.
ii. Topsoil must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
iii. 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 1,000 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.
II. For sites having disturbed areas under 5 acres:
i. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
III. For sites having disturbed areas over 5 acres:
i. 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.
ii. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
V. Topsoil Application
i. 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.
ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
iii. 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.
iv. 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 seeded 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:
i. 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.

SEQUENCE OF CONSTRUCTION

- 1. Obtain grading permit and MDC permit. (1 week)
2. Arrange for on-site pre-construction meeting. (1 day)
3. Install perimeter controls. (1 month)
4. Install new temporary stream crossing. (1 day)
5. Perform any maintenance required on existing farm road and stream crossing. If pipe needs replacing, use details for other temporary crossing, including aggregate fill around and over pipe. (2 days)
6. Place minor fill necessary to bring ground up to subgrade for 30" HDPE. (2 weeks)
7. Construct 30" HDPE, manhole, end section and rip-rap. (2 weeks)
8. Grade sites to contours shown. (2 months)
9. Open Space Lots 122 and 123 and non-buildable Parcel "C" - When grading is complete, construct pathway. Install landscaping and afforestation plantings per F-03-90. Stabilize remaining areas. Remove sediment controls with permission of inspector. (2 months)
10. Tax Parcel 205 - Once grading is complete, area will be used as on-going "balance" area during Midtown construction. All areas not actively being used for stockpile activities shall be stabilized in accordance with Temporary Seeding Notes. Once area is no longer being used, remove existing farm road and stream crossing from floodplain and buffers, and stabilize those areas. Stabilize remaining area on parcel. Remove sediment controls with permission of inspector. (24 months)

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.

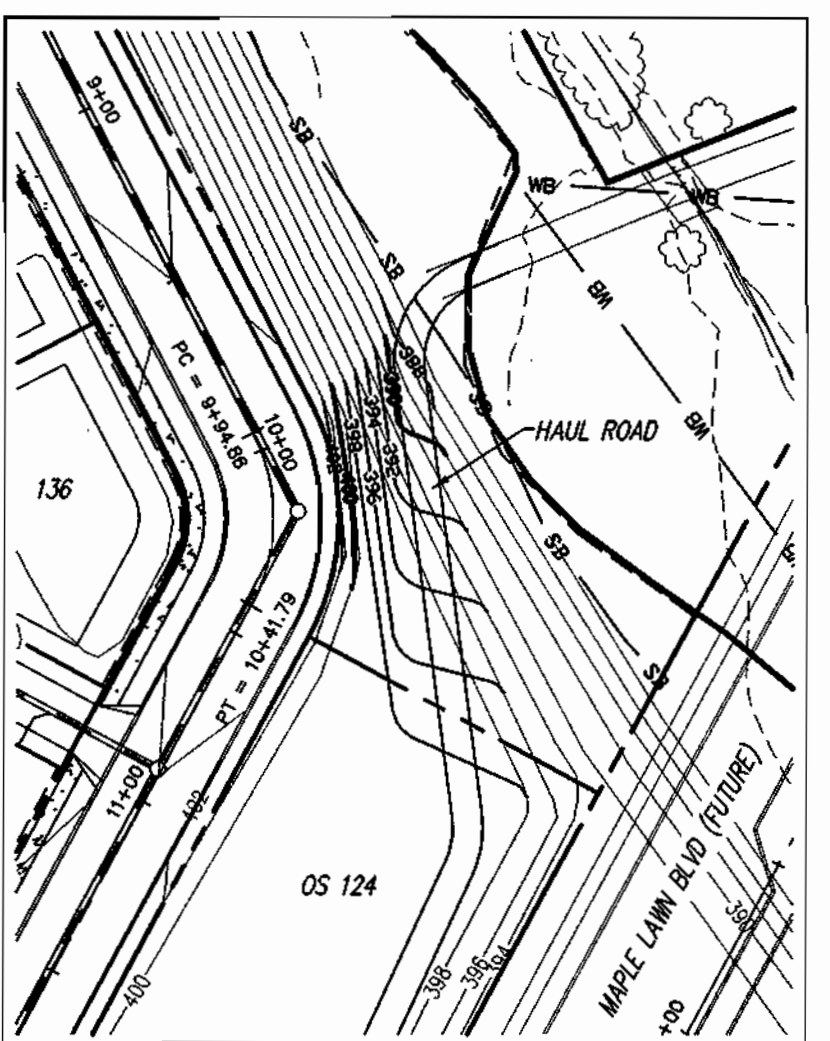
Specifications

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.



HAUL ROAD INTERIM GRADING SCALE: 1"=50'

SEQUENCE OF CONSTRUCTION

- 1. Obtain grading permit and MDC permit. (1 week)
2. Arrange for on-site pre-construction meeting. (1 day)
3. Install perimeter controls. (1 month)
4. Install new temporary stream crossing. (1 day)
5. Perform any maintenance required on existing farm road and stream crossing. If pipe needs replacing, use details for other temporary crossing, including aggregate fill around and over pipe. (2 days)
6. Place minor fill necessary to bring ground up to subgrade for 30" HDPE. (2 weeks)
7. Construct 30" HDPE, manhole, end section and rip-rap. (2 weeks)
8. Grade sites to contours shown. (2 months)
9. Open Space Lots 122 and 123 and non-buildable Parcel "C" - When grading is complete, construct pathway. Install landscaping and afforestation plantings per F-03-90. Stabilize remaining areas. Remove sediment controls with permission of inspector. (2 months)
10. Tax Parcel 205 - Once grading is complete, area will be used as on-going "balance" area during Midtown construction. All areas not actively being used for stockpile activities shall be stabilized in accordance with Temporary Seeding Notes. Once area is no longer being used, remove existing farm road and stream crossing from floodplain and buffers, and stabilize those areas. Stabilize remaining area on parcel. Remove sediment controls with permission of inspector. (24 months)

NOTE: No in-stream work may occur between April 1 and June 15.

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: 7-31-03

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: [Signature], Date: 7/31/03

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

Signature: Jim M... Date: 8/5/03
Natural Resources Conservation Service

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

Signature: John R. ... Date: 8/5/03
Howard S.C.D.

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: 301-989-2524 FAX: 301-421-4188

PREPARED FOR:

G & R MAPLE LAWN INC., et. al.
SUITE 410 WOODHOLME CRT.
1829 REISTERSTOWN ROAD
BALTIMORE, MD. 21208
ATTN: CHARLIE O'DONOVAN
410-484-8400

SEDIMENT CONTROL NOTES

MAPLE LAWN FARMS
Midtown District

P. 121 (L. 4213 F. 95), P. 205 (L. 894 F. 596), Open Space Lots 122 & 123, Non-Buildable Parcel "C"

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

Table with 3 columns: SCALE, ZONING, G. L. W. FILE No.
SCALE: NO SCALE, ZONING: MXD-3, G. L. W. FILE No.: 02001
DATE: JUNE, 2003, TAX MAP - GRID: 41: 15, 16, 21 & 22, SHEET: 4 OF 4