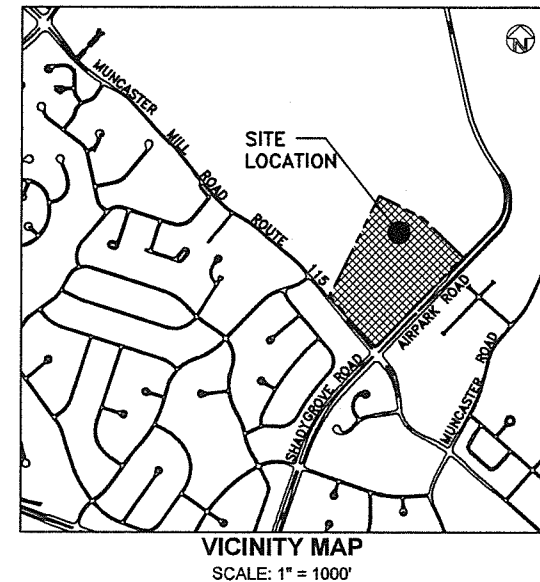


The Maryland National Capital Park and Planning Commission
LAYTONIA RECREATIONAL PARK
30% FACILITY PLAN UPDATE SET
7300 AIRPARK ROAD, GAITHERSBURG, MARYLAND, 20879

FINAL SCANNED: PLAN SCANNED: C10 PARK CODE: C10



INDEX OF DRAWINGS		
DPS SHEET #	SHEET #	DESCRIPTION
	C-001	COVER SHEET
	C-100	GENERAL DEVELOPMENT PLAN
	LN-101	NRI/FSD
	LN-102	NRI/FSD
	LN-103	NRI/FSD
	FCP-1	FINAL FOREST CONSERVATION PLAN
	FCP-2	FINAL FOREST CONSERVATION PLAN
	FCP-3	FINAL FOREST CONSERVATION PLAN
	FCP-4	FINAL FOREST CONSERVATION PLAN
	FCP-5	FINAL FOREST CONSERVATION PLAN
	FCP-6	FINAL FOREST CONSERVATION PLAN
	FCP-7	FINAL FOREST CONSERVATION PLAN
	SWM-1	SWM-CONCEPT OVERALL PLAN
	SWM-2	SWM CONCEPT PLAN
	SWM-3	SWM CONCEPT PLAN
	SWM-4	SWM CONCEPT PLAN
	SWM-5	SWM-POST DEV. DRAINAGE AREAS
	ESC-1	ESC CONCEPT PLAN

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District					
Waterway/Wetland(s)					
Corps of Engineers					
MDE					
MDE Water Quality Certification					
MDE Dam Safety					
N.P.D.E.S. NOTICE OF INTENT					
Site Access Permit					
Others (list)					

GENERAL NOTES

- Detail drawings and schedules describe construction at given areas. The General Contractor and all subcontractors shall utilize equivalent construction methods in all areas.
- All notes shown on the drawings shall be assumed as typical unless otherwise shown or noted.
- It shall be the duty of the contractor to verify all dimensions and conditions given on the drawings and to report to the M-NCPPC's Construction Manager any error or inconsistency with the actual circumstances in the field before commencing work.
- The General Contractor shall be responsible for any and all items required to provide a site clear of obstructions (above and below grade) and rough grade to specified elevations.
- To All Bidders: The General Contractor and all major subcontractors shall visit the site to familiarize themselves with existing conditions prior to submitting Bid.
- Any work within the public right-of-way, shall be performed in accordance with the latest MCDPWT standards and specification. This work includes, but not limited to: Repairing; Restoring; and obtaining final inspection approvals.
- Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for Topsoil" (see DPS sheet 4 of 8) and MNCPPC Technical Specifications. If on-site materials do not meet requirements of topsoil, coordinate with M-NCPPC regarding filling-in of certified compost to on-site soils in order to meet specification.
- Any discrepancies, omissions, ambiguities, or conflicts in or among the construction documents or doubt about their meaning, shall be brought to the attention of the MNCPPC Construction Manager for direction before proceeding with work. If ambiguities exist, the better quality and greater quantity of work shall be bid upon and installed by the Contractor unless otherwise indicated by the MNCPPC's Construction Manager in writing.

ADA COMPLIANCE CERTIFICATION

The design of this project has incorporated facilities for the elderly and handicapped in compliance with the County, State and Federal Legislation.

Design Engineer _____ Date _____
 Printed Name _____ Registration Number _____

- SEDIMENT CONTROL/STORMWATER MANAGEMENT CERTIFICATION -

OWNER'S/DEVELOPER'S CERTIFICATE	CERTIFICATION OF THE QUANTITIES
<p>"I hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning this project."</p> <p>Signature _____ Date _____</p> <p>Printed Name _____ Title _____</p>	<p>"I hereby certify that the amount of excavation and fill as shown on these plans has been computed to _____ cubic yards of excavation, _____ cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be _____ square feet."</p> <p>Signature _____ Date _____</p> <p>Printed Name _____ Registration Number _____</p> <p>Note: The earthwork cut and fill quantities and the area of disturbance indicated in this certificate are calculated for the purpose of plan approval and should not be used for contractual obligations.</p>
DESIGN CERTIFICATION	MAINTENANCE CERTIFICATION
<p>"I hereby certify that this plan has been prepared in accordance with the "1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control", Montgomery County Department of Permitting Services Executive Regulations 5-90, 7-02AM and 36-90, and Montgomery County Department of Public Works and Transportation "Storm Drain Design Criteria", dated August 1988."</p> <p>Design Engineer Signature _____ Date _____</p> <p>Printed Name _____ Registration Number _____</p>	<p>"I hereby certify that I/we assume maintenance responsibilities for all stormwater management structures shown hereon. If maintenance responsibility is legally transferred, I/we agree to supply the Montgomery County Department of Environmental Protection with a copy of the document (signed by both parties) transferring said maintenance responsibility at that time."</p> <p>Date _____ Owner/Developer _____</p> <p>Printed Name _____ Title _____</p>

APPROVED FOR PROCUREMENT

Approved By: _____ Date: _____
 Mrs. Padawan, PE
 Chief, Park Development Division

MONTGOMERY COUNTY DEPT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:	
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____	
Approved _____ Date _____	Approved _____ Date _____	Approved _____ Date _____	

MISS UTILITY

The Contractor shall call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work. The Contractor is responsible for ensuring that all underground utilities in the area of proposed work are located prior to commencing construction work. The Contractor is responsible for compliance with requirements of Chapter 36A of the Montgomery County Code.

The Contractor is also responsible for locating all private utilities (not located by Miss Utility) within M-NCPPC property at their expense. All utilities shown on the plans are provided for information only and shall be considered approximate. M-NCPPC shall not be responsible for locating underground utilities. Any utilities or other underground facilities damaged during construction shall be repaired/replaced at the Contractor's expense.

UTILITY SURVEY & RELOCATION CERTIFICATION				
UTILITY	DATE REQUESTED	DATE RECEIVED	SHOWN ON PLANS (Y/N)	RELOCATION REQ'D (Y/N)
PEPCO				
WSSC				
AT&T				
WG&L				
VERIZON				
COMCAST				

UTILITY STATEMENT
 THE ABOVE UTILITY COMPANIES HAVE BEEN CONTACTED REGARDING EXISTING UTILITIES WITHIN THIS PROJECT AREA AND INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM AVAILABLE RECORDS. HENCE, ANY UTILITY MODIFICATIONS REQUIRED BY THIS PROJECT HAVE BEEN COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES. THIS STATEMENT DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR FIELD LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION.

Name/Title _____ Date _____

HURON CONSULTING	DESIGN		Professional Certification
Designer's Name 20410 CENTURY BLVD, SUITE 230 Address GERMANTOWN, MD 20874 City/State/Zip 301-528-2010 Telephone Number	DANA WILDER Project Engineer Checked By: JA	DLW Checked By: JA	I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
	RICHARD HURNEY Project Manager Checked By: REH	REH Checked By: REH	License No. _____ Expiration Date _____
	Drawn by _____ Date _____	Checked By: _____	



REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date

LAYTONIA RECREATIONAL PARK

COVER SHEET

SCALE: AS SHOWN

Liber 14440 Folio 234
28063 491

DWG. # **C-001**

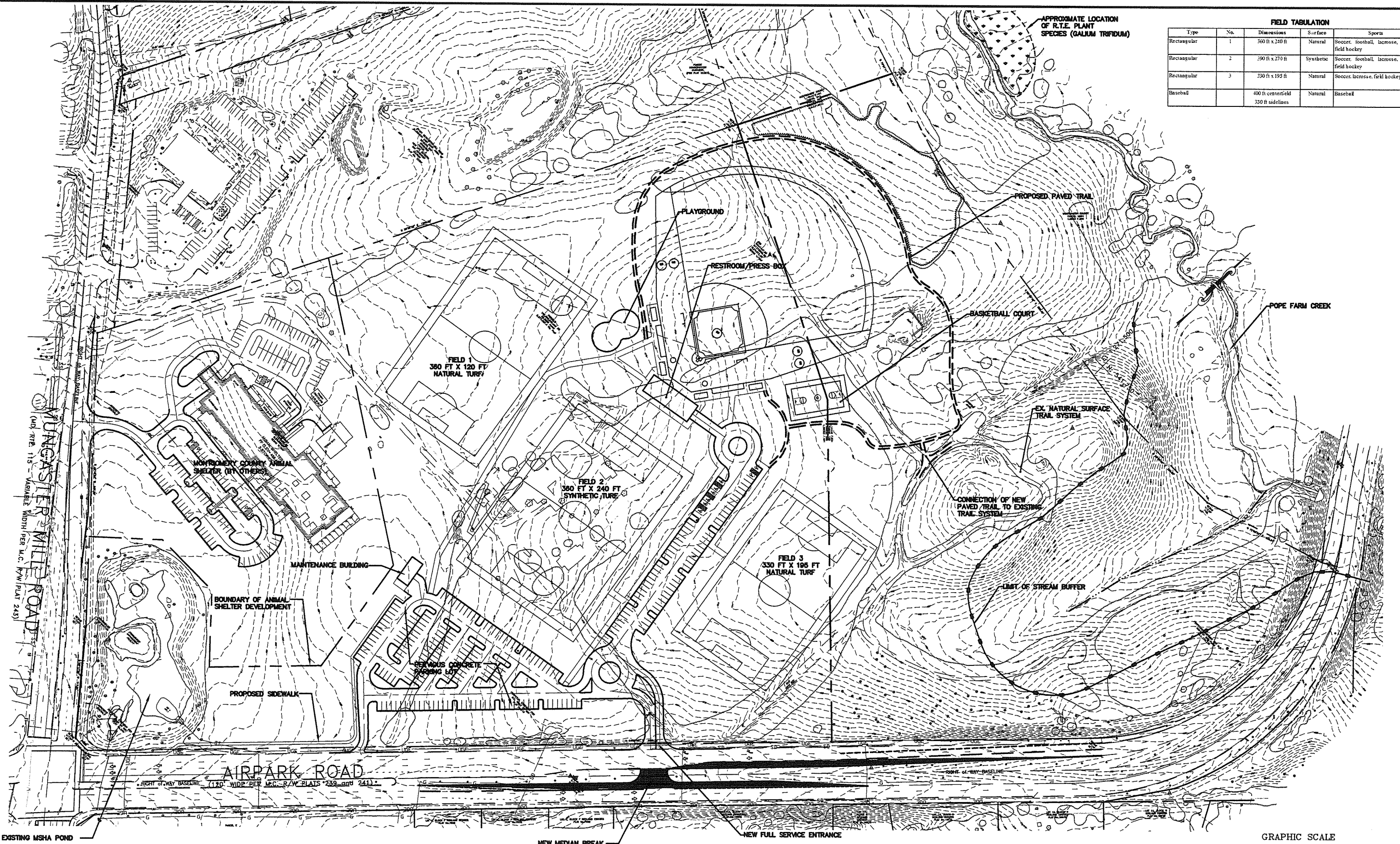
SHT. # **1** of **XX**

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

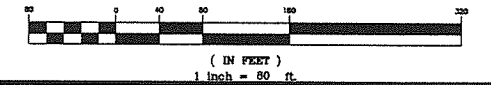
Plotted By: Jason Azar, 7/14/2010 9:25 AM



FIELD TABULATION				
Type	No.	Dimensions	Surface	Sports
Rectangular	1	360 ft x 240 ft	Natural	Soccer, football, lacrosse, rugby, field hockey
Rectangular	2	390 ft x 270 ft	Synthetic	Soccer, football, lacrosse, rugby, field hockey
Rectangular	3	330 ft x 195 ft	Natural	Soccer, lacrosse, field hockey
Baseball		400 ft centerfield 330 ft sidelines	Natural	Baseball

APPROXIMATE LOCATION OF R.T.E. PLANT SPECIES (GALIUM TRIFIDUM)

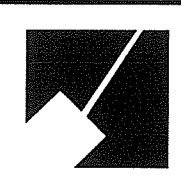
GRAPHIC SCALE



HURON CONSULTING
 Designer's Name: 20410 CENTURY BLVD., SUITE 230
 Address: GERMANTOWN, MD 20874
 City/State/Zip: 301-528-2010
 Telephone Number

DESIGN
 DANA WILDER DLW
 Project Engineer
 JASON AZAR
 Date
 Checked By: JA
 RICHARD HURNEY
 Date
 Checked By: REH
 RANDY FULTON
 Date
 Checked By: RAF

Professional Certification: I hereby certify that these documents 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. 31168
 Expiration Date 01-12-2011



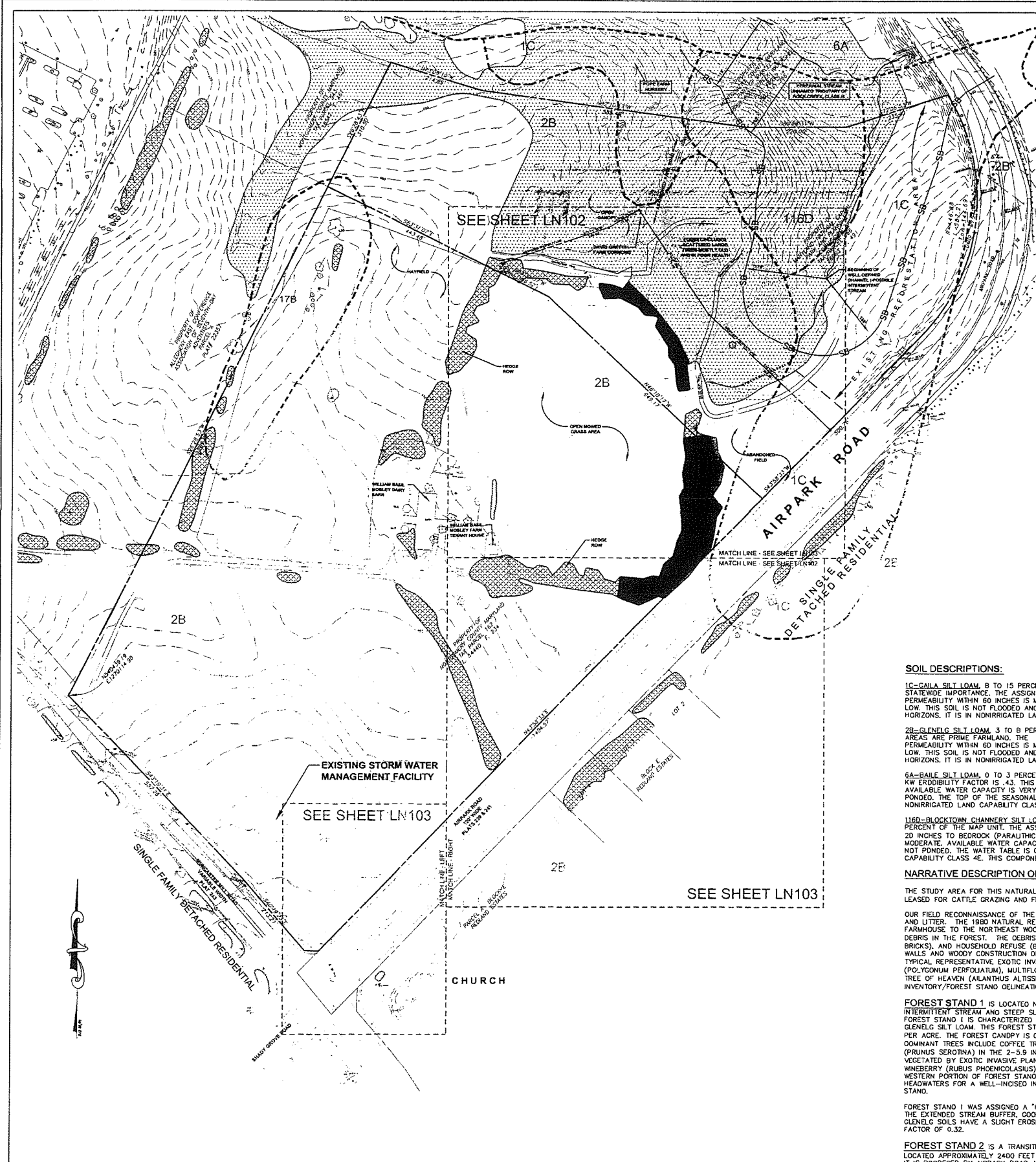
The Maryland-National Capital Park and Planning Commission
 Montgomery County Department of Parks
 9500 Brunnet Avenue
 Silver Spring, Maryland 20901
 (301) 495-2535

REVIEW AND APPROVAL
 Project Manager Date
 Construction Manager Date
 Park Manager Date

ISSUED FOR PROCUREMENT ON		
REVISIONS		
Rev. No.	Date	Description

LAYTONIA RECREATIONAL PARK
 GENERAL DEVELOPMENT PLAN
 SCALE: AS SHOWN
 Liber 14440 Folio 234
 26063 491

DWG. # C-100
 SHT. # 1 of XX



THIS PLAN IS FOR NATURAL RESOURCE INVENTORY/FOREST STAND DELINEATION PLAN PURPOSES ONLY

CERTIFICATION
 I CERTIFY THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND AND THAT THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND IN COMPLIANCE WITH THE FOREST STAND DELINEATION REQUIREMENTS.
 GREGORY J. OSBANY
 LICENSE NUMBER MD 11A-4721

SOIL DESCRIPTIONS:

1C-GAIA SILT LOAM. 8 TO 15 PERCENT SLOPES GAIA COMPONENT MAKES UP 95 PERCENT OF THE MAP UNIT. FARMLAND OF STATEWIDE IMPORTANCE. THE ASSIGNED KW ERODIBILITY FACTOR IS .37. THIS SOIL IS WELL DRAINED, THE SLOWEST PERMEABILITY WITHIN 60 INCHES IS MODERATE. AVAILABLE WATER CAPACITY IS VERY HIGH AND SHRINK SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED AND IS NOT PONDED. THE WATER TABLE IS DEEPER THAN 6 FEET. THERE ARE NO SALINE HORIZONS. IT IS IN NONIRRIGATED LAND CAPABILITY CLASS J2. THIS COMPONENT IS NOT A HYDRIC SOIL.

2B-GLENELC SILT LOAM. 3 TO 8 PERCENT SLOPES GLENELC COMPONENT MAKES UP 95 PERCENT OF THE MAP UNIT. ALL AREAS ARE PRIME FARMLAND. THE ASSIGNED KW ERODIBILITY FACTOR IS .32. THIS SOIL IS WELL DRAINED, THE SLOWEST PERMEABILITY WITHIN 60 INCHES IS MODERATE. AVAILABLE WATER CAPACITY IS VERY HIGH AND SHRINK SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED AND IS NOT PONDED. THE WATER TABLE IS DEEPER THAN 6 FEET. THERE ARE NO SALINE HORIZONS. IT IS IN NONIRRIGATED LAND CAPABILITY CLASS J2. THIS COMPONENT IS NOT A HYDRIC SOIL.

6A-BALE SILT LOAM. 0 TO 3 PERCENT SLOPES BALE COMPONENT MAKES UP 100 PERCENT OF THE MAP UNIT. THE ASSIGNED KW ERODIBILITY FACTOR IS .43. THIS SOIL IS POORLY DRAINED, THE SLOWEST PERMEABILITY WITHIN 60 INCHES IS MODERATE. AVAILABLE WATER CAPACITY IS LOW AND SHRINK SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED AND IS NOT PONDED. THE WATER TABLE IS DEEPER THAN 6 FEET. THERE ARE NO SALINE HORIZONS. IT IS IN NONIRRIGATED LAND CAPABILITY CLASS J2. THIS COMPONENT IS NOT A HYDRIC SOIL.

11B-BLOCKTOWN CHANNERY SILT LOAM. 15 TO 25 PERCENT SLOPES, VERY ROCKY BLOCKTOWN COMPONENT MAKES UP 85 PERCENT OF THE MAP UNIT. THE ASSIGNED KW ERODIBILITY FACTOR IS .24. THE DEPTH TO A RESTRICTIVE FEATURE IS 10 TO 20 INCHES TO BEDROCK (PARAUTOCH). THIS SOIL IS WELL DRAINED, THE SLOWEST PERMEABILITY WITHIN 60 INCHES IS MODERATE. AVAILABLE WATER CAPACITY IS LOW AND SHRINK SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED AND IS NOT PONDED. THE WATER TABLE IS DEEPER THAN 6 FEET. THERE ARE NO SALINE HORIZONS. IT IS IN NONIRRIGATED LAND CAPABILITY CLASS J2. THIS COMPONENT IS NOT A HYDRIC SOIL.

NARRATIVE DESCRIPTION OF THE MONTGOMERY COUNTY ANIMAL SHELTER

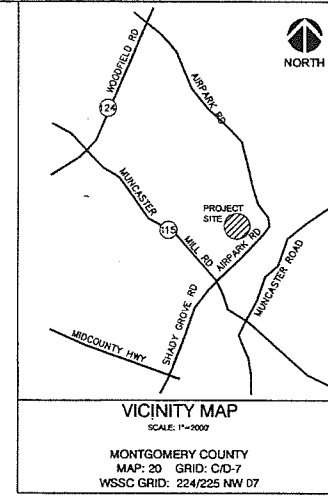
THE STUDY AREA FOR THIS NATURAL RESOURCE INVENTORY/FOREST STAND DELINEATION CONSISTS OF FALLOW FIELDS, LAND LEASED FOR CATTLE GRAZING AND FIREWOOD, AND A MIXED OCCIDUOUS PIONEER/MIOSUCCESSIONAL FOREST COMMUNITY.

OUR FIELD RECONNAISSANCE OF THE SITE INDICATES THE FOREST CONTAINS A SIGNIFICANT ACCUMULATION OF URBAN DEBRIS AND LITTER. THE 1980 NATURAL RESOURCE CONSERVATION SERVICE SOIL SURVEY SHOWS TWO ROADS LEADING FROM THE FARMHOUSE TO THE NORTHEAST WOODED AREA. THESE ROADS WERE PROBABLY USED TO TRANSPORT AND DEPOSIT THE DEBRIS IN THE FOREST. THE DEBRIS CONSIST OF GARDEN HOSES, SILT FENDING, CONSTRUCTION RUBBLE (CONCRETE BLOCKS AND BRICKS), AND HOUSEHOLD REFUSE (BOTTLES AND CANS). THIS AREA CONTAINS 36 TO 48 INCH CONCRETE PIPES, JERSEY WALLS AND WOODY CONSTRUCTION DEBRIS. EXOTIC INVASIVE PLANTS WERE COMMON THROUGHOUT THE FORESTED AREAS. TYPICAL REPRESENTATIVE EXOTIC INVASIVE PLANTS INCLUDE GARLIC MUSTARD (ALLIARIA OFFICINALIS); DEVILS TEAR THUMB (POLYGONUM PERFORATUM); MULTIFLORA ROSE BUSH (ROSA MULTIFLORA); THE EMPRESS TREE (PALUDINIA TOMENTOSA); THE TREE OF HEAVEN (AILANTHUS ALTISSIMA) AND WINEBERRY (RUBUS PHOENICOLAUS). THE NATURAL RESOURCE INVENTORY/FOREST STAND DELINEATION MAP SHOWS THE SAMPLE PLOT LOCATIONS FOR THE FOREST STAND DELINEATION.

FOREST STAND 1 IS LOCATED NORTH OF STAND 2. THIS STAND IS BORDERED TO THE EAST BY A FIRST ORDER INTERMITTENT STREAM AND STEEP SLOPES. FOREST STAND 1 IS CHARACTERIZED AS A MESC, EARLY TO MID-SUCCESSIONAL 30-40 YEAR OLD FOREST UNDERLAIN BY GLENELC SILT LOAM. THIS FOREST STAND HAS A BASAL AREA OF 1000 SQUARE FEET PER ACRE AND HAS 10 DEAD TREES PER ACRE. THE FOREST CANOPY IS DOMINATED BY RED MAPLE (ACER RUBRUM) IN THE 18-29.9 INCH DBH SIZE CLASS. CO-DOMINANT TREES INCLUDE COFFEE TREE (GYMNOCLADUS DIOICA) IN THE 6-9.9 INCH DBH SIZE CLASS, BLACK LOCUST (PRUNUS SEROTINA) IN THE 2-5.9 INCH DBH SIZE CLASS. THE UNDERSTORY, SHRUB AND HERBACEOUS LAYER IS PREDOMINATELY VEGETATED BY EXOTIC INVASIVE PLANTS REPRESENTED BY MULTIFLORA ROSE (ROSA MULTIFLORA), BLACKBERRY (RUBUS SP.), WINEBERRY (RUBUS PHOENICOLAUS), WILD ONION (ALLIUM SP.), AND JAPANESE HONEYSUCKLE (LONICERA JAPONICA). THE WESTERN PORTION OF FOREST STAND 1 HAS AN ACCUMULATION OF URBAN DEBRIS EXTENDING FROM THE WEST. THE HEADWATERS FOR A WELL-INNOSED INTERMITTENT STREAM ARE LOCATED ALONG THE EASTERN BOUNDARIES OF THIS FOREST STAND.

FOREST STAND 1 WAS ASSIGNED A "HIGH PRIORITY RETENTION" RATING DUE TO THE PROXIMITY OF THE INTERMITTENT STREAM, THE EXTENDED STREAM BUFFER, GOOD HEALTH OF THE FOREST, AND THE TREES HAVING A DBH GREATER THAN 7 INCHES. GLENELC SOILS HAVE A SLIGHT EROSION HAZARD AND EQUIPMENT LIMITATIONS. THE SOIL AT THE FOREST STAND HAS A KW FACTOR OF 0.32.

FOREST STAND 2 IS A TRANSITIONAL PLANT COMMUNITY LOCATED ON AN OLD ABANDONED FARM ROAD. THIS STAND IS LOCATED APPROXIMATELY 2400 FEET NORTHEAST OF THE RT. 115 (MUNICESTER MILL ROAD) AND AIRPARK ROAD INTERSECTION. IT IS BORDERED BY AIRPARK ROAD AND A MOWED GRASSY FIELD TO THE EAST, A PASTURE FIELD USED BY CATTLE TO THE WEST, AND FALLOW AGRICULTURE LAND TO THE SOUTH. FOREST STAND 2 IS AN EARLY TRANSITIONAL FOREST UNDERLAIN BY GLENELC SILT LOAM AND HAS BASAL AREA OF 110 SQUARE FEET. THE DOMINANT OVERSTORY TREE SPECIES IS BLACK CHERRY (PRUNUS SEROTINA) IN THE 18-29.9 INCH DBH SIZE CLASS. THE CO-DOMINANT SPECIES INCLUDE BLACK LOCUST (ROBINIA PSEUDOACACIA), WHITE MULBERRY (MORUS ALBA), AND RED MAPLE (ACER RUBRUM) IN THE 10-17.9 INCH DBH SIZE CLASS. THE COMMON UNDERSTORY AND SHRUB SPECIES INCLUDE BLACK CHERRY (PRUNUS SEROTINA), FLOWERING DOGWOOD (CORNUS FLORIDA), TARTARIAN HONEYSUCKLE (LONICERA TARTARICA) AND MULTIFLORA ROSE (ROSA MULTIFLORA). THE SHRUB AND HERB LAYER IS VEGETATED BY THE FOLLOWING EXOTIC INVASIVE PLANTS: MULTIFLORA ROSE, JAPANESE HONEYSUCKLE, WHITE MULBERRY (MORUS ALBA) AND TARTARIAN HONEYSUCKLE (LONICERA TARTARICA). FOREST STAND 2 WAS ASSIGNED "MODERATE PRIORITY RETENTION" RATING BASED ON THE PRESENCE OF A GOOD FOREST STRUCTURE. HOWEVER, EXOTIC INVASIVE PLANTS ARE EXTENSIVE IN THIS STAND. AN ACCUMULATION OF URBAN LITTER WAS OBSERVED THROUGHOUT PORTIONS OF THIS STAND. GLENELC SOILS HAVE SLIGHT EROSION HAZARD AND EQUIPMENT LIMITATIONS. THE SOIL AT THIS FOREST STAND HAS A KW FACTOR OF 0.32.



LEGEND

[Symbol]	FOREST STAND OFFSITE
[Symbol]	TREE STAND OFFSITE
[Symbol]	FOREST STAND 1 ON-SITE HIGH PRIORITY
[Symbol]	FOREST STAND 2 ON-SITE MODERATE PRIORITY
[Symbol]	TREE STAND ON-SITE LOW PRIORITY
[Symbol]	PROPERTY LINE
[Symbol]	STREAM BUFFER
[Symbol]	STREAM
[Symbol]	SOIL LIMITS
[Symbol]	SOIL TYPE
[Symbol]	SAMPLE PLOT

PROPERTY INFORMATION: (2 parcels)
 PARCEL #: P162, P966
 ACCOUNT #: 00000614, 00010453
 SUBDIVISION #: N/A
 GRID #: MAP 20 GRID C/D-7
 UBER/FOLIO: 14440/234, 26063/491
 TAX MAP: C142
 WSSC GRID: 224/225 NW07
 TOTAL SITE ACRES: 50.19 ACRES

ENVIRONMENTAL SUMMARY TABLE:

FOREST AREA:	9.26 ACRES
WETLANDS:	0.00 ACRES
WETLANDS FORESTED:	0.00 ACRES
STREAM BUFFER:	4.11 ACRES
STREAM BUFFER FORESTED:	2.42 ACRES
STREAM BUFFER AVG. WOTH:	160 FEET
STREAM LINEAR EXTENT:	400 FEET
FLOODPLAIN FORESTED:	0.00 ACRES (FEMA 2001)
FLOODPLAIN SOURCE:	UPPER ROCK CREEK
WATERSHED:	III (3)
USE CLASS:	

GENERAL:
 THERE ARE NO READILY OBSERVABLE RARE, THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITATS ON THIS SITE.

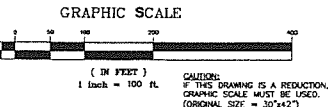
THERE ARE RECORDS OF HISTORIC OR CULTURAL RESOURCES ON THIS SITE. THE DAVID GREIFLICH FARM CORNCRIB, WILLIAM BASIL MABLEY DAIRY BARN, AND WILLIAM BASIL MABLEY FARM TENANT HOUSE ARE DESCRIBED IN THE LAYTONIA RECREATIONAL PARK FACILITY PLAN - OCTOBER 2001. THE REPORT SUGGESTS THAT NONE OF THESE STRUCTURES ARE ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.

THERE ARE NO MONTGOMERY COUNTY OR STATE CHAMPION TREES ON THIS PARCEL. NO TREES ON THE PARCEL HAVE A DBH ≥ 75% OF THE COUNTY OR STATE CHAMPION.

THERE IS NO FLOODPLAIN ASSOCIATED WITH THIS PROPERTY.

THIS SITE IS LOCATED WITHIN THE UPPER ROCK CREEK SPA.

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
 NR/PSD PLAN
APPROVED
 NR/PSD No. 420070320
 Date Approved: July 13, 2009
 Expiration Date: July 13, 2011
 Signature: [Signature] 7/13/09



REVISIONS

NO.	DATE	DESCRIPTION

OWNER:
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 101 MONROE STREET, 11TH FLOOR
 ROCKVILLE MD 20850

ARCHITECT:
 PROFITTT AND ASSOCIATES ARCHITECTS
 100 NORTH MARKET STREET
 FREDERICK, MARYLAND 21701
 PHONE: 301-662-8532
 FAX: 301-662-4192

ANIMAL SHELTER CONSULTANT:
 BACON GROUP, INC.
 2641 SUNSET POINT ROAD
 CLEARWATER, FLORIDA 33759
 PHONE: 727-725-0111
 FAX: 727-725-0299

CIVIL ENGINEER:
 A WORTON THOMAS AND ASSOCIATES, INC.
 12750 TWINBROOK PARKWAY
 ROCKVILLE, MARYLAND 20852
 PHONE: 301-881-2545
 FAX: 301-881-2545

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER:
 OPE ASSOCIATES, INC.
 OULANEY CENTER 1, SUITE 102
 849 FARMOUT AVENUE
 BALTIMORE, MARYLAND 21286
 PHONE: 410-832-2420
 FAX: 410-832-2418

STRUCTURAL ENGINEER:
 ABEL CONSULTING ENGINEERS, PA
 9055 COMPTON COURT, SUITE 210
 CALVERTSBURG, MARYLAND 20687
 PHONE: 301-258-8884
 FAX: 301-258-9457

RFP #
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF CAPITAL DEVELOPMENT

101 MONROE STREET, ELEVENTH FLOOR
 ROCKVILLE, MARYLAND 20850-2640

ANIMAL SHELTER
 7300 AIRPARK ROAD
 GAITHERSBURG, MARYLAND 20879

PROFITTT AND ASSOCIATES ARCHITECTS
 100 NORTH MARKET STREET
 FREDERICK, MARYLAND 21701
 PHONE: 301-662-8532
 FAX: 301-662-4192
 info@profitttandassociates.com

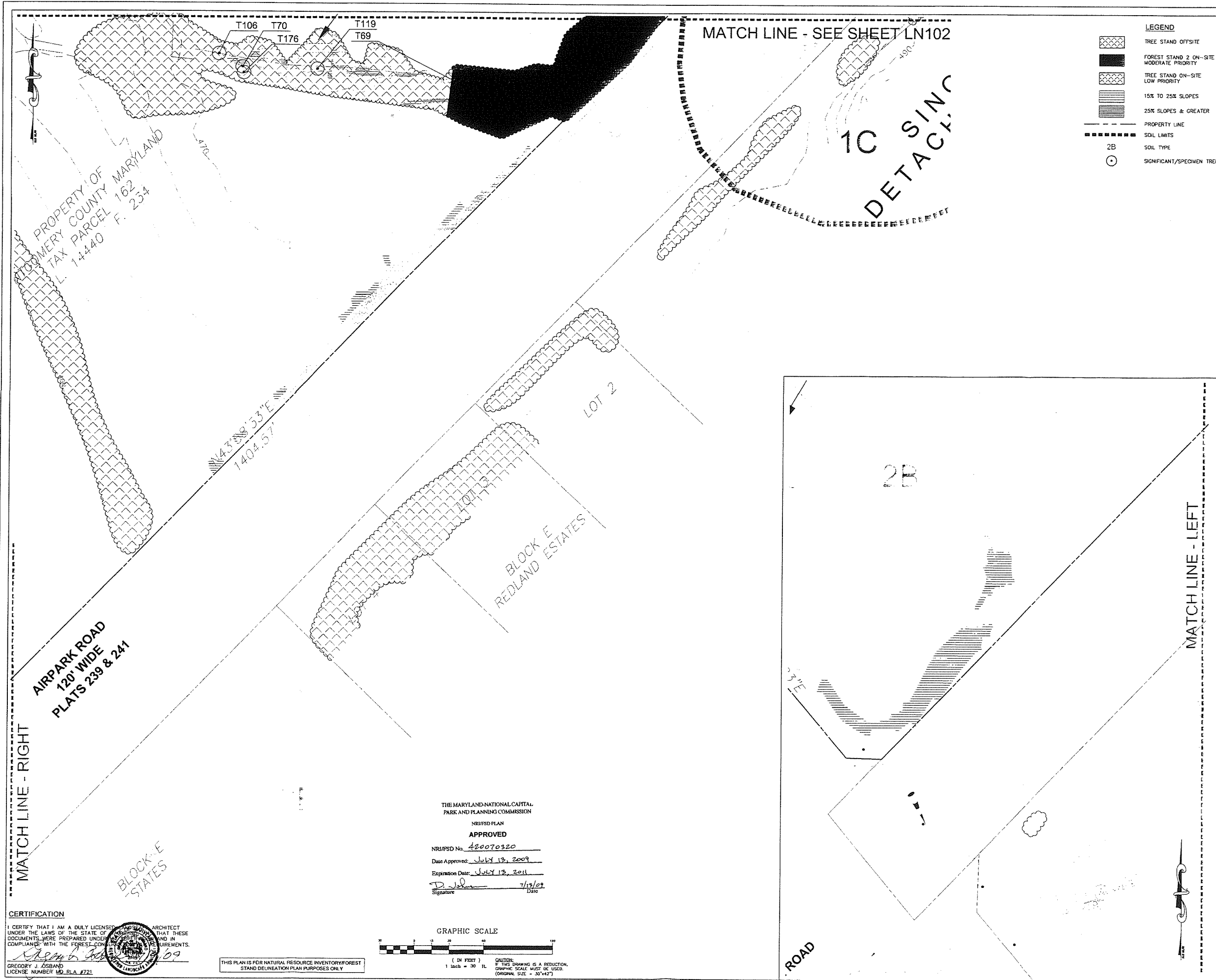
ISSUED FOR:
 PRELIMINARY/PROGRESS (NOT FOR CONST.)
 PERMIT
 CONSTRUCTION DOCUMENTS

SEAL

DESIGN DEVELOPMENT 30% PROGRESS SET
 © COPYRIGHT PROFITTT & ASSOCIATES ARCHITECTS

DESIGN	AES
DRAWN	AES
APPROVED	GJO
SCALE	1" = 100'-0"
DATE	07-09-09
CAD FILE	LN101-105482.DWG
PROJECT NO.	106-482

DRAWING TITLE
NATURAL RESOURCES INVENTORY / FOREST STAND DELINEATION
 DRAWING NO.
LN101
 JUL 10 2009



LEGEND

	TREE STAND OFFSITE
	FOREST STAND 2 ON-SITE MODERATE PRIORITY
	TREE STAND ON-SITE LOW PRIORITY
	15% TO 25% SLOPES
	25% SLOPES & GREATER
	PROPERTY LINE
	SOIL LIMITS
	SOIL TYPE
	SIGNIFICANT/SPECIMEN TREE

REVISIONS

OWNER:
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
101 MONROE STREET, 11TH FLOOR
ROCKVILLE MD 20850

ARCHITECT:
PROFFITT AND ASSOCIATES ARCHITECTS
100 NORTH MARKET STREET
FREDERICK, MARYLAND 21701
PHONE: 301-662-8532
FAX: 301-662-4192

ANIMAL SHELTER CONSULTANT:
BACON GROUP, INC.
2641 SUNSET POINT ROAD
CLEARWATER, FLORIDA 33759
PHONE: 727-725-0111
FAX: 727-725-0209


CIVIL ENGINEER:
A. WORTON THOMAS AND ASSOCIATES, INC.
12750 TWENBROOK PARKWAY
ROCKVILLE, MARYLAND 20852
PHONE: 301-881-2545
FAX: 301-881-2545

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER:
GPE ASSOCIATES, INC.
DURLANEY CENTER I, SUITE 102
849 FAIRMONT AVENUE
BALTIMORE, MARYLAND 21285
PHONE: 410-832-2420
FAX: 410-832-2418

STRUCTURAL ENGINEER:
ABEL CONSULTING ENGINEERS, P.A.
2055 COMPTON COURT, SUITE 210
GANTHERSBURG, MARYLAND 20877
PHONE: 201-258-8284
FAX: 301-258-1947

RFP #


DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF CAPITAL DEVELOPMENT



101 MONROE STREET, ELEVENTH FLOOR
ROCKVILLE, MARYLAND 20850-2640

ANIMAL SHELTER

7300 AIRPARK ROAD
GANTHERSBURG, MARYLAND 20879



PROFFITT AND ASSOCIATES ARCHITECTS
100 NORTH MARKET STREET
FREDERICK, MARYLAND 21701
PHONE: 301-662-8532
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info@proffittandassociates.com

ISSUED FOR:

- PRELIMINARY/PROGRESS (NOT FOR CONST.)
- PERMIT
- CONSTRUCTION DOCUMENTS

SEAL

DESIGN DEVELOPMENT 30% PROGRESS SET

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DESIGN	AES
DRAWN	AES
APPROVED	GJD
SCALE	1" = 30'-0"
DATE	07-09-09
CAD FILE	LN103-054492.DWG
PROJECT NO.	105-492
DRAWING NO.	

NATURAL RESOURCES INVENTORY / FOREST STAND DELINEATION

DRAWING NO. LN103

JUL 10 2009

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

NRI/PSD PLAN

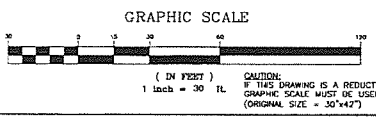
APPROVED

NRI/PSD No. 420070320

Date Approved: July 13, 2009


Expiration Date: July 13, 2011

 7/13/09
Signature Date



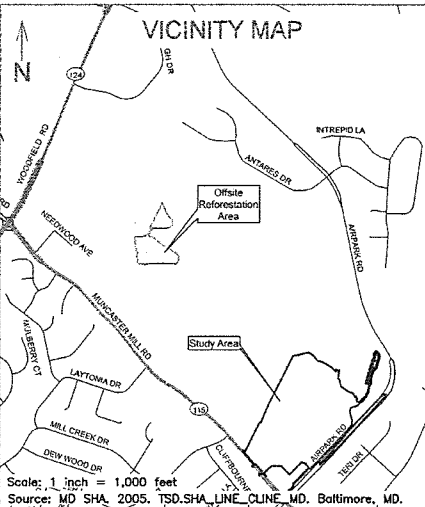
CERTIFICATION

I CERTIFY THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND AND THAT THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND IN COMPLIANCE WITH THE FOREST CONSERVATION REQUIREMENTS.



GREGORY J. OSBAND
LICENSE NUMBER MD_PLA #721

THIS PLAN IS FOR NATURAL RESOURCE INVENTORY/FOREST STAND DELINEATION PLAN PURPOSES ONLY.



M-NCPPC
Montgomery County Planning Department
Environmental Planning Section
APPROVAL
FOREST CONSERVATION PLAN

Approved by	Date
01	
02	
03	
04	
05	

LEGEND

- LOD — Limit of Disturbance
- SB — Stream Buffer
- TP — Tree Protection Fence
- ▲ Tree Preservation Sign
- △ Reforestation Sign
- Soil Series Boundary
- Existing 1ft. Contour
- Proposed Contour/Grading
- Proposed Forest Clearing
- Proposed Forest Preservation
- Proposed Reforestation Area
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- Hedgerow
- Critical Root Zone
- SSF --- Super Silt Fence
- SF --- Silt Fence
- Stream
- Wetlands

SCALE: 1"=200'

0 200 400

Straughan Environmental Services
 Designer's Name
 9135 Guilford Rd, Suite 100
 Address
 Columbia, MD 21046
 City/State/Zip
 301-362-9200
 Telephone Number

DESIGN

Nikki Radke		Justin Haynes
Project Engineer	Date	Checked By:
Project Manager	Date	Checked By:
Principal	Date	Checked By:
Drawn by	Date	Checked By:

THIS PLAN WAS PREPARED BY: NIKKI RADKE
 STRAUGHAN ENVIRONMENTAL SERVICES, INC.
 MARYLAND DEPARTMENT OF NATURAL RESOURCES
 QUALIFIED PROFESSIONAL STATUS (JAN. 28, 2009)

Nikki Radke 8/17/10
 DATE

NIKKI RADKE
 STRAUGHAN ENVIRONMENTAL SERVICES, INC.

**The Maryland-National Capital
 Park and Planning Commission**
 Montgomery County Department of Parks
 9500 Brunnet Avenue
 Silver Spring, Maryland 20901
 (301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON

REVISIONS	
Rev. No.	Date
1	5/13/10
2	6/8/10
3	6/10/10

LAYTONIA RECREATIONAL PARK

**Final Forest
 Conservation Plan**

Liber 14440 Folio 234
 26063 491

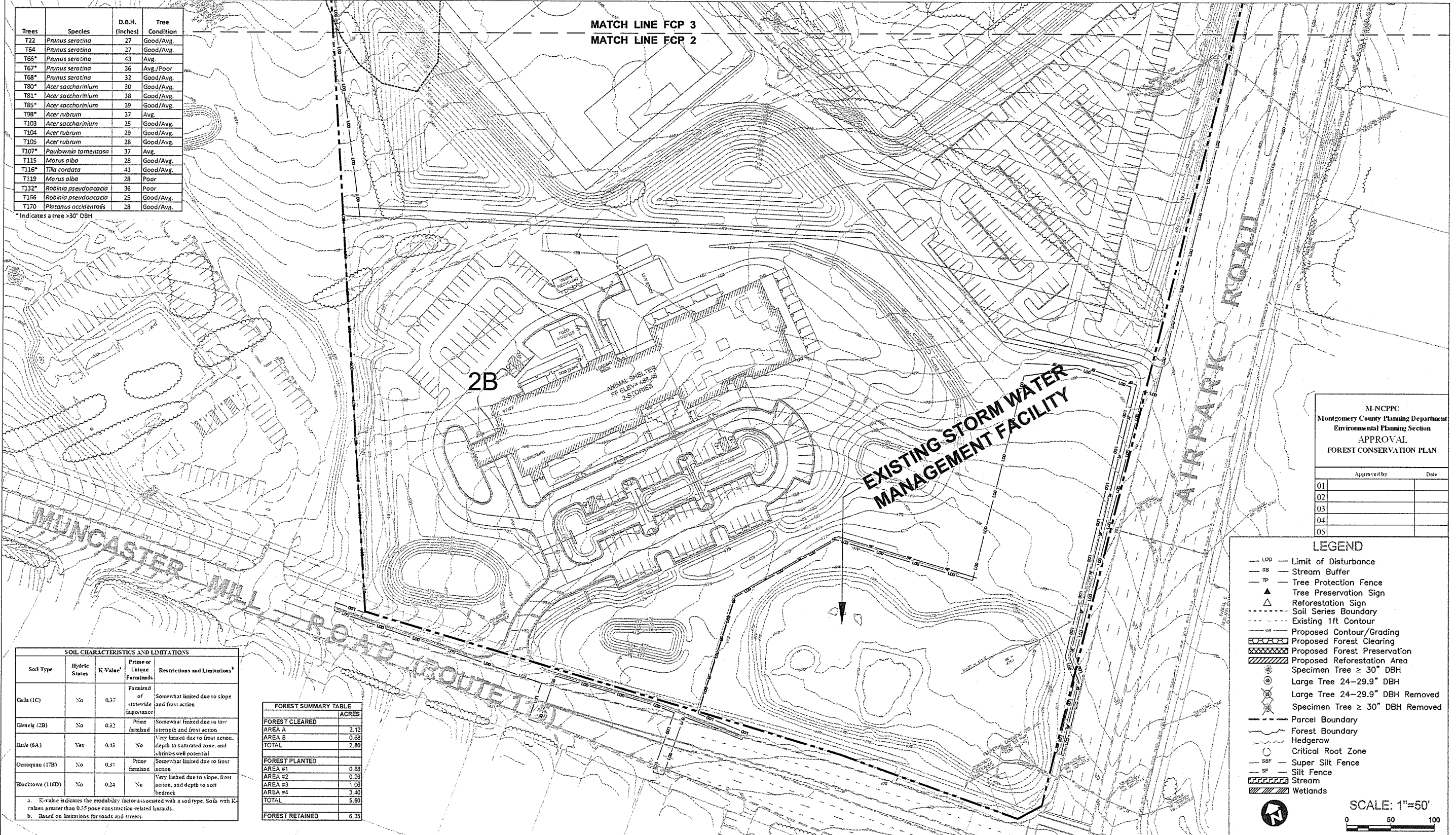
SCALE: AS SHOWN

DWG. #
FCP - 1
 SHT. # 1 of 7

Trees	Species	D.B.H. (Inches)	Tree Condition
T22	Prunus serotina	27	Good/Avg.
T64	Prunus serotina	27	Good/Avg.
T66*	Prunus serotina	43	Avg.
T67*	Prunus serotina	36	Avg./Poor
T68*	Prunus serotina	32	Good/Avg.
T80*	Acer saccharinum	30	Good/Avg.
T81*	Acer saccharinum	38	Good/Avg.
T85*	Acer saccharinum	39	Good/Avg.
T98*	Acer rubrum	37	Avg.
T103	Acer saccharinum	25	Good/Avg.
T104	Acer rubrum	25	Good/Avg.
T105	Acer rubrum	28	Good/Avg.
T107*	Paulownia tomentosa	37	Avg.
T115	Morus alba	28	Good/Avg.
T116*	Tilia cordata	43	Good/Avg.
T119	Morus alba	28	Poor
T132*	Robinia pseudoacacia	36	Poor
T166	Robinia pseudoacacia	25	Good/Avg.
T170	Platanus occidentalis	28	Good/Avg.

* Indicates a tree >30" DBH

MATCH LINE FCP 3
MATCH LINE FCP 2



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SCALE: 1"=50'

SOIL CHARACTERISTICS AND LIMITATIONS

Soil Type	Hydric Status	K-Value ^a	Prime or Unique Farmlands	Restrictions and Limitations ^b
Gaia (1C)	No	0.37	Farmind of state-side importance	Somewhat limited due to slope and frost action
Glenely (2B)	No	0.32	Prime farmland	Somewhat limited due to low strength and frost action
Baile (6A)	Yes	0.43	No	Very limited due to frost action, depth to saturated zone, and shrink-swell potential
Ocoquan (17B)	No	0.37	Prime farmland	Somewhat limited due to frost action
Blocktown (16D)	No	0.24	No	Very limited due to slope, frost action, and depth to soil bedrock

a. K-value indicates the erodibility factor associated with a soil type. Soils with K-values greater than 0.35 pose construction-related hazards.
b. Based on limitations for roads and streets.

FOREST SUMMARY TABLE

	ACRES
FOREST CLEARED	
AREA A	2.12
AREA B	0.68
TOTAL	2.80
FOREST PLANTED	
AREA #1	0.88
AREA #2	0.33
AREA #3	1.08
AREA #4	3.43
TOTAL	5.60
FOREST RETAINED	6.35

Straughan Environmental Services
 Designer's Name: 9135 Guilford Rd, Suite 100
 Address: Columbia, MD 21046
 City/State/Zip: 301-362-9200
 Telephone Number

DESIGN

Nikki Radke	Date	Justin Haynes	Checked By:
Project Engineer			
Project Manager	Date		Checked By:
Principal	Date		Checked By:
Drawn by	Date		Checked By:

THIS PLAN WAS PREPARED BY: NIKKI RADKE
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Nikki Radke 8/17/10
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The Maryland-National Capital Park and Planning Commission
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 9500 Brunet Avenue
 Silver Spring, Maryland 20901
 (301) 495-2535

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LAYTONIA RECREATIONAL PARK

Final Forest Conservation Plan

Liber 14440 Folio 234
 26063 491

SCALE: AS SHOWN

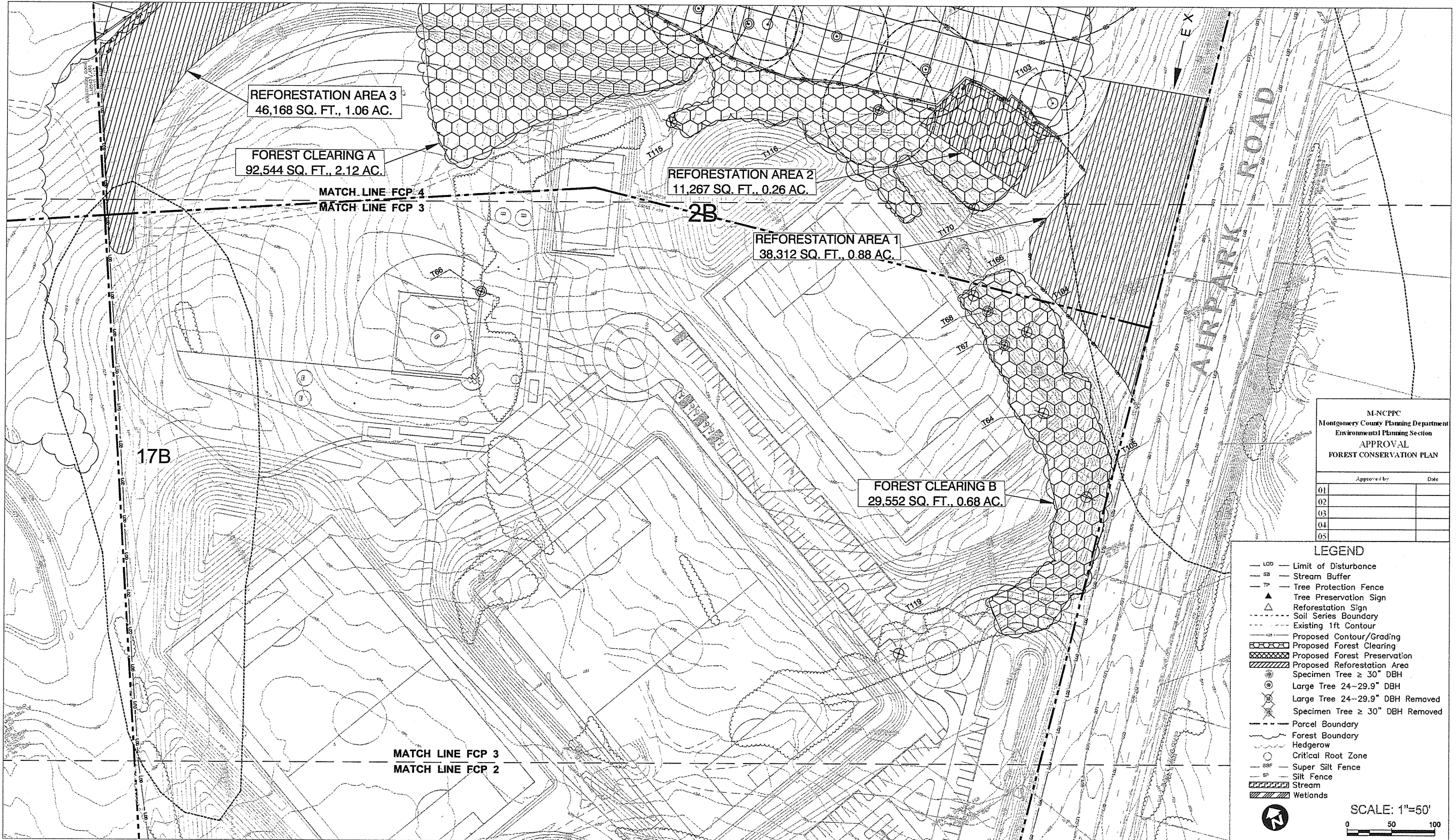
DWG. # **FCP - 2**
 SHT. # 2 of 7

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

E:\V990-001 Laytonia Park\CD\Drawings\FCP_2010\Sheet 3 Plotlet By: Nikki Radke, 6/17/2010 12:11 PM, 09c9a4a.eb



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Montgomery County Planning Department
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SCALE: 1"=50'

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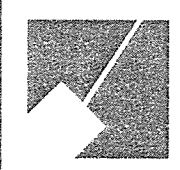
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Nikki Radke	Justin Haynes
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Date	Date
Project Manager	Checked By:
Date	Date
Printer:	Checked By:
Date	Date
Drawn by	Checked By:
Date	Date

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Nikki Radke 6/17/10
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The Maryland-National Capital
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Montgomery County Department of Parks
9500 Brunett Avenue
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(301) 495-2535

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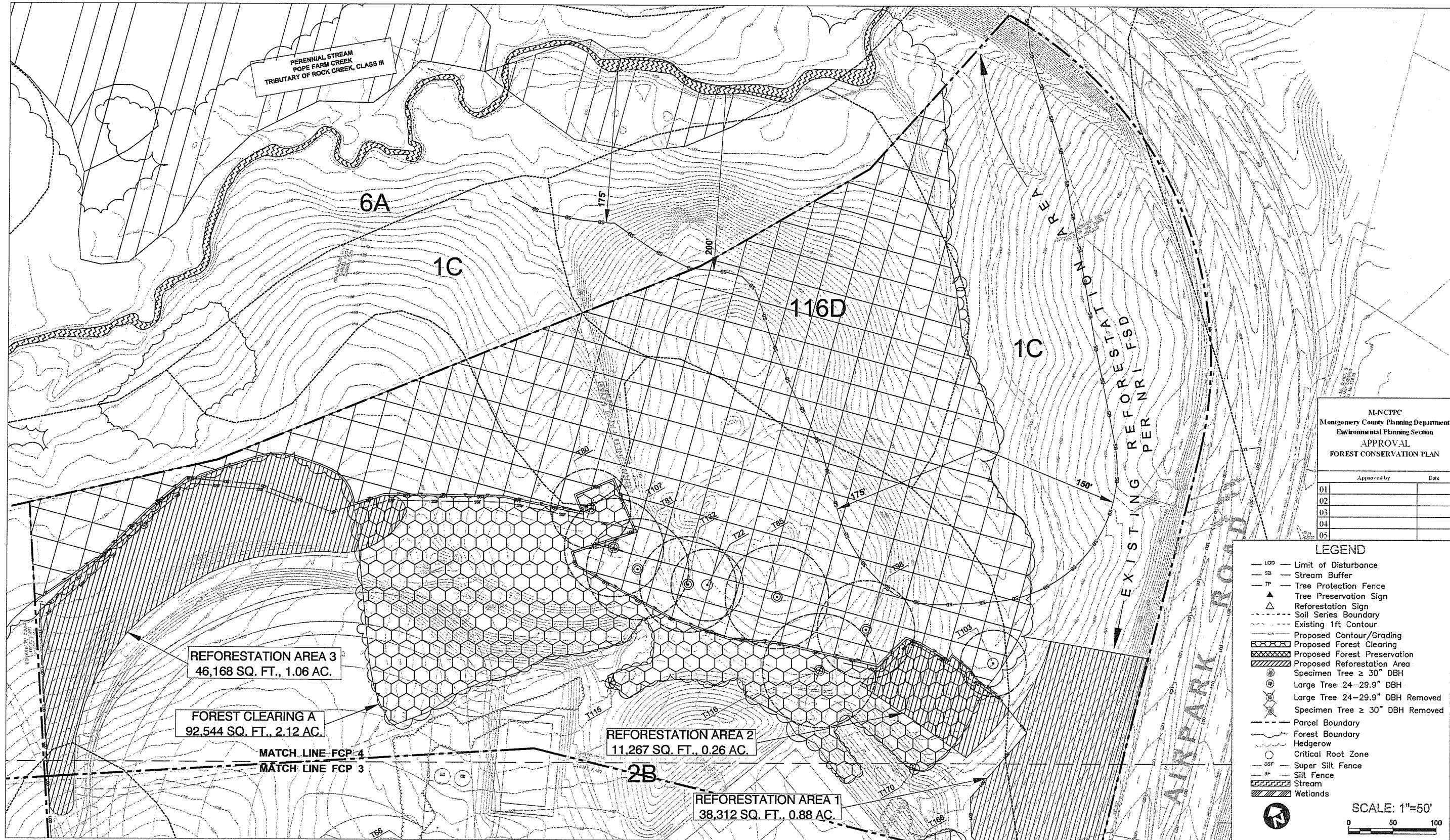
LAYTONIA RECREATIONAL PARK

**Final Forest
Conservation Plan**

SCALE: AS SHOWN

Liber 14440 Folio 234
26053 491

DWG. #
FCP - 3
SHT. # 3 of 7



M-NCPPC
Montgomery County Planning Department
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SCALE: 1"=50'
0 50 100

Straughan Environmental Services		DESIGN	
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	Project Manager	Date	Checked By:
	Principal	Date	Checked By:
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Construction Manager	Date	1	5/13/10
Park Manager	Date	2	6/6/10
		3	6/10/10

LAYTONIA RECREATIONAL PARK
Final Forest Conservation Plan
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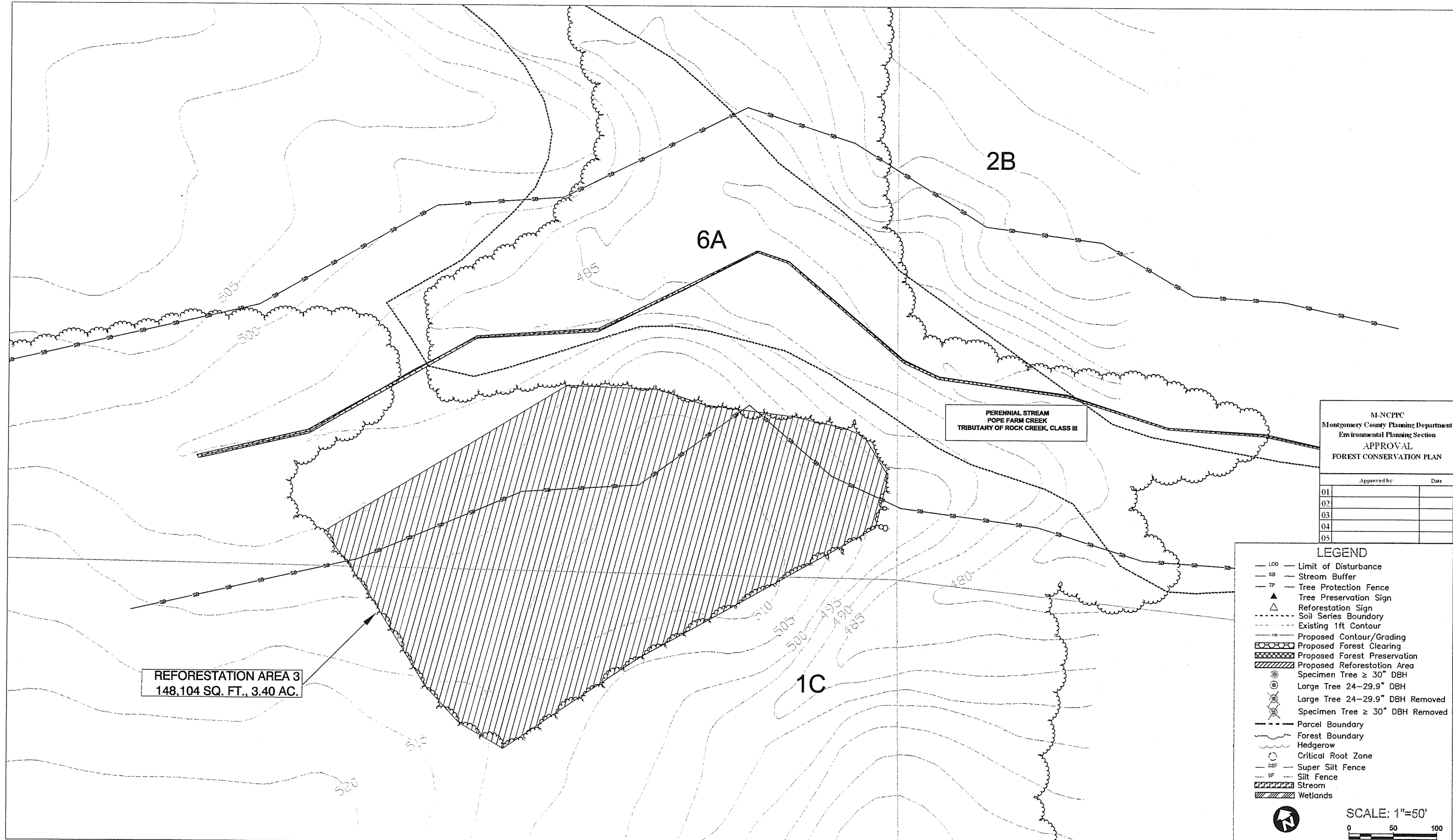
DWG.#
FCP - 4
SHT.# 4 of 7

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

EA 7807-003 Layouts Final\City\City\FCPS_10.dwg Sheet 5 Plotted By: Nikki Radke, 8/17/2010 11:28 AM, 07/28/2010



M-NCPPC
Montgomery County Planning Department
Environmental Planning Section
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Construction Manager	Date
Park Manager	Date

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3	8/19/10	

LAYTONIA RECREATIONAL PARK
 Final Forest Conservation Plan
 SCALE: AS SHOWN
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 28053 491

DWG. # **FCP - 5**
 SHT. # 5 of 7

REFORESTATION INSPECTION AND PLANTING NARRATIVE

1. REFORESTATION INSPECTION SCHEDULE
THERE SHALL BE FIVE INSPECTIONS FOR FOREST CONSERVATION.
A. THE FIRST INSPECTION SHALL OCCUR AFTER FLAGGING/STAKING OF THE L.O.D. AND/OR STREAM BUFFERS, AND PRIOR TO ANY CLEARING, GRADING OR SEDIMENT CONTROL MEASURES. THIS INSPECTION IS TO ADDRESS THE ISSUES OF TREE PROTECTION AND SEDIMENT CONTROL. THE DEVELOPER, ARBORIST AND REPRESENTATIVES FROM MNCPPC AND MDCFP WILL MEET TO WALK THE PROPOSED LIMITS OF DISTURBANCE AND DETERMINE THE FINAL LOCATIONS OF SEDIMENT CONTROL DEVICES AND TREE PROTECTION DEVICES.
B. THE SECOND INSPECTION SHALL OCCUR AFTER PLACEMENT OF SEDIMENT CONTROL DEVICES AND TREE PROTECTION DEVICES, AND PRIOR TO CLEARING AND GRADING. THIS INSPECTION IS TO DETERMINE THE COMPLETION AND ADEQUACY OF PROTECTIVE MEASURES.
C. THE THIRD INSPECTION SHALL OCCUR PRIOR TO PLANTING IN REFORESTATION AREAS. THIS PRE-PLANTING INSPECTION IS TO MAKE FINAL DECISIONS REGARDING THE BEST IMPLEMENTATION OF THE PLANTING PLAN, INCLUDING, BUT NOT LIMITED TO, THE FINAL PLACEMENT AND SELECTION OF PLANT SPECIES, DETERMINATION OF THE REGENERATION POTENTIAL OF EXISTING PLANTS TO REMAIN, AND A DETERMINATION OF THE BEST EDGE PLANTING TREATMENT. THE PURCHASE AND DELIVERY OF PLANT MATERIALS SHOULD NOT BE MADE UNTIL AFTER THIS INSPECTION, SINCE A DETERMINATION MAY BE MADE IN THE FIELD TO ALTER THE CHOICE OF PLANT MATERIAL.
D. THE FOURTH INSPECTION SHALL OCCUR IMMEDIATELY FOLLOWING THE COMPLETION OF THE REFORESTATION PLANTING. THIS INSPECTION IS TO DETERMINE THE COMPLETION AND ADEQUACY OF THE PLANTING.
E. THE FIFTH AND FINAL INSPECTION SHALL OCCUR TWO YEARS AFTER INSTALLATION OF THE PLANTINGS. THE PURPOSE OF THIS INSPECTION IS TO DETERMINE THE SUCCESS OF PLANTING AND ADEQUACY OF THE MAINTENANCE PROGRAM FOR RELEASE OF THE BOND AND TO DETERMINE WHETHER ADDITIONAL PLANTINGS AND A FURTHER MAINTENANCE PROGRAM ARE NECESSARY.
2. PRE-PLANTING CONSIDERATIONS
A. IN AREAS WITH SUBSTANTIAL GROWTH OF INVASIVE GROUND COVER SPECIES, MEASURES SHALL BE TAKEN TO REMOVE AND CONTROL INVASIVES. THE INFESTED AREAS SHOULD BE MOWN PRIOR TO COMMENCEMENT OF PLANTING. NECESSARY WEED CONTROL MEASURES SHOULD BE DETERMINED DURING THE PRE-PLANTING INSPECTION, INCLUDING, BUT NOT LIMITED TO, MULCHING, PERIODIC MOWING AROUND THE REFORESTATION PLANTINGS, AND FABRIC COVERINGS. THE USE OF CHEMICAL WEED CONTROLS WILL BE LIMITED TO EXTREME CASES AND ONLY WITH PRIOR WRITTEN APPROVAL BY MDCFP STAFF. WHERE PERIODIC MOWING WILL OCCUR AS A WEED CONTROL MEASURE, THE TYPICAL TREE PLANTING DISTRIBUTION PATTERN SHOULD BE MODIFIED SO AS TO ALLOW ACCESS BY MOWING EQUIPMENT WITHOUT DAMAGE TO PLANTINGS.
B. A SOILS ANALYSIS WILL BE CONDUCTED PRIOR TO COMMENCEMENT OF REFORESTATION. ON LAND WHERE EXTENSIVE AGRICULTURAL USE HAS OCCURRED IN THE PAST, TEST PITS WILL BE DUG IN AREAS OF UNDISTURBED SOIL TO DETERMINE IF A FRAGIPAN LAYER IS PRESENT. IF FRAGIPAN IS PRESENT, IT SHOULD BE PIERCED BY AUGURING AND PLANTING HOLES SHOULD BE DUG TO TWICE THE NORMAL DIAMETER FOR THE MATERIAL PLANTED.
C. SOILS SHOULD BE TREATED BY INCORPORATING NATURAL MULCH WITHIN THE TOP 12 INCHES, OR AMENDMENTS AS DETERMINED BY THE SOILS ANALYSIS. NATURAL AMENDMENTS, SUCH AS ORGANIC MULCH OR LEAF MOLD COMPOST ARE PREFERRED.
D. IF FILL MATERIAL IS USED AT THE PLANTING SITE, IT SHOULD BE CLEAN FILL WITH 12 INCHES OF NATIVE SOIL. STOCKPILING OF NATIVE TOP SOILS MUST BE DONE IN SUCH A WAY THAT THE HEIGHT OF THE PILE DOES NOT DAMAGE THE SEED BANK.
3. PLANT AMENDMENT MATERIAL STORAGE
IT IS RECOMMENDED THAT PLANTING OCCUR WITHIN 24 HOURS OF DELIVERY TO THE SITE. PLANT MATERIALS WHICH ARE LEFT UNPLANTED FOR MORE THAN 24 HOURS SHOULD BE PROTECTED FROM DIRECT SUN AND WEATHER AND KEPT MOIST. NURSERY STOCK SHOULD NOT BE LEFT UNPLANTED FOR MORE THAN TWO (2) WEEKS.
4. ON-SITE INSPECTION
PRIOR TO PLANTING, PLANTING STOCK SHOULD BE INSPECTED. PLANTS NOT CONFORMING TO STANDARD NURSERYMAN SPECIFICATIONS FOR SIZE, FORM, VIGOR, ROOTS, TRUNK WOUNDS, INSECTS, AND DISEASE SHOULD BE REPLACED.
5. PLANTING SPECIFICATIONS
A. CONTAINER GROWN STOCK: SUCCESSFUL PLANTING OF CONTAINER GROWN STOCK REQUIRES CAREFUL SITE PREPARATION AND INSPECTION OF THE PLANT MATERIAL ROOT SYSTEM. CAUTION IS RECOMMENDED WHEN SELECTING PLANTS GROWN IN A SOILS MEDIUM DIFFERING FROM THAT OF THE PLANTING SITE. THE PLANT SHOULD BE REMOVED FROM THE CONTAINER AND THE ROOTS GENTLY LOOSENED FROM THE SOILS. IF THE ROOTS ENIRCLE THE ROOT BALL, SUBSTITUTION IS STRONGLY RECOMMENDED. J-SHAPED OR KINKED ROOT SYSTEMS SHOULD ALSO BE NOTED, AND SUBSTITUTED IF NECESSARY. ROOTS MAY NOT BE TRIMMED ON-SITE, DUE TO THE INCREASED CHANCES OF SOIL BORNE DISEASES. THE PLANTING FIELD SHOULD BE PREPARED AS SPECIFIED. NATIVE STOCKPILED SOILS SHOULD BE USED TO BACKFILL PLANTING FIELD. RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.
B. BALLED AND BURLAPPED TREES: BALLED AND BURLAPPED TREES MUST BE HANDLED WITH CARE WHILE PLANTING. TREES SHOULD NOT BE PICKED UP BY THE TRUNK OR DROPPED. AS BOTH PRACTICES WILL TEND TO SEPARATE THE TRUNK FROM THE ROOT BALL. PRIOR TO PLANTING, ROOT BALLS SHOULD BE KEPT MOIST.
C. PLANTING FIELDS SHOULD BE CREATED EQUAL TO 2.5 TIMES THE DIAMETER OF THE ROOT BALL. USE WATERING TO SETTLE SOIL BACKFILLED AROUND TREES. STOCKPILED NATIVE TOP SOILS, IF AVAILABLE, SHOULD BE USED TO BACKFILL THE PLANTING FIELD. AMENDMENTS ARE NOT RECOMMENDED IN THE PLANTING FIELD. AS STUDIES HAVE SHOWN THAT ROOTS WILL BE ENCOURAGED TO STAY WITHIN THE AMENDED SOILS. SOILS SHOULD BE RAKED EVENLY OVER THE PLANTING FIELD AND COVERED WITH 2 TO 4 INCHES OF MULCH.
D. STAKING OF TREES IS NOT RECOMMENDED EXCEPT IN AREAS OF HIGH WINDS. MOVEMENT IS NECESSARY TO STRENGTHEN THE TRUNK OF THE PLANTED TREE. IF STAKES ARE USED, THEY SHOULD BE REMOVED AFTER THE FIRST GROWING SEASON. WRAPPING IS ALSO NOT RECOMMENDED DUE TO THE INCREASED OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE.
6. POST-PLANTING CONSIDERATIONS
A. SOIL STABILIZATION: FOR AREAS OF LARGE-SCALE DISTURBANCE, SOILS MUST BE STABILIZED USING A NON-TURF-BUILDING GROUND COVER OR ENGINEERING FABRIC.
B. PROTECTIVE DEVICES: TO PREVENT DAMAGE OF PLANTED AREAS, ALL REFORESTATION AND AFFORESTATION SITES MUST BE POSTED WITH APPROPRIATE SIGNS AND FENCED. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED IN THESE AREAS.

SEQUENCE OF EVENTS FOR PROPERTY OWNERS REQUIRED TO COMPLY WITH FOREST CONSERVATION AND/OR TREE-SAVE PLANS

PRE-CONSTRUCTION
1. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS. THE PROPERTY OWNER SHOULD CONTACT THE MONTGOMERY COUNTY PLANNING DEPARTMENT INSPECTION STAFF BEFORE CONSTRUCTION TO VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS TREE PROTECTION AND TREE CARE MEASURES. THE DEVELOPER'S REPRESENTATIVE, CONSTRUCTION SUPERINTENDENT, ISA CERTIFIED ARBORIST OR MARYLAND-LICENSED TREE EXPERT THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES, FOREST CONSERVATION INSPECTOR, AND DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR SHOULD ATTEND THIS PRE-CONSTRUCTION MEETING.
2. NO CLEARING OR GRADING SHALL BEGIN BEFORE STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED. APPROPRIATE MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO:
I. ROOT PRUNING
II. CROWN REDUCTION OR PRUNING
III. WATERING
IV. FERTILIZING
V. VERTICAL MULCHING
VI. ROOT AERATION MATTING
MEASURES NOT SPECIFIED ON THE FOREST CONSERVATION PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE ARBORIST.
3. A MARYLAND-LICENSED TREE EXPERT OR AN INTERNATIONAL SOCIETY OF ARBORICULTURE-CERTIFIED ARBORIST MUST PERFORM ALL STRESS REDUCTION MEASURES. DOCUMENTATION OF STRESS REDUCTION MEASURES MUST BE EITHER OBSERVED BY THE FOREST CONSERVATION INSPECTOR OR SENT TO THE INSPECTOR AT 8787 GEORGIA AVENUE, SILVER SPRING, MD 20910. THE FOREST CONSERVATION INSPECTOR WILL DETERMINE THE EXACT METHOD TO CONVEY THE STRESS REDUCTIONS MEASURES DURING THE PRE-CONSTRUCTION MEETING.
4. TEMPORARY TREE PROTECTION DEVICES SHALL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND PRIOR TO ANY CONSTRUCTION ACTIVITIES. TREE PROTECTION FENCING LOCATIONS SHOULD BE STAKED PRIOR TO THE PRE-CONSTRUCTION MEETING. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN. TEMPORARY TREE PROTECT DEVICES MAY INCLUDE:
A. CHAIN LINK FENCE (FOUR FEET HIGH)
B. SUPER SILT FENCE WITH WIRE STRUNG BETWEEN SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
C. 14 GAUGE 2 INCH X 4 INCH WELDED WIRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
5. TEMPORARY PROTECTION DEVICES SHALL BE MAINTAINED AND INSTALLED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. NO EQUIPMENT, TRUCKS, MATERIALS, OR DEBRIS MAY BE STORED WITHIN THE TREE PROTECTION FENCE AREAS DURING THE ENTIRE CONSTRUCTION PROJECT. NO VEHICLE OR EQUIPMENT ACCESS TO THE FENCED AREA WILL BE PERMITTED. TREE PROTECTION SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL OF FOREST CONSERVATION INSPECTOR.
6. FOREST RETENTION AREA SIGNS SHALL BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR, OR AS SHOWN ON THE APPROVED PLAN.
7. LONG-TERM PROTECTION DEVICES WILL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND ATTACHED DETAILS. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE PLAN DRAWING FOR LONG-TERM PROTECTION MEASURES TO BE INSTALLED.
DURING CONSTRUCTION
8. PERIODIC INSPECTIONS BY THE FOREST CONSERVATION INSPECTOR WILL OCCUR DURING THE CONSTRUCTION PROJECT. CORRECTIONS AND REPAIRS TO ALL TREE PROTECTION DEVICES, AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR, MUST BE MADE WITHIN THE TIMEFRAME ESTABLISHED BY THE INSPECTOR.
POST-CONSTRUCTION
9. AFTER CONSTRUCTION IS COMPLETED, AN INSPECTION SHALL BE REQUESTED. CORRECTIVE MEASURES MAY INCLUDE:
A. REMOVAL AND REPLACEMENT OF DEAD AND DYING TREES
B. PRUNING OF DEAD OR DECLINING LIMBS
C. SOIL AERATION
D. FERTILIZATION
E. WATERING
F. WOUND REPAIR
G. CLEAN UP OF RETENTION AREAS
10. AFTER INSPECTION AND COMPLETION OF CORRECTIVE MEASURES HAVE BEEN UNDERTAKEN, ALL TEMPORARY PROTECTION DEVICES SHALL BE REMOVED FROM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH THE DEPARTMENT OF PERMITTING SERVICES AND THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SOODING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

NOTES FROM APPROVED NRI

- 1. THERE ARE NO READILY OBSERVABLE RARE, THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITATS ON THIS SITE.
2. THERE ARE RECORDS OF HISTORIC OR CULTURAL RESOURCES ON THIS SITE. THE DAVID GRIFFITH FARM CORNCRIB, WILLIAM BASIL MOBLEY FARM TENANT HOUSE ARE DESCRIBED IN THE LAYTONIA RECREATION PARK FACILITY PLAN - OCTOBER 2001. THE REPORT SUGGESTS THAT NONE OF THESE STRUCTURES ARE ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.
3. THERE ARE NO MONTGOMERY COUNTY OR STATE CHAMPION TREES ON THIS PARCEL. NO TREES ON THE PARCEL HAVE A DBH ≥ 75% OF THE COUNTY OR STATE CHAMPION.
4. THERE IS NO FLOODPLAIN ASSOCIATED WITH THIS PROPERTY.
5. THIS SITE IS LOCATED WITHIN THE UPPER ROCK CREEK SPA.

ENVIRONMENTAL SUMMARY

Table with 2 columns: Description and Value. Includes rows for Acreage of Tract (48.10), Agricultural Use (0.00), Stream Valley Buffer (4.11), Total Existing Forest (9.15), Total Forest Retention (6.35), Total Forest Cleared (2.80), Land Use Category (IDA: 15%/20%), Conservation Law, Forest Retained/Cleared (0.00), Forest Retained/Cleared (0.00), Forest Retained/Cleared (2.42), Forest Retained/Cleared (0.00), Forest Retained/Cleared (0.00), Linear Feet and Average Width of Stream Buffer (400, 160).

Table: TREES FOR REMOVAL GREATER THAN 30" DBH. Columns: Trees, Species, D.B.H. (inches), Tree Condition, Critical Root Zone Radius (ft), Critical Root Zone (sq. ft.). Rows include T66* (Prunus serotina), T67* (Prunus serotina), T68* (Prunus serotina), T80* (Acer saccharinum), T107* (Paulownia tomentosa), T116* (Tilia cordata).

EXISTING SPECIMEN TREES

Table with 4 columns: Trees, Species, D.B.H. (inches), Tree Condition. Rows include T22 (Prunus serotina), T64 (Prunus serotina), T66* (Prunus serotina), T67* (Prunus serotina), T68* (Prunus serotina), T80* (Acer saccharinum), T81* (Acer saccharinum), T85* (Acer saccharinum), T98* (Acer rubrum), T103 (Acer rubrum), T104 (Acer rubrum), T105 (Acer rubrum), T107* (Paulownia tomentosa), T115 (Morus alba), T116* (Tilia cordata), T119 (Morus alba), T132* (Robinia pseudoacacia), T166 (Robinia pseudoacacia), T170 (Platanus occidentalis).

FOREST SUMMARY TABLE

Table: FOREST SUMMARY TABLE. Columns: Forest Cleared (Acres), Forest Planted (Acres), Forest Retained (Acres). Rows include Area A (2.12), Area B (0.68), Total (2.80), Area #1 (0.88), Area #2 (0.26), Area #3 (1.06), Area #4 (3.40), Total (5.60), Forest Retained (6.35).

FOREST CONSERVATION WORKSHEET

NET TRACT AREA: Laytonia Recreational Park
A. Total tract area ... 48.10
B. Land dedication acres (parks, county facility, etc.) ... 0.00
C. Land dedication for roads or utilities (not being constructed by this plan) ... 0.00
D. Area to remain in commercial agricultural production/use ... 0.00
E. Other deductions (specify) ... 0.00
F. Net Tract Area ... 48.10
LAND USE CATEGORY: (from Trees Technical Manual)
Input the number "1" under the appropriate land use, limit to only one entry.
ARA MDR IDA HDR MPD CIA
0 0 1 0 0 0
G. Afforestation Threshold ... 15% x F = 7.22
H. Conservation Threshold ... 20% x F = 9.62
EXISTING FOREST COVER:
I. Existing forest cover ... 9.15
J. Area of forest above afforestation threshold ... 1.94
K. Area of forest above conservation threshold ... 0.00
BREAK EVEN POINT:
L. Forest retention above threshold with no mitigation ... 0.00
M. Clearing permitted without mitigation ... 0.00
PROPOSED FOREST CLEARING:
N. Total area of forest to be cleared ... 2.80
O. Total area of forest to be retained ... 6.35
PLANTING REQUIREMENTS:
P. Reforestation for clearing above conservation threshold ... 0.00
Q. Reforestation for clearing below conservation threshold ... 5.60
R. Credit for retention above conservation threshold ... 0.00
S. Total reforestation required ... 5.60
T. Total afforestation required ... 0.00
U. Credit for landscaping (may not exceed 20% of "S") ... 0.00
V. Total reforestation and afforestation required ... 5.60

SOIL CHARACTERISTICS & LIMITATIONS

Table with 4 columns: Soil Type, Hydraulic Status, K-value, Prime or Unique Farmlands, Restrictions and Limitations. Rows include Gads (1C), Genes (3B), Bala (6A), Occoquan (17B), Blacktown (116D).

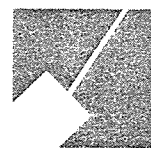
REFORESTATION SCHEDULE

Table with 10 columns: Size (caliper), Botanical Name, Common Name, Planting Rate, Approximate Spacing, Quantity Reforestation Area 1, Quantity Reforestation Area 2, Quantity Reforestation Area 3, Quantity Reforestation Area 4, TOTALS. Rows include Deciduous Forest, 3/4" - 1" Prunus serotina, 3/4" - 1" Quercus alba, 3/4" - 1" Quercus phellos, 3/4" - 1" Acer rubrum, 3/4" - 1" Diospyros virginiana, 3/4" - 1" Liriodendron tulipifera, 3/4" - 1" Quercus rubra, Understory, 3 GAL Ilex opaca, 3 GAL Cercis canadensis, 3 GAL Viburnum acerifolium, 3 GAL Viburnum dentatum, 3 GAL Amelanchier arborea.

M-NCPPC Montgomery County Planning Department Environmental Planning Section APPROVAL FOREST CONSERVATION PLAN. Includes fields for Approved by and Date, and a table for tracking approvals.

Straghan Environmental Services DESIGN. Includes fields for Designer's Name (Nikki Radke), Project Engineer (Justin Haynes), Address (9135 Guilford Rd, Suite 100, Columbia, MD 21046), City/State/Zip (301-382-9203), Telephone Number, and a table for tracking design approvals.

THIS PLAN WAS PREPARED BY: NIKKI RADKE STRAGHAN ENVIRONMENTAL SERVICES, INC. MARYLAND DEPARTMENT OF NATURAL RESOURCES QUALIFIED PROFESSIONAL STATUS (JAN. 28, 2009)
Nikki Radke 6/11/10 DATE
NIKKI RADKE STRAGHAN ENVIRONMENTAL SERVICES, INC.



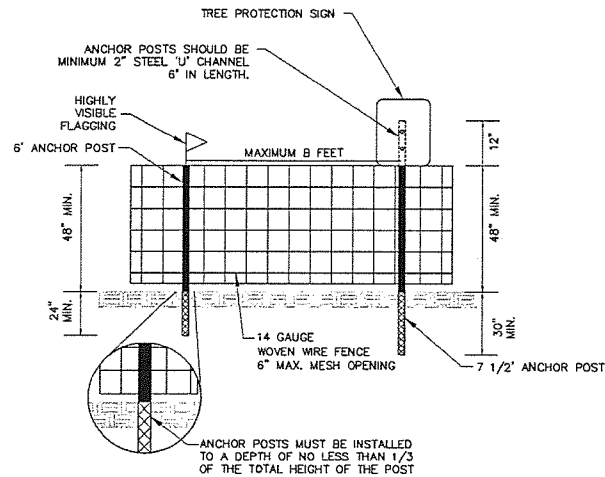
The Maryland-National Capital Park and Planning Commission
Montgomery County Department of Parks
9500 Brimmet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL. Includes fields for Project Manager, Construction Manager, Park Manager, and a table for tracking review and approval dates.

ISSUED FOR PROCUREMENT ON. Includes fields for Revision No. and Date, and a table for tracking procurement revisions.

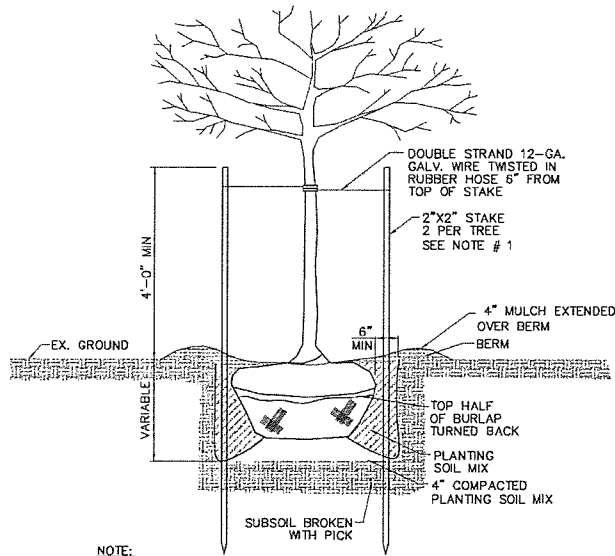
LAYTONIA RECREATIONAL PARK Final Forest Conservation Plan. Includes fields for Scale (AS SHOWN), Liber (14440), Folio (234), and SHT. # (6 of 7).

DWG. # FCP - 6



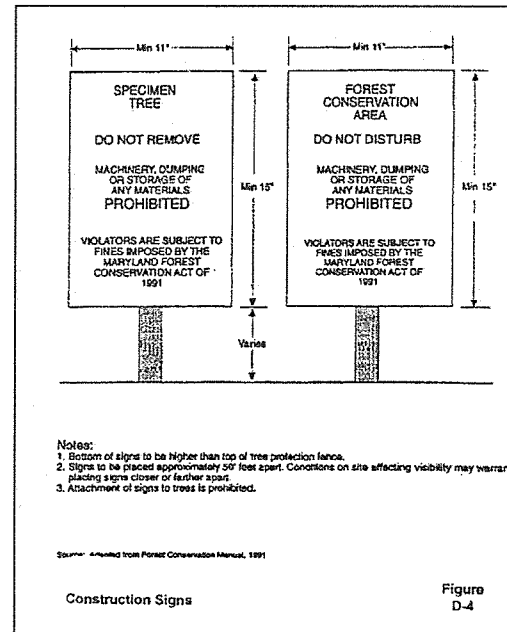
- NOTES:**
1. THE BOUNDARIES OF THE LIMITS OF DISTURBANCE SHOULD BE STAKED AND FLAGGED PRIOR TO ERECTING THE PROTECTIVE DEVICE.
 2. AVOID DAMAGE TO CRITICAL ROOT ZONES OF TREES. ANCHOR POSTS SHOULD BE PLACED TO AVOID SEVERING OR DAMAGING LARGE TREE ROOTS.
 3. FENCING MATERIAL SHOULD BE FASTENED SECURELY TO THE ANCHOR POSTS WITH FENCE WIRE.
 4. FENCE SIGNS, AND THEREFORE, THE TALLER 7 1/2" POSTS, MUST BE PLACED A MINIMUM OF 50' APART AND AT FENCE CORNERS. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FURTHER APART. ATTACHING SIGNS TO TREES IS PROHIBITED.
 5. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

WOVEN WIRE TREE PROTECTION FENCE
NOT TO SCALE

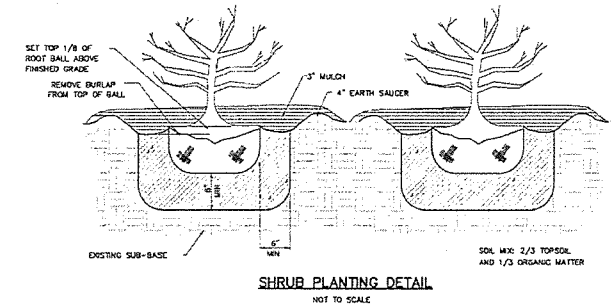


- NOTE:**
1. STAKING SHOWN ON THIS DETAIL IS FOR DECIDUOUS AND EVERGREEN TREES UNDER 4" CALIPER AND 6' OR MORE IN HEIGHT. STAKE TREES ONLY IN AREAS OF HIGH WIND. REMOVE AFTER FIRST GROWING SEASON.
 2. NO STAKING REQUIRED FOR STREET TREES. CONTRACTOR RESPONSIBLE FOR KEEPING STREET TREES STRAIGHT.

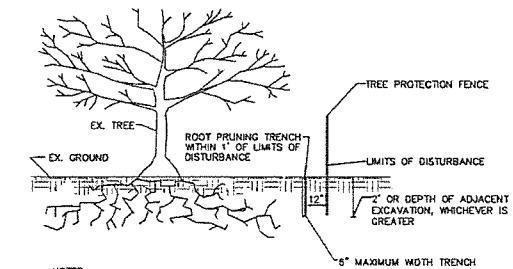
PLANTING DETAIL
NOT TO SCALE



CONSTRUCTION SIGNS
SOURCE: STATE FOREST CONSERVATION TECHNICAL MANUAL
TREE PROTECTION CONSTRUCTION SIGNS
NOT TO SCALE

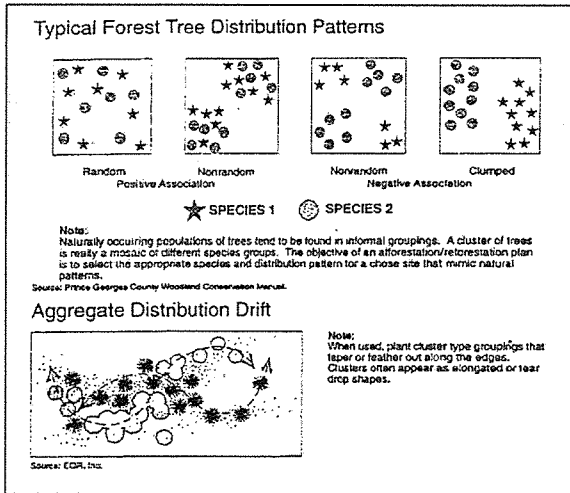


SHRUB PLANTING DETAIL
NOT TO SCALE

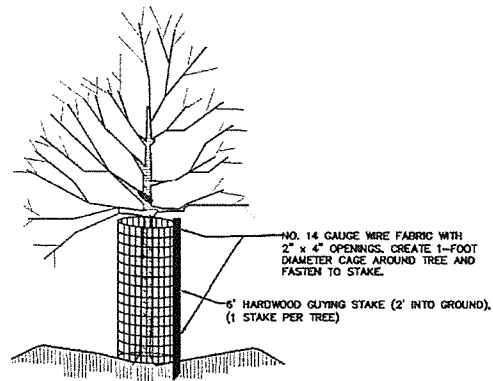


- NOTES:**
1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 2. BOUNDARIES OF RETENTION AREAS TO BE STAKED, FLAGGED, AND/OR FENCED PRIOR TO TRENCHING.
 3. EXACT LOCATION OF TRENCH SHOULD BE SIGNIFIED.
 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR ORGANIC SOIL.
 5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
 6. ALL ROOT PRUNING MUST BE PERFORMED BY A MARYLAND LICENSED ARBORIST.

ROOT PRUNING DETAIL
NOT TO SCALE

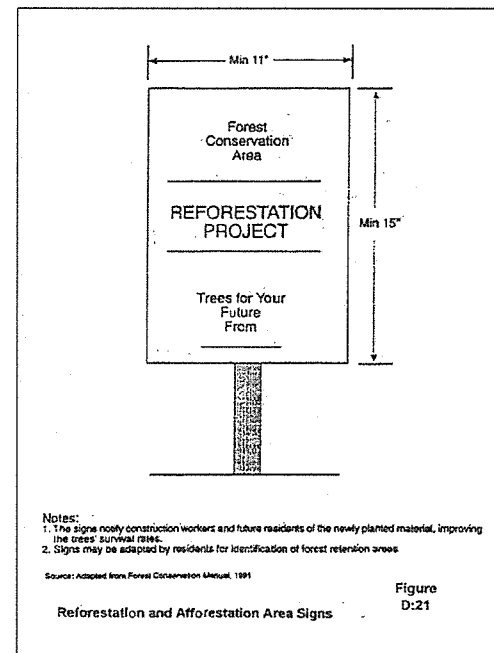


PLANTING DISTRIBUTION PATTERN
SOURCE: STATE FOREST CONSERVATION TECHNICAL MANUAL
NOT TO SCALE



- NOTES:**
1. HEIGHT OF CAGE SHALL BE 4- FEET (MIN.)
 2. CAGE SHALL BE FASTENED TO STAKE WITH TWO (MIN.) 11-INCH RELEASABLE CABLE TIES (ONE AT TOP AND ONE 6" (MIN.) ABOVE THE GROUND).
 3. DO NOT DAMAGE TREE DURING INSTALLATION.
 4. DEER BARK PROTECTORS (ITEM #Rq48, BY A.M. LEONARD, OR EQUAL) MAY BE SUBSTITUTED FOR TREES GREATER THAN 3/4" CALIPER. ALL OTHER SUBSTITUTIONS MUST BE APPROVED BY FOREST ECOLOGIST.
 5. CAGES TO BE REMOVED AT DIRECTION OF FOREST ECOLOGIST.
 6. ENSURE CAGE IS SECURE TO GROUND TO PREVENT UPLIFT BY DEER.

DEER PROTECTION FENCING DETAIL
NOT TO SCALE

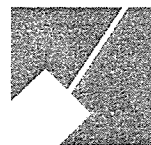


REFORESTATION AND AFFORESTATION AREA SIGNS
SOURCE: ADAPTED FROM FOREST CONSERVATION MANUAL, 1991
2 YEAR TREE PROTECTION SIGN
NOT TO SCALE

M-NCPPC Montgomery County Planning Department Environmental Planning Section	
APPROVAL	
FOREST CONSERVATION PLAN	
Approved by	Date
01	
02	
03	
04	
05	

Straughan Environmental Services		DESIGN	
Designer's Name	9135 Guilford Rd, Suite 100	Nikki Radtke	Justin Haynes
Address	Columbia, MD 21046	Project Engineer	Date
City/State/Zip	301-362-9200	Project Manager	Date
Telephone Number		Principal	Date
		Drawn by	Date
		Checked By:	

THIS PLAN WAS PREPARED BY: NIKKI RADTKE
STRAUGHAN ENVIRONMENTAL SERVICES, INC.
MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL STATUS (JAN. 28, 2009)
Nikki Radtke 8/17/10 DATE
NIKKI RADTKE
STRAUGHAN ENVIRONMENTAL SERVICES, INC.



The Maryland-National Capital
Park and Planning Commission
Montgomery County Department of Parks
9500 Brunnet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date	1	8/10/10
Park Manager	Date	2	8/2/10
		3	8/19/10

LAYTONIA RECREATIONAL PARK
Final Forest
Conservation Plan
SCALE: AS SHOWN
Liber 14440 Folio 234
28083 491

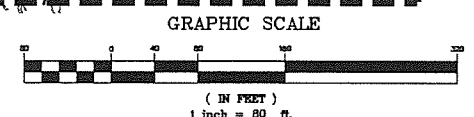
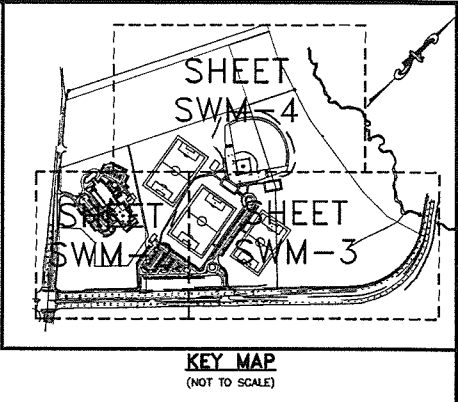
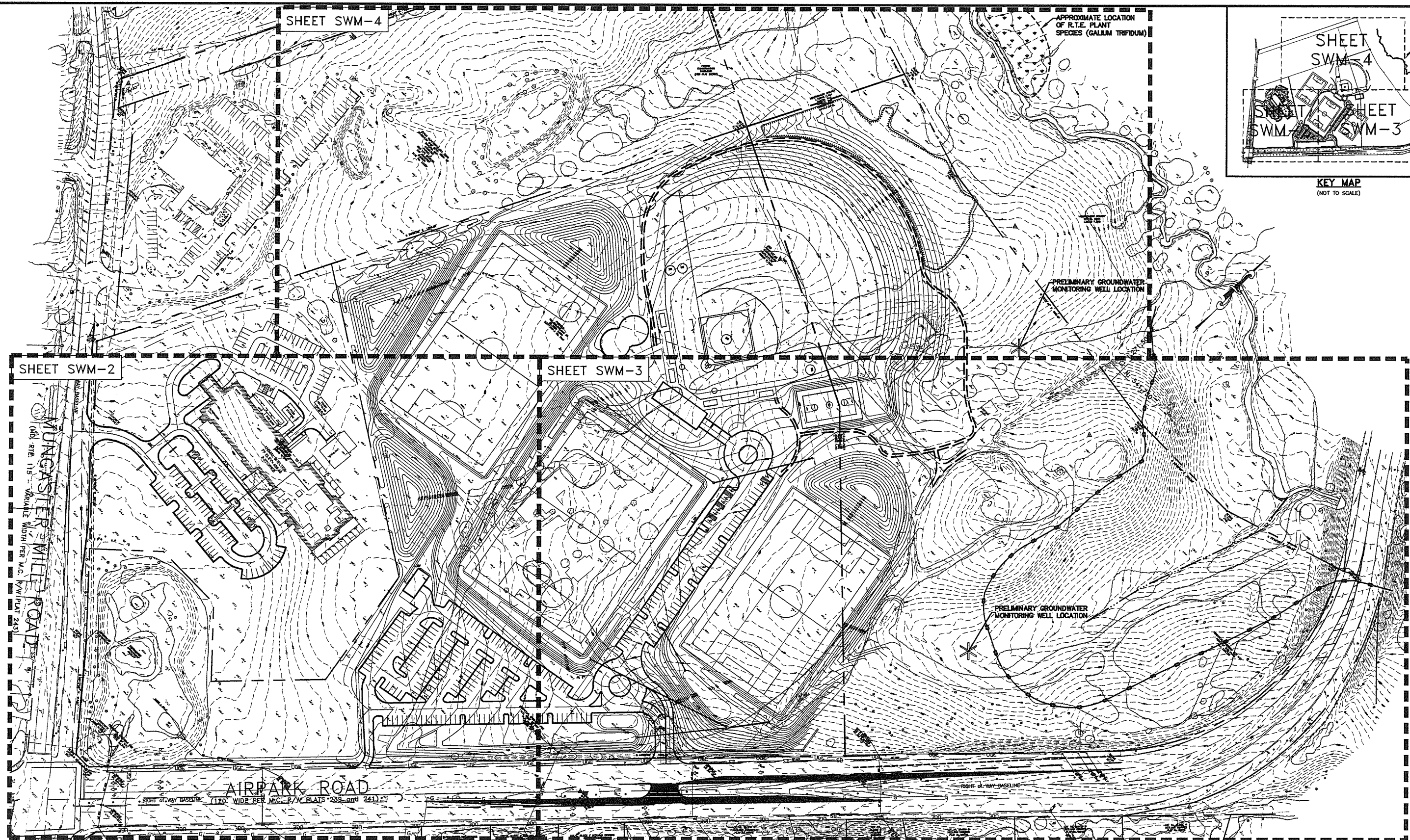
DWG. #
FCP - 7
SHT. # 7 of 7

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

J:\15-10\CD\Current\Sheets\SWM-SHEETS.dwg SWM-1 Plotted By: Dana Wilder, 7/1/2010 2:19 PM



HURON CONSULTING	
Designer's Name	20410 CENTURY BLVD. SUITE 230
Address	GERMANTOWN, MD 20874
City/State/Zip	301-528-2010
Telephone Number	

DESIGN	
DANA WILDER	DLW
Project Engineer	Date
JASON AZAR	Checked By: JA
Project Manager	Date
RICHARD HURNEY	Checked By: REH
Principal	Date
RANDY FULTON	Checked By: RAF
Drawn by	Date
	Checked By:

Professional Certification: I hereby certify that these documents 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. 3116B

Expiration Date 01-12-2011



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON	
REVISIONS	
Rev. No.	Date
	Description

LAYTONIA RECREATIONAL PARK

STORM WATER MANAGEMENT CONCEPT OVERALL PLAN

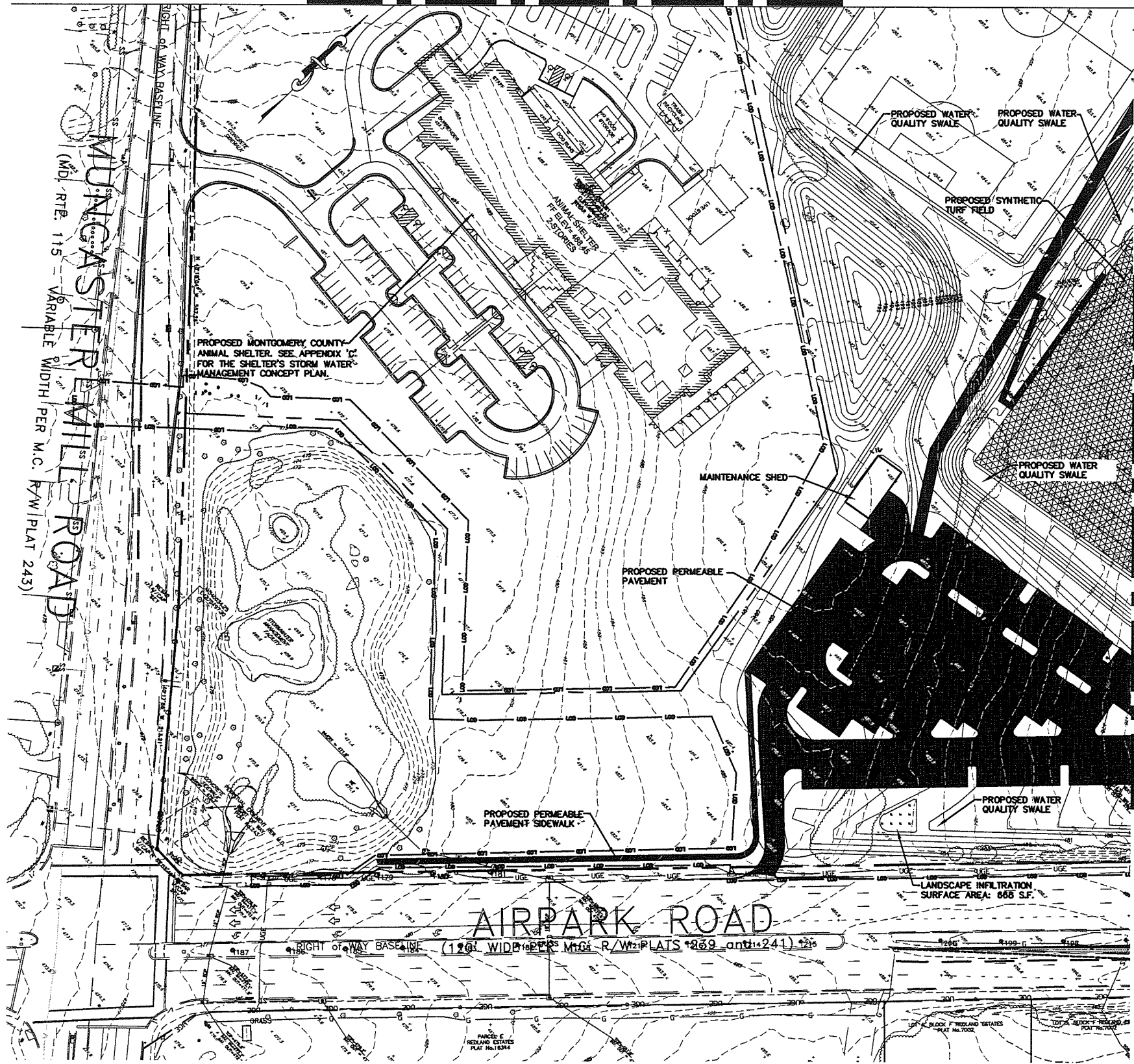
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Liber 14440 Folio 234
7/1/10 10/1

DWG. # **SWM-1**

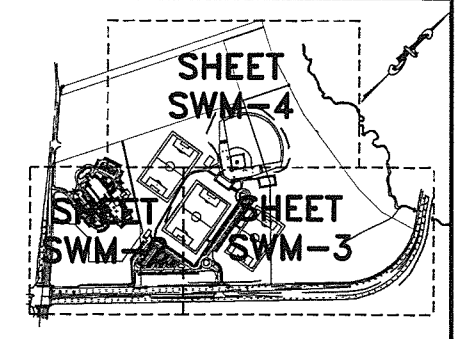
SHT. # **1** of **XX**

MATCH LINE SEE SHEET 4 OF 4



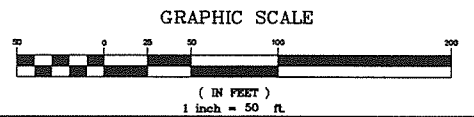
LEGEND

	SYNTHETIC TURF FIELD
	PERMEABLE PAVEMENT
	LANDSCAPE INFILTRATION PRACTICE



KEY MAP
(NOT TO SCALE)

MATCH LINE SEE SHEET 3 OF 4



FINAL SCANNED:

PARK CODE: C10 PLAN SCANNED:

U:\715-101\CADD\Current\Sheets\SWM-SHEETS.dwg SWM-2 Plotted By: Dana Wilder, 7/1/2010 2:21 PM

HURON CONSULTING	
Designer's Name	2041D CENTURY BLVD. SUITE 230
Address	GERMANTOWN, MD 20874
City/State/Zip	301-528-2010
Telephone Number	

DESIGN	
DANA WILDER	DLW
Project Engineer	Date
JASON AZAR	Checked By: JA
Project Manager	Date
RICHARD HURNEY	Checked By: REH
Principal	Date
RANDY FULTON	Checked By: RAF
Drawn by	Date
	Checked By:

Professional Certification - I hereby certify that these documents 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. **31168**

Expiration Date **01-12-2011**



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunnet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON		
REVISIONS		
Rev. No.	Date	Description

LAYTONIA RECREATIONAL PARK

STORM WATER MANAGEMENT CONCEPT PLAN

SCALE: AS SHOWN

Liber 14440 Folio 234
26063 491

DWG. # **SWM-2**

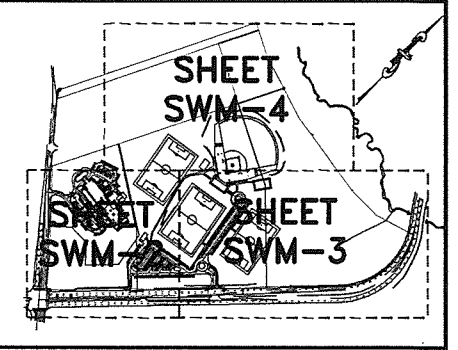
SHT. # **2** of **XX**

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10 MATCH LINE SEE SHEET 2 OF 4 MATCH LINE SEE SHEET 4 OF 4

MATCH LINE SEE SHEET 4 OF 4

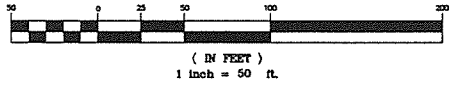


KEY MAP (NOT TO SCALE)

LEGEND

- SYNTHETIC TURF FIELD
- PERMEABLE PAVEMENT
- LANDSCAPE INFILTRATION PRACTICE
- MICRO-BIORETENTION PRACTICE

GRAPHIC SCALE



HURON CONSULTING
 Designer's Name: DANA WILDER
 20410 CENTURY BLVD, SUITE 230
 Address: GERMANTOWN, MD 20874
 City/State/Zip: 301-528-2010
 Telephone Number: 301-528-2010

DESIGN		Checked By	
DANA WILDER	DLW	Checked By: JA	Date:
Project Engineer	Date:	Checked By: REH	Date:
JASON AZAR	Checked By: RAJ	Checked By: RAJ	Date:
Project Manager	Date:	Checked By: RAJ	Date:
RICHARD HURNEY	Checked By: RAJ	Checked By: RAJ	Date:
Principal	Date:	Checked By: RAJ	Date:
RANDY FULTON	Checked By: RAJ	Checked By: RAJ	Date:
Drawn by	Date:	Checked By:	Date:

Professional Certification: I hereby certify that these documents 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. 31168
 Expiration Date 01-12-2011



The Maryland-National Capital Park and Planning Commission
 Montgomery County Department of Parks
 9500 Brunett Avenue
 Silver Spring, Maryland 20901
 (301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON		
REVISIONS		
Rev. No.	Date	Description

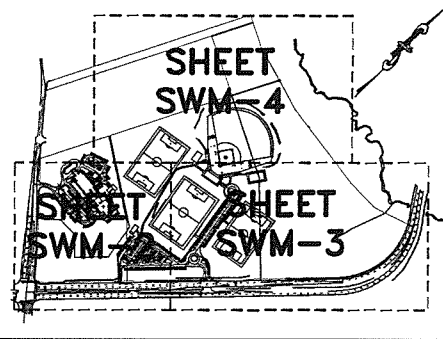
LAYTONIA RECREATIONAL PARK
 STORM WATER MANAGEMENT
 CONCEPT PLAN
 SCALE: AS SHOWN
 Liber 14440 Folio 234
 2/20/11 JCF

DWG. # SWM-3
 SHT. # 3 of XX

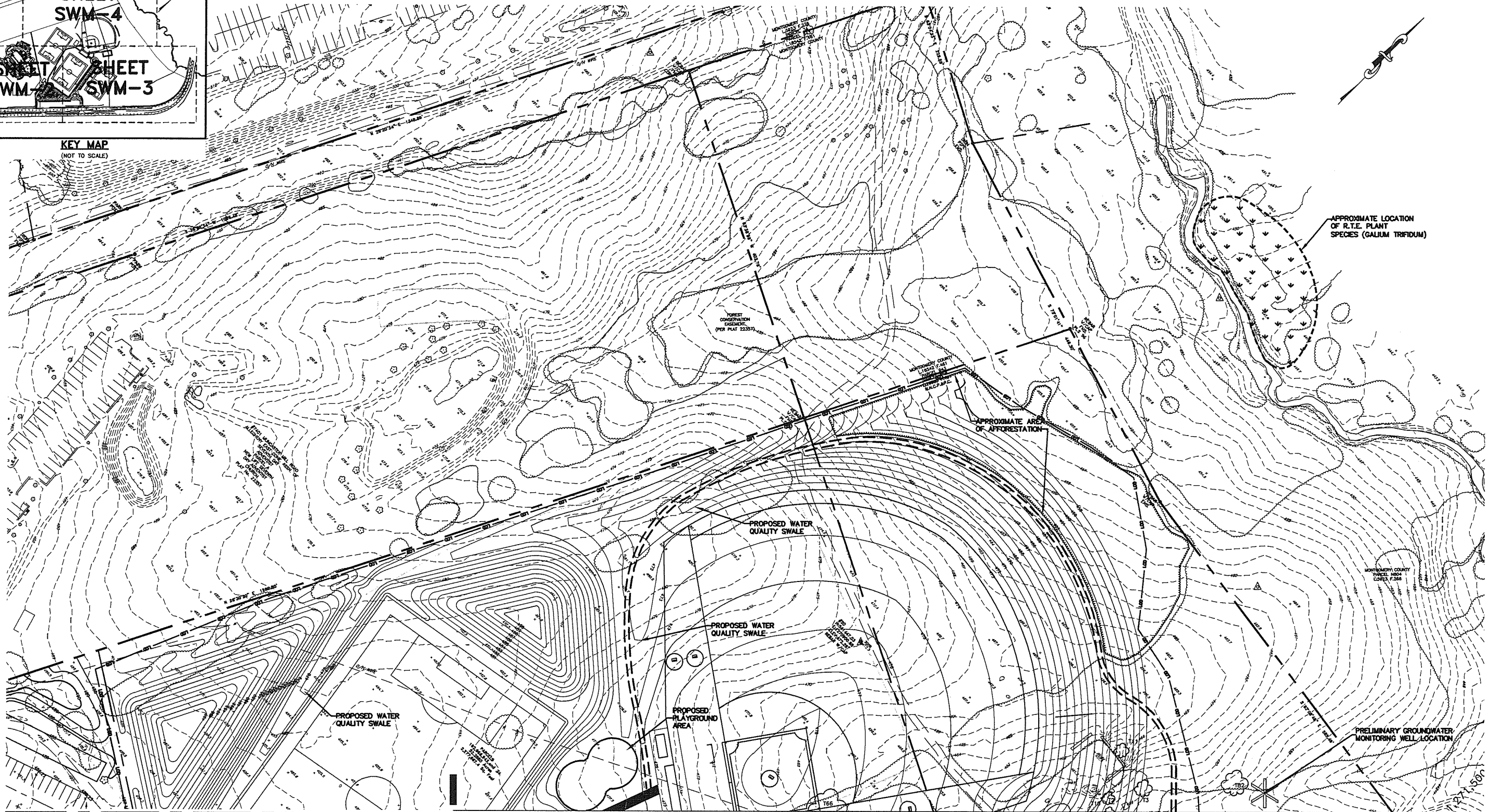
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10



KEY MAP
(NOT TO SCALE)



APPROXIMATE LOCATION OF R.T.E. PLANT SPECIES (GALIUM TRIFIDUM)

FOREST CONSERVATION EASEMENT (PER PLAN 22307)

APPROXIMATE AREA OF AFFORESTATION

PROPOSED WATER QUALITY SWALE

PROPOSED WATER QUALITY SWALE

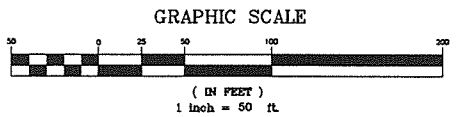
PROPOSED WATER QUALITY SWALE

PROPOSED PLAYGROUND AREA

PRELIMINARY GROUNDWATER MONITORING WELL LOCATION

MATCH LINE SEE SHEET 2 OF 4

MATCH LINE SEE SHEET 3 OF 4



HURON CONSULTING	
Designer's Name	20410 CENTURY BLVD, SUITE 230
Address	GERMANTOWN, MD 20874
City/State/Zip	301-528-2010
Telephone Number	

DESIGN	
DANA WILDER	DLW
Project Engineer	Date
JASON AZAR	Checked By: JA
Project Manager	Date
RICHARD HURNEY	Checked By: REH
Principal	Date
RANDY FULTON	Checked By: RAF
Drawn by	Date
	Checked By:

Professional Certification. I hereby certify that these documents 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. 31168

Expiration Date 01-12-2011



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunnet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON	
REVISIONS	
Rev. No.	Date
	Description

LAYTONIA RECREATIONAL PARK

STORM WATER MANAGEMENT CONCEPT PLAN

SCALE: AS SHOWN

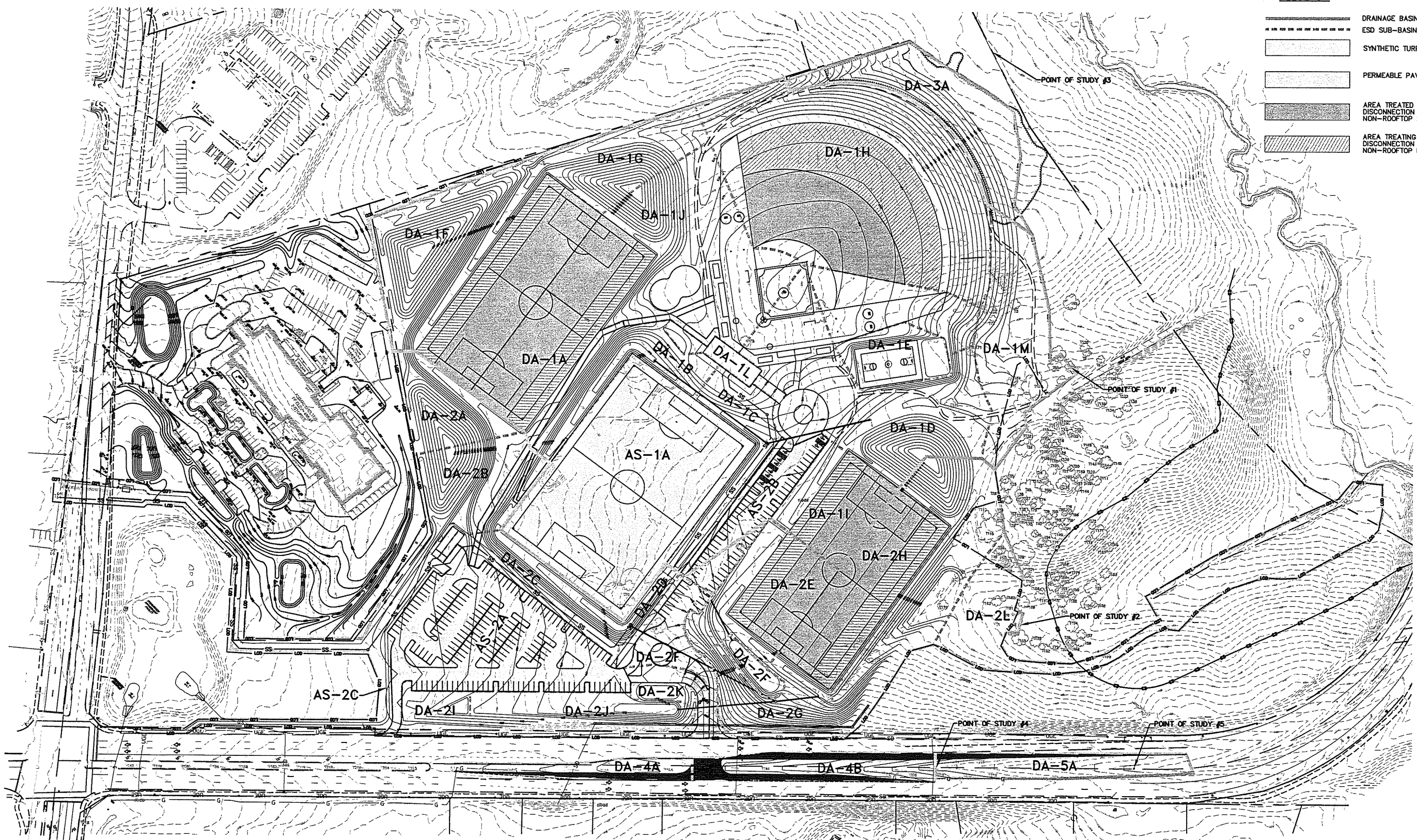
Liber 14440 Folio 234

DWG. # SWM-4

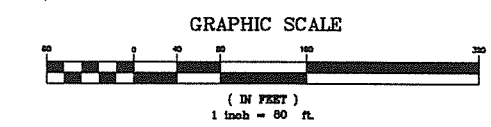
SHT. # 4 of XX

LEGEND

	DRAINAGE BASINS
	ESD SUB-BASINS
	SYNTHETIC TURF FIELD
	PERMEABLE PAVEMENT
	AREA TREATED BY DISCONNECTION OF NON-ROOFTOP RUNOFF
	AREA TREATING DISCONNECTION OF NON-ROOFTOP RUNOFF



NOTE: SEE E.S.D. CALCULATIONS, APPENDIX D.3 FOR DRAINAGE AREA INFORMATION



HURON CONSULTING	
Designer's Name 20410 CENTURY BLVD. SUITE 230	
Address GERMANTOWN, MD 20874	
City/State/Zip 301-528-2010	

DESIGN	
DANA WILDER Project Engineer	DLW
JASON AZAR Project Manager	JA
RICHARD HURNEY Principal	REH
RANDY FULTON Principal	RAF

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

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Expiration Date 01-12-2011

**The Maryland-National Capital
Park and Planning Commission**

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON	
REVISIONS	
Rev. No.	Date
Description	

LAYTONIA RECREATIONAL PARK

STORM WATER MANAGEMENT
POST DEV. DRAINAGE AREAS

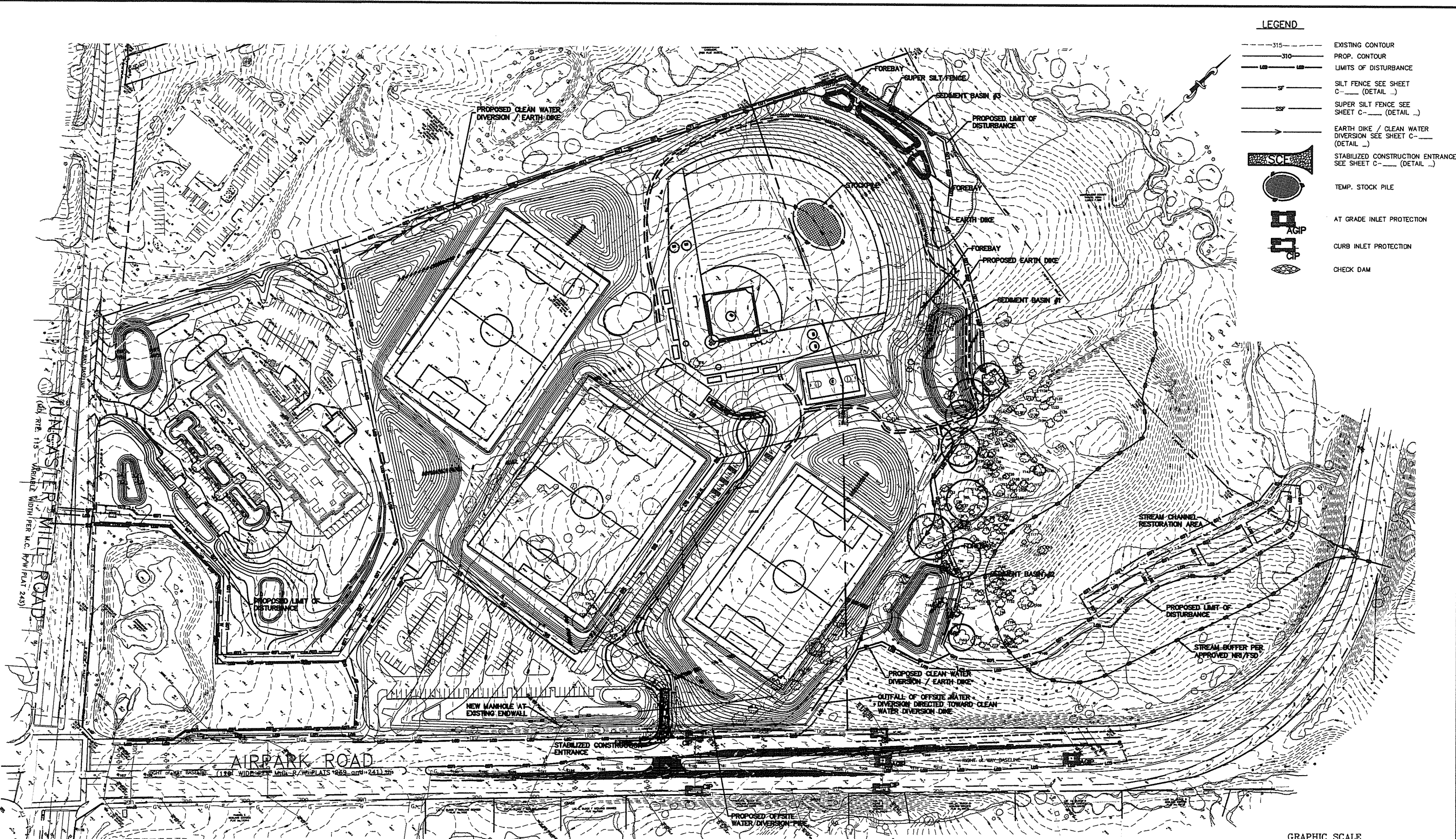
DWG. #
SWM-5

FINAL SCANNED:

PLAN SCANNED:

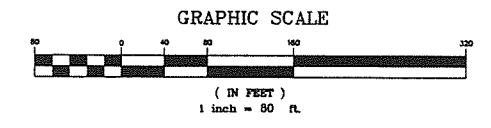
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4/15/10 10:00am C:\Users\jason\Documents\ESCS-SHEETS.dwg C-300 Plotted By: Jason Azar, 7/13/2010 3:36 PM



LEGEND

	EXISTING CONTOUR
	PROP. CONTOUR
	LIMITS OF DISTURBANCE
	SILT FENCE SEE SHEET C- (DETAIL)
	SUPER SILT FENCE SEE SHEET C- (DETAIL)
	EARTH DIKE / CLEAN WATER DIVERSION SEE SHEET C- (DETAIL)
	STABILIZED CONSTRUCTION ENTRANCE SEE SHEET C- (DETAIL)
	TEMP. STOCK PILE
	AT GRADE INLET PROTECTION
	CURB INLET PROTECTION
	CHECK DAM



HURON CONSULTING	
Designer's Name	20410 CENTURY BLVD. SUITE 230
Address	GERMANTOWN, MD 20874
City/State/Zip	301-528-2010
Telephone Number	

DESIGN	
DANA WILDER	DLW
Project Engineer	Checked By: JA
JASON AZAR	Date
Project Manager	Checked By: REH
RICHARD HURNEY	Date
Principal	Checked By: RAF
RANDY FULTON	Date
Drawn by	Checked By:

Professional Certification: I hereby certify that these documents 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. **31168**

Expiration Date **01-12-2011**



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunnet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON	
REVISIONS	
Rev. No.	Date
Description	

LAYTONIA RECREATIONAL PARK

EROSION AND SEDIMENT CONTROL CONCEPT PLAN

SCALE: AS SHOWN Liber 14440 Folio 234
28063 491

DWG. # **ESC-1**

SHT. # **1** of **XX**