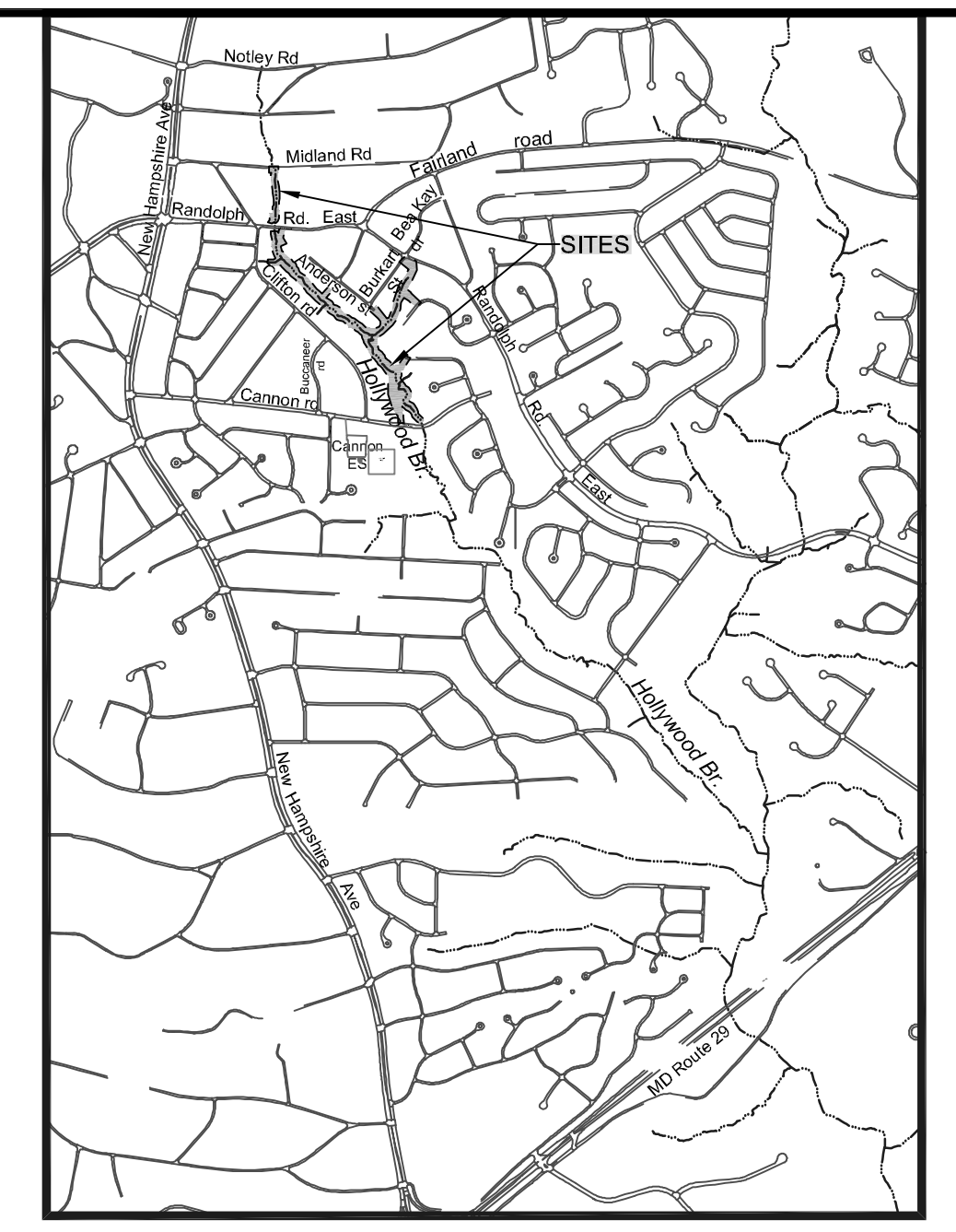


General Notes

1. Site topography taken from Montgomery County LIDAR 5 foot interval dated November 2008 and 2 foot interval by CPJA. Zoning is R-90.
2. Soils on site taken from USDA-NRCS Soil Survey of Montgomery County, MD. Map version 3, 2005 and Survey area data version 7 February, 2007.
3. The surrounding land uses around the site are medium to high density residential areas and Montgomery County Parkland.
4. Wetlands shown on site are delineated from a combination of CPJA's field observations of vegetation, soils, and hydrology; information from National Wetlands Inventory Map, and on hydric soils mapped in the soil survey. No jurisdictional determination was performed by MDE/ACOE to verify the delineation shown.
5. Tree diameters measured using a diameter tape. Field work conducted March, 2009 by James Fetchu, RLA and Hoang Ta of CPJ. There are three (3) trees which appear to be larger than the County Champions and within >75% of the State Champion trees recorded (see tree list, sheet 4 and locations sheet 2).
6. Hollywood Branch is within the Paint Branch Watershed, a USE III class watershed. In-stream work may not be conducted during the period, October 1 - April 30, inclusive, during any year.
7. Hollywood Branch is not within the Paint Branch SPA or the Patuxent River Watershed Primary Management Area (PMA).
8. 100-year floodplain shown on plan view sheets taken from FEMA Map # 24031C0380D effective date September 29, 2006.

FOREST CONSERVATION AND PLANTING NOTES

1. All forest conservation work and any substitutions or other design changes must be approved by M-NCPPC Environmental Planning Forest Conservation Inspector.
2. Contractor to place 12 inch deep woodchip matting on all temporary access within the forest stand to protect trees CRZ and/or as directed by M-NCPPC at pre-construction meeting.
3. Tree pruning and root pruning for construction access must be approved by M-NCPPC FC Inspector and to be performed under supervision of MD certified arborist.
4. Contractor to remove all invasive species within the limits of disturbance and planting areas prior planting.
5. All planting areas shall be planted after all Stream Restoration such as grading and installations of stream banks protection are completed.
6. Contractor must obtain permission and approval of planting materials and locations from the M-NCPPC FC Inspector at pre-planting meeting prior to implement work.
7. All sediment control measures shall not be removed without the Sediment Control Inspector approval.
8. Any excavation work within critical root zone of any SAVE specimen tree (24" or greater) must be done under supervision of certified arborist.



ADC Vicinity Map
Montgomery, MD
33th Edition Map 31F7, 8 & 9
Approximate Scale: 1" = 2000'
Copyright ADC The Map People
Permitted Use Number 20903121

FOREST CONSERVATION WORKSHEET						
Hollywood Branch						
worksheet updated 8/5/2002						
NET TRACT AREA:						
A. Total tract area ...					6.48	
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 ...					6.48	
LAND USE CATEGORY: (from <i>Trees Technical Manual</i>)						
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
G. Afforestation Threshold ...				15%	x F =	0.97
H. Conservation Threshold ...				20%	x F =	1.30
EXISTING FOREST COVER:						
I. Existing forest cover ...						4.58
J. Area of forest above afforestation threshold ...						3.61
K. Area of forest above conservation threshold ...						3.28
BREAK EVEN POINT:						
L. Forest retention above threshold with no mitigation ...						1.95
M. Clearing permitted without mitigation ...						2.63
PROPOSED FOREST CLEARING:						
N. Total area of forest to be cleared ...						3.00
O. Total area of forest to be retained ...						1.58
PLANTING REQUIREMENTS:						
P. Reforestation for clearing above conservation threshold ...						0.75
Q. Reforestation for clearing below conservation threshold ...						0.00
R. Credit for retention above conservation threshold ...						0.28
S. Total reforestation required ...						0.47
T. Total afforestation required ...						0.00
U. Credit for landscaping (may not exceed 20% of "S") ...						0.00
V. Total reforestation and afforestation required ...						0.47

SUMMARY TABLE (all values in acres unless noted)		
A	Total area of tract	6.48
	Acres of tract remaining in agriculture	0.00
	Acres of road and utility ROW which will not be improved	0.00
B	Total acreage of existing forest:	4.58
	Forest retained	1.58
	Forest cleared	3.00
C	Land use category	HDR
	Afforestation threshold	15% 0.97
	Conservation threshold	20% 1.30
D	Acreage of forest within wetlands:	0.07
	Retained	0.07
	Cleared	0.00
	Planted	0.00
E	Acreage of forest within 100 year floodplains:	2.69
	Retained	0.31
	Cleared	2.38
	Planted	0.55
F	Acreage within stream buffers:	4.58
	Retained	1.54
	Cleared	3.04
	Planted	0.55
G	Acreage within priority areas:	4.58
	Retained	1.54
	Cleared	3.04
	Planted	0.55
H	Stream buffer:	150'
	Length	4789'
	Average width	150 ft

TREE MITIGATION PLANTING NOTE:
A minimum of eighteen (18) 2" caliper shade trees must be included in the final forest conservation planting plan to mitigate for impacts to existing specimen trees.

Legend

	Property Line		Ex. Tree Stand
	Existing 5' Contour		Forest Retained
	Ex. 100 year Floodplain		Ex. Randolph Manor FCE (Please See update S-2554)
	Stream		Forest Cleared
	LOD = Tract Area		
	Existing Tree Line		
	Existing Forest Boundary		
	BAMBOO STANDS		

- SHEET INDEX**
1. Title Sheet
 2. Plan View
 3. Plan View
 4. Plan View
 5. Plan View
 6. Plan View
 7. Plan View
 8. Plan View
 9. Plan View
 10. Plan View
 11. Trees List
 12. Details
 13. Planting Plan
 14. Planting Plan
 15. Planting Details and Notes

Planting Provided = 0.68 Ac.
Tree Retained Credit = 1.43 Ac.

- Notes:**
1. The entire LOD will be planted with trees and shrubs per County Guidelines following construction completion.
 2. All temporary access routes to be protected with 12" thick mulch mats (see detail).

LANDSCAPE ARCHITECT CERTIFICATE:
I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.

Date: _____ James M. Fetchu, RLA
Registered Landscape Architect
MD #3241

Prepared for:
Montgomery County Department of Environmental Protection
255 Rockville Pike, Suite 120
Rockville, Maryland 20850
Phone: (240) 777-7707
Attn: Mr. John Hollister

MONTGOMERY COUNTY, MD
Hollywood Branch
MNCPPC
P 825
Tax Map JR61

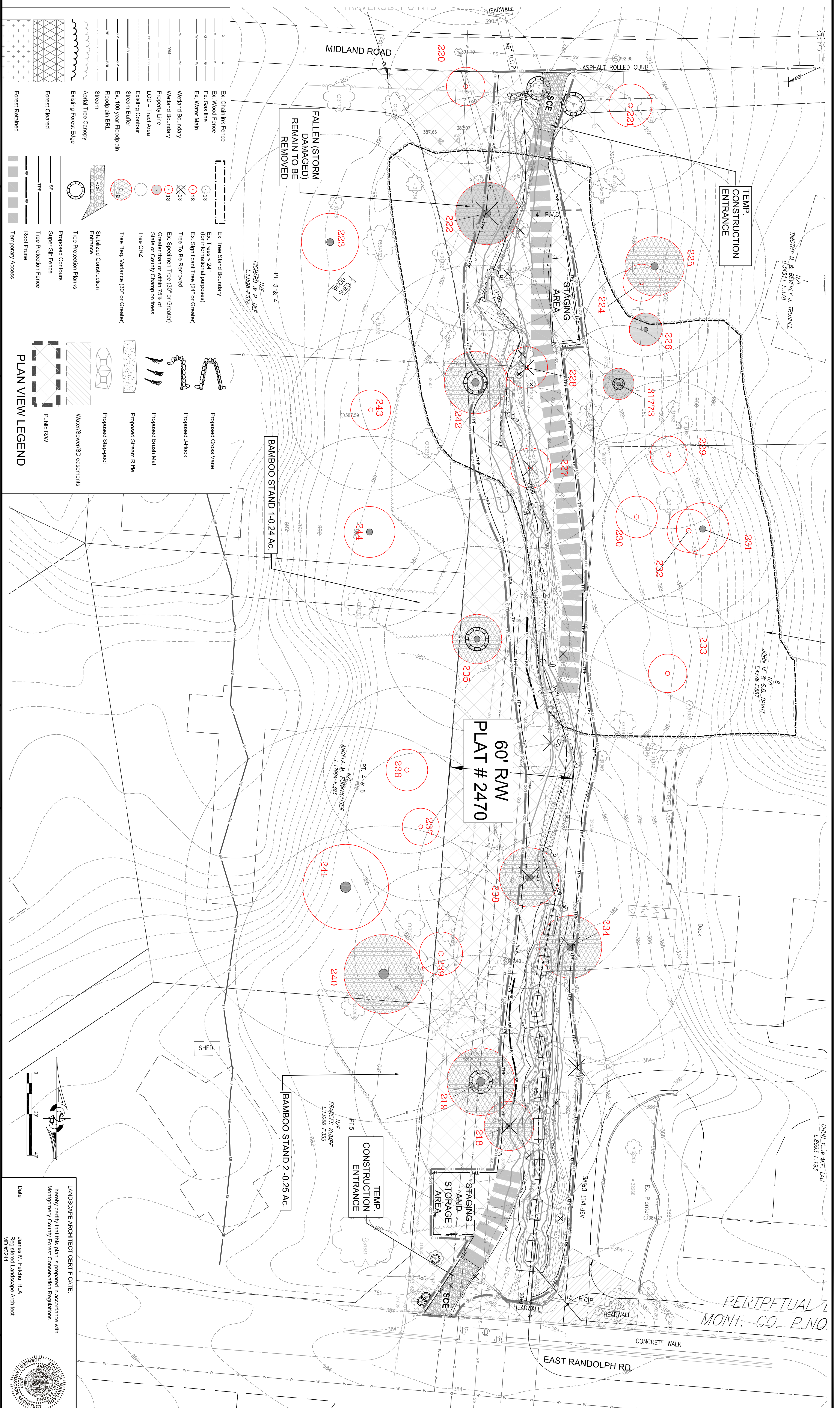
Hollywood Branch Stream Stabilization
PRELIMINARY FOREST CONSERVATION PLAN
Title Sheet

DATE:	06/11				
DESIGNED:	HT/JF				
DRAFTED:	HT				
CHECKED:	JF				
BASE DATA:	CPJA	NO.	REVISIONS	BY	DATE

CPJ Associates
CPJ Environmental Services Division
STREAM RESTORATION • STORMWATER MANAGEMENT • INSPECTION
910 CLOPPER ROAD, STE 215N GAITHERSBURG MARYLAND 20878
Phone: (301) 208-9573 E-mail: env@cpja.com Fax: (301) 926-4551
SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA

SCALE AS SHOWN
SHEET 1 OF 15 SHEETS
JOB NO. 38-507

CAD: JF, 2011-10-24 10:45 AM
 Plotted: C:\Users\jfetchu\Documents\2011\20110611\Hollywood Branch Stream Stabilization\Hollywood Branch Stream Stabilization.dwg



<ul style="list-style-type: none"> Ex. Chainlink Fence Ex. Wood Fence Ex. Gas Line Ex. Water Main Wetland Boundary Wetland Boundary Property Line LOD = Tract Area Existing Contour Stream Buffer Ex. 100 year Floodplain Floodplain BTL Stream Aerial Tree Canopy Existing Forest Edge Forest Cleared Forest Retained 	<ul style="list-style-type: none"> Ex. Tree Stand Boundary Ex. Trees < 24" (for informational purposes) Ex. Significant Tree (24" or Greater) Tree To Be Removed Ex. Specimen Tree (30" or Greater) Greater than or within 75% of State or County Champion trees Tree CRZ Tree Req. Variance (30" or Greater) Stabilized Construction Entrances Tree Protection Planks Proposed Contours Super Silt Fence Tree Protection Fence Root Puncture Temporary Access
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<ul style="list-style-type: none"> Proposed Cross Vane Proposed L-Hook Proposed Brush Mat Proposed Stream Riffle Proposed Step-pool Water/SewerSD assessments 	<p>PLAN VIEW LEGEND</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------

Prepared for:
 Montgomery County Department of
 255 Rockville Pike, Suite 120
 Rockville, Maryland 20850
 Phone: (240) 777-7707
 Attn: Mr. John Hollister

MONTGOMERY COUNTY, MD
 Hollywood Branch
 MNCPPC
 P 825
 Tax Map JR61

Hollywood Branch Stream Stabilization
PRELIMINARY FOREST CONSERVATION PLAN
 Plan View

DATE: 06/11	DESIGNED: HT/JF	DRAFTED: HT	CHECKED: JF	BASE DATA: CFJA
NO.	REVISIONS	BY	DATE	

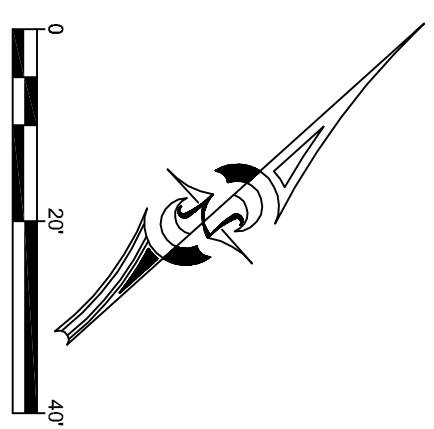
CPJ Environmental Services Division
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 910 CLOPPER ROAD STE 215N CANTERSBURG MARYLAND 20678
 Phone: (301)208-8872 E-mail: em@cpj.com Fax: (301)208-6851
 SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA

LANDSCAPE ARCHITECT CERTIFICATE:
 I hereby certify that this plan is prepared in accordance with
 Montgomery County Forest Conservation Regulations.
 Date _____ James M. Feltru, RLA
 Registered Landscape Architect
 MD #2251

SCALE AS SHOWN	DATE: 06/11
SHEET 2	DESIGNED: HT/JF
OF 15 SHEETS	DRAFTED: HT
JOB NO. 38-507	CHECKED: JF
	BASE DATA: CFJA

PLAN VIEW LEGEND

- X — X — X — Ex. Chainlink Fence
- J — J — J — Ex. Wood Fence
- G — G — G — Ex. Gas Line
- W — W — W — Ex. Water Main
- W8 — — — Wetland Boundary
- — — — Wetland Boundary
- — — — Property Line
- — — — LOD = Tract Area
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- — — — Stream Buffer
- — — — Ex. 100 year Floodplain
- — — — Floodplain BRL
- — — — Stream
- — — — Aerial Tree Canopy
- — — — Existing Forest Edge
- — — — Forest Cleared
- — — — Forest Retained
- — — — Ex. Tree Stand Boundary
- 12 — Ex. Trees < 24" (for nonfunctional purposes)
- 12 — Ex. Significant Tree (24" or Greater)
- ⊗ 12 — Tree To Be Removed
- 12 — Ex. Specimen Tree (30" or Greater) Greater than or within 75% of State or County Champion trees
- 12 — Tree CRZ
- 12 — Tree Ret. Variance (30" or Greater)
- — — — Stabilized Construction Entrance
- — — — Tree Protection Planks
- — — — Proposed Contours
- — — — Super Silt Fence
- — — — Tree Protection Fence
- — — — Root Prune
- — — — Temporary Access
- — — — Proposed Cross Vane
- — — — Proposed J-Hook
- — — — Proposed Brush Mat
- — — — Proposed Stream Riffle
- — — — Proposed Step-pool
- — — — Water/Sewer/SD assessments
- — — — Public RW
- — — — Forest Conservation Easement
- — — — Randolph Manor Property
- — — — Randolph Manor Property Excluded from this FCP



PERIPHERAL ESMT.
MONT. CO. P.NO.'S 305,
306 & 307
EAST RANDOLPH RD.

FOREST CLEARED AREA 2

FOREST CLEARED AREA 1

FOREST CLEARED AREA
1 + 2 = 0.007 Ac.

LANDSCAPE ARCHITECT CERTIFICATE:
I hereby certify that this plan is prepared in accordance with
Montgomery County Forest Conservation Regulations.

Date _____
James M. Fedatu, RLA
Registered Landscape Architect
No. 18281



NO.	REVISIONS	BY	DATE

DATE:	08/11
DESIGNED:	HT/JF
DRAFTED:	HT
CHECKED:	JF
BASE DATA:	CF/JA

CPJ Environmental Services Division
STREAM RESTORATION • STREAMWATER MANAGEMENT • RESTORATION
910 CLOPPER ROAD, STE 215N, GAITHERSBURG, MARYLAND 20878
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SCALE	AS SHOWN
SHEET	3
OF 15 SHEETS	
JOB NO.	38-507

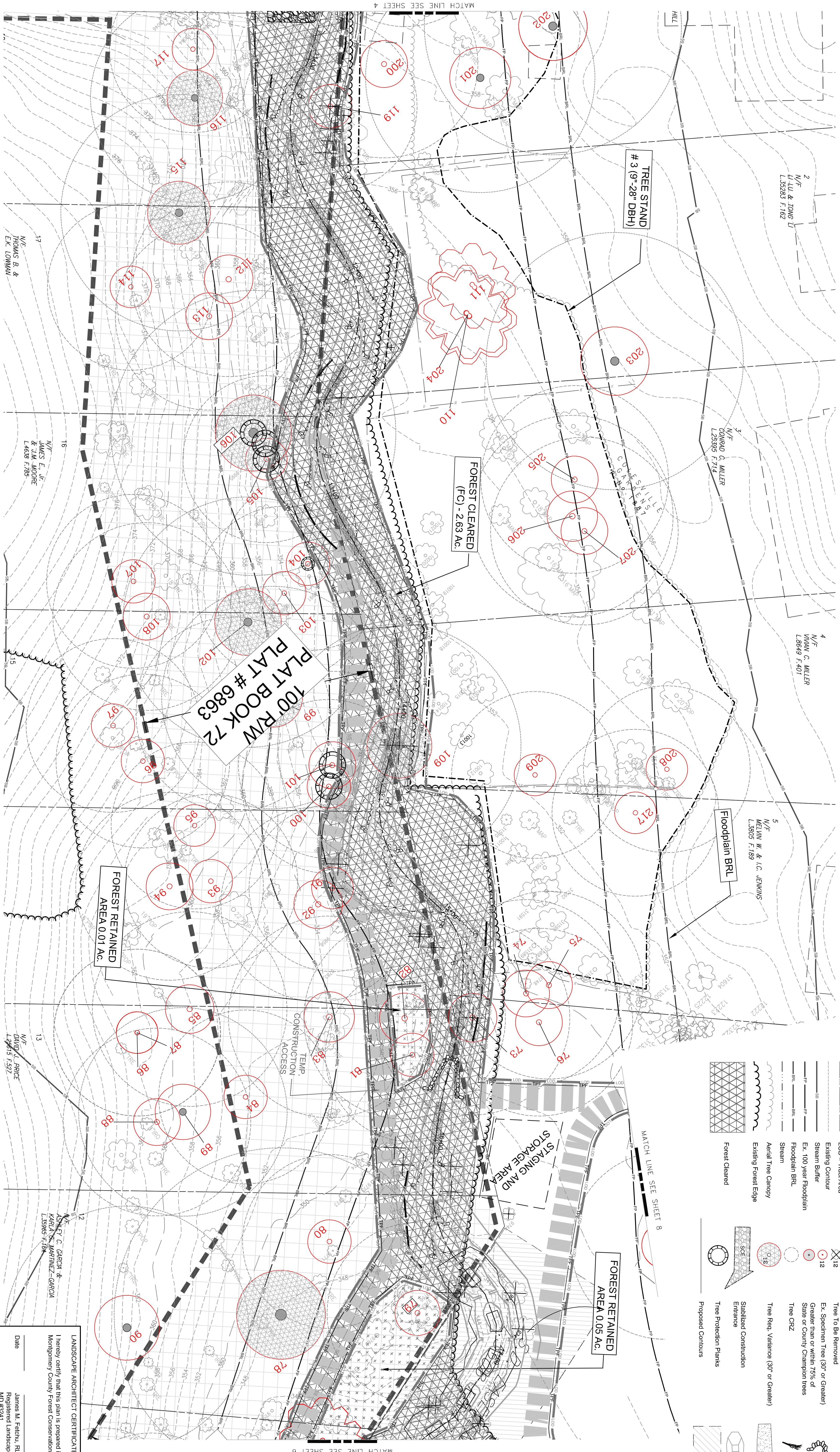
Hollywood Branch Stream Stabilization
PRELIMINARY FOREST CONSERVATION PLAN
Plan View

MONTGOMERY COUNTY, MD
Hollywood Branch
MNCPC
P 825
Tax Map JR61

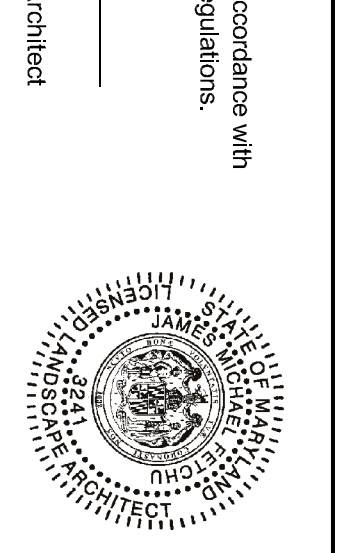
Prepared for:
Montgomery County Department of
255 Rockville Pike, Suite 120
Rockville, Maryland 20850
Phone: (240) 777-7707
Attn: Mr. John Hollister

PLAN VIEW LEGEND

- X — Chainlink Fence
- F — Ex. Wood Fence
- G — Ex. Gas line
- W — Ex. Water Main
- W — Wetland Boundary
- W — Wetland Boundary
- P — Property Line
- L — LOD = Tract Area
- C — Existing Contour
- B — Stream Buffer
- F — Ex. 100 year Floodplain
- B — Floodplain BRL
- S — Stream
- A — Aerial Tree Canopy
- E — Existing Forest Edge
- F — Forest Cleared
- S — Super Silt Fence
- T — Tree Protection Fence
- R — Root Prune
- A — Temporary Access
- V — Proposed Cross Vane
- H — Proposed J-Hook
- M — Proposed Brush Mat
- R — Proposed Stream Riffle
- S — Proposed Step-pool
- A — Water/Sewer/SD assemblies
- 12 — Ex. Trees <24" (for international purposes)
- 12 — Ex. Significant Tree (24" or Greater)
- X — Tree To Be Removed
- 30 — Ex. Specimen Tree (30" or Greater)
- 75 — Greater than or within 75% of State or County Champion trees
- CR2 — Tree CR2
- 30 — Tree Req. Variance (30" or Greater)
- S — Stabilized Construction Entrance
- P — Tree Protection Planks
- C — Proposed Contours



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 Montgomery County Forest Conservation Regulations.
 Montgomery County Forest Conservation Regulations.
 Date _____
 James M. Fethru, RLA
 Registered Landscape Architect
 No. 16251



Prepared for:
 Montgomery County Department of
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MONTGOMERY COUNTY, MD
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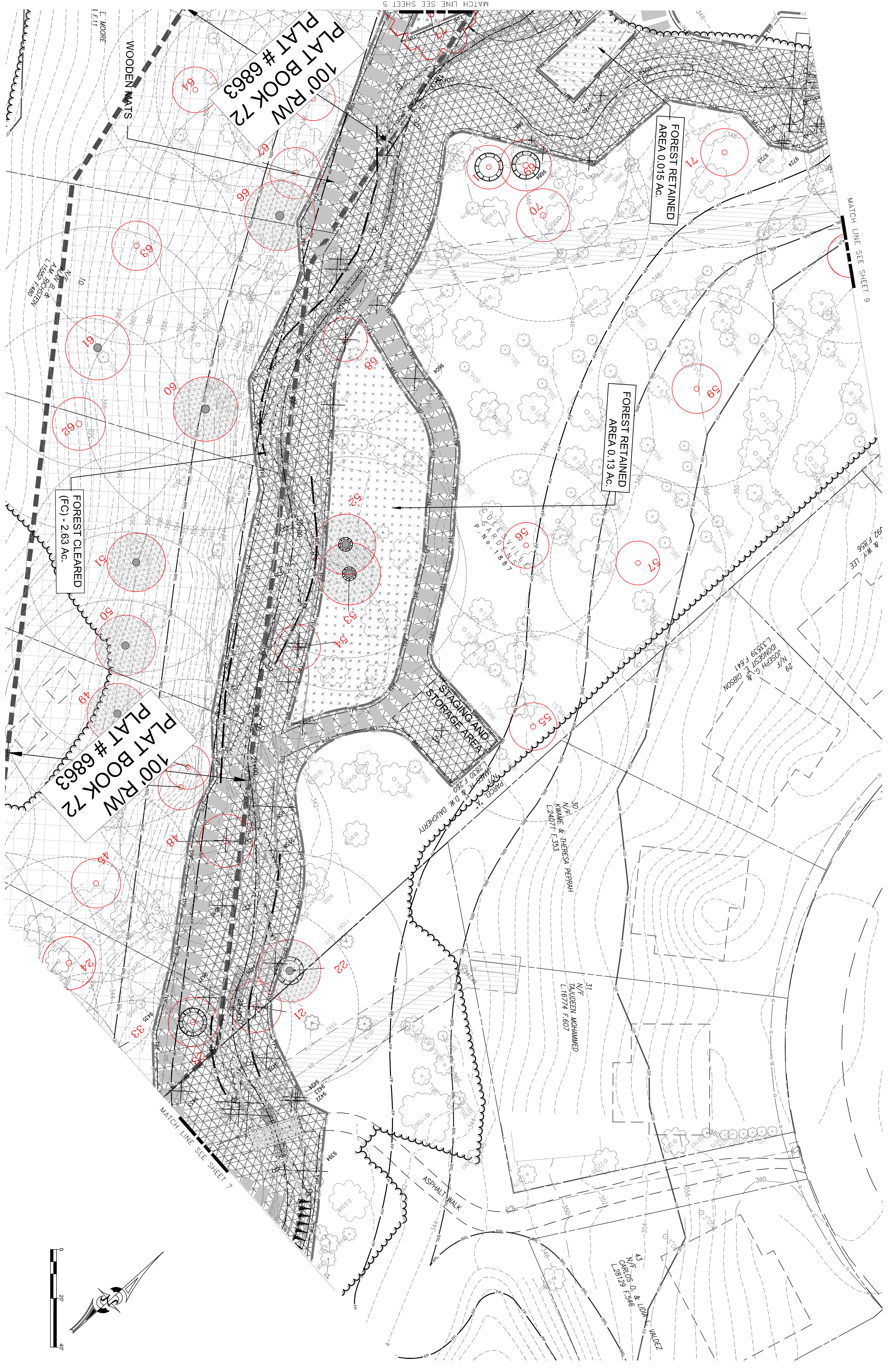
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DRAFTED:	HT
CHECKED:	JF
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NO.	
REVISIONS	
BY	DATE

SCALE
 AS SHOWN
 SHEET
 5
 OF 15 SHEETS
 JOB NO.
 38-507

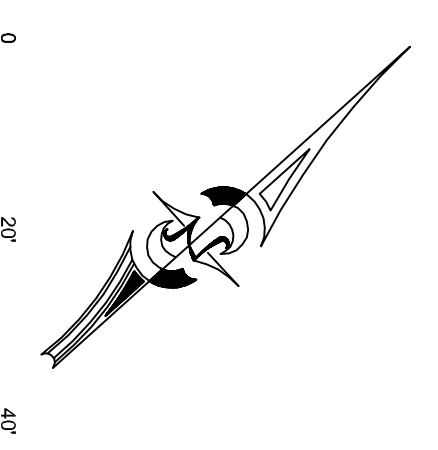


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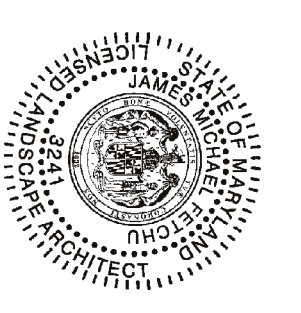


PLAN VIEW LEGEND

	Ex. Chainlink Fence
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	Wetland Boundary
	Property Line
	LOD = Tract Area
	Existing Contour
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	Floodplain BFL
	Stream
	Aerial Tree Canopy
	Existing Forest Edge
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	Proposed Step-pool
	Water/Sewer/SD easements
	Public RW



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 Date: _____
 James M. Fethru, RLA
 Registered Landscape Architect
 No. 15251



Prepared for:
 Montgomery County Department of
 Planning
 255 Rockville Pike, Suite 120
 Rockville, Maryland 20850
 Phone: (240) 777-7707
 Attn: Mr. John Hollister

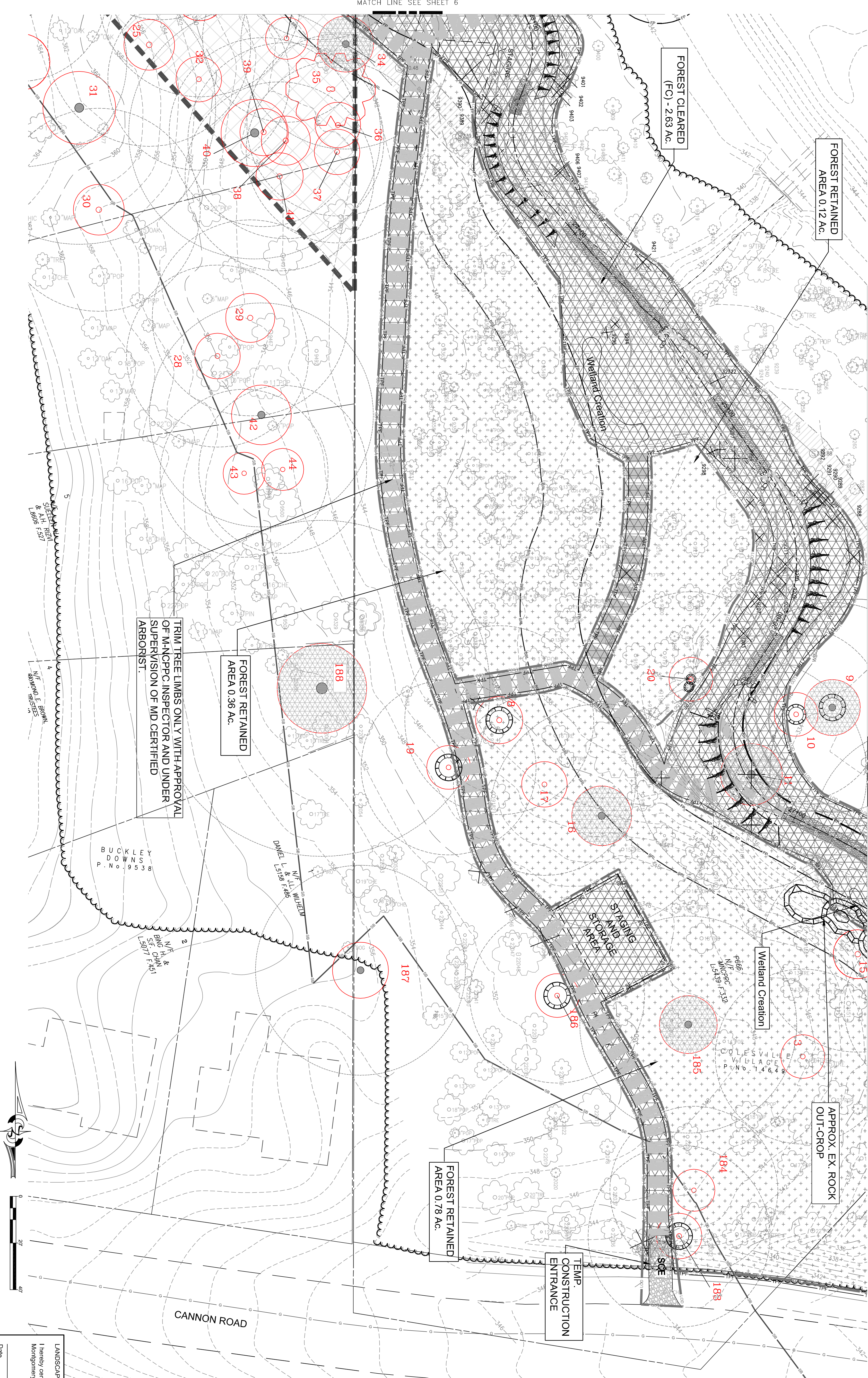
MONTGOMERY COUNTY, MD
 Hollywood Branch
 MNCPPC
 P 825
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Hollywood Branch Stream Stabilization
PRELIMINARY FOREST CONSERVATION PLAN
 Plan View

DATE:	06/11
DESIGNED:	HT/JF
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 JOB NO. 38-507



TRIM TREE LIMBS ONLY WITH APPROVAL OF M-NCPPC INSPECTOR AND UNDER SUPERVISION OF MD CERTIFIED ARBORIST.

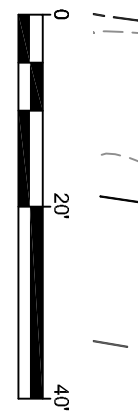
FOREST RETAINED AREA 0.36 AC.

FOREST RETAINED AREA 0.78 AC.

FOREST CLEARED (FC) - 2.63 AC.

FOREST RETAINED AREA 0.12 AC.

APPROX. EX. ROCK OUT-CROP



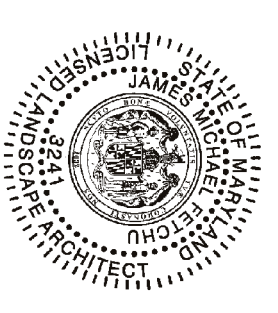
PLAN VIEW LEGEND

	Ex. Chainlink Fence
	Ex. Wood Fence
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	Wetland Boundary
	Wetland Boundary
	Property Line
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	Ex. 100 year Floodplain
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	Ex. Specimen Tree (30" or Greater) Greater than or within 75% of State or County Champion tree
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	Tree Req. Variance (30" or Greater)
	Stabilized Construction Entrance
	Tree Protection Planks
	Proposed Contours
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	Proposed Step-pool
	Water/Sewer/SD easements
	Public RWY

LANDSCAPE ARCHITECT CERTIFICATE:

I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.

Date _____
 James M. Fedtru, RLA
 Registered Landscape Architect
 MD #251



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 Montgomery County Department of
 255 Rockville Pike, Suite 120
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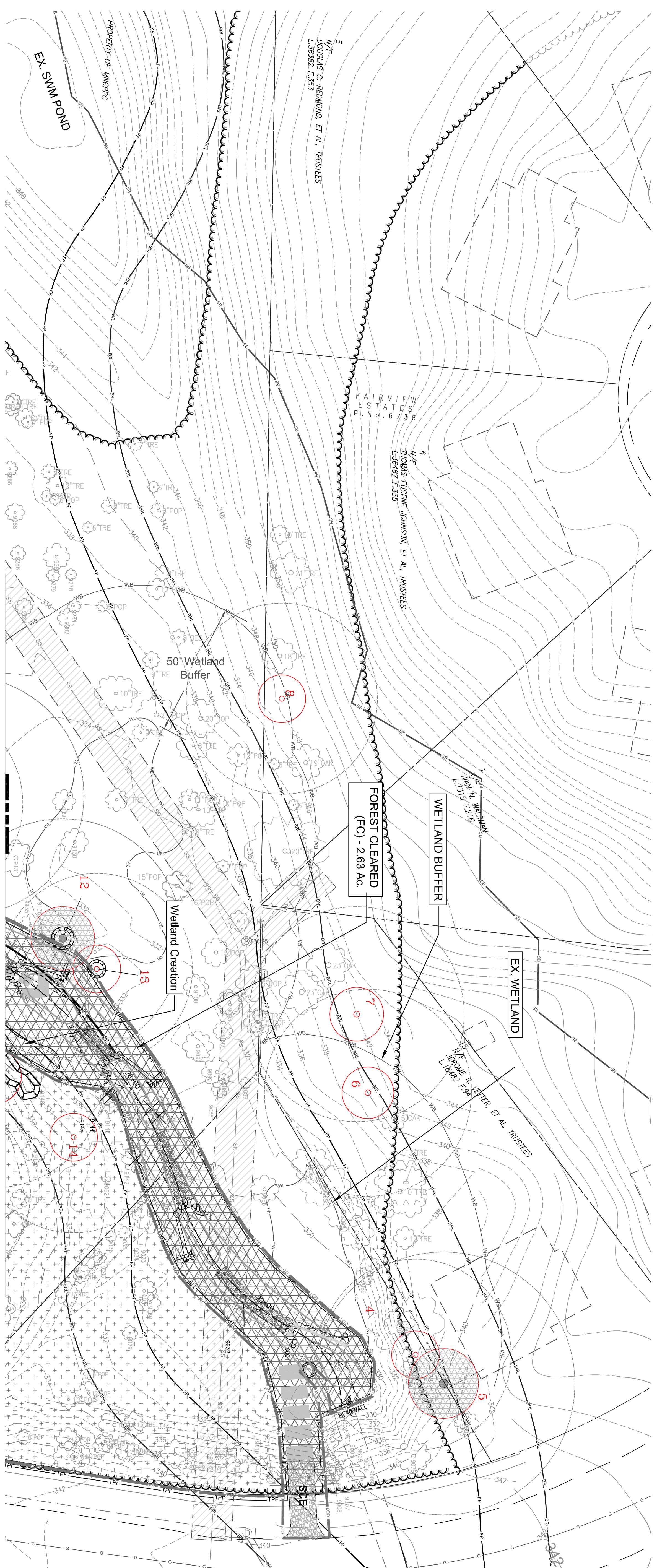
MONTGOMERY COUNTY, MD
 Hollywood Branch
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 PRELIMINARY FOREST CONSERVATION PLAN
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CHECKED:	JF
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NO.	
REVISIONS	
BY	DATE

CPJ Environmental Services Division
 STREAM RESTORATION • STREAMWATER MANAGEMENT • RESTORATION
 910 COPPER ROAD, STE 215N, GAITHERSBURG, MARYLAND 20878
 Phone: (301) 208-9575 E-mail: em@cpj.com Fax: (301) 925-6551
 SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA

SCALE	AS SHOWN
SHEET	7
OF 15 SHEETS	
JOB NO.	38-507



MATCH LINE SEE SHEET 7

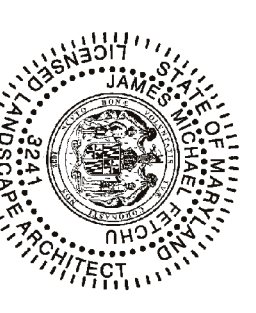
PLAN VIEW LEGEND

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- Public RW

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 No. 15251



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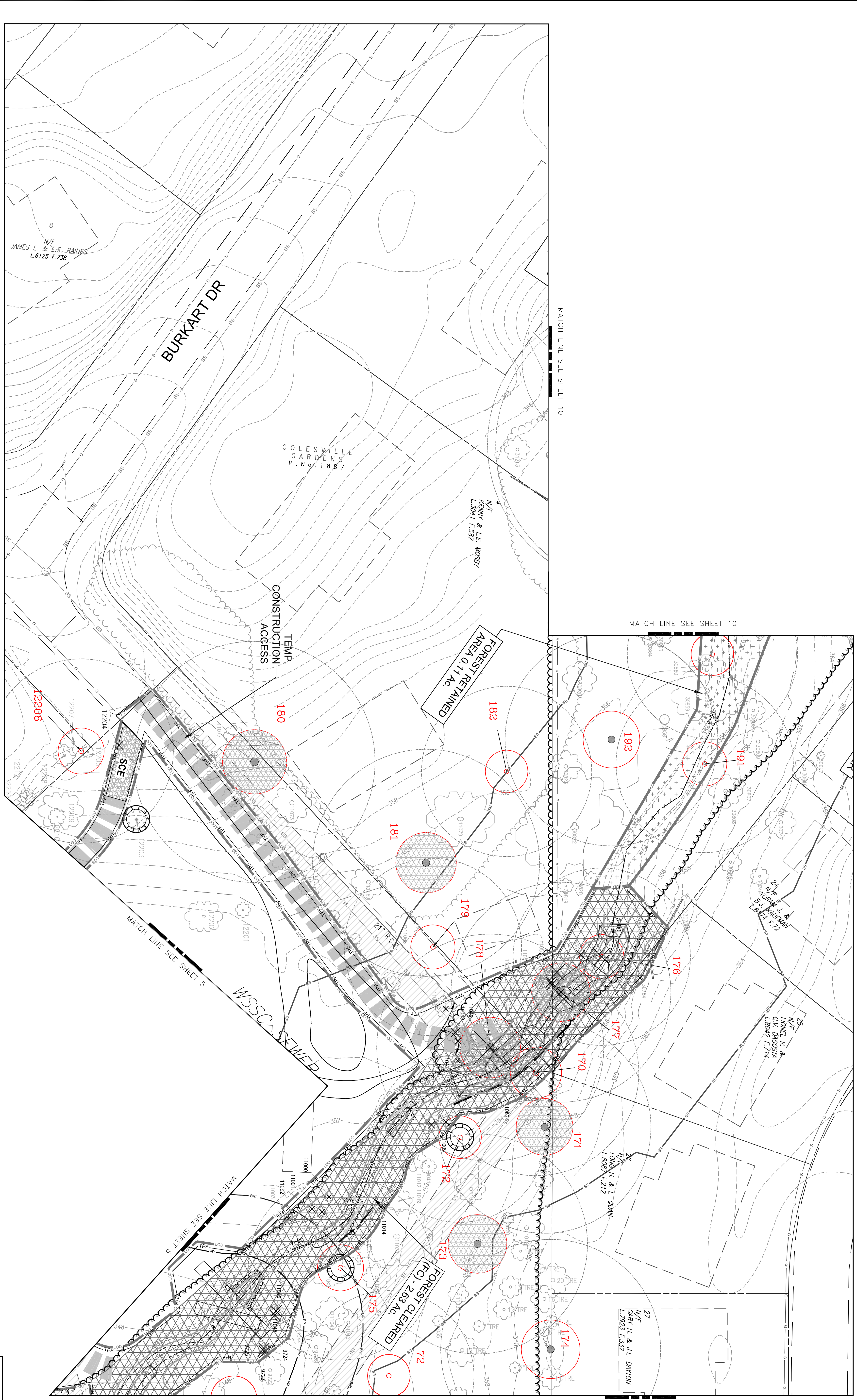
MONTGOMERY COUNTY, MD
 Hollywood Branch
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**Hollywood Branch Stream Stabilization
 PRELIMINARY FOREST CONSERVATION PLAN
 Plan View**

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DESIGNED:	HT/JF
DRAFTED:	HT
CHECKED:	JF
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CPJ Environmental Services Division
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SCALE	AS SHOWN
SHEET	8
OF 15 SHEETS	
JOB NO.	38-507



MATCH LINE SEE SHEET 10

MATCH LINE SEE SHEET 10

MATCH LINE SEE SHEET 5

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 6

PLAN VIEW LEGEND

	Ex. Charlink Fence
	Ex. Wood Fence
	Ex. Gas line
	Ex. Water Main
	Wetland Boundary
	Wetland Boundary Property Line
	LOD - Tract Area
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	Forest Cleared
	Forest Retained
	Ex. Tree Stand Boundary (Ex. Trees < 24' for informational purposes)
	Ex. Significant Tree (24' or Greater)
	Tree To Be Removed
	Ex. Specimen Tree (30' or Greater) Greater than or within 75% of State or County Champion trees
	Tree CRZ
	Tree Red. Variance (90' or Greater)
	Stabilized Construction Entrance
	Tree Protection Planks
	Proposed Contours
	Super Sill Fence
	Tree Protection Fence
	Road Furnce
	Temporary Access
	Proposed Cross Vane
	Proposed J-Hook
	Proposed Bush Mat
	Proposed Stream Riffle
	Proposed Step-pool
	Water/Sewer/SD assessments
	Public RW

LANDSCAPE ARCHITECT CERTIFICATE:

I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.

Date _____
 James M. Fedatu, RLA
 Registered Landscape Architect
 No. 18251



Prepared for:
 Montgomery County Department of
 Planning
 255 Rockville Pike, Suite 120
 Rockville, Maryland 20850
 Phone: (240) 777-7707
 Attn: Mr. John Hollister

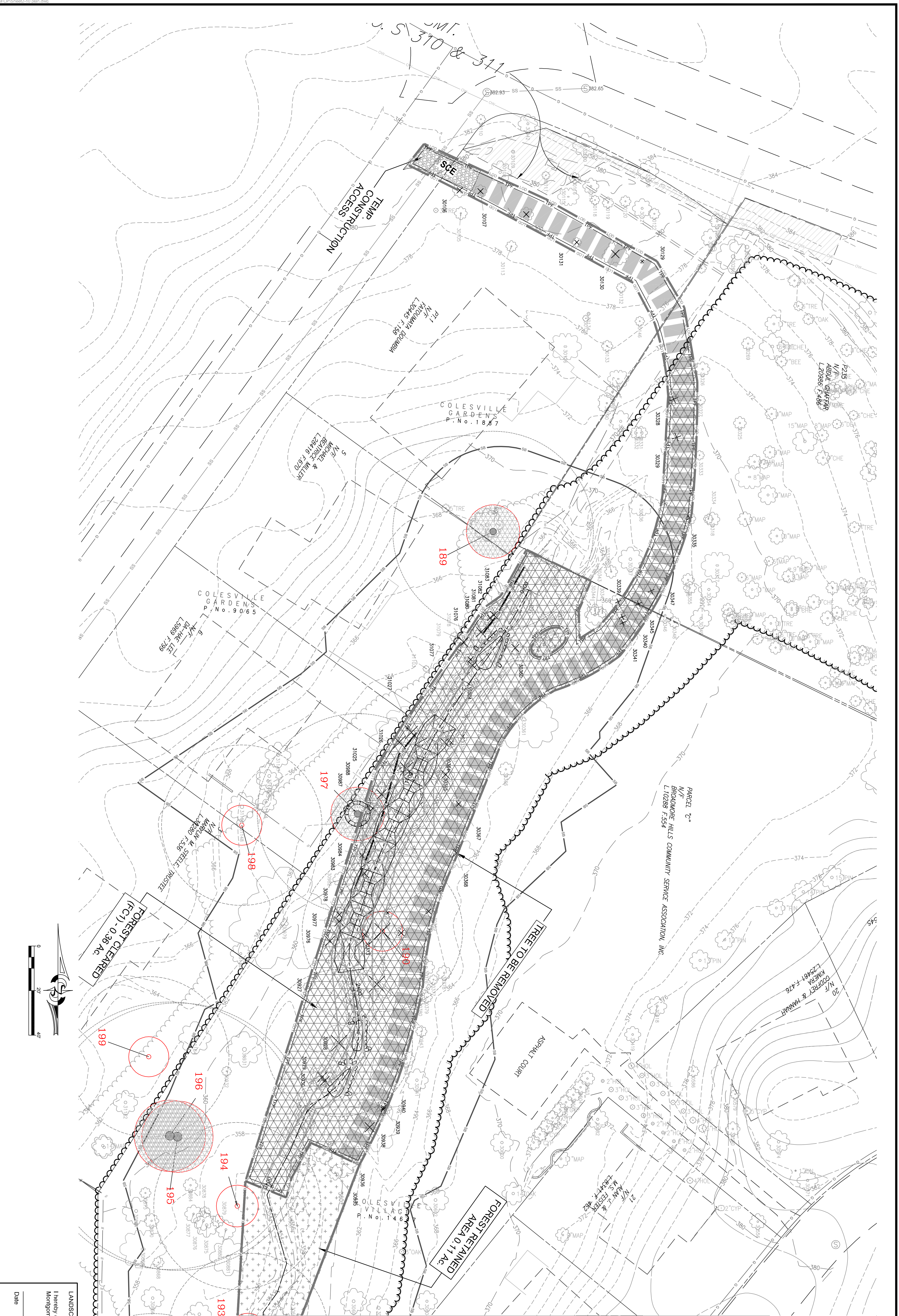
MONTGOMERY COUNTY, MD
 Hollywood Branch
 MNCPPC
 P 825
 Tax Map JR61

**Hollywood Branch Stream Stabilization
 PRELIMINARY FOREST CONSERVATION PLAN
 Plan View**

DATE:	06/11
DESIGNED:	HT/JF
DRAFTED:	HT
CHECKED:	JF
BASE DATA:	CF/JA
NO.	
REVISIONS	
BY	DATE

CPJ Environmental Services Division
 STREAM RESTORATION - STORMWATER MANAGEMENT - RESTORATION
 910 COOPER ROAD, STE 215N GAITHERSBURG, MARYLAND 20878
 Phone: (301) 208-9875 E-mail: em@cpj.com Fax: (301) 926-6551
 SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA
 ASSOCIATES

SCALE	AS SHOWN
SHEET	9
OF 15 SHEETS	
JOB NO.	38-507



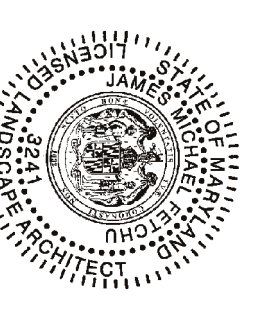
PLAN VIEW LEGEND

	Ex. Chainlink Fence
	Ex. Wood Fence
	Ex. Gas Line
	Ex. Water Main
	Wellhead Boundary
	Property Line
	LOD = Tract Area
	Existing Contour
	Stream Buffer
	Ex. 100 year Floodplain
	Floodplain BFL
	Stream
	Aerial Tree Canopy
	Existing Forest Edge
	Forest Cleared
	Forest Retained
	Ex. Tree Stand Boundary
	Ex. Trees < 24" (for informational purposes)
	Ex. Significant Tree (24" or Greater)
	Tree To Be Removed
	Ex. Specimen Tree (30" or Greater)
	Greater than or within 75% of State or County Champion trees
	Tree CRZ
	Tree Req. Variance (30" or Greater)
	Stabilized Construction
	Entrance
	Tree Protection Plank
	Proposed Canions
	Super Silt Fence
	Tree Protection Fence
	Root Puncture
	Temporary Access
	Proposed Cross Vane
	Proposed J-Hook
	Proposed Brush Mat
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	Proposed Step-pool
	Water/Sewer/SD easements
	Public R/W

LANDSCAPE ARCHITECT CERTIFICATE:

I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.

Date: _____
 James M. Fedatu, RLA
 Registered Landscape Architect
 MD #5251



Prepared for:
 Montgomery County Department of
 Planning
 255 Rockville Pike, Suite 320
 Rockville, Maryland 20850
 Phone: (240) 777-7707
 Attn: Mr. John Hollister

MONTGOMERY COUNTY, MD
 Hollywood Branch
 MNCPPC
 P 825
 Tax Map JR61

**Hollywood Branch Stream Stabilization
 PRELIMINARY FOREST CONSERVATION PLAN
 Plan View**

DATE:	06/11
DESIGNED:	HT/JF
DRAFTED:	HT
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BASE DATA:	CF/JA
NO.	
REVISIONS	
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CPJ Environmental Services Division
 STREAM RESTORATION • STORMWATER MANAGEMENT • INSPECTION
 910 CLOPPER ROAD, STE 215N, GAITHERSBURG, MARYLAND 20878
 Phone: (301) 226-8675 E-mail: em@cpj.com Fax: (301) 226-8651
 SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA

SCALE	AS SHOWN
SHEET	10
OF 15 SHEETS	
JOB NO.	38-507

SPECIMEN TREES (>30") AND SIGNIFICANT TREES AT (24") LIST

ID	Common Name	Scientific Name	DBH (in.)	CRZ (ft.)	Condition	Req. Variance
1	Red Maple	Acer rubrum	27	40.5	Good	
2	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
3	Red Maple	Acer rubrum	24	36	Poor	
4	Black Locust	Robinia pseudoacacia	33	49.5	Fair	Yes
5	Red Maple	Acer rubrum	28	42	Fair	
6	White Oak	Quercus alba	27	40.5	Poor	
7	Pin Oak	Quercus palustris	24	36	Fair	
8	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
9	Red Maple	Acer rubrum	30	45	Fair	Yes
10	White Oak	Quercus alba	25	37.5	Fair	
11	Tulip Poplar	Liriodendron tulipifera	33	49.5	Fair	Yes
12	Tulip Poplar	Liriodendron tulipifera	30	45	Fair	Yes
13	Red Maple	Acer rubrum	24	36	Poor	
14	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
15	White Oak	Quercus alba	28	42	Poor	
16	Tulip Poplar	Liriodendron tulipifera	32	48	Fair	Yes
17	Red Maple	Acer rubrum	29	43.5	Good	
18	Red Maple	Acer rubrum	25	37.5	Fair	
19	Red Maple	Acer rubrum	25	37.5	Fair	
20	Red Maple	Acer rubrum	28	42	Fair	
21	Red Maple	Acer rubrum	28	42	Fair	
22	Tulip Poplar	Liriodendron tulipifera	27	40.5	Fair	Yes
23	Tulip Poplar	Liriodendron tulipifera	29	43.5	Good	
24	White Oak	Quercus alba	29	43.5	Good	
25	White Oak	Quercus alba	25	37.5	Fair	
26	Red Oak	Quercus rubra	30	45	Fair	
27	Red Oak	Quercus rubra	28	42	Fair	
28	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
29	Tulip Poplar	Liriodendron tulipifera	29	43.5	Fair	
30	Tulip Poplar	Liriodendron tulipifera	29	43.5	Fair	
31	White Oak	Quercus alba	39	58.5	Fair	
32	White Oak	Quercus alba	28	42	Good	
33	White Oak	Quercus alba	24	36	Fair	
34	Tulip Poplar	Liriodendron tulipifera	30	45	Good	Yes
35	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
36	Red Maple	Acer rubrum	28	42	Fair	
37	Red Maple	Acer rubrum	28	42	Good	
38	Red Maple	Acer rubrum	28	42	Good	
39	Red Maple	Acer rubrum	27	40.5	Fair	
40	Tulip Poplar	Liriodendron tulipifera	27	40.5	Fair	
41	White Oak	Quercus alba	36	54	Fair	
42	Tulip Poplar	Liriodendron tulipifera	32	48	Fair	
43	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
44	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
45	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
46	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
47	Red Oak	Quercus rubra	24	36	Fair	
48	Tulip Poplar	Liriodendron tulipifera	29	43.5	Fair	
49	White Oak	Quercus alba	31	46.5	Fair	Yes
50	White Oak	Quercus alba	31	46.5	Fair	Yes
51	Red Oak	Quercus rubra	30	45	Fair	Yes
52	Tulip Poplar	Liriodendron tulipifera	31	46.5	Fair	Yes
53	Red Maple	Acer rubrum	32	48	Good	Yes
54	Red Maple	Acer rubrum	28	42	Fair	
55	White Oak	Quercus alba	25	37.5	Fair	
56	White Oak	Quercus alba	24	36	Fair	
57	White Oak	Quercus alba	24	36	Fair	
58	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
59	Red Oak	Quercus rubra	27	40.5	Fair	
60	Tulip Poplar	Liriodendron tulipifera	33	49.5	Good	Yes
61	Red Oak	Quercus rubra	33	49.5	Fair	
62	White Oak	Quercus alba	29	43.5	Fair	
63	Tulip Poplar	Liriodendron tulipifera	27	40.5	Fair	
64	Red Oak	Quercus rubra	25	37.5	Good	
65	White Oak	Quercus alba	25	37.5	Fair	
66	Red Oak	Quercus rubra	36	54	Fair	Yes
67	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
68	White Oak	Quercus alba	24	36	Fair	
69	Tulip Poplar	Liriodendron tulipifera	28	42	Poor	
70	White Oak	Quercus alba	29	43.5	Fair	
71	White Oak	Quercus alba	29	43.5	Fair	
72	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
73	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
74	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
75	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
76	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
77	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
78	Tulip Poplar	Liriodendron tulipifera	48	72	Good	Yes

ID	Common Name	Scientific Name	DBH (in.)	CRZ (ft.)	Condition	Req. Variance
79	Tulip Poplar	Liriodendron tulipifera	28	36	Fair	
80	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
81	Tulip Poplar	Liriodendron tulipifera	22	33	Fair	
82	White Oak	Quercus alba	29	43.5	Poor	
83	Tulip Poplar	Liriodendron tulipifera	29	43.5	Fair	
84	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
85	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
86	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
87	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
88	Tulip Poplar	Liriodendron tulipifera	27	40.5	Fair	
89	Tulip Poplar	Liriodendron tulipifera	30	45	Good	
90	Tulip Poplar	Liriodendron tulipifera	35	52.5	Fair	
91	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
92	Tulip Poplar	Liriodendron tulipifera	28	42	Fair	
93	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
94	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
95	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
96	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
97	Tulip Poplar	Liriodendron tulipifera	29	43.5	Good	
98	Red Maple	Acer rubrum	29	43.5	Good	
99	Red Maple	Acer rubrum	39	48	Fair	Yes
100	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
101	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
102	White Oak	Quercus alba	36	54	Fair	Yes
103	White Oak	Quercus alba	25	37.5	Fair	
104	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
105	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
106	Tulip Poplar	Liriodendron tulipifera	41	61.5	Good	Yes
107	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
108	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
109	Tulip Poplar	Liriodendron tulipifera	35	52.5	Fair	Yes
110	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
111	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
112	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
113	Tulip Poplar	Liriodendron tulipifera	27	40.5	Good	
114	Red Maple	Acer rubrum	24	36	Fair	Yes
115	Red Maple	Acer rubrum	30	45	Fair	Yes
116	Tulip Poplar	Liriodendron tulipifera	30	45	Good	
117	Red Oak	Quercus rubra	24	36	Fair	
118	Black Cherry	Prunus serotina	25	37.5	Fair	
119	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
120	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
121	Box Elder	Acer negundo	36	54	Fair	Yes
122	Box Elder	Acer negundo	24	36	Poor	
123	Red Maple	Acer rubrum	25	37.5	Fair	
124	Tulip Poplar	Liriodendron tulipifera	25	37.5	Fair	
125	Tulip Poplar	Liriodendron tulipifera	34	51	Fair	
126	Black Cherry	Prunus serotina	26	39	Fair	
127	Tulip Poplar	Liriodendron tulipifera	25	37.5	Good	
128	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
129	Tulip Poplar	Liriodendron tulipifera	33	49.5	Good	Yes
130	Tulip Poplar	Liriodendron tulipifera	29	43.5	Good	
131	Tulip Poplar	Liriodendron tulipifera	32	48	Good	
132	Tulip Poplar	Liriodendron tulipifera	26	39	Good	
133	Tulip Poplar	Liriodendron tulipifera	28	42	Good	
134	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
135	Tulip Poplar	Liriodendron tulipifera	26	39	Good	
136	Tulip Poplar	Liriodendron tulipifera	24	36	Good	
137	Red Maple	Acer rubrum	26	39	Fair	
138	Red Maple	Acer rubrum	28	42	Fair	
139	Tulip Poplar	Liriodendron tulipifera	28	42	Fair	
140	Black Cherry	Prunus serotina	29	43.5	Fair	
141	Black Cherry	Prunus serotina	36	54	Poor	Yes
142	Black Cherry	Prunus serotina	31	46.5	Fair	
143	Tulip Poplar	Liriodendron tulipifera	24	36	Fair	
144	Tulip Poplar	Liriodendron tulipifera	30	45	Fair	Yes
145	Tulip Poplar	Liriodendron tulipifera	26	39	Fair	

ID	Common Name	Scientific Name	DBH (in.)	CRZ (ft.)	Condition	Req. Variance
146	Tulip Poplar	Liriodendron tulipifera	23	34.5	Fair	
147	Tulip Poplar	Liriodendron tulipifera	23	34.5	Fair	
148	White Oak	Quercus alba	32	48	Fair	Yes
149	White Oak	Quercus alba	32	48	Fair	Yes
150	White Oak	Quercus alba	31	46.5	Fair	Yes
151	White Oak	Quercus alba	31	46.5	Fair	Yes
152	White Oak	Quercus alba	26	39	Fair	
153	White Oak	Quercus alba	26	39	Fair	
154	White Oak	Quercus alba	26	39	Fair	
155	White Oak	Quercus alba	26	39	Fair	
156	White Oak	Quercus alba	26	39	Fair	
157	White Oak	Quercus alba	26	39	Fair	
158	White Oak	Quercus alba	26	39	Fair	
159	White Oak	Quercus alba	26	39	Fair	
160	White Oak	Quercus alba	26	39	Fair	
161	White Oak	Quercus alba	26	39	Fair	
162	White Oak	Quercus alba	26	39	Fair	
163	White Oak	Quercus alba	26	39	Fair	
164	White Oak	Quercus alba	26	39	Fair	
165	White Oak	Quercus alba	26	39	Fair	
166	White Oak	Quercus alba	26	39	Fair	
167	White Oak	Quercus alba	26	39	Fair	
168	White Oak	Quercus alba	26	39	Fair	
169	White Oak	Quercus alba	26	39	Fair	
170	White Oak	Quercus alba	26	39	Fair	
171	White Oak	Quercus alba	26	39	Fair	
172	White Oak	Quercus alba	26	39	Fair	
173	White Oak	Quercus alba	26	39	Fair	
174	White Oak	Quercus alba	26	39	Fair	
175	White Oak	Quercus alba	26	39	Fair	
176	White Oak	Quercus alba	26	39	Fair	
177	White Oak	Quercus alba	26	39	Fair	
178	White Oak	Quercus alba	26	39	Fair	
179	White Oak	Quercus alba	26	39	Fair	
180	White Oak	Quercus alba	26	39	Fair	
181	White Oak	Quercus alba	26	39	Fair	
182	White Oak	Quercus alba	26	39	Fair	
183	White Oak	Quercus alba	26	39	Fair	
184	White Oak	Quercus alba	26	39	Fair	
185	White Oak	Quercus alba	26	39	Fair	
186	White Oak	Quercus alba	26	39	Fair	
187	White Oak	Quercus alba	26	39	Fair	
188	White Oak	Quercus alba	26	39	Fair	
189	White Oak	Quercus alba	26	39	Fair	
190	White Oak	Quercus alba	26	39	Fair	
191	White Oak	Quercus alba	26	39	Fair	
192	White Oak	Quercus alba	26	39	Fair	
193	White Oak	Quercus alba	26	39	Fair	
194	White Oak	Quercus alba	26	39	Fair	
195	White Oak	Quercus alba	26	39	Fair	
196	White Oak	Quercus alba	26	39	Fair	
197	White Oak	Quercus alba	26	39	Fair	
198	White Oak	Quercus alba	26	39	Fair	
199	White Oak	Quercus alba	26	39	Fair	
200	White Oak	Quercus alba	26	39	Fair	
201	White Oak	Quercus alba	26	39	Fair	
202	White Oak	Quercus alba	26	39	Fair	
203	White Oak	Quercus alba	26	39	Fair	
204	White Oak	Quercus alba	26	39	Fair	
205	White Oak	Quercus alba	26	39	Fair	
206	White Oak	Quercus alba	26	39	Fair	
207	White Oak	Quercus alba	26	39	Fair	
208	White Oak	Quercus alba	26	39	Fair	
209	White Oak	Quercus alba	26	39	Fair	
210	White Oak	Quercus alba	26	39	Fair	
211	White Oak	Quercus alba	26	39	Fair	
212	White Oak	Quercus alba	26	39	Fair	
213	White Oak	Quercus alba	26	3		

STREAM BUFFER PLANTING SCHEDULE PARTIAL SHADED RIPARIAN CONDITION

Common Name	Scientific Name	Size	QUANTITY			Min. Spacing
			P*	P1	SE	
TREES	Red Maple	2" Caliper	3	6	13	15' O.C.
	Black Oak	2" Caliper	3	6	13	15' O.C.
	Tulip Poplar	2" Caliper	3	6	13	15' O.C.
	Arrowwood	5 Gallon	5	10	70	10' O.C.*
	Spicebush	5 Gallon	5	10	70	10' O.C.*
	Black Haw	5 Gallon	5	10	70	10' O.C.*
STAKES	Black Willow	Stakes/Tubing	200	1125	1325	3' O.C.
TUBELINGS	Silky Dogwood	Stakes/Tubing	200	1125	1325	3' O.C.

Note To Contractor:
* Tree locations to be field located by owner and approved by M-NCPPC Environmental Planning Inspector.
SEED MIX

PERMANENT SEED MIX	Percent	Common Name	Scientific Name
25%	Virginia Wild Rye	<i>Elymus virginicus</i>	
10%	Annual Rye	<i>Lolium multiflorum</i>	
20%	Riverbank Wild Rye	<i>Elymus riparius</i>	
15%	Red Fescue	<i>Festuca rubra</i> L.	
10%	Deertongue	<i>Dichanthium densissimum</i>	
20%	Bootheebush	<i>Elymus hystrix</i>	
TEMPORARY SEED MIX	30lbs / Acre Cereal Rye		

NOTE: New NIDE rules require reseeding after every day of disturbance.



- Notes:**
- All Planting areas within LOD will be planted with trees and shrubs per County Guidelines following construction completion.
 - All temporary access routes to be protected with 12" thick mulch mats (see detail).
 - All temporary access routes along the stream bank to be planted with 2" caliber trees as directed in field.

LANDSCAPE ARCHITECT CERTIFICATE:
I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.
Date: _____
James M. Felshu, RLA
Ruler: _____
MD #2241
Landscape Architect



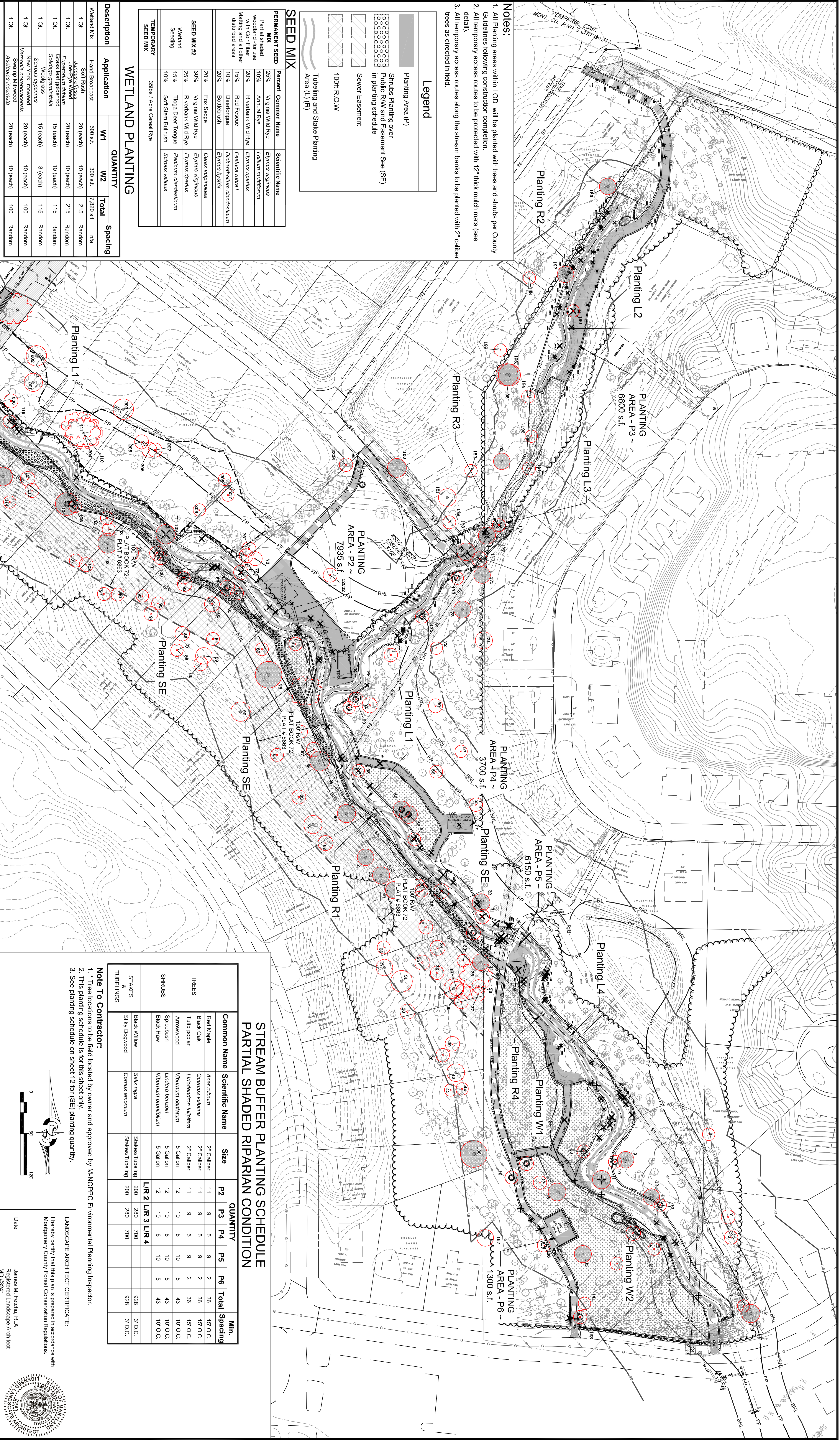
Prepared for:
Montgomery County Department of
Hollywood Branch
255 Rockville Pike, Suite 120
Rockville, Maryland 20850
Phone: (240) 777-7707
Attn: Mr. John Holisher

Hollywood Branch Stream Stabilization
Preliminary Forest Conservation Plan
Planting Plan

DATE:	07/11		
DESIGNED:	HT/JF		
DRAFTED:	HT		
CHECKED:	JF		
BASE DATA:	CP/JA		
NO.	REVISIONS	BY	DATE

CPJ Environmental Services Division
STREAM RESTORATION - STORMWATER MANAGEMENT - INSPECTION
90 CLIPPER ROAD, STE 205 GAITHERSBURG, MARYLAND 20878
Phone: (301) 251-5573 E-mail: env@cpj.com Fax: (301) 251-4551
SILVER SPRING, MD FREDERICK, MD FAIRFAX, VA

SCALE
AS SHOWN
SHEET
13
OF 15 SHEETS
JOB NO.
38-507



- Notes:**
- All Planting areas within 10D will be planted with trees and shrubs per County Guidelines following construction completion.
 - All temporary access routes to be protected with 12" thick mulch mats (see detail).
 - All temporary access routes along the stream banks to be planted with 2" caliber trees as directed in field.

Legend

	Planting Area (P)
	Shrubs Planting over Public ROW and Easement See (SE) in planting schedule
	Sewer Easement
	100ft R.O.W.
	Tubelining and Stake Planting Area (L) (R)

SEED MIX

PERMANENT SEED MIX	Percent	Common Name	Scientific Name
Partial shaded woodland - for use with Oak Fiber Matting and all other disturbed areas	25%	Virginia Wild Rye	Elymus virginicus
	10%	Annual Rye	Lolium multiflorum
	20%	Riverbank Wild Rye	Elymus riparius
	15%	Red Fescue	Festuca rubra L.
	10%	Danthonia	Dichanthium clandestinum
	20%	Boehmeria	Elymus hystrix
	20%	Fox Sedge	Carex vulpocarpa
	30%	Virginia Wild Rye	Elymus virginicus
	25%	Riverbank Wild Rye	Elymus riparius
	15%	Toga Deer Tongue	Panicum clandestinum
	10%	Soft Stem Bulrush	Scirpus validus
TEMPORARY SEED MIX		35lbs / Acre Cereal Rye	

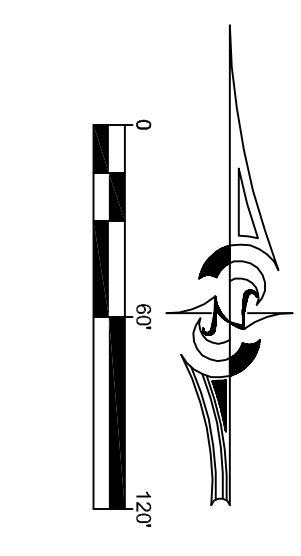
WETLAND PLANTING

Description	Application	QUANTITY		Spacing
		W1	W2	
Wetland Mix	Hand Broadcast	600 s.f.	300 s.f.	7,820 s.f.
1 Qt.	Soft Rain	10 (each)	10 (each)	215
1 Qt.	<i>Juncus effusus</i>	20 (each)	10 (each)	215
1 Qt.	<i>Elymus riparius</i>	20 (each)	10 (each)	215
1 Qt.	Grass leaf goldfinch	15 (each)	10 (each)	115
1 Qt.	<i>Solidago granulata</i>	15 (each)	8 (each)	115
1 Qt.	<i>Scirpus oymansii</i>	20 (each)	10 (each)	100
1 Qt.	New York Torweed	20 (each)	10 (each)	100
1 Qt.	<i>Veronica noveboracensis</i>	20 (each)	10 (each)	100
1 Qt.	Swamp Milkweed	20 (each)	10 (each)	100
1 Qt.	<i>Asclepias incarnata</i>	20 (each)	10 (each)	100

STREAM BUFFER PLANTING SCHEDULE PARTIAL SHADED RIPARIAN CONDITION

Common Name	Scientific Name	Size	QUANTITY						Min. Spacing
			P2	P3	P4	P5	P6	Total	
TREES									
Red Maple	<i>Acer rubrum</i>	2" Caliber	11	9	5	9	2	36	15' O.C.
Black Oak	<i>Quercus velutina</i>	2" Caliber	11	9	5	9	2	36	15' O.C.
Tulip poplar	<i>Liriodendron tulipifera</i>	2" Caliber	11	9	5	9	2	36	15' O.C.
Arrowwood	<i>Viburnum dentatum</i>	5 Gallon	12	10	6	10	5	43	10' O.C.
Spicebush	<i>Lindera benzoin</i>	5 Gallon	12	10	6	10	5	43	10' O.C.
Black Haw	<i>Viburnum purpureum</i>	5 Gallon	12	10	6	10	5	43	10' O.C.
SHRUBS									
Black Willow	<i>Salix nigra</i>	Stakes/Tubelining	200	280	700			928	3' O.C.
Silky Dogwood	<i>Cornus amomum</i>	Stakes/Tubelining	200	280	700			928	3' O.C.

- Note To Contractor:**
- * Tree locations to be field located by owner and approved by M-NCPPC Environmental Planning Inspector.
 - This planting schedule is for this sheet only.
 - See planting schedule on sheet 12 for (SE) planting quantity.



LANDSCAPE ARCHITECT CERTIFICATE:
 I hereby certify that this plan is prepared in accordance with Montgomery County Forest Conservation Regulations.
 James M. Felsch, R.L.A.
 R.L.A. Landscape Architect
 MD #5241



Prepared for:
 Montgomery County, Department of
 Hollywood Branch
 MNCPPC
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 Rockville, Maryland 20850
 Phone: (240) 777-7707
 Attn: Mr. John Holisher

MONTGOMERY COUNTY, MD
 Hollywood Branch
 MNCPPC
 P 825
 Tax Map JR61

Hollywood Branch Stream Stabilization
 Preliminary Forest Conservation Plan
 Plan View

DATE: 07/11
 DESIGNED: HT/JF
 DRAFTED: HT
 CHECKED: JF
 BASE DATA: CPJA

NO.	REVISIONS	BY	DATE

CPJ Environmental Services Division
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SCALE AS SHOWN
 SHEET 14
 OF 15 SHEETS
 JOB NO. 38-507

