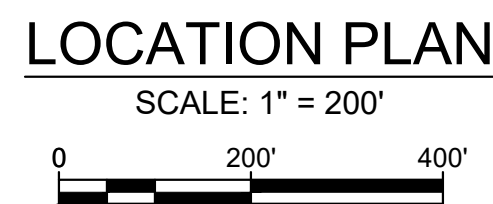


JOHNS HOPKINS MEDICAL OFFICE & SURGERY CENTER AT BELWARD ROCKVILLE, MARYLAND FINAL FOREST CONSERVATION PLANS

GENERAL NOTES:

1. 2 TOPOGRAPHY INFORMATION PROVIDED BY PENNONTI ASSOCIATES, INC DATED APRIL 2020 AND AVAILABLE MONTGOMERY COUNTY RECORDS.
2. BOUNDARY AND INFORMATION HAS BEEN PROVIDED BY PENNONTI ASSOCIATES, INC DATED APRIL 2020
3. EXISTING ZONING: LSC-1.0 H-150 T (LIFE SCIENCES CENTER).
4. PROPOSED ZONING: LSC-1.0 H-150 T (LIFE SCIENCES CENTER).
5. GROSS TRACT AREA: ±107.27 ACRES
6. ELECTION DISTRICT: 9
7. PLANNING AREA: 20 GAITHERSBURG & VICINITY
8. TAX MAP NO. F531, PARCEL P500
9. W.S.S.C. MAP: 220 NW 10 & 220 NW 11
10. ADC MAP: MONTGOMERY COUNTY MAP 5163, GRIDS E-3, E-4, F-3, & F-4
11. PROPOSED USE: INSTITUTIONAL
12. EXISTING FOREST COVER: ±3.06 ACRES
13. EXISTING WATER CATEGORY W-1, EXISTING SEWER CATEGORY S-1.
14. THE BELWARD FARM IS AN HISTORIC MASTER PLAN INDIVIDUAL SITE.
15. THERE ARE NO CEMETERIES LOCATED ON OR ADJACENT TO THE SITE.
16. 10' PUBLIC UTILITY EASEMENTS RUN ALONG ALL PUBLIC RIGHTS - OF-WAY.
17. ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, THE FOLLOWING SOILS ARE PRESENT ON THE SITE:
1C GAILA SILT LOAM (8-15% SLOPES)
2D GLENELG SILT LOAM (3-8% SLOPES)
16B BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS (15-25% SLOPES)
35B CHROME AND CONOWINGO SOILS (3-8% SLOPES)
35C CHROME SILT LOAM (8-15% SLOPES)
37B TRAVILAH SILT LOAM (3-8% SLOPES)
18. LOCATION AND DESIGN OF STORMWATER MANAGEMENT FACILITIES, ROADS, AND UTILITIES SHOWN HEREON ARE APPROXIMATE BASED ON PRELIMINARY DESIGN AND ARE SUBJECT TO FINAL ENGINEERING DURING SUBSEQUENT SUBDIVISION AND SITE PLAN REVIEW PROCESSES.
19. THE PROPERTY IS LOCATED IN THE POTOMAC RIVER WATERSHED (MD DNR LISTING #021402).
20. SPECIAL PROTECTION AREA: N/A

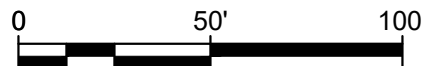


DEVELOPER'S CERTIFICATE	
The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. 82021-0186 including financial bonding, forest planting, maintenance, and all other applicable agreements.	
Developer's Name:	Johns Hopkins Health System - Facilities
	<i>Printed Company Name</i>
Contact Person or Owner:	Sally MacConnell
	<i>Printed Name</i>
Address:	1812 Ashland Avenue, Suite 400 Baltimore, MD 21205
Phone and Email:	410-955-9816 salmac@jhm.edu
Signature:	



LEGEND

- EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
EX. PROPERTY LINE AND
RIGHT OF WAY
EX. TREELINE
EXISTING TREE
EXISTING STREAM
EXISTING STREAM BUFFER
EXISTING SOILS
EXISTING WETLANDS
EXISTING WETLAND BUFFER
EXISTING BUILDING
EXISTING FENCE
EXISTING OVERHEAD
POWER LINES
15%-25% SLOPES
25%+ SLOPES
PROPOSED 2' CONTOUR
PROPOSED 10' CONTOUR
PROPOSED ROAD
EX. CATEGORY I
CONSERVATION EASEMENT
PROPOSED AFFORESTATION
AREA CATEGORY I EASEMENT
SPECIMEN TREE WITH
CRITICAL ROOT ZONE
LIMIT OF DISTURBANCE



MATCH LINE - SEE SHEET 2



MATCH LINE - SEE SHEET 5

DEVELOPER'S CERTIFICATE

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. JHOPU20001 including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: Johns Hopkins Health System - Facilities
Printed Company Name:
Contact Person or Owner: Sally MacConnell
Printed Name:
Address: 1812 Ashland Avenue, Suite 400 Baltimore, MD 21205
Phone and Email: 410-955-9816 salmac@jhmi.edu
Signature:

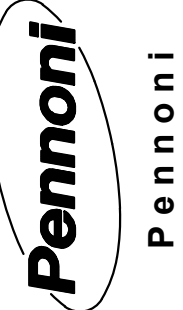
FINAL FOREST
CONSERVATION PLAN
JOHNS HOPKINS MEDICAL
OFFICE & SURGERY CENTER
AT BELWARD

TAX MAP FS31 PARCEL N500
9951 KEY WEST AVENUE
ROCKVILLE, MD 20850

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

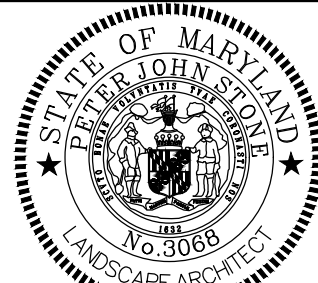
OWNER:
JOHNS HOPKINS FACILITIES AND REAL ESTATE
C/O MITCHELL HANNO, CHIEF REAL ESTATE OFFICER
3910 KESWICK ROAD, SUITE N3100
BALTIMORE, MD 21211

DEVELOPER:
JOHNS HOPKINS HEALTH SYSTEM - FACILITIES
ATTN: TONIA BURNETTE
1812 ASHLAND AVENUE, SUITE 400
BALTIMORE, MD 21205



Pennoni
Engineers, Surveyors, Planners, Landscape Architects.
8800 McGaw Road, Suite 100 Columbia, MD 21045
T 410-997-5900 F 410-997-9282

SEAL



BY:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3068, EXPIRATION DATE: 12-31-2027.



DESIGNED: JSN
DRAWN: JSN
DATE: 7/13/2021
SCALE: 1"=50'

FILE NO: JHOPU20001
SHEET: 3 OF 12

LEGEND

EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
EX. PROPERTY LINE AND
RIGHT OF WAY
EX. TREELINE

EXISTING TREE

EXISTING STREAM
EXISTING STREAM BUFFER
EXISTING SOILS
EXISTING WETLANDS
EXISTING WETLAND BUFFER

EXISTING BUILDING

EXISTING FENCE
EXISTING OVERHEAD
POWER LINES

15%-25% SLOPES

25%+ SLOPES

PROPOSED 2' CONTOUR

PROPOSED 10' CONTOUR

PROPOSED ROAD

PROPOSED PRESERVATION
AREA

SPECIMEN TREE WITH
CRITICAL ROOT ZONE

LIMIT OF DISTURBANCE

0 50' 100'

DEVELOPER'S CERTIFICATE

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. 890210129 including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: Johns Hopkins Health System - Facilities

Printed Company Name

Contact Person or Owner: Sally MacConnell

Printed Name

Address: 1812 Ashland Avenue, Suite 400 Baltimore, MD 21205

Phone and Email: 410-955-9816 salmac@jhm.edu

Signature:

MATCH LINE -
SEE SHEET 4

MATCH LINE - SEE SHEET 5

MATCH LINE - SEE SHEET 4

MATCH LINE - THIS SHEET

OWNER: JOHN HOPKINS FACILITIES AND REAL ESTATE

C/O MITCHELLMAN, CHIEF REAL ESTATE OFFICER

3910 KESWICK ROAD, SUITE N3100

BALTIMORE, MD 21201

DEVELOPER: JOHN HOPKINS HEALTH SYSTEM - FACILITIES

ATTN: TONIA BURNETTE

1812 ASHLAND AVENUE, SUITE 400

BALTIMORE, MD 21205

Pennoni

Pennoni

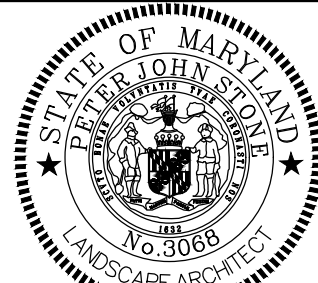
Engineers, Surveyors, Planners, Landscape Architects.
8890 McGaw Road, Suite 100 Columbia, MD 21045
T 410-997-5900 F 410-997-9282

FINAL FOREST
CONSERVATION PLAN
JOHNS HOPKINS MEDICAL
OFFICE & SURGERY CENTER
AT BELWARD

TAX MAP FS31 PARCEL N500
9951 KEY WEST AVENUE
ROCKVILLE, MD 20850

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

SEAL



BY:

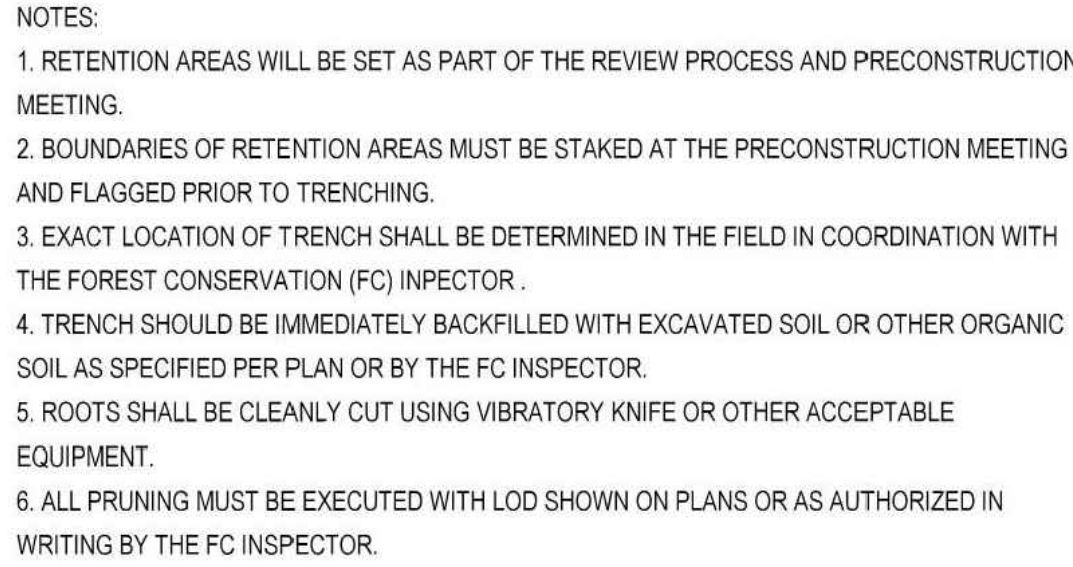
PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3068, EXPIRATION DATE: 12-31-2027.

Pennoni

DESIGNED: JSN
DRAWN: JSN
DATE: 7/13/2021
SCALE: 1"=50'

FILE NO: JHOPU20001
SHEET: 6 OF 12

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NTS

JOHNS HOPKINS HEALTH CARE & SURGERY CENTER AT BELWARD FARM PLAN NO X

A. Total tract area ...	138.15
B. Additions to tract area (Off-Site Work, etc.; construction required by this plan)...	0.00
C. Land dedication acres (parks, county facility, etc.) ...	0.00
D. Land dedication for roads or utilities (construction not required by this plan) ...	0.00
E. Area to remain in commercial agricultural production/use ...	0.00
F. Other deductions (specify)	0.00
G. Net Tract Area	138.15

Input the number "1" under the appropriate land use, limit to only one entry.

G. Afforestation Threshold ...	15%	x G =	20.72
H. Conservation Threshold ...	15%	x G =	20.72

I. Existing forest cover	=	29.80
J. Area of forest above afforestation threshold	=	9.08
K. Area of forest above conservation threshold	=	9.08

L. Forest retention above threshold with no mitigation=	22.54
M. Clearing permitted without mitigation=	7.26

N. Total area of forest to be cleared	=	24.56
O. Total area of forest to be retained	=	5.24

P. Reforestation for clearing above conservation threshold=	2.27
Q. Reforestation for clearing below conservation threshold=	30.97
R. Credit for retention above conservation threshold=	0.00
S. Total reforestation required=	33.23
T. Total afforestation required=	0.00
U. Credit for landscaping (may not exceed 20% of "S")=	0.00
V. Total reforestation and afforestation required=	33.23

FOREST CONSERVATION CHART	
EXISTING PRESERVATION AREA F-1	0.13 ACRES
EXISTING PRESERVATION AREA G	1.19 ACRES
EXISTING PRESERVATION AREA G-1	0.35 ACRES
EXISTING PRESERVATION AREA H-1	0.85 ACRES
EXISTING PRESERVATION AREA H-2	0.66 ACRES
EXISTING PRESERVATION AREA I-1	0.78 ACRES
TOTAL EXISTING PRESERVATION (EASTERN PARCELS)	3.96 ACRES
TOTAL EXISTING PRESERVATION 107.27 ACRE PARCEL	0 ACRES
EXISTING REFORESTATION AREA F	0.27 ACRES
EXISTING REFORESTATION AREA G	0.41 ACRES
EXISTING REFORESTATION AREA G-1	0.15 ACRES
EXISTING REFORESTATION AREA H-1	0.22 ACRES
EXISTING REFORESTATION AREA H-2	0.18 ACRES
EXISTING REFORESTATION AREA H-3	0.22 ACRES
TOTAL EXISTING REFORESTATION (EASTERN PARCELS)	1.45 ACRES
EXISTING CATEGORY I CONSERVATION EASEMENT PLANTING AREAS	13.35 ACRES
EXISTING CATEGORY I CONSERVATION EASEMENT PLANTING AREAS TO BE ABANDONED	1.23 ACRES
PROPOSED AFFORESTATION CATEGORY I EASEMENT - MISSION HILLS BUFFER (PHASES 1A-1C)	7.37 ACRES
PROPOSED AFFORESTATION CATEGORY I EASEMENT - STREAM BUFFER (PHASES 2A-2F)	8.75 ACRES
PROPOSED AFFORESTATION CATEGORY I EASEMENT - FUTURE PHASES (PHASES 3A-3C)	1.55 ACRES
PROPOSED AFFORESTATION CATEGORY II EASEMENT	0 ACRES
TOTAL AFFORESTATION (PARCELS A AND B)	19.12 ACRES
OFFSITE FOREST CONSERVATION	14.11 ACRES
TOTAL REFORESTATION AND AFFORESTATION CONSERVATION PROVIDED (C+D+E)	33.23 ACRES

A. PLANT EX. FOREST CONSERVATION EASEMENT (MISSION HILLS BUFFER): 7.37 ACRES

B. ON-SITE RETENTION: 1.28 ACRES

C. EX REFORESTATION (EASTERN PARCELS): 1.45 ACRES

A. OFFSITE FOREST CONSERVATION: 14.11 ACRES
B. PLANT EX. FOREST CONSERVATION EASEMENT (STREAM BUFFERS : 8.75 ACRES

A. REMAINING ONSITE AFFORESTATION: 1.55 ACRES

PHASE 1 SHALL BE ACCOMPLISHED WITHIN 2 PLANTING SEASONS OF THE FIRST SEDIMENT CONTROL PERMIT FOR THE PROJECT.

PHASE 2 SHALL OCCUR WITHIN TWO PLANTING SEASONS OF THE SECOND SEDIMENT CONTROL PERMIT FOR THE PROJECT.

PHASE 3 SHALL BE ACCOMPLISHED CONCURRENT WITHIN TWO PLANTING SEASONS OF THE SEDIMENT CONTROL PERMIT FOR THE DEVELOPMENT ADJOINING PLANTING AREAS NOTED AS PHASE 3A-3C.

DEVELOPER'S CERTIFICATE	
The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. <u>820210120</u> including financial bonding, forest planting, maintenance, and all other applicable agreements.	
Developer's Name:	Johns Hopkins Health System - Facilities Permitted Company Name _____
Contact Person or Owner:	Sally MacConnell Permitted Name _____
Address:	1912 Ashland Avenue, Suite 400 Baltimore, MD 21205 _____
Phone and Email:	410-955-9816 salmac@jhmi.edu _____
Signature:	_____ _____

JOHNS HOPKINS HEALTH SYSTEM - FACILITIES
ATTN: TONIA BURNETTE
1812 ASHLAND AVENUE, SUITE 400
BALTIMORE, MD 21205

DEVELOPER:

[illegible]

FINAL FOREST
CONSERVATION NOTES
JOHNS HOPKINS MEDICAL
OFFICE & SURGERY CENTER
AT BELWARD

TAX MAP FS31 PARCEL N500
9951 KEY WEST AVENUE
ROCKVILLE, MD 20850

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND



DESIGNED: JSN
DRAWN: JSN
DATE: 7/13/2021
SCALE: AS SHOWN

FILE NO: JHOPU20001

SHEET: 7 OF 12

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INSPECTIONS

All field inspections must be requested by the contractor.

Field Inspections must be conducted as follows:

Plans without Planting Requirements

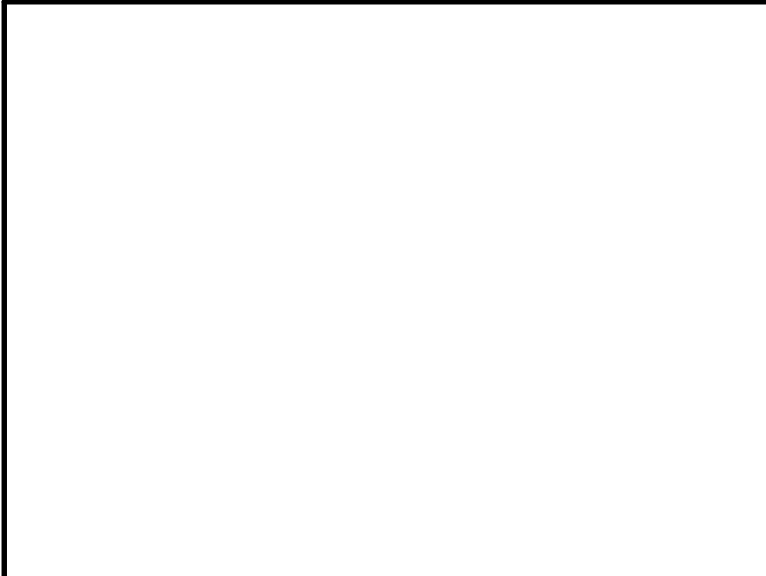
1. After the limits of disturbance have been established and grading begins.
2. After necessary stress reduction measures have been installed, but before any construction begins building permit.
3. After completion of all construction and before final grading, to determine the level of conservation.

Additional Requirements for Plans with Planting Requirements

4. Before the start of any required reforestation.
5. After the required reforestation and before final grading, to ensure that the planting is acceptable and proper.
6. At the end of the maintenance period, to ensure compliance with provisions of the planting plan, and to determine the level of conservation.

Measures not specified on the Forest Conservation Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.

SHEET: 9 OF 12



AFFORESTATION AREA	38
SIZE OF AFFORESTATION AREA IN ACRES	0.38
NUMBER OF 2" CALIPER TREES PROVIDED (100/ACRE) (100% OF TREES TO BE 2")	38
NUMBER OF SHRUBS AT 1/3 THE NUMBER OF TREES (2" TREES @ 100/ACRE)	12

QUANTITY OF 2" CALIPER TREES	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
3	ACER RUBRUM / RED MAPLE	2"	CONTAINER	
1	BETULA NIGRA / RIVER BIRCH	2"	CONTAINER	
3	QUERCUS RUBRA / RED OAK	2"	CONTAINER	
3	LIRIODENDRON TULIPIFERA / TULIP TREE	2"	CONTAINER	
3	NYSSA SYLVATICA / BLACK GUM	2"	CONTAINER	
3	QUERCUS PALUSTRIS / PIN OAK	2"	CONTAINER	
1	FAGUS GRANDIFOLIA / AMERICAN BEECH	2"	CONTAINER	
3	PLATANUS OCCIDENTALIS / SYCAMORE	2"	CONTAINER	
3	AMELANCHIER CANADENSIS / SERVICEBERRY	2"	CONTAINER	
3	SASSAFRAS ALBIDUM / SASSAFRAS	2"	CONTAINER	

3	ILEX OPACA / AMERICAN HOLLY	2"	CONTAINER	
3	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	2"	CONTAINER	
3	PINUS VIRGINIANA / VIRGINIA PINE	2"	CONTAINER	

38

2	RHOODENDRON PERICLYMENOIDES / PINXTERBLOOM AZALEA	18-24" HEIGHT	CONTAINER	1. FULL FORM; PLANT IN GROUPS OF THREE OR MORE 2. PLANT 1 JIM DANDY PER EVERY GROUP OF 5 RED SPRITE
2	MYRICA PENSYLVANICA / NORTHERN BAYBERRY			
1	ILEX VERTICILLATA 'JIM DANDY'			
3	ILEX VERTICILLATA 'RED SPRITE'			
2	HAMAMELIS VIRGINIANA / COMMON WITCHHAZEL			
2	VACCINIUM CORYMBOSUM / HIGHBUSH BLUEBERRY			

12

AFFORESTATION AREA	30
SIZE OF AFFORESTATION AREA IN ACRES	0.71
NUMBER OF 2" CALIPER TREES PROVIDED (100/ACRE) (100% OF TREES TO BE 2")	71
NUMBER OF SHRUBS AT 1/3 THE NUMBER OF TREES (2" TREES @ 100/ACRE)	24

QUANTITY OF 2" CALIPER TREES	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
5	ACER RUBRUM / RED MAPLE	2"	CONTAINER	
2	BETULA NIGRA / RIVER BIRCH	2"	CONTAINER	
7	QUERCUS RUBRA / RED OAK	2"	CONTAINER	
8	LIRIODENDRON TULIPIFERA / TULIP TREE	2"	CONTAINER	
6	NYSSA SYLVATICA / BLACK GUM	2"	CONTAINER	
7	QUERCUS PALUSTRIS / PIN OAK	2"	CONTAINER	
2	FAGUS GRANDIFOLIA / AMERICAN BEECH	2"	CONTAINER	
6	PLATANUS OCCIDENTALIS / SYCAMORE	2"	CONTAINER	
6	AMELANCHIER CANADENSIS / SERVICEBERRY	2"	CONTAINER	
6	SASSAFRAS ALBIDUM / SASSAFRAS	2"	CONTAINER	

6	ILEX OPACA / AMERICAN HOLLY	2"	CONTAINER	
6	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	2"	CONTAINER	
6	PINUS VIRGINIANA / VIRGINIA PINE	2"	CONTAINER	

71

5	RHOODENDRON PERICLYMENOIDES / PINXTERBLOOM AZALEA	18-24" HEIGHT	CONTAINER	1. FULL FORM; PLANT IN GROUPS OF THREE OR MORE 2. PLANT 1 JIM DANDY PER EVERY GROUP OF 5 RED SPRITE
5	MYRICA PENSYLVANICA / NORTHERN BAYBERRY			
1	ILEX VERTICILLATA 'JIM DANDY'			
3	ILEX VERTICILLATA 'RED SPRITE'			
5	HAMAMELIS VIRGINIANA / COMMON WITCHHAZEL			
5	VACCINIUM CORYMBOSUM / HIGHBUSH BLUEBERRY			

24

DEVELOPER'S CERTIFICATE

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. 839210120 including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: Johns Hopkins Health System - Facilities
Printed Company Name

Contact Person or Owner: Sally MacConnell
Printed Name

Address: 1812 Ashland Avenue, Suite 400 Baltimore, MD 21205

Phone and Email: 410-955-9816 salmac@jhmi.edu

Signature: _____

FINAL FOREST CONSERVATION
PLANTING SCHEDULES
JOHNS HOPKINS MEDICAL
OFFICE & SURGERY CENTER
AT BELWARD

TAX MAP FS31 PARCEL N500
9951 KEY WEST AVENUE
ROCKVILLE, MD 20850

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND



DESIGNED: JSN
DRAWN: JSN
DATE: 7/13/2021
SCALE: AS SHOWN

FILE NO: JHOPU20001
SHEET: 12 OF 12

OWNER:

JOHNS HOPKINS FACILITIES AND REAL ESTATE
C/O MITCHELL HANNO, CHIEF REAL ESTATE OFFICER
3910 KESWICK ROAD, SUITE N3100
BALTIMORE, MD 21211

DEVELOPER:

JOHNS HOPKINS HEALTH SYSTEM - FACILITIES
ATTN: TONIA BURNETTE
1812 ASHLAND AVENUE, SUITE 400
BALTIMORE, MD 21205



Pennoni
Engineers, Surveyors, Planners, Landscape Architects.
8890 McGaw Road, Suite 100 Columbia, MD 21045
T 410-997-5900 F 410-997-9282