

X:\ROCKVILLE\112-715-034 - ANACOSTIA RIVER TRAIL\NW B05-CAD\TASKS 05 - 06 NORTHWEST BRANCH TRAIL\TCP1.0 - CDS.DWG\3/31/2020 3:42 PM - J. ASTIRTON

WOODLAND CONSERVATION SUMMARY TABLE

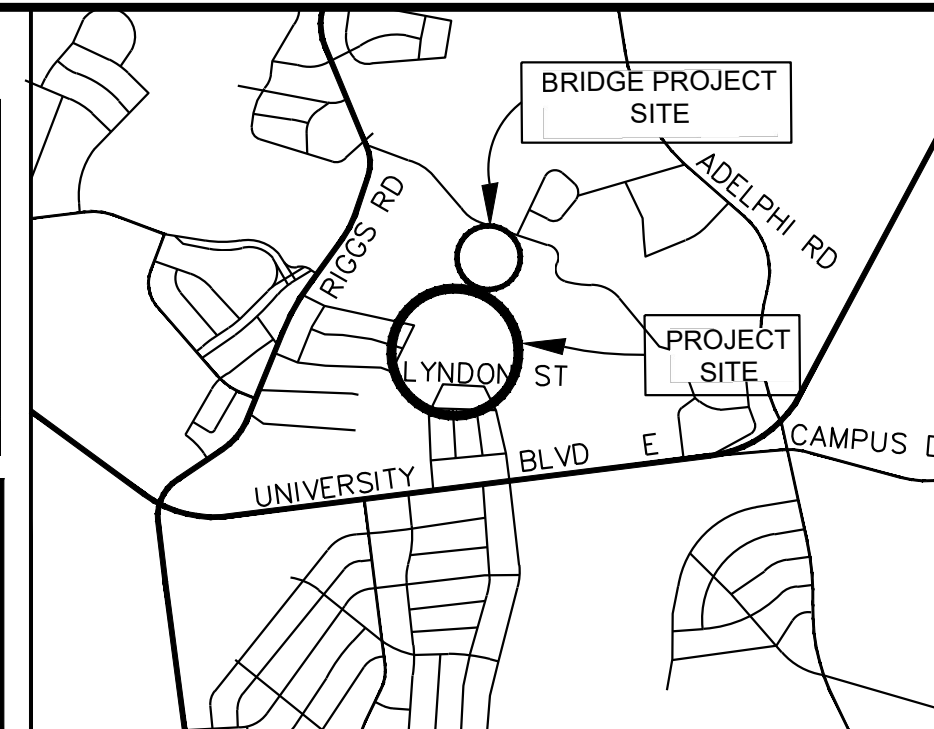
SHEET	GROSS PROJECT AREA	100-YEAR FLOODPLAIN (FP)	NET TRACT AREA (NTA)	EXISTING WOODLAND (NTA)	EXISTING WOODLAND (FP)	WOODLAND CLEARED (C-NTA)	WOODLAND CLEARED (C-FP)	WOODLAND PRESERVED (WPA)	WOODLAND REFORESTED (WRA)	WOODLAND RETAINED/NOT CREDITED (WR-NC)	WOODLAND RETAINED/ASSUMED CLEARED (WR-AC)
TCP1.0	0.12	0.12	0.00	0.00	0.06	0.00	0.06	0.00	0.00	-	-
TCP1.1	0.32	0.32	0.00	0.00	0.04	0.00	0.04	0.00	0.10	-	-
TCP1.2	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
TCP1.3	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
TOTAL	0.94	0.94	0.00	0.00	0.10	0.00	0.10	0.00	0.10	-	-



MISS UTILITY

48 HOURS BEFORE YOU DIG
CALL "MISS UTILITY" AT 811
OR LOG ON TO www.missutility.net

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE PRINCE GEORGE'S COUNTY CODE.



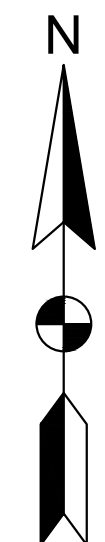
VICINITY MAP
1"=2000'

NOTE:
GENERALLY, ROOT PRUNING AND TREE PROTECTION FENCE ARE LOCATED AT THE LIMIT OF DISTURBANCE. THEREFORE, THE LAYOUT OF LINES DEPICTING TREE PROTECTION FENCE AND ROOT PRUNING IS DIAGRAMMATIC, AND FOR REFERENCE ONLY. PLEASE REFER TO THE STRESS REDUCTION DETAIL FOR MORE INFORMATION.

GENERAL NOTES:

- THE TOPOGRAPHY SHOWN ON THIS PLAN IS FROM FIELD SURVEY COMPLETED BY AMT AND MAPPING FROM GIS.
- THERE IS ONE WETLAND ON SITE.
- THERE IS FLOODPLAIN ON THIS SITE (FEMA 2403C0126E AND 2403C0127E)
- THE SOURCE OF THE PROPERTY BOUNDARIES ON THIS PLAN IS BASED ON GIS.
- IN A LETTER DATED 2020-07-13, AMT HAS REQUESTED THE MARYLAND DEPARTMENT OF NATURAL RESOURCES NATURAL HERITAGE PROGRAM REVIEW THE PROJECT SITE FOR ANY RARE, THREATENED, OR ENDANGERED SPECIES. THERE ARE 23 SPECIMEN TREES LOCATED ON THE SUBJECT PROPERTY.

THIS PLAN IS FOR TREE PROTECTION/
FOREST CONSERVATION PLAN PURPOSES ONLY



N
MD STATE PLANE NAD 83

0 100' 200'
SCALE: 1"=100'

AMT

A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
700 KING FARM BOULEVARD, 3RD FLOOR
ROCKVILLE, MD 20850
PHONE (301) 881-2545 | FAX (301) 881-0814
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

GILMORE LIGHTING DESIGN
LIGHTING DESIGN

12/05/2022

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. 32561, EXPIRATION DATE 01/06/24



NORTHWEST BRANCH
TRAIL LIGHTING STUDY
MERRIMAC DRIVE TO LYNDON
STREET
ADELPHI, MD 20783

NOT FOR
CONSTRUCTION
DECEMBER 2022

LEGEND	MAJOR CONTOUR
	MINOR CONTOUR
	WATER BODY
	FEMA 100-YR FLOODPLAIN
	PROPERTY LINE
	EXISTING WOODLAND (WPA)
	EXISTING SIDEWALK OR TRAIL
	EXISTING PAVING
	EXISTING BRIDGE
	EXISTING BUILDING
	WL WETLAND (FROM GIS)
	WB WETLAND BUFFER
	POST STORM MANHOLE
	SINGLE POST SIGN
	LIGHT POLE
	AIR CONDITIONER UNIT
	SANITARY SEWER MANHOLE
	WATER VALVE
	WATER METER
	BOLLARD
	TRAVERSE
	BENCHMARK
	CURB AND GUTTER
	WATERLINE PAINT MARK
	OVERHEAD ELECTRIC LINE
	GAS LINE PAINT MARK
	CHAIN LINK FENCE
(DATR)	DATA ACCORDING TO RECORD
	BUILDING

	TREE STAND
	WOODLAND TO BE REMOVED (C-FP)
	TEMPORARY TREE PROTECTION FENCE
	TRUNK PROTECTION
	TEMPORARY TREE PROTECTION SIGNAGE
	SPECIMEN TREE AND CRITICAL ROOT ZONE
	PRIMARY MANAGEMENT AREA
	STUDY AREA
	STREAM BUFFER
	STREAM CENTERLINE
	PERMANENT TREE PROTECTION FENCE AND SIGNAGE
	AFFORESTATION/REFORESTATION SIGNAGE
	REFORESTATION AREA

PROPERTY INFORMATION: (4 parcels)

Plat: A17-1821 Block:F Lot: Parcel:044
Description: RESERVED FOR NW PARKWAY PARCEL 1
Subdivision: ADELPHI KNOLLS
Acreage: 0.364
Liber: 03003 Folio: 298
Tax Map Grid: 32-E2
WSSCGrid: 209NE02
Assessment District: Planning Area: 65
Planning Analysis Zone:

Plat: Block: Lot: Parcel:142
Description: Subdivision:
Acreage: 20.73
Liber: 01418 Folio: 003
Tax Map Grid: 32-E2
WSSCGrid: 210NE02
Assessment District: Planning Area: 65
Planning Analysis Zone:

Plat: Block: Lot: Parcel:018
Description: TRANSMISSION LINE RIGHT OF WAY PUBLIC UTILITY OPER PROP
Subdivision:
Acreage: 74.20
Liber: Folio:
Tax Map Grid: 32-E2
WSSCGrid: 210NE02
Assessment District: Planning Area: 65
Planning Analysis Zone:

Woodland Conservation Worksheet
for Governmental and Linear Projects in Prince George's County

SECTION 1-Establishing Site Information	
Property Description or Name:	Northwest Branch Spur Trail
Project Location:	Merrimac Drive to Lyndon Street, Adelphi, MD 20783
TCF2 Number:	TCF2-042-2020
NRI Number:	NRI-202-2022
Zone:	ROS, R-R
Gross Tract:	98.15 acres
Project Area/Limits:	0.78 acres
SECTION 2-Determining Requirements	
Existing Woodland in Project Limits = WCT	0.10
Woodland Cleared in Project Limits	0.10
Total area of woodland cleared (subject to 1:1 replacement)	0.10
Off-Site Woodland Conservation Provided (afforestation)	0.00
Off-Site Woodland Conservation Provided (preservation)	0.00
Woodland Conservation Requirement:	0.10 acres
SECTION 3-Meeting the Requirements	
Woodland Preserved	0.00
Afforestation /Reforestation	0.10
Natural Regeneration	0.00
Landscape Credit	0.00
Specimen/Historic Tree Credit (CRZ area *2.0)	0.00
Forest Enhancement Credit (Area *25)	0.00
Street Tree Credit (Existing or 10-year canopy coverage)	0.00
Prior Credit for Off-site Woodland Conservation	0.00
Current Credit for Off-site Woodland Conservation	0.00
Off-site Woodland Conservation provided (afforestation)	0.00
Off-site Woodland Conservation provided (preservation)	0.00
Area Approved for Fee-in-lieu/PFA	0.00
Area Approved for Fee-in-lieu/non-PFA	0.00
Woodland Conservation Provided	0.10 acres

Prepared by:

Signed

04/25/2023
Date

SPECIMEN, CHAMPION AND HISTORIC TREE TABLE

NO.	COMMON NAME	SCIENTIFIC NAME	D.B.H (INCHES)	CRZ RADIUS (FEET)	CONDITION RATING	CONDITION COMMENTS	DISPOSITION
T2	American elm	<i>Ulmus americana</i>	35.00	52.50	AVG.	Tag #23, vines on trunk	Preserve
T4	Pin oak	<i>Quercus palustris</i>	47.00	70.50	GOOD/AVG.	Dead branches	Preserve, build trail on grade
T5	Pin oak	<i>Quercus palustris</i>	52.50	78.75	AVG/POOR	Two trunks missing, branches dead	Preserve, build trail on grade
T6	Pin oak	<i>Quercus palustris</i>	36.50	54.75	GOOD/AVG.	Broken branches, some dead limbs	Preserve, build trail on grade
T7	Green ash	<i>Fraxinus pennsylvanica</i>	41.50	62.25	POOR	Hollowed out trunk, dead branches, in decline, fruiting bodies	Preserve, build trail on grade
T9	Sycamore	<i>Platanus occidentalis</i>	32.00	48.00	AVG.	Vine on trunk	Preserve
T10	Mockernut hickory	<i>Carya tomentosa</i>	33.50	50.25	GOOD/AVG.	Leaning, poor form	Preserve
T11	Sycamore	<i>Platanus occidentalis</i>	32.00	48.00	AVG.	Epic or mic growth, leaning	Preserve
T12	Sycamore	<i>Platanus occidentalis</i>	28.00	42.00	GOOD/AVG.	Leaning	Preserve
T13	Mockernut hickory	<i>Carya tomentosa</i>	44.50	66.75	AVG/POOR	Cut leader, epicormic growth	Preserve
T14	Mockernut hickory	<i>Carya tomentosa</i>	38.50	57.75	GOOD/AVG.		Preserve
T15	Mockernut hickory	<i>Carya tomentosa</i>	31.50	47.25	AVG.	Crowded root zone	Preserve
T16	American elm	<i>Ulmus americana</i>	36.00	54.00	GOOD/AVG.	Leaning	Preserve
T17	Tulip poplar	<i>Liriodendron tulipifera</i>	40.00	60.00	GOOD/AVG.	poison ivy on trunk, on bank	Preserve
T18	Tulip poplar	<i>Liriodendron tulipifera</i>	40.00	60.00	AVG.	vines on trunk, broken branches	Preserve
T19	Sycamore	<i>Platanus occidentalis</i>	36.00	54.00	GOOD/AVG.	Leaning	Preserve
T20	Tulip poplar	<i>Liriodendron tulipifera</i>	36.00	54.00	AVG.	Broken crown, limb	Preserve
T21	Tulip poplar	<i>Liriodendron tulipifera</i>	42.00	63.00	AVG.	Codominant leaders (28, 24, 20)	Preserve
T22	Tulip poplar	<i>Liriodendron tulipifera</i>	54.00	81.00	GOOD		Preserve
T23	Sycamore	<i>Platanus occidentalis</i>	36.00	54.00	AVG/POOR	Vines on trunk, canopy, dead limbs	Preserve

* BOLD DENOTES SPECIMEN TREE

SOIL TYPES

SYMBOL	DESCRIPTION	HYDRIC?	K-FACTOR
CF	CODORUS AND HATBORO SOILS, FREQUENTLY FLOODED	NO	--
Ch	CODORUS-HATBORO-URBAN LAND COMPLEX, FREQUENTLY FLOODED	NO	--
EsA	ELSLINBORO SANDY LOAM, 0 TO 2 PERCENT SLOPES	NO	0.20
EuB	ELSLINBORO-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	NO	0.20
FbB	FALLSINGTON-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	NO	0.20
UrwB	URBAN LAND-WOODSTOWN COMPLEX, 0 TO 5 PERCENT SLOPES	NO	--
WuB	WOODSTOWN-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES	NO	0.28

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL

SIGNED: [Signature] DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #338
A. MORTON THOMAS & ASSOCIATES, INC.
800 KING FARM BOULEVARD, 4TH FLOOR
ROCKVILLE, MD 20852
Email: astreagle@amtengineering.com

PROPERTY OWNERS AWARENESS CERTIFICATE

I/WE, MARYLAND NATIONAL CAPITAL PARKS AND PLANNING COMMISSION OF PRINCE GEORGE'S COUNTY, HEREBY ACKNOWLEDGE THAT WE ARE AWARE OF THIS TYPE 2 TREE CONSERVATION PLAN (TCP2) AND THAT WE UNDERSTAND THE REQUIREMENTS AS SET FORTH IN THIS TCP2.

OWNER OR OWNERS REPRESENTATIVE: [Signature] DATE: 04/25/2023

PRINCE GEORGE'S PLANNING DEPARTMENT, M-NCPPC
ENVIRONMENTAL PLANNING SECTION
TYPE 2 TREE CONSERVATION PLAN APPROVAL

TCF2- 042 - 2020

APPROVED BY	DATE	ORD #	REASON FOR REVISION
Kim Funch	8/4/2023		NA

TYPE 2 TREE
CONSERVATION PLAN

TCP0.1

SHEET 01 OF 7

X:\ROCKVILLE\12-715-034 - ANACOSTIA RIVER TRAIL\NW B05-CAD\TASKS 05 + 06 NORTHWEST BRANCH TRAIL\TCP1.0 - CDS.DWG 3/31/2020 3:42 PM J. ASTIRTON



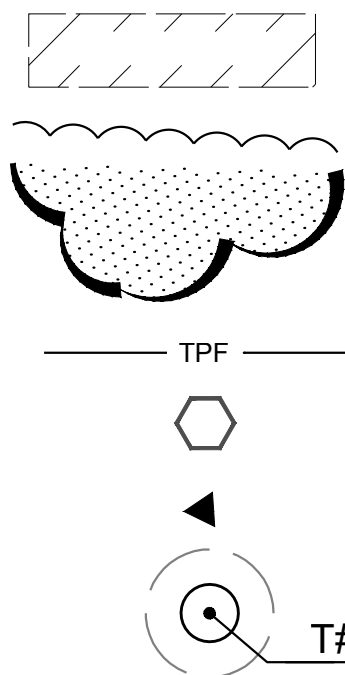
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- LEGEND**
- MAJOR CONTOUR
 - MINOR CONTOUR
 - WATER BODY
 - FP FEMA FLOODPLAIN
 - PROPERTY LINE
 - EXISTING WOODLAND (WPA)
 - EXISTING SIDEWALK OR TRAIL
 - EXISTING PAVING
 - EXISTING BRIDGE
 - EXISTING BUILDING
 - WL WETLAND (FROM GIS)
 - WB WETLAND BUFFER
 - STORM MANHOLE POST
 - SINGLE POST SIGN
 - LIGHT POLE
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 - SANITARY SEWER MANHOLE
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 - (DATR) DATA ACCORDING TO RECORDS

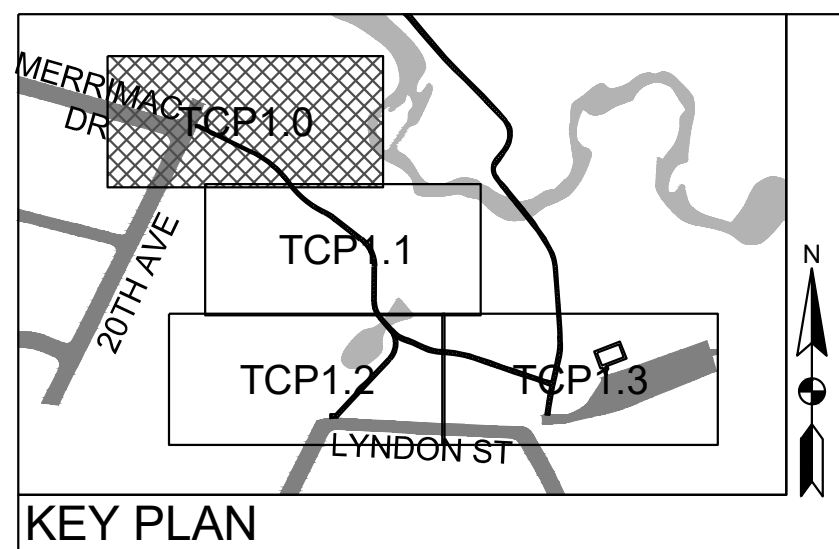


- BUILDING
- TREE STAND
- WOODLAND TO BE REMOVED (C-FP)
- TEMPORARY TREE PROTECTION FENCE
- TRUNK PROTECTION
- TEMPORARY TREE PROTECTION SIGNAGE
- SPECIMEN TREE AND CRITICAL ROOT ZONE

- PMA PRIMARY MANAGEMENT AREA
- STUDY AREA
- SB STREAM BUFFER
- CL STREAM CENTERLINE
- PPF PERMANENT TREE PROTECTION FENCE AND SIGNAGE
- REFORESTATION/REFORESTATION SIGNAGE
- REFORESTATION AREA

WOODLAND CONSERVATION SUMMARY TABLE

SHEET	GROSS PROJECT AREA	100-YEAR FLOODPLAIN (FP)	NET TRACT AREA (NTA)	EXISTING WOODLAND (NTA)	EXISTING WOODLAND (FP)	WOODLAND CLEARED (C-NTA)	WOODLAND CLEARED (C-FP)	WOODLAND PRESERVED (WPA)	WOODLAND REFORESTED (WRA)	WOODLAND RETAINED/NOT CREDITED (WR-NC)	WOODLAND RETAINED/ASSUMED CLEARED (WR-AC)
TCP1.0	0.12	0.12	0.00	0.00	0.06	0.00	0.06	0.00	0.00	-	-
TOTAL	0.12	0.12	0.00	0	0.06	0.00	0.06	0.00	0.00	-	-



PROPERTY OWNERS AWARENESS CERTIFICATE

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OWNER OR OWNERS REPRESENTATIVE: *[Signature]* DATE: 04/25/2023

MATCH LINE - SEE SHEET TCP1.1

SCALE: 1"=20'

THIS PLAN IS FOR TREE PROTECTION/
FOREST CONSERVATION PLAN PURPOSES ONLY

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: *[Signature]* DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #338
A. MORTON THOMAS & ASSOCIATES, INC.
800 KING FARM BOULEVARD, 4TH FLOOR
ROCKVILLE, MD 20852



PRINCE GEORGE'S PLANNING DEPARTMENT, M-NCPPC
ENVIRONMENTAL PLANNING SECTION
TYPE 2 TREE CONSERVATION PLAN APPROVAL

TCP2- 042 - 2020

APPROVED BY	DATE	ORD #	REASON FOR REVISION
00 <i>Kim Finch</i>	8/4/2023		NA
01			
02			
03			
04			
05			
06			

AMT

A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
700 KING FARM BOULEVARD, 3RD FLOOR
ROCKVILLE, MD 20850
PHONE (301) 881-2545 | FAX (301) 881-0814
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

GILMORE LIGHTING DESIGN
CITWORE LIGHTING DESIGN

12/05/2022

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I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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NORTHWEST BRANCH
TRAIL LIGHTING STUDY
MERRIMAC DRIVE TO LYNDON
STREET
ADELPHI, MD 20783

NOT FOR
CONSTRUCTION
DECEMBER 2022

MARK DATE DESCRIPTION

PROJECT NO: 112-715.034

SCALE: 1" = 20'

DESIGNED BY: AMT

DRAWN BY: AMT

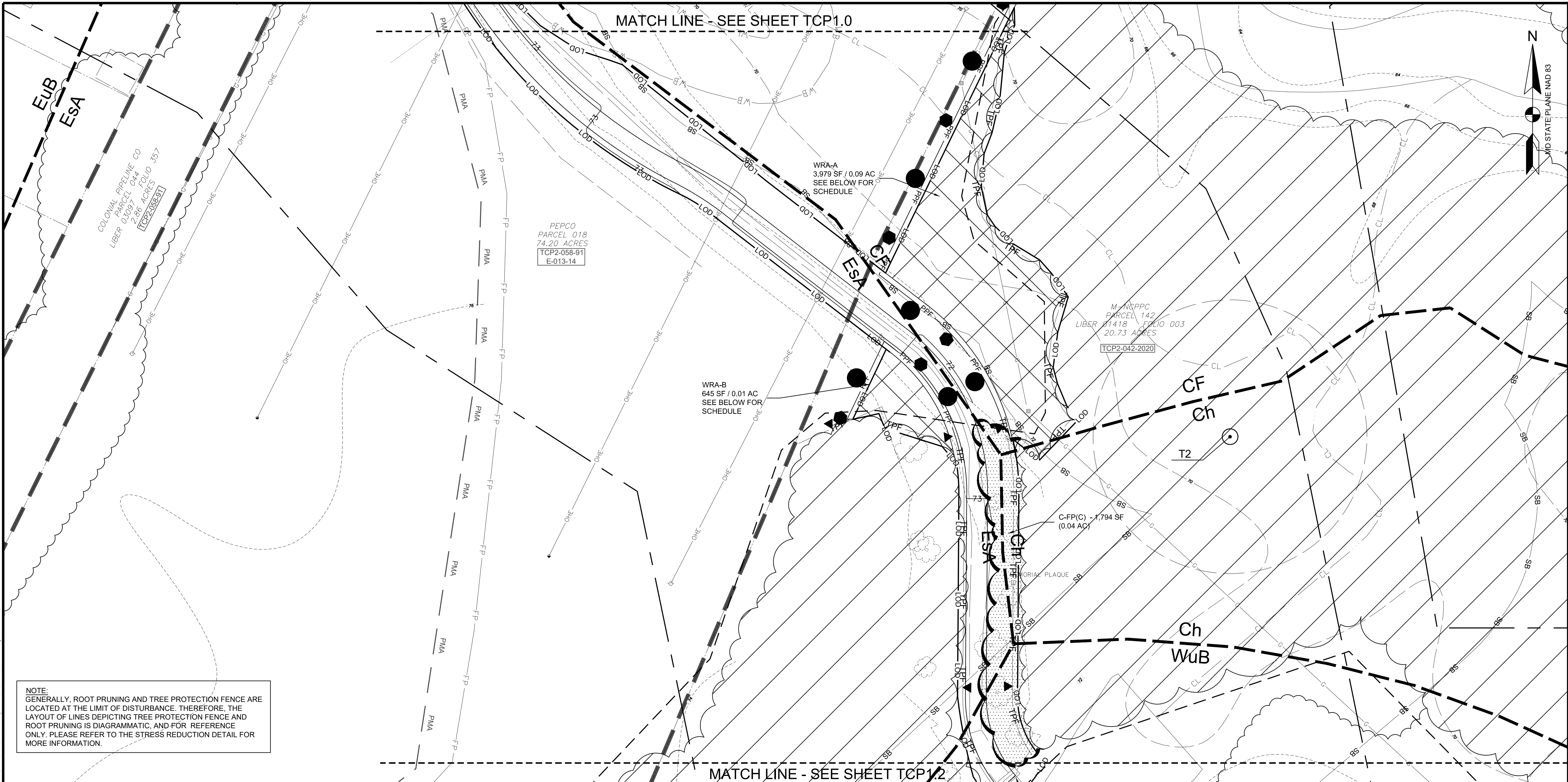
CHECKED BY: AMT

SHEET TITLE

TYPE 2 TREE
CONSERVATION PLAN


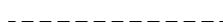
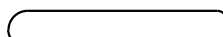
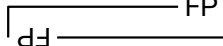


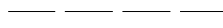

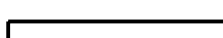











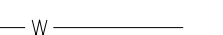


TCP1.0








SHEET 02 OF 7



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LEGEND

- | | |
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|  | BENCHMARK |
|  | CURB AND GUTTER |
|  | WATERLINE PAINT MARK |








- | | |
|---|---------------------------|
|  | OVERHEAD ELECTRIC LINE |
|  | GAS LINE PAINT MARK |
|  | CHAIN LINK FENCE |
|  | DATA ACCORDING TO RECORDS |
|  | BUILDING |
|  | WETLAND (FROM GIS) |
|  | WETLAND BUFFER |

- OVERHEAD ELECTRIC LINE
GAS LINE PAINT MARK
CHAIN LINK FENCE
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WETLAND BUFFER

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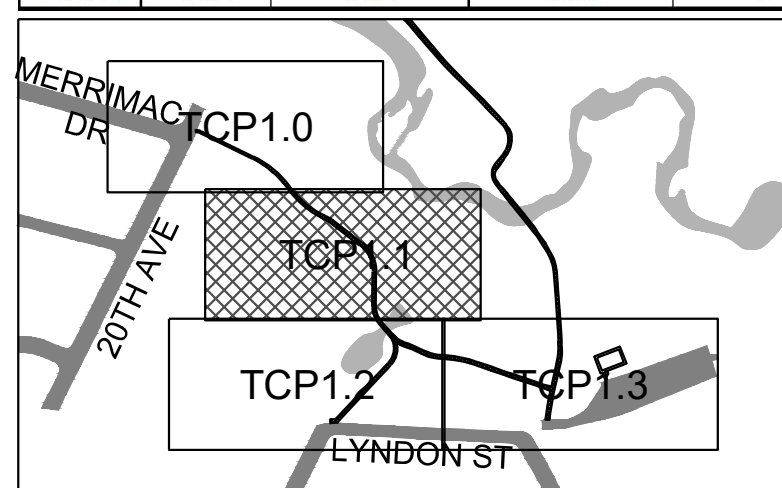
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TOTAL	0.32	0.32	0.00	0	0.04	0.00	0.04	0.00	0.10	-	-

KEY PLAN



PROPERTY OWNERS AWARENESS CERTIFICATE

I/WE, MARYLAND NATIONAL CAPITAL PARKS AND PLANNING COMMISSION OF PRINCE GEORGE'S COUNTY, HEREBY ACKNOWLEDGE THAT WE ARE AWARE OF THIS TYPE 2 TREE CONSERVATION PLAN (TCP2) AND THAT WE UNDERSTAND THE REQUIREMENTS AS SET FORTH IN THIS TCP2.

OWNER OR OWNERS REPRESENTATIVE Robert J. Walsh, Manager DATE 04/25/2023

REFORESTATION PLANTING SCHEDULE

PLANTING AREA	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	COMMENTS
#1 WRA-A area AC 0.09	2	1	<i>Carya glabra</i>	Pignut Hickory	1" CAL	B&B	PROVIDE A RANDOM PATTERN WITH A MINIMUM SPACING BETWEEN TREES OF 8' O.C.
	2	2	<i>Carpinus caroliniana</i>	Musclewood	1" CAL	B&B	
	2	3	<i>Carya tomentosa</i>	Mockernut Hickory	1" CAL	B&B	
	2	4	<i>Celtis occidentalis</i>	Hackberry	1" CAL	B&B	
	3	5	<i>Diospyros virginiana</i>	Persimmon	1" CAL	B&B	
	2	6	<i>Nyssa sylvatica</i>	Black Gum	1" CAL	B&B	
	2	7	<i>Quercus alba</i>	White Oak	1" CAL	B&B	
	1	8	<i>Quercus phellos</i>	Willow Oak	1" CAL	B&B	
	2	9	<i>Quercus palustris</i>	Pin Oak	1" CAL	B&B	
		18		TOTAL TREES			
#2 WRA-B area AC 0.01	1	2	<i>Carpinus caroliniana</i>	Musclewood	1" CAL	B&B	PROVIDE A RANDOM PATTERN WITH A MINIMUM SPACING BETWEEN TREES OF 8' O.C.
	1	5	<i>Diospyros virginiana</i>	Persimmon	1" CAL	B&B	
	2		TOTAL TREES				

THIS PROJECT WILL RESULT IN 0.1 ACRES OF FOREST CLEARING FROM THE CONSTRUCTION OF THE SPUR TRAIL. THIS CLEARING WILL BE MITIGATED WITH A 1:1 REPLACEMENT OF 0.1 ACRES OF AFFORESTATION AREAS. ALL PLANTING TO BE PROVIDED ON M-NCPPC PROPERTY. STOCKING RATE IS 200 STEMS PER ACRE, BASED ON FIGURE A:18 FROM THE MARYLAND STATE FOREST CONSERVATION TECHNICAL MANUAL.

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: [Signature] DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #3381
A. MORTON THOMAS & ASSOCIATES, INC.
800 KING FARM BOULEVARD, 4TH FLOOR
ROCKVILLE, MD 20852



Know what's below.
Call before you dig.

8/4/2023
MISS UTILITY

48 HOURS BEFORE YOU DIG
CALL "MISS UTILITY" AT 811
OR LOG ON TO www.missutility.net

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE PRINCE GEORGE'S COUNTY CODE.

THIS PLAN IS FOR TREE PROTECTION/
FOREST CONSERVATION PLAN PURPOSES ONLY

PRINCE GEORGE'S PLANNING DEPARTMENT, M-NCPPC
ENVIRONMENTAL PLANNING SECTION
TYPE 2 TREE CONSERVATION PLAN APPROVAL

TCP2- 042 - 2020

	APPROVED BY	DATE	DRD #	REASON FOR REVISION
00	<i>Ron Finch</i>	<i>3/4/2023</i>		N/A
01				
02				
03				
04				
05				
06				

TYPE 2 TREE CONSERVATION PLAN

TCP1.1

CONSULTANTS

GILMORE LIGHTING DESIGN
CITROBLOE LIGHTING DESIGN

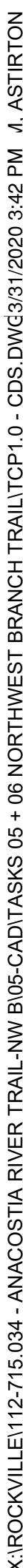
12/05/2022






























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. 32561, EXPIRATION DATE 01/06/24



NORTHWEST BRANCH
TRAIL LIGHTING STUDY
MERRIMAC DRIVE TO LYNDON
STREET
ADELPHI, MD 20783

NOT FOR
CONSTRUCTION
DECEMBER 2022



	MAJOR CONTOUR
	MINOR CONTOUR
	WATER BODY
	FEMA FLOODPLAIN
	PROPERTY LINE
	EXISTING WOODLAND (WPA)
	EXISTING SIDEWALK OR TRAIL
	EXISTING PAVING
	EXISTING BRIDGE
	EXISTING BUILDING
	WETLAND (FROM GIS)
	WETLAND BUFFER
	STORM MANHOLE
	POST
	SINGLE POST SIGN
	LIGHT POLE
	AIR CONDITIONER UNIT
	SANITARY SEWER MANHOLE
	WATER VALVE
	WATER METER
	BOLLARD
	TRAVERSE
	BENCHMARK
	CURB AND GUTTER
	WATERLINE PAINT MARK
	OVERHEAD ELECTRIC LINE
	GAS LINE PAINT MARK
	CHAIN LINK FENCE
	DATA ACCORDING TO RECORD

LEGEND

	BUILDING
	TREE STAND
	WOODLAND TO BE REMOVED (C-FP)
	TEMPORARY TREE PROTECTION FENCE
	TRUNK PROTECTION
	TEMPORARY TREE PROTECTION SIGNAGE
	SPECIMEN TREE AND CRITICAL ROOT ZONE
	PMA
	STUDY AREA
	SR

CL ———— STREAM CENTERLINE

● ———— PERMANENT TREE PROTECTION FENCE AND SIGNAGE

● AFFORESTATION/REFORESTATION SIGNAGE

▤ REFORESTATION AREA

WOODLAND CONSERVATION SUMMARY TABLE

SHEET	GROSS PROJECT AREA	100-YEAR FLOODPLAIN (FP)	NET TRACT AREA (NTA)	EXISTING WOODLAND (NTA)	EXISTING WOODLAND (FP)	WOODLAND CLEARED (C-NTA)	WOODLAND CLEARED (C-FP)	WOODLAND PRESERVED (WPA)	WOODLAND REFORESTED (WRA)	WOODLAND RETAINED/NOT CREDITED (WR-NC)	WOODLAND RETAINED/ASSUMED CLEARED (WR-AC)
TCP1.3	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
TOTAL	0.35	0.35	0.00	0	0	0.00	0.00	0.00	0.00	-	-

NOTE:
GENERALLY, ROOT PRUNING AND TREE PROTECTION FENCE ARE LOCATED AT THE LIMIT OF DISTURBANCE. THEREFORE, THE LAYOUT OF LINES DEPICTING TREE PROTECTION FENCE AND ROOT PRUNING IS DIAGRAMMATIC, AND FOR REFERENCE ONLY. PLEASE REFER TO THE STRESS REDUCTION DETAIL FOR MORE INFORMATION.

PROPERTY OWNERS AWARENESS CERTIFICATE

I/WE, MARYLAND NATIONAL CAPITAL PARKS AND PLANNING COMMISSION OF PRINCE GEORGE'S COUNTY, HEREBY ACKNOWLEDGE THAT WE ARE AWARE OF THIS TYPE 2 TREE CONSERVATION PLAN (TCP2) AND THAT WE UNDERSTAND THE REQUIREMENTS AS SET FORTH IN THIS TCP2.

OWNER OR OWNERS REPRESENTATIVE Manager DATE 04/25/2023



MISS UTILITY

48 HOURS BEFORE YOU DIG
CALL "MISS UTILITY" AT 811
OR LOG ON TO www.missutility.net

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE PRINCE GEORGE'S COUNTY CODE.

THIS PLAN IS FOR TREE PROTECTION/
FOREST CONSERVATION PLAN PURPOSES ONLY

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED:  DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #3381
A. MORTON THOMAS & ASSOCIATES, INC.
800 KING FARM BOULEVARD, 4TH FLOOR
ROCKVILLE, MD 20852

PRINCE GEORGE'S PLANNING DEPARTMENT, M-NCPPC
ENVIRONMENTAL PLANNING SECTION
TYPE 2 TREE CONSERVATION PLAN APPROVAL

TCP2- 042 - 2020

	APPROVED BY	DATE	DRD #	REASON FOR REVISION
00	<i>Kim Finch</i>	<i>8/4/2023</i>		N/A
01				
02				
03				
04				
05				
06				

TYPE 2 TREE CONSERVATION PLAN

TCP1.3

SHEET 05 OF

1. ALL WOODLANDS DESIGNATED ON THIS PLAN FOR PRESERVATION ARE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE WOODLAND AREAS SHALL REMAIN IN A NATURAL STATE. THIS INCLUDES THE CANOPY TREES AND UNDERSTORY VEGETATION. A REVISED TREE CONSERVATION PLAN IS REQUIRED PRIOR TO CLEARING WOODLAND AREAS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE CLEARED ON THE APPROVED TCP2.
2. TREE AND WOODLAND CONSERVATION METHODS SUCH AS ROOT PRUNING SHALL BE CONDUCTED AS NOTED ON THIS PLAN.
3. THE LOCATION OF ALL TEMPORARY TREE PROTECTION FENCING (TPFs) SHOWN ON THIS PLAN SHALL BE FLAGGED OR STAKED IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING. UPON APPROVAL OF THE LOCATIONS BY THE COUNTY INSPECTOR, INSTALLATION OF THE TPFs MAY BEGIN.
4. ALL TEMPORARY TREE PROTECTION FENCING REQUIRED BY THIS PLAN SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE BOND IS RELEASED FOR THIS PROJECT. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE DEVICES IS A VIOLATION OF THIS TCP2.
5. WOODLAND PRESERVATION AREAS SHALL BE POSTED WITH SIGNAGE AS SHOWN ON THE PLANS AT THE SAME TIME AS THE TEMPORARY TPF INSTALLATION. THESE SIGNS MUST REMAIN IN PERPETUITY.

6. THE DEVELOPER AND/OR BUILDER IS RESPONSIBLE FOR THE COMPLETE PRESERVATION OF ALL FORESTED AREAS SHOWN ON THE APPROVED PLAN TO REMAIN UNDISTURBED. ONLY TREES OR PARTS THEREOF DESIGNATED BY THE COUNTY AS DEAD, DYING, OR HAZARDOUS MAY BE REMOVED.
7. A TREE IS CONSIDERED HAZARDOUS IF A CONDITION IS PRESENT WHICH LEADS A CERTIFIED ARBORIST OR LICENSED TREE EXPERT TO BELIEVE THAT THE TREE OR A PORTION OF THE TREE HAS A POTENTIAL TO FALL AND STRIKE A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.
8. DURING THE INITIAL STAGES OF CLEARING AND GRADING, IF HAZARDOUS TREES ARE PRESENT, OR TREES ARE PRESENT THAT ARE NOT HAZARDOUS BUT ARE LEANING INTO THE DISTURBED AREA, THE PERMITEE SHALL REMOVE SAID TREES USING A CHAINSAW. CORRECTIVE MEASURES REQUIRING THE REMOVAL OF THE HAZARDOUS TREE OR PORTIONS THEREOF SHALL REQUIRE AUTHORIZATION BY THE COUNTY INSPECTOR. ONLY AFTER APPROVAL BY THE INSPECTOR MAY THE TREE BE CUT BY CHAINSAW TO NEAR THE EXISTING GROUND LEVEL. THE STUMP SHALL NOT BE REMOVED OR COVERED WITH SOIL, MULCH OR OTHER MATERIALS THAT WOULD INHIBIT SPROUTING.
9. IF A TREE OR TREES BECOME HAZARDOUS PRIOR TO BOND RELEASE FOR THE PROJECT, DUE TO STORM EVENTS OR OTHER SITUATIONS NOT RESULTING FROM AN ACTION BY THE PERMITEE, PRIOR TO REMOVAL, A CERTIFIED ARBORIST OR A LICENSED TREE EXPERT MUST CERTIFY THAT THE TREE OR PORTION OF THE TREE IN QUESTION HAS A POTENTIAL TO FALL AND STRIKE A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. IF A TREE OR PORTIONS THEREOF ARE IN IMMEDIATE DANGER OF STRIKING A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

IF CORRECTIVE PRUNING MAY ALLEVIATE A HAZARDOUS CONDITION, THE CERTIFIED ARBORIST OR LICENSED TREE EXPERT MAY PROCEED WITHOUT FURTHER AUTHORIZATION. THE PRUNING MUST BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPROPRIATE ANSI A-300 PRUNING STANDARDS. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

DEBRIS FROM THE TREE REMOVAL OR PRUNING THAT OCCURS WITHIN 35 FEET OF THE WOODLAND EDGE SHALL BE REMOVED FROM THE PROJECT SITE BY RECYCLING, CHIPPING OR OTHER ACCEPTABLE METHODS. ALL DEBRIS THAT IS MORE THAN 35 FEET FROM THE WOODLAND EDGE SHALL BE CUT UP TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING DECOMPOSITION. THE SMALLER MATERIALS SHALL BE PLACED INTO BRUSH PILES THAT WILL SERVE AS WILDLIFE HABITAT.

TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS SHOWN WITHIN APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT.

1. ALL AFFORESTATION AND REFORESTATION BONDS, BASED ON SQUARE FOOTAGE, SHALL BE POSTED WITH THE COUNTY PRIOR TO THE ISSUANCE OF ANY PERMITS. THESE BONDS WILL BE RETAINED AS SURETY UNTIL ALL REQUIRED ACTIVITIES HAVE BEEN SATISFIED OR THE REQUIRED TIMEFRAME FOR MAINTENANCE HAS PASSED, WHICHEVER IS LONGER.
2. THE PLANTING OF AFFORESTATION OR REFORESTATION AREAS SHALL BE COMPLETED PRIOR TO ISSUANCE OF THE FIRST BUILDING PERMIT. SEEDLING PLANTING IS TO OCCUR FROM MARCH THROUGH NOVEMBER ONLY; NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING OF LARGER CALIPER STOCK OR CONTAINERED STOCK MAY BE DONE AT ANY TIME PROVIDED A DETAILED MAINTENANCE SCHEDULE IS PROVIDED.
3. IF PLANTING CANNOT OCCUR DUE TO PLANTING CONDITIONS, THE DEVELOPER OR PROPERTY OWNER SHALL INSTALL THE FENCING AND SIGNAGE IN ACCORDANCE WITH THE APPROVED TYPE 2 TREE CONSERVATION PLAN. PLANTING SHALL THEN BE ACCOMPLISHED DURING THE NEXT PLANTING SEASON. IF PLANTING IS DELAYED BEYOND THE TRANSFER OF THE PROPERTY TITLE TO THE HOMEOWNER, THE DEVELOPER OR BUILDER SHALL OBTAIN A SIGNED STATEMENT FROM THE PURCHASER INDICATING THAT THEY UNDERSTAND THAT THE REFORESTATION AREA IS LOCATED ON THEIR PROPERTY AND THAT REFORESTATION WILL OCCUR DURING THE NEXT PLANTING SEASON. A COPY OF THAT DOCUMENT SHALL BE PRESENTED TO THE GRADING INSPECTOR AND THE COUNTY.
4. REFORESTATION AREAS SHALL NOT BE MOWED; HOWEVER, THE MANAGEMENT OF COMPETING VEGETATION AROUND INDIVIDUAL TREES AND REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION WITHIN THE REFORESTATION AREAS IS ACCEPTABLE.
5. ALL REQUIRED TEMPORARY TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE PERMANENT TREE PROTECTION FENCING IS INSTALLED WITH THE REQUIRED PLANTING. THE TEMPORARY FENCING IS NOT REQUIRED TO BE INSTALLED IF THE PERMANENT FENCING IS INSTALLED PRIOR TO CLEARING AND GRADING OF THE SITE. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE FENCING IS A VIOLATION OF THIS TCP2.
6. AFFORESTATION / REFORESTATION AREAS SHALL BE POSTED WITH NOTIFICATION SIGNAGE, AS SHOWN ON THE PLANS, AT THE SAME TIME AS THE PERMANENT PROTECTION FENCING INSTALLATION. THESE SIGNS SHALL REMAIN IN PERPETUITY.
7. THE COUNTY INSPECTOR SHALL BE NOTIFIED PRIOR TO SOIL PREPARATION OR INITIATION OF ANY TREE PLANTING ON THIS SITE.
8. AT THE TIME OF ISSUANCE OF THE FIRST PERMIT, THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE M-NCPPC PLANNING DEPARTMENT REGARDING THE CONTRACTOR RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN: CONTRACTOR NAME; BUSINESS NAME (IF DIFFERENT); ADDRESS; AND PHONE NUMBER. RESULTS OF ANNUAL SURVIVAL CHECKS FOR EACH OF THE REQUIRED FOUR YEARS AFTER TREE PLANTING SHALL BE REPORTED TO THE M-NCPPC PLANNING DEPARTMENT.
9. FAILURE TO ESTABLISH THE AFFORESTATION OR REFORESTATION WITHIN THE PRESCRIBED TIME FRAME WILL RESULT IN FORFEITURE OF THE REFORESTATION BOND AND/OR A VIOLATION OF THIS PLAN INCLUDING THE ASSOCIATED \$9.00 PER SQUARE FOOT PENALTY UNLESS THE COUNTY INSPECTOR APPROVES A WRITTEN EXTENSION.

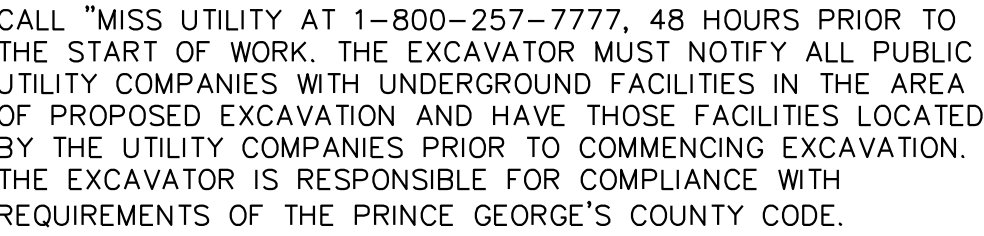
1. QUANTITY: (SEE PLANT SCHEDULE)
2. TYPE: (SEE PLANT SCHEDULE)
3. PLANT QUALITY STANDARDS: THE PLANTS SELECTED SHALL BE HEALTHY AND STURDY REPRESENTATIVES OF THEIR SPECIES. SEEDLINGS SHALL HAVE A MINIMUM TOP GROWTH OF 18". THE DIAMETER OF THE ROOT COLLAR (THE PART OF THE ROOT JUST BELOW GROUND) SHALL BE AT LEAST 3/8". THE ROOTS SHALL BE WELL DEVELOPED AND AT LEAST 8" LONG. NO MORE THAN TWENTY-FIVE PERCENT (25%) OF THE ROOT SYSTEM (BOTH PRIMARY AND AUXILIARY / FIBROUS ROOTS) SHALL BE PRESENT.
PLANTS THAT DO NOT HAVE AN ABUNDANCE OF WELL DEVELOPED TERMINAL BUDS ON THE LEADERS AND BRANCHES SHALL BE REJECTED.
PLANTS SHALL BE SHIPMENT TO THE NURSERY IMMEDIATELY AFTER LIFTING FROM THE FIELD OR REMOVAL FROM THE GREENHOUSE, AND PLANTED IMMEDIATELY UPON RECEIPT BY THE LANDSCAPE CONTRACTOR.
IF THE PLANTS CANNOT BE PLANTED IMMEDIATELY AFTER DELIVERY TO THE REFORESTATION SITE, THEY SHALL BE STORED IN THE SHADE WITH THEIR ROOT MASSES PROTECTED FROM DIRECT EXPOSURE TO SUN AND WIND BY THE USE OF STRAW, PEAT MOSS, COMPOST, OR OTHER SUITABLE MATERIAL AND SHALL BE MAINTAINED THROUGH PERIODIC WATERING, UNTIL THE TIME OF PLANTING.
4. PLANT HANDLING: THE QUANTITY OF THE SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY OR TEMPORARY STORAGE AREA SHALL BE PLANTED IMMEDIATELY.
5. TIMING OF PLANTING: THE BEST TIME TO PLANT SEEDLINGS IS WHILE THEY ARE DORMANT, PRIOR TO SPRING BUDDING, THE MOST SUITABLE MONTHS FOR PLANTING ARE MARCH AND APRIL, WHEN SOIL IS MOIST, BUT MAY BE PLANTED FROM MARCH THROUGH NOVEMBER. NO PLANTING SHALL BE DONE WHILE THE GROUND IS FROZEN. PLANTING SHALL OCCUR WITHIN ONE GROWING SEASON OF THE ISSUANCE OF GRADING / BUILDING PERMITS AND/OR REACHING THE FINAL GRADES AND STABILIZATION OF PLANTING AREAS.
6. SEEDLING PLANTING: TREE SEEDLINGS SHALL BE HAND PLANTED USING A DOUBLE BAR OR SHARP-SHOOTER SHOVEL. IT IS IMPORTANT THAT THE SEEDLINGS BE PLACED IN THE HOLE SO THAT THE ROOTS CAN SPREAD OUT NATURALLY; THEY SHOULD NOT BE TWISTED, BALLED UP OR BENT. MOIST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHOULD BE PLANTED AT A DEPTH WHERE THEIR ROOTS LIE JUST BELOW THE GROUND SURFACE. AIR POCKETS SHOULD NOT BE LEFT AFTER CLOSING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. SEE PLANTING DETAILS FOR FURTHER EXPLANATION. IF THE CONTRACTOR WISHES TO PLANT BY ANOTHER METHOD, THE PREPARER OF THIS TREE CONSERVATION PLAN MUST BE CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.
7. SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING THEORY.
8. SOIL: UPON THE COMPLETION OF ALL GRADING OPERATIONS, A SOIL TEST SHALL BE CONDUCTED TO DETERMINE WHAT SOIL PREPARATION AND SOIL AMENDMENTS, IF ANY, ARE NECESSARY TO CREATE GOOD TREE GROWING CONDITIONS. SOIL SAMPLES SHALL BE TAKEN AT A RATE THAT PROVIDES ONE SOIL SAMPLE FOR EACH AREA THAT APPEARS TO HAVE A DIFFERENT SOIL TYPE (IF THE ENTIRE AREA APPEARS UNIFORM, THEN ONLY ONE SAMPLE IS NECESSARY, AND SUBMITTED FOR TESTING TO A PRIVATE COMPANY). THE COMPANY OF CHOICE SHALL MAKE RECOMMENDATIONS FOR IMPROVING THE EXISTING SOIL. THE SOIL WILL BE TESTED AND RECOMMENDED FOR CORRECTIONS OF SOIL TEXTURE, pH, MAGNESIUM, PHOSPHORUS, POTASSIUM, CALCIUM AND ORGANIC MATTER.
9. SOIL IMPROVEMENT MEASURES: THE SOIL SHALL THEN BE IMPROVED ACCORDING TO THE RECOMMENDATIONS MADE BY THE TESTING COMPANY.
10. FENCING AND SIGNAGE: FINAL PROTECTIVE FENCING SHALL BE PLACED ON THE VISIBLE AND/OR DEVELOPMENT SIDE OF PLANTING AREAS. THE FINAL PROTECTIVE FENCE SHALL BE INSTALLED UPON COMPLETION OF PLANTING OPERATIONS UNLESS IT WAS INSTALLED DURING THE INITIAL STAGES OF DEVELOPMENT. SIGNS SHALL BE POSTED PER THE SIGNAGE DETAIL ON THIS SHEET.
11. PLANTING METHOD: CONSULT THE PLANTING DETAIL(S) SHOWN ON THIS PLAN
12. MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHREDDED HARDWOOD MULCH (AS NOTED) TO EACH PLANTING SITE (SEE DETAIL SHOWN ON THIS PLAN).
13. GROUND COVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLINGS PLANTING SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.
14. MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.
15. SURVIVAL CHECK FOR BOND RELEASE: THE SEEDLING PLANTING IS TO BE CHECKED AT THE END OF EACH YEAR FOR FOUR YEARS TO ASSURE THAT NO LESS THAN 75% OF THE ORIGINAL PLANTED QUANTITY SURVIVES. IF THE MINIMUM NUMBER HAS NOT BEEN PROVIDED THE AREA MUST BE SUPPLEMENTED WITH ADDITIONAL SEEDLINGS TO REACH THE REQUIRED NUMBER AT TIME OF PLANTING.
16. SOURCE OF SEEDLINGS: TBD. PLANTING STOCK SEED SOURCE SHALL BE FROM WITHIN THE GEOGRAPHIC REGION SUITED FOR GROWTH IN PRINCE GEORGE'S COUNTY, MARYLAND.
17. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF SOIL CONTAMINATED WITH OIL PRODUCTS, SOLUBLE SALTS, FERROUS IRON, SOLUBLE ALUMINUM, SOLUBLE MANGANESE, OR HERBICIDE.

1. IF THE DEVELOPER OR BUILDER NO LONGER HAS AN INTEREST IN THE PROPERTY AND THE NEW OWNER DESIRES TO REMOVE A HAZARDOUS TREE OR PORTION THEREOF, THE NEW OWNER SHALL OBTAIN A WRITTEN STATEMENT FROM A CERTIFIED ARBORIST OR LICENSED TREE EXPERT IDENTIFYING THE HAZARDOUS CONDITION AND THE PROPOSED CORRECTIVE MEASURES PRIOR TO HAVING THE WORK CONDUCTED. AFTER PROPER DOCUMENTATION HAS BEEN COMPLETED PER THE HANDOUT "GUIDANCE FOR PRINCE GEORGE'S COUNTY PROPERTY OWNERS, PRESERVATION OF WOODLAND CONSERVATION AREAS", THE ARBORIST OR TREE EXPERT MAY THEN REMOVE THE TREE. THE STUMP SHALL BE CUT AS CLOSE TO THE GROUND AS POSSIBLE AND LEFT IN PLACE. THE REMOVAL OR GRINDING OF THE STUMPS IN WOODLAND CONSERVATION AREAS IS NOT PERMITTED.

IF A TREE OR PORTIONS THEREOF ARE IN IMMINENT DANGER OF STRIKING A STRUCTURE, PARKING AREA OR OTHER USE ADJACENT AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITTEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS SHOWN WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT.
2. THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE PLANT SPECIES FROM ANY WOODLAND PRESERVATION AREA SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY (PRUNERS OR A CHAINSAW). THESE PLANTS MAY BE CUT NEAR THE GROUND AND MATERIAL LESS THAN TWO INCHES DIAMETER MAY BE REMOVED FROM THE AREA AND DISPOSED OF APPROPRIATELY. ALL MATERIAL FROM THESE NOXIOUS, INVASIVE, AND NON-NATIVE PLANTS GREATER THAN TWO (2) INCHES DIAMETER SHALL BE CUT TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING DECOMPOSITION.
3. THE USE OF BROADCAST SPRAYING OF HERBICIDES IS NOT PERMITTED. HOWEVER, THE USE OF HERBICIDES TO DISCOURAGE RE-SPROUTING OF INVASIVE, NOXIOUS, OR NON-NATIVE PLANTS IS PERMITTED IF DONE AS AN APPLICATION OF THE CHEMICAL DIRECTLY TO THE CUT STUMP IMMEDIATELY FOLLOWING CUTTING OF PLANT TOPS. THE USE OF HERBICIDE SHALL BE DONE IN ACCORDANCE WITH THE LABEL INSTRUCTIONS.
4. THE USE OF CHAINSAWS IS EXTREMELY DANGEROUS AND SHOULD NOT BE CONDUCTED WITH POORLY MAINTAINED EQUIPMENT, WITHOUT SAFETY EQUIPMENT, OR BY INDIVIDUALS NOT TRAINED IN THE USE OF THIS EQUIPMENT FOR THE PRUNING AND/OR CUTTING OF TREES.

- CALL MISS UTILITY AT 811 OR 1-800-257-7777 TO MARK UTILITIES AT LEAST 48 HOURS BEFORE DIGGING.
2. ALL MATERIALS AND PLANTING PROCEDURES EXCEPT AS OTHERWISE NOTED SHALL CONFORM TO THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" BY THE LANDSCAPE CONTRACTORS ASSOCIATION MD-DC-VA.
3. PLANTS SHALL CONFORM TO THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, (ANSI Z60.1)
4. PLANT NAMES SHALL BE THOSE GIVEN IN THE LATEST EDITION OF STANDARD PLANT NAMES, AMERICAN COMMITTEE ON HORTICULTURAL NOMENCLATURE.
5. TOPSOIL SHALL MEET SPECIFICATIONS AS PER THE 1994 MD STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL.
6. THE CONTRACTOR SHALL STAKE OUT ALL PLANTING BEDS AND TREE LOCATIONS AND THESE MUST BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND COORDINATE PLANTINGS WITH ALL EXISTING UTILITIES. IF DISCREPANCIES OCCUR BECAUSE OF UTILITY LOCATIONS OR OTHER EXISTING CONDITIONS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY TO COORDINATE ANY NECESSARY ADJUSTMENTS.
7. ALL PLANT MATERIAL SHALL BE LABELED BY THE NURSERY AND DELIVERED WITH LABELS IN PLACE FOR INSPECTION. SUBSTITUTIONS IN PLANT SPECIES OR SIZE WILL NOT BE PERMITTED EXCEPT WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT. PRUNING IS NOT TO OCCUR UNTIL MATERIAL HAS BEEN PLANTED. CONTRACTOR SHALL PRUNE PLANT MATERIAL AS SOON THEREAFTER AS IS ADVISABLE UNDER STANDARD HORTICULTURAL PRACTICES.
8. IT IS OF UTMOST IMPORTANCE THAT ALL PLANT MATERIAL BE SET SLIGHTLY HIGHER IN RELATION TO GRADE THAN IT WAS GROWN IN THE NURSERY AND WITH GOOD EARTH TO ROOT CONTACT. ANY MATERIALS OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT IF IT DOES NOT MEET THIS OR ANY OTHER REQUIREMENT OF THE SPECIFICATIONS, AND REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL MULCH AND WATER ALL PLANTS WELL ON THE DAY THEY ARE PLANTED. THE SURFACE MULCH LAYER SHALL CONSIST OF STANDARD FINE SHREDDED AGED HARDWOOD MULCH. THE CONTRACTOR SHALL APPLY THE MULCH UNIFORMLY TO A 2 TO 3 INCH DEPTH. BARK SHALL BE KEPT 3 TO 4 INCHES AWAY FROM ALL TRUNKS AND WOODY STEMS.
10. IN CASE OF DISCREPANCIES BETWEEN QUANTITIES ON THE PLANT LIST AND THE PLAN, THE PLAN SHALL GOVERN.
11. ANY PLANTING WITHIN A FOREST RETENTION AREA, AS DESIGNATED ON THE FOREST CONSERVATION PLAN AND SHOWN ON THIS PLAN, MUST BE DONE TO AVOID ANY ADVERSE IMPACT TO THE ROOTS OF EXISTING TREES. THE CONTRACTORS PERFORMING WORK ON THE SITE ARE RESPONSIBLE FOR PROTECTING EXISTING NATIVE AND NON-INVASIVE PLANTINGS DURING CONSTRUCTION.
12. REFORESTATION/AFFORESTATION STOCKING RATE SHALL BE 300 - 1" CAL. TREES/AC AND 100 - 3 GAL. SHRUBS/AC.
13. SURVIVAL RATE OF REFORESTATION/AFFORESTATION PLANTING SHALL BE 85% AT THE END OF THE SECOND GROWING SEASON



I/WE, MARYLAND NATIONAL CAPITAL PARKS AND PLANNING COMMISSION OF PRINCE GEORGE'S COUNTY, HEREBY ACKNOWLEDGE THAT WE ARE AWARE OF THIS TYPE 2 TREE CONSERVATION PLAN (TCP2) AND THAT WE UNDERSTAND THE REQUIREMENTS AS SET FORTH IN THIS TCP2.

OWNER OR OWNERS REPRESENTATIVE Robert R. Roth DATE 04/25/2023

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED:  DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #3381
A. MORTON THOMAS & ASSOCIATES, INC. PH: 301-881-2545
800 KING FARM BOULEVARD, 4TH FLOOR EMAIL: astreagle@amtengineering.com
ROCKVILLE, MD 20852

FOREST PROTECTION DEVICE ONLY
SET TREE RETENTION AREA AS PART OF THE PRE-CONSTRUCTION
REVIEW PROCESS
STAKE & FLAG THE BOUNDARIES OF RETENTION AREA PRIOR TO
INSTALLATION OF DEVICE
DO NOT INDUCE TO ROOT WHEN PLACING POSTS FOR THE SIGNS.
PROTECTIVE SIGNAGE IS REQUIRED
MAINTAIN THE DEVICE THROUGHOUT CONSTRUCTION.
ALTERNATIVE TREE PROTECTION DEVICES (IN LIEU OF WIRE MESH):
SUPER SILT FENCE (SSF) OR 3 STRANDS OF SMOOTH 12 GAUGE WIRE.
ATTACH HIGHLY VISIBLE FLAGGING TO WIRES @ 12" O.C.

ATTACH THE SIGN TO POST WITH HEAVY-DUTY ZIPTIES
TYP. 3 PLACES

1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.

1. COMPLETE ALL INSTALLATION UNDER THE DIRECTION OF A CERTIFIED ARBORIST
2. TIE BOARDS WITH WITH 1/2" DIAMETER ROPE OR STAPS SUFFICIENT TO PROTECT ALL AREAS OF THE TREE EXPOSED TO CONSTRUCTION.
3. PROTECT THE TRUNK FROM DAMAGE DUE TO THE STRAPS WITH ADDITIONAL FOAM AND BOARDS AS NEEDED

SILMORE LIGHTING DESIGN
NETWORK LIGHTING DESIGN

12/05/2022

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. 32561, EXPIRATION DATE 01/06/24



**NORTHWEST BRANCH
TRAIL LIGHTING STUDY
MERRIMAC DRIVE TO LYNDON
STREET
ADELPHI, MD 20783**

NOT FOR
CONSTRUCTION
DECEMBER 2022

MARK	DATE	DESCRIPTION

PROJECT NO: 112-715.034

SCALE: AS SHOWN

DESIGNED BY: AMT

DRAWN BY: AMT

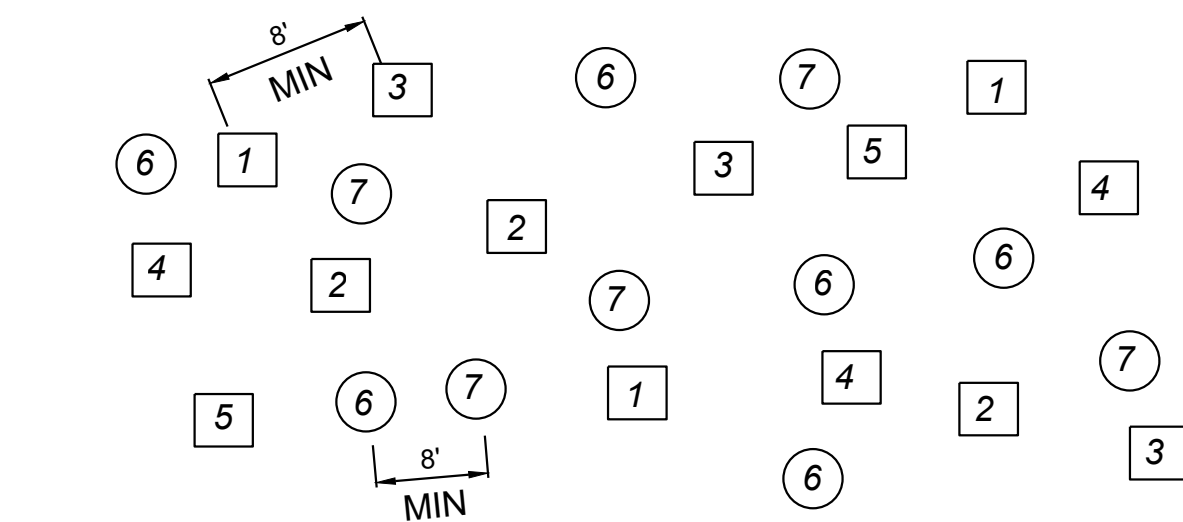
CHECKED BY: AMT

SHEET TITLE

TREE CONSERVATION NOTES AND DETAILS

TCP5.0

X:\ROCKVILLE\112-715-034 - ANACOSTIA RIVER TRAIL\NW B105-CAD\TASKS 05 + 06 NORTHWEST BRANCH TRAIL\TCP1.0 - CDS.DWG\3/31/2020 3:42 PM - J. ASTIRTON



NOTES:
1. PLANT TREES IN RANDOM PATTERN. 8' MINIMUM SPACING BETWEEN TREES. 8' MINIMUM SPACING BETWEEN SHRUBS.
2. SEE PLANT SCHEDULE FOR SPECIES REQUIREMENTS.

1 TYPICAL RESTORATION PLANTING LAYOUT

NOT TO SCALE

329303-01

TASKS	MONTHS											
	Jan+	Feb+	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov+	Dec+
TRANSPLANT OF 2" DBH OR GREATER												
PLANTING - ALL OTHER MATERIAL, SEEDLINGS, WHIPS, SHRUBS, HERBACEOUS												
MINIMUM MONITORING			*					*			*	
FERTILIZER (IF NEEDED) +												
WATER ++												
PRUNING												

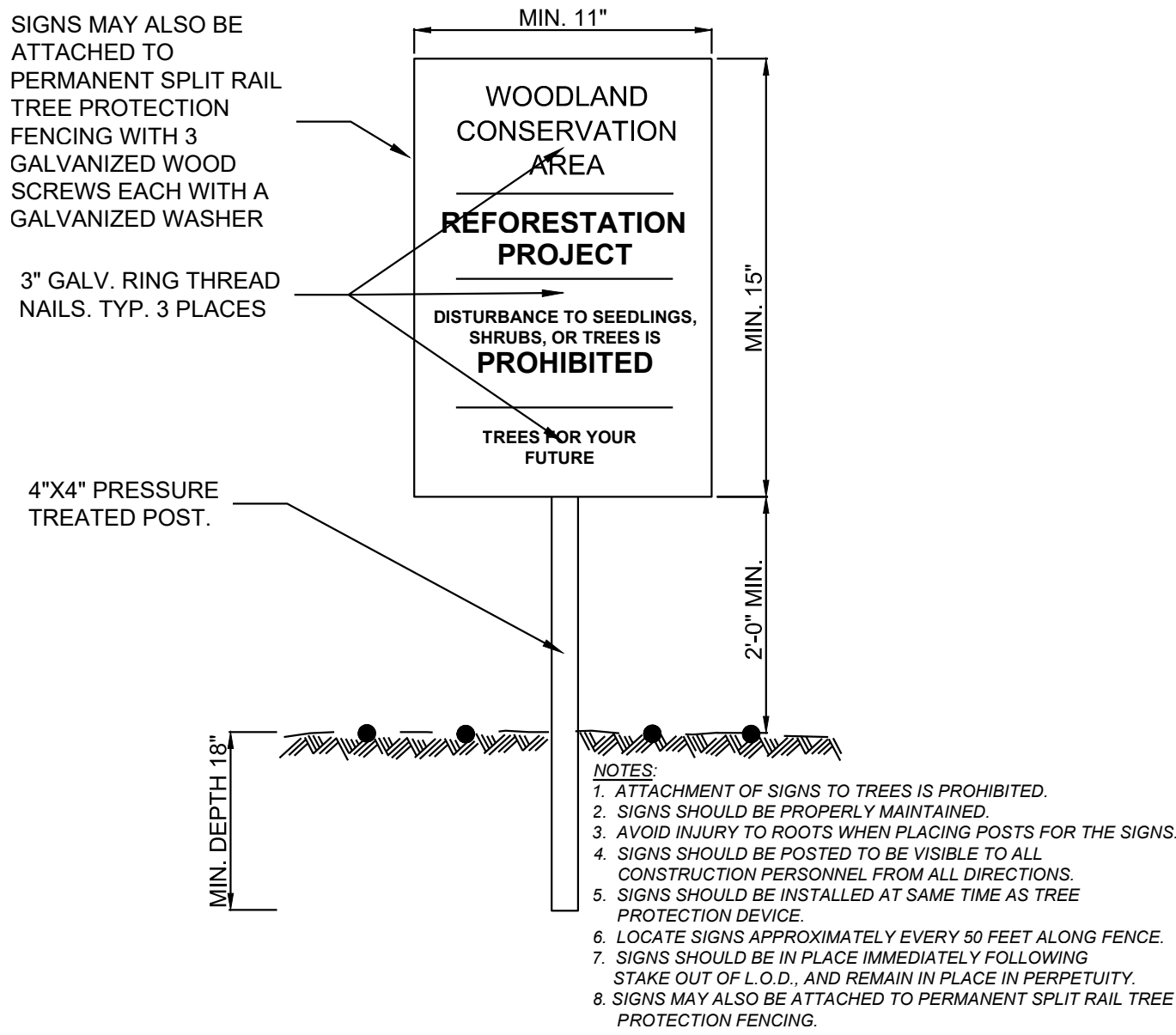
RECOMMENDED, OPTIMAL TIME
RECOMMENDED, WITH ADDITIONAL CARE
RECOMMENDED
+ DEPENDENT UPON SITE CONDITIONS
++ DEPENDENT UPON SITE CONDITIONS; WEEKLY WATERING IS STRONGLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

NOTES:
1. ACTIVITIES DURING NOVEMBER THROUGH FEBRUARY DEPEND ON GROUND CONDITIONS.
2. NO FALL PLANTING OF FALL DUG OAKS AND PINES.
3. THE PLANTING AND CARE OF TREES IS MOST SUCCESSFUL WHEN COORDINATED WITH THE LOCAL CONDITIONS. THIS CALENDAR SUMMARIZES SOME OF THE RECOMMENDED TIME FRAMES FOR BASIC REFORESTATION AND STRESS REDUCTION MEASURES.

2 PLANTING AND MAINTENACE CALENDAR

NTS

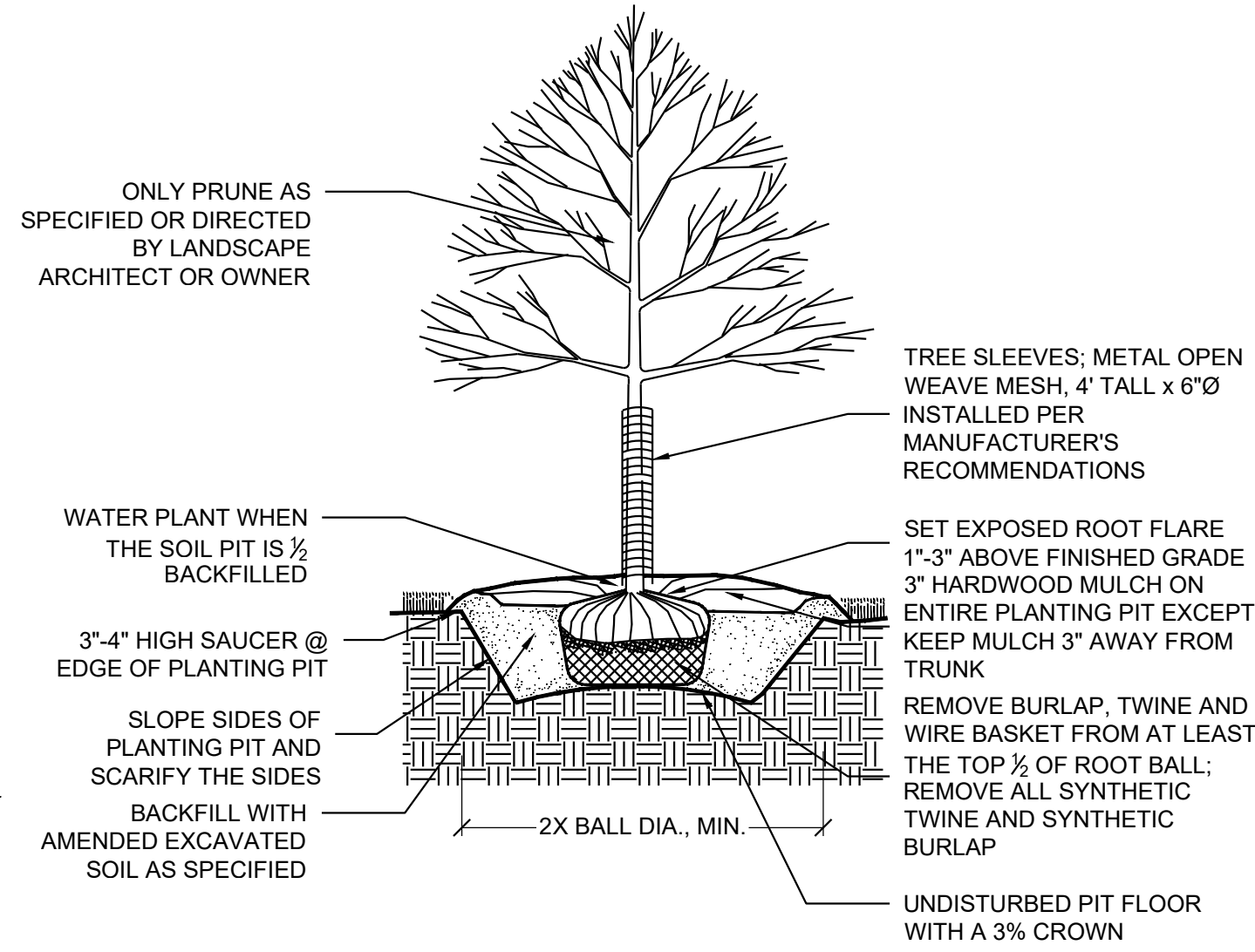
329303-03



3 REFORESTATION AREA SIGNAGE

NTS

329303-08



4 DECIDUOUS TREE PLANTING

NOT TO SCALE

329343-35

AMT

A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
700 KING FARM BOULEVARD, 3RD FLOOR
ROCKVILLE, MD 20850
PHONE (301) 881-2545 | FAX (301) 881-0814
EMAIL: AMT1@AMTENGINEERING.COM

CONSULTANTS

GILMORE LIGHTING DESIGN
GILMORE LIGHTING DESIGN

12/05/2022

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. 32561, EXPIRATION DATE 01/06/24



**NORTHWEST BRANCH
TRAIL LIGHTING STUDY**
MERRIMAC DRIVE TO LYNDON
STREET
ADELPHI, MD 20783

**NOT FOR
CONSTRUCTION
DECEMBER 2022**



MISS UTILITY
48 HOURS BEFORE YOU DIG
CALL "MISS UTILITY" AT 811
OR LOG ON TO www.missutility.net

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF THE PRINCE GEORGE'S COUNTY CODE.

PROPERTY OWNERS AWARENESS CERTIFICATE

I/WE, MARYLAND NATIONAL CAPITAL PARKS AND PLANNING COMMISSION OF PRINCE GEORGE'S COUNTY, HEREBY ACKNOWLEDGE THAT WE ARE AWARE OF THIS TYPE 2 TREE CONSERVATION PLAN (TCP2) AND THAT WE UNDERSTAND THE REQUIREMENTS AS SET FORTH IN THIS TCP2.

[Signature]
OWNER OR OWNERS REPRESENTATIVE

[Signature]
DATE 04/25/2023

QUALIFIED PROFESSIONAL CERTIFICATION

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS OF PRINCE GEORGE'S COUNTY CODE AND THE ENVIRONMENTAL TECHNICAL MANUAL.

SIGNED: *[Signature]* DATED: 04/25/2023

ANDREW E. STREAGLE - MD RLA #3381
A. MORTON THOMAS & ASSOCIATES, INC.
800 KING FARM BOULEVARD, 4TH FLOOR
ROCKVILLE, MD 20852
EMAIL: astreagle@amtengineering.com

PRINCE GEORGE'S PLANNING DEPARTMENT, M-NCPPC ENVIRONMENTAL PLANNING SECTION TYPE 2 TREE CONSERVATION PLAN APPROVAL				
TCP2- 042 - 2020				
APPROVED BY	DATE	ORD #	REASON FOR REVISION	
00 <i>Kim Finch</i>	8/4/2023		NA	
01				
02				
03				
04				
05				
06				

**TREE CONSERVATION
NOTES AND DETAILS**

TCP5.1

SHEET 07 OF 7