

PRINCE GEORGE'S COUNTY MARYLAND

1801 MCCORMICK DRIVE, SUITE 500
LARGO, MARYLAND 20744

TRIBUTARY 3 TO HENSON CREEK STREAM RESTORATION PROJECT

MORNINGSIDE, MARYLAND 20746

GENERAL NOTES

- THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR PLAN TCP2-007-2019.
- CUTTING OF CLEARING OF WOODLAND NOT IN DIRECT CONFORMANCE WITH THIS PLAN OR WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE PLANNING DIRECTOR OR DESIGNEE SHALL BE SUBJECT TO A \$9.00 PER SQUARE FOOT MITIGATION FEE.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE ISSUANCE OF GRADING PERMITS. THE DEPARTMENT OF PUBLIC WORKS, AND TRANSPORTATION OR THE DEPARTMENT OF THE ENVIRONMENT, AS APPROPRIATE, SHALL BE CONTACTED PRIOR TO THE START OF ANY WORK ON THE SITE TO CONDUCT A PRE-CONSTRUCTION MEETING WHERE IMPLEMENTATION OF WOODLAND CONSERVATION MEASURES SHOWN ON THIS PLAN WILL BE DISCUSSED IN DETAIL.
- PRIOR TO THE COMMENCEMENT OF CLEARING, ORANGE CONSTRUCTION FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMITS OF DISTURBANCE AND TREE PROTECTION PLANKING SHALL BE INSTALLED AS DESIGNATED ON THE PLAN. ROOT PRUNING WILL TAKE PLACE AS DISCUSSED DURING THE PRE-CONSTRUCTION MEETING.
- THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION PLAN SHALL NOTIFY FUTURE BUYERS OF ANY WOODLAND CONSERVATION AREAS THROUGH THE PROVISION OF A COPY OF THIS PLAN AT TIME OF CONTRACT SIGNING. FUTURE PROPERTY OWNERS ARE ALSO SUBJECT TO THIS REQUIREMENT.
- THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION PLAN ARE SOLELY RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN.
- THIS PROPERTY IS WITHIN THE DEVELOPED TIER AND IS ZONED "INDUSTRIAL" (I-4) AND "RESIDENTIAL" (R-80).
- THE SITE IS ADJACENT TO SUTLAND PARKWAY IS DESIGNATED AS AN HISTORIC ROADWAY ON THE NATIONAL REGISTER OF HISTORIC PLACES AND THE MARYLAND INVENTORY OF HISTORIC PROPERTIES. THE PROJECT WILL NOT CROSS ONTO THE PROPERTY DESIGNATED AS SUTLAND PARKWAY AND WILL NOT IMPACT THE ROADWAY.
- THIS PROPERTY IS ADJACENT TO SUTLAND PARKWAY WHICH IS CLASSIFIED AS A FREEWAY (ROAD TYPE F) ROADWAY. THE PROJECT WILL NOT CROSS ONTO THE PROPERTY DESIGNATED AS SUTLAND PARKWAY AND WILL NOT IMPACT THE ROADWAY
- THIS PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-117 (G).
- ALL REQUIRED FEE-IN-LIEU PAYMENTS SHALL BE MADE TO THE WOODLAND CONSERVATION FUND. PROOF OF DEPOSIT SHALL BE PROVIDED PRIOR TO ISSUANCE OF ANY PERMITS RELATED TO THIS TCP2 UNLESS THE PROJECT IS PHASED. PHASED PROJECTS SHALL PAY THE FEE-IN-LIEU AMOUNT FOR EACH PHASE PRIOR TO THE ISSUANCE OF ANY PERMIT FOR THAT PHASE AND SHOWN IN THE FEE-IN-LIEU BREAKDOWN ON THIS TCP2.
- INVASIVE PLANT REMOVAL SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION AND CONFORM TO THE RECOMMENDATIONS OF THE LANDSCAPE PLAN PREPARED BY CENTURY ENGINEERING INC. DATED 12/18/2018.
- THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVES PLANT SPECIES SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY SUCH AS PRUNERS OR A CHAIN SAW. THESE PLANTS MAY BE CUT NEAR THE GROUND AND THE 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.
- 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 THE CUTTING OF PLANT TOPS. THE USE OF ANY HERBICIDE SHALL BE DONE IN ACCORDANCE WITH THE LABEL INSTRUCTIONS AND BE APPLIED BY A CERTIFIED PESTICIDE APPLICATOR.

POST-DEVELOPMENT NOTES:

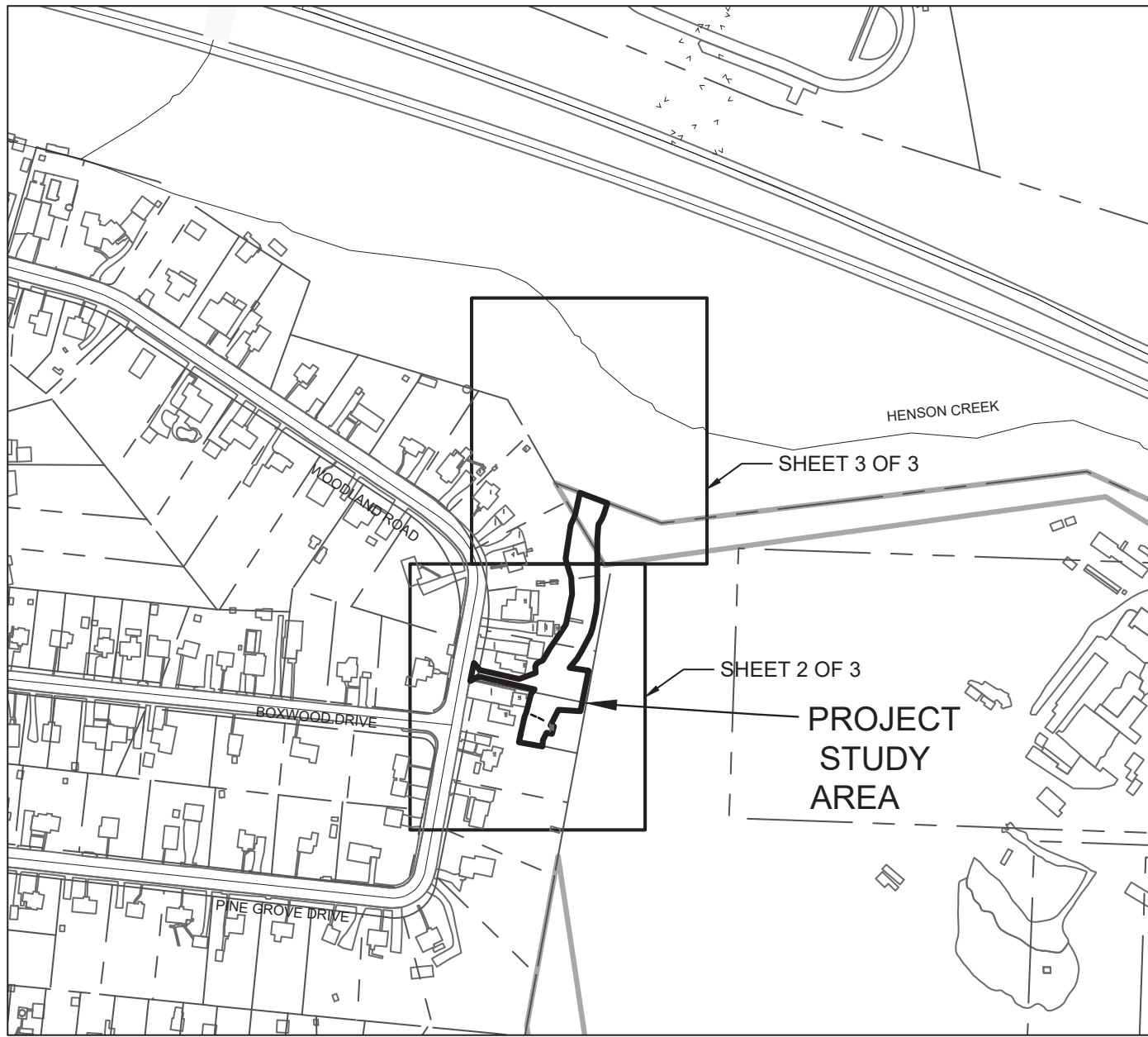
- IF THE DEVELOPER OR BUILDER NO LONGER HAS AN INTEREST IN THE PROPERTY AND THE NEW OWNER DESIRES TO REMOVE A HAZARDOUS TREE OR PORTION THEREOF, THE NEW OWNER SHALL OBTAIN A WRITTEN STATEMENT FROM A CERTIFIED ARBORIST OR LICENSED TREE EXPERT IDENTIFYING THE HAZARDOUS CONDITION AND THE PROPOSED CORRECTIVE 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 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 THE WOODLAND CONSERVATION AREA IS NOT PERMITTED.

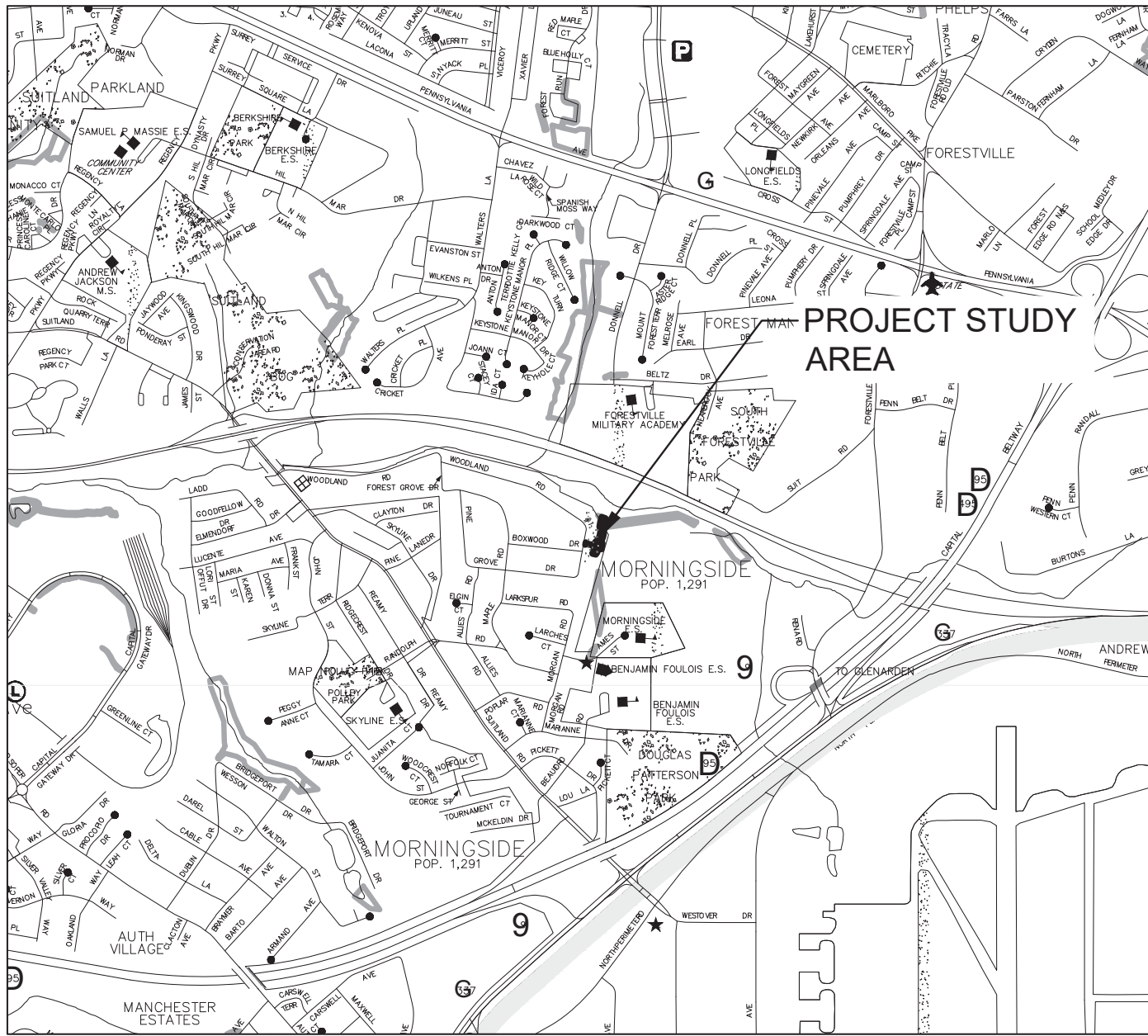
IF A TREE OR PORTIONS THEREOF ARE IN IMMINENT DANGER OF STRIKING A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE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

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 WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT.

- 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 CHAIN SAW). THESE PLANTS MAY BE CUT NEAR THE GROUND AND MATERIAL LESS THAN TWO INCHES IN 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.
- 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 ANY HERBICIDE SHALL BE DONE IN ACCORDANCE WITH THE LABEL INSTRUCTIONS.
- 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.



KEY MAP
1" = 300'



VICINITY MAP
1" = 2000'

TABLE 1: WOODLAND CONSERVATION SUMMARY TABLE

Sheet	Gross Tract Area	100-Year Flood Plain (FP)	Net Tract Area (NTA)	Ex. Woodland (NTA)	Ex. Woodland (FP)	Woodland Cleared Floodplain (C-FP)	Woodland Cleared Off-Site (C-OS)	Woodland Preserv. Area (WPA)	Woodland Reforest. Area (WRA)	Woodland Retained/ Not Credited (WR-NC)	Woodland Retained/ Assumed Cleared (WR-AC)
1	0.49	0.11	0.38	0.21	0.01	0.01	-	-	-	-	-
2	0.14	0.02	0.12	0.08	0.17	0.17	-	-	-	-	-
Total	0.63	0.13	0.5	0.29	0.18	0.18	-	-	-	-	-

TABLE 2: SPECIMEN TREES (≥ 30" DBH)

SPECIMEN #	SPECIES	DBH (INCHES)	CONDITION	DISPOSITION	NOTES
SP-1	White oak (<i>Quercus alba</i>)	32.7	Good	To Remain	
SP-2	Tuliptree (<i>Liriodendron tulipifera</i>)	34.9	Good	To Remain	
SP-3	Tuliptree (<i>Liriodendron tulipifera</i>)	33.8	Good	To Remain	
SP-4	Tuliptree (<i>Liriodendron tulipifera</i>)	33.4	Fair	To Be Removed	
SP-5	Tuliptree (<i>Liriodendron tulipifera</i>)	31	Fair	To Remain	
SP-6	Tuliptree (<i>Liriodendron tulipifera</i>)	32	Fair	To Remain	
SP-7	Tuliptree (<i>Liriodendron tulipifera</i>)	32	Fair	To Remain	
SP-8	Tuliptree (<i>Liriodendron tulipifera</i>)	48.3	Fair	To Remain	
SP-9	Tuliptree (<i>Liriodendron tulipifera</i>)	36	Fair	To Remain	
SP-10*	Tuliptree (<i>Liriodendron tulipifera</i>)	30	Good	To Remain	Tree Protection Fencing to be Provided
SP-11*	Tuliptree (<i>Liriodendron tulipifera</i>)	30	Good	To Remain	
SP-12*	Red maple (<i>Acer rubrum</i>)	36	Good	To Remain	

*Located on private property. DBH was estimated.

**All Specimen Trees are survey located

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE TCP2-007-2019 APPROVAL TCP2 - XXX - XXXX			
Approved by	Date	DRD #	Reason for Revision
00 <i>Chris Schuler</i>	6/27/2019		N/A
01			
02			
03			
04			
05			

PROPERTY OWNERS AWARENESS CERTIFICATE

I/We Kyle E. Scott 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.

Kyle E. Scott
Owner or Owner's Representative
5/8/2019
Date

I/We Sheila V. Scott 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.

SV Scott 6804
Owner or Owner's Representative
9 MAY 2019
Date

I/We Nelson O. Canaquez 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.

Nelson O. Canaquez
Owner or Owner's Representative
5/9/19
Date

I/We LOUISE L. SEARS 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.

Louise L. Sears
Owner or Owner's Representative
05/09/2019
Date

I/We Thomas J. Hayward Jr 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.

Thomas J. Hayward Jr
Owner or Owner's Representative
6.12.19
Date

I/We Dorlene Dickens 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.

Dorlene Dickens
Owner or Owner's Representative
5-16-19
Date

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MARYLAND 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401

PROJECT NAME:

TRIBUTARY 3 TO HENSON CREEK STREAM RESTORATION PROJECT

SHEET TITLE:

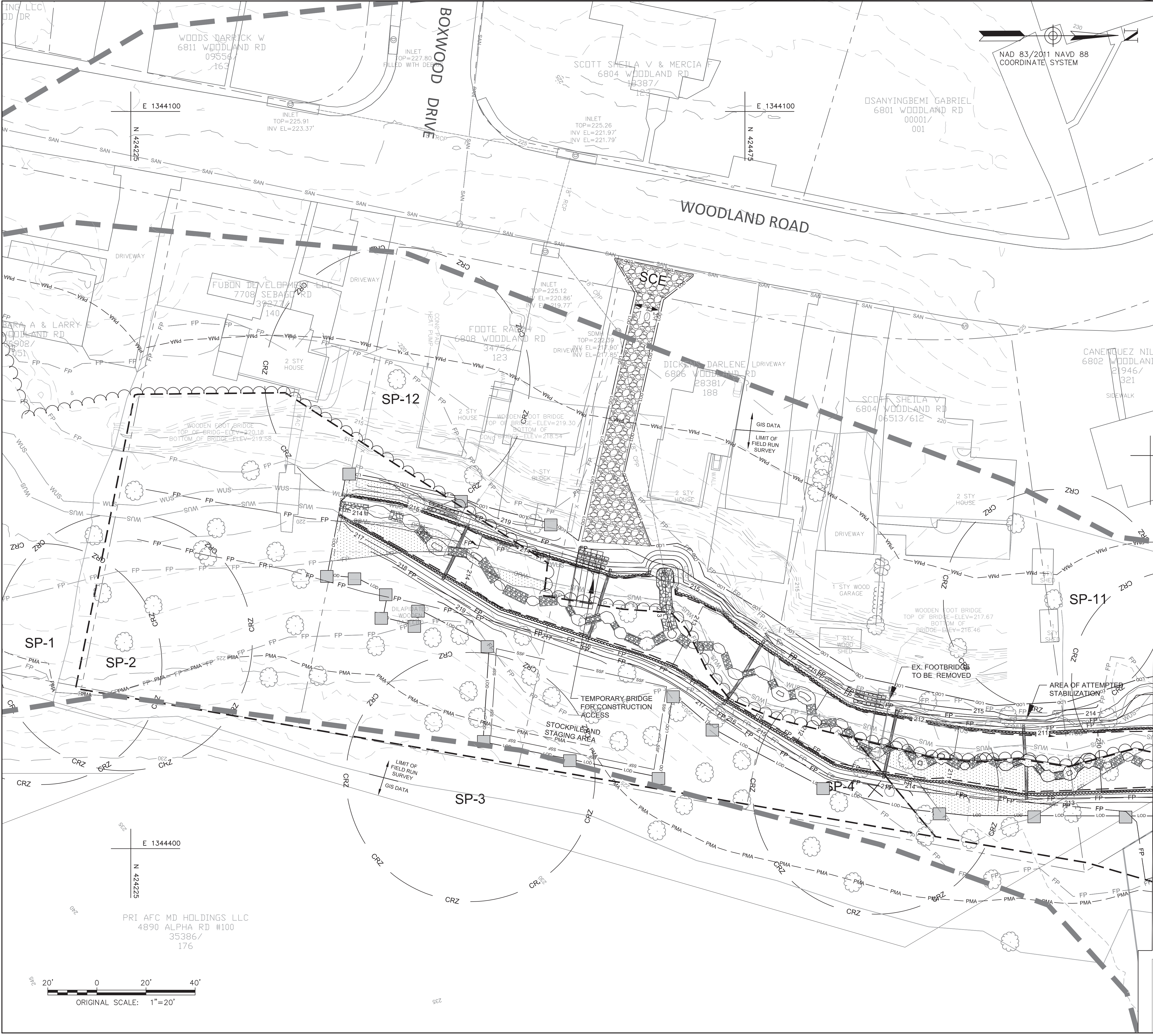
TYPE 2 TREE CONSERVATION PLAN

SEAL:	PROJECT NO: 111052.08
SCALE: NTS	DATE: 04/08/2019
DESIGN: HK	CHECK: KB
DWG NO:	
SHEET NO: 01 OF 07	

MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL
CENTURY ENGINEERING, INC. 443-589-2400
HALEY KELLY

Haley Kelly
SIGNATURE

04/08/2019
DATE



- LEGEND**
- PROPERTY BOUNDARY (GIS)
 - 5' CONTOUR (SURVEY)
 - 1' CONTOUR (SURVEY)
 - EDGE OF PAVEMENT (GIS)
 - EX. STORM DRAIN (SURVEY)
 - EX. SANITARY SEWER PIPE (SURVEY)
 - EX. STRUCTURE (GIS)
 - STEEP SLOPES (15-25%)
 - TREELINE
 - SPECIMEN TREE (≥ 30" DBH) & CRITICAL ROOT ZONE
 - NONTIDAL WETLAND
 - 25' STATE NONTIDAL WETLAND BUFFER
 - WATERS OF THE U.S.
 - EPHEMERAL CHANNEL
 - 100-YEAR FLOODPLAIN (AB CONSULTANTS)
 - REGULATED COUNTY STREAM BUFFER
 - EX. FLOODPLAIN EASEMENT
 - PRELIMINARY PMA (OFFSET 2' FOR CLARITY)
 - EX. METAL FENCE
 - PROPOSED BOULDER TOE PROTECTION
 - GRADE CONTROL LOG (GCL)
 - PROPOSED SUBGRADE FURNISHED BED MATERIAL
 - PROPOSED CLASS II RIPRAP SLOPE AND CHANNEL PROTECTION
 - FURNISHED BED MATERIAL EXTENTS
 - LIMIT OF DISTURBANCE
 - TEMPORARY HAUL ROAD
 - STABILIZED CONSTRUCTION ENTRANCE
 - TREE PROTECTION PLANKING
 - TREE TO BE REMOVED
 - SANDBAG DIVERSION
 - OUTLET PROTECTION
 - FILTER BAG
 - WATER DIVERSION PUMP
 - CLEARED FLOODPLAIN AREA
 - TEMP. FOREST PROTECTION SIGN
 - TEMP. SPECIMEN TREE PROTECTION SIGN

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section			
TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-007-2019			
Approved by	Date	DRD #	Reason for Revision
<i>Chris S. Sander</i>	6/27/2019		N/A
01			
02			
03			
04			
05			

MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL
CENTURY ENGINEERING, INC. 443-589-2400
HALEY KELLY
Haley Kelly
SIGNATURE
04/08/2019
DATE

PROPERTY OWNERS AWARENESS CERTIFICATE

I/We Kyle E. Foote 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 Owner's Representative
Date 5/8/2019

I/We Sheila V. Scott 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 Owner's Representative
Date 9 MAY 2019

I/We Nelson O. Canaquez 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 Owner's Representative
Date 5/9/19

I/We Louise L. Sears 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 Owner's Representative
Date 05/09/2019

I/We Thomas J. Ashland Sr. 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 Owner's Representative
Date 6-12-19

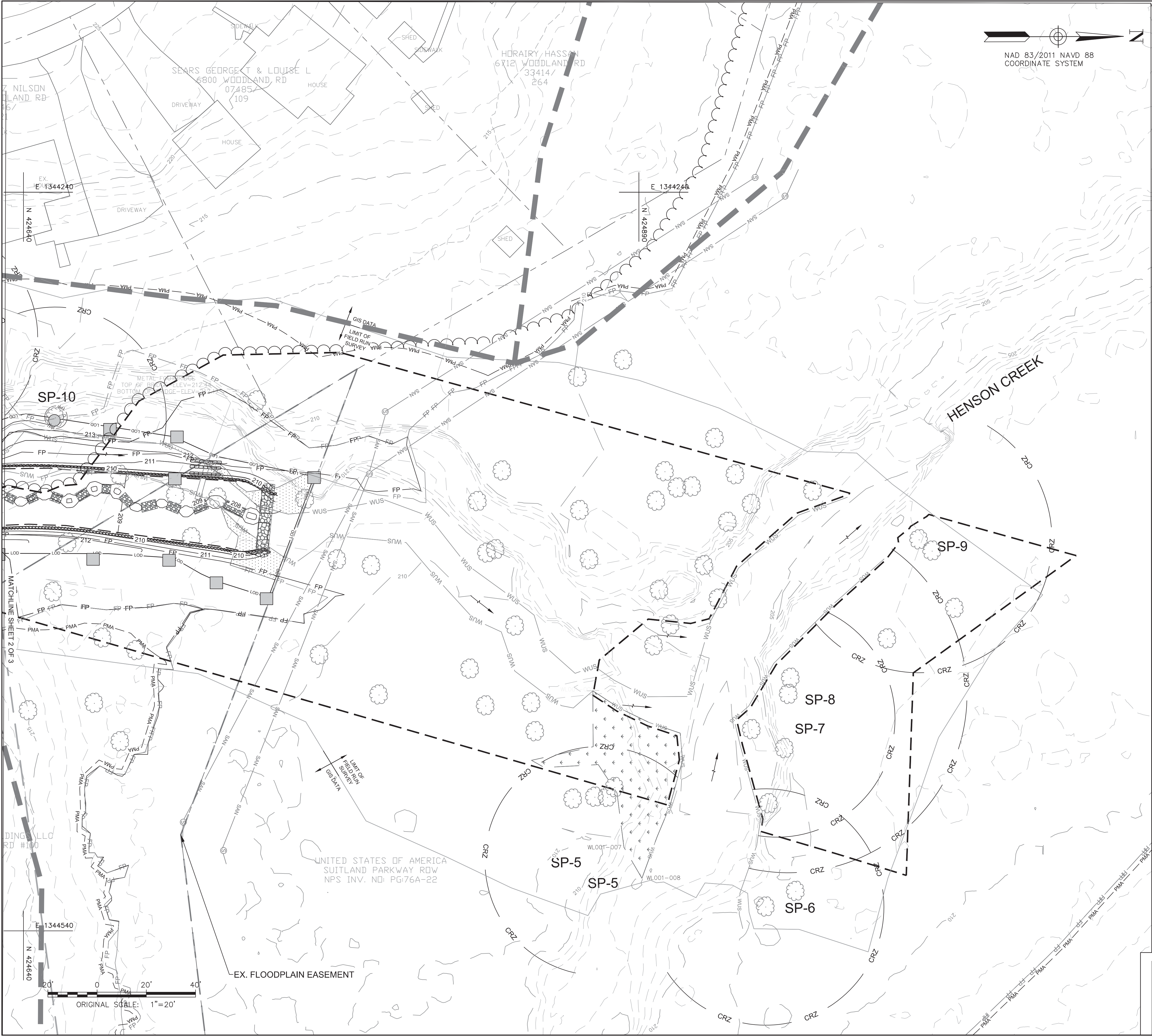
I/We Darlene Dickey hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.
Owner or Owner's Representative
Date 5-10-19

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MARYLAND 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401

PROJECT NAME:
TRIBUTARY 3 TO HENSON CREEK STREAM RESTORATION PROJECT

SHEET TITLE:
TYPE 2 TREE CONSERVATION PLAN

SEAL: PROJECT NO: 1111052.08
SCALE: 1"= 20' DATE: 04/08/2019
DESIGN: HK CHECK: KB
DWG NO:
SHEET NO: 02 OF 03



NAD 83/2011 NAVD 88
COORDINATE SYSTEM

- LEGEND
- PROPERTY BOUNDARY (GIS)
 - 5' CONTOUR (SURVEY)
 - 1' CONTOUR (SURVEY)
 - EDGE OF PAVEMENT (GIS)
 - EX. STORM DRAIN (SURVEY)
 - EX. SANITARY SEWER PIPE (SURVEY)
 - EX. STRUCTURE (GIS)
 - STEEP SLOPES (15-25%)
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 - TREE PROTECTION PLANKING
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 - FILTER BAG
 - WATER DIVERSION PUMP
 - CLEARED FLOODPLAIN AREA
 - TEMP. FOREST PROTECTION SIGN
 - TEMP. SPECIMEN TREE PROTECTION SIGN

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-007-2019			
Approved by	Date	DRD #	Reason for Revision
00	6/27/2019		N/A
01			
02			
03			
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MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL
CENTURY ENGINEERING, INC. 443-589-2400
HALEY KELLY
SIGNATURE
04/08/2019
DATE

PROPERTY OWNERS
AWARENESS CERTIFICATE

I/We Rigby E. Forte 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 Owner's Representative
Date 5/8/2019

I/We Sheila V Scott 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 Owner's Representative
Date 9 MAY 2019

I/We Nelson O. Canaque Jr. 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 Owner's Representative
Date 5/9/19

I/We Louise L. Sears 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 Owner's Representative
Date 05/09/2019

I/We Thomas J. Ashland Sr. 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 Owner's Representative
Date 6.12.19

I/We Darlene Dickens 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 Owner's Representative
Date 5-10-19

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MARYLAND 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401

PROJECT NAME:
**TRIBUTARY 3 TO HENSON CREEK
STREAM RESTORATION
PROJECT**

SHEET TITLE:
TYPE 2 TREE CONSERVATION PLAN

SEAL: PROJECT NO: 111052.08
SCALE: 1"= 20' DATE: 04/08/2019
DESIGN: CHECK:
DWG NO:
SHEET NO: 03 OF 07



TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK			
Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-007-2019			
Approved by	Date	DRD #	Reason for Revision
00 <i>Blue S. Schuler</i>	6/27/2019		N/A
01			
02			
03			
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MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED
 PROFESSIONAL CENTURY ENGINEERING, INC.
 HALEY KELLY

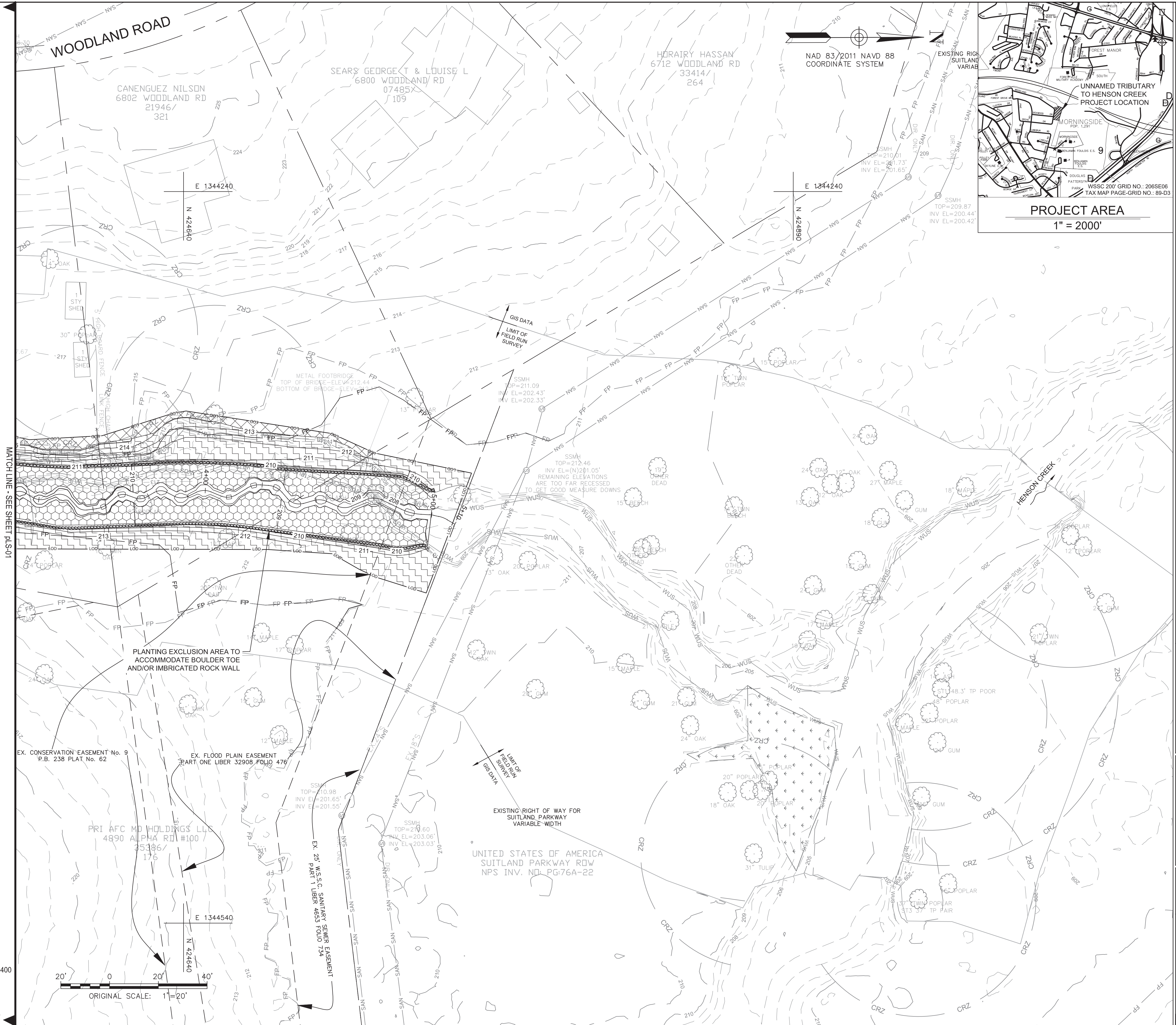
443-589-2400

Haley Kelly
 SIGNATURE

04/08/2019
 DATE

LANDSCAPE LEGEND

	ZONE 1: EMERGENT WETLAND/ FLOODPLAIN ZONE 3,200 SF / 0.07 AC
	ZONE 2: RIPARIAN FOREST TREE SHRUB ZONE 3,621 SF / 0.08 AC
	ZONE 3: TURFGRASS ZONE 502 SF / .01 AC



TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2-007-2019

Approved by	Date	DRD #	Reason for Revision
<i>Doreen Stanton</i>	6/27/2019		N/A
01			
02			
03			
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MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED
PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400
HALEY KELLY

Haley Kelly
SIGNATURE

04/08/2019
DATE

PROPERTY OWNERS
AWARENESS CERTIFICATE

I/We *Kyle E. Fote* 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.

Kyle E. Fote
Owner or Owner's Representative

5/8/2019
Date

I/We *Sheila V. Scott* 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.

SV Scott 6804
Owner or Owner's Representative

9 MAY 2019
Date

I/We *Nelson O. Canaque Jr.* 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.

Nelson O. Canaque Jr. 6802
Owner or Owner's Representative

5/9/19
Date

I/We *LOUISE L. SEARS* 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.

Louise L. Sears 6800 Woodland Rd
Owner or Owner's Representative MORNINGSIDES, MD
20946

05/09/2019
Date

I/We *THOMAS J. ALLWARD III* 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.

Thomas J. Allward III
Owner or Owner's Representative

6-12-19
Date

I/We *Doreene Dickens* 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.

Doreene Dickens
Owner or Owner's Representative

5-16-19
Date

CENTURY
ENGINEERING

CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MARYLAND 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401

PROJECT NAME:

TRIBUTARY 3 TO
HENSON CREEK
STREAM RESTORATION
PROJECT

SHEET TITLE:

TYPE 2 TREE CONSERVATION PLAN
LANDSCAPE PLAN SHEET

SEAL:

PROJECT NO.: 1111052.08

SCALE: 1"= 20' DATE:

DESIGN: CHECK:

DWG NO:

PLS-02 OF 02

SHEET NO:

6 OF 7

Landscaping Notes:

General Notes -

- Unless otherwise stipulated by specific requirements of this manual, the landscaping shown on this plan must be planted in accordance with the latest edition of the landscape specification guidelines, developed by the MD-DC-VA chapter of the Landscape Contractors Association.
- Any plantings 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 on the roots of existing trees.
- All plant material will be reinspected for survival by the Planning and Code Administration one year following installation. a 10 percent maintenance bond will be retained during this time period.
- Soil conditions must be tested, verified, and adjusted by the landscape contractor to insure that appropriate soils composition and pH levels are suitable for plant materials specified for that specific location.

Plant Material Selection -

- The contractor shall furnish plant materials in sizes and quantities specified in the plant schedules.
- Nursery grown plant material should meet or exceed the requirements of the American Nursery & Landscape Association's' (A.N.L.A.) latest edition of "American Standard Nursery Stock" (ANSI Z60.1) Specifications, particularly regarding the size, growth, size of the root ball, and density of branch structure.
- All planting material shall be sourced from within 100 miles of the site.
- No substitutions shall be made without the written consent of the Owner and/or Landscape Architect.
- The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his or her opinion, does not meet the requirements of these plans and specifications. All rejected material shall be removed from the site by the Contractor.

Plant Material Transport, Approval, & Storage -

- Plant material shall be protected to prevent sun scald, desiccation, and structural damage during transport to the site. Root stock of the plant material shall be kept moist during transport from the source to the job site and until planted.
- Plant material shall be inspected to be free of disease, damage, insect infestation, and vigor upon delivery to the site. All plants should be healthy and well structured. No heeled-cold storage or collected stock will be accepted. Plants in poor condition shall be rejected, removed from the site and replaced with acceptable materials.
- Plant material shall be stored in a cool, shaded area on the site and kept moist to prevent desiccation until ready for planting. Planting shall begin within 24 hours of plant delivery to the site. Plant material that remains unplanted beyond 24 hours shall be protected from direct sun, and weather and kept moist. Plant materials shall not be left unplanted for more than 2 weeks.
- The contractor is required to obtain clean fresh water for use during planting operations and the subsequent maintenance period.

Site Preparation and Planting -

- The site and areas immediately abutting (within 25' of) the LOD shall be treated for invasive species prior to the start of construction.
- No clearing or grading shall begin before stress-reduction measures have been implemented. Such measures may include root pruning, crown reduction or pruning, etc as specified on sheet 38 of 61 or by the plan preparer or an MDLTE/ISA certified arborist. See Forest Conservation Plan sheet for more information.
- Prior to beginning any construction activities, tree protection fencing shall be installed along all sections of the LOD abutting wooded/forested areas and around all 'tree save' areas to ensure preservation of these areas. See E&S plan sheets or the Forest Conservation Plan sheet for more information.
- All tree protection measures must be in place at the time of the Sediment & Erosion Control inspection, prior to the commencement of demolition, site clearing, grading, or construction. Tree protection devices shall be maintained for the duration of construction. No equipment, trucks, materials, or debris may be stored within the tree protection areas during the entire construction project.
- All trees to be removed must be removed in a manner that will not damage the remaining trees. The Contractor shall dispose of stumps and major roots of all plants to be removed. Any depressions caused by removal operations shall be refilled with fertile, friable, soil placed and compacted so as to reestablish

proper grade for new planting and/or lawn areas.

- Any trees that are to remain that are damaged during the clearing operation must be repaired or removed and replaced in an approved manner by an MDLTE/ISA certified arborist or city representative as soon as final clearing has been completed.

- Root pruning may be necessary where the critical root zone is impacted, as determined by the plan preparer or an MDLTE/ISA certified arborist. Pruning shall be along the LOD adjacent to tree protection fencing. A certified arborist shall supervise or conduct root pruning.

- Refer to the MDSHA Standards and Specifications Section 710.03.01 Planting Seasons Table for acceptable planting period. Planting shall not be completed in sub-freezing temperatures; when the ground is frozen; when weather conditions will adversely affect plant materials; or when the soil is too wet or otherwise in a condition not acceptable for planting.

- Mow planting area close to the ground one week (or less) prior to container planting date.

- The Contractor is responsible for testing project soils. The Contractor is to provide a certified soils report to the owner. The contractor shall verify that the soils on site are acceptable for the proper growth of the proposed plant material. Should the contractor find poor soil conditions, the contractor shall be required to provide soil amendments as necessary. These amendments shall include, but not be limited to fertilizers, lime, and topsoil. Proper planting soils must be verified prior to when planting materials are installed.

- Prepare planting pits per details as shown MDSHA Standards and Specifications Section 710.03.04.

- All trees are to be located and minimum distance of 5 feet from all utility boxes, 5 feet from a storm drain inlet or man-hole, 10 feet from a fire hydrant, 15 feet from public street lights, 5 feet from driveway aprons, 20 feet from any traffic control sign, and at least 30 feet away from any intersection.

- Install plant materials per MDSHA Standards and Specifications 710.03.09.

- Upon completion of all landscaping, an acceptance of the work shall be held. The contractor shall notify the Landscape Architect of the Owner for scheduling of the inspection at least seven (7) days prior to the anticipated inspection date.

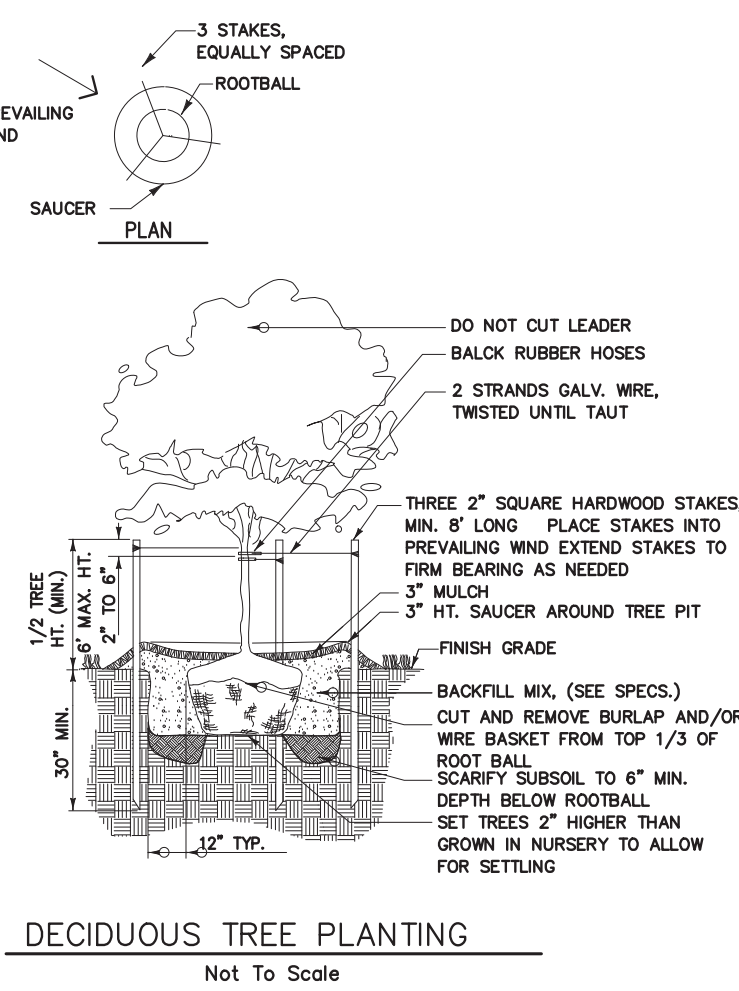
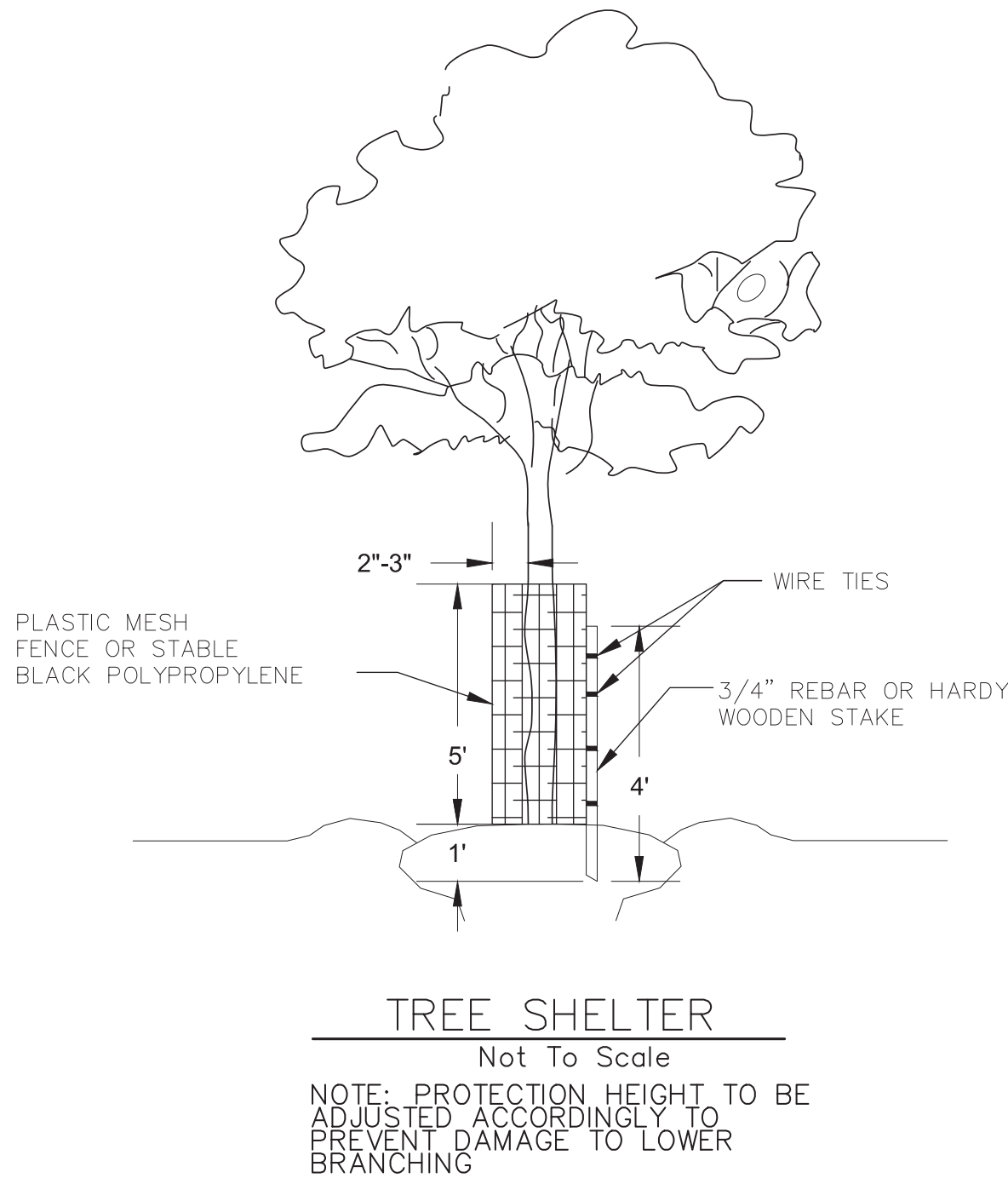
- After installation of plants, the contractor shall monitor the soil moisture and water needs of plants and seed as necessary to ensure survivability. Watering planting pits and seeded areas should occur as specified in MDSHA Standards and Specifications Section 710.03.04(c).

- A biodegradable tree shelter is to be installed as shown in the Biodegradable Tree Shelter detail around every planted deciduous tree.

Maintenance -

- Upon completion of installation, the planting area is to be maintained for a 2 year period. An 85% survival rate must be achieved from the date of acceptance to the termination of the maintenance period. Maintenance shall be as follows:

- Any plant material showing signs of distress are to be replaced immediately by the contractor.
- Native volunteer seedlings shall be removed only if they are adversely impacting the growth of the planted material. Non-native and invasive species are to be treated within the entire planting area through selected and approved means.
- All man-made materials shall be removed from the site which would impact the establishment of the planted materials.
- Thoroughly water planted material once weekly or as needed during the growing season.
- Planted material is to be monitored for signs of damage and appropriate actions shall be taken to prevent further damage. This may include, but not be limited to, the following: pest damage or infestation, disease or browsing; any dead or decimated material shall be replaced with the identical species or an approved replacement.
- At the end of the 2 year maintenance period, the site shall be inspected for the approved survival rate as required by Prince George's County



DECIDUOUS TREE PLANTING
Not To Scale

HENSON CREEK TRIBUTARY 3 PLANTING SCHEDULES

Turfgrass Seed Mix (Total Area = 3,032 SF / 0.07 AC)

Botanical Name	Quantity (lbs)
SHA Turfgrass Seed Mix 920.06.07 (a)	14.00

Total Application Rate of 200 lbs/ac

Emergent Wetland/Floodplain Zone Plugs (8,058 SF / 0.18 AC)

Botanical Name	Common Name	Size	Form	Spacing	Quantity
Carex stricta	Tussock sedge	5" Depth	2" Plug	3' O.C.	172
Osmunda regalis	Royal fern	5" Depth	2" Plug	3' O.C.	172
Onoclea sensibilis	Sensitive fern	5" Depth	2" Plug	3' O.C.	172
Scirpus cyperinus	Wool grass	5" Depth	2" Plug	3' O.C.	172
Iris versicolor	Blue flag	5" Depth	2" Plug	3' O.C.	172
Verberna hastata	Swamp verbena	5" Depth	2" Plug	3' O.C.	172
Total:					1032

Riparian Forest Tree/Shrub Zone (12,397 SF / 0.28 AC)

Botanical Name	Common Name	Strata	Size	Form	Spacing	Quantity
Liriodendron tulipifera	Tulip poplar	LST	6-8' Height	#5 Container	16'-18' O.C.	11
Quercus rubra	Northern Red Oak	LST	6-8' Height	#5 Container	16'-18' O.C.	11
Carya glabra	Pignut Hickory	LST	6-8' Height	#5 Container	16'-18' O.C.	11
Quercus alba	White Oak	LST	6-8' Height	#5 Container	16'-18' O.C.	10
Total:						43
Cercis canadensis	Eastern Redbud	MST	5' Height	#3 Container	12'-14' O.C.	8
Sassafras albidum	Sassafras	MST	5' Height	#3 Container	12'-14' O.C.	7
Ilex opaca	American Holly	MST	5' Height	#3 Container	12'-14' O.C.	7
Total:						22
Ilex verticillata	Common winterberry	Shrub	2'-3' Height	#2 Container	6'-8' O.C.	26
Viburnum dentatum	Southern arrowwood	Shrub	2'-3' Height	#2 Container	6'-8' O.C.	25
Lindera benzoin	Spicebush	Shrub	2'-3' Height	#2 Container	6'-8' O.C.	25
Total:						76

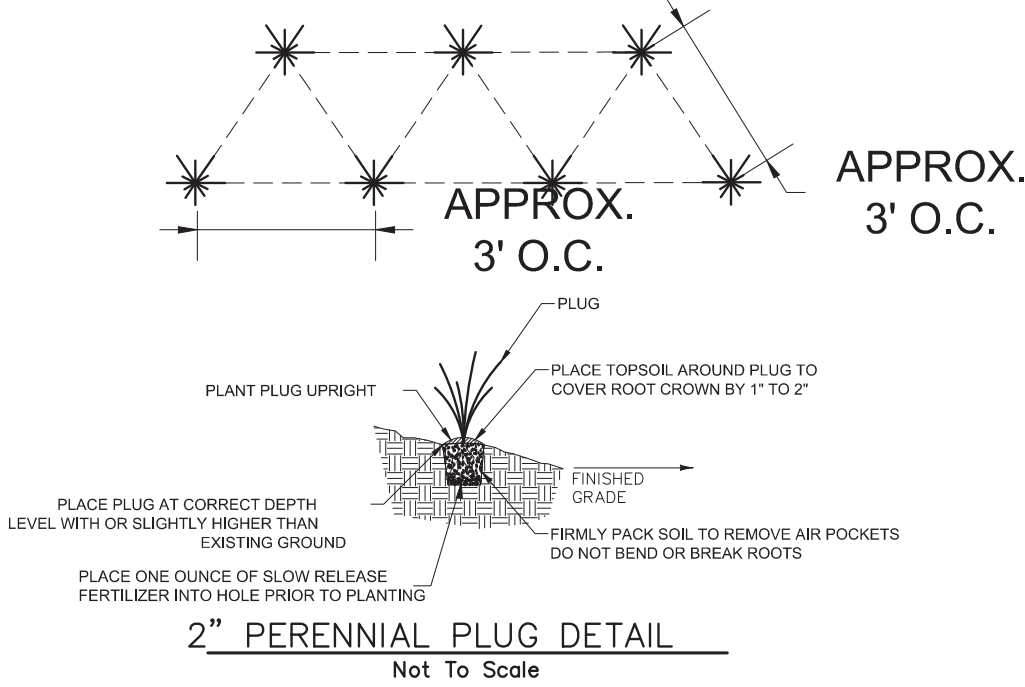
LST=Large Shade Tree, MST=Medium Shade Tree

Riparian Forest Zone Seed Mix (12,397 SF / 0.28 AC)

Botanical Name	Common Name	Percent of Mix	Application Rate (lbs/AC)	Quantity (lbs)
Andropogon gerardii	Big bluestem	35.00%	14.00	3.92
Panicum virgatum	Switchgrass	28.00%	11.20	3.14
Elymus virginicus	Virginia wildrye	22.00%	8.80	2.46
Sorghastrum nutans	Indiangrass	12.00%	4.80	1.35
Desmodium canadense	Showy ticktrefoil	1.00%	0.40	0.11
Symphotrichum novae-angliae	New England aster	1.00%	0.40	0.11
Aquilegia canadensis	Red columbine	1.00%	0.40	0.11
Total Application Rate of 40 lbs/ac. To be applied with 15lbs/ac of perennial ryegrass (Lolium perenne) and 60lbs/ac of hard fescue (Festuca trachyphylla) during the periods of March 1 to May 15 and August 1 to October 15 or foxtail millet (Setaria italica) if during May 16 to July 31.				Total: 11.21

Emergent Wetland/Floodplain Zone Seed Mix (8,058 SF / 0.18 AC)

Botanical Name	Common Name	Percent of Mix	Application Rate (lbs/AC)	Quantity (lbs)
Elymus riparius	Riverbank wildrye	28.00%	11.20	2.02
Andropogon gerardii	Big bluestem	20.00%	8.00	1.44
Panicum clandestinum	Deertongue	10.00%	4.00	0.72
Carex lurida	Shallow sedge	10.00%	4.00	0.72
Carex vulpinoidea	Fox sedge	10.00%	4.00	0.72
Carex scoparia	Blunt broom sedge	8.00%	3.20	0.58
Panicum virgatum	Switchgrass	4.00%	1.60	0.29
Juncus effusus	Soft rush	2.00%	0.80	0.14
Asclepias incarnata	Swamp milkweed	2.00%	0.80	0.14
Eupatorium perfoliatum	Common boneset	2.00%	0.80	0.14
Vernonia noveboracensis	New York ironweed	2.00%	0.80	0.14
Helopsis helianthoides	Oxeye sunflower	2.00%	0.80	0.14
Total Application Rate of 40 lbs/ac. To be applied with 15lbs/ac of perennial ryegrass (Lolium perenne) and 60lbs/ac of hard fescue (Festuca trachyphylla) during the periods of March 1 to May 15 and August 1 to October 15 or foxtail millet (Setaria italica) if during May 16 to July 31.				Total: 7.20



MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED
PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400
HALEY KELLY

Signature
SIGNATURE

04/08/2019
DATE

PROPERTY OWNERS AWARENESS CERTIFICATE

I/We Kyle E. Fogle 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.

Kyle E. Fogle
Owner or Owner's Representative
5/8/2019
Date

I/We Sheila V. Scott 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.

SV Scott 6804
Owner or Owner's Representative
9 MAY 2019
Date

I/We Nelson O. Canaquez 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.

Nelson O. Canaquez
Owner or Owner's Representative
5/9/19
Date

I/We LOUISE L. SEARS 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.

Louise L. Sears
Owner or Owner's Representative
05/09/2019
Date

I/We Thomas J. Aylward III 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.

Thomas J. Aylward III
Owner or Owner's Representative
6-12-19
Date

I/We Dorene Dickens 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.

Dorene Dickens
Owner or Owner's Representative
5-10-19
Date

**CENTURY
ENGINEERING**
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MARYLAND 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401

PROJECT NAME:

TRIBUTARY 3 TO HENSON CREEK STREAM RESTORATION PROJECT

SHEET TITLE:

TYPE 2 TREE CONSERVATION PLAN LANDSCAPE DETAIL

SEAL:	PROJECT NO: 111052.08
SCALE: N.T.S.	DATE:
DESIGN:	CHECK:
DWG NO:	
pLD-01 OF 01	
SHEET NO:	7 of 7