

MONTGOMERY PLANNING DEPARTMENT

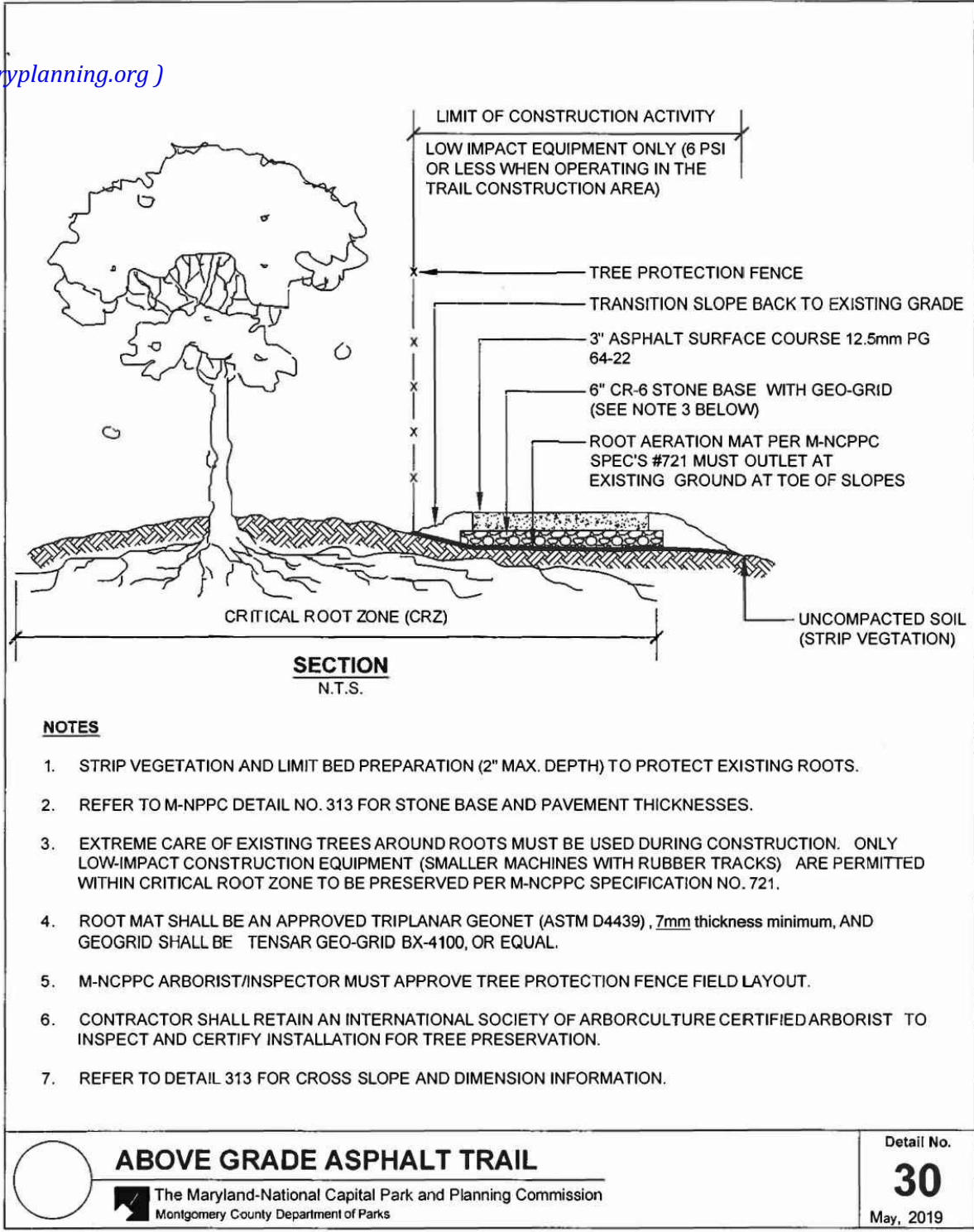
THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

APPROVED - 42019125E

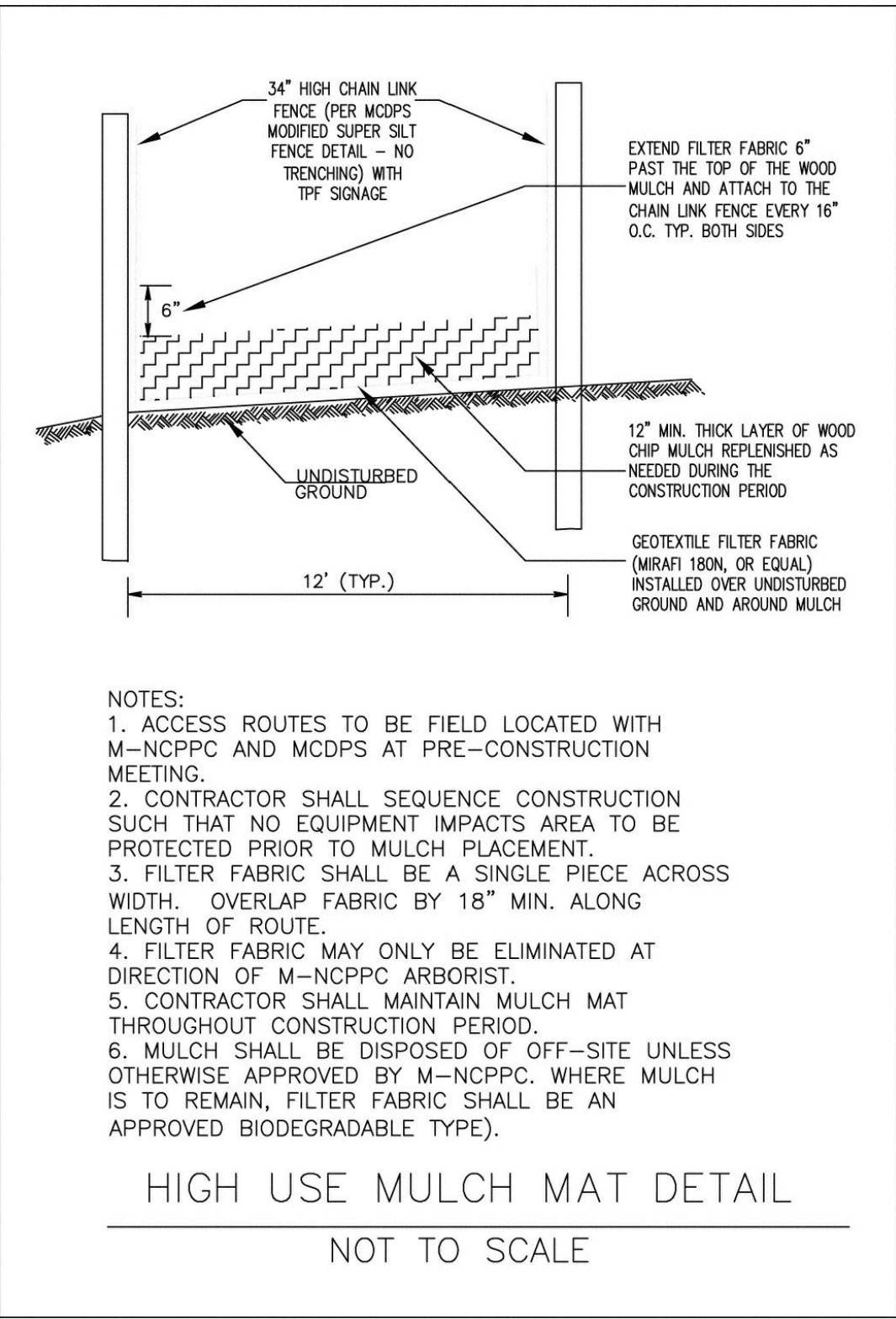
David Wigglesworth (david.wigglesworth@montgomeryplanning.org)

05/17/19

8 PLANNING APPROVAL



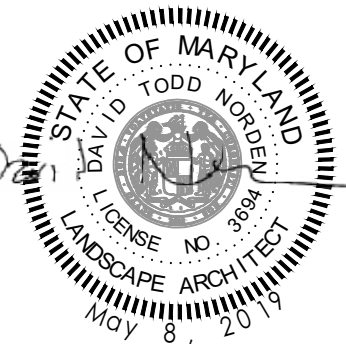
6 PAVING INSIDE CRITICAL ROOT ZONE



THIS PLAN WAS PREPARED BY DAVE NORDEN, MARYLAND REGISTERED LANDSCAPE ARCHITECT 3694 AND IS A CERTIFIED ARBORIST MA5513A.

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7 QUALIFIED PROFESSIONAL CERTIFICATION

5 DNR RESPONSE LETTER

4 TREE PROTECTION FENCE DETAIL

Larry Hogan, Governor

Boyd Rutherford, Lt. Governor

Mark Belton, Secretary

Joanne Throws, Deputy Secretary

December 5, 2018:

Mr. Dave Norden
LSG Landscape Architecture
#110
1775 Greensboro Station Place
McLean, VA 22102

RE: Environmental Review for Silver Spring Intermediate Park, Site Upgrades, 7801 Chicago Avenue, Silver Spring, Montgomery County, Maryland.

Dear Mr. Norden:

The Wildlife and Heritage Service has determined that there are no official State or Federal records for listed plant or animal species within the delineated area shown on the map provided. As a result, we have no specific concerns regarding potential impacts or recommendations for protection measures at this time. Please let us know however if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2018.1707.mo

Tawes State Office Building -- 580 Taylor Avenue -- Annapolis, Maryland 21401
410-260-8DNR or toll free in Maryland 877-620-8DNR -- dnr.maryland.gov -- TTY Users Call via the Maryland Relay

3A ROOT PRUNING DETAIL

REMOVAL OF EXISTING PAVEMENT WITHIN A TREE'S CRITICAL ROOT ZONE

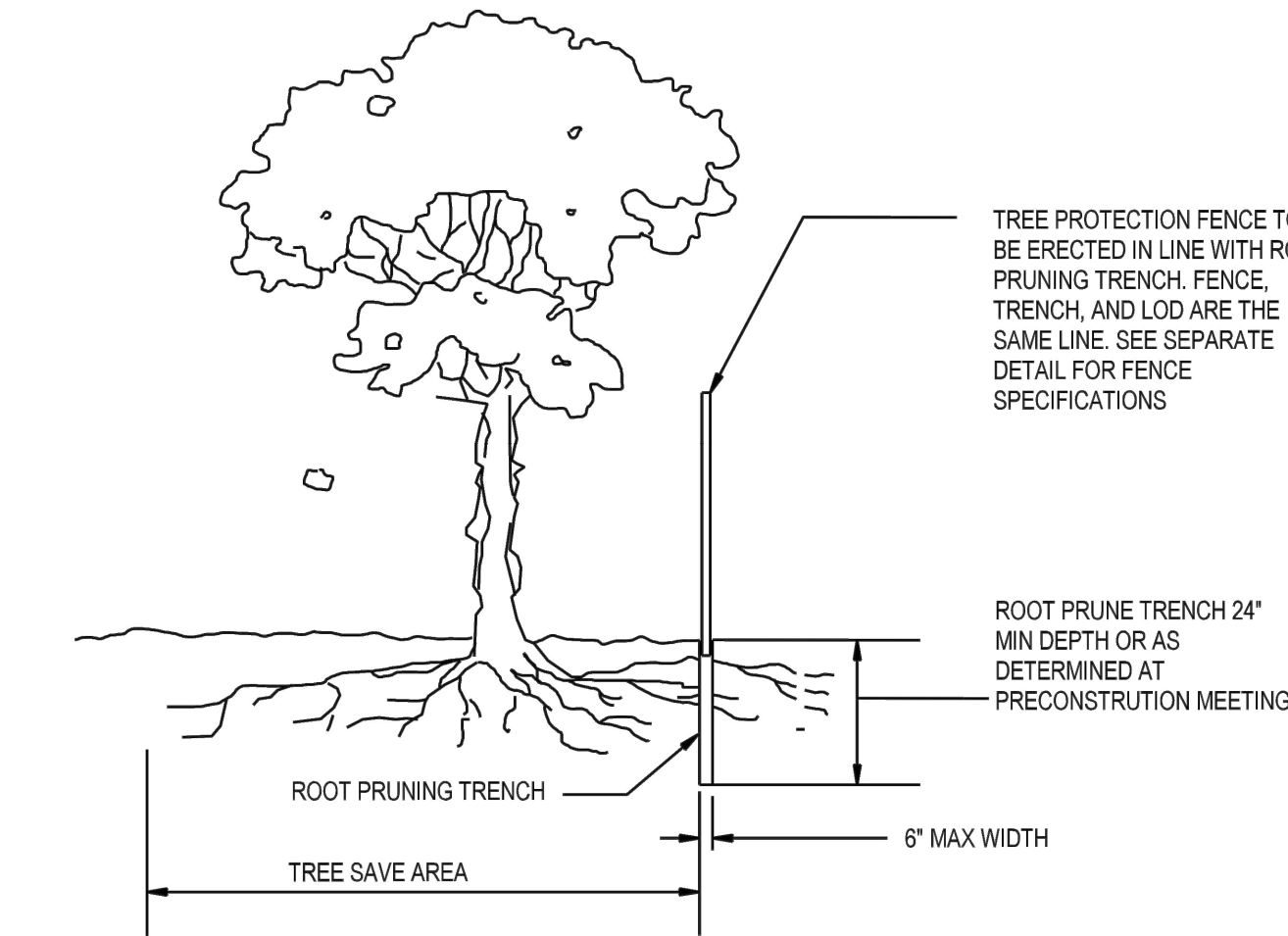
- THE CONTRACTOR SHALL MEET WITH THE M-NCPPC URBAN FORESTER AND CONSTRUCTION INSPECTOR PRIOR TO REMOVAL OF THE PAVEMENT TO DISCUSS METHODS TO BE USED TO REMOVE PAVEMENT. REMOVAL OF PAVEMENT MAY BE REQUIRED TO BE DONE BY HAND DEPENDING ON SITE CONDITIONS.
- THE EXISTING TOP LAYER OF PAVEMENT SHALL BE PEELED AWAY WITHOUT DISTURBING THE GROUND OR MATERIAL BENEATH. IF A BASE COURSE OF ROCK IS BENEATH THE PAVEMENT THE ROCK SHALL BE LEFT IN PLACE.
- DURING THE REMOVAL OF THE PAVEMENT LAYER GREAT CARE SHALL BE TAKEN TO NOT DISTURB EXISTING TREE ROOTS ALONG OR UNDER EXISTING PAVEMENT. EXISTING TREE ROOTS GREATER THAN 1.5" IN DIAMETER ENCOUNTERED DURING THE REMOVAL PROCESS SHALL NOT BE CUT UNLESS APPROVED BY THE M-NCPPC URBAN FORESTER.
- EQUIPMENT SHOULD REMAIN ON EXISTING PAVEMENT DURING THE REMOVAL PROCESS. EQUIPMENT SHALL NOT TRAVERSE OVER AREAS WHERE PAVEMENT WAS REMOVED IN ORDER TO PROTECT EXPOSED TREE ROOTS.
- GROUND PROTECTION SUCH AS A 12" MULCH LAYER WILL BE REQUIRED IF EQUIPMENT IS NEEDED TO BE OPERATED WITHIN THE CRITICAL ROOT ZONE.
- REMOVAL OF THE EXISTING PAVEMENT SHALL BE DONE UNDER SUPERVISION OF THE M-NCPPC URBAN FORESTER AND THE CONSTRUCTION INSPECTOR.
- STABILIZE AREA PER APPROVED PLAN OR AS DIRECTED BY CONSTRUCTION INSPECTOR.

2 PAVEMENT REMOVAL IN CRZ SEQUENCE OF EVENTS

WHERE ROOT AERATION MATTING IS SPECIFIED, THE FOLLOWING SEQUENCE OF CONSTRUCTION FOR INSTALLATION SHALL BE USED TO AVOID DAMAGING THE ROOTS:

- THE PURPOSE OF THE ROOT AERATION MATTING IS TO REDUCE COMPACTION AND RUTTING OF EXISTING SOIL AND ROOT SYSTEMS DUE TO PROPOSED FILL ACTIVITIES. USE ONLY EQUIPMENT WITH 6 PSI OR LESS OF GROUND PRESSURE WHEN OPERATING WITHIN THE CONSTRUCTION AREA DESIGNATED FOR MATTING. EQUIPMENT SHALL NOT ACCESS WITHIN THE LOD UNTIL ROOT AERATION MATTING AND ASSOCIATED FILL (MULCH, ROCK, SOIL) IS PLACED ON THE GROUND. SEE GRADING PLANS FOR AREAS WHERE MATTING IS TO BE USED. INSTALL MATTING OVER NON-COMPACTED SOILS.
- ROLL OUT MATTING TO 2-3 FEET BEYOND THE EXTENT OF FILL. INSTALL GRANULAR BACKFILL AS REQUIRED BRINGING THE AREA UP TO GRADE OF THE PAVING SUBBASE.
- AFTER PAVING, BACKFILL ALONG THE WALKWAYS WITH APPROVED FILL AND TOPSOIL TO MEET PROPOSED GRADES. TRIM ANY EXCESS MATTING THAT EXTENDS BEYOND THE FINISH GRADES OR REMOVE THE ADJACENT SOD LAYER AND BURY THE ENDS OF THE MATTING BENEATH THE SOD.
- HAND RAKED AS REQUIRED FULLY CONCEALING THE MATTING, AND MAINTAINING A SMOOTH TRANSITIONAL GRADE BETWEEN EXISTING AND NEW GRADES.
- RESEED OR RESOD OR MULCH AS DIRECTED.

3 ROOT PRUNING SEQUENCE OF EVENTS



- NOTES:
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
 - BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
 - EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR .
 - TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
 - ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
 - ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions From Submitting Forest Conservation Plans, and Tree Save Plans

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

Pre-Construction

- An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
- The property owner must arrange for the meeting and following people should must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.
 - Typical tree protection devices include:
 - Chain link fence (four feet high)
 - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
 - 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
 - Typical stress reduction measures may include, but are not limited to:
 - Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
 - Crown Reduction or pruning
 - Watering
 - Fertilizing
 - Vertical mulching
 - Root aeration systemsMeasures 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.
- A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.
- Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.
- Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
 - Parking or driving of equipment, machinery or vehicles of any type.
 - Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
 - Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
 - Felling of trees into a protected area.
 - Trenching or grading for utilities, irrigation, drainage, etc.
- Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish.

During Construction

- Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.
- The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

Post-Construction

- After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
 - Removal, and possible replacement, of dead, dying, or hazardous trees
 - Pruning of dead or declining limbs
 - Soil aeration
 - Fertilization
 - Watering
 - Wound repair
 - Clean up of retention areas, including trash removal
- After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.
- Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

1 FCP SEQUENCE OF EVENTS

LSG LANDSCAPE ARCHITECTURE		DESIGN		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.		The Maryland-National Capital Park and Planning Commission	Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Simplified NRI & FC Exemption	DWG. # L004		
Designer's Name DAVE NORDEN		Landscape Architect	Date					Checked By:	REVISIONS		Rev. No.			Date	Description
Address 1775 GREENSBORO STATION PLACE, SUITE 110		Architect	Date					Checked By:	1	12/20/18	Design Development				
City/State/Zip TYSONS, VIRGINIA, 22102		Engineer	Date					Checked By:	2	02/11/18	Simplified NRI and FC Exemption				
Telephone Number 703-821-2045		Drawn by	Date					Checked By:	3	05/08/19	Rev. Simplified NRI and FC Exemption				
												PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01	SHT. # 03 OF 03		