

Architecture Engineering Environmental Land Surveying

111 South Calvert Street Suite 2700 Baltimore, MD 21202-3200

111 South Calvert Stree: Suite 2700 Baltimore, MD 21202-320 (410) 385-5266 (877) 567-0143 Fax

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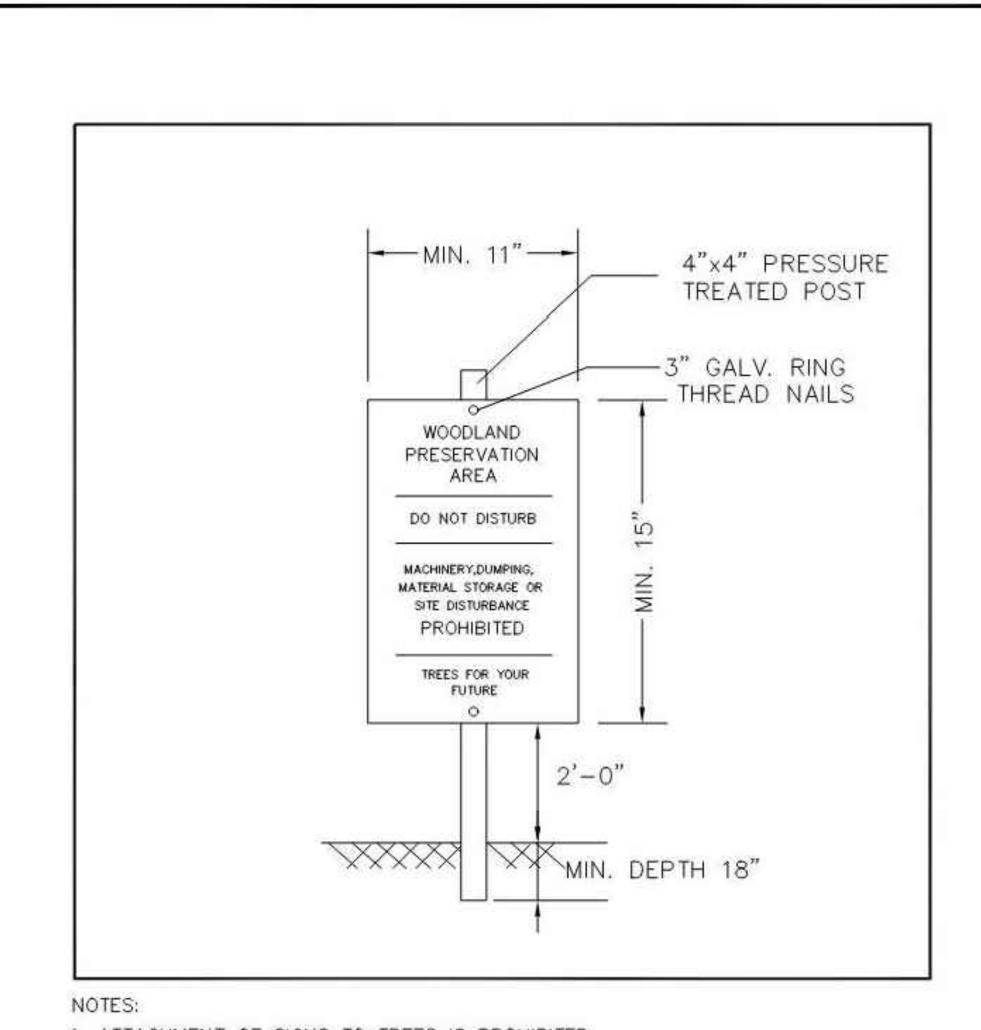
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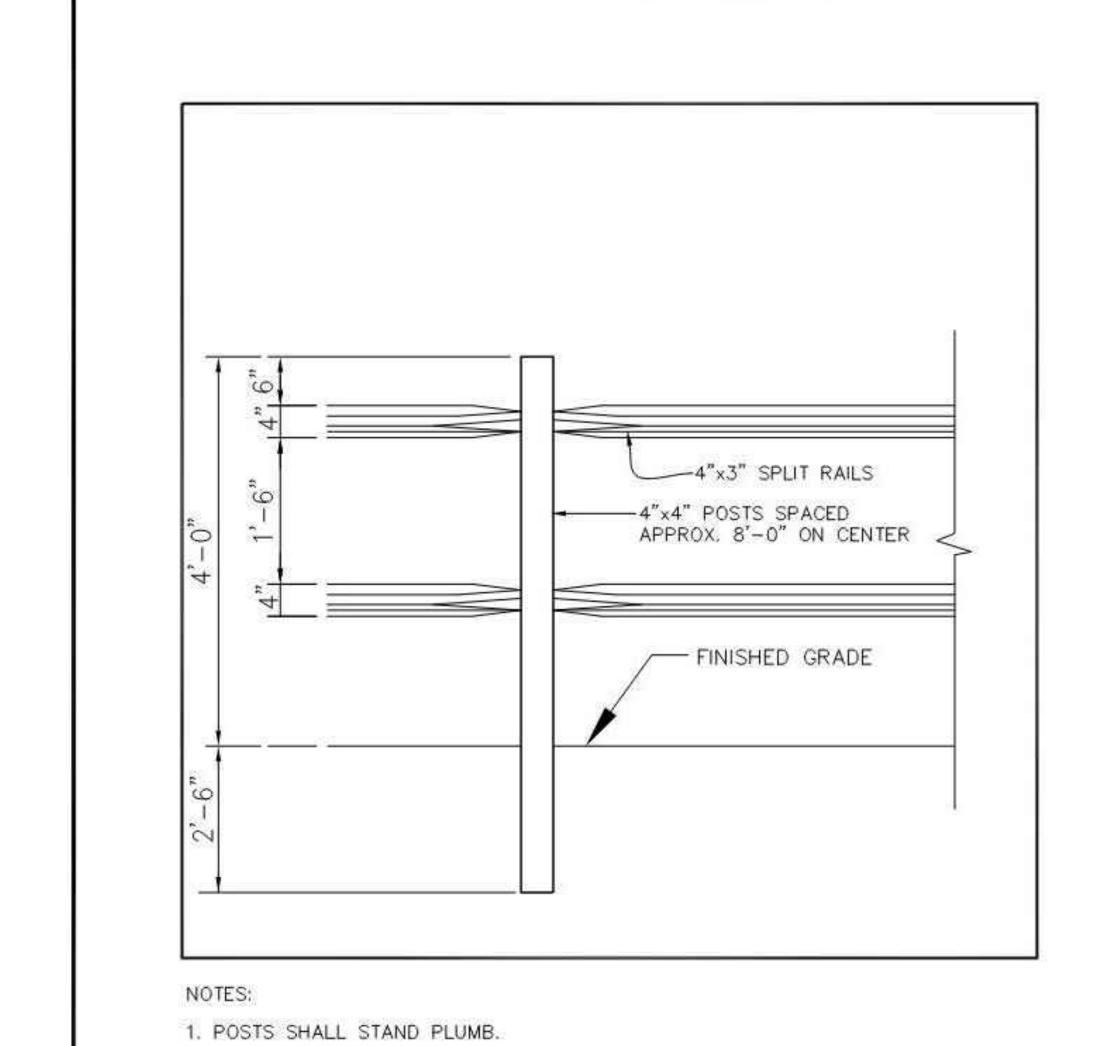
Reviewed GJH
Scale 1"=50'
Project No. 2000464
Date 03/29/2021
CAD File:
TCP2-SP2000464-03

TREE
CONSERVATION
PLAN

Sheet No.

1 of 2





2. RAILS SHALL BE HUNG WITH UNIFORM HEIGHT AND SPACING.

4. TOP OF SIGN TO BE FLUSH WITH TOP OF WOOD POST.

3. REFORESTATION SIGNS TO BE ATTACHED TO WOOD POSTS EVERY 50 FEET..

SIGNS TO BE ATTACHED USING 2 GALVANIZED WOOD SCREWS EACH WITH A GALVANIZED WASHER.

PERMANENT (SPLIT RAIL) TREE PROTECTION FENCE

FOR REFORESTATION AREAS

- 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. 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
- 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.

---MIN. 11"---

WOODLAND

CONSERVATION

REFORESTATION

PROJECT

DISTURBANCE TO SEEDLINGS

SHRUBS OR TREES IS

PROHIBITED

TREES FOR YOUR

FUTURE

AREA

4"x4" PRESSURE

TREATED POST

-3" GALV. RING

THREAD NAILS

6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.

7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN

- 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.
- 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
- 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
- 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
- 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

WOODLAND PRESERVATION AREA SIGN

Environmental Technical Manual

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Environmental Technical Manual

Prince George's County Planning Department

Appendix A-43

INVASIVE SPECIES MANAGEMENT PRIORITIZATION AND TIMELINE

THE WORKPLAN DESCRIBED BELOW WILL GUIDE INVASIVE SPECIES MANAGEMENT EFFORTS IN THE PROJECT AREA FOR THE NEXT FOUR YEARS (2022 -2024). AT THE END OF THIS PERIOD, THE PARTNERS WILL ASSESS PROGRESS MADE TOWARD ISP GOALS. THE HIGH NUMBER OF INVASIVE SPECIES, AND THE DENSITY OF SEVERAL OF THESE SPECIES, IT WILL NOT BE FEASIBLE TO ELIMINATE ALL OCCURRENCES OF ALL INVASIVE SPECIES FROM THE SITE. CONSISTENT APPLICATION OF THE ERADICATION PROCEDURE EACH YEAR WILL REDUCE OR ELIMINATE MANY OF THE ISOLATED POPULATIONS ON SITE. MANAGEMENT OF THE INVASIVE POPULATIONS WILL CHECK FURTHER SPREAD SLOW NEW INFESTATIONS AND

THE FOLLOWING SECTION OUTLINES THE INVASIVE SPECIES MANAGEMENT PLAN. IT INCLUDES A) AN OUTLINE OF PRIORITIZATION BY SPECIES; B) A TIMELINE OF SEASONAL ACTIVITIES THAT IDENTIFIES WHEN ACTIVITIES WILL TAKE PLACE, AND LISTS NEEDED EQUIPMENT, AND STAFFING AND/OR VOLUNTEER NEEDS; AND, C) A SPECIES-BY- SPECIES SUMMARY OF MANAGEMENT OPTIONS. THIS INFORMATION WAS DEVELOPED USING AVAILABLE RESEARCH AND TAILORING THE ISP TO SITE SPECIFIC CONDITIONS.

THE ISP IS CURRENTLY DESIGNED TO ADDRESS THE INVASIVE PLANT CONTROL PRIORITIES OF MNCPPC, AMAZON.COM, LLC, AND BL COMPANIES. THE PLAN WAS DEVELOPED IN CONSULTATION WITH AND/OR REVIEWED BY MNCPPC.

ELIMINATING AND CONTROLLING AN AREA HEAVILY POPULATED WITH INVASIVE PLANTS REQUIRES INTENSIVE MANAGEMENT TECHNIQUES THAT MAY NOT COMPLETELY ELIMINATE EACH SPECIES. THEREFORE, MANAGEMENT PRIORITIES ARE SET WITH THE GOAL OF ACHIEVING GREATEST ECOLOGICAL BENEFIT WHILE MINIMIZING THE TOTAL, LONG-TERM WORKLOAD AND PROJECT COSTS. IN ORDER TO DETERMINE WHICH INVASIVE

• ECOLOGICAL PRIORITIES: PROVIDE A HEALTHY, ECOLOGICALLY FUNCTIONING WOODLAND AND NATURAL WOODLAND REGENERATION HABITAT THAT ENHANCES THE RIPARIAN AREA SURROUNDING THE ON-LINE STORMWATER BASIN AND PREVENTS SOIL EROSION ALONG THE STEEP SLOPES. • RECREATIONAL LAND USES: THE INDUSTRIAL NATURE OF THE SITE PRECLUDES RECREATIONAL LAND USES, OUTSIDE OF AESTHETICS FOR ON-SITE EMPLOYEES. • AVAILABLE RESOURCES: AMAZON.COM, LLC WILL BE THE PRIMARY RESPONSIBLE PARTY FOR THE FINANCIAL REQUIREMENTS TO SUCCESSFULLY IMPLEMENT THIS PLAN. BL COMPANIES WILL PROVIDE THE YEAR-TO-YEAR PERSONNEL TO SUCCESSFULLY COMPLETE THE ON-SITE INVASIVE SPECIES MANAGEMENT. • INVASIVE MANAGEMENT TECHNIQUES: SOME INVASIVE SPECIES ARE MORE EASILY AND MORE COST-EFFECTIVELY MANAGED WITH GREATER ECOLOGICAL BENEFIT. IN ADDITION, THERE ARE A NUMBER OF TECHNIQUES FOR CONTROLLING INVASIVE SPECIES, SOME MORE EFFECTIVE THAN OTHERS. THEREFORE, IT IS IMPORTANT TO MAKE MANAGEMENT DECISIONS BASED ON THE ABILITY TO CONTROL ONE OR MORE SPECIES, THE TECHNIQUES AVAILABLE AT A SPECIFIC

SITE, AND CONCERNS FOR IMPACT TO NATIVE SPECIES. MULTIPLE MANAGEMENT TECHNIQUES WILL BE IMPLEMENTED AT THE SITE. A COMBINATION OF BOTH HAND PULLING, MANUAL CUTTING EQUIPMENT (I.E. LOP SHEERS) ALONG WITH ROUGH-CUT WALK-BEHIND MOWER AND/OR A GAS-POWERED HEDGE TRIMMER (E.G. STIHL ARTICULATED 23-INCH-LONG HEDGE TRIMMER), AND CHAINSAWS WILL BE USED TO ERADICATE THE VARIOUS INVASIVE SPECIES ON-SITE.

AFTER A PERIOD OF APPROXIMATELY THREE MONTHS OF THE GROWING SEASON, DURING WHICH TIME THE CUT LONICERA SPP. AND RUBUS SPP. STEMS HAVE PRODUCED NEW LEAFY GROWTH, THE STAND SHALL BE SPRAYED WITH GLYPHOSATE-BASED HERBICIDE. A BACKPACK SPRAYER WITH LOW PRESSURE AND COARSE SPRAY PATTERN SHALL BE USED TO REDUCE SPRAY DRIFT DAMAGE TO NATIVE TREES AND SHRUBS. HERBICIDE WILL BE APPLIED WHEN THE AIR TEMPERATURE IS ABOVE 65°F TO ENSURE ABSORPTION OF HERBICIDE. UNIFORMLY WET LEAVES AND GREEN STEMS BUT AVOID RUNOFF. THE OPTIMAL TIME PERIOD IS WHEN PLANTS ARE ACTIVELY GROWING. BUT BEFORE FRUIT FORMATION. THIS APPLICATION MUST BE MADE ON A WINDLESS DAY, IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS. A SECOND APPLICATION OF GLYPHOSATE SHALL BE MADE AFTER A TWO-THREE-MONTH PERIOD DURING WHICH ANY ADDITIONAL LEAFY GROWTH MAY EMERGE. FOLLOWING THE PROCEDURE DESCRIBED AROVE THESE FACTORS HAVE BEEN CONSIDERED IN THIS MANAGEMENT PLAN. EACH YEAR, AS WORK PROGRESSES AND

RESOURCES CHANGE, THE YEAR'S WORK PLAN MAY SHIFT SLIGHTLY. HOWEVER, CONSISTENT MANAGEMENT TARGETING PRIORITY SPECIES IN PRIORITY AREAS WILL OFFER THE BEST RESULTS. IT IS ALSO CRITICAL TO KEEP IN THAT INVASIVE SPECIES MANAGEMENT NEEDS TO BECOME AN ONGOING

A.RECOMMENDED INVASIVE SPECIES CONTROL PRIORITIES WITHIN THE PROJECT AREA

2021 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

SPECIES TO WORK ON, SEVERAL FACTORS ARE CONSIDERED INCLUDING:

BASED ON THE IDENTIFIED ECOLOGICAL AND LAND-USE PRIORITIES WITHIN THE SITE AND THE REALITIES OF INVASIVE PLANT CONTROL (AVAILABLE RESOURCES AND KNOWN TECHNIQUES FOR PLANT CONTROL) WE RECOMMEND FOCUSING CONTROL ACTIONS ON THE

MEDIUM PRIORITY

HIGH PRIORITY

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HIGH PRIORITY: PYRUS CALLERYANA LONICERA SPP. MICROSTEGIUM VIMINEUM

MEDIUM PRIORITY: LEUCANTHEMUM VULGARE ANTHOXANTHUM ODORATUM

INVASIVE PLANTS WILL LIKELY CONTINUE TO BE INTRODUCED AND/OR PERSIST IN THIS NATURAL COMMUNITY. IN ORDER TO PREVENT THE FURTHER SPREAD OF EXISTING INVASIVE PLANTS INTO UNINFESTED AREAS, AND TO MANAGE THE LIKELY INTRODUCTION OF NEW SPECIES, IT WILL BE IMPORTANT TO REGULARLY MONITOR THE SITE FOR NEW POPULATION OF INVASIVE SPECIES. SPECIFICALLY: SITE INSPECTIONS SHALL BE CONDUCTED ON A A BI-MONTHLY BASIS, DURING THE GROWING SEASON, TO REVIEW CONTINUED INVASIVE SPECIES PLANT GROWTH. IF INVASIVE SPECIES GROWTH IS OBSERVED, MANUAL/MECHANICAL ERADICATION USING THE TECHNIQUES

le 2: Summary of Annual Weed Management Activities (partial)			
Season	Activity	Equipment	Time
ly Spring arch ough ry):	Small scrub-shrub and herbaceous species: Personnel will hand-pull plants, bag them in industrial sized garbage bags and haul them off-site. Or, personnel will utilizethe specified manual/mechanical eradication methods set forth in this plan. Once plants are fully decomposed, they will be disposed of in municipal trash disposal. Following each hand clearing event boots should be brushed off to prevent the spread of seeds. Composting debris from the removal events will eliminate landfill disposal, however monitoring of the compost site is required to assure reintroduction of invasive species does not occur. The initial removal event should be scheduled at the beginning of the growing season. Woody invasive pulling: Ideal removal intervalfor honeysuckle and other woody invasives due to the high visibilityprior to leaf out of the herbaceous layer. Removed shrubs/vines can be hung in trees to dry or left on the ground to decompose (no off-site disposal is needed). Tree species: This activity should occur in early May when leaves are present. This will allow personnel to successfully identify the invasive tree species. Smaller DBH trees may be removed by manual cutting techniques. Otherwise, a chainsaw should be used to cut down the invasive tree species (no off-site disposal is needed).	Gloves, buckets, "contractor"- sized trash bags to collect and remove plants, lop sheers, rough-cut walk- behind mower and/or a gas- powered hedge trimmer (e.g. Stihl Articulated 23-inch-Long Hedge Trimmer), and chainsaws, herbicide (if needed)	At least four days of labor by 2 people. 2 days for a first pass in March or April, 2 more days for a second pass in early May.
nitoring	Bi-monthly walk throughout the woodland preservation and natural regeneration areas to identify and eradicate	GPS, clipboards,	2 people, 1 day, every two

populations of new invasive plant growth.

POST DEVELOPMENT NOTES

PRUNING AND/OR CUTTING OF TREES.

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

- B. 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 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
- . 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
- D. 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

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 - 018-2021 DRD# Reason for Revision 8/3/2021 DSP-89049-05 N/A

111 South Calvert Street Suite 2700 Baltimore, MD 21202-3200 (410) 385-5266 (877) 567-0143 Fax

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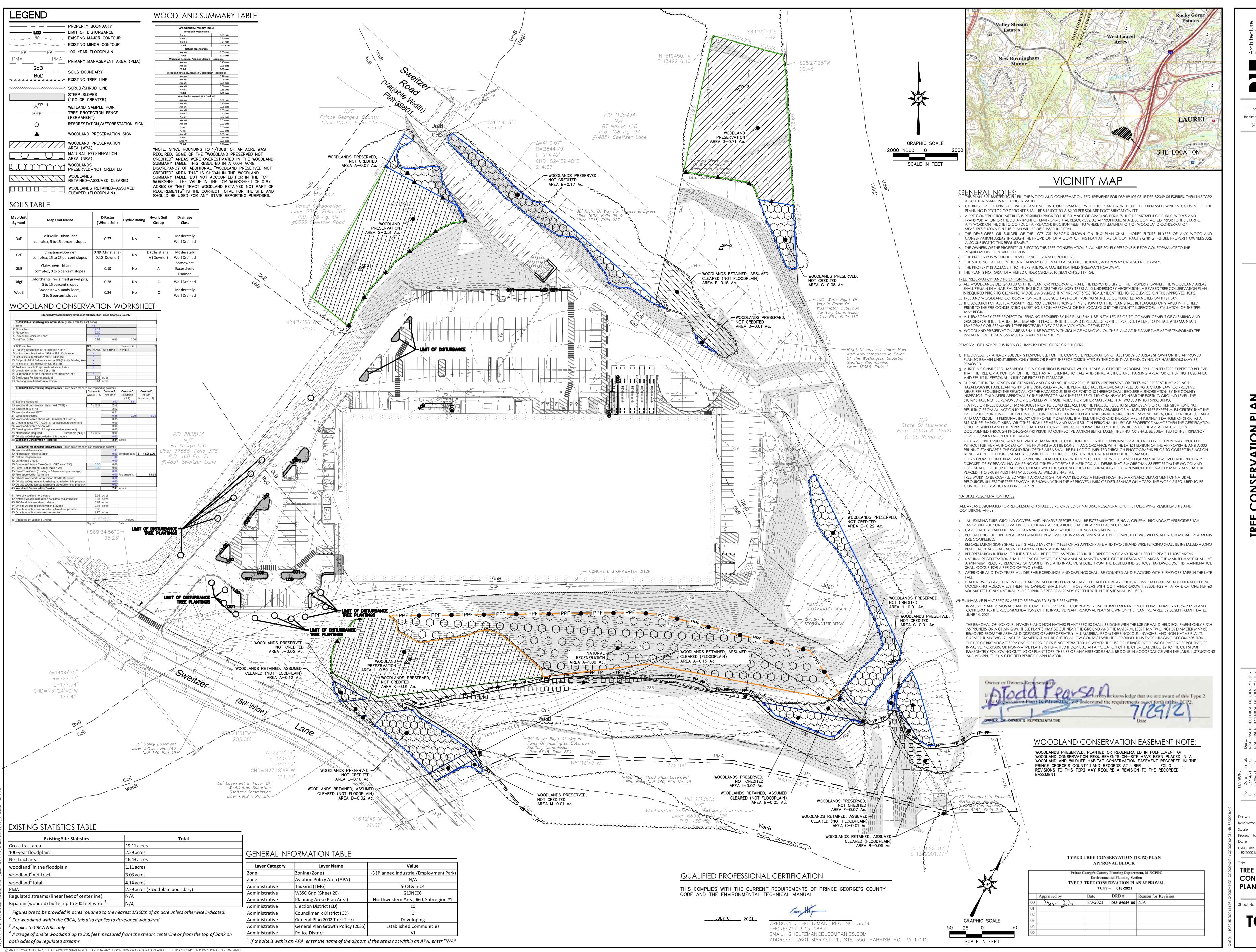
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03/29/2021

CONSERVATION PLAN DETAILS



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Project No. 03/29/2021 EX2000464-01

CONSERVATION PLAN

Sheet No.

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