



SITE MAP (N.T.S.)

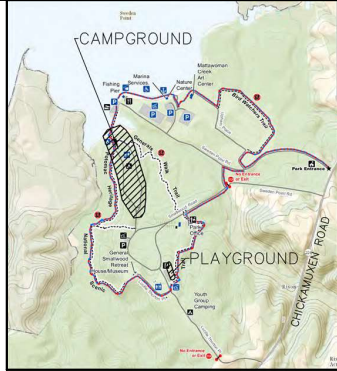


DGS PROJECT NUMBER: P-030-180-002

CAMPGROUND UPGRADES AT SMALLWOOD STATE PARK

CHARLES COUNTY, MARYLAND

100 CD SUBMISSION



VICINITY MAP (N.T.S.)



BOARD OF PUBLIC WORKS

LARRY HOGAN, GOVERNOR

PETER FRANCHOT, COMPTROLLER

NANCY KOPP, TREASURER

STATE OF MARYLAND DEPARTMENT OF GENERAL SERVICES

ELLINGTON E. CHURCHILL, JR., SECRETARY

301 W. PRESTON STREET, BALTIMORE, MARYLAND 21201

DEPARTMENT OF NATURAL RESOURCES

JEANNIE HADDAWAY-RICCIO, SECRETARY

TAWES STATE OFFICE BUILDING C-4

580 TAYLOR AVENUE, ANNAPOLIS, MARYLAND 21401

| CONSULTANTS | | LIST OF DRAWINGS | | ABBREVIATIONS | | GENERAL NOTES | | | |
|--|--|--|------------------------------|--|---|--|---|---|--|
| CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 49194, EXPIRATION DATE 06-17-2022. | CLIENT SPYRIDON PAPADIMAS, PROJECT MANAGER DEPARTMENT OF GENERAL SERVICES 301 W. PRESTON STREET, ROOM 1405 BALTIMORE, MARYLAND 21201 | GENERAL | ARCHITECTURAL | ADA AFF ALUM. C.L. CLG. CMU COL. CONC. CONT. C.J. D DWGS. ELEC. ELEV. E.P. EQ. EXT F.C. FEC FT FIN. FFL GC H H.C. HM HORIZ. HR. | AMERICANS W/DISABILITIES ACT ABOVE FINISHED FLOOR ALUMINUM CENTER LINE CEILING CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS CONTROL JOINT DEEP DRAWINGS ELECTRICAL ELEVATION ELECTRIC PANEL EQUAL EXTERIOR FIRE CODE FIRE EXTINGUISHER CABINET FIRE TREATED FINISH FINISH FLOOR LEVEL GENERAL CONTRACTOR HIGH HANDICAPPED HOLLOW METAL HORIZONTAL HOUR | MECH. MET./MTL. MFR. MIN. MISC. N.I.C. O.C. PLYWD. SCHED. SIM. S.S. STL STR TEMP. THK. TOB TOM TYP. U.N.O. VER. VERT. V.I.F. W W/ W.C. WD. & @ Ø | MECHANICAL METAL MANUFACTURER MINIMUM MISCELLANEOUS NOT IN CONTRACT ON CENTER PLYWOOD SCHEDULE SIMILAR STAINLESS STEEL STEEL STRUCTURE TEMPERED THICK TOP OF BEAM TOP OF MASONRY TYPICAL UNLESS NOTED OTHERWISE VERIFY VERTICAL VERIFY IN FIELD WIDE WITH WHEELCHAIR WOOD AND AT DIAMETER | 1. WHEN INTERPRETING THESE DRAWINGS, PREFERENCE SHALL BE GIVEN IN ALL CASES TO NUMERICAL DIMENSION OVER MEASUREMENTS BY SCALE, AND TO DETAIL DRAWINGS OVER THOSE DRAWINGS OF A SMALLER SCALE. 2. DETAIL DRAWINGS AND SCHEDULES DESCRIBE CONSTRUCTION AT GIVEN AREAS. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL UTILIZE EQUIVALENT CONSTRUCTION METHODS IN ALL AREAS NOT DETAILED. 3. ALL NOTES ON THE DRAWINGS SHALL BE ASSUMED AS TYPICAL UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS. 4. ALL FINISHED DIMENSIONS, UNLESS NOTED OTHERWISE, ARE TO FACE OF FINISHED DRYWALL, FACE OF MASONRY, FACE OF CONCRETE OR CENTERLINE OF STRUCTURAL STEEL COLUMNS, BEAMS, ECT.). 5. IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS FOR CONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK. 6. THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR CORRECTIVE ACTION DUE TO THE CONTRACTORS FAILURE TO COORDINATE THE WORK. 7. THE CONTRACTOR SHALL COMPLY WITH THE CURRENT APPLICABLE CODES, ORDINANCES, LAWS AND OTHER LEGAL REQUIREMENTS OF THE PUBLIC AUTHORITIES HAVING JURISDICTION. 8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ITEMS REQUIRED TO PROVIDE A COMPLETE AND USABLE FACILITY. | 9. ALL BIDDERS: ALL CONTRACTORS AND MAJOR SUBCONTRACTORS SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. 10. DRAWINGS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON ANY OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT. 11. IN THE CASE OF INCONSISTENCY BETWEEN DRAWINGS, DRAWINGS & SPECIFICATIONS, OR SPECIFICATIONS NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FLOOR FINISH MATERIALS TO ENSURE THAT TRANSITIONS BETWEEN FLOORING MATERIALS WILL BE SMOOTH AND IN ACCORDANCE WITH THE DRAWINGS. 13. UNLESS OTHERWISE STATED, CHANGES IN FLOORING MATERIAL SHALL OCCUR AT THE CENTERLINE OF DOORS. 14. IF ARTIFACTS ARE REVEALED AS A RESULT OF CONSTRUCTION ACTIVITY, WORK MUST CEASE AND THE DEPARTMENT OF GENERAL SERVICES SHALL BE NOTIFIED IMMEDIATELY. 15. IF IN THE COURSE OF THE WORK HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK AND NOTIFY OWNER AND ARCHITECT IMMEDIATELY. |
| | CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 14479, EXPIRATION DATE 06-22-2021. | LANDSCAPE AND ENVIRONMENTAL DESIGN NORTON LAND DESIGN 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLCOTT CITY, MD 21042 (443) 542-9119 | CIVIL | STRUCTURAL | BUILDING STATISTICS BUILDING CODES 2018 INTERNATIONAL BUILDING CODE (IBC) USE GROUP= B, BUSINESS CONSTRUCTION TYPE = 5B, UNPROTECTED NO. OF STORIES = 1 ACTUAL AREA = 882 GSF AREA/OCCUPANT = 100 GSF OCCUPANT LOAD = 9 ACCESSIBILITY HAS BEEN DESIGNED TO MEET COMAR 05.2.02 AND THE 2010 ADA GUIDELINES. | | SYMBOLS KEY 11 1'-0" A.F.F., CEILING HEIGHT AND TYPE 101 DOOR TAG 11 WINDOW TAG 1 SIM ELEVATION/SECTION CALLOUT Name Elevation Room name ROOM INDICATOR | | |
| | CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 17655, EXPIRATION DATE 01-11-2022. | STRUCTURAL ENGINEER COLUMBIA ENGINEERING, INC. 6210 OLD DOBBIN LANE COLUMBIA, MARYLAND 21045 (410) 992-9970 | MECHANICAL / PLUMBING | ELECTRICAL | | | | | |
| CERTIFICATION: THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 15453, EXPIRATION DATE 06-25-2022. | MECHANICAL/ELECTRICAL ENGINEER KIBART CONSULTING ENGINEERS 901 DULANEY VALLEY ROAD, SUITE 301 TOWNSON, MARYLAND 21204 (410) 494-1111 | LANDSCAPE | ELECTRICAL | | | | | | |
| | ARCHITECTURE AND INTERIOR DESIGN WHEELER GOODMAN MASEK, INC. ONE ANNAPOLIS STREET # 100 ANNAPOLIS, MARYLAND 21401 (410) 263-6787 | LANDSCAPE | ELECTRICAL | | | | | | |
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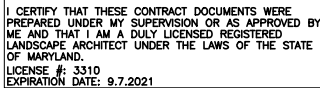
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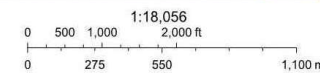
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L-2.0
1 OF 4 SHEETS

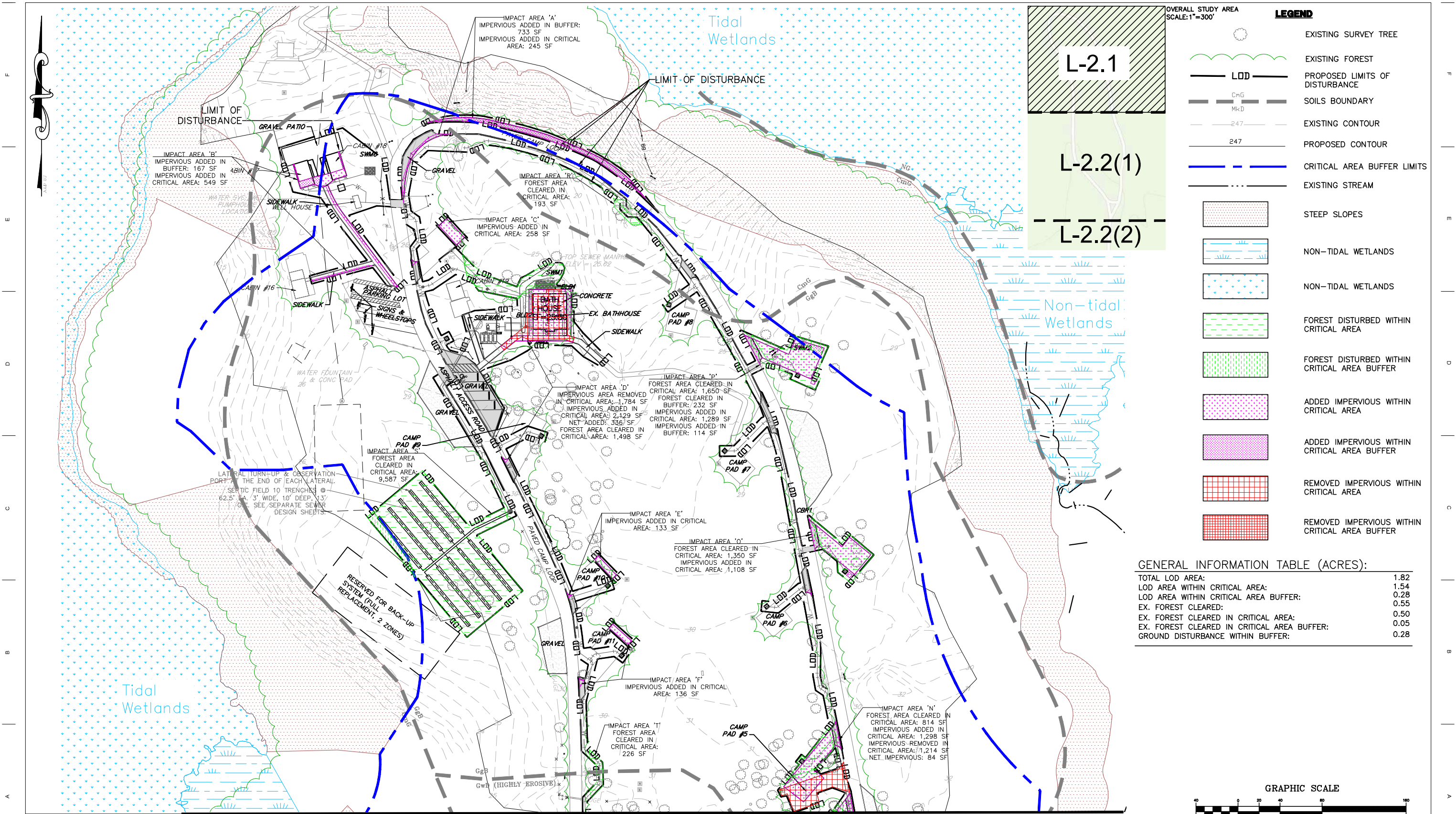
The map displays the Smallwood State Park & Campground area. The study area is highlighted in yellow, and the mitigation area is highlighted in blue. The map includes labels for various roads and landmarks, such as Smallwood State Park & Campground, Smallwood State Park, and various roads like Turner Cr, Archer Ave, and Ryeon.

— Critical Area Boundary (Approximate)

 Charles County Tax Parcel Data



VITA, Esri, HERE, IPC, MNCPPC, VITA, Esri, HERE, Garmin,
INCREMENT P. USGS, METI/NASA, EPA, USDA



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DGS PROJECT NUMBER: P-030-180-002

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT ADMINISTRATOR DATE
DIRECTOR ENGR. & CONST. DATE

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CRITICAL AREA IMPACTS PLAN

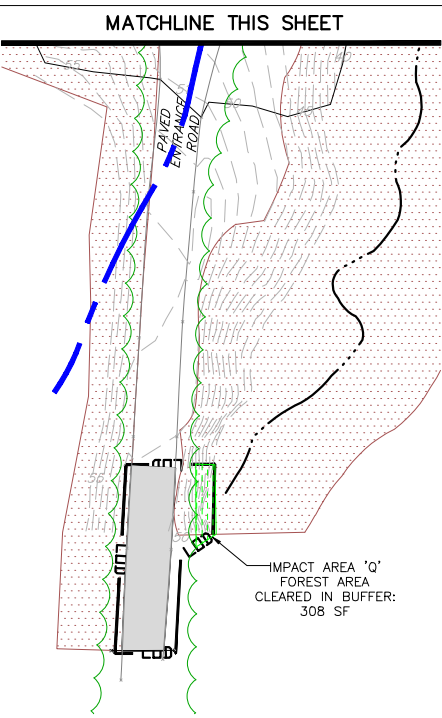
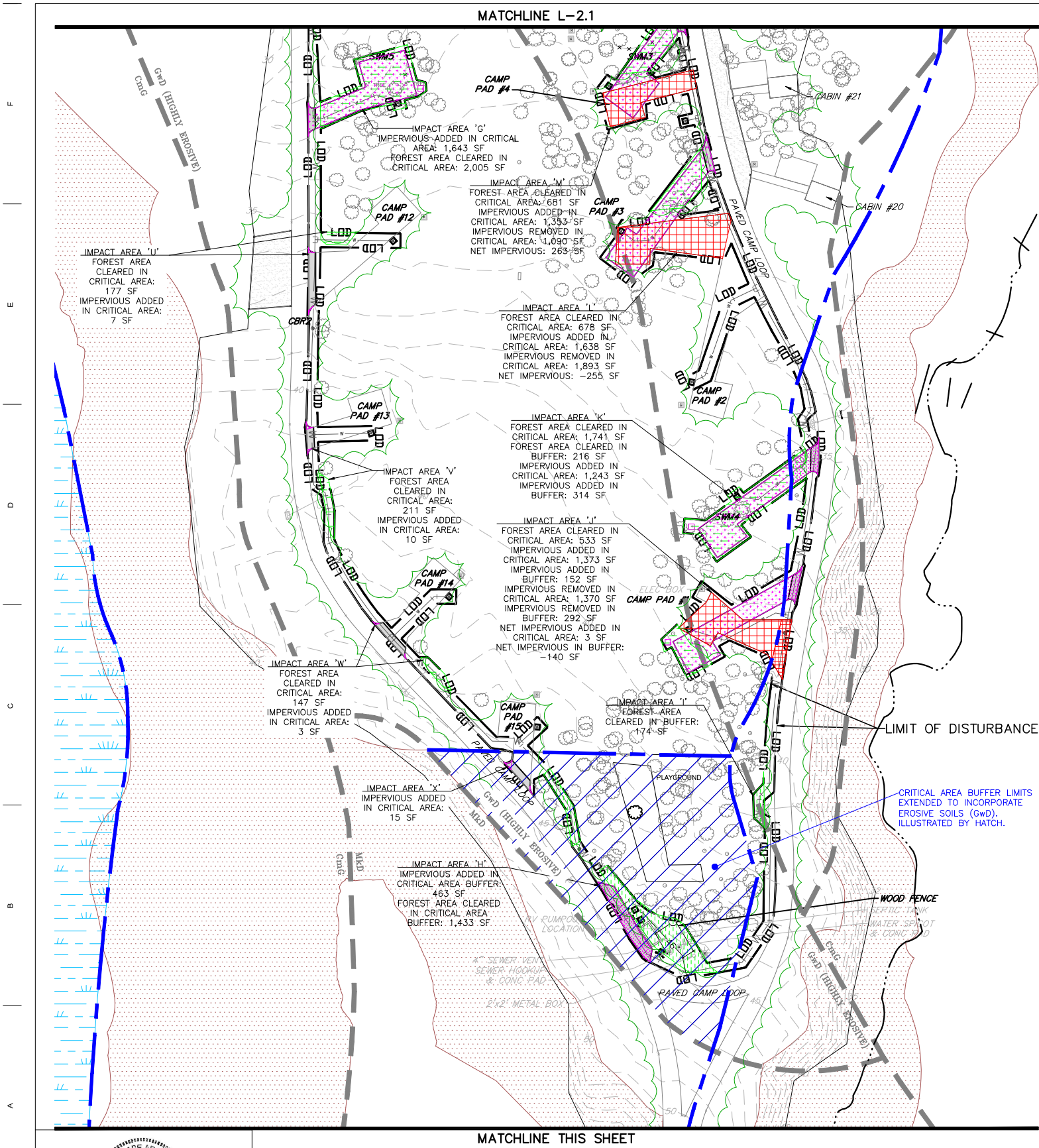
CAMPGROUND UPGRADES AT SMALLWOOD STATE PARK

SMALLWOOD STATE PARK
CHARLES COUNTY, MARYLAND

DATE 03.05.2021

DWG. NO.

L-2.1
2 OF 4 SHEETS



OVERALL STUDY AREA
SCALE: 1"=300'

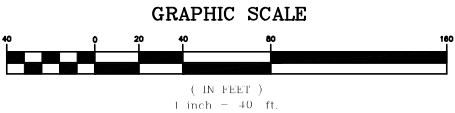
LEGEND

- EXISTING SURVEY TREE
- EXISTING FOREST
- PROPOSED LIMITS OF DISTURBANCE
- SOILS BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CRITICAL AREA BUFFER LIMITS
- EXISTING STREAM
- STEEP SLOPES
- NON-TIDAL WETLANDS
- NON-TIDAL WETLANDS
- FOREST DISTURBED WITHIN CRITICAL AREA
- FOREST DISTURBED WITHIN CRITICAL AREA BUFFER
- ADDED IMPERVIOUS WITHIN CRITICAL AREA
- ADDED IMPERVIOUS WITHIN CRITICAL AREA BUFFER
- REMOVED IMPERVIOUS WITHIN CRITICAL AREA
- REMOVED IMPERVIOUS WITHIN CRITICAL AREA BUFFER
- EXPANDED CRITICAL AREA BUFFER LIMIT

| SMALLWOOD CAMPGROUND IMPROVEMENTS IMPACTS TABLE | | | |
|---|-----------------------|-----------------------|-----------------------|
| IMPACT TYPE | CA BOUNDARY | CA BUFFER | TOTAL |
| GROUND DISTURBANCE | 66903 SF/ 1.54 AC | 12,377 SF/ 0.28 AC | 79,280 SF/ 1.82 AC |
| FOREST CANOPY REMOVED | 21,489 SF/ 0.50 AC | 2363 SF/ 0.05 AC | 23,852 SF/ 0.55 AC |
| INDIVIDUAL TREES REMOVED | *18 | *2 | *20 |
| PROPOSED IMPERVIOUS SURFACE | 14,430 SF/ 0.33 AC | 1,942 SF/ 0.04 AC | 16,372 SF/ 0.37 AC |
| EXISTING IMPERVIOUS TO BE REMOVED | 7,351 SF/ 0.17 AC | 292 SF/ 0.01 AC | 7,643 SF/ 0.18 AC |
| NET ADDITIONAL IMPERVIOUS | 7,079 SF/ 0.16 AC | 1,650 SF/ 0.03 AC | 8,729 SF/ 0.19 AC |

*BASED ON SURVEY TREES PROVIDED BY DNR ONLY. A MORE ACCURATE NUMBER SHALL BE PROVIDED AFTER FORMAL TREE INVENTORY IS PERFORMED.

| SOILS MAP UNIT LEGEND | |
|-----------------------------------|---|
| Map Unit Symbol | Map Unit Name |
| CmG | Croom-Marr complex, 25 to 60 percent slopes |
| GgB | Grostown gravelly silt loam, 2 to 5 percent slopes |
| GwD -HIGHLY EROSION -HYDRIC | Grostown-Woodstown-Beltsville complex, 5 to 15 percent slopes |
| MkD | Marr-Beltsville complex, 5 to 15 percent slopes |
| NG -HYDRIC | Nanticoke and Mannington soils, frequently flooded |
| PcA -HYDRIC | Piccowaxen loam, 0 to 2 percent slopes |



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DIRECTOR ENGR. & CONST. DATE

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REVISIONS

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CRITICAL AREA IMPACTS PLAN

CAMPGROUND UPGRADES AT
SMALLWOOD STATE PARK

SMALLWOOD STATE PARK
CHARLES COUNTY, MARYLAND

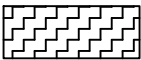
DATE 03.05.2021

DWG. NO.

L-2.2
3 OF 4 SHEETS

SEE SHEET L-2.0 FOR LOCATION RELATIVE TO THE STUDY AREA

LEGEND



REFORESTATION AREA



REFORESTATION AREA SIGNAGE
TO BE PLACED 50' O.C.
ALONG EXPOSED PERIMETER



REFORESTATION AREA 1:
32,594 SF/ 0.74 AC

GRAPHIC SCALE

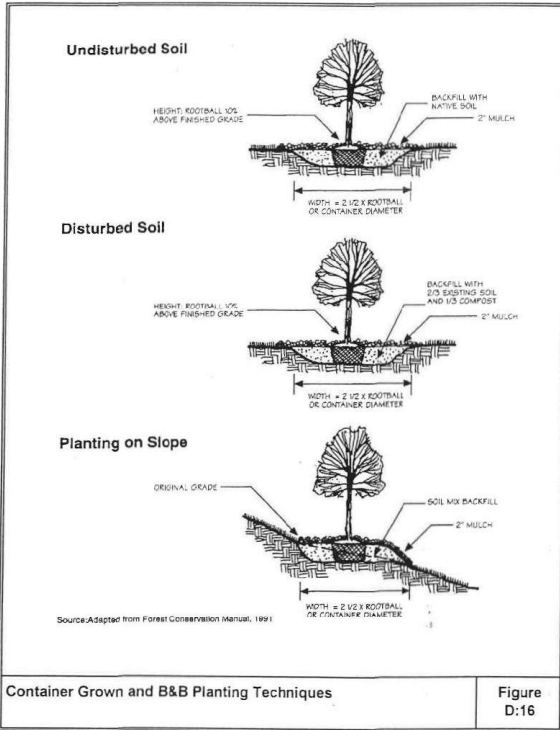


MITIGATION REQUIREMENT CALCULATIONS (ACRES):

| | |
|--|------|
| TOTAL FOREST CLEARED IN CRITICAL AREA: | 0.50 |
| TOTAL IMPERVIOUS ADDED IN CRITICAL AREA: | 0.16 |
| MITIGATION REQUIRED FOR CRITICAL AREA IMPACTS: | 0.66 |

| | |
|---|------|
| TOTAL FOREST CLEARED IN CRITICAL AREA BUFFER: | 0.05 |
| TOTAL IMPERVIOUS ADDED IN CRITICAL AREA BUFFER: | 0.03 |
| MITIGATION REQUIRED FOR CRITICAL AREA BUFFER IMPACTS: | 0.08 |

NET TOTAL OF MITIGATION REQUIRED: 0.74 ACRES



ERADICATION AND CONTROL OF COMPETING VEGETATION
IN REFORESTATION AREA

- ERADICATION EFFORTS ARE AIMED AT THE REMOVAL OF INVASIVE, EXOTIC SPECIES (TARGET SPECIES) WHICH DISPLACE OR PREVENT THE ESTABLISHMENT OF NATIVE FORESTS. ON THIS SITE, ERADICATION EFFORTS ARE FOCUSED PRIMARILY UPON FIELD GRASSES THAT MAY INHABIT THE REFORESTATION AREA AT THIS TIME.
- ERADICATION EFFORTS SHALL INCLUDE THE INITIAL REMOVAL OR TREATMENT OF THE TARGET SPECIES AND THE MAINTENANCE REQUIRED TO CONTROL REGROWTH. IMPLEMENTATION AND CHOICE OF TREATMENT AND METHOD SHALL BE SUCH THAT NEITHER THE INVASIVE SPECIES NOR THE METHOD OF CONTROL ADVERSELY AFFECTS THE ESTABLISHMENT AND SURVIVAL OF NATIVE SPECIES. THE TARGET SPECIES ARE PERSISTENT AND TOTAL ERADICATION MAY NOT BE PRACTICAL OR REQUIRED. THE GOAL IS TO SUPPRESS THE TARGET SPECIES TO ALLOW THE NATIVE SPECIES TO FORM A DENSE CANOPY. THE ADDITIONAL SHADE WILL THEN MANAGE THE REGROWTH OF THE TARGET SPECIES. QUESTIONS REGARDING THE APPROPRIATENESS, OR EXTENT OF CONTROL, WILL BE AT THE DISCRETION OF THE MARYLAND DEPT. OF NATURAL RESOURCES INSPECTOR; HOWEVER, A MINIMUM OF FOUR (4) APPLICATIONS OR TREATMENTS SHALL BE MADE DURING THE 2 YEAR PERIOD.
- ERADICATION AREAS ARE DENOTED ON THIS SHEET. ERADICATION AND CONTROL EFFORTS SHALL TAKE PLACE WITHIN PROPOSED THE REFORESTATION AREA.
- INITIAL REMOVAL AND TREATMENT OF THE TARGET SPECIES MUST OCCUR PRIOR TO PLANTING THE REFORESTATION AREA.
- TARGET VEGETATION WITHIN THE ERADICATION AREA SHALL BE CLEARLY FLAGGED BY THE LANDSCAPE CONTRACTOR, AND APPROVED BY MARYLAND DEPT. OF NATURAL RESOURCES INSPECTOR, WITH SURVEYOR'S RIBBON, OR OTHERWISE IDENTIFIED, SO AS TO PREVENT REMOVAL OF DESIRABLE SPECIES ALONG WITH THE TARGET SPECIES.

- ERADICATION AND CONTROL OF THE TARGET SPECIES SHALL BE BY MECHANICAL MEANS ONLY. MECHANICAL CONTROLS INCLUDE MOWING OR CHOPPING AT OR NEAR THE GROUND LEVEL, OR THE REMOVAL OF THE PLANT BY DIGGING, OR PULLING.

MOWING OR CHOPPING WILL LIKELY RESULT IN REGROWTH FROM STUMP OR ROOT SPROUTS WHICH MUST ALSO BE TREATED. REMOVAL OF THE ROOTS BY SOME MEANS OF EXCAVATION WILL DISTURB THE SOIL AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. HOLES CREATED BY THE REMOVAL OF ROOTS ARE TO BE FILLED WITH TOPSOIL. ALL BARE GROUND AREAS RESULTING FROM MECHANICAL CONTROL METHODS ARE TO BE IMMEDIATELY STABILIZED. DISTURBED AREAS WITH SUFFICIENT LIGHT SHALL BE SEED PER THE IMPROVEMENT PLAN SPECIFICATIONS. DENSELY SHADED AREAS SHALL BE MULCHED WITH 2" OF SHADED HARDWOOD MULCH OR WOOD CHIPS. THE USE OF HEAVY EQUIPMENT WITHIN NON WETLAND, FLOODPLAIN AREAS IS PROHIBITED UNLESS THE SOIL IS DRY ENOUGH FOR THE EQUIPMENT TO BE SUPPORTED WITHOUT EXCESSIVE DAMAGE TO THE SOIL OR DESIRABLE GROUND COVER PLANTS. HEAVY EQUIPMENT IS NOT ALLOWED IN WETLANDS OR STREAMS.

- CHEMICAL CONTROLS ARE NOT TO BE UTILIZED ANYWHERE ON SITE. ONLY MECHANICAL MEANS SHALL BE USED TO CONTROL COMPETING VEGETATION.
- BRUSH, ROOT MATS, AND DEBRIS RESULTING FROM MECHANICAL CONTROLS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
- THE CONTRACTOR IS TO CHOOSE THE APPROPRIATE CONTROL MEASURES TO MATCH BOTH LOCAL CONDITIONS AND AVAILABLE SKILLED LABOR SO AS TO MINIMIZE IMPACTS TO THE ENVIRONMENT.
- FOLLOWING INITIAL TREATMENT, THE ERADICATION AREAS SHALL BE MONITORED/INSPECTED AND RE-GROWTH/RE-INFESTATION SHALL BE TREATED AT LEAST TWO (2) ADDITIONAL TIMES PER YEAR DURING THE 2-YEAR MAINTENANCE PERIOD. RE-GROWTH AND RE-INFESTAION SHALL BE TREATED AS INDICATED. MONITORING AND MAINTENANCE ACTIVITIES SHALL BE DOCUMENTED BY MARYLAND DEPT. OF NATURAL RESOURCES AS REQUIRED. ANNUAL INSPECTIONS SHALL OCCUR DURING THE GROWING SEASON AFTER THE 2-YEAR MAINTENANCE PERIOD.

| REFORESTATION PLANT MATERIALS | | | | | | | |
|-------------------------------|------------------|------------------------------|--|------------|-----------|----------------------|-------|
| AREA 1 0.74 AC | TOTAL 0.74 AC | BOTANICAL NAME | COMMON NAME | SIZE | UNIT/ROOT | SPACING | FORM |
| 51 | 51 | Quercus alba (QA) | White Oak | 1" Caliper | Cont. | Randomly 11' O.C. | Tree |
| 51 | 51 | Acer rubrum (AR) | Red Maple | 1" Caliper | Cont. | Randomly 11' O.C. | Tree |
| 55 | 55 | Quercus falcata (QF) | Southern Red Oak | 1" Caliper | Cont. | Randomly 11' O.C. | Tree |
| 51 | 51 | Liriodendron tulipifera (LT) | Tulip Poplar | 1" Caliper | Cont. | Randomly 11' O.C. | Tree |
| 51 | 51 | Celtis occidentalis (CO) | Common Hackberry | 1" Caliper | Cont. | Randomly 11' O.C. | Tree |
| 25 | 25 | Vaccinium corymbosum (VC) | Hibush Blueberry | 18" Height | Cont. | Randomly 33' O.C. | Shrub |
| 25 | 25 | Hamamelis virginiana (HV) | Witch Hazel | 36" Height | Cont. | Randomly 33' O.C. | Shrub |
| 259 | 259 | | | | | | |
| 60 LBS | 60 LBS | | Slyva Field and Forest Mix or Earnst Native Upland Wildlife Forage and Cover Meadow Mix: or equivalent | - | - | 80 LBS. PER ACRE | SEED |
| 26 LBS | 26 LBS | | Companion Seed Mix of 50% Annual Ryegrass 25% Redtop Grass 25% sheep Fescue | - | - | 8 LBS. PER 10,000 SF | SEED |

NOTES:

- TREE QUANTITIES FOUND BY USING A 350 TREE/ACRE RATE.
- A MINIMUM OF 90% SURVIVAL AFTER 2 YEARS OF GROWING SEASON (MIN. FINANCIAL ASSURANCE PERIOD) IS REQUIRED FOR THE REFORESTATION AREA SHOWN. STABILIZE DISTURBED OR BARE AREAS WITH NATIVE MIX INDICATED AND COMPANION SEED MIX.
- ALL PLANTS SHALL BE MONITORED AND WATERED FOR A TWO YEAR PERIOD AS REQUIRED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WATERING AS REQUIRED.

PLANTING SCHEDULE

| TASKS | MONTHS | | | | | | | | | | | |
|---------------------------------|--------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC |
| TRANSPLANT OF 2" DBH OR GREATER | | | | | | | | | | | | |
| PLANTING SEEDLINGS, WHIPS | | | | | | | | | | | | |
| MINIMUM MONITORING | | * | | | | | * | | | * | | |
| FERTILIZER * (IF NEEDED) | | | | | | | | | | | | |
| WATER ** | | | | | | | | | | | | |
| PRUNING | | | | | | | | | | | | |

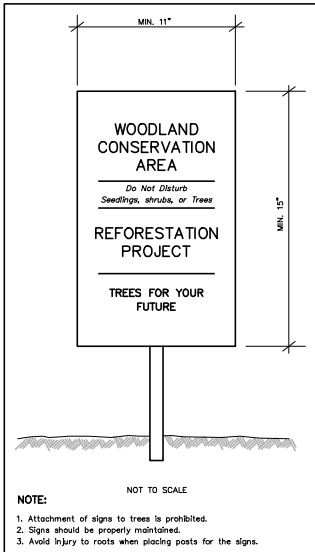
KEY

- * ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS
- GREATLY RECOMMENDED
- RECOMMENDED WITH ADDITIONAL CARE
- RECOMMENDED
- * DEPENDENT UPON SITE CONDITIONS
- ** DEPENDENT UPON SITE CONDITIONS; WEEKLY WATERING IS GREATLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

NOTES:

The planting and care of trees is most successful when coordinated with the local climatic conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.

REFORESTATION SIGNAGE



NOTE:

- Attachment of signs to trees is prohibited.
- Signs should be properly maintained.
- Avoid injury to roots when placing posts for the signs.



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|-------------------------|------|
| DIRECTOR ENGR. & CONST. | DATE |

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| 02.24.20 | DD SUBMISSION |
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FOREST MITIGATION PLANTING PLAN

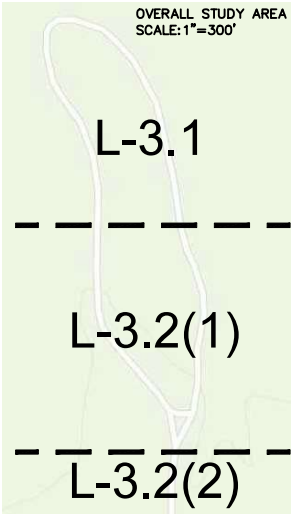
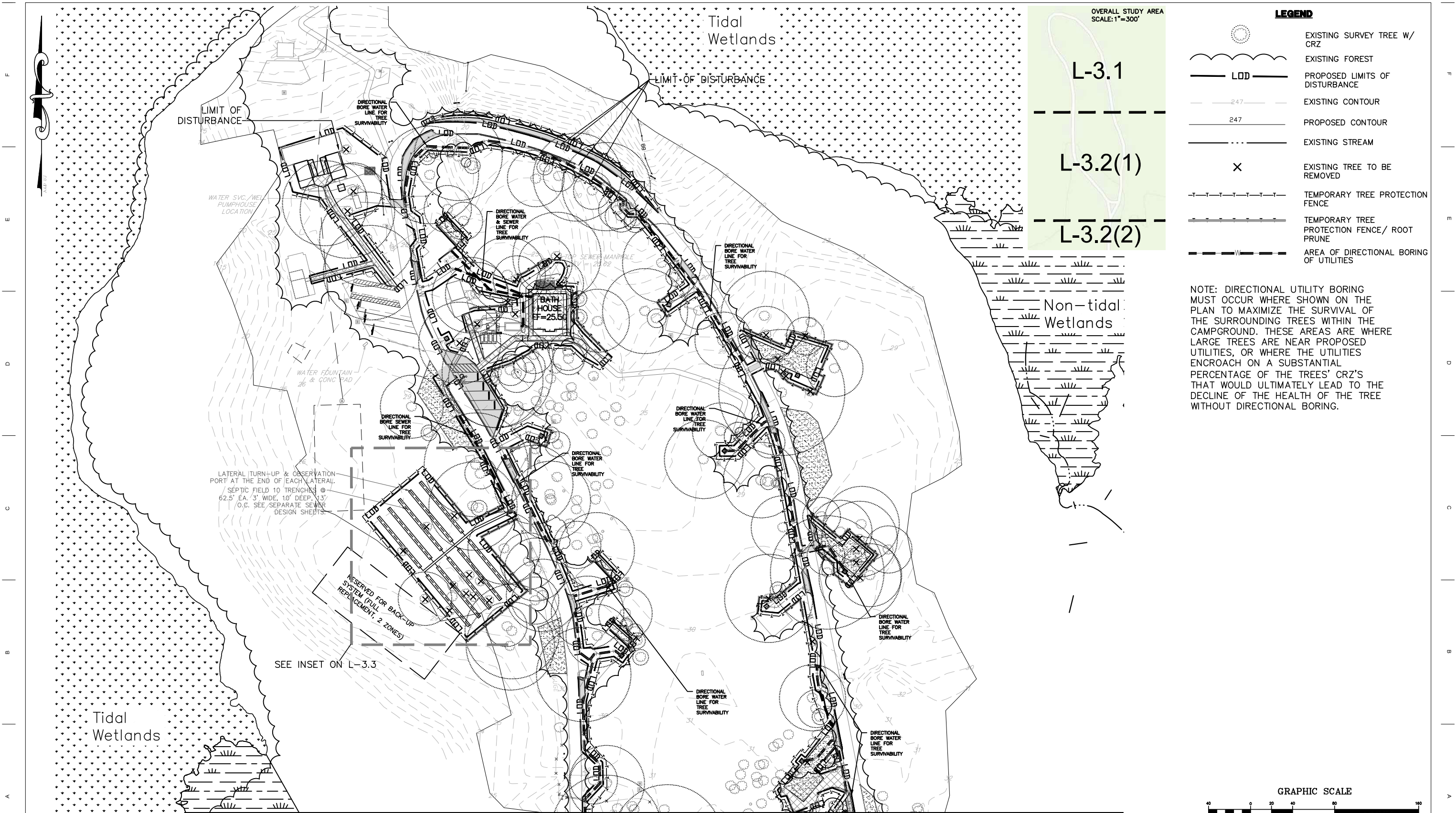
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SMALLWOOD STATE PARK

SMALLWOOD STATE PARK
CHARLES COUNTY, MARYLAND

DATE 03.05.2021

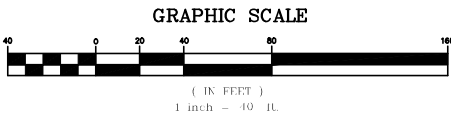
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L-2.3
4 OF 4 SHEETS



- LEGEND**
- EXISTING SURVEY TREE W/ CRZ
 - EXISTING FOREST
 - PROPOSED LIMITS OF DISTURBANCE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING STREAM
 - EXISTING TREE TO BE REMOVED
 - TEMPORARY TREE PROTECTION FENCE
 - TEMPORARY TREE PROTECTION FENCE/ ROOT PRUNE
 - AREA OF DIRECTIONAL BORING OF UTILITIES

NOTE: DIRECTIONAL UTILITY BORING MUST OCCUR WHERE SHOWN ON THE PLAN TO MAXIMIZE THE SURVIVAL OF THE SURROUNDING TREES WITHIN THE CAMPGROUND. THESE AREAS ARE WHERE LARGE TREES ARE NEAR PROPOSED UTILITIES, OR WHERE THE UTILITIES ENCROACH ON A SUBSTANTIAL PERCENTAGE OF THE TREES' CRZ'S THAT WOULD ULTIMATELY LEAD TO THE DECLINE OF THE HEALTH OF THE TREE WITHOUT DIRECTIONAL BORING.



MATCHLINE L-3.2



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TREE PROTECTION PLAN

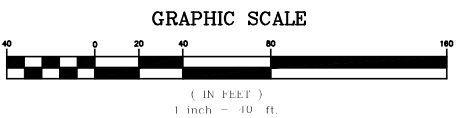
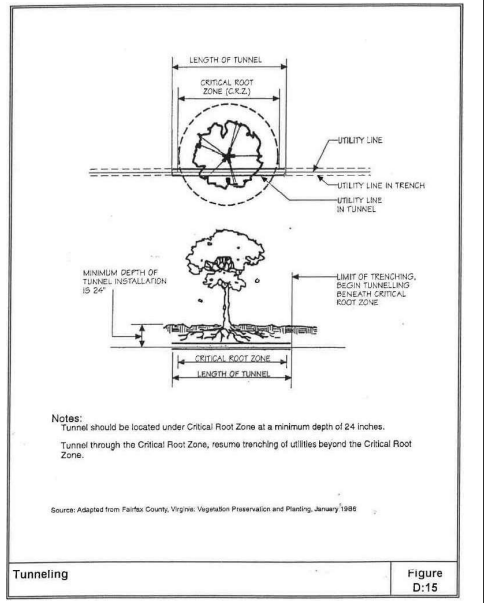
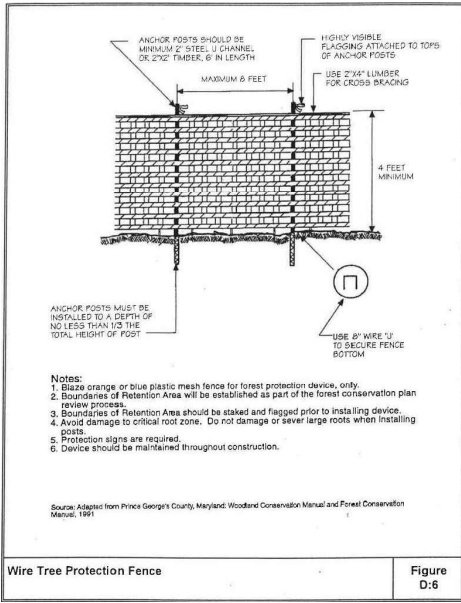
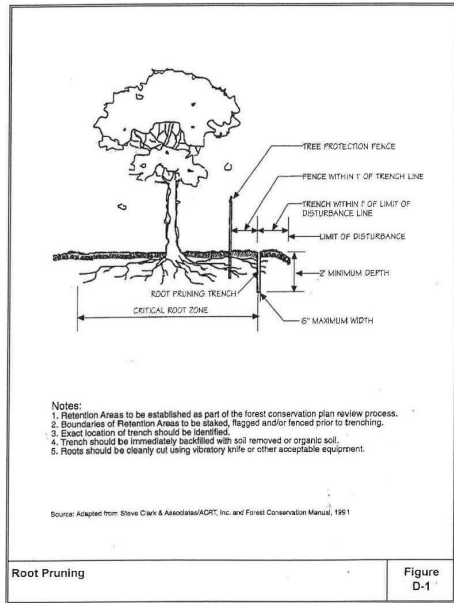
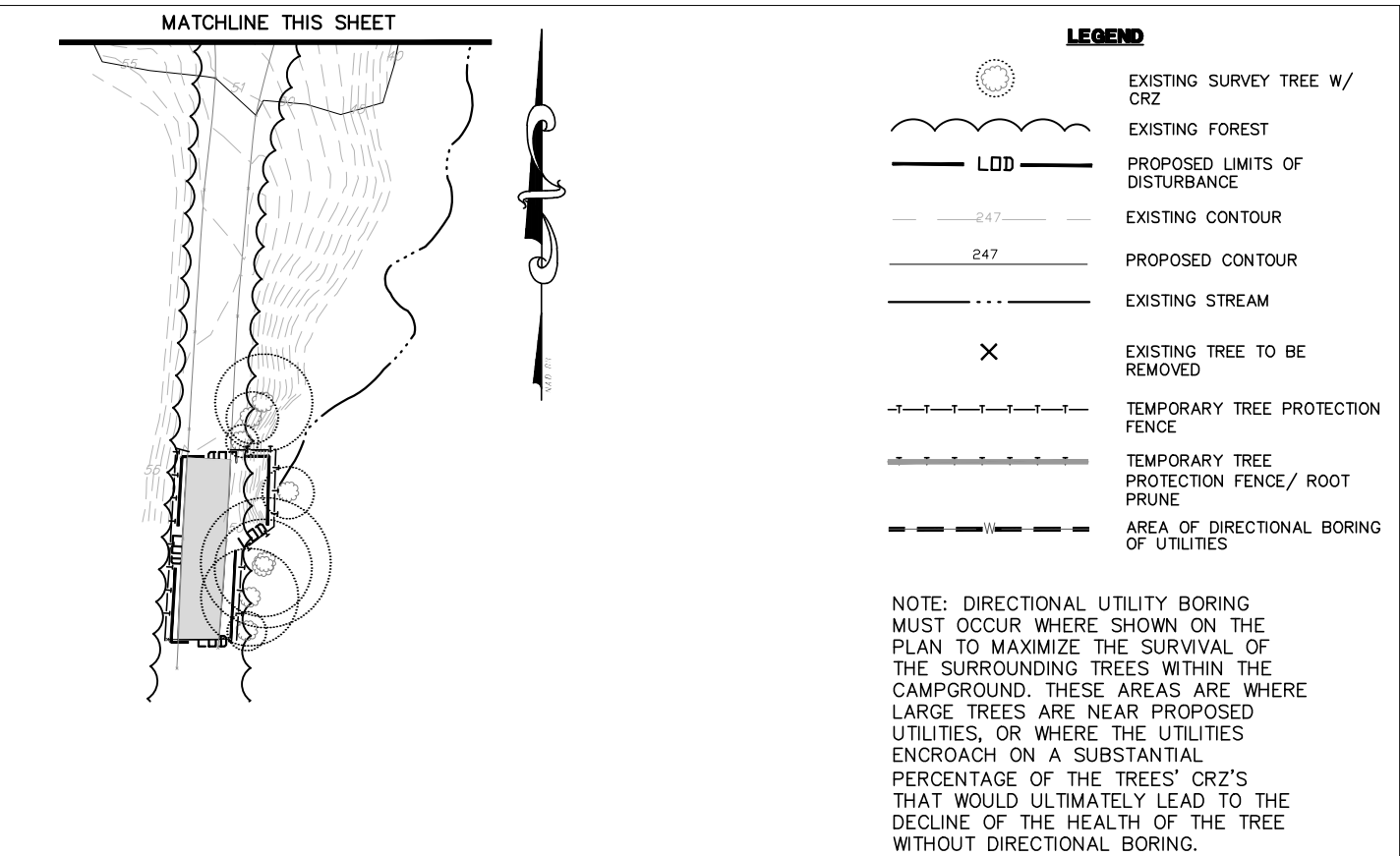
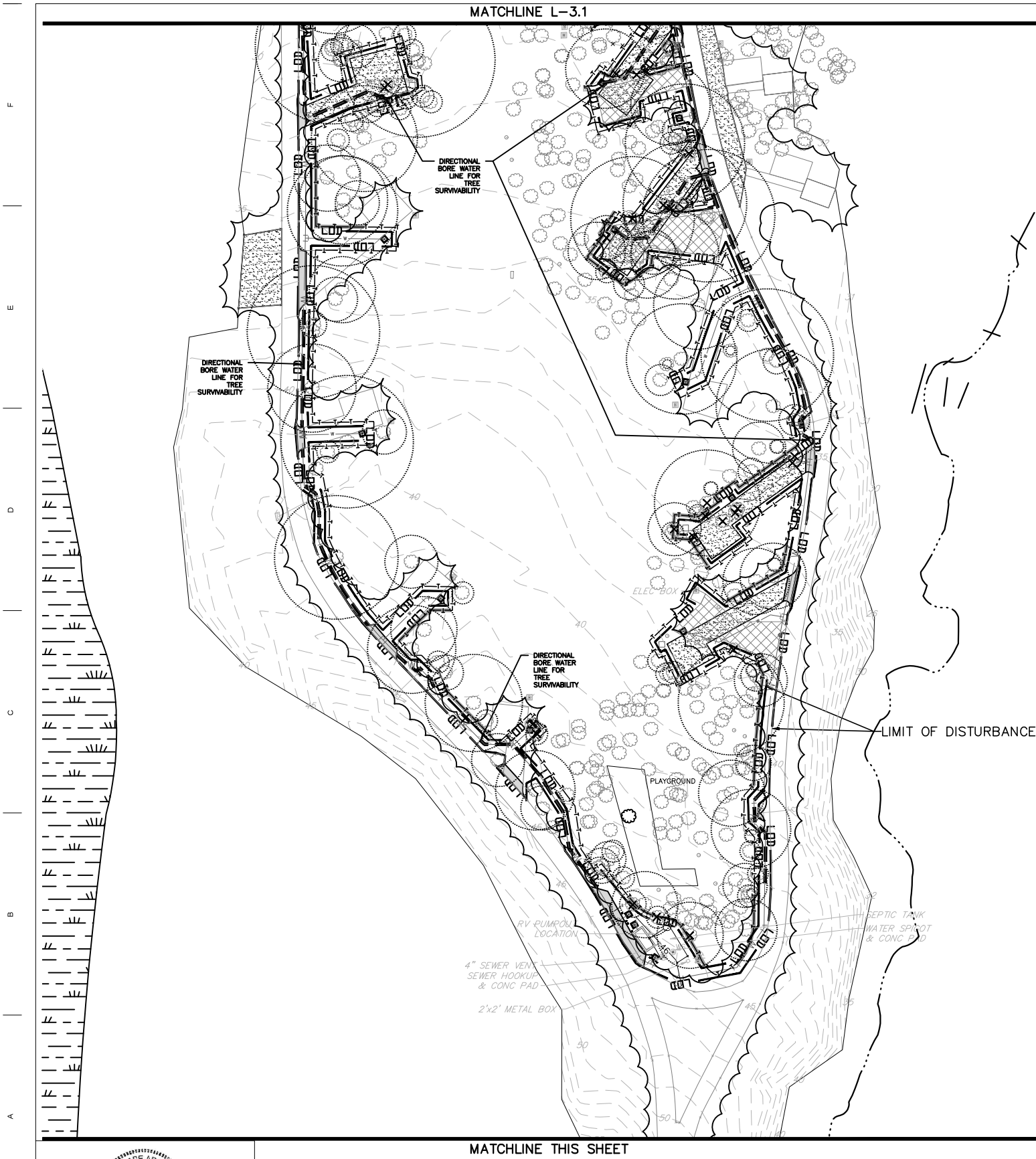
CAMPGROUND UPGRADES AT
SMALLWOOD STATE PARK

SMALLWOOD STATE PARK
CHARLES COUNTY, MARYLAND

DATE 03.05.2021

DWG. NO.

L-3.1
1 OF 3 SHEETS



I CERTIFY THAT THESE CONTRACT DOCUMENTS WERE PREPARED UNDER MY SUPERVISION OR AS APPROVED BY ME AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE #: 3310
EXPIRATION DATE: 9.7.2021

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NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
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P.443.542.9119
ELLICOTT CITY, MD 21042
WWW.NORTONLANDDESIGN.COM

USING AGENCY APPROVAL

NAME DATE
TITLE

DGS PROJECT NUMBER: P-030-180-002

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT ADMINISTRATOR DATE
DIRECTOR ENGR. & CONST. DATE

| NO. | DATE | REVISIONS |
|----------|------|--------------------|
| 02.24.20 | | DD SUBMISSION |
| 09.30.20 | | 95% CD SUBMISSION |
| 03.05.21 | | 100% CD SUBMISSION |

TREE PROTECTION PLAN
CAMPGROUND UPGRADES AT SMALLWOOD STATE PARK

SMALLWOOD STATE PARK
CHARLES COUNTY, MARYLAND

DATE 03.05.2021

DWG. NO.

L-3.2
2 OF 3 SHEETS