

ISLE OF WIGHT COUNTY STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (3RD EDITION, 1992) AND THE ISLE OF WIGHT COUNTY EROSION AND SEDIMENT CONTROL ORDINANCE.
- THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREA WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DENUDED OR DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING AND THE EARLY APPLICATION OF GRAVEL BASE MATERIAL ON AREAS TO BE PAVED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN LAND DISTURBANCE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR SHALL LIMIT SITE ACCESS BY CONSTRUCTION VEHICLES TO ENTRANCES PROTECTED BY A STONE CONSTRUCTION ENTRANCE (VESCH STD. & SPEC. 3.02) OR AN APPROVED COMPARABLE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS ON A DAILY BASIS.
- STOCKPILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST INCLUDING (BUT NOT LIMITED TO) USE OF WATER, MULCH, OR CHEMICAL DUST ADHESIVES AND CONTROL OF CONSTRUCTION SITE TRAFFIC.
- EFFLUENT FROM DE-WATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS OR STORM DRAINAGE SYSTEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION DAMAGE AS DETERMINED NECESSARY BY THE PLAN APPROVING AUTHORITY.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.

RESPONSIBLE LAND DISTURBER

UPON AWARD OF THE CONTRACT, AND BEFORE ANY LAND DISTURBING ACTIVITY CAN BEGIN, THE CONTRACTOR SHALL COMPLETE AND SUBMIT A RESPONSIBLE LAND DISTURBER FORM TO ISLE OF WIGHT COUNTY. THIS INFORMATION WILL ALSO BE SHOWN ON THE COVER SHEET OF THE APPROVED PLAN. ANY STATUS CHANGES TO THE RLD SHOULD BE REPORTED TO THE STORMWATER DIVISION AND A NEW FORM COMPLETED.

THE CONTRACTOR SHALL MAINTAIN ANY AND ALL E&S MEASURES, INSTALLED BY SEPARATE CONTRACTS THAT EXIST PRIOR TO OCCUPYING THE SITE FOR THIS CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL REPLACE ANY E&S MEASURE DEEMED UNREPAIRABLE BY THE LOCAL PLAN APPROVING AUTHORITY.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.

PRE-CONSTRUCTION

A PRECONSTRUCTION MEETING IS RECOMMENDED TO HELP MINIMIZE POTENTIAL ISSUES THAT MAY ARISE DURING CONSTRUCTION. PLEASE CONTACT THE ISLE OF WIGHT COUNTY STORMWATER DIVISION AT (757) 365-1659 FOR SCHEDULING.

THE ISLE OF WIGHT COUNTY STORMWATER DIVISION SHOULD BE NOTIFIED ONCE EROSION CONTROL MEASURES ARE IN PLACE TO SCHEDULE AN INITIAL E&S INSPECTION. ANY MEASURES THAT ARE DEEMED INADEQUATE BY INSPECTION STAFF MUST BE CORRECTED BEFORE CONSTRUCTION CAN BEGIN.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VESCH

WETLANDS

WETLANDS EXIST ON THIS SITE. THE WETLAND LIMIT HAS BEEN PREVIOUSLY FLAGGED BY AN ENVIRONMENTAL PROFESSIONAL AS PART OF THE PRE-DESIGN SITE RECONNAISSANCE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLAN AND THE SITE. THE CONTRACTOR SHALL ATTEMPT TO LOCATE THE WETLANDS FLAGS PRIOR TO LAND DISTURBANCE AND ERECT ANY SUCH MONUMENT(S) THE CONTRACTOR DEEMS NECESSARY TO DEMARCAT THE LIMITS OF THE WETLAND FEATURE. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER/SURVEYOR AND REQUEST THE WETLAND LIMIT BE RE-FLAGGED IF THERE IS ANY DOUBT IN THE CONTRACTORS MIND AS TO THE LOCATION OF THE WETLANDS AND THE ASSOCIATED AREAS WHICH ARE NOT PERMITTED TO BE DISTURBED. WETLANDS SHALL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES UNLESS SPECIFICALLY INDICATED ON THE APPROVED PLAN AND AUTHORIZED BY A WETLAND PERMIT.

A PERMIT TO DISTURB A PORTION OF THE WETLANDS ON THE SITE HAS BEEN OBTAINED TO ALLOW NECESSARY ENCRoACHMENT INTO THE WETLANDS FOR VERY SPECIFIC AREAS AND ACTIVITIES ON THE SITE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLAN, THE SITE AND THE PERMIT. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER/SURVEYOR AND REQUEST THE LIMITS OF PERMITTED DISTURBANCE BE FLAGGED AND/OR RE-FLAGGED IF THERE IS ANY DOUBT IN THE CONTRACTORS MIND AS TO THE LOCATION OF THE WETLANDS AND THE ASSOCIATED AREAS WHICH ARE PERMITTED TO BE DISTURBED.

IT IS THE CONTRACTORS RESPONSIBILITY TO RESPECT AND MAINTAIN THE LIMITS OF THE WETLANDS AND THE CONDITIONS OF ANY ASSOCIATED WETLAND PERMITS AND TO PREVENT IMPACT TO AND MAINTAIN SAME DURING THE LIFE OF THE CONTRACT AND UNTIL FINAL ACCEPTANCE.

IT IS THE CONTRACTORS RESPONSIBILITY TO RESTORE ANY AREAS OF TEMPORARY WETLAND IMPACTS AT THE COMPLETION OF CONSTRUCTION, INCLUDING REMOVING TEMPORARY FILL IN ITS ENTIRETY AND RETURNING THE AFFECTED AREAS TO PRE-CONSTRUCTION ELEVATIONS, LOOSENING THE SOIL SURFACE BY RIPPING OR CHISEL PLOWING TO A DEPTH OF 8"-12", AND SEEDING THE AFFECTED AREAS USING NATIVE WETLAND SPECIES.

TREE AND SHRUB PROTECTION

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE PROTECTION OF ALL TREES AND SHRUBS IS HIS RESPONSIBILITY. IN SOME CASES, EXISTING VEGETATION CREDITS HAVE BEEN UTILIZED TO MEET VARIOUS STORMWATER, OPEN SPACE AND LANDSCAPING REQUIREMENTS OF LOCAL ORDINANCES. RETENTION OF EXISTING LANDSCAPING, MINIMIZATION OF IMPERVIOUS COVER AND PRESERVATION OF NATURAL TREE STANDS MAY BE A CONDITION OF PLAN APPROVAL.

AFTER THE CONSTRUCTION LIMITS HAVE BEEN ESTABLISHED, THE CONTRACTOR SHALL FLAG THE LIMITS OF TREES AND SHRUBS SHOWN ON THE DRAWINGS TO BE REMOVED. ALL OTHER TREES, SHRUBS AND NATURAL AREAS ARE TO REMAIN UNDISTURBED. ONCE FLAGGED, IF THE CONTRACTOR ENCOUNTERS VEGETATION THAT CONFLICTS WITH CONSTRUCTION, THE CONTRACTOR WILL CONDUCT A MEETING WITH THE ENGINEER AND OWNER/DEVELOPER TO EVALUATE THE APPROPRIATE COURSE OF ACTION.

PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION, PROTECTION BARRIERS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH VESCH STANDARDS TO PREVENT DAMAGE TO INDIVIDUAL TREES AND SHRUBS AND THEIR ROOT SYSTEMS DESIGNATED TO REMAIN. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT ARE TO BE RESTRICTED TO AVOID SOIL COMPACTION.

INITIAL WORK PROGRESSION

AREAS THAT ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED BY FENCING, FLAGS, SIGNS, ETC.

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION.

CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE. SEE THE ATTACHED SEQUENCE OF CONSTRUCTION FOR SUGGESTED ORDER OF WORK PROGRESSION AS IT RELATED TO SITE WORK IN GENERAL AND APPLICATION AND INSTALLATION OF STORMWATER AND EROSION AND SEDIMENT CONTROLS SPECIFICALLY.

FINAL STABILIZATION

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS, AND AREAS OTHERWISE TEMPORARILY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.

ALL PERMANENT SEEDING SHALL BE PERFORMED SEPTEMBER 1 THROUGH NOVEMBER 15 AND MARCH 1 THROUGH MAY 15.

IF DISTURBED AREA STABILIZATION IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, STABILIZATION SHALL CONSIST OF MULCHING OR STRAW COVER. SEEDING WILL THEN TAKE PLACE AS SOON AS THE SEASON PERMITS.

ALL AREAS WHICH HAVE NOT DEVELOPED AN EVEN, SATISFACTORY STAND OF GRASS, FREE OF BARE SPOTS, SHALL BE RE-SEED BY THE CONTRACTOR AS DIRECTED BY THE COUNTY'S REPRESENTATIVE. THIS OPERATION SHALL BE REPEATED UNTIL COMPLETE COVERAGE IS OBTAINED.

MAINTENANCE OF ALL LAWN AREAS INCLUDING WATERING, MOWING AND PEST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL APPROVAL AND ACCEPTANCE, WHICH SHALL ONLY BE GIVEN BY THE OWNER/DEVELOPER TO THE CONTRACTOR.

EROSION & SEDIMENT CONTROL NARRATIVE

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING DETAILED 'SEQUENCE OF CONSTRUCTION' TO MINIMIZE EROSION AND PROMOTE STABILIZATION OF AREAS OF THE SITE DURING CONSTRUCTION. THE FOLLOWING CONSTRUCTION SEQUENCE WILL APPLY:

- OBTAIN ALL REQUISITE PERMITS.
- INSTALL SILT FENCE AND INLET PROTECTION AS SHOWN ON THE DEMOLITION / E & S CONTROL PLAN.
- CLEAR AND GRUB THE SITE AS SHOWN ON THE DEMOLITION / E & S CONTROL PLAN. REMOVE ANY EXISTING DEBRIS AS NECESSARY AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL LAW.
- APPLY TEMPORARY SEEDING TO ALL AREAS THAT ARE TO REMAIN DISTURBED MORE THAN 14 DAYS.
- PERFORM ROUGH GRADING OF THE TRAILS AND PARKING LOT.
- INSTALL STONE FOR PARKING LOT AND TRAIL SECTIONS.
- INSTALL ASPHALT PARKING AREAS AND TRAILS.
- FINE GRADE SITE AND APPLY TOPSOIL AND PERMANENT SEED TO ALL DENUDED AREAS.
- INSTALL LANDSCAPING AS SHOWN ON THE LANDSCAPE PLAN.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT AND REPAIRED/CLEANED AS NEEDED.
- ALL REMAINING EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER SATISFACTORY STABILIZATION OF THE SITE AS DETERMINED BY THE COUNTY.

STORMWATER DRAINAGE CONSIDERATIONS

IN ORDER TO MEET THE STORMWATER CONTROL OBJECTIVES OF SITE DEVELOPMENT, THE CONTRACTOR SHOULD MAKE INSTALLATION OF THE PERMANENT STORM DRAIN SYSTEM HIGH PRIORITY AND, WHERE POSSIBLE STAGE, PHASE AND SYNCHRONIZE CLEARING OPERATIONS WITH STORM SYSTEM INSTALLATION.

ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

TEMPORARY DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR, WHEN REQUIRED, TO RELIEVE FLOODED AREAS THAT MAY CAUSE DAMAGE TO THE SITE OR TO RIGHT-OF-WAY. MEASURES REQUIRED TO PROVIDE TEMPORARY DRAINAGE SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL AND INCLUDED WITHIN OTHER BID ITEMS.

CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

ALL EARTHEN SLOPES STEEPER THAN 3:1 SHALL REQUIRE THE USE OF EROSION CONTROL BLANKETS TO AID IN THE ESTABLISHMENT OF VEGETATIVE COVER. INSTALLATION SHALL BE IN ACCORDANCE WITH THE VESCH, AND MANUFACTURER'S INSTRUCTIONS. NO SLOPES SHALL BE CREATED STEEPER THAN 2:1 UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

BEFORE NEWLY CONSTRUCTED CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

ALL STORM SEWER INLETS SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

SITE SPECIFIC EROSION AND SEDIMENT CONTROLS

WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS LARGER LAND-DISTURBING ACTIVITIES.

CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ACCESS ROADS. ALL TRAFFIC IS PROHIBITED FROM CROSSING DRAINAGE SWALES AND STREAMS EXCEPT WHERE ABSOLUTELY NECESSARY.

INTERMEDIATE STABILIZATION PRACTICES

STABILIZATION PRACTICES THAT WILL BE UTILIZED ON THE SITE INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY SEEDING, MULCHING, AND PERMANENT SEEDING. THESE PRACTICES WILL BE IMPLEMENTED AS SOON AS POSSIBLE UPON CESSATION OF CONSTRUCTION ACTIVITIES IN THEIR RESPECTIVE AREAS. IN NO CASE SHALL AN AREA REMAIN UN-STABILIZED MORE THAN 7 DAYS AFTER DISTURBANCE IN THAT AREA HAS ENDED, UNLESS CONSTRUCTION IN THAT AREA IS TO RESUME WITHIN 30 DAYS OF INITIAL CESSATION.

TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN THIRTY (30) DAYS.

WHEN TEMPORARY STABILIZATION IS NEEDED, IT SHALL BE APPLIED IN ACCORDANCE WITH THE VESCH SECTION 3.31 FOR THE COASTAL PLAIN (SOUTH) AREA.

PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.

ONCE THE CLEARING AND FILLING OPERATIONS ARE COMPLETED, PERMANENT STABILIZATION WILL BE APPLIED TO THE ENTIRE SITE IN ACCORDANCE WITH THE VESCH SECTION 3.32 FOR THE COASTAL PLAIN (SOUTH) AREA.

STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIVERSIONS, AND DITCH OR WATERCOURSE BEDS AND BANKS IMMEDIATELY AFTER INSTALLATION.

AREAS WHICH MAY BE ERODED BY RAIN DURING THE PROGRESS OF WORK SHALL BE REPAIRED AND RE-SEED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING ANY SUCH ERODED MATERIAL FROM ADJACENT AREA.

OFF-SITE AND UNSPECIFIED ON-SITE ACTIVITIES

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY OR SHALL SUBMIT EVIDENCE THAT THE OFF-SITE SOURCE AND/OR DISPOSAL AREA HAS PREVIOUSLY BEEN APPROVED FOR THIS USE.

THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.

INSPECTION AND MAINTENANCE OF CONTROLS

EROSION CONTROL MEASURES WILL BE CONSTANTLY MAINTAINED DURING CONSTRUCTION AND ONLY REMOVED ONCE FINAL STABILIZATION OF THE SITE IS ACHIEVED. CONSTRUCTION-PHASE EROSION AND SEDIMENT CONTROLS ARE DESIGNED TO RETAIN SEDIMENT ON SITE TO THE MAXIMUM EXTENT POSSIBLE. THE CONTROL MEASURES SELECTED WILL BE INSTALLED, INSPECTED, AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, COUNTY CODES, THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION, AND GOOD ENGINEERING PRACTICES.

THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE PLAN APPROVING AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

STOCKPILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.

QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT MEASURING 5 INCHES OF RAINFALL OR GREATER. WHERE AREAS HAVE BEEN FINALLY STABILIZED, SUCH INSPECTIONS SHALL BE MADE AT LEAST ONCE EVERY MONTH.

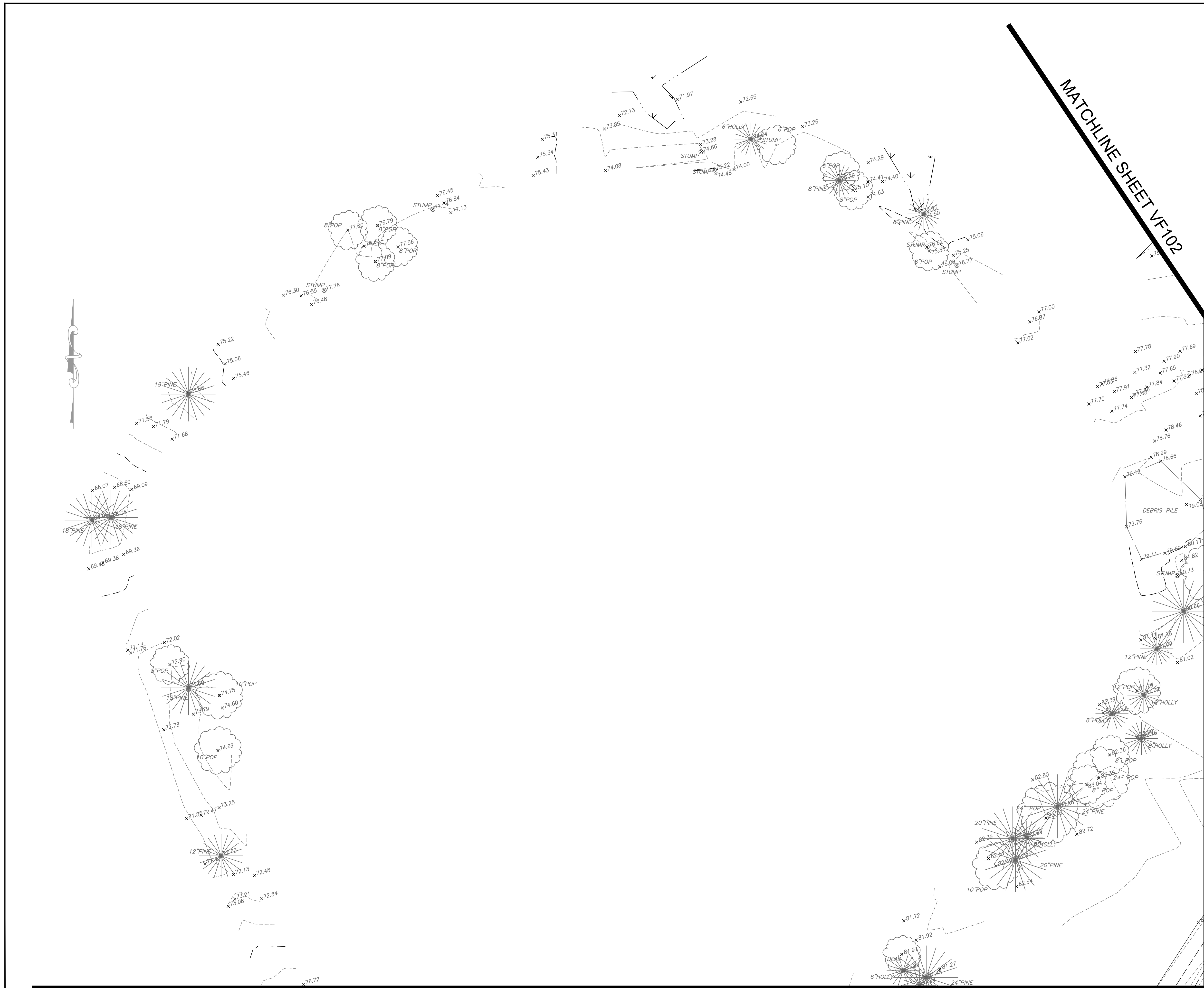
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NO.	DATE		
NO.	DATE		



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GENERAL NOTES
HERITAGE PARK ATV TRAIL
 LOCATION: 21311 COURTHOUSE HWY WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR:	MEW
CHECK:	KMS
PROJ#:	004039 22
DATE:	12/02/2022
SCALE:	N/A



MATCHLINE SHEET VF102

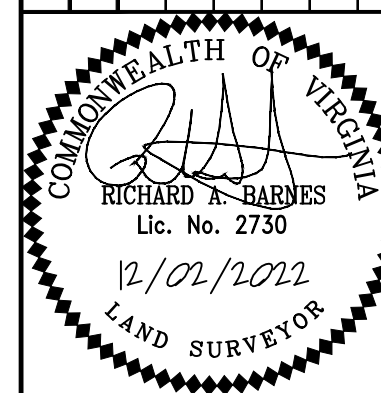
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MATCHLINE SHEET VF102

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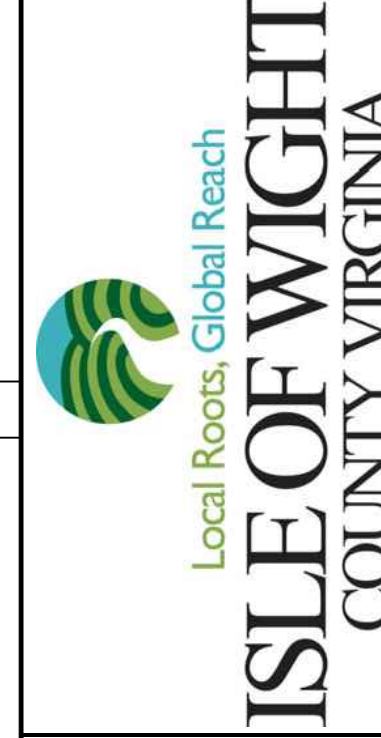
1. THE MERIDIAN SOURCE OF THIS TOPOGRAPHIC SURVEY REFERENCE THE VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
2. ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM 1988.
3. THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF APRIL 13, 2021 AND DOES NOT CERTIFY AS TO THE ACCURACY OF PROPOSED OR FUTURE ITEMS WHICH ARE ADDED TO THIS DRAWING.
4. PIPE MATERIAL TYPES ARE DETERMINED BY FIELD OBSERVATIONS TO THE BEST OF OUR ABILITY WITHOUT ACCESSING STRUCTURES. VARIOUS TYPES MAY NOT BE ACCURATE DUE TO THE INACCESSIBILITY AND LOCATION OF PIPES WITHIN THE STRUCTURES.
5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE SURVEYOR FURTHER NOTIFIES ALL PARTIES THAT VIRGINIA LAW REQUIRES MISS-UTILITY TO BE CONTACTED PRIOR TO ANY EXCAVATION.
6. THIS FIRM IS NOT RESPONSIBLE FOR THE LOCATION OF ANY STRUCTURE, MANHOLE, VALVE, ETC., HIDDEN OR OBSTRUCTED AT THE TIME THE FIELD SURVEY WAS PERFORMED.
7. THIS SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF RICHARD A. BARNES, L.S., LICENSE NO. 002730, FROM AN ACTUAL GROUND SURVEY MADE UNDER HIS SUPERVISION AND MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
8. WETLAND DELINEATION SHOWN IS FROM LOCATING FLAGS PLACED BY ATCS. A CONFORMATION FROM THE CORPS OF ENGINEERS WAS NOT KNOWN AT TIME OF SURVEY.

SUBMISSION		REVISION	
NO.	DATE	NO.	DESCRIPTION



LEGEND

- DECIDUOUS TREE
- EVERGREEN TREE
- TREE STUMP
- STORM SEWER PIPE
- WETLAND
- EDGE OF PAVEMENT
- TREE LINE



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EXISTING CONDITIONS
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
VF101
 SHEET: 3 OF 23



MATCHLINE SHEET VF101

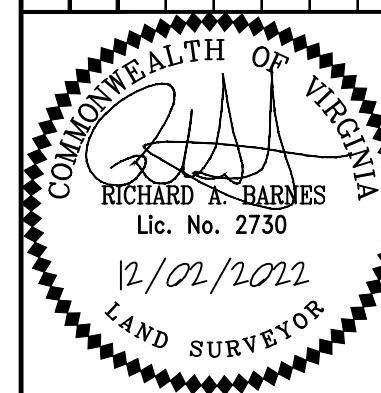
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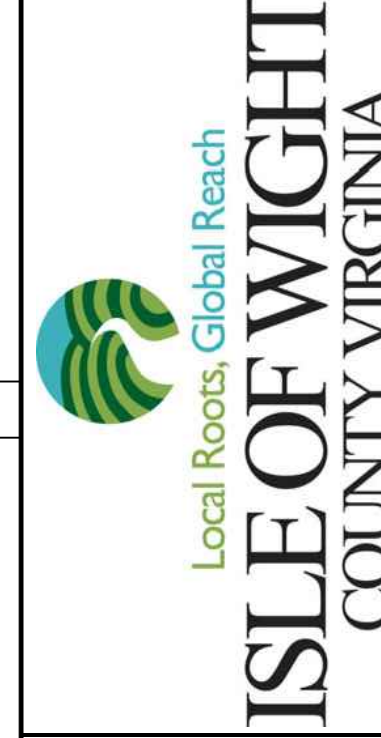
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NO.	DATE	NO.	DATE



LEGEND

- DECIDUOUS TREE
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 (757) 504-2976 FAX (757) 637-0276
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EXISTING CONDITIONS
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'



SHEET
VF102
 SHEET: 4 OF 23

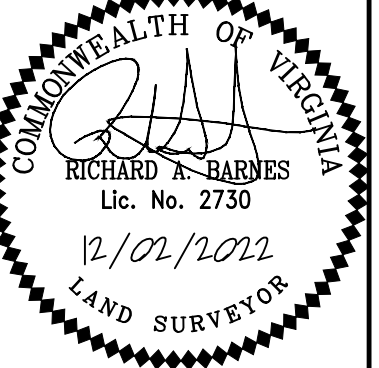
MATCHLINE SHEET VF101



NOTES

1. THE MERIDIAN SOURCE OF THIS TOPOGRAPHIC SURVEY REFERENCE THE VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
2. ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM 1988.
3. THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF APRIL 13, 2021 AND DOES NOT CERTIFY AS TO THE ACCURACY OF PROPOSED OR FUTURE ITEMS WHICH ARE ADDED TO THIS DRAWING.
4. PIPE MATERIAL TYPES ARE DETERMINED BY FIELD OBSERVATIONS TO THE BEST OF OUR ABILITY WITHOUT ACCESSING STRUCTURES. VARIOUS TYPES MAY NOT BE ACCURATE DUE TO THE INACCESSIBILITY AND LOCATION OF PIPES WITHIN THE STRUCTURES.
5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE SURVEYOR FURTHER NOTIFIES ALL PARTIES THAT VIRGINIA LAW REQUIRES MISS-UTILITY TO BE CONTACTED PRIOR TO ANY EXCAVATION.
6. THIS FIRM IS NOT RESPONSIBLE FOR THE LOCATION OF ANY STRUCTURE, MANHOLE, VALVE, ETC., HIDDEN OR OBSTRUCTED AT THE TIME THE FIELD SURVEY WAS PERFORMED.
7. THIS SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF RICHARD A. BARNES, L.S., LICENSE NO. 002730, FROM AN ACTUAL GROUND SURVEY MADE UNDER HIS SUPERVISION AND MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
8. WETLAND DELINEATION SHOWN IS FROM LOCATING FLAGS PLACED BY ATCS. A CONFORMATION FROM THE CORPS OF ENGINEERS WAS NOT KNOWN AT TIME OF SURVEY.

REVISION		DESCRIPTION	
NO.	DATE	NO.	DATE



LEGEND

- DECIDUOUS TREE
- EVERGREEN TREE
- TREE STUMP
- STORM SEWER PIPE
- WETLAND
- EDGE OF PAVEMENT
- TREE LINE



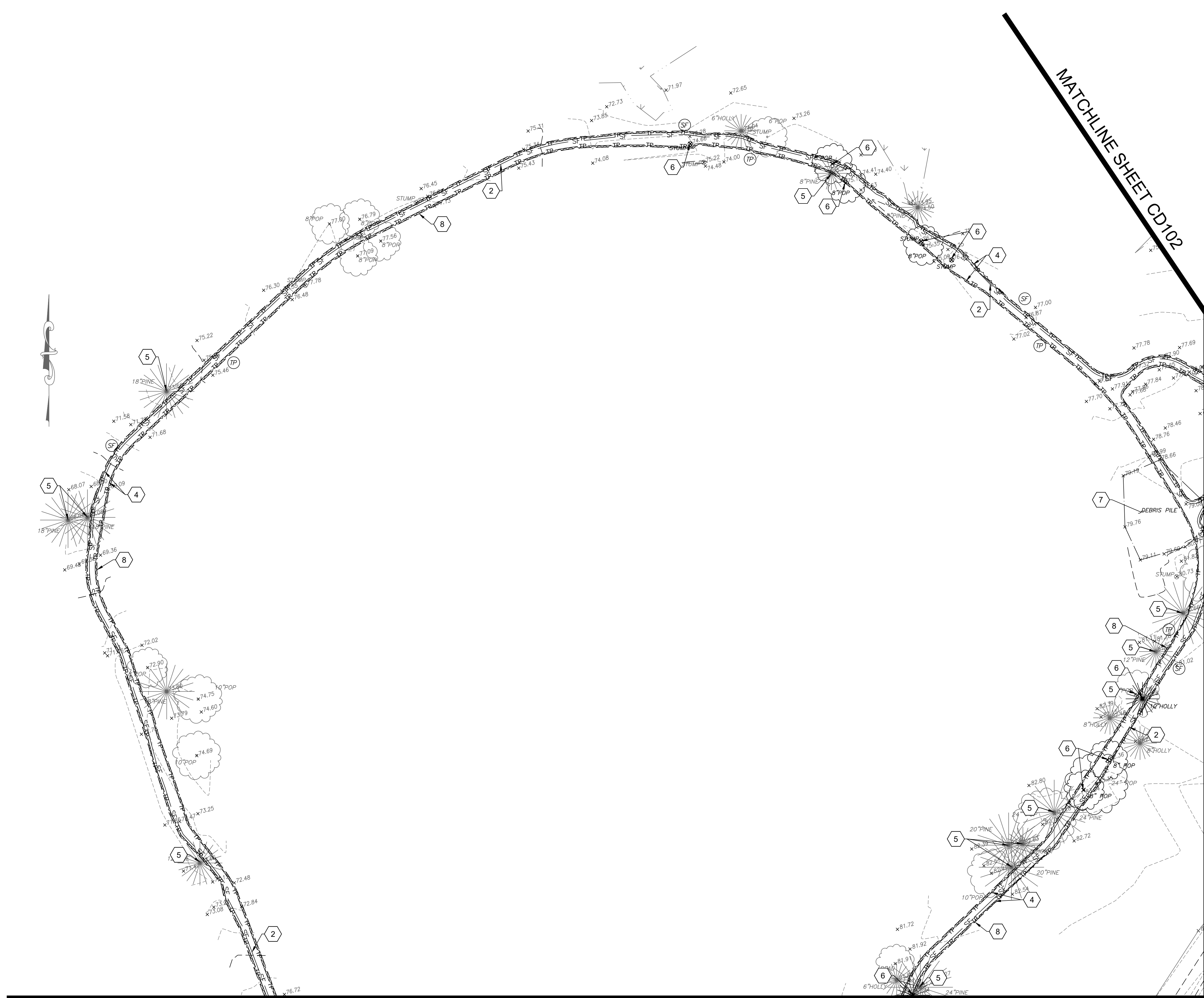
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EXISTING CONDITIONS
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
VF103
 SHEET: 5 OF 23





MATCHLINE SHEET CD103

MATCHLINE SHEET CD102

MATCHLINE SHEET CD102

NOTES

1. APPLY TEMPORARY SEEDING TO AREAS THAT ARE TO REMAIN DISTURBED MORE THAN 14 DAYS. SEE DETAILS 6 AND 7 FOR SHEET CD501 FOR DETAILS.
2. CONTRACTOR SHALL PROVIDE TWO LAYERS OF SILT FENCE AROUND ALL STOCKPILE AREAS.
3. SILT FENCE AND TREE PROTECTION ARE SHOWN FOR ILLUSTRATIVE AND GRAPHICAL CLARITY PURPOSES ONLY. SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE. TREE PROTECTION SHALL BE INSTALLED 5-FT FROM THE DRIP LINE OF THE TREE.
4. SEE DETAIL 4, SHEET CD501 FOR TRAIL CLEARING DIMENSIONS AND INFORMATION.

KEYNOTES

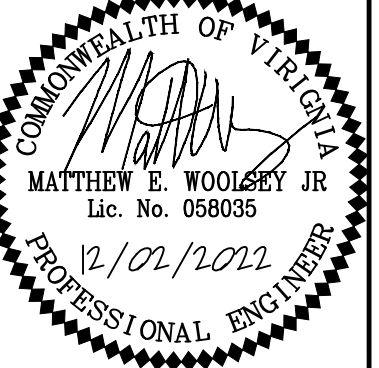
1. INSTALL CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCE
3. INSTALL INLET PROTECTION
4. INSTALL TREE PROTECTION
5. PROTECT EXISTING TREE DURING CONSTRUCTION
6. REMOVE EXISTING TREE/STUMP
7. REMOVE AND DISPOSE OF EXISTING DEBRIS PILE
8. LIMITS OF DISTURBANCE/LIMITS OF CLEARING
9. CONTRACTOR SHALL RESTORE ALL TEMPORARY IMPACTS TO WETLANDS TO PRE-CONSTRUCTION CONDITIONS UPON COMPLETION OF THE WORK. SEE WETLANDS PERMIT NAO-2021-02977 / VMRC#22-1376 (WATERWAY) FOR DETAILS.

LEGEND

- SILT FENCE — SF — SF
- TREE PROTECTION — TP — TP
- CONSTRUCTION ENTRANCE [Symbol] CE
- INLET PROTECTION [Symbol] IP
- LIMITS OF DISTURBANCE [Symbol]
- TREE CLEARING LIMITS [Symbol]
- REMOVE EX. TREE [Symbol]



REVISION		DESCRIPTION	
NO.	DATE	NO.	DATE

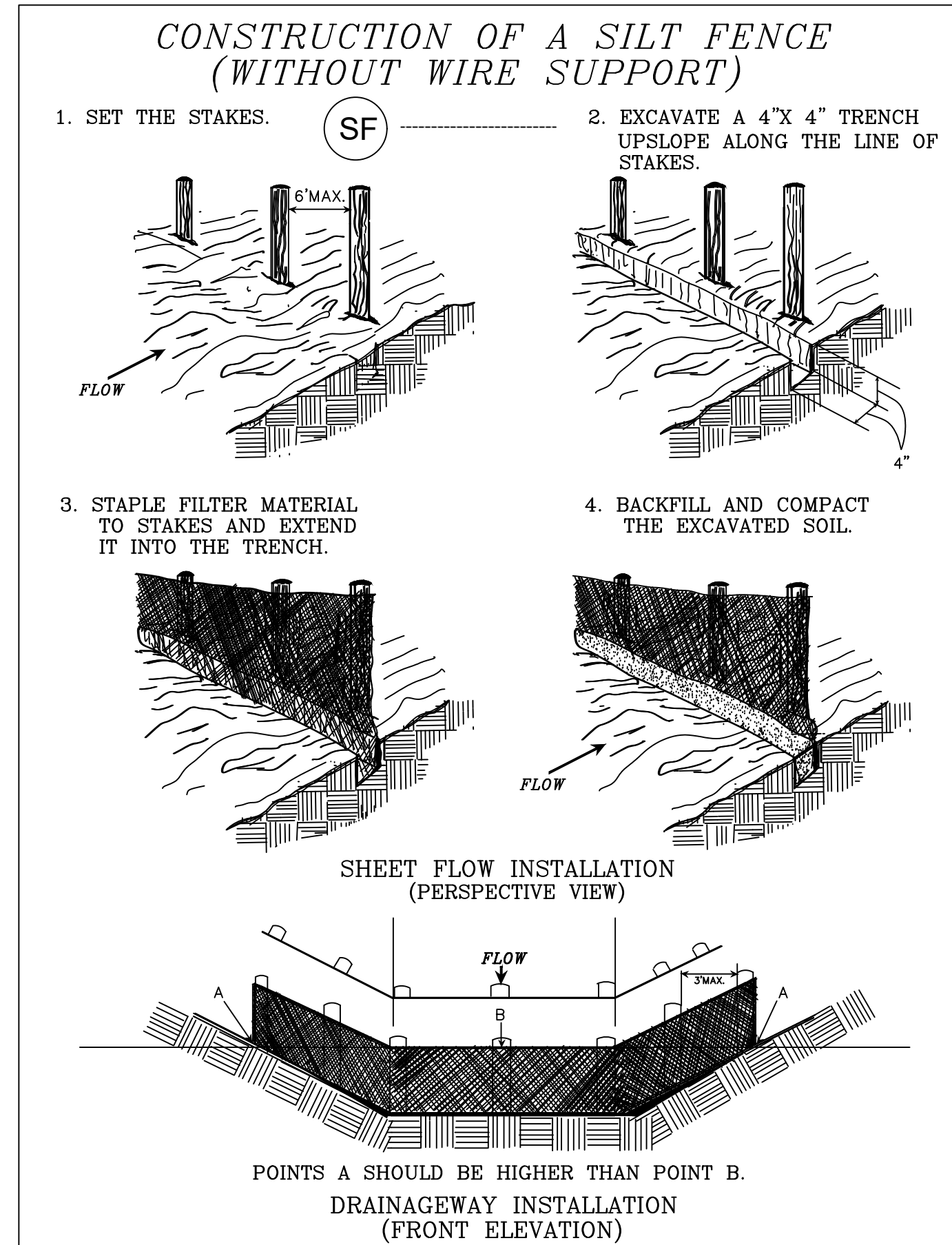


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DEMOLITION AND E&SC PLAN
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

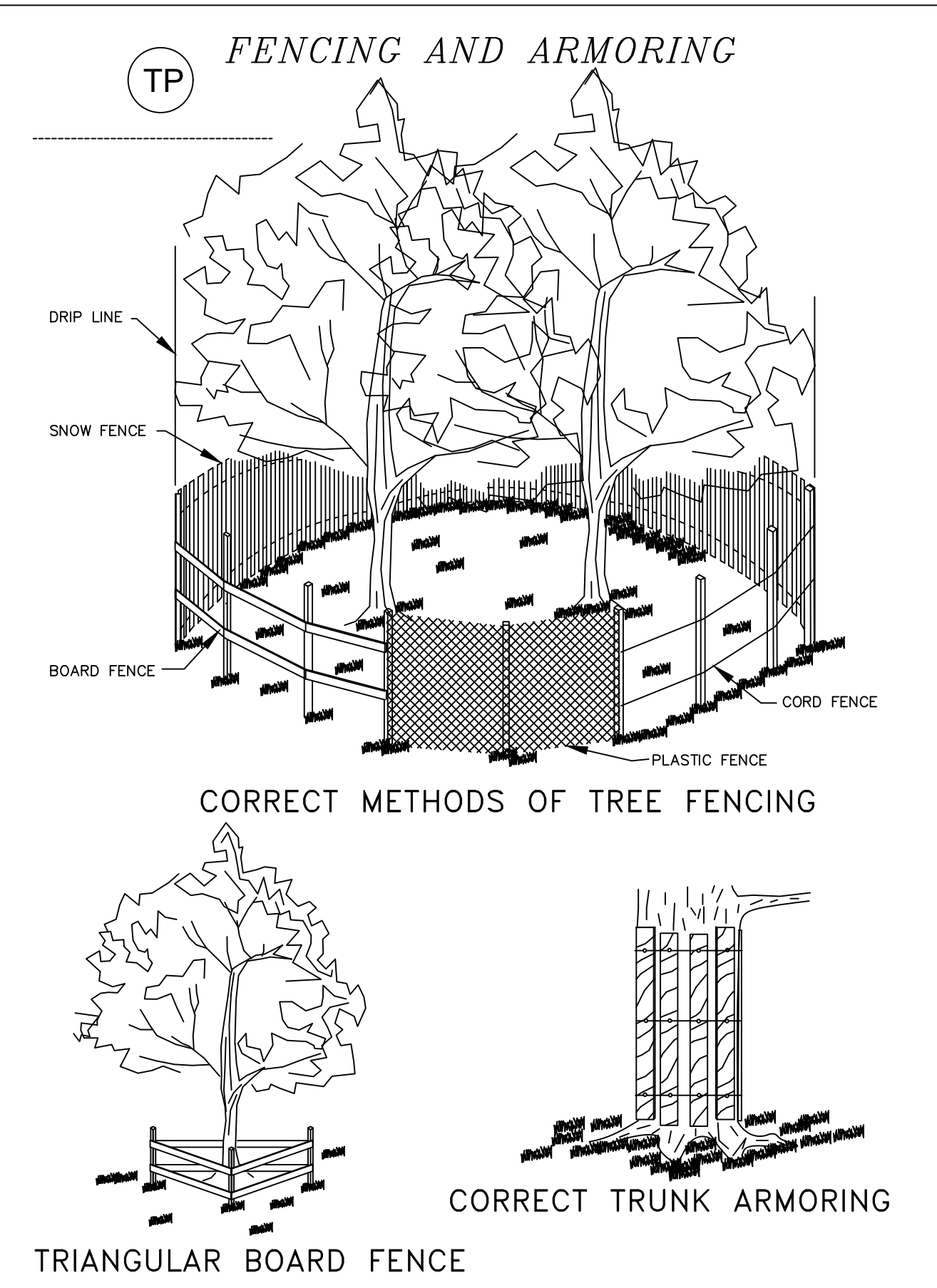
AUTHOR: MEW
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SHEET
CD101
 SHEET: 6 OF 23



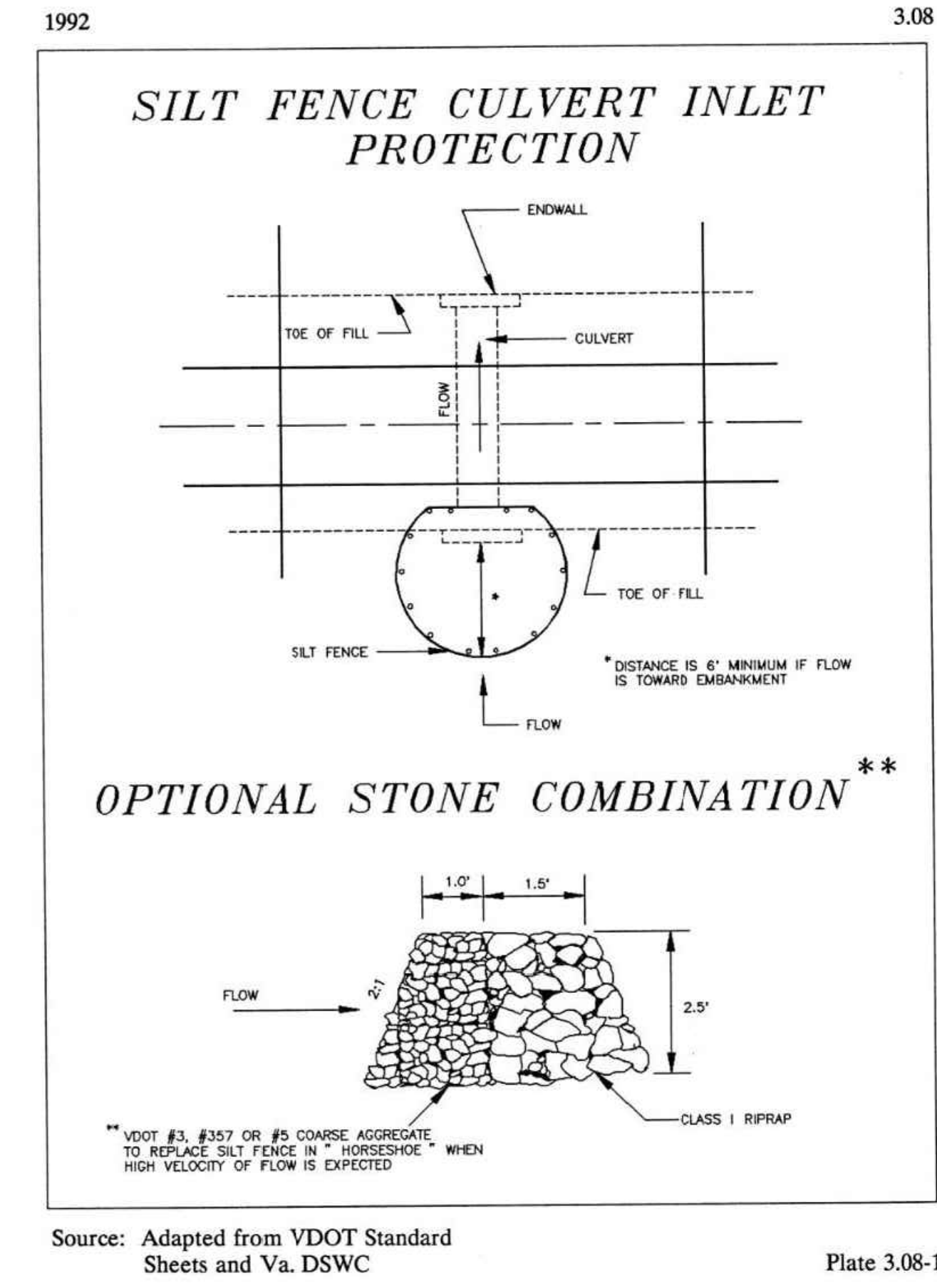
SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VA. DSWC Sherwood and Wyant

1 CD501



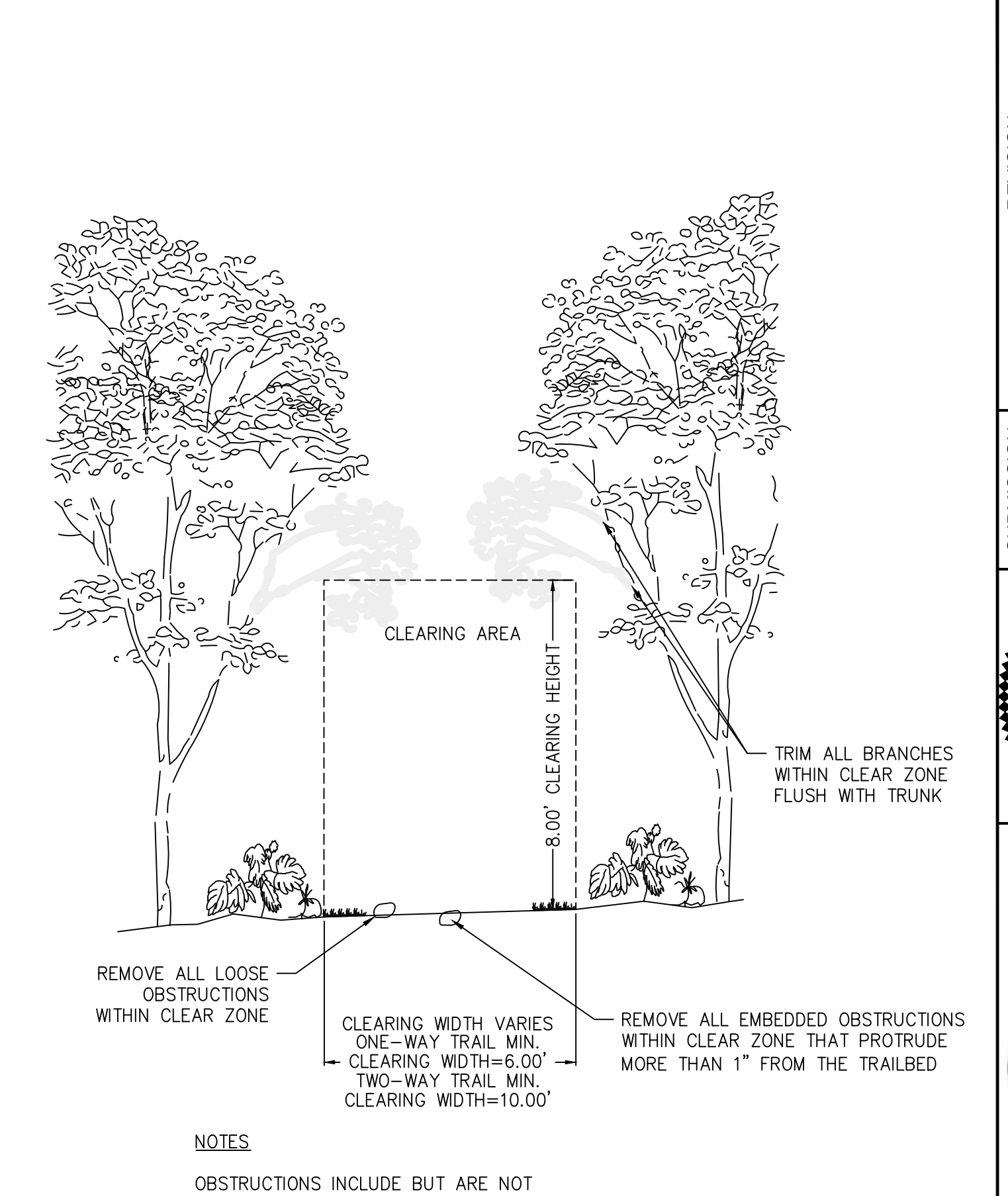
SOURCE: Va. DSWC

2 CD501



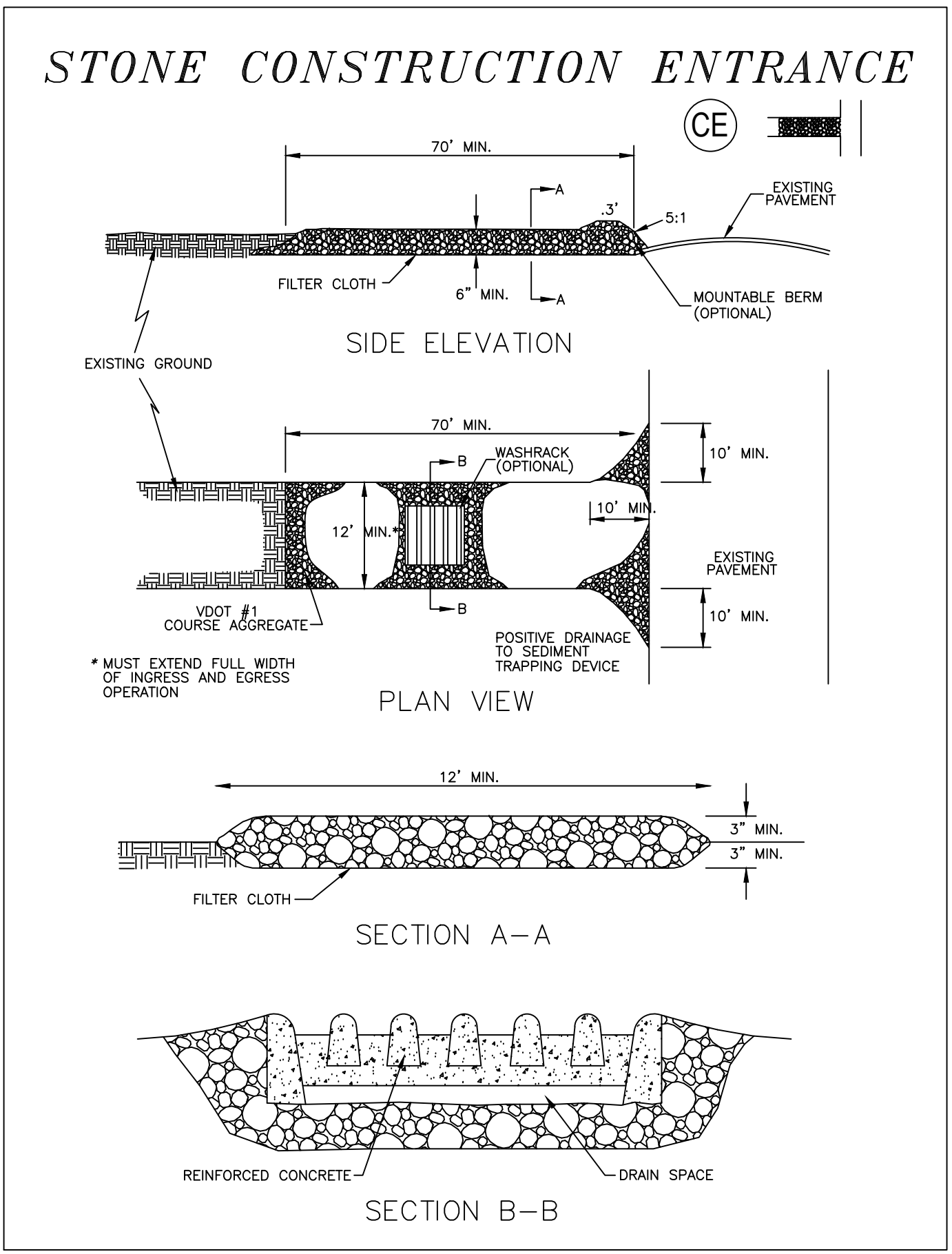
Source: Adapted from VDOT Standard Sheets and Va. DSWC

3 CD501



OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ROCKS, TRUNKS, ROOTS, AND STUMPS

4 CD501



SOURCE: ADAPTED FROM 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC

5 CD501

PERMANENT SEEDING (PS)

SEEDBED PREPARATION: SOIL SHOULD BE TESTED TO DETERMINE LIME AND FERTILIZER NEEDS. SOIL TESTS MAY BE PERFORMED BY THE COOPERATIVE EXTENSION SERVICE SOIL TESTING LABORATORY AT VPI&SU OR BY A REPUTABLE COMMERCIAL LABORATORY. SOIL CONDITIONERS AND AMENDMENTS SHALL BE ADDED TO THE SOIL AS REQUIRED IN PERMANENT SEEDING, STD. & SPEC. 3.32 OF THE VESC HANDBOOK, TO PROVIDE A GOOD GROWING MEDIUM FOR THE PLANTS.

TABLE 3.32-E (REVISED JUNE 2003)
PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA

LAND USE	SEED ¹		APPLICATION RATES
	SPECIES		
MINIMUM CARE LAWN (COMMERCIAL OR RESIDENTIAL)	TALL FESCUE ¹	175-200 LBS.	
	BERMUDAGRASS ¹	75 LBS.	
HIGH-MAINTENANCE LAWN	TALL FESCUE ¹	200-250 LBS.	
	BERMUDAGRASS ¹ (SEED) OR BERMUDAGRASS ¹ (BY OTHER VEGETATIVE ESTABLISHMENT METHOD, SEE STD. & SPEC. 3.34)	40 LBS. (UNHULLED) 30 LBS. (HULLED)	
GENERAL SLOPE (3:1 OR LESS)	TALL FESCUE ¹	128 LBS.	
	RED TOP GRASS OR CREEPING RED FESCUE SEASONAL NURSE CROP ²	2 LBS. 20 LBS.	
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	TALL FESCUE ¹	93-108 LBS.	
	BERMUDAGRASS (SEED) RED TOP GRASS OR CREEPING RED FESCUE SEASONAL NURSE CROP ² SERICEA LESPEDEZA ³	0-15 LBS. 2 LBS. 20 LBS. TOTAL: 150 LBS.	

1- WHEN SELECTING VARIETIES OF TURFGRASS, USE THE VIRGINIA CROP IMPROVEMENT ASSOCIATION (VOCIA) RECOMMENDED TURFGRASS VARIETY LIST. QUALITY SEED WILL BEAR A LABEL INDICATING THAT THEY ARE APPROVED BY VOCIA. A CURRENT TURFGRASS VARIETY LIST IS AVAILABLE AT THE LOCAL COUNTY EXTENSION OFFICE OR THROUGH VOCIA AT 804-748-4864 OR AT [HTTP://SUDAN.CSES.VT.EDU/HTM/TURF/TURF/PUBLICATIONS/PUBLICATIONS2.HTML](http://sudan.cses.vt.edu/htm/turf/turf/publications/publications2.html)

2- USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:

FEBRUARY, MARCH - APRIL	ANNUAL RYE
MAY 1 ST. - AUGUST	FOXTAIL RYE
SEPTEMBER, OCTOBER - NOVEMBER 15TH	ANNUAL RYE
NOVEMBER 16TH - JANUARY	WINTER RYE

3- MAY THROUGH OCTOBER, USE HULLED SEED. ALL OTHER SEEDING PERIODS, USE UNHULLED SEED. IF WEEPING LOVEGRASS IS USED, INCLUDE IN ANY SLOPE OR LOW MAINTENANCE MIXTURE DURING WARMER SEEDING PERIODS, INCREASE TO 30-40 LBS.

FERTILIZER & LIME

- APPLY 10-20-10 FERTILIZER AT A RATE OF 1000 LBS./ACRE (OR 12 LBS./1,000 SQ. FT.)
- APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 2 TONS/ACRE (OR 90 LBS./1,000 SQ. FT.)

NOTE:

1. A SOIL TEST IS NECESSARY TO DETERMINE THE ACTUAL AMOUNT OF LIME REQUIRED TO ADJUST THE SOIL PH OF THE SITE.
2. INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR BY OTHER MEANS.
3. WHEN APPLYING SLOWLY AVAILABLE NITROGEN, USE RATES AVAILABLE IN EROSION & SEDIMENT CONTROL TECHNICAL BULLETIN # 2003 NUTRIENT MANAGEMENT FOR DEVELOPMENT SITES AT [HTTP://WWW.DCR.STATE.VA.US/SW/E&S.HTM#PUBS](http://www.dcr.state.va.us/sw/e&s.htm#pubs)

MULCHING

ALL PERMANENT SEEDING MUST BE MULCHED IMMEDIATELY UPON COMPLETION OF SEED APPLICATION ACCORDING TO MULCHING, STD. & SPEC. 3.35 OF THE VESC HANDBOOK.

MAINTENANCE OF NEW SEEDINGS

IN GENERAL, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL IT HAS BEEN MAINTAINED FOR ONE FULL YEAR AFTER PLANTING. NEW SEEDINGS SHOULD BE SUPPLIED WITH ADEQUATE MOISTURE, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. INSPECT SEEDS AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE.

ALL PERMANENT SEEDING MUST BE MULCHED IMMEDIATELY UPON COMPLETION OF SEED APPLICATION ACCORDING TO MULCHING, STD. & SPEC. 3.35 OF THE VESC HANDBOOK.

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TEMPORARY SEEDING (TS)

SEEDBED PREPARATION

1. LIMING: AN EVALUATION SHOULD BE CONDUCTED TO DETERMINE IF LIME IS NECESSARY FOR TEMPORARY SEEDING. IF THE TEMPORARY SEEDING WILL BE DISTURBED IN LESS THAN SIX MONTHS, THEN THE APPLICATION OF LIME MAY BE OMITTED. IF NOT, THEN APPLY LIME AT THE FOLLOWING RATES:

PH TEST RESULT BELOW 4.2	3 TONS PER ACRE OF PULVERIZED AGRICULTURAL LIMESTONE
PH 4.2 TO 5.2	2 TONS PER ACRE OF PULVERIZED AGRICULTURAL LIMESTONE
PH 5.2 TO 6	1 TON PER ACRE OF PULVERIZED AGRICULTURAL LIMESTONE

2. FERTILIZER: SHALL BE APPLIED AS 600 LBS/ACRE OF 10-20-10 OR EQUIVALENT NUTRIENTS. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 TO 6 INCHES OF SOIL IF POSSIBLE.

3. SURFACE ROUGHENING: IF THE AREA HAS BEEN RECENTLY LOOSENEED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED, THE SOIL SURFACE SHALL BE LOOSENEED BY DISKING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS.

SEEDING SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SMALL SEEDS, SUCH AS KENTUCKY BLUEGRASS, SHOULD BE PLANTED NO MORE THAN 0.25" DEEP. OTHER GRASSES AND LEGUMES SHOULD BE PLANTED FROM 0.25" TO 0.5" DEEP. PLANT MATERIALS SHOULD BE APPROPRIATE TO THE SEASON LISTED AND PLANTED AT THE RATE LISTED BELOW.

PLANTING DATES	SPECIES	RATE (LBS/ACRE)
SEPT. 1 - FEB. 15	50% MIX OF ANNUAL RYEGRASS & CEREAL (WINTER) RYE	50-100
FEB. 16 - APR. 30	ANNUAL RYEGRASS	60-100
MAY 1 - AUG. 30	GERMAN MILLET	50

MULCHING

SEEDINGS MADE IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED ACCORDING TO MULCHING, STD. & SPEC. 3.35 OF THE VESC HANDBOOK, EXCEPT THAT HYDROMULCHES (FIBER MULCH) WILL NOT BE CONSIDERED ADEQUATE. STRAW MULCH SHOULD BE USED DURING THESE PERIODS.

SEEDINGS MADE IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED ACCORDING TO MULCHING, STD. & SPEC. 3.35 OF THE VESC HANDBOOK, EXCEPT THAT HYDROMULCHES (FIBER MULCH) WILL NOT BE CONSIDERED ADEQUATE. STRAW MULCH SHOULD BE USED DURING THESE PERIODS.

7 CD501

REVISION	NO.	DATE	DESCRIPTION

COMMONWEALTH OF VIRGINIA
MATTHEW E. WOOLSEY JR.
Lic. No. 056005
12/02/2022
PROFESSIONAL ENGINEER

Local Roots, Global Reach
ISLE OF WIGHT COUNTY, VIRGINIA

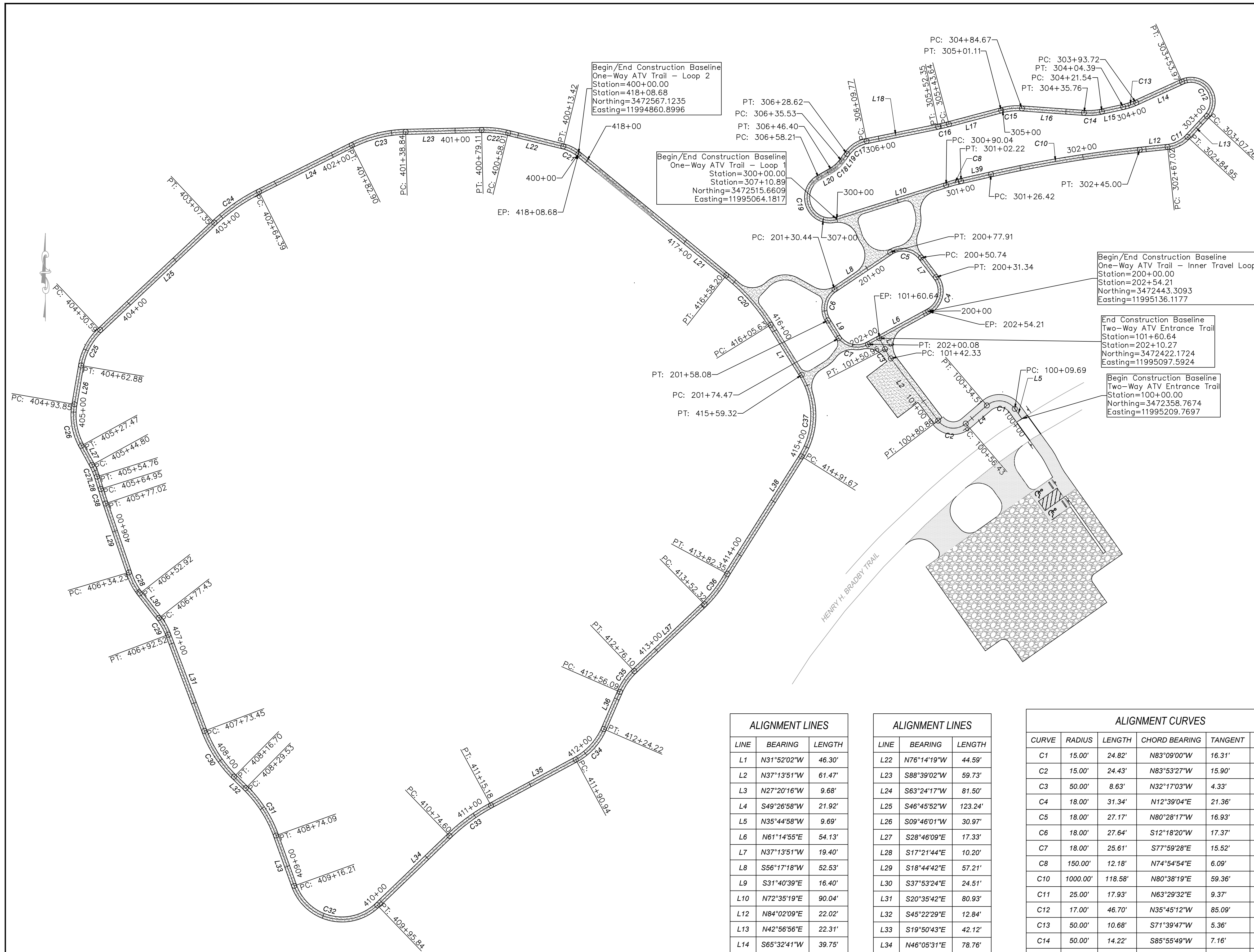
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DEMOLITION AND E&SC DETAILS
HERITAGE PARK ATV TRAIL

LOCATION:
21311 COURTHOUSE HWY
WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
CHECK: KMS
PROJ#: 004039.22
DATE: 12/02/2022
SCALE: N/A

SHEET
CD501
SHEET: 9 OF 23



Begin/End Construction Baseline
 One-Way ATV Trail - Loop 2
 Station=400+00.00
 Station=418+08.68
 Northing=3472567.1235
 Easting=11994860.8996

Begin/End Construction Baseline
 One-Way ATV Trail - Loop 1
 Station=300+00.00
 Station=307+10.89
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Begin/End Construction Baseline
 One-Way ATV Trail - Inner Travel Loop
 Station=200+00.00
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End Construction Baseline
 Two-Way ATV Entrance Trail
 Station=101+60.64
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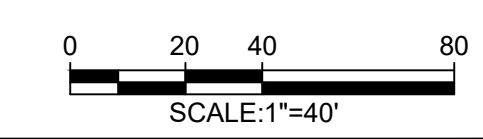
Begin Construction Baseline
 Two-Way ATV Entrance Trail
 Station=100+00.00
 Station=101+60.64
 Northing=3472358.7674
 Easting=11995209.7697

ALIGNMENT LINES		
LINE	BEARING	LENGTH
L1	N31°52'02"W	46.30'
L2	N37°13'51"W	61.47'
L3	N27°20'16"W	9.68'
L4	S49°26'58"W	21.92'
L5	N35°44'58"W	9.69'
L6	N61°14'55"E	54.13'
L7	N37°13'51"W	19.40'
L8	S56°17'18"W	52.53'
L9	S31°40'39"E	16.40'
L10	N72°35'19"E	90.04'
L12	N84°02'09"E	22.02'
L13	N42°56'56"E	22.31'
L14	S65°32'41"W	39.75'
L15	S77°46'53"W	17.14'
L16	N85°55'15"W	48.91'
L17	S75°14'43"W	42.54'
L18	S78°34'10"W	57.42'
L19	S35°21'56"W	6.91'
L20	S60°16'40"W	11.80'
L21	N50°37'03"W	150.48'

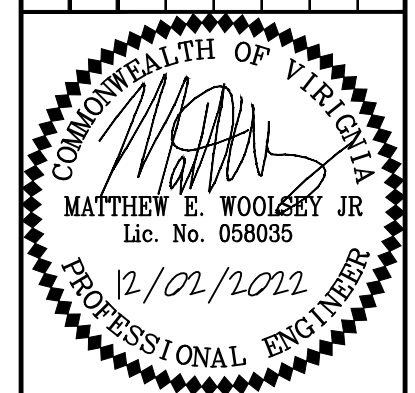
ALIGNMENT LINES		
LINE	BEARING	LENGTH
L22	N76°14'19"W	44.59'
L23	S88°39'02"W	59.73'
L24	S63°24'17"W	81.50'
L25	S46°45'52"W	123.24'
L26	S09°46'01"W	30.97'
L27	S28°46'09"E	17.33'
L28	S17°21'44"E	10.20'
L29	S18°44'42"E	57.21'
L30	S37°53'24"E	24.51'
L31	S20°35'42"E	80.93'
L32	S45°22'29"E	12.84'
L33	S19°50'43"E	42.12'
L34	N46°05'31"E	78.76'
L35	N61°35'38"E	75.75'
L36	N23°27'22"E	31.87'
L37	N46°23'33"E	76.22'
L38	N32°15'02"E	109.32'
L39	N77°14'29"E	24.19'

ALIGNMENT CURVES					
CURVE	RADIUS	LENGTH	CHORD BEARING	TANGENT	DELTA
C1	15.00'	24.82'	N83°09'00"W	16.31'	094°48'03"
C2	15.00'	24.43'	N83°53'27"W	15.90'	093°19'10"
C3	50.00'	8.63'	N32°17'03"W	4.33'	009°53'36"
C4	18.00'	31.34'	N12°39'04"E	21.36'	099°45'51"
C5	18.00'	27.17'	N80°28'17"W	16.93'	086°28'51"
C6	18.00'	27.64'	S12°18'20"W	17.37'	087°57'57"
C7	18.00'	25.61'	S77°59'28"E	15.52'	081°31'13"
C8	150.00'	12.18'	N74°54'54"E	6.09'	004°39'09"
C10	1000.00'	118.58'	N80°38'19"E	59.36'	006°47'40"
C11	25.00'	17.93'	N63°29'32"E	9.37'	041°05'13"
C12	17.00'	46.70'	N35°45'12"W	85.09'	157°24'15"
C13	50.00'	10.68'	S71°39'47"W	5.36'	012°14'12"
C14	50.00'	14.22'	S85°55'49"W	7.16'	016°17'52"
C15	50.00'	16.44'	S84°39'44"W	8.29'	018°50'02"
C16	150.00'	8.70'	S76°54'27"W	4.35'	003°19'27"
C17	25.00'	18.85'	S56°58'03"W	9.90'	043°12'14"
C18	25.00'	10.87'	S47°49'18"W	5.52'	024°54'44"
C19	18.00'	52.68'	S23°34'00"E	166.90'	167°41'21"
C20	150.00'	52.57'	N41°54'28"W	26.56'	020°04'54"
C21	30.00'	13.42'	N63°25'41"W	6.82'	025°37'15"

ALIGNMENT CURVES					
CURVE	RADIUS	LENGTH	CHORD BEARING	TANGENT	DELTA
C22	80.00'	21.10'	N83°47'38"W	10.61'	015°06'39"
C23	100.00'	44.06'	S76°01'40"W	22.39'	025°14'45"
C24	150.00'	42.95'	S55°12'05"W	21.62'	016°24'24"
C25	50.00'	32.29'	S28°15'56"W	16.73'	036°59'51"
C26	50.00'	33.63'	S09°30'04"E	17.48'	038°32'10"
C27	50.00'	9.95'	S23°03'56"E	4.99'	011°24'25"
C28	50.00'	18.69'	S27°10'55"E	9.45'	021°24'59"
C29	50.00'	15.09'	S29°14'33"E	7.60'	017°17'42"
C30	100.00'	43.25'	S32°59'05"E	21.97'	024°46'47"
C31	100.00'	44.56'	S32°36'36"E	22.65'	025°31'45"
C32	40.00'	79.63'	S76°52'36"E	61.67'	114°03'46"
C33	150.00'	40.58'	N53°50'35"E	20.42'	015°30'07"
C34	50.00'	33.28'	N42°31'30"E	17.28'	038°08'16"
C35	50.00'	20.02'	N34°55'28"E	10.14'	022°56'11"
C36	100.00'	30.03'	N36°48'53"E	15.13'	017°12'13"
C37	60.46'	67.65'	N00°11'30"E	37.86'	064°07'04"
C38	500.00'	12.07'	S18°03'13"E	6.03'	001°22'58"



SUBMISSION		REVISION	
NO.	DATE	NO.	DESCRIPTION



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CENTERLINE ALIGNMENT DATA
HERITAGE PARK ATV TRAIL
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SHEET
CS100
 SHEET: 10 OF 23



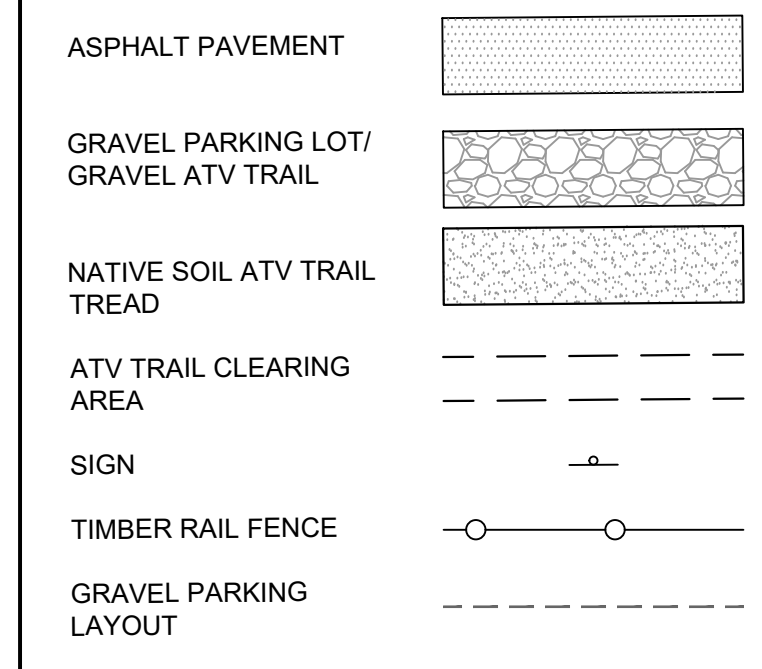
NOTES

1. ATV TRAIL VERTICAL AND HORIZONTAL GEOMETRY IS DESIGNED IN ACCORDANCE TO THE DESIGN CRITERIA APPROVED BY ISLE OF WIGHT COUNTY. SEE SHEET G1001 FOR DESIGN CRITERIA TABLE.
2. LAYOUT/DIMENSIONS OF PARKING SPACES AND DRIVE AISLES IN THE GRAVEL PARKING LOT ARE FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY. THERE ARE NO PAVEMENT MARKINGS, BUMPERS, OR OTHER DELINEATORS PROPOSED IN THE GRAVEL PARKING LOT.

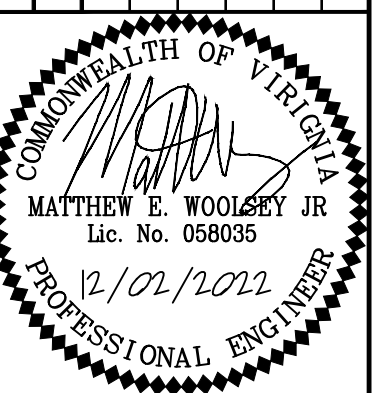
KEYNOTES

1. ONE-WAY NATIVE SOIL ATV TRAIL
4' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 6'
TOTAL CLEARING HEIGHT = 8'
2. TWO-WAY NATIVE SOIL ATV TRAIL
8' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 10'
TOTAL CLEARING HEIGHT = 8'
3. 20'x40' NATIVE SOIL ATV PULLOFF AREA
4. ONE-WAY TRAIL LOOP ENTRANCE PATH (NATIVE SOIL)
5. ONE-WAY TRAIL LOOP EXIT PATH (NATIVE SOIL)
6. 24'-WIDE ASPHALT PAVEMENT DRIVEWAY ENTRANCE
7. GRAVEL PARKING LOT (CS501)
8. ASPHALT PAVEMENT (CS501)
9. TIMBER RAIL FENCE (CS501)
10. ADA PAVEMENT STRIPING (CS501)
11. POLE MOUNTED ADA PARKING SIGN (CS501)
12. PAVEMENT STRIPING (6" WHITE)
13. POLE MOUNTED ATV CROSSING SIGN, SIZE 2S (CS501)
14. 10'-WIDE GRAVEL ATV PATH (CS501)
15. 10'-WIDE ASPHALT ATV PATH (CS501)
16. 6'-WIDE GRAVEL ATV PATH (CS501)
17. GRAVEL PARKING SPACE LAYOUT. FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY (TYP.)
18. CONCRETE WHEEL STOP (CS501)

LEGEND



SUBMISSION		REVISION	
NO.	DATE	NO.	DESCRIPTION



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SITE LAYOUT PLAN
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

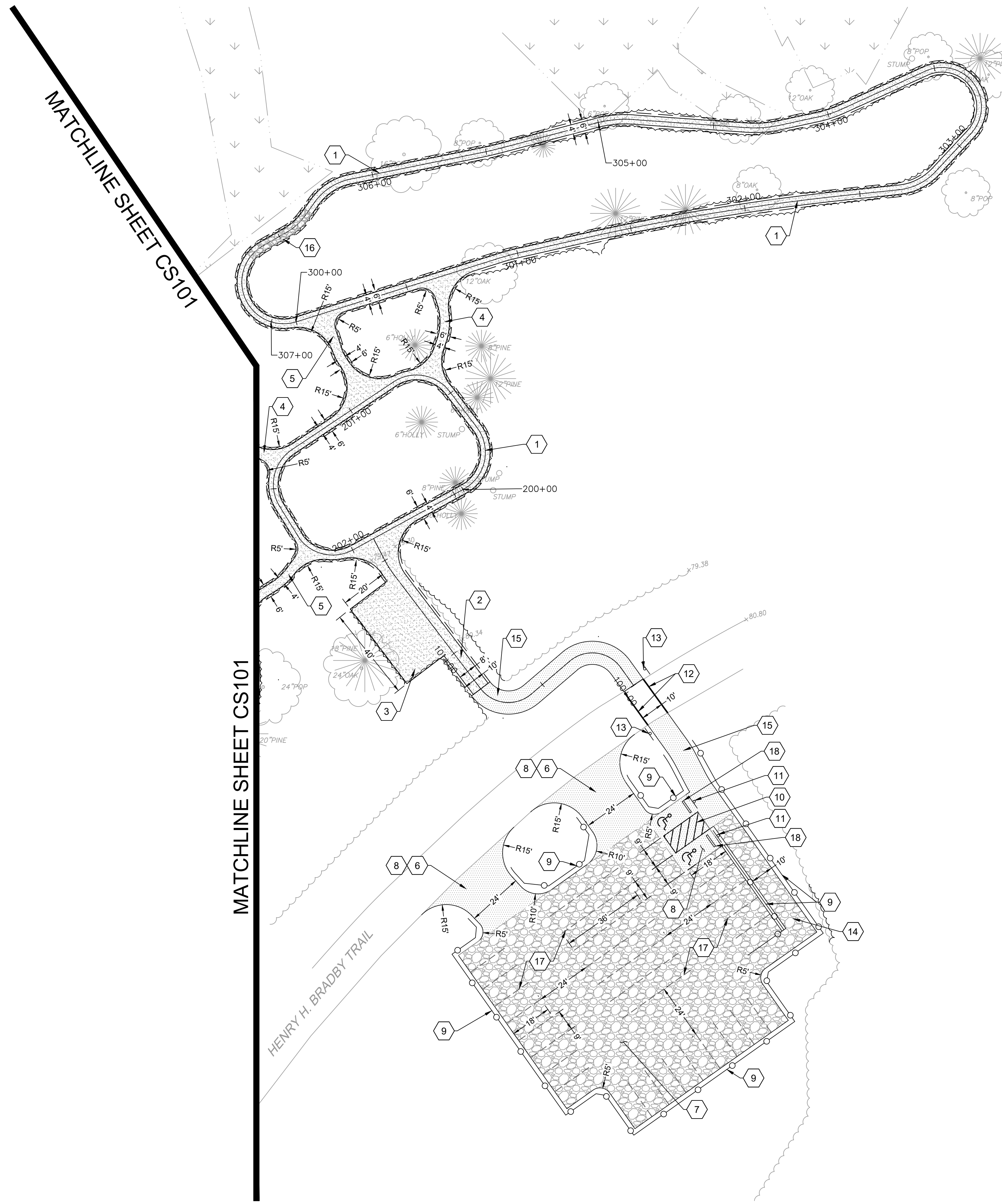
AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
CS101
 SHEET: 11 OF 23

MATCHLINE SHEET CS103

MATCHLINE SHEET CS102

MATCHLINE SHEET CS102



MATCHLINE SHEET CS101

MATCHLINE SHEET CS101

HENRY H. BRADBY TRAIL

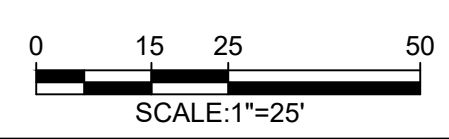
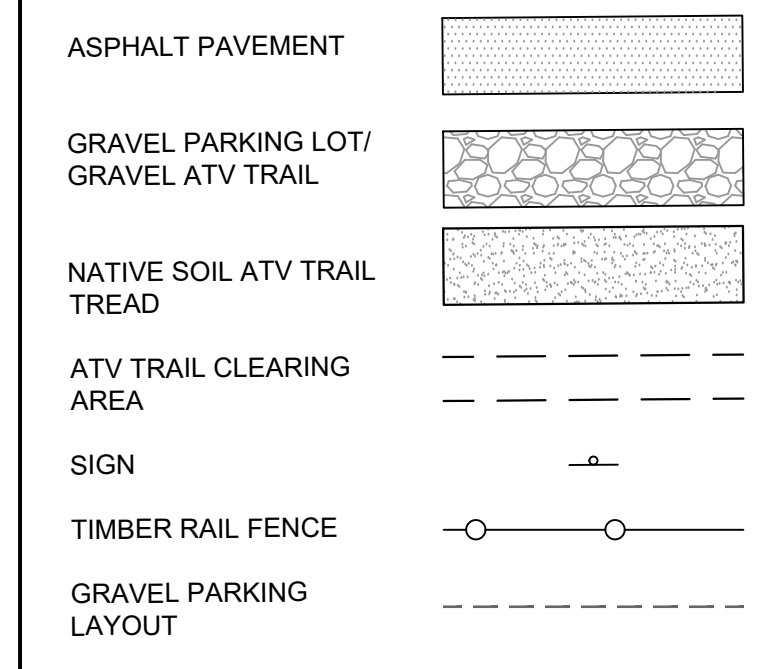
NOTES

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2. LAYOUT/DIMENSIONS OF PARKING SPACES AND DRIVE AISLES IN THE GRAVEL PARKING LOT ARE FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY. THERE ARE NO PAVEMENT MARKINGS, BUMPERS, OR OTHER DELINEATORS PROPOSED IN THE GRAVEL PARKING LOT.

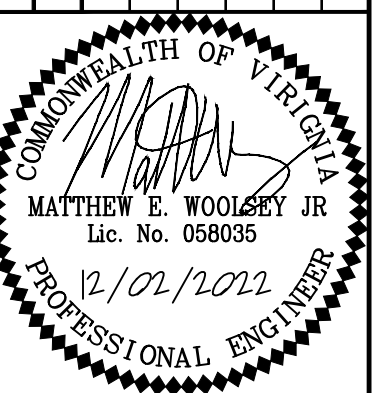
KEYNOTES

1. ONE-WAY NATIVE SOIL ATV TRAIL
4' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 6'
TOTAL CLEARING HEIGHT = 8'
2. TWO-WAY NATIVE SOIL ATV TRAIL
8' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 10'
TOTAL CLEARING HEIGHT = 8'
3. 20'x40' NATIVE SOIL ATV PULLOFF AREA
4. ONE-WAY TRAIL LOOP ENTRANCE PATH (NATIVE SOIL)
5. ONE-WAY TRAIL LOOP EXIT PATH (NATIVE SOIL)
6. 24'-WIDE ASPHALT PAVEMENT DRIVEWAY ENTRANCE
7. GRAVEL PARKING LOT (CS501)
8. ASPHALT PAVEMENT (CS501)
9. TIMBER RAIL FENCE (CS501)
10. ADA PAVEMENT STRIPING (CS501)
11. POLE MOUNTED ADA PARKING SIGN (CS501)
12. PAVEMENT STRIPING (6" WHITE)
13. POLE MOUNTED ATV CROSSING SIGN, SIZE 2S (CS501)
14. 10'-WIDE GRAVEL ATV PATH (CS501)
15. 10'-WIDE ASPHALT ATV PATH (CS501)
16. 6'-WIDE GRAVEL ATV PATH (CS501)
17. GRAVEL PARKING SPACE LAYOUT. FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY (TYP.)
18. CONCRETE WHEEL STOP (CS501)

LEGEND



SUBMISSION		REVISION	
NO.	DATE	NO.	DESCRIPTION



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SITE LAYOUT PLAN
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
CS102
 SHEET: 12 OF 23

MATCHLINE SHEET CS101



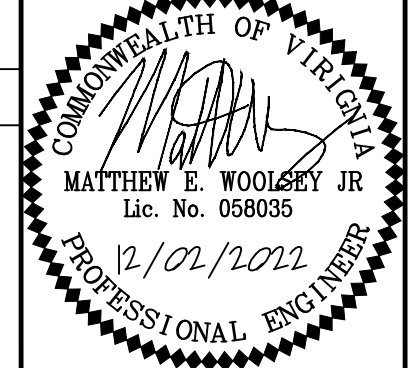
NOTES

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2. LAYOUT/DIMENSIONS OF PARKING SPACES AND DRIVE AISLES IN THE GRAVEL PARKING LOT ARE FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY. THERE ARE NO PAVEMENT MARKINGS, BUMPERS, OR OTHER DELINEATORS PROPOSED IN THE GRAVEL PARKING LOT.

SUBMISSION		REVISION	
NO.	DATE	NO.	DESCRIPTION

KEYNOTES

1. ONE-WAY NATIVE SOIL ATV TRAIL
4' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 6'
TOTAL CLEARING HEIGHT = 8'
2. TWO-WAY NATIVE SOIL ATV TRAIL
8' TREAD WIDTH
1' GRADED SHOULDERS
MIN. CLEARING WIDTH = 10'
TOTAL CLEARING HEIGHT = 8'
3. 20'x40' NATIVE SOIL ATV PULLOFF AREA
4. ONE-WAY TRAIL LOOP ENTRANCE PATH (NATIVE SOIL)
5. ONE-WAY TRAIL LOOP EXIT PATH (NATIVE SOIL)
6. 24'-WIDE ASPHALT PAVEMENT DRIVEWAY ENTRANCE
7. GRAVEL PARKING LOT (CS501)
8. ASPHALT PAVEMENT (CS501)
9. TIMBER RAIL FENCE (CS501)
10. ADA PAVEMENT STRIPING (CS501)
11. POLE MOUNTED ADA PARKING SIGN (CS501)
12. PAVEMENT STRIPING (6" WHITE)
13. POLE MOUNTED ATV CROSSING SIGN, SIZE 2S (CS501)
14. 10'-WIDE GRAVEL ATV PATH (CS501)
15. 10'-WIDE ASPHALT ATV PATH (CS501)
16. 6'-WIDE GRAVEL ATV PATH (CS501)
17. GRAVEL PARKING SPACE LAYOUT. FOR GRAPHICAL/INFORMATIONAL PURPOSES ONLY (TYP.)
18. CONCRETE WHEEL STOP (CS501)



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LEGEND

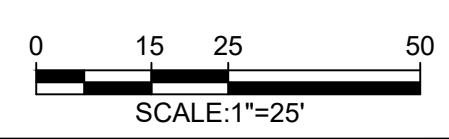
ASPHALT PAVEMENT	
GRAVEL PARKING LOT/ GRAVEL ATV TRAIL	
NATIVE SOIL ATV TRAIL TREAD	
ATV TRAIL CLEARING AREA	
SIGN	
TIMBER RAIL FENCE	
GRAVEL PARKING LAYOUT	

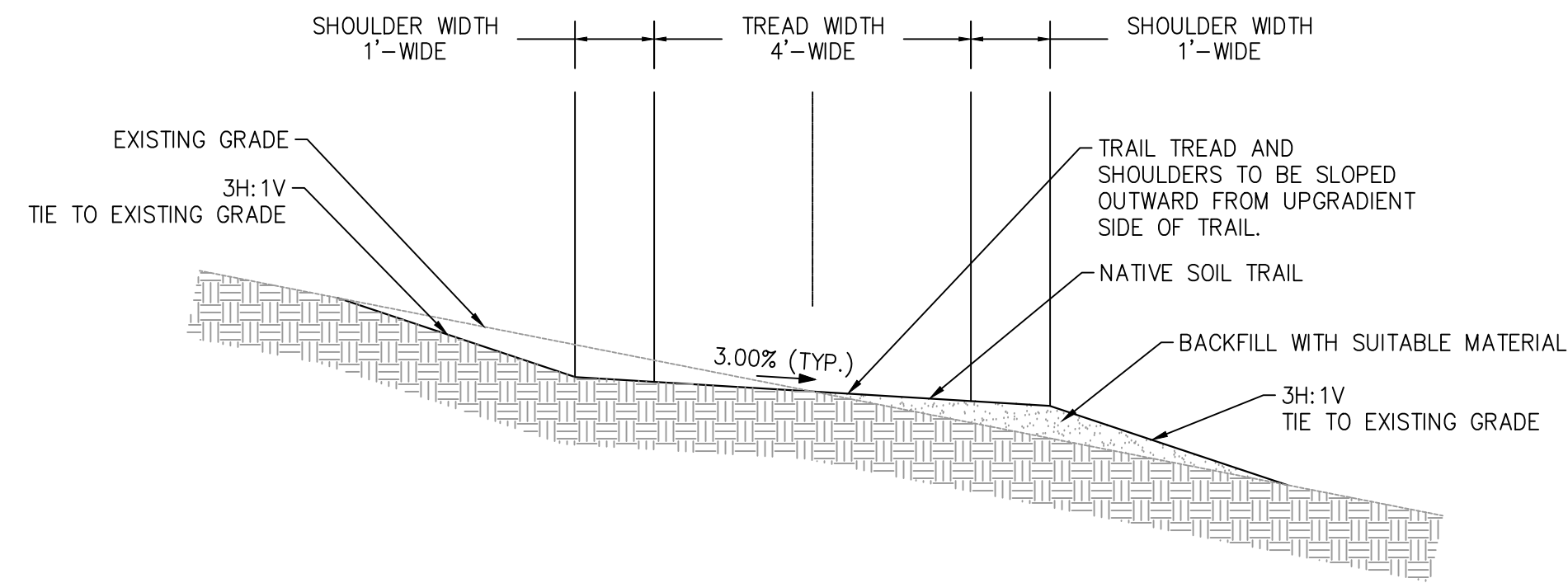
SITE LAYOUT PLAN
HERITAGE PARK ATV TRAIL

LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
CS103
 SHEET: 13 OF 23



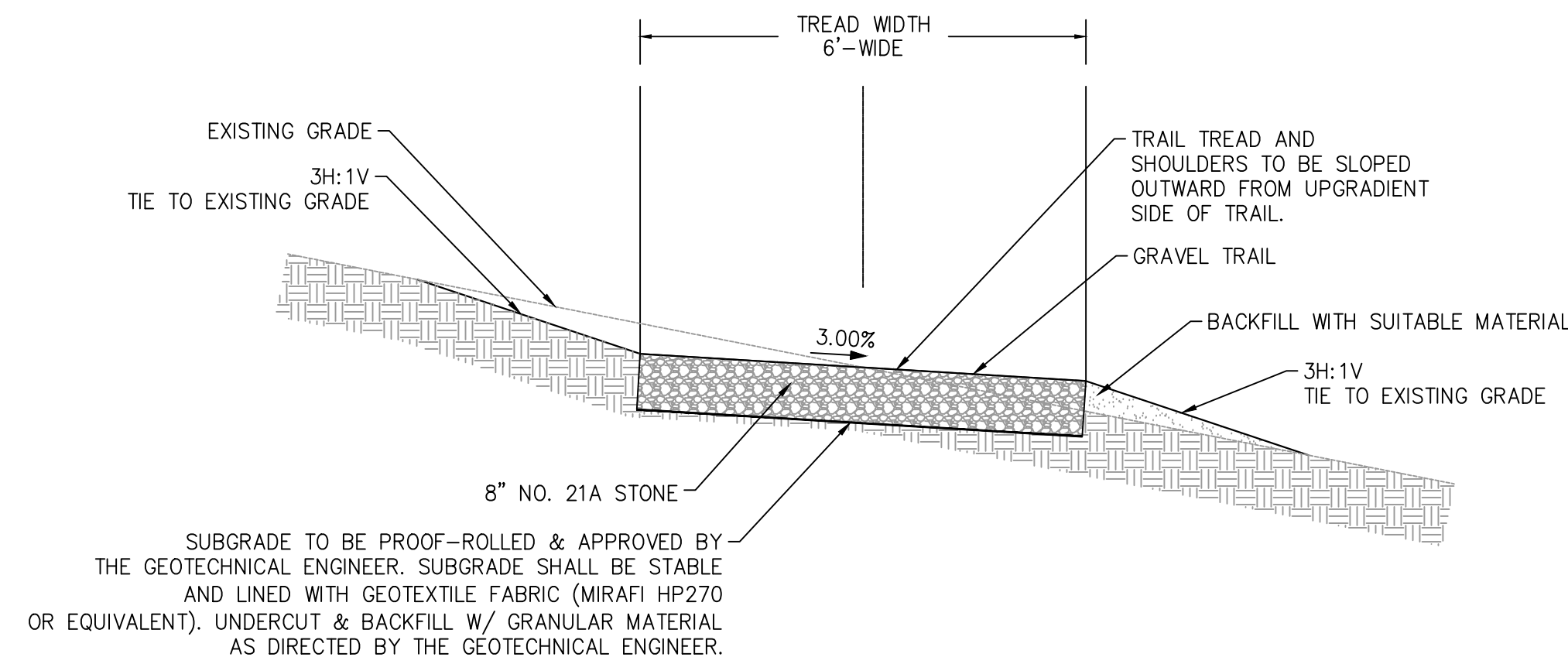


ATV TRAIL - ONE-WAY NATIVE SOIL TYPICAL SECTION

SCALE: 1"=2'

STATION TO STATION

200+00.00	202+54.21
300+00.00	306+35.00
306+65.00	307+10.89
400+00.00	417+35.00
417+90.00	418+08.68

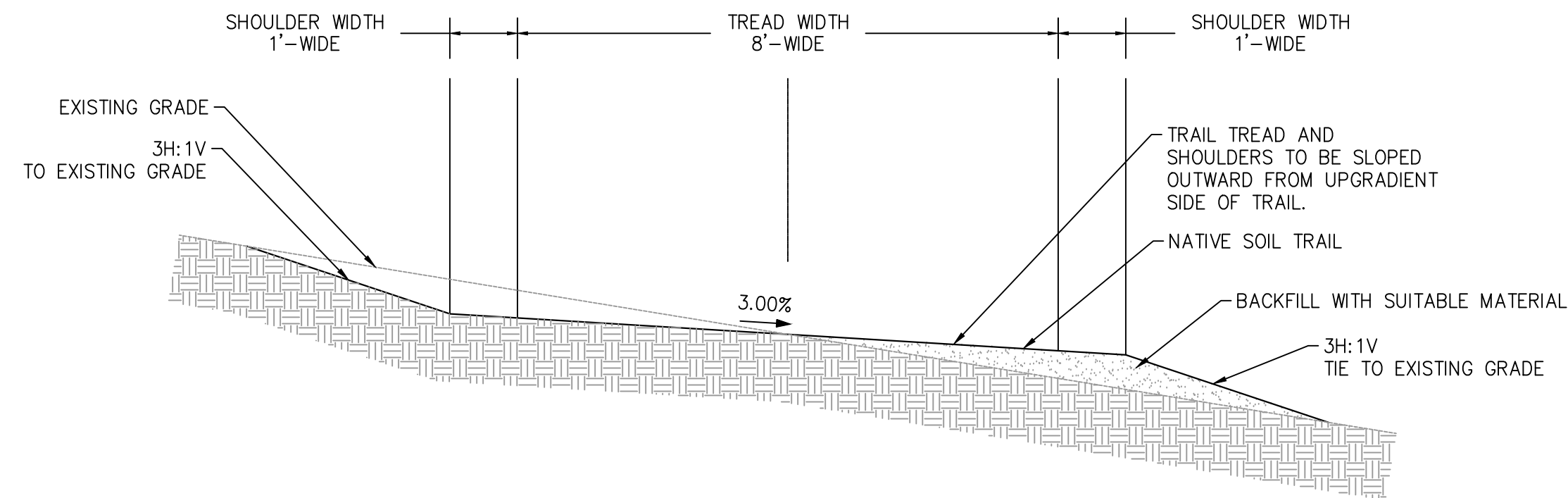


ATV TRAIL - ONE-WAY GRAVEL TYPICAL SECTION

SCALE: 1"=2'

STATION TO STATION

306+35.00	306+65.00
417+35.00	417+90.00

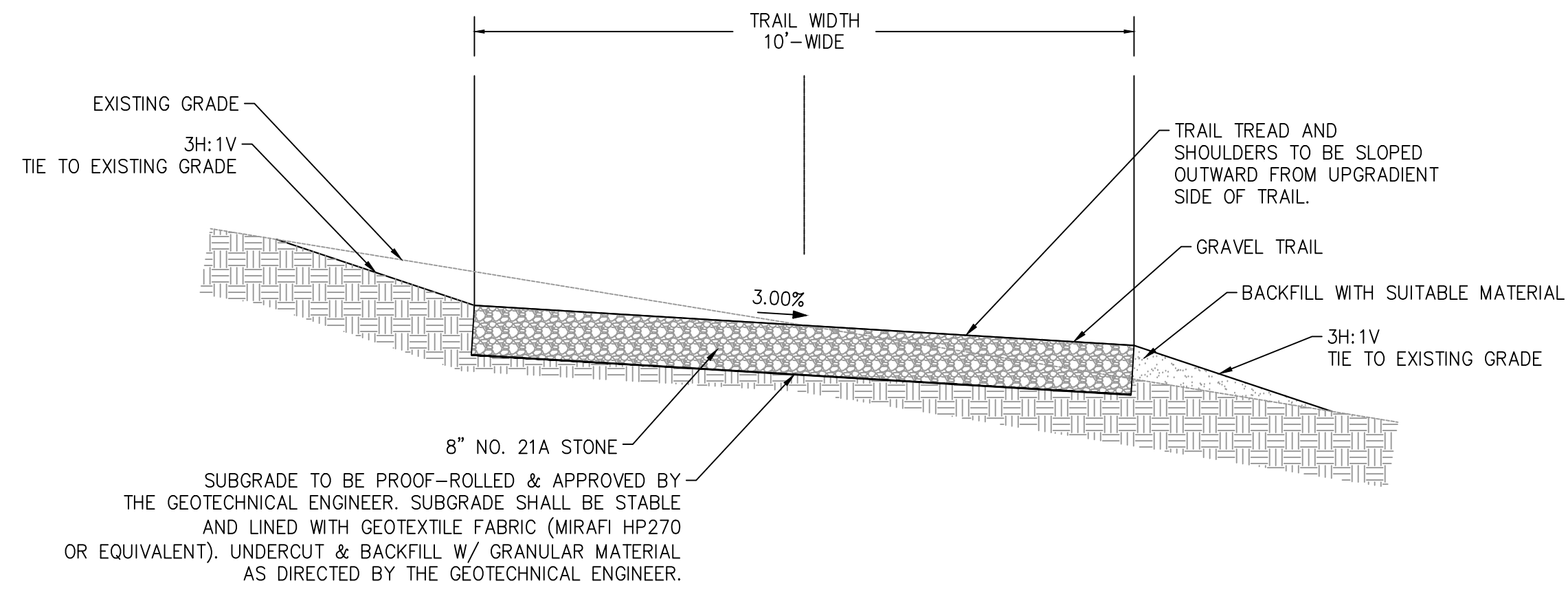


ATV TRAIL - TWO-WAY NATIVE SOIL TYPICAL SECTION

SCALE: 1"=2'

STATION TO STATION

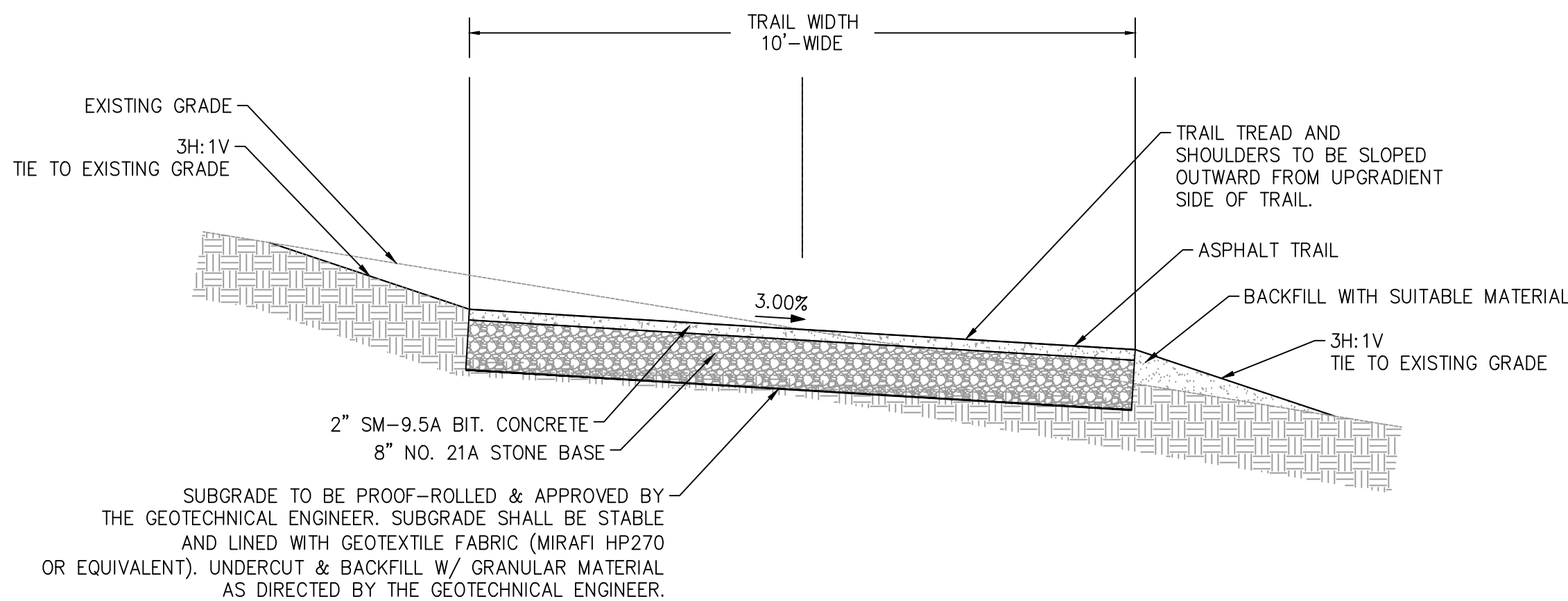
100+80.86	101+60.64
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ATV TRAIL - TWO-WAY GRAVEL TYPICAL SECTION

SCALE: 1"=2'

STATION TO STATION
SEE PARKING LOT GRADING PLANS SEE PARKING LOT GRADING PLANS



ATV TRAIL - TWO-WAY ASPHALT TYPICAL SECTION

SCALE: 1"=2'

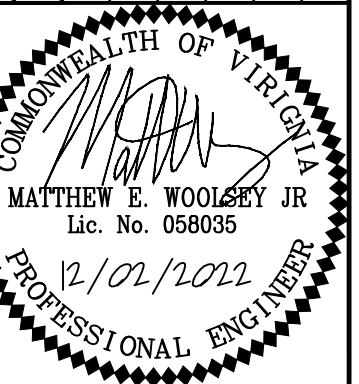
STATION TO STATION

100+00.00 100+80.86
SEE PARKING LOT GRADING PLANS SEE PARKING LOT GRADING PLANS

NOTES:

1. REMOVE ALL ROOTS THAT PROTRUDE FROM THE BACKSLOPES.
2. REMOVE ALL LOOSE OBSTRUCTIONS AND ANY EMBEDDED OBSTRUCTIONS THAT PROTRUDE MORE THAN 1" FROM THE SURFACE. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ROCKS, TRUNKS, ROOTS, AND STUMPS.

REVISION		DESCRIPTION	
NO.	DATE	NO.	DATE

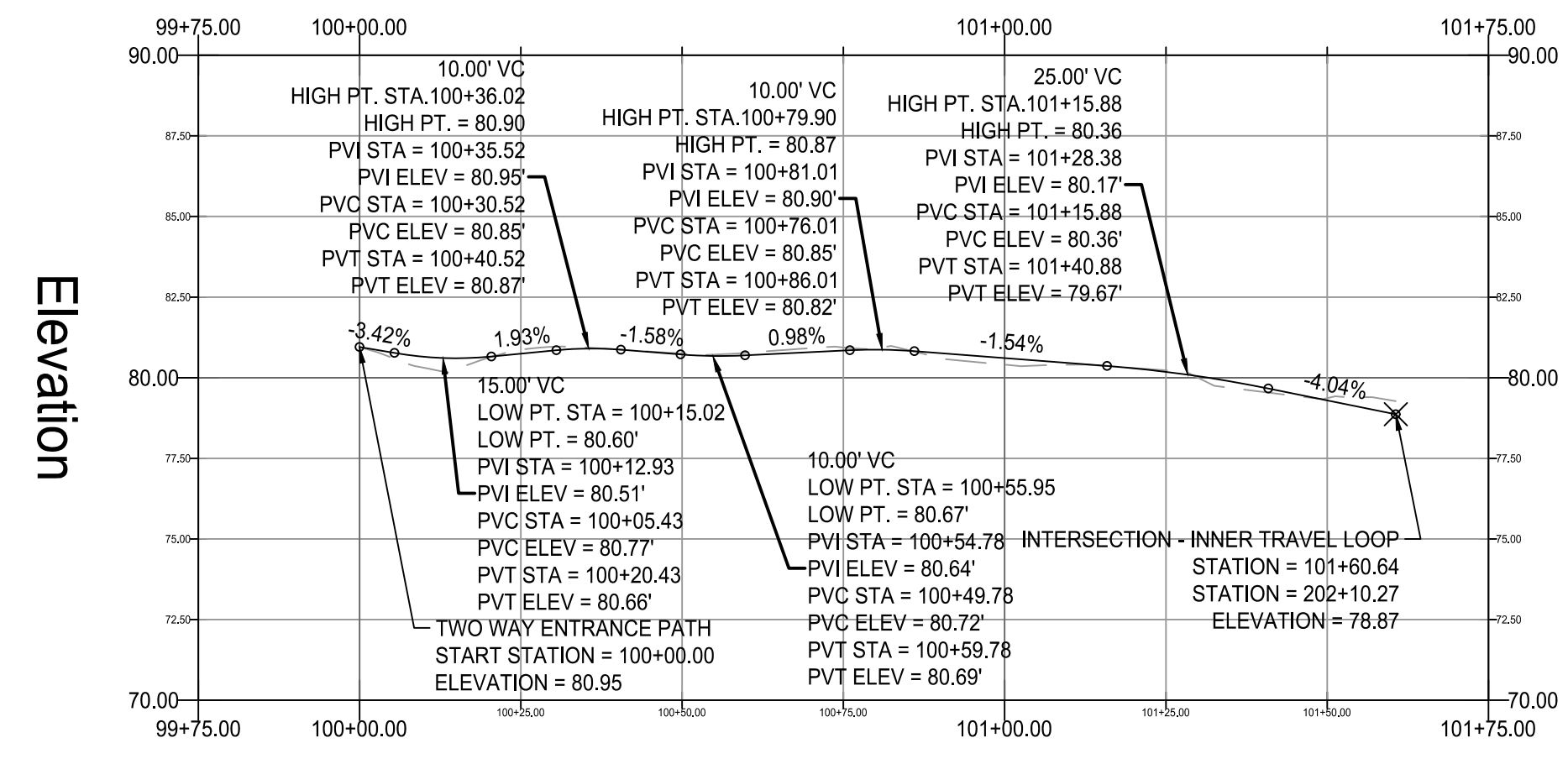


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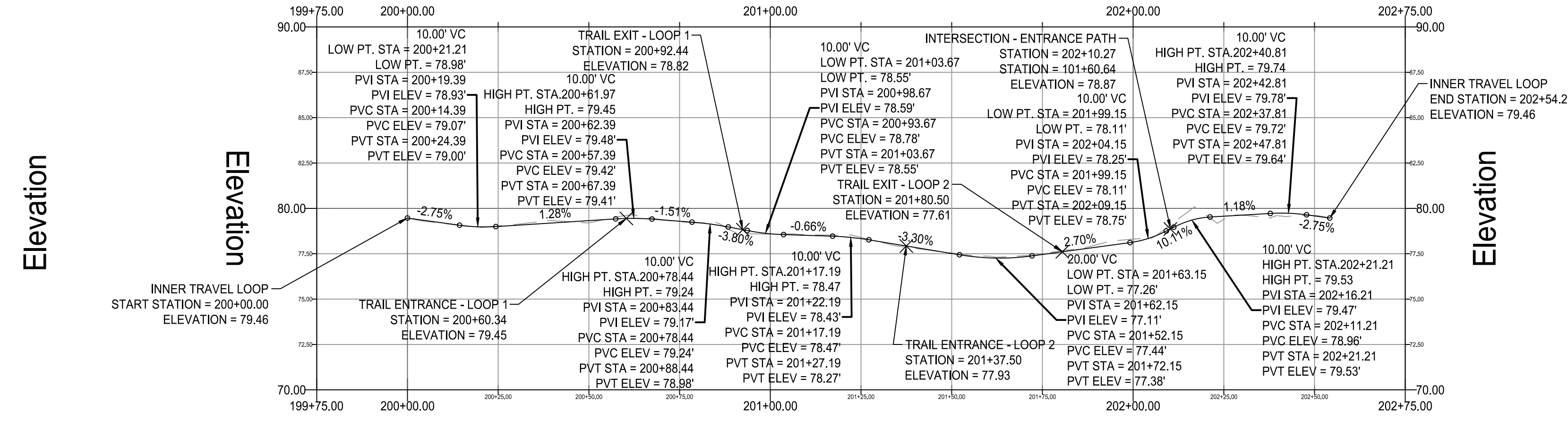
TRAIL CROSS-SECTIONS
HERITAGE PARK ATV TRAIL
LOCATION:
21311 COURTHOUSE HWY
WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
CHECK: KMS
PROJ#: 004039.22
DATE: 12/02/2022
SCALE: 1"=2'

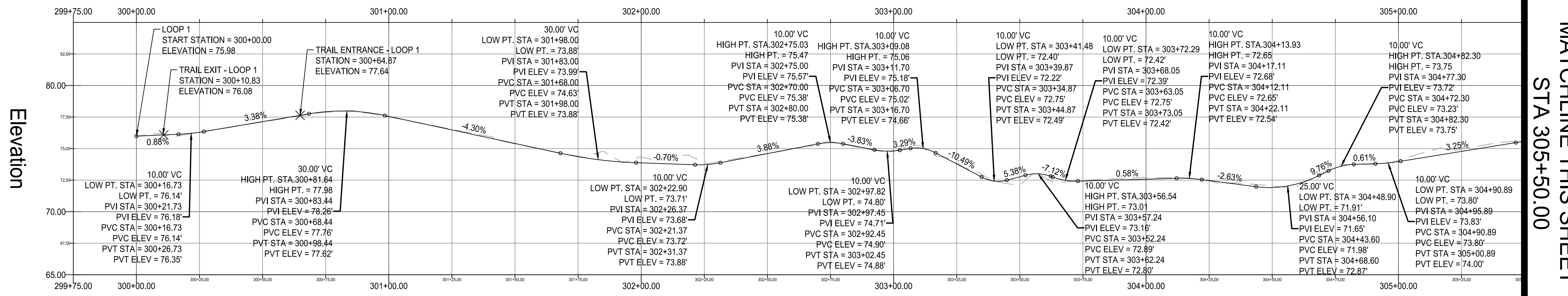
SHEET
CG101
SHEET: 15 OF 23



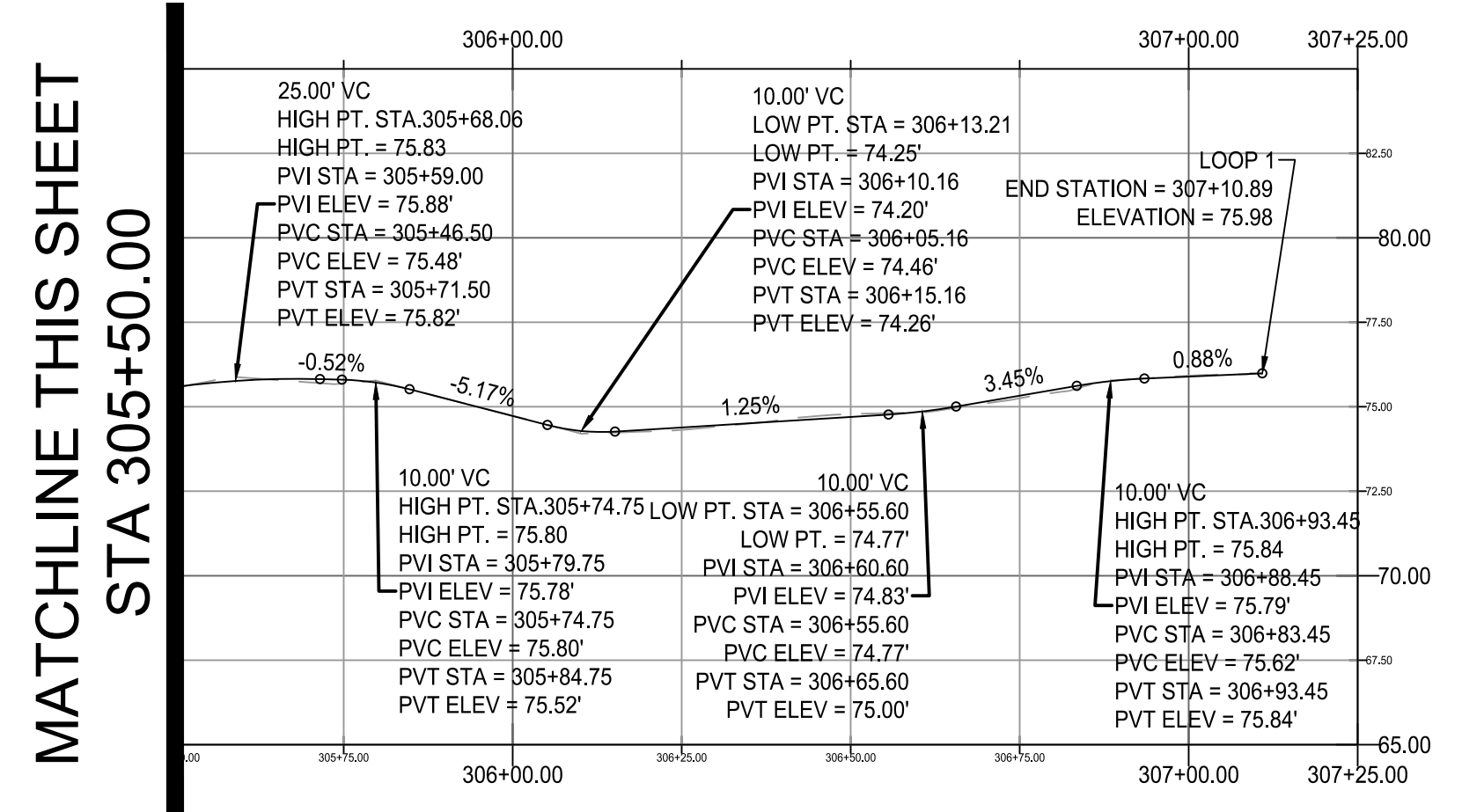
TWO-WAY ATV ENTRANCE TRAIL PROFILE
 HORIZONTAL SCALE: 1"=25'
 VERTICAL SCALE: 1"=5'



ONE-WAY ATV TRAIL - INNER TRAVEL LOOP
 HORIZONTAL SCALE: 1"=25'
 VERTICAL SCALE: 1"=5'



ONE-WAY ATV TRAIL - LOOP 1
 HORIZONTAL SCALE: 1"=25'
 VERTICAL SCALE: 1"=5'

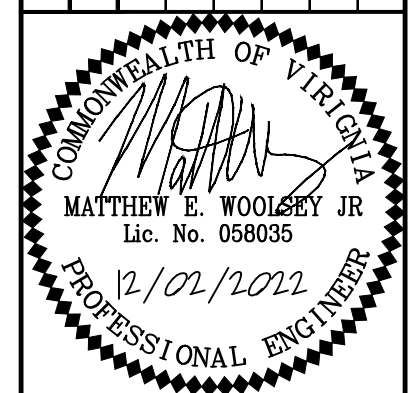


ONE-WAY ATV TRAIL - LOOP 1 CONTINUED
 HORIZONTAL SCALE: 1"=25'
 VERTICAL SCALE: 1"=5'

MATCHLINE THIS SHEET
 STA 305+50.00



REVISION		DESCRIPTION	
NO.	DATE	NO.	DATE



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HERITAGE PARK ATV TRAIL
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA
 LOCATION: 21311 COURTHOUSE HWY

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=25'

SHEET
CG102
 SHEET: 16 OF 23

GENERAL

- METHOD "A" PIPE BEDDING SHALL BE USED FOR ALL TYPES OF PIPE CULVERTS WITHIN THE APPLICABLE HEIGHT OF COVER NOTED IN THE STANDARD PC-1 TABLES UNLESS OTHERWISE NOTED ON THE PLANS.
- H = HEIGHT OF COVER MEASURED FROM TOP OF CULVERT TO FINISHED GRADE.
- D = EXCAVATION DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.

CIRCULAR PIPE

- D = OUTSIDE DIAMETER OF PIPE.
- d = INSIDE DIAMETER OF PIPE.
- X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
X = 12" WHERE d IS LESS THAN 36"
X = 18" WHERE d IS 36" AND GREATER.
- WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
- REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
- BEDDING MATERIAL AND CLASS I BACKFILL MATERIAL MAY BE ELIMINATED FOR SHOULDER SLOT INLET (D-10) OUTLET PIPES INSTALLATIONS.

ELLIPTICAL PIPE

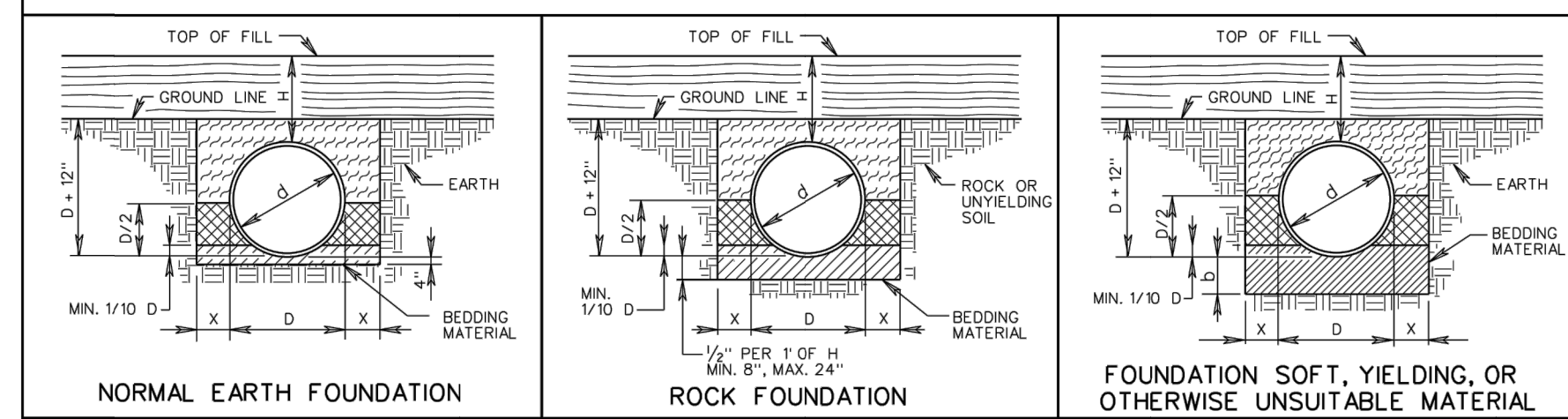
- S₁ = OUTSIDE SPAN DIMENSION OF PIPE.
- S₂ = INSIDE SPAN DIMENSION OF PIPE.
- R = OUTSIDE RISE DIMENSION OF PIPE.
- X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
X = 12" WHERE S₂ IS LESS THAN 36"
X = 18" WHERE S₂ IS 36" AND GREATER.
- WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S₂ IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.
- REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S₂ IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.

PIPE ARCH

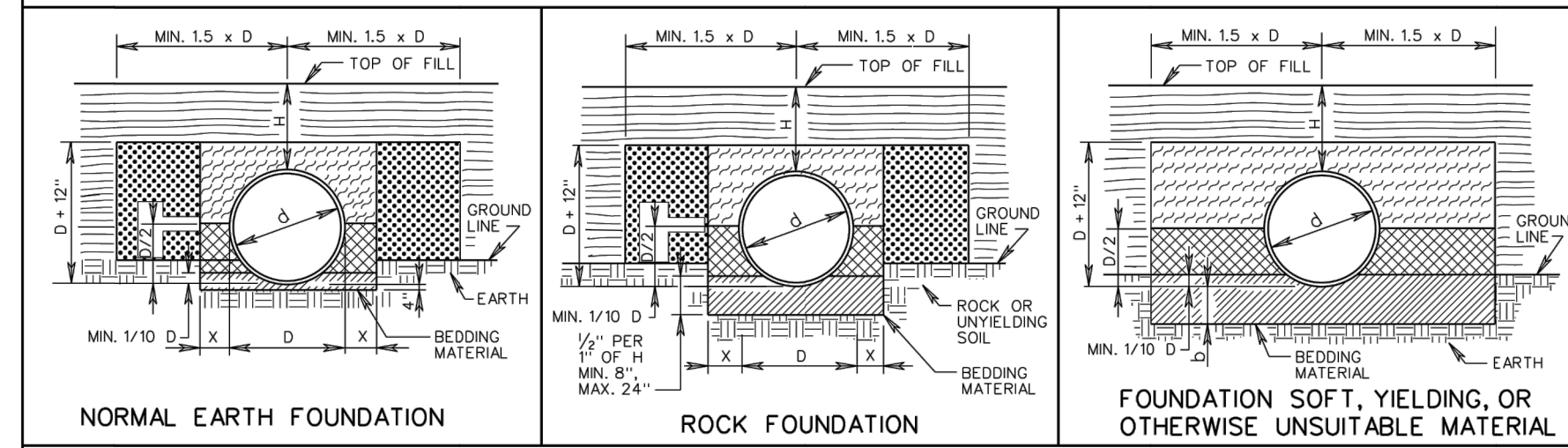
- S = SPAN DIMENSION OF PIPE.
- R = RISE DIMENSION OF PIPE.
- B = SEE PC-1 TABLE FOR APPLICABLE PIPE MATERIAL.
- X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
X = 12" WHERE S₂ IS LESS THAN 36"
X = 18" WHERE S₂ IS 36" AND GREATER.
- WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S₂ IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.
- REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S₂ IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.

SPECIFICATION REFERENCE	INSTALLATION OF PIPE CULVERTS & STORM SEWERS GENERAL NOTES	VDOT ROAD AND BRIDGE STANDARDS
302 303	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE SHEET 1 OF 1 107.00

NO PROJECTION OF PIPE ABOVE GROUND LINE



PIPE PROJECTION ABOVE GROUND LINE



LEGEND:

- BEDDING MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- FOR PLASTIC PIPE: 6" MINIMUM CLASS I BACKFILL MATERIAL PLACED DIRECTLY OVER PIPE AND 6" REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- EMBANKMENT
- REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- FOR ALL OTHER PIPE: REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.

NOTES:

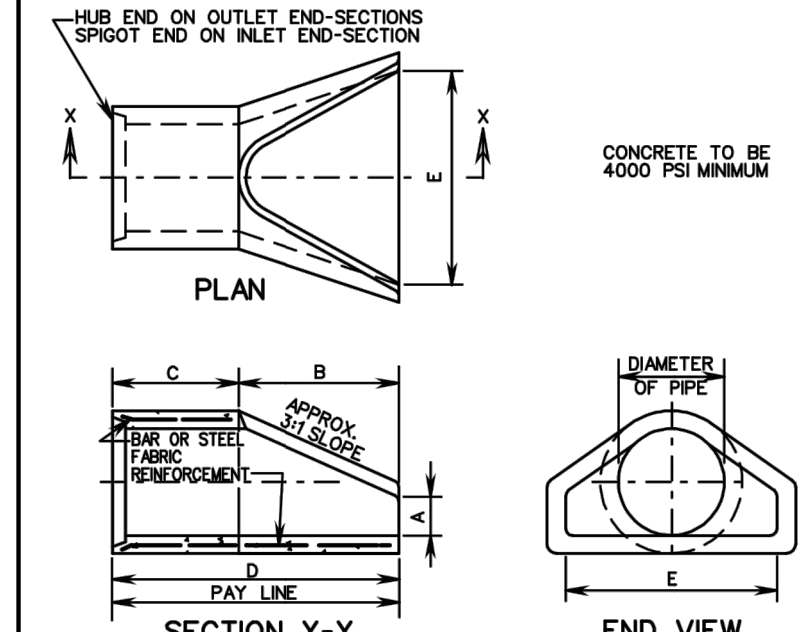
FOR GENERAL NOTES ON PIPE BEDDING, SEE INSTALLATION OF PIPE CULVERTS AND STORM SEWERS GENERAL NOTES ON SHEET 107.00.

CRUSHED CLASS CONFORMING TO THE SIZE REQUIREMENTS FOR CRUSHER RUN AGGREGATE SIZE 25 AND 28 MAY BE USED IN PLACE OF CLASS I BACKFILL.

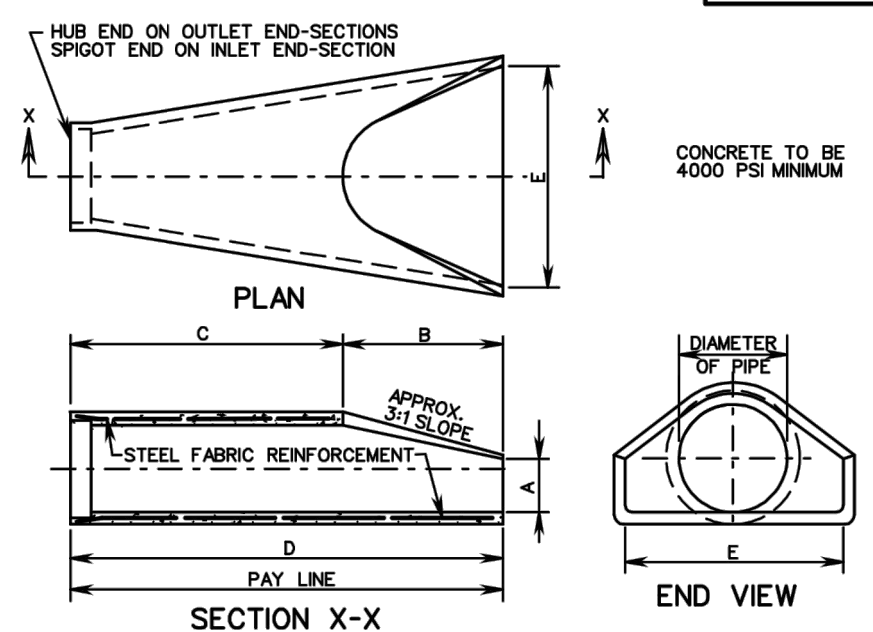
SPECIFICATION REFERENCE	INSTALL. OF PIPE CULVERTS AND STORM SEWERS CIRC. PIPE BEDDING AND BACKFILL - METHOD "A"	VDOT ROAD AND BRIDGE STANDARDS
302 303	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE SHEET 1 OF 1 07.19

1
CG501

END-SECTION 12" - 60" PIPE

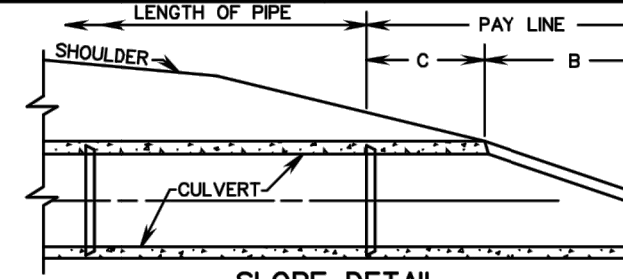


ALTERNATE END-SECTION 12" - 60" PIPE



PIPE DIAMETER	A	B	C	D	E
12"	4"	2'-0"	2'-0"	4'-0"	2'-0"
15"	6"	2'-3"	1'-9"	4'-0"	2'-6"
18"	8"	2'-3"	1'-9"	4'-0"	3'-0"
21"	9 1/2"	2'-11"	2'-11"	5'-0"	3'-6"
24"	10 1/2"	3'-7"	2'-6"	6'-1"	4'-0"
27"	10 1/2"	4'-0"	2'-11"	8'-1"	4'-8"
30"	1'-0"	4'-8"	1'-7 1/2"	8'-11"	5'-0"
33"	1'-1/2"	4'-10 1/2"	2'-3 1/2"	7'-10 1/2"	5'-8"
36"	1'-3"	5'-3"	2'-10 1/2"	8'-10 1/2"	6'-0"
42"	1'-8"	5'-3"	2'-11"	8'-2"	6'-8"
48"	2'-0"	6'-0"	3'-3"	8'-2"	7'-0"
54"	2'-3"	5'-8"	2'-8 1/2"	8'-2 1/2"	7'-8"
60"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"

PIPE DIAMETER	A	B	C	D	E
12"	4"	2'-0"	4'-11"	6'-1"	2'-0"
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"
18"	8"	2'-3"	3'-10"	6'-1"	3'-0"
21"	9"	2'-11"	3'-2"	6'-1"	3'-6"
24"	10"	3'-7"	2'-8"	6'-3"	4'-0"
27"	10 1/2"	4'-0"	2'-7 1/2"	6'-10 1/2"	4'-8"
30"	1'-0"	4'-8"	1'-7 1/2"	8'-10 1/2"	5'-0"
33"	1'-1/2"	4'-10 1/2"	3'-3 1/2"	8'-10 1/2"	5'-8"
36"	1'-3"	5'-3"	2'-10 1/2"	8'-10 1/2"	6'-0"
42"	1'-8"	5'-3"	2'-11"	8'-2"	6'-8"
48"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"
54"	2'-3"	5'-8"	2'-11"	8'-4"	7'-8"
60"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"



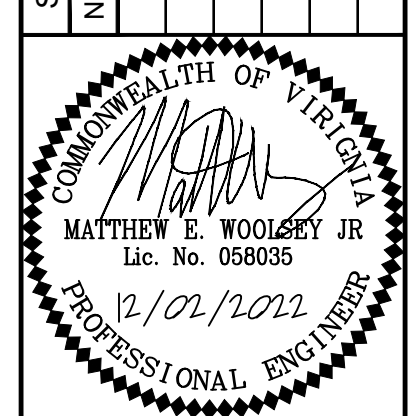
NOTES:

PIPE LENGTHS SHOWN ON PLANS ARE BASED ON END-SECTION DESIGN SHOWN ON THE LEFT. IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE DESIGN SHOWN ON THE RIGHT, LENGTHS WILL BE REDUCED BY THE DIFFERENCE IN DIMENSION "D".

SPECIFICATION REFERENCE	FLARED END SECTION 12" - 60" CONCRETE PIPE CULVERTS	VDOT ROAD AND BRIDGE STANDARDS
302	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE SHEET 1 OF 1 102.01

2
CG501

REVISION	DESCRIPTION
DATE	
NO.	
DATE	
NO.	

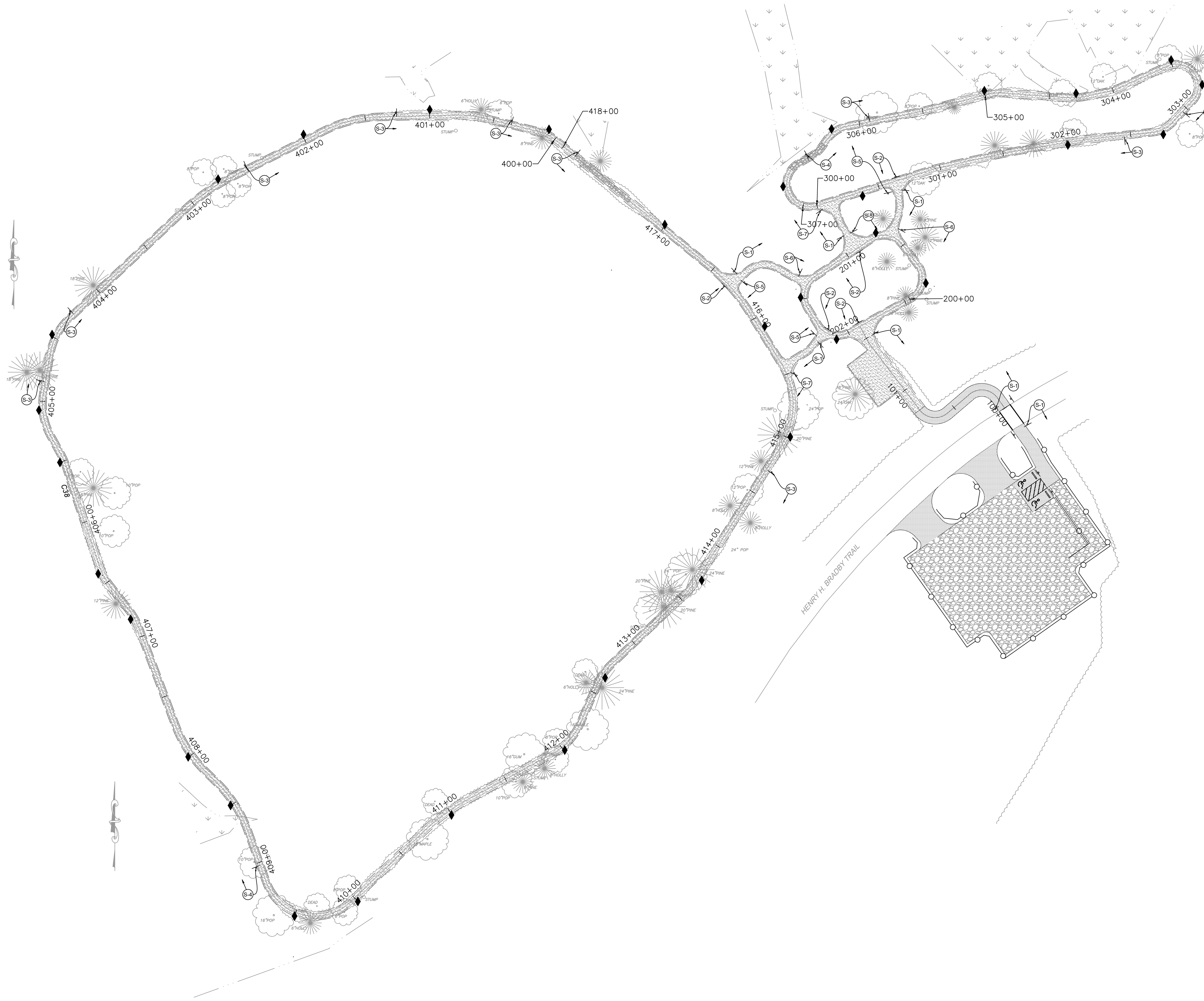


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PARKING LOT GRADING DETAILS
HERITAGE PARK ATV TRAIL
LOCATION:
21311 COURTHOUSE HWY
WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
CHECK: KMS
PROJ#: 004039.22
DATE: 12/02/2022
SCALE: N/A

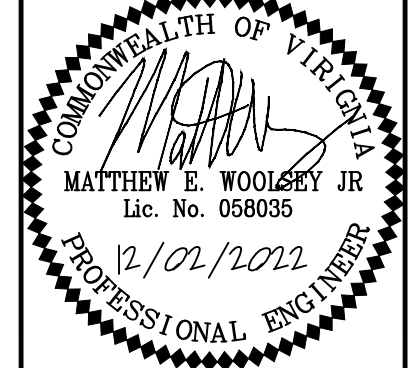
SHEET
CG501
SHEET: 19 OF 23



NOTES

1. THIS IS AN OVERALL "CONCEPTUAL" TRAIL SIGNAGE PLAN. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PROPOSED SIGNS IN THE FIELD WITH THE COUNTY PRIOR TO CONSTRUCTION.
2. TRAIL SIGNS MAY BE POST MOUNTED OR TREE MOUNTED. CONTRACTOR SHALL COORDINATE SIGN INSTALLATION METHODS IN THE FIELD WITH THE COUNTY PRIOR TO CONSTRUCTION.
3. ALL PROPOSED SIGN COLORS AND SHAPES SHALL FOLLOW THE MUTCD (CURRENT EDITION) STANDARDS UNLESS OTHERWISE NOTED.
4. ALL TRAIL SIGNAGE SHALL BE RETROREFLECTIVE.
5. SEE SHEET CM501 FOR NON-STANDARD SIGN DETAILS.
6. SEE SHEET CM501 FOR TRAIL SIGN MOUNTING DETAILS.
7. THE MINIMUM MOUNTING HEIGHT FOR TRAIL SIGNS SHALL BE 3'-6" AND THE MAXIMUM MOUNTING HEIGHT FOR TRAIL SIGNS SHALL BE 4'-0", MEASURED FROM THE TRAIL TREAD TO BOTTOM OF SIGN.
8. THE MINIMUM LATERAL DISTANCE FROM THE EDGE OF TRAIL TREAD TO THE NEAREST EDGE OF SIGN SHALL BE 3'-0".
9. SIGN DIMENSIONS LISTED ARE MINIMUMS.

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LEGEND

- S-1 → SIGN LABEL AND FACING DIRECTION (NEW SIGN - FABRICATED)
- POST MOUNTED OR TREE MOUNTED SIGN
- ◆ ATV TRAIL REASSURANCE SIGN POST MOUNTED OR TREE MOUNTED (EXACT LOCATION AND INSTALLATION METHOD TO BE COORDINATED IN FIELD BY CONTRACTOR) ORIENTATION: PERPENDICULAR TO TRAIL SYMBOL: FEDERAL RECREATION RL-150 OR R-170 COLOR: WHITE LEGEND ON BROWN BACKGROUND MINIMUM SIZE: 6"x6" SEE SHEET CM501, DETAIL 4

SIGN TABLE			
S-1	R1-1	STOP	18"x18"
S-2	W1-6R	ARROW - RIGHT	24"x12"
S-3	W1-2L	CURVE - LEFT	18"x18"
S-4	W1-11L	HAIRPIN CURVE - LEFT	18"x18"
S-5	R5-1A	WRONG WAY	18"x12"
S-6	N.S.*	TRAIL ENTRANCE	24"x24"
S-7	N.S.*	TRAIL EXIT	24"x24"

*NON-STANDARD SIGN. SEE SHEET CM501 FOR SIGN DETAILS

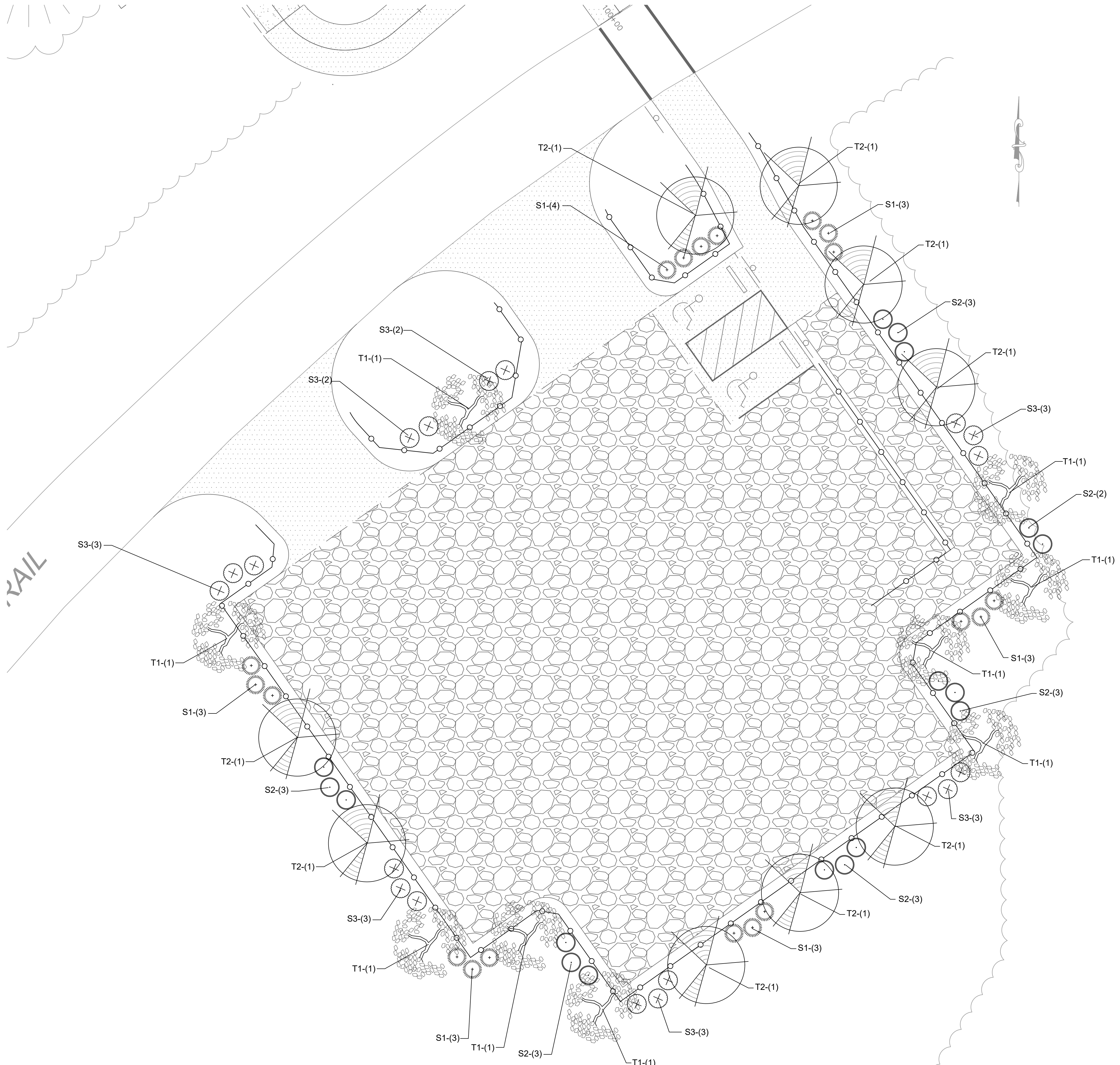
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TRAIL SIGNING PLAN
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
 PROJ#: 004039.22
 DATE: 12/02/2022
 SCALE: 1"=40'

SHEET
CM101
 SHEET: 20 OF 23





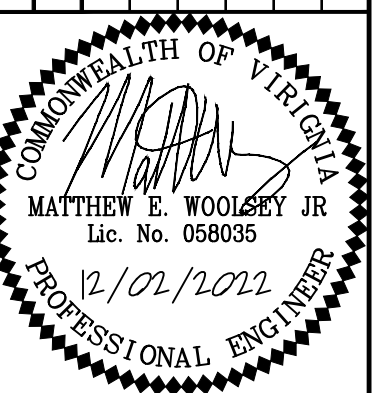
NOTES

- TURF ESTABLISHMENT IN ALL DENUDED GREEN AREAS THAT ARE NOT LANDSCAPED WILL BE VIA PERMANENT SEEDING. (SEE SHEET CD501 FOR DETAILS)
- ANSI A300 INDUSTRY STANDARDS OF PROPER PRUNING METHODS WILL BE USED FOR THE MAINTENANCE OF ALL TREES WITH APPROPRIATE LIMBING UP OR THINNING OUT OF BRANCHES.
- ALL PRUNING WILL BE PERFORMED BY A CERTIFIED ARBORIST.
- SEE SHEET LP501 FOR PLANTING DETAILS, NOTES, & PLANT LIST W/ QUANTITIES

LEGEND

- NELLIE R STEVENS HOLLY T1
- RED MAPLE T2
- AUTUMN CARNATION AZALEA S1
- HOOGENDORN HOLLY S2
- CARISSA HOLLY S3
- TIMBER RAIL FENCE

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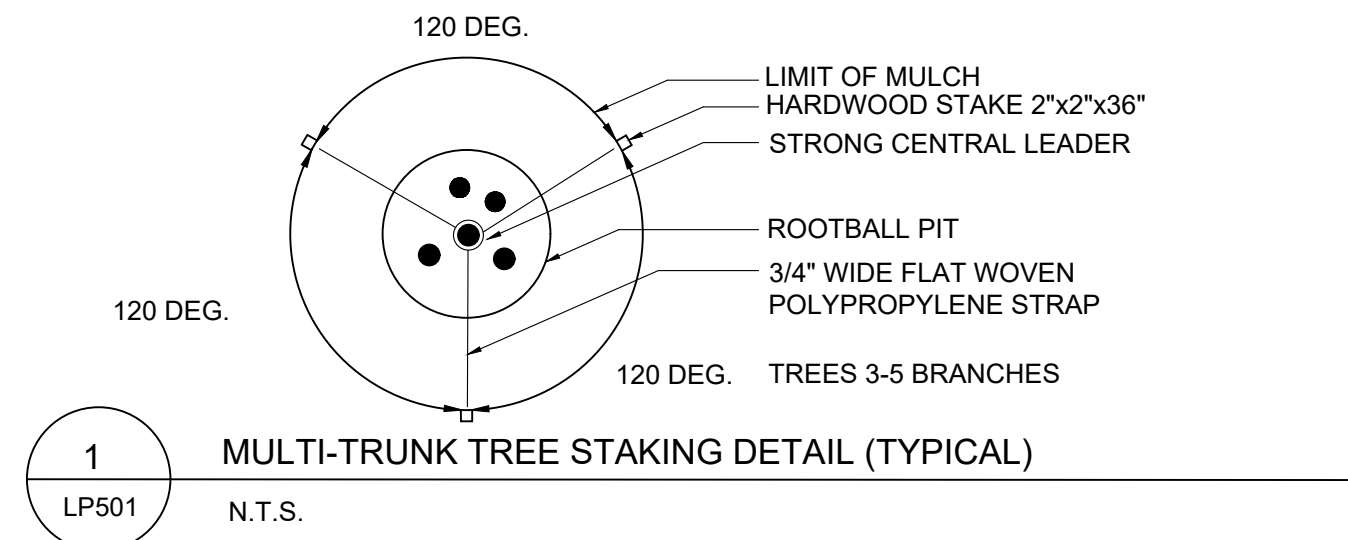
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PARKING LOT LANDSCAPING PLAN
HERITAGE PARK ATV TRAIL
 LOCATION:
 21311 COURTHOUSE HWY
 WINDSOR, ISLE OF WIGHT COUNTY, VIRGINIA

AUTHOR: MEW
 CHECK: KMS
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 DATE: 12/02/2022
 SCALE: 1"=10'

SHEET
LP101
 SHEET: 22 OF 23

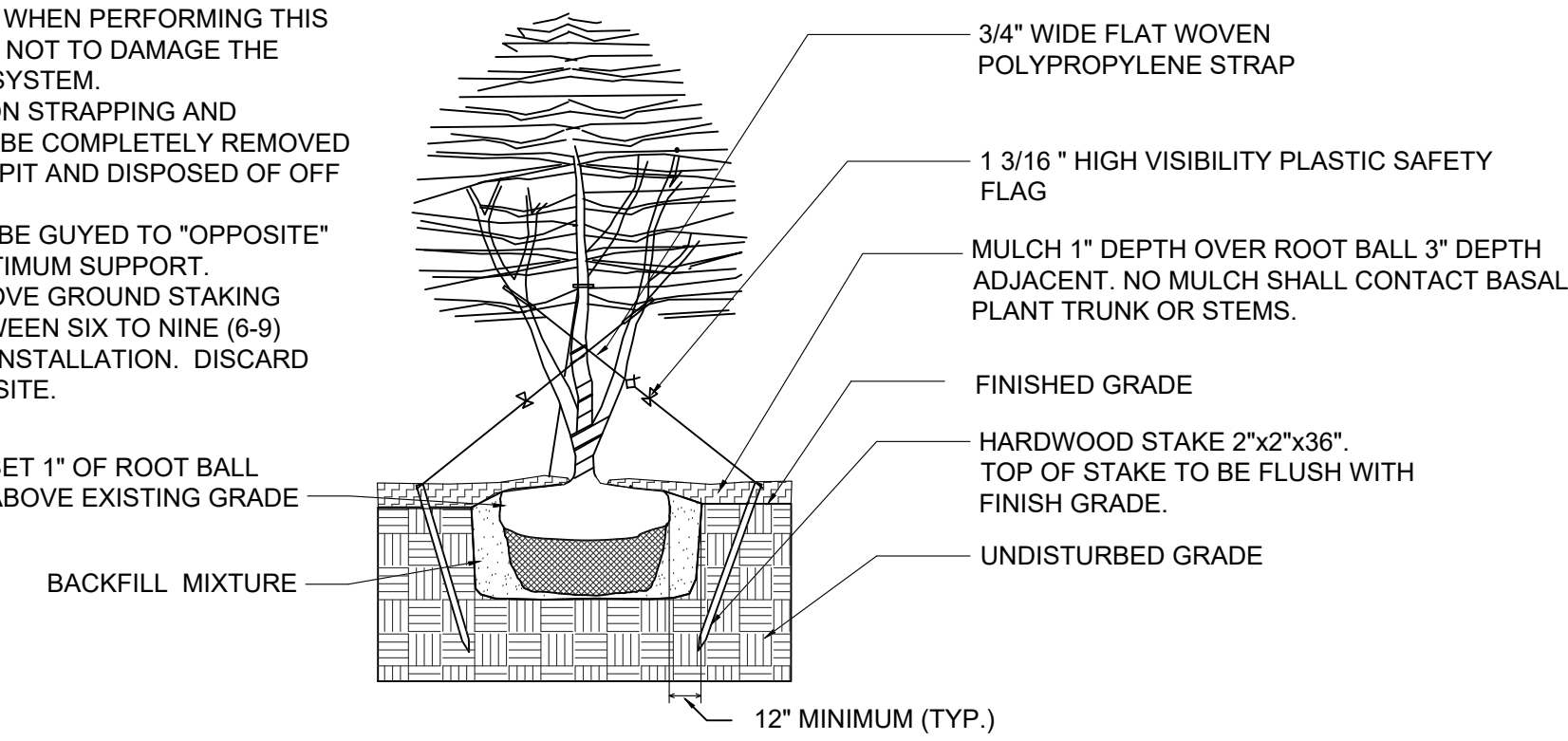




1 MULTI-TRUNK TREE STAKING DETAIL (TYPICAL)

LP501 N.T.S.

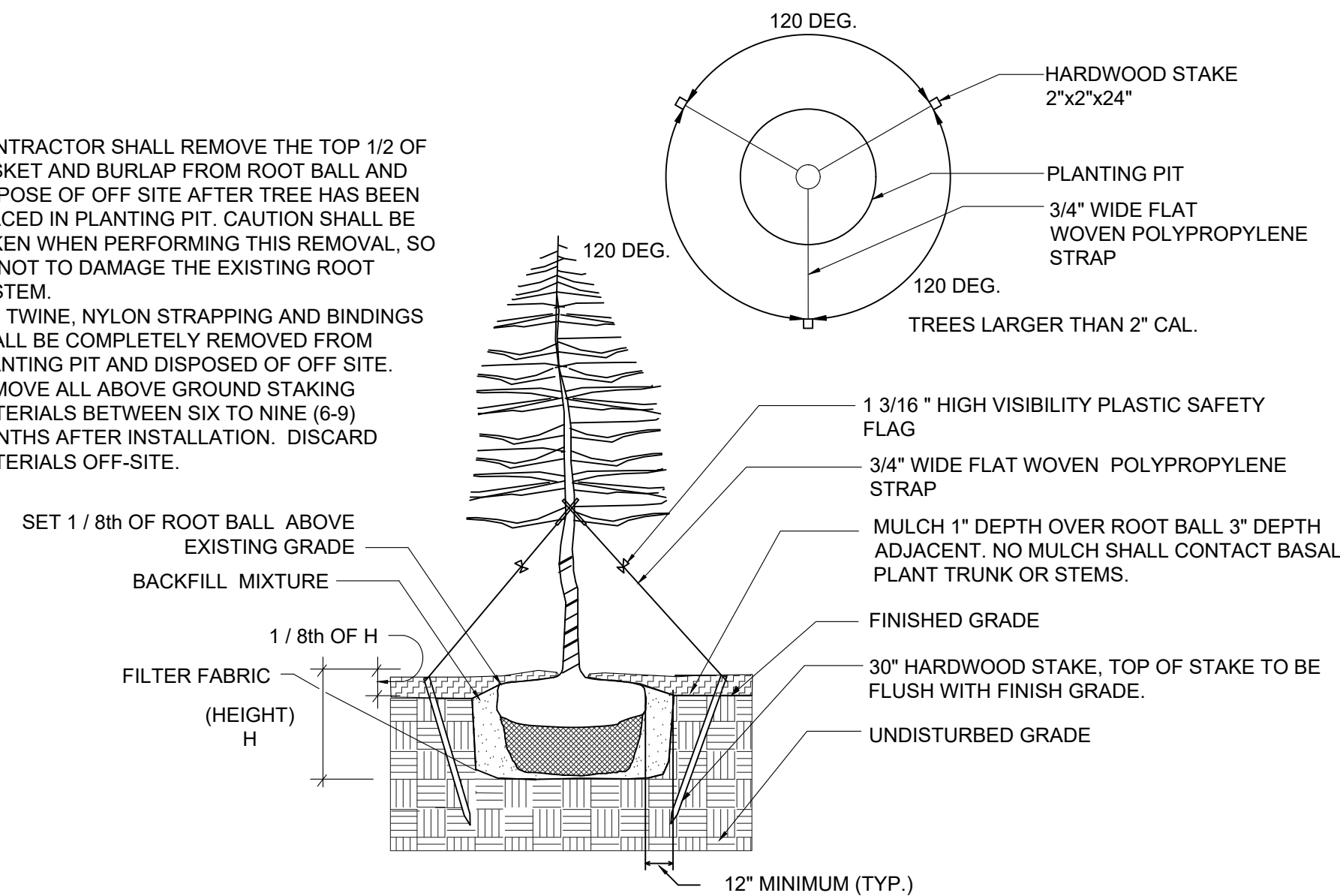
- NOTE:
- CONTRACTOR SHALL REMOVE THE TOP 1/2 OF BASKET AND BURLAP FROM ROOT BALL AND DISPOSE OF OFF SITE AFTER TREE HAS BEEN PLACED IN PLANTING PIT. CAUTION SHALL BE TAKEN WHEN PERFORMING THIS REMOVAL, SO AS NOT TO DAMAGE THE EXISTING ROOT SYSTEM.
 - ALL TWINE, NYLON STRAPPING AND BINDINGS SHALL BE COMPLETELY REMOVED FROM PLANTING PIT AND DISPOSED OF OFF SITE.
 - TRUNKS ARE TO BE GUYED TO "OPPOSITE" STAKES FOR OPTIMUM SUPPORT.
 - REMOVE ALL ABOVE GROUND STAKING MATERIALS BETWEEN SIX TO NINE (6-9) MONTHS AFTER INSTALLATION. DISCARD MATERIALS OFF-SITE.



2 MULTI-TRUNK TREE WELL DETAIL (TYPICAL)

LP501 N.T.S.

- NOTE:
- CONTRACTOR SHALL REMOVE THE TOP 1/2 OF BASKET AND BURLAP FROM ROOT BALL AND DISPOSE OF OFF SITE AFTER TREE HAS BEEN PLACED IN PLANTING PIT. CAUTION SHALL BE TAKEN WHEN PERFORMING THIS REMOVAL, SO AS NOT TO DAMAGE THE EXISTING ROOT SYSTEM.
 - ALL TWINE, NYLON STRAPPING AND BINDINGS SHALL BE COMPLETELY REMOVED FROM PLANTING PIT AND DISPOSED OF OFF SITE.
 - REMOVE ALL ABOVE GROUND STAKING MATERIALS BETWEEN SIX TO NINE (6-9) MONTHS AFTER INSTALLATION. DISCARD MATERIALS OFF-SITE.



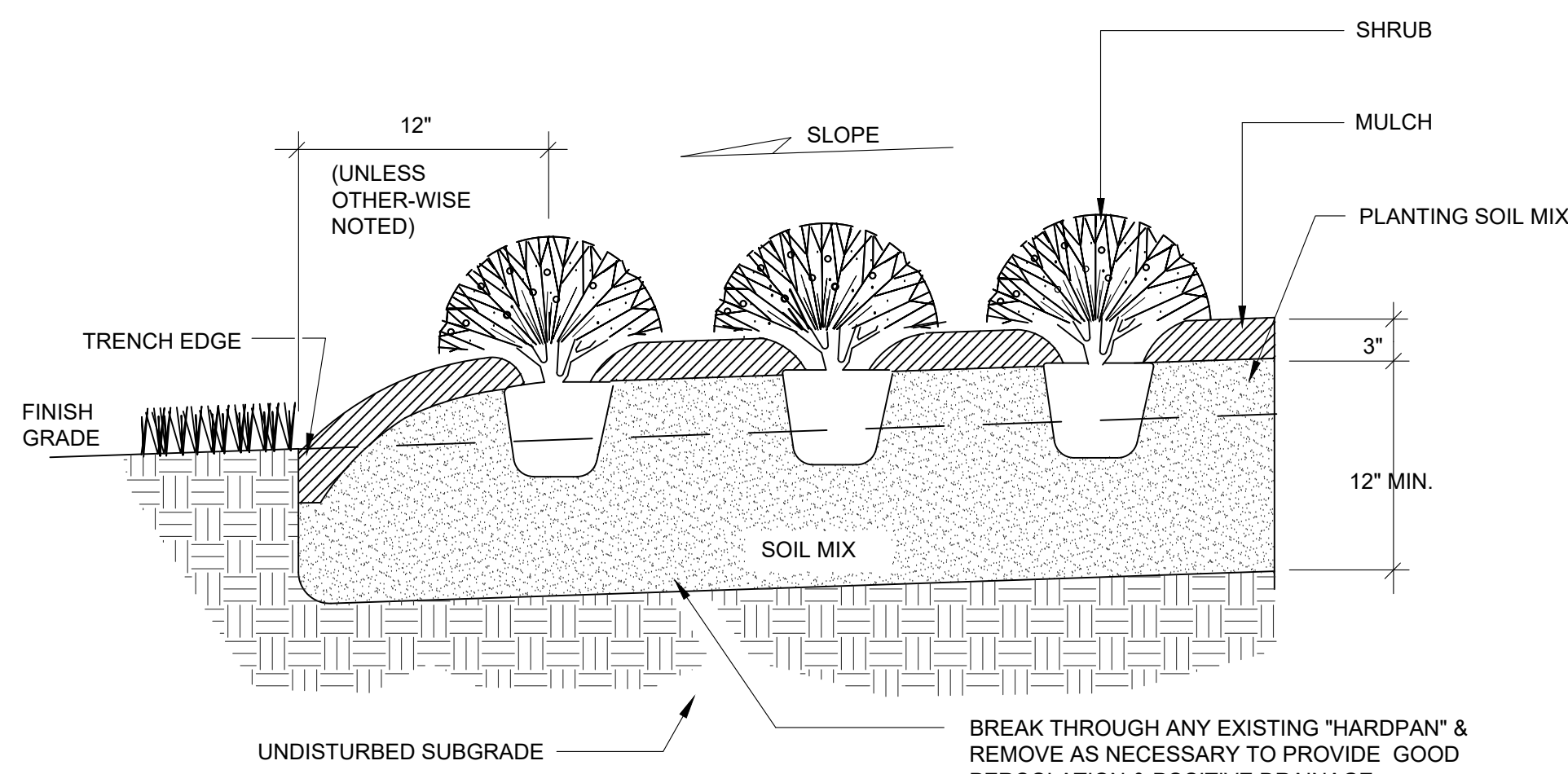
3 TRENCH EDGE DETAILS (TYPICAL)

LP501 N.T.S.

NOTE:
TRENCH EDGE SHALL BE USED IN ANY INSTANCE WHERE A PLANTING BED MEETS A SIDEWALK, CURB OR TURF AREAS.

4 TREE PLANTING DETAIL (TYPICAL)

LP501 N.T.S.



5 SHRUB PLANTING DETAIL (TYPICAL)

LP501 N.T.S.

ISLE OF WIGHT LANDSCAPE REQUIREMENTS

FRONTAGE ZONE: N/A
 BUFFER ZONE: N/A
 PARKING ZONE: 60 POINTS PER 500 SQUARE FEET OF ZONE AREA
 PARKING ZONE = 10'-WIDTH x 445'-LOT PERIMETER = 4450 SF ZONE AREA
LANDSCAPING POINTS = 534 POINTS REQUIRED

FOUNDATION ZONE: N/A
 SCREENING ZONE: N/A

LANDSCAPE POINT CALCULATIONS

FENCE (LESS THAN 3'):
 1.5 POINTS/10 LF x 430 LF OF FENCE = **64 POINTS**

MEDIUM TREES:
 20 POINTS PER TREE x 18 TREES = **360 POINTS**

MEDIUM SHRUB:
 2 POINTS PER SHRUB x 55 SHRUBS = **110 POINTS**

TOTAL POINTS = 534 POINTS

LANDSCAPE PLANTING NOTES

- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO HAVE THE LOCATIONS OF THEIR UNDERGROUND UTILITIES MARKED PRIOR TO BEGINNING WORK. CAUTION SHALL BE EXERCISED TO AVOID INTERRUPTIONS OF SERVICES. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ALL EXISTING BURIED UTILITIES DAMAGED DURING CONSTRUCTION.
- THE QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE SOLELY FOR THE INFORMATION OF THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS TO VERIFY THE QUANTITIES AS SHOWN ON THE PLANTING PLAN. ANY DIFFERENCE IN THE QUANTITIES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER/ OWNER REPRESENTATIVE FOR CLARIFICATION.
- DO NOT SCALE FROM DRAWINGS.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA), INC. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE FEDERAL, STATE AND COUNTY LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL. BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES.
- THE CONTRACTOR SHALL REMOVE ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR DAMAGED BRANCHES, IN ACCORDANCE WITH THE ANLA TO PRESERVE THE NATURAL CHARACTER OF THE TREE.
- ALL PLANTING PITS SHALL BE FREE OF ROCKS, GRAVEL AND OTHER DEBRIS. ALL PLANTING PITS ARE TO BE PREPARED IN ACCORDANCE WITH THE PLANTING DETAILS.
- PLANT QUALITY: ALL PLANTS SHALL BE SOUND, FREE OF PLANT DISEASE OR PESTS AND SHALL HAVE A HEALTHY, NORMAL ROOT SYSTEM. ALL SINGLE STEMMED TREES TO HAVE ONLY ONE DOMINANT LEADER. CO-DOMINANT LEADERS ON LARGE, SINGLE STEMMED TREES SHALL BE REJECTED.
- NO SUBSTITUTION OF PLANT SPECIES OR VARIETIES SHALL BE MADE WITHOUT PRIOR WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, PRUNING, MOWING, FERTILIZING, ETC. AS DIRECTED BY THE OWNER'S REPRESENTATIVE) OF PLANTING AREAS AND GRASSED AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK AND DURING THE COURSE OF THE GUARANTEE PERIOD) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUALITY AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- BURLAP MATERIAL ON BALLED AND BURLAPPED PLANTS SHALL BE THE TYPE WHICH WILL DECAY WITHIN TWO YEARS (NO SYNTHETICS, PLASTICS, OR TREATED, ETC.). AFTER SETTING BALLED AND BURLAPPED PLANTS IN THE PLANTING PIT, ALL BINDER TWINE SHALL BE CUT AND THE BURLAP SHALL BE REMOVED FROM THE TOP 1/2 OF THE ROOTBALL.
- ALL SHRUB BED AREAS SHALL BE TOP-DRESSED WITH NO MORE THAN A THREE INCH (3") MAXIMUM LAYER OF DARK BROWN/WALNUT COLOR ENHANCED DOUBLE SHREDDED HARDWOOD MULCH. A MAXIMUM OF ONE AND ONE HALF INCHES (1½") SHALL BE APPLIED OVER TREE ROOT BALLS. NO MULCH SHALL COME IN CONTACT WITH TREE TRUNKS.
- SPRAY TREES AND SHRUBS WITH ANTI-DESICCANT, PRIOR TO TRANSPLANTING AND TRANSPORTING IF FOLIAGE IS PRESENT. ALL PLANT MATERIAL MUST BE PROTECTED DURING SHIPMENT FROM WIND BY A TARPULIN.
- THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT, AT ANY TIME UNTIL THE END OF THE GUARANTEE PERIOD, ANY AND/OR ALL PLANT MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS AS SET FORTH HERE IN AND IN THE PLANT SCHEDULE.
- ALL PLANT MATERIALS SHALL BE PLANTED AS PER THE PLANTING DETAILS OR THE PLANTINGS NOTES.
- BACKFILL MIXTURE SHALL CONTAIN NUTRI-GREEN OR SIMILAR COMPOST. QUANTITY USED SHALL BE 1/3 OF THE VOLUME OF THE PLANTING PIT. AMENDMENT SHALL BE MIXED THOROUGHLY WITH THE ENTIRE CONTENTS OF PLANTING PIT, AND THEN BACKFILL AROUND THE ROOTBALL.
- ALL PLANT MATERIAL SHALL BE PROPERLY WATERED IMMEDIATELY AFTER PLANTING BY THE CONTRACTOR. WATER WILL BE APPLIED AT A RATE THAT WILL COMPLETELY SOAK THE ENTIRE ROOTBALL REGARDLESS OF WEATHER CONDITIONS. THEREFORE, IF THE HEIGHT OF THE ROOTBALL IS 24", THEN THE PLANT SHOULD BE WATERED TO A DEPTH OF 24".
- IF SODDING IS DONE AT A TIME THAT IS NOT THE APPROPRIATED PLANTING SEASON, TEMPORARY GRASSING SHALL BE USED. TEMPORARY GRASSING SHALL BE PERENNIAL RYE. THE LANDSCAPE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR SODDING ALL TURF AREAS AS INDICATED IN THE PLAN DURING THE NEXT APPROPRIATED PLANTING SEASON. ALL LAWN AREAS ARE TO BE PLANTED WITH BERMUDA "PATRIOT" SOD.
- PREFERABLE PLANTING SCHEDULE AND PLANTING PREPARATION BETWEEN OCTOBER 15TH - APRIL 15TH AND WHEN DAY AND NIGHT TIME TEMPERATURES EXCEED THIRTY-NINE (39) DEGREES.
- ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL FABRIC PRIOR TO PLANTING. EROSION CONTROL FABRIC SHALL BE OF THE TYPE THAT DECOMPOSES AFTER 18 MONTHS TO 2 YEARS.
- CONTRACTOR TO APPLY FREEHAND PRE-EMERGENT HERBICIDE TO ALL MULCHED AREAS IN MARCH AND AUGUST. INITIAL APPLICATION TO TOPSOIL/PLANTING MIX UNDER MULCH. APPLY AS RECOMMENDED BY MANUFACTURER.
- PLANTS THAT FAIL TO STABILIZE AND MAINTAIN AN UPRIGHT POSITION AFTER SIX MONTHS OF ACTIVE GROWING SEASON WILL BE EITHER REPLACED OR RE-PLANTED CORRECTLY AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- PLANTS SHALL BE INSTALLED BY A QUALIFIED CONTRACTOR (TEN YEARS PLUS OF LIKE EXPERIENCE INSTALLING COMMERCIAL/RIGHT-OF-WAY LANDSCAPING AND CAPABLE OF PROVIDING ROUTINE PLANT CARE, REQUIRED LANDSCAPE MAINTENANCE, AND TRAFFIC CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD.)
- WARRANTY PERIOD FOR ALL PLANT MATERIAL IS 100% REPLACEMENT FOR MINIMUM 1 YEAR.

PLANT LIST

TREES	KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	MINIMUM SIZE	NOTES
	T1	9	Ilex x 'Nellie R. Stevens'	Nellie R Stevens Holly	8'-10' HT.	tree form
T2	9	Acer rubrum	Red Maple	2-2 1/2" CAL.		

SHRUBS	KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	MINIMUM SIZE	NOTES
	S1	19	Azalea ENCORE autumn carnation 'Roblec'	Autumn Carnation Encore Azalea	3 GAL. (MIN 24" HGT)	
S2	17	Ilex crenata 'Hoogendorn'	Hoogendorn Japanese Holly	3 GAL. (MIN 24" HGT)		
S3	19	Ilex comuta 'Carissa'	Carissa Holly	3 GAL. (MIN 24" HGT)		

SUBMISSION NO.	DATE	NO.	DATE	REVISION DESCRIPTION

COMMONWEALTH OF VIRGINIA
 MATTHEW E. KOOLEST JR.
 Lic. No. 056005
 12/02/2022
 PROFESSIONAL ENGINEER

ISLE OF WIGHT COUNTY, VIRGINIA
 Local Roots, Global Reach

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