

GENERAL LAND CONSERVATION NOTES (FAIRFAX COUNTY PUBLIC FACILITIES MANUAL-SECTION 11)

11-0406.1 (38-93-PFM) NO DISTURBED AREA WHICH IS NOT ACTIVELY BEING WORKED SHALL REMAIN DENUDED FOR MORE THAN 14 CALENDAR DAYS UNLESS OTHERWISE AUTHOR-IZED BY THE DIRECTOR

11-0406.2 ALL E&S CONTROL MEASURES APPROVED WITH THE PHASE I E&S CONTROL PLAN SHALL BE PLACED AS THE FIRST

11-0406.3 (38-93-PFM) ALL STORM AND SANITARY SEWER LINES NOT IN STREETS SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL. NO MORE THAN 500' (150 M) SHALL BE OPEN AT ANY ONE TIME. 11-0406.4 (38-93-PFM) ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND

11-0406.5 (38-93-PFM) ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY (AS SOON AS POSSIBLE BUT NO LATER THAN 48 HR) AFTER COMPLETION OF GRADING. STRAW OR HAY MULCH IS REQUIRED. ALL SOIL STOCKPILES SHALL BE SEEDED AND MULCHED WITHIN

11-0406.6 DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS, MAIN-TAINED AND MODIFIED DURING CONSTRUCTION PROGRESS AS REQUIRED.

11-0406.7 ANY DISTURBED AREA NOT COVERED BY § 11-0406.1 AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2

11-0406.8 AT THE COMPLETION OF ANY PROJECT CON-STRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

- MS-1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN 7 DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. (TEMPORARY AND PERMANENT STABILIZATION SHALL BE PER VESCH SEC. 3.31 & 3.32)
- MS-2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY 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.
- MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE
 - AREA, AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES. SURFACE RUNOFF FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY
 - SEDIMENT BASINS. THE MINIMUM STORAGE CAPACITY FOR A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A TWENTY-FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL APPLY TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- MS-7. 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 YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.
- MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES 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
- MS-12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT, AND STABILIZE THE WORK AREA TO THE GREATEST POSSIBLE EXTENT DURING CONSTRUCTION. NON-ERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON-ERODIBLE COVER MATERIALS.
- MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NON-ERODIBLE MATERIAL SHALL BE PROVIDED.
- MS-14. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE
- MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS
- MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. (GENERAL LAND CONSERVATION NOTE #4)
 - RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 - APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MS-17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING
- MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM. TRAPPED SEDIMENT AND DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- MS-19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION, AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:
 - CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE, OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED
 - ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER: THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN
 - CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER
 - WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS; AND (B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND (C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 - IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE. THE APPLICANT SHALL: IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A
 - TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE
- DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR

STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL, OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A

- PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION, OR OTHER MEASURES TO PREVENT
- DOWNSTREAM EROSION SATISFACTORY TO THE PLAN-APPROVING AUTHORITY. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
- ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL
- FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH MAINTENANCE REQUIREMENTS OF THE FACILITY AND DESIGNATE THE PERSON RESPONSIBLE FOR PERFORMING THE
- OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATERS PLACED AT THE OUTFALL OF THE DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABLE TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
- INCREASED VOLUMES OF SHEET FLOWS CAUSING EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY. IN APPLYING THESE STORMWATER RUNOFF CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT AS A WHOLE SHALL BE TREATED AS A SINGLE PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT STATE SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
- K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EXECUTED IN A MANNER THAT MINIMIZES THE IMPACT ON THE PHYSICAL, CHEMICAL, AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS, AND OTHER

EROSION AND SEDIMENT CONTROL NARRATIVE

THIS PLAN IS FOR THE CONSTRUCTION OF A DECK, PATIO AND POOL AND ASSOCIATED GRADING AND DRAINAGE APPROXIMATELY 4,950 SF (0.11 ACRES) WILL BE DISTURBED WITH THIS PLAN. THE CONSTRUCTION ACCESS WILL BE OFF OF THE CUL-DE-SAC OF PERCHERON LANE WHICH IS LOCATED AT 12917 PERCHREON LANE, OAK HILL, VA 20171. THERE IS NO OFFSITE DISTURBANCE PROPOSED FOR THIS

THE EXISTING SITE IS A SINGLE FAMILY HOME WITH A DRIVEWAY, DECK AND SIDEWALKS. THE LOT IS MOSTLY OPEN GRASS WITH SEVERAL TREES ON THE PARCEL. THE SITE DRAINS MAINLY TO THE SOUTH AND ULTIMATELY INTO A NATURAL SWALE. THE SITE IS WITHIN THE CUB RUN WATERSHED.

POND AND OPEN SPACE TO THE WEST OF THE PARCEL. PERCHERON LANE IS ON THE NORTH SIDE OF THE

THE SITE IS BORDERED ON THE NORTH SOUTH AND WEST BY SINGLE FAMILY HOUSES. THERE IS AN SWM

 $\overline{}$ THERE ARE NO CRITICAL AREAS THAT ARE EXPECTED TO BE IMPACTED AS PART OF THIS CONSTRUCTION.

IT IS NOT ANTICIPATED THAT ANY OFF-SITE PROPERTY WILL BE DISTURBED

SEE COVER SHEET, SHEET 1 FOR SOILS.

EROSION AND SEDIMENT CONTROL MEASURES

- SILT FENCE 3.05
- SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN SHEET FLOW AS INDICATED ON THE PLANS. AS INDICATED ON THE PLANS, IN AREAS WHERE THE SILT FENCE WILL BE TREATING LARGER AREAS.
- TREE PROTECTION SHALL BE PROVIDED AS SHOWN ON THE PLAN TO ENSURE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL
- 3. <u>TEMPORARY CONSTRUCTION ENTRANCE 3.02</u> A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AS SHOWN ON THE PLAN. DURING MUDDY CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING PERCHERON LANE
- VEGETATIVE PRACTICES (SEE SHEET 4 FOR DETAILS)

TOPSOILING (STOCKPILE) - 3.30

TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION & SEDIMENT PLAN TO THE OWNER COVERING THE STOCKPILE AREA WHICH MAY HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY ACTIVITY COMMENCES.

TEMPORARY SEEDING - 3.31

ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.

3. PERMANENT SEEDING - 3.32

PLANTING SEED WILL BE INSTALLED ON DISTURBED AREAS TO REDUCE EROSION AND DECREASE SEDIMENT.

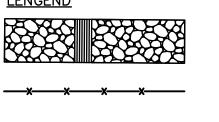
MANAGEMENT STRATEGIES PHASE I:

- 1. CONSTRUCTION WILL BE SEQUENCED SO THAT DEMOLITION OPERATIONS CAN BEGIN AND END AS
- 2. CLEAR ONLY THE AREAS AS SHOWN ON EROSION AND SEDIMENT CONTROL PHASE I PLAN FOR THE INSTALLATION OF PERIMETER CONTROLS SUCH AS SILT FENCE, TREE PROTECTION, AND CONSTRUCTION ENTRANCE, ETC. SHALL BE INSTALLED AS A FIRST STEP PER THE PHASE I EROSION & SEDIMENT CONTROL PLAN. THE MUD SHALL BE REMOVED FROM VEHICLES BEFORE ENTERING THE ROADWAY. A TANKER TRUCK SHALL BE USED IF A WATER SOURCE IS NOT AVAILABLE.
- 1. PHASE II OF THE EROSION AND SEDIMENT CONTROL PROGRAM MAY BEGIN ONLY AFTER THE
- CONTRACTOR OBTAINS AN APPROPRIATE AUTHORIZATION FROM THE SITE INSPECTOR. 2. DEMOLITION OPERATIONS MAY COMMENCE ONCE PERIMETER CONTROLS ARE INSTALLED TO THE
- SATISFACTION OF THE SITE INSPECTOR.
- AREAS THAT ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION
- AND SEDIMENT CONTROL PRACTICES. 5. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROISON & SILTATION CONTROLS WILL BE CLEANED UP AND REMOVED AT THE DIRECTION OF THE SITE INSPECTOR.

OUTFALL ANALYSIS DURING CONSTRUCTION DURING CONSTRUCTION WATER WILL OUTFALL WITH ITS NATURAL PATH THRU EROSION AND SEDIMENT CONTROL MEASURES

1. THERE ARE NO STOCKPILES EXCEPT FOR TOPSOIL PROPOSED WITH THIS PLAN. THE SOIL REMOVED WHEN DIGGING THE FOUNDATION WILL BE IMMEDIATELY SPREAD AROUND THE SITE WITHIN THE PROPOSED CLEARING LIMITS AND STABILIZED

- TO BRING THE SITE TO FINAL GRADE. ANY SOIL IN EXCESS OR SOIL DESIGNATED AS UNSUITABLE, WILL BE HAULED AWAY IMMEDIATELY 2 . THERE WILL BE NO EXCESS SOIL MATERIAL ONSITE; ALL EXCESS MATERIAL WILL BE HAULED OFFSITE.
- 3. THE GRADING/EXCAVATION CONTRACTOR FOR THE SUBJECT SITE IS REQUIRED TO NOTIFY, IN WRITING, THE ASSIGNED SITE INSPECTOR REGARDING ANY EXCESS MATERIAL PROPOSED TO BE HAULED OFFSITE PRIOR TO HAULING. THE NOTIFICATION MUST INDICATE THE QUANTITY OF MATERIAL TO BE MOVED OFFSITE, IDENTIFICATION OF THE RECEIVING SITE WHERE THE EXCESS WILL BE TAKEN, AND ALL INFORMATION NECESSARY TO SHOW THAT SUCH RECEIVING SITE HAS BEEN PROPERLY PERMITTED AND HAS E&S CONTROLS INSTALLED.
- 4. DUST CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH VESCH SECTION 3.39.



CONSTRUCTION ENTERANCE

SILT FENCE

SUPER SILT FENCE

PERMANENT SEEDING



MULCHING

THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS

NO. DATE

TO BE AN ISSUE DURING CONSTRUCTION A GEOTECHNICAL ENGINEERING SHALL DETERMINE THE EXTENT OF ANY NECESSARY MITIGATION PRIOR TO CONTINUING CONSTRUCTION ACTIVITY. THE CONTRACTOR MUST BE PREPARED TO PROVIDE CONSTRUCTION DEWATERING. ADEQUATE DRAINAGE MUST BE PROVIDED TO MINIMIZE ANY INCREASE IN MOISTURE CONTENT OF THE FOUNDATION SOILS. THE SITE DRAINAGE SHALL ALSO BE SUCH THAT THE RUNOFF ONTO ADJACENT PROPERTIES IS CONTROLLED PROPERLY. FILL PLACEMENT AND COMPACTION OPERATIONS SHALL EXTEND AT LEAST 10 FEET LATERALLY

ACTIVITY. SEASONAL INFLUENCES SUCH AS PRECIPITATION, SURFACE RUNOFF, EVAPORATION, AND

OTHER FACTORS WILL INFLUENCE THE GROUND WATER LEVEL. IF GROUND WATER IS DETERMINED

BEYOND STRUCTURAL BOUNDARIES. ALL MATERIAL USED AS FILL SHALL BE TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE. A SUFFICIENT NUMBER OF IN-PLACE DENSITY TEST MUST BE PERFORMED TO VERIFY THAT THE PROPER DEGREE OF COMPACTION IS BEING OBTAINED ON ALL FILL SOILS.

Before you start work you are required to notify the site inspector at 703-324-1720. Failure to notify can result in

a violation and a charge per the compliance inspection.

1. THERE ARE NO STOCKPILES EXAMPTOR PERMIT WITPEOSE quired for any activity disturbing VDOT right-of-way or impeding pedestrian or vehicular traffic WITH THIS PLAN THE SOIL REMOVED WHEN DICCING THE

FOUNDATION WILL BE IMMEDIATELY SPREAD AROUND THE SITE

WITHIN THE PROPOSED CLEARING LIMITS AND STABILIZED TO

BRING THE SITE TO FINAL GRADE. ANY SOIL IN EXCESS OR

SITE IS REQUIRED TO NOTIFY, IN WRITING, THE ASSIGNED SITE

NSPECTOR REGARDING ANY EXCESS MATERIAL PROPOSED TO BE HAULED OFFSITE PRIOR TO HAULING. THE NOTIFICATION

MUST INDICATE THE QUANTITY OF MATERIAL TO BE MOVED

OFFSITE, IDENTIFICATION OF THE RECEIVING SITE WHERE THE

EXCESS WILL BE TAKEN, AND ALL INFORMATION NECESSARY

TO SHOW THAT SUCH RECEIVING SITE HAS BEEN PROPERLY

4. DUST CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH

DURING CONSTRUCTION WATER WILL OUTFALL WITH ITS NATURAL

PERMITTED AND HAS E&S CONTROLS INSTALLED.

PATH THRU EROSION AND SEDIMENT CONTROL MEASURES

SOIL DESIGNATED AS UNSUITABLE, WILL BE HAULED AWAY

THERE WILL BE NO EXCESS SOIL MATERIAL ONSITE; ALL

3. THE GRADING/EXCAVATION CONTRACTOR FOR THE SUBJECT

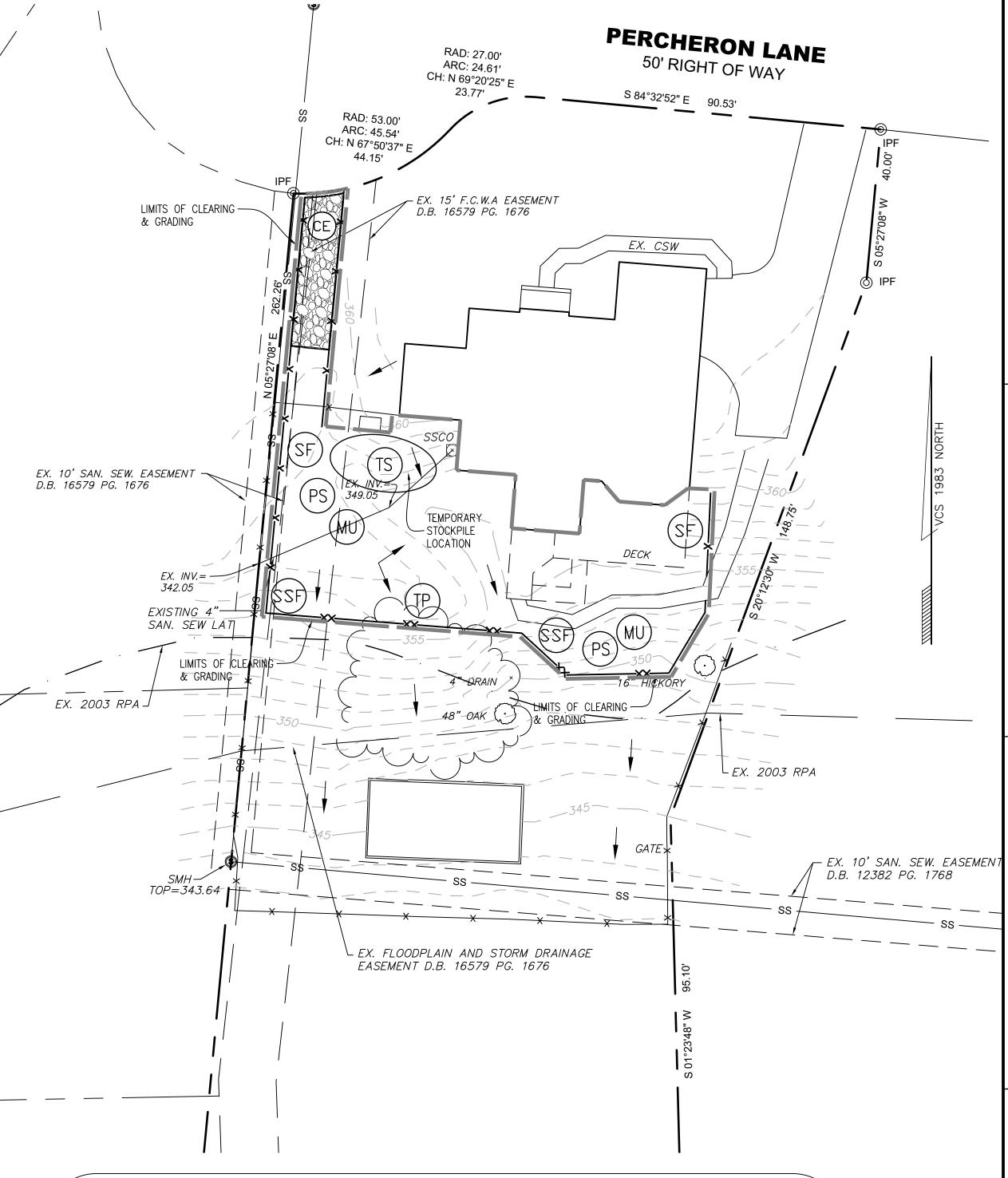
EXCESS MATERIAL WILL BE HAULED OFFSITE

IMMEDIATELY

VESCH SECTION 3.39.

OUTFALL ANALYSIS DURING CONSTRUCTION

EXCAVATION SAFETY OF ADJACENT PROPERTY OWNERS- REVIEW AND APPROVAL OF PLANS, SPECIFICATIONS, AND REPORTS BY THE COUNTY, WITH OR WITHOUT RECOMMENDATIONS BY THE GEOTECHNICAL REVIEW BOARD, SHALL IN NO WAY RELIEVE THE DEVELOPER OF THE RESPONSIBILITY FOR THE DESIGN, CONSTRUCTION AND PERFORMANCE OF THE STRUCTURES, PAVEMENT, AND SLOPES OF THE PROJECT AND DAMAGE TO SURROUNDING PROPERTIES.



THIS SHEET FOR EROSION AND SEDMENT

CONTROL PURPOSE ONLY

DESCRIPTION

ENGINEER/OWNER REVISIONS

NO. DATE

BY

DESCRIPTION

COUNTY REVISIONS

CURT R. CROUCH, P.E.

4995 CROUCH LANE **MIDLAND, VIRGINIA 22728** EMAIL: CROUCH.CURT@GMAIL.COM TELEPHONE: 540.359.1636

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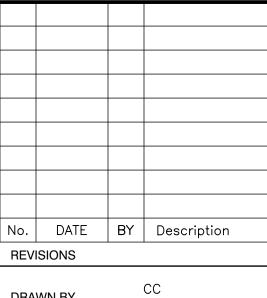
RIE CURT R. CROUCH

Lic. No. 047045

02/21/22

KEY PLAN

SCALE IN FEET



DRAWN BY APPROVED BY CHECKED BY NOVEMBER 2021

EROSION AND SEDIMENT CONTROL PLAN AND **NARRATIVE**

PROJECT NO. 9820-CON-002-1.1

SHEET NO.

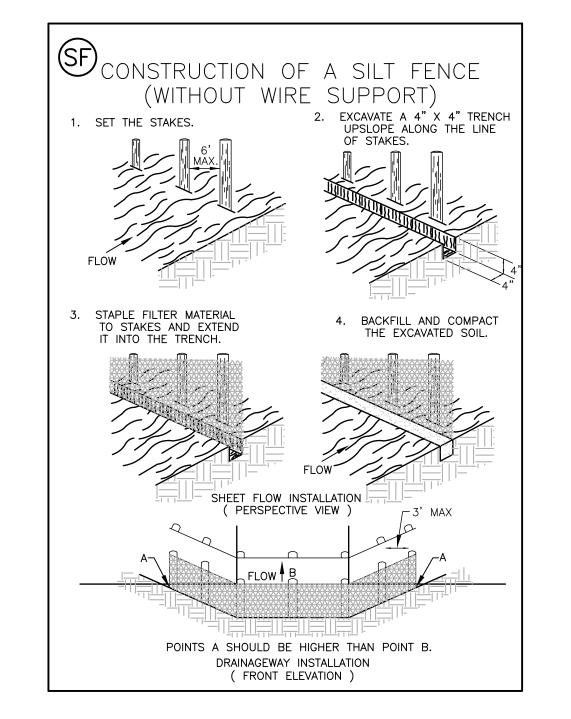
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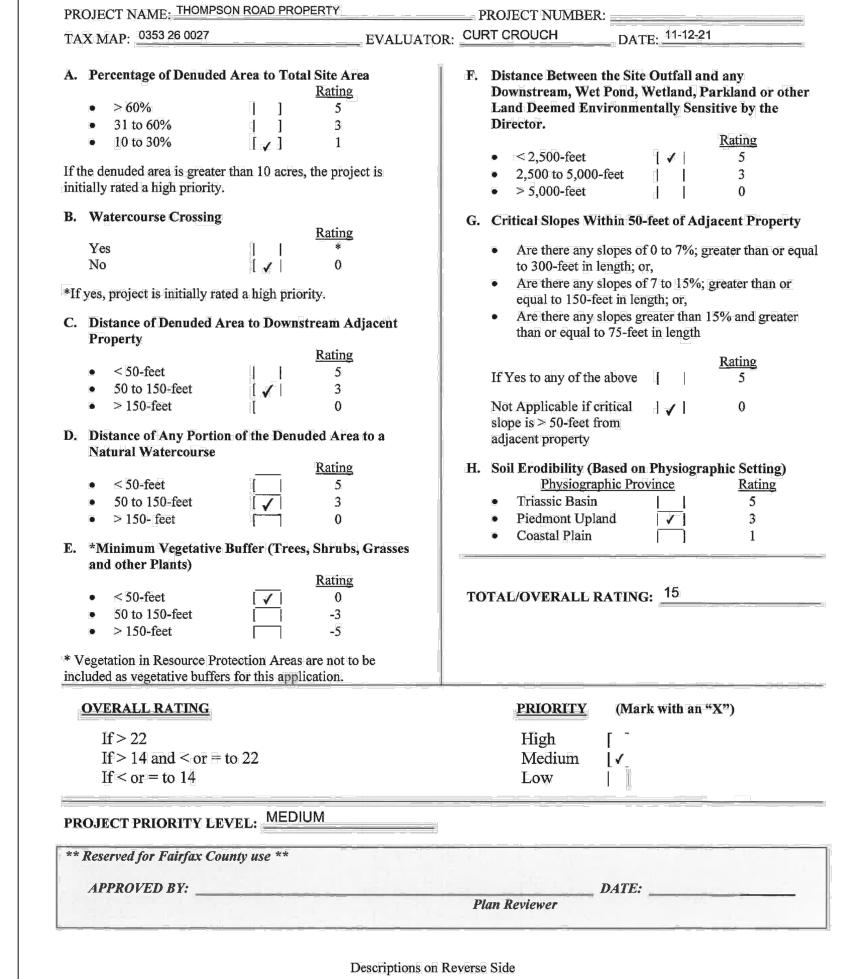
a violation and a charge per the compliance inspection. A VDOT Permit will be required for any activity disturbing VDOT right-of-way or impeding pedestrian or vehicular traffi

FAIRFAX COUNTY PRIORITY RATING FORM FOR EROSION & SEDIMENT CONTROL

SAFETY FENCE STONE CONSTRUCTION ENTRANCE FILTER CLOTH MOUNTABLE BERN SIDE ELEVATION - EXISTING GROUND EXISTING PAVEMENT-B POSITIVE DRAINAGE COURSE AGGREGATE PERSPECTIVE VIEW TO SEDIMENT
TRAPPING DEVICE MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS
OPERATION — PLAN VIEW A DRAY DRAY DHAY DHAY DHAY FILTER CLOTH — REINFORCED CONCRETE PERSPECTIVE VIEW PLASTIC FENCE METAL FENCE

Plate 3.01-1





SECTION N.T.S.

GEOTECHNICAL NOTES: -EDR-ENGINEERING DESIGN REVIEW -PRV-PRESSURE RELEASE VALVES TO BE USED -SPW-SWIMMING POOL BOTTOM SLAB AND WALL MUST BE CONSIDER ALL LATERAL FORCES ON THE SWIMMING POOL WAL (INCLUDING LATERAL EARTH PRESSURES, SWELLING PRESSURES EQUIVALENT FLUID PRESSURE FOR EXPANSIVE SOILS BE LESS THAN 90 PSF PER LINEAR FOOT OF THE WALL HEIGHT. THE STRUCTURAL DESIGN OF THE WALL SHALL BE SUBJECT TO APPROVAL OF BUILDING PLAN REVIEW. -CI-GEOTECHNICAL ENGINEERING SITE INSPECTION PRIOR TO POOL

Adapted from Conwed Plastics and

VDOT Road and Bridge Standards

III - 5

SHELL CONSTRUCTION -FFE-FOOTINGS WILL EXTEND THROUGH PREVIOUSLY DISTURBED SOILS AND BEAR ON COMPETENT UNDISTURBED SOILS. -BF-WALLS MUST BE BACKFILLED WITH NON-EXPANSIVE SOILS THAT CORRESPOND TO THE LATERAL PRESSURE USED IN THE DESIGN OF THE WALL AS LISTED BELOW. THE TOP OF THE BACKFILL SHALL BE ADEQUATELY SLOPED TO PREVENT WATER FROM ACCUMULATING AROUND THE STRUCTURE.

NOTE: PRESSURE RELEASE VALVES SHALL BE PROVIDED FOR THE RELEASE OF HYDROSTATIC PRESSURE WHEN THE POOL IS EMPTIED

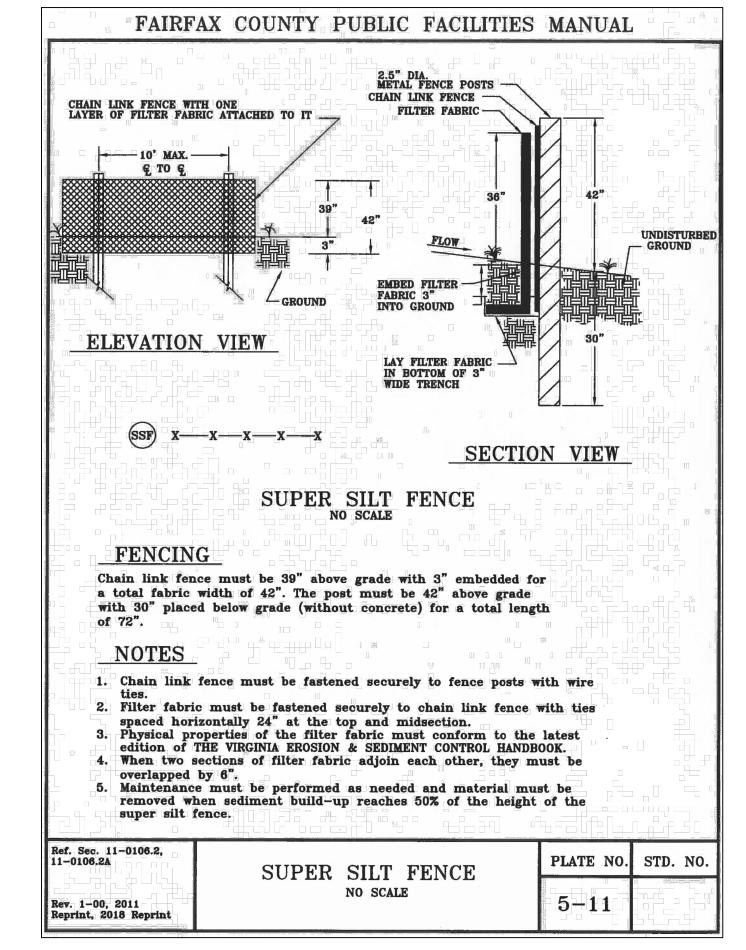


TABLE 3.32-D								
SITE SPECIFIC SEEDING MIXTURES FOR PIE	MONT AREA							
MINIMUM CARE LAWN	TOTAL LBS PER ACRE							
 COMMERCIAL OR RESIDENTIAL KENTUCKY 31 OR TURF-TYPE TALL FESCUE IMPROVED PERENNIAL RYEGRASS KENTUCKY BLUEGRASS 	175-200 LBS 95-100% 0-5% 0-5%							
HIGH-MAINTENANCE LAWN	200-250 LBS							
-KENTUCKY 31 OR TURF-TYPE TALL FESCUE	100%							
GENERAL SLOPE (3:1 OR LESS)								
-KENTUCKY 31 FESCUE -RED TOP GRASS -SEASONAL NURSE CROP *	128 LBS 2 LBS <u>20 LBS</u> 150 LBS							
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)								
-KENTUCKY 31 FESCUE -RED TOP GRASS -SEASONAL NURSE CROP * -CROWNVETCH **	108 LBS 2 LBS 20 LBS <u>20 LBS</u> 150 LBS							
* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SELECTION.	EDING DATES AS STATE							
BELOW: FEBRUARY 16TH THROUGH APRIL MAY 1ST THROUGH AUGUST 15TH AUGUST 16TH THROUGH OCTOBER NOVEMBER THROUGH FEBRUARY 15TH	FOXTAIL MILLET							
** SUBSTITUTE SERICEA LESPEDEZA FOR CRONVETCH EAS THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNVETCH, LBS/ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAIN	PERIODS, USE UNHULLE INCREASE RATE TO 30 LATED. WEEPING							

WARMER SEEDING PERIODS; ADD 10-20 LBS/ACRE IN MIXES.

TABLE 3.31-C TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES									
SPECIES	SEEDING RATE		NORTH ^a			SOUTH			
	ACRE	1000 FT2	3/1 TO 4/30	5/1 TO 8/15	8/15 TO 11/1	2/15 TO 4/30	5/1 TO 9/1	9/1 TO 11/15	PLANT CHARACTERISTICS
OATS (<u>AVENA SATIVA</u>)	3 BU. (UP TO 100 LBS, NOT LESS THAN 50 LBS)	2 LBS	Х		_	Х	_	. -	USE SPRING VARIETIES (E.G., NOBLE).
RYE ^d (<u>SECALE CEREALE</u>)	2 BU. (UP TO 110 LBS, NOT LESS THAN 50 LBS)	2.5 LBS	Х	_	X	Х	_	X	USE FOR LATE FALL SEEDINGS, WINTER COVER. TOLERATES COLD AND LOW MOISTURE.
GERMAN MILLET (SETARIA ITALICA)	50 LBS	APPROX. 1 LB	_	X	_	_	Х	_	WARM-SEASON ANNUAL. DIES AT FIRST FROST. MAY BE ADDED TO SUMMER MIXES.
ANNUAL RYEGRASS [©] (<u>LOLIUM</u> <u>MULTI-FLORUM</u>)	60 LBS	1 ½ LBS	Х	_	X	Х	_	X	MAY BE ADDED IN MIXES. WILL MOW OUT OF MOST STANDS.
WEEPING LOVEGRASS (ERAGROSTIS CURVULA)	15 LBS	5 ½ 0ZS	_	X		-	Х	_	WARM-SEASON PERENNIAL. MAY BUNCH. TOLERATES HOT, DRY SLOPES AND ACID, INFERTILE SOILS. MAY BE ADDED TO MIXES.
KOREAN LESPEDEZA ^C (<u>LESPEDEZA</u> STIPULACEA)	25 LBS	APPROX. 1 ½ LBS	X	X	_	X	Х	_	WARM SEASON ANNUAL LEGUME. TOLERATES ACID SOILS. MAY BE ADDED TO MIXES.

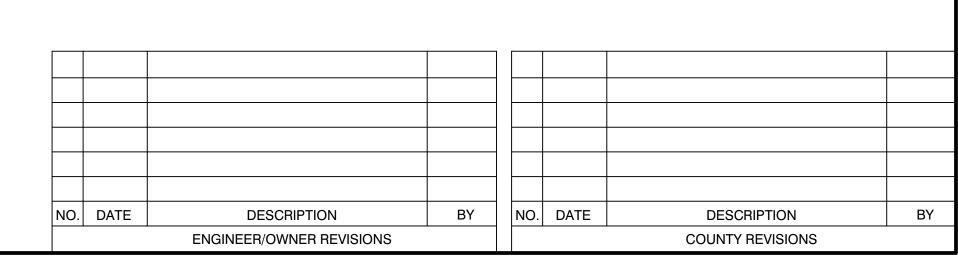
^b SOUTHERN PIEDMONT AND COASTAL PLAIN.

MAY BE USED AS A COVER CROP WITH SPRING SEEDING

MAY BE USED AS A COVER CROP WITH FALL SEEDING.

X MAY BE PLANTED BETWEEN THESE DATES. - MAY <u>NOT</u> BE PLANTED BETWEEN THESE DATES.

THIS SHEET FOR EROSION AND SEDMENT CONTROL PURPOSE ONLY



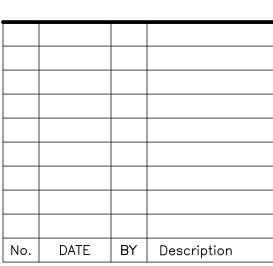
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RIEGER,

CURT R. CROUCH

KEY PLAN



REVISIONS DRAWN BY APPROVED BY CHECKED BY

EROSION AND

NOVEMBER 2021

SEDIMENT DETAILS AND NOTES

PROJECT NO. 9820-CON-002-1.1

THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS.

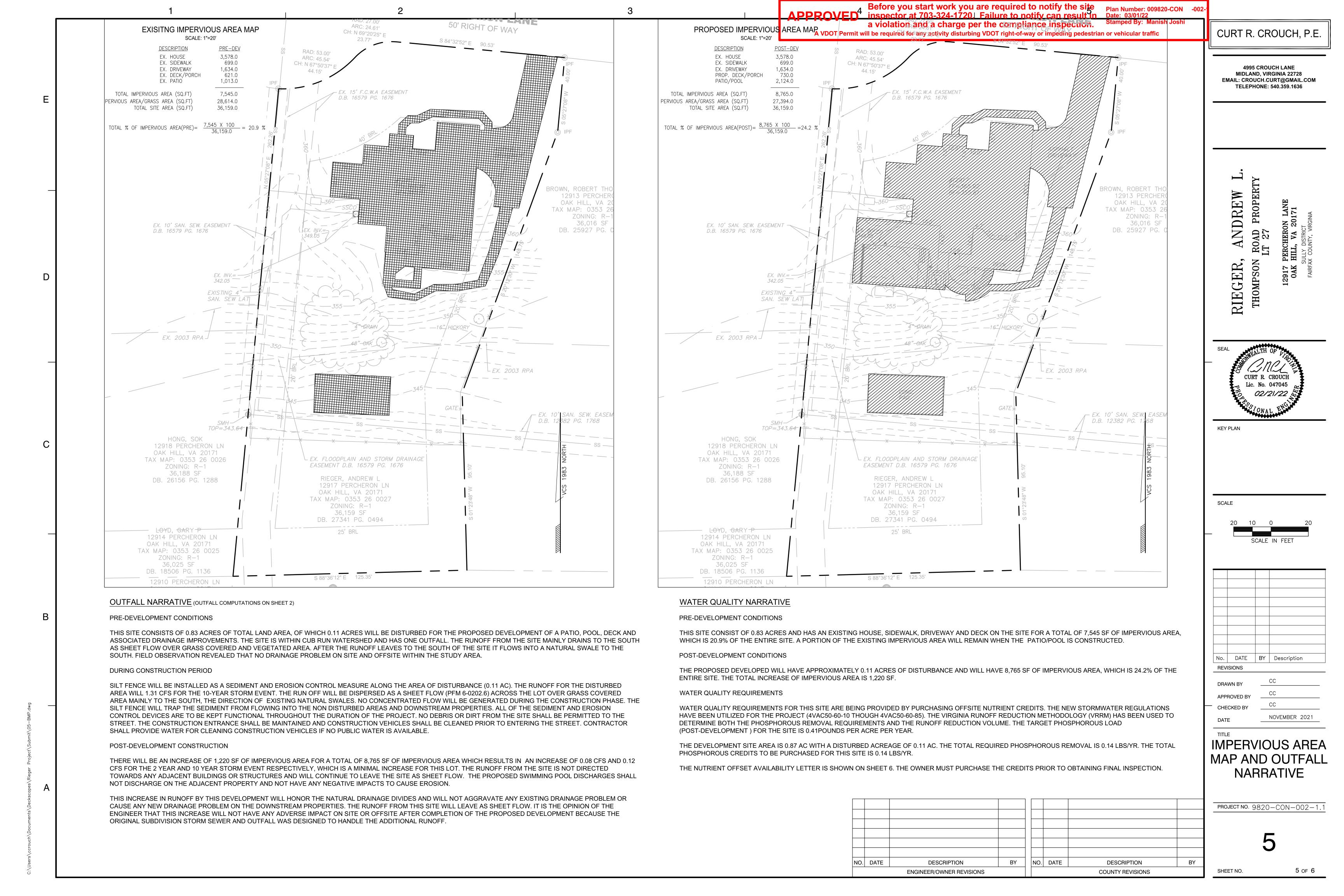
METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE

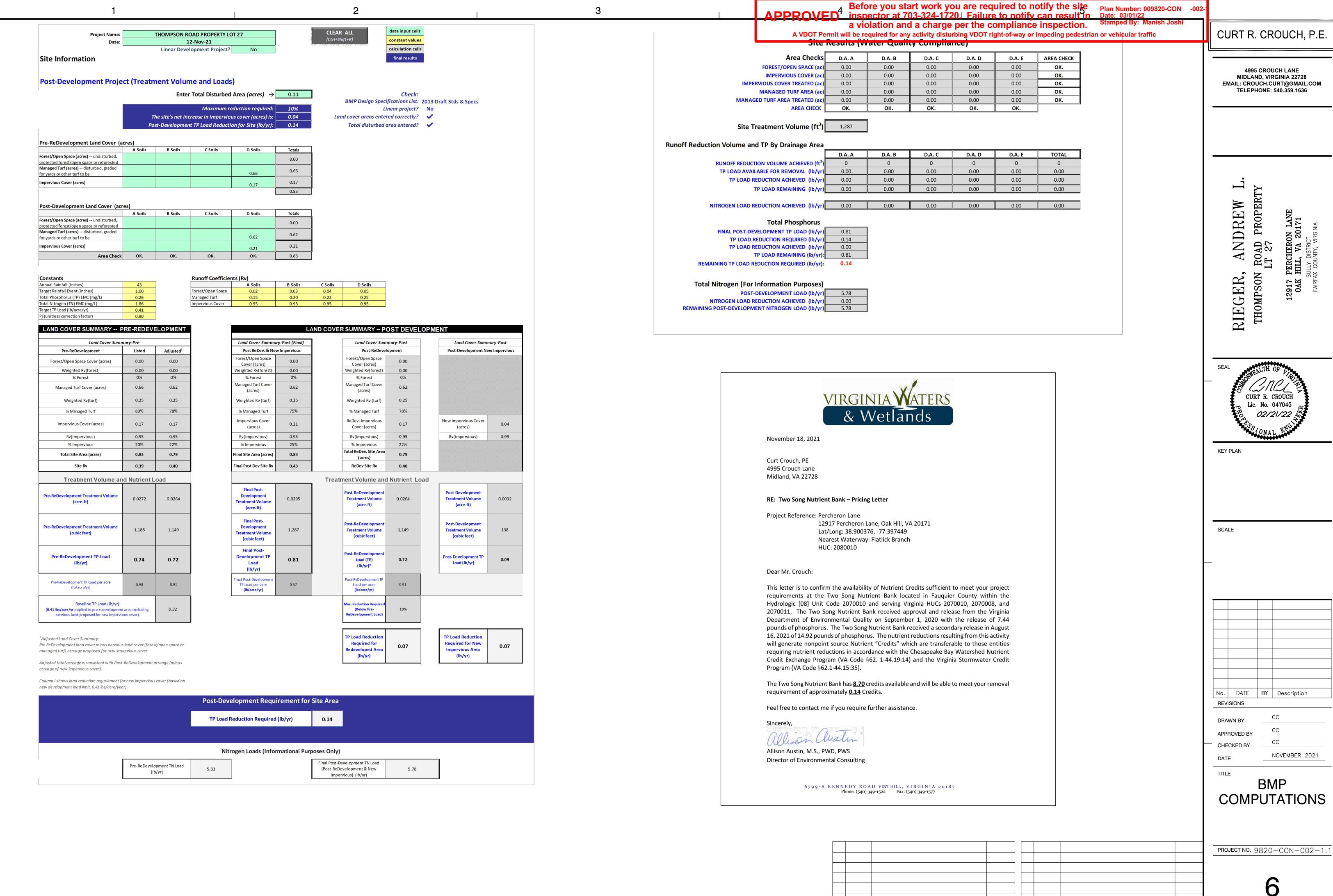
> SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.

CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR

SHEET NO.

4 OF 6





SHEET NO.

NO. DATE

DESCRIPTION

COUNTY REVISIONS

BY

BY

NO. DATE

DESCRIPTION

ENGINEER/OWNER REVISIONS

6 of 6