

EROSION AND SEDIMENTATION CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS DEMOLISH A SINGLE FAMILY HOME ON A 24,757 SF (0.5683 AC.) PARCEL LOCATED AT 4219 LORCOM LANE. THE DISTURBANCE AREA INCLUDES DEMOLITION OF ONE (1) EXISTING SINGLE FAMILY HOME, CLEARING NAD GRADING, AND UTILITY DISCONNECTIONS. THE TOTAL DISTURBED AREA IS 25,785 SF OR APPROXIMATELY 0.5919 ACRES (24,213 SF ONSITE, 1,572 OFFSITE). THE GENERAL SEQUENCE OF CONSTRUCTION WILL CONSIST OF INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES, DEMOLITION OF THE EXISTING BUILDINGS, AND STABILIZATION OF THE SITE.

EXISTING SITE CONDITIONS

THE SITE CURRENTLY CONSISTS OF ONE (1) SINGLE FAMILY DWELLING, UTILITY CONNECTIONS, DRIVEWAYS, AND TREES. THE SITE DRAINS FROM SOUTH TO NORTH AND SHEET FLOWS TOWARD ADJACENT PROPERTIES. STORMWATER ULTIMATELY ENTERS THE MUNICIPAL STORM SEWER SYSTEM VIA CATCH BASINS IN DOWNSTREAM PROPERTIES AND N. TAYLOR STREET.

ADJACENT PROPERTY

THE SITE IS BOUND BY LORCOM LANE TO THE EAST, SINGLE FAMILY HOMES TO THE NORTH, SOUTH AND WEST.

OFFSITE AREAS

UTILITY DISCONNECTIONS.

SOILS

SEE SOILS TABLE -- THIS SHEET

CRITICAL AREA

NO PART OF THIS SITE IS WITHIN AN RPA ZONE. NO PART OF THIS SITE IS WITHIN A 100 YEAR FLOOD PLAIN. THERE ARE STEEP SLOPES IN THE REAR OF THE EXISTING BUILDING ON THIS SITE. SILT FENCE IS TO BE INSTALLED TO LIMIT ACCESS TO THE REAR AREA OF THE SITE AND TO PROVIDE EROSION CONTROL. THE CONTRACTOR IS TO PROVIDE TEMPORARY SEEDING AFTER DEMOLITION TO STABILIZE THE BUILDING PAD UNTIL PERMITS ARE ISSUED AND CONSTRUCTION BEGINS ON THE FUTURE IMPROVEMENTS.

STORMWATER NARRATIVE

THE SITE IS LOCATED IN THE DONALDSON RUN WATERSHED (POTTF DC).

EROSION AND SEDIMENT CONTROL MEASURES

CONSTRUCTION ENTRANCE: VESCH 3.02
 SILT FENCE/SUPER SILT FENCE: VESCH 3.05
 INLET PROTECTION: VESCH 3.07
 DEWATERING STRUCTURE: VESCH 3.28
 TREE PROTECTION FENCE: VESCH 3.38
 DUST CONTROL: VESCH 3.39

EROSION CONTROL NARRATIVE

THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES WILL BE ACCOMPLISHED IN ONE PHASE. TREE PROTECTION, SAFETY FENCE, SILT FENCE, CONSTRUCTION ENTRANCE, AND INLET PROTECTION SHALL BE IN PLACE BEFORE DEMOLITION BEGINS AND WILL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED.

MAINTENANCE NOTES:

1. EROSION AND SEDIMENT CONTROL DEVICES TO BE MAINTAINED BY CONTRACTOR.
2. MAINTENANCE OF THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE AS REQUIRED TO PREVENT MUD DEPOSITS IN THE RIGHT-OF-WAY. ALL EXISTING ROADWAYS TO BE MAINTAINED IN A SEDIMENT FREE CONDITION AT ALL TIMES.
3. SILT FENCES SHALL BE INSPECTED AT THE END OF EACH DAY AND AFTER EACH RAINFALL. ANY REQUIRED REPAIRS OR REPLACEMENT SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS WILL BE REMOVED AFTER EACH RAINFALL AND AT ANY TIME THE DEPOSITS REACH APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN PLACE UNTIL GROUND DISTURBING ACTIVITIES, BUILDING CONSTRUCTION, AND PERMANENT STABILIZATION IS COMPLETE.

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE VESCH 4VAC50-30-40 MINIMUM STANDARDS:

- A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- C. 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 STREAMS OR OFF-SITE PROPERTY.
- D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1: 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 AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: 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.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: 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.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

CONTAMINATED SOIL

IF APPLICABLE, ALL CONTAMINATED SOIL ON-SITE IS TO BE REMOVED. SOIL REMOVAL PROCESS AND DISPOSAL TO CONFORM TO VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) STANDARDS.

PERMANENT STABILIZATION

PERMANENT SOIL STABILIZATION SHALL BE IN ACCORDANCE TO VESCH SECTIONS 3.29 TO 3.36. ANY SOIL NOT TO BE BROUGHT TO FINAL GRADE FOR MORE THAN 30 DAYS IS TO BE SEEDED AND MULCHED WITHIN 7 DAYS (ANY DENUDED AREA). STOCKPILES TO BE SEEDED IMMEDIATELY. AREAS LEFT DORMANT OR NOT BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY SEEDED AND MULCHED.

ALL STORM AND SANITARY LINES NOT IN THE STREET SHALL BE MULCHED AND SEEDED WITHIN 7 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET SHALL BE OPEN AT ANY ONE TIME. ELECTRIC, TELEPHONE, CABLE, AND GAS UTILITY TRENCHES SHALL BE COMPACTED, SEEDED, MULCHED WITHIN FIVE DAYS AFTER BACKFILL.

NO DISTURBED AREA WILL BE DENUED FOR MORE THAN 7 CALENDAR DAYS UNLESS IT IS AN ACTIVE WORK AREA OR OTHERWISE AUTHORIZED BY THE ARLINGTON CO. INSPECTOR. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE IMMEDIATELY STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL SERVICES, ENGINEERING DIVISION AT TELEPHONE NO. (703) 228-3629 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES INCLUDING DEMOLITION OF EXISTING STRUCTURES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE COUNTY INSPECTION MAY REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES IF FIELD CONDITIONS WARRANT. THE CONTRACTOR SHALL ALSO MAINTAIN AT ALL TIMES A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AT THE SITE.
 2. ALL DEBRIS FROM CLEARING AND GRADING, AND ANY EXCESS EXCAVATED MATERIAL, SHALL BE TAKEN TO AN APPROVED DISPOSAL AREA.
 3. 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.
- GENERAL LAND CONSERVATION NOTES**
1. NO DISTURBED AREA WILL REMAIN DENUED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OF HIS/HER AGENT.
 2. ALL E&S CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
 3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE SEEDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500' ARE TO BE OPEN AT ANY ONE TIME.
 4. ELECTRIC POWER, TELEPHONE, CABLE T.V., AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 5 DAYS AFTER BACKFILL.
 5. ALL TEMPORARY EARTH BERMS, DIVERSIONS, AND SEDIMENT CONTROL DAMS ARE TO BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
 6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
 7. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND IS 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 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15.
 8. AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

DEMOLITION NOTES

1. ALL EXISTING WATER METERS AND DRAINAGE FIXTURES ARE TO BE REMOVED AS INDICATED IN THE DEMOLITION PLAN, AND ACCOUNTED FOR AS CREDIT TOWARD FUTURE WATER HOOK-UP FEES.
2. ALL SANITARY LATERALS TO BE CAPPED AS COORDINATED WITH ARLINGTON WATER, SEWER AND STREET DIVISION. DEVELOPER MAY USE EXISTING WATER FOR CONSTRUCTION PURPOSES (E&S) ONLY.
3. PROVIDE WRITTEN REQUEST TO ARL. CO. UTILITY SERVICES TO DISCONTINUE EXISTING WATER SERVICES (228-3636).
4. DAMAGE TO ANY EXISTING ENTRANCES, CURB AND GUTTER, PAVEMENT OR OTHER EXISTING STRUCTURES NOT PROPOSED TO BE DISTURBED WITH THIS DEVELOPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE ARLINGTON COUNTY AND ANY ADJOINING OWNERS THAT MAY BE AFFECTED.
5. ALL AREAS, ON OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON, SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. THE MINIMUM ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS, SEED MIXTURE TO BE AS RECOMMENDED BY THE COUNTY AGENT. ALL SLOPES 3:1 AND GREATER SHALL BE SODDED AND PEGGED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY ARLINGTON COUNTY.

Pre-Storm Erosion and Sediment Control Checklist

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County. These supplementary practices are in addition to those shown in an ESC plan. ESC practices shall be modified as needed to ensure only clear water is discharged from the site.

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

Perimeter controls

- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn. Silt fence must be trenched into the ground per state specifications (Std & Spec 3.09).
- Wooden stakes or steel posts shall be properly secured upright into the ground. Damaged posts or stakes must be replaced.
- Sediment that has accumulated against the silt fence should be removed. Accumulated sediment must be removed when the level reaches one-half the height of the fencing.
- Hay bales or a stone berm should be placed across the construction entrance to prevent sediment from leaving the construction site.

Exposed slopes and soil

- Exposed slopes not at the final stabilization phase shall be covered with tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Controls shall be installed to prevent concentrated flow down an exposed slope. Berms or diversion dikes shall be installed at the top of cut / exposed slopes to direct storm flow around the disturbed area.
- Exposed slopes at the final stabilization phase shall be stabilized using slope stabilization practices such as soil stabilization blankets or matting as specified in the Virginia Erosion and Sediment Control Handbook (VESCH Std & Spec 3.36. Blankets or mats must be properly secured and anchored to the slope using staples, pins, or stakes.
- Seeded areas shall be checked and reseeded as necessary to cover exposed soil. Recently seeded areas shall be protected by straw or soil stabilization blankets to prevent seeding from being washed away.

Stockpiles

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

Inlet protection

- Inlet protection controls shall be inspected to ensure they are functioning properly and flooding will not occur. Clogged or damaged controls must be replaced immediately. Ensure controls allow for overflow / bypass of stormwater runoff during significant storm events.

In addition to these pre-storm actions, all erosion and sediment control (ESC) measures must be checked daily and after each significant rainfall.

SOIL TYPE: GLENEIG-URBAN LAND COMPLEX

ITEM	#7C GLENEIG-URBAN
TEXTURE	LOAM
HYDROLOGIC SOIL GROUP	B
PERMEABILITY-SUBSOIL	MODERATE
-FRAGIPAN	N/A
-SUBSTRATUM	MODERATE
AVAILABLE WATER CAPACITY	MODERATE
SURFACE RUNOFF	RAPID
EROSION HAZARD	SEVERE
SOIL REACTION	VERY STRONG
	TO STRONG ACID
ROOT ZONE DEPTH (IN)	>60
ROOT ZONE RESTRICTION	NONE
DEPTH TO BEDROCK (IN)	>60
DEPTH TO WATER TABLE (IN)	>72
TYPE OF WATER TABLE	
FLOODING POTENTIAL	NONE
SHRINK-SWELL POTENTIAL	LOW
POTENTIAL FROST ACTION	MODERATE
CORROSIVITY - STEEL	LOW
- CONCRETE	HIGH

#7C GLENEIG-URBAN LAND COMPLEX- 8-15% SLOPES.

ON-SITE SOILS

NOTE: ALL INFORMATION IS TAKEN FROM SOIL SURVEY OF ARLINGTON COUNTY.

05/07/2019
date

Qianqian Li, P.E.
 ESC Program Administrator
 Department of Environmental Services
 2100 Clarendon Boulevard, Suite 813
 Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

4219 LORCOM LANE
street address

THE PROPERTY OF R.A. PHILLIPS
lot, block, section subdivision

permit number

Dear Mrs. Li:

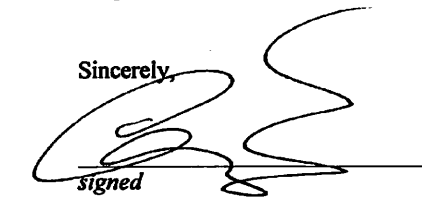
I hereby certify that I accept the responsibilities of **Responsible Land Disturber** for the above referenced project. I understand that these responsibilities include:

1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
4. Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at 571-381-5225 with questions about this plan or my execution of the duties of
 telephone number

Responsible Land Disturber.

Sincerely,



Karen White
name printed

RLD 40378
professional registration (type and number)



EROSION AND SEDIMENT CONTROL NOTES

WALTER L. PHILLIPS
INCORPORATED ESTABLISHED 1945

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 Landscape Architects • Arborists
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**ARLINGTON, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES**

**4219 LORCOM LANE
 THE PROPERTY OF R.A. PHILLIPS
 DEMOLITION PLAN
 4219 LORCOM LANE, ARLINGTON, VIRGINIA 22207**

SCALE: NONE	DRAWN CR	CHECKED TPBKW
SUBMITTED DATE 02/20/2019	05/07/2019	
		APPROVED DATE
		DIRECTOR OF ENVIRONMENTAL SERVICES
		SHEET: D-0602