

EROSION AND SEDIMENT CONTROL NARRATIVE

EROSION AND SEDIMENT CONTROL

EXTENSIVE EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, INLET PROTECTION, A CONSTRUCTION ENTRANCE, AND EC MATTING ARE PROPOSED FOR THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN...

THE DITCHES FOR THIS PHASE WERE SIZED USING FLOWMASTER SOFTWARE. THESE CALCULATIONS, ALONG WITH SIZING CALCULATIONS FOR THE TEMPORARY SEDIMENT TRAP HAVE BEEN PROVIDED IN APPENDIX B. THE PROPOSED DITCHES AND SEDIMENT TRAP ARE ADEQUATE TO HANDLE THE 10-YEAR DESIGN STORM.

STRUCTURAL PRACTICES

- SILT FENCE: SILT FENCE SEDIMENT BARRIERS WILL BE USED WHERE THE SITE IS DRAINING AWAY FROM THE CENTER OF THE SITE TO FILTER ANY SEDIMENT-LADEN RUNOFF FROM SHEET FLOW.
DITCHES: DITCHES WILL BE INSTALLED TO DIRECT SEDIMENT LADEN RUNOFF TO THE PROPOSED CONTROLS FOR FILTERING PRIOR TO LEAVING THE SITE.
EC MATTING: EC MATTING IS A SOIL STABILIZATION BLANKET. THESE BLANKETS ARE INSTALLED ON SURFACES WITH SIGNIFICANT SLOPES TO HOLD SEED AND SOIL INTACT DURING THE ESTABLISHMENT OF VEGETATIVE COVER.

VEGETATIVE PRACTICES

- TOPSOILING (STOCKPILE): TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. THE STOCKPILE WILL BE STABILIZED WITH TEMPORARY SEEDING PER THE VESCP AND THE PERIMETER OF THE STOCKPILE AREA WILL HAVE A DOUBLE LAYER OF SILT FENCE PROTECTION AROUND IT.
TEMPORARY SEEDING: ALL AREAS THAT HAVE NOT REACHED FINAL GRADE AND WILL BE LEFT DORMANT FOR MORE THAN 30 DAYS BUT LESS THAN ONE YEAR WILL BE SEEDING WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING.
PERMANENT SEEDING/SODDING/FERTILIZATION: ALL OFF-SITE UNPAVED OPEN AREAS THAT HAVE REACHED FINAL GRADE WILL BE PERMANENTLY SEEDING IMMEDIATELY FOLLOWING GRADING.

MANAGEMENT STRATEGIES

- 1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
2. TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
3. AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.

PERMANENT STABILIZATION

- ALL DISTURBED AREAS THAT WILL REMAIN DORMANT FOR MORE THAN ONE YEAR WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING GRADING. SEEDING WILL BE DONE IN ACCORDANCE WITH THE PLANTING SCHEDULE PROVIDED ON THE NOTES SHEET IN THE SITE PLAN DRAWINGS.
MAINTENANCE: IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY, AFTER EVERY SIGNIFICANT RAINFALL (0.5" IN A 24-HOUR DURATION), AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.

SOILS

THE PREDOMINANT SOILS ARE LISTED ON THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) WEB SOIL SURVEY AS ALTAVISTA-URBAN LAND COMPLEX (ABOUT 97% OF THE SITE) AND UDORHTENTS-DUMPS COMPLEX (ABOUT 3% OF THE SITE). PROPERTIES OF THIS SOIL WERE DERIVED FROM THE SURVEY INCLUDE THE FOLLOWING:

- MAP UNIT: 24-TOMOTLEY-URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES. COMPONENT: TOMOTLEY (70%).
MAP UNIT: 27-URBAN LAND. COMPONENT: URBAN LAND (83%).
COMPONENT: TOMOTLEY (1%).
COMPONENT: NIMMO (1%).

SEQUENCE OF CONSTRUCTION

- PHASE 1: 1. OBTAIN NECESSARY PERMITS BEFORE THE START OF CONSTRUCTION. 2. COORDINATE REMOVAL AND/OR RELOCATION OF EXISTING POWER POLES WITH DOMINION VIRGINIA POWER. 3. INSTALL INLET PROTECTION ON EXISTING STRUCTURES. 4. INSTALL STABILIZED CONSTRUCTION ENTRANCE. 5. INSTALL SILT FENCE. 6. INSTALL TEMPORARY SWALES, TEMPORARY SEDIMENT TRAP. 7. CONTRACTOR TO CONTACT CITY OF NORFOLK, BUREAU OF ENVIRONMENTAL SERVICES AT 757-664-4444 AND ENVIRONMENTAL STORM WATER MANAGEMENT SERVICES AT 757-823-4089, 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. 8. DEMOLISH EXISTING STRUCTURES AND PAVEMENT. 9. DEMOLISH UNDERGROUND UTILITIES WITHIN THE LIMITS OF DISTURBANCE.

PHASE 2

- 1. BEGIN INSTALLING UNDERGROUND STORMWATER SYSTEM AND CURB ALL PIPES AND MANHOLE SYSTEM IS BEING INSTALLED. CONTRACTOR SHALL INSTALL SILT FENCE AND INLET PROTECTION AS PRACTICABLE TO MINIMIZE ANY SEDIMENT FROM ENTERING THE SYSTEM. CONTRACTOR SHALL MAINTAIN FULL CAPACITY OF SEDIMENT TRAP AS PRACTICABLE.
2. INSTALL UTILITIES AND STORM SYSTEM.
3. PREPARE BLEEDING PAD.
4. FULL DIVERSION WHERE APPLICABLE TO ALLOW PAVING.
5. INSTALL CURB & GUTTER.
6. PAVE THE SITE.
7. FURNISH FINAL SLOPE REPORT.
8. STABILIZE ALL AREAS TO REMAIN DORMANT FOR A PERIOD OF FOURTEEN (14) DAYS OR LONGER SHALL BE INITIATED WITHIN TWENTY-FOUR (24) HOURS AFTER CONSTRUCTION ACTIVITY CEASES IN THESE AREAS. TEMPORARY SEEDING OR OTHER STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) DAYS OF INITIATION. PERMANENTLY SEED ALL DENUDED AREAS THAT HAVE REACHED FINAL GRADE AND WILL BE DORMANT MORE THAN ONE YEAR WITHIN 30 DAYS.

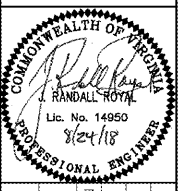
VIRGINIA EROSION AND SEDIMENT CONTROL PLAN MINIMUM STANDARDS (MS) CHECKLIST

Table with 4 columns: YES, N/A, 9VAC25-840-40 MINIMUM STANDARDS, DESCRIBE HOW MS IS ADDRESSED ON PLAN. Rows include MS1 (Permanent or Temporary Soil Stabilization), MS2 (During Construction of the Project), MS3 (Permanent Vegetative Cover), MS4 (Sediment Basins and Traps), MS5 (Stabilization Measures), MS6 (Sediment Traps and Basins), MS7 (Out and Fill Slopes), MS8 (Concentrated Runoff), MS9 (Water Seeps), MS10 (Storm Sewer Inlets), MS11 (Storm Sewer Conveyance), MS12 (Watercourse Protection), MS13 (Vehicle Crossings), MS14 (Crossings), MS15 (Watercourse Stabilization), MS16 (Underground Utilities), MS17 (Construction Vehicle Routes), MS18 (Downstream Protection), MS19 (Channel Bank Protection), MS20 (Detention Facilities), MS21 (Water Quantity), MS22 (Water Quality), MS23 (Stormwater Management), MS24 (Regulatory Compliance).

Order Plans @ WAWA

Table with columns: NO., REVISIONS, DATE, BY.

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KHA PROJECT: 1116607003
DATE: 08/24/2018
SCALE: AS SHOWN
DESIGNED BY: LEY
DRAWN BY: LEY
CHECKED BY: JY

EROSION NARRATIVE

WAWA AT NEWTOWN AND STONEY POINT
PREPARED FOR WAWA
CITY OF NORFOLK, VIRGINIA