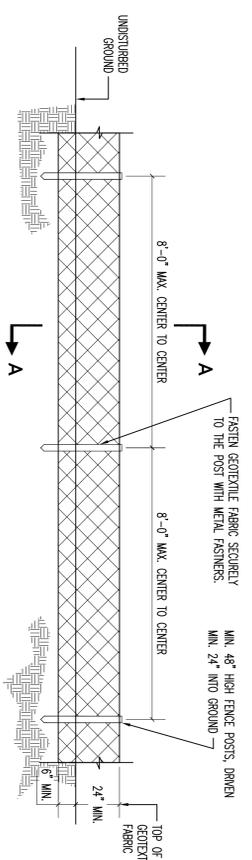


SOIL EROSION AND SEDIMENT CONTROL NOTES

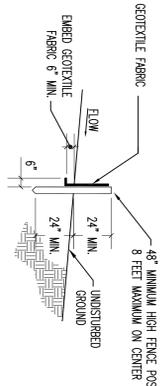
1. THE SWAPEST SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF NEW JERSEY.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION.
5. IN THAT N.J.S.A. 42A-39 et. seq. requires that no certificates of occupancy be issued before the provisions of the certified plan for erosion control have been complied with for permanent measures, ALL SITE WORK AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. THE SEASON PRODUCTS THE ESTABLISHMENT OF TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
7. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SIMILAR EQUIVALENT, AT A RATE OF 1 1/2 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
8. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS, IN AREAS WHERE NO PRELIMINARY GRADING.
9. ANY STEEP SLOPES RECEIVING PRELIMINARY INSTALLATION WILL BE BACKFILLED AND STABILIZED ONLY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
10. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAU OF CLEAN GEOTEXTILE FABRIC OVER ANY EXPOSED SOIL SURFACE. THE FABRIC SHALL BE 2 FEET WIDER THAN THE ROADWAY PAU, MINIMUM 100 FEET LONG, AND REQUIRE THE CONSTRUCTION OF A MINIMUM OF ONE (1) TO TWO (2) INCH (1"-2" STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
11. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
12. PERMANENT VEGETATION IS TO BE SEEDS OR SOILED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
13. AT THE TIME THAT SITE PREPARATION OR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
14. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4.5 OR LESS, OR CONTAINING MORE THAN 50% SAND, SHALL BE COVERED WITH A MINIMUM OF TWO (2) INCHES OF SOIL HAVING A PH OF 5 OR MORE. PRIOR TO SEEDING PREPARATION AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
15. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
16. UNLIMITED DRAINAGING IS NOT PERMITTED. NECESSARY REVISIONS MUST BE TAKEN DURING ALL DRAINAGING OPERATIONS TO MINIMIZE SEDIMENT TRANSPORT AND DRAINAGING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DRAINAGING AS COVERED BY SPECIFICATION.
17. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED AS OFTEN AS NECESSARY ON A DAILY BASIS UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD OF DUST CONTROL.
18. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED AND APPROVED PLAN BY COMING STAGING AND STOCKPILES NOT BE LOCATED WITHIN THE DISTURBED AREAS. STOCKPILES SHALL BE COVERED WITH EROSION AND SEDIMENT CONTROL PLAN AREAS LESS THAN 500 SQUARE FEET DO NOT REQUIRE ANY CERTIFICATION.
19. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEDIMENTATION THAT MAY OCCUR BELOW STOCKPILER OUTFALLS OR OFFSITE AS RESULT OF CONSTRUCTION OF THE PROJECT.
21. THE CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCES ADJACENT TO AND DOWNSTREAM OF ALL STOCKPILES THAT WILL REMAIN FOR ANY PERIOD LONGER THAN ONE DAY.
22. THE CONTRACTOR SHALL INSTALL TEMPORARY INLET PROTECTION DOWNSTREAM OF AND WITHIN 100 FEET OF ANY AREAS DISTURBED BY EXCAVATION OR EARTHWORK ACTIVITIES. PROTECTION SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS HAVE RECEIVED FINAL RESTORATION AND STABILIZATION.
23. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF STABILIZED CONSTRUCTION ENTRANCES WITH THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE AND SHALL INSTALL SUCH ENTRANCES PRIOR TO CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR TO SUBMIT SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE SWAPEST SOIL CONSERVATION DISTRICT FOR APPROVAL OF THE PLAN. THE AREA TO BE DISTURBED IS IN ACCESS OF 1 ACRE (43,560 SQUARE FEET) AND A REQUEST FOR AUTHORIZATION SHALL BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. INSTALL ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SILT FENCE AND STABILIZED CONSTRUCTION ACCESS. MAINTAIN THESE MEASURES IN PROPER CONDITION UNTIL PERMANENT PROTECTION HAS BEEN ESTABLISHED.
3. COMPLETE ALL DEMOLITION AND COMPLETE FINAL GRADING.
4. START INITIAL LANDSCAPING AND PERMANENT SOIL STABILIZATION.
5. COMPLETE LANDSCAPING AND FINAL SOIL STABILIZATION AND PROCEED WITH FINAL CLEAN-UP OF SITE.
6. REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER AREAS DISTURBED DURING CONSTRUCTION HAVE BEEN SUFFICIENTLY STABILIZED AND ALL FINAL INSPECTION CONDUCTED & ACCEPTED BY CONTRACTING OFFICER.



SECTION A-A

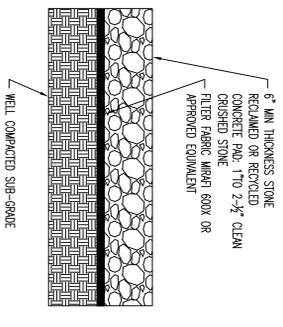


SILT FENCE DETAIL

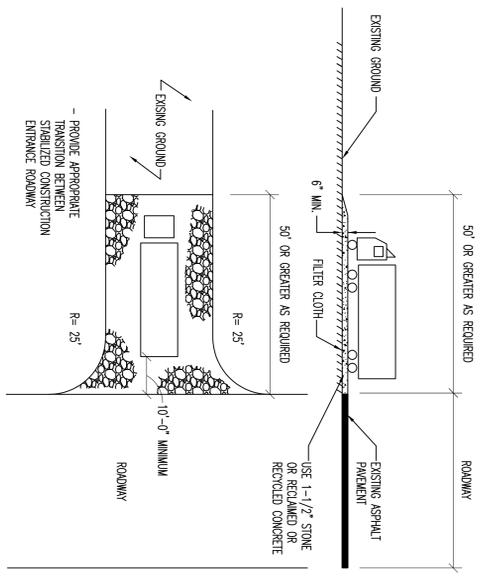
NOT TO SCALE

SILT FENCE CONSTRUCTION SPECIFICATIONS

1. HIGH STRENGTH POLYPROPYLENE NETTING SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 3. WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6", ROLLED AND STAPLED TO PREVENT SEDIMENT PASSES.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. SILT FENCE GEOTEXTILE FABRIC: THE FABRIC FOR THE SILT FENCE SHALL MEET THE FOLLOWING SPECIFICATIONS:
- | FABRIC PROPERTIES | TEST | METHOD |
|--------------------|-------|-----------------------|
| GRID TENSILE | | |
| STRENGTH (lbs.) | 90 | ASTM D1882 |
| ELONGATION | 50 | ASTM D1882 |
| AT FAILURE (%) | | |
| MILLEN BURST | | |
| STRENGTH (lbs.) | 190 | ASTM D3786 |
| PUNCTURE | | |
| STRENGTH (lbs.) | 40 | ASTM D751 modified |
| EQUIVALENT OPENING | 40-80 | US Std Sieve CW-02715 |
6. FENCE POSTS (FOR FABRICATED UNITS): THE POSTS SHALL BE A MINIMUM OF 48 INCHES LONG. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM 2 INCHES DIAMETER.
 7. HIGH STRENGTH HEMLOCKWOOD MATERIAL (NYLON, WEAVING, GEOMETRIC, WIGGERS ETC.) SHALL BE PLACED BETWEEN THE FASTENERS AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TENSILE TENSION AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A BRAW STRAP IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.
 8. PREFABRICATED UNITS: PREFABRICATED UNITS MAY BE USED IN LIEU OF THE ABOVE METHOD, PROVIDED:
 - a. THE GEOTEXTILE AND FENCE POSTS MEET THE ABOVE CRITERIA.
 - b. THE UNIT IS INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.



STABILIZED CONSTRUCTION PAD



STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

CONSTRUCTION ENTRANCE SPECIFICATIONS

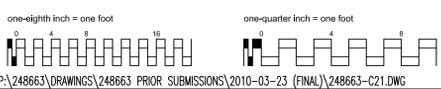
1. PROVIDE AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES ACCESS CONSTRUCTION AREAS FROM PAVED ROADWAYS.
2. STONE SIZE - USE SIZE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
3. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
4. THICKNESS - NOT LESS THAN SIX (6) INCHES.
5. WIDTH - 20 FEET.
6. GEOTEXTILE FABRIC - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
7. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERGED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PREVENTED FROM CROSSING THE ENTRANCE. IF PAVING IS IMPRACTICAL, A MOUNTAINABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
8. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO OTHER CAMPUS AREA THIS WAY. REQUIRE PERIODIC TOP PRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY WEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO OTHER CAMPUS AREA, SHALL BE REMOVED IMMEDIATELY.
9. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO OTHER CAMPUS AREA WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
10. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
11. THE GEOTEXTILE FABRIC SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMER FIBERS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS, HYDRO-CARBONS, ALKALIS, NOT RESISTANT AND CONFORM TO THE PROPERTIES OF THE FOLLOWING TABLE:

FABRIC PROPERTIES	HULL ROADS ROUGH GRADED HEAVY DUTY	TEST METHOD
GRID TENSILE	220	ASTM D1882
STRENGTH (lbs.)	60	ASTM D1882
ELONGATION AT FAILURE (%)	430	ASTM D3786
MILLEN BURST		
STRENGTH (lbs.)	125	ASTM D751 modified
PUNCTURE STRENGTH (lbs.)	40-80	US Std Sieve CW-02715
EQUIVALENT OPENING SIZE		---
AGGREGATE DEPTH (in.)	10	---

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

REPLACE SITE LIGHTING AT VA LYONS CAMPUS

<p>Approved Title</p> <p>SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS</p>	<p>Project Title</p> <p>REPLACE SITE LIGHTING AT VA LYONS CAMPUS</p>
<p>Approved Designer/Chief</p> <p>Approved Services Director</p>	<p>Building Number</p> <p>Checked: JU</p> <p>Drawn: GMM</p>
<p>Location</p> <p>VA Lyons Campus, NJHS, LYONS, NJ</p>	<p>Drawing No.</p> <p>C21</p> <p>Project No.</p> <p>68044-08-003</p>
<p>Date</p> <p>23 MARCH 2010</p> <p>Sheet No.</p> <p>22 of 29</p>	<p>Office of Facilities</p> <p>Department of Veterans Affairs</p>



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Revision	Date

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Office of Facilities
Department of Veterans Affairs