

EROSION AND SEDIMENT CONTROL GENERAL NOTES

E-1) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE TO MINIMUM EROSION PREVENTION AND CONTROL MEASURES FOR EROSION AND SEDIMENT CONTROL. HANDBOOK AND VARIOUS REGULATIONS 9A02S-540 EROSION AND SEDIMENT CONTROL. REQUIREMENTS.  
 E-2) THE PLAN APPROVING AUTHORITY SHALL BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE CONSTRUCTION OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.  
 E-3) THE PLAN APPROVING AUTHORITY SHALL BE NOTIFIED PRIOR TO NOTIFYING ANY SITE WORK.  
 E-4) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.  
 E-5) THE PLAN APPROVING AUTHORITY SHALL BE NOTIFIED FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.  
 E-6) LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, OFF-SITE ROADS OR WASTE AREAS. THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE LOCAL PLAN APPROVING AUTHORITY.  
 E-7) EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY. EXISTING STRUCTURES SHALL BE SEEDED IMMEDIATELY UPON INSTALLATION.  
 E-8) TEMPORARY OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO AREAS OF EROSION IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED ON ALL PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE IMMEDIATELY TO IDENTIFIED AREAS THAT ARE ERODING EXCESSIVELY TO BE CORRECTED. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 6 MONTHS.  
 E-9) EROSION CONTROL SHALL BE STABILIZED OR PROTECTED WITH STRONG TRAPPING MEASURES, INCLUDING BUT NOT LIMITED TO, OFF-SITE ROADS OR WASTE AREAS. THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE LOCAL PLAN APPROVING AUTHORITY.  
 E-10) A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENuded AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED A TEMPORARY EROSION CONTROL MEASURE. EROSION CONTROL MEASURES SHALL BE OBTAINED AND MAINTAINED FOR A PERIOD OF 14 DAYS.  
 E-11) THE ROADWAY SHALL BE STABILIZED BY THE APPLICATION OF STONE BASE. UPON THE ROADWAY SHALL BE STABILIZED BY THE APPLICATION OF STONE BASE. UPON THE ROADWAY SHALL BE STABILIZED BY THE APPLICATION OF STONE BASE. UPON THE ROADWAY SHALL BE STABILIZED BY THE APPLICATION OF STONE BASE.  
 E-12) CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL PREVENT EROSION. SLOPES ARE TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZATION MEASURES. THE PROBLEM IS CORRECTED.  
 E-13) EROSION CONTROL MEASURES SHALL BE DOWN CUT OR FILL SLOPES UNLESS COMBINED WITH AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.  
 E-14) EROSION CONTROL MEASURES THAT ARE MORE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT UNLESS OTHERWISE ENTERED THE STORM WATER CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.  
 E-15) WHEN NEEDED, NITRATE LEAKAGE SHALL BE MONITORED. WHEN NEEDED, NITRATE LEAKAGE SHALL BE MONITORED. WHEN NEEDED, NITRATE LEAKAGE SHALL BE MONITORED. WHEN NEEDED, NITRATE LEAKAGE SHALL BE MONITORED.  
 E-16) ALL RVP-AR SHALL BE INSTALLED AFTER FILTER PAVING.  
 E-17) EROSION CONTROL MEASURES SHALL BE PROVIDED ON AN APPROVED FILTERING DEVICE.  
 E-18) ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED DRAINAGE CONTROL MEASURES.  
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3. VEGETATION SHALL BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:
  - a. VEGETATION SHALL BE PLANTED AT A RATE OF 100 PLANTS PER ACRE WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
  - b. SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENuded AREAS NOT PLANTED WITHIN SEVEN DAYS.
  - c. EROSION CONTROL MEASURES SHALL BE APPLIED TO ALL AREAS OF THE SITE. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DOMINANT FOR LONG TERM USE.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE PROTECTED BY EROSION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED OFF SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENuded AREAS NOT PLANTED WITHIN SEVEN DAYS. VEGETATION SHALL BE ESTABLISHED ON DENuded AREAS BY THE FIRST RAINFALL AFTER THE VEGETATION IS ESTABLISHED UNTIL A GRASS COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
6. EROSION CONTROL MEASURES AND EROSION PROTECTIVE DEVICES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN THE EROSION CONTROL PROGRAM. THEY SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE DISTURBANCE TRENDS PACE.
7. STABILIZATION MEASURES SHALL BE APPLIED TO EXISTING STRUCTURES SUCH AS DRAINAGE BASINS, EROSION CONTROL STRUCTURES, ETC. AS NECESSARY.
8. SEDIMENT TRAPS AND SEDIMENT BARRIERS SHALL BE DESIGNED AND CONSTRUCTED BASED ON THE FOLLOWING CRITERIA:
  - a. 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 RISES LESS THAN 1.0 FEET.
  - b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPOSED OF FLOW FROM DRAINAGE BASINS SHALL BE TRAPPED IN A SEDIMENT TRAP. THE MINIMUM STORAGE CAPACITY OF A BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE CATCHMENT AREA SHALL BE 24-HOUR RAINFALL OF 1.0 INCH PER ACRE OF DRAINAGE AREA.
  - c. THE TRAP SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE DISTURBANCE TRENDS PACE.

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL PREVENT EROSION, SLIDING, OR OTHER UNDESIRABLE EROSION OCCURRENCE. WHEN THE LIFE OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SOLE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

8. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE SHALL BE PROTECTED BY A PROPERLY CONSTRUCTED EROSION CONTROL MEASURE.

9. WHEREVER WATER EXPOSED TO A SLOPE CHAIN, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

10. WHEN A TEMPORARY STABILIZATION MEASURE IS 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.

11. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE CUT OR FILL SLOPES SHALL BE MADE OPERATIONAL, ADEQUATE OUTLET AND PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL Lining SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

12. WHEN WORK IN A LIVE WATERWAY IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EROSION/CONTROL, SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO PREVENT EROSION. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE USED FOR THE CONSTRUCTION OF CHANNELS AND CONVEYANCES. EROSION SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.

13. WHEN A LIVE WATERCOURSE MAY BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STRIP CHANNELS CONSTRUCTED TO MINIMIZE EROSION SHALL BE PROVIDED.

14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CLOSING LIVE WATERCOURSES SHALL BE MET.

15. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED WORK IN THE WATERCOURSE IS COMPLETED.

16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING MINIMUM IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500' LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-SLOPE SIDE OF TRENCHES.

C. EXCAVATION SHALL BE PROTECTED BY A PROPERLY CONSTRUCTED EROSION CONTROL THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BARRIERS AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

D. WHEN A TRENCH IS EXCAVATED, THE TRENCH SHALL BE PROPERLY CAPTURED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.

E. REPRODUCTION SHALL BE CONSIDERED IN ACCORDANCE WITH THIS CHAPTER.

17. WHEN CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT HIGHWAY OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE EROSION OF SEDIMENT BY VEHICULAR TRAFFIC. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED ON BOTH ROAD SURFACE. THE ROAD SURFACE SHALL BE CLEARED THOROUGHLY AT THE END OF EACH ROAD. SEDIMENT SHALL BE REMOVED FROM THE ROADWAY BY SHOVELING OR BROADCASTING. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO ALLOW ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO ALL TEMPORARY STABILIZATION MEASURES.

18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SOLE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED TO PREVENT EROSION. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED AND THE DESTROYED SOLE AREAS RESULTING FROM THE DEPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND CONVEYANCE.

19. PROPERTIES AND WATERWAYS DRAINING FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENTATION, EROSION AND DAMAGE DUE TO INCREASED FLOW. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO PREVENT EROSION OF SEDIMENT. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO PREVENT EROSION OF SEDIMENT. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO PREVENT EROSION OF SEDIMENT.

20. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL OR THROUGH A PROPERLY CONSTRUCTED EROSION CONTROL MEASURE. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO PREVENT EROSION OF SEDIMENT. WHEN A TEMPORARY STABILIZATION MEASURE IS USED, THE MEASURE SHALL BE MAINTAINED TO PREVENT EROSION OF SEDIMENT.

21. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

A. THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF DISCHARGE OF THE CHANNEL OR PIPE IS NOT GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR

B. ALL NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO DETERMINE WHETHER THE CHANNEL WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS;

C. ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO DETERMINE WHETHER THE CHANNEL WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS; AND

D. ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO DETERMINE WHETHER THE CHANNEL WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS; AND

E. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS ARE NOT ADEQUATE TO RECEIVE THE DISCHARGE OF THE PROJECT, THE APPLICANT SHALL VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

F. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS ARE NOT ADEQUATE TO RECEIVE THE DISCHARGE OF THE PROJECT, THE APPLICANT SHALL VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

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AP. IF EXISTING NATURAL RECEIVING

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<p>FOR PERMANENT) TO PROVIDE ARE BROWN ON THE PLAN.</p> <p>SPREAD ON ALL WITH PERMANENT SEEDING NJECT.</p> <p>TER EACH MEASUREABLE ITEM. ALL</p> <p>0.10 ACRES OF OF UNPAVED SURF, AND IN SECTION E.1 OF THE LOW REDUCTION OF COSTS. PLEASE SEE</p> <p>EXISTING STORM SEWER ANALYSIS (POA) #1 AND POA #1 HAS AN ONSITE CAPACITY OF THIS SYSTEM WAS USED TO MODEL THE 4 CFS AND A TEN-YEAR DISCHARGE. PLEASE SEE LATIONS.</p> <p>A #2 HAS AN ONSITE CAPACITY OF THIS SYSTEM WAS USED TO MODEL THE 4 CFS AND A TEN-YEAR DISCHARGE. PLEASE SEE LATIONS.</p> <p>THE STORM SEWER MODEL DISCHARGE OUT OF THE EXISTING 4 CFS, WHICH IS IN SECTION E.5 OF THE</p> <p>REFERENCE FIRM PANEL DISCHARGES-070-06-3.C (LUMTS</p> <p>SECTION 6 NOT APPLICABLE.</p>	<p>Temporary measures shall be permanently removed after erosion and sedimentation.</p> <p>waterways downstream from development will be maintained from sediment deposition, erosion due to increases in volume, velocity and peak discharge. Stormwater runoff for the stated frequency of discharge in accordance with the following criteria: Stream bank stabilization and reduction incorporate natural channel design concepts create channels and shall be exempt from any velocity and velocity requirements for natural or artificial channels.</p> <p>070-06-03 for criteria</p>	<p>Please reference the Stormwater Management Narrative on the plans and in the Engineering Calculations packet for a discussion of this stormwater runoff addressed with this project.</p>
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<p>317 BR PVC</p> <p>17 W. NEL PVC</p>	<p>EN. (USE P</p>
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