Erosion and Sediment Control Submittal Checklist

General Site Erosion & Sediment Controls

- ☐ Erosion protection must be provided in interim and final designs
- ☐ Steep slopes must be protected from erosion
- ☐ Areas of concentrated flow must be protected from erosion
- ☐ Surface interfaces must be protected from erosion
- ☐ Calculations for sized controls, if required, must be provided in the Stormwater Management Plan Report

Phased Erosion & Sediment Control Plans

- ☐ Stormwater Management Plan (SWMP) block:

STORMWATER MANAGEMENT PLAN (SWMP)
LOD AREA: _____SF
EX BUA: _____SF
PR BUA: _____SF
IS PROJECT WITHIN THE NEUSE BUFFER ZONES 1 OR 2 (Y/N): _____

- ☐ Delineation of Neuse Buffer Zones 1 and 2 (Plan) if within 100’ of the Limits of Disturbance
- ☐ Delineation of the Limits of Disturbance (LOD)
- ☐ Stabilized Construction Entrance, min length 30'
- ☐ Fabric/Filtration-type Inlet Protection preferred for greater turbidity control
- ☐ Perimeter Controls - silt fencing should follow contour as much as possible to avoid need for stone outlets
- ☐ Concrete Washout
- ☐ Tree Protection Fencing
- ☐ Tree Removal Areas
- ☐ Staging/Stockpile areas
- ☐ Dewatering Controls
- ☐ Stabilized stockpile areas or note that soil stockpiles must be covered at the end of the day
- ☐ Any areas of altered concentrated flow will require a call-out with the 10-yr discharge velocity (must be stabilized to below 3 ft/s at return to existing)

Erosion & Sediment Control Details

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- ☐ Concrete Washout
- ☐ Tree Protection Fencing
- ☐ Tree Removal Areas
- ☐ Staging/Stockpile areas
- ☐ Dewatering Controls
- ☐ Stabilized stockpile areas or note that soil stockpiles must be covered at the end of the day
- ☐ Vegetative Stabilization
- ☐ NCG01 Ground Stabilization and Materials Handling
- ☐ NCG01 Self-Inspection, Recordkeeping, and Reporting

CONCENTRATED FLOW E&S CONTROLS, IF ANY DRAINAGE CHANGES ARE PROPOSED

- ☐ Downstream Flow Protection: All flows must leave the site better than or equal to the existing condition.
- ☐ Existing and proposed utilities must be labeled, including pipe size, pipe material, structure locations.
- ☐ Existing and proposed surface water runoff calculations, including velocity/shear, cross sections, and supporting data must be provided for each outlet from the site.
- ☐ Call out the 10-year velocity for all proposed concentrated flow conveyances at the outfall and upon return to existing conditions. Outflow pipe and channels must be protected until the 10-year velocity is at or below 3 feet per second.
- ☐ Pipe profiles must include 10-yr HGL on pipes and must show no surcharge.
- ☐ All outfalls must be protected against erosion.

NOTES

EROSION & SEDIMENT CONTROL NOTES

1. THE CONTRACTOR MUST SCHEDULE A PRECONSTRUCTION MEETING WITH NC STATE, ENVIRONMENTAL HEALTH AND SAFETY, STORMWATER AT LEAST 5 DAYS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
2. A COPY OF THE STORMWATER MANAGEMENT PLAN (SWMP) APPROVAL LETTER AND THE APPROVED PLANS AND PERMITS MUST BE MAINTAINED ON THE SITE AT ALL TIMES.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
4. SOIL STOCKPILES MUST BE HAULED IMMEDIATELY OFF SITE OR COVERED AT THE END OF THE DAY.
5. THE CONTRACTOR MUST INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) AND NC STATE EROSION AND SEDIMENT CONTROL REGULATIONS.

6. SELF-INSPECTIONS ARE REQUIRED AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD. REPORTS MUST BE SENT TO NCSU EROSION AND SEDIMENT CONTROL INSPECTOR. DEMLR MONITORING FORM, INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCGO1 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1 OR SIMILAR MAY BE USED.
7. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED ROAD SURFACE, THE ROAD SURFACE MUST BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT MUST BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING MUST BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
8. DURING DEWATERING OPERATIONS, WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
9. TURBIDITY IN THE RECEIVING WATER MUST NOT EXCEED 50 NEPHELOMETRIC TURBIDITY UNITS (NTU). ADDITIONAL BEST MANAGEMENT PRACTICES MAY BE REQUIRED BEYOND THOSE SHOWN ON THE PLAN.
10. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED WITHIN 14 DAYS MUST BE STABILIZED.

VEGETATIVE ESTABLISHMENT NOTES

1. ALL PERMANENT PERVIOUS AREAS MUST BE TILLED TO A DEPTH OF 12 INCHES IMMEDIATELY PRIOR TO LANDSCAPING ACTIVITIES. THESE AREAS MUST NOT BE SUBJECT TO COMPACTION.
2. ALL SEEDED AREAS MUST BE COVERED IN BIODEGRADABLE EROSION CONTROL MATTING. IF MORE THAN ONE FABRIC WIDTH IS REQUIRED, A MINIMUM OVERLAP OF 6" MUST BE PROVIDED.
3. STRAW BLANKETS MUST BE INSTALLED ON ALL FLAT, SEEDED AREAS. STRAW FIBERS MUST BE DRY AND FREE OF MOLD, WITH THE STRAW FIBERS EVENLY DISTRIBUTED THROUGH THE BLANKET SUCH THAT NO BARE AREAS ARE PRESENT.
4. DRAINAGE DITCHES AND SLOPES UP TO 3:1 GRADE MUST BE PROTECTED WITH AN EROSION CONTROL BLANKET COMPOSED OF 80% WOOD OR CELLULOSE FIBERS. THE FIBERS MUST BE 6-INCHES IN LENGTH AND EVENLY DISTRIBUTED THROUGH THE BLANKET WITH NO BARE AREAS. NETTING MUST HAVE A 1" X 2" GRID.
5. NATURAL FIBER MATTING MUST BE USED IN AREAS WITH HIGH VELOCITY FLOW OR AREAS WITH SLOPES GREATER THAN 3:1 GRADE. THE MATTING MUST HAVE AN OPEN WEAVE THAT IS UNIFORM AND CONSISTENT, WITH A MINIMUM WIDTH OF 6.5' AND A MINIMUM WEIGHT OF 11.8 OZ PER SQUARE YARD.

Professional Engineer Signature Date