

GENERAL CONSTRUCTION NOTES	Т
1. ALL WORK AND CONSTRUCTION ACTIVITIES ON THE PROJECT SITE SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A SAFE WORK SITE.	
2. THE ENGINEER AND OWNER RESERVE THE RIGHT TO MODIFY PROJECT WORK ITEMS (INCLUDING GRADING) AS DEEMED NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. THE CONTRACTOR MAY SUGGEST ADJUSTMENTS TO GRADING OR OTHER WORK ITEMS TO BE APPROVED BY THE ENGINEER OR OWNER.	
3. THE CONTRACTOR SHALL COMPLY WITH THE GEOTECHNICAL REPORT FOR THE PLACEMENT OF FILL AND COMPACTION REQUIREMENTS. IF NO REPORT IS AVAILABLE, THE FOLLOWING MINIMUM STANDARDS SHALL APPLY:	
<ul> <li>PLACEMENT OF FILL:</li> <li>A. PLACE THE MATERIAL IN SUCCESSIVE HORIZONTAL LAYERS NOT EXCEEDING 8" FOR THE FULL WIDTH OF THE CROSS SECTION.</li> <li>B. FILL SHALL BE PLACED ONLY WHEN IT IS WITHIN 3% OF ITS OPTIMUM MOISTURE CONTENT AS DETERMINED BY A STANDARD PROCTOR ASTM D 698.</li> <li>C. EACH LAYER OF FILL SHALL BE SPREAD EVENLY AND SHALL BE COMPACTED TO ITS SPECIFIED DENSITY AS DETERMINED BY STANDARD PROCTOR ASTM D 698 BEFORE NEW LAYERS ARE PLACED AND COMPACTED.</li> <li>D. SLOPED GROUND SURFACES STEEPER THAN ONE VERTICAL TO FOUR HORIZONTAL, ON WHICH FILL IS TO BE PLACED, SHALL BE STEPPED OR BENCHED SUCH THAT FILL MATERIAL WILL BOND TO THE EXISTING SURFACES.</li> <li>E. EMBANKMENT SLOPES SHALL BE CONSTRUCTED BY FILLING ONE (1) FOOT BEYOND THE PROPOSED FINISHED SLOPE SURFACE FOR EACH LIFT. COMPACTION EQUIPMENT SHALL WORK TO THE EDGE OF EACH LIFT. AFTER THE ENTIRE FILL IS PLACED AND COMPACTED, THE OUTSIDE FOOT OF THE SLOPE SHALL BE TRIMMED TO THE DESIGN SLOPE WITH A DOZER. UNLESS INDICATED ON THE DRAWINGS, NO FILL SLOPES SHALL BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.</li> </ul>	
<ul> <li><u>COMPACTION:</u></li> <li>A. STRUCTURAL FILL UNDER BUILDINGS AND WITHIN 10' OF BUILDING PERIMETER, 100% OF STANDARD PROCTOR THE ENTIRED DEPTH OF FILL.</li> <li>B. UNDER WALKS, DRIVES, PADS, AND PAVED AREAS: 95% OF STANDARD PROCTOR EXCEPT 100% OF STANDARD PROCTOR IN THE UPPER 2'.</li> <li>C. UNDER LAWNS AND PLANTING AREAS BEYOND 10' FROM BUILDING: 95% OF STANDARD PROCTOR.</li> <li>D. BACKFILL IN TRENCHES: COMPLY WITH COMPACTION REQUIREMENTS FOR THE AREA THROUGH WHICH THE TRENCH RUNS 4. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, DIVERSIONS, SEDIMENT TRAPS, ETC. SHALL BE MAINTAINED IN WORKABLE CONDITIONS FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY WITH THE ENGINEER'S APPROVAL. SEE THE NPDES REQUIREMENTS ON THIS PLAN SHEET FOR MORE DETAIL. IF DURING THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE CONTRACTOR SHALL ADHERE IF OF THE PROJECT A STORM CAUSES SOIL EROSION WHICH CHANGES THE FINISHED GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO THE APPROVED EROSION CONTROL PLAN AND TAKE ANY ADDITIONAL MEASURES NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.</li> </ul>	R 5. Y
<ul> <li>4. DISPOSABLE MATERIALS:</li> <li>A. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT THEIR EXPENSE, UNLESS OTHERWISE SPECIFIED.</li> <li>B. SOLID WASTES TO BE REMOVED SUCH AS SIDEWALKS, CURBS, PAVEMENT, ETC. MAY BE PLACED IN SPECIFIED DISPOSAL AREAS IF PERMITTED BY THE APPROPRIATE AGENCIES AND APPROVED BY THE OWNER. THIS MATERIAL SHALL BE SPREAD AND MIXED WITH DIRT ELIMINATING ALL VOIDS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2'. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THIS WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT THEIR EXPENSE.</li> <li>C. ABANDONED UTILITIES SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTING, PIPE APPURTENANCES, UTILITY POLES, ETC. SHALL BE THE PROPERTY OF THE SPECIFIED UTILITY AGENCY OR COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE, DESTROY, SALVAGE, RE-USE, SELL OR STORE FOR THEIR OWN USE ANY ABANDONED UTILITY, THEY MUST PRESENT TO THE OWNER WRITTEN PERMISSION FROM THE UTILITY INVOLVED.</li> <li>D. UNLESS OTHERWISE NOTED ON THE PLANS, BURNING WILL NOT BE ALLOWED ON THIS PROJECT. SHOULD BURNING BE ALLOWED BY THE OWNER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS (AT THEIR EXPENSE AND FOLLOW ALL APPLICABLE RULES AND REGULATIONS.</li> </ul>	
6. UNLESS OTHERWISE SPECIFIED, ALL BASE, PAVING, CURBING AND OTHER CONCRETE WORK SHALL CONFORM TO THE LOCAL MUNICIPALITY OR NCDOT SPECIFICATIONS FOR CONSTRUCTION. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO THE LOCAL UTILITY REQUIREMENTS AND/OR THE NCDENR MINIMUM STANDARDS.	
7. IN THE EVENT EXCESSIVE GROUND WATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NECESSARY UNDERDRAINS AND STONE AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE PAID BASED UPON THE UNIT PRICES UNLESS OTHERWISE SPECIFIED.	
8. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSES (INCLUDING MANHOLE COVERS, VALVE BOXES, ETC.) WHETHER HE PERFORMS THE WORK OR THE UTILITY COMPANY PERFORMS THE WORK.	
9. THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH OSHA REGULATIONS.	
10. ALL AREAS OF EXPOSED SOIL SHALL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS. THE FINISHED SURFACE SHALL BE TO GRADE AND SMOOTH, FREE OF ALL ROCKS LARGER THAN 3", EQUIPMENT TRACKS, DIRT CLODS, BUMPS, RIDGES, AND GOUGES PRIOR TO SEEDING. THE SURFACE SHALL BE LOOSENED TO A DEPTH OF 1"+/- TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER'S APPROVAL OF THE GRADED SURFACE. ALL SEEDING SHALL BE PERFORMED BY A MECHANICAL "HYDRO-SEEDER". THE ENGINEER PRIOR TO SEEDING MUST APPROVE HAND SEEDING ON ANY AREA.	
11. GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OF OPTIMUM GERMINATION SEASON WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.	
GENERAL CONSTRUCTION NOTES	٦
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<ul> <li>EROSION CONTROL CONSTRUCTION SEQUENCE</li> <li>1. OBTAIN PLAN APPROVAL AND APPLICABLE PERMITS.</li> <li>2. HOLD PRE CONSTRUCTION CONFERENCE. (PLEASE SEE NPDES REQUIREMENTS ON THIS SHEET).</li> <li>3. INSTALL PERMIT BOX (INSPECTION REPORT AND PERMITS TO BE PLACED IN BOX).</li> <li>5. INSTALL PERMITE DOX STRUCTION ENTRY/EXIT</li> <li>6A. INSTALL PERMETER MEASURES INCLUDING SILT FENCE AND REINFORCED STABILIZED OUTLETS.</li> <li>6B. INSTALL AND STABILIZE SKIMMER SEDIMENT BASIN AND BASIN INLETS. CONTRACTOR TO ENSURE GRADING OR BASIN INSTALLATION DURING ANTICIPATED WET-WEATHER CONDITIONS DOES NOT OCCUR. GROUND COVER IS TO BE ESTABLISHED IMMEDIATELY.</li> <li>6C. CLEAR ONLY THE AREAS NECESSARY FOR THE INSTALLATION OF EROSION CONTROL MEASURES.</li> <li>7. CLEAR AND GRUB SITE. STOCK PILE TOP SOIL ON SITE AS DIRECTED BY ENGINEER. ALL STUMPS AND WOODCHIPS TO BE REMOVED OFFSITE.</li> <li>8. ROUGH GRADE SITE IN A MANNER THAT DIRECTS RUNOFF TOWARDS THE PROPOSED SEDIMENT BASIN THROUGHOUT THE DURATION OF THE PROJUCET.</li> <li>9. ANY DENUDED AREA THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN THE NPDES STABILIZATION TIME FRAME SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING TO TEMPORARILY STABILIZE THE AREA. IF THE SEASON OR HARSH CONDITIONS PREVENT THE ESTABLIANENT OF A TEMPORARY COVER, DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL ACCORDING TO SPECIFICATIONS.</li> <li>10. CONSTRUCT STORM DRAINAGE SYSTEM AND INSTALL INLET PROTECTION AROUND EACH CATCH BASIN AS THEY ARE INSTALLED.</li> <li>11. FINAL GRADE SITE.</li> <li>12. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED IN ACCORDANCE WITH NPDES REGULATIONS, NEEDED REPARS SHALL BE MADE IMMEDIATELY.</li> <li>13. AFTER SITE IS FINE GRADED, PERMANENT VEGETATION SHALL BE INSTALLED.</li> <li>14. ABANDON SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED IN ACCORDANCE WITH NPDES REGULATIONS, NEEDED REPARS SHALL BE MADE IMMEDIATELY.</li> <li>13. AFTER STALE MADE IMMEDIATELY.</li> </ul>	6.
15. CONTRACTOR SHALL NOTIFY THE HENDERSON COUNTY INSPECTOR AT 828-694-6521 WHEN PROJECT IS READY FOR CLOSE OUT INSPECTION. 16. FILE FOR NPDES NCG010000 e-NOT WHEN PROJECT CLOSE OUT INSPECTION IS RECEIVED FROM LQS.	

17. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL ESTABLISH A BERM OR DITCH AT THE TOP OF ALL FILL SLOPES. THE BERM OR DITCH SHALL BE CONSTRUCTED TO PREVENT POTENTIAL RUNOFF FROM SHEET FLOWING OVER AND DOWN THE SLOPE. POSITIVE DRAINAGE SHALL BE ESTABLISHED TO THE INLETS OF ANY SLOPE DRAINS.

NOT TO SCALE

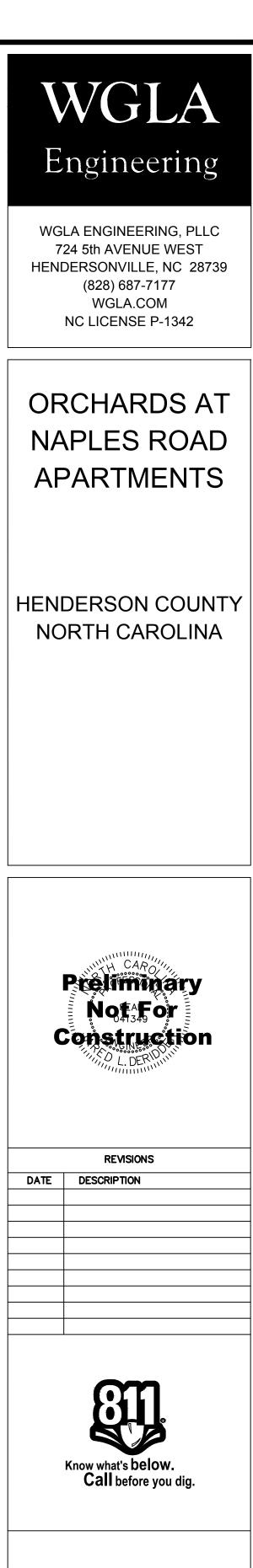
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#### SEEDING SPECIFICATIONS I. TEMPORARY COVER LIME & FERTILIZER A. LIME & FERTILIZER CONTRACTOR SHALL FURNISH AND APPLY LIME AND FERTILIZER TO THE SOIL AS REQUIRED TO PROVIDE SATISFACTORY CONDITIONS FOR SEED GERMINATION. A NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOILS TEST OR EQUAL SHALL BE OBTAINED FOR ALL AREAS TO BE SEEDED. RECOMMENDED FERTILIZER AND pH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO APPLICABLE AREAS BASED ON THE TEST RESULTS. THESE MATERIALS SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE PLANTED. THE SOIL SHALL BE TILLED TO A DEPTH OF 3 - 4 INCHES WITH EQUIPMENT APPROVED BY THE ENGINEER. TEMPORARY COVER SEEDING - CONTRACTOR SHALL SELECT A QUICK GROWING GRASS WITH HIGH SEEDING VIGOR THAT IS SUITED TO THE AREA, THE TIME OF PLANTING, AND THAT WILL NOT INTERFERE WITH PLANT TO BE SOWN LATER FOR PERMANENT COVER. MAY THROUGH AUGUST SUNDANGRASS 50 LB / AC OR GERMAN MILLET 40 LB / AC SEPT. THROUGH APRIL 120 LB / AC RYEGRAIN ALL SEEDS SHALL HAVE BEEN TESTED NOT MORE THAN 6 MONTHS PRIOR TO THE DATE OF SEEDING. CONTRACTOR SHALL APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULICALLY. A SLURRY MIXTURE OF WATER, FERTILIZER, SEED AND CELLULOSE FIBER MULCH IS ACCEPTABLE ON THIS PROJECT. C. MULCHING IN ORDER TO REDUCE DAMAGE FROM WATER RUN-OFF AND IMPROVE MOISTURE CONDITIONS FOR SEEDLINGS, A MULCH MATERIAL SHALL BE FURNISHED WHEN TEMPORARY SEEDING IS TO BE DONE. ACCEPTABLE MATERIALS ARE: -DRY UNCHOPPED, UNWEATHERED SMALL GRAIN STRAW OR HAY FREE OF SEEDS OF COMPETING PLANTS - 1-2 TONS / ACRE -WOOD FIBER (EXCELSIOR) -WOOD CELLULOSE FIBER - 500 LBS / ACRE WITHOUT STRAW -JUTE MATTING II. PERMANENT COVER A. CONTRACTOR SHALL FURNISH AND APPLY 1- A NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOILS TEST OR EQUAL SHALL BE OBTAINED FOR ALL AREAS TO BE SEEDED. RECOMMENDED FERTILIZER AND pH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO APPLICABLE AREAS BASED ON THE TEST RESULTS. 2- 2.3 LBS / 1000 SF OF KENTUCKY 31 TALL FESCUE (100 LBS / ACRE) IN THE MANNER DESCRIBED ABOVE IN PARTS 1, 2 AND 3. APPLY NURSE CROP AS FOLLOWS: MAY 1 – AUG 15 – 10 LBS / AC GERMAN MILLET OR - 15 LBS / AC SUNDANGRASS AUG 15 - MAY 1 - 40 LBS / AC RYE (GRAIN) B. SEEDING DATES: KY.31 TALL FESCUE (BELOW 2500' ELEV) AUG 20 - SEPT 15 MARCH 1 - MAY 1 (ABOVE 2500' ELEV) JULY 15 - AUG 30 MARCH 5 - MAY 15 C. MULCHING APPLY 4000 LB / AC OF GRAIN STRAW SUITABLY TACKED DOWN. ADD NETTING TO STEEP SLOPES AND STAPLE PER MANUFACTURERS RECOMMENDATIONS III. SOIL PREPARATION A. GENERAL REQUIREMENTS 1-PREPARATION FOR PRIMARY/PERMANENT STABILIZATION SHALL NOT BEGIN UNTIL ALL CONSTRUCTION AND UTILITY WORK WITHIN THE PREPARATION AREA IS COMPLETE. HOWEVER, IT MAY BE NECESSARY TO PREPARE FOR NURSE CROPS PRIOR TO COMPLETION OF CONSTRUCTION AND INSTALLATION OF UTILITIES. 2-A NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOILS TEST (OR EQUAL) SHALL BE OBTAINED FOR ALL AREAS TO BE SEEDED, SPRIGGED, SODDED OR PLANTED. RECOMMENDED FERTILIZER AND pH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO THE PREPARED AREAS AND BACKFILL MATERIAL PER THE TEST. 3-ALL AREAS TO BE SEEDED OR PLATED SHALL BE TILLED OR RIPPED TO A DEPTH OF 4". RIPPING CONSISTS OF CREATING FISSURES IN A CRISS-CROSS PATTERN OVER THE ENTIRE SURFACE AREA USING AN IMPLEMENT THAT WILL NOT GLAZE THE SIDE WALLS OF THE FISSURES. SITE PREPARATION THAT DOES NOT COMPLY WITH THESE DOCUMENTS SHALL NOT BE ACCEPTABLE. THE DEPTH OF SOIL PREPARATION MAY BE ESTABLISHED AS A RANGE BASED ON THE APPROVAL OF THE REVIEW AGENCY. ONCE TILLED OR RIPPED ACCORDING TO THE APPROVED PLAN, ALL AREAS ARE TO BE RETURNED TO FINAL GRADE. pH MODIFIERS AND/OR OTHER SOIL AMENDMENTS SPECIFIED IN THE SOIL TESTS CAN BE ADDED DURING THE SOIL PREPARATION PROCEDURE OR AS DESCRIBED BELOW. 4-ALL STONES LARGER THAN 3" ON ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOUS MATERIALS THAT SURFACE DURING THE BED PREPARATION SHALL BE REMOVED. B. AREAS TO BE SEEDED 1-TILL OR DISC THE PREPARED AREAS TO BE SEEDED TO A MINIMUM DEPTH OF 4". REMOVE STONES LARGER THAN 3" ON ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOUS MATERIALS THAT SURFACE. IF NOT INCORPORATED IN THE RIPPING PROCESS, ADD pH MODIFIERS AND FERTILIZERS AT THE RATE SPECIFIED. 2-RECOMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE SMOOTH EVEN SOIL SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. ALL RIDGES AND DEPRESSIONS SHALL BE REMOVED AND FILLED TO PROVIDE THE APPROVED SURFACE DRAINAGE. SEEDING THE GRADED AREAS IS TO BE DONE IMMEDIATELY AFTER FINISHED GRADES ARE OBTAINED AND SEEDBED PREPARATION IS COMPLETE. C. AREAS TO BE SPRIGGED, SODDED, AND/OR PLANTED 1-AT THE TIME OF PLANTING, TILL OR DISC THE PREPARED AREA TO A DEPTH OF 4"-6" BELOW THE APPROVED FINISHED GRADE. REMOVE ALL STONES LARGER THAN 3" ON ANY SIDE, STICKS, ROOTS AND OTHER EXTRANEOUS MATERIALS THAT SURFACE. IF NOT INCORPORATED DURING THE RIPPING PROCESS, ADD pH MODIFIERS, FERTILIZER AND OTHER RECOMMENDED SOIL AMENDMENTS. 2-RECOMPACT THE AREA UTILIZING A CULTIPACKER ROLLER AND PREPARE FINAL GRADES AND DESCRIBED ABOVE. INSTALL SPRIGS, SOD AND PLANTS AS DIRECTED IMMEDIATELY AFTER FINE GRADING IS COMPLETE. MULCH, MAT AND/OR TACK AS SPECIFIED. IV. CLOSEOUT 1-REFER TO NCG01 REQUIREMENTS AND CONSTRUCTION SEQUENCE FOR GROUND STABILIZATION TIMEFRAMES. 2-CONTRACTOR RESPONSIBLE FOR ESTABLISHING GROUND COVER PRIOR TO CLOSE OUT OF EROSION CONTROL PERMIT OR ACCEPTANCE BY OWNER. GROUND COVER WILL BE CONSIDERED ESTABLISHED WHEN ALL EXPOSED SOILS HAVE BEEN STABILIZED WITH A PERMANENT PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80% WITH NO CONTIGUOUS BARE AREAS GREATER THAN ONE SQUARE YARD. VEGETATION DENSITY SHALL BE DETERMINED BY THE ENGINEER OR EROSION CONTROL INSPECTOR. 3-MULTIPLE SEEDING EFFORTS BY THE CONTRACTOR MAY BE REQUIRED FOR PORTIONS OF OR THE ENTIRE SITE TO ESTABLISH SUITABLE GROUND COVER.

11-15-23

SEEDING SPECIFICATIONS

NOT TO SCALE



PROJECT NUMBER DATE:

23150 6-10-25

**GRADING AND EROSION CONTROL** DETAILS

C-306

SCALE: AS NOTED

v. When adverse weather or					
nich it is safe to perform the ins	ng normal business hours in accordance with the table site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be	The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for		SELF-I SECTION C: REPORTING 1. Occurrences that Must Permittees shall report (a) Visible sediment de	
	ent of the next business day. Any time when inspections	inspection at all times during normal busi	ness hours.	(b) Oil spills if:	
ere delayed shall be noted in thenspectFrequency (during normal business hours)1) Rain gauge maintained in good working orderDaily	e Inspection Record. Inspection records must include: Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	Item to Document <ul> <li>(a) Each E&amp;SC measure has been installed</li> <li>and does not significantly deviate from the</li> <li>locations, dimensions and relative elevations</li> <li>shown on the approved E&amp;SC plan.</li> </ul>	Documentation RequirementsInitial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.	<ul> <li>They are 25</li> <li>They are less</li> <li>They cause s</li> <li>They are wit</li> <li>(c) Releases of haz of the Clean W</li> </ul>	s than 2 sheen o thin 100 zardou
2) E&SC At least once per Vleasures 7 calendar days and within 24	<ul> <li>"zero." The permittee may use another rain-monitoring device approved by the Division.</li> <li>1. Identification of the measures inspected,</li> <li>2. Date and time of the inspection,</li> <li>3. Name of the person performing the inspection,</li> </ul>	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(Ref: 40 CFR 30) (d) Anticipated by	02.4)
<ul> <li>hours of a rain event ≥ 1.0 inch in 24 hours</li> <li>3) Stormwater</li> <li>At least once per</li> </ul>	<ul> <li>4. Indication of whether the measures were operating properly,</li> <li>5. Description of maintenance needs for the measure,</li> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>1. Identification of the discharge outfalls inspected,</li> </ul>	(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	(e) Noncompliance environment.	
lischarge 7 calendar days outfalls (SDOs) and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible sediment leaving the site,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>	<ul> <li>(d) The maintenance and repair requirements for all E&amp;SC measures have been performed.</li> <li>(e) Corrective actions have been taken</li> </ul>	Complete, date and sign an inspection report. Initial and date a copy of the approved E&SC	<b>2. Reporting Timefra</b> After a permittee k the appropriate Div	become ivision i
4) Perimeter of ite At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in	<ul> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> </ul>	to E&SC measures. 2. Additional Documentation to be Kept on	plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	other requirement reported to the De 858-0368. Occurrence	
24 hours5) Streams or wetlands onsite or offsite where accessible)At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours6) Ground stabilization measuresAfter each phase of grading	<ul> <li>3. An explanation as to the actions taken to control future releases.</li> <li>If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: <ol> <li>Description, evidence and date of corrective actions taken, and</li> <li>Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.</li> </ol> </li> <li>1. The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing</li> </ul>	<ul> <li>site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical:</li> <li>(a) This General Permit as well as the Cen</li> <li>(b) Records of inspections made during the record the required observations on the</li> </ul>	bove, the following items shall be kept on the es during normal business hours, unless the n based on unique site conditions that make rtificate of Coverage, after it is received. the previous twelve months. The permittee shall the Inspection Record Form provided by the	(a) Visible sediment deposition in a stream or wetland	<ul> <li>Wi</li> <li>Wi</li> <li>sec</li> <li>Div</li> <li>cas</li> <li>If t</li> <li>rel</li> <li>mc</li> <li>der</li> <li>wit</li> </ul>
	<ul> <li>activity, construction or redevelopment, permanent ground cover).</li> <li>2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.</li> </ul>	electronically-available records in lieu shown to provide equal access and ut <b>3. Documentation to be Retained for Three</b>		<ul> <li>(b) Oil spills and</li> <li>release of</li> <li>hazardous</li> <li>substances per Item</li> <li>1(b)-(c) above</li> </ul>	• Wi sha loc
IOTE: The rain inspection reset	s the required 7 calendar day inspection requirement.		d made available upon request. [40 CFR 122.41]	(c) Anticipated bypasses [40 CFR	• A i
	-	ECTION G, ITEM (4) ASINS FOR MAINTENANCE OR CLOSE OUT se outlet structures that withdraw water from th		122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance	eff • Wi • Wi qu • Wi

- shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

# NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

### PART III -INSPECTION, RECORDKEEPING AND REPORTING

### t be Reported

t the following occurrences: eposition in a stream or wetland.

ons or more, an 25 gallons but cannot be cleaned up within 24 hours, en on surface waters (regardless of volume), or 100 feet of surface waters (regardless of volume).

lous substances in excess of reportable quantities under Section 311 r Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA ) or G.S. 143-215.85.

ses and unanticipated bypasses.

ith the conditions of this permit that may endanger health or the

#### and Other Requirements

omes aware of an occurrence that must be reported, he shall contact on regional office within the timeframes and in accordance with the ted below. Occurrences outside normal business hours may also be tment's Environmental Emergency Center personnel at (800)

#### eporting Timeframes (After Discovery) and Other Requirements

Within 24 hours, an oral or electronic notification.

Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.

If the stream is named on the NC 303(d) list as impaired for sediment related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.

*Within 24 hours*, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.

A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.

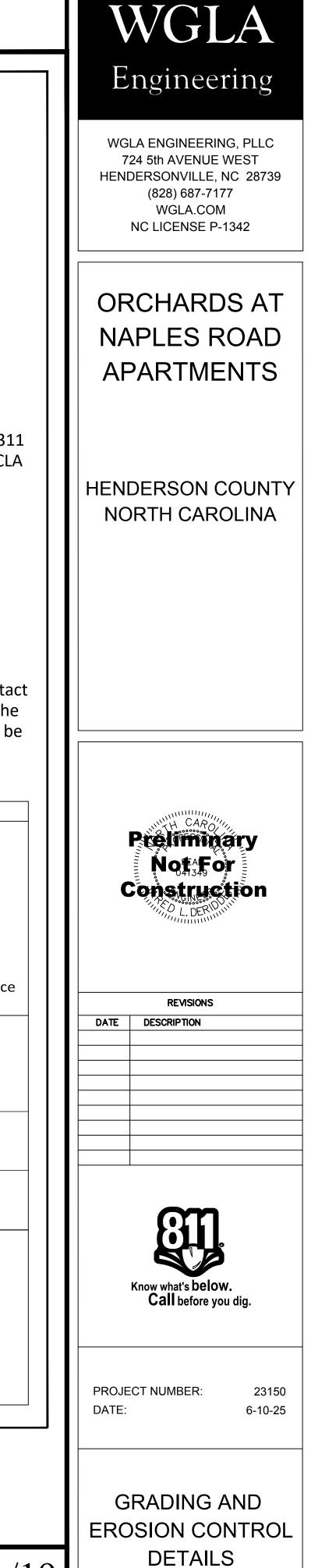
Within 24 hours, an oral or electronic notification.

*Within 7 calendar days,* a report that includes an evaluation of the quality and effect of the bypass.

Within 24 hours, an oral or electronic notification.

Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

## EFFECTIVE: 04/01/19



SCALE: AS NOTED

C-307

#### **GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH** THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction

	Re	equired Ground Sta	bilization Timeframes
Sit	te Area Description	Stabilize within th many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	<ul> <li>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1</li> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed</li> </ul>
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zong -10 days for Falls Lake Watershed unless there is zero slope
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ract ctivi urfa <b>ROU</b> tabi echr • Te ot • Hy • Ro w • Ap	ity. Temporary groun ce stable against acce UND STABILIZATION S lize the ground suffici niques in the table bel	d stabilization shall lerated erosion unt SPECIFICATION ently so that rain w low: ilization ered with straw or ers ducts with or eed w or other mulch	ndar days after the last land disturbing be maintained in a manner to render the il permanent ground stabilization is achieve ill not dislodge the soil. Use one of the
ract ctivi urfa <b>ROU</b> tabi echr • Te ot • Hy • Ro w • Ap	ity. Temporary groun ce stable against acce UND STABILIZATION S lize the ground suffici- niques in the table bel <u>Temporary Stab</u> emporary grass seed cove ther mulches and tackifie ydroseeding olled erosion control proc ithout temporary grass se ppropriately applied stray	d stabilization shall elerated erosion unt SPECIFICATION ently so that rain w low: ilization ered with straw or ers ducts with or eed w or other mulch	<ul> <li>ndar days after the last land disturbing be maintained in a manner to render the il permanent ground stabilization is achieve ill not dislodge the soil. Use one of the</li> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> </ul>

#### EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project
- Collect all spent fluids, store in separate containers and properly dispose as 4. hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

#### LITTER. BUILDING MATERIAL AND LAND CLEARING WASTE

- 1. Never bury or burn waste. Place litter and debris in approved waste containers. 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility. 8.
- On business days, clean up and dispose of waste in designated waste containers.

#### PAINT AND OTHER LIQUID WASTE

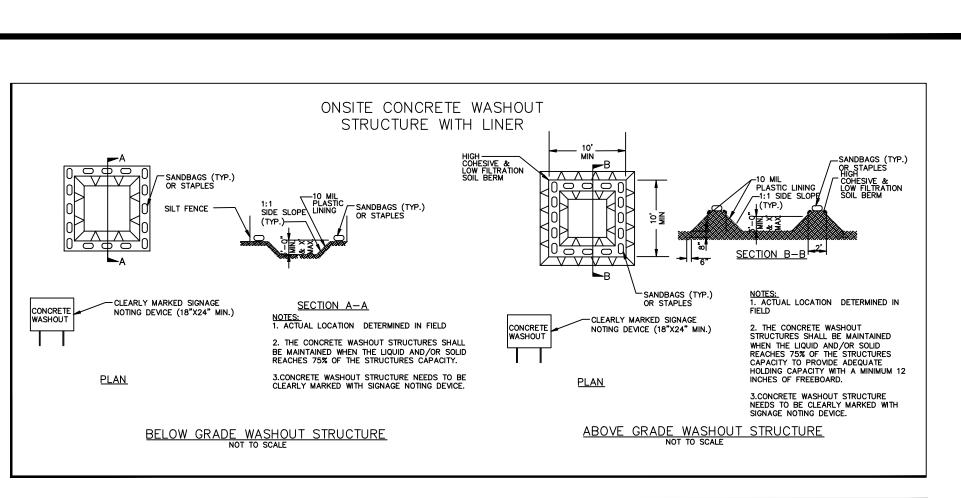
- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. 4.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

#### **PORTABLE TOILETS**

- 1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

#### EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



#### **CONCRETE WASHOUTS**

- lot perimeter silt fence.

- spills or overflow.
- approving authority.

- caused by removal of washout.

#### HERBICIDES, PESTICIDES AND RODENTICIDES

- restrictions.
- accidental poisoning.
- 4. Do not stockpile these materials onsite.

#### HAZARDOUS AND TOXIC WASTE

## STABILIZATION AND MATERIALS HANDLING

Do not discharge concrete or cement slurry from the site.

Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.

Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within

Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.

Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.

Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive

Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the

8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.

Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.

10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance

1. Store and apply herbicides, pesticides and rodenticides in accordance with label

Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of

3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.

1. Create designated hazardous waste collection areas on-site.

2. Place hazardous waste containers under cover or in secondary containment. 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

### EFFECTIVE: 04/01/19

WGLA Engineering
WGLA ENGINEERING, PLLC 724 5th AVENUE WEST HENDERSONVILLE, NC 28739 (828) 687-7177 WGLA.COM NC LICENSE P-1342
ORCHARDS AT NAPLES ROAD APARTMENTS
HENDERSON COUNTY NORTH CAROLINA
Preliminary Notar Construction
REVISIONS
DATE DESCRIPTION
Know what's below. Call before you dig.
PROJECT NUMBER: 23150 DATE: 6-10-25
GRADING AND EROSION CONTROL DETAILS
C-308
SCALE: AS NOTED