

Demolition Notes:

- CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 6. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA
- REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
 8. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- 9. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES

Erosion Control Provisions

- NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- 1. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
- 2. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000.00 PER DAY OF VIOLATION.
- 3. THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- 4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED AS PER THE DETAIL SHEETS SHOWN.
- 5. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR/PAMLICO RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, WASHINGTON REGIONAL OFFICE AT (252) 946-6481.
- 6. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
- 7. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE CITY.
- 8. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL INSPECTOR IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES. FOR INSPECTION CALL (252) 329-4467. 24 HOUR NOTICE IS REQUIRED.
- 9. INSTALL ROCK INLET SEDIMENT TRAPS AROUND ALL CATCH BASINS, DROP INLETS, AND YARD INLETS.

SCALE 1 inch =

) ft

Date:

06/15/2021





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Grading Notes:					
 TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED. CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE 					
FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW.					NOL
 TILL SOIL TO A DEPTH OF 4" MINIMUM. REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION. 					ESCRIPT
 GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING. ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. 					
 INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL. 					
 ALL SIDEWALKS SHALL BE CONSTRUCTED OF 4" THICK 3,500 PSI CONCRETE REINFORCED WITH 6x6 W1.4xW1.4 WELDED WIRE FABRIC. ALL SIDEWALKS SHALL HAVE TOOLED CONTROL JOINTS NOT EXCEEDING 5' SPACING IN ANY 					
DIRECTION. 9. ALL SIDEWALK AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 100% OF ASTM DE08 TO A DEDTH OF 24" AND TO 05% OF ASTM DE08 BELOW 24"					DATE
DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM D698.	_		REVISI	ONS:	#
 ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL 			1121101	0110.	
LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.					
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SEEDING AND MULCHING:		.	pr	ΗH	l Car
The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre	AN		Ē	ЧÐ	Vorth
All Roadway Areas March 1 - August 31 September 1 - February 28	Z			Ξ	۱, ۲
Softember 1 - Periodary 25 50# Tall Fescue 10# Centipede 10# Bermudagrass (bulled) 35# Bermudagrass (bulled)		i	ge	OF	Cour
25#Definition500#Fertilizer4000#Limestone4000#Limestone		i	jaj	NO	Pitt (
March 1 - August 31 September 1 - February 28	A	/ 		CTI	/ille,
75#Tall Fescue75#Tall Fescue25#Bermudagrass (hulled)35#Bermudagrass (hulled)500#Fertilizer500#Fertilizer				SЕ(eenv
4000# Limestone 4000# Limestone Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.	DR	; ;		ĒR	of Gr
Approved Tall Fescue Cultivars 2nd Millennium Chipper Focus Masterpiece Quest Titan Ltd. Avenger Coronado Grande II Matador Rebel Exeda Titanium	Σ	;	St.	LZ	City o
BarlexasCoyoteGreenkeeperMatador GTRebel SentryTomohawkBarlexas IIDavinciGreystoneMillenniumRegiment IITacerBarreraDynastyInfernoMontaukRembrandtTrooper		<u>;</u>		0	0
BarringtonDominionJusticeMustang 3RenditionTurboBiltmoreDusterJaguar 3Olympic GoldScorpionUltimateBingoEndeavorKalahariPadreShelbyWatchdog	ິ ເ)	th	L T	
BravoEscaladeKentucky 31ParaisoSigniaWolfpackCayenneFalcon II, III, IV & VKitty HawkPicassoSilverstarChapel HillFidelityKitty Hawk 2000PiedmontSouthern Choice II			ЧD	S H	
ChesapeakeFinesse IILexingtonPure GoldStetsonConstitutionFirebirdMagellanProspectTarheel					
PUBLIC WORKS DEPARTMENT CITY OF GREENVILLE, N.C. www.greenvillenc.gov No. Date Description 1500 Beatty Street USE WITH THE CITY OF GREENVILLE, N.C. STANDARD SPECIFICATIONS ONLY www.greenvillenc.gov No. Date Description					
EROSION CONTROL GUIDE Scale: Sheet #: Detail # 06/22/2022 - 1:58:05 PM	199	ש			
On cut and fill slopes 2:1 or steeper Centipede shall be applied at a rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 21.	nse: P-1		PLLC		
Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis	NC Lice	INSL	UP ERS & PL		шо
and as directed.		Non Non Non Non Non Non Non Non Non Non		00	roup.c
allowed on projects.			E	s Blvd. 27858 8	Iltinggı
Crimping shall be required on projects adjacent to any section of roadway where traffic is to be maintained or allowed during construction. In areas within six feet of the edge of payement, straw is to be applied and then		[Y	Charles lle, NC 8-0885	kconsu
crimped. After the crimping operation is complete, an additional application of straw shall be applied and immediately tacked with a sufficient amount of undiluted emulsified asphalt.		<	J	755-B (reenvil קס) קק	ww.ar
Straw mulch shall be sufficient length and quality to withstand the crimping operation.				2 <u>0</u>	, >
maximum spacing of crimper blades shall not exceed 8".		NH NIN	RTH CA	ROL	
		715	SEA	Ander	
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 PUBLIC WORKS DEPARTMENT 1500 Beatty Street CITY OF GREENVILLE, N.C. www.greenvillenc.gov No. Date Description 1 9/16/11 APPROVAL			cked By:		BCF
Greenville, North Carolina 27834 USE WITH THE CITY OF GREENVILLE, N.C. STANDARD SPECIFICATIONS ONLY Detail # EROSION CONTROL GUIDE Scale: Sheet #: Detail # 3 of 3 310.01	Drav	wing	Number:	1 D-	-1279

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Date:

06/15/2021

30' 0 15' 30' SCALE 1 inch = 30 ft

Erosion Control Measures:

- 1. All work will be done in accordance with the City of Greenville Erosion Control Ordinance. No land disturbing activity beyond that required to install the appropriate erosion control measures may proceed until measures are inspected and approved by the City of Greenville. Call (252) 329-4467 to schedule an inspection.
- 2. Prior to clearing & grubbing or topsoil removal, all perimeter silt fence and temporary gravel construction entrances shall be installed. After clearing & grubbing and topsoil removal, storm drainage culverts and structures shall be installed. Rock Inlet Sediment Traps shall be placed around all drainage structures to collect surface runoff and control siltation and release water at a gradual rate. All easements outside the parking lot where storm pipes are installed will be graded, seeded and mulched.

3. Road beds shall have stone base placed on them for stabilization and shoulders shall be seeded to stabilize the soil. Seed bed preparation shall be conducted according to North Carolina Department of Transportation Standard Specifications for Roads and Structures (D.O.T.). The ground surface shall be cleared of stumps, stones, roots, cables, wire, grade stakes, and other materials that might hinder proper grading, tillage, seeding or subsequent maintenance operations. Grades on the area to be seeded shall be maintained in a true and even condition. Maintenance shall include any necessary repairs to previously graded areas. All graded areas shall be thoroughly tilled to a depth of at least four (4) inches by plowing, disking, harrowing, or other approved methods until the condition of the soil is acceptable. On sites where soil conditions are such that high clay content and excessive compaction cause difficulty in getting clods and lumps effectively pulverized, the Contractor shall use the rotary tillage machinery until the mixing of the soil is acceptable and no clods or clumps remain larger than 1 1/2 inches in diameter. A firm and compact seed bed is required and after being graded, the seed bed shall be lightly compacted with a land roller, such as a cultipacker, before and after seeding. Limestone shall be dolomitic agriculture ground limestone containing not less than 10 percent magnesium oxide. Lime shall be uniformly applied at the rate of 2 tons per acre. Fertilizer shall be uniformly applied at a rate of 500 pounds per acre of 10-20-20 analysis. The fertilizer shall be incorporated into the upper three or four inches of prepared seed bed just prior to the last tillage operation, but in no case shall it be applied more than three days prior to seeding. Fertilizer shall be used immediately after delivery or stored in a manner that will not permit it to harden or destroy its effectiveness.

When hydroseeding equipment is used for seeding, fertilizer shall be applied simultaneously with seed, using the above rates of application. Seed shall be certified seed or equivalent based on North Carolina Seed Improvement Association requirements for certification. All seed shall be furnished in sealed standard containers. Seed which has become wet, moldy, or otherwise damaged prior to seeding will not be acceptable. Seeding shall be accomplished with hand planters, power- drawn planters, hand packers, or hydroseeding equipment.

- 4. Ground Stabilization (Per NCG010000) a. Soil stabilization shall be achieved on any area of a site where land-disturbing activities have temporarily or permanently ceased according to the following
 - schedule: i. All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or
 - permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity. ii. All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14
 - calendar days from the last land-disturbing activity.
 - b. Conditions In meeting the stabilization requirements above, the following conditions or exemptions shall apply:
 - i. Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable. ii. All slopes 50' in length or greater shall apply the ground cover within 7 days except when the slope is flatter than 4:1. Slopes less than 50' shall apply ground cover within 14 days except when slopes are steeper than 3:1, the 7 day-requirement applies.
 - iii. Any sloped area flatter than 4:1 shall be exempt from the 7-day ground cover requirement.
 - iv. Slopes 10' or less in length shall be exempt from the 7-day ground cover requirement except when the slope is steeper than 2:1. v. Although stabilization is usually specified as ground cover, other methods, such as chemical stabilization, may be allowed on a case-by-case basis.
 - vi. For portions of projects within the Sediment Control Commission-defined "High Quality Water Zone" (15A NCAC 04A. 0105), stabilization with ground
 - cover shall be achieved as soon as practicable but in any event on all areas of the site within 7 calendar days from the last land- disturbing act. vii. Portions of a site that are lower in elevation than adjacent discharge locations and are not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the approved E&SC plan or added by the permitting authority.

5. Self Inspection and Reporting Requirements (Per NCG010000)

- Minimum self inspection and reporting requirements are as follows unless otherwise approved in writing by the Division of Water Quality.
- a. A rain gauge shall be maintained in good working order on the site unless another rain monitoring device has been approved by the permitting authority. b. A written record of the daily rainfall amounts shall be retained and all records shall be made available to DWQ or authorized agent upon request. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, the cumulative rain measurement for those un-attended days will determine if a site inspection is needed. (Note: if no rainfall occurred, the permittee must record "zero"). c. Erosion and sedimentation control measures shall be inspected to ensure that they are operating correctly. Inspection records must be maintained for each
- inspection event and for each measure. At a minimum, inspection of measures must occur at the frequency indicated below: i. All erosion and sedimentation control measures must be inspected by or under the direction of the permittee at least once every seven calendar days, and ii. All erosion and sediment control measures must be inspected by or under the direction of the permittee within 24 hours after any storm event of greater than
- 0.50 inches of rain per 24 hour period. iii. Times when a determination that adverse weather conditions prevented inspections should be documented on the Inspection Record.
- d. Once land disturbance has begun on the site, stormwater runoff discharge outfalls shall be inspected by observation for erosion, sedimentation and other stormwater discharge characteristics such as clarity, floating solids, and oil sheens. Inspections of the outfalls shall be made at least once every seven calendar days and within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hour period.
- e. Inspections are only required to be made during normal business hours. When adverse weather conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection can be delayed until it is deemed safe to perform these duties. If the inspection cannot be done on that day, it must be completed on the following business day.
- f. Twenty-four Hour Reporting for visible sediment deposition
- i. The permittee shall report to the Division of Water Quality central office or the appropriate regional office any visible sediment being deposited in any stream or wetland or any noncompliance which may endanger health or the environment. Any information shall be provided orally or electronically within 24 hours from the time the permittee became aware of the circumstances. Visible discoloration or suspended solids in the effluent should be recorded on the Inspection Record
- ii. A written submission shall be provided to the appropriate regional office of the DWQ within 5 days of the time the permittee becomes aware of the circumstances The written submission shall contain a description of the sediment deposition and actions taken to address the cause of the deposition. The Division of Water Quality staff may waive the requirement for a written report on a case-by-case basis.
- g. Records of inspections made during the previous 30 days shall remain on the site and available for agency inspectors at all times during normal working hours, unless the permitting authority provides a site-specific exemption based on unique site conditions that make this requirement not practical. Older records must be maintained for a period of one year after project completion and made available upon request. The records must provide the details of each inspection including observations, and actions taken in accordance with this permit. The permittee shall record the required rainfall and monitoring observations on the "Inspection Record for Activities Under Stormwater General Permit NCG010000" form provided by the Division or a similar inspection form that is inclusive of all of the elements contained in the Division's form. Electronic storage of records will be allowed if approved by the permitting authority.
- h. Inspection records must include, at a minimum, the following: i. Control Measure Inspections: Inspection records must include at a minimum:
- 1. identification of the measures inspected,
- 2. date and time of the inspection, name of the person performing the inspection
- 4. indication of whether the measures were operating properly,
- 5. description of maintenance needs for the measure,
- 6. corrective actions taken and 7. date of actions taken.
- ii. Stormwater Discharge Inspections: Inspection records must include at a minimum:
- 1. identification of the discharge outfall inspected, 2 date and time of the inspection
- 3. name of the person performing the inspection
- 4. evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,
- 5. indication of visible sediment leaving the site, 6. actions taken to correct/prevent sedimentation and
- 7. date of actions taken.
- iii. Visible Sedimentation Found Outside the Site Limits: Inspection records must include:
- 1. an explanation as to the actions taken to control future releases
- 2. actions taken to clean up or stabilize the sediment that has left the site limits and the date of actions taker
- iv. Visible Sedimentation Found in Streams or Wetlands: All inspections should include evaluation of streams or wetlands onsite or offsite (where accessible) to determine if visible sedimentation has occurred. 1. Visible Stream Turbidity - If the discharge from a site results in visible stream turbidity, inspection records must record that evidence and actions taken to
- reduce sediment contributions. Sites discharging to streams named on the state's 303(d) list as impaired for sediment-related causes may be required to perform additional monitoring, inspections or application of more-stringent management practices if it is determined that the additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. If a discharge covered by this permit enters a stream segment that is listed on the Impaired Stream List for sediment-related causes, and a Total Maximum Daily Load (TMDL) has been prepared for those polluntants, the permittee must implement measures to ensure that the discharge of pollutants from the site is consistent with the assumptions and meets the requirements of the approved TMDL. he DWQ 303(d) list can be found at: http://h2o.enr.state.nc.us/tmdl/General_303d.htm/

6. All erosion and sedimentation control devices shall remain in place and be maintained by the Contractor until all seeding is established and construction areas have been stabilized.

7. Temporary Seeding - Seed in accordance with Soil Conservation Service recommendations with regard to seed type, rate of application, fertilizer, etc.









