BUFFALO RIDGE- MAJOR SUBDIVISION LAKE LURE TOWNSHIP RUTHERFORD COUNTY, N.C.



CONTACT INFORMATION:

ODOM ENGINEERING, PLLC ATTN: DAVID ODOM, PE, LARISSA COLES, PE or SCOTT ROACH, EIT 169 OAK ST, FOREST CITY, NC 28043 828-247-4495

SEDIMENT AND EROSION CONTROL PLANS FOR

OWNER: DEVELOPMENT CAPITAL INVESTMENTS, LLC. PO BOX 46 CHIMNEY ROCK, NC

NOTE: (PER PLAT BOOK 43, PAGE 181) OR THAT NO RW EXISTS FOR PEARSON DRIVE

UTILITY/STRUCTURE

	OVERHEAD ELECTRICAL
	UNDERGROUND ELECTRICAL NATURAL
	GAS
	OVERHEAD TELEPHONE
	FIBER OPTIC
	SANITARY SEWER
	WATER
	FORCEMAIN
	CULVERT
	FIRE HYDRANT
	GATE VALVE
	SEWER MANHOLE
	POWER POLE
	PROPERTY LINE
	MAJOR CONTOURS
-	WINTOR CONTOURS
	DRAINAGE AREA
	GRADED SLOPES (AT 2:1 OR GREATER)
	DENUDED LIMITS
	TEMPORARY SILT FENCE W/OUTLET WEIR
	TEMPORARY DITCH/BERM
	CHANNEL MATTING
_	

WEST PORTION OF WHAT IS SHOWN AS PEARSON CIRCLE ON THE RUTHERFORD CO GIS SED FOR ACCESS TO HOMES WHILE THE NORTHEAST PORTION IS NOT IMPROVED 'EAR TO BE USED AS REGULAR PHYSICAL ACCESS. NO RIGHT OF WAY (RW) ROAD DEDICATION, ETC. HAS BEEN FOUND FOR PEARSON CIRCLE. AN INCOMPLETE PORTION OF THE "SCENIC MOUNTAIN TRAILER LOTS" PLAT (CALLED FOR IN ADJOINING DEEDS) WAS CALLS ON SAID PLAT VARIES FROM 19.6' TO 34.9' ON THE NORTHEAST PORTION OF SAID ROAD THAT HAS NOT BEEN CONSTRUCTED. AN APPROXIMATE 30' WIDE RW IS SHOWN HEREON FOR SAID NORTHEAST SECTION. HOWEVER, ADDITIONAL EVIDENCE MAY REVEAL A RW OF A DIFFERENT WIDTH

THE PROPERTY WITHIN THE EXISTING. CONSTRUCTED PORTION OF PEARSON CIRCLE MAY POSSIBLY BE A PORTION OF THE PROPERTY IN DB 212 PG 376. THIS AREA IS NOT INCLUDED IN THE 12.63 ACRES SHOWN HEREON. LINE L33 APPEARS TO BE THE INTENDED DIVIDING LINE BETWEEN THE SURVEYED PARCEL AND THE EXISTING, CONSTRUCTED PORTION OF PEARSON CIRCLE.





C-402

C-403

C-600

C-900

CALE: N.T.S.

DATE: 01/19/2023

CHECKED BY: DWO

PROJECT MGR: DWO

DRAWN BY: EHM

SHEET:

C-000



GENERAL NOTES:

RLY MARKED SIGMAGE Ng device (18"7:24" Min.;

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MANITAINED WHEN THE LIQUID AND/OR SOLID REACHES 755 OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF PRESENCE.

SCONORETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED W

- I. SITE IS IN BROAD RIVER BASIN.
- 2. INSTALL ALL OUTER PERIMETER MEASURES BEFORE BEGINNING ANY DEMOLITION / CLEARING & GRUBBING or ROUGH GRAD
- 3. ONLY DISTURB CLEAR OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT AREAS TO PRESERVE NATURAL VEGETATION.
- 4. CLEAR AND GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, MUCK, ROOTS, OR OTHER OBJECTIONABLE MATE
- 5. PLACE FILL IN LAYERS NOT TO EXCEED 6" IN THICKNESS AND COMPACT THE LAYERS AS REQUIRED TO TO REDUCE EROSIC
- 6. KEEP DIVERSIONS AND CHANNELS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT AT ALL TIMES.
- 7. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER. INCREASE INFILTRAT
- 8. AT THE END OF EACH DAY, CONTRACTOR SHALL ESTABLISH A BERM or DITCH AT THE TOP OF THE FILL SLOPE. THIS BERN SLOPE. POSITIVE DRAINAGE SHALL BE ESTABLISHED TO THE INLETS OF THE PROPOSED SLOPE DRAINS.
- 9. PERMANENTLY STABILIZE ALL GRADED AREAS IMMEDIATELY AFTER FINAL GRADING IS COMPLETED ON EACH AREA. APPLY T DELAYED FOR 15 WORKING DAYS OR 90 CALENDAR DAYS.
- 10. DENUDED LIMITS = 1.92 AC.
- II. SLOPES LEFT EXPOSED SHALL, WITHIN I 4 CALENDAR DAYS BE OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
- 12. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND UPKEEP OF ALL TEMPORARY MEASURES and SHALL MAINTAIN ALL
- 13. ANY BORROW OR WASTE MUST COME FROM OR GO TO A PERMITTED SITE AND/OR FACILITY.





	MAP L	EGEND		MAP INFORMATION
rea of In	terest (AOI)	000	Spoil Area	The soil surveys that comprise your AOI were mapped at
	Area of Interest (AOI)	Ô	Stony Spot	1:24,000.
oils	Onil Man Linit Daluman	0	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
		Ŷ	Wet Spot	
~	Soil Map Unit Lines	\triangle	Other	Enlargement of maps beyond the scale of mapping can cause
	Soil Map Unit Points		Special Line Features	line placement. The maps do not show the small areas of
Special	Point Features	Water Fea	atures	contrasting soils that could have been shown at a more detailed scale
	Borrow Pit	\sim	Streams and Canals	
ĕ.	Clay Spot	Transport	tation	Please rely on the bar scale on each map sheet for map
奕	Clay Spot	+ + +	Rails	measurements.
\diamond		\sim	Interstate Highways	Source of Map: Natural Resources Conservation Service
X	Gravel Pit	~~	US Routes	Web Soil Survey URL:
00	Gravelly Spot	\approx	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
٩	Landfill	\sim	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
A.	Lava Flow	Backgrou	ind	projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the
عليه	Marsh or swamp	No.	Aerial Photography	Albers equal-area conic projection, should be used if more
\mathcal{R}	Mine or Quarry			accurate calculations of distance or area are required.
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data as
0	Perennial Water			of the version date(s) listed below.
\vee	Rock Outcrop			Soil Survey Area: Rutherford County, North Carolina
÷	Saline Spot			Survey Area Data: Version 25, Sep 13, 2023
0 0 0 0	Sandy Spot			Soil map units are labeled (as space allows) for map scales
¢	Severely Eroded Spot			1:50,000 or larger.
\diamond	Sinkhole			Date(s) aerial images were photographed: Apr 1, 2022-May 9
3	Slide or Slip			2022
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor

shifting of map unit boundaries may be evident.

Custom Soil Resource Report

EFFECTIVE: 04/01/1

					JOB NUMBER:
					22112
NG.					DATE 1/24/20
O BE DIS	STURBED. EXCLUE	DE VEHICLES AND CONS	STRUCTION EQUIPN	IENT FROM THESE	
RIAI THA	AT WOULD AFFECT	THE PLANTED STABILITY	(OF THE FILL		
N. SLIPPA	AGE. SETTLEMENT.	OR OTHER RELATED PR	ROBLEMS.		
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ION, AND	D FACILITATE VEGET	TATION ESTABLISHMEN	IT.		DEQ
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or othe	ERWISE PROVIDED	WITH TEMPORARY OR I	PERMANENT GROUN	ID COVER, DEVICES,	D
IEASURE	ES UNTIL SITE IS PE	RMANENTLY STABILIZE	Э.		
					EVIGE
		Custom Soil Re	esource Report		
	Мар	Unit Legend (BUF	FALO RIDGE)		I HEREBY CERTIFY THAT TH PLAN AND SPECIFICATION WAS PREPARED BY ME OP
	Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	UNDER MY DIRECT SUPERVISION AND THAT I A A DULY REGISTERED
	PaD2	Pacolet sandy clay loam, 15 to 25 percent slopes, moderately eroded	19.7	53.7%	ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLINA
	RaE	Rion sandy loam, 25 to 45 percent slopes	16.7	45.3%	AS SIGNIFIED BY MY HAND AND SEAL.
	RCF	complex, 45 to 70 percent slopes	0.4	1.1%	
	Map	Unit Descriptions	BUFFALO RII	DGE)	
	solis of n with the A map ui major kir accordin class the landscap characte observed Areas of including up of the compone Most mir map unit noncontr particula and beha manager generally scale us are ident given are descriptic compone mentione was imp miscellar	niscellaneous areas in the survey maps, can be used to determine the nit delineation on a soil map repre- inds of soil or miscellaneous areas. If the taxonomic classification of the are precisely defined limits for the pe, however, the soils are natural pheno- d properties may extend beyond the soils of a single taxonomic class of a areas of other taxonomic classes is soils or miscellaneous areas for we ents that belong to taxonomic classes nor soils have properties similar to a and thus they do not affect use a fasting, or similar, components. The r map unit description. Other mino avioral characteristics divergent er ment. These are called contrasting of are in small areas and could not ead. Some small areas of strongly of the descriptions, especially we ractical to make enough observation and in the descriptions, especially we reactical to make enough observation and in the descriptions observed, and in the descriptions observation ons along with some characteristic and in the descriptions observation and the descriptions observation areas on the landscape. The descriptions observation and the descriptions observation and the descriptions observation areas of a single taxonoments in a mass or accuracy of the data. The observation and the descriptions observation and the description and the descripti	area. The map unit description the composition and properties sents an area dominated by . A map unit is identified and f the dominant soils. Within a the properties of the soils. Or obtenomena, and they have the omena. Thus, the range of so the limits defined for a taxono rarely, if ever, can be mapped as Consequently, every map to which it is named and some to ses other than those of the n those of the dominant soil o and management. These are they may or may not be mention or components, however, hav nough to affect use or to requid of the dissimilar, components. be mapped separately becar contrasting soils or miscellan haps. If included in the datable ents are identified in the map cs of each. A few areas of mi ap unit in no way diminishes opective of mapping is not to contrast the solution of the distingt and the solution appending and the solution of the solution on to the solution of the solution appending and the solution of the solution of the pattern was so contrast the solution of the solution and the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution o	ons, along as of a unit. one or more named a taxonomic n the ne ome mic class. d without unit is made minor najor soils. r soils in the called oned in a re properties aire different They use of the eous areas ase for a unit nor not hplex that it id	PLANS FOR BUFFALO RIDGE TOWN OF LAKE LURE CHIMNEY ROCK TOWNSHIP RUTHERFORD COUNTY, NC NOTES
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MATERIAL PROPERTY DATA SHEET

Permanent • Triple Net • Organic Fiber Matrix • Turf Reinforcement Mat

DESCRIPTION

SC250 Turf Reinforcement Mat (TRM) is composed of 70% straw and 30% coconut fibers mechanically (stitch) bound between a three-dimensional UV stabilized, synthetic net structure. Stitching is secured on two-inch centers using UV stabilized, synthetic thread. SC250 is a permanent, three-dimensional TRM that provides immediate erosion protection and long-term turf reinforcement and is intended for applications requiring erosion protection for greater than thirty-six months.

(15 mm)

(9.9 kN/m)

15.0 oz/sy (500 g/sm)

700 lbs/ft (10.2 kN/m)

30%

0.58 in.

675 lbs/ft

Each roll of SC250 is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content Idex Property Test Method Matrix Straw/Coconut Thickness ASTM D6525 /lass/Unit Area ASTM D6566 Top Net: Mediumweight, UV stable Middle Net: Corrugated Ultra-Heavyweight, UV stable Netting Tensile Strength – MD ASTM D6818 Bottom Net: Mediumweight, UV stable Tensile Strength – TD ASTM D6818 Synthetic, UV Stable Elongation - MD ASTM D6818

	St	andard Koll	Sizes	
Width	8 ft	(2.4 m)	6.5 ft	(2.0 m)
Length	90 ft	(27.4 m)	55.5 ft	(17.0 m)
Weight ± 10%	70 lb	(32.0 kg)	34 lb	(15.5 kg)
Area	80 sy	(66.9 m²)	40 sy	(33.4 m²)
Material available in custom roll sizes				

	Approvals & Classification	
assification	FHWA: Type 5.C / ECTC: Type 5.C	
l Approvals	Class 2 Type H	
TPEP Number	ECP-2019-03-014	

Disclaimer: The information contained herein may represent product index data, performance ratings bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability shall be assumed by Western Green or its affiliates regarding the completeness, accuracy or fit of these values for any particular application or interpretation. While testing methods are provid or reference, values shown may be derived from interpolation or adjustment to be representative o ntended use. For further information, please feel free to contact Western Green. ©2023, North American Green is a registered trademark from Western Green. Certain products and

or applications described or illustrated herein are protected under one or more U.S. patents. Other U.S. patents are pending, and certain foreign patents and patent applications may also exist. Trademark for the use contemplated, and its manner of use, is the sole responsibility of the user. Printed in the

Elongation – TD	ASTM D6818	20%
UV Stability	ASTM D4355	80% @1000 hr
Light Penetration	ASTM D6567	5%
Biomass Improvement	ASTM D7322	400%
Specific Gravity	ASTM D792	57.4 lb/ft ³ (0.92 g/cm ³)
Porosity	ECTC	N/A
	Design Paramet	ers
Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.05	N/A
Slope Maximum Gradient ¹	0.5H:1V	0.5H:1V
Permissible Shear Stress ²	3.0 psf (145 Pa)	10.0 psf (480 Pa)
Permissible Velocity ²	9.5 fps (2.9 m/s)	15 fps (4.6 m/s)
$\tau_{veg}^{}/\tau_{TRM}^{}$ (HEC-15)	N/A	0.67
Manning's n Roughness	(HEC-15)	
τ_{lower}	$\tau_{_{mid}}$	τ _{upper}
0.038	0.032	0.027
1 Maximum Gradient a recomendati 2 Hydraulic thresholds compliant wi 3 Vegetated values dependent on es	ion for typical installations. th ASTM D6459/D6460 but g stablished stand of vegetatior	eneralized for typical applications.

Rev. 4.2023 Scan for additional and updated product information, or <u>click here.</u>

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AMERICAN

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PAGE: NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR FALL NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR EDING MIXTURE LATE WINTER AND EARLY SPRING NON-INVASIVE PERMANENT SEEDING Species RECOMMENDATIONS FOR SUMMER Hard Fescue 15 lbs/acro 2.5—3.5 lbs/acre* Rate SEEDING MIXTURE Switchgrass ntipede 5 lbs/acre Indian Woodoats 1.5-2.5 lbs/acre* Indian Grass 5—7 lbs/acre* Species 5—7 lbs/acre* Big Bluestem Indian Woodoats 1.5-2.5 Indian Woodoats 1.5-2.5 lbs/acre Virginia Wild Rye 4—6 lbs/acre* lbs/acre* Virginia Wild Rye 4-6 lbs/acre* Virginia Wild Rye 4—6 lbs/acre* *Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment *Depending upon mix with other species. See table 6.11.d from *Depending upon mix with other Control Plannina and Desian Manual species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Chapter 6 of the NC Erosion and Design Manual. Seeding Dates Coastal or Eastern Piedmont for Centipede- Sept. 1 Sediment Control Planning and Design Seeding Dates Manual. Mountains - Hard Fescue- Aug 1 - June 1 Mountains- Switchgrass, Indian Grass, Big Bluestem- Dec 1 -Coastal and Piedmont for Indian Woodoats and Virginia Wild Rye- Feb 15 - April 1 Seeding Dates Mountains — July 15— Aug 15 April 15 Piedmont and Coastal- Switchgrass, Indian Grass, Big Bluestem-Mountains for Indian Woodoats and Virginia Wild Rye-Piedmont – Aug 15 – Oct 15 Dec 1 - April 1 Coastal— Indian Woodoats and Virginia Wild Rye— Sept 1 — Nov 1 Maintenance: Indian Woodoats and Virainia Wild Rve Significant maintenance may be required to obtain aintenance are both sun and shade tolerant. Hard Fescue is not recommended for slopes > 5%. Prefers desired cover once centipede is planted. Acceptable SEED BED PREPARATION: ነ tons/acre on

coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed. FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application. SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after NOTEBsished grades are obtained and seedbed preparation is completed. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframe's table. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted. Use a seeding mix that will produce fast growing nurse crops and includes non-invasive species that will eventually provide a permanent groundcover. Soil blankets may be used in lie of nurse crops. Mat, tack or crimp mulch, as needed to stabilize seeded areas until root establishment. Mulch must be applied uniformly over the soil with a cover density of at least

Ground cover shall be maintained until permanent vegetation is established and stable against accelerated erosion. PERMANENT SEEDING RECOMMENDATIONS

PERMANENT SEEDING RECOMMENDATIONS

			PAGE:
SEEDING RECOMMENDATIONS WINTER AND EARLY SPRING			
Rate (Ib/acre)	·		
e in 50 I Plain,	TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER Seeding Mixture Species Rate (lb/acre)	TEMPORARY SEEDING REC Seeding Mixture Species	Rate (Ib/acre)
en duration of temporary cover is not to	German millet 40 In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.	Rye (grain) Seeding Dates	120
eet: Feb. 15 - May 15 eet: Feb. 1- May 1 r. 15	Seeding Dates Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug. 15	Coastal Plain and Piedmont—Aug. 1 Mulch Apply 4,000 lb/acre straw. Anchor st netting, or a mulch anchoring tool. A	5 - Dec. 31 raw by tacking with asphalt, disk with blades set nearly
Anchor straw by tacking with asphalt, netting, A disk with blades set nearly straight can be tool.	Mulch Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	straight can be used as a mulch anc Maintenance Repair and refertilize damaged area:	horing tool. s immediately. Topdress with 50
ully adequate. Reseed, refertilize and mulch on or other damage.	Maintenance Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.	cover beyond June 15, overseed wit Coastal Plain) or Korean (Mountains early March.	h 50 lb/acre Kobe (Piedmont and) lespedeza in late February or
	SEED BED PREPARATION:		
ne according to soil test reco mestone at the rate of 1—1 ient. Apply limestone uniforml	ommendations. If the pH (acidity) of the soil $\frac{1}{2}$ tons/acre on coarse-textured soils and 2- y and incorporate into the top 4-6 inches c	is not known, an appli -3 tons/acre on fine-te f soil. Soils with a pH	cation of ground extured soils is of 6 or higher need
e application rates on soil tes fertilizer and lime should be	sts. When these are not possible, apply a 10 e incorporated into the top 4—6 inches of so	—10—10 grade fertilizer il. If a hydraulic seeder	at 700—1,000 is used, do not mix

seed and fertilizer more than 30 minutes before application. SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

TEMPORARY SEEDING RECOMMENDATIONS

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I HEREBY CERTIFY THAT THI PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AT A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLINA AND SEAL.

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