

Grading Notes

1. Initiate erosion control sequence before beginning clearing and grading operations.
2. Clear areas to be graded of all vegetation. Protect vegetation beyond clearing limits.
3. Strip remaining topsoil to full depth in areas to be graded and stockpile.
4. Compact all fill areas to 95% of maximum density.
5. All banks and swale side slopes shall be graded with no greater than 2:1 slopes in cut, 3:1 in fill.
6. All areas are to be graded so that no areas of standing water occur.
7. Proposed spot elevations are shown at finished grade (gutter flow line elevation, where applicable).
8. Graded area on this project is approximately 1.0 acre.
9. Operator shall field verify existing topography in relation to the proposed grades to ensure drainage in the directions indicated on the plan.
10. For tree protection areas, specimen trees and significant vegetation, the fence shall be located a minimum of one foot horizontal from the tree trunk for each one inch in tree trunk diameter (further if conditions permit). Generally, for trees ten inches or less DBH, the fence must be at least 10 feet from the base of the tree. For trees greater than ten inches, the fence must be a minimum of ten feet plus one foot for every inch in diameter above ten inches.
11. The tree protection fence shall be maintained on the site until all site work is completed and the final site inspection prior to the certificate of occupancy (CO) is scheduled. The fencing shall be removed prior to the final site inspection for the CO.
12. Disturbed area = 1.2 acres.
13. No wetlands exist on the site.
14. Watershed: the site drains to Black Creek, about 1/4 mile distant. Black Creek drains into Lake Crabtree, and then into the Neuse River. No NRB waterways exist on the site.
15. All cut and fill slopes shall be stabilized within fifteen days of any phase of grading.
16. Streets in front of the project shall be kept clean at all times.
17. Impervious surface = 0.8 acres.
18. The sediment basins and riprap proposed within the Southern 50' Buffer shall be field located to avoid damaging any nearby significant vegetation (i.e. trees 10" in caliper or larger).

Construction Sequence

1. The contractor shall arrange a pre-construction meeting with the owner's representative, contractor, and the Town of Cary environmental inspector prior to issuance of grading permit.
2. Obtain grading permit.
3. Install tree protection fence.
4. Contractor is to install all temporary sedimentation and erosion control measures as shown on the plan. Temporary sedimentation and erosion control measures shall be installed and inspected by the Town of Cary for compliance prior to any land disturbing activity.
5. Obtain Certificate of Compliance through on-site inspection by Town Environmental Inspector.
6. Proceed with grading.
7. Maintain diversions at tops of fill slopes as construction proceeds. Clean filter basins once sediment level reaches half capacity.
8. Seed and mulch denuded areas within thirty (30) days after finished grades are established, or if grading operations are to cease for more than thirty (30) days.
9. Maintain soil erosion control measures until permanent ground cover is established.
10. Request and obtain Final Approval by Town Environmental Inspector.
11. Remove soil erosion control measures and stabilize these areas.

Temporary Seeding

Winter and early Spring
Seeding dates: Dec. 1 to May 1
Rye (grain) at 120 lbs. per acre
Annual Lespedeza (Kobe) at 50 lbs. per acre
*Omit annual Lespedeza when duration of temporary cover is not to extend beyond June.

Summer
Seeding dates: May 1 to August 15
German Millet at 40 lbs. per acre
Sudangrass (small stemmed) at 50 lbs. per acre

Fall
Seeding dates: August 15 to December 30
Rye (grain) at 120 lbs. per acre

Soil Amendments
Follow soil tests or apply 2,000 lbs. per acre ground agricultural limestone and 750 lbs. per acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lbs. per acre wheat straw and anchor with asphalt tackling.

Maintenance: Fall
Referertilize if growth is not fully adequate. Reseed, referertilize, and mulch immediately following erosion or other damage.

Maintenance: Winter, Spring, Summer
Repair and referertilize damaged areas immediately. Topdress with 50 lbs. per acre Nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lbs. per acre Kobe Lespedeza in late February or early March.

Permanent Seeding

Seed Mix
50% Rebel Fescue
50% Falcon Fescue
Apply seed mix at 300 lbs. per acre

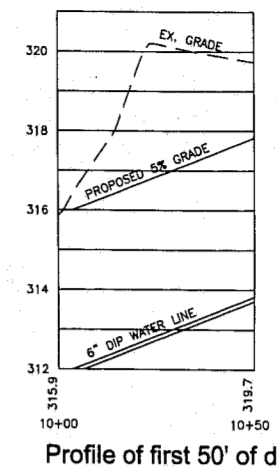
Seeding Dates
September 15 - October 15
or
February 15 - April 15

Soil Amendments
Follow soil tests or apply 4,000 lbs. per acre agricultural limestone and 1,000 lbs. per acre 10-10-10 fertilizer.

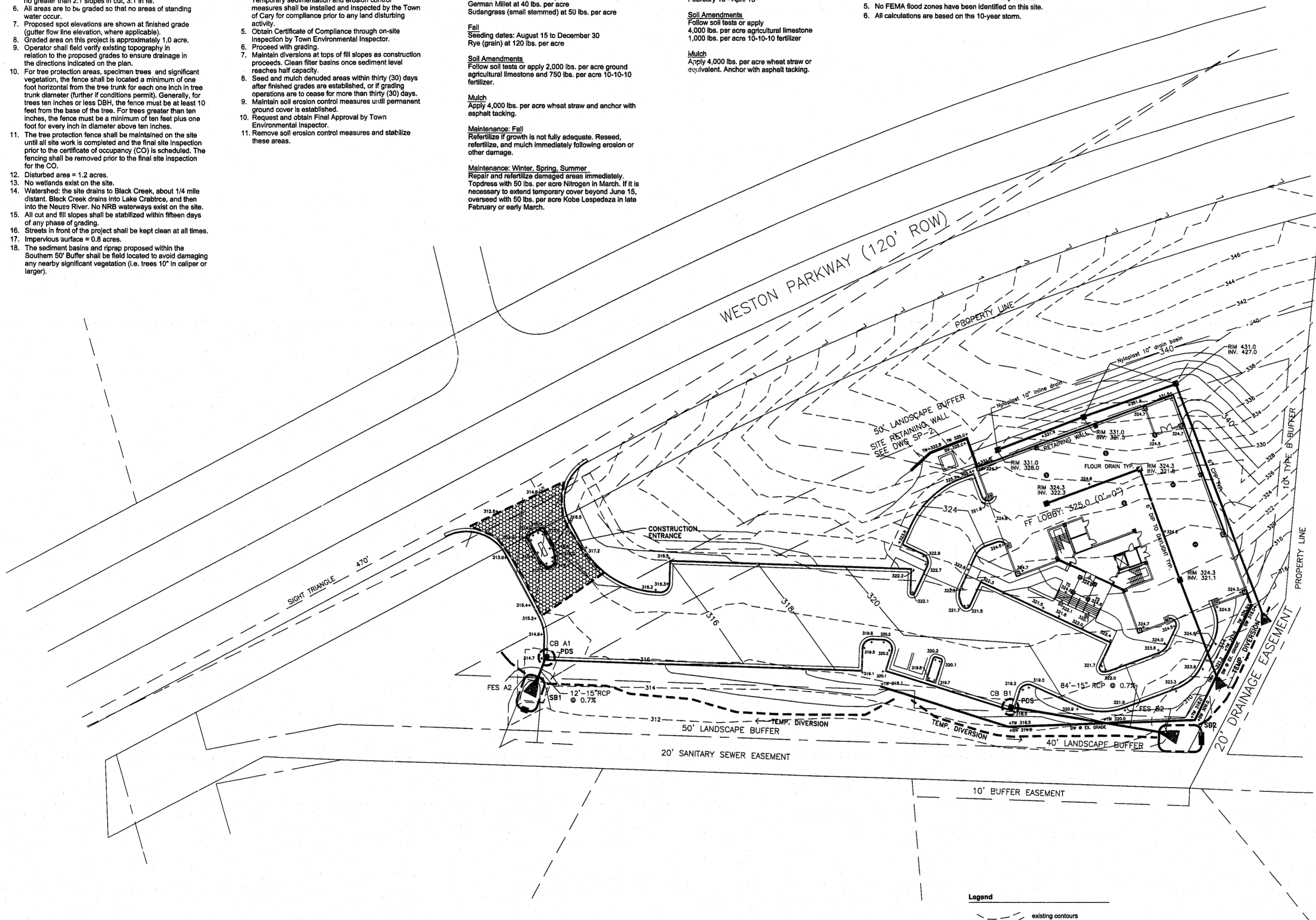
Mulch
Apply 4,000 lbs. per acre wheat straw or equivalent. Anchor with asphalt tackling.

General Notes

1. Additional erosion control devices may be required as agreed upon by Environmental Inspector, Landscape Architect, and Owner.
2. See Sedimentation and Erosion Control Details in this set of drawings.
3. All materials and construction methods shall be in accordance with Town of Cary Standards and Specifications.
4. Work is not in Watershed Protection Overlay District.
5. No FEMA flood zones have been identified on this site.
6. All calculations are based on the 10-year storm.



Profile of first 50' of drive



Temporary Filter Basins

Structure	denuded area (ac.)	sediment storage	+1' flood storage	total required dimensions in feet				weir length (ft.)	storage	extra storage
				length	width	depth	length (ft.)			
SB1	0.5	888	160	1,065	12	16	5	4	1,080	15
SB2	0.5	975	210	1,185	12	20	5	4	1,200	15

Disipators

Structure	pipe dia. (in.)	V	d50	stone class	thickness	beginning ending		length (ft.)
						width (ft.)	width (ft.)	
FES A2	15.0	4.98	6"	B	12"	3.75	7.25	6
FES B2	15.0	7.51	6"	B	12"	3.75	8.25	7
Floor Drain	8.0	-	3"	A	6"	1.5	5.5	5

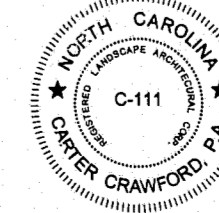
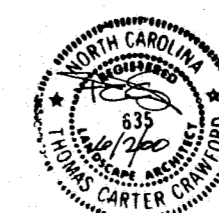
Storm Structures

Structure	RIM	INV. IN	FROM	INV. OUT	DEPTH	COVER
CB A1	314.20			309.80	4.40	3.02
FES A2	309.72	CB A1		309.62		
CB B1	318.00			310.00	8.00	6.63
FES B2	308.41	CB B1		308.31		

Legend

- - - - - existing contours
- — — — — proposed contours
- - - - - tree protection fence
- - - - - proposed storm drainage
- protected drainage structure
- - - - - temporary diversion ditch

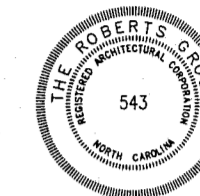
1 GRADING, DRAINAGE, AND EROSION CONTROL
SP-3 1"=30'-0"



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**WESTON
OFFICE
BUILDING**

Cary,
North Carolina

**GRADING,
DRAINAGE, AND
EROSION
CONTROL**

Revisions:
6-2-00 GRADE ELEV.

TOWN OF CARY
PROJECT NO. 00-SP-039

Project Number
185.01

Drawn By: KAJ
Checked By: JWS
Date: 03/17/00

Sheet Number

SP-3