

TEMPORARY SEEDING IN NORTH CAROLINA

Table with columns for SEEDING MIXTURE SPECIES, RATE (lb/acre), and SEEDING DATES. Lists species like RYE (GRAIN) and ANNUAL LESPEDEZA with corresponding rates and planting schedules for mountains, piedmont, and coastal plain regions.

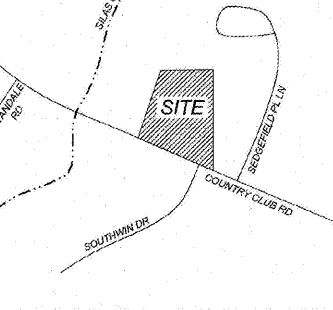
- SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS... FERTILIZER
MULCH: APPLY 2,000 LBS/ACRE STRAW... ANCHOR STRAW BY TACKLING WITH ASPHALT...
MAINTENANCE: REPERTELLIZE IF GROWTH IS NOT FULLY ADEQUATE...

FLOOD INFORMATION

SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE IT IS LOCATED IN ZONE "AE" AS DEFINED BY HUD F.I.R.M. COMMUNITY PANEL NUMBER 87068200A, WITH AN EFFECTIVE DATE OF JANUARY 3, 2009.

EROSION CONTROL CONSTRUCTION SEQUENCE

- 1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL AND PERMIT FROM THE CITY OF WINSTON-SALEM INSPECTIONS
2. CONTACT EROSION CONTROL INSPECTOR AND CITY OF WINSTON-SALEM STORMWATER ENGINEER TO ESTABLISH A PRE-CONSTRUCTION MEETING AND INSPECTION SCHEDULE...
3. CLEAR SITE ONLY AS NECESSARY TO INSTALL INITIAL EROSION CONTROL MEASURES AS FOLLOWS...
4. INSTALL TEMPORARY SEDIMENT SKIMMER BASIN AND DITCHES/DIVERSION DITCHES PERMITS TO SAID BASIN...
5. BEGIN SITE DEMOLITION. BEGIN CLEARING, GRUBBING, AND STRIPPING OF SITE AS REQUIRED...



MAINTENANCE NOTES: IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES...

CONSTRUCTION ENTRANCES: INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION...

SILT FENCE: INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE...

SILT FENCE GRAVEL OUTLET: INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN...

OUTLET STABILIZATION STRUCTURE: INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE... IF STONES HAVE BEEN DISLOGGED, IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

BLOCK AND GRAVEL INLET PROTECTION: INSTALL SILT FENCE GRAVEL OUTLETS AT ALL LOW POINTS IN FENCE. INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAIN...

DIVERSION DITCHES: INSPECT TEMPORARY DIVERSION DITCHES ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED... WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL...

SKIMMER BASIN: INSPECT SKIMMER BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) STORMFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE... FULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED...

REPAIR THE BAFFLES IF THEY ARE DAMAGED, RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLOG THE DEBRIS AND RESTORE FLOW...

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

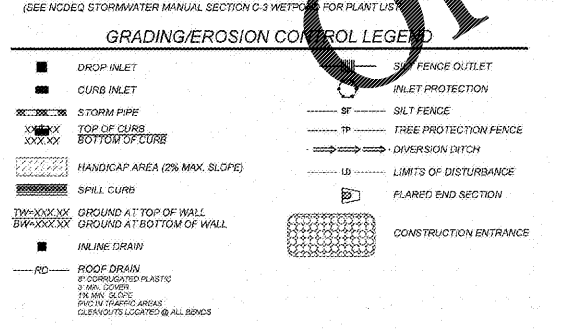
CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

VEGETATION: THE FOLLOWING CRITERIA APPLY TO VEGETATION IN AND AROUND THE WET POND:
1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF THE POND SHALL BE VEGETATED WITH NON-CLIMBING TURF GRASS, TREES AND WOODY SHRUBS SHALL NOT BE ALLOWED...

- 2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 90 PLANTS PER 200 SQUARE FEET OF SHELF AREA
3. THE WET POND DESIGN INCLUDES A LANDSCAPE PLAN (SEE SHEET C-6) THAT HAS BEEN PREPARED BY A QUALIFIED DESIGN PROFESSIONAL...
4. ON THE DAM AND THE DAM AND EMBANKMENT SLOPES, TURF GRASS PROVIDES STABILITY AND ENHANCES ACCESS TO THE FACILITY FOR MAINTENANCE...

- 5. TREES AND WOODY SHRUBS SHALL NOT BE PLANTED ON THE DAM OR EMBANKMENT SLOPES AND VOLUNTEERS SHOULD BE REMOVED AS PART OF REGULAR MAINTENANCE ACTIVITIES...
6. WETLAND SEED MIXES ARE NOT ALLOWED.
7. CONTRACTOR IS RESPONSIBLE TO COORDINATE INSTALLATION OF ALL PLANTING IN THE CITY OF WINSTON-SALEM. ALL PLANTING SIZE AND VARIETY SHALL MEET NCEM AND CITY OF WINSTON-SALEM AND SPECIFICATIONS (SEE NCEM STORMWATER MANUAL, SECTION C-3 WEEDS FOR PLANT LIST).



PROVIDE 7-DAY GROUND STABILIZATION FOR TEMPORARY DIVERSION DITCHES AND INTERIOR SLOPES OF SKIMMER BASINS.

Table with 2 columns: Skimmer Basin ID and SB 1. Rows include dimensions such as Bottom length (72.0 ft), Bottom width (32.0 ft), Sediment depth (3.5 ft), Freeboard (1.5 ft), Depth to crest of spillway (4.0 ft), Side slopes (2.0 H:1 V), Spillway length (15.0 ft), Height of berm (5.0 ft), Top of trap length (80.0 ft), Top of trap width (40.0 ft), Storage volume req'd (3,852 cu. ft.), Storage volume prov'd (5,483 cu. ft.), Sediment surface area req'd (2,846 sq. ft.), Sediment surface area prov'd (3,200 sq. ft.), Baffle Spacing (40 ft), and Skimmer Size/Orifice Size (1.5 ft/1.25 in).

- TREE AREA SAVE NOTES:
1. TREE PROTECTION DURING CONSTRUCTION TO RECEIVE CREDIT FOR EXISTING TREES PROPOSED FOR PRESERVATION...
A. THE TREE SAVE AREA (TSA) SHALL INCLUDE ALL AREA LOCATED WITHIN THE CRITICAL ROOT ZONE.
B. CONSTRUCTION SITE ACTIVITIES, SUCH AS PARKING, MATERIAL STORAGE, DIRT STOCKPILING, CONCRETE WASHOUT, AND OTHER SIMILAR ACTIVITIES SHALL NOT BE PERMITTED WITHIN A TREE SAVE AREA (TSA).
C. PROTECTIVE BARRIERS SHALL BE INSTALLED AROUND THE TREE SAVE AREA (TSA) AS NECESSARY PRIOR TO THE ISSUANCE OF A GRADING PERMIT.



STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC. SEED AND MULCH DENuded AREAS WITHIN 14 DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR INACTIVITY UNLESS SHORTER TIMELINE IS SPECIFIED ON CHART.

NOTE: THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PAD AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.

GROUND STABILIZATION CRITERIA: SEE SHEET C-3 (POLES STABILIZATION PLAN)
9. CONTINUE TO MAINTAIN EROSION CONTROL MEASURES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED OVER ALL DISTURBED AREAS AND SITE HAS BEEN STABILIZED. REMOVE EROSION CONTROL MEASURES ONLY AFTER FINAL INSPECTION AND APPROVAL BY INSPECTOR.
10. CONVERT TEMPORARY SEDIMENT SKIMMER BASIN TO PERMANENT WET DETENTION POND ONLY AFTER ALL UPSTREAM CONTRIBUTING AREAS HAVE BEEN STABILIZED AND APPROVED BY EROSION CONTROL INSPECTOR. SEE SHEET C-9 FOR DETAILED CONVERSION SPECIFICATIONS AND SEQUENCING.

11. ONCE THE PERMANENT WET DETENTION POND IS IN PLACE AND OPERATING (INCLUDING HAVING ALL PLANTINGS IN PLACE PER THE APPROVED LANDSCAPE PLAN AND SURROUNDING AREAS STABILIZED), THE ENGINEER OF RECORD MUST BE CONTACTED TO PREPARE SEALED AS-BUILT PLANS AND RECORDS OF THE SYSTEM THAT CERTIFY THAT IT IS BUILT AND FUNCTIONING IN ACCORDANCE WITH THE APPROVED AND PERMITTED STORMWATER MANAGEMENT DESIGN AND SUBMIT THEM TO THE CITY OF WINSTON-SALEM STORMWATER ENGINEER. UPON RECEIPT THE STORMWATER ENGINEER WILL CONDUCT A SITE INSPECTION TO ENSURE THE SUBMITTED AS-BUILT RECORDS ARE ACCURATE AND THAT THE POND IS INDEED FUNCTIONING AS DESIGNED.
NOTE: THIS ITEM SHOULD BE COMPLETED BEFORE THE CONTRACTOR FULLY DEMOLIBIZES FROM THE SITE SO THAT IF THERE ARE ANY DEFICIENCIES NOTED BY THE STORMWATER ENGINEER THEY CAN BE ADDRESSED BY HIM PROMPTLY.

EROSION CONTROL MAINTENANCE PLAN:
4. INSPECT ALL SEDIMENTATION AND EROSION CONTROL DEVICES FOR STABILITY AND FUNCTION EACH WEEK AND FOLLOWING EACH RAINFALL EVENT.
5. REMOVE SILT/SEDIMENT FROM TEMPORARY DEVICES WHEN ACCUMULATED VOLUME HAS REACHED 50% CAPACITY.
6. REMOVE ACCUMULATED SILT/SEDIMENT FROM BEHIND TEMPORARY SEDIMENT FENCE AND SILT FENCE OUTLET WHEN DEPTH EXCEEDS APPROXIMATELY 0.5 FEET. REPAIR AND REPLACE SILT FENCE AND SILT FENCE OUTLET AS NECESSARY.
7. CONTRACTOR SHALL APPPOINT AN ON-SITE INSPECTOR AND MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL NOTES STORMWATER DISCHARGES PERMIT FOR CONSTRUCTION ACTIVITIES.

GRADING AND EROSION CONTROL NOTES

- 1. ALL GRADING BACKFILLING, EXCAVATION, ETC. SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.
2. CONTRACTOR IS TO CONTACT MISS UTILITY OF VIRGINIA AT 1-800-552-7001 FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO ANY DIGGING.
3. THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.
4. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
5. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
6. ALL FAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
7. CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
8. PURSUANT TO G.S. 113A-57(b), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH PERMANENT OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(c), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
9. ALL CUT AND FILL SLOPES AND CHANNEL SIDE SLOPES WHICH ARE NOT TO BE FAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH RECOMMENDATIONS TO BE SEEDING:
A. 100 LBS PER 1,000 SQUARE FOOT ORLAND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
B. 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQUARE FOOT.
C. VARIETIES TO BE SEEDING:
1. SPRING SEEDING - MARCH 1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.
2. SUMMER SEEDING - MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 0.2 PER SQUARE FOOT MIXED WITH 1 BUSH/FT OF SANDUST FOR UNIFORM SEEDING.
3. ASPHALT MULCH @ 8 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
10. SEE LANDSCAPE PLAN FOR PERMANENT SEEDING.
11. UNLESS OTHERWISE SPECIFIED ON THESE PLANS, ALL STORM DRAINAGE PIPES ARE TO BE RCP CLASS III.

Table with columns: REVISE NO., DATE, DESCRIPTION. Shows revision history with entries for city comments and date updates.



CLIENT: GEMCAP DEVELOPMENT, 210 WEST FOURTH STREET, SUITE 200, WINSTON-SALEM, NC 27101

RETAIL DEVELOPMENT 4809 COUNTRY CLUB ROAD, WINSTON-SALEM, NORTH CAROLINA. EROSION CONTROL - PHASE 1

Table with project details: PROJECT NO. GEM-1808, FILENAME: GEM1808-EC1, DRAWN BY: RCN, SCALE: 1" = 30', DATE: 01-17-19, SHEET NO. C-36.

