

**Subject:** C&D Landfill  
**From:** "John AK Tucker PE" <johnak@johntuckerpe.com>  
**Date:** Sat, 6 Dec 2008 08:43:36 -0500  
**To:** "David Garrett" <david@davidgarrettpe.com>, "Donna Wilson" <Donna.Wilson@ncmail.net>

I finally have the recombination map.

Goto: <http://cdlandfill.johntuckerpe.com> to view/download.

Thanks

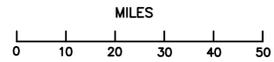
JT

**John A.K. Tucker, PE**  
**Consulting Engineer**  
**PO Box 297**  
**Fuquay Varina, NC 27526**

**Voice**           **919 567 0483**

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# County Boundary Status



**John A. K. Tucker, P.E.**  
 Consulting Engineer  
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**C & D LANDFILL, INC.**  
 802 Recycling Lane  
 Greenville, NC 27834

**C&D LANDFILL  
 FRANCHISE MAP**

NO.	REVISIONS



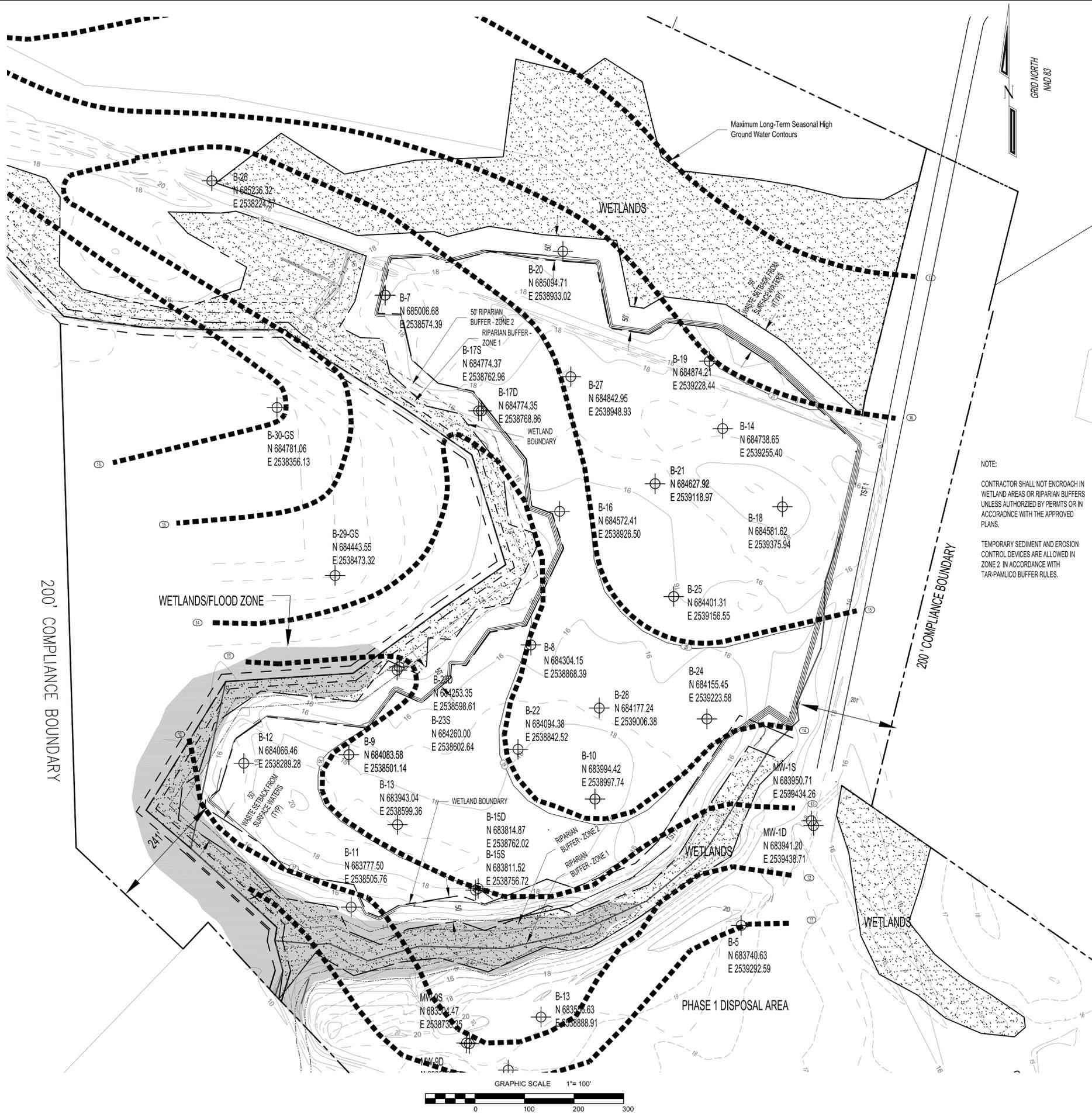
February 18, 2008

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**C & D LANDFILL, INC.**  
802 Recycling Lane  
Greenville, NC 27834

**C&D LANDFILL - PHASE 2**  
**PERMIT TO CONSTRUCT**  
**BASE GRADE CONTOURS**

NO.	REVISION/DESCRIPTION	DATE
1	REVISED PER DOW COMMENTS	10/26/08



GRID NORTH  
NAD 83

NOTE:  
CONTRACTOR SHALL NOT ENCOACH IN WETLAND AREAS OR RIPARIAN BUFFERS UNLESS AUTHORIZED BY PERMITS OR IN ACCORDANCE WITH THE APPROVED PLANS.  
TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE ALLOWED IN ZONE 2 IN ACCORDANCE WITH TAR-PAMLICO BUFFER RULES.

LEGEND

EXIST GROUND	
GROUND WATER	
PROPOSED GRADE	
DIVERSION BERM	
SILT FENCE	
WETLANDS	
FLOOD ZONE	
RIPARIAN BUFFER	





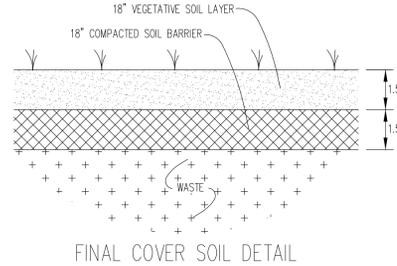
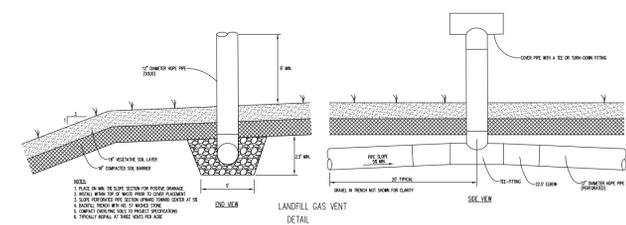
February 18, 2008

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**C & D LANDFILL, INC.**  
802 Recycling Lane  
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**C&D LANDFILL - PHASE 2**  
**PERMIT TO CONSTRUCT**  
**FINAL COVER CONTOURS**

NO.	REVISION/COMMENT	DATE
1.	REVISED PER DOW COMMENTS	11-26-08



LEGEND

EXIST GROUND	18
GROUND WATER	18
PROPOSED GRADE	18
DIVERSION BERM	<<<
SILT FENCE	X
WETLANDS	[Stippled pattern]
FLOOD ZONE	[Shaded area]

GENERAL NOTES:

- Boundary, topographic and wetland information take from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900
- All work shall be in accordance with applicable Federal, State and Local regulations.
- Contractor shall at all times maintain adequate safety measures, activities, and barricades, for the protection of all persons on or about the site.  
ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH DIVISION OF THE NC DEPARTMENT OF LABOR.

Contractor shall be responsible for the design of adequate shoring and bracing in all trenches and excavations that are a part of the construction operations of this project.  
Contractor shall be responsible for installation and maintenance of adequate shoring and bracing, and the protection of all persons and property on or about the site.





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802 Recycling Lane  
Greenville, NC 27834

**C&D LANDFILL - PHASE 2**  
**PERMIT TO CONSTRUCT**  
**PHASE 2A - GRADING PLAN**

NO.	REVISION COMMENTS	DATE
1.		1/26/08



PHASE 2A PROGRESSION

YEAR 1 CELL 1  
 YEAR 2 CELL 2  
 YEAR 3 CELL 3  
 YEAR 4 CELL 4  
 YEAR 5 CELL 5

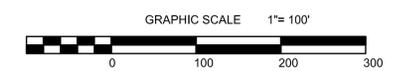
LEGEND

EXIST GROUND	18
GROUND WATER	18
PROPOSED GRADE	18
DIVERSION BERM	<<<
SILT FENCE	X
WETLANDS	[Stippled Box]
FLOOD ZONE	[Solid Grey Box]

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**C & D LANDFILL, INC.**  
802 Recycling Lane  
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**C&D Landfill - Phase 2**  
**PERMIT TO CONSTRUCT**  
**SEDIMENTATION & EROSION CONTROL**

100483	REVISIONS
1.	REVISED PER DOW COMMENTS

PITT COUNTY CONSTRUCTION SEQUENCE

1. Obtain a land-disturbing permit. Schedule a pre-construction conference with the Environmental Engineer
2. Locate and flag all adjoining wetlands and riparian buffers. Contractor assume all responsibility for any unauthorized encroachment into these areas.
3. Install gravel construction pad, permanent diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clean only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
4. Call Pitt County for an onsite inspections by the Environmental Engineer to obtain a Certificate of Compliance.
5. Begin clearing and grubbing. Maintain devices as needed.
6. Begin bringing site to grade.
7. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and much denuded areas within fifteen (15) days of completion of any phase of construction.
8. When construction is complete and all areas are stabilized completely, call Pitt County for an inspection by the Environmental Engineer.
9. If site is approved, remove temporary diversions, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, should now be installed. Sediment basins removed only with approval of Pitt County.
10. When vegetation has established, call Pitt County for a final site inspection by the Environmental Engineer. Obtain a Certificate of Completion.

SEEDING SCHEDULE  
(REVISED: 1-1-86)

DATE	TYPE	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	25 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue and ***Browntop Millet	120 lbs/acre
	***or Sorghum-Sudan Hybrids	35 lbs/acre
	***Browntop Millet	30 lbs/acre
	***or Sorghum-Sudan Hybrids	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre
	Sericea Lespedeza (scarified) & Add Tall Fescue	50 lbs/acre
Mar 1 - Jun 1		
Mar 1 - Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1 - Jun 30	Or Add Weeping Lovegrass	10 lbs/acre
Mar 1 - Jun 30	Or Add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sep 1	***Tall Fescue and ***Browntop Millet	120 lbs/acre
	***or Sorghum-Sudan Hybrids	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre
Sep 1 - Mar 1	Sericea Lespedeza (unhulled-unscaified) and Tall Fescue	70 lbs/acre
(Nov 1 - Mar 1)	Add Abruzzi Rye	25 lbs/acre

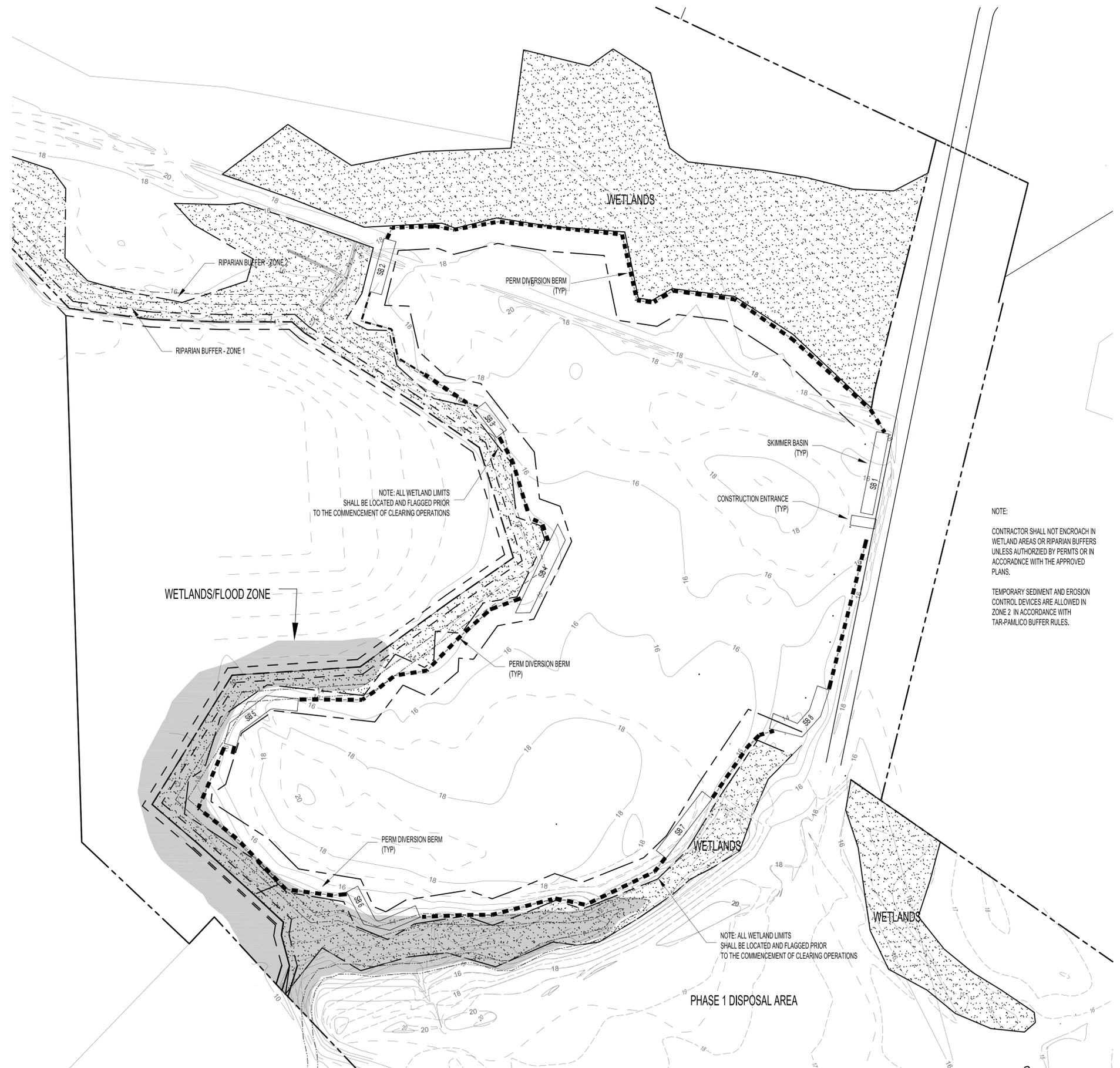
Consult Conservation Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.  
\*\*\*Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.

SEEDBED PREPARATION

- 1.) CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2.) RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- 3.) REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. SUPERPHOSPHATE
- 4.) APPLY AGRICULTURAL LIME, FERTILIZER, AND UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- 5.) CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM INCHES REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 DEEP.
- 6.) SEED ON A FRESHLY PREPARED SEEDBED AND COVER AFTER SEEDING. SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK.
- 7.) MULCH WITH STRAW (1-2 TNS PER AC) IMMEDIATELY AFTER SEEDING. ANCHOR MULCH WITH ASPHALT. APPLY ASPHALT AT 10 GAL PER 1000 SQUARE FEET. HEAVIER APPLICATIONS CAUSE STRAW TO "PERCH" OVER RILLS.
- 8.) INSPECT ALL SEEDED AREAS AND MAKE NECESSARY RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. FOLLOWING STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 9.) CONSULT CONSERVATION INSPECTOR ON MAINTENANCE ESTABLISHED.

TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS  
\* APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ ACRES (3 TONS/ ACRE IN CLAY SOILS)  
FERTILIZER - 1,000 lbs. / ACRE -10-10-10  
SUPERPHOSPHATE- 500 lbs> / ACRE -20%ANALYSIS

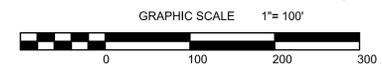
GRID NORTH  
MAD 83



NOTE:  
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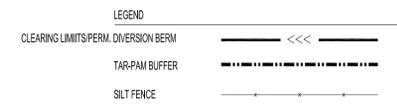
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NOTE: ALL WETLAND LIMITS SHALL BE LOCATED AND FLAGGED PRIOR TO THE COMMENCEMENT OF CLEARING OPERATIONS



C&D Landfill Phase 2  
Skimmer Basin Design

Basin Number	DA	Peak Q - 10 yr	Top Width	Top Length	Side Slope	Depth	Bottom Width	Bottom Length	Bottom Area	Actual Volume	Actual Area	Trial Weir Length
	(ac)	(cfs)	(ft)	(ft)	(z:1)	(ft)	(ft)	(ft)	(sf)	(cf)	(sf)	(ft)
1	3.15	8.3	25	130	2.5	2.5	120	1800	5224	3250	10	
2	2.01	5.4	25	110	2	2.5	15	100	1500	5234	2750	6
3	1.36	4	25	110	2	2.5	15	100	1500	5234	2750	6
4	3.34	8.8	25	130	2	2.5	15	120	1800	5224	3250	10
5	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
6	2.81	8.3	25	110	2	2.5	15	100	1500	5234	2750	10
7	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
8	2.96	7	25	110	2	2.5	15	100	1500	5234	2750	10







NOTE:

IMAGE TAKEN FROM AERIAL PHOTOGRAPH OBTAINED FROM THE NORTH CAROLINA FLOOD MAPPING PROGRAM, CIRCA 2000  
 FIELD VERIFIED BY DAVID GARRETT, P.G., P.E. - 12/12/2000  
 UPDATED BY JOHN A.K. TUCKER, P.E. - 05/15/2003

LEGEND

EXIST GROUND	
PROPOSED GRADE	
GROUND WATER	
WETLANDS	
FLOOD ZONE	
BORING - SEASONAL HIGH WATER ELEVATION	B-18 15.40
BORING COORDINATES	B-18 N 5000 E 5000

GENERAL NOTES:

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**C&D LANDFILL - PHASE 2**  
**PERMIT TO CONSTRUCT**  
**LOCAL AREA PHOTO & FACILITY PLAN**

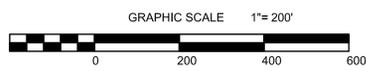
NO.	REVISION/PERM COMMENT	DATE
1.	REVISED PERM COMMENT	10-29-08



LEGEND

EXIST GROUND	18
GROUND WATER	18
PROPOSED GRADE	18
DIVERSION BERM	<<<
SILT FENCE	X
WETLANDS	[Stippled pattern]
FLOOD ZONE	[Solid grey]

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NO.	REVISION/DESCRIPTION	DATE	BY
1	Cross Section Line added	3-11-08	REVISIONS
2	REUSED PER DSW COMMENTS	05-26-08	