

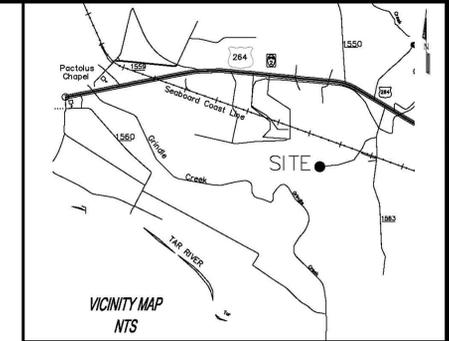
C&D Landfill, Inc.

C&D Landfill - Phase 2

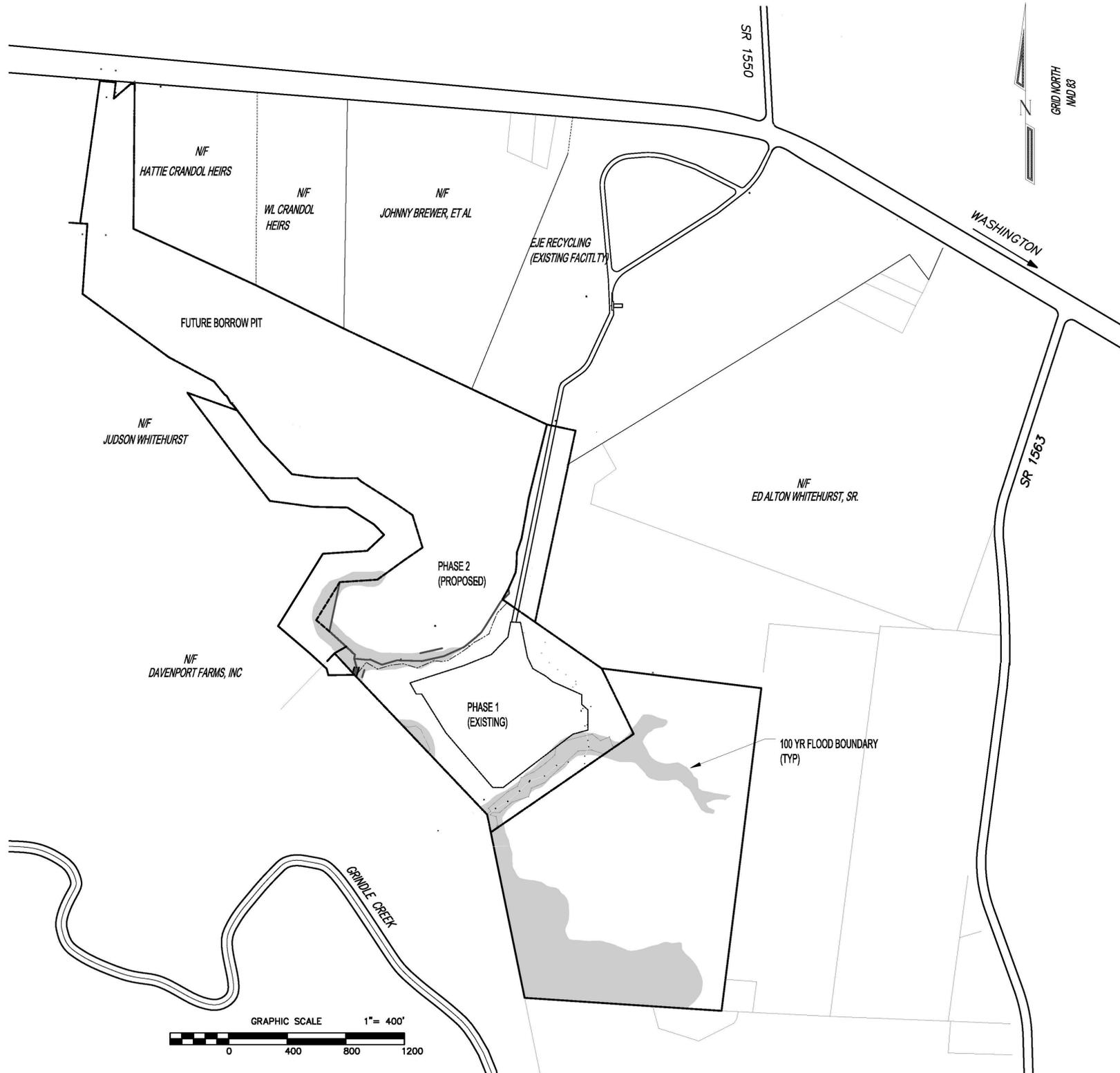
Pitt County, North Carolina

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G. David Garrett, PG, PE
February 23, 2014



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Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3811
Email: johnak@johnakpe.com



OWNER - DEVELOPER

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

VOICE (252) 752-8274
FAX (252) 752-9016

ENGINEER:

JOHN A.K. TUCKER, PE
CONSULTING ENGINEER
PO BOX 297
FUQUAY VARINA, NC 27526

VOICE (919) 567-0483
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Scanned By	Date	DOC ID	Permit
Backus	05/13/2014	21005	7407-CDLF-2009

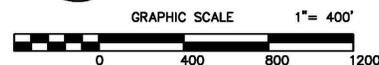
GENERAL NOTES:

- Boundary, topographic and wetland information take from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900
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LEGEND

EXIST GROUND	— 18 —
SEASONAL HIGH GROUND WATER	— 18 —
PROPOSED GRADE	— 18 —
DIVERSION BERM (DIRECTION OF FLOW)	— <<< —
SILT FENCE	— X —
WETLANDS	▨
FLOOD ZONE	■



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

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
COVERSHEET

COVER	REVISIONS
-------	-----------

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February 23, 2014



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
REGIONAL CHARACTERIZATION MAP



POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION

- ① GAS STATION – US 264 & NC 30
- ② LUMBER DRYING YARD
- ③ SOLID WASTE CONVENIENCE CENTER – SECOND ST. (PACTOLUS)
- ④ AUTO WRECKING YARD – US 264
- ⑤ AUTO WRECKING YARD – GRIMESLAND BRIDGE RD
- ⑥ WELDING SHOP – US 264

POTENTIAL SIGNIFICANT GROUNDWATER USER

- ⑥ NATIONAL SPINNING (DISTRIBUTION CENTER) SHEPPARD MILL RD (FACILITY CLOSED)

UTILITY DATA FROM STOKES REGIONAL WATER COMPANY SERVICE MAP
WATER WELL SURVEY CONDUCTED 12/12/2000 – DAVID GARRETT, P.G., P.E.
UPDATED 05/21/2003 – JOHN A.K. TUCKER, P.E.

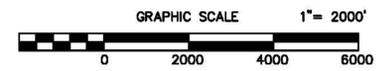
MAP TAKEN FROM PORTIONS OF USGS 7.5 MIN QUADRANGLE MAPS:
LEGGETS CROSSROADS
GRIMESLAND

LEGEND

EXIST GROUND	— 18 —
SEASONAL HIGH GROUND WATER	— 18 —
PROPOSED GRADE	— 18 —
DIVERSION BERM (DIRECTION OF FLOW)	— <<< —
SILT FENCE	— X —
WETLANDS	[Pattern]
FLOOD ZONE	[Shaded Box]

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NO.	DATE	REVISIONS



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G. David Garrett, PG, PE
February 23, 2014



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
- SEASONAL HIGH GROUND
- WATER
- PROPOSED GRADE
- DIVERSION BERM (DIRECTION OF FLOW)
- SILT FENCE
- WETLANDS
- FLOOD ZONE

GENERAL NOTES:

1. Boundary, topographic and wetland information taken from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-738-4900
2. All work shall be in accordance with applicable Federal, State and Local regulations.
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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
LOCAL AREA PHOTO & FACILITY PLAN**

NO.	REVISION COMMENTS	DATE
1.	REVISED PER DISCUSSIONS	10/26/08
2.	REVISED PER DISCUSSIONS	08/16/08



David Garrett, P.G., P.E.
 Engineering and Geology
 1408 Rock Drive, Raleigh, North Carolina 27610 Telephone/Fax (919) 231-1818

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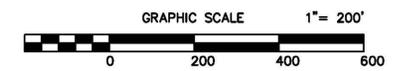
G. David Garrett, PG, PE
 February 23, 2014



LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPOSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	X
WETLANDS	[Stippled pattern]
FLOOD ZONE	[Grey shaded area]

- GENERAL NOTES:
- Boundary, topographic and wetland information taken from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-6900.
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C & D LANDFILL, INC.
 802 Recycling Lane
 Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
SITE BOUNDARY & TEST BORINGS

NO.	DESCRIPTION	DATE	BY
1	BOUNDARY PRINTED	02-24-09	
2	REISSUED PER NEW COMMENTS	10-28-09	
1	Cross Section Line added	3-11-08	



February 18, 2008

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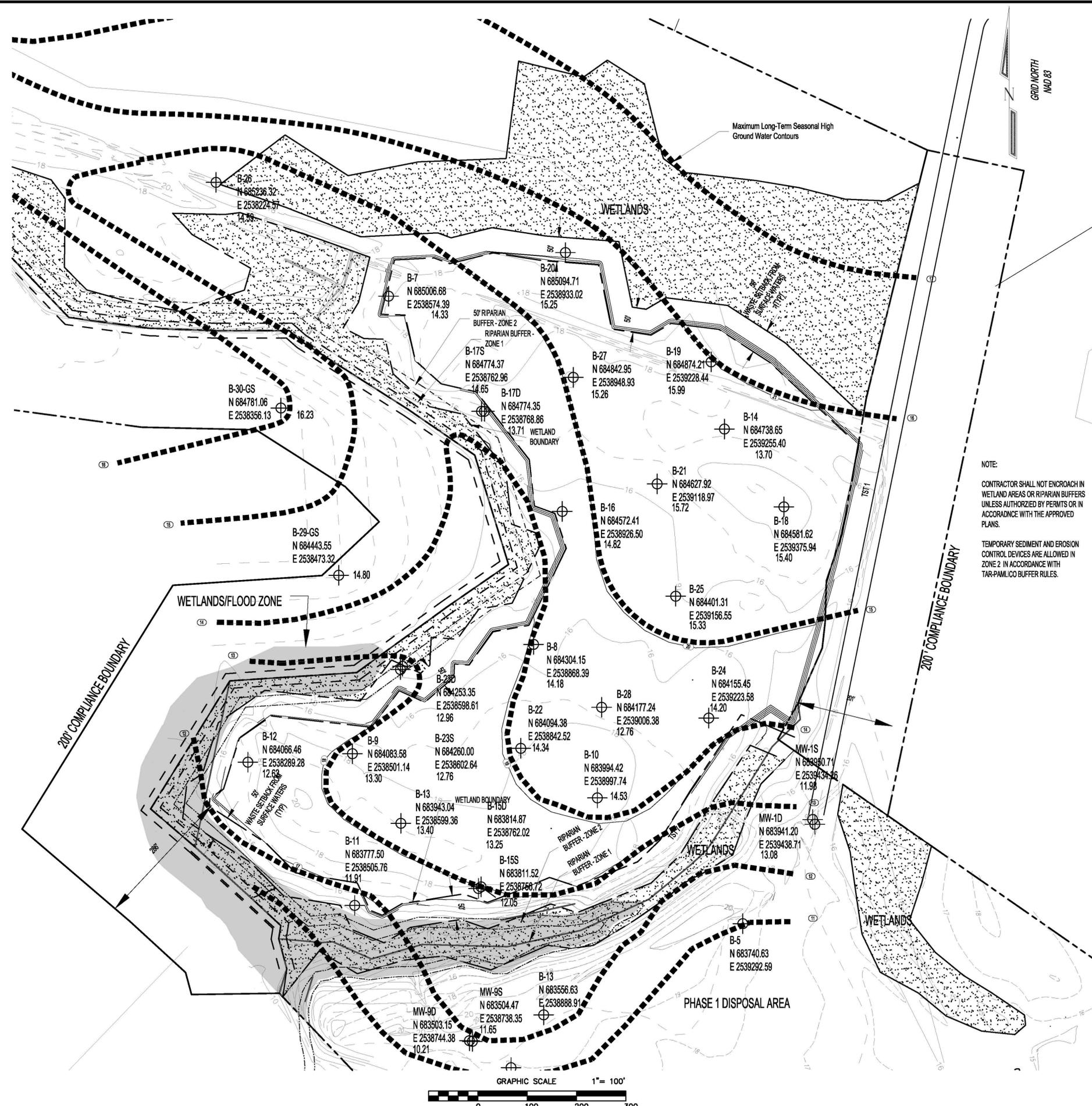
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

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

NO.	REVISIONS	DATE
1.	BOUNDARY PRINTED	02-24-08
2.	REVISED PER DSH COMMENTS	02-18-08
3.	REVISED PER DSH COMMENTS	10-09-08

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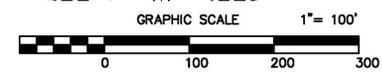
G. David Garrett, PG, PE
February 23, 2014



NOTE:
CONTRACTOR SHALL NOT ENCRoACH 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

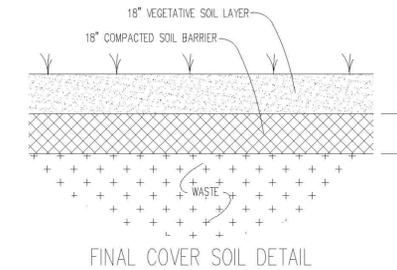
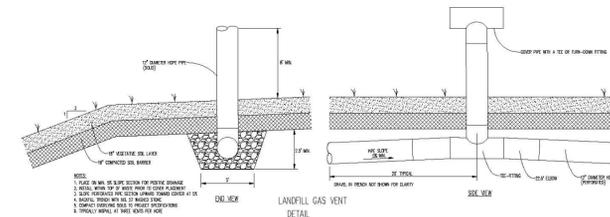
EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPOSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	X
WETLANDS	[Stippled Box]
FLOOD ZONE	[Gray Box]





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G. David Garrett, PG, PE
February 23, 2014



LEGEND

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

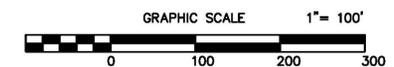
GENERAL NOTES:

1. Boundary, topographic and wetland information taken from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900

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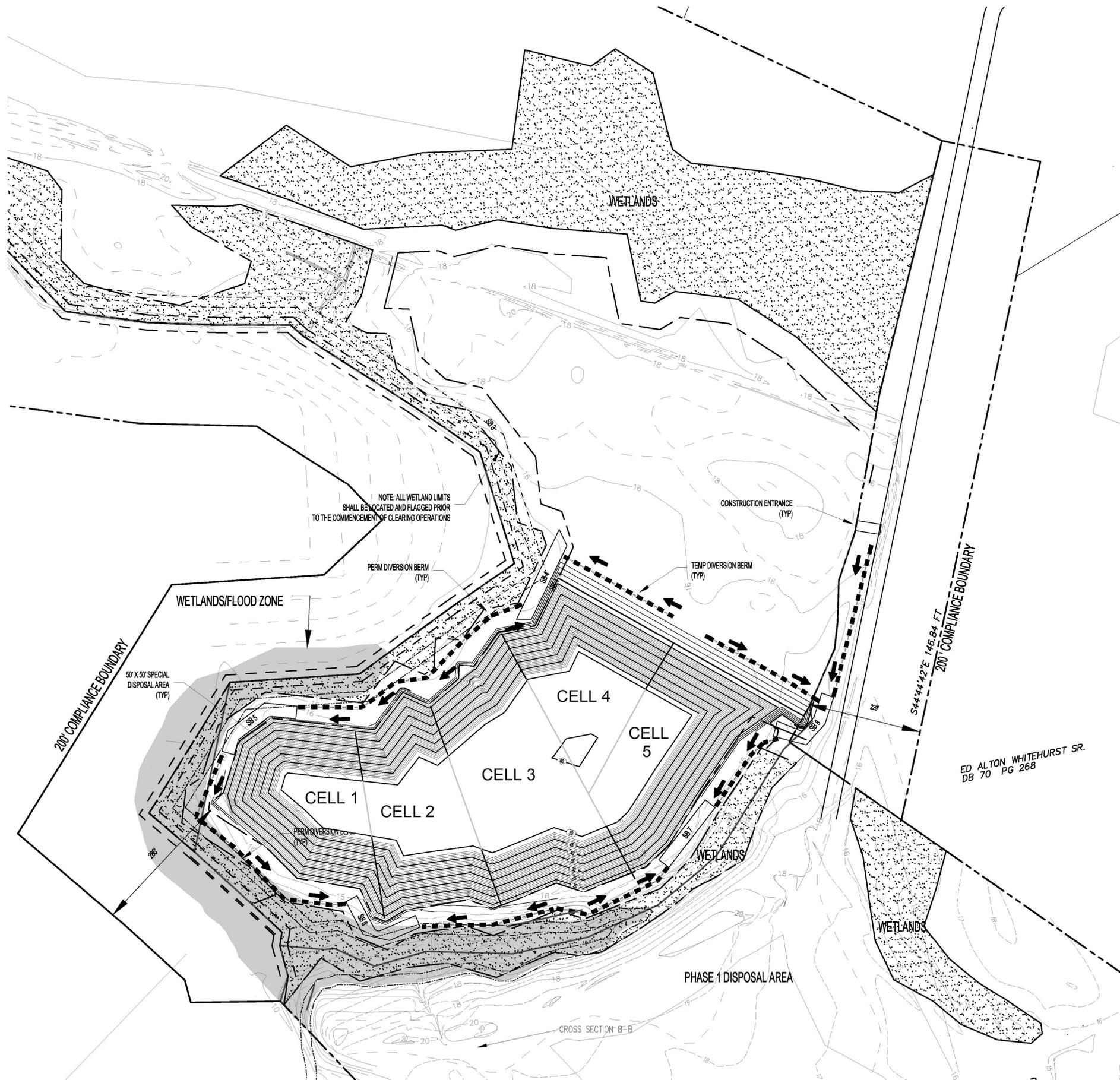


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C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
FINAL COVER CONTOURS

4.	STORM WATER FLOW DIRECTION ADDED	04-30-09	
3.	BOUNDARY UPDATED	03-24-09	
2.	REVISED PERISH COMMENTS	02-18-09	
1.	REVISED PERISH COMMENTS	11-09-08	



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G. David Garrett, PG, PE
February 23, 2014



INTERIM CONTOURS SHOWN FOR PHASE 2A
GRADE UPPER SURFACES AT 2% TO 5%

PROTECT SLOPES BELOW EL. 50 BY INSTALLING
APPROVED SED & EROSION CONTROL MEASURES

PHASE 2A PROGRESSION

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

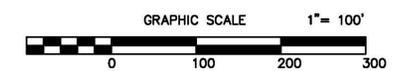


LEGEND

- EXIST GROUND 18
- SEASONAL HIGH GROUND WATER 18
- PROPOSED GRADE 18
- DIVERSION BERM <<<
- SILT FENCE X
- WETLANDS [stippled pattern]
- FLOOD ZONE [shaded gray]
- STORM WATER FLOW →

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

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

NO.	DATE	REVISIONS
4.	04-30-09	STORM WATER FLOW DIRECTION ADDED
3.	03-24-09	BOUNDARY UPDATED
2.	02-18-09	REVISED PER CON COMMENTS
1.	11-09-08	REVISED PER CON COMMENTS



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February 23, 2014



INTERIM CONTOURS SHOWN FOR PHASE 2A AND 2B GRADE UPPER SURFACES AT 2% TO 5%

PROTECT SLOPES BELOW EL. 50 BY INSTALLING APPROVED SED & EROSION CONTROL MEASURES

PHASE 2B PROGRESSION

- YEAR 6 CELL 6
- YEAR 7 CELL 7
- YEAR 8 CELL 8
- YEAR 9 CELL 9
- YEAR 10 CELL 10



CELLS 11 - 15 (PHASE 2C) ARE ABOVE CELLS 1 - 10

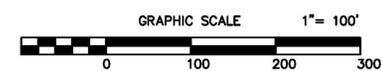
LEGEND

- EXIST GROUND ——— 18
- SEASONAL HIGH GROUND WATER ——— 18 ———
- PROPOSED GRADE ——— 18 ———
- DIVERSION BERM ——— <<< ———
- SILT FENCE ——— X ———
- WETLANDS [stippled pattern]
- FLOOD ZONE [shaded gray]
- STORM WATER FLOW ———> ———

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802 Recycling Lane
Greenville, NC 27834

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

NO.	DATE	DESCRIPTION
1.	04-30-09	STORM WATER FLOW DIRECTION ADDED
2.	03-24-09	BOUNDARY UPDATED
3.	02-18-09	REVISED PER DSW COMMENTS
4.	11-09-08	REVISED PER DSW COMMENTS WATER FLOW DIRECTION ADDED

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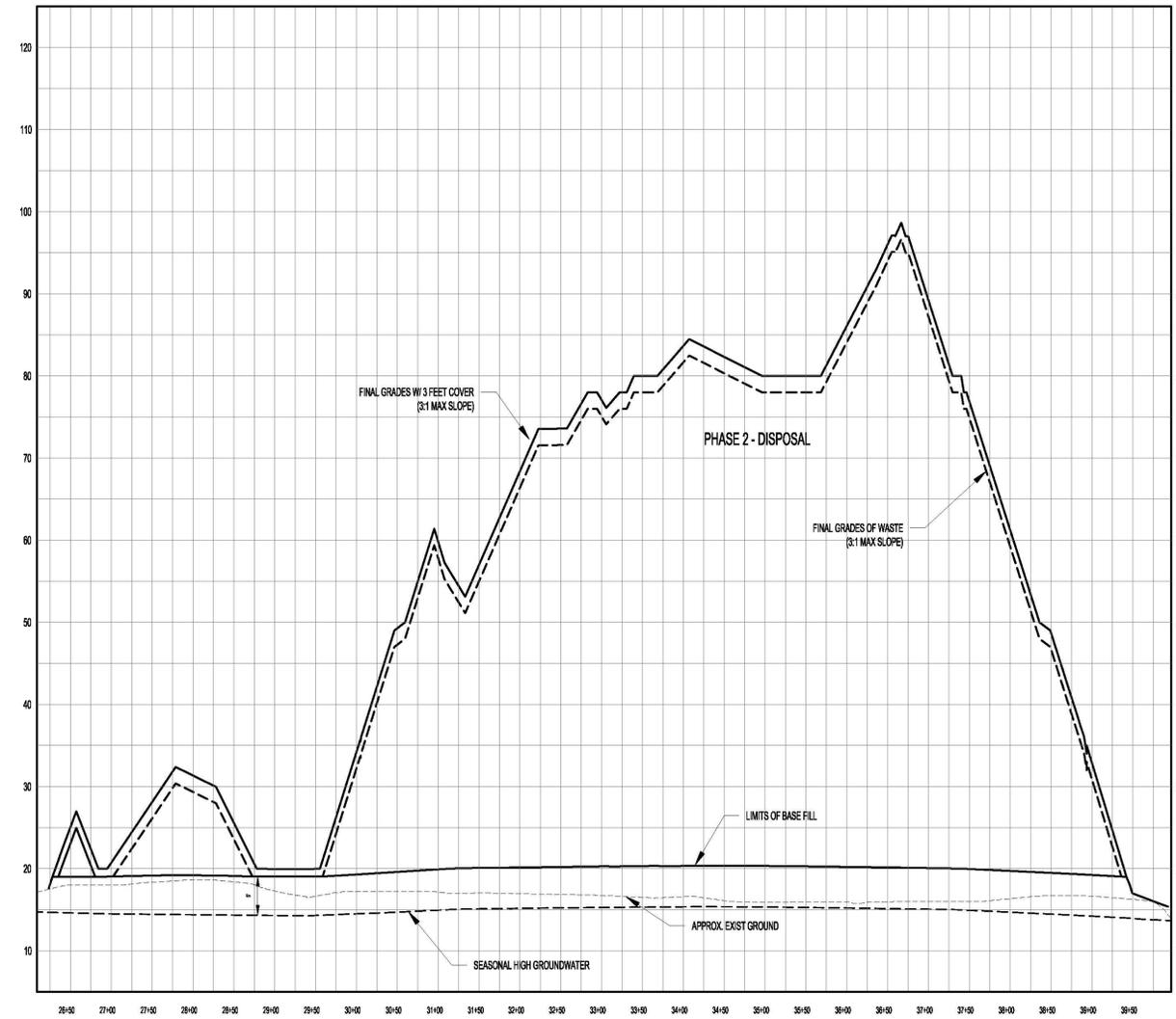


February 18, 2008

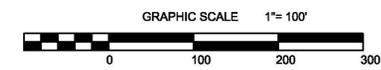
John A. K. Tucker, P.E.
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(919) 567-0483 Fax (919) 567-3811
Email: johntk@johntkpe.com

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

**C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
CROSS SECTIONS A-A**



PROFILE - SECTION A-A
SCALE 1" = 100' H
1" = 10' V



**PRELIMINARY
NOT FOR
CONSTRUCTION**

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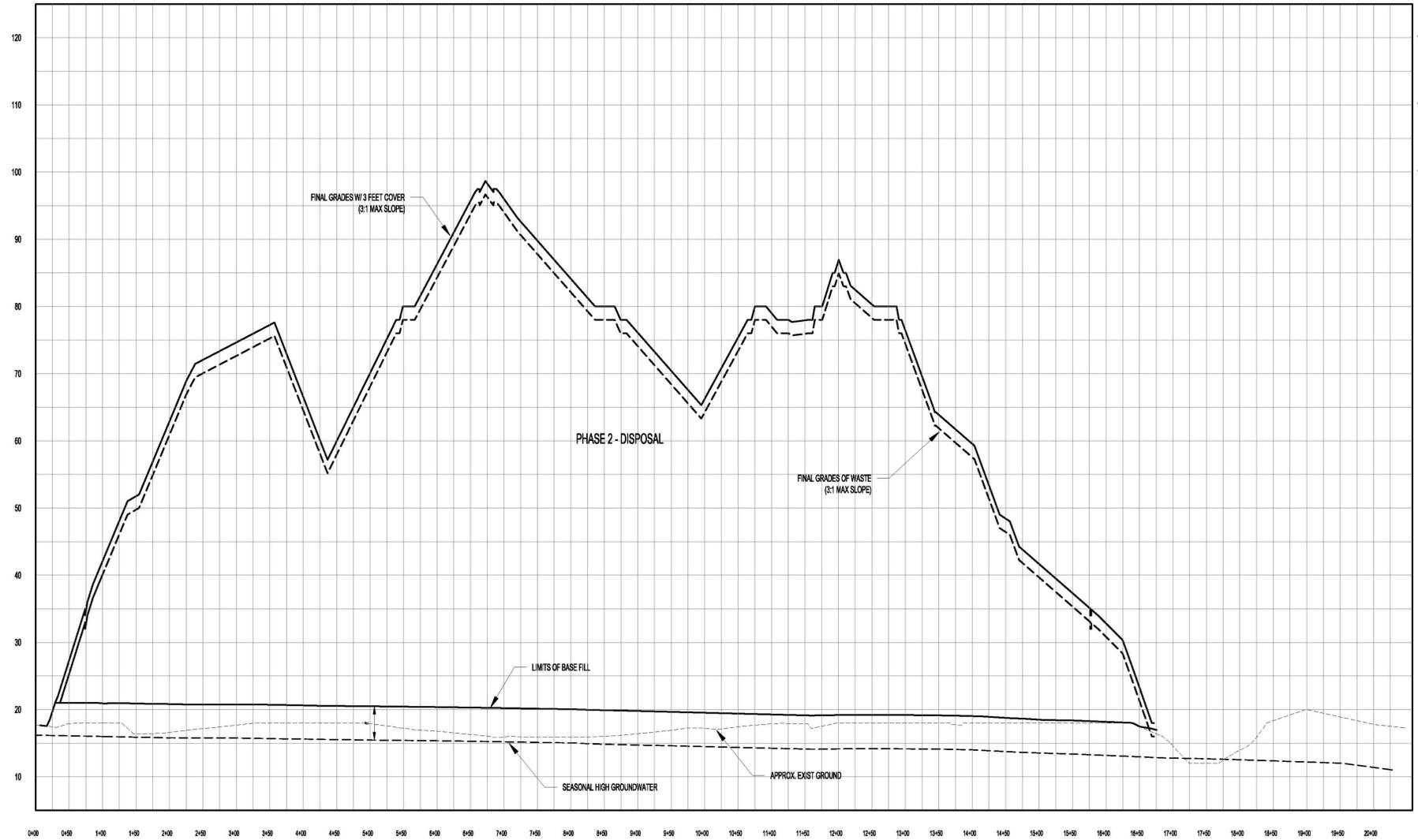


February 18, 2008

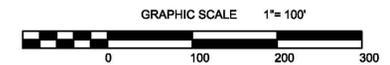
John A. K. Tucker, P.E.
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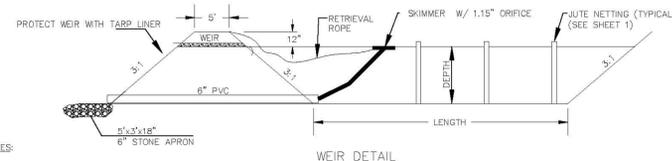
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
CROSS SECTIONS B-B



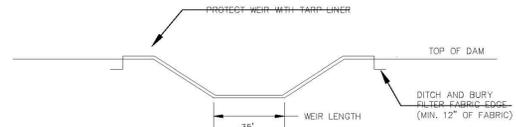
PROFILE - SECTION B-B
SCALE 1" = 100' H
1" = 10' V



REVISIONS



- NOTES:
1. USE FOR DRAINAGE AREAS NOT EXCEEDING 5 (FIVE) ACRES.
 2. EARTH BERM SHALL BE STABILIZED w/SEEDING ACCORDING TO SPECIFICATIONS.

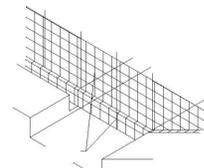


STANDARD SKIMMER FILTER BASIN

Maintenance

Inspect skimmer sediment basins at least weekly and after each significant (one-half inch or greater) rainfall 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. Pull the skimmer to one side so that the sediment underneath it can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation growing in the bottom of the basin does not hold down the skimmer. 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 dislodge the debris and restore flow. If this does not work, pull the skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see if it is clogged; if so remove the debris. 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.

6.64.8



BAFFLE INSTALLATION - STEP 1

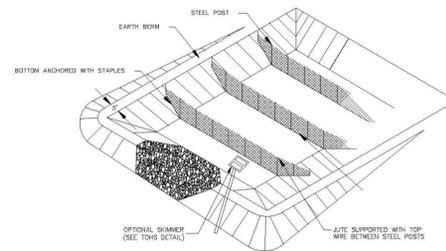
Maintenance

Inspect baffles at least once a week and after each rainfall. Make any required repairs immediately.

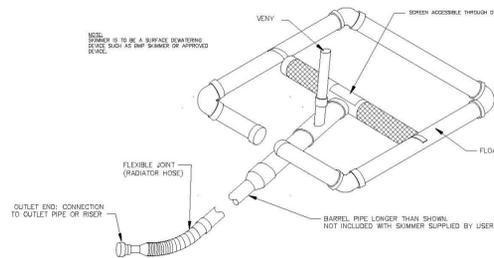
Be sure to maintain access to the baffles. Should the fabric of a baffle collapse, tear, decompose, or become ineffective, replace it promptly.

Remove sediment deposits when it reaches half full to provide adequate storage volume for the next rain and to reduce pressure on the baffles. Take care to avoid damaging the baffles during cleanout. Sediment depth should never exceed half the designed storage depth.

After the contributing drainage area has been properly stabilized, remove all baffle materials and unstable sediment deposits, bring the area to grade, and stabilize it.



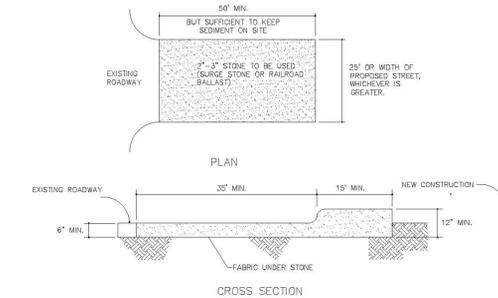
STANDARD SKIMMER FILTER BASIN NTS



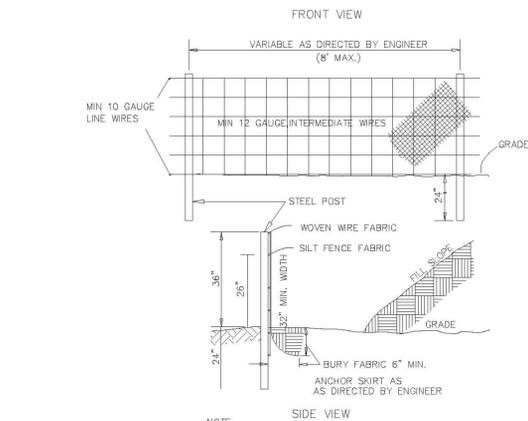
STANDARD SKIMMER DETAIL NTS

- NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
 2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
 3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOKE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.

Maintenance
Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials spilled, washed, or tracked onto public roadways.



CONSTRUCTION ENTRANCE NTS



Maintenance

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 in-effective, replace it promptly. Replace burlap every 60 days.

Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout.

Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

NOTE:

USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW

FOR REPAIR OF SILT FENCE FAILURES USE NO. 57 WASHED STONE FOR ANCHOR.

USE NO. 57 WASHED STONE FOR ANCHOR WHEN SILT FENCE IS PROTECTING A CATCH BASIN

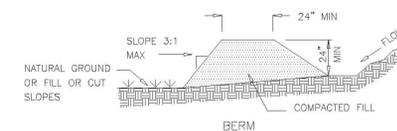
TEMPORARY SILT FENCE NTS

Maintenance

Inspect temporary diversions 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 and appropriately stabilize it.

1. MACHINE COMPACTION OF ALL FILL IS REQUIRED. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT LADEN STORMWATER INTO A SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF THE AREA (OR IN CONJUNCTION WITH THIS OPERATION IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED AT EACH CRITICAL POINT IS REACHED).
2. DIVERSIONS SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.
3. DIVERSIONS SHALL BE SEEDED AND MULCHED IMMEDIATELY.
4. CHECK DEVICE AFTER EACH RAIN, BUT ONCE A WEEK REPAIR AS NECESSARY.

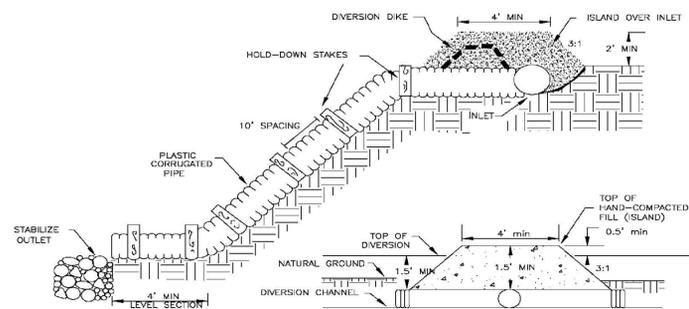
REGARDLESS,



NOTES:

POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE. IF SLOPE EXCEEDS 2% SEED AND MULCH DIVERSION. TRY NOT TO EXCEED 5% (HIGH VELOCITIES EXCEPT). MAXIMUM D. A. = 5 ACRES WITHOUT SUPPORTING CALCS. DIVERSIONS AT THE TOP OF SLOPES MUST EMPTY INTO AN APPROVED SLOPE DRAIN. BERM/DITCH IS MOST COMMONLY USED.

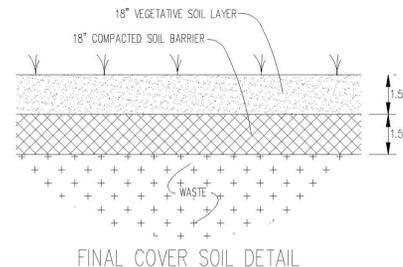
PERMANENT DIVERSION BERM NTS



TEMP SLOPE DRAIN NTS

This drawing is reproduced from the original submittal for the Phase 2 Permit to Construct, with permission from the Engineer of Record, John A.K. Tucker, PE. I participated in the original submittal and am completely familiar with the project and site conditions; I thus reissue these drawings with no changes under my responsible charge.

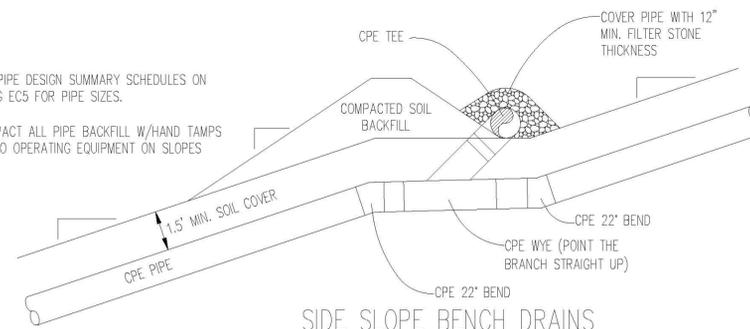
G. David Garrett, PG, PE
February 23, 2014



FINAL COVER SOIL DETAIL

NOTE:

1. SEE PIPE DESIGN SUMMARY SCHEDULES ON DRAWING EC5 FOR PIPE SIZES.
2. COMPACT ALL PIPE BACKFILL W/HAND TAMPS PRIOR TO OPERATING EQUIPMENT ON SLOPES



SIDE SLOPE BENCH DRAINS



February 18, 2008
John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 287 Fuquay-Varina, North Carolina 27586
(919) 567-0483 fax (919) 567-3811
Email: johnak@johnkucke.com

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

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
S&EC DETAIL SHEET

NO.	REVISION/COMMENTS	DATE
1.	REISSUED PER/DWG COMMENTS	10-26-08

DATE	NO.	REVISION
10-31-08	1	UPDATED WITH SOIL-GAS PROBES PER REGULATORY COMMENTS
2-28-08	0	ISSUED FOR REGULATORY REVIEW

REFERENCE NOTES:
 1. SITE TOPOGRAPHY AND FACILITY DESIGN BY JOHN TUCKER, PE
 2. HYDROGEOLOGIC INVESTIGATION BY DAVID GARRETT, PG, PE



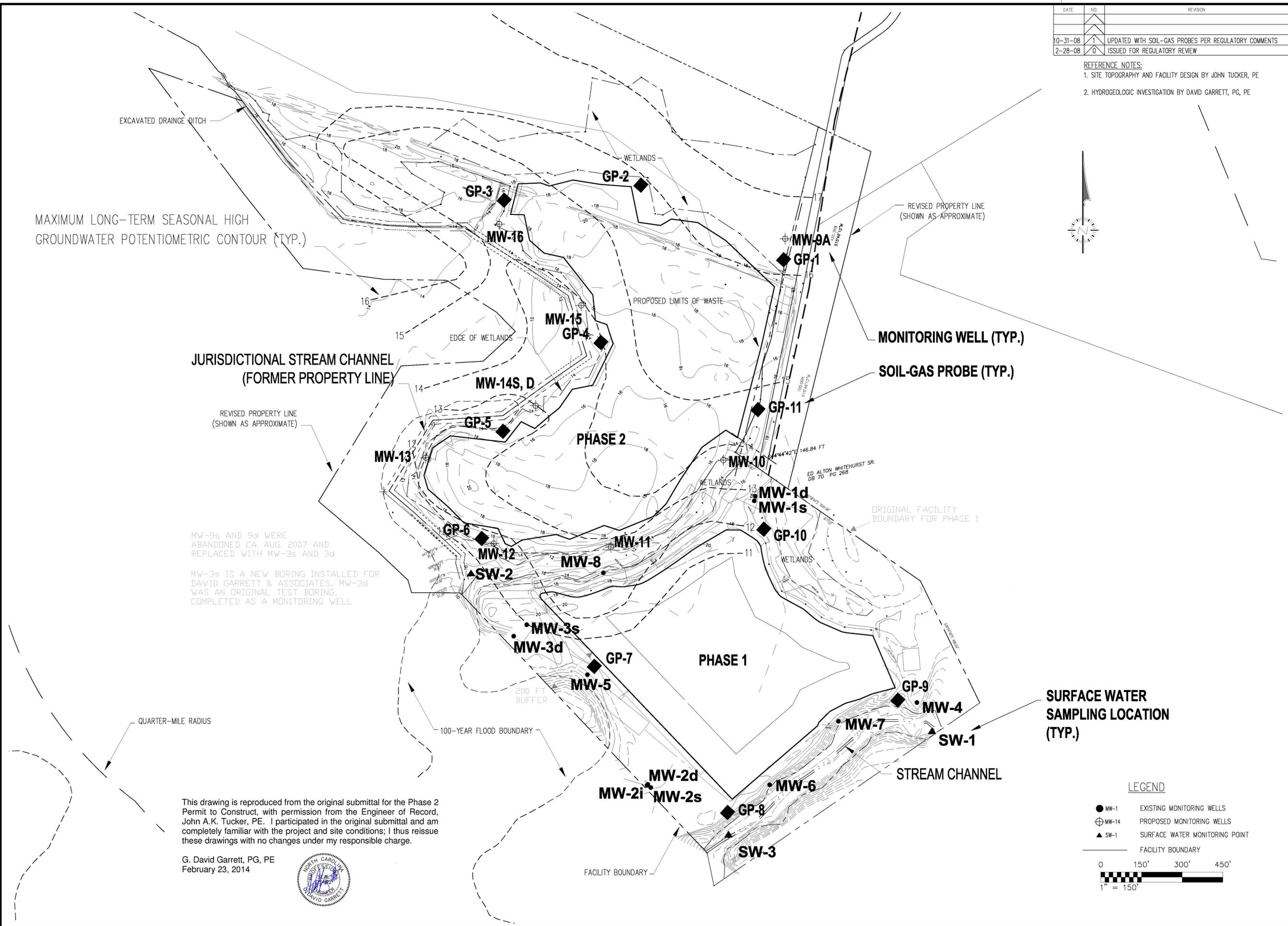
David Garrett & Associates
 Engineering and Geology
 5105 Harbour Town Drive, Raleigh, North Carolina 27604
 Email: david.garrett@dmindesign.com 919-231-1818 (Office and Fax) 919-418-4375 (mobile)



PROJECT TITLE:
 C&D LANDFILL, INC.
 PITT COUNTY, NC
 PERMIT TO CONSTRUCT
 PERMIT #74-07

DRAWING TITLE:
 FACILITY MONITORING
 PLAN AMENDMENTS
 (PHASE 2 APPLICATION)

DESIGNED BY: G.D.G.	DRAWN BY: G.D.G.
CHECKED BY: J.A.T.	PROJECT NO.: CDLF-2
SCALE: AS SHOWN	DATE: FEBRUARY 2008
FILE NAME: CDLF-2-WQMP	SHEET NO.: 16
	DRAWING NO.: MP1



MAXIMUM LONG-TERM SEASONAL HIGH
 GROUNDWATER POTENTIOMETRIC CONTOUR (TYP.)

JURISDICTIONAL STREAM CHANNEL
 (FORMER PROPERTY LINE)

REVISED PROPERTY LINE
 (SHOWN AS APPROXIMATE)

MW-9s AND 9d WERE
 ABANDONED CA. AUG. 2007 AND
 REPLACED WITH MW-3s AND 3d

MW-3s IS A NEW BORING INSTALLED FOR
 DAVID GARRETT & ASSOCIATES, MW-3d
 WAS AN ORIGINAL TEST BORING,
 COMPLETED AS A MONITORING WELL

QUARTER-MILE RADIUS

100-YEAR FLOOD BOUNDARY

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G. David Garrett, PG, PE
 February 23, 2014



MONITORING WELL (TYP.)

SOIL-GAS PROBE (TYP.)

SURFACE WATER
 SAMPLING LOCATION
 (TYP.)

LEGEND

- MW-1 EXISTING MONITORING WELLS
- ⊕ MW-14 PROPOSED MONITORING WELLS
- ▲ SW-1 SURFACE WATER MONITORING POINT
- FACILITY BOUNDARY

