

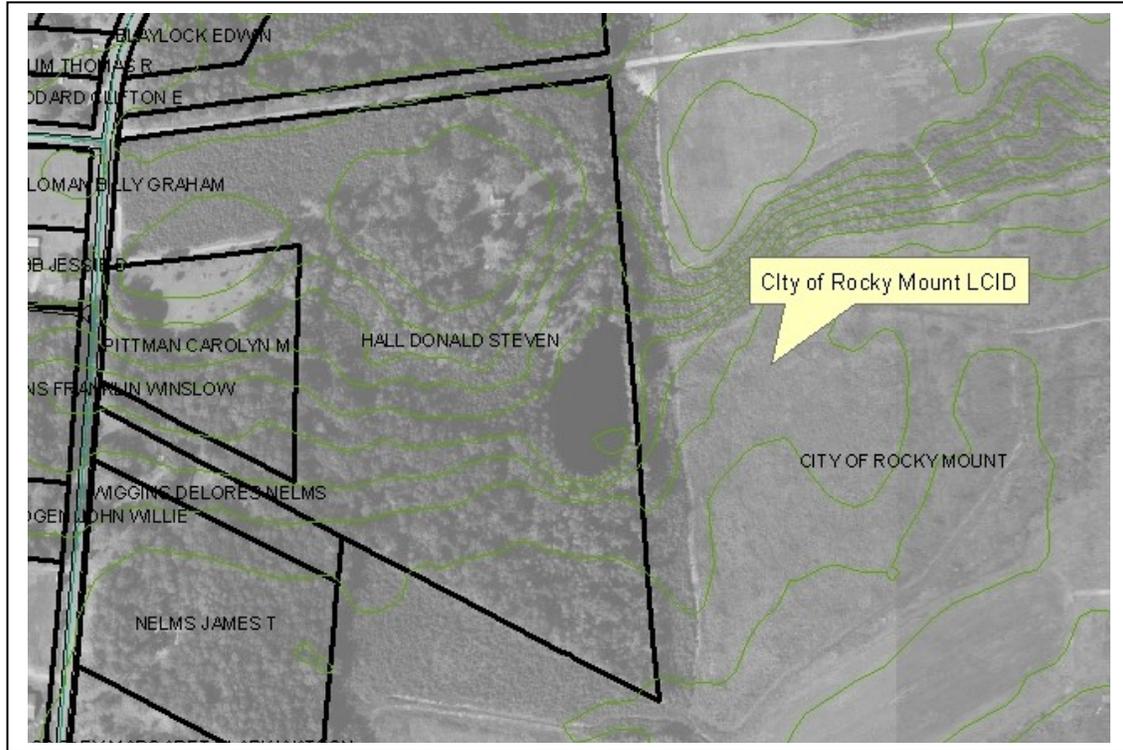
APPROVED
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

Date 11/04/2010 By Patricia M. Backus

Attachment 1 Part II Document 5
Permit 33-G PERMIT DIN 11593



OPERATIONAL PLAN



Scanned By	Date	DOC ID	Permit
Backus	11/04/2010	11594	33-G

CITY OF ROCKY MOUNT LAND CLEARING AND INERT DEBRIS (LCID) LANDFILL PERMIT # 33G

November 1, 2010

Facility Name and Address

City of Rocky Mount Land Clearing and Inert Debris Landfill (Phase VII)
3873 Old Battleboro Road
Rocky Mount, NC 27801

GPS Coordinates

N 35.99492 E 77.75092

Facility Contacts

Jonathan L. Boone, P.E.
Director of Public Works
City of Rocky Mount
331 South Franklin Street
Rocky Mount, NC 27804
(p) 252-972-1299
(f) 252-972-1173

Ed White
Street/Stormwater Superintendent
City of Rocky Mount
208 East Grand Avenue
Rocky Mount, NC 27801
(p) 252-467-4907
(f) 252-467-4905

Project Background

The Rocky Mount LCID Landfill was developed in order to provide for a single location to dispose of inert debris generated by city forces during the course of their duties. In addition to consolidating this material in one location, the LCID landfill was envisioned as a way to provide more oversight and control over the disposal of such waste and a mechanism by which to insure that disposal of such material was handled in a manner consistent with regulations promulgated by the State of North Carolina and administered by NCDENR.

While the landfill was designed in such a way as to provide a long term solution for the disposal of such waste by the City, it is the intent of the City to be judicious in its use in order to extend the service life of the facility and to divert waste that could be disposed of in a more cost effective manner from reaching the LCID (e.g. vegetative debris that could be processed at the Arrow Road compost site).

The permit to construct the LCID was issued on April 15, 2003 and the permit to operate the facility was issued on April 25, 2005. The facility was designed to be built out across seven (7) individual phases, providing a total disposal capacity of over 940,000 cubic yards. At present the City is operating in Phase VII which provides an estimated disposal capacity of 153,342 cubic yards. At current disposal rates, it is estimated that Phase VII will provide adequate disposal capacity for the City between now and the year 2030.

Material Accepted

Material accepted at the LCID will be as defined in 15A NCAC 13B 0560-0565. In addition to the guidance provided therein, the City of Rocky Mount and its operational Divisions will comply with guidance provided by NCDENR dated October 28, 2010 and incorporated into this document for reference as Attachment A.

In general, acceptable material would include land clearing waste, concrete, asphalt, brick, concrete block, uncontaminated soil, gravel, rock, untreated and unpainted wood, and yard trash. Yard trash would include yard maintenance items such as grass, tree limbs, and similar material. Unacceptable material for disposal at the LCID would include trash (paper or plastic), pipe, plywood, particle board, treated lumber, painted materials, siding of any type, shingles, furniture, buckets, roofing material, and metal.

Operational Parameters

Operational parameters for Phase VII of the LCID will be as follows:

- In general, the facility will be open Monday through Friday from 7:30 a.m until 6:00 p.m.
- The LCID will not be made available or accept waste from the public. Access to the facility is limited to City of Rocky Mount personnel or their agents disposing of waste generated in the course of carrying out their duties on behalf of the City.
- Access will be from Old Battleboro Road and controlled by means of a steel gate. Signs will be maintained at the entrance providing the contact name and number in case of an emergency and the permit number for the facility (33G).
- A secondary gate will be maintained at the point of access to Phase VII and signs posted to advise users of acceptable and unacceptable waste for disposal at the LCID. The gate shall be unlocked and then locked after each use.
- Routine drive by inspections will be conducted by Public Works personnel. Any violation of the disposal guidelines noted during these routine inspections will be relayed to the Department of Public Works for follow up.
- At a minimum, the Streets/Stormwater Division will insure that adequate soil cover is applied monthly for debris placed at the site or when the active area reaches one acre in size, whichever occurs first.
- Open burning of solid waste is prohibited.
- Addition of beneficial fill necessary to expand the disposal area within the Phase VII limits will be introduced as the footprint of the disposal area necessitates expansion.
- Within 1 to 2 years of the buildout of Phase VII, the City of Rocky Mount will pursue the permit(s) necessary to open the next phase of the LCID.

Leachate and Stormwater Quality

- To the degree possible, surface water will be diverted from the LCID via the use of perimeter diversion swales.
- The WWTP will maintain a rain gauge for the LCID.
- Adequate erosion control measures will be maintained on site to prevent silt from leaving the site and to prevent excessive erosion.
- Stormwater control features will be inspected on a weekly basis and within 24 hours of a 1/2" rainfall event. Said inspection will include recording a qualitative judgment of the clarity, floating solids, suspended solids, oil sheen, and other obvious factors indicative of stormwater quality.

Site Security and Access Control

Access to the LCID is controlled through the use of two gates. The first is located at the entrance to the City's property adjacent to the intersection of Old Battleboro Road and Fountain School Road and is opened in the morning and closed in the evening Monday through Friday. The second gate is located at the entrance to the only active cell in the LCID (Phase VII). This gate remains locked and is opened and then resecured by the employees using the LCID after each use. In addition to the gates, site security is provided through periodic visits by city staff and through weekly inspections of the site. The location of the LCID, located approximately 0.4 mile from Old Battleboro Road, also tends to discourage unauthorized use due to the lack of visibility and the distance required to access the site.

In order to discourage unauthorized access after hours, the gates are closed by personnel at the Wastewater Treatment Plant after 6:00 p.m. Monday through Friday and the gates remain closed on Saturday and Sunday.

Personnel Requirements

Only city staff and city authorized contractors are permitted to use the LCID. This site is not open to the public or outside contractors. For those departments with staff permitted to use the LCID, a briefing of the Operations Plan will be provided once approved by NCDENR. In addition, a copy of the plan will be posted at the site. In addition to training the appropriate personnel, an activity log will be maintained at the site to document activity at the LCID and to characterize the origin, type, and quantity of material received.

Record Keeping

At a minimum, Public Works personnel conduct routine drive-by inspections of the LCID (at least on a weekly basis) to check for inappropriate material, placement of adequate soil cover, adequate sedimentation and erosion control measures, to review activity recorded in the daily log, and to verify that an up to date copy of the Operations Plan is available on site. These inspections will be documented and retained in the on-site activity log. In addition to routine

inspections, personnel will also inspect the site after a ½ inch rainfall event or greater to inspect the stormwater control features and to characterize the quality of stormwater runoff. A copy of the inspection reports will be retained on site.

Other

WWTP personnel will conduct an annual methane check for the LCID

Emergency Contingency Plan

Edgecombe County and the City of Rocky Mount Fire Departments will respond to any emergencies associated with operation of the LCID. Circumstances requiring emergency response will be reported by staff or the general public through the use of 911 or based on contact information maintained at the entrance to the LCID. In the event access to the site is disrupted due to an emergency, each of the operating Divisions that utilize the City of Rocky Mount LCID will be advised of the temporary closure and the need to make arrangements with the Nash County or Edgecombe County Landfill to dispose of material destined to the LCID until the site is reopened.

Appendices

Appendix A – NCDENR Disposal Guidelines

Appendix B – Existing and Proposed Signage

Appendix C – Map of LCID (scale 1 inch = 150 feet)

Appendix D – Cross-section of Phase VII of LCID (currently active cell)

Appendix A

**CLARIFICATION OF MATERIALS ACCEPTABLE FOR DISPOSAL AT
CONSTRUCTION AND DEMOLITION SOLID WASTE LANDFILLS (C&DLF) AND
LAND CLEARING AND INERT DEBRIS LANDFILLS (LCID)**

This appendix provides clarification of the types of materials acceptable for disposal at a construction and demolition waste landfill and a land clearing and inert debris landfill and for processing at a yard waste facility.

Construction and demolition debris is defined in the statutes as waste or debris resulting solely from construction, remodeling, repair, or demolition operations on pavement, buildings, or other structures. Rules .0531 through .0547 of the Solid Waste Management Rules (Rules) (15A NCAC 13B) provide the regulations for C&DLF.

A C&DLF may accept asbestos waste for disposal as long as it is managed in accordance with Rule .0542 (c)(2) of the Rules. Hazardous or liquid waste may not be accepted for disposal in accordance with Rules .0542(e)(3) and (5).

The Solid Waste Section may approve industrial solid waste on a case-by-case basis for disposal in a C&DLF. Industrial solid waste is solid waste generated by manufacturing or industrial processes that is not a regulated hazardous waste. The requirements for the approval are addressed in Rule .0542(e)(4).

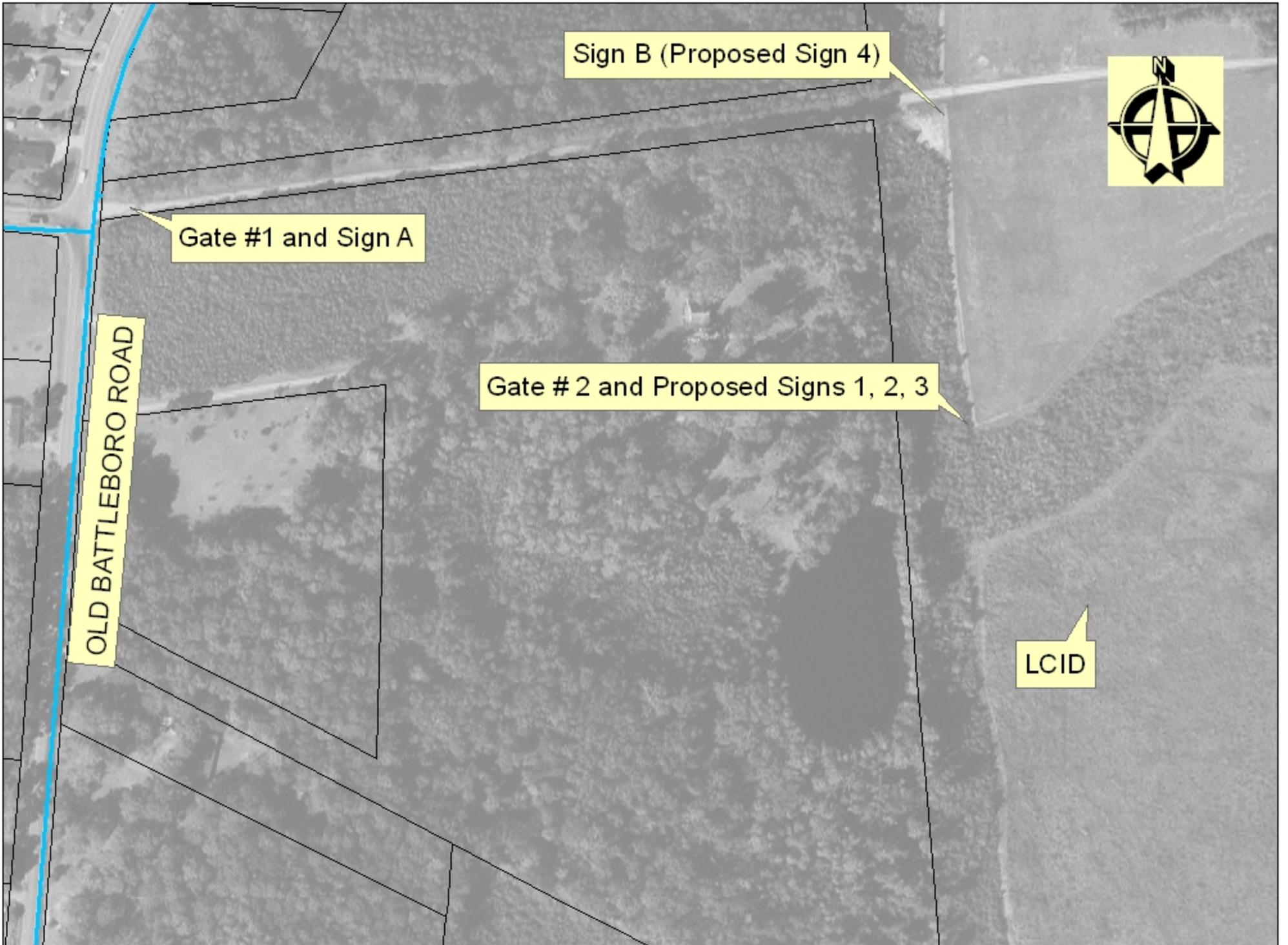
Land clearing waste is defined in the rules as waste that is generated solely through land clearing activities such as stumps, stumps, trees, limbs, brush, grass, and other naturally occurring vegetative matter.

A land clearing and inert debris landfill is defined in the rules as a facility for the land disposal of land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash.

Yard trash is defined as solid waste resulting from landscaping and yard maintenance such as grass, tree limbs, and similar vegetative material.

A yard waste facility is an alternative to landfill disposal where yard trash and land-clearing waste are processed into compost in accordance with the .1400 Rules for Solid Waste Compost Facilities.

Appendix B



Sign B (Proposed Sign 4)



Gate #1 and Sign A

OLD BATTLEBORO ROAD

Gate # 2 and Proposed Signs 1, 2, 3

LCID

NO TRESPASSING
NO ATV'S
VIOLATORS WILL BE
PROSECUTED

3701 OLD BATTLEBORO RD.
CITY OF ROCKY MOUNT
L.C.I.D. SITE
WWTP EMERGENCY
EVACUATION ROUTE
LAT 35°59' 45.94" LON 77°45' 20.52"
FOR EMERGENCY CALL 972-1411

*Sign
A*

Sign B

CITY OF ROCKY MOUNT
LCID LANDFILL PERMIT # 33G
IN CASE OF EMERGENCY
CALL 252-972-1400



Sign 1

MATERIAL ACCEPTED AT THE LCID

Land Clearing Waste	Gravel
Concrete, Asphalt, Brick	Rock
Uncontaminated Soil	Grass
Untreated, Unpainted Wood	Tree Limbs (limited)

Sign 2

MATERIAL NOT ACCEPTED AT THE LCID

Trash (paper or plastic)	Treated Lumber
Pipe (VCP, RCP, or plastic)	Painted Material
Plywood, Particle Board	Buckets
Siding, Roofing Material	Furniture
Metal	

Sign 3

NOTICE

All users should sign in using
the daily log maintained on site.
NO EXCEPTIONS.

Sign 4

CITY OF ROCKY MOUNT

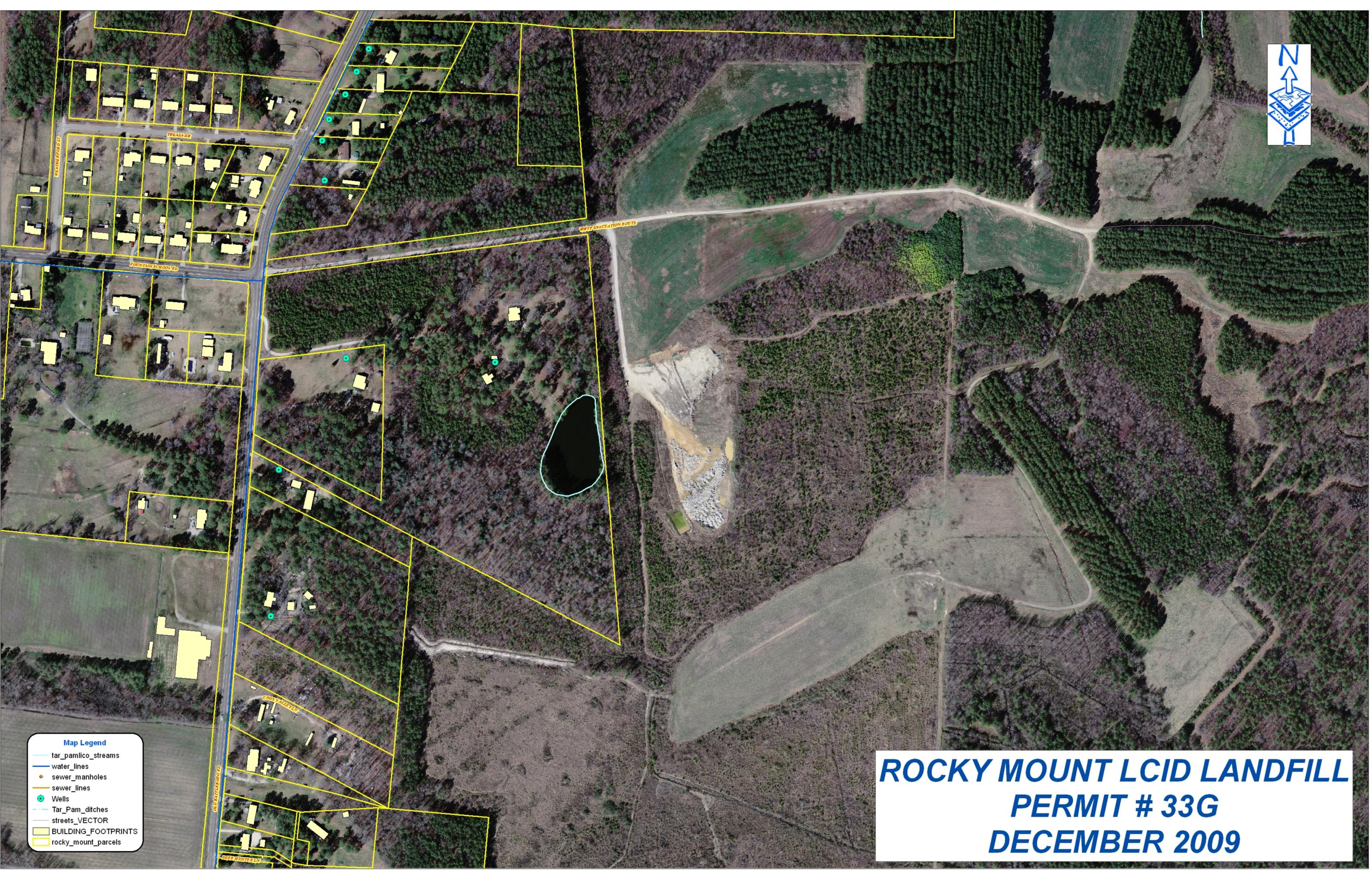
LCID LANDFILL PERMIT NO. 33G

IN CASE OF EMERGENCY

CALL 972-1411 or 972-1290

LANDFILL IS NOT OPEN TO THE PUBLIC

Appendix C



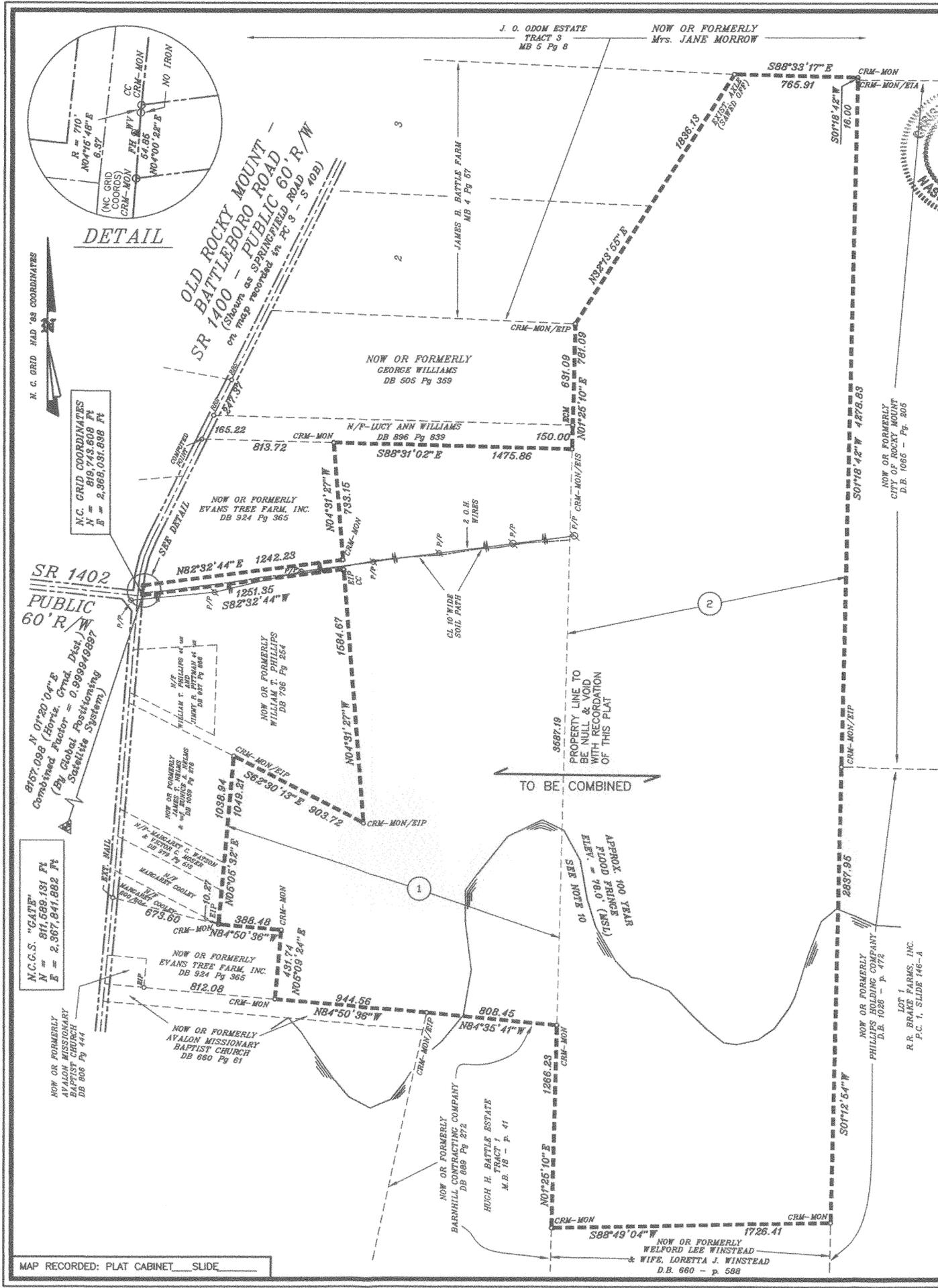
**ROCKY MOUNT LCID LANDFILL
PERMIT # 33G
DECEMBER 2009**

- Map Legend**
- tar_pamlico_streams
 - water_lines
 - sewer_manholes
 - sewer_lines
 - Wells
 - Tar_Pam_ditches
 - streets_VECTOR
 - BUILDING_FOOTPRINTS
 - rocky_mount_parcel



City Map
1 inch equals 150 feet

Engineering Department
331 S Franklin St
Rocky Mount, NC 27802



NORTH CAROLINA, NASH COUNTY

I, a Notary Public of the County and State aforesaid, certify that NILS W. JOYNER, JR., a licensed land surveyor, personally appeared before me this day and acknowledged the execution to the foregoing instrument. Witness my hand and official stamp or seal, this 12th day of September, 2002.

Stamp or Seal Notary Public: Christy C. Bailey

My Commission expires: 04.02.05

Stamp of Seal

 PUBLIC
 NASH COUNTY, N.C.

This Subdivision is exempt from the City of Rocky Mount Planning Board approval according to standards vested in G.S. 160A - 1376.

Frank Hedrick 10-07-02
 Director of Planning & Development

Judy W. Cole 10-07-02
 City Engineer

THE ORIGINAL LOT LINE between (1) Deed Book 1071 Page 247 and (2) Deed Book 1065 Page 103, Edgecombe County Reg., is now NULL & VOID due to the recombination of lots as shown hereon, as specified in the City of Rocky Mount Subdivision Ordinance, section 3.4, item (4), page 2127.

Frank Hedrick 10-07-02
 Director of Planning & Development

Judy W. Cole 10-07-02
 City Engineer

- LEGEND**
- Lines Surveyed
 - Lines Not Surveyed
 - EIP --- Existing Iron Pipe
 - EIA --- Existing Iron Axle
 - NIP --- New Iron Pipe Set
 - NI --- No Iron Set or Found
 - ECM --- Existing Concrete Monument
 - R/W --- Road Right-of-Way
 - C/L --- Road Centerline
 - o --- Indicates Iron Property corners set unless otherwise noted.
 - CC --- Control Corner
 - SAN.MH --- Sanitary Sewer Manhole
 - D&U --- Drainage & Utility Easement
 - N/F --- Now or Formerly
 - MBL --- Minimum Building Line
 - RRS --- Railroad Spike
 - CRM-MON = 3/4" Rebar with 3/4" Aluminum Cap Stamped City of Rocky Mount Survey Marker set in concrete.
 - CRM-MON/EIA(EIP,EIS,etc) = Bent EIA,EIP,etc. replaced by CRM-MON.
- SYMBOL TABLE**
- ⊙ P/P Power Pole and Anchor(CW)
 - WF Water Valve
 - ▲ FH Fire Hydrant

- NOTES:**
1. --- All Right-of-ways are "Public" unless noted otherwise.
 2. --- Area computed by coordinate method.
 3. --- All distances are chord.
 4. --- Total No. of Lots = 1.
 5. --- NO BOUNDARY SURVEY PERFORMED. Metes and Bounds shown hereon were taken from survey by Joyner, Keeny & Associates, dated Dec. 10, 1991.
 6. --- Legal Reference:
 1) That property as shown on map entitled "City of Rocky Mount" by Joyner, Keeny & Associates, Oct. 16, 1991, recorded in Plat Cabinet 3 Slide 40B, Edge. Co. Reg. Also being that property described in Deed Book 1071 Page 247.
 2) That property described in Deed Book 1065 Page 103, Edge. Co. Reg.
 7. --- Wetlands are not shown and may not have been determined.
 8. --- This map does not depict encumbrances that are found during a thorough title search.
 9. --- The recombined lots and applicable setbacks are hereby amended with the recordation of this plat.
 10. --- THE 100 YEAR FLOOD FRINGE WAS ELECTRONICALLY DIGITIZED FROM USGS QUAD MAPS "ROCKY MOUNT" & "HARTSEASE" ACCORDING TO THE 100 YEAR FLOOD ELEVATION OF 78.0 FT AS SHOWN ON FIRM MAP No. 370092 0006 C. THIS IS ONLY AN APPROXIMATION, THE ACTUAL FLOOD FRINGE SHOULD BE DETERMINED BY AN ACTUAL FIELD SURVEY BEFORE ANY CONSTRUCTION TAKES PLACE IN THIS AREA.
 11. --- Boundary Area = 395.91 Acres.

NORTH CAROLINA, NASH COUNTY

I, Nils W. Joyner, Jr., certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book 1065/1071, page 103/247, etc.) (other); that the boundaries not surveyed are clearly indicated as drawn from information found in Book 1065/1071, page 103/247; that the ratio of precision as calculated is 1: 10,000; that this plat was prepared in accordance with G. S. 47-30 as amended. Witness my original signature, license number and seal this 12th day of September, A. D., 2002.

Surveyor: Nils W. Joyner, Jr.
 License Number: L - 2806

Seal or Stamp

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR
 Nils W. JOYNER, JR.
 L-2806

Nils W. Joyner, Jr., Professional Land Surveyor License No. L - 2806 Certify:

THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION;

J.W.C.
 PROFESSIONAL LAND SURVEYOR NO. L - 2806

State of North Carolina
 County of Edgecombe

I, _____, Review Officer of Edgecombe County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

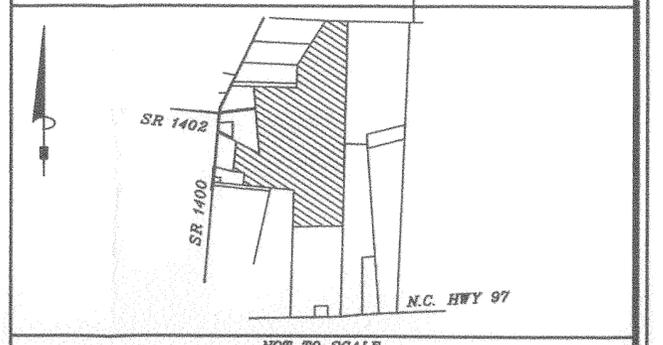
Date _____ Review Officer _____

NORTH CAROLINA, EDGECOMBE COUNTY

Filed for registration this _____ day of _____, 2002 at _____ o'clock _____ M and duly registered in Plat Cabinet _____ Slide _____

Judy W. Cole
 Register of Deeds

By _____



JOYNER - KEENY & ASSOCIATES
 PLANNING & LAND SURVEYING

(252) 977 - 3124
 209 NORTH PEARL STREET
 ROCKY MOUNT, NORTH CAROLINA 27804

RECOMBINATION PLAT
 INERT DEBRIS SITE
 FOR
CITY OF ROCKY MOUNT
 OLD BATTLEBORO ROAD, ROCKY MOUNT, N.C.

TWSP: NUMBER 7	COUNTY: EDGECOMBE, NC
SCALE: 1" = 500' Feet	DATE: SEPT. 10, 2002
DRAWN BY: SLB	JOB NO.: 910944
FILE NO.: RECOMB.DWG	SHEET NO.: 1 OF 1

Appendix D



BEFORE YOU
DIG CALL
NC ONE CALL
CENTER AT
811

SHEET NAME:
CITY OF ROCKY MOUNT
PLAN & PROFILE VIEW
LCID LANDFILL

PROJECT:
CITY OF ROCKY MOUNT
LCID LANDFILL
PERMIT 33G, PHASE VII



DATE: 4/26/09
DRAWN BY: SLH
CHECKED BY: JLB

REVISIONS

NO.	DATE	DESCRIPTION

SCALES
1"=50'
1"=5'

DWG. FILE(S)
*.DWG
*.DWG
*.DWG

SHEET NO.
1 OF 1
DRAWING NO.

95' X 49' W X 3' DEEP SEDIMENT TRAP
W/15' LONG X 2' DEEP SPILLWAY



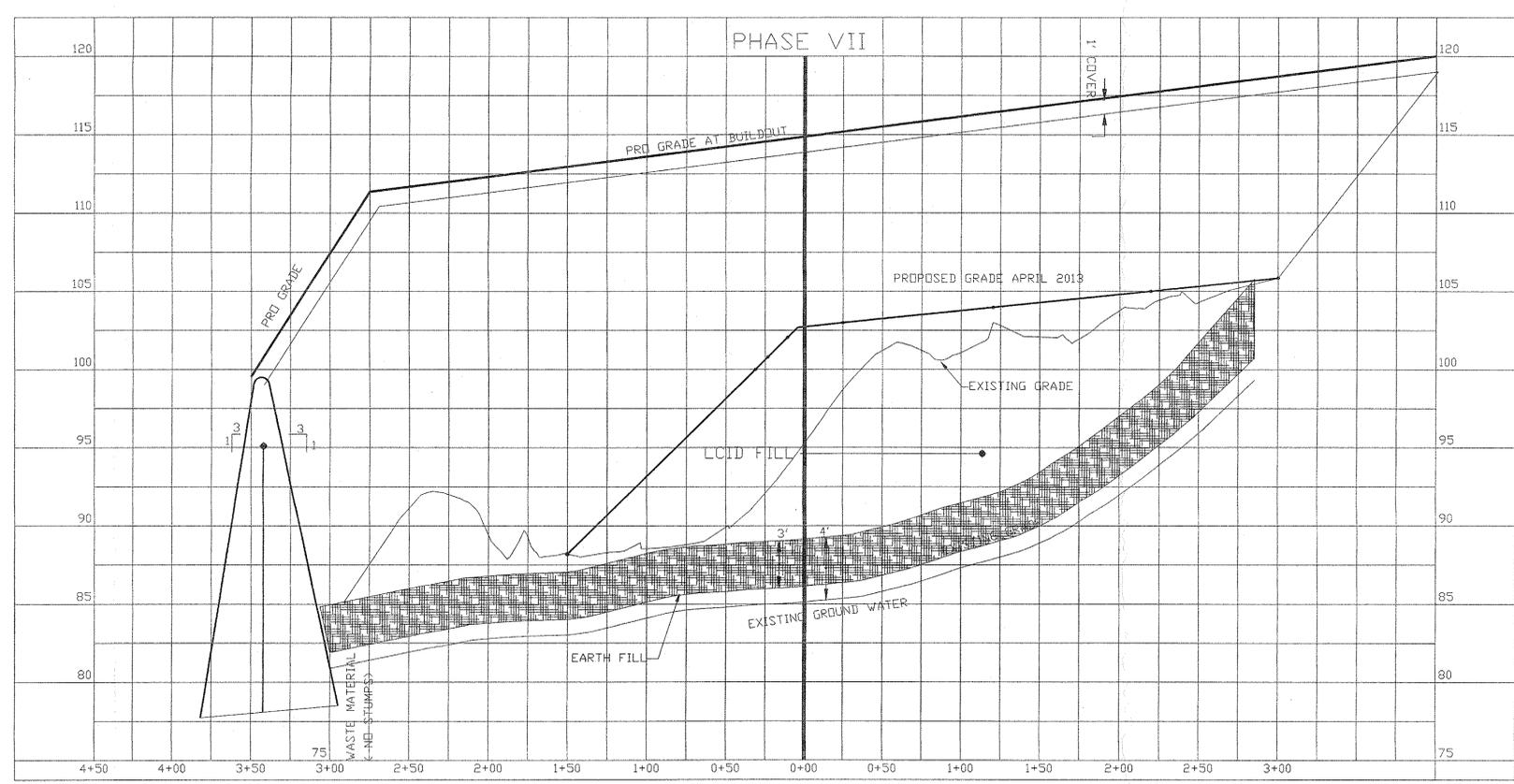
78' X 39' W X 3' DEEP SEDIMENT TRAP
W/8' LONG X 15' DEEP SPILLWAY



MAP 84(CORR09)(EPOCH2002)
GRID NO. 15
819474.0260
238958.7078
106.26

PHASE	YEAR	FILL AMOUNT
VII	2009	9,700 CY
	2013	16,000 CY
	BUILDOUT	153,342 CY

NOTE: ESTIMATES BASED ON VOLUME AT PERMIT RENEWAL, I.E. APRIL 2013



G:\SLH\BONE J\WVTP_PLAN & PROFILE.DWG

FILE COPY