

**JOINT**  
**PUBLIC NOTICE**

**CHARLESTON DISTRICT, CORPS OF ENGINEERS**  
**69A Hagood Avenue**  
**Charleston, South Carolina 29403-5107**  
**and**  
**THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**  
**Office of Ocean and Coastal Resource Management**  
**1362 McMillan Avenue, Suite 400**  
**North Charleston, South Carolina 29405**

REGULATORY DIVISION

Refer to: P/N SAC-2024-00866

November 21, 2024

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et seq.), an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

**Nicholas Webber**  
**Republic Services of South Carolina, LLC**  
**141 Fennell Road**  
**North Charleston, South Carolina 29418**  
[nwebber@republicservices.com](mailto:nwebber@republicservices.com)

for a permit to discharge fill into the freshwater wetlands and tributaries in order to  
construct additional waste cells at the Spring Grove Landfill.

The project is located in freshwater wetlands and tributaries directly south of Weber Road and east of Palmetto Commerce Parkway (3150 Rebecca Collins Drive) in Ladson, Charleston County, South Carolina (Latitude: 32.9546°, Longitude: -80.0996°).

In order to give all interested parties an opportunity to express their views

**N O T I C E**

is hereby given that written statements regarding the proposed work will be received by the **Corps** until

**15 Days from the Date of this Notice,**

and **SCDHEC** will receive written statements regarding the proposed work until

**30 Days from the Date of this Notice**

from those interested in the activity and whose interests may be affected by the proposed work.

The work affecting waters of the United States is part of an overall project known as Spring Grove Landfill. The proposed activities in waters of the United States include the discharge of fill material into freshwater wetlands and tributaries in order to expand the landfill and allow for continued acceptance of waste. The construction of additional waste cells (C&D) will result in 6.36 acres of jurisdictional wetland impact and 673 (or 0.06 acre) linear feet of intermittent stream impact.

**NOTE: This public notice and associated plans are available on the Corps' website at: <http://www.sac.usace.army.mil/Missions/Regulatory/PublicNotices> .**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions of the Coastal Zone Management Program (15 CFR 930). This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. This Public Notice will serve as the notification to the Administrator of the Environmental Protection Agency (EPA) pursuant to section 401(a)(2) of the Clean Water Act.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 6.36 acre of freshwater wetlands located upstream from estuarine habitat utilized by various life stages of species comprising the shrimp, and snapper-grouper management complexes. The District Engineer's initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). The District Engineer's final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to the Section 7 of the Endangered Species Act of 1973 (as amended), the Corps has reviewed the project area, examined all information provided by the applicant, and the District Engineer has determined, based on the most recently available information that the project will have no effect on the frosted flatwoods salamander, Bachman's warbler, Eastern black rail, piping plover, red-cockaded woodpecker, Rufa red knot, Canby's dropwort, American chaffseed, and pondberry; the project is not likely to

adversely affect the Northern long-eared bat and the American wood stork; and the project will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with Section 106 of the NHPA, the District Engineer has consulted South Carolina ArchSite (GIS), for the presence or absence of historic properties (as defined in 36 C.F.R. 800.16)(1)(1)), and has initially determined that historic properties, are present; moreover, these historic properties may be affected by the undertaking. This public notice serves to notify the State Historic Preservation Office that the Corps plans to initiate Section 106 consultation on these historic properties. Individuals or groups who would like to be consulting parties for the purposes of the NHPA should make such a request to the Corps in writing within 30 days of this public notice. To ensure that other historic properties that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office and other interested parties to provide any information they may have with regard to historic properties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic

properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps cannot undertake to adjudicate rival claims.

The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity. **Please submit comments in writing, identifying the project of interest by public notice number, to the following address:**

**U.S. Army Corps of Engineers  
ATTN: REGULATORY DIVISION  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107**

If there are any questions concerning this public notice, please contact Carl Johnson, Project Manager, at (843) 494-0348, or by email at [Carl.a.Johnson@usace.army.mil](mailto:Carl.a.Johnson@usace.army.mil).



# VERTICAL EXPANSION SPRING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL

REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
CHARLESTON COUNTY, SOUTH CAROLINA

## OPERATOR

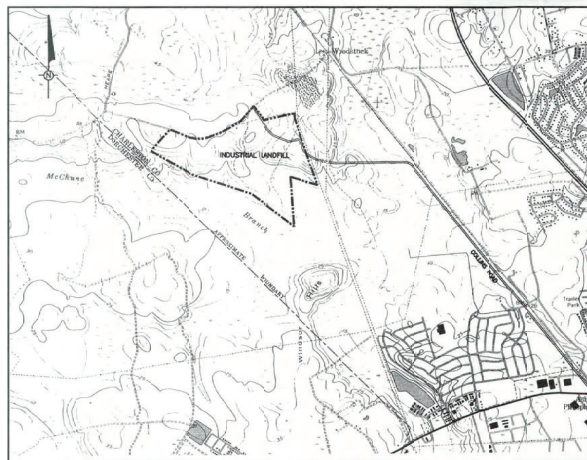
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
684 MAULDIN ROAD  
GREENVILLE, SOUTH CAROLINA 29607  
854-277-6500

SEPTEMBER, 2006  
LAST REVISED: MARCH, 2019

## LEGEND

PROPERTY LINE	---
BUFFER LINE	----
WASTE LIMITS	-----
EXISTING ROAD	=====
EXISTING CONTOUR	840
EXISTING STORM PIPE	-----
EXISTING DROP INLET	□
EXISTING HEADWALL	U
PROPOSED STORM PIPE	840
PROPOSED STORM PIPE WITH PIPE ID	100
PROPOSED DROP INLET	■
PROPOSED HEADWALL	U
PROPOSED SIDE SLOPE BERM WITH DIRECTION OF FLOW	→
PROPOSED SIDE SLOPE DOWNDRAIN PIPE AND RISER	↓

NOTE THIS LEGEND APPLIES TO ALL SHEETS  
WHICH DO NOT OTHERWISE HAVE A LEGEND.



SCALE: 1" = 2000 FEET



HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.  
CONSULTING ENGINEERS

(478) 743-7173  
(478) 743-1703(FAX)

484 MULBERRY ST. - STE. 305  
MARIETTA, GEORGIA 30151



## INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	TITLE SHEET
1	EXISTING TOPOGRAPHIC SURVEY - APRIL, 2006
2	CONSTRUCTION STAKEOUT PLAN
3	CELL BOTTOM GRADING PLAN
4	CELL BOTTOM CLEARANCE TO GROUNDWATER
5	FINAL COVER SYSTEM GRADING PLAN
6	FINAL DRAINAGE PLAN
7	EROSION CONTROL, ACCESS CONTROL AND LANDSCAPE PLAN
8	LANDFILL CROSS SECTION A
9	LANDFILL CROSS SECTION B
10	SEQUENCE OF FILL - FILLING OF CELLS NO. 1 - 3 AND CONSTRUCTION OF CELL NO. 4
11	SEQUENCE OF FILL - FILLING OF CELL NO. 4 AND CONSTRUCTION OF CELL NO. 5
12	SEQUENCE OF FILL - FILLING OF CELL NO. 5 AND CONSTRUCTION OF CELL NO. 6
13	SEQUENCE OF FILL - FILLING OF CELL NO. 6 AND CONSTRUCTION OF CELL NO. 7
14	SEQUENCE OF FILL - FILLING OF CELL NO. 7 AND CONSTRUCTION OF CELL NO. 8
15	SEQUENCE OF FILL - FILLING OF CELL NO. 8 AND CONSTRUCTION OF CELL NO. 9
16	SEQUENCE OF FILL - FILLING OF CELL NO. 9 AND CONSTRUCTION OF CELL NO. 10
17	SEQUENCE OF FILL - FILLING OF CELL NO. 10 AND CONSTRUCTION OF CELL NO. 11
18	SEQUENCE OF FILL - FILLING OF CELL NO. 11 AND CONSTRUCTION OF CELL NO. 12
19	SEQUENCE OF FILL - FILLING OF CELL NO. 12 AND CONSTRUCTION OF CELL NO. 13
20	SEQUENCE OF FILL - FINAL COVER SYSTEM GRADES
21	BORROW AREAS NO. 1 AND 2
22 - 23	MISCELLANEOUS DETAILS

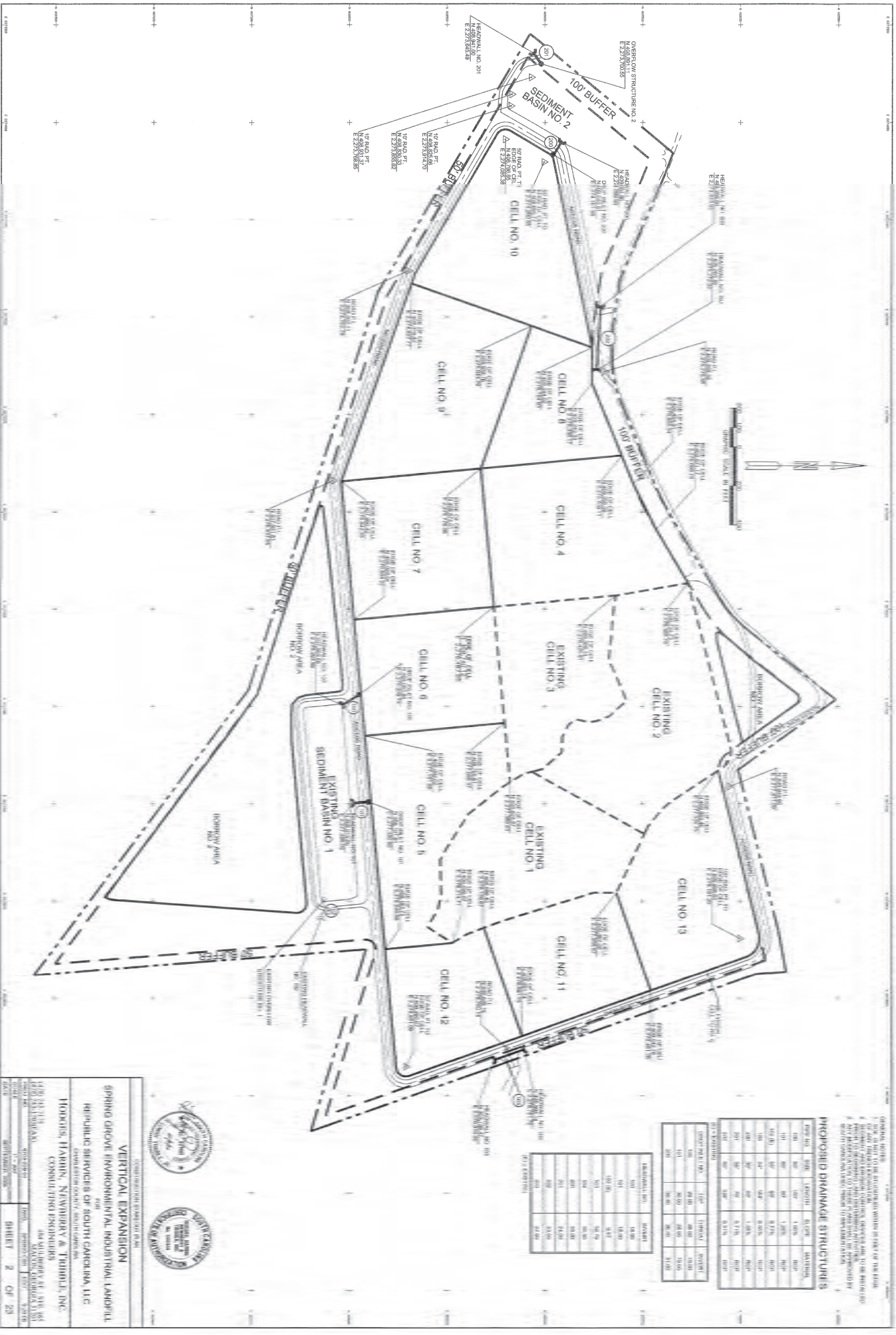
APPROVED BY  
SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL  
BUREAU OF LAND & WASTE MANAGEMENT  
BY: *[Signature]*  
TITLE: \_\_\_\_\_  
DATE ISSUED: \_\_\_\_\_  
PERMIT NO.: \_\_\_\_\_

2019-03-04	DIVIDED CELL NO. 5 INTO CELL NO. 5A AND 5B	3
DATE	DESCRIPTION	SHEETS

REVISION HISTORY







GENERAL NOTES:  
 1. SEE PLANS FOR THE LOCATION AND NUMBER OF EACH OF THE STRUCTURES.  
 2. ALL STRUCTURES SHALL BE CONSTRUCTED TO THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS ADOPTED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION.  
 3. ALL STRUCTURES SHALL BE CONSTRUCTED TO THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS ADOPTED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION.  
 4. ALL STRUCTURES SHALL BE CONSTRUCTED TO THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS ADOPTED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION.

**PROPOSED DRAINAGE STRUCTURES**

STRUCTURE NO.	TYPE	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	AREA (SQ FT)
101	10' x 10'	100	10	10	1000
102	10' x 10'	100	10	10	1000
103	10' x 10'	100	10	10	1000
104	10' x 10'	100	10	10	1000
105	10' x 10'	100	10	10	1000
106	10' x 10'	100	10	10	1000
107	10' x 10'	100	10	10	1000
108	10' x 10'	100	10	10	1000
109	10' x 10'	100	10	10	1000
110	10' x 10'	100	10	10	1000
111	10' x 10'	100	10	10	1000
112	10' x 10'	100	10	10	1000
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124	10' x 10'	100	10	10	1000
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196	10' x 10'	100	10	10	1000
197	10' x 10'	100	10	10	1000
198	10' x 10'	100	10	10	1000
199	10' x 10'	100	10	10	1000
200	10' x 10'	100	10	10	1000



**VERTICAL EXPANSION**  
 SPRING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
 REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
 CONSULTING ENGINEER  
 HODGES, HARRIS, NICHOLSON & TRIMBLE, INC.  
 11111 W. 11th Street, Suite 100  
 Fort Worth, Texas 76116  
 817.335.1111  
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 817.



This topographic base map was produced by BEI Aerial Mapping, Peachtree City, Georgia for Hodges, Harbin, Newberry & Tribble, Inc.

HNT PROJECT # EDCS-162-01 (PISCATAWAY CREEK)

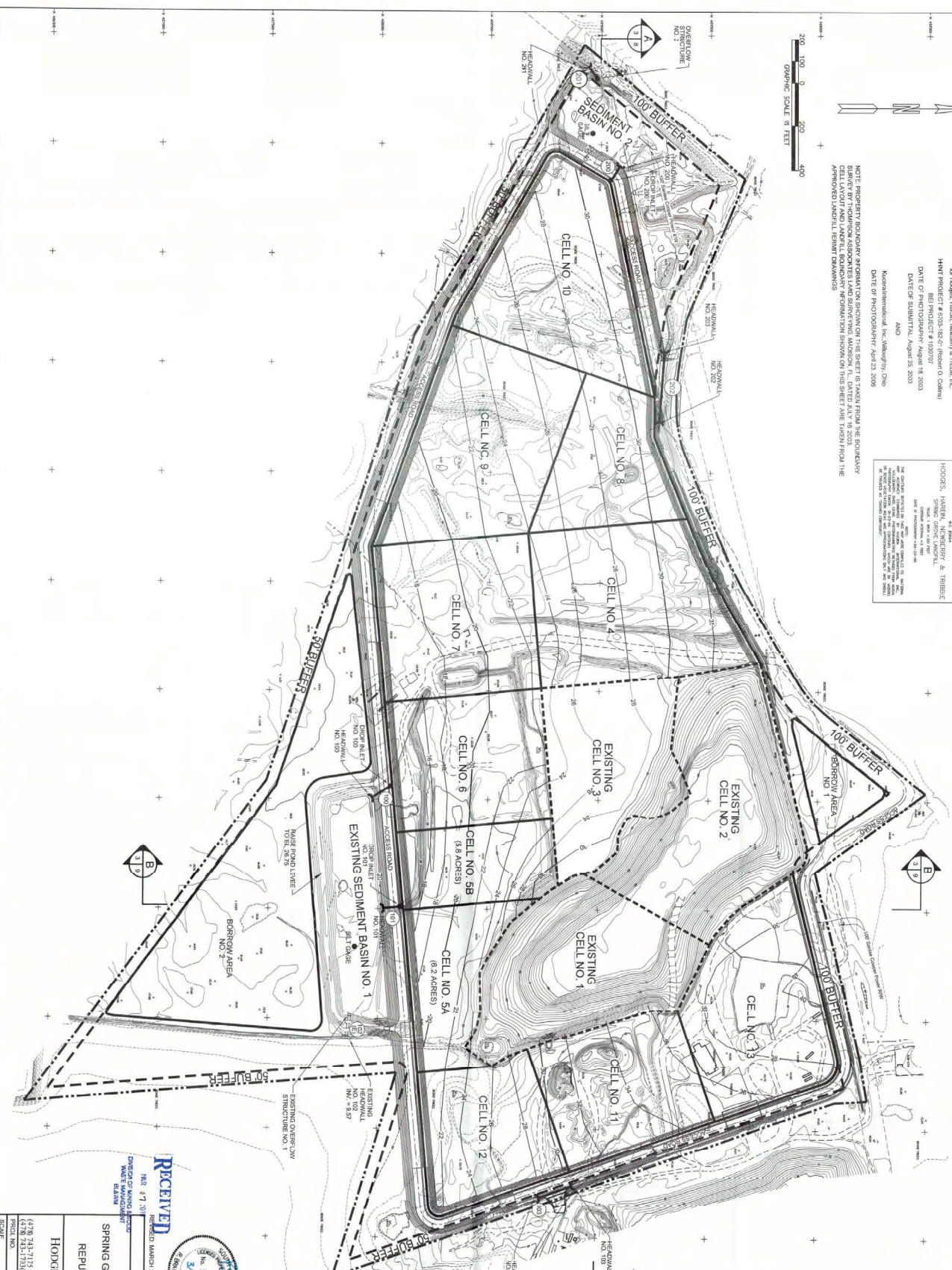
DATE OF PHOTOGRAPHY: August 18, 2003

DATE OF SUBMITTAL: August 25, 2003

AND

DATE OF PHOTOGRAPHY: April 23, 2008  
Kearns International, Inc., Winthrop, Ohio

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.  
3641 W. 10TH STREET, SUITE 100  
PISCATAWAY, NEW JERSEY 07078  
TEL: 908.744.1111  
FAX: 908.744.1112  
WWW.HODGES-HARBIN-NEWBERRY-TRIBBLE.COM



GENERAL NOTES:  
1. SOIL IS NOT TO BE STOCKPILED WITHIN 25 FEET OF THE EDGE  
2. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED  
3. ANY MODIFICATION TO THE EXISTING DESIGN SHALL BE APPROVED BY  
SOUTH CAROLINA DNR PRIOR TO IMPLEMENTATION.

PROPOSED DRAINAGE STRUCTURES

TYPE NO.	SIZE	LENGTH	SLOPE	MATERIAL
100	60"	100'	0.12%	RCP
101	60"	80'	0.12%	RCP
102 (E)	60"	80'	0.12%	RCP
103	24"	164'	0.03%	RCP
200	36"	60'	1.15%	RCP
201	36"	70'	5.14%	RCP
202	60"	325'	0.11%	RCP

HEADWALL NO.	TOP	THROAT	INVERT
100	2800	2600	16.12
101	3000	2800	19.00
200	3840	3640	31.00

HEADWALL NO.	INVERT
100	16.00
101	16.00
102 (E)	9.27
103	36.79
104	36.30
200	30.00
201	24.00
202	33.00
203	32.00

APPROVED BY:  
SOUTH CAROLINA DEPARTMENT OF HEALTH  
BIOLOGICAL AND ENVIRONMENTAL CONTROL  
BY: [Signature]  
TITLE: [Signature]  
PERMIT NO. [Signature]



RECEIVED  
DIRECTOR OF ENVIRONMENTAL  
HEALTH MANAGEMENT  
MARCH 2018 - DOWNSIDE CELL NO. 5 AND CELL NO. 10  
CELL BOTTOM GRADING PLAN  
VERTICAL EXPANSION  
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
CONSULTING ENGINEERS  
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.  
484 WILBERY ST., STE. 365  
NORFOLK, VIRGINIA 23513  
TEL: 757.244.1111  
FAX: 757.244.1112  
WWW.HODGES-HARBIN-NEWBERRY-TRIBBLE.COM

DATE: SEPTEMBER 2006  
SCALE: 1" = 200'  
SHEET 3 OF 23



The hydrograph data was provided by the State of North Carolina, Department of Environment and Natural Resources.

For further information, contact the State of North Carolina, Department of Environment and Natural Resources, 100 North Salisbury Street, Raleigh, NC 27601.

Scale of Hydrograph: 1 inch = 1000 feet

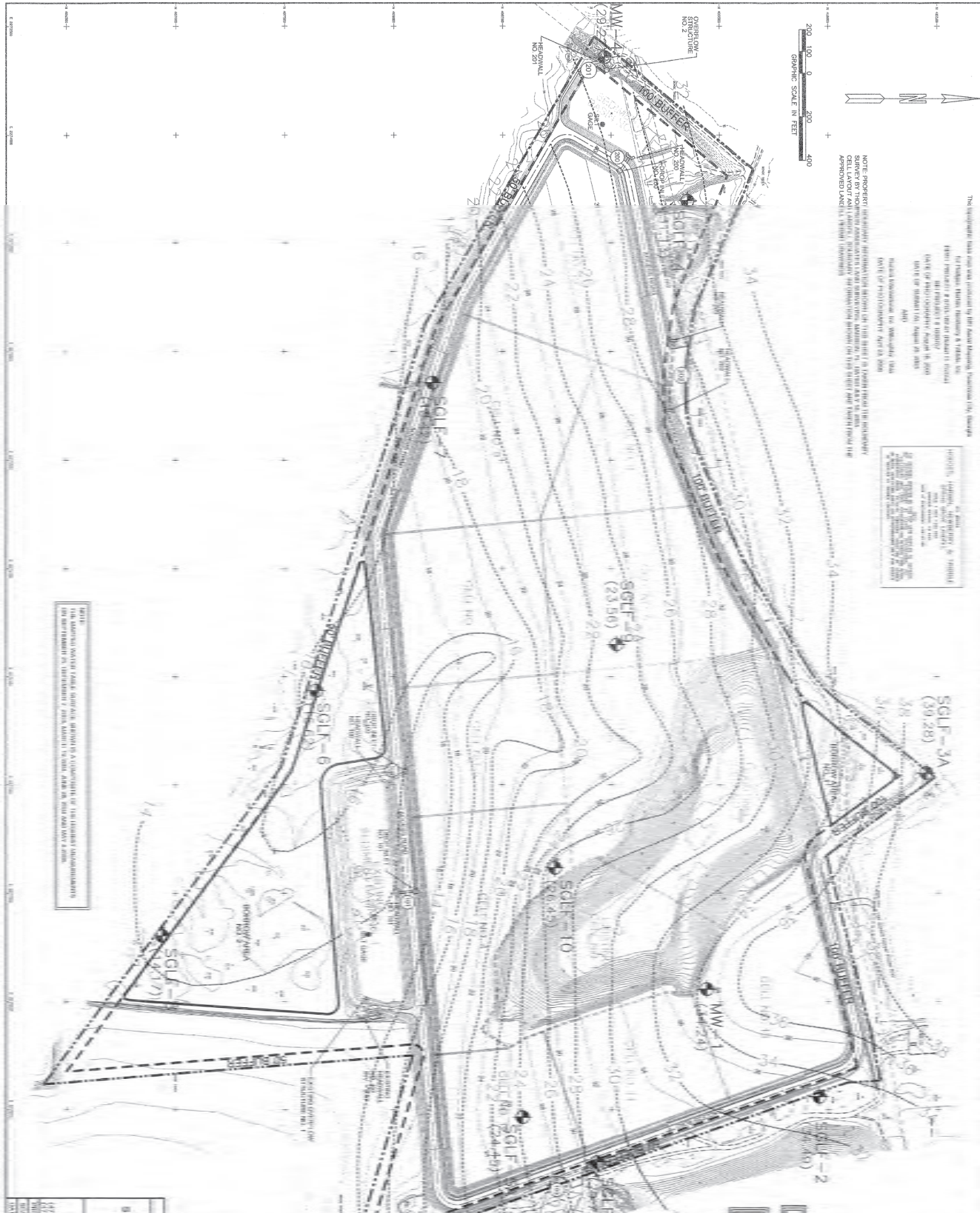
Scale of Elevation: 1 inch = 100 feet

Scale of Area: 1 inch = 100 acres

NOTE: PROPERTY LINES ARE SHOWN BY DOTTED LINES. THE PROPERTY LINES ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN TO SHOW THE GENERAL LOCATION OF THE PROPERTY. THE PROPERTY LINES ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN TO SHOW THE GENERAL LOCATION OF THE PROPERTY.



DATE: 10/1/2010  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 APPROVED BY: J. H. HARRIS



**VERTICAL EXPANSION**  
 BRINGING ONCE ENVIRONMENTAL INDUSTRIAL LANDFILL  
 REUSE SERVICES OF SOUTH CAROLINA, LLC  
 HARRIS, HARRIS, HARRIS & TRIMBLE, INC.  
 CONSULTING ENGINEERS  
 1000 W. 10TH STREET, SUITE 100  
 WILMINGTON, NC 28401  
 PHONE: 704.261.1234  
 FAX: 704.261.1235  
 E-MAIL: harris@harris-harris-trimble.com

DATE: 10/1/2010  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 APPROVED BY: J. H. HARRIS

DATE: 10/1/2010  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 APPROVED BY: J. H. HARRIS

DATE: 10/1/2010  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 APPROVED BY: J. H. HARRIS



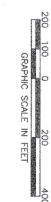
This map was prepared by the following:

For the purpose of this map, the following:

DATE OF SURVEY: 10/1/2011  
DATE OF PLOTTING: 10/1/2011  
DATE OF REVISION: 10/1/2011

SCALE: 1" = 100'

NOTE: THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE SURVEYOR HAS ALSO CONDUCTED A VISUAL INSPECTION OF THE ADJACENT LANDS AND HAS FOUND THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF HIS KNOWLEDGE AND BELIEF.



PROJECT: BRUNING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
OWNER: REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
DATE: 10/1/2011  
BY: [Signature]  
CHECKED BY: [Signature]

THE SURVEYOR HAS CONDUCTED A VISUAL INSPECTION OF THE SITE AND HAS FOUND THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE SURVEYOR HAS ALSO CONDUCTED A VISUAL INSPECTION OF THE ADJACENT LANDS AND HAS FOUND THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF HIS KNOWLEDGE AND BELIEF.



VERTICAL EXPANSION  
BRUNING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
FOR  
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
CONSULTING ENGINEER  
HARRIS, HARRIS, HARRIS & TRIMBLE, INC.  
1000 W. 10TH STREET, SUITE 100  
NORFOLK, VIRGINIA 23510  
TEL: 757/622-1111  
FAX: 757/622-1112  
WWW.HHHTRIMBLE.COM

DATE: 10/1/2011	BY: [Signature]
CHECKED BY: [Signature]	DATE: 10/1/2011
PROJECT NO: 1000	SHEET: 5 OF 23

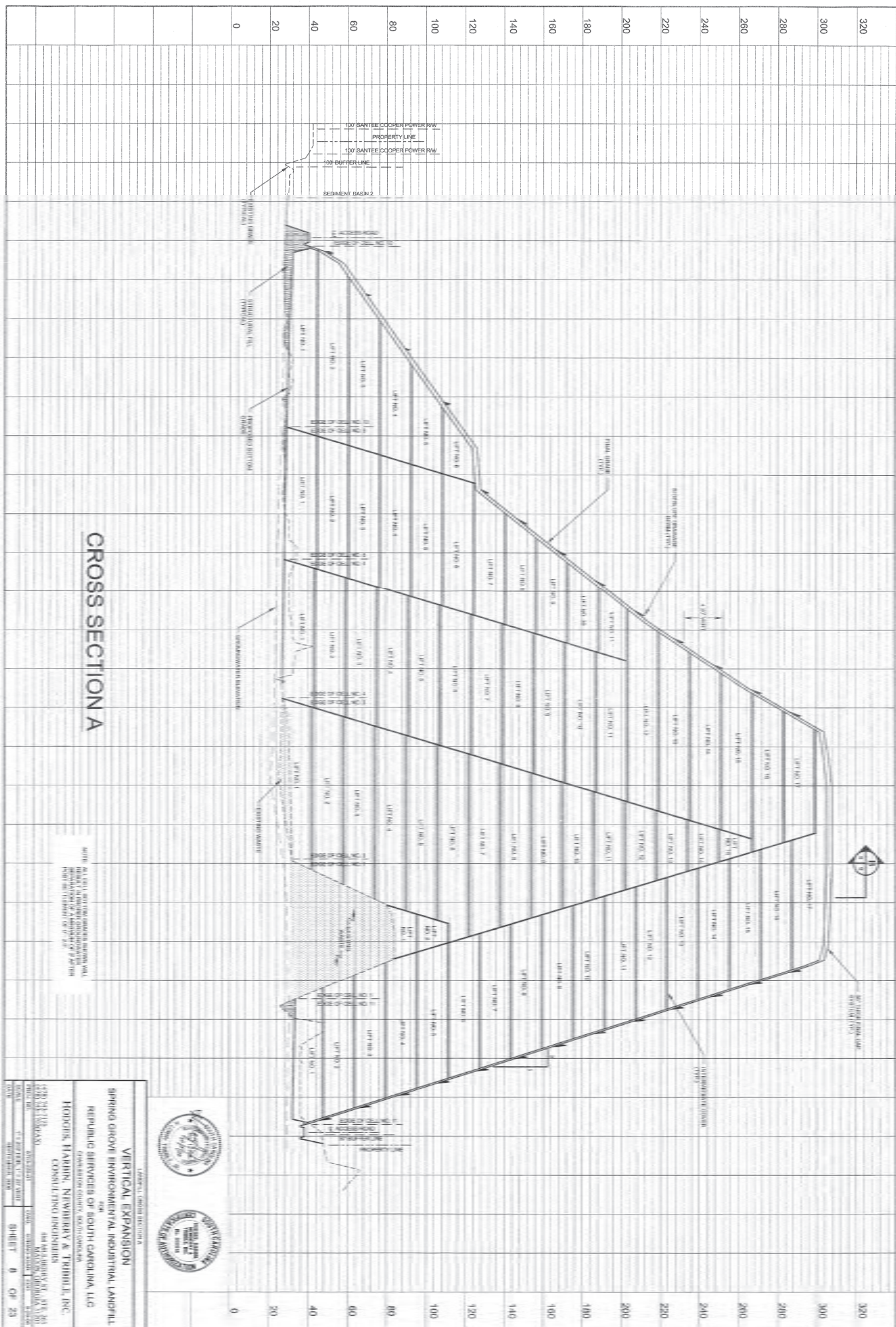












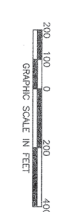




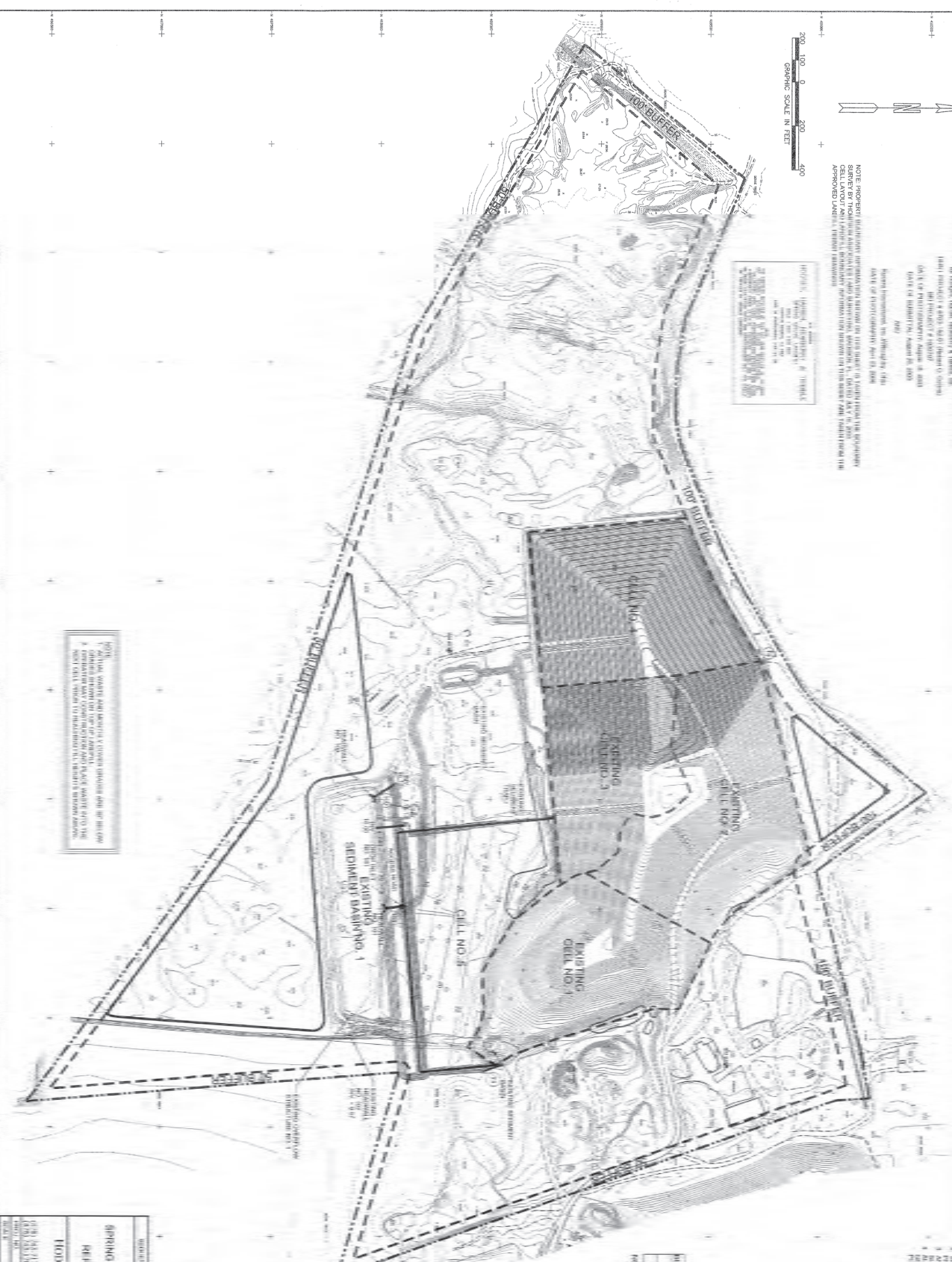


SHEET 10 OF 23





724 The investigators claim they were subjected to FBI pressure, harassment, and attempts to bribe, which inspired a "Warren Report" (1963) and a "Harris Report" (1964) produced by a "Warren Commission" (1964) and a "Harris Commission" (1964). The FBI's "Warren Commission" (1964) and "Harris Commission" (1964) were established to investigate the assassination of President John F. Kennedy. The FBI's "Warren Commission" (1964) and "Harris Commission" (1964) were established to investigate the assassination of President John F. Kennedy.



**NOTE**  
1. A STUDENT QUALIFYING AGAIN FOR A FIVE-YEAR GRADUATE DEGREE MAY NOT ENROLL IN AN ADDITIONAL COURSE FOR CREDIT TOWARD A SECONDARY DEGREE TO OBTAIN ANOTHER FIVE-YEAR GRADUATE DEGREE. THE NEXT CALL OFFERS TO RE-EVALUATE THE STUDENT'S INTERESTS AND GOALS.

PROPOSED CHROMATE STRUCTURE	PROPOSED	EXPERIMENTAL	EXPERIMENTAL	EXPERIMENTAL
	PROPOSED	EXPERIMENTAL	EXPERIMENTAL	EXPERIMENTAL
(1)	60%	100%	0.10%	0.10%
(2)	60%	60%	1.00%	0.10%
(3)	60%	60%	0.10%	0.10%
(4)	60%	100%	0.10%	0.10%

HEALTHY	HEAVY
100	100
100	100

IDENTIFICATION #	PORTFOLIO	ELEVATION
MM #2	40013.00-0270316.0000	27.92
MM #A	40000.00-0270216.0000	40.00

NOTE: NEW MEMBERS WILL BE INVITED TO JOIN THE ASSOCIATION UNDER CONSTRUCTION IN ORDER TO MAINTAIN HORIZONTAL AND VERTICAL CONTINITY.



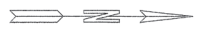
### VERTICAL EXPANSION

FOR  
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
c/o Public Law Center, 1000 Columbia Ave.

HOLDEN, HARRIS, NEWBERRY & TRIMBLE, INC.  
CONSULTING ENGINEERS

(12) 2017.1.1 (12) 2017.1.1 (12) 2017.1.1	2017.1.1 (12) 2017.1.1	2017.1.1 (12) 2017.1.1
2017.1.1 (12) 2017.1.1	2017.1.1 (12) 2017.1.1	2017.1.1 (12) 2017.1.1

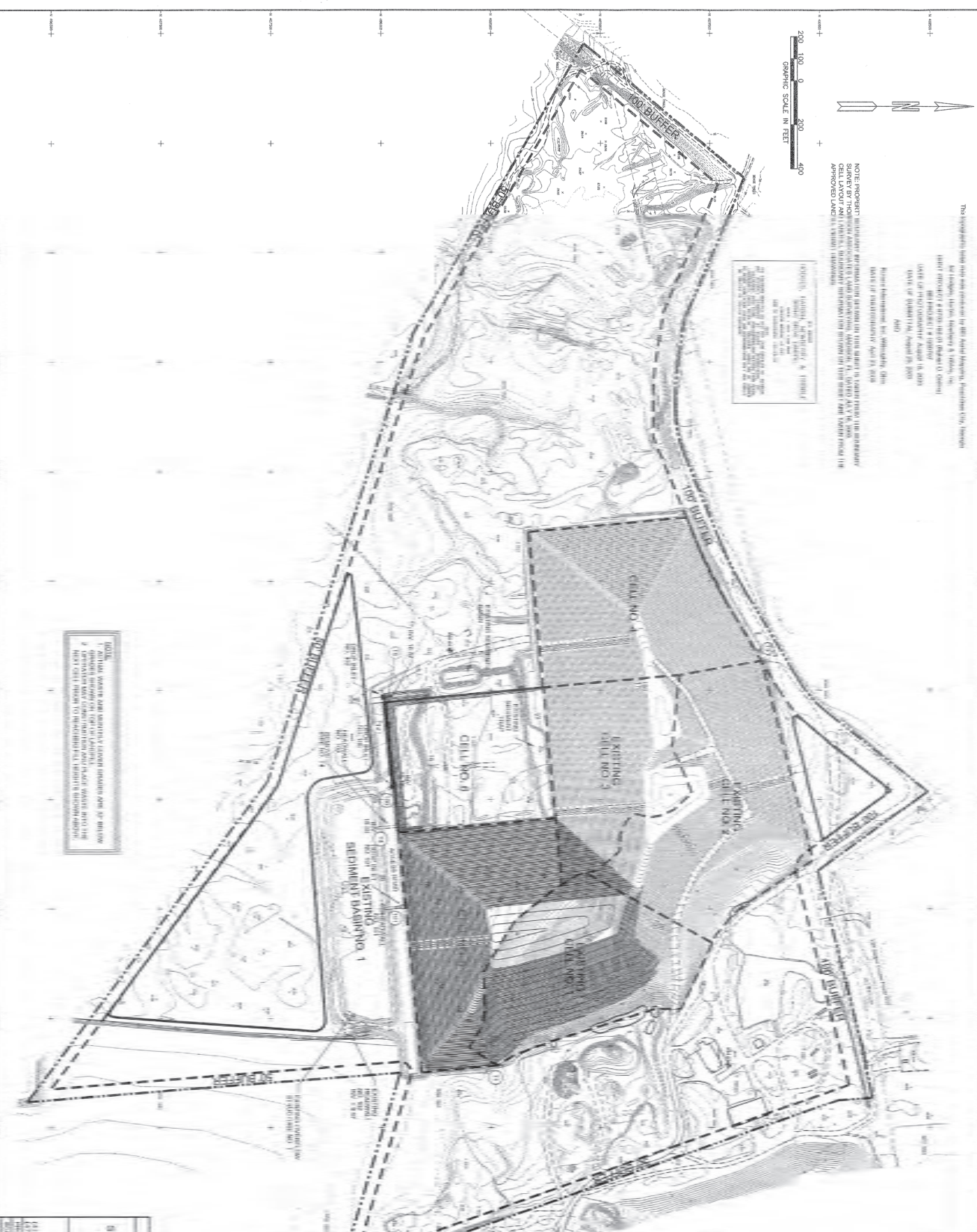




200 100 0 200 400  
GRAPHIC SCALE IN FEET

NOTE: PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT).

PROJECT: VERTICAL EXPANSION  
SHEET: 12 OF 23  
DATE: 10/15/2015  
DRAWN BY: J. HARRIS  
CHECKED BY: J. HARRIS  
APPROVED BY: J. HARRIS



NOTE: THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT).

CELL NO.	AREA	COORDINATE	ANTENNA	HEIGHT
1	400	400	100	100
2	400	400	100	100
3	400	400	100	100
4	400	400	100	100
5	400	400	100	100

CELL NO.	AREA	COORDINATE	ANTENNA	HEIGHT
1	400	400	100	100
2	400	400	100	100
3	400	400	100	100
4	400	400	100	100
5	400	400	100	100

NOTE: THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT). THE PROPOSED CELL LAYOUT AND ANTENNA PLACEMENT ARE SUBJECT TO THE APPROVAL OF THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT).



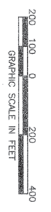
VERTICAL EXPANSION  
SHEPHERD GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
CONSULTING ENGINEER  
J. HARRIS, ENGINEER  
10/15/2015  
SHEET 12 OF 23



This project has been prepared by the following individuals:

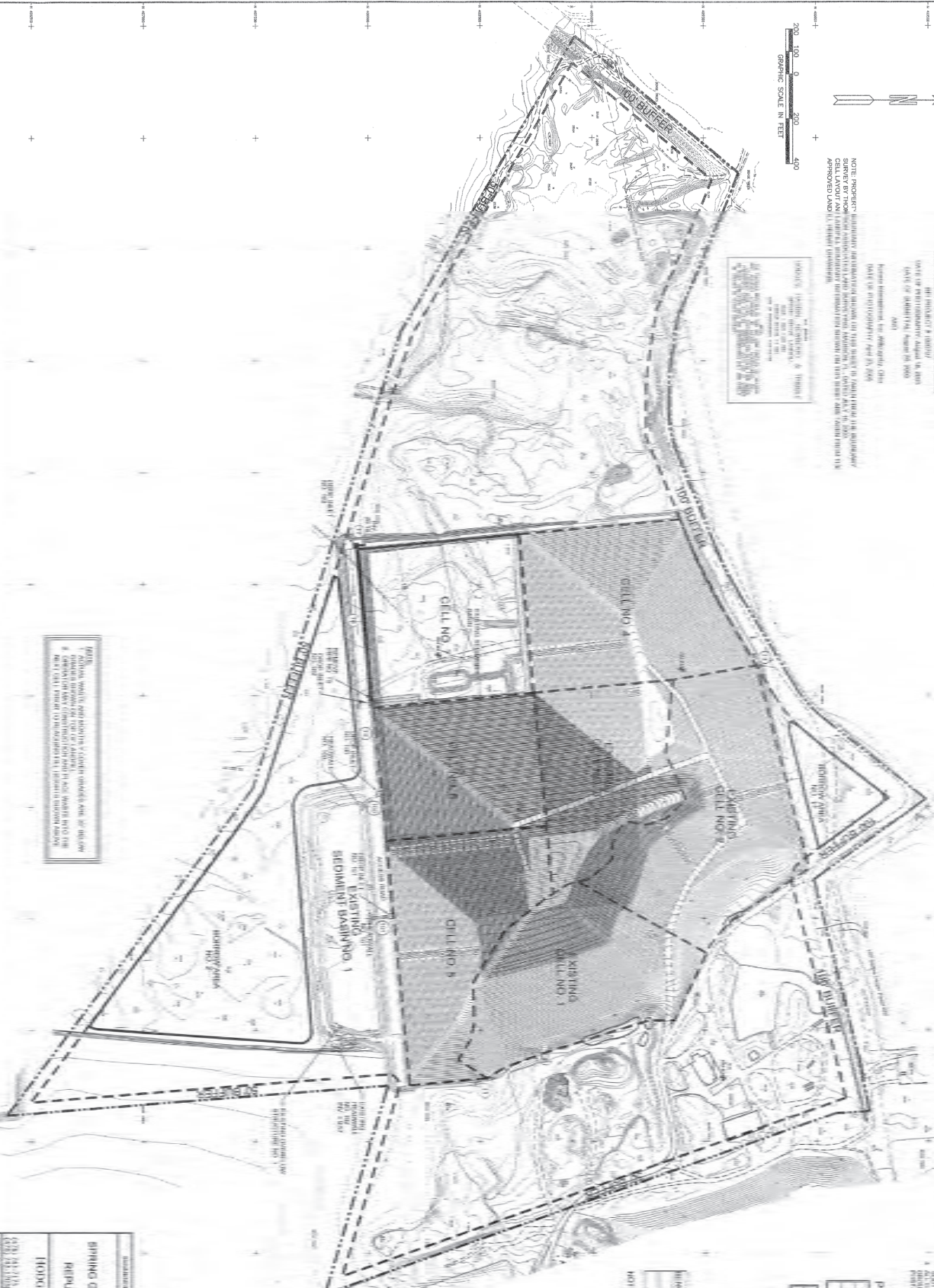
Project Manager: [Name]  
 Designer: [Name]  
 Checker: [Name]  
 Date: [Date]

NOTE: PROPERTY LINES AND ADJACENT AREAS ARE NOT TO BE CONSIDERED AS A BASIS FOR ANY OTHER PROJECTS. THE DESIGNER ASSUMES NO LIABILITY FOR ANY OTHER PROJECTS. THE DESIGNER ASSUMES NO LIABILITY FOR ANY OTHER PROJECTS. THE DESIGNER ASSUMES NO LIABILITY FOR ANY OTHER PROJECTS.



**PROPOSED DRAINAGE STRUCTURES**

STRUCTURE NO.	TYPE	DIAMETER (IN)	LENGTH (FT)	DEPTH (FT)	AREA (SQ FT)
1	MANHOLE	48"	10'	4'	1,536
2	MANHOLE	48"	10'	4'	1,536
3	MANHOLE	48"	10'	4'	1,536
4	MANHOLE	48"	10'	4'	1,536
5	MANHOLE	48"	10'	4'	1,536
6	MANHOLE	48"	10'	4'	1,536
7	MANHOLE	48"	10'	4'	1,536
8	MANHOLE	48"	10'	4'	1,536
9	MANHOLE	48"	10'	4'	1,536
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12	MANHOLE	48"	10'	4'	1,536
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96	MANHOLE	48"	10'	4'	1,536
97	MANHOLE	48"	10'	4'	1,536
98	MANHOLE	48"	10'	4'	1,536
99	MANHOLE	48"	10'	4'	1,536
100	MANHOLE	48"	10'	4'	1,536



NOTE: THE PROPOSED DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR DRAINAGE STRUCTURES. THE PROPOSED DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR DRAINAGE STRUCTURES. THE PROPOSED DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR DRAINAGE STRUCTURES.

**VERTICAL EXPANSION**

**BRINGING ON-TO ENVIRONMENTAL INDUSTRIAL LANDFILL**

**REPAIRING SERVICES OF SOUTH CAROLINA, LLC**

**CONSULTING ENGINEER**

**JOHN H. HARRIS, PE, CIVIL ENGINEER**

**JOHN H. HARRIS & ASSOCIATES, INC.**

**1000 N. W. 10TH AVE., SUITE 100, MIAMI, FL 33136**

**TEL: (305) 571-1111, FAX: (305) 571-1112**

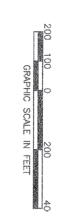
**WWW.JHHARRIS.COM**

**DATE: 01/15/2010**

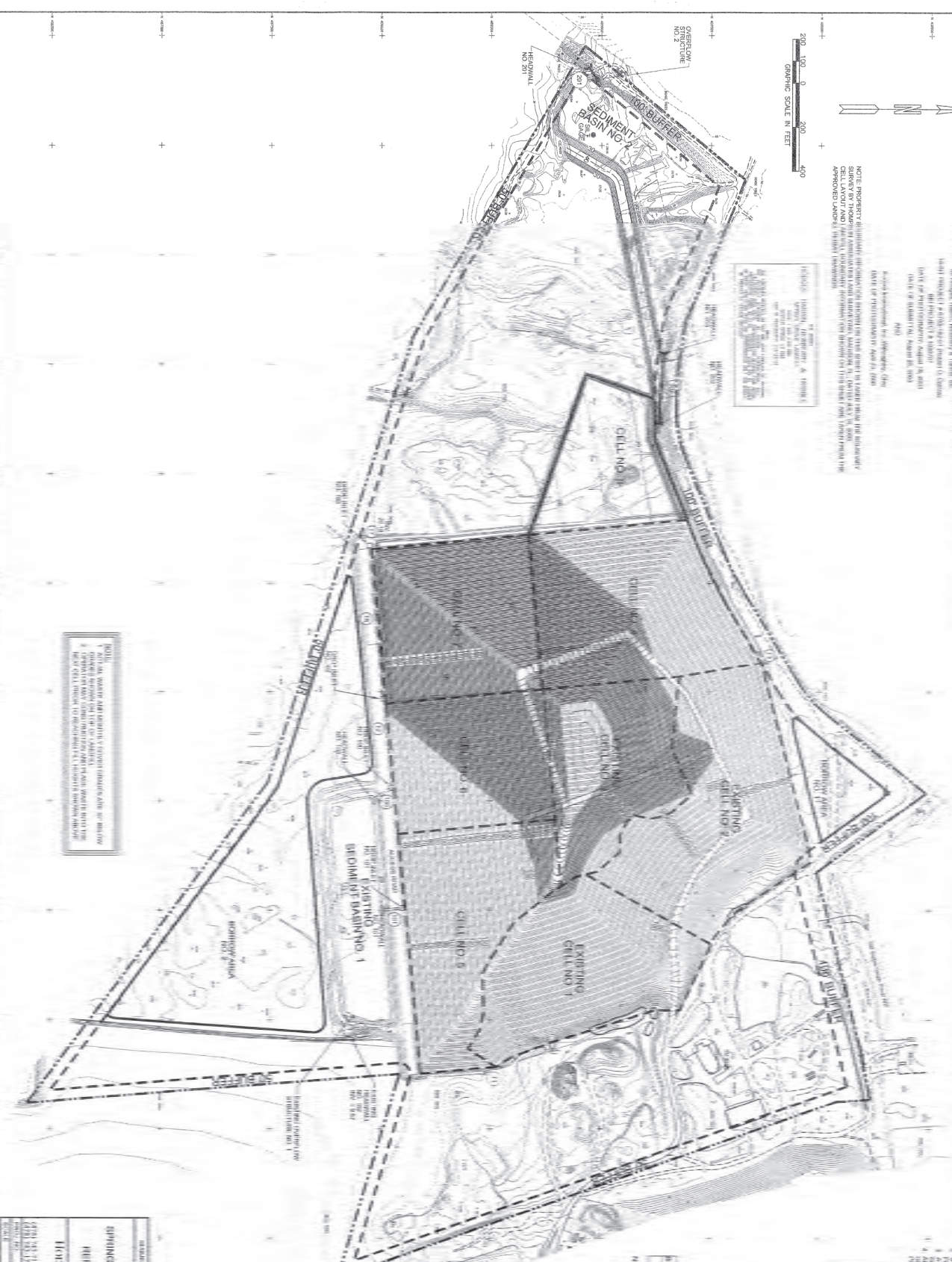
**PROJECT: 1000 N. W. 10TH AVE., SUITE 100, MIAMI, FL 33136**

**SHEET: 13 OF 23**





The description above may not accurately fit your specific business. Please contact your insurance broker for more information. For example, if you are a sole proprietor, you may not need a separate business liability policy. If you are a partnership, you may not need a separate business liability policy. If you are a corporation, you may not need a separate business liability policy. If you are a limited liability company (LLC), you may not need a separate business liability policy. If you are a trust, you may not need a separate business liability policy. If you are a partnership, you may not need a separate business liability policy. If you are a corporation, you may not need a separate business liability policy. If you are a limited liability company (LLC), you may not need a separate business liability policy. If you are a trust, you may not need a separate business liability policy.



**NOTE**  
1. ALL THE WOMEN ABUSE LABORERS' COOPERATIVES ARE AN INDICATOR OF THE DEGREE OF THE LEVEL OF CORRUPTION IN A COUNTRY. IN MANY COUNTRIES, THE LABOR COOPERS HAVE TO BEAT THE POLICE OFFICER TO RECOVER THE WAGES OF THE WORKERS.

TYPE NO.	DATE	EXHIBIT	REVIEW	REMARKS
001	001	001	0.0%	0.0%
002	002	002	0.0%	0.0%

FINANCIAL YEAR	REVENUE
2014	24.00
2015	23.00
2016	22.00

ANALYTICAL INFORMATION	ANALYST	LABORATORY
IMP. #3	400100 6/10/23/00 19 00 10	ALAB

DEPARTMENT OF THE ARMY, PUBLISHED FOR THE U.S. GOVERNMENT PRINTING OFFICE: 1964 O 500 800  
VERTICAL EXPANSION  
SLIPPING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL

**HOBBS, LARSEN, NEWHERRY & THOMAS, INC.**

DATE	INITIALS	TIME	IN
01/20/2011			

SHEET 14 OF 23















The boundary lines are not intended to be a legal description. The boundary lines are shown for informational purposes only. The boundary lines are not intended to be a legal description.

NOTE: PROPERTY BOUNDARY INFORMATION IS BASED ON THE LATEST AVAILABLE AERIAL PHOTOGRAPHY. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION.

NOTE: PROPERTY BOUNDARY INFORMATION IS BASED ON THE LATEST AVAILABLE AERIAL PHOTOGRAPHY. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION.

NOTE: PROPERTY BOUNDARY INFORMATION IS BASED ON THE LATEST AVAILABLE AERIAL PHOTOGRAPHY. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION.

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GRAPHIC SCALE IN FEET



NOTE:  
1. ALL DATA WERE OBTAINED FROM AERIAL PHOTOGRAPHY AND ARE NOT INTENDED TO BE A LEGAL DESCRIPTION. THE BOUNDARY LINES ARE NOT INTENDED TO BE A LEGAL DESCRIPTION.  
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VERTICAL EXPANSION  
BIRNING GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
REPAIRING SERVICES OF NORTH CAROLINA, LLC  
CONSULTING ENGINEER

HODGES HARRIS, NANCY & TRUETT, INC.  
CONSULTING ENGINEER

DATE: 10/1/2014  
DRAWN BY: J. HARRIS  
CHECKED BY: J. HARRIS  
DATE: 10/1/2014  
SHEET 16 OF 20



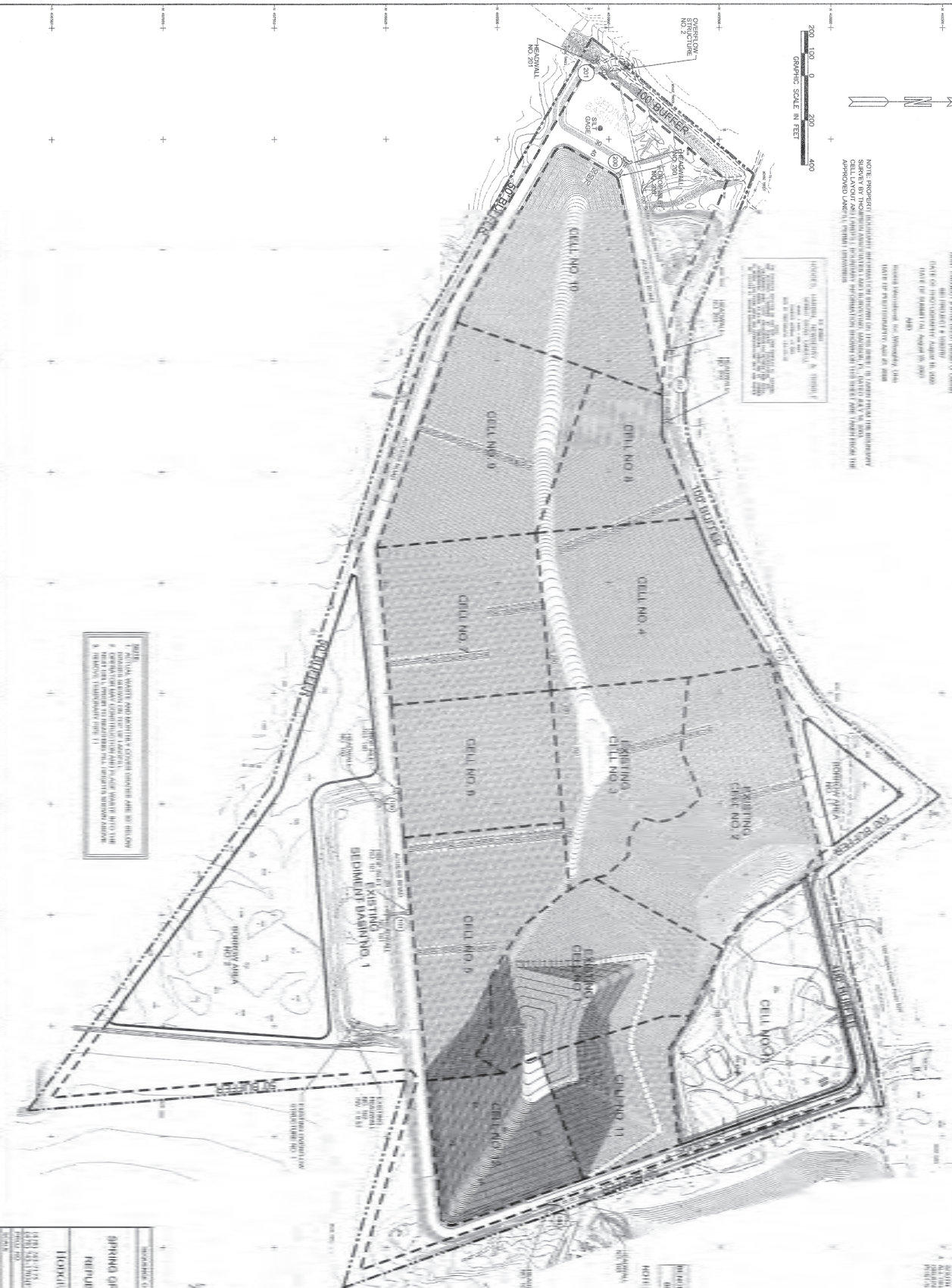
1" = 100' 0" 200' 400' GRAPHIC SCALE IN FEET



This map was prepared by the United States Geological Survey, Reston, Virginia, for the National Map Accuracy Act of 1966. It is based on the 1966 edition of the National Map Accuracy Act of 1966. The map is not to be used for navigation or other purposes without the approval of the United States Geological Survey. The map is not to be used for navigation or other purposes without the approval of the United States Geological Survey.

NOTES: 1. ALL DATA WERE OBTAINED FROM THE 1966 EDITION OF THE NATIONAL MAP Accuracy Act of 1966. 2. THE MAP IS NOT TO BE USED FOR NAVIGATION OR OTHER PURPOSES WITHOUT THE APPROVAL OF THE UNITED STATES GEOLOGICAL SURVEY. 3. THE MAP IS NOT TO BE USED FOR NAVIGATION OR OTHER PURPOSES WITHOUT THE APPROVAL OF THE UNITED STATES GEOLOGICAL SURVEY.

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NO.	DESCRIPTION	DATE	ELEVATION
1	CELL NO. 1	1966	41.00
2	CELL NO. 2	1966	41.00
3	CELL NO. 3	1966	41.00
4	CELL NO. 4	1966	41.00
5	CELL NO. 5	1966	41.00
6	CELL NO. 6	1966	41.00
7	CELL NO. 7	1966	41.00
8	CELL NO. 8	1966	41.00
9	CELL NO. 9	1966	41.00
10	CELL NO. 10	1966	41.00
11	CELL NO. 11	1966	41.00

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VERTICAL EXPANSION  
BIRNINO GROVE INDUSTRIAL LANDFILL  
REPUBLIC SERVICES OF SOUTH CAROLINA, LLC  
CONSULTING ENGINEERS  
HOKUS, HARRIS, NIMMO & TOWNE, INC.  
440 N. 1ST STREET, SUITE 100  
NORFOLK, VIRGINIA 23510  
PHONE NO. 757-261-1111  
FAX NO. 757-261-1112  
SHEET 19 OF 23

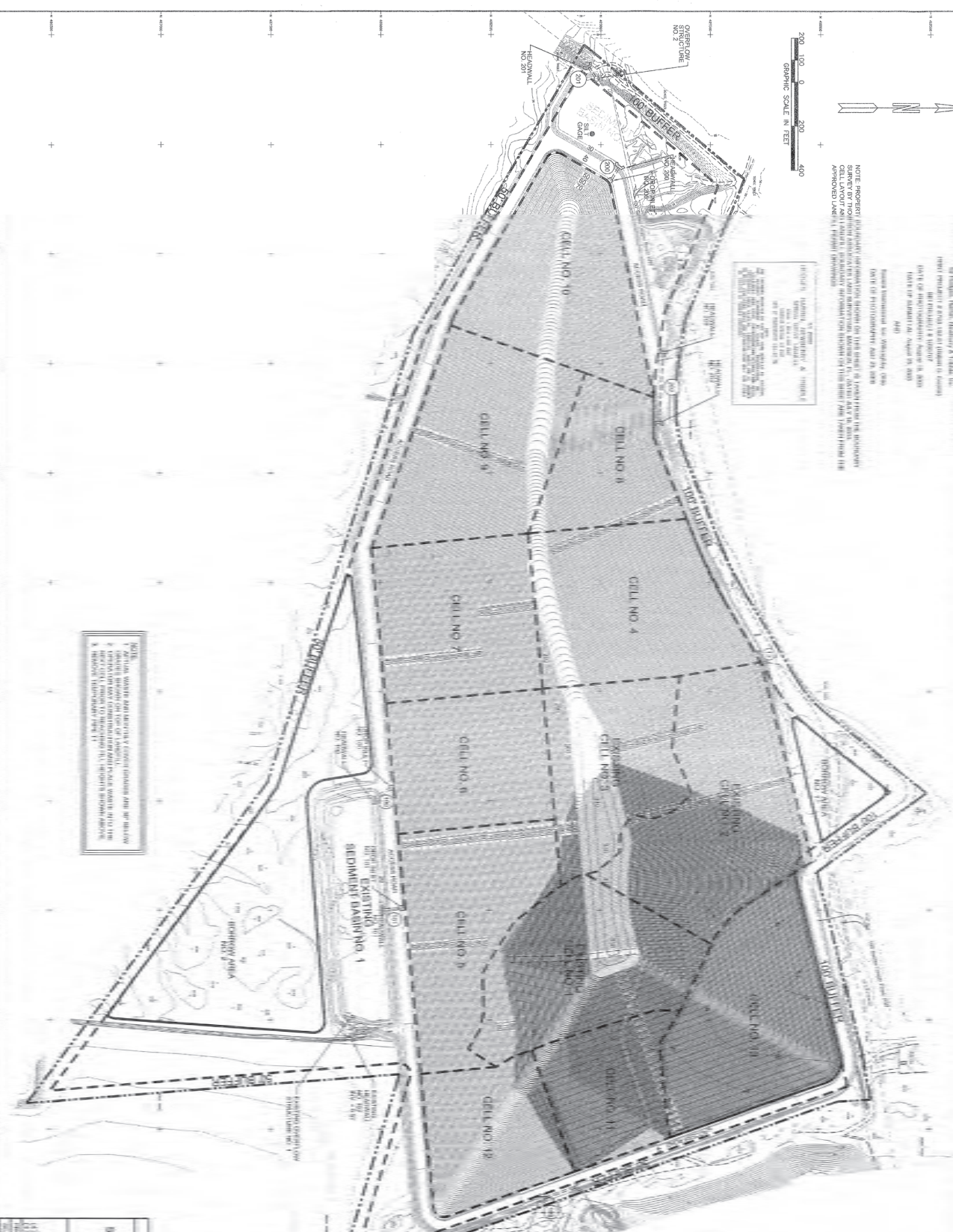


1"=200' 0" 200' 400' GRAPHIC SCALE IN FEET



NOTE: THIS PLAN WAS PREPARED BY THE DESIGNER FOR THE PURPOSE OF ILLUSTRATING THE PROPOSED CELL LAYOUT AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE DESIGNER ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

1. DESIGNER'S NAME, ADDRESS, AND PHONE NUMBER  
2. PROJECT NAME  
3. SHEET NUMBER  
4. DATE



NOTE: 1. ALL CELL WALLS AND BATTERIES SHALL BE CONSTRUCTED AND SET BACK 5 FEET FROM THE EXISTING PROPERTY LINE. 2. ALL CELL WALLS SHALL BE CONSTRUCTED WITH A MINIMUM OF 12" REINFORCED CONCRETE. 3. ALL CELL WALLS SHALL BE CONSTRUCTED WITH A MINIMUM OF 12" REINFORCED CONCRETE.

CELL NO.	CELL NAME	CELL AREA (SQ. FT.)	CELL VOLUME (CU. YD.)
1	CELL NO. 1	1,000	100
2	CELL NO. 2	1,000	100
3	CELL NO. 3	1,000	100
4	CELL NO. 4	1,000	100
5	CELL NO. 5	1,000	100
6	CELL NO. 6	1,000	100
7	CELL NO. 7	1,000	100
8	CELL NO. 8	1,000	100
9	CELL NO. 9	1,000	100
10	CELL NO. 10	1,000	100
11	CELL NO. 11	1,000	100
12	CELL NO. 12	1,000	100

NOTE: ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.



**VERTICAL EXPANSION**  
BRUNNEN GROVE ENVIRONMENTAL INDUSTRIAL LANDFILL  
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CONSULTING ENGINEERS  
444 N. MAIN STREET, SUITE 200  
COLUMBIA, SC 29201  
TEL: 803.733.1111  
FAX: 803.733.1112  
WWW.HARRISHARRISNIMMO.COM

1"=200' 0" 200' 400' GRAPHIC SCALE IN FEET





