



Date: August 14, 2020
To: Commissioners and Mayor Holden
From: Chris Clemmons, Public Services Director
CC.
Re: Request to Add Item to Agenda of August 18, 2020

The Town previously entered into a Multi-Jurisdictional Disaster Debris Management contract with Southern Disaster Recovery in 2019. It now appears that local landfills are nearing capacity as shown by the Brunswick County Landfill Disposal Efficiency Report (attached). The contractor may be required to haul debris for longer distances than covered by the terms of the original contract.

The Town will need to amend the original contract to accommodate the longer distance. The proposed amendment is attached.

Staff is requesting that the Board add Discussion and Possible Approval of Amendment to the Southern Disaster Recovery Contract to the agenda.

A horizontal bar with a dark red background and a light pink segment on the right side.

Landfill Disposal Efficiency Report

A horizontal bar with three segments: green, orange, and blue.

Brunswick County, NC

February 26, 2020

SUBMITTED BY:

Dewberry Engineers Inc.

2610 Wycliff Road

Suite 410

Raleigh, NC 27607

NC License No.: F-0929

SUBMITTED TO:

Brunswick County

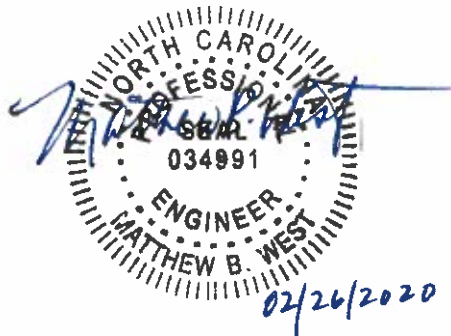
P.O. Box 279

Bolivia, NC 28422

Landfill Disposal Efficiency Report

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Drawing 3	Comparison of July 17, 2019 Survey to Proposed Final Grades (Phase 6A, 6B, and 6C)

1. INTRODUCTION

Dewberry Engineers Inc. (Dewberry) has performed a landfill disposal efficiency report for the Brunswick County C&D Debris Landfill (landfill) which is currently operational. The facility permit number issued by the NC Division of Waste Management for Phases 1-6 is No. 10-07. The facility received a Life of Site permit November 1, 2019. This landfill disposal efficiency report evaluates the period from July 18, 2018 to July 17, 2019.

A survey was performed on July 17, 2019 for the Phases 6A and 6B areas. The Phases 6A and 6B areas have been receiving C&D debris since January 2005.

A composite survey was developed by combining the July 17, 2019 survey of these areas with the previous survey. This survey along with the survey dated July 18, 2018 and the final permitted grades for Phases 6A, 6B, and 6C comprise the data set analyzed in this report.

2. BACKGROUND AND PURPOSE

The Municipal Solid Waste portion of the landfill was closed on December 31, 1997 (Permit No. 10-04). Phase 1 of the C&D Debris Landfill was initially permitted, and subsequent phases were permitted as additional capacity was required. The capacity provided by each phase is as follows:

Phase 1 and Phase 1-New	223,500 cy
Phase 3	53,100 cy
Phase 4	133,700 cy
Phase 5	147,000 cy
Phases 6A, 6B, and 6C	<u>588,800 cy</u>
Total	1,146,100 cy

This report includes waste placed into Phase 6A and Phase 6B from July 18, 2018 to July 17, 2019 to determine the landfill efficiency for this period.

Brunswick County is currently diverting a portion of the C&D debris waste stream through the MSW Transfer Station through a contract with Green Forever Life (GFL). This operation allows the County to divert a portion of the C&D waste stream in order to extend the life of the landfill. C&D waste diversion can continue in this manner as long as the landfill is operational and diversion is permitted by the NC Division of Waste Management.

The purpose of this report is to:

- Estimate the change in total occupied airspace.
- Estimate the total remaining airspace (and the total remaining useable airspace) volume based on the design capacity.
- Estimate the remaining life expectancy of the landfill.

3. DISCUSSION

The July 17, 2019 topographic survey for the landfill is shown on Drawing 1. This survey is a composite survey as noted on Drawing 1.

A three-dimensional comparison of the July 17, 2019 and the final permitted grades for Phases 6A, 6B, and 6C (Drawing 3) provides an update of the landfill construction and remaining airspace. Side slopes of 4:1 were not achieved during FY 2018-2019. It is important to note that the County should continue to be diligent in the remaining construction of the landfill to provide 4:1 slopes and maximize the use of the remaining useable airspace.

Based on the July 17, 2019 survey the landfill has reached an elevation of approximately 122-128 feet. The surface area of the highest elevations is approximately 350-feet by 225-feet. The final permitted grade of the landfill is approximately 138 feet with a surface area of that currently achieved. As area 6C is developed, it may be possible to raise the final grades to the permitted elevations. However, we recommend that the airspace that has been lost be recaptured to maintain useable airspace. It is understood that actions will be taken to recapture this airspace and correct slope issues.

Additionally, Drawing 3 notes that observed differential settlement is approximately one foot or less. As noted in previous Landfill Disposal Efficiency Reports, the differential settlement is consistent with what has been observed over the past three to four years. It is expected that similar differential settlement will continue to be observed in the future as construction of the landfill is completed. The County should continue to monitor differential settlement closely until the landfill reaches ultimate capacity.

3.1 C&D Debris Waste Stream Summary

The landfill tonnage reports for July 1, 2018 through June 30, 2019 are included in Appendix A. The categories of C&D debris, trailers, and asbestos are disposed into the landfill. The total C&D debris disposed into the landfill for FY 2018-2019 is estimated to be 21,942 tons. For the Landfill Disposal Efficiency Report period of July 18, 2018 through July 17, 2019 the total C&D debris disposed into the landfill is assumed to be 21,942 tons.

The total C&D debris received during the fiscal year of for July 1, 2018 through June 30, 2019 was 63,967 tons. Of this total, 21,942 tons of C&D debris was disposed into the landfill and 42,025 tons of C&D debris was transferred to a permitted facility off-site. This represents a 78% increase in C&D debris received at the landfill, a 52% increase in C&D debris disposed into the landfill, and a 95% increase in the C&D debris transferred to a permitted facility off-site compared to the fiscal year July 1, 2017 through June 30, 2018.

3.2 Remaining Airspace

To determine the amount of airspace used, surfaces were developed using the July 18, 2018 survey and the July 17, 2019 survey. A three-dimensional comparison (Drawing 2) of these surfaces provided the volume of C&D debris and cover placed for the period between the July 18, 2018 survey and the July 17, 2019 survey. The landfill disposal efficiency was calculated using the July 18, 2018 survey and the July 17, 2019 survey.

To determine the remaining volume of the landfill, a surface was developed using the July 17, 2019 survey to compare against the surface developed from the final permitted grades for Phases 6A, 6B, and 6C. A three-dimensional comparison (Drawing 3) provided the remaining airspace in the landfill.

3.2.1 Occupied Airspace

From the comparison of surfaces from the July 18, 2018 survey and the July 17, 2019 survey, the total occupied airspace was 19,374 cubic yards (cy). This equates to approximately 1,615 cy/month fill rate for the period July 18, 2018 to July 17, 2019. This comparison is shown on Drawing 2.

3.2.2 Remaining Airspace

From the comparison of surfaces of the July 17, 2019 survey and the final permitted grades of Phases 6A, 6B, and 6C approximately 171,886 cy of total airspace remains and approximately 101,060 cy of useable airspace remains. This comparison is shown on Drawing 3. The useable airspace remaining is calculated by subtracting the volume of the final cap from the total airspace remaining. The volume of the final cap applies only to the areas that still have airspace remaining. A summary of the remaining airspace (total and useable) denoted by Phases 6A and 6B and Phase 6C is included in Table 1.

**Table 1.
Summary of Remaining Airspace**

Phase	Remaining Total Airspace (cy)	Remaining Useable Airspace (cy)
6A and 6B	65,204	24,243
6C	106,682	76,817
6A, 6B, and 6C (Total)	171,886	101,060

3.3 Landfill Disposal Efficiency

The compaction rate for the period between July 18, 2018 and July 17, 2019 is determined by approximating the weight (pounds) of C&D debris per volume (cubic yards) of airspace occupied by C&D debris and weekly cover. For the period between July 18, 2018 and July 17, 2019 21,942 tons of C&D debris disposed into the landfill will be used. From the comparison of the July 18, 2018 and July 17, 2019 surveys, it was determined 19,374 cy of airspace has been used.

The compaction rate for the period between July 18, 2018 and July 17, 2019 can then be determined as follows:

$$\text{Compaction Rate} = (21,942 \text{ tons} / 19,374 \text{ cy}) * 2,000 \text{ lbs/ton} = 2,265 \text{ lbs/cy}$$

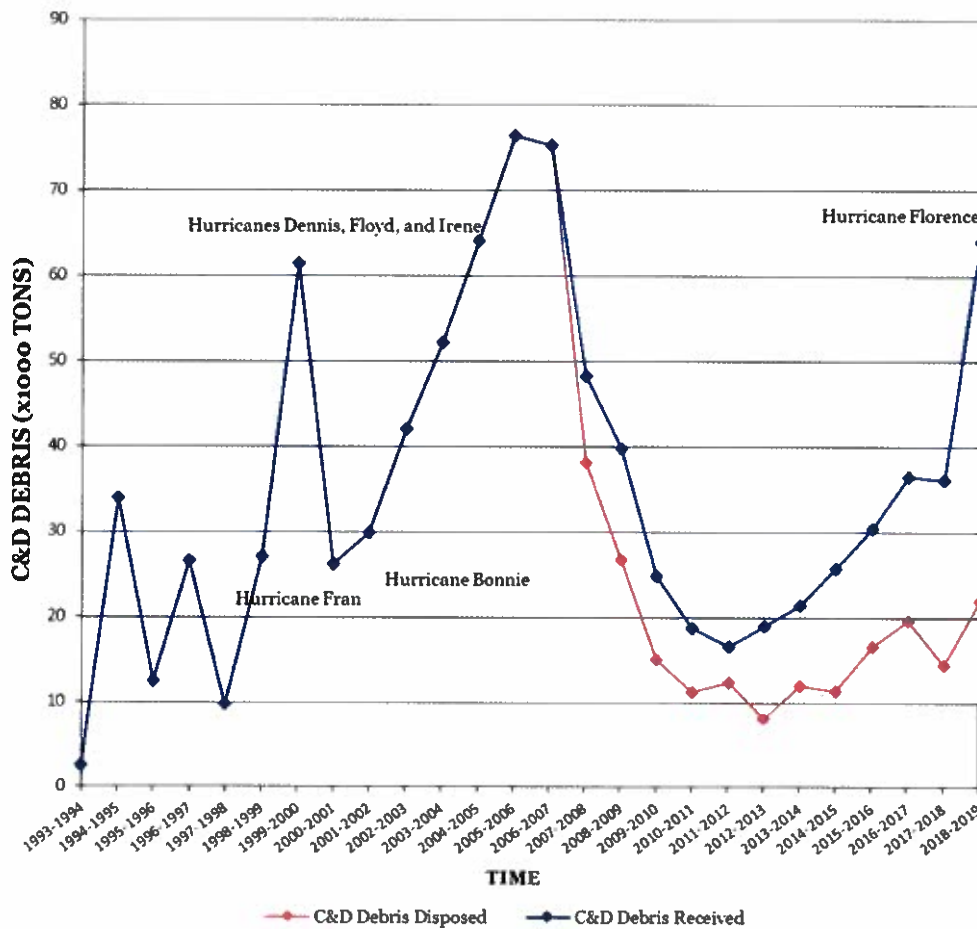
The efficiency study analysis providing data used and assumptions made is included in Appendix B.

The compaction rate calculated for the period between July 18, 2018 and July 17, 2019 is significantly higher than previously observed. This may be attributed to a higher rate of settlement beneath the operating face of the C&D debris landfill. This should be monitored moving forward to achieve maximum capacity.

3.4 Remaining Landfill Life

Figure 1 is a plot of total C&D debris received at the C&D debris landfill and the total C&D debris disposed into the C&D debris landfill by time period. The amount of C&D debris received and disposed increased roughly 20% each year between 2001-2002 and 2005-2006. However, for 2006-2007 the amount of C&D debris received and disposed remained almost constant. The amount of C&D debris received and disposed declined significantly between 2006-2007 and 2010-2011. It is important to note that the C&D debris waste stream (C&D debris received) has increased approximately 136% between 2011-2012 and 2016-2017. However, between 2016-2017 and 2017-2018 the C&D debris waste stream decreased by 1%. The C&D debris waste stream should be monitored in 2018-2019 to confirm if growth trends may exist. In addition, the C&D debris disposed has decreased approximately 26% between 2016-2017 and 2017-2018. We understand that for 2018-2019 Brunswick County is transferring approximately 75% of the C&D debris waste stream off-site.

Figure 1.
Construction and Demolition Debris Tonnage



Note: All C&D debris received was disposed in the landfill prior to FY 2007-2008. Since FY 2007-2008 a portion of the C&D debris received has been diverted to another permitted facility.

Table 2 provides four different scenarios for C&D debris disposal and a projection of the remaining useable airspace in the landfill. A compaction rate of 1,100 lbs/cy and C&D debris disposal rate increasing at a rate 10% based on the total C&D debris received during FY 2017-2018 has been assumed.

Table 2.
Projection of Remaining Capacity in C&D Debris Landfill

Fiscal Year*	25% Waste Stream Diversion (cy)	50% Waste Stream Diversion (cy)	75% Waste Stream Diversion (cy)
7/1/2020	5,149	37,133	69,117
7/1/2021	-	-	33,935
7/1/2022	-	-	-

* All projections assume annual growth of 10% for the C&D debris waste stream. Values denote remaining capacity at the beginning of the Fiscal Year.

The remaining useable airspace in the C&D debris landfill is approximately 101,060 cy. It is estimated that the C&D debris landfill will likely reach its ultimate capacity sometime in early-2020 if the C&D debris waste stream continues to grow at approximately 10% per year and no C&D debris is transferred. The County currently has an operation to divert a portion of the C&D debris waste stream. If 25% of the C&D debris waste stream is diverted and continues to grow at approximately 10% per year, the landfill will likely reach its ultimate capacity in mid-2020. If as much as 50% of the C&D debris waste stream can be diverted and continues to grow at approximately 10% per year, the landfill will likely reach its ultimate capacity in late-2020. If as much as 75% of the C&D debris waste stream can be diverted and continues to grow at approximately 10% per year, the landfill will likely reach its ultimate capacity in mid-2022. Variables that will affect the remaining capacity of the landfill include the compaction rate, changes (growth or decline) in the C&D debris waste stream, diversion of the C&D debris waste stream, the local building industry, and weather events. Periodic monitoring of the remaining capacity will be key to long-term solid waste planning efforts.

Brunswick County has amended its C&D debris landfill permit to prohibit sources from outside the County from placing waste in the C&D Debris Landfill. The current facility has a Life of Site permit which was received November 1, 2019. The current permit includes the operation of the C&D Debris Landfill and temporary transfer of C&D debris.

Appendix A

C&D Debris Tonnage Report



www.dewberry.com

Materials Report
July 1, 2018 through June 30, 2019

Appendix A
C&D Tonnage Report for July 1, 2018 through June 30, 2019

MATERIAL	TICKETS	TONS
Trailers-Count (4.5 Tons/Ticket)	29.00	130.50
C&D Debris	6,623.00	14,997.10
Asbestos	21.00	52.83
Shingles - Landfilled	2,856.00	7,991.15
Shingles - Recycled - not accounted for in total C&D Received	48.00	929.59
C&D Debris Transferred Off-site through Transfer Station	21,013.00	42,025.39
	66,367.00	196,592.06
 TOTAL C&D LANDFILLED *		21,941.99
TOTAL C&D TRANSFERRED OUT		42,025.39
TOTAL C&D RECEIVED		<u>63,967.38</u>

* Estimated 400 tons of shingles were on the pad at the end of FY2018. Estimated 700 tons are currently on the pad waiting to be recycled. 300 tons have been deducted from the C&D landfilled and added to

Appendix B

Efficiency Study Analysis



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Appendix B
Brunswick County Landfill Disposal Efficiency Analysis
Construction and Demolition Debris
Period: July 18, 2018 - July 17, 2019
Landfill Disposal Efficiency Analysis

	Total Received (Tons)	Hauled (Tons)	Total Landfilled (Tons)	Tons Landfilled per Month	% Hauled
FY 17-18	63,967	42,025	21,942	1,829	66%

July 18, 2018 - July 17, 2019 (Period evaluated for Landfill Disposal Efficiency Analysis)

12.0 Number of Months Considered for Efficiency Analysis
 Assume 12 month period using FY 16-17 Tonnages

19,375 Total CY Landfilled during Landfill Disposal Efficiency Period (from volume calculations)

1,615 cy/month fill rate

2,265 lbs/cy - LANDFILL DISPOSAL EFFICIENCY for period of July 17, 2017 - July 18, 2018

Drawings



www.dewberry.com

BRUWICK COUNTY
CONSTRUCTION & DEMOLITION DEBRIS LANDFILL
2018 LANDFILL DISPOSAL EFFICIENCY REPORT

1 MARCH 9 11AM 2019
NORTH CAROLINA

NO.	DATE	DESCRIPTION

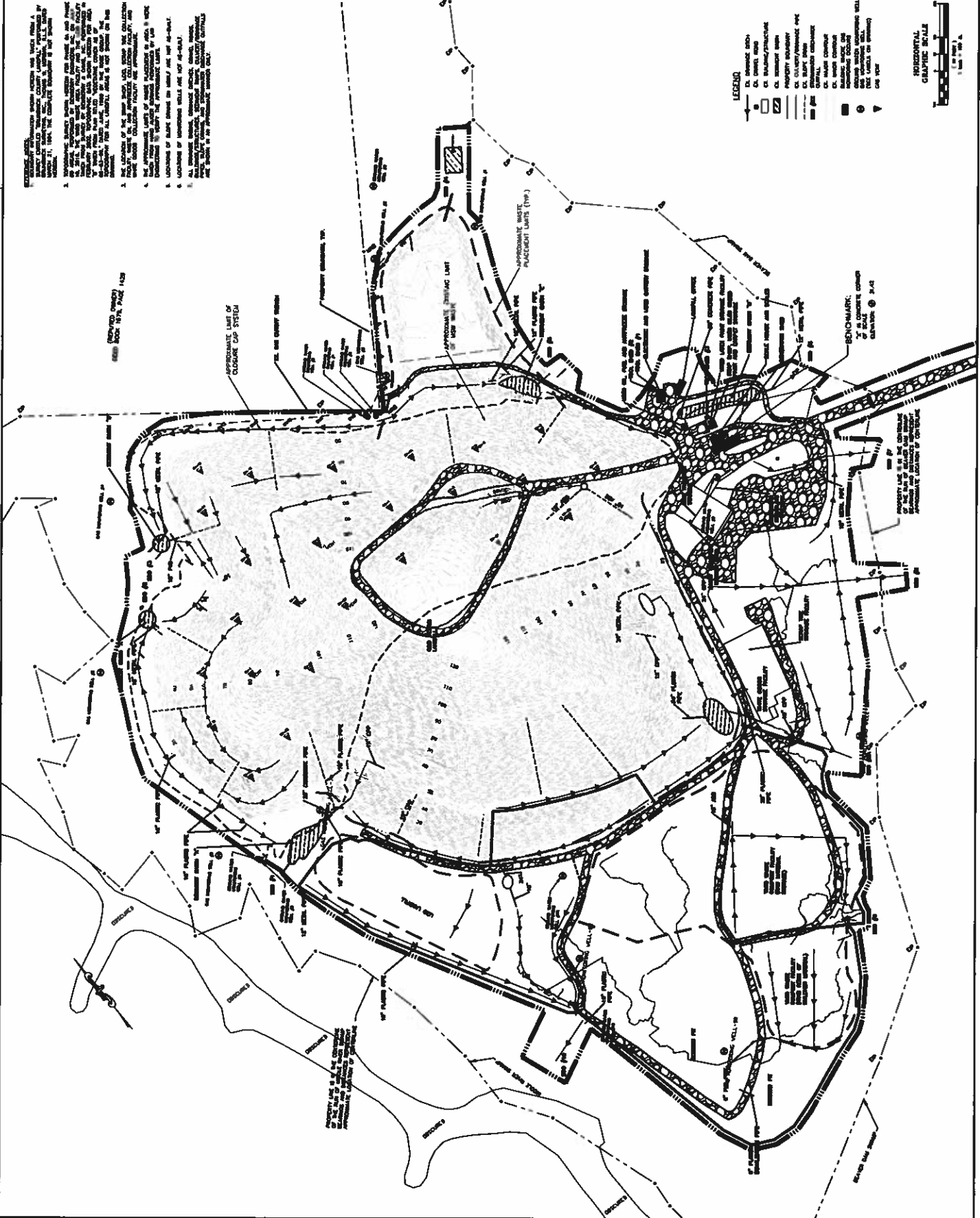
PROJECT NO. 201810033
DATE: 07/17/2019
DRAWN BY: [Redacted]
CHECKED BY: [Redacted]
DESIGNED BY: [Redacted]

TOPOGRAPHIC SURVEY
PERFORMED
JULY 17, 2019

EX 1

1 of 2

1. SURVEYED AREAS SHOWN ON THIS PLAN ARE THE PROPERTIES OF BRUWICK COUNTY LANDFILL, PERFORMED BY DEWBERY ENGINEERS INC. ON 07/17/2019. THE COMPLETE RESULTS OF THIS SURVEY ARE SHOWN ON THE COMPLETE TOPOGRAPHIC SURVEY PLAN.
1. THIS SURVEY WAS CONDUCTED TO PROVIDE A TOPOGRAPHIC SURVEY OF THE BRUWICK COUNTY LANDFILL PROPERTY AND TO IDENTIFY ALL EXISTING AND PROPOSED CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL PLACEMENT LAYERS AND TO PROVIDE A TOPOGRAPHIC SURVEY OF THE BRUWICK COUNTY LANDFILL PROPERTY AND TO IDENTIFY ALL EXISTING AND PROPOSED CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL PLACEMENT LAYERS.
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BENCHMARK
ELEVATION 100.00
DATE 07/17/2019

HORIZONTAL
GRAPHIC SCALE
1" = 200'

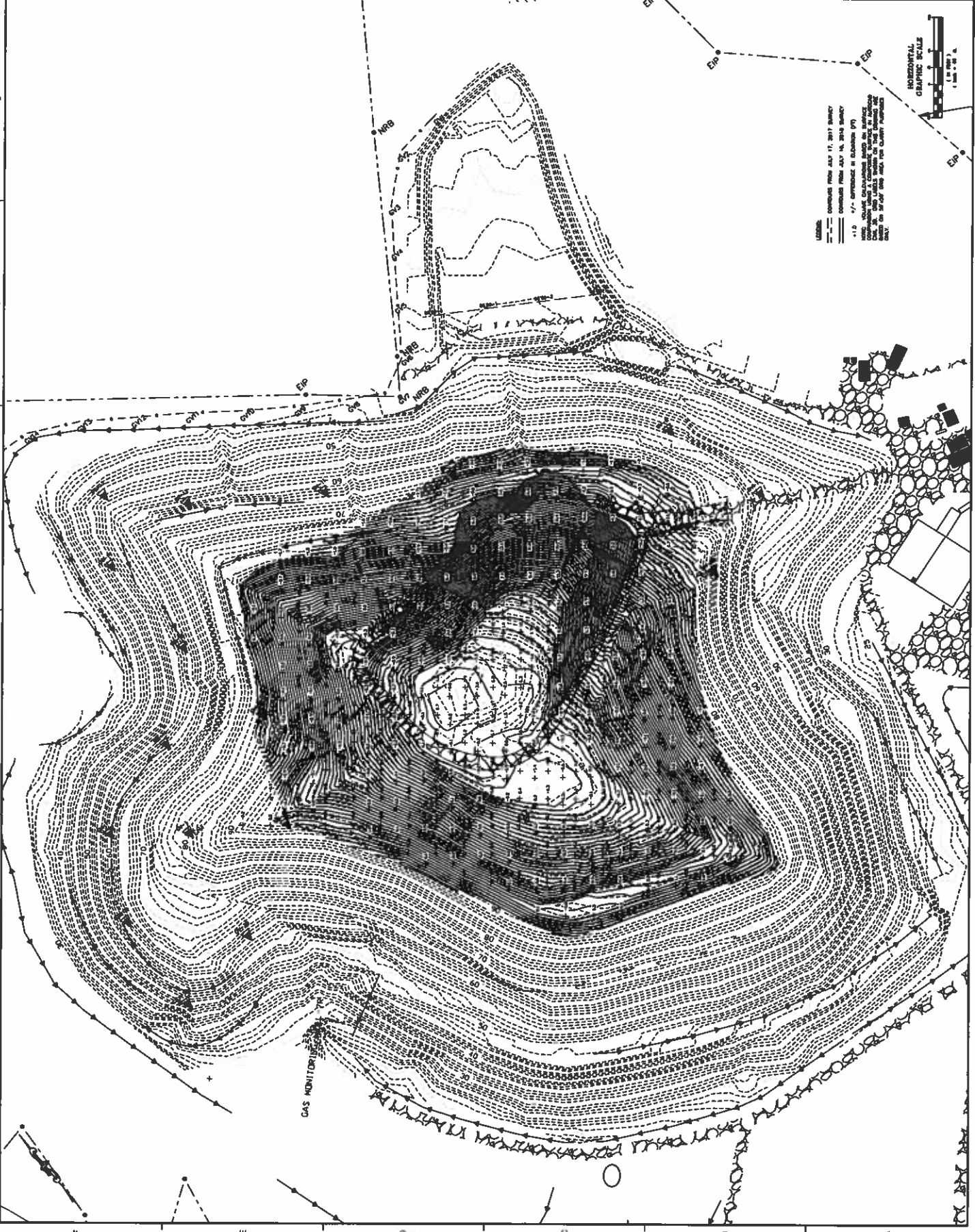
LEGEND
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EXISTING BARRIER WALL (TYPE 50)

NO.	DATE	BY	REVISIONS

DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REVISION NO.
SHEET NO.	TOTAL SHEETS

COMPARISON OF
 JULY 18, 2018 SURVEY
 TO
 JULY 17, 2018 SURVEY
 PROJECT NO. 20110233

EX 2



LEGEND:
 ——— 2018 SURVEY
 - - - 2019 SURVEY
 --- 1/2" CONTOUR INTERVAL IN ELEVATION (FT)
 * 1/2" SPACING BETWEEN GRID LINES
 EIP - EQUIPMENT INSPECTION POINT
 GMM - GAS MONITOR POINT
 O - OTHER POINTS



GAS MONITOR

EIP

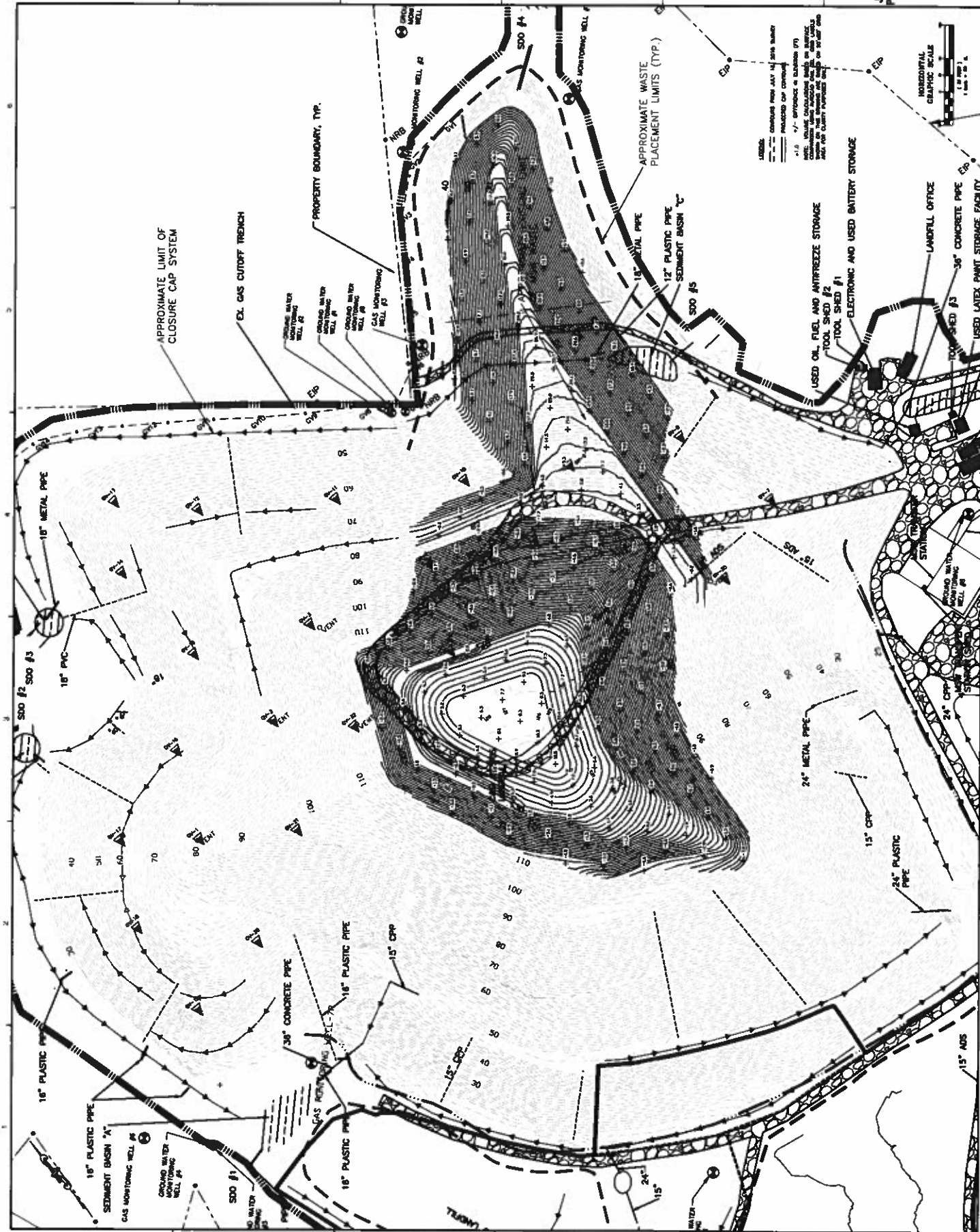
EIP

EIP

NO.	DATE	BY	REVISIONS

DATE: FEBRUARY 3, 2018
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 PROJECT NO: 50118333

COMPARISON OF JULY 17, 2018 SURVEY TO PROPOSED FINAL GRADES (PHASE BA, BB AND BC)



LEGEND:
 --- COMPARISON FROM JULY 17, 2018 SURVEY
 --- PROPOSED FINAL GRADES
 --- PROPERTY BOUNDARY, TYP.
 --- APPROXIMATE WASTE PLACEMENT LIMITS (TYP.)
 --- APPROXIMATE LIMIT OF CLOSURE CAP SYSTEM



STATE OF NORTH CAROLINA

COUNTY OF BRUNSWICK

THIS AMENDMENT TO CONTRACT, made and entered into this __ day of August, 2020, by and between **Southern Disaster Recovery, LLC**, a South Carolina limited liability company, hereinafter referred to as "Contractor"; and the **TOWN OF HOLDEN BEACH**, a duly chartered municipal corporation and body corporate and politic of the County of Brunswick, State of North Carolina, hereinafter referred to as "Activating Entity";

WITNESSETH:

THAT WHEREAS, Contractor and Town previously entered into a Multi-Jurisdictional Disaster Debris Management contract which was executed by Contractor on August 23, 2019, and by Town on August 30, 2019; and

WHEREAS, it now appears that local landfills are nearing capacity as shown by the Brunswick County Landfill Disposal Efficiency Report dated February 26, 2020, attached hereto as Exhibit A and that Contractor may be required to haul debris for longer distances than covered by the terms of the original contract; and

WHEREAS, Contractor and Town have agreed to amend the original contract to set forth the fees for said additional service;

NOW, THEREFORE, Contractor and Town hereby agree:

(1) That **ATTACHMENT 1-FEE SCHEDULE** to the above-referenced contract is hereby amended by adding to Section 10 of said attachment the following additional Haul-Out categories:

40.1-60 miles	\$ 7.45 Per CY	\$ 109.75 Per Ton
60.1-80 miles	\$ 7.95 Per CY	\$ 129.25 Per Ton
80.1-100 miles	\$ 9.25 Per CY	\$ 141.50 Per Ton

(2) Except as specifically set forth herein, all other terms and conditions of the original contract shall remain unchanged and in full force and effect

IN WITNESS WHEREOF, the parties have caused this contract to be executed in duplicate originals on the day and year first above written.

Southern Disaster Recovery, LLC

BY: _____

Town of Holden Beach

By: _____
J. Alan Holden, Mayor

Wittesseth

Certification:

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act.

David W. Hewett, Finance Officer