



Atkins North America, Inc.
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www.atkinsglobal.com/northamerica

April 28, 2015

Ms. Nancy Gaskin
Solid Waste Section
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

RE: Lena Road Landfill, Manatee County
WACS ID No.: SWD-41-44795
Landfill Operation Permit No.: 39884-018-SO/01
Landfill Capacity Report for 2015

Dear Ms. Gaskin:


ATKINS, on behalf of Manatee County, is submitting this information required by Landfill Operation Permit Specific Condition C.13. Method and Sequence of Filling - Subpart e.

Based on the topographic map developed from the March 4, 2015 aerial photograph, and the average solid waste filling rate of 452,000 cubic yards over the last 11 years, we project the landfill has a remaining life of 31 years, and a landfill final closure date of 2046. Enclosed are the following:

- Spreadsheet entitled "Manatee County Lena Road Landfill – Remaining Landfill Life Estimate - 2015" dated March 4, 2015.
- Chart 1 "Plot of Cumulative Landfill Volume Consumed and Tons In place - September 9, 1991- March 4, 2015"
- Stage I, II and III Landfill topography based on the March 4, 2015 photograph
- Aerial Photograph dated March 4, 2015

The survey demonstrates that the above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed the design elevation, and that all other design features and related improvements conform to the Department approved permit drawings.

Sincerely,


Raymundo Castro, P.E. #60036
Project Engineer

Cc: Bryan White, Manatee County, w/ spreadsheet and Chart 1

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Manatee County Lena Road Landfill
REMAINING LANDFILL LIFE ESTIMATE - 2015
MARCH 4, 2014

Landfill	Estimated Design Capacity Cubic Yards	Estimated Volume Used as of February 28, 2014 Cubic Yards	Estimated Volume Used Feb. 28, 2014 to Mar. 4, 2015 Cubic Yards	Estimated Volume Remaining as of March 4, 2015 Cubic Yards
Stage I	13,179,520	13,158,153	Note 2	-
Stage II	12,705,440	-	-	12,705,440
Stage III	6,751,640	5,317,300	314,373	1,119,967
Totals	32,636,600	18,475,453	314,373	13,825,407

Remaining Landfill Life in Years Based on Annualized Filling Rate (See Note 3)
Estimated Landfill Closure Year

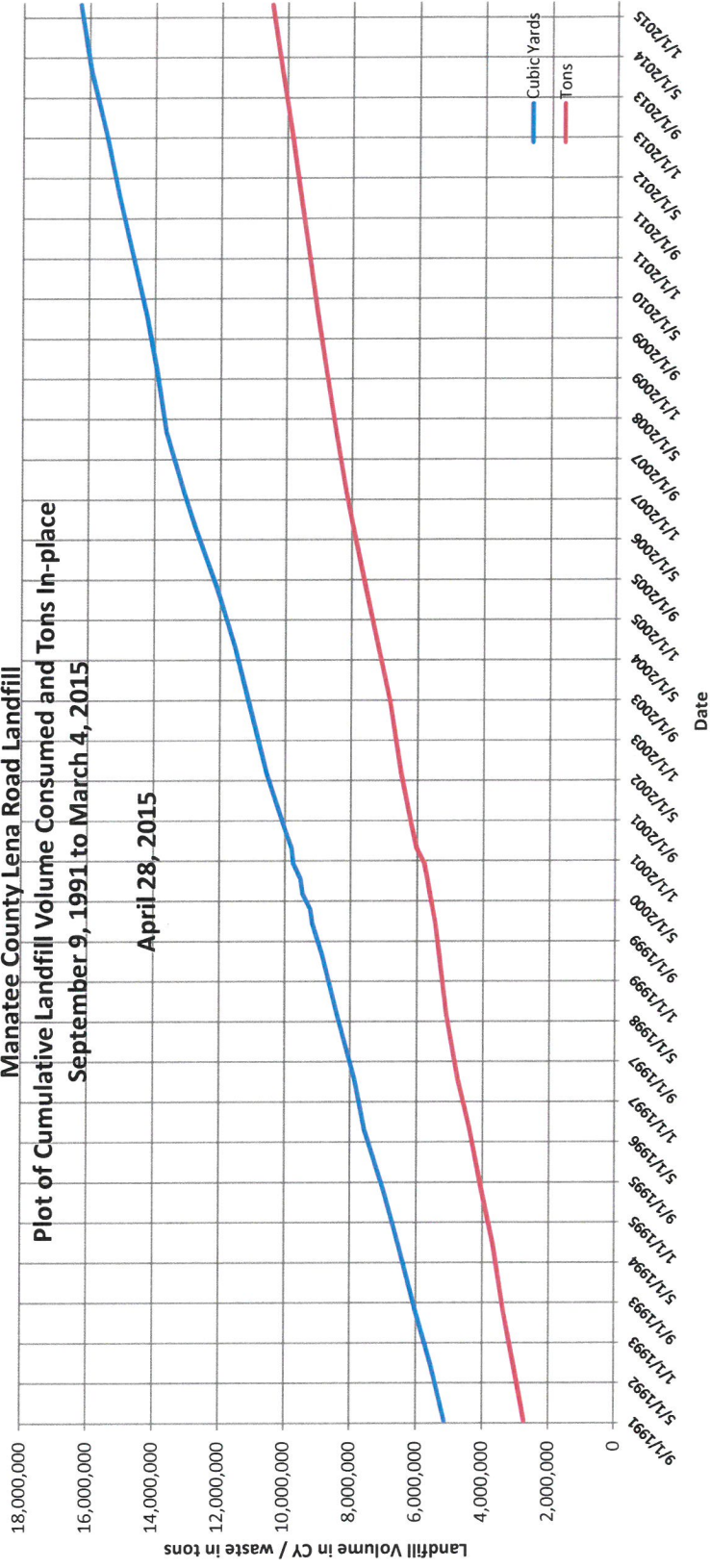
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2046

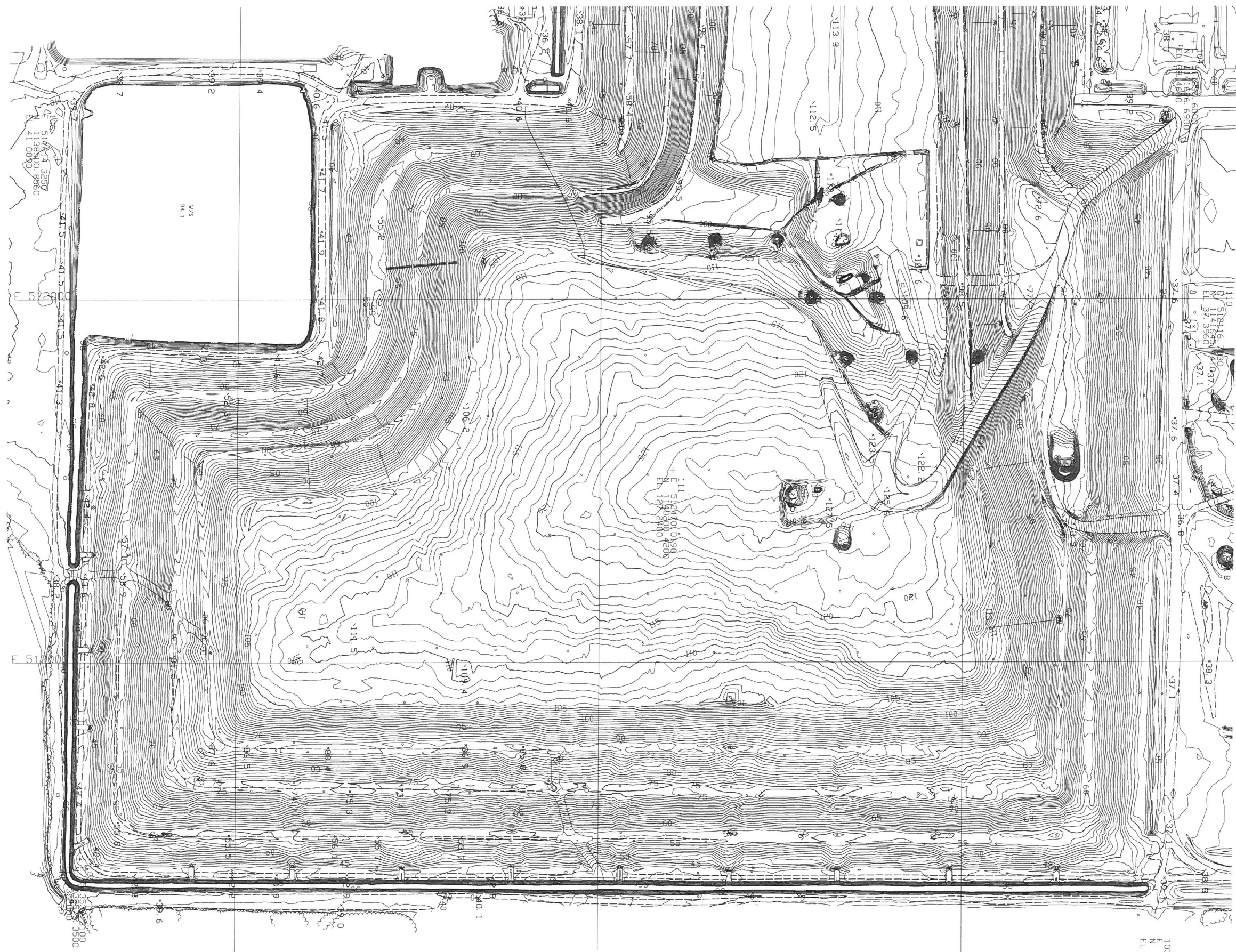
Notes:

1. Landfill volume change is based on an aerial photograph taken by I.F. Rooks & Associates on March 4, 2015.
2. Solid waste disposal moved from the Stage I Landfill to the Stage III Landfill on January 15, 2004.
The Stage III Landfill already had 659,000 CY of solid waste disposed of in it prior to January 15, 2004.
3. The filling rate for the Stage III Landfill between January 15, 2004 and March 4, 2015 has averaged 452,000 cubic yards per year.
This average filling rate was used to project the remaining landfill life and the estimated landfill closure year.
4. The landfill life estimate is for the Stage I, II and III landfills which have a total area of 316 acres.

Chart 1

Manatee County Lena Road Landfill
Plot of Cumulative Landfill Volume Consumed and Tons In-place
September 9, 1991 to March 4, 2015



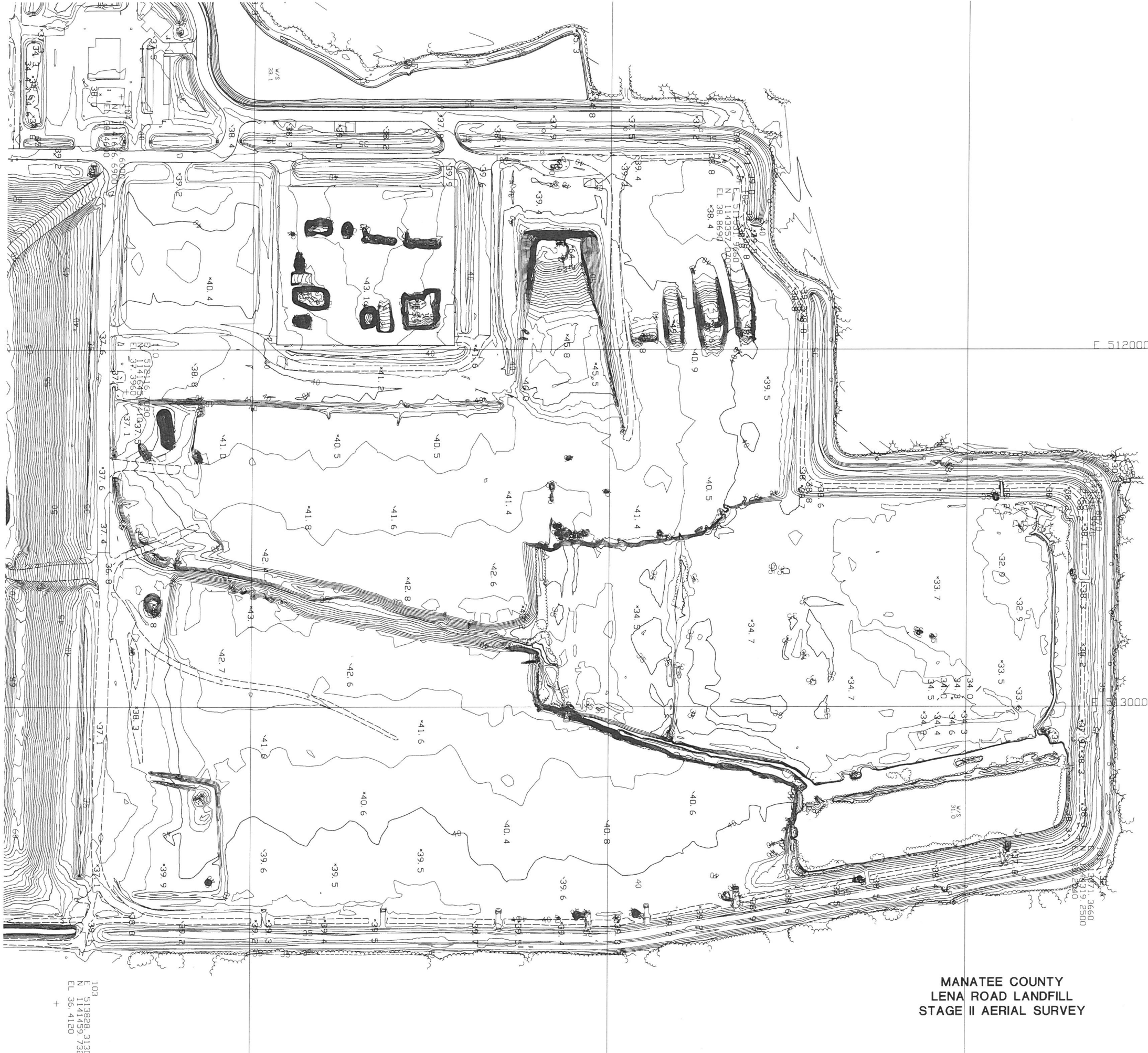
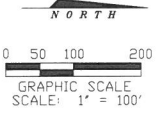


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MANATEE COUNTY
LENA ROAD LANDFILL
STAGE I AERIAL SURVEY

PHOTOGRAMMETRY PROVIDED BY:
I.F. ROOKS AND ASSOCIATES, INC
DATE FLOWN: 03-04-2015

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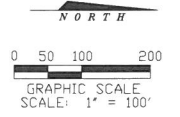
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**MANATEE COUNTY
 LENA ROAD LANDFILL
 STAGE II AERIAL SURVEY**

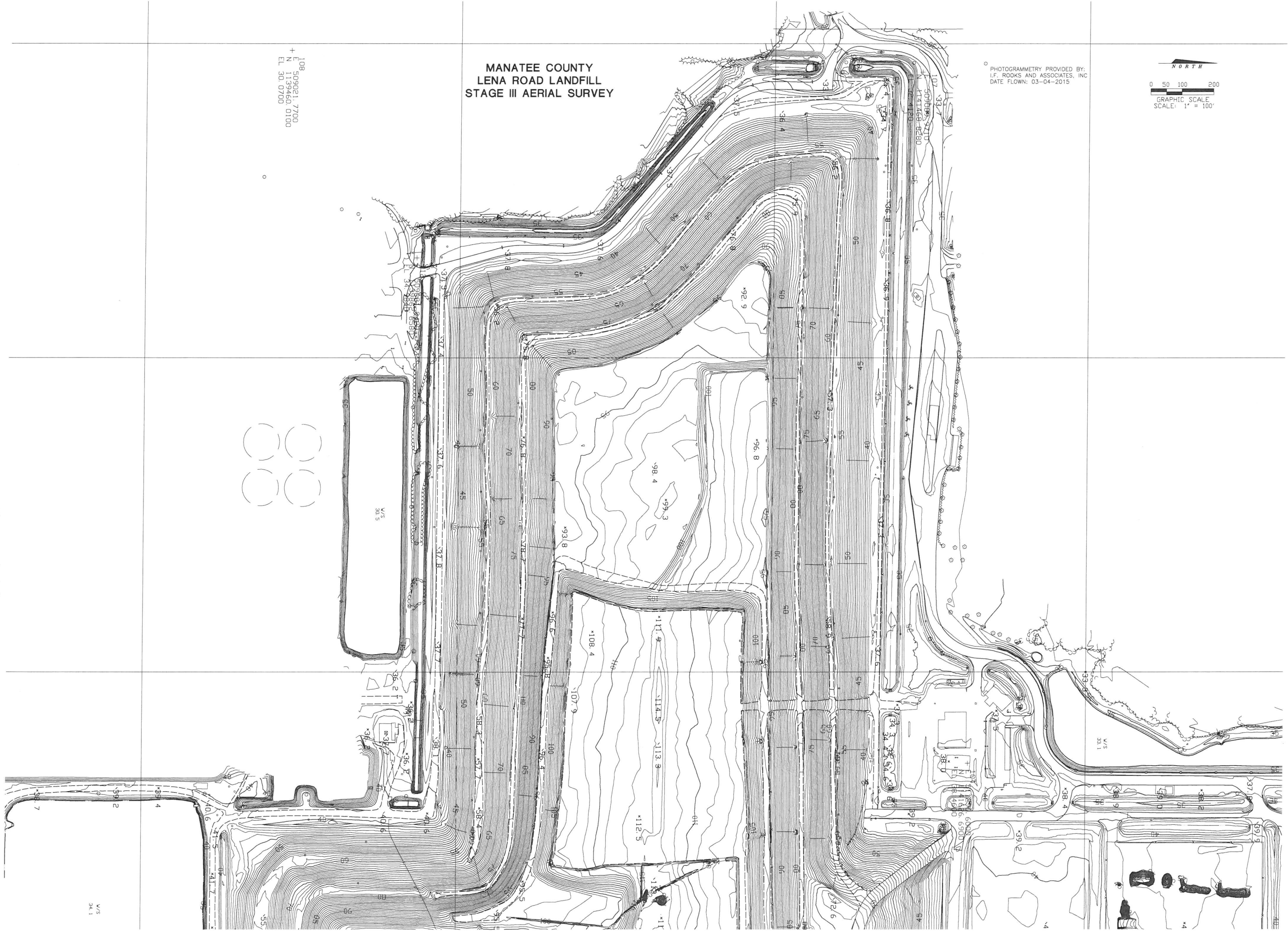
PHOTOGRAMMETRY PROVIDED BY:
 I.F. ROOKS AND ASSOCIATES, INC
 DATE FLOWN: 03-04-2015

MANATEE COUNTY
LENA ROAD LANDFILL
STAGE III AERIAL SURVEY

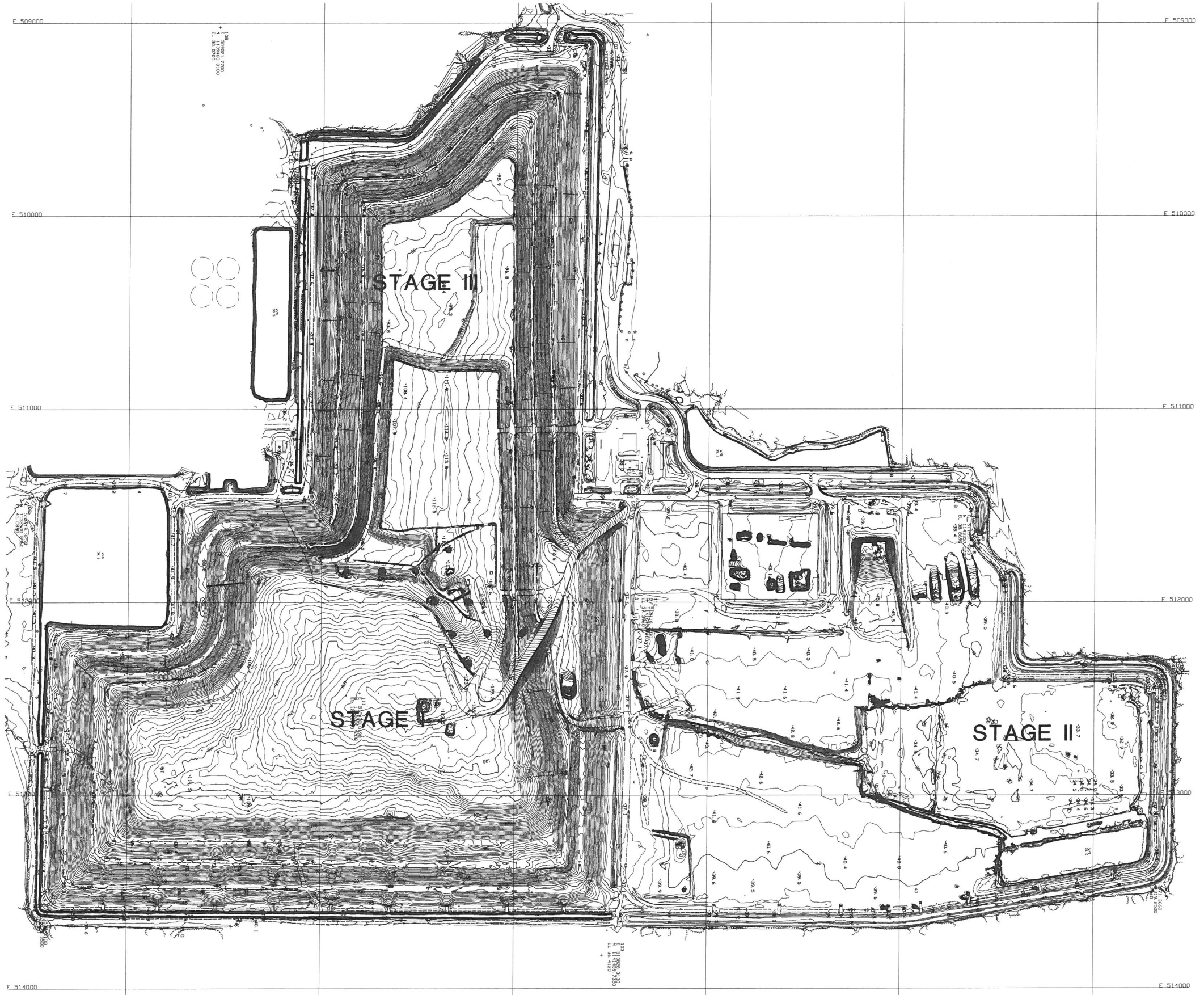
PHOTOGRAMMETRY PROVIDED BY:
I.F. ROOKS AND ASSOCIATES, INC
DATE FLOWN: 03-04-2015



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MANATEE COUNTY
LENA ROAD LANDFILL
STAGES I, II AND III
AERIAL SURVEY

PHOTOGRAMMETRY PROVIDED BY:
L.F. ROCKS AND ASSOCIATES, INC
DATE FLOWN: 03-04-2015



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ATKINS

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AERIAL PHOTOGRAPHY PROVIDED BY:
L.F. ROOKS & ASSOCIATES, INC.
DATE FLOWN: 03-04-2015

**MANATEE COUNTY
LENA ROAD LANDFILL
STAGES I, II AND III
PHOTOGRAPH**



MANATEE COUNTY GOVERNMENT
TO SERVE WITH EXCELLENCE
UTILITY OPERATIONS DEPARTMENT
C. MIKE CORE - DIRECTOR

