1566687 (1)

LENA ROAD LANDFILL
SEQUENTIAL FILLING PLAN

MANATEE COUNTY
FLORIDA

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

MANATEE COUNTY, FLORIDA
MARCH, 1997

TERRENCE J. THEDEMANN
CERTIFICATE
NO. 18281
STATE OF
FLORIDA
REGISTERED ENGINEER

HDR

HDR Engineering, Inc.
Tampa, Florida

Y:\MANATEE\DWG\COVER.DWG

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
B	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
A	COUNTY REVIEW	12/96	TJT	DMP		

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

PROPOSED FINAL CONTOURS

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	FC - 1	B
Scale 1" = 300'			

Y:\MANATEE\FINALCLO

LIST OF DRAWINGS

FC-1	PROPOSED FINAL CONTOURS
G-1	LENA ROAD LANDFILL - PLAN VIEW
C-1	OCTOBER 1996 (t=0)
C-2	APRIL 1997 (t=6)
C-3	OCTOBER 1997 (t=12)
C-4	APRIL 1998 (t=18)
C-5	OCTOBER 1998 (t=24)
C-6	APRIL 1999 (t=30)
C-7	OCTOBER 1999 (t=36)
C-8	APRIL 2000 (t=42)
C-9	OCTOBER 2000 (t=48)
C-10	APRIL 2001 (t=54)
C-11	OCTOBER 2001 (t=60)
C-12	APRIL 2002 (t=66)
C-13	OCTOBER 2002 (t=72)
C-14	APRIL 2003 (t=78)
C-15	OCTOBER 2003 (t=84)

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Lena Road Landfill
Plan View

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	G - 1	C

Scale 1" = 300'

Y:\MANATEE\SITETOP.DWG

TYPICAL LIFT CONSTRUCTION

NOTES:

1. EXTERIOR SIDESLOPES SHALL BE 5 HORIZONTAL TO ONE VERTICAL.
2. INTERIOR SIDESLOPES SHALL BE FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
3. THE STORMWATER DIVERSION BERM AND LEACHATE SEPARATION BERM SHALL COMPLETELY ENCLOSE THE WORKING FACE. ACCESS TO THE WORKING FACE IS OBTAINED BY GENTLY SLOPING THE LEACHATE SEPARATION BERM TO ALLOW TRUCKS TO DRIVE OVER THE BERM.
4. THE SEQUENCE OF LIFT CONSTRUCTION DURING EACH SIX MONTH INTERVAL IS DESIGNATED BY THE USE OF LETTERS AND SYMBOLS. THESE SYMBOLS ARE EXPLAINED BELOW.
   - (A) FIRST LIFT CONSTRUCTED (A) RIGHT TO LEFT CORRESPONDING WITH THE CROSS-SECTION
   - (B) SECOND LIFT CONSTRUCTED (B) LEFT TO RIGHT CORRESPONDING WITH THE CROSS-SECTION
   - (C) THIRD LIFT CONSTRUCTED (C) OUT OF THE PAGE CORRESPONDING WITH THE CROSS-SECTION
   - (D) FORTH LIFT CONSTRUCTED (D) INTO THE PAGE CORRESPONDING WITH THE CROSS-SECTION
5. DAILY (INITIAL) COVER HAS BEEN OMITTED FROM THE CROSS-SECTIONS FOR CLARITY.

TYPICAL TERRACE CONSTRUCTION

NOTE:

1. SOD ALL SLOPES STEEPER THAN 5:1 AND SEED AND MULCH ALL SLOPES LESS THAN 5:1.
2. TERRACE WIDTH SHALL BE 20 FEET FOR ALL FINAL 5:1 SIDESLOPES, AND 15 FEET FOR INTERMEDIATE 4:1 SIDESLOPES.
3. SOD TERRACE STORMWATER CONVEYANCES.

ELEVATION VIEW

** INVERT ELEVATIONS SHOWN ON THE FOLLOWING PLAN SHEETS ARE FOR DESIGN PURPOSES ONLY. ACTUAL ELEVATIONS WILL DEPEND UPON FIELD CONDITIONS.

PLAN VIEW

TYPICAL LETDOWN STRUCTURE INLET

TYPICAL LETDOWN STRUCTURE OUTLET

TONNAGE AND VOLUME DATA

DATE	TOTAL LANDFILLED (TPY)	TOTAL VOLUME (CYD)	CUMMULATIVE VOLUME (CYD)
APR. 1997	176,300	287,837	287,837
OCT. 1997	180,707	295,033	582,869
APR. 1998	180,707	295,033	877,902
OCT. 1998	185,225	302,408	1,180,311
APR. 1999	185,225	302,408	1,482,719
OCT. 1999	189,856	309,969	1,792,688
APR. 2000	189,856	309,969	2,102,656
OCT. 2000	194,602	317,718	2,420,374
APR. 2001	194,602	317,718	2,738,092
OCT. 2001	199,467	325,661	3,063,753
APR. 2002	199,467	325,661	3,389,414
OCT. 2002	204,454	333,802	3,723,216
APR. 2003	204,454	333,802	4,057,019
OCT. 2003	209,565	342,147	4,399,166

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

Issue No. | Description | Date | Drwn. | Chkd. | Resp. Engr. | Proj. Mgr.

Project Manager: D. PELHAM
Architect: - | M&C/Process: -
Civil: T.TIEDEMANN | Mechanical: -
Electrical: - | Structural: -
Environmental: - | Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections October 1996 (t = 0)

Date: 3/28/97 | Scale: AS NOTED | Project No.: 07187-008-096 | Drawing No.: C - 1 | Issue: D

Y:\MANATEE\MCSF9000.DWG

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

A C-2 C-2

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

B C-2 C-2

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

NOTE:
PROPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 1997 (t = 6)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 2	D

Scale: AS NOTED

Y:\MANATEE\MCSF\DOCS\LDV.DWG

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

C
C-3
C-3

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

D
C-3
C-3

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.	Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP									
C	DEP SUBMITTAL	1/97	TJT	DMP									
B	90 PERCENT REVIEW	12/96	TJT	DMP									
A	COUNTY REVIEW	9/96	TJT	DMP									

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 1997 (t = 12)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 3	D

Scale: AS NOTED

Y:\MANATEE\MCSF8012\DWG

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

E
C-4
C-4

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

F
C-4
C-4

NOTE:
PROPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

D.E.P.
MAR 28 1997
NORTHWEST DISTRICT
TAMPA

HDR
HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 1998 (t = 18)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 4	D

Scale: AS NOTED

Y:\MANATEE\MCSF50\6.DWG

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

G
C-5
C-5

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

H
C-5
C-5

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections October 1998 (t = 24)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 5	D

Scale: AS NOTED

Y:\MANATEE\MCSF\SQ24.DWG

NOTE:
PROPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

I
C-6
C-6

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

J
C-6
C-6

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 1999 (t = 30)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 6	D
Scale: AS NOTED			

Y:\MANATEE\MC9F5030.DWG

(10)

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

K
C-7
C-7

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

L
C-7
C-7

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

NOTE:
PROPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 1999 (t = 36)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 7	D

Scale: AS NOTED

Y:\MANATEE\MCSF\8038

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

M
C-8
C-8

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

N
C-8
C-8

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2000 (t = 42)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 8	D

Scale: AS NOTED

Y:\MANATEE\MCSF9042

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

O
C-9
C-9

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

P
C-9
C-9

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2000 (t = 48)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 9	D
Scale: AS NOTED			

Y:\MANATEE\MCSF50482.DWG

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Q
C-10
C-10

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

R
C-10
C-10

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2001 (t = 54)

Date 3/28/97 | Project No. 07187-008-096 | Drawing No. C - 10 | Issue D
Scale AS NOTED

Y:\MANATEE\MCSF8054.DWG

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

S
C-11
C-11

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

T
C-11
C-11

LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- (B) FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2001 (t = 60)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 11	C

Scale: AS NOTED

Y:\MANATEE\MCSF8060

(15)

N

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

U
C-12
C-12

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

V
C-12
C-12

LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- (B) FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2002 (t = 66)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 12	C
Scale: AS NOTED			

Y:\MANATEE\MCSF8066

(16)

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES
- PARTIAL CLOSURE 1995
- PARTIAL CLOSURE 2000

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

W
C-13
C-13

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

X
C-13
C-13

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

HDR
HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2002 (t = 72)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 13	C

Scale: AS NOTED

Y:\MANATEE\MCSF8072

(17)

N

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- (B) FILLING SEQUENCE (SEE C-1)
- PARTIAL CLOSURE 1995
- PARTIAL CLOSURE 2000

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Y
C-14
C-14

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Z
C-14
C-14

D.E.P.
MAR 2 8 1997
WEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2003 (t = 78)

Date 3/28/97 | Scale AS NOTED | Project No. 07187-008-096 | Drawing No. C - 14 | Issue C

Y:\MANATEE\MCSF5078

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

a C-15 C-15

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

b C-15 C-15

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

HDR
HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2003 (t = 84)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 15	C

Scale: AS NOTED

Y:\MANATEE\MCBF8084