

**Part III
Attachment III-D
Appendix III-D.2**

LANDFILL CROSS SECTIONS

**Pescadito Environmental Resource Center
MSW No. 2374
Webb County, Texas**

PESCADITO
ENVIRONMENTAL RESOURCE CENTER

**Initial Submittal March 2015
Revised September 2015**


**Prepared for:
Rancho Viejo Waste Management, LLC
1116 Calle del Norte
Laredo, TX 78041**

**Prepared by:
CB&I Environmental and
Infrastructure, Inc.**



**12005 Ford Rd, Suite 600
Dallas, TX 75234**

9-18-2015

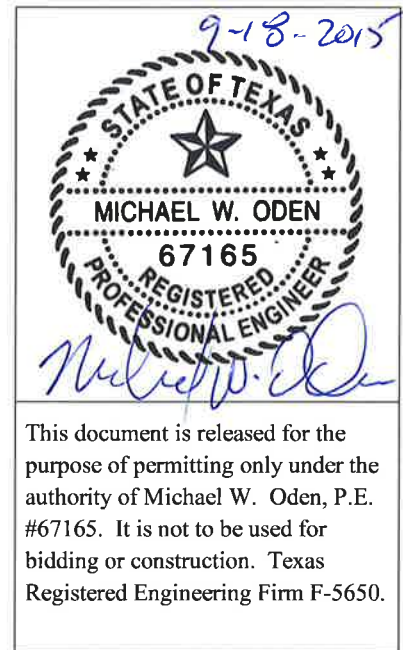


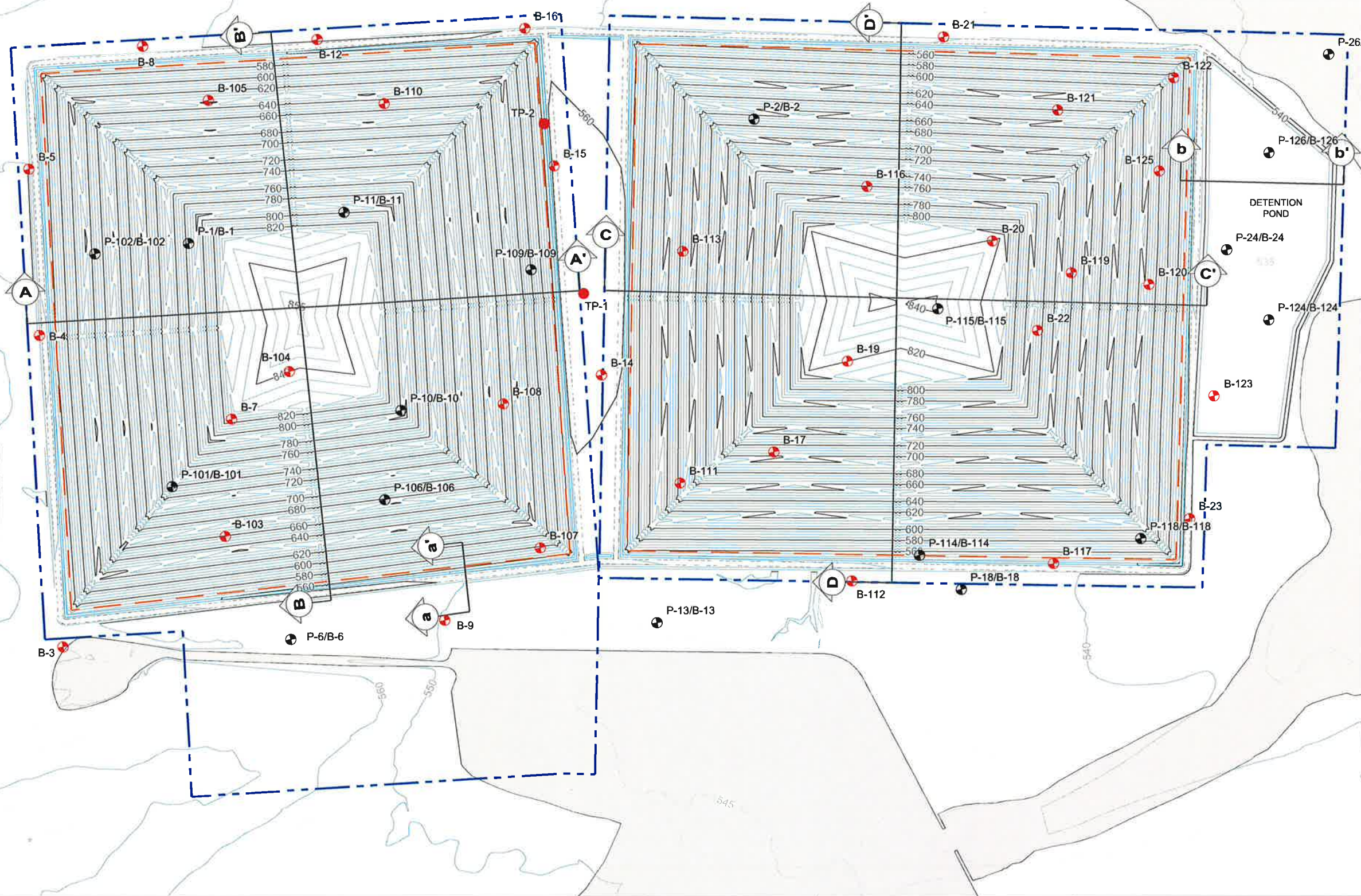
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The seal is circular with a five-pointed star in the center. The text around the star reads "STATE OF TEXAS" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The name "MICHAEL W. ODEN" and the number "67165" are printed across the middle of the seal. A handwritten signature in blue ink is written over the bottom portion of the seal.

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LEGEND

- PERMIT BOUNDARY
- WASTE BOUNDARY
- PERIMETER DITCH
- PERIMETER ACCESS ROAD
- CLOMR 100-YEAR FLOODPLAIN
- B-124 BORING LOCATION
- B-125/
P-124 BORING/PIEZOMETER LOCATION

NOTES

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY DALLAS AERIAL SURVEYS ON FEBRUARY 15, 2010.
2. BOUNDARY AND IMPROVEMENT SURVEY DEVELOPED BY MEJIA ENGINEERING COMPANY ON AUGUST 15, 2011 AND JUNE 9, 2014.
3. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.

REV. NO.	DATE	DESCRIPTION



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Michael W. Oden

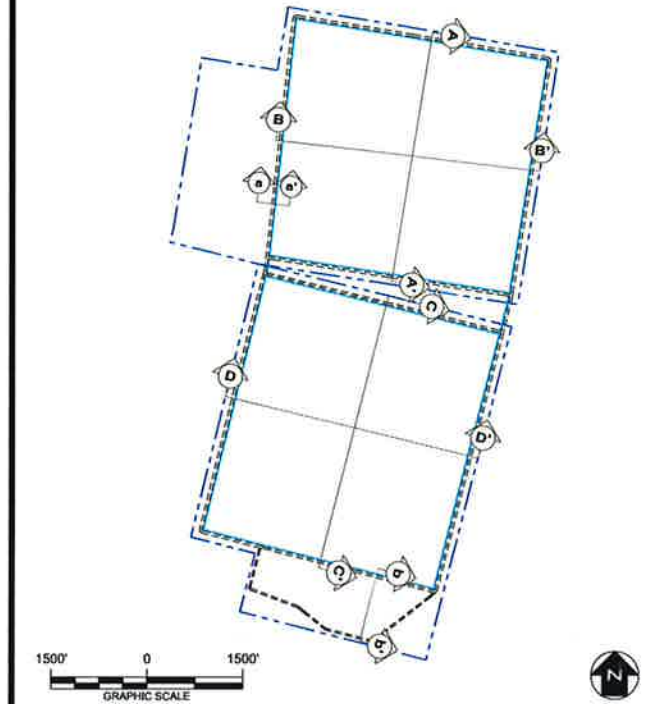
**PESCADITO ENVIRONMENTAL RESOURCE CENTER
WEBB COUNTY, TEXAS
MSW 2374**

SECTION LAYOUT PLAN

PROJ. NO.: 148866	DATE: MARCH 2015
DESIGNED BY: -	DRAWING NO. III
DRAWN BY: MTE	D.2-1
CHECKED BY: RDS	1 OF 6 SHEETS
APPROVED BY: MWO	

Technically Complete, March 11, 2016

KEYMAP



KEYMAP LEGEND

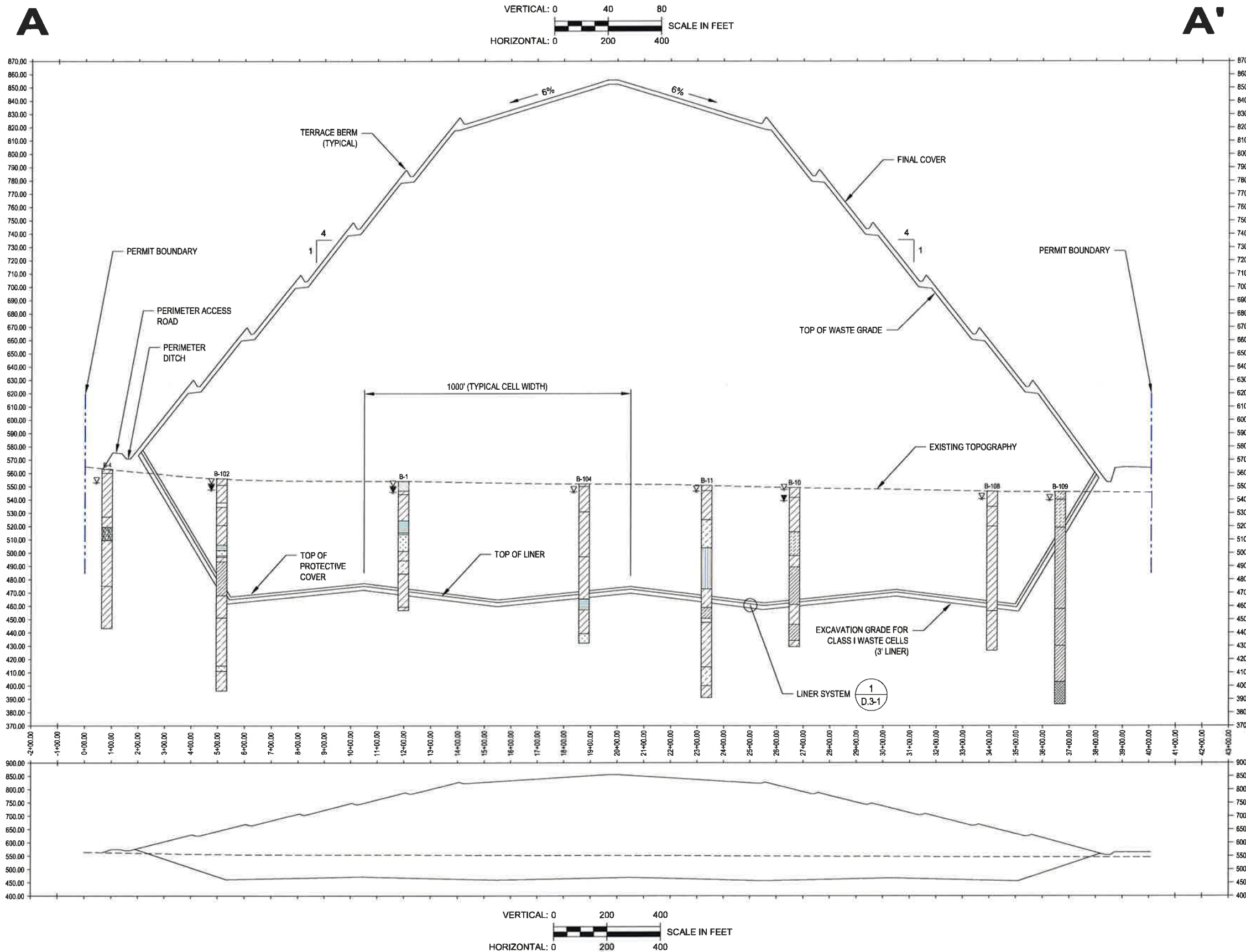
- PERMIT BOUNDARY
- PERIMETER ROAD
- PERIMETER DITCH

LEGEND

- | | | | |
|--|-----------------|--|--------------------------|
| | FAT CLAY (CH) | | SANDY FAT CLAY (CH) |
| | LEAN CLAY (CL) | | SANDY LEAN CLAY (CL) |
| | SILT (ML) | | POORLY GRADED SAND (SP) |
| | ELASTIC SILT | | SILTSTONE |
| | CLAYEY SAND | | SANDSTONE |
| | SANDY SILT (ML) | | CLAYSHALE |
| | SILTY SAND (SM) | | SANDY SILTY CLAY (CL-ML) |

NOTES

1. REFER TO DRAWING III-D.1-3 FOR EXCAVATION PLAN. REFER TO DRAWING III-D.1-4 FOR LANDFILL COMPLETION PLAN.
2. REFER TO PART III, ATTACHMENT D.3 FOR LINER, LEACHATE COLLECTION SYSTEM, AND FINAL COVER DETAILS.
3. REFER TO DRAWING III-D.1-1 FOR BUFFER DISTANCES.
4. REFER TO PART III, ATTACHMENT III-E FOR SUBSURFACE CHARACTERIZATION AND GROUNDWATER ELEVATIONS
5. MAXIMUM NORTH UNIT FINAL COVER ELEVATION: 858 FT-MSL. MAXIMUM NORTH UNIT ELEVATION OF WASTE: 855 FT-MSL. DEEPEST EXCAVATION OF NORTH UNIT AT LEACHATE SUMP N-8: 444.7 FT-MSL FOR 3-FT LINER THICKNESS.
6. SOME BORINGS ARE PROJECTED ON THE CROSS SECTIONS FROM THEIR ACTUAL LOCATIONS.



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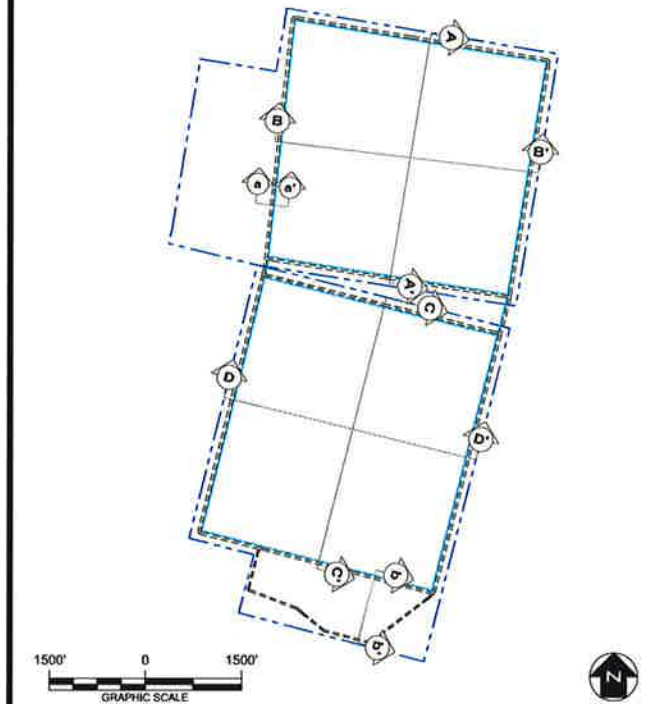
**NORTH UNIT
 LANDFILL SECTION A - A'**

PROJ. NO.:	148866	DATE:	MARCH 2015
DESIGNED BY:	-	DRAWING NO.:	III D.2-2
DRAWN BY:	MTE		
CHECKED BY:	RDS		
APPROVED BY:	MWO		

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KEYMAP



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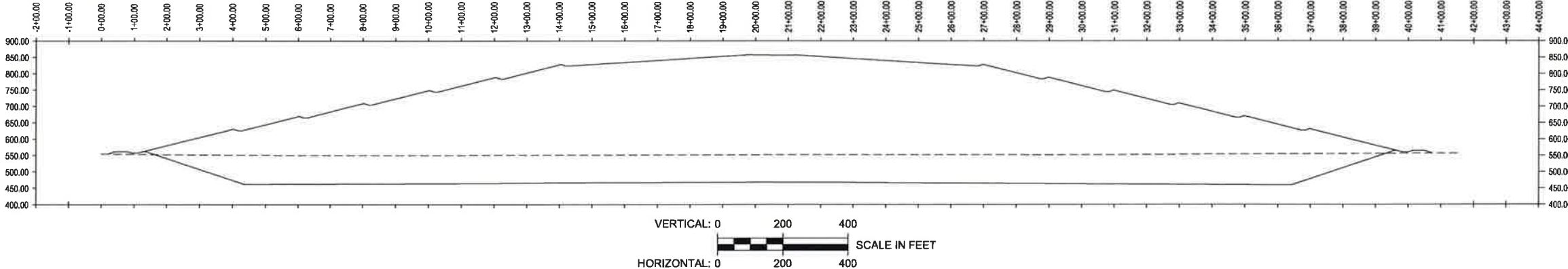
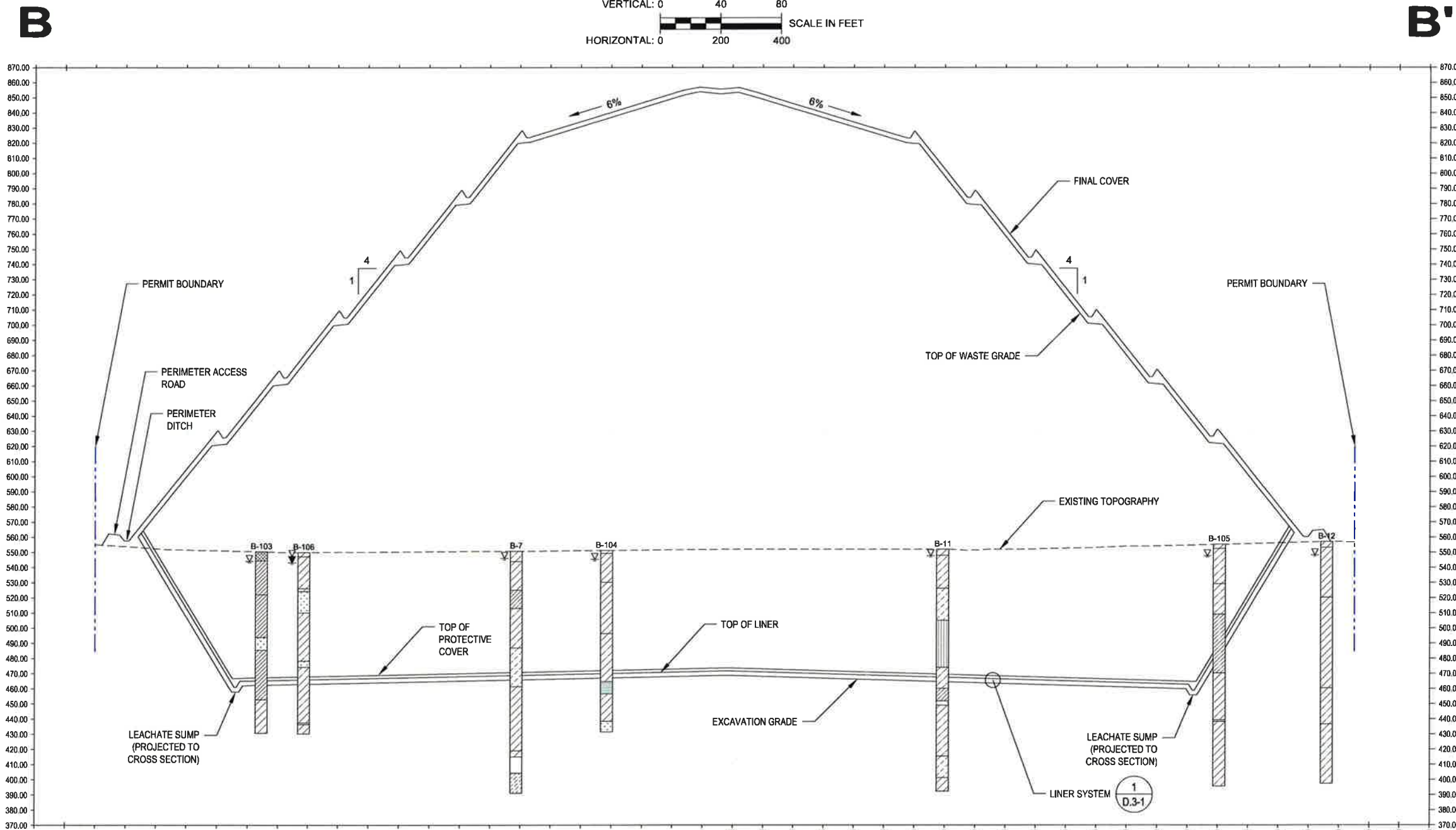
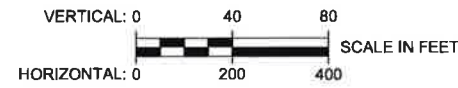
- PERMIT BOUNDARY
- PERIMETER ROAD
- PERIMETER DITCH

LEGEND

- | | | | |
|--|-----------------|--|--------------------------|
| | FAT CLAY (CH) | | SANDY FAT CLAY (CH) |
| | LEAN CLAY (CL) | | SANDY LEAN CLAY (CL) |
| | SILT (ML) | | POORLY GRADED SAND (SP) |
| | ELASTIC SILT | | SILTSTONE |
| | CLAYEY SAND | | SANDSTONE |
| | SILTY SAND (SM) | | CLAYSHALE |
| | | | SANDY SILTY CLAY (CL-ML) |

NOTES

1. REFER TO DRAWING III-D.1-3 FOR EXCAVATION PLAN. REFER TO DRAWING III-D.1-4 FOR LANDFILL COMPLETION PLAN.
2. REFER TO PART III, ATTACHMENT D.3 FOR LINER, LEACHATE COLLECTION SYSTEM, AND FINAL COVER DETAILS.
3. REFER TO DRAWING III-D.1-1 FOR BUFFER DISTANCES.
4. REFER TO PART III, ATTACHMENT III-E FOR SUBSURFACE CHARACTERIZATION AND GROUNDWATER ELEVATIONS
5. MAXIMUM NORTH UNIT FINAL COVER ELEVATION: 858 FT-MSL. MAXIMUM NORTH UNIT ELEVATION OF WASTE: 855 FT-MSL. DEEPEST EXCAVATION OF NORTH UNIT AT LEACHATE SUMP N-8: 444.7 FT-MSL FOR 3-FT LINER THICKNESS.
6. SOME BORINGS ARE PROJECTED ON THE CROSS SECTIONS FROM THEIR ACTUAL LOCATIONS.



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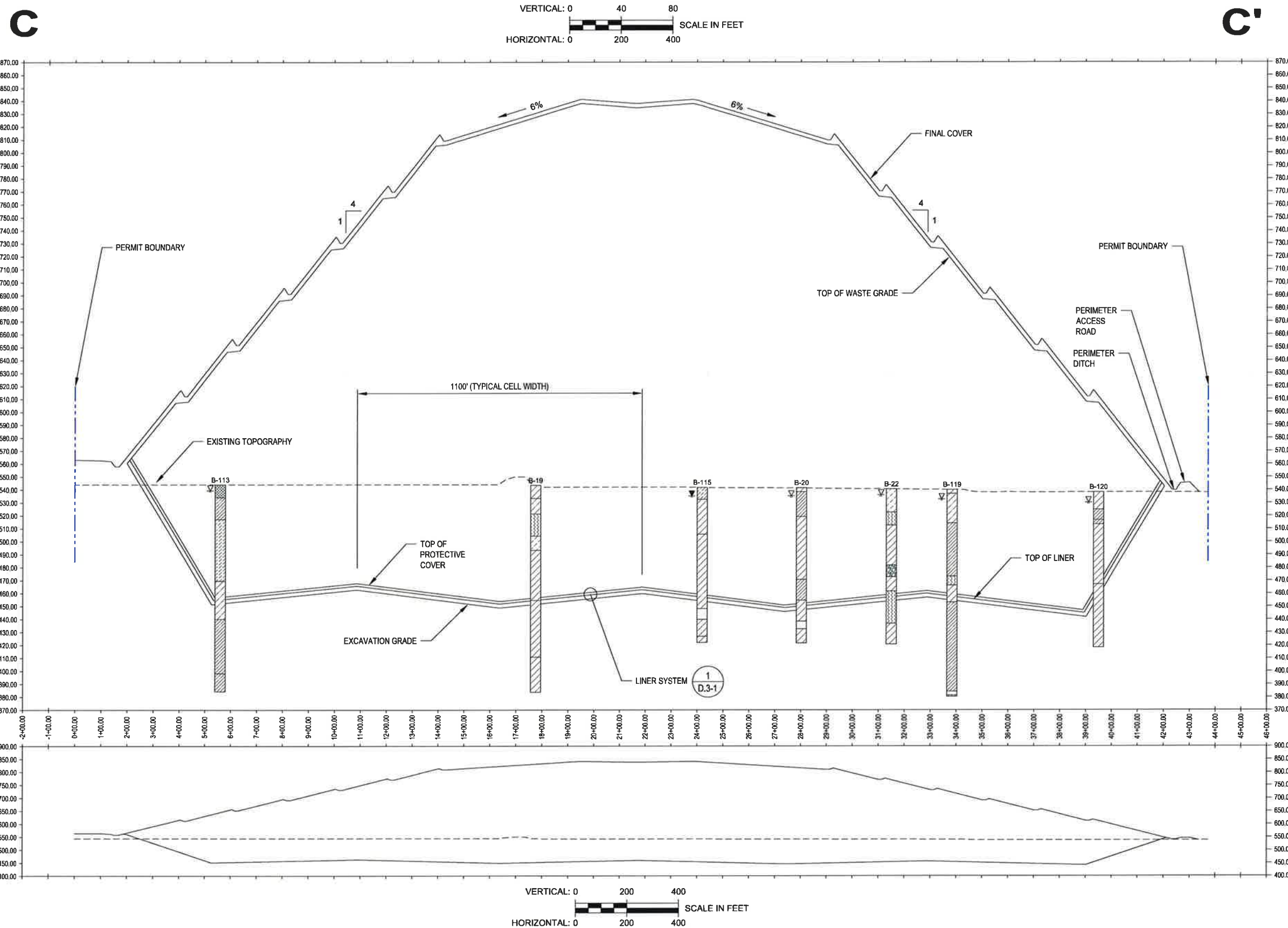
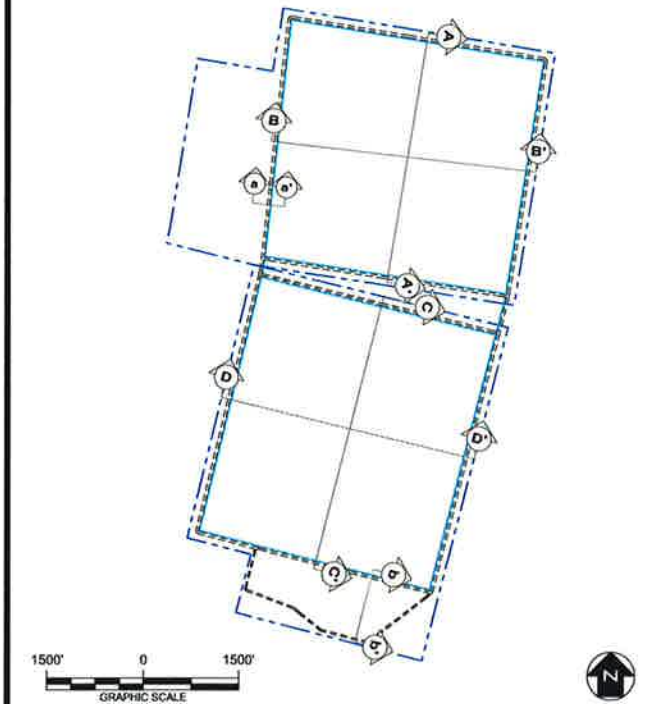
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**PESCADITO ENVIRONMENTAL RESOURCE CENTER
WEBB COUNTY, TEXAS
MSW 2374**

**NORTH UNIT
LANDFILL SECTION B - B'**

PROJ. NO.:	148866	DATE:	MARCH 2015
DESIGNED BY:	-	DRAWING NO.:	III
DRAWN BY:	MTE		D.2-3
CHECKED BY:	RDS		3 OF 6 SHEETS
APPROVED BY:	MWO		

KEYMAP



KEYMAP LEGEND

- APPROXIMATE FACILITY BOUNDARY
- PERIMETER ROAD
- PERIMETER DITCH

LEGEND

- | | |
|-----------------|--------------------------|
| FAT CLAY (CH) | SANDY FAT CLAY (CH) |
| LEAN CLAY (CL) | SANDY LEAN CLAY (CL) |
| SILT (ML) | POORLY GRADED SAND (SP) |
| ELASTIC SILT | SILTSTONE |
| CLAYEY SAND | SANDSTONE |
| SANDY SILT (ML) | CLAYSHALE |
| SILTY SAND (SM) | SANDY SILTY CLAY (CL-ML) |

NOTES

1. REFER TO DRAWING III-D.1-3 FOR EXCAVATION PLAN. REFER TO DRAWING III-D.1-4 FOR LANDFILL COMPLETION PLAN.
2. REFER TO PART III, ATTACHMENT D.3 FOR LINER, LEACHATE COLLECTION SYSTEM, AND FINAL COVER DETAILS.
3. REFER TO DRAWING III-D.1-1 FOR BUFFER DISTANCES.
4. REFER TO PART III, ATTACHMENT III-E FOR SUBSURFACE CHARACTERIZATION AND GROUNDWATER ELEVATIONS
5. MAXIMUM SOUTH UNIT FINAL COVER ELEVATION: 843 FT-MSL. MAXIMUM SOUTH UNIT ELEVATION OF WASTE: 840 FT-MSL. DEEPEST EXCAVATION AT LEACHATE SUMP S-8: 431.3 FT-MSL FOR 3-FT LINER THICKNESS.
6. SOME BORINGS ARE PROJECTED ON THE CROSS SECTIONS FROM THEIR ACTUAL LOCATIONS.

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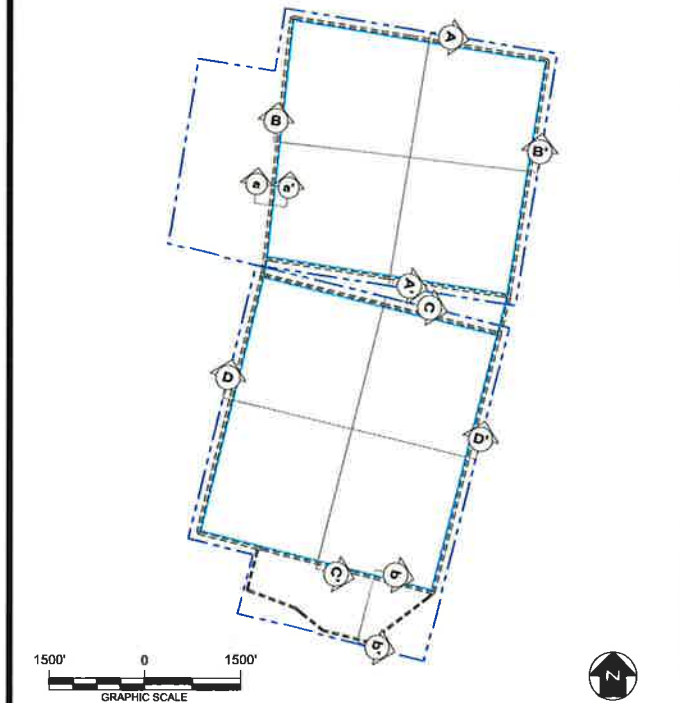
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WEBB COUNTY, TEXAS
MSW 2374

SOUTH UNIT
LANDFILL SECTION C - C'

PROJ. NO.:	148866	DATE:	MARCH 2015
DESIGNED BY:	-	DRAWING NO.:	III D.2-4
DRAWN BY:	MTE		
CHECKED BY:	RDS		
APPROVED BY:	MWO		

4 OF 6 SHEETS

KEYMAP



KEYMAP LEGEND

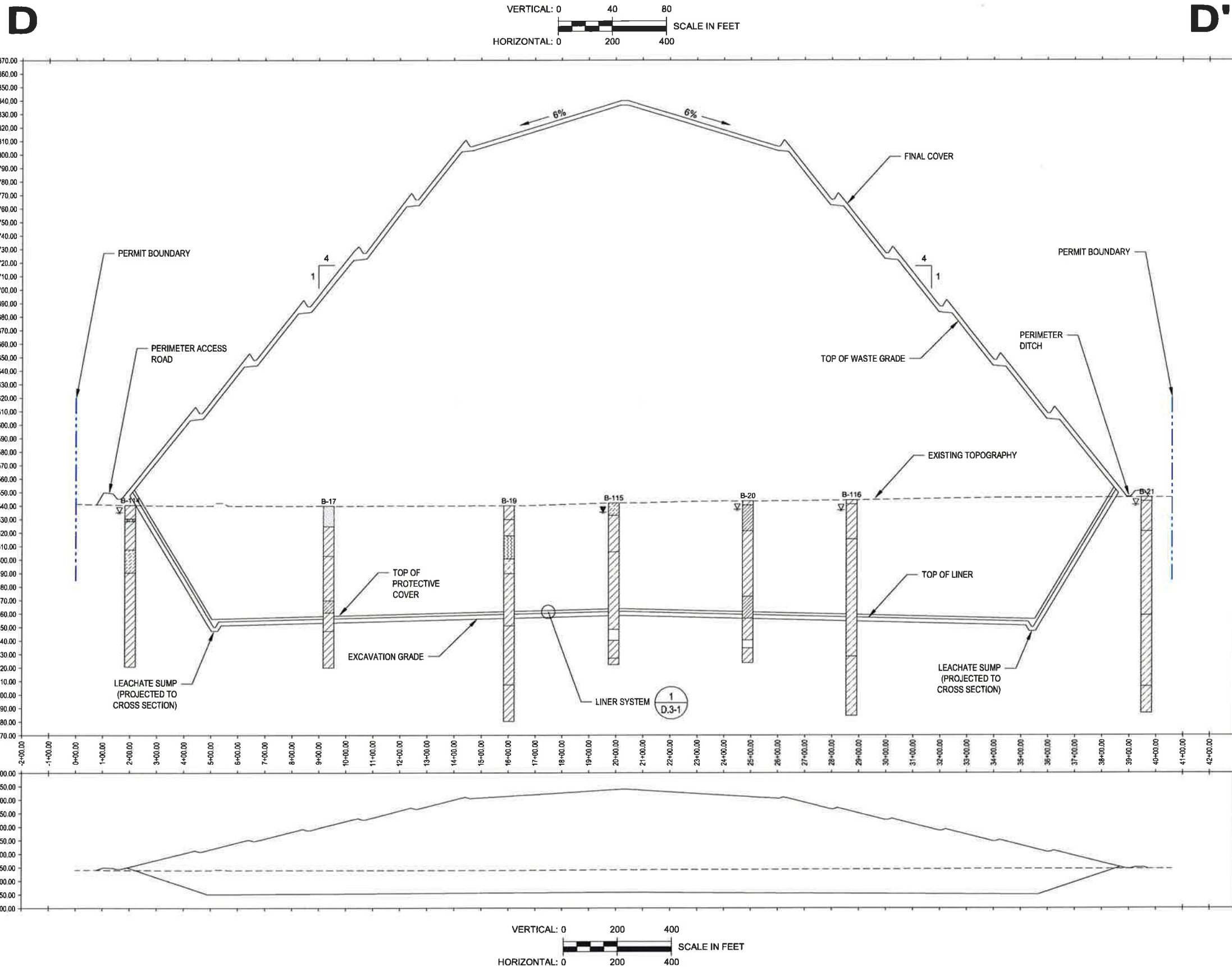
- APPROXIMATE FACILITY BOUNDARY
- PERIMETER ROAD
- PERIMETER DITCH

LEGEND

- | | | | |
|--|-----------------|--|--------------------------|
| | FAT CLAY (CH) | | SANDY FAT CLAY (CH) |
| | LEAN CLAY (CL) | | SANDY LEAN CLAY (CL) |
| | SILT (ML) | | POORLY GRADED SAND (SP) |
| | ELASTIC SILT | | SILTSTONE |
| | CLAYEY SAND | | SANDSTONE |
| | SANDY SILT (ML) | | CLAYSHALE |
| | SILTY SAND (SM) | | SANDY SILTY CLAY (CL-ML) |

NOTES

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6. SOME BORINGS ARE PROJECTED ON THE CROSS SECTIONS FROM THEIR ACTUAL LOCATIONS.



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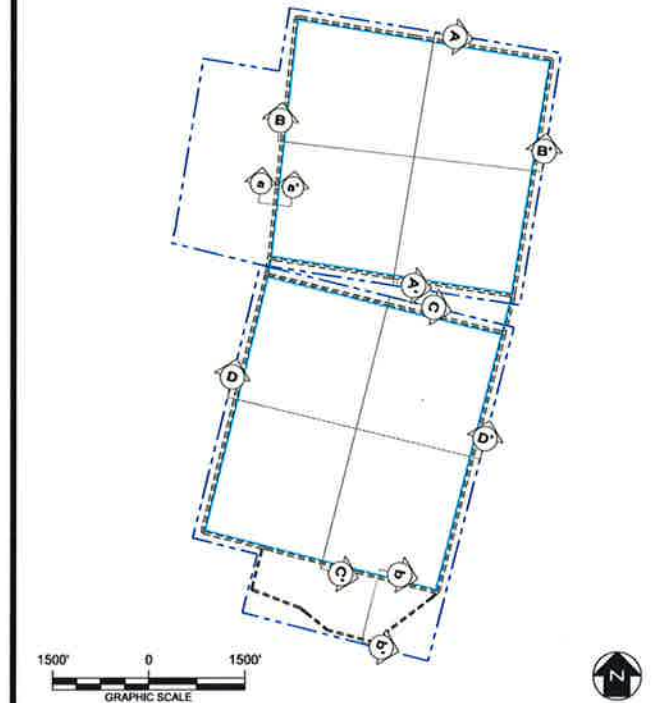
MICHAEL W. ODEN
 67165
 REGISTERED PROFESSIONAL ENGINEER

PESCADITO ENVIRONMENTAL RESOURCE CENTER
WEBB COUNTY, TEXAS
MSW 2374

SOUTH UNIT
LANDFILL SECTION D - D'

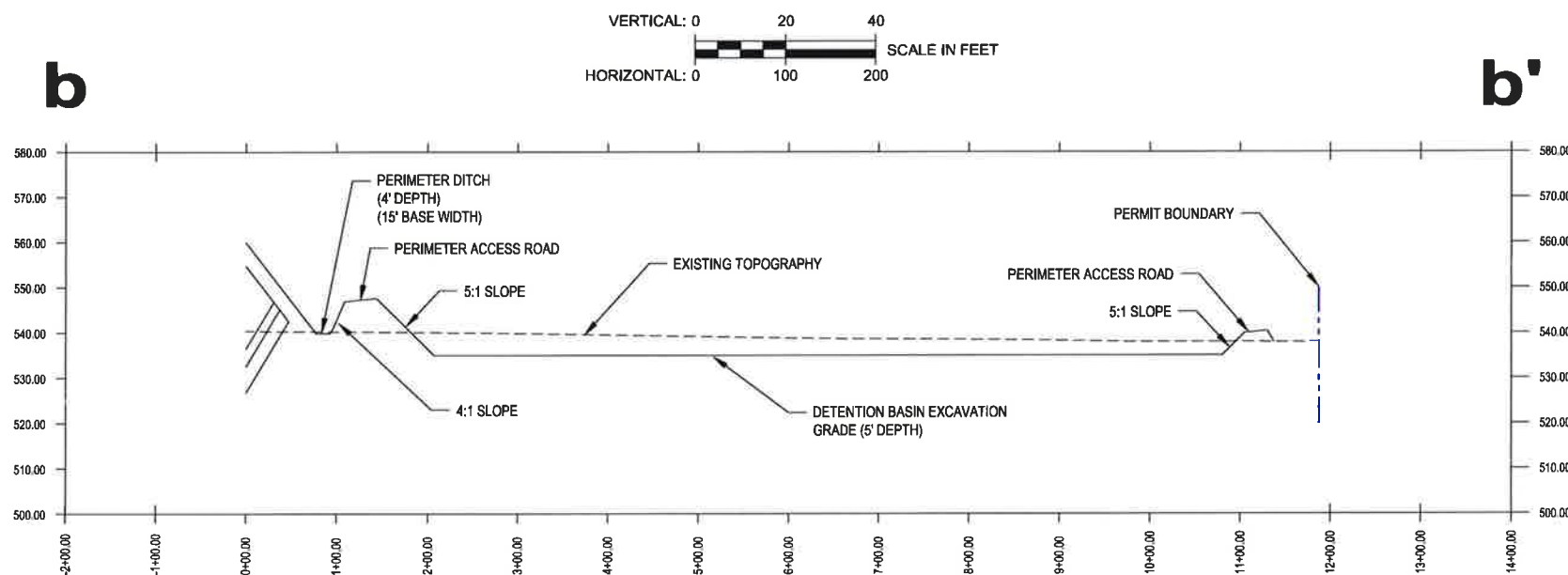
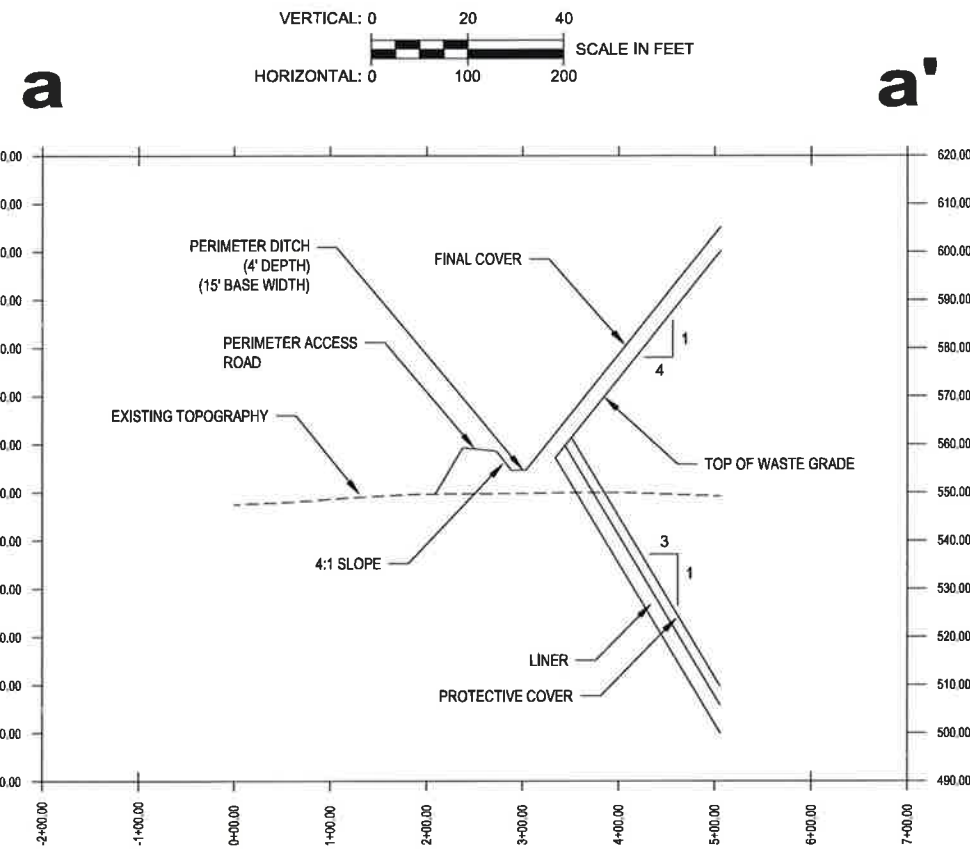
PROJ. NO.:	148866	DATE:	MARCH 2015
DESIGNED BY:	-	DRAWING NO.:	III
DRAWN BY:	MTE		D.2-5
CHECKED BY:	RDS		
APPROVED BY:	MWO		5 OF 6 SHEETS

KEYMAP



KEYMAP LEGEND

- APPROXIMATE FACILITY BOUNDARY
- PERIMETER ROAD
- PERIMETER DITCH



REV. NO.	DATE	DESCRIPTION



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 MSW 2374**

LANDFILL SECTIONS a - a' & b - b'

PROJ. NO.: 148866	DATE: MARCH 2015
DESIGNED BY: -	DRAWING NO. III
DRAWN BY: MTE	D.2-6
CHECKED BY: RDS	6 OF 6 SHEETS
APPROVED BY: MWO	