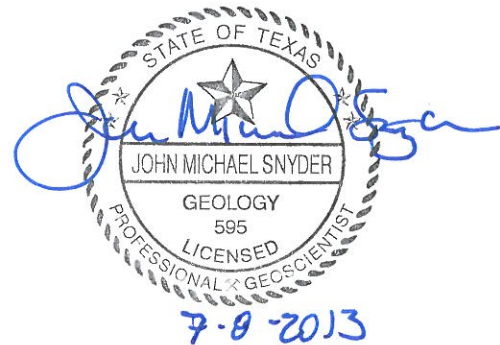


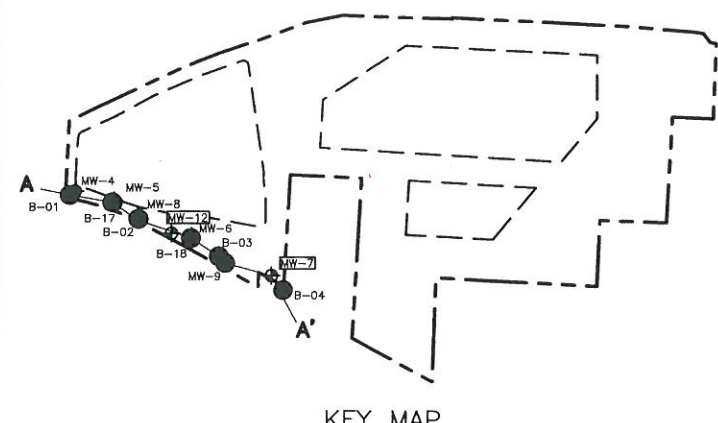
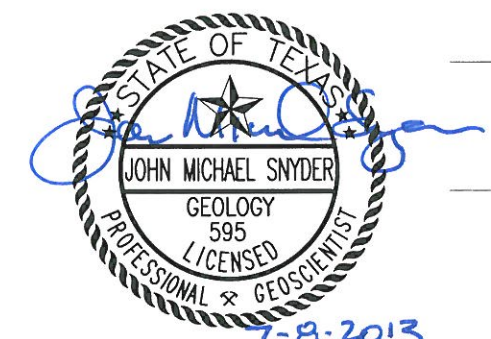
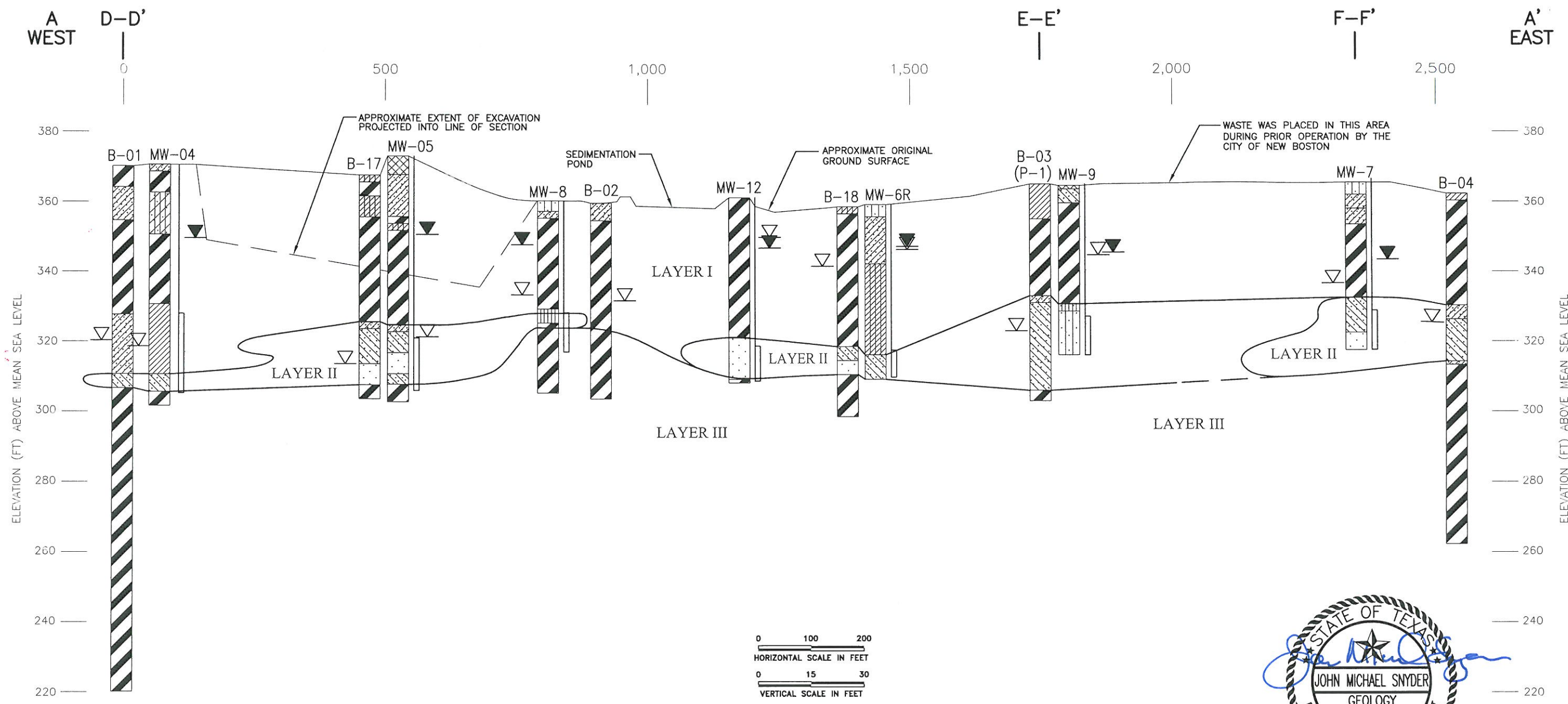
NEW BOSTON LANDFILL

APPENDIX E3

SITE GEOLOGIC DATA

Geologic Cross Section Location Map.....	E3-1
Geologic Cross Section A-A'	E3-2
Geologic Cross Section B-B'	E3-3
Geologic Cross Section C-C'	E3-4
Geologic Cross Section C-C'	E3-4a
Geologic Cross Section C-C'	E3-4b
Geologic Cross Section C-C'	E3-4c
Geologic Cross Section D-D'	E3-5
Geologic Cross Section E-E'	E3-6
Geologic Cross Section F-F'	E3-7
Geologic Cross Section G-G'	E3-8
Geologic Cross Section H-H'	E3-9
Geologic Cross Section I-I'	E3-10
Geologic Cross Section J-J'	E3-11
Thickness of Upper Sand (Layer IA)	E3-12
Thickness of Lower Sand (Layer II).....	E3-13
Structure Map of Base of Lower Sand (Layer II).....	E3-14





LEGEND

- | | | | | | |
|--|-------------------------|--|--------------|--|---|
| | CLAY (CH) | | SAND | | FILL |
| | CLAY (CL) | | SAND, CLAYEY | | GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROXIMATE) |
| | CLAY, SANDY | | SAND, SILTY | | GROUNDWATER LEVEL ON 1/23/2012 |
| | CLAY, SILTY | | SILT | | SCREENED INTERVAL |
| | CLAY WITH SILT AND SAND | | SILT, SANDY | | |

NOTES:

- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE AND HMA BORING LOGS.
- DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.
- ELEVATION ON B-18 CHANGED FROM SUSPECTED TYPOGRAPHICAL ERROR OF 385.5 NOTED ON ESE'S BORING LOG.
- MW-05 WAS RECONDITIONED IN 2005.

GEOLOGIC CROSS SECTION A-A'
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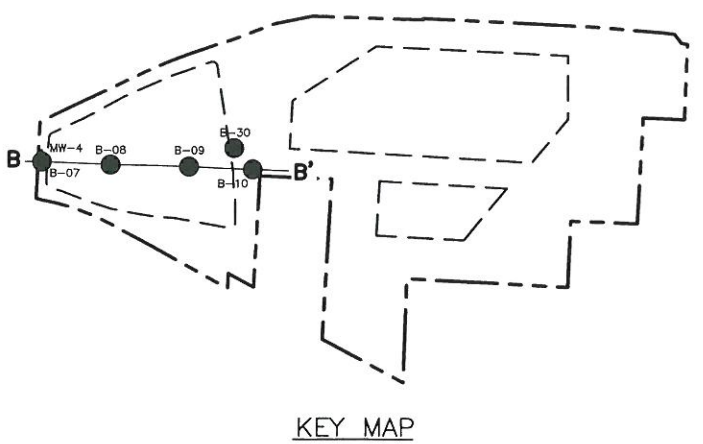
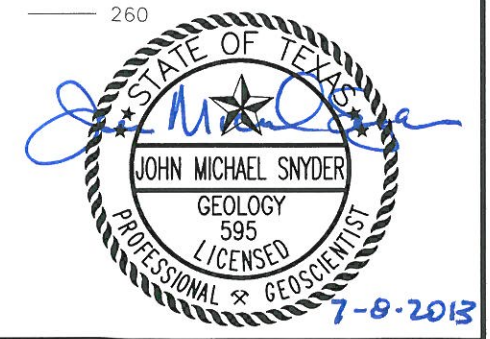
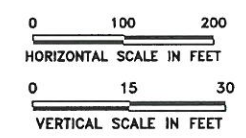
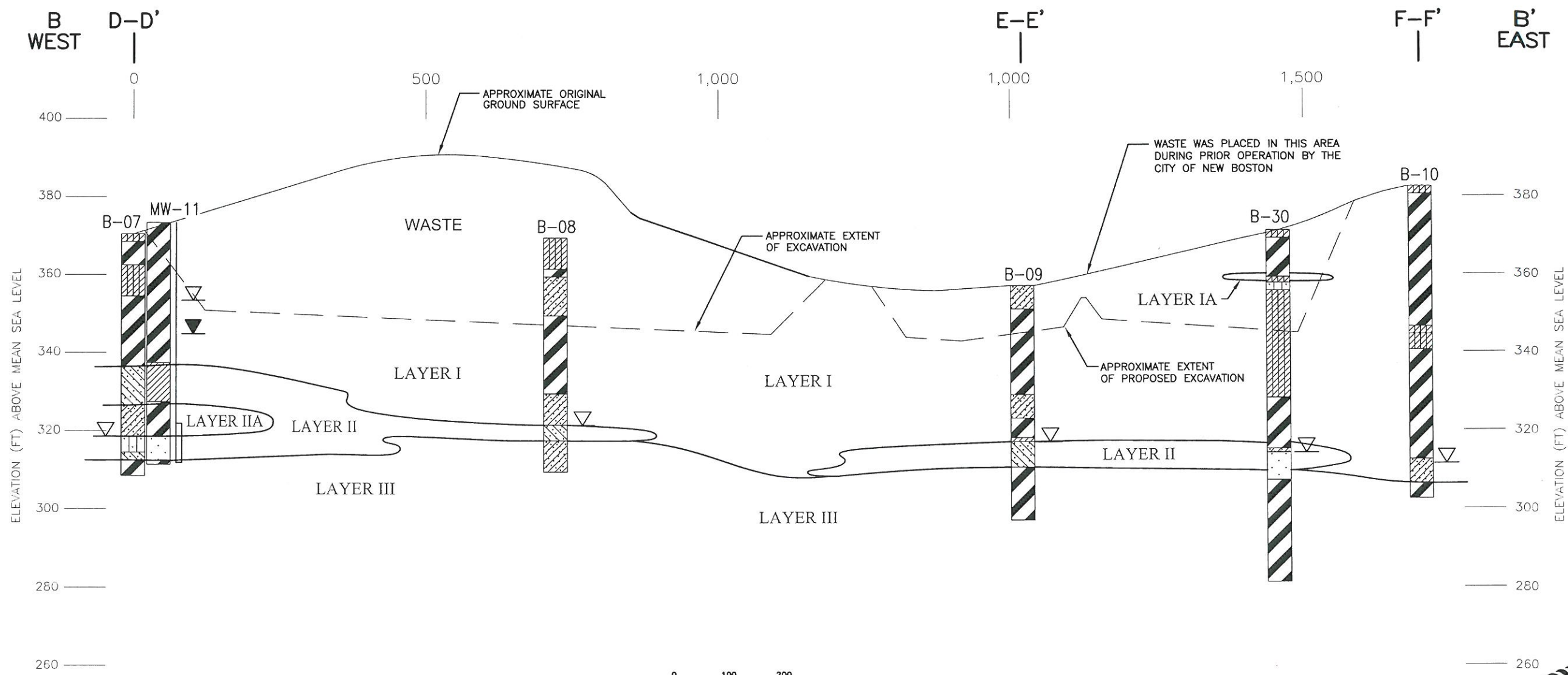
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E3-2

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LEGEND

	CLAY (CH)		SAND		GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROXIMATE)
	CLAY (CL)		SAND, CLAYEY		GROUNDWATER LEVEL ON 1/23/2012
	CLAY, SILTY		SAND, SILTY		SCREENED INTERVAL
	CLAY, SANDY				

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.
 - BORING B-30 PROJECTED INTO LINE OF SECTION.

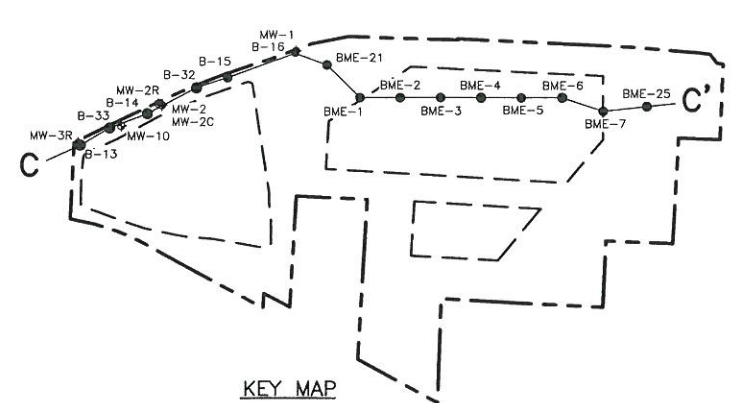
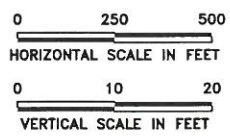
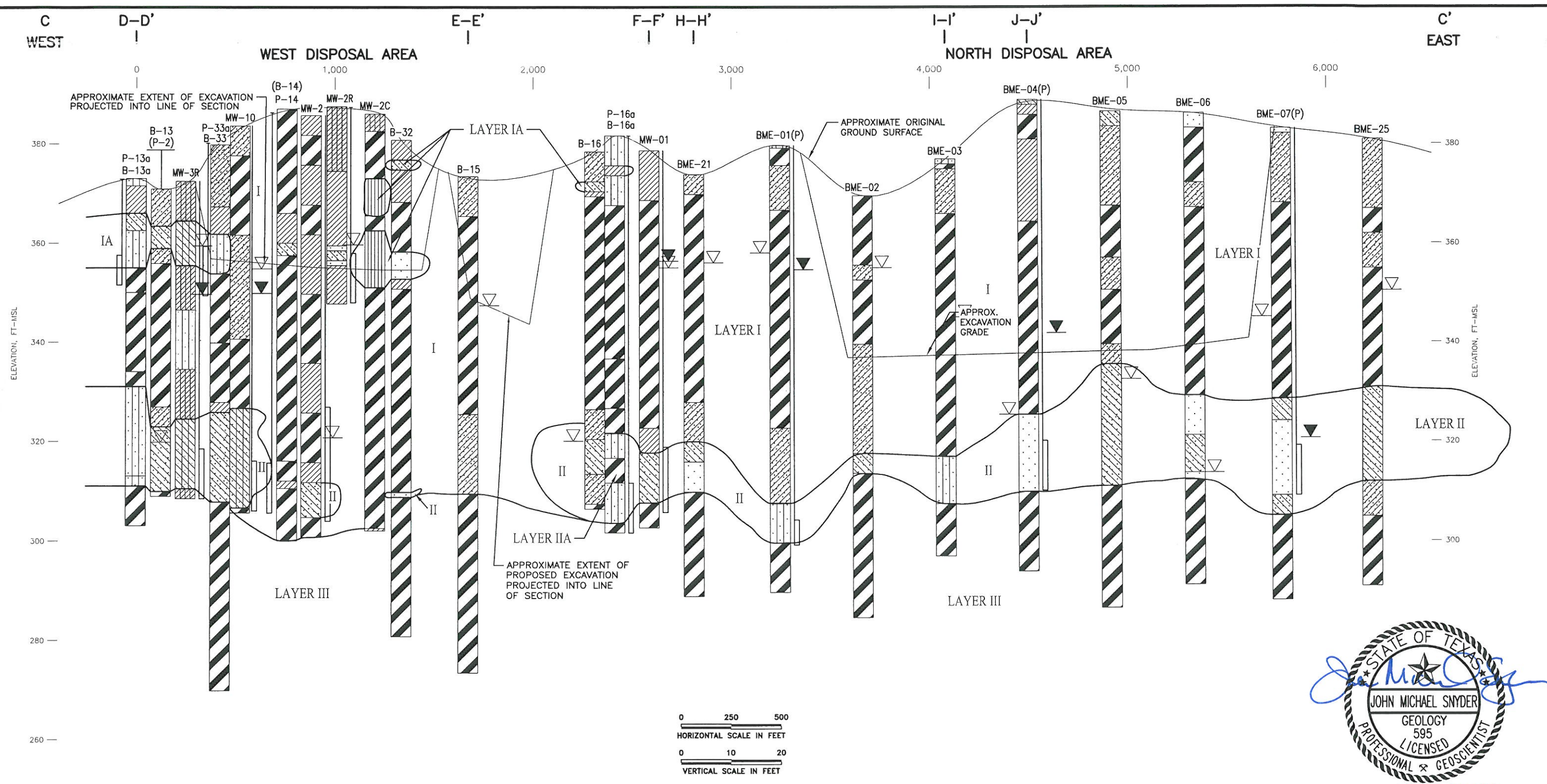
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GEOLOGIC CROSS SECTION B-B'

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LEGEND

CLAY (CH)	SAND	SAND, SILTY W/CLAY
CLAY (CL)	SAND, CLAYEY	GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
CLAY, SANDY	SAND, SILTY	GROUNDWATER LEVEL ON 1/23/2012
CLAY, SILTY	SILT	SCREENED INTERVAL

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, BME BORING LOGS, AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION C-C'

**WASTE MANAGEMENT OF TEXAS, INC.
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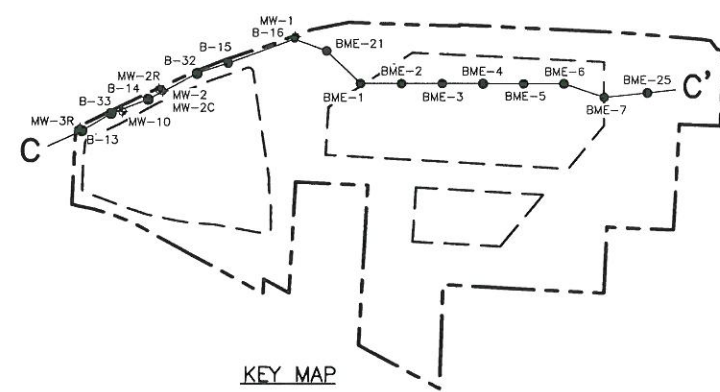
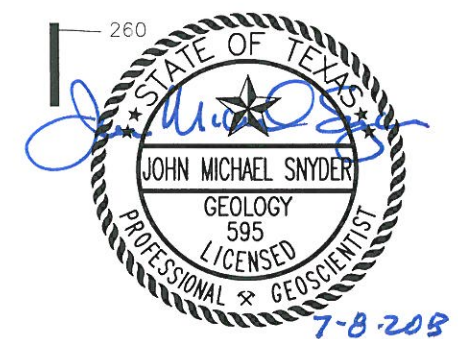
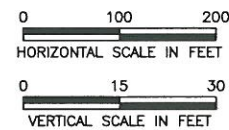
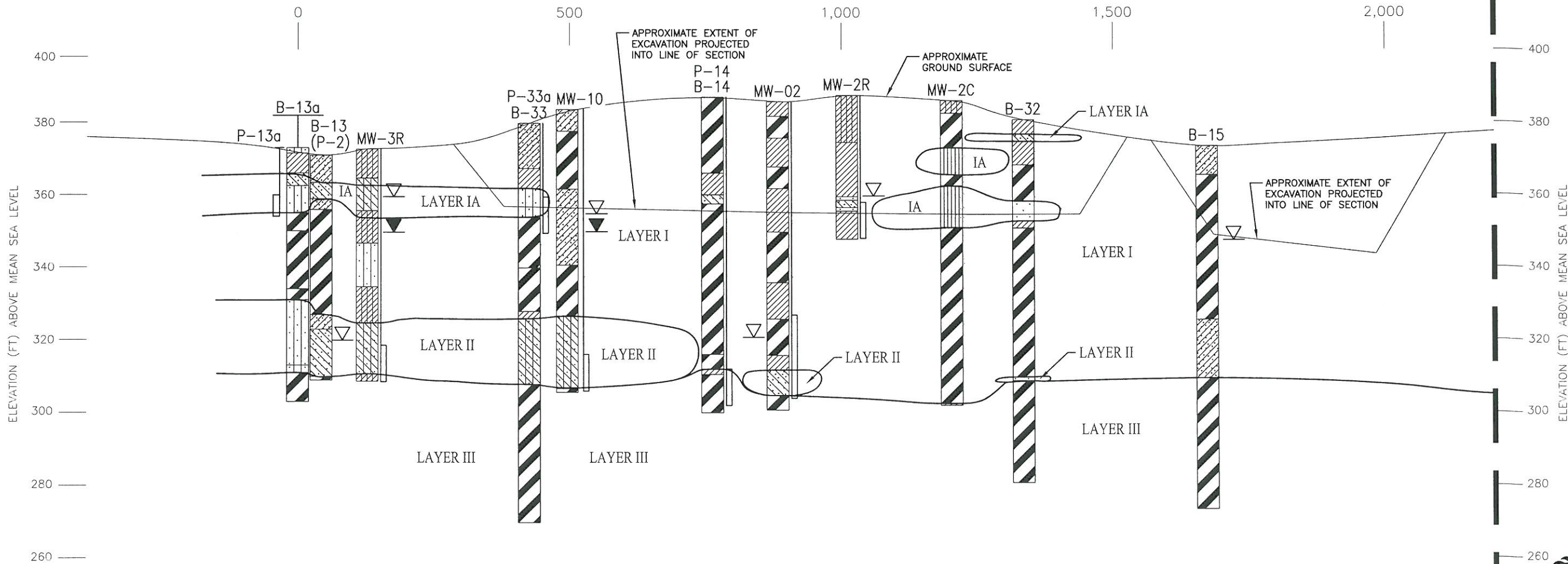
C WEST

D-D'

E-E'

WEST DISPOSAL AREA

FOR CONTINUATION
SEE DRAWING E3-4b



LEGEND

CLAY (CH)	SAND	SAND, SILTY W/CLAY
CLAY (CL)	SAND, CLAYEY	GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
CLAY, SANDY	SAND, SILTY	GROUNDWATER LEVEL ON 1/23/2012
CLAY, SILTY	SILT	SCREENED INTERVAL

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, BME BORING LOGS, AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.

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REVISIONS						
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GEOLOGIC CROSS SECTION C-C'

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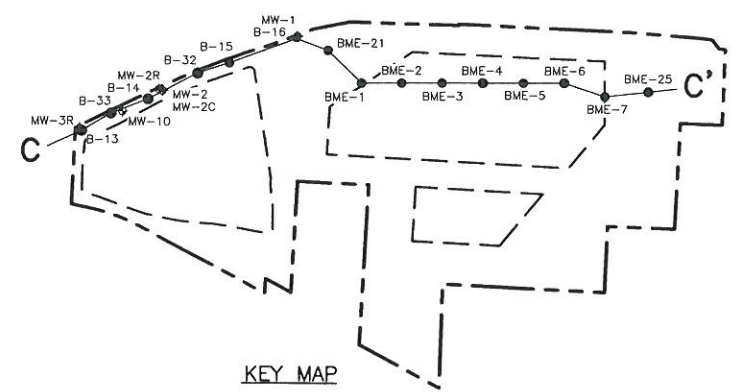
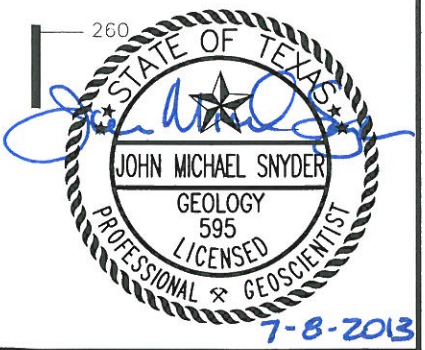
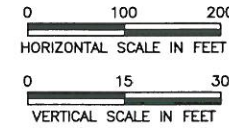
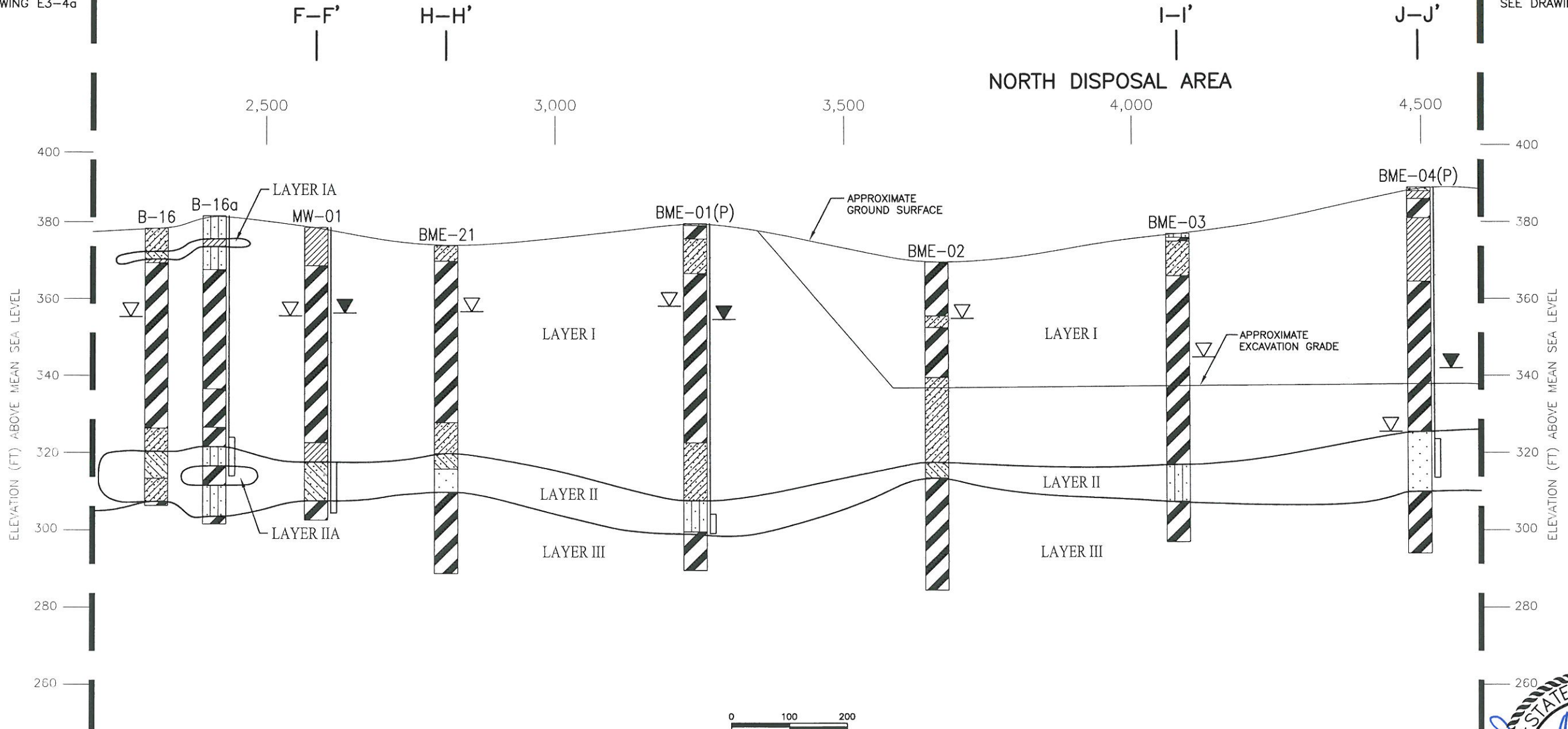
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FOR CONTINUATION
SEE DRAWING E3-4a

FOR CONTINUATION
SEE DRAWING E3-4c



LEGEND

CLAY (CH)	SAND	SAND, SILTY W/CLAY
CLAY (CL)	SAND, CLAYEY	GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
CLAY, SANDY	SAND, SILTY	GROUNDWATER LEVEL ON 1/23/2012
CLAY, SILTY	SILT	SCREENED INTERVAL

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, BME BORING LOGS, AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.

GEOLOGIC CROSS SECTION C-C'

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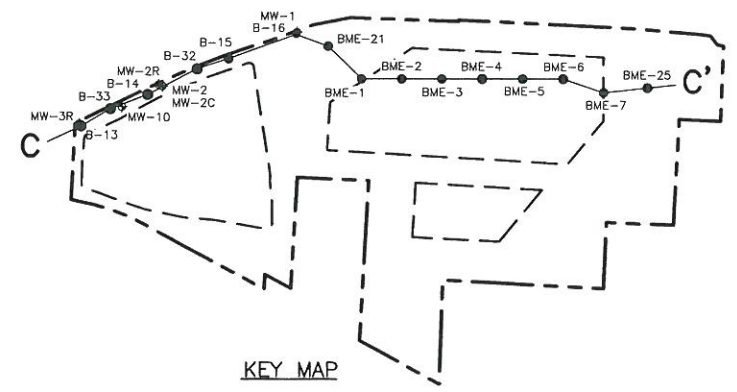
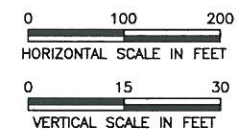
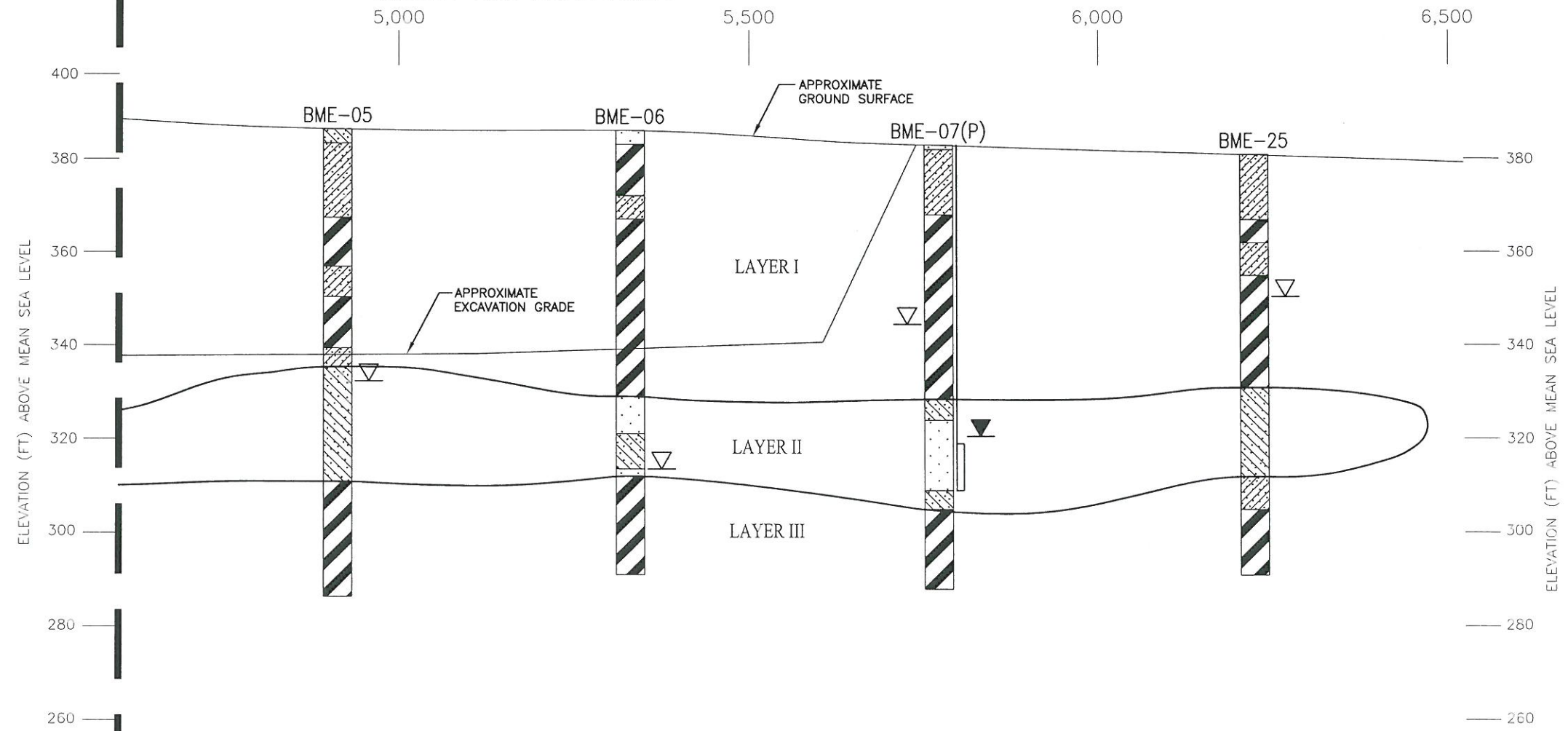
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FOR CONTINUATION
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C'
EAST

NORTH DISPOSAL AREA



LEGEND

CLAY (CH)	SAND	SAND, SILTY W/CLAY
CLAY (CL)	SAND, CLAYEY	GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
CLAY, SANDY	SAND, SILTY	GROUNDWATER LEVEL ON 1/23/2012
CLAY, SILTY	SILT	SCREENED INTERVAL

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, BME BORING LOGS, AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION C-C'

WASTE MANAGEMENT OF TEXAS, INC.
NEW BOSTON LANDFILL
PERMIT AMENDMENT APPLICATION

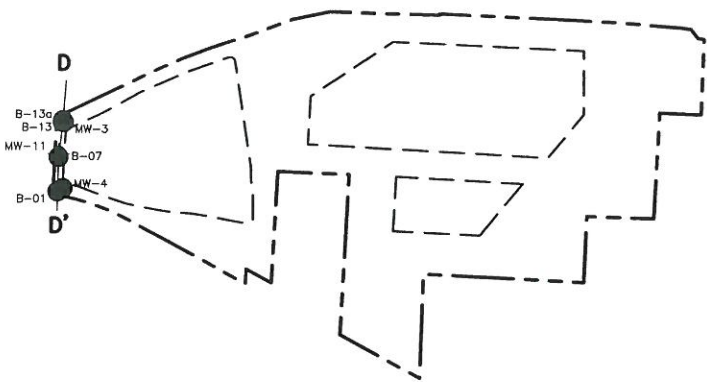
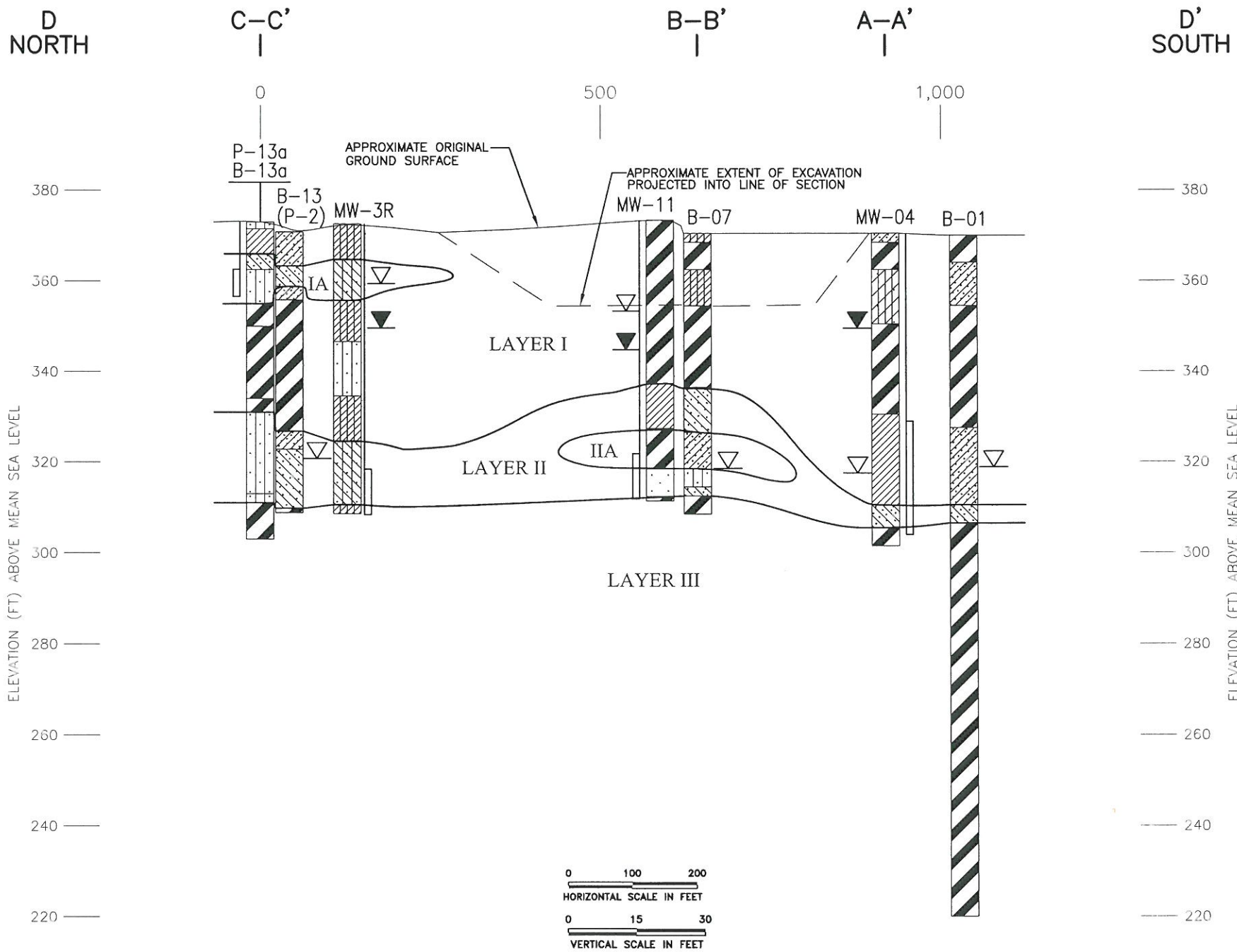
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E3-4c

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KEY MAP

LEGEND

- | | | | | | |
|--|-------------|--|-----------------------|--|---|
| | CLAY (CH) | | CLAY, SILTY WITH SAND | | GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROXIMATE) |
| | CLAY (CL) | | SAND | | GROUNDWATER LEVEL ON 1/23/2012 |
| | CLAY, SANDY | | SAND, CLAYEY | | SCREENED INTERVAL |
| | CLAY, SILTY | | SAND, SILTY | | |

NOTES:

- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS AND BME BORING LOGS.
- DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.
- BORINGS B-13, B-13a AND MW-3 ARE LOCATED IMMEDIATELY ADJACENT TO EACH OTHER. GRAPHICAL SEPARATION IS FOR CONVENIENCE ONLY.



GEOLOGIC CROSS SECTION D-D'

WASTE MANAGEMENT OF TEXAS, INC.
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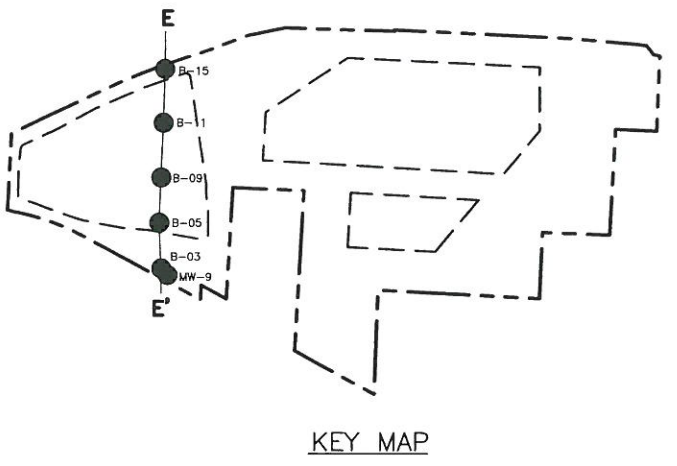
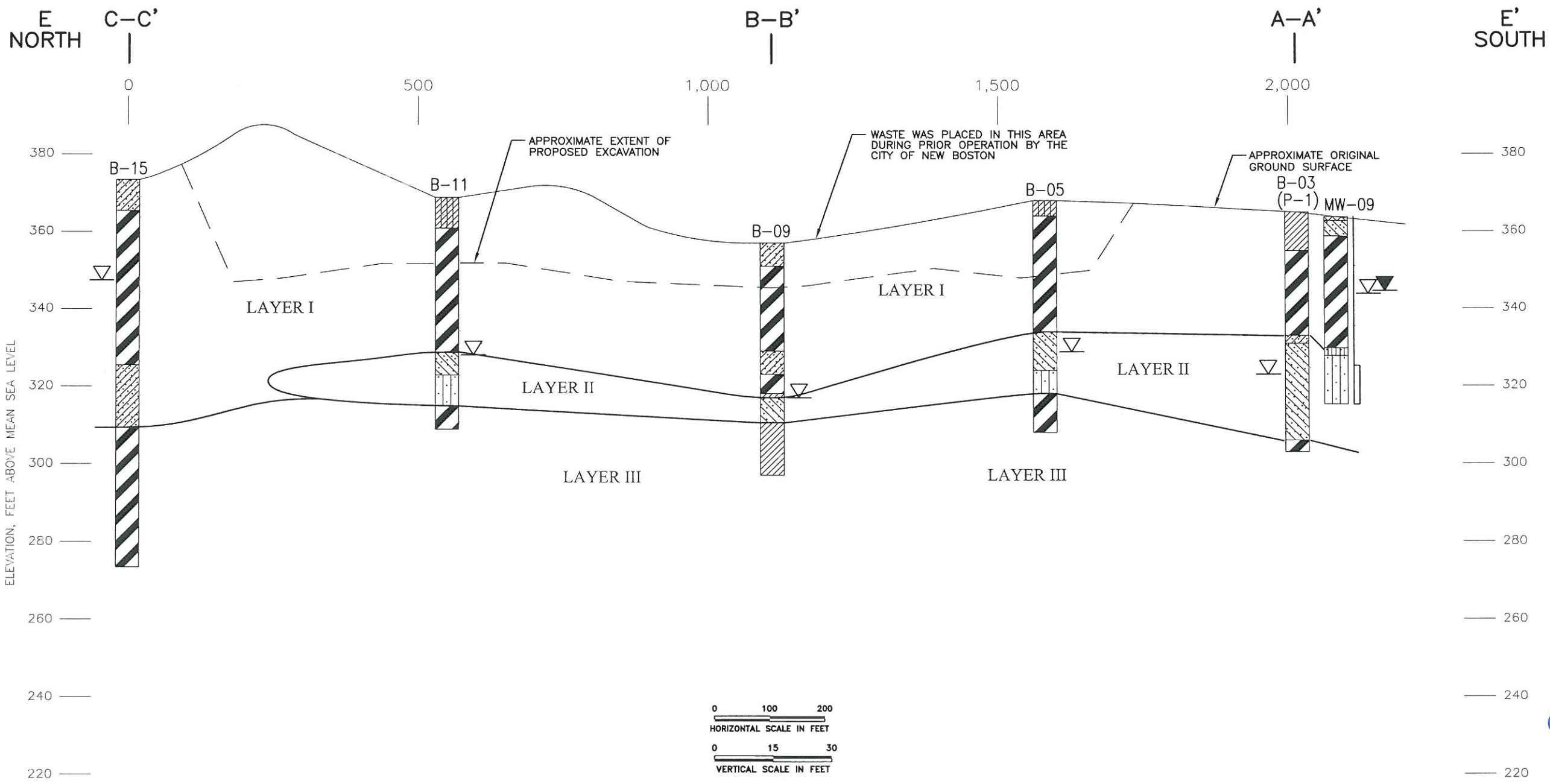
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E3-5

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LEGEND

	CLAY (CH)		FILL		GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROXIMATE)
	CLAY (CL)		SAND, CLAYEY		GROUNDWATER LEVEL ON 1/23/2012
	CLAY, SANDY		SAND, SILTY		SCREENED INTERVAL
	CLAY, SILTY		SILT, SANDY		

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS AND HMA BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION E-E'

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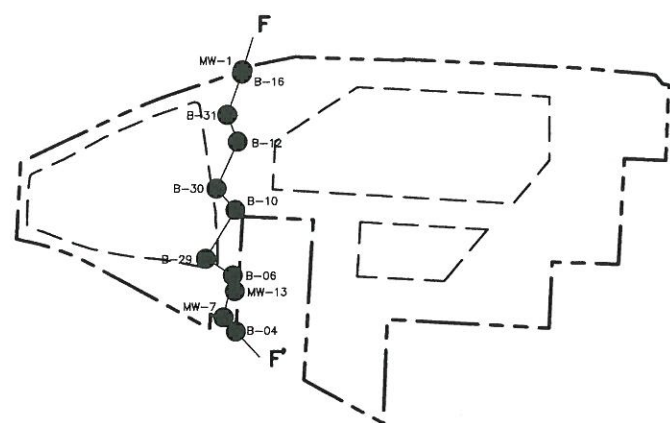
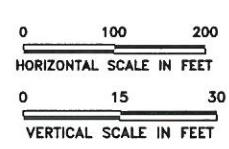
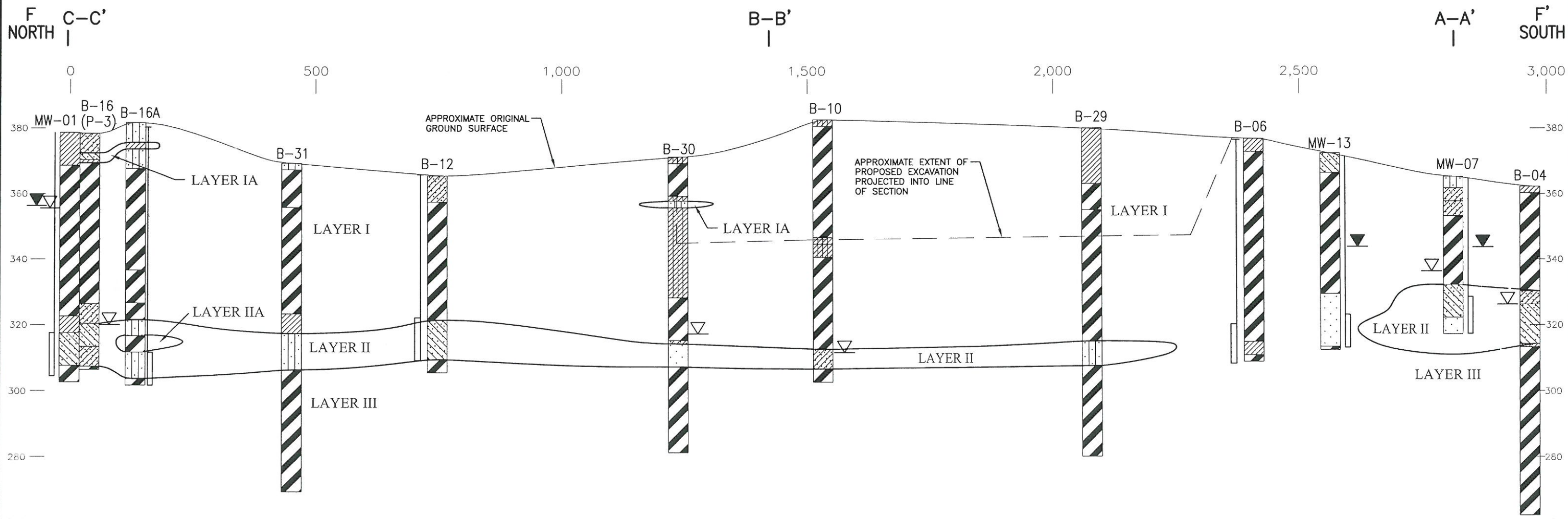
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E3-6**

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LEGEND

	CLAY (CH)		SAND		GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROXIMATE)
	CLAY (CL)		SAND, CLAYEY		GROUNDWATER LEVEL ON 1/23/2012
	CLAY, SILTY		SAND, SILTY		SCREENED INTERVAL
	CLAY, SANDY				

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, HMA BORING LOGS, AND BME BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION F-F'

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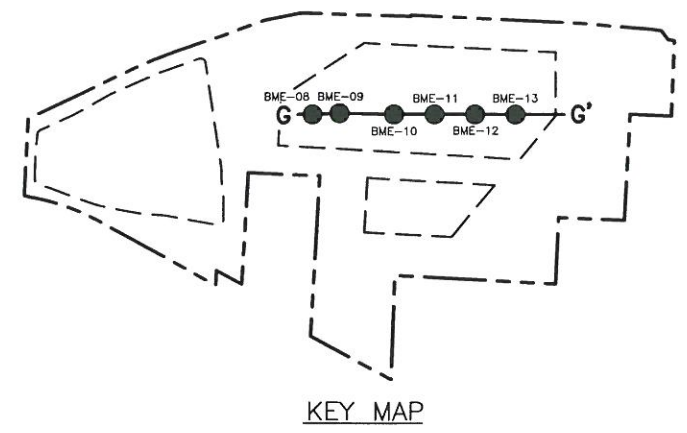
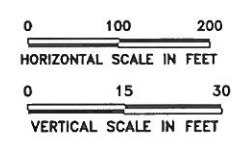
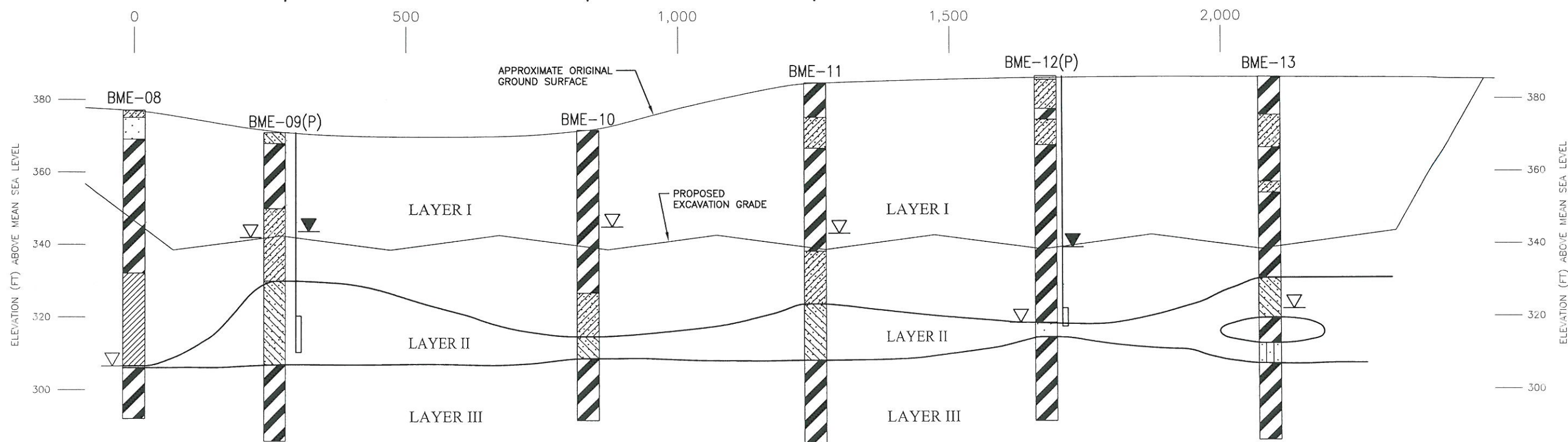
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G WEST

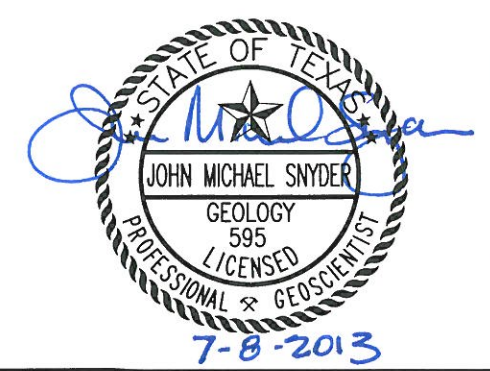
G' EAST



LEGEND

			GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
			GROUNDWATER LEVEL ON 1/23/2012
			SCREENED INTERVAL

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM ESE BORING LOGS, BME BORING LOGS, AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION G - G'

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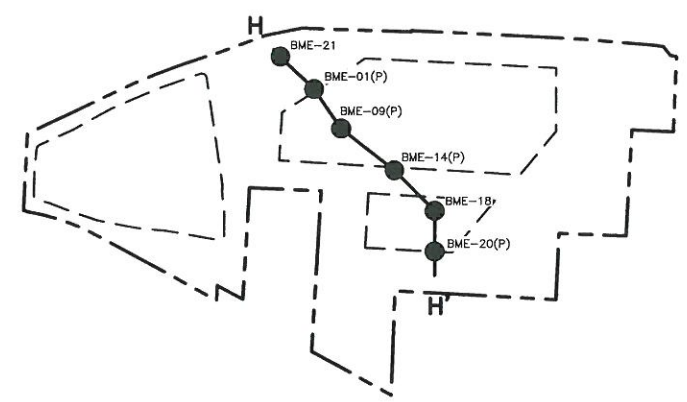
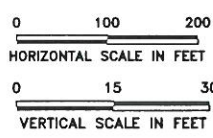
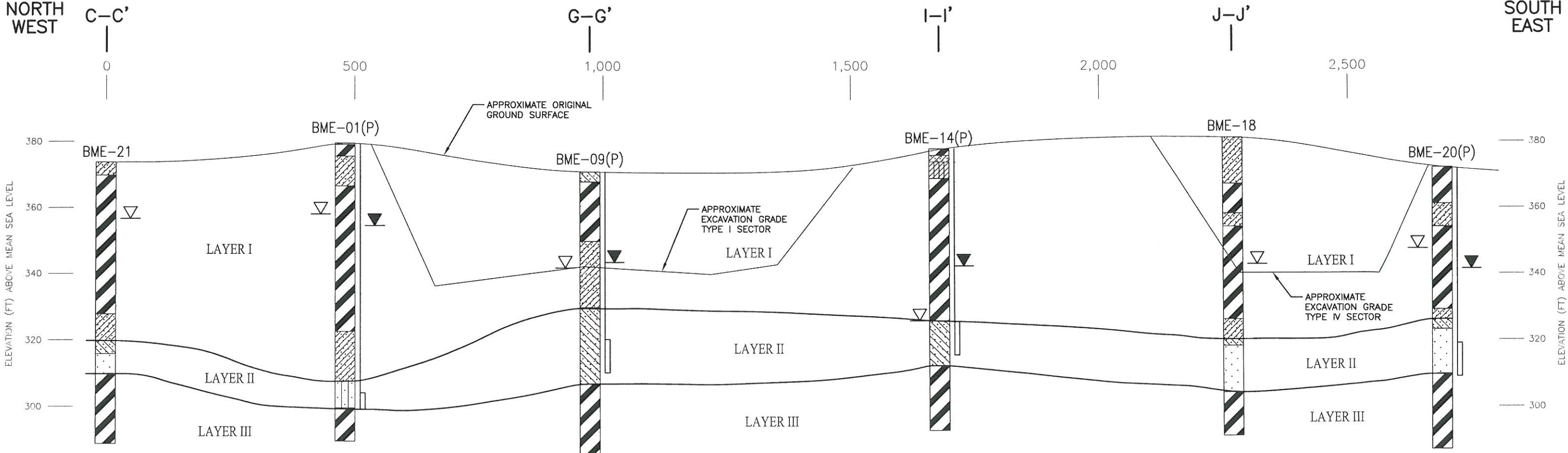
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H
NORTH
WEST

H'
SOUTH
EAST



KEY MAP

LEGEND

CLAY (CH)	SAND, CLAYEY	GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
CLAY, SANDY	SAND, SILTY	GROUNDWATER LEVEL ON 1/23/2012
SAND	SCREENED INTERVAL	

- NOTES:**
- SUBSURFACE LITHOLOGY INTERPRETED FROM BME BORING LOGS AND LANDTEC BORING LOGS.
 - DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



GEOLOGIC CROSS SECTION H - H'
WASTE MANAGEMENT OF TEXAS, INC.
NEW BOSTON LANDFILL
PERMIT AMENDMENT APPLICATION



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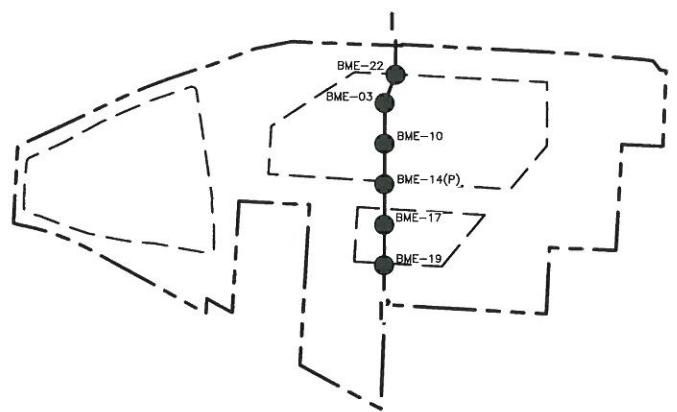
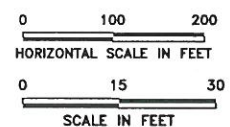
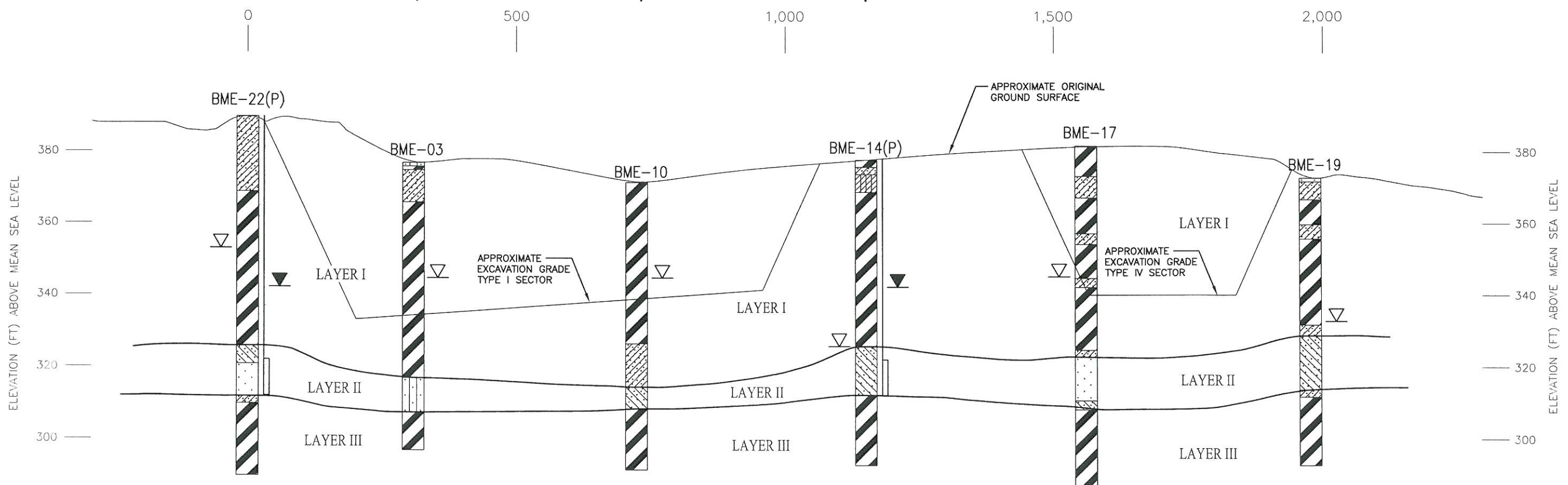
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							CHK. JMS	DWG : E3-9_XSecH-H.dwg	

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I
NORTH

I'
SOUTH



KEY MAP

LEGEND

- CLAY (CH)
- SAND
- GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
- CLAY, SANDY
- SAND, CLAYEY
- GROUNDWATER LEVEL ON 1/23/2012
- CLAY, SILTY
- SAND, SILTY
- SCREENED INTERVAL

NOTES:

1. SUBSURFACE LITHOLOGY INTERPRETED FROM BME BORING LOGS AND LANDTEC BORING LOGS.
2. DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



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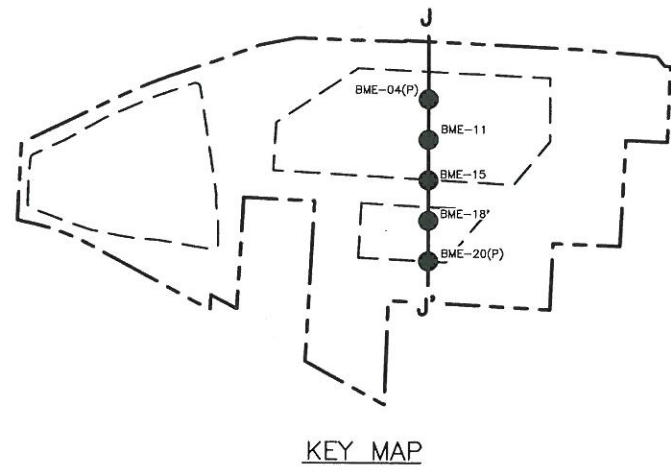
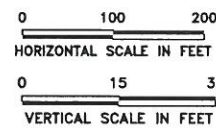
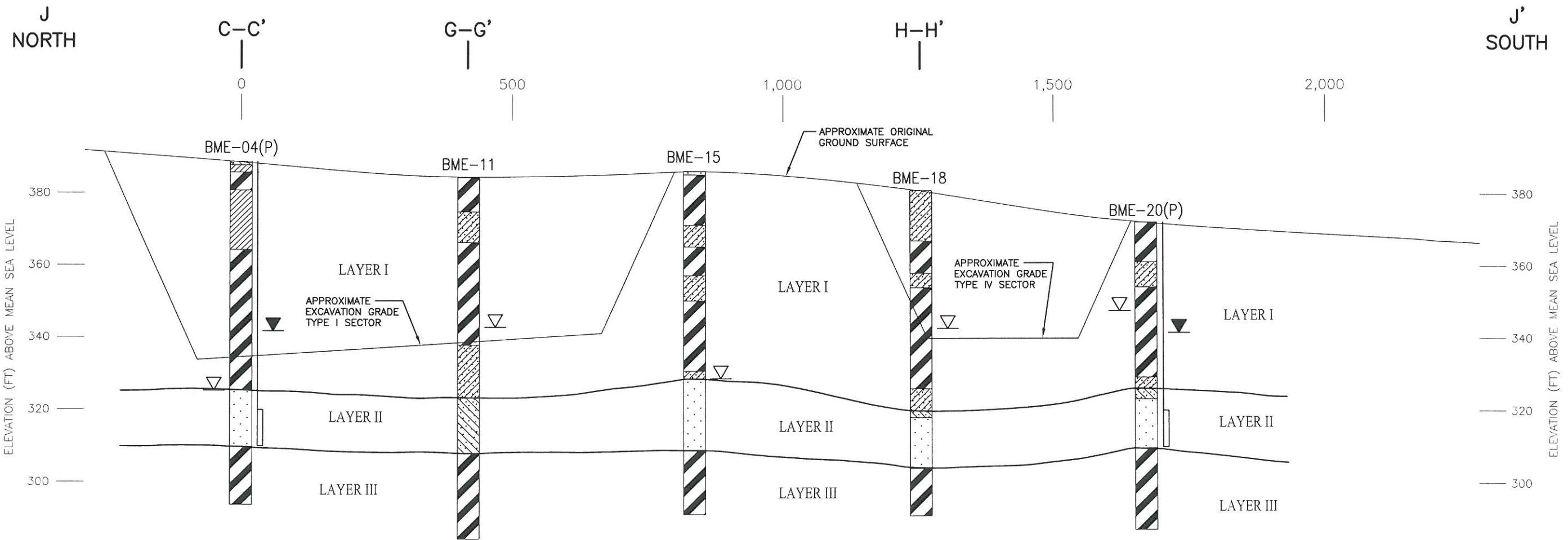
GEOLOGIC CROSS SECTION I - I'

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NEW BOSTON LANDFILL
PERMIT AMENDMENT APPLICATION

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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DRAWING
							E3-10

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KEY MAP

LEGEND

- CLAY (CH)
- CLAY, SANDY
- SAND
- SAND, CLAYEY
- GROUNDWATER FIRST ENCOUNTERED DURING DRILLING (APPROX)
- GROUNDWATER LEVEL ON 1/23/2012
- SCREENED INTERVAL

NOTES:

1. SUBSURFACE LITHOLOGY INTERPRETED FROM BME BORING LOGS AND LANDTEC BORING LOGS.
2. DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED DURING DRILLING NOTED ON LOGS OF BORINGS IN APPENDIX E2 AND IN TABLE E-12 OF ATTACHMENT E.



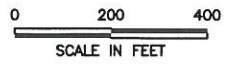
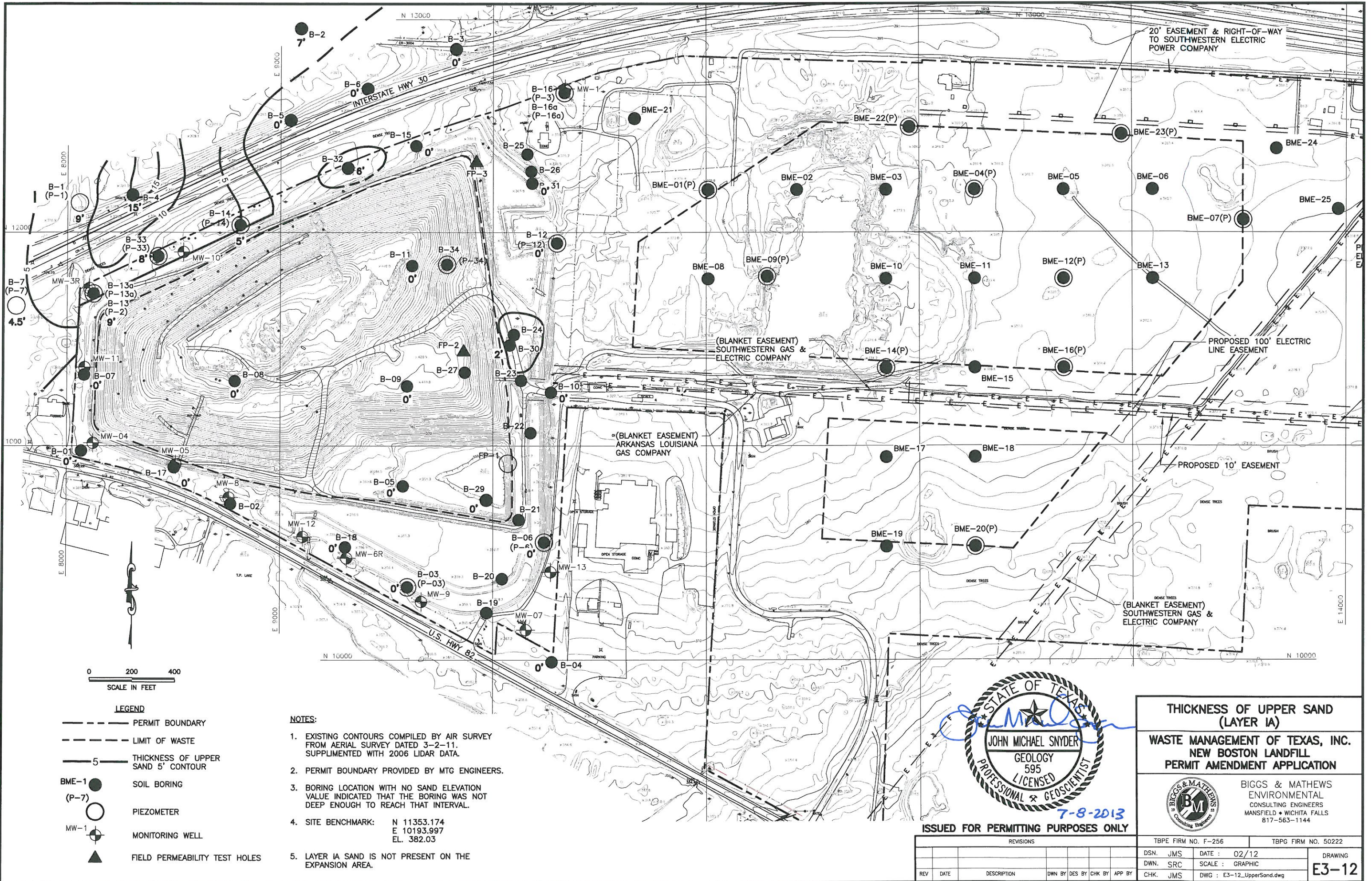
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REVISIONS						
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GEOLOGIC CROSS SECTION J - J'	
WASTE MANAGEMENT OF TEXAS, INC. NEW BOSTON LANDFILL PERMIT AMENDMENT APPLICATION	
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TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
DSN. JMS	DATE : 03/12
DWN. SRC	SCALE : GRAPHIC
CHK. JMS	DWG : E3-11_XSecJ-J.dwg
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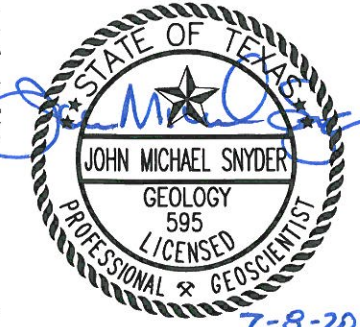
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- LEGEND**
- PERMIT BOUNDARY
 - LIMIT OF WASTE
 - 5' THICKNESS OF UPPER SAND 5' CONTOUR
 - BME-1 ● SOIL BORING
 - (P-7) ○ PIEZOMETER
 - MW-1 ⊕ MONITORING WELL
 - ▲ FIELD PERMEABILITY TEST HOLES

- NOTES:**
1. EXISTING CONTOURS COMPILED BY AIR SURVEY FROM AERIAL SURVEY DATED 3-2-11. SUPPLEMENTED WITH 2006 LIDAR DATA.
 2. PERMIT BOUNDARY PROVIDED BY MTG ENGINEERS.
 3. BORING LOCATION WITH NO SAND ELEVATION VALUE INDICATED THAT THE BORING WAS NOT DEEP ENOUGH TO REACH THAT INTERVAL.
 4. SITE BENCHMARK: N 11353.174
E 10193.997
EL. 382.03
 5. LAYER IA SAND IS NOT PRESENT ON THE EXPANSION AREA.



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THICKNESS OF UPPER SAND (LAYER IA)

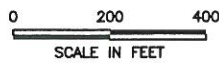
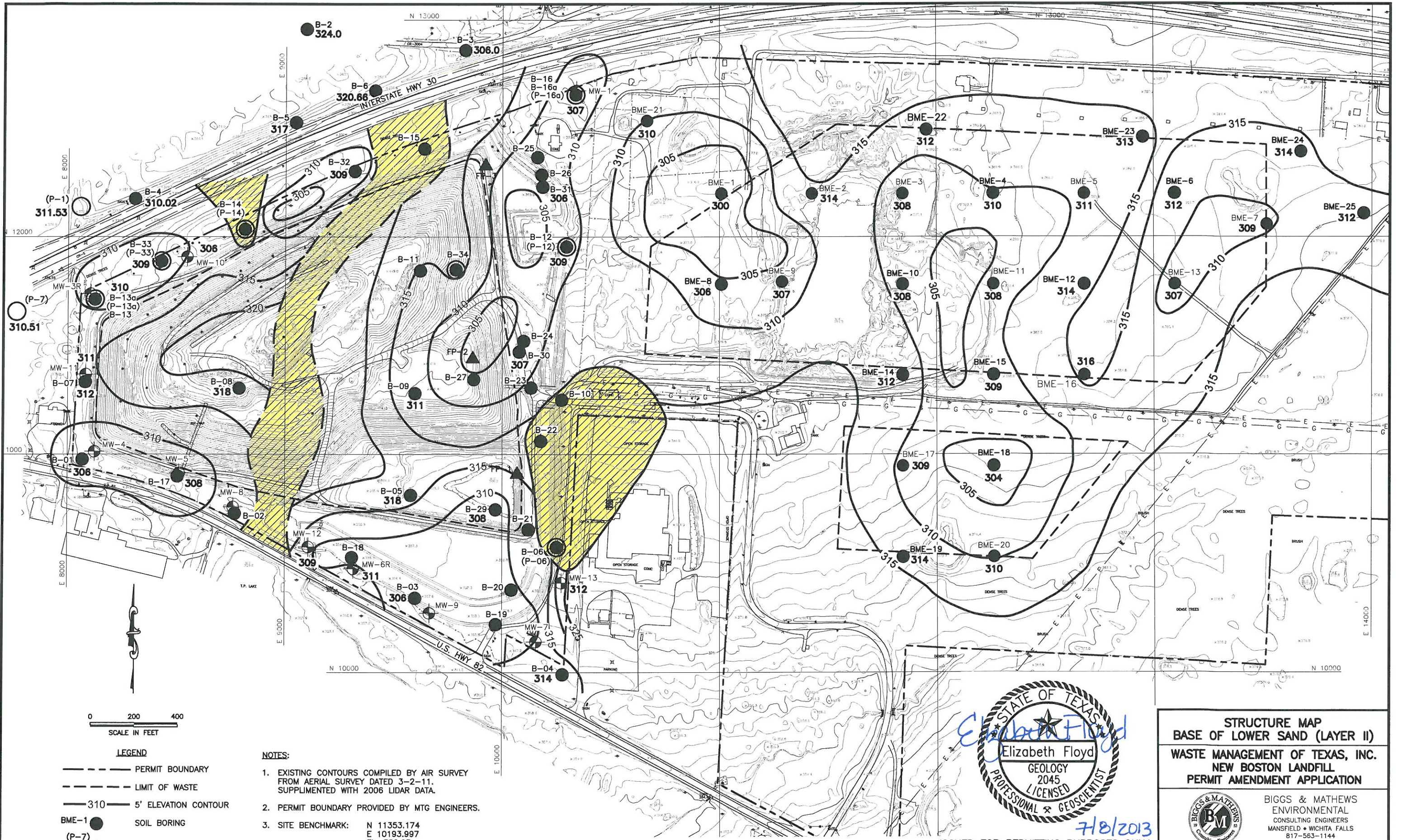
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PERMIT AMENDMENT APPLICATION

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DSN.	JMS	DATE :	02/12
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DRAWING
E3-12

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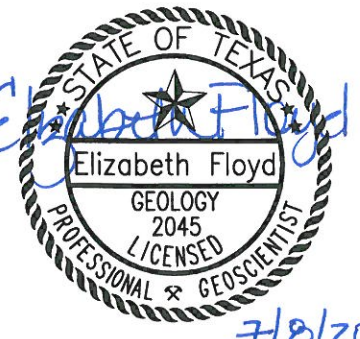
LEGEND

- PERMIT BOUNDARY
- LIMIT OF WASTE
- 310 — 5' ELEVATION CONTOUR
- BME-1 ● SOIL BORING
- (P-7) ○ PIEZOMETER
- MW-1 ⊕ MONITORING WELL

NOTES:

1. EXISTING CONTOURS COMPILED BY AIR SURVEY FROM AERIAL SURVEY DATED 3-2-11. SUPPLEMENTED WITH 2006 LIDAR DATA.
2. PERMIT BOUNDARY PROVIDED BY MTG ENGINEERS.
3. SITE BENCHMARK: N 11353.174
E 10193.997
EL. 382.03

SAND ABSENT



7/8/2013

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**STRUCTURE MAP
BASE OF LOWER SAND (LAYER II)
WASTE MANAGEMENT OF TEXAS, INC.
NEW BOSTON LANDFILL
PERMIT AMENDMENT APPLICATION**



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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	

DSN. EAF DATE : 02/12
DWN. SRC SCALE : GRAPHIC
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E3-14