PERMIT AMENDMENT APPLICATION

VOLUME 3 OF 5

Prepared for

Waste Management of Texas, Inc.

April 2012

August 2012



Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 • Mansfield, Texas 76063 • 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM REGISTRATION NO. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS FIRM REGISTRATION NO. 50222

PERMIT AMENDMENT APPLICATION

VOLUME 3 OF 5

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PART III FACILITY INVESTIGATION AND DESIGN

Attachment D - Waste Management Unit Design



PERMIT AMENDMENT APPLICATION

PART III - FACILITY INVESTIGATION AND DESIGN ATTACHMENT D WASTE MANAGEMENT UNIT DESIGN

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30 TAC §330.63(d)

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Attachment D7 – Liner Quality Control Plan

Attachment D8 - Final Cover Quality Control Plan



Table D-1 Skyline Landfill

Components of the Composite Liner System

Liner System Component	Description	Thickness	
Protective Cover	General earthfill	24 inches	
Leachate Collection Layer	Single-sided geocomposite on floor Double-sided geocomposite on side slopes	0.2 inches	
Geomembrane Liner	Smooth HDPE geomembrane on floor Textured HDPE geomembrane on side slopes	60 mil	
Compacted Soil Liner	Compacted soil with a coefficient of permeability less than or equal to 1 x 10 ⁻⁷ cm/sec	24 inches	

1.7 Final Cover Quality Control Plan

30 TAC §330.457

A quality Quality control plans for the final cover systems is are provided in Attachment D8 – Final Cover Quality Control Plan. Details of the final cover systems are provided in Attachment D3 – Construction Design Details. The components of the final cover system are listed from top to bottom in Table D-2.

Table D-2 Skyline Landfill

Components of the Approved Alternate Final Cover System

Cover System Component	Description Description	Thickness	
Erosion Layer	Soil that is capable of sustaining native plant growth	36 inches	
Drainage Layer	Double-sided geocomposite	0.2 inches	
Infiltration Layer	Compacted soil with a coefficient of permeability less than or equal to 1 x 10 ⁻⁷ cm/sec	18 inches	

Components of the Subtitle D Final Cover System

Cover System Component	Description	Thickness
Erosion Layer	Soil that is capable of sustaining native plant growth	36 inches
Cushion Layer	Geotextile on top slopes only	8 oz/yd2
Drainage Layer	Double-sided geocomposite on side slopes only	0.2 inches
Flexible Membrane cover	Smooth LLDPE or HDPE geomembrane on tope slopes	40 mil (LLDPE)
Infiltration Layer	Textured LLDPE or HDPE geomembrane on side slopes Compacted soil with a coefficient of permeability less than or equal to 1 x 10 ⁻⁷ cm/sec	60 mil (HDPE) 18 inches

2 STORAGE AND TRANSFER UNITS

30 TAC §330.63(d)(1)(A) and (B)

The storage and transfer units will be designed for the rapid processing and minimum detention of solid waste at the facility and will be managed to prevent nuisances and fire hazards. The design of the storage and transfer units will be sufficient to control and contain a worst-case spill or release from the units and the unenclosed areas associated with the units, and will account for precipitation from the 25-year, 24-hour rainfall event. The storage and transfer units include the large item storage area, reusable materials staging area, citizen's convenience area, leachate storage facility, bioremediation treatment pad, mud grate facility, and liquid stabilization area.

2.1 Large Item Storage

A storage area for large items and white goods may be provided near the active working face. Large items and white goods include ovens, dishwashers, freezers, air conditioners, and other large items. Any rainfall runon or runoff near the active working face will be contained within the active area and handled as contaminated water, as discussed in Part IV – Site Operating Plan. These items will be recycled every 180 days or less, or disposed at the active working face within 180 days of acceptance at the facility. Large items that are not recycled will be disposed of at the working face. The procedures for the acceptance, storage, processing, and disposal of large items, including items containing chlorinated fluorocarbons, are addressed in Part IV – Site Operating Plan.

2.2 Reusable Materials Staging Area

Inert materials such as brick, concrete, asphalt, shingles, etc., and non-inert materials such as asphalt and shingles, are often received and staged at the facility for use as roadbase materials for facility access roads and staging areas or erosion control in drainage structures. Shingles will not be used for facility access roads. The reusable materials staging area will be located above existing lined areas and will be relocated periodically as the active working face moves. The size of the stockpiles may vary depending on the amount of inert materials received at any given time. Since these the brick and concrete materials are inert, their storage will not create a public health hazard or nuisance and runon and runoff from rainfall will not be controlled in a special manner for these materials. Since asphalt and shingles are not inert materials, they will be managed in a manner that will prevent runoff or contaminated water, discharge of waste, or the creation of nuisance conditions. Also, since Since these inert and non-inert materials will continuously be reused for site operations, there is no time limit on the storage of these materials.

2.3 Citizen's Convenience Area

A citizen's convenience area for waste drop-off is located within the site entrance facilities, as shown in Attachment D1 – Landfill Unit Design – Site Layout Plan, Drawing D1.5 – Entrance Road and Entrance Facilities Plan. Thirty to forty cubic yard roll-off containers as well as containers for recycled goods may be provided. Roll-off containers will be emptied at the active working face or covered with a tarp at the end of each day. Operational procedures for the citizen's convenience center are addressed in Part IV – Site Operating Plan.

2.4 Leachate Storage Facility

Primary leachate storage will be provided by the leachate sumps, which are located within each landfill cell. Leachate will be pumped from the sumps through a leachate forcemain to a direct connection to publicly owned treatment works (POTW). Leachate passes through existing storage tanks which Existing storage tanks provide a minimum of approximately 38 hours of temporary leachate storage in the event that the direct connection to the POTW is not functional. The storage tanks will be emptied from the tanks into tanker trucks for transport based on leachate production and storage needs in the event that they are used.

The leachate storage facility is located near the maintenance facility, as shown in Attachment D1 – Landfill Unit Design – Site Layout Plan, Drawing D1.5 – Entrance Road and Entrance Facilities Plan. The storage facility consists of one 24,500-gallon storage tank and one 17,000-gallon storage tank. The calculations in Appendix D6-D – Secondary Containment Volume Calculations demonstrate that the secondary containment area provides containment, with 6 inches of freeboard, for the storage tanks and precipitation from the 25-year, 24-hour storm event.

2.5 Bioremediation Treatment Pad

A bioremediation treatment pad for petroleum contaminated materials is located within the future waste fill area, as shown in Attachment D1 – Landfill Unit Design – Site Layout Plan, Drawing D1.5 – Entrance Road and Entrance Facilities Plan. The treatment pad is constructed with a minimum 18-inch-thick compacted clay liner and is surrounded by a compacted clay containment berm. The containment berm is sized for precipitation from the 25-year, 24-hour storm event. Water that comes into contact with the contaminated soils will be handled as contaminated water, as discussed in Part IV – Site Operating Plan. Tarps may be placed over the contaminated soils to minimize the volume of contaminated water. Treatment procedures, testing requirements and material disposal are described in Part IV – Site Operating Plan, Appendix IVD – Bioremediation Treatment Plan.

2.6 Mud Grate Facility

The mud grate is located along the entrance road, as shown in Attachment D1 – Landfill Unit Design – Site Layout Plan, Drawing D1.5 – Entrance Road and Entrance Facilities Plan. The mud grate is a concrete structure with a series of metal grates that function as mud removal devices. As vehicles drive across the mud grate, mud from tires drops through the grates into a mud box. The accumulated mud is periodically removed from the mud box and placed in the active working face.

2.7 Liquid Waste Stabilization Area

Sludges, grease trap waste, grit trap waste, Class 2 or Class 3 liquid industrial waste, liquid waste from drilling activities, or liquid wastes from municipal sources may be accepted at the Skyline Landfill. Refer to Part IV, Appendix IVB — Special Waste Acceptance Plan. The facility may perform on-site liquid processing/stabilization of sludges, grease trap wastes, grit trap wastes, Class 2 or Class 3 liquid industrial wastes, liquid waste from drilling activities or liquids from municipal sources. Stabilization of liquids in this context is the addition of drying or bulking agents as described below to liquids waste so that the mixture passes the paint filter test. The facility will provide a stabilization basin placed within an existing lined cell. The basin will be secured during waste placement operations and soil will be graded around the basin to ensure that stormwater runoff is directed away from the basin. The container will be placed so that a minimum of one foot of the container extends above the surrounding soil. The bottom of the container will be at least 10 feet above the top of the protective cover soil component of the lining system and founded in the waste.

Once the basin is in place, trucks will discharge directly into the basin. Lime, fly ash, cement kiln dust, Portland cement, sawdust, dirt, auto fluff, or any combination of these materials may be used for liquid stabilization. Mixing will be accomplished with a backhoe or other appropriate machinery. Each batch of stabilized material will be tested for free liquids in accordance with Method 9095 (Paint Filter Liquids Test), as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA Publication Number SW-846), as amended. Upon verification of the stabilized material passing the paint filter test, the mixture will be removed from the basin and deposited in the active face for landfilling on the day it is received. The procedures for acceptance, processing, odor control, and stabilizing liquid wastes accepted at the facility are addressed in Part IV — Site Operating Plan, Appendix IVE — Liquid Stabilization Plan.

PERMIT AMENDMENT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN ATTACHMENT D1 LANDFILL UNIT DESIGN – SITE LAYOUT PLAN

Prepared for

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April 2012

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BIGGS & MATHEWS ENVIRONMENTAL

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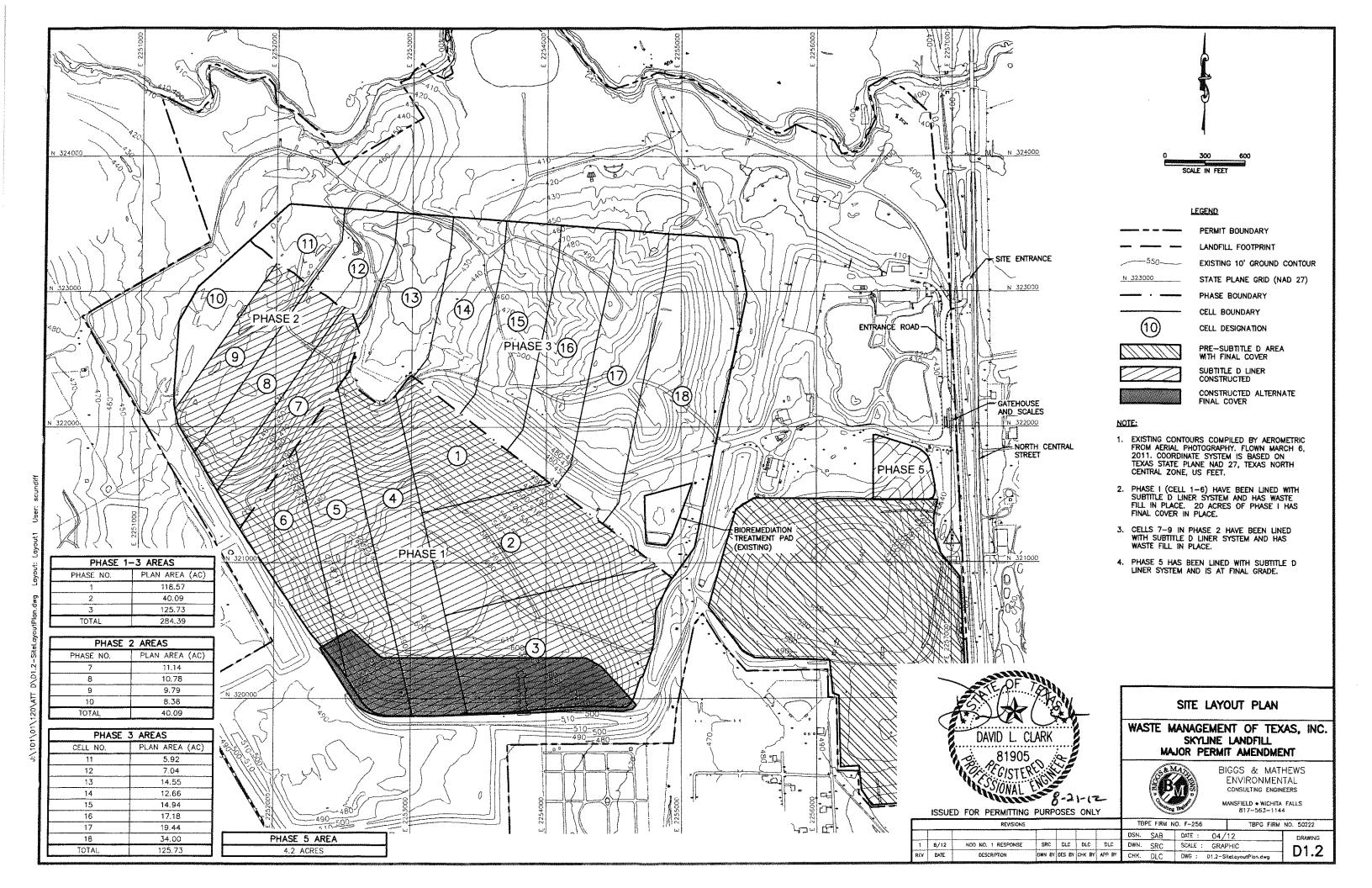
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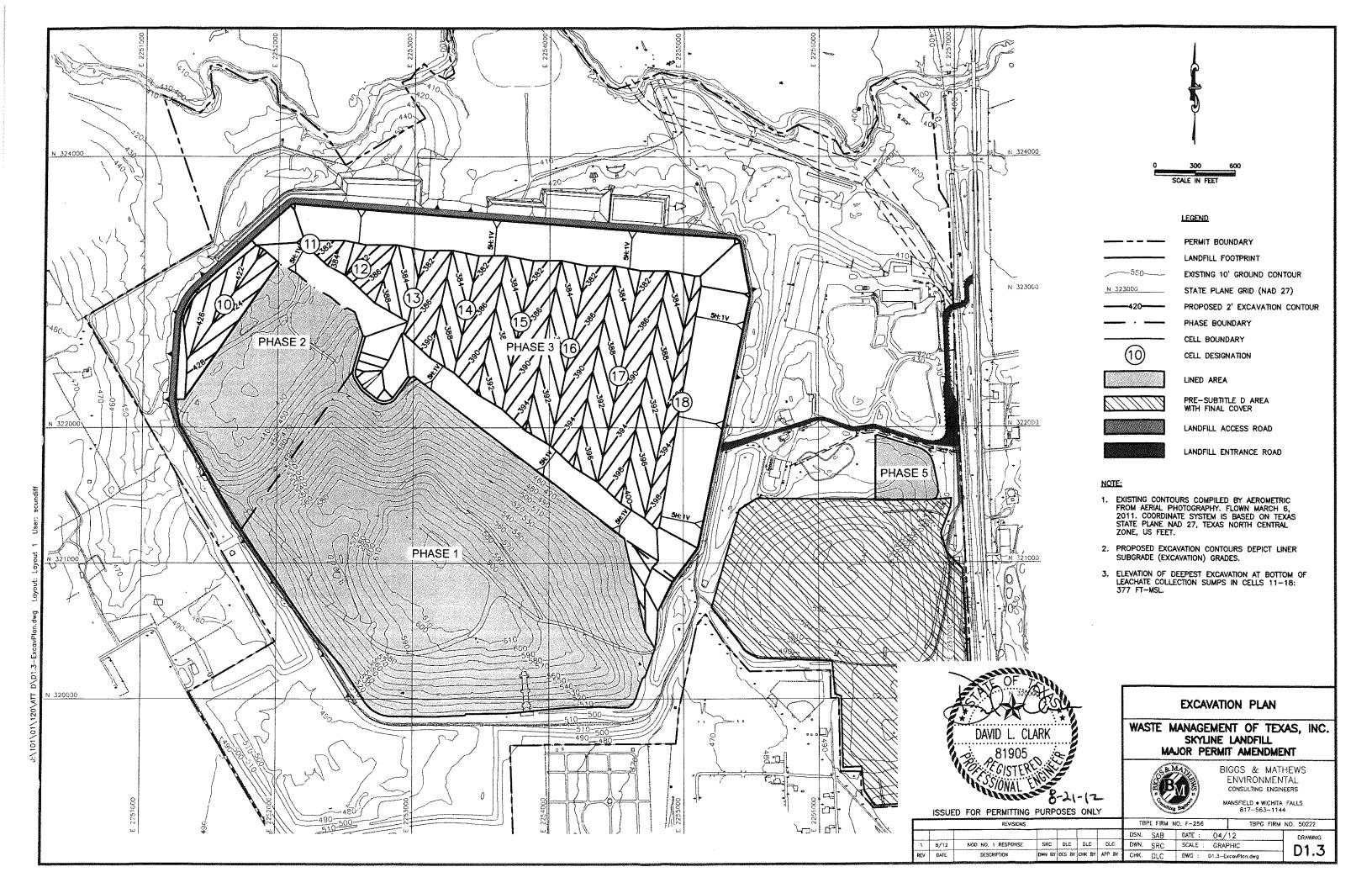
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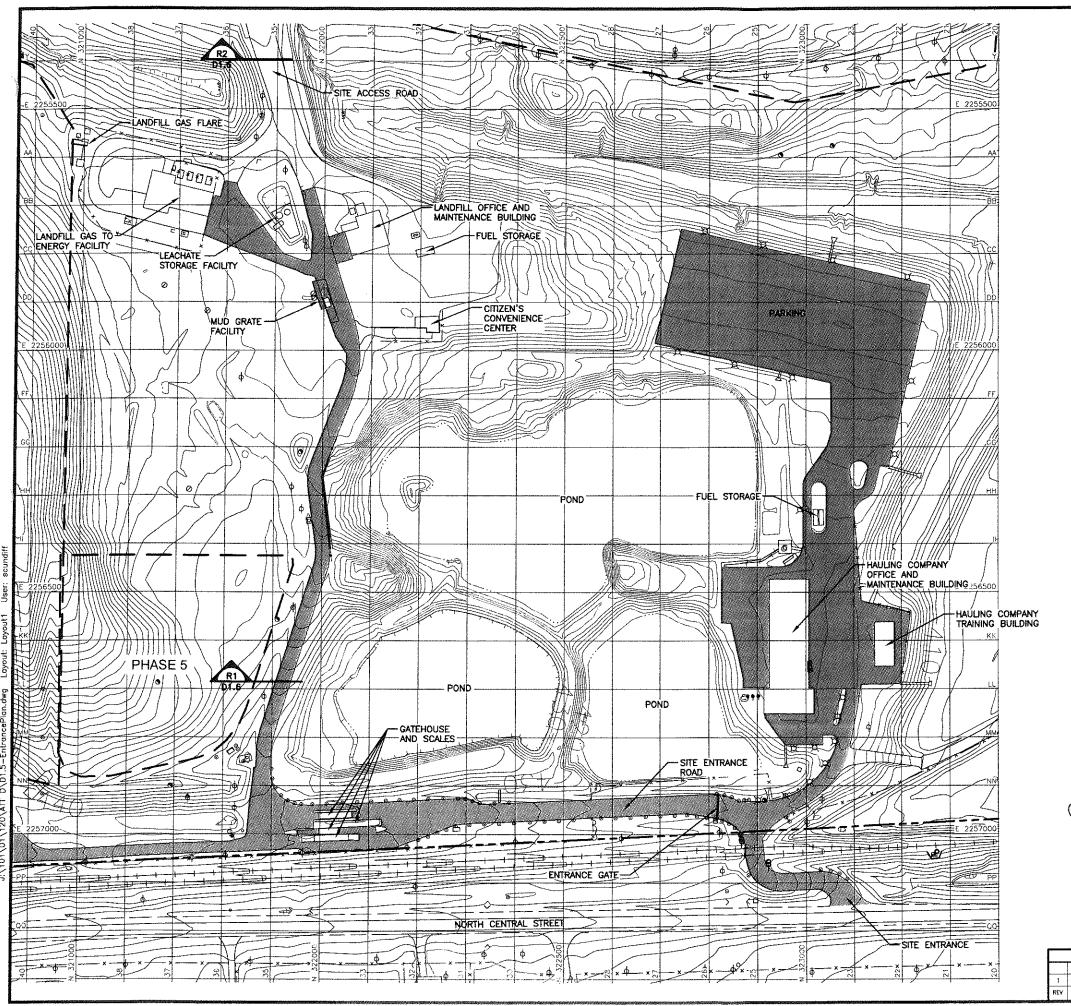
30 TAC §330.63(d)

- D1.1 General Site Plan
- D1.2 Site Layout Plan
- D1.3 Excavation Plan
- D1.4 Landfill Completion Plan
- D1.5 Entrance Road and Entrance Facilities Plan
- D1.6 Landfill Road Details

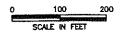




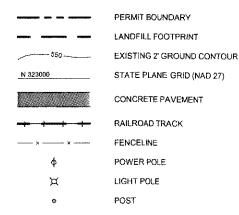








LEGEND



NOTES:

- EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL PHOTOGRAPHY. FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL ZONE, US FEET.
- 2. ALL FACILITIES SHOWN ON THIS PLAN ARE EXISTING.



WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT

ENTRANCE ROAD AND ENTRANCE FACILITIES PLAN



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PERMIT AMENDMENT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN ATTACHMENT D2 CROSS SECTIONS

Prepared for

Waste Management of Texas, Inc.

April 2012

Revised August 2012



Prepared by

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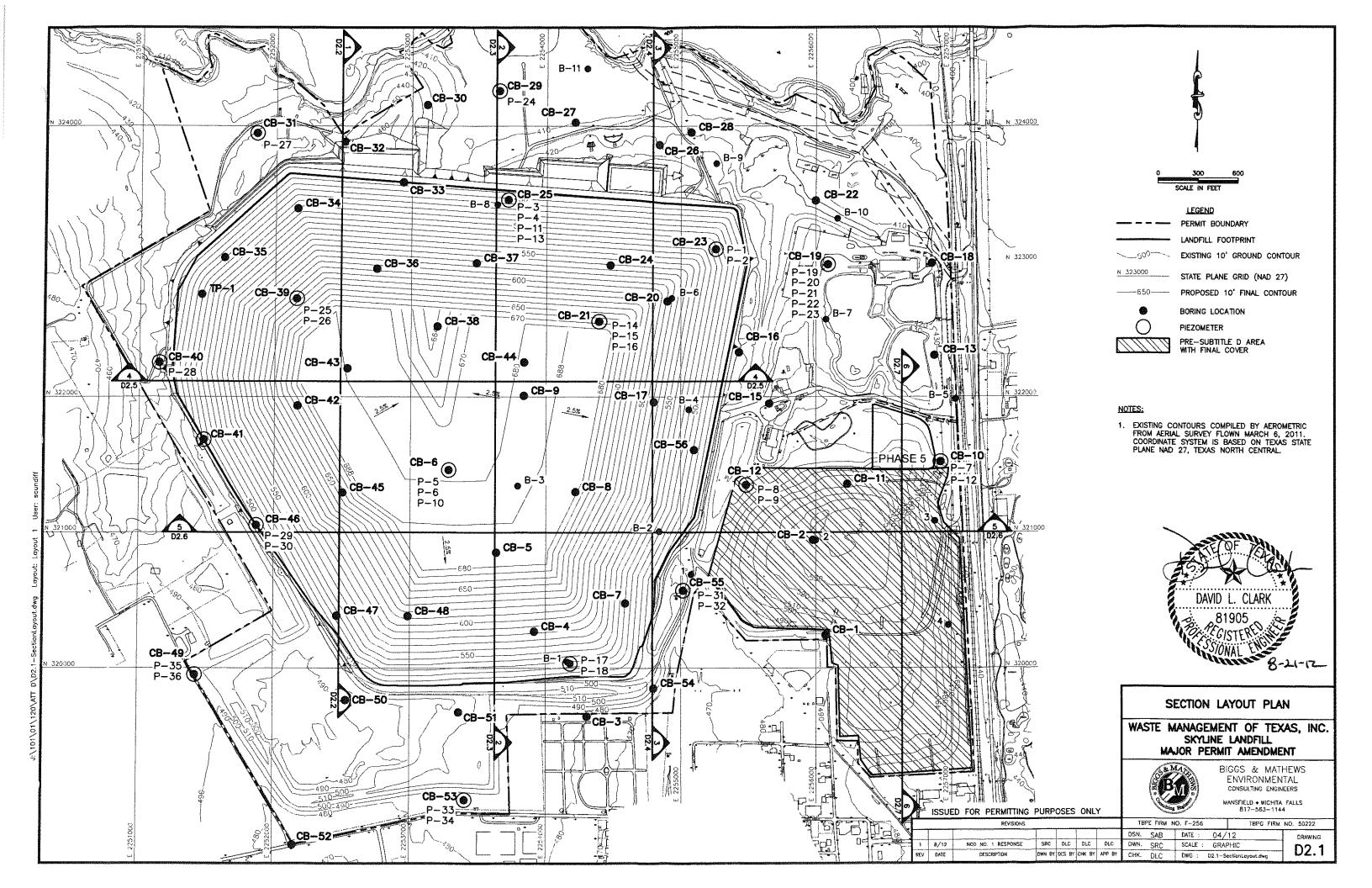
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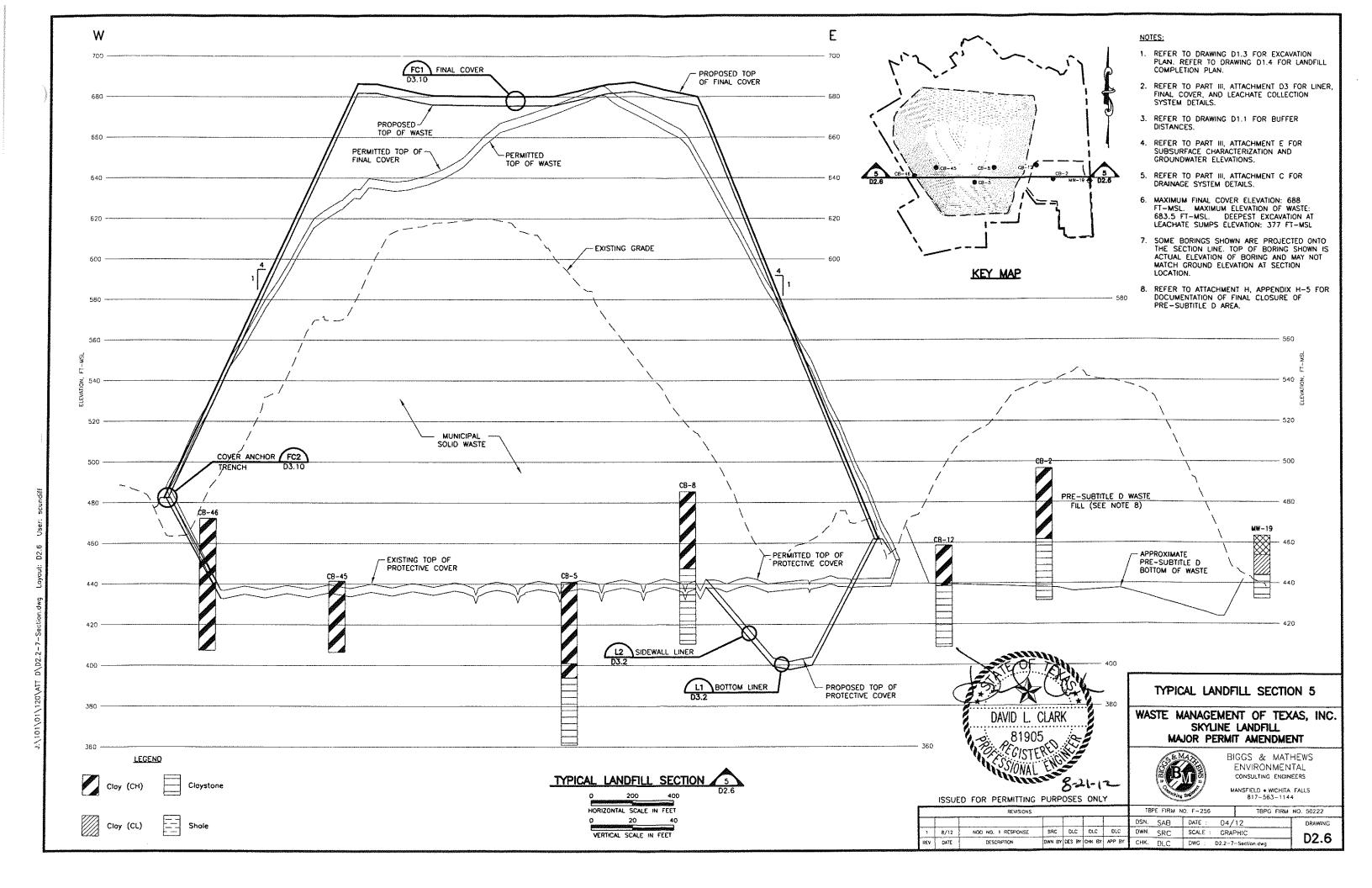
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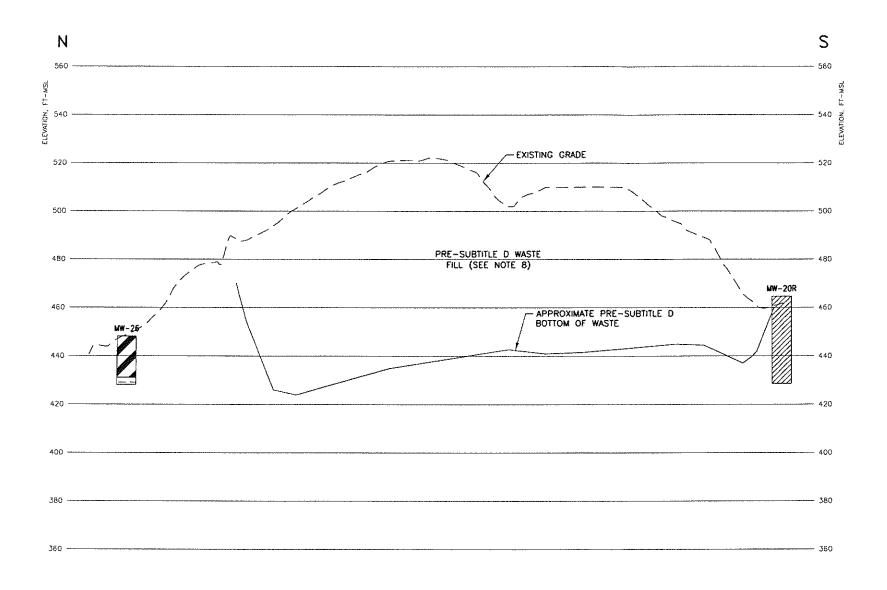
30 TAC §330.63(d)(4)(E)

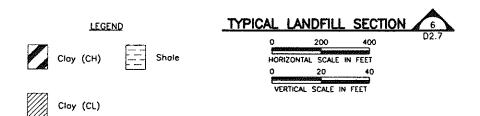
- D2.1 Section Layout Plan
- D2.2 Typical Landfill Section 1
- D2.3 Typical Landfill Section 2
- D2.4 Typical Landfill Section 3
- D2.5 Typical Landfill Section 4
- D2.6 Typical Landfill Section 5
- D2.7 Typical Perimeter Section Landfill Section 6
- D2.8 Typical Perimeter Section

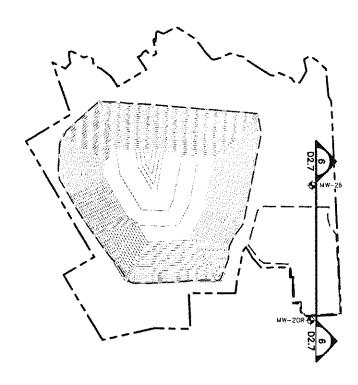












NOTES:

- 1. REFER TO DRAWING D1.3 FOR EXCAVATION PLAN.
 REFER TO DRAWING D1.4 FOR LANDFILL COMPLETION
 PLAN
- REFER TO PART III, ATTACHMENT D3 FOR LINER, FINAL COVER, AND LEACHATE COLLECTION SYSTEM DETAILS.
- 3. REFER TO DRAWING D1.1 FOR BUFFER DISTANCES.
- 4. REFER TO PART III, ATTACHMENT E FOR SUBSURFACE CHARACTERIZATION AND GROUNDWATER ELEVATIONS.
- 5. REFER TO PART III, ATTACHMENT C FOR DRAINAGE SYSTEM DETAILS.
- MAXIMUM FINAL COVER ELEVATION: 688 FT-MSL. MAXIMUM ELEVATION OF WASTE: 683.5 FT-MSL. DEEPEST EXCAVATION AT LEACHATE SUMPS ELEVATION: 377 FT-MSL
- SOME BORINGS SHOWN ARE PROJECTED ONTO THE SECTION LINE. TOP OF BORING SHOWN IS ACTUAL ELEVATION OF BORING AND MAY NOT MATCH GROUND ELEVATION AT SECTION LOCATION.
- REFER TO ATTACHMENT H, APPENDIX H-5 FOR DOCUMENTATION OF FINAL CLOSURE OF PRE-SUBTITLE D AREA.



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TYPICAL LANDFILL SECTION 6

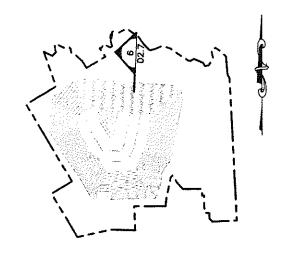
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT



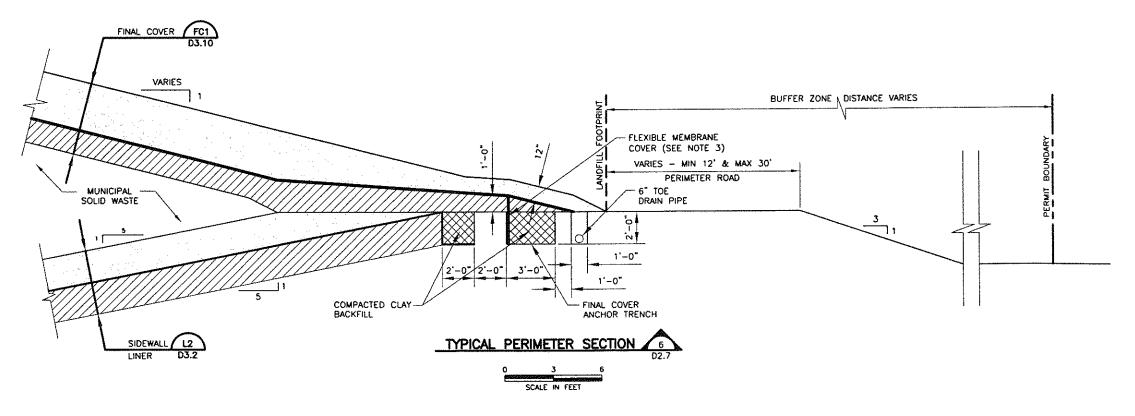
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KEY MAP



NOTES

- REFER TO DRAWING D1.3 FOR EXCAVATION PLAN.
 REFER TO DRAWING D1.4 FOR LANDFILL COMPLETION
 PLAN.
- REFER TO ATTACHMENT D3 FOR LINER, FINAL COVER, AND LEACHATE COLLECTION SYSTEM DETAILS.
- FOR SUBTITLE D FINAL COVER, FLEXIBLE MEMBRANE COVER TO BE TERMINATED IN BOTTOM OF FINAL COVER ANCHOR TRENCH,



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TYPICAL PERIMETER SECTION

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PERMIT AMENDMENT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN ATTACHMENT D3 CONSTRUCTION DESIGN DETAILS

Prepared for

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April 2012

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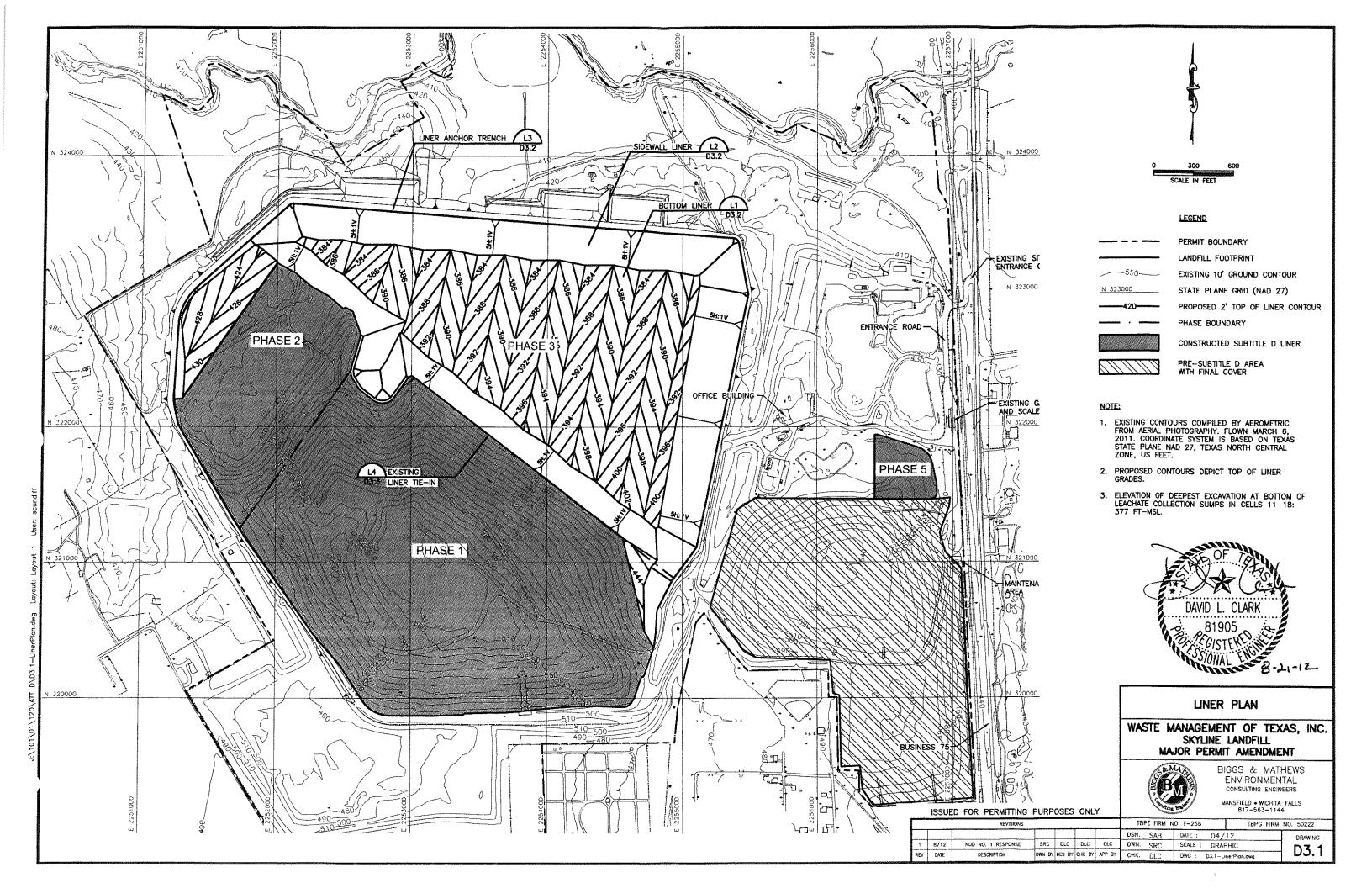
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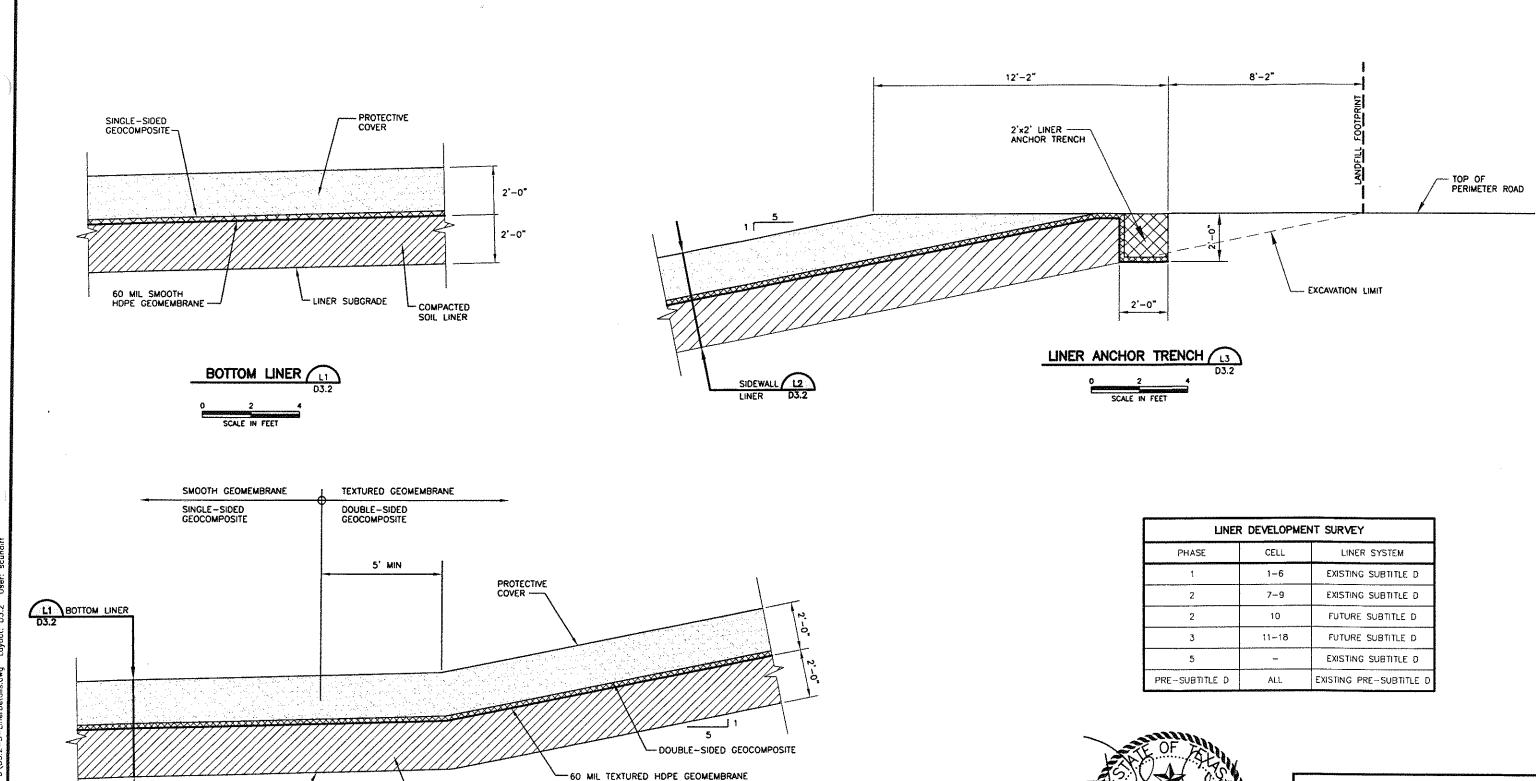
CONTENTS

30 TAC §330.63(d)(4)(F)

- D3.1 Liner Plan
- D3.2 Liner Details
- D3.3 Liner Details
- D3.4 Leachate Collection System Plan
- D3.5 Leachate Collection System Details
- D3.6 Leachate Collection System Details
- D3.7 Temporary Dewatering Plan
- D3.8 Underdrain Details
- D3.9 Final Cover Plan
- D3.10 Final Cover Details









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LINER DETAILS

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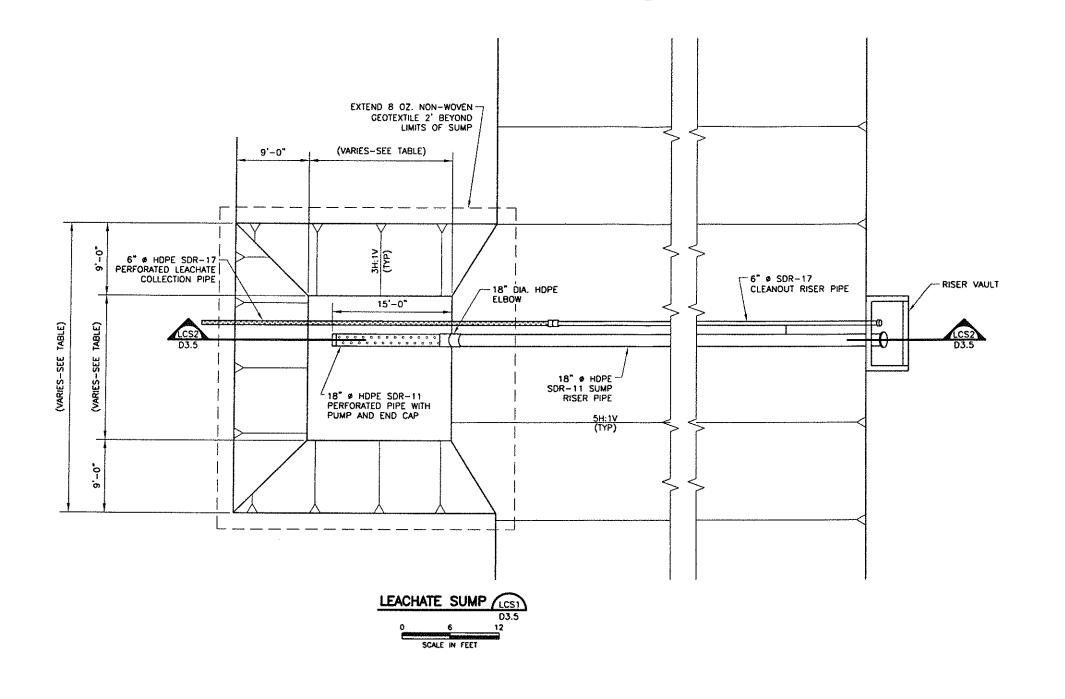
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LINER SUBGRADE

COMPACTED SOIL LINER

SIDEWALL LINER

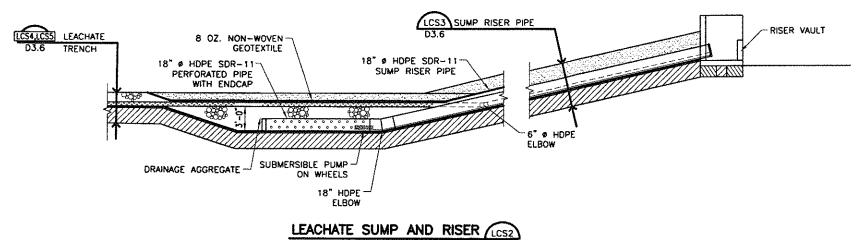
REFER TO ATTACHMENT D7 FOR LINER INSTALLATION AND MATERIAL REQUIREMENTS.



LEAC	CHATE SUMP ((SEE NOTE 3)	SIZE		
CELLS	LANDFILL FLOOR (FT)	SUMP BASE (FT)		
11-12, 14-18	38	20		
13	58	40		

NOTES:

- DRAINAGE AGGREGATE NOT SHOWN FOR CLARITY.
- REFER TO ATTACHMENTS D6 AND D7 FOR INSTALLATION AND MATERIAL REQUIREMENTS.
- REFER TO ATTACHMENT D6, APPENDIX D6—A FOR LEACHATE SUMP DESIGN CALCULATIONS.





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LEACHATE COLLECTION SYSTEM DETAILS

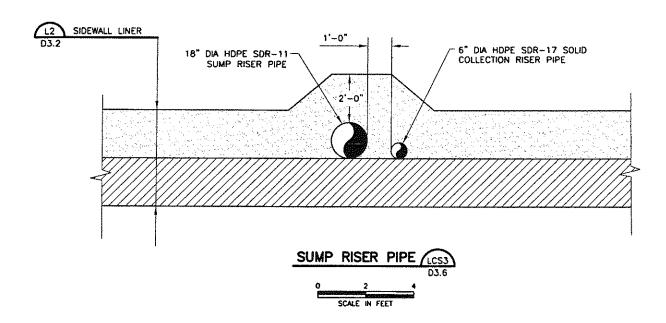
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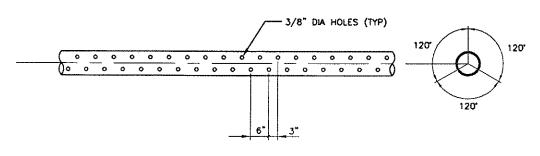


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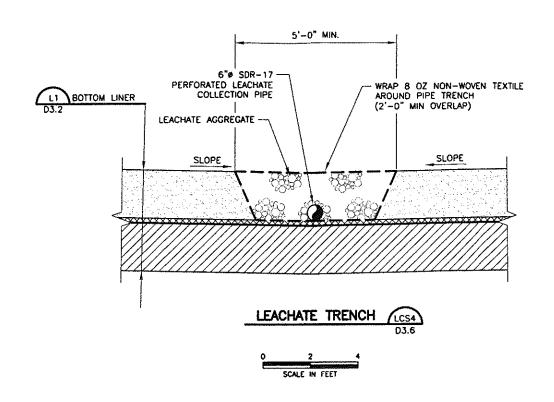
PERFORATED PIPE (LCS5)
NTS D3.6

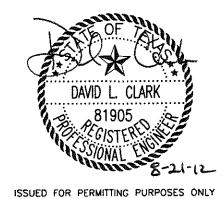
NOTE:

PERFORATION SCHEDULE APPLIES TO BOTH 6" LEACHATE COLLECTION PIPE AND 18" SUMP PIPE.

NOTES

 REFER TO ATTACHMENTS D6 AND D7 FOR INSTALLATION AND MATERIAL REQUIREMENTS.





SYSTEM DETAILS

LEACHATE COLLECTION

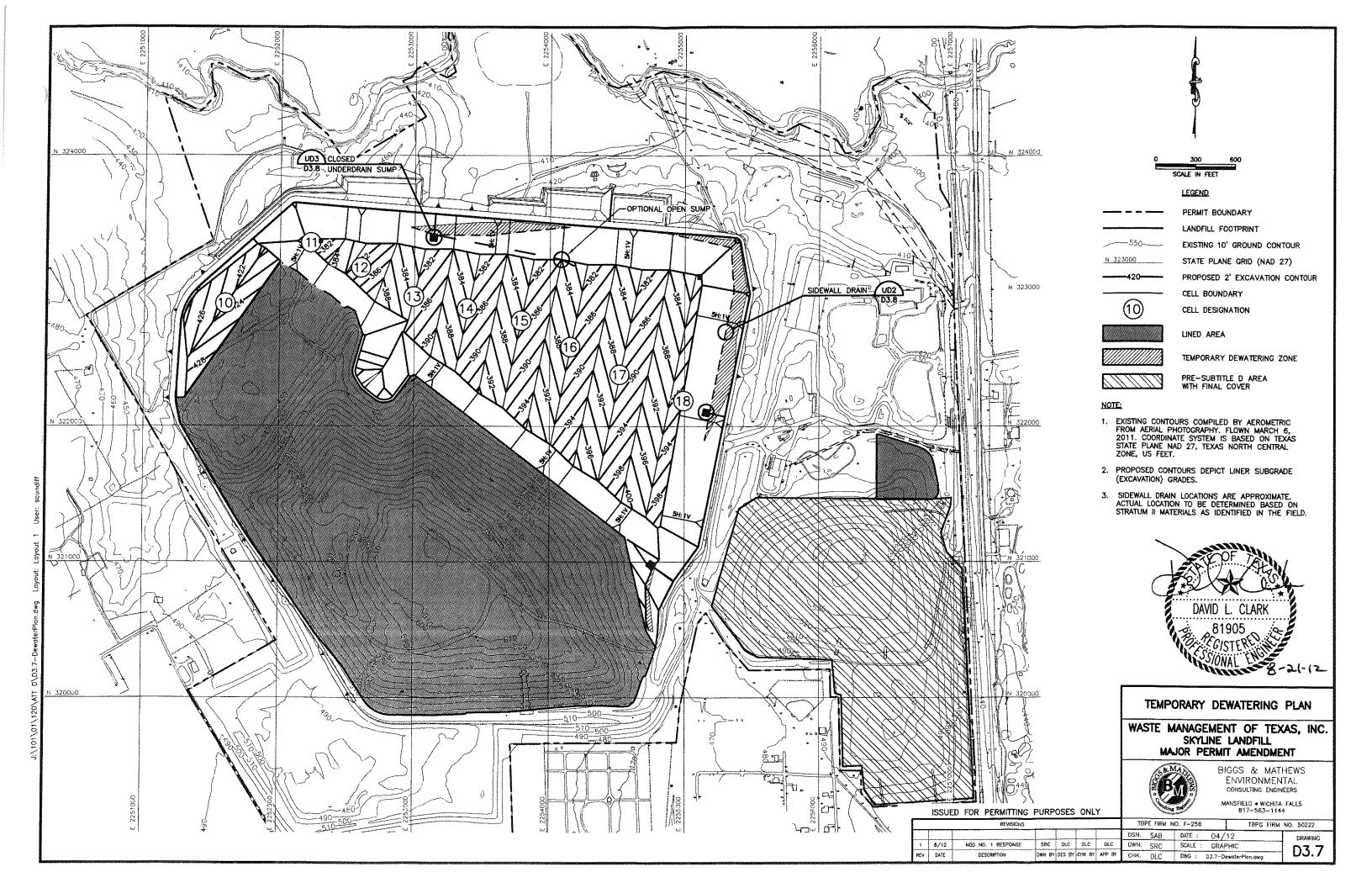
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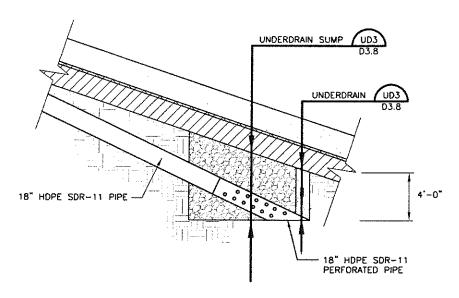


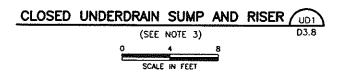
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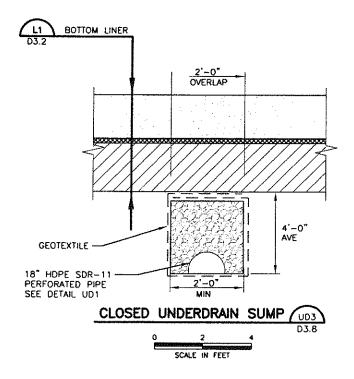
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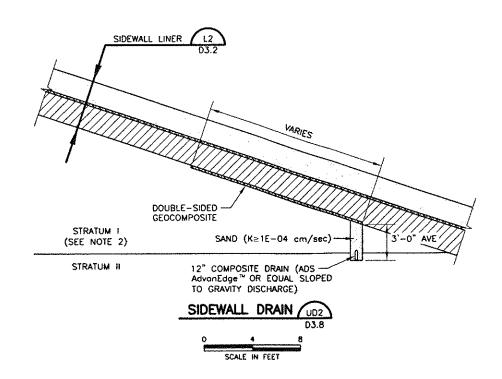
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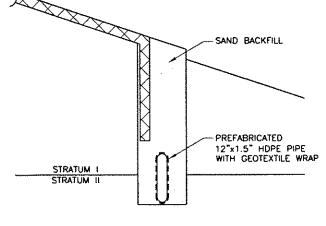


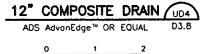


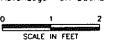


NOTES:

- 1. REFER TO ATTACHMENT D7 FOR INSTALLATION AND MATERIAL REQUIREMENTS.
- 2. SIDEWALL DRAIN LOCATION TO BE DETERMINED IN THE FIELD USING LINER CONSTRUCTION ACTIVITIES BASED ON IDENTIFICATION OF STRATUM I AND II MATERIALS THROUGH OBSERVATION OF MATERIAL TYPE, STRUCTURE, COLOR, MOISTURE CONTENT, AND OTHER CHANGES IN MATERIAL CHARACTERISTICS..
- 3. AN UNDERDRAIN SUMP WILL ONLY BE REQUIRED WHEN SIDEWALL DRAIN CANNOT BE GRAVITY DRAINED TO AN ADJACENT OPEN
- ADS AdvonEdge[™] IS A PREFABRICATED HDPE OVAL PIPE WITH GEOTEXTILE FABRIC THAT SUBSTITUTES FOR A PERFORATED PIPE/AGGREGATE/GEOTEXTILE WRAP.









UNDERDRAIN DETAILS

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT

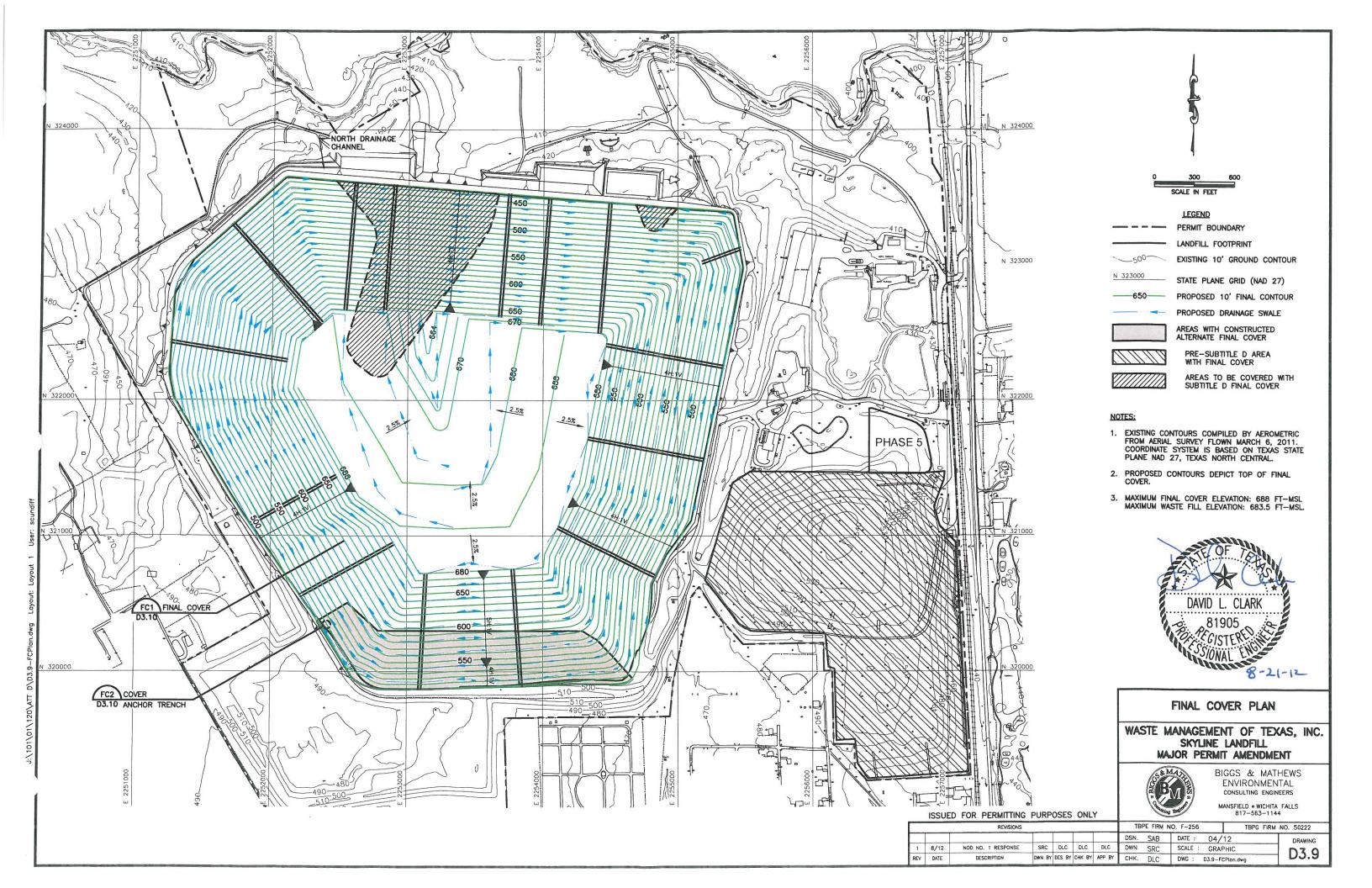


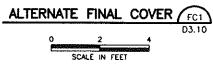
BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS

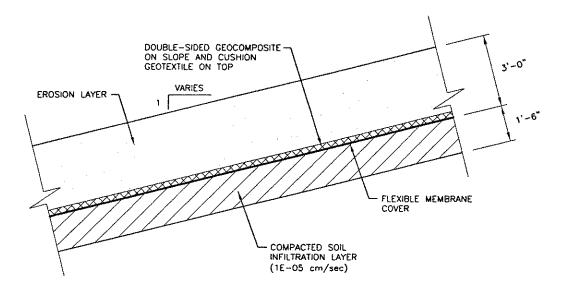
MANSFIELD . WICHITA FALLS

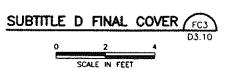
ISSUED FOR PERMITTING PURPOSES

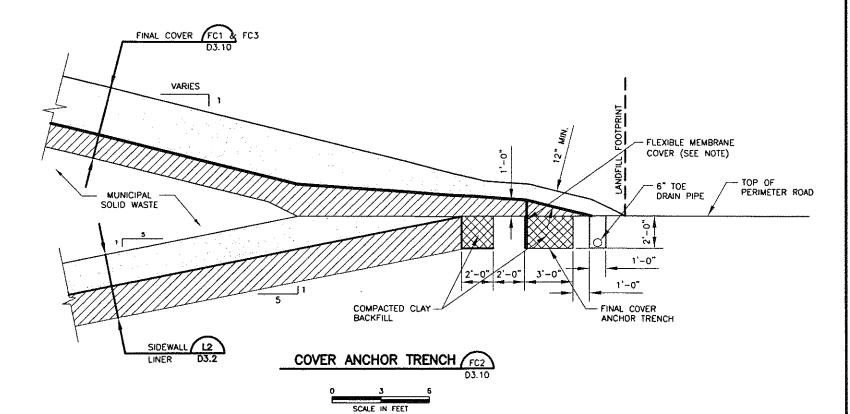
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NOTE: FOR SUBTITLE D FINAL COVER, FLEXIBLE MEMBRANE COVER TO BE TERMINATED IN BOTTOM OF FINAL COVER ANCHOR TRENCH.



ISSUED FOR PERMITTING PURPOSES ONLY

FINAL COVER DETAILS

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT



BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS

MANSFIELD + WICHITA FALLS 817-563-1144

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