



Project No. 1339-351-11-02-12
October 18, 2016

Mr. Dwight C. Russell, P.E.
MC-124
Waste Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: Supplemental Submittal
Camelot Landfill Permit Amendment Application – Denton County
Municipal Solid Waste (MSW) Permit No. 1312B
CN600131676/RN101479038

Dear Mr. Russell:

This supplemental submittal has been prepared on behalf of the City of Farmers Branch to supplement the application that was declared Technically Complete by the Texas Commission on Environmental Quality (TCEQ) in March 2015. An agreement was reached between the City of Farmers Branch and the City of Lewisville on January 6, 2016, and amended and approved on October 17, 2016, regarding the maximum elevations of the completed landfill, additional groundwater monitoring wells, and other matters. This supplement is submitted pursuant to Section 361.1231 of the Texas Health and Safety Code that requires Lewisville to approve the application prior to TCEQ's approval of it. In accordance with that agreement, this submittal includes the following revisions: (1) modifying the final contour plan, (2) adding an additional groundwater monitor well system, (3) revising landfill gas probe, fence locations, and permit boundary along the northern portion of the site, and (4) providing for an additional vegetation establishment requirement for certain intermediate and final cover slopes. Additional detail regarding these revisions is included in Section 1.0 of Parts I/II.

Furthermore, the attached replacement pages also include updates to the application to reflect the completion of the following projects at the site since the application was declared technically complete in March 2015: (1) slurry wall and associated groundwater monitoring system changes and (2) the installation of 10 dedicated pre-Subtitle D area leachate removal wells. Both of these projects were authorized by the TCEQ under TCEQ Permit No. 1312A in September 2014.

During the course of your review, if you need additional information or have any questions, please call.

Sincerely,
Weaver Consultants Group, LLC



Jeffrey P. Young, P.E.
Senior Engineer

Attachments: Camelot Landfill Permit Amendment Replacement Pages (1 original and 3 copies)

cc: Shane Davis, City of Farmers Branch
Brent Ryan, McElroy, Sullivan & Miller, LLP

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

VOLUME 1 OF 6

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised December 2013

Revised June 2014

Revised October 2014

Revised October 2016

Prepared by



Weaver Boos Consultants, LLC—Southwest
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
817-735-9770

WBC Project No. 1339-351-11-02-6A

This document is intended for permitting purposes only.

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

APPLICATION TABLE OF CONTENTS

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised June 2014

Revised October 2016



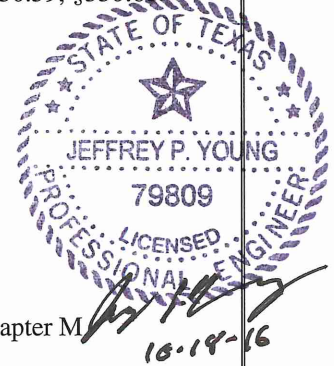
Prepared by

Weaver Boos Consultants, LLC–Southwest
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6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
817-735-9770

Project No. 1339-351-11-02-06

**CAMELOT LANDFILL MAJOR PERMIT AMENDMENT APPLICATION
TCEQ PERMIT NO. MSW-1312B
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**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**TCEQ PART I APPLICATION FORM AND
CORE DATA FORM**

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised December 2013

Revised January 2014

Revised March 2014

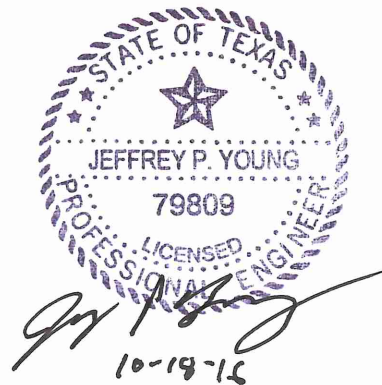
Revised April 2014

Revised June 2014

Revised October 2014

Revised January 2015

Revised October 2016



Prepared by

Weaver Boos Consultants, LLC-Southwest

TBPE Registration No. F-3727

6420 Southwest Boulevard, Suite 206

Fort Worth, Texas 76109

817-735-9770

Project No. 0120-84-11-89-01

Facility Name: Camelot Landfill
Permittee/Registrant Name: City of Farmers Branch
MSW Authorization #: 1312B
Initial Submittal Date: March 22, 2012
Revision Date: October 18, 2016



Texas Commission on Environmental Quality

Part I Form

New Permit/Registration and Amendment Applications for an MSW Facility

1. Reason for Submittal

Initial Submittal Notice of Deficiency (NOD) Response Supplement

2. Authorization Type

Permit Registration

3. Application Type

New Major Amendment
 Major Amendment (Limited Scope)

4. Application Fees

Pay by Check Online Payment

If paid online, e-Pay Confirmation Number: **582EA000118867**

5. Application URL

Is the application submitted for Type I Arid Exempt (AE) and/or Type IV AE facility?

Yes No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.

<http://www.ftwweaverboos.com>

6. Application Publishing

Party Responsible for Publishing Notice:

Applicant Agent in Service Consultant

7. Alternative Language Notice

Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)

Yes No

8. Public Place Location of Application

Name of the Public Place: **Lewisville Public Library**
 Physical Address: **1197 West Main Street**
 City: **Lewisville** County: **Denton** State: **Texas** Zip Code: **75067**
 (Area code) Telephone Number: **972-219-3570**

9. Consolidated Permit Processing

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

Yes No Not Applicable

If "Yes", state the other TCEQ program authorizations requested:

10. Confidential Documents

Does the application contain confidential documents?

Yes No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

11. Permits and/or Construction Approvals (refer to Table 2-3 in Parts I/II)

Select all that apply	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dredge or Fill Permits under the CWA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Licenses under the Texas Radiation Control Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Other Environmental Permits			
Air Quality – Title V Operating Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Quality – Standard Operating Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. General Facility Information

Facility Name: **Camelot Landfill (see note at the bottom of this section)**

MSW Authorization No. (if available): **1312B**

Regulated Entity Reference No. (if issued)*: **RN101479038**

Physical or Street Address (if available): **580 Huffines Blvd.**

City: **Lewisville** County: **Denton** State: **Texas** Zip Code: **75056**

(Area Code) Telephone Number: **972-492-3888**

Latitude (Degrees, Minutes Seconds): **N33° 02' 0.79" (Benchmark Location)**

Longitude (Degrees, Minutes Seconds): **W96° 56' 35.6" (Benchmark Location)**

Benchmark Elevation (above mean sea level): **455.46 ft. (Benchmark Location)**

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: **The site entrance is located at 580 Huffines Boulevard, approximately 1,800 feet south of the State Highway 121 Business and Huffines Boulevard intersection.**

Detail access routes from the nearest United States or state highway to the facility: **From State Highway 121 Business vehicles travel approximately 1,800 feet south on Huffines Boulevard to the site.**

Note: With this major amendment application, the name of the facility will change from Camelot Sanitary Landfill to Camelot Landfill, as discussed in Parts I/II – Section 2.1.

*If this number has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

13. Facility Type(s)

- | | | |
|--|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> Type I | <input type="checkbox"/> Type IV | <input type="checkbox"/> Type V |
| <input type="checkbox"/> Type I AE | <input type="checkbox"/> Type IV AE | <input type="checkbox"/> Type VI |

14. Activities Conducted at the Facility

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Storage | <input checked="" type="checkbox"/> Processing | <input checked="" type="checkbox"/> Disposal |
|---|--|--|

15. Facility Waste Management Unit(s)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Landfill Unit(s) | <input type="checkbox"/> Incinerator(s) |
| <input type="checkbox"/> Class 1 Landfill Unit(s) | <input type="checkbox"/> Autoclave(s) |
| <input type="checkbox"/> Process Tank(s) | <input type="checkbox"/> Refrigeration Unit(s) |
| <input checked="" type="checkbox"/> Storage Tank(s) | <input type="checkbox"/> Mobile Processing Unit(s) |
| <input type="checkbox"/> Tipping Floor | <input type="checkbox"/> Type VI Demonstration Unit |
| <input type="checkbox"/> Storage Area | <input type="checkbox"/> Compost Pile(s) and/or Vessel(s) |
| <input type="checkbox"/> Container(s) | <input checked="" type="checkbox"/> Other (Specify) Citizens Convenience Center |
| <input type="checkbox"/> Roll-off Boxes | <input checked="" type="checkbox"/> Other (Specify) Wood Waste Processing |
| <input type="checkbox"/> Surface Impoundment | <input checked="" type="checkbox"/> Other (Specify) Type IX Energy/Material Recovery |

16. Description of the Revisions to the Facility

Skip this box, if "New" is selected under "Application Type".

Provide a brief description of all revisions to the permit conditions and supporting documents referenced by the permit. Also, provide an explanation of why the amendment is requested.
The purpose of this Major Permit Amendment is to secure authorization for a vertical and horizontal expansion of the Camelot Landfill. The existing active 198.3-acre waste disposal area will be expanded by 38.5 acres. The existing permit boundary, surveyed in November 2010 as 350.77 acres, will be expanded by 118.85 acres to 469.62 459.76 acres. The maximum permitted final cover elevation will be increased from 523 ft-msl to 725 675 ft-msl and the resulting capacity increase is 37,700,000 30,300,000 cy. This landfill expansion will provide for the long-term disposal needs of the City of Farmers Branch, Denton County, and surrounding communities.

17. Facility Contact Information

Site Operator (Permittee/Registrant) Name: City of Farmers Branch
Customer Reference No. (if issued)*: CN **600131676**
Mailing Address: **13000 William Dodson Parkway**
City: **Farmers Branch** County: **Dallas** State: **Texas** Zip Code: **75234**
(Area Code) Telephone Number: **(972) 919-2614**
Email Address: **shane.davis@farmersbranchtx.gov**
TX Secretary of State (SOS) Filing Number:

*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

Operator Name¹: Same as "Site Operator (Permittee/Registrant)"

Customer Reference No. (if issued)*:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

TX SOS Filing Number:

¹If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

Consultant Name (if applicable): Weaver Boos Consultants

Texas Board of Professional Engineers Firm Registration Number: **F-3727**

Mailing Address: **6420 Southwest Boulevard, Suite 206**

City: **Fort Worth** County: **Tarrant** State: **Texas** Zip Code: **76109**

(Area Code) Telephone Number: **817-735-9770**

E-Mail Address: **jyoung@wcgrp.com**

Agent in Service Name (required only for out-of-state):

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

18. Facility Supervisor's License

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, will obtain prior to commencing facility operations.

Class A Class B

19. Ownership Status of the Facility

- | | | |
|--|---|---|
| <input type="checkbox"/> Corporation | <input checked="" type="checkbox"/> Limited Partnership | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> Individual | <input checked="" type="checkbox"/> City Government | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> County Government | <input type="checkbox"/> Military |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government | <input type="checkbox"/> Other (Specify): |

Note: Called 18.71 acres of the proposed permit boundary are owned by Camelot Landfill TX, LP. The remaining 450.91 acres of the permit boundary are owned by the City of Farmers Branch. Property owner affidavits for both property owners are included in Section 14 of Parts I/II.

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

Yes No

If "No", provide the information requested below for any additional ownership.

Owner Name: Camelot Landfill TX, LP

Street or P.O. Box: **911 E. Highway 121 Business, Suite 201**

City: **Lewisville** County: **Denton** State: **Texas** Zip Code: **75057**

(Area Code) Telephone Number: **972-434-2010**

Email Address (optional):

20. Other Governmental Entities Information

Texas Department of Transportation District: Dallas District

District Engineer's Name: **Kelly Selman, P.E.**

Street Address or P.O. Box: **4777 E. Highway 80**

City: **Mesquite** County: **Dallas** State: **Texas** Zip Code: **75150-6643**

(Area Code) Telephone Number: **214-320-6100**

E-Mail Address (optional):

The Local Governmental Authority Responsible for Road Maintenance (if applicable): Texas Department of Transportation

Contact Person's Name: **Nancy Cline, P.E., Denton County Area Engineer**

Street Address or P.O. Box: **2624 West Prairie**

City: **Denton** County: **Denton** State: **Texas** Zip Code: **76201**

(Area Code) Telephone Number: **940-387-1414**

E-Mail Address (optional):

AND

City of Lewisville Department of Public Services

~~Carole Bassinger~~, **Keith Marvin, Director**

1100-D North Kealy

Lewisville, Denton, Texas 75057

Telephone: 972-219-3510

City Mayor Information

City Mayor's Name: ~~Dean Ueckert~~ **Rudy Durham**

Office Address: **151 W. Church Street**

City: **Lewisville** County: **Denton** State: **Texas** Zip Code: **75057**

(Area Code) Telephone Number: **(972) 219-3400**

E-Mail Address (optional):

City Health Authority: Refer to Additional Information Page for City Health Authority Related Information

Contact Person's Name:

Street Address or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

County Judge Information

County Judge's Name: **Mary Horn**

Street Address or P.O. Box: **110 West Hickory Street**

City: **Denton** County: **Denton** State: **Texas** Zip Code: **76201-4168**

(Area Code) Telephone Number: **940-349-2820**

E-Mail Address (optional):

County Health Authority: Denton County Health Department

Contact Person's Name: **Matt Richardson, DrPH, MPH**

Street Address or P.O. Box: **535 South Loop 288**

City: **Denton** County: **Denton** State: **Texas** Zip Code: **76205**

(Area Code) Telephone Number: **972-434-4700 349-2900**

E-Mail Address (optional):

State Representative Information

District Number: **65**

State Representative's Name: **Ron Simmons**

District Office Address: **1029 W. Rosemeade Pkwy., Suite 108**

City: **Carrollton** County: **Denton** State: **Texas** Zip Code: **75007**

(Area Code) Telephone Number: **972-492-2080**

E-Mail Address (optional):

State Senator Information

District Number: **12**

State Senator's Name: **Jane Nelson**

District Office Address: **1235 S. Main Street, Suite 280**

City: **Grapevine** County: **Tarrant** State: **Texas** Zip Code: **76051**

(Area Code) Telephone Number: **817-424-3446**

E-Mail Address (optional):

Council of Government (COG) Name: North Central Texas Council of Govts.

COG Representative's Name: **Edith Marvin**

COG Representative's Title: **Director of Environment and Development**

Street Address or P.O. Box: **P.O. Box 5888**

City: **Arlington** County: **Tarrant** State: **Texas** Zip Code: **76005-5888**

(Area Code) Telephone Number: **817-695-9211**

E-Mail Address (optional):

River Basin Authority Name: Trinity River Authority, Northern Region

Contact Person's Name: **Fiona Allen**

Watershed Sub-Basin Name: **Elm Fork Trinity River Below Lewisville Lake**

Street Address or P.O. Box: **P.O. Box 240**

City: **Arlington** County: **Tarrant** State: **Texas** Zip Code: **76004**

(Area Code) Telephone Number: **817-493-5145**

E-Mail Address (optional):

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

Yes No

U.S. Army Corps of Engineers

The facility is located in the following District of the U.S. Army Corps of Engineers:

Albuquerque, NM Galveston, TX
 Ft. Worth, TX Tulsa, OK

Local Government Jurisdiction

Within City Limits of: **Lewisville**

Within Extraterritorial Jurisdiction of:

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes No

(If "Yes", provide a copy of the ordinance or order as an attachment):

Facility Name: **Camelot Landfill**
MSW Authorization #: **1312B**

Initial Submittal Date: March 22, 2012
Revision Date: October 18, 2016

Signature Page

I, Charles S. Cox _____, _____ City Manager
(Site Operator (Permittee's Authorized Signatory)) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [Handwritten Signature]

Date: 10/18/16

TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, _____, hereby designate _____
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Operator or Principal Executive Officer

Signature

SUBSCRIBED AND SWORN to before me by the said Charles S. Cox

On this 18th day of October, 2016

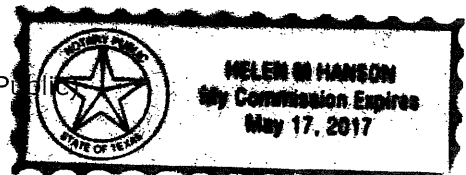
My commission expires on the 17th day of May, 2017

Helen M. Hanson

Notary Public in and for

Tarrant County, Texas

(Note: Application Must Bear Signature & Seal of Notary Public)



Part I Attachments

(See Instructions for P.E. seal requirements.)

Required Attachments

Supplementary Technical Report

Property Legal Description

Property Metes and Bounds Description

Facility Legal Description

 Facility Metes and Bounds Description

 Metes and Bounds Drawings

 On-Site Easements Drawing

Land Ownership Map

Land Ownership List

 Electronic List or Mailing Labels

Texas Department of Transportation (TxDOT) County Map

General Location Map

General Topographic Map

Verification of Legal Status

Property Owner Affidavit

Evidence of Competency

Additional Attachments as Applicable- Select all those apply and add as necessary

TCEQ Core Data Form(s)

Signatory Authority Delegation

Fee Payment Receipt **(E-Payment Ref. No. provided on page 1 of Part I Form)**

Confidential Documents

Waste Storage, Processing and Disposal Ordinances

Final Plat Record of Property

Certificate of Fact (Certificate of Incorporation)

Assumed Name Certificate

Attachment No.
Parts I/II Section 2
Parts I/II Section 13
Parts I/II Section 13
Parts I/II Section 13
Parts I/II Section 13
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Parts I/II Section 13
Parts I/II Section 13
Parts I/II Section 5
Provided in CD
Provided in CD
Parts I/II Section 4
Parts I/II Section 4
Parts I/II Section 4
Parts I/II Section 15
Parts I/II Section 14
Parts I/II Section 16



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided)			
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)			
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input checked="" type="checkbox"/> Other Major Permit Amendment	
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Major Permit Amendment	
3. Customer Reference Number (if issued)		4. Regulated Entity Reference Number (if issued)	
CN 601253628		RN 101479038	
Follow this link to search for CN or RN numbers in Central Registry**			

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)		9/1/2012	
6. Customer Role (Proposed or Actual) – as it relates to the <u>Regulated Entity</u> listed on this form. Please check only <u>one</u> of the following:			
<input type="checkbox"/> Owner		<input checked="" type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input type="checkbox"/> Owner & Operator		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other: _____			
7. General Customer Information			
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State)		<input checked="" type="checkbox"/> No Change**	
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.			
8. Type of Customer:			
<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
<input type="checkbox"/> City Government		<input type="checkbox"/> Federal Government	
<input type="checkbox"/> County Government		<input type="checkbox"/> State Government	
<input type="checkbox"/> Other Government		<input type="checkbox"/> General Partnership	
<input type="checkbox"/> Limited Partnership		<input type="checkbox"/> Other: _____	
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John)		If new Customer, enter previous Customer below	
		End Date:	
10. Mailing Address:			
City		State	
		ZIP	
		ZIP + 4	
11. Country Mailing Information (if outside USA)		12. E-Mail Address (if applicable)	
13. Telephone Number		14. Extension or Code	
() -		() -	
15. Fax Number (if applicable)			
() -			
16. Federal Tax ID (9 digits)		17. TX State Franchise Tax ID (11 digits)	
18. DUNS Number (if applicable)		19. TX SOS Filing Number (if applicable)	
20. Number of Employees		21. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION III: Regulated Entity Information

22. General Regulated Entity Information (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)			
<input type="checkbox"/> New Regulated Entity		<input checked="" type="checkbox"/> Update to Regulated Entity Name	
<input type="checkbox"/> Update to Regulated Entity Information		<input checked="" type="checkbox"/> No Change** (See below)	
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.			
23. Regulated Entity Name (name of the site where the regulated action is taking place)			
Camelot Landfill			

24. Street Address of the Regulated Entity: (No P.O. Boxes)							
	City		State		ZIP		ZIP + 4
25. Mailing Address:	a						
	City		State		ZIP		ZIP + 4
26. E-Mail Address:							
27. Telephone Number	28. Extension or Code			29. Fax Number (if applicable)			
() -				() -			
30. Primary SIC Code (4 digits)	31. Secondary SIC Code (4 digits)	32. Primary NAICS Code (5 or 6 digits)		33. Secondary NAICS Code (5 or 6 digits)			
34. What is the Primary Business of this entity? (Please do not repeat the SIC or NAICS description.)							

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:							
36. Nearest City	County			State		Nearest ZIP Code	
37. Latitude (N) In Decimal:		38. Longitude (W) In Decimal:					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Industrial Hazardous Waste	<input type="checkbox"/> Municipal Solid Waste
<input type="checkbox"/> New Source Review – Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS	<input type="checkbox"/> Sludge
<input type="checkbox"/> Stormwater	<input type="checkbox"/> Title V – Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Utilities
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:


SECTION IV: Preparer Information

40. Name:	Jeffrey P. Young, P.E.	41. Title:	Senior Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(817) 735-9770	111	(817) 735-9775	jyoung@wcgrp.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	Camelot Landfill TX, LP	Job Title:	Area President
Name (In Print):	Bryan Boyer	Phone:	(713) 726-7506
Signature:		Date:	10-24-16



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided)			
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)			
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input checked="" type="checkbox"/> Other Major Permit Amendment	
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Major Permit Amendment	
3. Customer Reference Number (if issued)		4. Regulated Entity Reference Number (if issued)	
CN 600131676		RN 101479038	

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)		3/11/2010	
6. Customer Role (Proposed or Actual) – as it relates to the <u>Regulated Entity</u> listed on this form. Please check only <u>one</u> of the following:			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input checked="" type="checkbox"/> Owner & Operator		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other: _____			
7. General Customer Information			
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State)		<input type="checkbox"/> Change in Regulated Entity Ownership	
		<input checked="" type="checkbox"/> No Change**	
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.			
8. Type of Customer:			
<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
<input type="checkbox"/> City Government		<input type="checkbox"/> County Government	
<input type="checkbox"/> Other Government		<input type="checkbox"/> General Partnership	
		<input type="checkbox"/> Limited Partnership	
		<input type="checkbox"/> Sole Proprietorship- D.B.A	
		<input type="checkbox"/> State Government	
		<input type="checkbox"/> Other: _____	
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John)		<i>If new Customer, enter previous Customer below</i>	
		<i>End Date:</i>	
10. Mailing Address:			
City		State	
		ZIP	
		ZIP + 4	
11. Country Mailing Information (if outside USA)		12. E-Mail Address (if applicable)	
13. Telephone Number		14. Extension or Code	
() -			
		15. Fax Number (if applicable)	
		() -	
16. Federal Tax ID (9 digits)		17. TX State Franchise Tax ID (11 digits)	
		18. DUNS Number (if applicable)	
		19. TX SOS Filing Number (if applicable)	
20. Number of Employees		21. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION III: Regulated Entity Information

22. General Regulated Entity Information (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)			
<input type="checkbox"/> New Regulated Entity		<input checked="" type="checkbox"/> Update to Regulated Entity Name	
		<input type="checkbox"/> Update to Regulated Entity Information	
		<input checked="" type="checkbox"/> No Change** (See below)	
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.			
23. Regulated Entity Name (name of the site where the regulated action is taking place)			
Camelot Landfill			

24. Street Address of the Regulated Entity: (No P.O. Boxes)							
	City		State		ZIP		ZIP + 4
25. Mailing Address:	a						
	City		State		ZIP		ZIP + 4
26. E-Mail Address:							
27. Telephone Number	28. Extension or Code			29. Fax Number (if applicable)			
() -				() -			
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Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	

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<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Industrial Hazardous Waste	<input type="checkbox"/> Municipal Solid Waste
<input type="checkbox"/> New Source Review – Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS	<input type="checkbox"/> Sludge
<input type="checkbox"/> Stormwater	<input type="checkbox"/> Title V – Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil	<input type="checkbox"/> Utilities
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

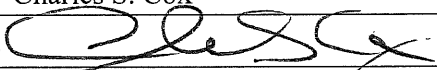
SECTION IV: Preparer Information

40. Name:	Jeffrey P. Young, P.E.	41. Title:	Senior Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(817) 735-9770	111	(817) 735-9775	jyoung@wcgrp.com

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46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	City of Farmers Branch	Job Title:	City Manager
Name (In Print):	Charles S. Cox	Phone:	(972) 919-2515
Signature:		Date:	10/18/16

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**PARTS I/II
GENERAL APPLICATION REQUIREMENTS**

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised December 2013

Revised June 2014

Revised October 2014

Revised October 2016



Prepared by

Weaver Boos Consultants, LLC–Southwest

TBPE Registration No. F-3727

6420 Southwest Boulevard, Suite 206

Fort Worth, Texas 76109

817-735-9770

WBC Project No. 1339-351-11-02-6A

This document is intended for permitting purposes only.

1 INTRODUCTION

The purpose of this Major Permit Amendment is to secure authorization for a vertical and horizontal expansion of the Camelot Landfill. The existing active 198.3-acre waste disposal area will be expanded by 38.5 acres. The existing permit boundary, surveyed in November 2010 as 350.77 acres, will be expanded by ~~118.85~~ 108.99 acres to ~~469.62~~ 459.76 acres. The maximum permitted final cover elevation will be increased from 523 ft-msl to ~~725~~ 675 ft-msl and the resulting capacity increase is ~~37,700,000~~ 30,300,000 cy. This landfill expansion will provide for the long-term disposal needs of the City of Farmers Branch, Denton County, and surrounding communities.

This section addresses §330.59, §330.61, and §305.45.

The General Application Requirements Section (Parts I/II) of this Permit Amendment Application for the Camelot Landfill has been prepared consistent with the State of Texas requirements set forth in Title 30 Texas Administrative Code (TAC) §330.59 and §330.61. Part II has been combined with Part I in accordance with §330.57(c)(2). Section 2, Supplementary Technical Report, presents an overview of the project and a detailed facility description as well as the types of waste that will be accepted at the facility. The remaining portions of Parts I/II present information on specific existing conditions on and around the site and regulatory matters of the entities involved in the application process.

This application was initially declared technically complete by the TCEQ on March 19, 2015. An agreement was reached between the City of Farmers Branch and the City of Lewisville on January 6, 2016, and amended and approved on October 17, 2016, regarding the maximum elevation of the completed landfill, additional groundwater monitoring wells, and other matters. In accordance with that agreement, this supplemental submittal includes the following revisions:

- Revise the final contours so that the maximum elevation of the completed landfill over the pre-Subtitle D area of the landfill will not exceed 623 feet above mean-sea level (msl) and the maximum elevation of the completed landfill over the Subtitle D area of the landfill will not exceed 675 feet msl.
- Add ten groundwater monitor wells along the east and southeast perimeter of the landfill and two monitor wells along the upgradient west perimeter. Each of these monitor wells will be completed in the Woodbine Formation. These ten monitor wells will comprise the “Woodbine Groundwater Monitoring Well System” and

- Revise landfill gas probe, fence locations, and permit boundary along the northern portion of the site where property has been conveyed to the City of Lewisville for the construction of Corporate Drive and Huffines Boulevard.
- Beautify the non-active slopes of the landfill through the establishment of native grasses and flowering plants as part of the vegetative cover. This vegetative cover will include a mixture of Bermuda, vetch, rye, wheat grass, wild flowers, flowering plants, and other applicable vegetative material. This additional vegetation establishment requirement will be applicable to both interim and final slopes.

Since the application was declared technically complete, the following improvements have been completed at the facility.

- The slurry wall located along the southern and eastern perimeter of the site has been installed per a permit modification that was approved by the TCEQ in September 2014.
- Three additional groundwater monitor wells have been installed. These monitor wells are labeled MW-9A, MW-4A, and MW-13R2 and were installed after the slurry wall was constructed. These wells were authorized by the TCEQ in September 2014.
- Dedicated pre-Subtitle D area leachate removal wells have been installed. Ten dedicated leachate removal wells were installed in the pre-Subtitle D area per a permit modification that was approved by the TCEQ in September 2014.

2 SUPPLEMENTARY TECHNICAL REPORT

2.1 Facility Location and Project Overview

The Camelot Landfill is an existing municipal solid waste facility (TCEQ Permit No. MSW-1312A) in Denton County which is owned by the City of Farmers Branch. The site entrance facilities are located at 580 Huffines Boulevard, approximately 1,800 feet south of State Highway 121 Business.

*This section addresses
§305.45(a)(7),
§305.45(a)(8), §330.57(i),
§330.59(b), §330.61(b),
§330.61(l), §330.61(o),
and §330.61(p).*

The site was originally permitted as a solid waste landfill under Texas Department of Health (TDH) Permit No. 1312 in December 1979. The permit was amended in March 1981, before the site opened, to expand the permit boundary to approximately 351 acres (TCEQ Permit No. MSW-1312A). The site was upgraded to Subtitle D standards in 1996. A minor amendment to revise the facility's base grades and final cover configuration was approved by the TCEQ in 2001. The minor amendment reduced the footprint of the site from 238 acres to the existing 198.3 acres.

The purpose of this Major Permit Amendment is to secure authorization for a vertical and horizontal expansion of the Camelot Landfill. Comparisons between (1) the existing permitted and proposed landfill completion plans and (2) the existing permitted and proposed excavation plans are shown on Figure I/II-2.1 and Figure I/II-2.2, respectively. As shown, the existing active 198.3-acre waste disposal area will be expanded by 38.5 acres. Additionally, Figure I/II-2.2 includes the cell designations and their areas for the permitted and proposed configurations. The proposed expansion area will be located within the proposed ~~469.62~~ 459.76-acre permit boundary. The maximum permitted final cover elevation will be increased from 523.0 ft-msl to ~~725.0~~ 675.0 ft-msl. The resulting capacity increase is ~~37,700,000~~ 30,300,000 cubic yards. This landfill expansion will provide for the long-term disposal needs of the City of Farmers Branch, Denton County and surrounding communities. A facility name change is included in the application. The facility name under TCEQ Permit No. MSW-1312A is "Camelot Sanitary Landfill." Upon approval of this application (TCEQ Permit No. MSW-1312B), the facility name will be "Camelot Landfill."

As shown on Figures I/II-2.1 and I/II-2.2, the permit boundary will be expanded to the north by adding ~~118.85~~ 108.99 acres to the existing 350.77-acre permit boundary. The area within the proposed permit boundary expansion area includes an inactive municipal solid waste permit area (TCEQ Permit No. MSW-946). The current permittee of TCEQ Permit No. MSW-946 is the City of Farmers Branch. This permit was issued by the TCEQ on

March 15, 1979 to the Town of Highland Park. The 102.58-acre property and the permit were transferred to the City of Farmers Branch in 2000 (refer to Appendix I/III for additional information). The permitted facility has never been developed; however, the record for this permit does indicate some waste filling occurred in the late 1960s and 1970s (refer to Section 3.1 for additional information). As noted in Section 17, the City of Farmers Branch requests that TCEQ Permit No. MSW-946 be revoked upon approval of this permit amendment application, as the majority of the 102.58-acre permit boundary of TCEQ Permit No. MSW-946 will be incorporated into the ~~469.62~~ 459.76-acre permit boundary of TCEQ Permit No. MSW-1312B. Waste within the historic waste fill area associated with TCEQ Permit No. MSW-946 (as shown on Figures I/II-2.1 and I/II-2.2) will be moved to the 236.8-acre waste disposal area prior to the development of the North detention pond (refer to Section 4.6 of Part III and Section 4.25 of Part IV – SOP).

The existing Camelot Landfill currently serves residences and businesses in Denton, Dallas, Collin, and Tarrant Counties. This service area is based on current economic conditions. As economic conditions and available landfill disposal capacity change, the landfill may accept waste from areas other than those noted above.

The quantity and types of waste accepted at the landfill and the site design and operations are discussed in the following subsections. Consistent with Title 30 TAC §330.61(b), the sources and characteristics of wastes are detailed in the following sections. In addition, waste screening and acceptance procedures are further discussed in Part IV – SOP.

2.1.1 Waste Acceptance Plan

The Camelot Landfill is currently operated as a Type I municipal solid waste disposal facility. The facility accepts waste for disposal from both public and private entities in Denton, Collin, Dallas, and Tarrant counties. The proposed expansion of the site will not alter the current disposal patterns. The design and operation of the facility considers the characteristics of the waste types discussed in this section.

The major classifications of solid waste to be accepted at the Camelot Landfill include household waste, yard waste, commercial waste, industrial waste (non-hazardous), construction-demolition waste, and some special wastes. Each classification of waste is defined by §330.3 as follows (note that not all of the special wastes listed in §330.3(148) will be accepted at this site – refer to Part IV for additional information):

- **Household Waste:** Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple residences, hotels, motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include brush.
- **Yard Waste:** Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than 6 inches in diameter, that result from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.

A Wood Waste Processing Area will be located in the area north of the landfill to process source separated wood waste material. This facility may operate periodically after the area is initially developed. The wood waste material will be ground to reduce the size of the material to create wood chips. The Wood Waste Processing Area will consist of a material receiving area, a material processing area that will include a tub grinder to reduce material size (or the grinder may be brought to site as needed), and a wood chip storage area. The processed wood chips may be distributed to local citizens, governmental agencies, and/or used onsite for vegetation enhancement and erosion control.

Waste will only be disposed of in the 236.8-acre solid waste disposal area listed in this permit amendment. No additional waste will be disposed of in the 5.1-acre inactive unit located in the northeast portion of the site. As discussed in Section 4.6 of Part III – Site Development Plan Narrative and Section 4.25 of Part IV – SOP, the existing waste located in the 5.1-acre inactive unit and the historic waste fill area associated with TCEQ Permit No. MSW-946 will be relocated to the 236.8-acre disposal area. The inactive unit will be regraded with soil fill to create an open space/green field area. No other waste disposal activities will occur within the ~~469.62~~ 459.76-acre Camelot Landfill permit boundary.

2.1.2 Disposal Volume and Rate of Waste

The following two subsections detail the volume of waste disposal capacity and the projected disposal rates.

Volume of Waste Disposal Capacity

The waste disposal capacity of the site is summarized in Table 2-1.

**Table 2-1
Waste Disposal Capacity Summary**

Item	Disposal Capacity ¹	
	Permit No. MSW-1312A	Permit No. MSW-1312B
Consumed Airspace ²	15,357,000 cy	15,357,000 cy
Remaining Airspace	7,543,000 cy	45,243,000 37,843,000 cy
Airspace Gained by Expansion	---	37,700,000 30,300,000 cy
Total Capacity	22,900,000 cy	60,600,000 53,200,000 cy

¹ Disposal capacity is defined as waste and daily cover. The consumed airspace represents the waste that has been placed at the site as of August 28, 2010.

² The consumed airspace quantity does not include (1) the waste in the 5.1-acre inactive unit that will be relocated to the 236.8-acre disposal area and (2) the historic waste in the Permit No. MSW-946 area. The waste volume from these two areas will consume a portion of the total capacity of the ~~60.6~~ 53.2 million cy disposal area.

Disposal Rate Projections

Two estimates have been developed to provide an assessment of the solid waste disposal rate for the Camelot Landfill. The first estimate is based on the City of Farmers Branch’s knowledge of market conditions, both currently and after the permit is issued. A second estimate was completed based on historical waste inflow data.

The disposal rate projections are discussed in detail in Appendix IIIN and summarized in Table 2-2.

**Table 2-2
Solid Waste Disposal Rate Summary**

Method Used to Determine Solid Waste Generation Rate	Average Daily Waste Inflow (tons/day)	Maximum Projected Waste Inflow (tons/day)	Population Equivalent (persons)	Site Life (years)
City of Farmers Branch Projection	3,753 3,358	5,299 5,072	1,176,283 1,052,480	29.3 25.8
Historical Data	1,650 1,546	2,336 2,072	517,151 484,554	66.7 56.1

Currently, the Camelot Landfill accepts approximately 305,478 tons per year, based on the 2010 TCEQ annual report. The waste inflow rate is assumed to increase consistent with the projected growth rate for the facility’s general service area, which for this analysis is assumed to be Denton, Collin, Dallas, and Tarrant counties. The estimated acceptance rate of disposal at the end of the site’s projected life is 1,515,604 1,450,712 tons per year.

Operating criteria for a range of waste acceptance rates are included in Part IV – SOP. The above projections are based on current market conditions and may vary as market conditions change. These waste acceptance rates are not a limiting parameter of this permit. The actual yearly waste acceptance rate is a rolling quantity based on the sum of the previous four quarters of waste acceptance (refer to Part IV – SOP for additional information).

The estimated maximum annual waste acceptance rate for the facility for five years (beginning in 2011 and using the base year as 2010) is shown in the following table.

Year	Waste Acceptance Rate (tons per year)
2010*	305,478
2011	429,000
2012	435,692
2013	442,489
2014	449,392
2015	456,403
2016	462,199

*Actual acceptance rate based on 2010 TCEQ Annual Report.

The projected waste acceptance rate for other years is summarized in Part III, Appendix IIIN.

2.1.3 Solid Waste Containment System

The design objective of the containment system [final cover, Subtitle D liner, pre-Subtitle D area overliner (i.e., the term overliner refers to the liner system that will be installed over the existing pre-Subtitle D area), and leachate management systems] is to isolate the solid waste and remove leachate (defined as water that has contacted solid waste) that

may collect on the liner system. The Subtitle D liner system proposed for the landfill is a composite liner (compacted clay/60-mil geomembrane liner/ and drainage geocomposite). The containment system for the Camelot Landfill is shown in Figure 2.1.

The proposed continued development of the site does include a vertical expansion over the pre-subtitle D portion of the landfill. A containment system design for this area is provided to meet the point of compliance (POC) requirements listed in Title 30 TAC §330.331(a)(1). The design includes a composite liner system, slurry wall, and a leachate removal system for the pre-Subtitle D area. The composite overliner system that will be constructed over the pre-Subtitle D waste disposal area will consist of a geosynthetic clay liner (GCL), a 40-mil LLDPE geomembrane liner, drainage geocomposite layer, and a soil protection cover layer.

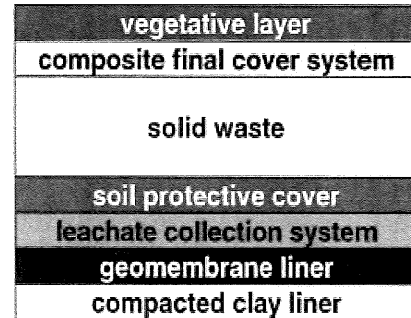


Figure 2.1. The liner and cover systems will be designed to meet or exceed all state and federal regulations.

Design information and the required QA/QC construction procedures for the individual components of the containment system are presented in Part III of this application.

2.1.4 Site Development Plan

The site development plan (SDP) is included in Part III of this application. This plan sets forth the overall design and operating characteristics of the landfill. Drawings showing the proposed landfill configuration during site development are presented in Parts I/II, Appendix I/IIA – Facility Layout Maps. A summary of the landfill configuration is provided below.

- The existing permit boundary, surveyed in November 2010 as 350.77 acres, will be expanded by ~~118.85~~ 108.99 acres to ~~469.62~~ 459.76 acres. The proposed permit boundary will add additional buffer area in the north portion of the landfill, as well as provide additional area for an operations support area and a possible wood waste processing area.
- The existing active 198.3-acre landfill unit will be expanded by 38.5 acres to create a 236.8-acre landfill unit. The existing 5.1-acre landfill unit located in the northeast portion of the site will remain inactive. During the development of the site, the existing waste within the 5.1-acre inactive unit and the historic waste fill area associated with TCEQ Permit No. MSW-946 will be relocated to the 236.8-acre disposal area. The inactive unit area will be regraded to create an open space/green field area.
- A summary of the capacity (volume of waste and cover soils) of the site is listed below:
 - Remaining capacity of existing site (TCEQ Permit No. MSW-1312A) = 7,543,000 cubic yards (as of August 28, 2010).

- Increase due to major permit amendment application = ~~37,700,000~~ 30,300,000 cubic yards.
 - Remaining capacity of the site with the major permit amendment application (TCEQ Permit No. MSW-1312B) = ~~45,243,000~~ 37,843,000 cubic yards (as of August 28, 2010).
- The maximum elevation of the final cover will be ~~725~~ 675 ft-msl, and the maximum waste elevation will be ~~721.5~~ 671.5 ft-msl.
 - The minimum elevation of the landfill excavation grades (or the elevation of the deepest excavation) will be 387 ft-msl (i.e., bottom of excavation in deepest sump). Throughout this application, the term “minimum elevation of excavation” and “elevation of the deepest excavation” are used interchangeably.
 - A Subtitle D composite liner (2-foot-thick compacted clay liner overlain by a 60-mil HDPE geomembrane liner) and leachate collection system will be constructed according to §330.331(a)(2) and §330.333. Details for the liner and LCS are provided in Part III, Appendix IIIA-A – Liner, Overliner, and Final Cover System Details.
 - The proposed continued development of the site does include a vertical expansion over the pre-Subtitle portion of the landfill. A containment system design for this area is provided to meet the point of compliance (POC) requirements listed in §330.331(a)(1). The design includes a composite liner system, slurry wall, and leachate removal system for the pre-Subtitle D area. The alternate composite overliner system consists of a GCL, a 40-mil LLDPE geomembrane, a drainage geocomposite leachate collection layer, and a 2-foot-thick protective layer. Details for the overliner system are provided in Part III, Appendix IIIA – Landfill Unit Design Information. The point of compliance demonstration is provided in Part III, Appendix IIIB.
 - Above grade waste disposal will conform to the lines and grades set forth in Parts I/II, Appendix I/IIA, Drawing I/IIA.8 – Landfill Completion Plan. Side fill slopes will not exceed 25 percent from the toe of the side embankment to the top of the side embankment. The slope of the landfill top deck will be constructed at a 4 percent maximum slope.
 - A final cover system will be constructed over the filled waste material, as shown in Part III, Appendix IIIA-A – Liner, Overliner, and Final Cover System Details. The final cover system is designed to minimize storm water infiltration.
 - The existing Citizens Convenience Center is located in the northern portion of the site. Generalized construction details of the convenience center are included in Parts I/II, Appendix I/IIA. Operational requirements are included in Part IV-SOP. The convenience center uses watertight containers. Traffic to the facility is controlled by scale operators to ensure a safe and efficient operation. Prior to the development of Cell 10, the Citizens Convenience Center will be relocated to the operation support area on the north end of the property or near the scale house.

- The Wood Waste Processing Area will be located north of the landfill. Generalized construction details and a Wood Waste Storage and Processing Area Operating Plan are included in Part IV, Appendix IVD.

2.1.5 Site Monitoring Systems

To verify the integrity of the environmental protection systems, the following existing and proposed landfill monitoring systems will be installed and/or maintained.

- **Groundwater Monitoring System** – The purpose of the groundwater monitoring system is to verify the integrity of the containment systems and to confirm that area groundwater is not adversely impacted by the landfill. This is accomplished by obtaining groundwater samples from the monitoring wells on the perimeter of the landfill, which are screened in the uppermost aquifer. Appendix IIIH includes the details of the existing and proposed groundwater monitoring systems. The TCEQ-approved groundwater monitoring system consists of 21 existing detection groundwater monitoring wells and an observation well system discussed in Appendix IIIH (System 2.1.4).

The groundwater monitoring system was revised in 2010 to comply with Title 30 TAC §330.403(a)(2), which required the installation of additional groundwater monitoring wells. In addition, per the approved permit modification to install the slurry wall submitted to TCEQ under MSW Permit No. 1312A, three additional monitor wells were installed in 2015. Since the waste footprint expansion area is located within the existing monitoring well network, this permit amendment proposes only minor changes to the existing detection groundwater monitoring system. In addition, a separate observation well system is ~~proposed~~ described in Appendix IIIH. The observation well system includes ~~both~~ existing and proposed wells located on the southern portion of the site between the limits of waste and the point of compliance. This additional observation well system ~~will~~ monitors groundwater quality on both sides of the slurry wall to verify the effectiveness of the slurry wall (which creates an additional hydraulic barrier between the limits of waste and the POC) and to provide an additional monitoring system that is designed to detect constituents of concern before they would reach the point of compliance. This early detection system, which is generally located 120 feet to 400 feet upgradient of the point of compliance, will allow for the implementation of corrective action measures before an impact is detected at the point of compliance. Ten new monitor wells will be installed into the Woodbine Formation aquifer within 12 months after a final, unappealable permit is issued. The locations of the 10 Woodbine monitor wells are shown on Drawing I/IIA.1 (Appendix I/IIA) and discussed in more detail in Section 2.1.5 of Appendix IIIH (Part III). The proposed Woodbine monitor wells OW-1 through OW-8 are down groundwater gradient wells and Woodbine monitor wells OW-9 and OW-10 are up gradient wells.

The detection monitoring well locations are shown in Part III, Appendix IIIH, Figure IIIH-A-1. Two additional groundwater monitoring wells (MW-30 and MW-31), located in the southwest portion of the site will replace detection monitor well MW-13R. MW-32 will replace MW-9A in the southeast portion of the site. Following the installation and background data acceptance of the three proposed detection monitoring wells, the groundwater detection monitoring system will consist of 22 wells.

The observation well system is detailed in Section 2.1.4 of Appendix IIIH.

- **Landfill Gas Monitoring System** – The purpose of the landfill gas monitoring system is to monitor and verify that landfill gas does not migrate off-site. The TCEQ-approved landfill gas monitoring system consists of 20 existing permanent gas probes around the existing permit boundary. As a result of landfill expansion, there will be a net increase of 2 probes resulting in a total of 22 gas probes (6 of the existing permanent probes will be abandoned, 8 new probes will be installed, and 14 existing probes will remain in place). As shown on Figure I/II-3.5, the site currently has an active landfill gas collection and control system (GCCS). The landfill gas monitoring system is discussed in detail in Part III, Appendix IIII.

- **Surface Water Monitoring Requirements** – The Camelot Landfill is subject to TCEQ stormwater permit requirements. A copy of the TPDES permit is included in Appendix I/IIG. Surface water monitoring is conducted consistent with TPDES requirements.

2.1.6 Site Operations

The Camelot Landfill is now and will continue to be operated by trained and TCEQ-licensed personnel. The Site Operating Plan (SOP) for the Camelot Landfill is presented in Part IV of this permit application. The Site Operating Plan details the required equipment, personnel, and safety procedures required to operate the site in accordance with §330.65. The active landfill area will be covered each evening to control potential nuisance conditions such as odors and vectors. The Camelot Landfill will continue to be inspected by the TCEQ on a regular basis for compliance with state regulations.

The operating hours at the site are 3:00 a.m. to 7:30 p.m. Monday through Friday and 4:00 a.m. to 3:00 p.m. on Saturday. The site is closed on Sunday.

2.2 Regulatory Agency Coordination

Documentation of coordination with the following regulatory agencies is included in Appendix I/IIB:

- Federal Aviation Administration
- Texas Historical Commission
- Texas Department of Transportation
- Texas Parks and Wildlife Department
- North Central Texas Council of Governments
- U.S. Army Corps of Engineers
- U.S. Department of the Interior, Fish and Wildlife Service

In addition, all excavation areas and improvements will be consistent with approved engineering site plans and with permit approvals from the Federal Emergency Management Agency (FEMA), Trinity River Steering Committee/Flood Management Task Force (Corridor Development Certificate), the U.S. Army Corps of Engineers, and Lewisville, as applicable.

2.3 Texas Historical Commission Review

As noted in Section 2.2, a Texas Historical Commission coordination letter is included in Appendix I/IIB. The Historical Commission concluded that no historic properties will be affected by the proposed expansion.

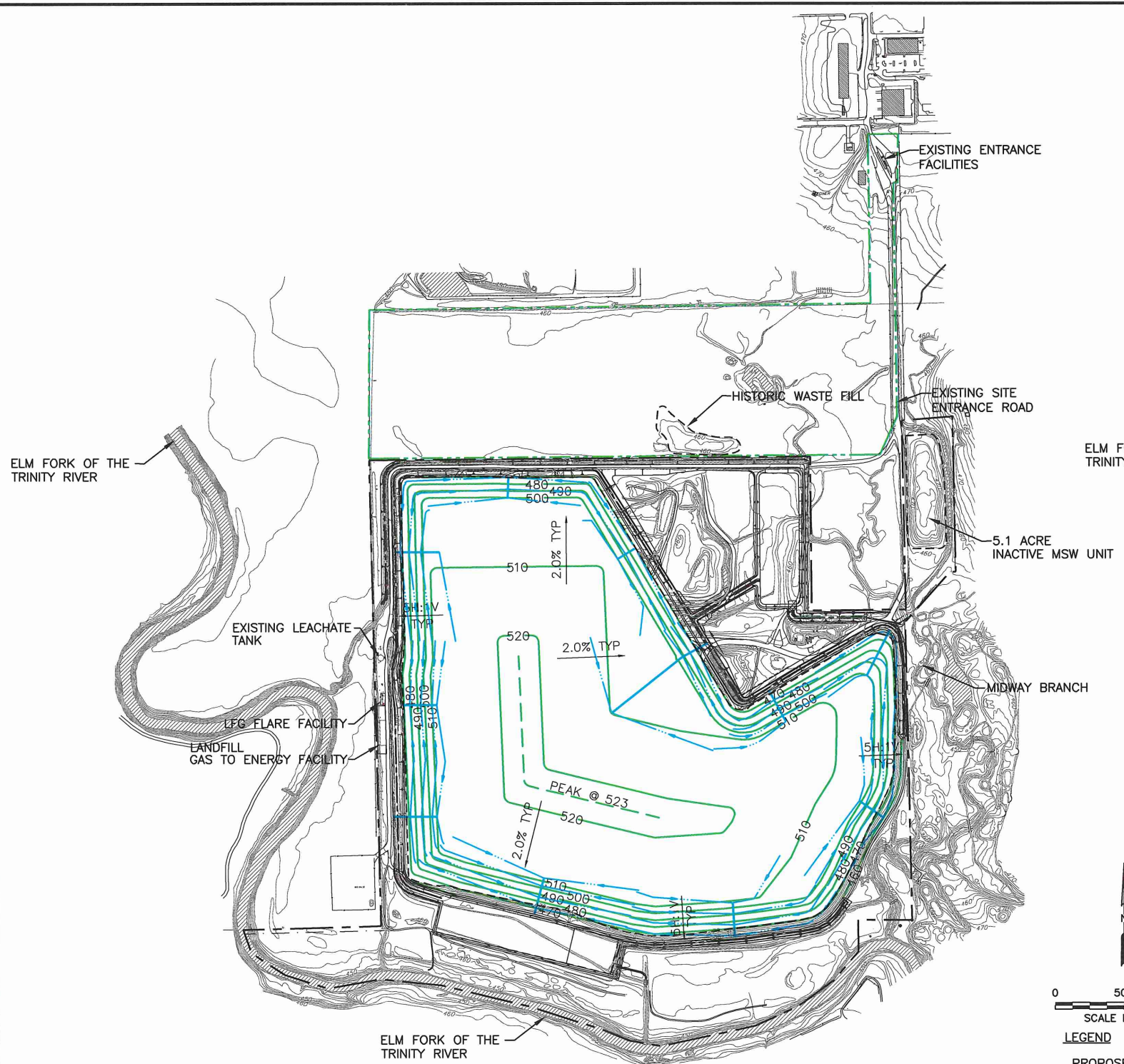
2.4 North Central Texas Council of Governments

The expansion of the Camelot Landfill is consistent with the North Central Texas Council of Governments (NCTCOG) Regional Solid Waste Management Plan. Parts I/II of this application was submitted to the NCTCOG in March 2012. A letter documenting that Parts I/II was submitted to the NCTCOG is included in Appendix I/IIB. In addition, on February 28, 2013, the NCTCOG Resource Conservation Council found this project consistent with the goals of the Regional Solid Waste Management Plan (refer to Appendix I/IIB for additional information).

2.5 Abandoned Oil and Water Wells

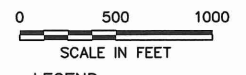
At the time of this submittal, there are no known abandoned oil, gas, or water wells at the site. However, if an abandoned oil, gas, or water well is located, the Landfill Manager will provide written notification to the TCEQ's Executive Director of their location within

0:\1339\351\EXPANSION 2009\PARTS 1-II\2.1-FC COMPARISON.dwg, 10/17/2016 2:56:00 PM, r.morris, 1:2

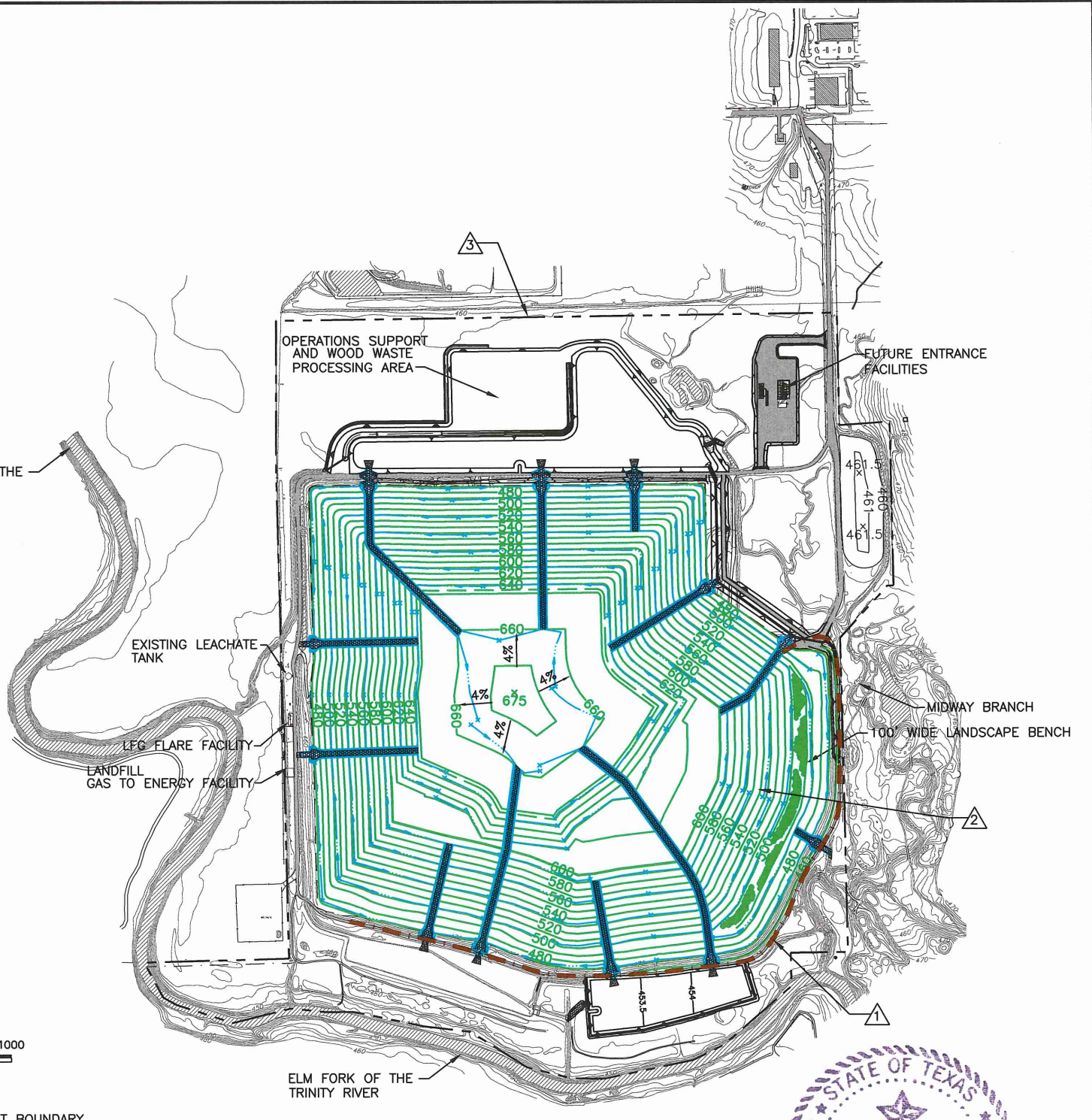


PERMITTED LANDFILL COMPLETION PLAN
(TCEQ PERMIT NO. MSW-1312A)

- NOTE:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 1988.
 2. PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW 1312A WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED NOVEMBER 2010.
 3. PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW 1312B WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
 4. PERMIT BOUNDARY REPRODUCED FROM THE LEGAL DESCRIPTION INCLUDED IN TCEQ PERMIT NO. MSW-946 DATED MARCH 15, 1979.



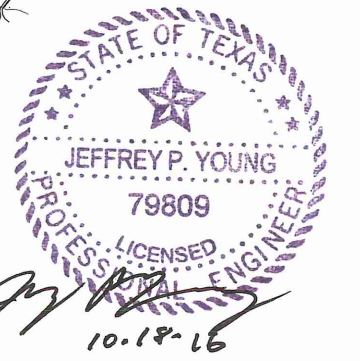
- LEGEND**
- PROPOSED PERMIT BOUNDARY (TCEQ PERMIT NO. MSW 1312B)
 - EXISTING PERMIT BOUNDARY (TCEQ PERMIT NO. MSW 1312A)
 - PROPOSED LIMIT OF WASTE
 - AUTHORIZED LIMIT OF WASTE
 - PERMIT BOUNDARY FOR (TCEQ PERMIT NO. MSW 946)
 - 500 EXISTING CONTOUR
 - 600 FINAL COVER CONTOUR
 - DRAINAGE LETDOWN
 - DRAINAGE SWALE
 - EXISTING SLURRY WALL
 - 600 REGRADED BUFFER ZONE (GREENFIELD/OPEN SPACE) AREA
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)



PROPOSED LANDFILL COMPLETION PLAN
(TCEQ PERMIT NO. MSW-1312B)

LIST OF REVISIONS:

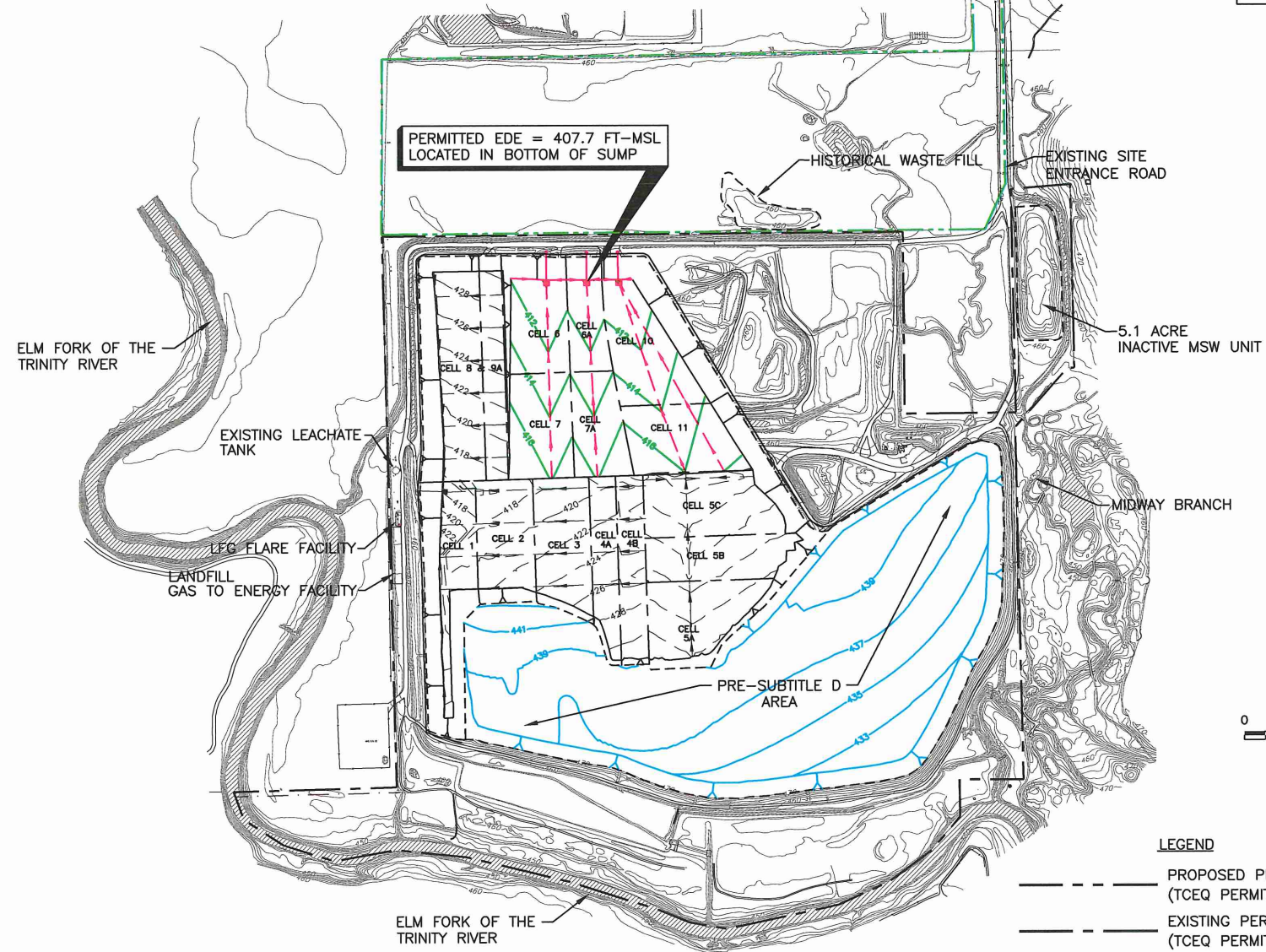
1. REVISED SLURRY WALL TO EXISTING LOCATION.
2. UPDATED FINAL COVER CONTOURS.
3. UPDATED PERMIT BOUNDARY INFORMATION.



<input type="checkbox"/> 90% REVIEW <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT EXISTING AND PROPOSED LANDFILL COMPLETION PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS	
DATE: 04/2016 FILE: 1339-351-11 CAD: 2.1_FC COMPARISON.DWG	DRAWN BY: JDW DESIGN BY: CRM REVIEWED BY: JAE	REVISIONS		www.wcgrp.com	
		NO.	DATE	DESCRIPTION	
		10	10/2016	SEE LIST OF REVISIONS	
Weaver Consultants Group TBPE REGISTRATION NO. F-3727				FIGURE 1/II-2.1	

EXISTING

ITEM	AREA (AC)
PRE-SUBTITLE D AREA	88.4
INACTIVE MSW AREA	5.1
DEVELOPED SUBTITLE D CELLS (CELLS 1 THROUGH 5, 8, AND 9A)	70.9
UNDEVELOPED SUBTITLE D CELLS (CELLS 6, 6A, 7, 7A, 10, AND 11)	35.0
AREA WITH FINAL COVER	24.3



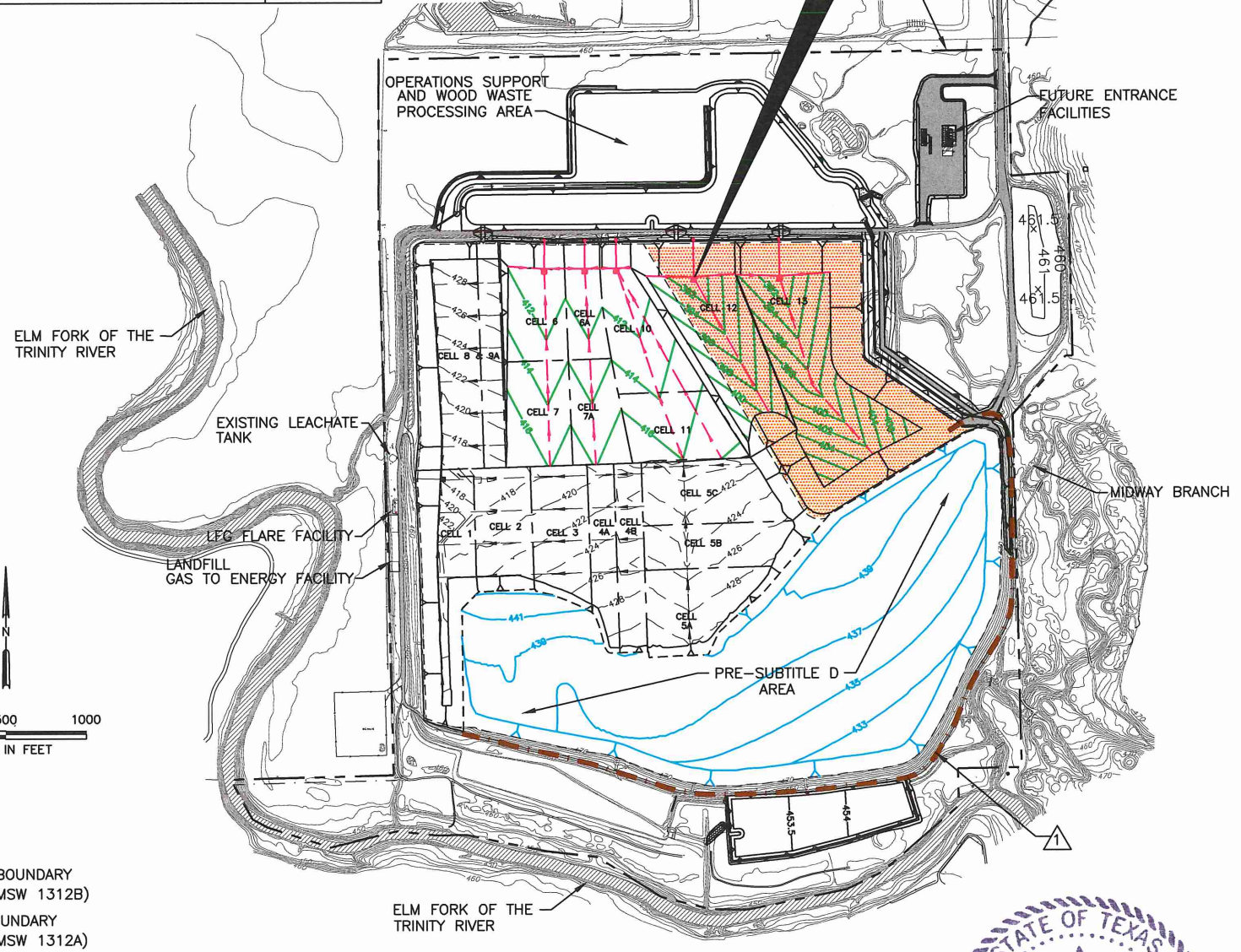
PERMITTED EXCAVATION PLAN
(TCEQ PERMIT NO. MSW-1312A)

NOTE:

- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 1988.
- PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW 1312A WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATE NOVEMBER 2010.
- PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW 1312B WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
- PERMIT BOUNDARY REPRODUCED FROM THE LEGAL DESCRIPTION INCLUDED IN TCEQ PERMIT NO. MSW-946 DATED MARCH 15, 1979.

PROPOSED

ITEM	AREA (AC)
PRE-SUBTITLE D AREA	88.4
DEVELOPED SUBTITLE D CELLS (CELLS 1 THROUGH 5, 8, AND 9A)	70.9
OVERLINER CELLS (CELLS 01 THROUGH 06)	61.7
UNDEVELOPED SUBTITLE D CELLS (CELLS 6, 6A, 7, 7A, AND 10 THROUGH 13)	77.5
AREA WITH FINAL COVER	24.3



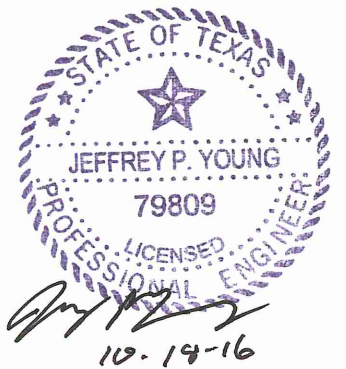
PROPOSED EXCAVATION PLAN
(TCEQ PERMIT NO. MSW-1312B)

LEGEND

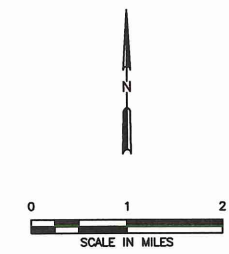
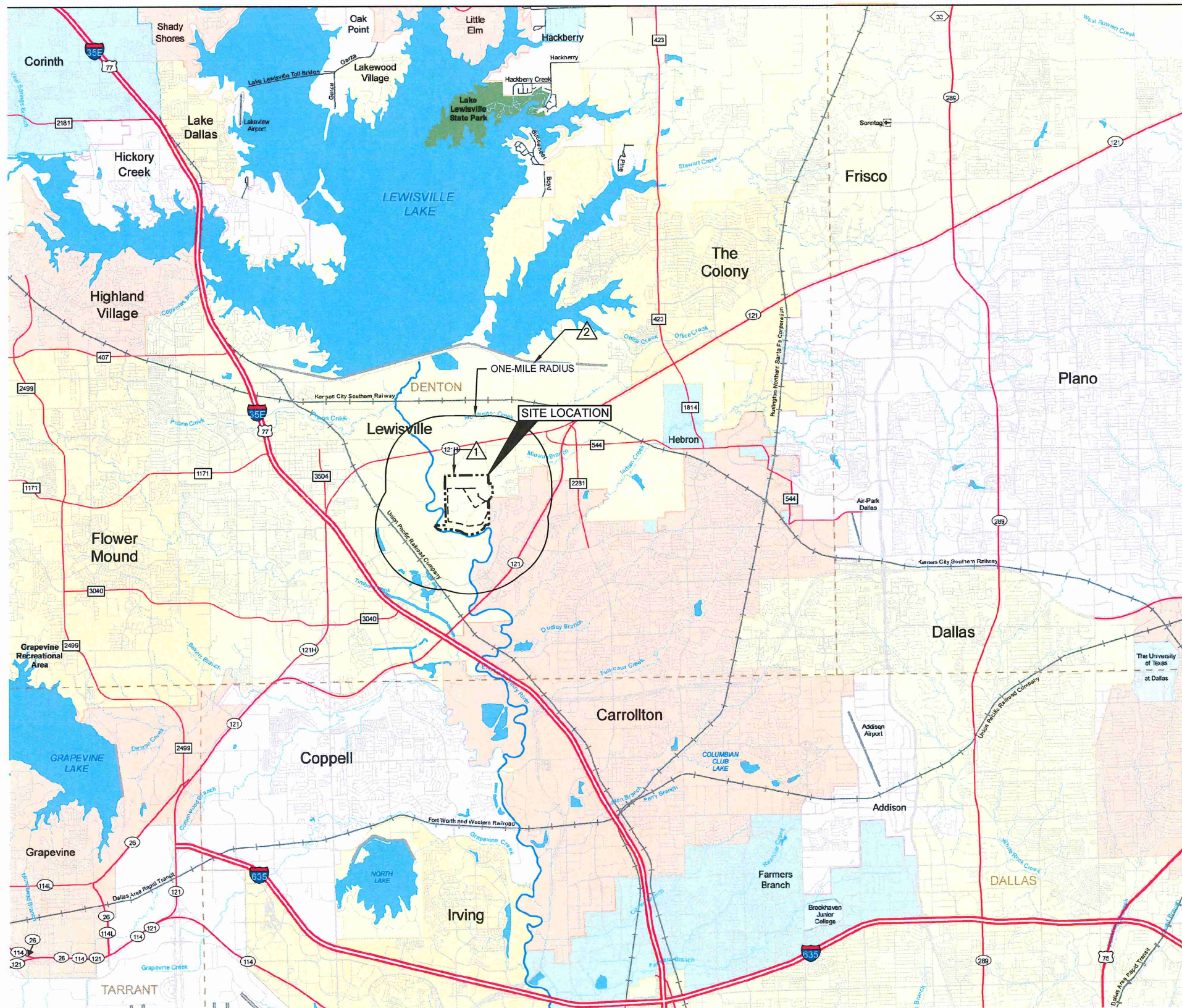
- PROPOSED PERMIT BOUNDARY (TCEQ PERMIT NO. MSW 1312B)
- EXISTING PERMIT BOUNDARY (TCEQ PERMIT NO. MSW 1312A)
- PROPOSED LIMIT OF WASTE
- AUTHORIZED LIMIT OF WASTE
- PERMIT BOUNDARY FOR (TCEQ PERMIT NO. MSW 946)
- 500 EXISTING CONTOUR
- 388 EXCAVATION CONTOUR
- LEACHATE LINE
- LEACHATE COLLECTION SUMP
- LEACHATE RISER
- 422 AS-BUILT TOP OF SUBTITLE D GEOMEMBRANE LINER
- 433 APPROXIMATE BOTTOM OF WASTE CONTOUR IN PRE-SUBTITLE D AREA
- PROPOSED WASTE FOOTPRINT LATERAL EXPANSION AREA
- EXISTING SLURRY WALL
- 600 REGRADED BUFFER ZONE (GREENFIELD/OPEN SPACE) AREA
- △ INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

- REVISED TO SHOW EXISTING LOCATION OF SLURRY WALL.
- UPDATED PERMIT BOUNDARY INFORMATION.



<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT EXISTING AND PROPOSED EXCAVATION PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS									
DATE: 03/2012 FILE: 1339-351-11 CAD: 2.2_EXCAV COMPARISON.DWG	DRAWN BY: JDW DESIGN BY: MDM REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11/2012</td> <td>SUPPLEMENTAL SUBMITTAL</td> </tr> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	1	11/2012	SUPPLEMENTAL SUBMITTAL	10	10/2016	SEE LIST OF REVISIONS	Weaver Boos Consultants TBPE REGISTRATION NO. F-3727
NO.	DATE	DESCRIPTION										
1	11/2012	SUPPLEMENTAL SUBMITTAL										
10	10/2016	SEE LIST OF REVISIONS										
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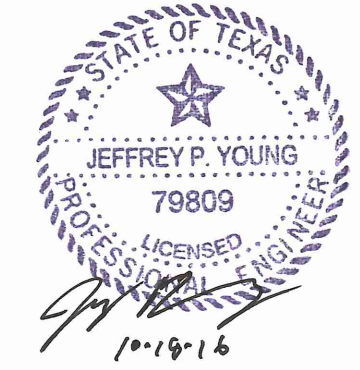
- LEGEND**
- PERMIT BOUNDARY
 - AUTHORIZED LIMIT OF WASTE
 - PROPOSED LIMIT OF WASTE
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

- Legend**
- IH, BI
 - US, BU, UA, UP
 - SH, BS
 - SL, SS, PR
 - FM, BF, RM, RR, RE, RS, PA
 - County Road
 - City Street or other Non-County Maintained Road
 - Railroad
 - Incorporated City
 - Unincorporated Community
 - Airport
 - Airport Runway
 - School
 - Military Installation
 - Prison
 - National or State Park
 - National or State Forest
 - Other Public Land
 - Cemetery
 - Dam
 - County Line
 - District Line
 - Canal
 - Flowing Stream
 - Intermittent Stream
 - River
 - Gulf Intracoastal Waterway
 - Other Body of Water

NOTE:

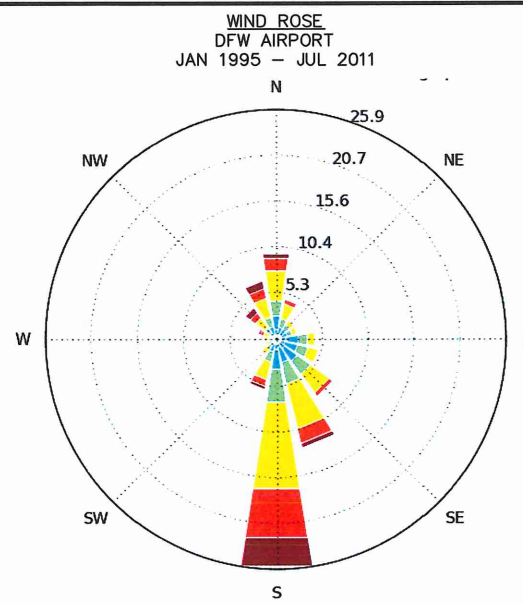
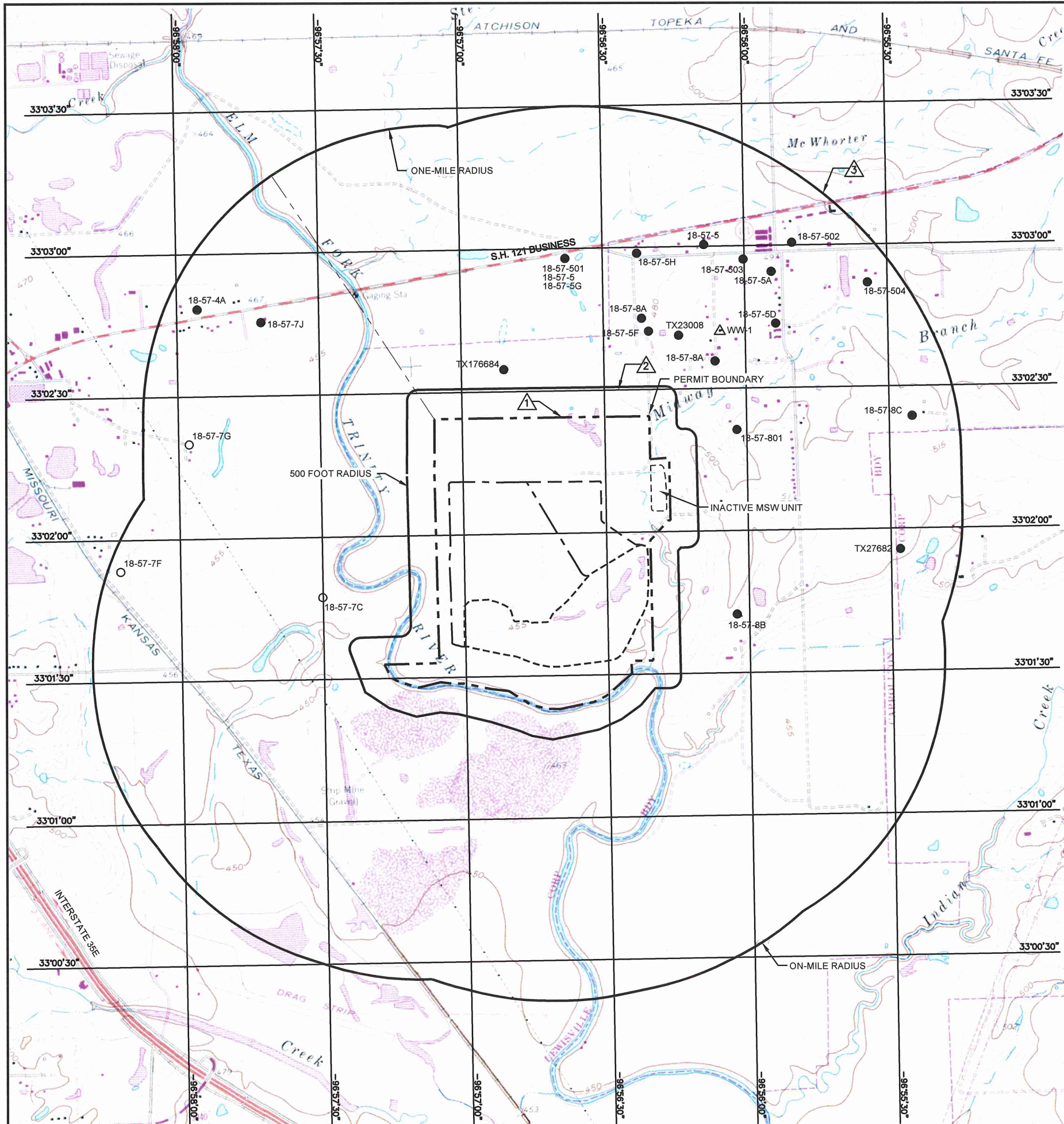
- REPRODUCED FROM PAGE 481 OF THE TxDOT COUNTY MAPBOOK 2010 (TEXAS DEPARTMENT OF TRANSPORTATION, TRANSPORTATION PLANNING AND PROGRAMMING DIVISION). THIS MAP SHOWS PORTIONS OF DENTON, COLLIN, DALLAS, AND TARRANT COUNTIES.

- LIST OF REVISIONS:**
- UPDATED PERMIT BOUNDARY.
 - UPDATED ONE-MILE RADIUS.

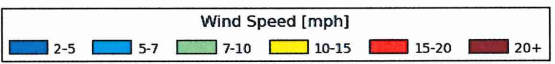


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	DATE: 03/2012 FILE: 1339-351-11 CAD: 4.1-SITE LOC MAP.DWG		DRAWN BY: JDW DESIGN BY: JAE REVIEWED BY: JPY														
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NO.	DATE	DESCRIPTION															
10	10/2016	SEE LIST OF REVISIONS															
<small>CHICAGO, IL NAPERVILLE, IL COLUMBUS, OH DENVER, CO</small>		<small>FORT WORTH, TX (817) 735-9770</small>															
<small>GRIFITH, IN SOUTH BEND, IL SPRINGFIELD, IL ST. LOUIS, MO</small>		FIGURE 1/II-4.1															

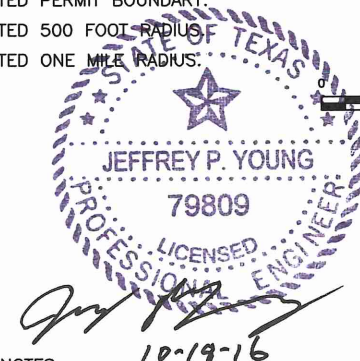
O:\1339\351\EXPANSION 2009\PARTS 1-II\4.1-SITE LOCATION MAP.dwg, 10/17/2016 3:01:01 PM, r.morris, 1:2



- LEGEND**
- PERMIT BOUNDARY
 - AUTHORIZED PERMITTED PRE-SUBTITLE D AREA LIMIT OF WASTE (PERMIT NO. MSW-1312A)
 - AUTHORIZED PERMITTED SUBTITLE D AREA LIMIT OF WASTE (PERMIT NO. MSW-1312A)
 - PROPOSED LIMIT OF WASTE
 - GEODETIC COORDINATE SYSTEM
 - TX176684 REGISTERED WATER WELL WITH GRID NUMBER OR WELL ID NUMBER ANNOTATED
 - ▲ WW-1 POTENTIAL WATER WELL LOCATION IDENTIFIED BY WBC IN MARCH 2011 FROM ADJACENT ROADWAY
 - 18-57-7G FORMER WATER WELL LOCATION DESCRIBED IN PERMIT NO. MSW-1312A APPLICATION
 - ▲ INDICATES REVISION (SEE LIST OF REVISIONS)



- LIST OF REVISIONS:**
1. UPDATED PERMIT BOUNDARY.
 2. UPDATED 500 FOOT RADIUS.
 3. UPDATED ONE MILE RADIUS.



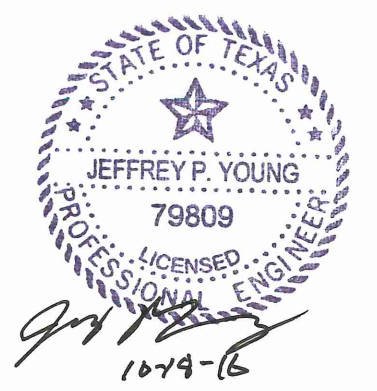
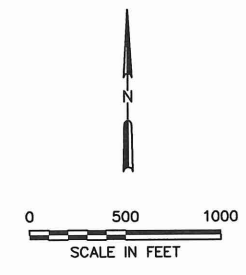
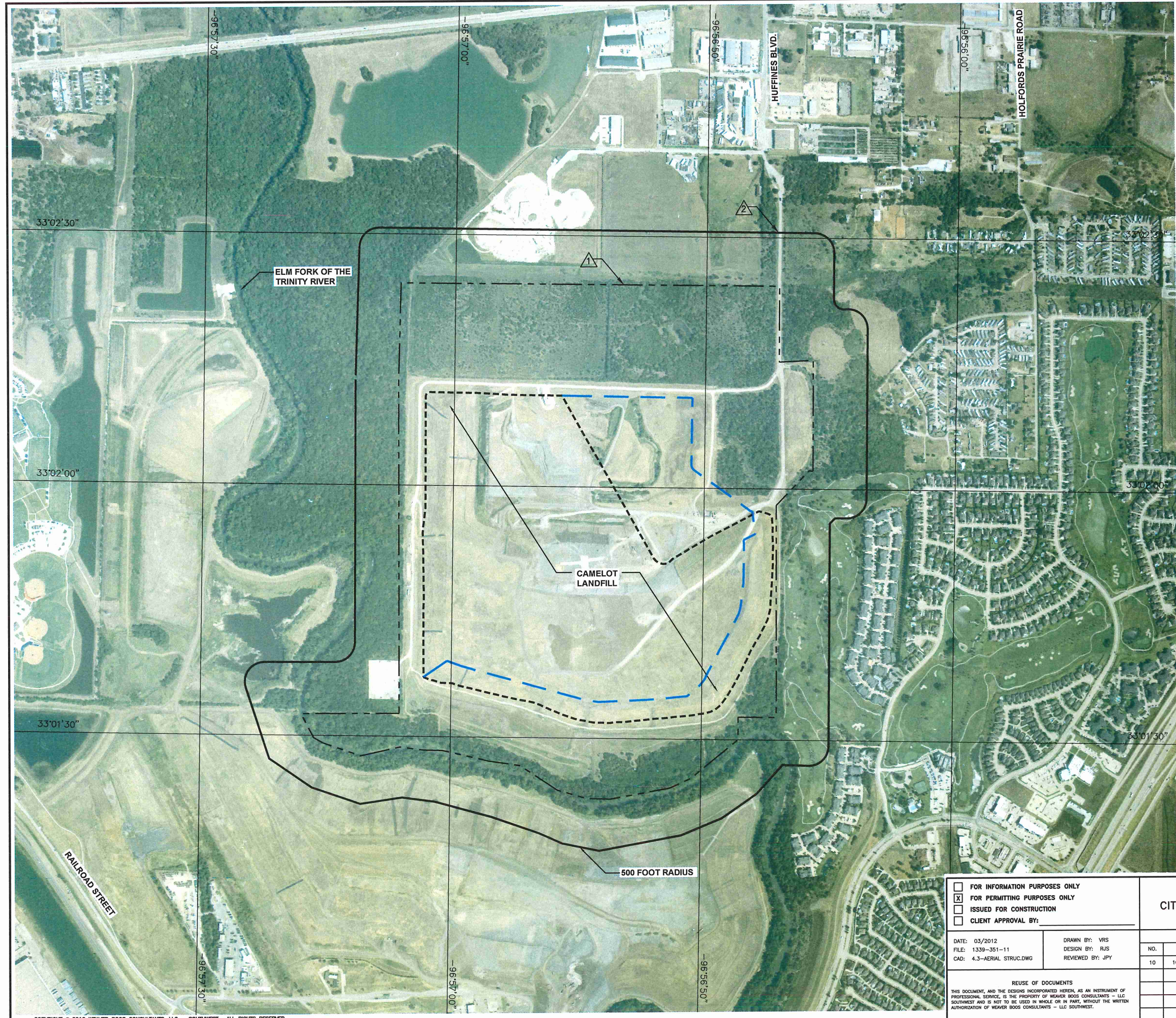
NOTES:

1. ACCESS ROADS WITHIN ONE-MILE OF THE SITE INCLUDE HUFFINES BOULEVARD, STATE HIGHWAY 121 BUSINESS, MIDWAY ROAD, HOLFORDS PRAIRIE ROAD, STATE HIGHWAY 121, RAILROAD STREET, AND HEBRON PARKWAY.
2. SEE FIGURE I/II-5.1 FOR PROPERTY OWNERS WITHIN 1,320 FEET OF THE SITE.
3. SEE SECTION 7.2 FOR DISCUSSION OF WATER WELLS. SEE APPENDIX III G FOR ADDITIONAL WATER WELL LOCATION INFORMATION.
4. WITHIN ONE-MILE OF THE SITE THERE ARE THREE SCHOOLS, EIGHT CHURCHES, ONE DAY CARE FACILITY. THERE ARE NO HISTORICAL MARKERS, HOSPITALS, OR SITES WITH EXCEPTIONAL AESTHETIC QUALITIES. BOTH THE ELM FORK OF THE TRINITY RIVER AND MIDWAY BRANCH ARE LOCATED WITHIN THE 1-MILE RADIUS AREA AS WELL AS SEVERAL SMALL STOCK PONDS (REFER TO THE LAND USE STUDY IN APPENDIX I/II E FOR MORE INFORMATION).
5. REFER TO FIGURE I/II-4.3 FOR LOCATION OF THE NEAREST RESIDENCE.
6. THERE ARE NO AIRPORTS WITHIN 6-MILES OF THE PERMIT BOUNDARY (SEE SECTION 8 FOR MORE INFORMATION).
7. REFER TO SECTION 13 AND APPENDIX I/II A, DRAWING I/II A.1 FOR EASEMENT INFORMATION. REFER TO DRAWING I/II A.12 FOR ACCESS CONTROL INFORMATION.
8. THE WIND ROSE IS REPRODUCED FROM THE TEXAS AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) AT THE DFW AIRPORT. THE ASOS IS A JOINT PROGRAM OF THE NATIONAL WEATHER SERVICE, THE FEDERAL AVIATION ADMINISTRATION, AND THE DEPARTMENT OF DEFENSE.
9. ALL TOPOGRAPHIC INFORMATION FROM UNITED STATES GEOLOGICAL SURVEY 7 1/2 MINUTE QUADRANGLE SHEETS LEWISVILLE EAST, TEX; CARROLTON, TEX.
10. NO SPRINGS EXIST WITHIN A 1-MILE RADIUS OF THE SITE.
11. WATER WELL LOCATIONS ARE APPROXIMATE AND BASED ON WELL DRILLER SUPPLIED INFORMATION AND TWDB GRID MAP ON PAGE III G-A-60 IN APPENDIX III G-A.
12. FORMER WATER WELL LOCATIONS OBTAINED FROM PERMIT NO. MSW-1312A APPLICATION.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT GENERAL TOPOGRAPHIC MAP CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727					
DATE: 03/2012 FILE: 1339-351-11 CAD: 2-GEN. TOPO. MAP.DWG	DRAWN BY: VRS DESIGN BY: RJS REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016
NO.	DATE	DESCRIPTION						
10	10/2016	SEE LIST OF REVISIONS						
REUSE OF DOCUMENTS <small>THIS DOCUMENT, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WEAVER BOOS CONSULTANTS - LLC. SOUTHWEST AND IS NOT TO BE USED IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF WEAVER BOOS CONSULTANTS - LLC SOUTHWEST.</small>		CHICAGO, IL NAPERVILLE, IL COLUMBUS, OH DENVER, CO	FORT WORTH, TX SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO					
COPYRIGHT © 2012 WEAVER BOOS CONSULTANTS, LLC - SOUTHWEST. ALL RIGHTS RESERVED.			FIGURE I/II-4.2					

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O:\1339\361\EXPANSION 2009\PARTS 1-II\4.3-AERIAL STRUCTURES.dwg, 10/17/2016 3:06:11 PM, r.morris, 1:2



- LEGEND:**
- PERMIT BOUNDARY
 - AUTHORIZED LIMIT OF WASTE
 - NEWLY PERMITTED LIMIT OF WASTE (SEE NOTE 3)
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTES:**
1. AERIAL PHOTOGRAPH PROVIDED BY METROPOLITAN AERIAL SURVEYS, FROM AERIAL PHOTOGRAPHY FLOWN ON AUGUST 28, 2010.
 2. ALL STRUCTURES WITHIN 500 FEET ARE SHOWN ON THIS FIGURE. EACH STRUCTURE IS ASSUMED TO BE HABITABLE. LAND USE WITHIN A 500-FOOT RADIUS OF THE SITE CONSISTS OF INDUSTRIAL, RESIDENTIAL AND OPEN SPACE. THE NEAREST STRUCTURE TO THE PERMIT BOUNDARY IS LOCATED 40 FEET NORTH OF THE PERMIT BOUNDARY. NO RESIDENCES ARE LOCATED WITHIN 500 FEET OF THE PERMIT BOUNDARY. THE NEAREST RESIDENCE IS LOCATED 680 FEET EAST OF THE PERMIT BOUNDARY.
 3. THE NEWLY PERMITTED AIRSPACE LIMIT OF WASTE (AS REFERENCED IN §330.543(b)(2)) REFLECTS THE LATERAL EXPANSION AREA AND THE LIMITS OF WASTE THAT IS ASSOCIATED WITH THE VERTICAL EXPANSION AREA FOR MSW PERMIT NO. 1312B.

- LIST OF REVISIONS:**
1. UPDATED PERMIT BOUNDARY.
 2. UPDATED 500 FOOT RADIUS.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____		PREPARED FOR CITY OF FARMERS BRANCH							
DATE: 03/2012 FILE: 1339-351-11 CAD: 4.3-AERIAL STRUC.DWG	DRAWN BY: VRS DESIGN BY: RJS REVIEWED BY: JPY	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS
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**MAJOR PERMIT AMENDMENT
STRUCTURES AND INHABITABLE
BUILDINGS WITHIN 500 FEET**

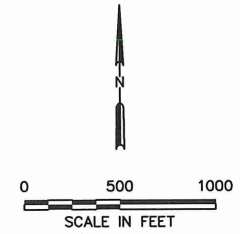
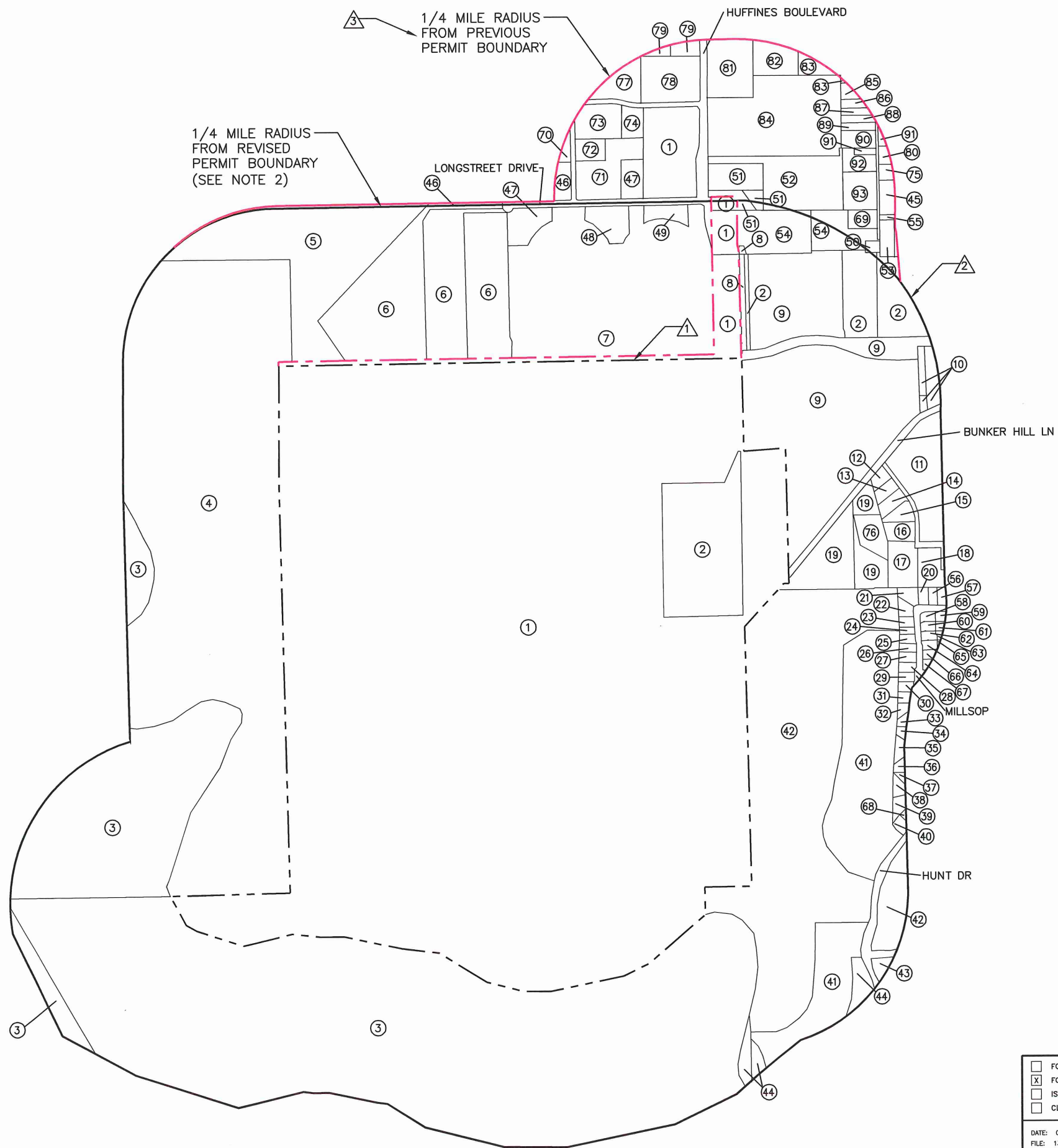
**CAMELOT SANITARY LANDFILL
DENTON COUNTY, TEXAS**

Weaver Boos Consultants
 TBPE REGISTRATION NO. F-3727

CHICAGO, IL	FORT WORTH, TX	GRIFFITH, IN
NAPEVILLE, IL	(817) 735-9770	SOUTH BEND, IN
DENVER, CO		SPRINGFIELD, IL
		ST. LOUIS, MO

FIGURE I/II-4.3

O:\1339\351\EXPANSION 2009\PARTS 1-11\5.1-LANDOWNERS MAP.dwg, 10/17/2016 3:06:48 PM, r.morris, 1:2



- LEGEND**
- REVISED PERMIT BOUNDARY
 - 1/4 MILE RADIUS LIMIT FROM REVISED PERMIT BOUNDARY
 - - - PREVIOUS PERMIT BOUNDARY
 - - - 1/4 MILE RADIUS LIMIT FROM PREVIOUS PERMIT BOUNDARY
 - ① PROPERTY OWNER DESIGNATION
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

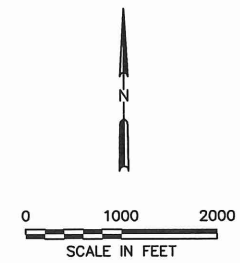
- NOTES:**
- ① REFER TO LANDOWNERS LISTED ON TABLE 1/II-5.1.
 - THIS LINE REPRESENTS A 1/4 MILE DISTANCE FROM THE LIMIT OF THE PERMIT BOUNDARY.
 - REFER TO APPENDIX 1/IIA, DRAWING 1/IIA.1 FOR LOCATION OF EASEMENTS WITHIN THE PERMIT BOUNDARY.

- LIST OF REVISIONS:**
- UPDATED PERMIT BOUNDARY.
 - UPDATED 1/4 MILE RADIUS.
 - ADDED CALLOUT FOR PREVIOUS 1/4 MILE RADIUS AND PERMIT BOUNDARY.



<input type="checkbox"/> FOR INFORMATIONAL PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____	PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT PROPERTY OWNERS MAP CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727																		
DATE: 03/2012 FILE: 1339-351-11 CAD: 5.1-LANDOWNERS MAP.DWG	DRAWN BY: JDW DESIGN BY: JAE REVIEWED BY: NT	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS									
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		FORT WORTH, TX SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO																		
		FIGURE 1/II-5.1																		

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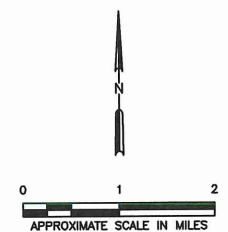
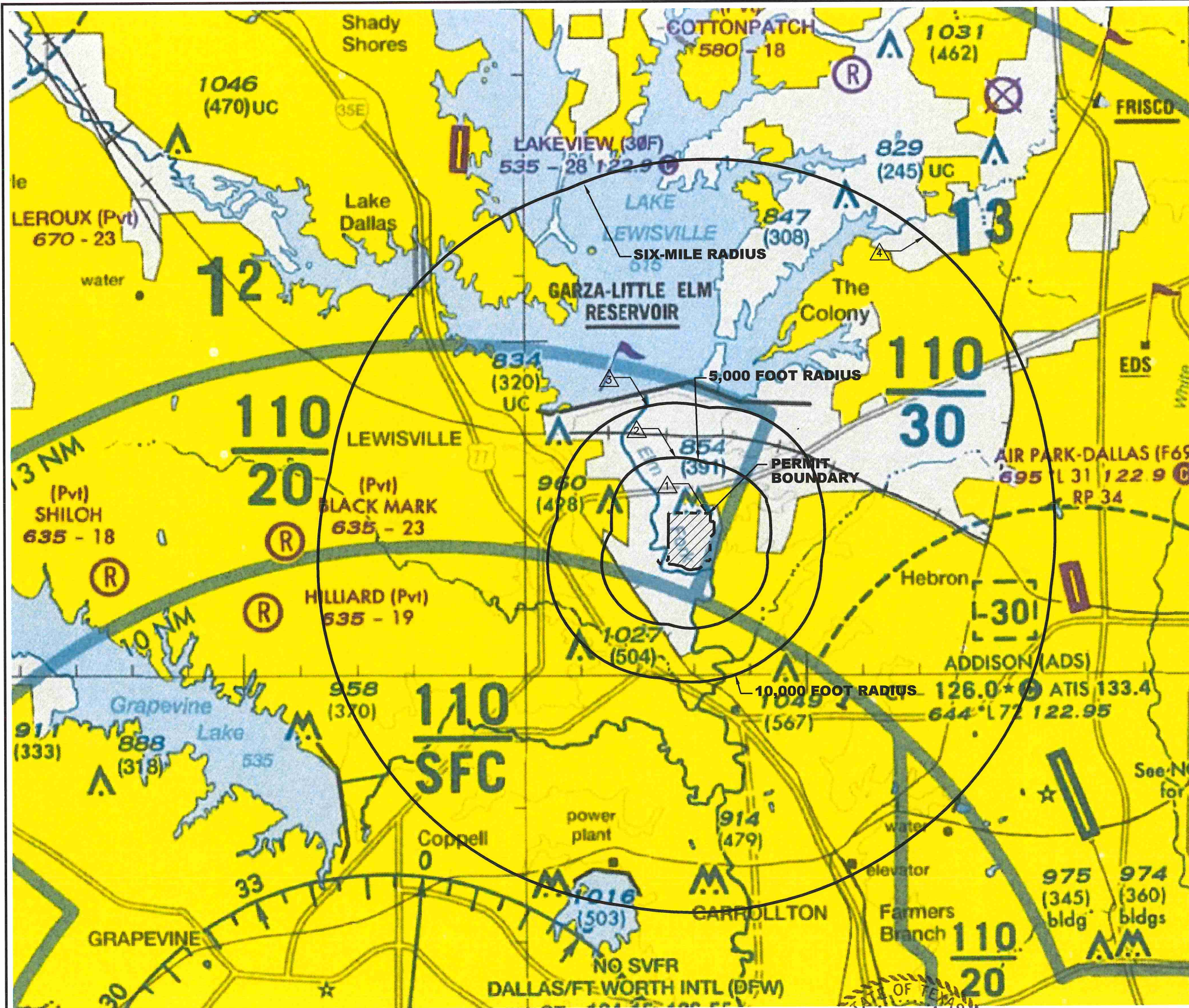
- LEGEND:**
- PERMIT BOUNDARY
 - - - - AUTHORIZED LIMIT OF WASTE
 - - - - PROPOSED LIMIT OF WASTE
 - ▲ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTE:**
1. AERIAL PHOTOGRAPH PROVIDED BY METROPOLITAN AERIAL SURVEYS, FROM AERIAL PHOTOGRAPHY FLOWN ON AUGUST 28, 2010.
 2. THE INACTIVE MSW UNIT IN THE NORTHEASTERN PORTION OF THE SITE IS NOT DELINEATED SINCE THE WASTE IN THIS AREA WILL BE RELOCATED.



- LIST OF REVISIONS:**
1. UPDATED PERMIT BOUNDARY.
 2. UPDATED ONE-MILE RADIUS.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____	PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT AERIAL PHOTOGRAPHY CAMELOT LANDFILL DENTON COUNTY, TEXAS															
DATE: 03/2012 FILE: 1339-351-11 CAD: 6.1-AERIAL.DWG	DRAWN BY: JDW DESIGN BY: JAE REVIEWED BY: JPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS						
REVISIONS																	
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10	10/2016	SEE LIST OF REVISIONS															
<p style="font-size: small;">REUSE OF DOCUMENTS</p> <p style="font-size: x-small;">THIS DOCUMENT, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WEAVER BOOS CONSULTANTS, LLC-SOUTHWEST AND IS NOT TO BE USED IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF WEAVER BOOS CONSULTANTS, LLC-SOUTHWEST.</p>		<p style="font-size: small;">CHICAGO, IL FORT WORTH, TX GRIFFITH, IN NAPERVILLE, IL SOUTH BEND, IN COLUMBUS, OH (817) 735-9770 SPRINGFIELD, IL DENVER, CO ST. LOUIS, MO</p> <p style="font-size: small;"> Weaver Boos Consultants TBPE REGISTRATION NO. F-3727 </p>															
COPYRIGHT © 2012 WEAVER BOOS CONSULTANTS, LLC - SOUTHWEST. ALL RIGHTS RESERVED.		FIGURE 1/11-6.1															



AIRPORTS

- Other than hard-surfaced runways
- Hard-surfaced runways 1500 ft. or greater
- Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, or VORTAC location.

ADDITIONAL AIRPORT INFORMATION

- Private (Pvt) - Non-public use having emergency or landmark value.
- Military - Other than hard-surfaced. All military airports are identified by abbreviations AFB, NAS, AAF, etc. For complete airport information consult DOD FLIP.
- Helipad Selected
- Unverified
- Abandoned - paved having landmark value, 3000 ft. or greater
- Ultralight Flight Park Selected

Services-fuel available and field tended during normal working hours depicted by use of ticks around basic airport symbol. (Normal working hours are Mon thru Fri 10:00 A.M. to 4:00 P.M. local time.) Consult A/FD for service availability at airports with hard-surfaced runways 1500 ft. or greater.

☆ Rotating airport beacon in operation Sunset to Sunrise.

PERMIT BOUNDARY

INDICATES REVISION (SEE LIST OF REVISIONS)

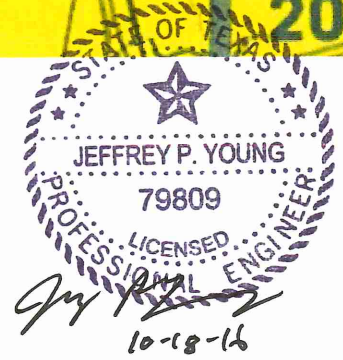
TOPOGRAPHIC INFORMATION

- Roads
- Road Markers
- Railroad
- Bridges And Viaducts
- Power Transmission Lines
- Aerial Cable
- Landmark Feature - stadium, factory, school, golf course, etc.
- Outdoor Theatre
- Lookout Tower P-17 (Site Number) 618 (Elevation Base of Tower)
- CG Coast Guard Station
- Race Track
- Tank - water, oil or gas
- Oil Well
- Water Well
- Mines And Quarries
- Mountain Pass
- 11823 (Elevation of Pass)

(Pass symbol does not indicate a recommended route or direction of flight and pass elevation does not indicate a recommended clearance altitude. Hazardous flight conditions may exist within and near mountain passes.)

- LIST OF REVISIONS:**
1. UPDATED PERMIT BOUNDARY.
 2. UPDATED 5,000 FOOT RADIUS.
 3. UPDATED 10,000 FOOT RADIUS.
 4. UPDATED SIX-MILE RADIUS RADIUS.
- NOTE:**
1. THIS MAP REPRODUCED FROM THE FAA DALLAS-FORT WORTH SECTIONAL AERONAUTICAL CHART 76th EDITION DATED SEPTEMBER 23, 2010.
 2. NO AIRPORTS ARE PRESENT WITHIN 10,000 FEET OF THE PERMIT BOUNDARY. THE NEAREST AIRPORT IS AIR PARK-DALLAS AIRPORT.

O:\1339\351\EXPANSION 2009\PARTS 1-11\B.1-Airport.dwg, 10/17/2016 3:10:41 PM, r.morris, 1:2



<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT AREA AIRPORTS CAMELOT LANDFILL DENTON COUNTY, TEXAS	
DATE: 03/2012 FILE: 0120-107-11 CAD: 5-AIRPORT.DWG		DRAWN BY: JDW DESIGN BY: JPY REVIEWED BY: JPY		REVISIONS	
				NO.	DATE
				10	10/2016
				DESCRIPTION	
				SEE LIST OF REVISIONS	
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COPYRIGHT © 2012 WEAVER BOOS CONSULTANTS, LLC - SOUTHWEST. ALL RIGHTS RESERVED.		FIGURE 1/II-8.1		Weaver Boos Consultants TBPE REGISTRATION NO. F-3727	

8 TRANSPORTATION

8.1 Traffic Information

Access roads within one mile of the site include Huffines Boulevard, State Highway 121 Business, Midway Road, Holfords Prairie Road, State Highway 121, Railroad Street, and Hebron Parkway. The site entrance facilities are located at 580 Huffines Boulevard, approximately 1,800 feet south of State Highway 121 Business, and are easily accessed from area population centers via State Highway 121 business and Huffines Boulevard.

*This section
addresses
§330.61(i).*

A traffic impact study was prepared in February 2011 by WBC to address roadway and traffic issues throughout the expected life of the Camelot Landfill. The traffic study is included in Parts I/II, Appendix I/IIID.

In summary, the traffic study concludes that the access roads within one mile of the landfill provide adequate access to the site. Coordination with TxDOT regarding traffic and location restrictions is included in Appendix I/IIB (TxDOT tab).

As noted in Section 2.1.2, the site life projection has been reduced by 3.5 years as a result of final contour plan revisions. The site life projection changed from 2039 to 2035 because of the capacity reduction (from 37.7 million cy to 30.3 million cy). This capacity reduction will result in a corresponding reduction in the amount of traffic over the life of the site.

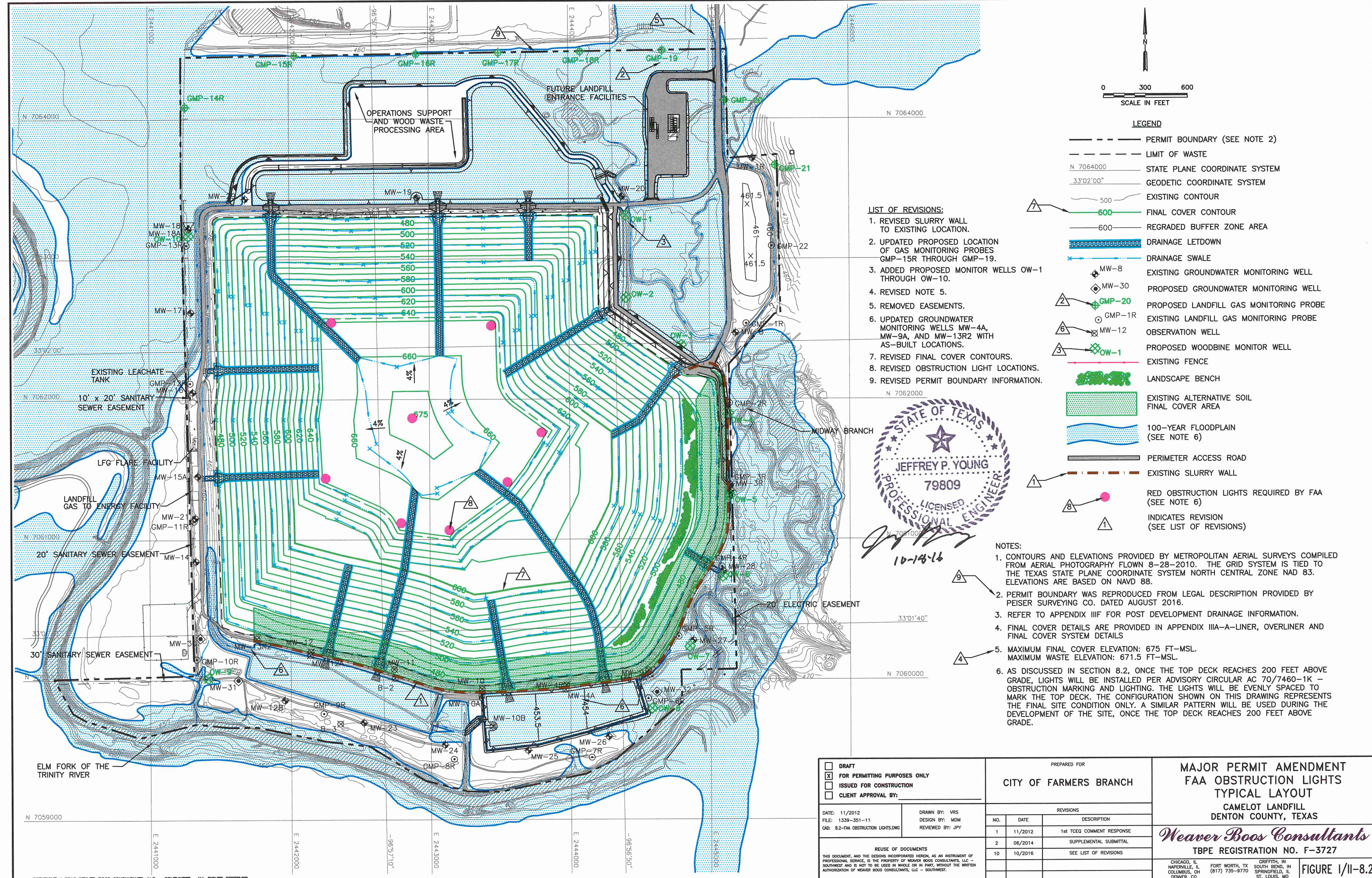
Given that the 2011 Traffic Study included in Appendix I/IIID was based on a longer projected life and higher traffic volumes, the conclusions listed in the study are still valid for the updated site configuration since they represent a conservative assessment of the future traffic loads associated with this project (i.e., the actual traffic loads on area access roads will be less than the analysis included in the 2011 Traffic Study).

8.2 Airport Impact

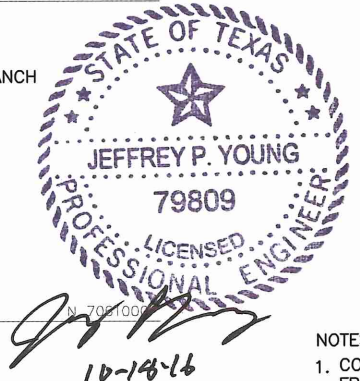
TCEQ distance restrictions set forth in §330.545 require municipal solid waste disposal facilities to be located no closer than 10,000 feet to any runway end used by turbojet aircraft or no closer than 5,000 feet to any runway end used by piston-engine aircraft. As shown on Figure I/II-8.1, the closest public airport is the Air Park-Dallas Airport, located approximately 6.1 miles south of the site.

In the FAA's letter dated January 4, 2011 (see correspondence in Appendix I/IIB), the FAA had no objection to the proposed changes from the standpoint of potential wildlife hazards to aircraft. In addition, the FAA also reviewed the proposed changes to determine the potential for the site to be a hazard to air navigation. As documented in a letter dated February 10, 2011, the FAA has determined that the proposed changes do not pose a hazard to air navigation (refer to Appendix I/IIB for more information). Appendix I/IIB also includes a letter from FAA that confirms that the FAA has completed the critical evaluation necessary to determine that an incompatibility does not exist with area airports and the landfill.

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- LIST OF REVISIONS:**
1. REVISED SLURRY WALL TO EXISTING LOCATION.
 2. UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
 3. ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
 4. REVISED NOTE 5.
 5. REMOVED EASEMENTS.
 6. UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
 7. REVISED FINAL COVER CONTOURS.
 8. REVISED OBSTRUCTION LIGHT LOCATIONS.
 9. REVISED PERMIT BOUNDARY INFORMATION.



LEGEND

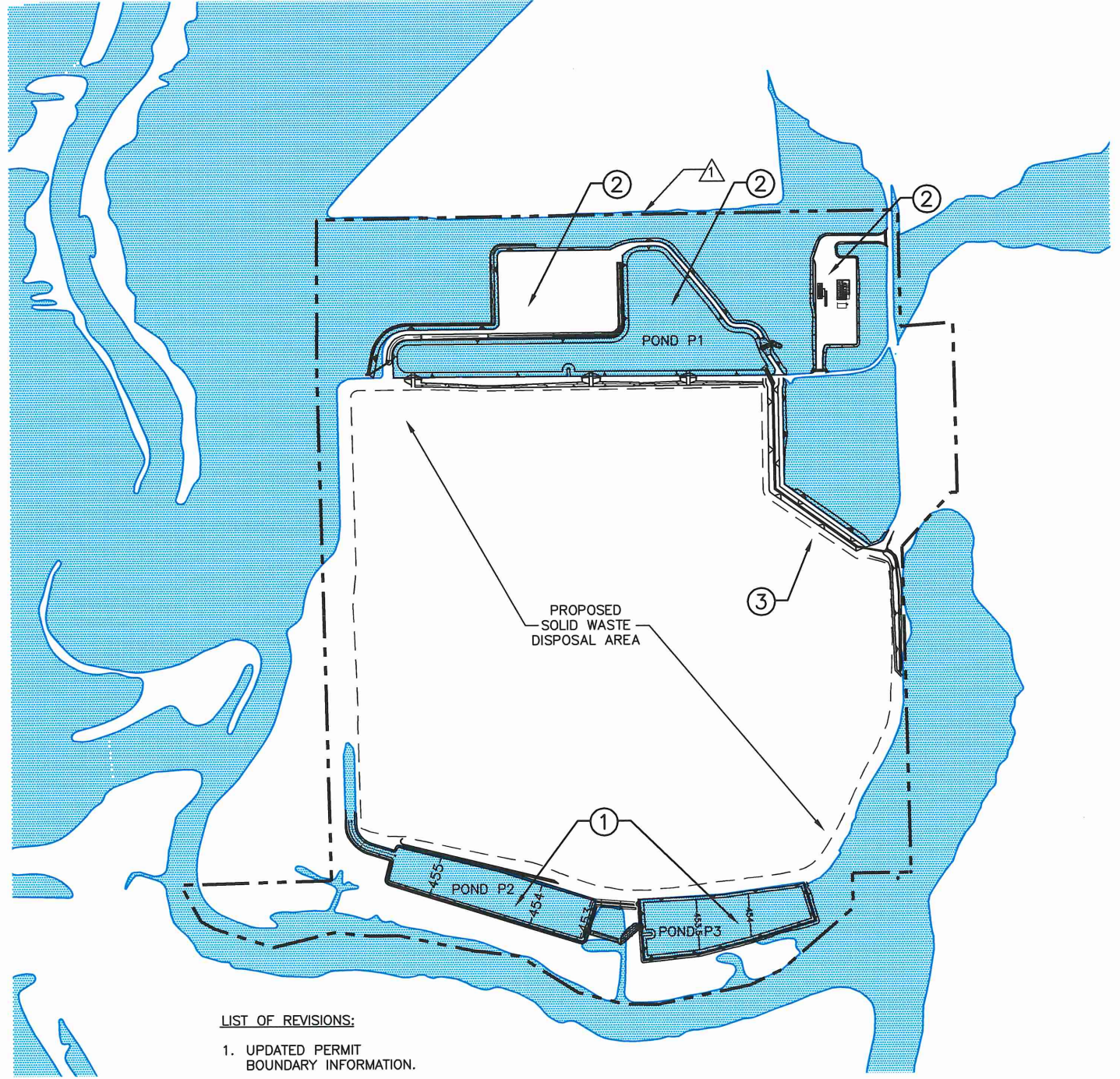
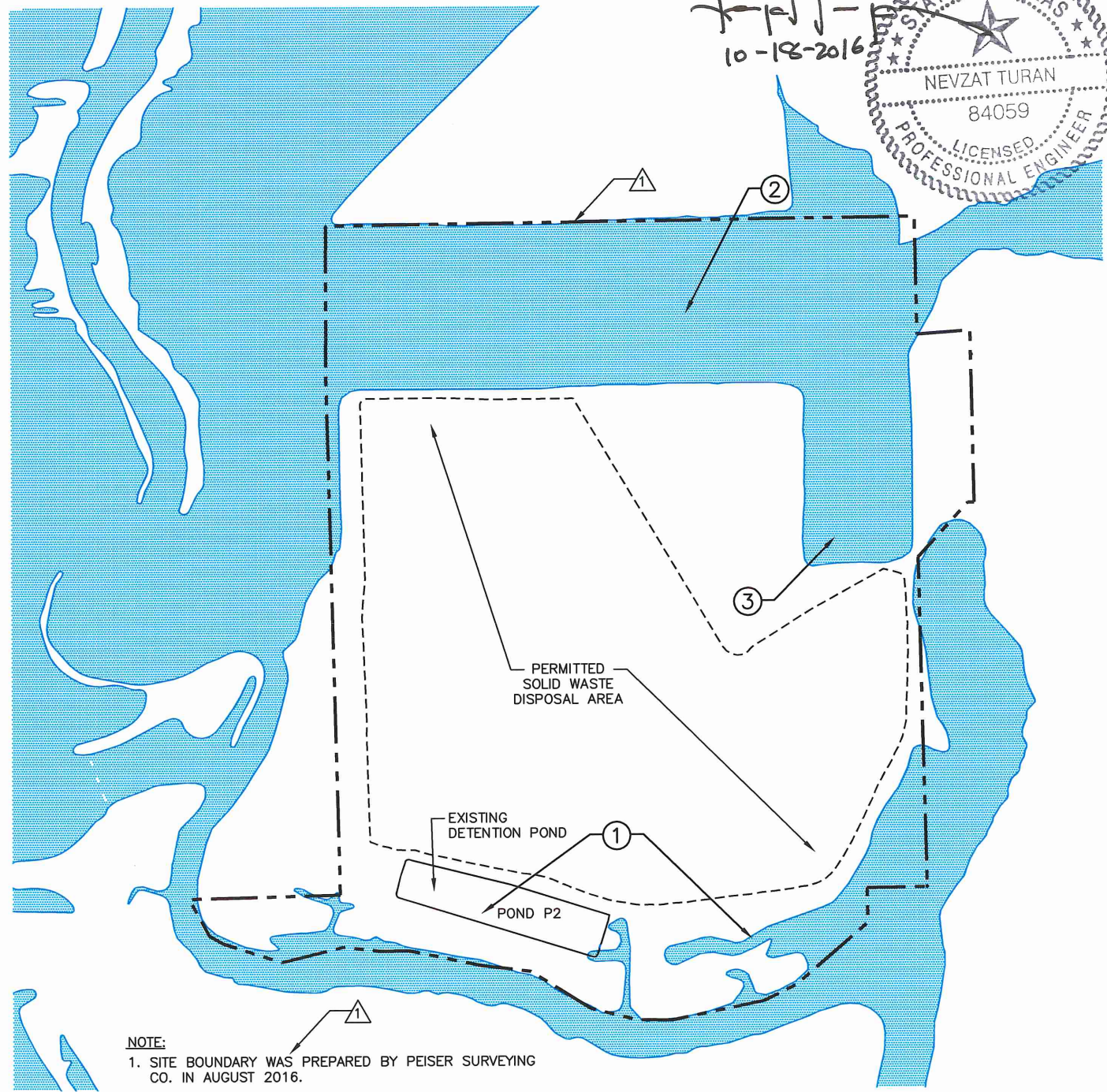
- PERMIT BOUNDARY (SEE NOTE 2)
- LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 FINAL COVER CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- ◆ MW-8 EXISTING GROUNDWATER MONITORING WELL
- ◆ MW-30 PROPOSED GROUNDWATER MONITORING WELL
- ◆ GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- ◆ GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- ◆ MW-12 OBSERVATION WELL
- ◆ OW-1 PROPOSED WOODBINE MONITOR WELL
- EXISTING FENCE
- LANDSCAPE BENCH
- EXISTING ALTERNATIVE SOIL FINAL COVER AREA
- 100-YEAR FLOODPLAIN (SEE NOTE 6)
- PERIMETER ACCESS ROAD
- EXISTING SLURRY WALL
- △ RED OBSTRUCTION LIGHTS REQUIRED BY FAA (SEE NOTE 6)
- △ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTES:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 3. REFER TO APPENDIX III F FOR POST DEVELOPMENT DRAINAGE INFORMATION.
 4. FINAL COVER DETAILS ARE PROVIDED IN APPENDIX III A-A-LINER, OVERLINER AND FINAL COVER SYSTEM DETAILS
 5. MAXIMUM FINAL COVER ELEVATION: 675 FT-MSL.
MAXIMUM WASTE ELEVATION: 671.5 FT-MSL.
 6. AS DISCUSSED IN SECTION 8.2, ONCE THE TOP DECK REACHES 200 FEET ABOVE GRADE, LIGHTS WILL BE INSTALLED PER ADVISORY CIRCULAR AC 70/7460-1K - OBSTRUCTION MARKING AND LIGHTING. THE LIGHTS WILL BE EVENLY SPACED TO MARK THE TOP DECK. THE CONFIGURATION SHOWN ON THIS DRAWING REPRESENTS THE FINAL SITE CONDITION ONLY. A SIMILAR PATTERN WILL BE USED DURING THE DEVELOPMENT OF THE SITE, ONCE THE TOP DECK REACHES 200 FEET ABOVE GRADE.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR	MAJOR PERMIT AMENDMENT FAA OBSTRUCTION LIGHTS TYPICAL LAYOUT CAMELOT LANDFILL DENTON COUNTY, TEXAS	
	CITY OF FARMERS BRANCH	<i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727	
DATE: 11/2012 FILE: 1339-351-11 CAD: 8.2-FAA OBSTRUCTION LIGHTS.DWG	DRAWN BY: VRS DESIGN BY: MDM REVIEWED BY: JPY	CHICAGO, IL NAPERVILLE, IL COLUMBUS, OH DENVER, CO	
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		FIGURE 1/II-8.2	

EXISTING PERMITTED CONDITION

PROPOSED CONDITION



NOTE:
 1. SITE BOUNDARY WAS PREPARED BY PEISER SURVEYING CO. IN AUGUST 2016.
 2. FLOODPLAIN REPRODUCED FROM FIRM NO. 48121C0565 G, EFFECTIVE DATE APRIL 18, 2011.

LIST OF REVISIONS:
 1. UPDATED PERMIT BOUNDARY INFORMATION.

LEGEND
 - - - - - PERMIT BOUNDARY
 - - - - - PROPOSED LIMIT OF WASTE
 - - - - - AUTHORIZED LIMIT OF WASTE
 [Blue Shaded Area] 100-YEAR FLOODPLAIN
 [Triangle with 'A'] INDICATES REVISION (SEE LIST OF REVISIONS)

CHANGES FROM EXISTING PERMITTED TO THE PROPOSED CONDITION

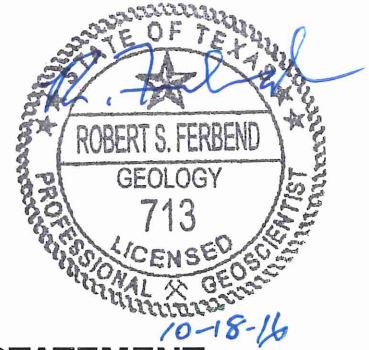
- ① ADDITION OF DETENTION POND, POND P3. THE SOUTHWEST POND (POND P2) WAS CONSTRUCTED AS AUTHORIZED BY THE CLOMR APPLICATION (CASE NO. 02-06-1950R APPROVED BY FEMA ON NOVEMBER 18, 2002 FOR THE EXISTING PERMITTED SITE). THE SOUTHEAST POND (POND P3) WILL FUNCTION SIMILAR TO THE PREVIOUSLY-PERMITTED SOUTHWEST POND.
- ② NORTHERN AREA DEVELOPMENT. TO ALLOW FOR THE DEVELOPMENT OF FACILITIES TO SUPPORT THE OPERATION OF THE LANDFILL, THIS PROJECT INCLUDES THE REMOVAL OF TWO AREAS FROM THE FLOODPLAIN IN THE NORTHERN PORTION OF THE SITE. THESE TWO AREAS WILL BE USED FOR (1) OFFICES AND MAINTENANCE FACILITIES, INCLUDING ACCESS ROADS AND (2) A 16-ACRE AREA THAT WILL BE USED TO SUPPORT OPERATIONS, SUCH AS EQUIPMENT STORAGE, A CITIZEN CONVENIENCE CENTER, ENTRANCE FACILITIES, ACCESS ROADS, AND/OR A WOOD WASTE PROCESSING AREA.
- ③ REMOVAL OF NORTHEAST AREA FROM FLOODPLAIN TO ALLOW FOR THE CONTINUED DEVELOPMENT OF THE LANDFILL. THIS AREA IS PROPOSED TO BE REMOVED FROM THE INEFFECTIVE FLOW AREA OF THE 100-YEAR FLOODPLAIN.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT FLOODPLAIN CONDITION COMPARISON CAMELOT LANDFILL DENTON COUNTY, TEXAS							
DATE: 03/2012 FILE: 1339-351-11 CAD: 1-1-FLOODPLAIN COMP.DWG		DRAWN BY: VRS DESIGN BY: CRM REVIEWED BY: JPY		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS
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Copyright © 2012 Weaver Boos Consultants, LLC - Southwest. All rights reserved.				Weaver Boos Consultants TBPE REGISTRATION NO. F-3727 FIGURE 1/II-11.1							

O:\1339\351\EXPANSION 2009\FARTS 1-II\11.1-FLOODPLAIN COMPARISON.dwg, 10/17/2016 3:14:22 PM, r.morris, 1:2



10-18-2016



10 GROUNDWATER AND SURFACE WATER STATEMENT

10.1 Groundwater Statement

Although not classified as a regional aquifer, groundwater that occurs in the Alluvial Strata is the uppermost aquifer for groundwater monitoring purposes. The facility's uppermost aquifer groundwater flows west and south toward the Elm Fork Trinity River. The uppermost aquifer is discussed in Sections 2 and 3 of Part III, Appendix III G.

This section addresses §330.61(k).

Based on information obtained from area water well logs, expansion borehole WB-4, and presented in Figure III G-C-12 in Appendix III G, there is a minimum of 40 feet of low permeability Shale Strata separating the proposed expansion area sump EDE of 387 ft-msl elevation from the top of the underlying Woodbine Strata. Table 3-4 in Appendix III G of Part III indicates the low permeability Shale Strata have an arithmetic mean vertical hydraulic conductivity of 2.5×10^{-8} cm/sec. The elevations of the top of the Woodbine Strata are presented in Figure III G-C-12 of Part III. According to Harden, et al. (2004), Woodbine groundwater in this area flows to the east-southeast. Due to the very low Shale Strata hydraulic conductivity, the two water-bearing zones are not hydraulically connected.

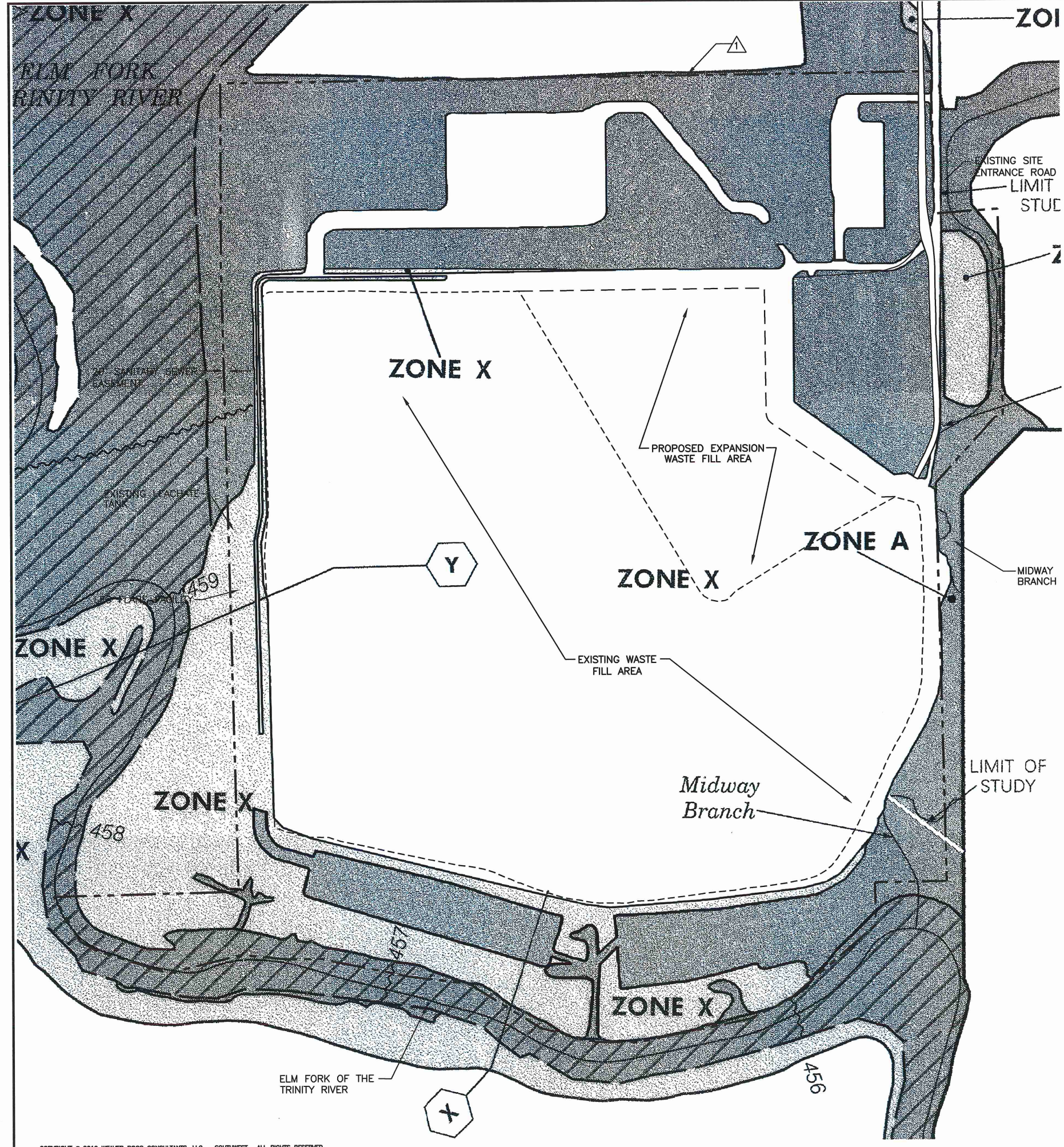
10.2 Surface Water Statement

The ~~469.62~~ 459.76-acre Camelot Landfill permit boundary is located approximately two miles south of Lake Lewisville. The Elm Fork Trinity River forms the southern boundary of the site. Midway Branch, a tributary of the Elm Fork, flows along the east side of the permit boundary.

Lake Lewisville is one of the largest man made surface water impoundments in Texas with a 46.24 square mile (25,592 acres) surface area at the crest elevation of the Lake Lewisville Dam. The Lake Lewisville watershed encompasses approximately 1,660 square miles. The total drainage area of the Elm Fork (which includes Prairie Creek and Stewart Creek) downstream of the Lake Lewisville Dam and upstream of the permit boundary is approximately 1,674 square miles.

The local drainage basin, which includes the permit boundary and offsite areas discharging onto or directly receiving flow from the permit boundary, is 2.82 square miles (0.17 percent of the Elm Fork's drainage basin upstream of the site). The majority of the area within the permit boundary discharges south or west into the Elm Fork. A smaller

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LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

- ZONE X** Areas determined to be outside 500-year floodplain.
- ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Identified 1983
- Identified 1990
- Otherwise Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.

— Floodplain Boundary
 - - - Floodway Boundary
 - - - Zone D Boundary

Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

~ 513 ~ Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.

⬠ D ⬠ Cross Section Line

(EL 987) Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.

RM7 X Elevation Reference Mark

• M2 River Mile

97°07'30", 32°22'30" Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.

0 300 600
SCALE IN FEET

LEGEND

- - - PERMIT BOUNDARY
- · - · - PROPOSED LIMIT OF WASTE
- · - · - AUTHORIZED LIMIT OF WASTE
- ⚠ INDICATES REVISION (SEE LIST OF REVISIONS)

STATE OF TEXAS
 NEVZAT TURAN
 84059
 LICENSED PROFESSIONAL ENGINEER

10-18-2016

NOTE:

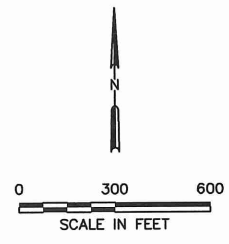
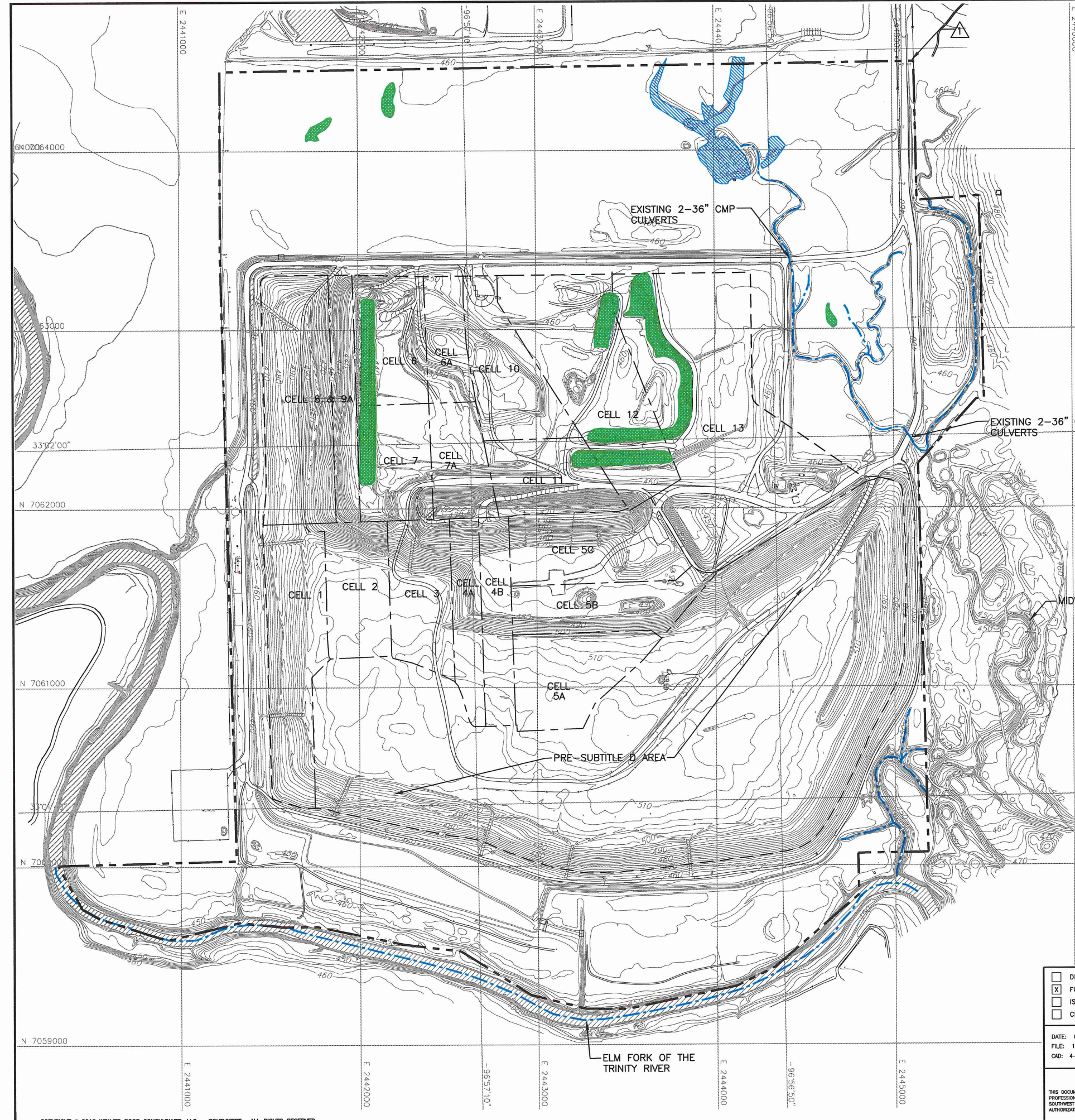
- PORTIONS OF FLOODPLAIN AND FLOODWAY BOUNDARIES WERE REPRODUCED FROM FEMA FIRM NUMBER 48121C0565 G, EFFECTIVE DATE APRIL 18, 2011. THE REVISED FLOODPLAIN LIMITS ARE REPRODUCED FROM THE FEMA APPROVED CLOMR REQUEST DATED JUNE 2011 (PREPARED BY WEAVER BOOS CONSULTANTS).
- PERMIT BOUNDARY WAS PREPARED BY PEISER SURVEYING CO. IN AUGUST 2016.

LIST OF REVISIONS:

- UPDATED PERMIT BOUNDARY INFORMATION.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT REVISED FLOOD INSURANCE RATE MAP CAMELOT LANDFILL DENTON COUNTY, TEXAS							
DATE: 03/2012 FILE: 1339-351-11 CAD: 11.2-REVISED FIRM.DWG		DRAWN BY: SRF DESIGN BY: CRM REVIEWED BY: JPY		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS
NO.	DATE	DESCRIPTION									
10	10/2016	SEE LIST OF REVISIONS									
REUSE OF DOCUMENTS <small>THIS DOCUMENT, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WEAVER BOOS CONSULTANTS, LLC - SOUTHWEST AND IS NOT TO BE USED IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF WEAVER BOOS CONSULTANTS, LLC - SOUTHWEST.</small>		REWEAVER BOOS CONSULTANTS <small>CHICAGO, IL MAPERVILLE, IL COLUMBUS, OH DENVER, CO</small>		SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO Weaver Boos Consultants TBPE REGISTRATION NO. F-3727 FIGURE I/II-11.2							

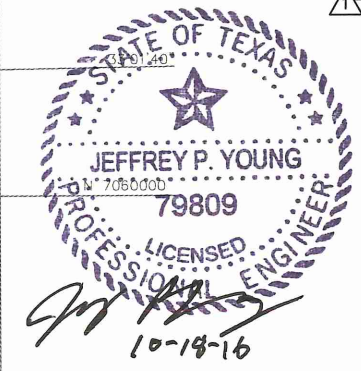
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- LEGEND**
- PERMIT BOUNDARY
 - LIMIT OF WASTE
 - N 7063000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR
 - USACE SECTION 404 JURISDICTIONAL WATERS OF THE U.S. (SEE NOTE 3)
 - USACE SECTION 404 JURISDICTIONAL WETLANDS
 - SECTOR BOUNDARY
 - NON-JURISDICTIONAL WETLANDS
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTE:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 1988.
 - PROPOSED PERMIT BOUNDARY WAS PREPARED BY PEISER SUREYING CO. IN AUGUST 2016.
 - SECTION 404 JURISDICTIONAL WATERS OF THE U.S. AND WETLANDS REPRODUCED FROM PRELIMINARY SECTION 404 JURISDICTIONAL DETERMINATION REPORT PREPARED BY GOSHAWK ENVIRONMENTAL CONSULTING, INC (SEPTEMBER 17, 2010).

- LIST OF REVISIONS:**
- UPDATED PERMIT BOUNDARY INFORMATION.



<input type="checkbox"/> DRAFT	PREPARED FOR
<input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY	CITY OF FARMERS BRANCH
<input type="checkbox"/> ISSUED FOR CONSTRUCTION	
<input type="checkbox"/> CLIENT APPROVAL BY:	
DATE: 03/2012	DRAWN BY: JDW
FILE: 1339-351-11	DESIGN BY: MDM
CAD: 4-SITE PLANDWG	REVIEWED BY: JPY
REUSE OF DOCUMENTS	
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REVISIONS		
NO.	DATE	DESCRIPTION
10	10/2016	SEE LIST OF REVISIONS

**MAJOR PERMIT AMENDMENT
WETLAND LOCATION MAP**

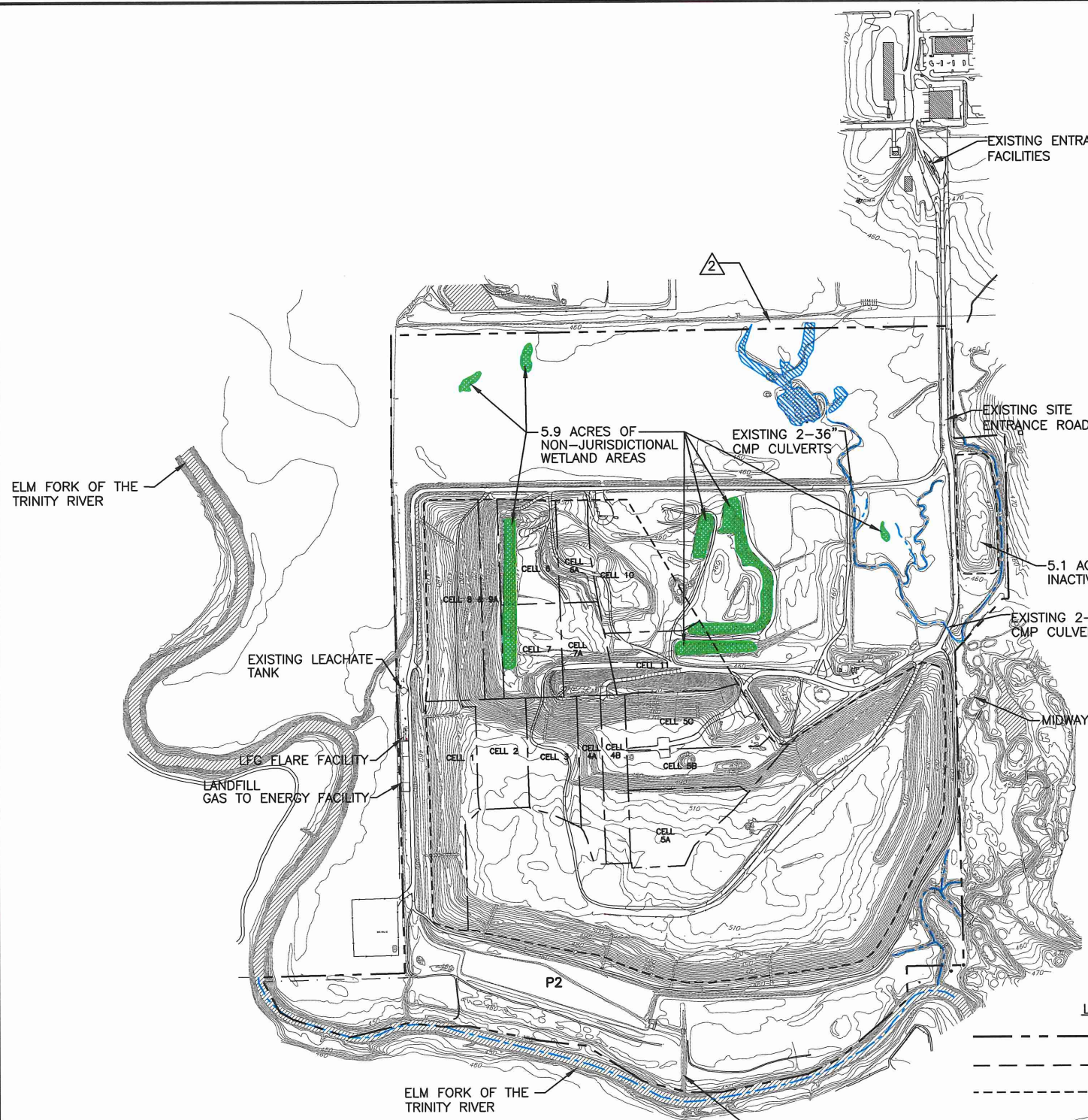
CAMELOT LANDFILL
DENTON COUNTY, TEXAS

Weaver Boos Consultants
TBPE REGISTRATION NO. F-3727

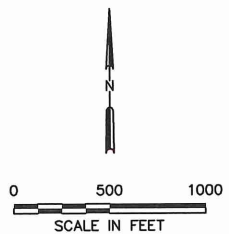
CHICAGO, IL	FORT WORTH, TX	GRIFFITH, IN
MARVELL, IL	SOUTH BEND, IN	SOUTH BEND, IN
COLUMBUS, OH	(817) 735-9770	SPRINGFIELD, IL
DENVER, CO		ST. LOUIS, MO

FIGURE 1/II-11.3

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ELM FORK OF THE TRINITY RIVER



- LEGEND**
- PERMIT BOUNDARY
 - PROPOSED LIMIT OF WASTE
 - AUTHORIZED LIMIT OF WASTE
 - 500 EXISTING CONTOUR
 - 600 FINAL COVER CONTOUR
 - 600 REGRADED BUFFER ZONE (GREENFIELD/OPEN SPACE) AREA
 - DRAINAGE LETDOWN
 - DRAINAGE SWALE
 - P1 DETENTION POND DESIGNATION
 - USACE SECTION 404 JURISDICTIONAL WATERS OF THE U.S. (SEE NOTE 3)
 - USACE SECTION 404 JURISDICTIONAL WETLANDS
 - NON-JURISDICTIONAL WETLAND
 - NON-JURISDICTIONAL WETLAND MITIGATION AREAS
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTE:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 1988.
 - PERMIT BOUNDARY WAS PREPARED BY PEISER SUREYING CO. IN AUGUST 2016.
 - SECTION 404 JURISDICTIONAL WATERS OF THE U.S. AND WETLANDS REPRODUCED FROM PRELIMINARY SECTION 404 JURISDICTIONAL DETERMINATION REPORT PREPARED BY GOSHAWK ENVIRONMENTAL CONSULTING, INC (SEPTEMBER 17, 2010).



- LIST OF REVISIONS:**
- REVISED FINAL COVER CONTOURS.
 - REVISED PERMIT BOUNDARY INFORMATION.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR		MAJOR PERMIT AMENDMENT EXISTING AND PROPOSED LANDFILL COMPLETION PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727						
	CITY OF FARMERS BRANCH								
DATE: 03/2012 FILE: 1339-351-11 CAD: 5-COMPARISON.DWG	DRAWN BY: SRF DESIGN BY: CRM REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS
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10	10/2016	SEE LIST OF REVISIONS							
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			SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO						
			FIGURE 1/II-11.4						

13 LEGAL DESCRIPTION

A legal description of the 469.62 459.76-acre permit boundary is included on the following pages. The area is shown on the attached drawing and legal description.

The area within the permit boundary is owned by the City of Farmers Branch and Camelot Landfill TX, LP. Current ownership records for the property may be found in the Denton County Real Property records.

*This section
addresses
§330.59(d)(1).*

17 REQUEST FOR VOLUNTARY REVOCATION OF TCEQ PERMIT NO. MSW-946

As shown on Figure I/II-3.1, the permit boundary will be expanded to the north by adding ~~118.5~~ 108.99 acres to the existing 350.77-acre permit boundary. The area within the proposed permit boundary expansion includes an inactive municipal solid waste permit area (TCEQ Permit No. MSW-946). The current permittee of TCEQ Permit No. MSW-946 is the City of Farmers Branch. This permit was originally issued by the TCEQ on March 15, 1979 to the Town of Highland Park.

The 102.58-acre property and the permit were transferred to the City of Farmers Branch in 2000. A copy of the permit transfer is included in Appendix I/III. The permitted facility has never been developed; however, the record for this permit does indicate some waste filling occurred after the site was acquired by Highland Park in 1967 (refer to Section 3.1 for additional information). As discussed in Section 2.1, the historic waste fill within this tract will be relocated to the 236.8-acre waste disposal area within 6 months of the issuance of Permit No. MSW-1312B. Refer to Part III – Site Development Plan Narrative (Section 4.6) for more information.

The City of Farmers Branch requests that Permit No. MSW-946 be revoked upon approval of this permit amendment application, as the majority of the 102.58-acre permit boundary of TCEQ Permit No. MSW-946 will be incorporated into the ~~469.62~~ 459.76-acre permit boundary of TCEQ Permit No. 1312B. A request for voluntary revocation of TCEQ Permit No. MSW-946 is included on page I/II-17-2.

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**APPENDIX I/IIA
FACILITY LAYOUT MAPS**

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised June 2014

Revised October 2016

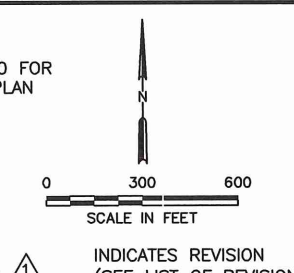
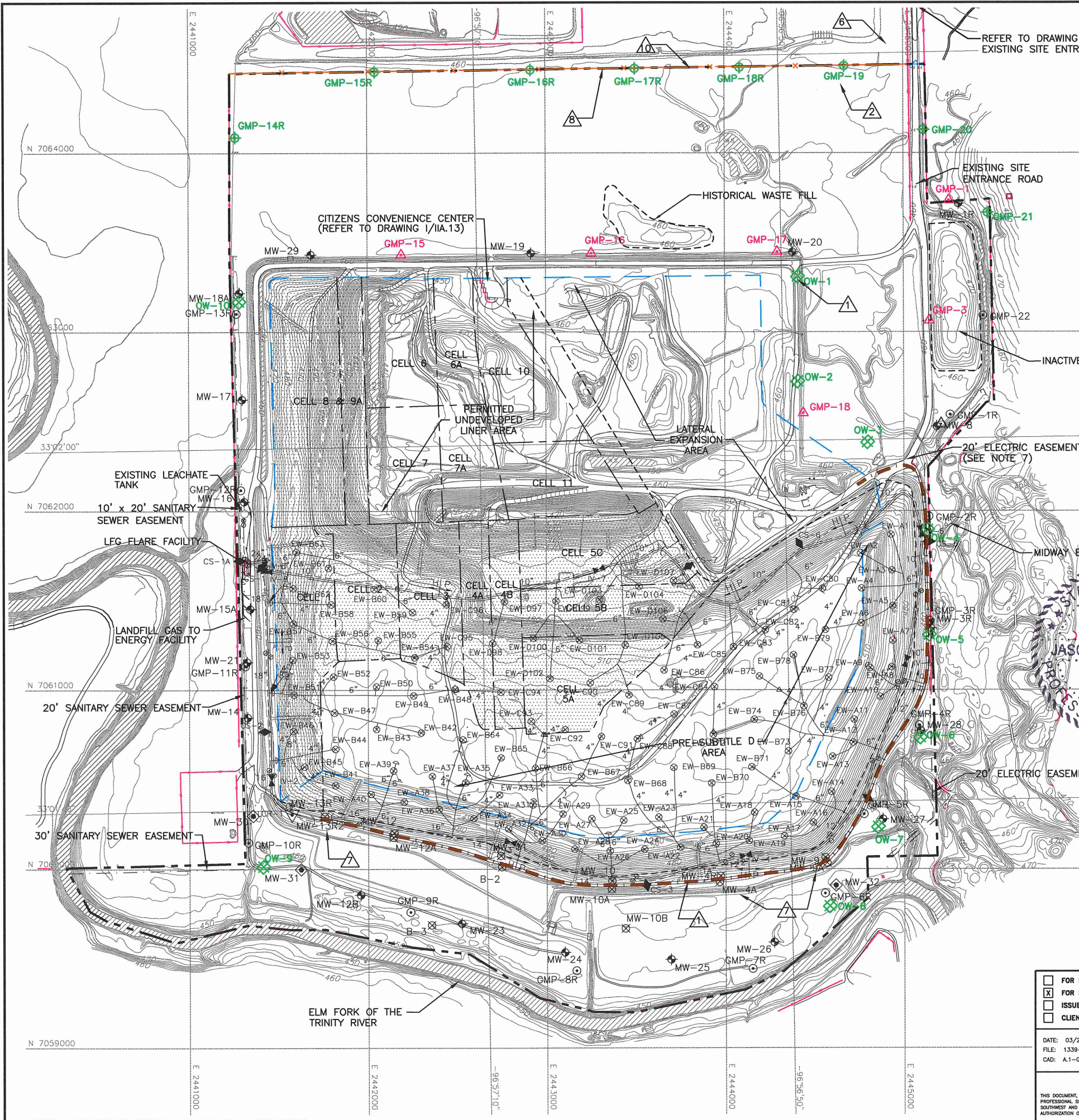


Prepared by

Weaver Boos Consultants, LLC-Southwest
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
817-735-9770

WBC Project No. 1339-351-11-02-6A

This document is intended for permitting purposes only.



LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- - - AUTHORIZED LIMIT OF WASTE
- - - PROPOSED LIMIT OF WASTE
- NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- EXISTING CONTOUR
- EASEMENT
- ⊕ MW-8 EXISTING GROUNDWATER MONITORING WELL
- ⊕ MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
- ⊕ MW-30 PROPOSED GROUNDWATER MONITORING WELL
- ⊕ GMP-8 EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
- ⊕ GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- ⊕ GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- ⊕ MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 8 AND 9)
- ⊕ OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 9)
- ⊕ EW-A15 EXISTING LFG EXTRACTION WELL
- EXISTING SUBTITLE D COMPOSITE LINED AREA
- EXISTING FENCE
- PROPOSED FENCE
- ⊕ SITE BENCHMARK (SEE NOTE 3)
- EXISTING SLURRY WALL (SEE NOTE 10)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED WOODBINE MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 8.
- REVISED NOTE 10.
- REMOVED EASEMENTS.
- UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
- REVISED PROPOSED FENCE LOCATION.
- REVISED NOTE 6.
- REVISED PERMIT BOUNDARY INFORMATION.

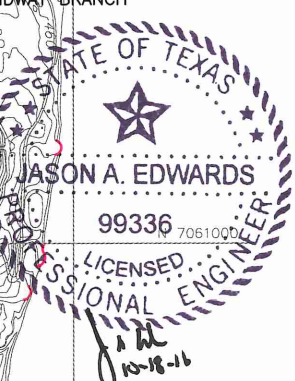
NOTE:

- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016. THE PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW-1312A IS SHOWN ON FIGURE 1/II-3.1.
- SITE BENCHMARK INFORMATION IS LISTED BELOW.

SITE BENCHMARK INFORMATION

MONUMENT	NORTHING	EASTING	ELEVATION (FT-MSL)
1	7062483.83	2445210.12	455.46

- BENCHMARK WAS ESTABLISHED ON AUGUST 13, 2004. ELEVATION IS BASED ON NAVD 88.
- SEQUENCE OF SITE DEVELOPMENT IS PROVIDED ON DRAWINGS 1/IIA.4 THROUGH 1/IIA.7. UNAUTHORIZED ACCESS TO THE EXISTING FILL AREA AND ENTRANCE FACILITIES IS CONTROLLED WITH PERIMETER FENCING (MINIMUM 4-FOOT HIGH, 3-STRAND BARBED WIRE FENCE), GATED ENTRANCE, AND NATURAL BARRIERS (DENSE FOLIAGE, VEGETATION, AND ELM FORK OF THE TRINITY RIVER). REFER TO DRAWING 1/IIA.12 FOR MORE INFORMATION.
- A VARYING 20-FOOT AND 30-FOOT SANITARY SEWER EASEMENT IS LOCATED ALONG THE WESTERN SIDE OF THE PERMIT BOUNDARY. A 10-FOOT BY 20-FOOT SANITARY SEWER EASEMENT IS LOCATED ON THE WESTERN SIDE OF THE PERMIT BOUNDARY. A 20-FOOT ELECTRICAL EASEMENT IS LOCATED ALONG THE EASTERN SIDE OF THE PERMIT BOUNDARY. A 40-FOOT RIGHT-OF-WAY DEDICATION, A 35-FOOT RIGHT-OF-WAY DEDICATION AND A 40-FOOT SANITARY SEWER EASEMENT CROSS THE NORTHERN PORTION OF THE PERMIT BOUNDARY. A 20-FOOT UTILITY EASEMENT IS LOCATED IN THE NORTHEAST PORTION OF THE SITE NEAR THE EXISTING ENTRANCE FACILITIES. REFER TO PARTS 1/II, FIGURE 1/II-B.1 FOR THE LOCATION OF THE EXISTING EASEMENT.
- THIS 20-FOOT ELECTRICAL EASEMENT PROVIDES ELECTRICITY TO THE TEMPORARY MAINTENANCE AREA. THE EASEMENT WILL BE ABANDONED PRIOR TO DEVELOPMENT IN THIS AREA.
- LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
- OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.
- THE SLURRY WALL WAS INSTALLED IN 2015 UNDER TCEQ PERMIT NO. 1312A. REFER TO APPENDIX IIIA FOR SLURRY WALL INFORMATION.



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DATE: 03/2012 FILE: 1339-351-11 CAD: A1-GEN SITE PLAN.DWG	DRAWN BY: SRF DESIGN BY: JAE REVIEWED BY: JPY

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PREPARED FOR		CITY OF FARMERS BRANCH MAJOR PERMIT AMENDMENT GENERAL SITE PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727
REVISIONS		
NO.	DATE	DESCRIPTION
1	12/2012	1st TCEQ COMMENT RESPONSE
2	06/2014	SUPPLEMENTAL SUBMITTAL
10	10/2016	SEE LIST OF REVISIONS

CHICAGO, IL
NAPERVILLE, IL
COLUMBUS, OH
DENVER, CO

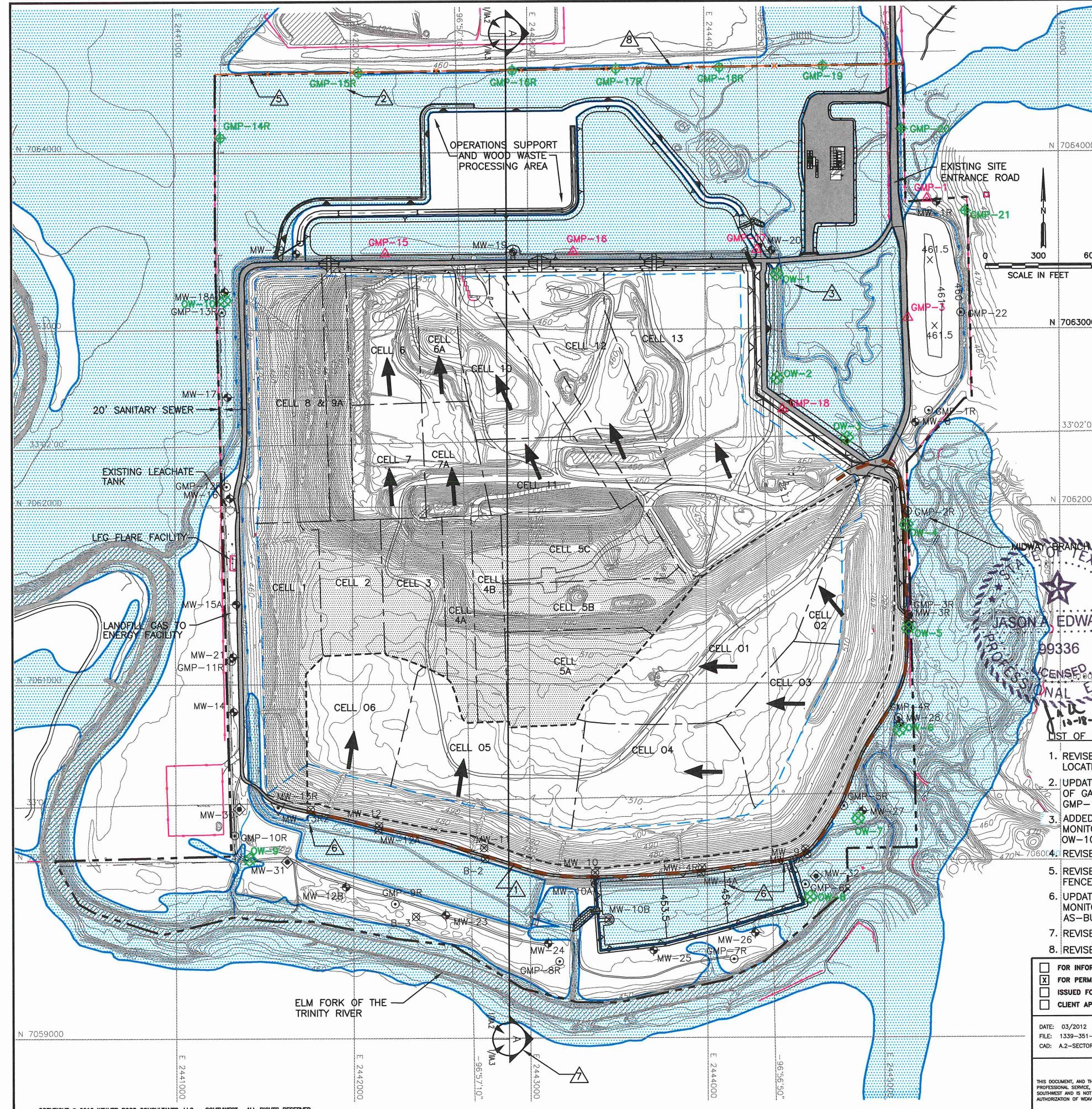
FORT WORTH, TX
(817) 735-9770

GRIFFITH, IN
SOUTH BEND, IN
SPRINGFIELD, IL
ST. LOUIS, MO

DRAWING 1/IIA.1

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CELL SUMMARY			
CELL	MAX LENGTH (FT)	MAX WIDTH (FT)	AREA (ACRES)
SUBTITLE D AREA			
1	761	346	10.34
2	759	473	6.25
3	897	351	6.67
4A	1166	164	4.12
4B	1168	170	4.54
5A	539	833	7.41
5B	320	1092	6.55
5C	466	1018	8.56
8	1384	408	12.18
9A	1381	134	4.24
6	730	408	6.69
6A	708	265	3.75
7	649	412	6.11
7A	649	369	4.72
10	922	557	7.45
11	429	730	6.30
12	1188	645	14.80
13	1674	1086	27.69
PRE-SUBTITLE D AREA*			
01	891	571	19.88
02	725	532	2.05
03	858	880	6.55
04	647	995	11.85
05	744	1049	12.78
06	767	641	8.62

LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- - - AUTHORIZED PRE-SUBTITLE D LIMIT OF WASTE
- - - AUTHORIZED SUBTITLE D LIMIT OF WASTE
- NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- CELL BOUNDARY
- MW-8 EXISTING GROUNDWATER MONITORING WELL
- MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
- MW-30 PROPOSED GROUNDWATER MONITORING WELL
- GMP-8 EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
- GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 9)
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 9 AND 10)
- EXISTING SUBTITLE D COMPOSITE LINED AREA
- EXISTING FENCE
- PROPOSED FENCE
- FILL DIRECTION (SEE NOTE 3)
- 100-YEAR FLOODPLAIN (SEE NOTE 8)
- PERIMETER ACCESS ROAD
- 3H:1V SLOPE (TYPICAL)
- EXISTING SLURRY WALL
- INDICATES REVISION (SEE LIST OF REVISIONS)

APPROXIMATELY 26.70 ACRES OF PRE-SUBTITLE D AREA WILL NOT BE LINED WITH OVERLINER.

NOTES:

- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
- CELL DESIGNATIONS INDICATE GENERAL PROGRESSION OF LANDFILL OPERATIONS. FILL DIRECTION ARROWS INDICATE GENERAL DIRECTION OF FILL WITHIN A CELL.
- TYPICAL CROSS SECTION PROVIDED IN DRAWING I/IIA.3. ADDITIONAL SECTION INFORMATION PROVIDED IN APPENDIX IIIA-B - LANDFILL UNIT CROSS SECTIONS.
- SEE DRAWINGS I/IIA.4 THROUGH I/IIA.7 FOR DETAILED SECTOR DEVELOPMENT PLANS.
- WIDTH OF THE BUFFER ZONE BETWEEN THE LIMITS OF WASTE AND THE PERMIT BOUNDARY VARIES; HOWEVER, THE BUFFER ZONE IS A MINIMUM OF 50 FEET FOR EXISTING FILL AREAS AND 125 FEET FOR THE NEWLY PERMITTED AIRSPACE. REFER TO APPENDIX I/IIIC FOR MORE INFORMATION REGARDING BUFFER ZONES.
- EACH CELL, INCLUDING THE PRE-SUBTITLE D FILL AREA, WILL ACCEPT MUNICIPAL SOLID WASTE RESULTING FROM, OR INCIDENTAL TO, MUNICIPAL, COMMUNITY, COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL ACTIVITIES, INCLUDING GARBAGE, PUTRESCIBLE WASTES, RUBBISH, ASHES, BRUSH, STREET CLEANINGS, DEAD ANIMALS, ABANDONED AUTOMOBILES, CONSTRUCTION-DEMOLITION WASTE, YARD WASTE, CLASS 2 NON-HAZARDOUS INDUSTRIAL SOLID WASTE, CLASS 3 NON-HAZARDOUS INDUSTRIAL SOLID WASTE, AND CERTAIN SPECIAL WASTES.
- FLOODPLAIN INFORMATION IS INCLUDED IN APPENDIX IIIIO.
- LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
- OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 9.
- REVISED PROPOSED FENCE LOCATION.
- UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
- REVISED SECTION 4 LOCATION.
- REVISED PERMIT BOUNDARY INFORMATION.

FOR INFORMATION PURPOSES ONLY
 FOR PERMITTING PURPOSES ONLY
 ISSUED FOR CONSTRUCTION
 CLIENT APPROVAL BY:

DATE: 03/2012
 FILE: 1339-351-11
 CAD: A2-SECTOR DEV SEQ.DWG

DRAWN BY: SRF
 DESIGN BY: JAE
 REVIEWED BY: JPY

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PREPARED FOR
CITY OF FARMERS BRANCH

REVISIONS		
NO.	DATE	DESCRIPTION
1	12/2012	1st TCEQ COMMENT RESPONSE
2	06/2014	SUPPLEMENTAL SUBMITTAL
10	10/2016	SEE LIST OF REVISIONS

**MAJOR PERMIT AMENDMENT
SECTOR DEVELOPMENT SEQUENCE**
 CAMELOT LANDFILL
 DENTON COUNTY, TEXAS
Weaver Boos Consultants
 TBPE REGISTRATION NO. F-3727

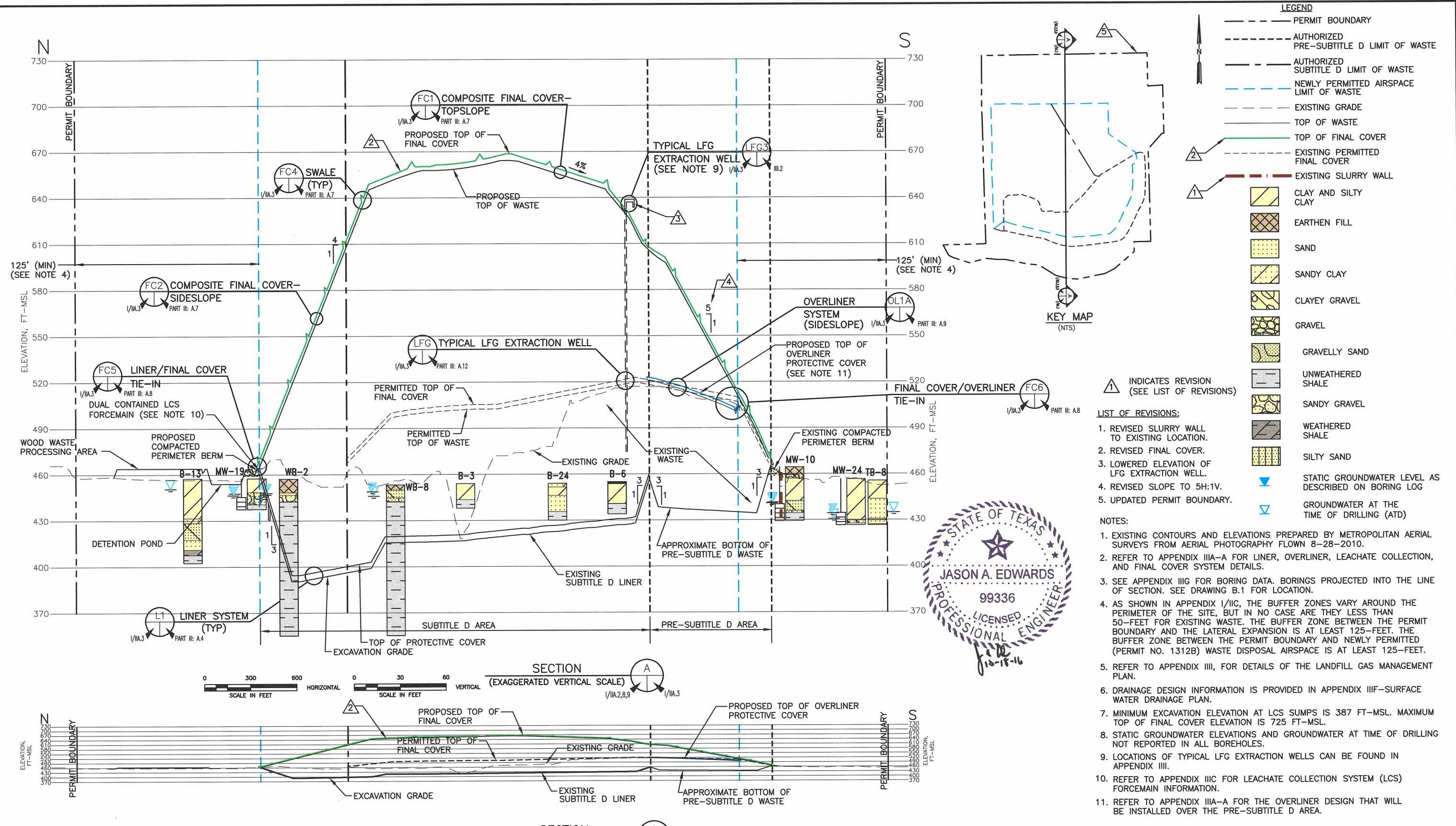
CHICAGO, IL
 NAPERVILLE, IL
 DENVER, CO

FORT WORTH, TX
 (817) 735-9770

GRIFFITH, IN
 SOUTH BEND, IN
 SPRINGFIELD, IL
 ST. LOUIS, MO

DRAWING I/IIA.2

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LEGEND

- PERMIT BOUNDARY
- - - AUTHORIZED PRE-SUBTITLE D LIMIT OF WASTE
- AUTHORIZED SUBTITLE D LIMIT OF WASTE
- NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
- EXISTING GRADE
- TOP OF WASTE
- TOP OF FINAL COVER
- - - EXISTING PERMITTED FINAL COVER
- - - EXISTING SLURRY WALL

	CLAY AND SILTY CLAY
	EARTHEN FILL
	SAND
	SANDY CLAY
	CLAYEY GRAVEL
	GRAVEL
	GRAVELLY SAND
	UNWEATHERED SHALE
	SANDY GRAVEL
	WEATHERED SHALE
	SILTY SAND

▲ INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

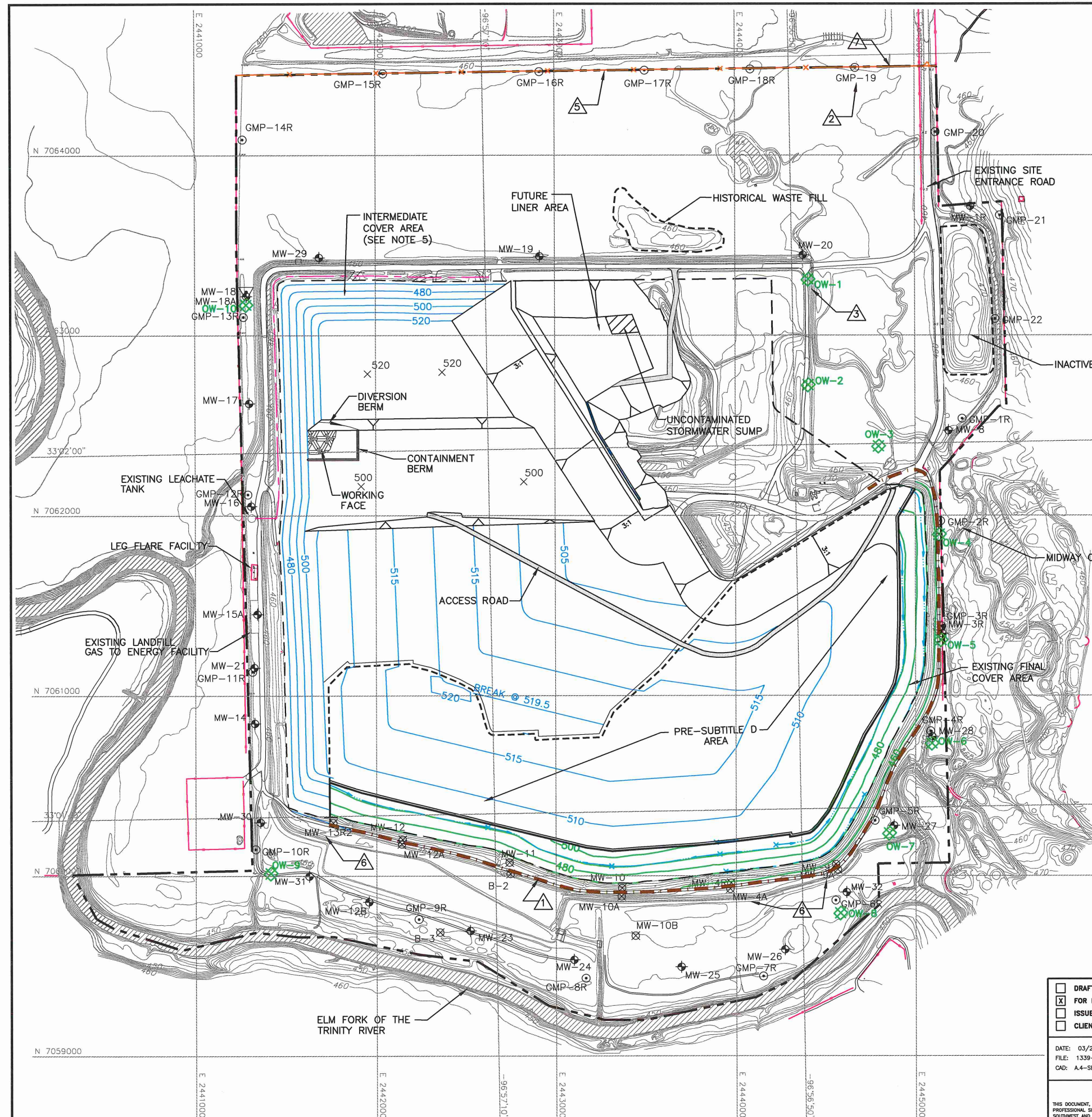
- REVISED SLURRY WALL TO EXISTING LOCATION.
- REVISED FINAL COVER.
- LOWERED ELEVATION OF LFG EXTRACTION WELL.
- REVISED SLOPE TO 5H:1V.
- UPDATED PERMIT BOUNDARY.

NOTES:

- EXISTING CONTOURS AND ELEVATIONS PREPARED BY METROPOLITAN AERIAL SURVEYS FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010.
- REFER TO APPENDIX IIIA-A FOR LINER, OVERLINER, LEACHATE COLLECTION, AND FINAL COVER SYSTEM DETAILS.
- SEE APPENDIX IIIG FOR BORING DATA. BORINGS PROJECTED INTO THE LINE OF SECTION. SEE DRAWING B.1 FOR LOCATION.
- AS SHOWN IN APPENDIX I/II, THE BUFFER ZONES VARY AROUND THE PERIMETER OF THE SITE, BUT IN NO CASE ARE THEY LESS THAN 50- FEET FOR EXISTING WASTE. THE BUFFER ZONE BETWEEN THE PERMIT BOUNDARY AND THE LATERAL EXPANSION IS AT LEAST 125- FEET. THE BUFFER ZONE BETWEEN THE PERMIT BOUNDARY AND NEWLY PERMITTED (PERMIT NO. 1312B) WASTE DISPOSAL AIRSPACE IS AT LEAST 125- FEET.
- REFER TO APPENDIX III, FOR DETAILS OF THE LANDFILL GAS MANAGEMENT PLAN.
- DRAINAGE DESIGN INFORMATION IS PROVIDED IN APPENDIX IIIF-SURFACE WATER DRAINAGE PLAN.
- MINIMUM EXCAVATION ELEVATION AT LCS SUMPS IS 387 FT-MSL. MAXIMUM TOP OF FINAL COVER ELEVATION IS 725 FT-MSL.
- STATIC GROUNDWATER ELEVATIONS AND GROUNDWATER AT TIME OF DRILLING NOT REPORTED IN ALL BOREHOLES.
- LOCATIONS OF TYPICAL LFG EXTRACTION WELLS CAN BE FOUND IN APPENDIX III.
- REFER TO APPENDIX IIIC FOR LEACHATE COLLECTION SYSTEM (LCS) FORCEMAIN INFORMATION.
- REFER TO APPENDIX IIIA-A FOR THE OVERLINER DESIGN THAT WILL BE INSTALLED OVER THE PRE-SUBTITLE D AREA.



<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT TYPICAL SECTION A CAMELOT LANDFILL DENTON COUNTY, TEXAS							
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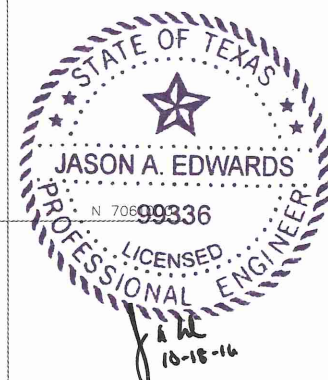
LEGEND

- PERMIT BOUNDARY
- - - LIMITS OF WASTE
- - - AUTHORIZED LIMIT OF WASTE
- STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 400 PROPOSED FINAL COVER CONTOUR
- 560 PROPOSED INTERMEDIATE COVER CONTOUR (SEE NOTE 5)
- LEACHATE FORCEMAIN
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING SLURRY WALL
- PROPOSED WOODBINE MONITOR WELL (SEE NOTE 14)
- MW-8 EXISTING GROUNDWATER MONITORING WELL
- △ GMP-13 EXISTING LANDFILL GAS MONITORING PROBE
- ⊗ MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 13 AND 14)
- △ INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 13.
- REVISED PROPOSED FENCE LOCATION.
- UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
- UPDATED PERMIT BOUNDARY INFORMATION.

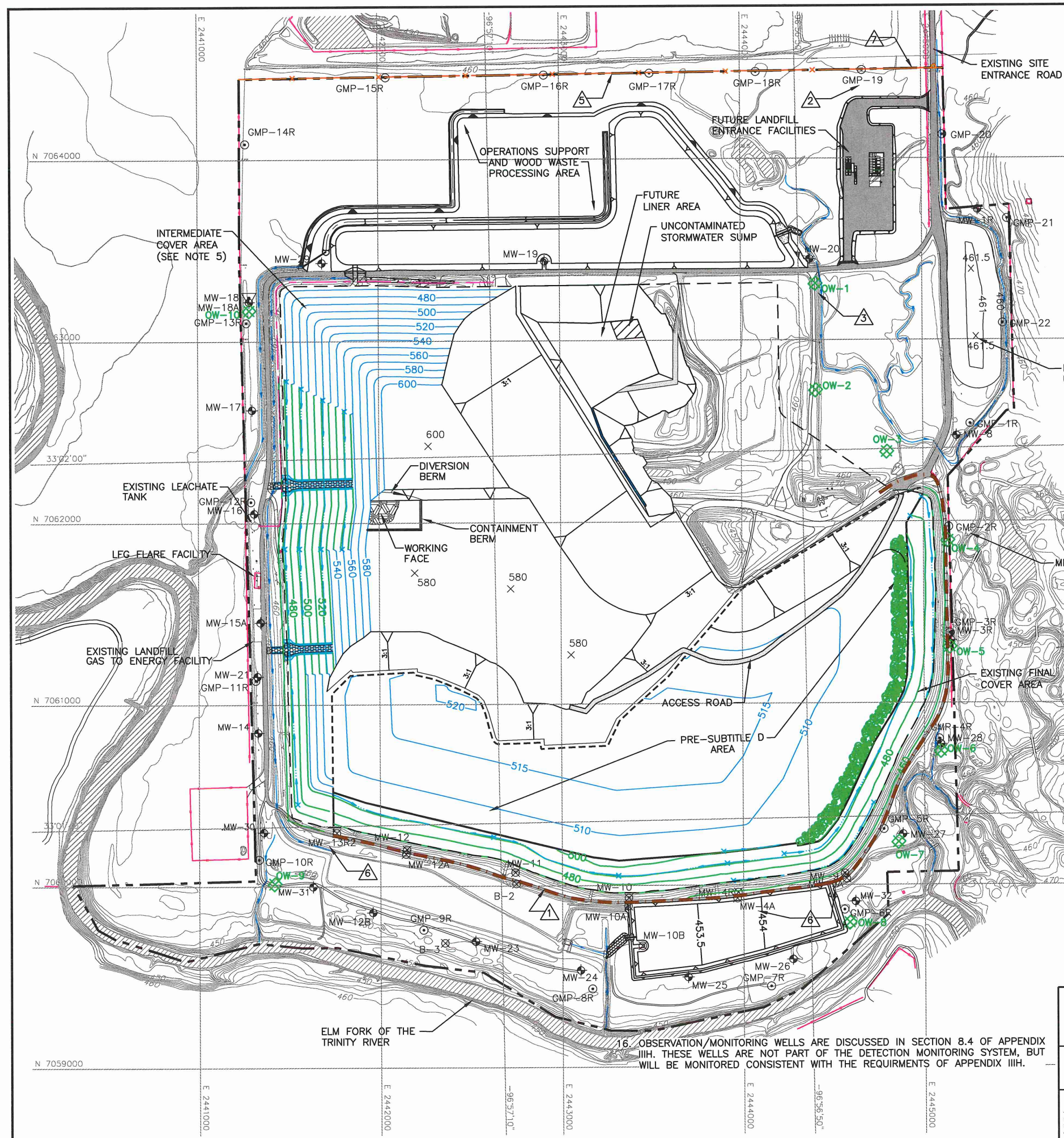
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 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESEY SURVEYING CO. DATED AUGUST 2016.
 - REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN FOR CONTAMINATED WATER RUN-ON/RUN-OFF BERM DESIGN INFORMATION.
 - THE SECTOR DEVELOPMENT SHOWN ON THIS DRAWING SHOWS THE GENERAL SEQUENCE OF FILLING OPERATIONS. THE LOCATION OF THE ALL-WEATHER ACCESS ROAD FROM THE LANDFILL HAUL ROAD TO THE ACTIVE AREA WILL BE DETERMINED DURING SITE OPERATIONS.
 - INTERMEDIATE COVER CONSISTS OF A 12-INCH THICK SOIL LAYER. REFER TO PART IV - SITE OPERATING PLAN FOR ADDITIONAL SOIL COVER REQUIREMENTS.
 - LANDFILL HAUL ROAD WILL BE SURFACED WITH CRUSHED STONE TO PROVIDE ALL-WEATHER ACCESS.
 - REFER TO APPENDIX IIIF-SURFACE WATER DRAINAGE PLAN FOR THE EROSION AND SEDIMENTATION CONTROL PLAN. DRAINAGE STRUCTURES ARE SHOWN AS THE SITE DEVELOPS. ADDITIONALLY BMPs WILL BE USED TO CONTROL EROSION AS NEEDED.
 - MAXIMUM SLOPE ON THE TEMPORARY ACCESS ROAD IS 10%.
 - REFER TO APPENDIX IIIB FOR LANDFILL GAS MANAGEMENT PLAN.
 - UNCONTAMINATED STORMWATER THAT HAS NOT COME INTO CONTACT WITH WASTE WILL BE COLLECTED IN SUMPS AND PERIODICALLY REMOVED FROM EXCAVATED AREAS BY PUMPING TO PERIMETER DRAINAGE CHANNELS OR USED IN SITE OPERATIONS (E.G., DUST CONTROL, COMPACTING, ETC.).
 - TEMPORARY CHUTES AND SWALES WILL BE PLACED OVER THE INTERMEDIATE COVER AREA TO MINIMIZE EROSION AND HELP ESTABLISH VEGETATION FOR INTERMEDIATE COVER AREAS THAT WILL NOT RECEIVE WASTE OR FINAL COVER WITHIN 180 DAYS AFTER PLACEMENT (REFER TO APPENDIX IIIF-G FOR MORE INFORMATION). MULCH, HYDROSEEDING OR SIMILAR METHODS WILL BE USED TO ESTABLISH VEGETATION OVER THE INTERMEDIATE COVER AREAS. SWALE AND LETDOWN SPACING WILL MEET THE REQUIREMENTS OF THE EROSION CONTROL PLAN INCLUDED IN APPENDIX IIIF-G.
 - REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN APPENDIX IIIC-D FOR LEACHATE STORAGE TANK DETAILS.
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIB. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIB.



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<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR	MAJOR PERMIT AMENDMENT SECTOR DEVELOPMENT PLAN I CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727 <small>CHICAGO, IL FORT WORTH, TX GRIFFITH, IN NAPERVILLE, IL SOUTH BEND, IN COLUMBUS, OH (817) 735-9770 ST. LOUIS, MO</small>															
	CITY OF FARMERS BRANCH																
DATE: 03/2012 FILE: 1339-351-11 CAD: A.4-SEQUENCE.DWG	DRAWN BY: JDW DESIGN BY: RJS REVIEWED BY: JAE	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/2012</td> <td>1st TCEQ COMMENT RESPONSE</td> </tr> <tr> <td>2</td> <td>06/2014</td> <td>SUPPLEMENTAL SUBMITTAL</td> </tr> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION	1	12/2012	1st TCEQ COMMENT RESPONSE	2	06/2014	SUPPLEMENTAL SUBMITTAL	10	10/2016	SEE LIST OF REVISIONS
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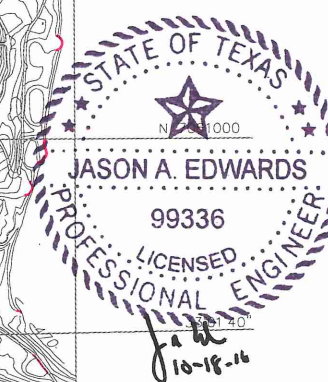
- PERMIT BOUNDARY
- - - LIMITS OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 400 PROPOSED FINAL COVER CONTOUR
- 560 PROPOSED INTERMEDIATE COVER CONTOUR (SEE NOTE 5)
- 600 REGRADED BUFFER ZONE AREA
- LEACHATE FORCEMAIN
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING SLURRY WALL
- OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 16)
- MW-8 EXISTING GROUNDWATER MONITORING WELL
- GMP-13 EXISTING LANDFILL GAS MONITORING PROBE
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 15 AND 16)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 15.
- REVISED PROPOSED FENCE LOCATION.
- UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
- UPDATED PERMIT BOUNDARY INFORMATION.

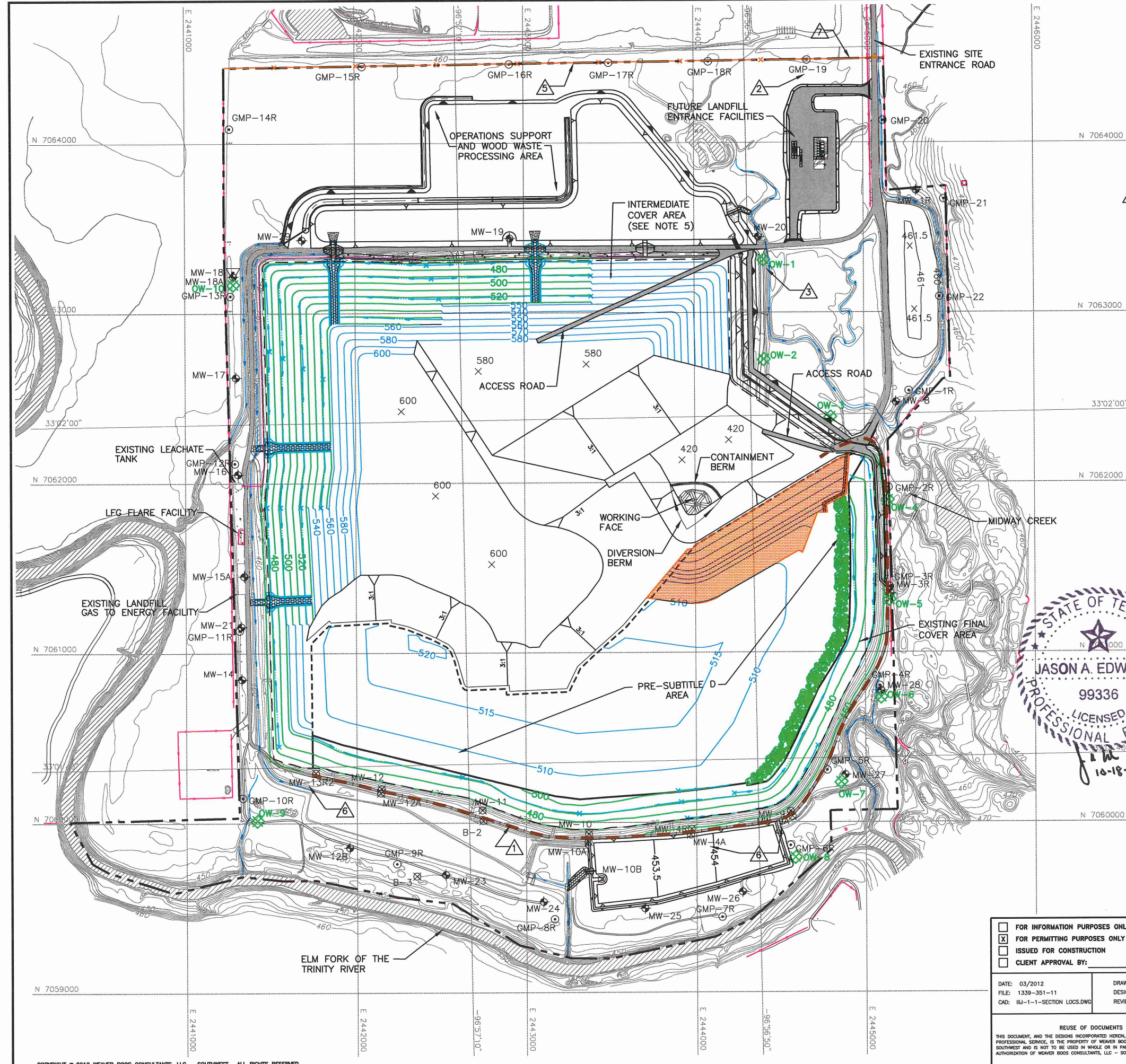
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- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
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- LANDFILL HAUL ROAD WILL BE SURFACED WITH CRUSHED STONE TO PROVIDE ALL-WEATHER ACCESS.
- REFER TO APPENDIX IIIF-SURFACE WATER DRAINAGE PLAN FOR THE EROSION AND SEDIMENTATION CONTROL PLAN. DRAINAGE STRUCTURES ARE SHOWN AS THE SITE DEVELOPS. ADDITIONALLY BMPs WILL BE USED TO CONTROL EROSION AS NEEDED.
- MAXIMUM SLOPE ON THE TEMPORARY ACCESS ROAD IS 10%.
- REFER TO APPENDIX IIIB FOR LANDFILL GAS MANAGEMENT PLAN.
- UNCONTAMINATED STORMWATER THAT HAS NOT COME INTO CONTACT WITH WASTE WILL BE COLLECTED IN SUMPS AND PERIODICALLY REMOVED FROM EXCAVATED AREAS BY PUMPING TO PERIMETER DRAINAGE CHANNELS OR USED IN SITE OPERATIONS (E.G., DUST CONTROL, COMPACTING, ETC.).
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- REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN APPENDIX IIIC-D FOR LEACHATE STORAGE TANK DETAILS.
- THE WASTE FROM THE INACTIVE MSW UNIT WILL BE RELOCATED PRIOR TO THE DEVELOPMENT OF CELL 12 AND WASTE FROM THE HISTORICAL WASTE FILL AREA WILL BE RELOCATED WITHIN 6 MONTHS OF THE ISSUANCE OF PERMIT MSW-1312B. REFER TO PART IV-SITE OPERATING PLAN, SECTION 4.25 FOR THE WASTE RELOCATION PLAN.
- THE FUTURE LANDFILL ENTRANCE FACILITIES MAY BE CONSTRUCTED ANY TIME PRIOR TO THE CONSTRUCTION OF COORPRATE DRIVE ALONG NORTHERN PORTION OF THE PROPERTY.
- LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.



16. OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIB. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIB.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR		MAJOR PERMIT AMENDMENT SECTOR DEVELOPMENT PLAN II CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727												
	CITY OF FARMERS BRANCH														
DATE: 03/2012 FILE: 1339-351-11 CAD: 0.5-SEQUENCE 2.DWG	DRAWN BY: JDW DESIGN BY: RJS REVIEWED BY: JAE	REVISIONS													
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10	10/2016	SEE LIST OF REVISIONS													
FORT WORTH, TX (817) 735-9770		GRIFFITH, IN SOUTH BEND, IN SPRINGFIELD, OH ST. LOUIS, MO	DRAWING 1/IIA.5												



LEGEND

- PERMIT BOUNDARY
- LIMITS OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
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- 500 EXISTING CONTOUR
- 400 PROPOSED FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- 560 PROPOSED INTERMEDIATE COVER CONTOUR (SEE NOTE 5)
- 600 REGRADED BUFFER ZONE AREA
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- EXISTING SLURRY WALL
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- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 13 AND 14)

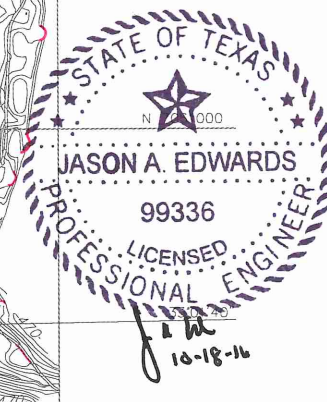
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- MAXIMUM SLOPE ON THE TEMPORARY ACCESS ROAD IS 10%.
- REFER TO APPENDIX IIIB FOR LANDFILL GAS MANAGEMENT PLAN.
- UNCONTAMINATED STORMWATER THAT HAS NOT COME INTO CONTACT WITH WASTE WILL BE COLLECTED IN SUMPS AND PERIODICALLY REMOVED FROM EXCAVATED AREAS BY PUMPING TO PERIMETER DRAINAGE CHANNELS OR USED IN SITE OPERATIONS (E.G., DUST CONTROL, COMPACTING, ETC.).
- TEMPORARY CHUTES AND SWALES WILL BE PLACED OVER THE INTERMEDIATE COVER AREA TO MINIMIZE EROSION AND HELP ESTABLISH VEGETATION FOR INTERMEDIATE COVER AREAS THAT WILL NOT RECEIVE WASTE OR FINAL COVER WITHIN 180 DAYS AFTER PLACEMENT (REFER TO APPENDIX IIIF-G FOR MORE INFORMATION). MULCH, HYDROSEEDING OR SIMILAR METHODS WILL BE USED TO ESTABLISH VEGETATION OVER THE INTERMEDIATE COVER AREAS. SWALE AND LETDOWN SPACING WILL MEET THE REQUIREMENTS OF THE EROSION CONTROL PLAN INCLUDED IN APPENDIX IIIF-G.
- REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN APPENDIX IIIC-D FOR LEACHATE STORAGE TANK DETAILS.
- LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
- OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIB. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIB.



<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR		MAJOR PERMIT AMENDMENT SECTOR DEVELOPMENT PLAN III CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727												
	CITY OF FARMERS BRANCH														
DATE: 03/2012 FILE: 1339-351-11 CAD: III-1-1-SECTION LOC.DWG	DRAWN BY: JDW DESIGN BY: RJS REVIEWED BY: JAE	REVISIONS													
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10	10/2016	SEE LIST OF REVISIONS													
SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO		FORT WORTH, TX (817) 735-9770													
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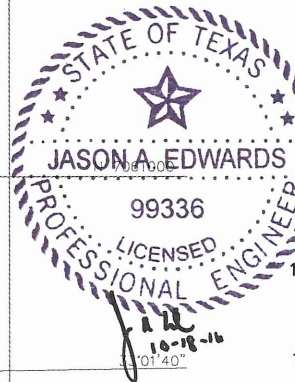
LEGEND

- PERMIT BOUNDARY
- - - LIMITS OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- 400 PROPOSED FINAL COVER CONTOUR
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- 560 PROPOSED INTERMEDIATE COVER CONTOUR (SEE NOTE 5)
- LEACHATE FORCEMAIN
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING SLURRY WALL
- PROPOSED WOODBINE MONITOR WELL (SEE NOTE 14)
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING LANDFILL GAS MONITORING PROBE
- OBSERVATION/MONITORING WELL (SEE NOTES 13 AND 14)
- INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 13.
- REVISED PROPOSED FENCE LOCATION.
- UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
- REVISED FINAL COVER AND INTERMEDIATE CONTOURS.
- UPDATED PERMIT BOUNDARY INFORMATION.

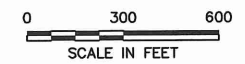
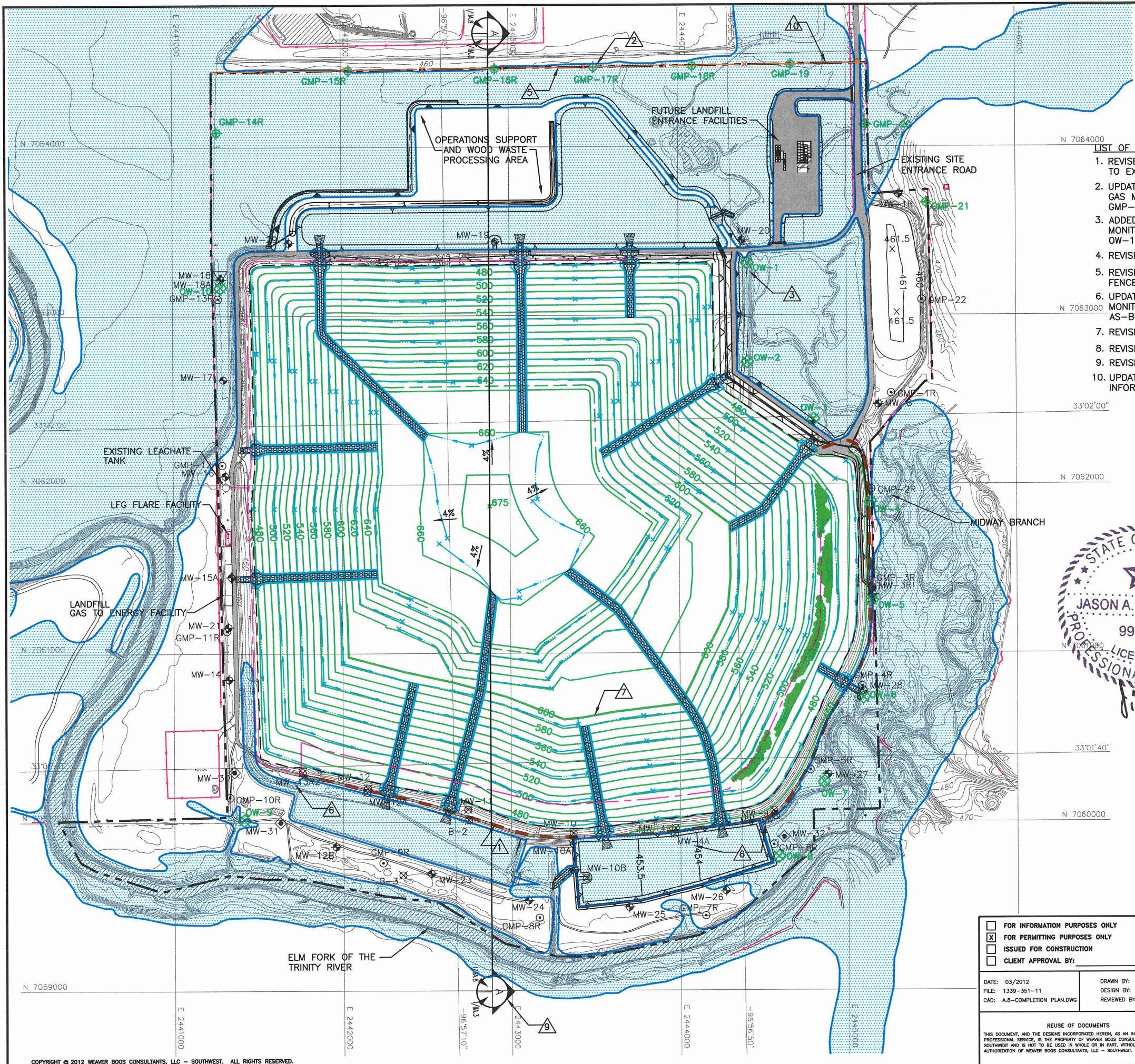
- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
 - REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN FOR CONTAMINATED WATER RUN-ON/RUN-OFF BERM DESIGN INFORMATION.
 - THE SECTOR DEVELOPMENT SHOWN ON THIS DRAWING SHOWS THE GENERAL SEQUENCE OF FILLING OPERATIONS. THE LOCATION OF THE ALL-WEATHER ACCESS ROAD FROM THE LANDFILL HAUL ROAD TO THE ACTIVE AREA WILL BE DETERMINED DURING SITE OPERATIONS.
 - INTERMEDIATE COVER CONSISTS OF A 12-INCH THICK SOIL LAYER. REFER TO PART IV - SITE OPERATING PLAN FOR ADDITIONAL SOIL COVER REQUIREMENTS.
 - LANDFILL HAUL ROAD WILL BE SURFACED WITH CRUSHED STONE TO PROVIDE ALL-WEATHER ACCESS.
 - REFER TO APPENDIX IIIF-SURFACE WATER DRAINAGE PLAN FOR THE EROSION AND SEDIMENTATION CONTROL PLAN. DRAINAGE STRUCTURES ARE SHOWN AS THE SITE DEVELOPS. ADDITIONALLY BMPs WILL BE USED TO CONTROL EROSION AS NEEDED.
 - MAXIMUM SLOPE ON THE TEMPORARY ACCESS ROAD IS 10%.
 - REFER TO APPENDIX IIII FOR LANDFILL GAS MANAGEMENT PLAN.
 - UNCONTAMINATED STORMWATER THAT HAS NOT COME INTO CONTACT WITH WASTE WILL BE COLLECTED IN SUMPS AND PERIODICALLY REMOVED FROM EXCAVATED AREAS BY PUMPING TO PERIMETER DRAINAGE CHANNELS OR USED IN SITE OPERATIONS (E.G., DUST CONTROL, COMPACTING, ETC.).
 - TEMPORARY CHUTES AND SWALES WILL BE PLACED OVER THE INTERMEDIATE COVER AREA TO MINIMIZE EROSION AND HELP ESTABLISH VEGETATION FOR INTERMEDIATE COVER AREAS THAT WILL NOT RECEIVE WASTE OR FINAL COVER WITHIN 180 DAYS AFTER PLACEMENT (REFER TO APPENDIX IIIF-G FOR MORE INFORMATION). MULCH, HYDROSEEDING OR SIMILAR METHODS WILL BE USED TO ESTABLISH VEGETATION OVER THE INTERMEDIATE COVER AREAS. SWALE AND LETDOWN SPACING WILL MEET THE REQUIREMENTS OF THE EROSION CONTROL PLAN INCLUDED IN APPENDIX IIIF-G.
 - REFER TO APPENDIX IIIC-LEACHATE AND CONTAMINATED WATER MANAGEMENT PLAN, APPENDIX IIIC-D FOR LEACHATE STORAGE TANK DETAILS.
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIF. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIF.



<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT SECTOR DEVELOPMENT PLAN IV CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727											
DATE: 03/2012 FILE: 1339-351-11 CAD: III-1-1-SECTION LOCS.DWG	DRAWN BY: JDW DESIGN BY: RJS REVIEWED BY: JAE	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/2012</td> <td>1st TCEQ COMMENT RESPONSE</td> </tr> <tr> <td>2</td> <td>06/2014</td> <td>SUPPLEMENTAL SUBMITTAL</td> </tr> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	1	12/2012	1st TCEQ COMMENT RESPONSE	2	06/2014	SUPPLEMENTAL SUBMITTAL	10	10/2016
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10	10/2016	SEE LIST OF REVISIONS												
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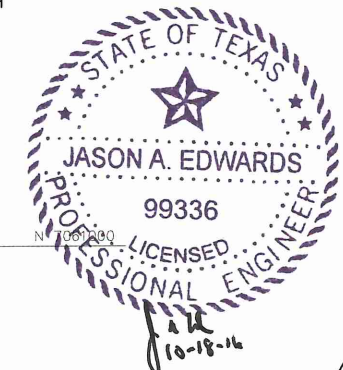


LIST OF REVISIONS:

1. REVISED SLURRY WALL TO EXISTING LOCATION.
2. UPDATED LOCATION OF PROPOSED GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
3. ADDED PROPOSED WOODBINE MONITOR WELLS OW-1 THROUGH OW-10.
4. REVISED NOTE 6.
5. REVISED PROPOSED FENCE LOCATION.
6. UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
7. REVISED FINAL COVER CONTOURS.
8. REVISED NOTE 4.
9. REVISED SECTION LOCATION.
10. UPDATED PERMIT BOUNDARY INFORMATION.

LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 FINAL COVER CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- MW-8 EXISTING GROUNDWATER MONITORING WELL
- MW-30 PROPOSED GROUNDWATER MONITORING WELL
- GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 6 AND 7)
- PROPOSED LEACHATE FORCEMAIN
- PROPOSED FENCE
- EXISTING FENCE
- LANDSCAPE BENCH
- 100-YEAR FLOODPLAIN (SEE NOTE 5)
- PERIMETER ACCESS ROAD
- EXISTING SLURRY WALL
- OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 14)
- INDICATES REVISION (SEE LIST OF REVISIONS)



- NOTE:
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
 2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESEY SURVEYING CO. DATED AUGUST 2016.
 3. REFER TO APPENDIX III-F-SURFACE WATER DRAINAGE PLAN FOR DRAINAGE DESIGN INFORMATION.
 4. MAXIMUM FINAL COVER ELEVATION IS 675 FT-MSL. MAXIMUM TOP OF WASTE ELEVATION IS 671.5 FT-MSL.
 5. FLOODPLAIN INFORMATION IS INCLUDED IN APPENDIX III-O.
 6. LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 7. OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX III-H. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX III-H.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY	PREPARED FOR
<input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY	CITY OF FARMERS BRANCH
<input type="checkbox"/> ISSUED FOR CONSTRUCTION	
<input type="checkbox"/> CLIENT APPROVAL BY:	
DATE: 03/2012	DRAWN BY: SRF
FILE: 1339-351-11	DESIGN BY: JAE
CAD: A-B-COMPLETION PLAN.DWG	REVIEWED BY: JPY
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REVISIONS		
NO.	DATE	DESCRIPTION
1	12/2012	1st TCEQ COMMENT RESPONSE
2	06/2014	SUPPLEMENTAL SUBMITTAL
10	10/2016	SEE LIST OF REVISIONS

**MAJOR PERMIT AMENDMENT
LANDFILL COMPLETION PLAN**

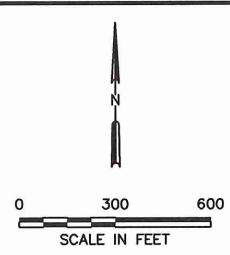
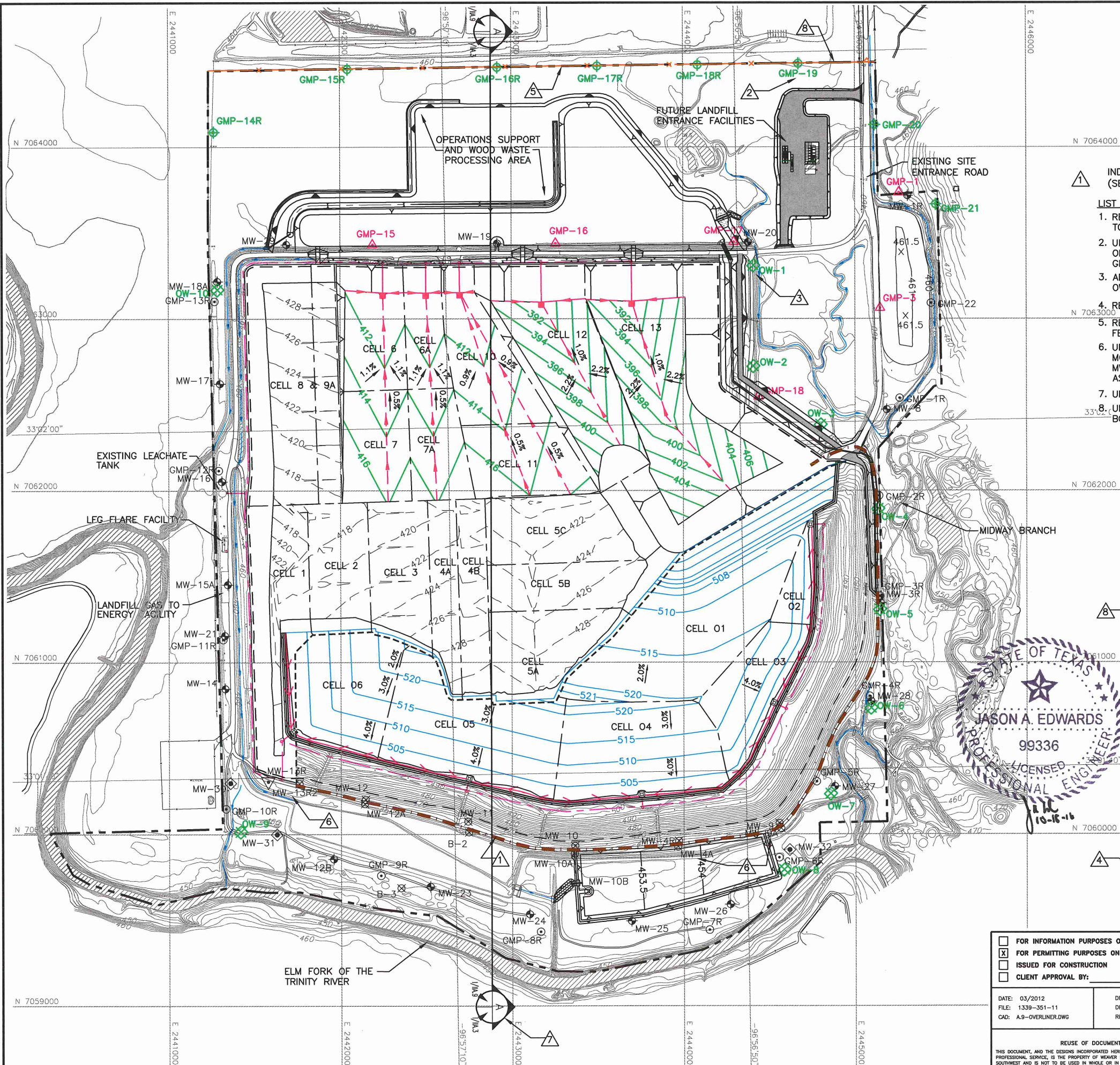
CAMELOT LANDFILL
DENTON COUNTY, TEXAS

Weaver Boos Consultants
TBPE REGISTRATION NO. F-3727

CHICAGO, IL	FORT WORTH, TX	GRIFFITH, IN
MAPERVILLE, IL	SOUTH BEND, IN	SOUTH BEND, IN
COLUMBUS, OH	(817) 735-9770	SPRINGFIELD, IL
DENVER, CO		ST. LOUIS, MO

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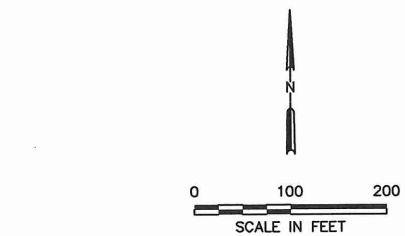
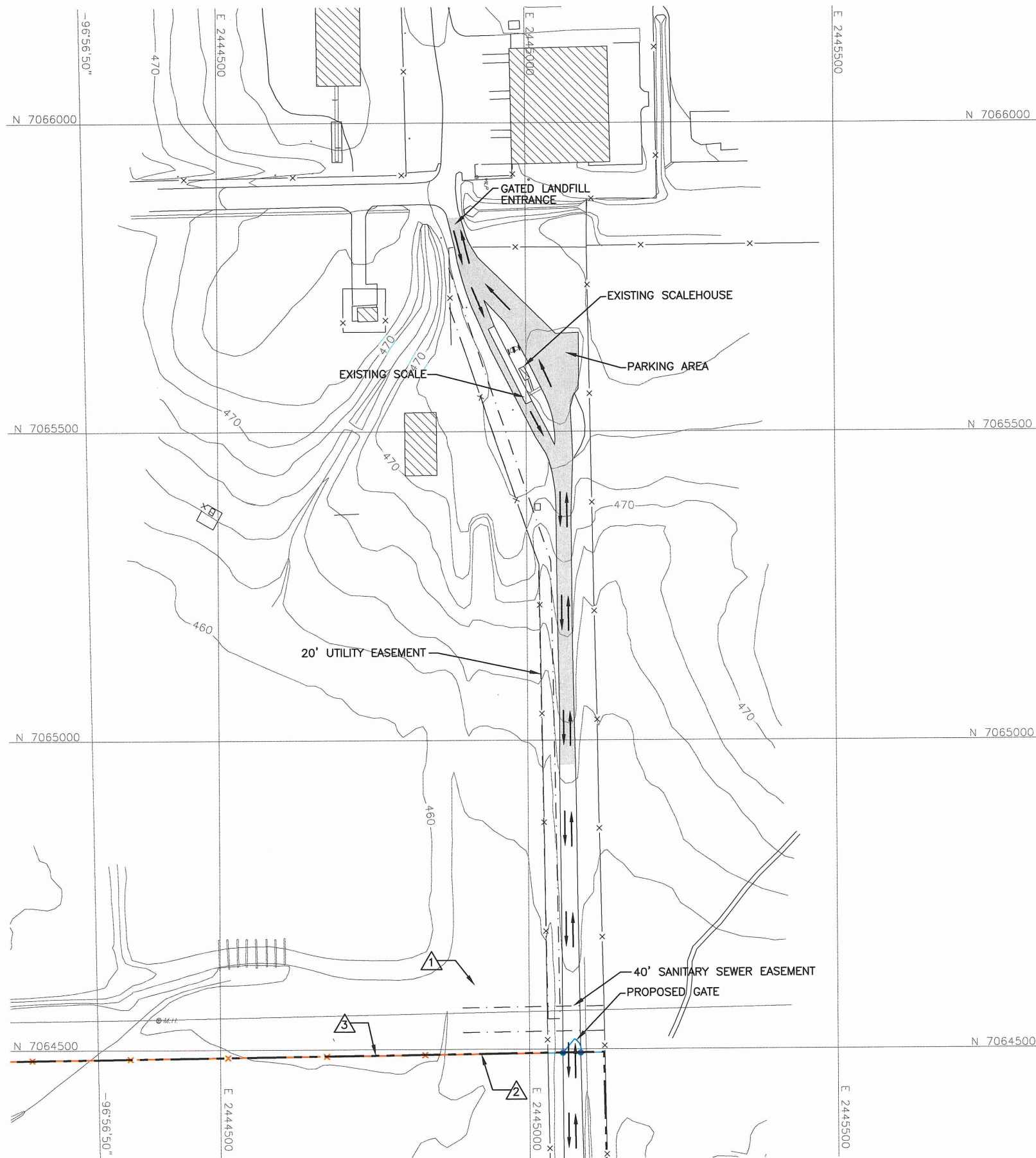
- LEGEND**
- PERMIT BOUNDARY (SEE NOTE 2)
 - LIMIT OF WASTE (SEE NOTE 2)
 - LIMIT OF PRE-SUBTITLE D WASTE
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR
 - CELL BOUNDARY
 - 398 EXCAVATION CONTOUR
 - EXISTING LEACHATE LINE
 - EXISTING LEACHATE COLLECTION SUMP
 - 422 AS-BUILT TOP OF SUBTITLE D CLAY LINER (SEE NOTE 10)
 - 515 TOP OF OVERLINER CONTOUR
 - 600 REGRADED BUFFER ZONE AREA
 - OVERLINER LEACHATE LINE
 - LEACHATE LINE
 - LEACHATE COLLECTION SUMP
 - LEACHATE RISER
 - PROPOSED LEACHATE FORCEMAIN
 - MW-8 EXISTING GROUNDWATER MONITORING WELL
 - ▽ MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
 - ◇ MW-30 PROPOSED GROUNDWATER MONITORING WELL
 - △ GMP-8 EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
 - ◇ GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
 - GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
 - ⊗ MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 13 AND 14)
 - ⊗ OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 14)
 - PERIMETER ACCESS ROAD
 - EXISTING SLURRY WALL
 - PROPOSED FENCE
- LIST OF REVISIONS:**
- REVISED SLURRY WALL TO EXISTING LOCATION.
 - UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
 - ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
 - REVISED NOTE 13.
 - REVISED PROPOSED FENCE LOCATION.
 - UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
 - UPDATED SECTION LOCATION.
 - UPDATED PERMIT BOUNDARY INFORMATION.

- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
 - EXCAVATION SLOPES AND SLOPES OUTSIDE THE LIMIT OF WASTE (e.g., CHANNELS) ARE TYPICALLY 3H:1V.
 - REFER TO APPENDIX IIIC FOR LEACHATE FORCEMAIN STORAGE TANK INFORMATION.
 - MINIMUM EXCAVATION ELEVATION AT LCS SUMP IS 387 FT-MSL.
 - SUBTITLE D AREA LCS PIPES SLOPE WITH A MINIMUM OF 0.5% TO SUMPS. LCS LATERAL DRAINAGE SLOPE IS A MINIMUM OF 0.9% ALONG THE FLOW PATH. OVERLINER LCS PIPES SLOPE WITH A MINIMUM 0.6% TO SUMPS.
 - LINER AND LEACHATE COLLECTION SYSTEM DETAILS ARE PRESENTED IN APPENDIX IIIA-A-LINER, OVERLINER AND FINAL COVER SYSTEM DETAILS.
 - SEQUENCE OF SITE DEVELOPMENT IS PROVIDED IN PARTS I/II, APPENDIX I/IIA DRAWINGS I/IIA.4 THROUGH I/IIA.7.
 - TYPICAL CROSS SECTION PROVIDED IN DRAWING I/IIA.3. ADDITIONAL SECTION INFORMATION IS PROVIDED IN APPENDIX IIIA-B - LANDFILL UNIT CROSS SECTIONS.
 - AS-BUILT TOP OF SUBTITLE D CLAY LINER CONTOURS WERE REPRODUCED FROM SLERS FROM 1997 THROUGH 2008.
 - REFER TO APPENDIX IIIF FOR DRAINAGE DESIGN INFORMATION.
 - REFER TO APPENDIX IIIB-OVERLINER POINT OF COMPLIANCE DEMONSTRATION, FOR THE OVERLINER DESIGN FOR THE PRE-SUBTITLE D AREA.
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIB. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIB.



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				FORT WORTH, TX (817) 735-9770 SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO													
				DRAWING I/IIA.9													

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LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- STATE PLANE COORDINATE SYSTEM
-
- EXISTING CONTOUR
- EXISTING FENCE
- PROPOSED FENCE (SEE NOTE 3)
- PROPOSED GATE (SEE NOTE 4)
- VEHICLE TRAFFIC DIRECTION
- ASPHALT PAVED AREA
- EASEMENT
- INDICATES REVISION (SEE LIST OF REVISIONS)

NOTE:

1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
3. THE NORTHERN PERIMETER FENCE WILL BE INSTALLED WITHIN SIX MONTHS AFTER TCEQ PERMIT NO. MSW-1312B IS ISSUED.
4. THE PROPOSED GATE WILL BE INSTALLED PRIOR TO CORPORATE DRIVE BEING COMPLETED NORTH OF THE PERMIT BOUNDARY.

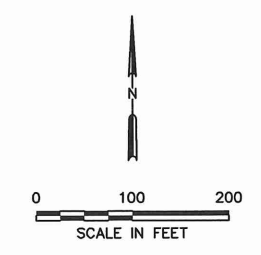
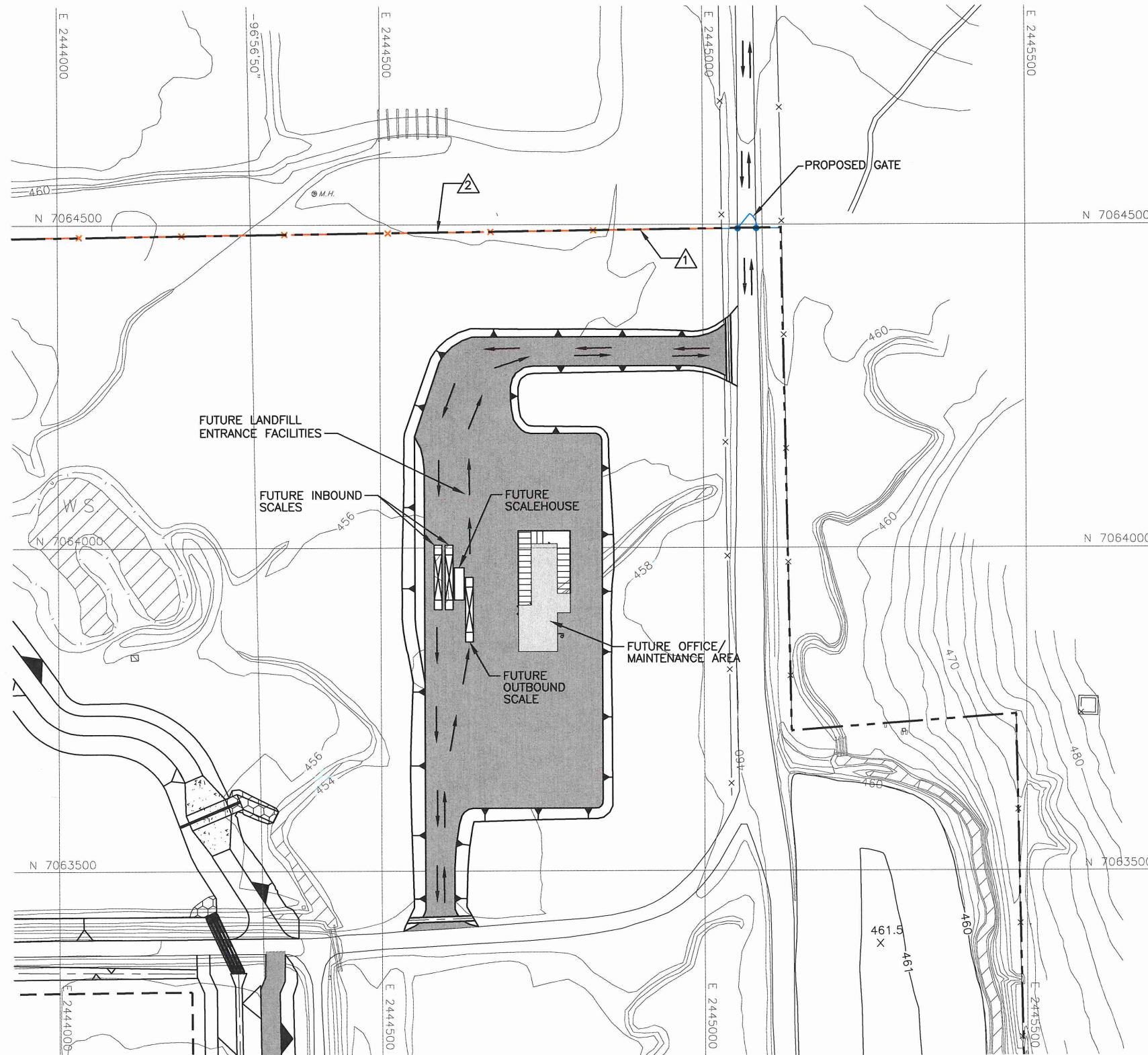
LIST OF REVISIONS:

1. REMOVED EASEMENT.
2. REVISED PROPOSED FENCE LOCATION.
3. REVISED PERMIT BOUNDARY INFORMATION.



<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____	PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT EXISTING SITE ENTRANCE PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727															
DATE: 03/2012 FILE: 1339-351-11 CAD: A.10-ENTRANCE FACILITY.DWG	DRAWN BY: SRF DESIGN BY: JAE REVIEWED BY: JPY	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">10</td> <td style="text-align: center;">10/2016</td> <td style="text-align: center;">SEE LIST OF REVISIONS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS						
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CHICAGO, IL NAPERVILLE, IL COLUMBUS, OH DENVER, CO		FORT WORTH, TX (817) 735-9770 SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO															
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- LEGEND**
- PERMIT BOUNDARY
 - - - LIMIT OF WASTE
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 96°56'50" GEODETIC COORDINATE SYSTEM
 - 470 EXISTING CONTOUR
 - x-x- EXISTING FENCE
 - x-x- PROPOSED FENCE
 - ▲ PROPOSED GATE
 - VEHICLE TRAFFIC DIRECTION
 - ▨ GABIONS
 - ▩ ASPHALT/GRAVEL
 - 600- REGRADED BUFFER ZONE AREA
 - ⚠ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTE:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
 2. CONSTRUCTION OF THE NEW ENTRANCE FACILITIES WILL COMPLETED PRIOR TO CONSTRUCTION OF CORPORATE DRIVE.



- LIST OF REVISIONS:**
1. REVISED PROPOSED FENCE LOCATION.
 2. UPDATED PERMIT BOUNDARY INFORMATION.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____		PREPARED FOR CITY OF FARMERS BRANCH							
DATE: 03/2012 FILE: 1339-351-11 CAD: A.11-ENTRANCE FACILITY.DWG	DRAWN BY: SRF DESIGN BY: JAE REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS
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LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 FINAL COVER CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- MW-8 GROUNDWATER MONITORING WELL
- MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
- MW-30 PROPOSED GROUNDWATER MONITORING WELL
- GMP-8 EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
- GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 9)
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 8 AND 9)
- EXISTING FENCE
- PROPOSED FENCE (SEE NOTE 6)
- PROPOSED GATE (SEE NOTE 5)
- PROPOSED LEACHATE FORCEMAIN
- LANDSCAPE BENCH
- PERIMETER ACCESS ROAD
- EXISTING TREES
- EXISTING SLURRY WALL (SEE NOTE 10)

NOTES:

1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016.
3. ACCESS TO THE SITE WILL BE CONTROLLED BY PERIMETER FENCING (MINIMUM 4-FOOT HIGH, 3-STRAND BARBED WIRE FENCE), A GATED ENTRANCE, AND NATURAL BARRIERS (e.g., DENSE FOLIAGE, VEGETATION, AND THE ELM FORK OF THE TRINITY RIVER). ADDITIONALLY IN AREAS OF NATURAL BARRIERS (THE SOUTHERN PORTION OF THE SITE), THE ACCESS CONTROL PLAN IS PROVIDED TO PREVENT THE ENTRY OF LIVESTOCK, TO PROTECT THE PUBLIC FROM EXPOSURE TO POTENTIAL HEALTH AND SAFETY HAZARDS, AND TO DISCOURAGE UNAUTHORIZED ENTRY OR UNCONTROLLED DISPOSAL OF SOLID WASTE OR HAZARDOUS MATERIALS. NO TRESPASSING SIGNS WILL BE ADDED TO DISCOURAGE UNAUTHORIZED ENTRY OR UNCONTROLLED DISPOSAL OF SOLID WASTE OR HAZARDOUS MATERIALS. SIGNS WILL BE PLACED APPROXIMATELY 300 FEET APART ALONG THE SOUTHERN PORTION OF THE SITE.
4. ALL THE GROUNDWATER MONITORING WELLS AND LFG MONITORING PROBES ARE LOCATED WITHIN THE PERIMETER FENCE.
5. A NEW GATE WILL BE INSTALLED ONCE CORPORATE DRIVE IS COMPLETED NORTH OF THE PERMIT BOUNDARY.
6. THE NORTHERN PERIMETER FENCE WILL BE INSTALLED WITHIN SIX MONTHS AFTER TCEQ PERMIT NO. MSW-1312B IS ISSUED.
7. THIS GATE IS NOT A PUBLIC SITE ACCESS POINT. THIS GATE IS ONLY USED BY THE OWNER OF THE NATURAL GAS DRILL PAD SITE LOCATED ADJACENT TO THE PERMIT BOUNDARY. THIS GATE REMAINS CLOSED AND LOCKED EXCEPT WHEN PERMISSION TO ACCESS THE PAD SITE IS GRANTED BY THE CITY OF FARMERS BRANCH OR THE LANDFILL MANAGER.
8. LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE PRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
9. OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.

LIST OF REVISIONS:

1. REVISED FINAL COVER CONTOURS.
2. UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
3. ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
4. REVISED SLURRY WALL TO EXISTING LOCATION.
5. REVISED NOTE 8.
6. REVISED PROPOSED FENCE LOCATION.
7. UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
8. UPDATED PERMIT BOUNDARY INFORMATION.

STATE OF TEXAS
JASON A. EDWARDS
 99336
 LICENSED PROFESSIONAL ENGINEER
 11-18-16

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DATE: 03/2012 FILE: 1339-351-11 CAD: A.12-ACCESS CONTROL.DWG	DRAWN BY: SRF DESIGN BY: JAE REVIEWED BY: JPY	REVISIONS	CAMELOT LANDFILL DENTON COUNTY, TEXAS															
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3	06/2014	SUPPLEMENTAL SUBMITTAL																
10	10/2016	SEE LIST OF REVISIONS																
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			DRAWING 1/IIA.12															

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

APPENDIX I/IIC

LOCATION RESTRICTION DEMONSTRATIONS

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised June 2014

Revised October 2016



Prepared by

Weaver Boos Consultants, LLC-Southwest
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
817-735-9770

WBC Project No. 1339-351-11-02-6A

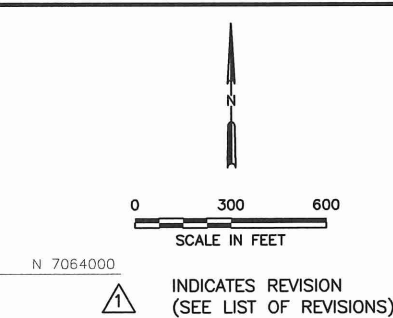
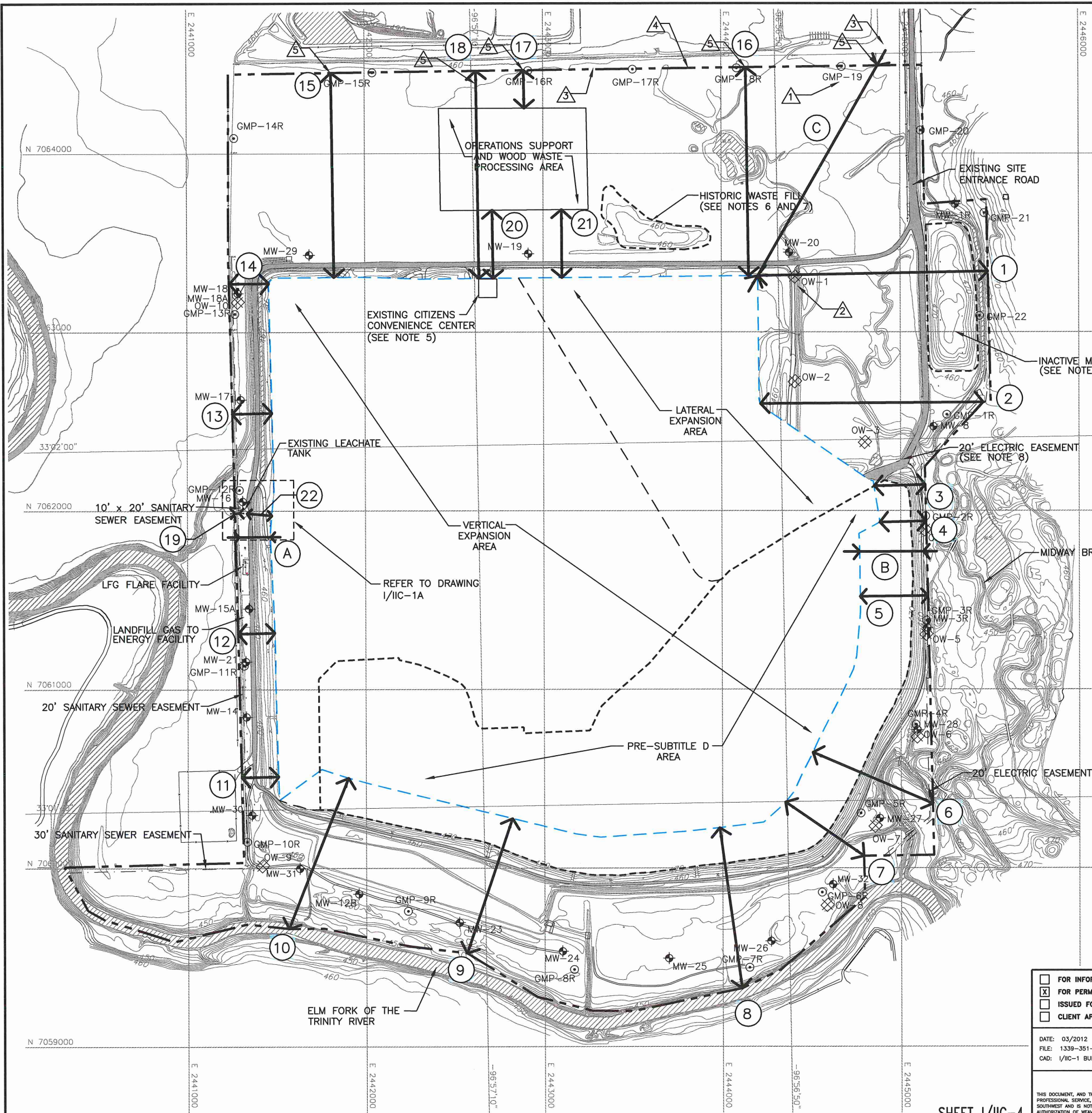
This document is intended for permitting purposes only.

The existing leachate tank is located next to the City of Lewisville sewer line to facilitate the transfer of leachate from the storage tank to the sanitary sewer. This leachate storage configuration maximizes the distance between the east side of the tank and the limits of waste. As shown on Figure I/IIC-1A, a buffer zone of 139 feet is provided between the limits of waste and the storage tank to facilitate site access and access for emergency vehicles. An all-weather perimeter road is located within this area. It is proposed that this area be authorized as an acceptable alternative buffer zone configuration, consistent with §330.543(b)(1).

Five As shown on Drawing I/IIA.1, there are three easements are located within the permit boundary at the site. A 20 to 30-foot-wide sanitary sewer easement is located along the western side of the permit boundary, a 10-foot by 20-foot sanitary sewer easement is located along the western side of the permit boundary adjacent to the 20 to 30-foot-wide sanitary sewer easement, and a 20-foot-wide electrical easement is located along the eastern side of the permit boundary, and a 40-foot wide right-of-way dedication and a 40-foot wide sanitary sewer easement cross the permit boundary on the north side of the site. The 20-foot-wide electrical easement encroaches on the limit of waste; however, this is for an electrical line that currently serves the existing maintenance area and will be abandoned prior to the development of this area. At their closest point for the remaining four easements, the easement boundaries are a minimum of 180 feet away from the limit of waste, providing the required separation between the easement and the waste footprint. In addition, all utility line and pipeline easements will be clearly marked in accordance with the Site Operating Plan.

Given the above, the site is in compliance with the easements and buffer zone location restrictions.

O:\1339\351\EXPANSION 2009\PARTS 1-I\1-IIC-1 BUFFER ZONE PLAN.dwg, 10/17/2016 4:00:52 PM, r.morris, 1:2



- LEGEND**
- PERMIT BOUNDARY (SEE NOTE 2)
 - - - EXISTING PERMITTED PRE-SUBTITLE D LIMIT OF WASTE (TCEQ PERMIT NO. 1312A)
 - - - EXISTING PERMITTED SUBTITLE D LIMIT OF WASTE (TCEQ PERMIT NO. 1312A)
 - - - NEWLY PERMITTED AIRSPACE LIMIT OF WASTE (SEE NOTE 4)
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR
 - EASEMENT
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)
 - MW-8 EXISTING GROUNDWATER MONITORING WELL
 - GMP-13 EXISTING LANDFILL GAS MONITORING PROBE
 - OW-1 WOODBINE MONITOR WELL
- LIST OF REVISIONS:**
1. UPDATED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
 2. ADDED MONITOR WELLS OW-1 THROUGH OW-10.
 3. REMOVED EASEMENTS.
 4. UPDATED PERMIT BOUNDARY INFORMATION.
 5. UPDATED BUFFER ZONE DISTANCES.

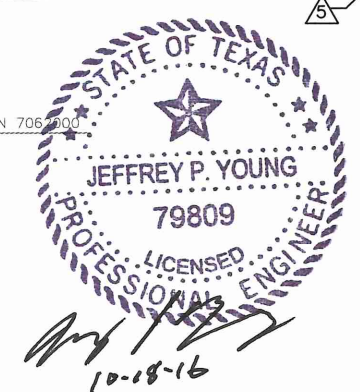
LANDFILL BUFFER ZONE INFORMATION

LOCATION	BUFFER ZONE BETWEEN PERMIT BOUNDARY AND EXISTING PERMITTED SUBTITLE D LIMIT OF WASTE	BUFFER ZONE BETWEEN PERMIT BOUNDARY AND NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
1	NA ¹	1289 FEET
2	NA ¹	1247 FEET
3	126 FEET	288 FEET
4	86 FEET	259 FEET
5	88 FEET	379 FEET
6	441 FEET	731 FEET
7	243 FEET	531 FEET
8	706 FEET	908 FEET
9	615 FEET	796 FEET
10	708 FEET	907 FEET
11	207 FEET	207 FEET
12	207 FEET	207 FEET
13	223 FEET	223 FEET
14	220 FEET	220 FEET
15	1146 FEET	1146 FEET
16	NA ¹	1168 FEET

PROCESSING/DISPOSAL UNIT BUFFER ZONE INFORMATION

LOCATION	BUFFER ZONE BETWEEN PERMIT BOUNDARY AND EXISTING PERMITTED SUBTITLE D LIMIT OF WASTE	BUFFER ZONE BETWEEN PERMIT BOUNDARY AND NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
17	FUTURE WOOD WASTE PROCESSING AREA	212 FEET
18	CITIZENS CONVENIENCE CENTER	1163 FEET
19	EXISTING LEACHATE STORAGE TANK	25 FEET
20	FUTURE WOOD WASTE PROCESSING AREA/ EXISTING CITIZENS CONVENIENCE CENTER	381 FEET
21	FUTURE WOOD WASTE PROCESSING AREA/ NEWLY PERMITTED AIRSPACE LIMIT OF WASTE	381 FEET
22	EXISTING LEACHATE TANK/ NEWLY PERMITTED AIRSPACE LIMIT OF WASTE	139 FEET

LOCATION	BUFFER ZONE BETWEEN EASEMENT BOUNDARY AND EXISTING PERMITTED SUBTITLE D LIMIT OF WASTE	BUFFER ZONE BETWEEN EASEMENT BOUNDARY AND NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
A	175 FEET	175 FEET
B	63 FEET	357 FEET
C	1354 FEET	1354 FEET

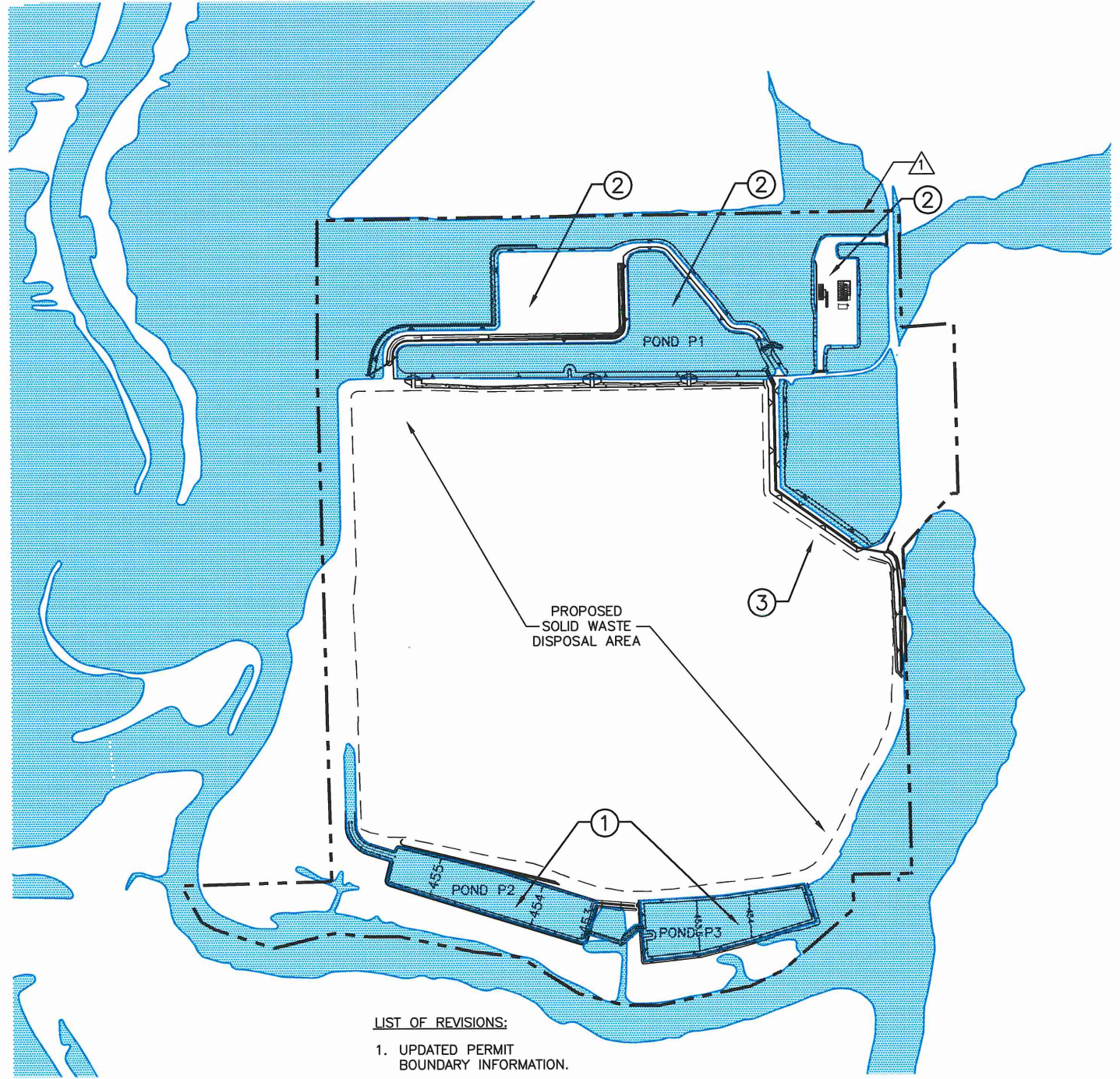
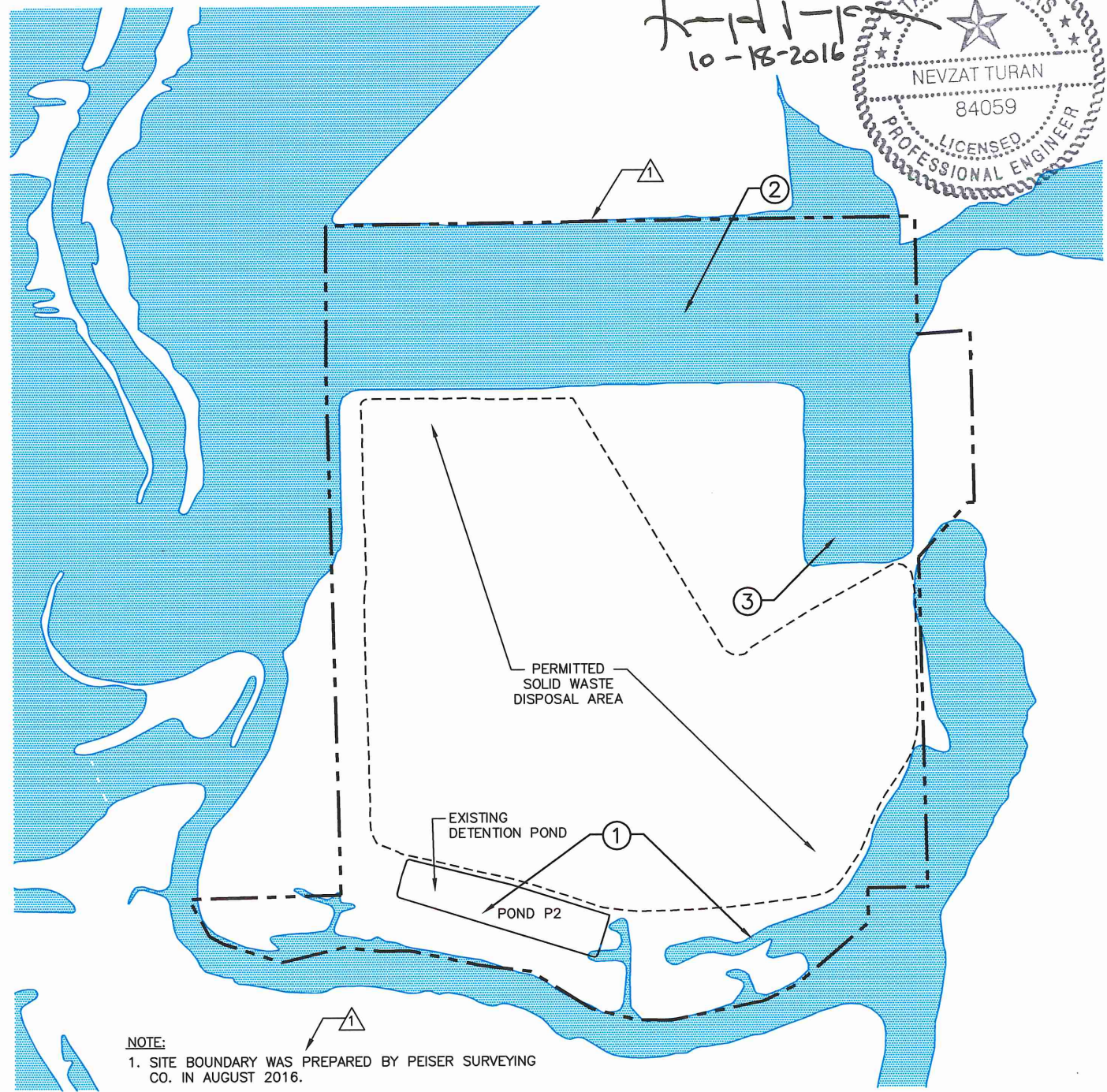


- NOTES:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 3. AS SHOWN IN APPENDIX I/IIC, THE BUFFER ZONES VARY AROUND THE PERIMETER OF THE SITE, BUT IN NO CASE ARE THEY LESS THAN 50- FEET FOR EXISTING WASTE. THE BUFFER ZONE BETWEEN THE PERMIT BOUNDARY AND THE LATERAL EXPANSION IS AT LEAST 125- FEET. THE BUFFER ZONE BETWEEN THE PERMIT BOUNDARY AND NEWLY PERMITTED (PERMIT NO. 1312B) WASTE DISPOSAL AIRSPACE IS AT LEAST 125- FEET.
 4. THE NEWLY PERMITTED AIRSPACE LIMIT OF WASTE REFLECTS THE LATERAL EXPANSION AREA AND THE LIMIT OF WASTE THAT IS ASSOCIATED WITH THE VERTICAL EXPANSION AREA FOR MSW PERMIT NO. 1312B.
 5. THE CITIZENS CONVENIENCE CENTER WILL BE RELOCATED TO THE OPERATIONS SUPPORT AND WOOD WASTE PROCESSING AREA PRIOR TO THE DEVELOPMENT OF CELL 10.
 6. THE HISTORIC WASTE FILL AREA LIMITS ARE APPROXIMATE. THE RECORD FOR TCEQ PERMIT NO. MSW-946 INDICATES WASTE WAS PLACED PRIOR TO THE ISSUANCE OF THE PERMIT IN 1979. HOWEVER, THERE IS NO DRAWING THAT SHOWS THE ACTUAL LIMITS OF WASTE. THE LIMITS WERE ESTABLISHED BY VISUAL OBSERVATIONS OF THE AREA.
 7. WASTE IN THE INACTIVE MSW UNIT AND THE HISTORICAL WASTE FILL AREA WILL BE RELOCATED PRIOR TO THE DEVELOPMENT OF THE NORTH DETENTION POND.
 8. THIS 20' ELECTRICAL EASEMENT PROVIDES ELECTRICITY TO THE TEMPORARY MAINTENANCE AREA. THE EASEMENT WILL BE ABANDONED PRIOR TO DEVELOPMENT IN THIS AREA.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT BUFFER ZONE PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727	
	DATE: 03/2012 FILE: 1339-351-11 CAD: I/IIC-1 BUFFER ZONE.DWG	DRAWN BY: VRS DESIGN BY: MDM REVIEWED BY: JPY		
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		NO. 10 DATE 10/2016 DESCRIPTION SEE LIST OF REVISIONS	FORT WORTH, TX (817) 735-9770	

EXISTING PERMITTED CONDITION

PROPOSED CONDITION

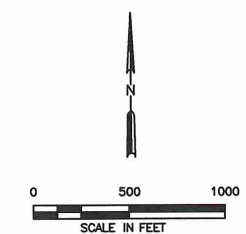


- NOTE:**
1. SITE BOUNDARY WAS PREPARED BY PEISER SURVEYING CO. IN AUGUST 2016.
 2. FLOODPLAIN REPRODUCED FROM FIRM NO. 48121C0565 G, EFFECTIVE DATE APRIL 18, 2011.

- LIST OF REVISIONS:**
1. UPDATED PERMIT BOUNDARY INFORMATION.

CHANGES FROM EXISTING PERMITTED TO THE PROPOSED CONDITION

- ① ADDITION OF DETENTION POND, POND P3. THE SOUTHWEST POND (POND P2) WAS CONSTRUCTED AS AUTHORIZED BY THE CLOMR APPLICATION (CASE NO. 02-06-1950R APPROVED BY FEMA ON NOVEMBER 18, 2002 FOR THE EXISTING PERMITTED SITE). THE SOUTHEAST POND (POND P3) WILL FUNCTION SIMILAR TO THE PREVIOUSLY-PERMITTED SOUTHWEST POND.
- ② NORTHERN AREA DEVELOPMENT. TO ALLOW FOR THE DEVELOPMENT OF FACILITIES TO SUPPORT THE OPERATION OF THE LANDFILL, THIS PROJECT INCLUDES THE REMOVAL OF TWO AREAS FROM THE FLOODPLAIN IN THE NORTHERN PORTION OF THE SITE. THESE TWO AREAS WILL BE USED FOR (1) OFFICES AND MAINTENANCE FACILITIES, INCLUDING ACCESS ROADS AND (2) A 16-ACRE AREA THAT WILL BE USED TO SUPPORT OPERATIONS, SUCH AS EQUIPMENT STORAGE, A CITIZEN CONVENIENCE CENTER, ENTRANCE FACILITIES, ACCESS ROADS, AND/OR A WOOD WASTE PROCESSING AREA.
- ③ REMOVAL OF NORTHEAST AREA FROM FLOODPLAIN TO ALLOW FOR THE CONTINUED DEVELOPMENT OF THE LANDFILL. THIS AREA IS PROPOSED TO BE REMOVED FROM THE INEFFECTIVE FLOW AREA OF THE 100-YEAR FLOODPLAIN.



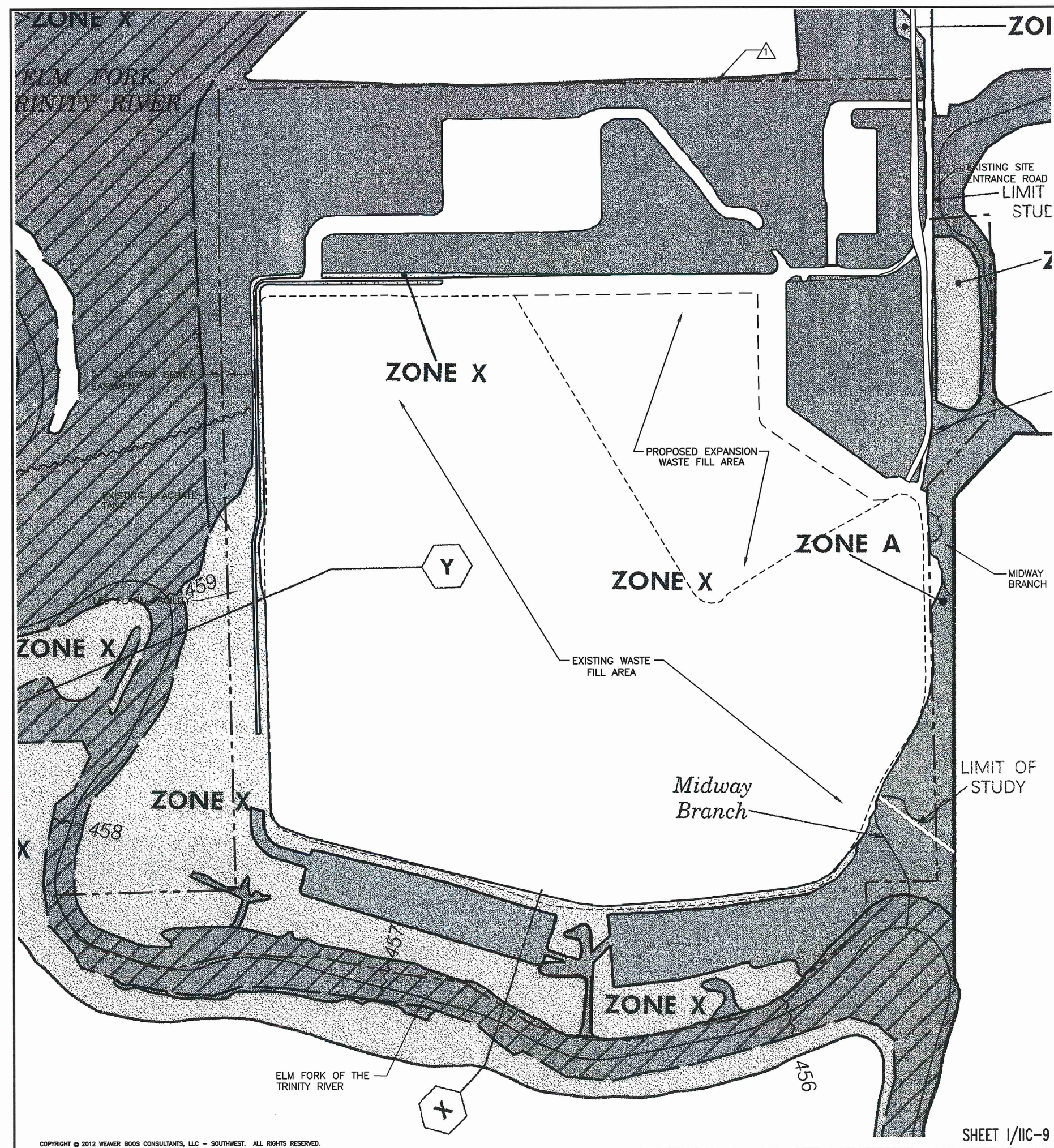
- LEGEND**
- PERMIT BOUNDARY
 - PROPOSED LIMIT OF WASTE
 - .-.- AUTHORIZED LIMIT OF WASTE
 - Blue shaded area 100-YEAR FLOODPLAIN
 - Triangle symbol INDICATES REVISION (SEE LIST OF REVISIONS)

SHEET 1/IIC-8

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____	PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT FLOODPLAIN CONDITION COMPARISON CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727						
	DATE: 03/2012 FILE: 1339-351-11 QAD: C-2-FLOODPLAIN COMP.DWG								
DRAWN BY: VRS DESIGN BY: CRM REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	10	10/2016	SEE LIST OF REVISIONS	CHICAGO, IL NAPERVILLE, IL COLUMBUS, OH DENVER, CO
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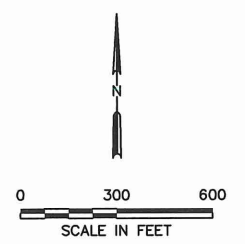
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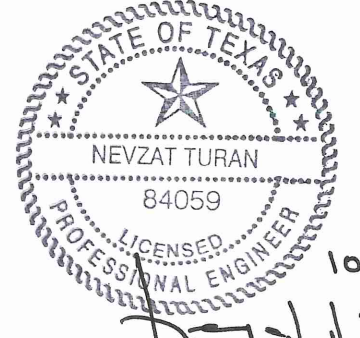
LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
 - ZONE A** No base flood elevations determined.
 - ZONE AE** Base flood elevations determined.
 - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
 - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
 - ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
 - ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
 - ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE
- OTHER FLOOD AREAS
 - ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
- OTHER AREAS
 - ZONE X** Areas determined to be outside 500-year floodplain.
 - ZONE D** Areas in which flood hazards are undetermined.
- UNDEVELOPED COASTAL BARRIERS**
 - Identified 1983
 - Identified 1990
 - Otherwise Protected Areas
- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
- Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.
- Cross Section Line
- Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.
- Elevation Reference Mark
- River Mile
- Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.



LEGEND

- PERMIT BOUNDARY
- PROPOSED LIMIT OF WASTE
- AUTHORIZED LIMIT OF WASTE
- INDICATES REVISION (SEE LIST OF REVISIONS)



10-18-2016
[Signature]

NOTE:

1. PORTIONS OF FLOODPLAIN AND FLOODWAY BOUNDARIES WERE REPRODUCED FROM FEMA FIRM NUMBER 48121C0565 F, EFFECTIVE DATE AUGUST 23, 2001.
2. PROPOSED PERMIT BOUNDARY WAS PREPARED BY PEISER SUREYING CO. IN AUGUST 2016.

LIST OF REVISIONS:

1. UPDATED PERMIT BOUNDARY INFORMATION.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____		PREPARED FOR CITY OF FARMERS BRANCH	
DATE: 10/2012 FILE: 1339-351-11 CAD: 1-11-3-REVISED FIRM.DWG	DRAWN BY: SRF DESIGN BY: CRM REVIEWED BY: JPY	REVISIONS	
		NO.	DATE
		10	10/2016
		SEE LIST OF REVISIONS	
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MAJOR PERMIT AMENDMENT REVISED FLOOD INSURANCE RATE MAP CAMELOT LANDFILL DENTON COUNTY, TEXAS		
<i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727		
CHICAGO, IL WAPERVILLE, IL COLUMBUS, OH DENVER, CO	FORT WORTH, TX (817) 735-9770	GRIFFITH, IN SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO

DRAWING 1/IIC-3	
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**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
SITE DEVELOPMENT PLAN NARRATIVE**

Prepared for

City of Farmers Branch

March 2012

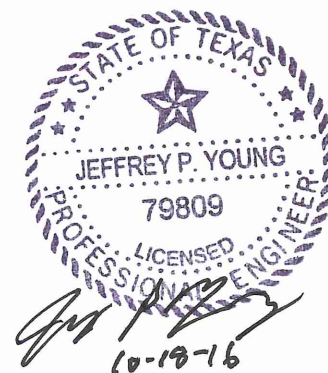
Revised December 2012

Revised August 2013

Revised December 2013

Revised June 2014

Revised October 2016



Prepared by

Weaver Boos Consultants, LLC–Southwest

TBPE Registration No. F-3727

6420 Southwest Blvd., Suite 206

Fort Worth, TX 76109

817-735-9770

WBC Project No. 1339-351-11-02-6B

This document is intended for permitting purposes only.

1 INTRODUCTION (§330.63(a))

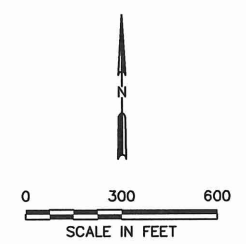
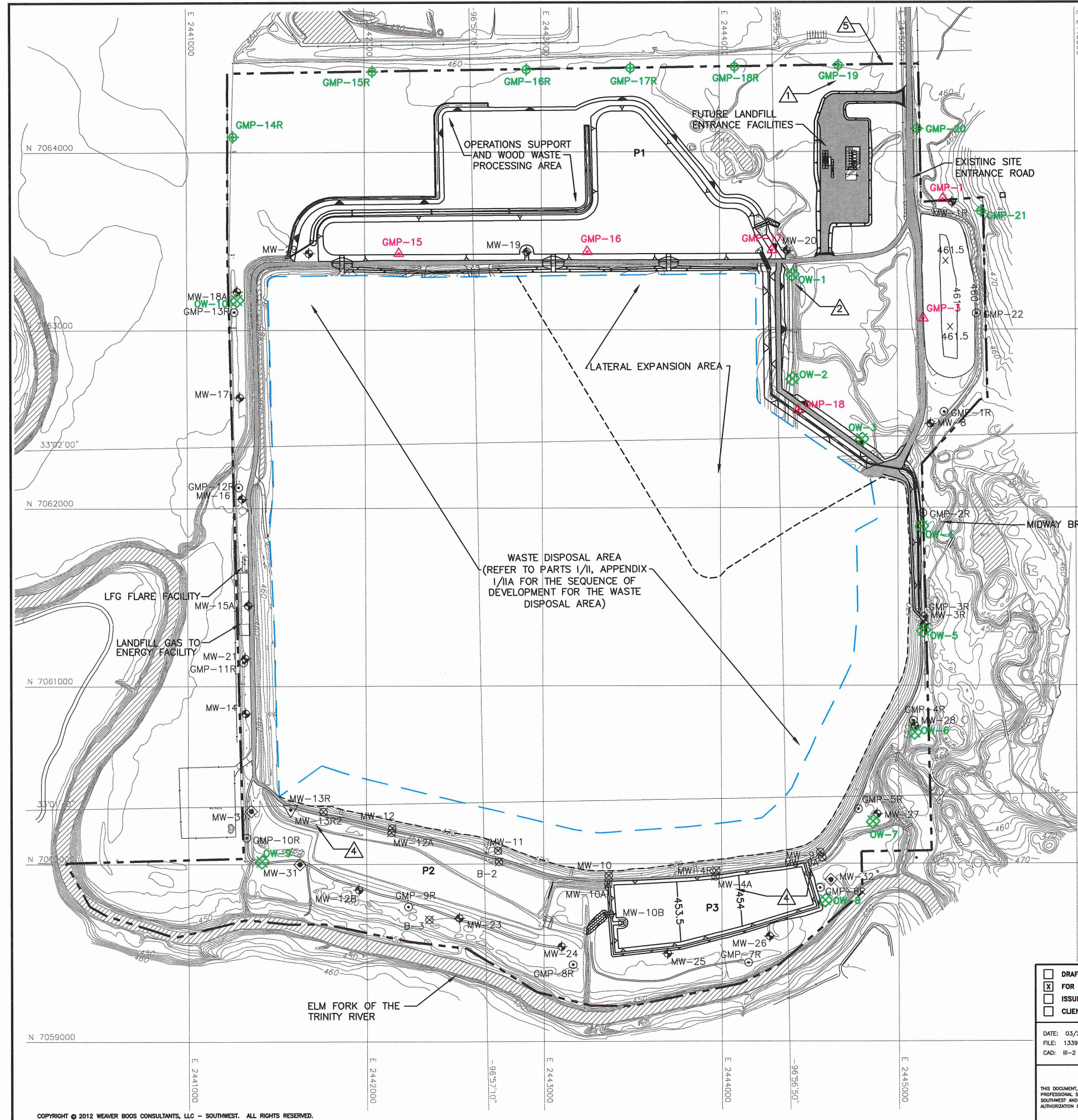
This Site Development Plan (SDP) for the Camelot Landfill has been prepared consistent with the MSW regulations within Title 30 TAC Chapter 330, including §330.63. This SDP provides the design details needed to provide for the safeguarding of the health, welfare, and physical property of the people and the environment through consideration of geology, soil conditions, drainage, land use, zoning, and adequacy of access roads and highways.

This section addresses §330.63. Additional specific regulatory cites addressed by each section of Part III are listed in the heading.

The purpose of this Major Permit Amendment is to secure authorization for a vertical and horizontal expansion of the Camelot Landfill. The existing active 198.3-acre waste disposal area will be expanded by 38.5 acres. The existing permit boundary, surveyed in November 2010 as 350.77 acres, will be expanded by ~~448.85~~ 108.99 acres to ~~469.62~~ 459.76 acres. The maximum permitted final cover elevation will be increased from 523 ft-msl to ~~725~~ 675 ft-msl and the resulting capacity increase is ~~37,700,000~~ 30,300,000 cy. Other site improvements include the following.

- Expanded stormwater management system.
- Relocation of waste in the historic fill area associated with TCEQ Permit No. MSW-946.
- Relocation of waste from the 5.1-acre inactive MSW unit in the northeast portion of the site to create an additional buffer zone (greenfield/open space) area.
- ~~Installation of a slurry wall around the southern and eastern portion of the site as part of the containment system design.~~
- Enhanced landfill gas and groundwater monitoring systems.
- ~~Installation of a leachate removal system in the pre-Subtitle D area.~~

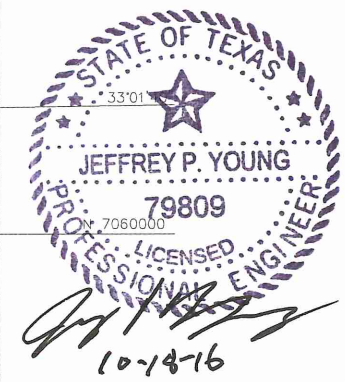
C:\339\351\EXPANSION 2009\PART III-SDP\III-2 SCHEMATIC.dwg, 10/17/2016 4:09:26 PM, r.morris, 1:2



- LIST OF REVISIONS:**
1. UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
 2. ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
 3. REVISED NOTE 5.
 4. UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
 5. UPDATED PERMIT BOUNDARY INFORMATION.

- LEGEND**
- PERMIT BOUNDARY
 - - - - AUTHORIZED LIMIT OF WASTE
 - NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR (SEE NOTE 1)
 - 600 REGRADED BUFFER ZONE AREA
 - OW-1 PROPOSED WOODBINE MONITOR WELL
 - MW-8 EXISTING GROUNDWATER MONITORING WELL
 - MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
 - MW-30 PROPOSED GROUNDWATER MONITORING WELL
 - GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
 - GMP-8 EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
 - GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
 - MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 5 AND 6)
 - INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTES:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 1988.
 2. PROPOSED PERMIT BOUNDARY WAS PREPARED BY PEISER SUREYING CO. IN AUGUST 2016.
 3. SEQUENCE OF SITE DEVELOPMENT IS PROVIDED IN APPENDIX I/IIA.
 4. APPENDIX IIIA INCLUDES INFORMATION ON THE LANDFILL DESIGN.
 5. LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 6. OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.



<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR	MAJOR PERMIT AMENDMENT SCHEMATIC SITE PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727												
	CITY OF FARMERS BRANCH													
DATE: 03/2012 FILE: 1339-351-11 CAD: III-2 SCHEMATICPLAN.DWG	DRAWN BY: JOW DESIGN BY: JLG REVIEWED BY: JPY	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/2012</td> <td>1st TCEQ COMMENT RESPONSE</td> </tr> <tr> <td>2</td> <td>06/2014</td> <td>SUPPLEMENTAL SUBMITTAL</td> </tr> <tr> <td>10</td> <td>10/2016</td> <td>SEE LIST OF REVISIONS</td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	1	12/2012	1st TCEQ COMMENT RESPONSE	2	06/2014	SUPPLEMENTAL SUBMITTAL	10	10/2016	SEE LIST OF REVISIONS
NO.	DATE	DESCRIPTION												
1	12/2012	1st TCEQ COMMENT RESPONSE												
2	06/2014	SUPPLEMENTAL SUBMITTAL												
10	10/2016	SEE LIST OF REVISIONS												
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		FORT WORTH, TX SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO												
		FIGURE III-2												

3.2 Site Drainage Patterns

The 469.62 459.76-acre Camelot Landfill permit boundary is located approximately 2 miles south of Lake Lewisville. The Elm Fork Trinity River forms the southern boundary of the site. Midway Branch, a tributary of the Elm Fork, flows along the east side of the permit boundary.

The local drainage basin, which includes the permit boundary and offsite areas discharging onto or directly receiving flow from the permit boundary, is 2.82 square miles (0.17 percent of the Elm Fork's drainage basin upstream of the site). The majority of the area within the permit boundary discharges south or west into the Elm Fork. A smaller portion of the area within the permit boundary drains east into Midway Branch and ultimately discharges into the Elm Fork approximately 200 feet southeast of the permit boundary. As discussed in Section 4 of Appendix III F – Surface Water Drainage Plan, the existing drainage conditions at the permit boundary, will not be adversely altered by the proposed development.

For the proposed expansion, the final cover system will include erosion control structures to effectively minimize erosion of final cover soils. The proposed drainage system also includes a perimeter channel system and detention ponds that will convey stormwater collected from the landfill area to the western portion of the site. The perimeter channels have been designed to carry the 25-year storm event to the detention ponds. The detention ponds have been designed to release the collected stormwater at a rate that is consistent with the existing permitted drainage conditions.

The site is designed to prevent discharge of pollutants into waters of the state or waters of the United States, as defined by the Texas Water Code and the Federal Clean Water Act, respectively. The Itasca Landfill is subject to TCEQ's storm water permit requirements. A copy of the TPDES permit is included in Appendix I/II G. Surface water monitoring will be conducted consistent with TPDES requirements. Given the above, the applicant understands and is in full compliance with TPDES under the Clean Water Act, Section 402 as amended.

3.3 Perimeter Drainage System

The stormwater controls for the landfill have been designed consistent with the TCEQ regulations for Type I MSW landfills. The runoff/runoff stormwater controls have been designed for a 25-year storm event. These include drainage controls for the final cover, perimeter drainage channels, culverts, and detention ponds. Details for the perimeter drainage system and associated calculations are included in Part III, Appendix III F-B.

The drainage system is detailed in Part III, Drawing III F.1 – Drainage Structure Plan. Drainage from the landfill itself is directed through a system of swales, chutes, and perimeter channels to the stormwater detention ponds. The detention ponds and pond outlet structures are detailed in Part III, Appendix III F – Surface Water Drainage Plan.

perimeter of the overliner area, as well as to sumps located in the Subtitle D area. The overliner system is described below, with layers listed from top to bottom.

**Table III-2
Overliner System Components**

Standard Subtitle D Composite Liner System
24-inch-thick Protective Cover Layer
Drainage Geocomposite Leachate Collection Layer
Textured 40-mil LLDPE Geomembrane
Geosynthetic Clay Liner (GCL)

The proposed overliner system design and details are also summarized in Appendix IIIA – Landfill Unit Design Information. The Point of Compliance (POC) Demonstration is included in Appendix IIIB. The purpose of the POC demonstration is to demonstrate that the proposed waste containment system design will meet the waste containment system requirements specified in §330.331(a) by showing that the predicted concentrations of selected leachate chemical constituents do not exceed maximum contaminant levels (as listed in Table 2 in §330.331(a)(1)) in the uppermost aquifer at the POC. The waste containment system design includes the overliner system, and a slurry wall that will be was constructed around the perimeter of the pre-Subtitle D area as shown on Drawing A.16 in Appendix IIIA-A, and a leachate removal system that is discussed in Section 4.2 of Appendix IIIA.

4.3.3 Leachate Collection System

An LCS has been designed to remove leachate from the Subtitle D areas of the landfill (including the overliner). The LCS layout is shown on Drawing A.1 – Excavation Plan in Appendix IIIA-A. Design of the proposed LCS and a demonstration of the adequacy of the existing LCS is discussed in Part III, Appendix IIIC – Leachate and Contaminated Water Management Plan. LCS details are provided in Part III, Appendix IIIA – Landfill Unit Design Information. Information regarding materials and construction quality assurance are included in Part III, Appendix IIID – Liner Quality Control Plan (Section 3.6).

4.3.4 Final Cover System

The final cover system includes a composite final cover system and an existing alternative soil final cover system. The final cover systems will provide a low maintenance cover, protect against erosion, reduce rainfall percolation through the cover system, and subsequently minimize leachate generation with the landfill. As depicted on Parts I/II, Drawing I/IIA.8 – Landfill Completion Plan, a maximum of 4 percent topslopes and 4H:1V sideslopes are provided to minimize erosion and facilitate drainage of the landfill. Final cover will be constructed over the existing pre-Subtitle D and Subtitle D waste disposal areas. The final cover system is described in the following table with layers listed from top to bottom.

on a generation rate of five pounds per capita per day and applied to situations involving solid waste not necessarily generated by individuals.” Based on this definition, the population equivalent for the average waste stream over the active life of the site (29.3 25.8 years – refer to Appendix IIIN) was calculated as follows:

$$\frac{(1,073,358,960,388^1 \text{ tons/year}) \times (2,000 \text{ pounds/ton})}{(5 \text{ pounds/person/day}) \times (365 \text{ days/year})} = 1,176,283 \text{ } 1,052,480 \text{ persons}$$

¹ Average yearly waste inflow (based on a 286-day operating year) was calculated using the average daily waste inflow rate over the life of the site (3,753 3,358 tons/day x 286 days/year = 1,073,358 960,388 tons/year). Refer to Appendix IIIN for more information.

The major classifications of solid waste to be accepted by this facility for disposal include residential and commercial MSW. Such waste consists of household wastes, yard waste, commercial waste, construction-demolition waste, and special wastes as authorized by the TCEQ. Consistent with Title 30 TAC §330.15, the site will not accept liquid wastes, regulated hazardous wastes, prohibited PCBs, infectious medical wastes, or other wastes prohibited by TCEQ regulations. Waste classifications are provided in Parts I/II, Section 2.1.2 – Waste Acceptance Plan.

4.5 Typical Unit Cross-Sections (§§330.63(d)(4)(E) and (F))

Typical unit cross-sections are included in Appendix IIIA-B. The cross-sections are developed consistent with the requirements of §330.63(d)(4)(E) and (F).

4.6 Waste Relocation Plan

Existing waste within the inactive MSW unit located in the northeast portion of the site and the historical waste fill area located north of the current fill area will be relocated to the main disposal area within the Camelot Landfill. The general sequence of development of the landfill is shown on Parts I/II, Appendix I/IIA, Drawing I/IIA.4 through Drawing I/IIA.7. As shown on Drawing I/IIA.5, the waste relocation will occur for the historic waste fill area within six months of issuance of Permit MSW-1312B and waste in the inactive waste unit will be relocated prior to the development of Cell 12. The waste removal procedure is discussed in Part IV – SOP, Section 4.25.

As discussed in Parts I/II, Section 3.1, the limits of the historic waste fill associated with the 102.58-acre tract is shown on Figure I/II-3.1 in Parts I/II. The estimated limits is based on site topography and visual observations made during a July 2011 site visit. There are no drawings in the record for this permit that show the historic waste fill area. There is also no record that final cover was placed on this area; however, the historic waste fill area does include a soil cover that is vegetated. After the waste from this area is relocated, compacted soil backfill will be placed, if needed, to achieve the final detention pond grades shown on the drawings in Appendix IIIF.

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
APPENDIX IIIA
LANDFILL UNIT DESIGN INFORMATION**

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised December 2013

Revised April 2014

Revised October 2014

Revised October 2016



Prepared by

Weaver Boos Consultants, LLC–Southwest
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817-735-9770

WBC Project No. 1339-351-11-02-6B.1

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CONTENTS (Continued)

APPENDIX IIIA-B

Landfill Unit Cross Sections

- DRAWING B.1 – Typical Section Site Plan
- DRAWING B.2 – Landfill Completion Plan
- DRAWING B.3 – Excavation/Overliner Plan
- DRAWING B.4 – Typical Section A
- DRAWING B.5 – Typical Section B
- DRAWING B.6 – Typical Section C
- DRAWING B.7 – Typical Section D
- DRAWING B.8 – Typical Section E
- DRAWING B.9 – Typical Section F
- DRAWING B.10 – Typical Section G
- DRAWING B.11 – Typical Section H



APPENDIX IIIA-C

Construction Quality Assurance Plan for the Slurry Wall

**Table IIIA-2
Existing Liner System Components**

Cells 1, 2, 4B, and 5	Cells 3, 4A, 8, and 9A
24-inch-thick Soil Protective Cover	12-inch-thick Soil Protective Cover plus 12-inch-thick Tire Chip Layer
Drainage Geocomposite Leachate Collection System Layer	Drainage Geocomposite Leachate Collection System Layer
60-mil HDPE Geomembrane Liner	60-mil HDPE Geomembrane Liner
2-foot-thick CCL	2-foot-thick CCL

The existing composite liner systems include a hydrostatic pressure relief system, as discussed in the LQCP (Appendix IIID).

The liner systems for the pre-Subtitle D areas vary (e.g., the pre-Subtitle D area includes in-situ and 3-foot-thick compacted clay liners). Refer to Parts I/II, Section 3.2.1 for additional information regarding the existing pre-Subtitle D liner system.

The impact of differential settlement on the performance of the currently constructed leachate collection systems in the Subtitle D areas is analyzed in Appendix IIIJ-B and summarized in Table IIIA-3.

**Table IIIA-3
Leachate Collection Layer Analysis Summary
for the Developed Subtitle D Areas**

Cell	Design Slope between Cell Ridgeline and Leachate Collection Pipe (percent)	Design Slope of Leachate Collection Pipe (percent)	Post-Settlement Slope between Cell Ridgeline and Leachate Collection Pipe (percent)	Post-Settlement Slope of Leachate Collection Pipe (percent)
1, 2, 4B, 5	1.17	0.50	1.16 1.19	0.44 0.35
3, 4A, 8, 9A	1.17	0.50	1.16 1.19	0.44 0.35

As shown, the slope between (1) the cell ridgeline and the leachate collection pipe and (2) the slope of the leachate collection pipe from the upstream portion of the cell to the sump is reduced by an insignificant amount due to the development of the landfill. A demonstration that the existing leachate collection system will continue to function in a manner that meets all regulatory requirements is included in Appendix IIIC.

4.0 Overliner System for the Pre-Subtitle D Area (Cells O1 through O6)

4.1 Overliner Design

The proposed overliner system for the pre-Subtitle D area of the landfill has been designed consistent with the requirements listed in Title 30 TAC §330.331(a)(1). The

proposed system is designed to convey leachate generated over the existing pre-Subtitle D area to leachate collection sumps located along the perimeter of the overliner area, as well as to sumps located in the Subtitle D area. The proposed system is described in Table IIIA-4.

The proposed top of overliner plan is shown on Drawing A.2 in Appendix IIIA-A. Details for the proposed overliner system are presented on Drawings A.9 through A.12 in Appendix IIIA-A. Material specifications, construction, and testing requirements for the proposed overliner system are provided in Appendix IIID – LQCP.

The design of the proposed overliner system is presented in Appendix IIIB – Overliner Point of Compliance Demonstration. The purpose of the POC demonstration is to demonstrate that the proposed waste containment system design will meet the POC requirements specified in §330.331(a) by showing that the predicted concentrations of selected leachate chemical constituents do not exceed maximum contaminant levels (as listed in Table 1 in §330.331(a)(1)) in the uppermost aquifer at the POC. The waste containment system design includes the overliner system and a slurry wall ~~that will be~~ constructed around the perimeter of the pre-Subtitle D area (refer to Section 5.0 for more information on the ~~proposed~~ slurry wall).

Additionally, the demonstration discussed in Section 5 of Appendix IIIB shows that the proposed overliner system, which includes a GCL/40-mil LLDPE FML/leachate collection system/protective cover, will result in a greater level of protection than the composite liner specified in Title 30 TAC §330.331(a)(2) and §330.331(b). As noted in Title 30 TAC §330.331, a point of compliance demonstration would not be needed if the prescriptive overliner system listed in Title 30 TAC §330.331(a)(2) was used (note that the prescriptive liner just replaces the GCL with 2 feet of clay). As noted in Appendix IIIB, the selected overliner system that includes a GCL not only creates a more effective hydraulic barrier, it also has the ability to withstand differential settlement better than a compacted clay liner. Furthermore, Section 6 of Appendix IIIB demonstrates that the overliner has been added to the solid waste containment system to provide for a very conservative design. Appendix IIIB includes a POC demonstration that shows the site design would meet the POC criteria specified in Title 30 TAC §330.331(a)(1), even without the installation of the overliner system.

- The leachate/condensate level in each LFG extraction well located in the pre-Subtitle D area will be monitored at least once per year.
- If the leachate/condensate level in the extraction well is more than 3 feet above the bottom of the extraction well, then a pump will be used to remove the collected leachate/condensate. The pumps will be rotated, as needed, to remove leachate/condensate in the extraction wells.
- The extracted leachate/condensate will be conveyed to a temporary storage tank or to the on-site storage tank before being discharged to a POTW, consistent with Appendix III C – Leachate and Contaminated Water Management Plan.
- Records of the leachate/condensate level monitoring and the volume of leachate/condensate removed from each well per year will be maintained in the Site Operating Record.

Once the overliner is constructed, it is anticipated that the leachate generation in the pre-Subtitle D area below the overliner will become negligible. At this point, the site may request authorization from the TCEQ to discontinue monitoring and pumping of the pre-Subtitle D extraction wells. The leachate/condensate removal will continue until written approval is obtained from TCEQ.

4.2.2 Dedicated Pre-Subtitle D Area Leachate Removal Wells

To minimize buildup of leachate in the bottom of the landfill, dedicated leachate removal wells (LRW) ~~will be~~ ~~have been~~ installed in the pre-Subtitle D area. These pre-Subtitle D area leachate removal wells were authorized by the TCEQ in September 2014 per a permit modification to TCEQ Permit No. MSW-1312A titled, “Pre-Subtitle D Area Leachate Removal Well Installation.” The installation criteria included in the above referenced modification is reproduced in this section. ~~Following installation, a construction report was submitted to TCEQ in June 2015.~~ The operating criteria discussed below is different than the criteria listed in the September 2014 permit modification. Under TCEQ Permit No. MSW-1312B, all ten of the pre-Subtitle D area leachate removal wells will be operated during the life of the site and nine of them will be operated during the postclosure period (under TCEQ Permit No. MSW-1312A, these wells were to be decommissioned at closure).

As shown on Drawing A.22, 10 leachate removal wells ~~will be~~ ~~have been~~ installed to remove leachate from the pre-Subtitle D area. Typical leachate removal well details are shown on Drawing A.12A. As shown on Drawings A.22 and A.12A, the following criteria ~~will be~~ ~~was~~ used to install the leachate removal wells.

- The leachate removal wells shall be installed at the locations shown on Drawing A.22, which are outside the areas shown as Excavated & Recompacted Zones on Attachment 25 of the August 1993 Soil and Liner Evaluation Report (SLER) prepared by Reed Engineering), and the September 1991 SLER (prepared by Reed Engineering). As long as they remain outside such areas, the locations may be adjusted up to 50 feet to facilitate installation and avoid obstacles that would make installation difficult.
- During drilling for a leachate removal well, if material identified as recompacted shale is encountered below the bottom of waste, drilling shall stop and the well shall be completed at that depth (refer to Drawing A.12A).

Leachate removal wells LRW-1 through LRW-9 (shown on Drawing A.22) ~~will be~~ ~~were~~ installed within the existing final cover. These wells will be operated during the life of the site and the postclosure period. Leachate removal well LRW-10 (shown on Drawing A.22) ~~will be~~ ~~was~~ installed within the future overliner area and will be decommissioned prior to overliner area construction.

The leachate removal wells will be operated following the procedure listed below.

- The leachate level in each LRW will be monitored once per week and documented in the Site Operating Record (refer to Part IV – SOP, Section 4.23).
- As shown on Drawing A.12A, a leachate removal pump will be placed in each well to remove any collected leachate. The pumps will be used to remove the collected leachate if the leachate level in the LRW is more than 3 feet above the bottom of the LRW.
- Leachate sensing floats, transducers, or an equivalent level monitoring device will be used to automatically activate the pumps. The pumps' outlet hoses will be connected to a forcemain that will convey leachate to the aboveground leachate storage tank. The dual-contained forcemain (either a separate forcemain or the LFG condensate forcemain) is shown on Drawings A.20 and A.22.
- The extracted leachate will be conveyed to the on-site leachate storage tank before being discharged to a POTW, consistent with procedures listed in the Leachate and Contaminated Water Plan included in Appendix III C.

5.0 Slurry Wall Design

A slurry wall, or soil bentonite cutoff wall, is included as a component of the waste containment system design. The slurry wall will be constructed following the schedule included in a permit modification titled, "Permit Modification and Correction Plan Revision Slurry Wall Installation" and submitted to TCEQ in December 2012 under TCEQ Permit No. MSW-1312A. This modification was approved by the TCEQ in September 2014. ~~If TCEQ Permit No. MSW-1312B is issued prior to the construction of the slurry wall, then the slurry wall will be constructed under TCEQ Permit No. MSW-1312B. The slurry wall CQA plan is included in Appendix IIIA-C and~~ The slurry wall design is provided in Appendix IIIA-A. The extent of the slurry wall is shown on Drawing A.16. As shown, the slurry wall extends around the southern and eastern perimeter of the pre-Subtitle D area. The slurry wall will be is keyed 3 feet into the unweathered shale stratum as shown on Drawings A.17, A.18, and A.19, and will provides an additional hydraulic barrier between the pre-Subtitle D area and groundwater. As shown on Drawing A.19, the slurry wall backfill will have has a permeability of no more than 1×10^{-7} cm/s. Since the slurry wall will be was constructed prior to the development of Cell 13, a detail that shows the tie-in between the Cell 13 sidewall liner and the slurry wall is shown on Drawing A.19a. ~~Appendix IIIA-C Construction Quality Assurance Plan for the Slurry Wall includes the construction quality assurance activities associated with the construction of the slurry wall.~~

Slurry walls are commonly used to control groundwater movement. The major characteristics of slurry wall construction are the use of a bentonite and water slurry during excavation to support the trench excavation without the use of other lateral supports such as shoring. Slurry walls are built by excavating a narrow trench, which in this case will be 3 feet wide, while pumping slurry into the trench and maintaining its level at or near the top of the trench during the excavation. The trench is extended to key into the aquitard material (i.e., the unweathered shale) to form a bottom seal. The proposed slurry wall will be has been keyed a minimum of 3 feet into the aquiclude below the alluvial stratum.

Bentonite clay is a montmorillonite clay and the most common amendment in soil-bentonite slurry walls. Bentonite has the ability to swell as much as 20 times its volume upon contact with water. The slurry trench construction method is a proven method to construct a barrier wall. The soil-bentonite trench technique has been in use in the United States for over 25 years. After the trench has been excavated using a bentonite slurry, more slurry is mixed with the soil adjacent to the trench. A bulldozer and/or hydraulic excavator is used to work the materials to a

**CAMELOT LANDFILL
CITY OF LEWISVILLE, DENTON COUNTY
TCEQ PERMIT NO. MSW-1312B**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
APPENDIX IIIA-A
LINER, OVERLINER, AND FINAL COVER
SYSTEM DETAILS**

Prepared for

City of Farmers Branch

March 2012

Revised December 2012

Revised August 2013

Revised December 2013

Revised June 2014

Revised October 2014

Revised October 2016

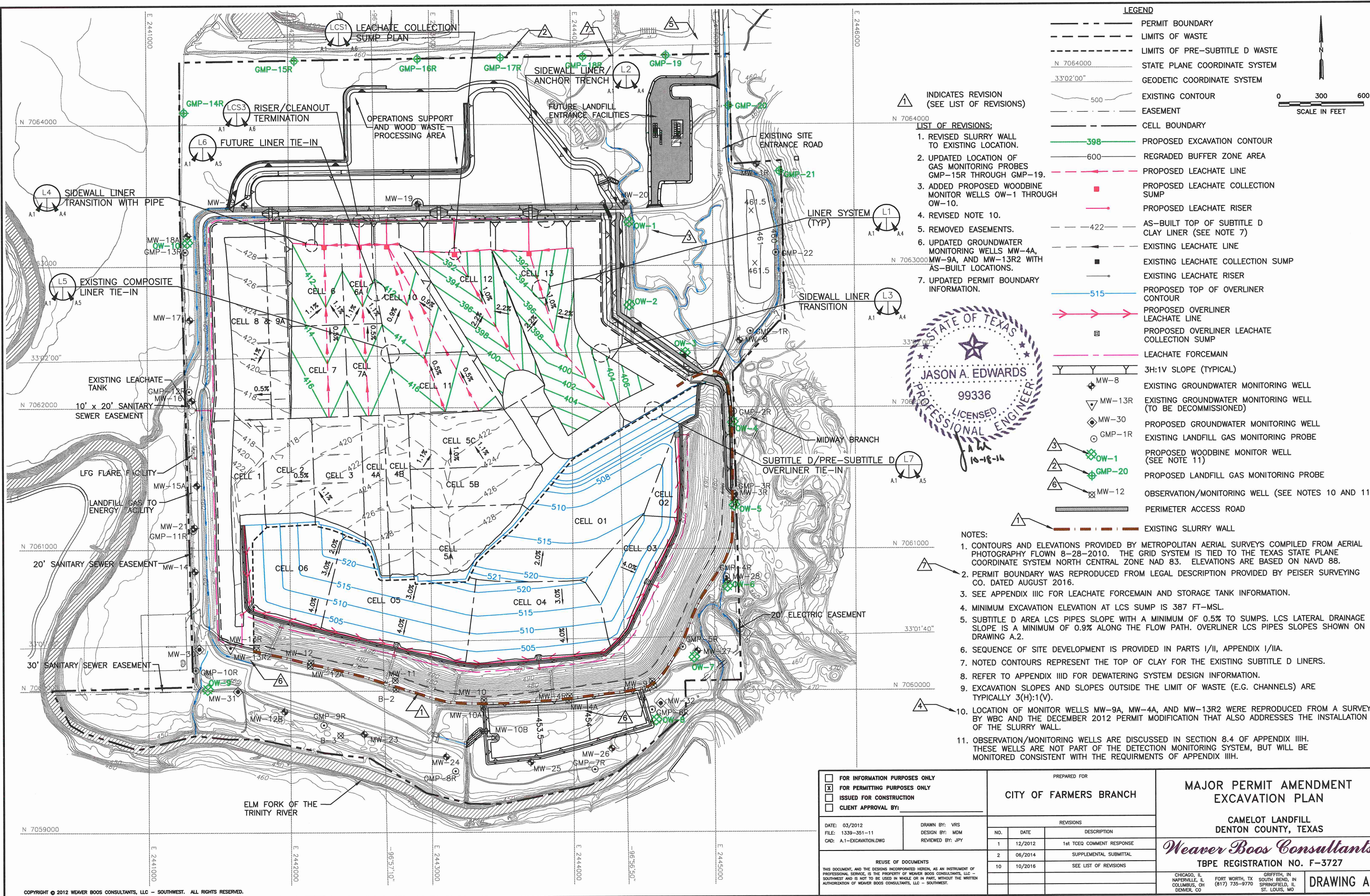


Prepared by

Weaver Boos Consultants, LLC–Southwest
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
817-735-9770

WBC Project No. 1339-351-11-02-6B.1

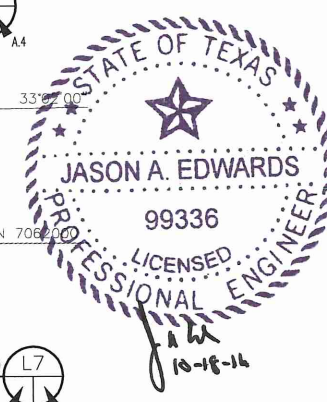
This document is intended for permitting purposes only.



LEGEND

- PERMIT BOUNDARY
- LIMITS OF WASTE
- LIMITS OF PRE-SUBTITLE D WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- EASEMENT
- CELL BOUNDARY
- 398 PROPOSED EXCAVATION CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- PROPOSED LEACHATE LINE
- PROPOSED LEACHATE COLLECTION SUMP
- PROPOSED LEACHATE RISER
- 422 AS-BUILT TOP OF SUBTITLE D CLAY LINER (SEE NOTE 7)
- EXISTING LEACHATE LINE
- EXISTING LEACHATE COLLECTION SUMP
- EXISTING LEACHATE RISER
- 515 PROPOSED TOP OF OVERLINER CONTOUR
- PROPOSED OVERLINER LEACHATE LINE
- PROPOSED OVERLINER LEACHATE COLLECTION SUMP
- LEACHATE FORCEMAIN
- 3H:1V SLOPE (TYPICAL)
- ◆ MW-8 EXISTING GROUNDWATER MONITORING WELL
- ▽ MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
- ◆ MW-30 PROPOSED GROUNDWATER MONITORING WELL
- GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- ◆ OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 11)
- ◆ GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 10 AND 11)
- PERIMETER ACCESS ROAD
- EXISTING SLURRY WALL

- LIST OF REVISIONS:**
- REVISED SLURRY WALL TO EXISTING LOCATION.
 - UPDATED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
 - ADDED PROPOSED WOODBINE MONITOR WELLS OW-1 THROUGH OW-10.
 - REVISED NOTE 10.
 - REMOVED EASEMENTS.
 - UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
 - UPDATED PERMIT BOUNDARY INFORMATION.

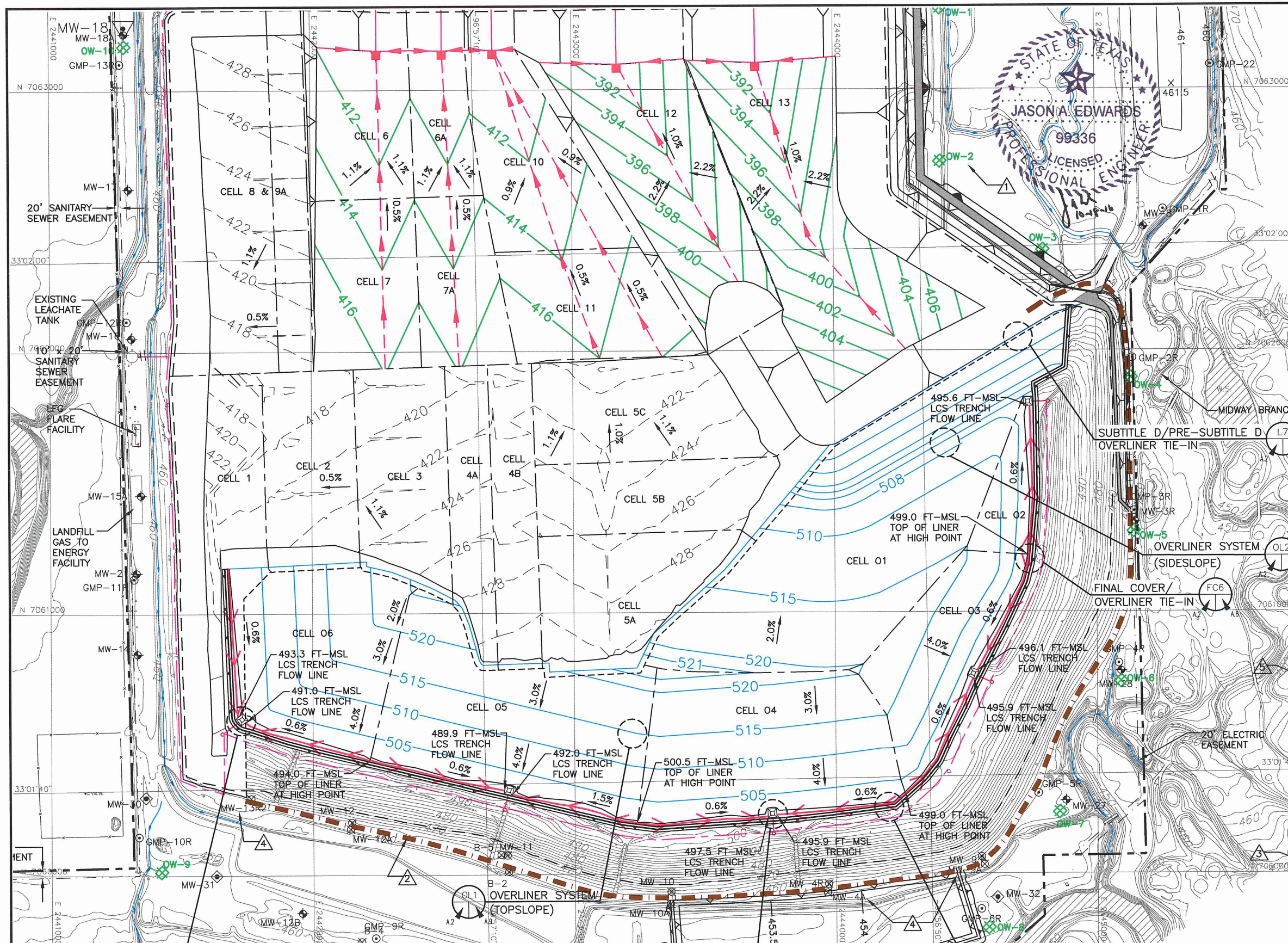


- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 - SEE APPENDIX III C FOR LEACHATE FORCEMAIN AND STORAGE TANK INFORMATION.
 - MINIMUM EXCAVATION ELEVATION AT LCS SUMP IS 387 FT-MSL.
 - SUBTITLE D AREA LCS PIPES SLOPE WITH A MINIMUM OF 0.5% TO SUMPS. LCS LATERAL DRAINAGE SLOPE IS A MINIMUM OF 0.9% ALONG THE FLOW PATH. OVERLINER LCS PIPES SLOPES SHOWN ON DRAWING A.2.
 - SEQUENCE OF SITE DEVELOPMENT IS PROVIDED IN PARTS I/II, APPENDIX I/IIA.
 - NOTED CONTOURS REPRESENT THE TOP OF CLAY FOR THE EXISTING SUBTITLE D LINERS.
 - REFER TO APPENDIX III D FOR DEWATERING SYSTEM DESIGN INFORMATION.
 - EXCAVATION SLOPES AND SLOPES OUTSIDE THE LIMIT OF WASTE (E.G. CHANNELS) ARE TYPICALLY 3(H):1(V).
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.

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DATE: 03/2012 FILE: 1339-351-11 CAD: A1-EXCAVATION.DWG		DRAWN BY: VRS DESIGN BY: MDM REVIEWED BY: JPY		REVISIONS		
				NO.	DATE	DESCRIPTION
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				2	06/2014	SUPPLEMENTAL SUBMITTAL
				10	10/2016	SEE LIST OF REVISIONS
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				TBPE REGISTRATION NO. F-3727 DRAWING A.1		

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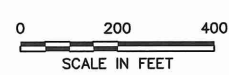
LEGEND

- PERMIT BOUNDARY
- PROPOSED LIMITS OF WASTE
- LIMITS OF PRE-SUBTITLE D WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- EASEMENT
- CELL BOUNDARY
- 398--- PROPOSED EXCAVATION CONTOUR
- PROPOSED LEACHATE LINE
- PROPOSED LEACHATE COLLECTION SUMP
- PROPOSED LEACHATE RISER
- 422--- AS-BUILT TOP OF SUBTITLE D CLAY LINER (SEE NOTE 7)
- EXISTING LEACHATE LINE
- EXISTING LEACHATE COLLECTION SUMP
- EXISTING LEACHATE RISER
- 515--- PROPOSED TOP OF OVERLINER CONTOUR
- PROPOSED OVERLINER LEACHATE LINE
- PROPOSED OVERLINER LEACHATE COLLECTION SUMP
- LEACHATE FORCEMAIN
- ◆ MW-8 EXISTING GROUNDWATER MONITORING WELL
- ◆ MW-30 PROPOSED GROUNDWATER MONITORING WELL
- ◆ GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- ◆ OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 11)
- ◆ MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 10 AND 11)
- EXISTING SLURRY WALL
- 600 REGRADED BUFFER ZONE AREA
- ▲ INDICATES REVISION (SEE LIST OF REVISIONS)

- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 - SEE APPENDIX III C FOR LEACHATE FORCEMAIN AND STORAGE TANK INFORMATION.
 - MINIMUM EXCAVATION ELEVATION AT LCS SUMP IS 387 FT-MSL.
 - SUBTITLE D AREA LCS PIPES SLOPE WITH A MINIMUM OF 0.5% TO SUMPS. LCS LATERAL DRAINAGE SLOPE IS A MINIMUM OF 0.9% ALONG THE FLOW PATH. OVERLINER LCS PIPES SLOPE WITH A MINIMUM OF 0.6%.
 - SEQUENCE OF SITE DEVELOPMENT IS PROVIDED IN PARTS I/II, APPENDIX I/IIA.
 - NOTED CONTOURS REPRESENT THE TOP OF CLAY FOR THE EXISTING SUBTITLE D LINERS.
 - REFER TO APPENDIX III D FOR DEWATERING SYSTEM DESIGN INFORMATION.
 - REFER TO APPENDIX III J FOR OVERLINER LEACHATE COLLECTION PIPE PROFILES.
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX III H. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX III H.

TYPICAL OVERLINER LEACHATE COLLECTION SUMP PLAN

- LIST OF REVISIONS:**
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
 - REVISED SLURRY WALL TO EXISTING LOCATION.
 - REVISED NOTE 10.
 - UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
 - UPDATED PERMIT BOUNDARY INFORMATION.



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REVISIONS		
NO.	DATE	DESCRIPTION
1	12/2012	1st TCEQ COMMENT RESPONSE
2	06/2014	SUPPLEMENTAL SUBMITTAL
10	10/2016	SEE LIST OF REVISIONS

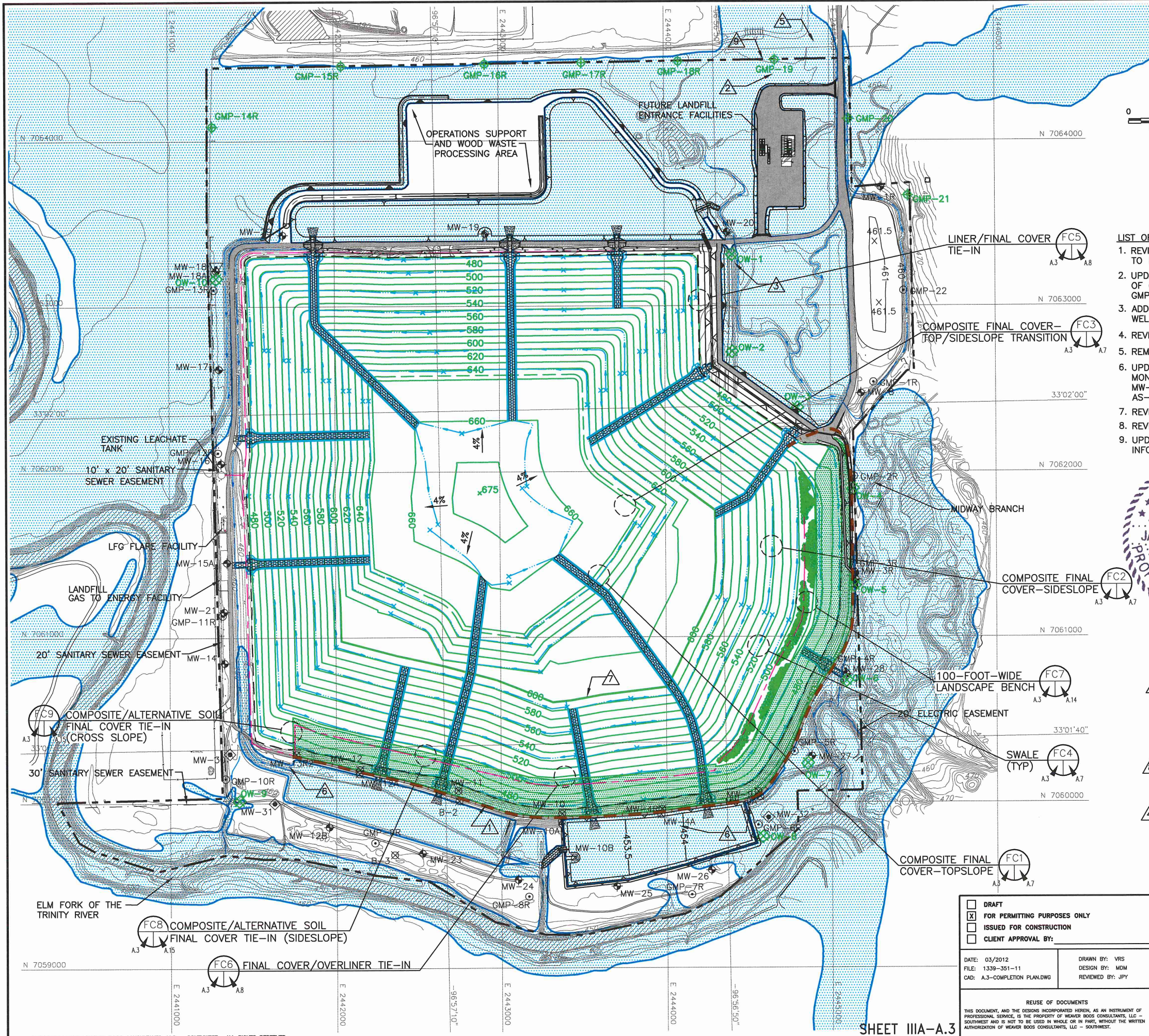
**MAJOR PERMIT AMENDMENT
OVERLINER PLAN**

 CAMELOT LANDFILL
DENTON COUNTY, TEXAS

Weaver Boos Consultants
 TBPE REGISTRATION NO. F-3727

CHICAGO, IL FORT WORTH, TX GRIFFITH, IN
 MAPERVILLE, IL COLUMBIUS, OH SOUTH BEND, IN
 DENVER, CO (817) 735-9770 SPRINGFIELD, IL ST. LOUIS, MO

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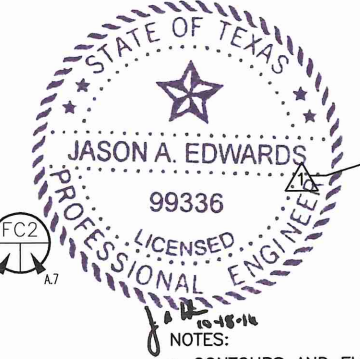


LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- - - LIMIT OF WASTE
- N 7064000 STATE PLANE COORDINATE SYSTEM
- 33°02'00" GEODETIC COORDINATE SYSTEM
- 500 EXISTING CONTOUR
- 600 FINAL COVER CONTOUR
- 600 REGRADED BUFFER ZONE AREA
- - - EASEMENT
- DRAINAGE LETDOWN
- DRAINAGE SWALE
- MW-8 EXISTING GROUNDWATER MONITORING WELL
- MW-30 PROPOSED GROUNDWATER MONITORING WELL
- GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
- GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
- MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 8 AND 9)
- OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 9)
- PROPOSED LEACHATE FORCEMAIN
- EXISTING FENCE
- LANDSCAPE BENCH
- EXISTING ALTERNATIVE SOIL FINAL COVER AREA
- 100-YEAR FLOODPLAIN (SEE NOTE 6)
- PERIMETER ACCESS ROAD
- EXISTING SLURRY WALL
- △ INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED PROPOSED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 8.
- REMOVED EASEMENTS.
- UPDATED GROUNDWATER MONITORING WELLS MW-4A, MW-9A, AND MW-13R2 WITH AS-BUILT LOCATIONS.
- REVISED FINAL COVER CONTOURS.
- REVISED NOTE 5.
- UPDATED PERMIT BOUNDARY INFORMATION.

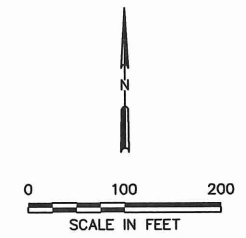
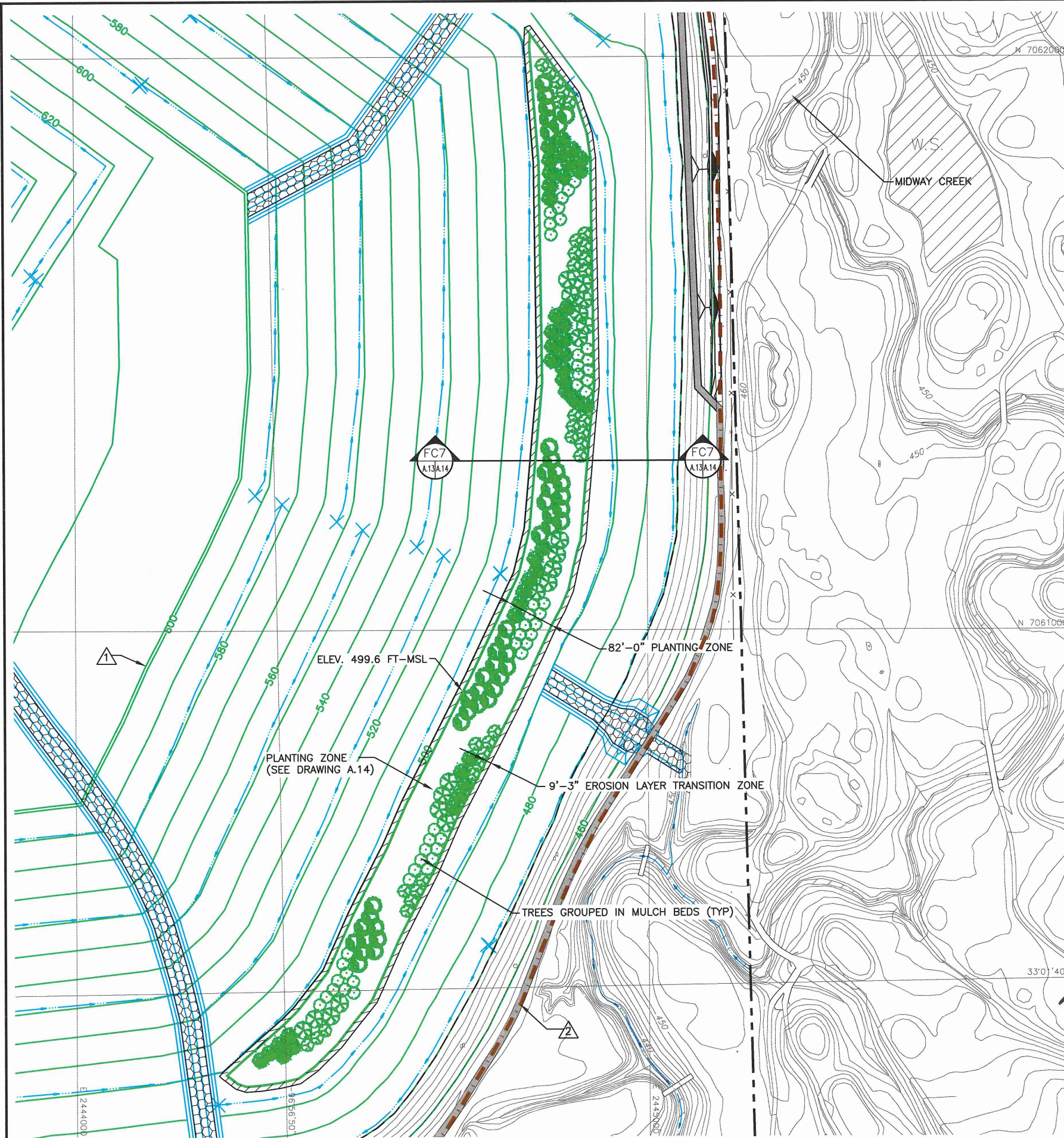


- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 - REFER TO APPENDIX III F FOR POST DEVELOPMENT DRAINAGE INFORMATION.
 - FINAL COVER DETAILS ARE PROVIDED IN APPENDIX IIIA-A-LINER, OVERLINER AND FINAL COVER SYSTEM DETAILS
 - MAXIMUM FINAL COVER ELEVATION: 675 FT-MSL. MAXIMUM WASTE ELEVATION: 671.5 FT-MSL.
 - FLOODPLAIN INFORMATION IS INCLUDED IN APPENDIX III O.
 - REFER TO FIGURE I/II-8.2 IN PARTS I/II FOR INFORMATION ON RED OBSTRUCTION LIGHTS REQUIRED BY THE FAA.
 - LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 - OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX III H. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX III H.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH		MAJOR PERMIT AMENDMENT LANDFILL COMPLETION PLAN	
DATE: 03/2012 FILE: 1339-351-11 CAD: A.3-COMPLETION PLAN.DWG		DRAWN BY: VRS DESIGN BY: MDM REVIEWED BY: JPY		REVISIONS	
				NO.	DATE
				1	12/2012
				2	06/2014
				10	10/2016
					DESCRIPTION
					1st TCEQ COMMENT RESPONSE
					SUPPLEMENTAL SUBMITTAL
					SEE LIST OF REVISIONS
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SHEET IIIA-A.3

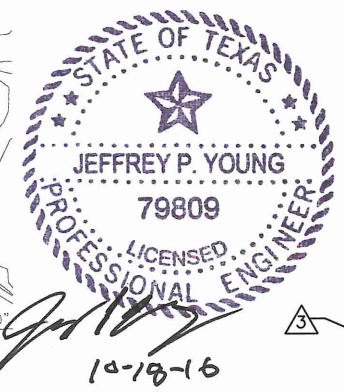
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- LEGEND**
- PERMIT BOUNDARY (SEE NOTE 2)
 - LIMIT OF WASTE
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR
 - 600 FINAL COVER CONTOUR
 - DRAINAGE LETDOWN
 - DRAINAGE SWALE
 - EROSION LAYER TRANSITION ZONE
 - EXISTING SLURRY WALL
 - △ INDICATES REVISION (SEE LIST OF REVISIONS BELOW)

PLANTING PLAN *				
PLANT SYMBOL	QTY. (MIN)	BOTANICAL NAME	COMMON NAME	SPECIFICATION
	45	PINUS TAEDA	LOBLOLLY PINE	12' HT. MIN., PLAND 20' O.C.
	43	PINUS THURBERGII	JAPANESE BLACK PINE	8' HT. MIN., PLAND 20' O.C.
	20	BETULA NIGRA	RIVER BIRCH	14' HT. MIN., PLAND 25' O.C.
	48	ACER BUERGERIANUM	TRIDENT MAPLE	12' HT. MIN., PLAND 20' O.C.
	34	LAGERSTOEMIA INDICA	CRAPEMYRTLE	12' HT. MIN., PLAND 20' O.C.

* REFER TO DRAWINGS A.14 AND A.14a FOR PLANTING DETAILS.



- LIST OF REVISIONS:**
- REVISED FINAL COVER CONTOURS.
 - REVISED SLURRY WALL TO EXISTING LOCATION.
 - UPDATED PERMIT BOUNDARY INFORMATION.

- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 - PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.

<input type="checkbox"/> DRAFT	PREPARED FOR
<input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY	CITY OF FARMERS BRANCH
<input type="checkbox"/> ISSUED FOR CONSTRUCTION	
<input type="checkbox"/> CLIENT APPROVAL BY:	
DATE: 03/2012	DRAWN BY: VRS
FILE: 1339-351-11	DESIGN BY: MDM
CAD: A.13-BENCH PLAN.DWG	REVIEWED BY: JPY
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REVISIONS		
NO.	DATE	DESCRIPTION
1	08/2013	SUPPLEMENTAL SUBMITTAL
10	10/2016	SEE LIST OF REVISIONS

**MAJOR PERMIT AMENDMENT
EAST SIDESLOPE BENCH PLAN**

CAMELOT LANDFILL
DENTON COUNTY, TEXAS

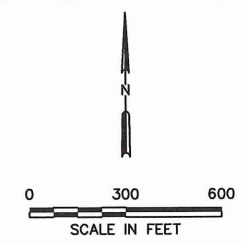
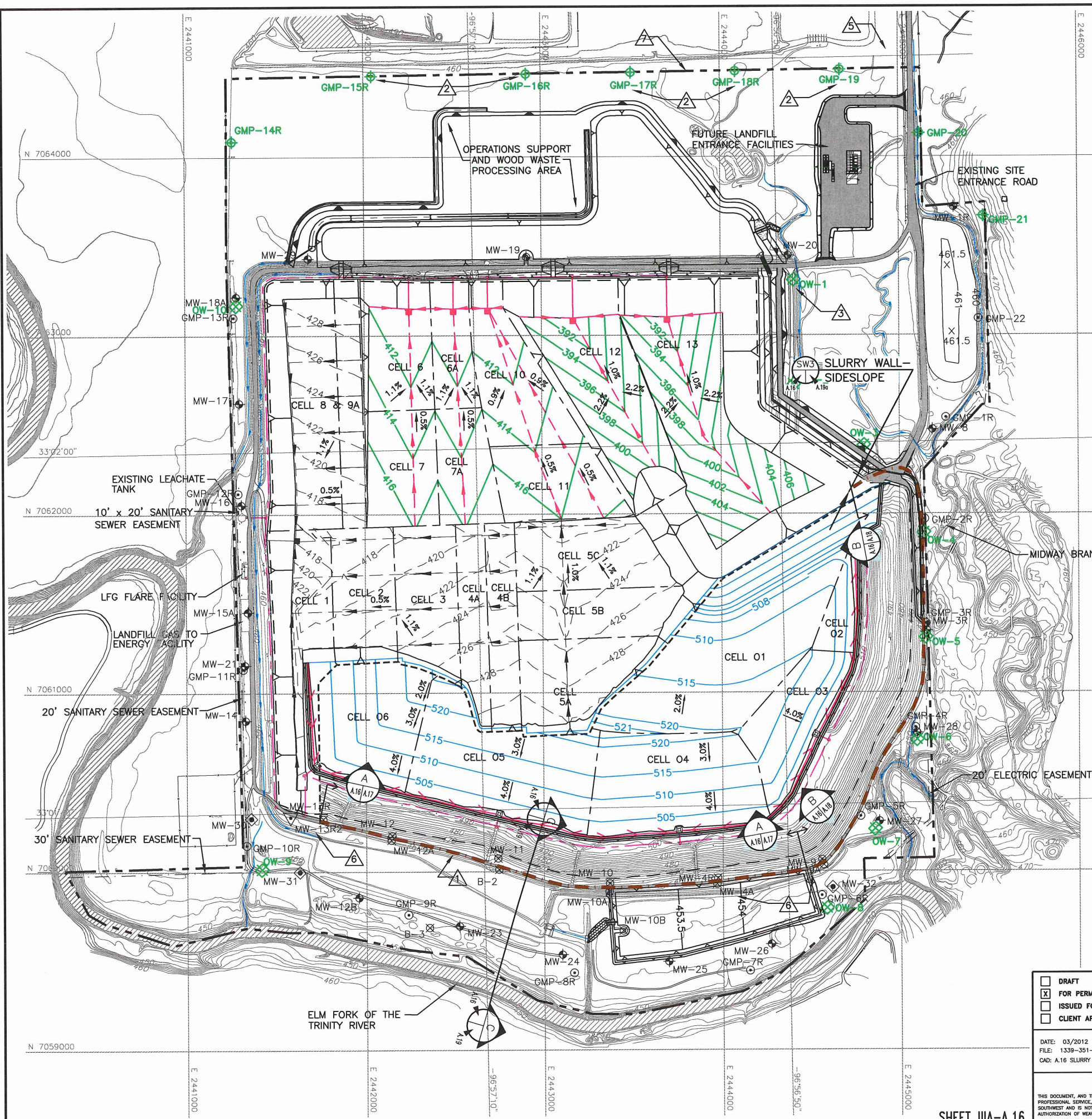
Weaver Boos Consultants
TBPE REGISTRATION NO. F-3727

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COLUMBUS, OH SPRINGFIELD, IL
DENVER, CO ST. LOUIS, MO

SHEET IIIA-A.13

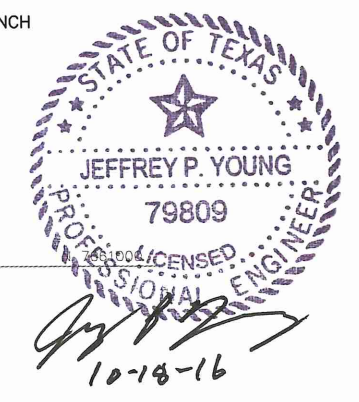
DRAWING A.13

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- LEGEND**
- PERMIT BOUNDARY
 - LIMITS OF WASTE
 - LIMITS OF PRE-SUBTITLE D WASTE
 - N 7064000 STATE PLANE COORDINATE SYSTEM
 - 33°02'00" GEODETIC COORDINATE SYSTEM
 - 500 EXISTING CONTOUR
 - EASEMENT
 - CELL BOUNDARY
 - 398 PROPOSED EXCAVATION CONTOUR
 - 600 REGRADED BUFFER ZONE AREA
 - PROPOSED LEACHATE LINE
 - PROPOSED LEACHATE COLLECTION SUMP
 - PROPOSED LEACHATE RISER
 - 422 AS-BUILT TOP OF SUBTITLE D CLAY LINER (SEE NOTE 7)
 - EXISTING LEACHATE LINE
 - EXISTING LEACHATE COLLECTION SUMP
 - EXISTING LEACHATE RISER
 - 515 PROPOSED TOP OF OVERLINER CONTOUR
 - PROPOSED OVERLINER LEACHATE LINE
 - PROPOSED OVERLINER LEACHATE COLLECTION SUMP
 - LEACHATE FORCEMAIN
 - 3H:1V SLOPE (TYPICAL)
 - ⊕ MW-8 EXISTING GROUNDWATER MONITORING WELL
 - ▽ MW-13R EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
 - ⊕ MW-30 PROPOSED GROUNDWATER MONITORING WELL
 - ⊕ OW-1 PROPOSED WOODBINE MONITOR WELL (SEE NOTE 4)
 - ⊕ GMP-1R EXISTING LANDFILL GAS MONITORING PROBE
 - ⊕ GMP-20 PROPOSED LANDFILL GAS MONITORING PROBE
 - ⊕ MW-12 OBSERVATION/MONITORING WELL (SEE NOTES 3 AND 4)
 - PERIMETER ACCESS ROAD
 - EXISTING SLURRY WALL
 - △ INDICATES REVISION (SEE LIST OF REVISIONS)

- LIST OF REVISIONS:**
1. REVISED SLURRY WALL TO EXISTING LOCATION.
 2. UPDATED LOCATION OF GAS MONITORING PROBES.
 3. ADDED PROPOSED MONITOR WELLS OW-1 THROUGH OW-10.
 4. REVISED NOTE 3.
 5. REMOVED EASEMENTS.
 6. UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
 7. UPDATED PERMIT BOUNDARY INFORMATION.

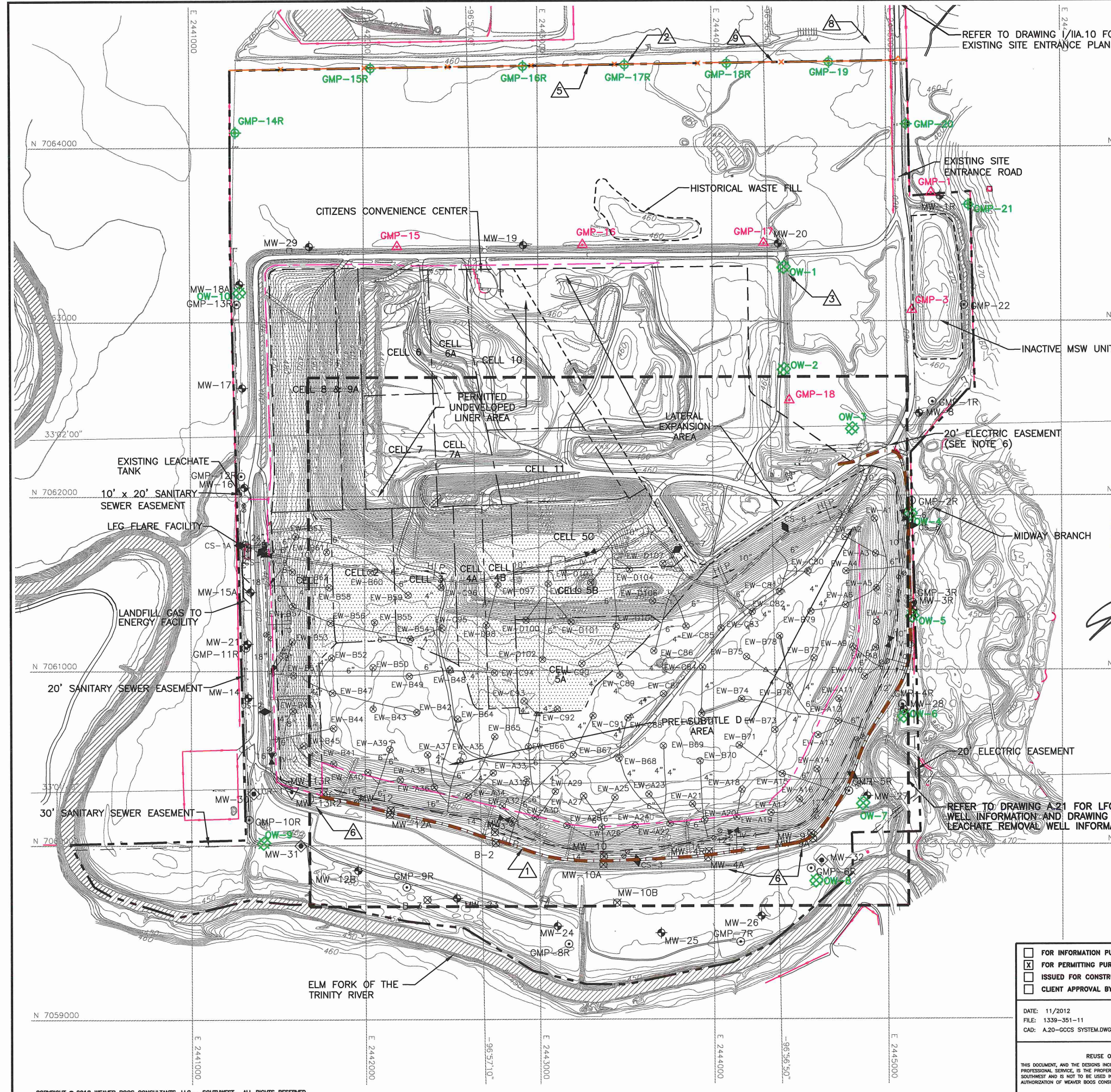


- NOTES:**
1. CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-2010. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83. ELEVATIONS ARE BASED ON NAVD 88.
 2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY PEISER SURVEYING CO. DATED AUGUST 2016.
 3. LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE REPRODUCED FROM A SURVEY BY WBC AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
 4. OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR		CITY OF FARMERS BRANCH MAJOR PERMIT AMENDMENT SLURRY WALL SITE PLAN CAMELOT LANDFILL DENTON COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727 <small>CHICAGO, IL FORT WORTH, TX GRIFFITH, IN MAPERVILLE, IL COLUMBIUS, OH SPRINGFIELD, IL DENVER, CO (817) 735-9770 ST. LOUIS, MO</small>											
	DATE: 03/2012 FILE: 1339-351-11 CAD: A16 SLURRY WALL PLAN.DWG													
DRAWN BY: VRS DESIGN BY: MDM REVIEWED BY: JPY	REVISIONS													
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10	10/2016	SEE LIST OF REVISIONS												

SHEET IIIA-A.16

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REFER TO DRAWING I/IIA.10 FOR EXISTING SITE ENTRANCE PLAN

SCALE IN FEET
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LEGEND

- PERMIT BOUNDARY (SEE NOTE 2)
- AUTHORIZED LIMIT OF WASTE
- PROPOSED LIMIT OF WASTE
- STATE PLANE COORDINATE SYSTEM
- GEODETIC COORDINATE SYSTEM
- EXISTING CONTOUR
- EASEMENT
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER MONITORING WELL (TO BE DECOMMISSIONED)
- PROPOSED GROUNDWATER MONITORING WELL
- EXISTING LANDFILL GAS MONITORING PROBE
- EXISTING LANDFILL GAS MONITORING PROBE (TO BE ABANDONED)
- PROPOSED LANDFILL GAS MONITORING PROBE
- OBSERVATION/MONITORING WELL (SEE NOTES 3 AND 4)
- EXISTING LFG EXTRACTION WELL
- EXISTING SUBTITLE D COMPOSITE LINED AREA
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED LEACHATE FORCEMAIN
- EXISTING SLURRY WALL (SEE NOTE 5)
- EXISTING LFG SYSTEM PIPING
- EXISTING AIR SUPPLY LINE
- EXISTING CONDENSATE FORCEMAIN
- EXISTING CONDENSATE SUMP
- PROPOSED WOODBINE MONITOR WELL (SEE NOTE 4)
- INDICATES REVISION (SEE LIST OF REVISIONS)

LIST OF REVISIONS:

- REVISED SLURRY WALL TO EXISTING LOCATION.
- UPDATED LOCATION OF GAS MONITORING PROBES GMP-15R THROUGH GMP-19.
- ADDED PROPOSED WOODBINE MONITOR WELLS OW-1 THROUGH OW-10.
- REVISED NOTE 5.
- REVISED PROPOSED FENCE LOCATION.
- UPDATED GROUNDWATER MONITORING WELLS WITH AS-BUILT LOCATIONS.
- REVISED NOTE 3.
- REMOVED EASEMENTS.
- UPDATED PERMIT BOUNDARY INFORMATION.

STATE OF TEXAS
JEFFREY P. YOUNG
79809
LICENSED PROFESSIONAL ENGINEER
10-10-16

NOTES:

- CONTOURS AND ELEVATIONS PROVIDED BY METROPOLITAN AERIAL SURVEYS COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 8-28-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983. ELEVATIONS ARE BASED ON NAVD 88.
- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY PIESER SURVEYING CO. DATED AUGUST 2016. THE PERMIT BOUNDARY FOR TCEQ PERMIT NO. MSW-1312A IS SHOWN ON FIGURE I/II-3.1.
- LOCATION OF MONITOR WELLS MW-9A, MW-4A, AND MW-13R2 WERE PRODUCED FROM A SURVEY BY WCG AND THE DECEMBER 2012 PERMIT MODIFICATION THAT ALSO ADDRESSES THE INSTALLATION OF THE SLURRY WALL.
- OBSERVATION/MONITORING WELLS ARE DISCUSSED IN SECTION 8.4 OF APPENDIX IIIH. THESE WELLS ARE NOT PART OF THE DETECTION MONITORING SYSTEM, BUT WILL BE MONITORED CONSISTENT WITH THE REQUIREMENTS OF APPENDIX IIIH.
- THE SLURRY WALL WAS INSTALLED IN 2015 UNDER TCEQ PERMIT NO. 1312A. REFER TO APPENDIX IIIA FOR SLURRY WALL INFORMATION.
- THIS 20-FOOT ELECTRICAL EASEMENT PROVIDES ELECTRICITY TO THE TEMPORARY MAINTENANCE AREA. THE EASEMENT WILL BE ABANDONED PRIOR TO DEVELOPMENT IN THIS AREA.

<input type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:		PREPARED FOR CITY OF FARMERS BRANCH	MAJOR PERMIT AMENDMENT EXISTING GCCS CAMELOT LANDFILL DENTON COUNTY, TEXAS																		
DATE: 11/2012 FILE: 1339-351-11 CAD: A20-GCCS SYSTEM.DWG	DRAWN BY: SRF DESIGN BY: JAE REVIEWED BY: JPY	REVISIONS	Weaver Boos Consultants TBPE REGISTRATION NO. F-3727																		
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