



Texas Commission on Environmental Quality
Correspondence Cover Sheet
Waste Permits Division

Date: 2/11/2026
 Facility Name: Ellis County Landfill
 Permit, Registration, or
 Authorization No.: 1745B

Nature of Submittal:
 Initial
 Deficiency Response to TCEQ Tracking No.: _____
 (from subject line of TCEQ Notice of Deficiency)

Affix a completed Correspondence Cover Sheet to the front of each submission to the Waste Permits Division. Check **one box** to indicate type of correspondence. Call (512) 239-2335 if you have questions.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Communications
Permit (New): <input type="checkbox"/> Landfill <input type="checkbox"/> Processor <input type="checkbox"/> Compost	<input type="checkbox"/> Alternative Daily Cover Status Report
<input type="checkbox"/> Registration Application (New)	<input type="checkbox"/> Closure Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Compost Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Modification with Public Notice	<input type="checkbox"/> Groundwater Corrective Action Report
<input type="checkbox"/> Modification without Public Notice	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Ownership Transfer/Name Change Modification	<input type="checkbox"/> Groundwater Background Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Landfill Gas Corrective Action Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Landfill Gas Monitoring Report
Subchapter T: <input type="checkbox"/> Permit <input type="checkbox"/> Registration	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Soil Boring Plan
Notice of Intent: <input type="checkbox"/> New <input type="checkbox"/> Revision <input type="checkbox"/> Closure	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Other Application:	<input type="checkbox"/> Other Report or Communication:

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Notifications	
<input type="checkbox"/> CCR Registration (New)	<input type="checkbox"/> Extension Request	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Permit Application (New)	<input type="checkbox"/> CfPT Plan/Result	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Permit Renewal	<input type="checkbox"/> CPT Plan/Result	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Post-Closure Order (New)	<input type="checkbox"/> Construction Certification/Report	CCR Notifications:
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Corrective Action Effectiveness Report	<input type="checkbox"/> CCR Closure Care Plan
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Alternative Source Demonstration Report	<input type="checkbox"/> CCR Design Criteria
Class of Permit Modification: <input type="checkbox"/> 1 <input type="checkbox"/> 1ED <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> Groundwater Background Evaluation Report	<input type="checkbox"/> CCR Groundwater Monitoring and Corrective Action Report
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Groundwater Monitoring Report	<input type="checkbox"/> CCR Location Restriction
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Core Monitoring Report	<input type="checkbox"/> CCR Operating Criteria
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Treatability Study	<input type="checkbox"/> CCR Post-closure Care Plan
<input type="checkbox"/> 335.6 Notification	<input type="checkbox"/> Trial Burn Plan/Result	<input type="checkbox"/> Other Report or Notification
<input type="checkbox"/> Other:	<input type="checkbox"/> Unsaturated Zone Monitoring Report	(specify):



Ellis County Landfill - 5703 N IH-45, Ennis, TX 75119
o: (972) 875-5347 republicservices.com

January 29, 2026

Megan Henson
MSW Permits Section Manager
Texas Commission on Environmental Quality
P.O. Box 13087 - MC 124
Austin, Texas 78711-3087

Subject: Municipal Solid Waste – Ellis County
Permit Modification for a Leachate Evaporation Pond
Ellis County Landfill (MSW Permit 1745B)
5703 N Interstate Highway 45, Ennis, Texas
(CN600134985/RN100242460)
CEC Project 352-874

Dear Ms. Henson,

Ellis County Landfill TX, LP (Republic) is pleased to submit this Permit Modification request for the Ellis County Landfill (ECD) located in Ennis, Texas.

The specific change requested in this modification is to allow ECD to add two lined evaporation ponds within the current permit boundary for the disposal of landfill leachate, gas condensate, and contaminated water. The ponds will be constructed as-needed to manage the leachate and condensate being produced at the facility. The ponds are proposed to have a two feet thick re-compacted clay liner and a double layer of 60 mil HDPE liner. Between the two HDPE liners, there will be a geocomposite drainage layer to act as a leak detection system.

This modification proposes revising the following sections of the facility's permit application document:

Part III-Attachment 1 (Site Layout Plan):

1. Insert Figure 1-1A to depict the existing conditions at ECD and show the proposed location of the evaporation ponds.

Part III-Attachment 8 (Cost Estimate for Closure and Post-Closure Care):

1. Revise Section 3 (page 4) to include decommissioning, removal, and cleanup of ponds in scope of closure.
2. Revise Table 1 to include cost estimates for decommissioning, removal, and cleanup of ponds.

Part III-Attachment 15 (Leachate and Contaminated Water Plan):

1. Revise Sections 3.1.2, 3.1.3, and 5 (pages 15-7, 15-8, and 15-11 through 15-14) of the text to discuss evaporation pond construction, inspections, odor management, spill evaluation, cleanup measures, decommissioning, and removal procedures.
2. Insert Figures 15D through 15I to show the proposed location and details of the evaporation ponds.
3. Insert the Leachate Evaporation Pond Inspection Form (Appendix 15E).

Part IV-Site Operating Plan:

1. Revise Section 4.10 (page IV-22) to reference odor management provisions in Attachment 15.

This modification is requested as a notice modification in accordance with 30 TAC §305.70(l) and an updated copy of the adjacent landowners map and list are included as Attachment B. A signed certification for this request is attached (Attachment A) and the required modification fee has been paid and the receipt (Attachment E) is included in this submittal.

Thank you for your assistance with the review of this request and please contact us if you require any additional information.

Sincerely,

Republic Services



Andrea Kotrla
Environmental Manger

cc: Adam Mehevec, P.E. - CEC

Attachments:

- A - Permit Modification Application Form
- B - Landowners Map and List
- C - Redline Version of Documents
- D - Clean Version of Documents
- E - Fee Payment Receipt

ATTACHMENT A
APPLICATION FORMS



Texas Commission on Environmental Quality

Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization

Application Tracking Information

Facility Name: Ellis County Landfill

Permittee or Registrant Name: Ellis County Landfill TX, LP

MSW Authorization Number: 1745B

Initial Submission Date: February 2026

Revision Date: _____

Instructions for completing this form are provided in [form TCEQ-20650-instr](#)¹. If you have questions, contact the Municipal Solid Waste Permits Section by email to mswper@tceq.texas.gov, or by phone at 512-239-2335.

Application Data

1. Submission Type
<input checked="" type="checkbox"/> Initial Submission <input type="checkbox"/> Notice of Deficiency (NOD) Response
2. Authorization Type
<input checked="" type="checkbox"/> Permit <input type="checkbox"/> Registration
3. Application Type
<input checked="" type="checkbox"/> Modification with Public Notice <input type="checkbox"/> Modification without Public Notice
<input type="checkbox"/> Temporary Authorization (TA) <input type="checkbox"/> Modification for Name Change or Transfer
4. Application Fee
Amount
The application fee for a modification or temporary authorization is \$150.
Payment Method
<input type="checkbox"/> Check
<input checked="" type="checkbox"/> Online through ePay portal www3.tceq.texas.gov/epay/
If paid online, enter ePay Trace Number: <u>582EA000707321</u>

¹ www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf

5. Electronic Versions of Application

For modifications that require public notice, TCEQ will publish electronic versions of the applications online. Applicants must provide complete electronic copies of their initial applications, responses to notices of deficiencies, and the final technically complete versions. (Refer to instructions for this form for how to submit electronically.)

6. Party Responsible for Mailing Notice

For modifications that require notice, indicate who will be responsible for mailing notice:

Applicant Agent in Service Consultant

Contact Name: Corey Perkin

Title: _____

Email Address: [REDACTED]

7. Confidential Documents

Does the application contain confidential documents?

Yes No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

8. Facility General Information

Facility Name: Ellis County Landfill

Contact Name: Andrea Kotrla Title: Environmental Manager

MSW Authorization Number (if existing): 1745B

Regulated Entity Reference Number: **RN** 100242460

Physical or Street Address: 5703 N Interstate Highway 45

City: Ennis County: Ellis State: TX Zip Code: 75119

Phone Number: 254-203-0617

Latitude (Decimal Degrees): 32.390793

Longitude (Decimal Degrees): -96.652878

9. Facility Types

Type I Type IV Type V
 Type IAE Type IVAE Type VI

10. Description of the Revisions to the Facility

Provide a brief description of revisions to permit or registration conditions and supporting documents referred to by the permit or registration, and a reference to the specific provisions under which the modification or temporary authorization application is being made. Also, provide an explanation of why the modification or temporary authorization is needed:

Revise Estimate Closure Costs, Leachate and Contaminated Water Plan, and Site Operating Plan to add on-site lined leachate evaporation ponds.

11. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: Ellis County Landfill TX, LP

Customer Reference Number: **CN** 600134985

Contact Name: Andrea Kotrla Title: Environmental Manager

Mailing Address: 911 E State Hwy 121 Business, Suite 201

City: Lewisville County: Denton State: TX Zip Code: 75057

Phone Number: 254-203-0617

Email Address: [REDACTED]

Texas Secretary of State (SOS) Filing Number: _____

Operator (if different from Site Operator)

Name: _____

Customer Reference Number: **CN** _____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____

Email Address: _____

Texas Secretary of State (SOS) Filing Number: _____

Consultant (if applicable)

Firm Name: Civil & Environmental Consultants, Inc.

Consultant Name: Adam Mehevec, P.E.

Texas Board of Professional Engineers Firm Registration Number: F-38

Contact Name: Adam Mehevec, P.E. Title: Vice President

Mailing Address: 1221 S. Mopac Expressway, Suite 350

City: Austin County: Travis State: TX Zip Code: 78746

Phone Number: 512-587-4475

Email Address: [REDACTED]

Agent in Service (required for out-of-state applicants)

Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

12. Ownership Status of the Facility

Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee or Registrant)?

Yes No

If the answer is "No", skip the next question and proceed to signature page.

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

Yes No

If "No", provide the following information for other owners.

Owner Name: N/A

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

Signature Page

Site Operator or Authorized Signatory

I 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.

Name: Clint Dickerson Title: General Manager

Email Address: [REDACTED]

Signature: *Clint Dickerson* Date: 1-29-26

Operator or Principal Executive Officer Designation of Authorized Signatory

To be completed by the operator if the application is signed by an authorized representative for the operator.

I hereby designate _____ 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.

Operator or Principal Executive Officer Name: _____

Email Address: _____

Signature: _____ Date: _____

Notary

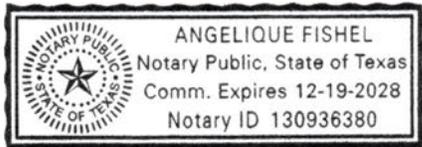
SUBSCRIBED AND SWORN to before me by the said *Clint Dickerson*

On this 29th day of January, 2026

My commission expires on the 19th day of December, 2028

Angelique Fishel

Notary Public in and for
Denton County, Texas



Note: Application Must Bear Signature and Seal of Notary Public

Attachments for Permit or Registration Modification with Public Notice

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Land Ownership Map	B
Landowners List	B
Marked (Redline/Strikeout) Pages	C
Unmarked Revised Pages	D

Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input checked="" type="checkbox"/> TCEQ Core Data Form(s)	A
<input type="checkbox"/> Signatory Authority Delegation	
<input checked="" type="checkbox"/> Fee Payment Receipt	E
<input type="checkbox"/> Confidential Documents	

Attachments for Permit or Registration Modification without Public Notice, or Temporary Authorization

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 3. Required attachments for modifications.

Required Attachments for Modification	Attachment Number
Marked (Redline/Strikeout) Pages	
Unmarked Revised Pages	

Attachments Table 4. Additional attachments for modifications and temporary authorizations, as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> TCEQ Core Data Form(s)	
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	

Attachments for Permit or Registration Name Change or Transfer Modification

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 5. Required attachments.

Required Attachments	Attachment Number
TCEQ Core Data Form(s)	
Property Legal Description	
Property Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Land Ownership List	
Property Owner Affidavit	
Verification of Legal Status	
Evidence of Competency	

Attachments Table 6. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	
<input type="checkbox"/> Final Plat Record of Property	
<input type="checkbox"/> Assumed Name Certificate	

ATTACHMENT B

LANDOWNERS MAP AND LIST



NORTH



LEGEND

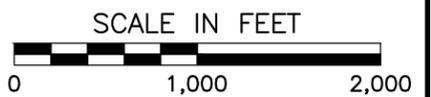
- PERMIT BOUNDARY
- ②④ ADJACENT PARCEL IDENTIFIER

REFERENCES

PARCELS FROM ELLIS COUNTY APPRAISAL DISTRICT; OBTAINED THROUGH THE TXGIO ONLINE DATA PORTAL ON SEPTEMBER 19, 2025.



1-28-2026
*HAND SIGNATURE ON FILE



ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF NC, PLLC. SERVICES IN PUERTO RICO WILL BE PROVIDED BY CEC ENGINEERS & CONSULTANTS, LLC. LANDSCAPE ARCHITECTURE SERVICES IN THE STATE OF OHIO WILL BE PROVIDED BY CEC LANDSCAPE ARCHITECTS, LLC.



1221 S. MoPac Expressway
Suite 350
Austin, TX 78746
Ph: 512.439.0400
www.cecinc.com

Texas Registered
Engineering Firm F-38

REPUBLIC SERVICES
ECD LANDFILL
PERMIT MODIFICATION
SHELBY COUNTY, TEXAS

ADJACENT LANDOWNER MAP

DRAWN BY:	JSC	CHECKED BY:	ATC	APPROVED BY:	*AWM	FIGURE NO.:	1
DATE:	NOVEMBER 2025	DWG SCALE:	1" = 1,000'	PROJECT NO.:	352874		

LANDOWNERS LIST

The following table lists the names and mailing addresses of the adjacent and potentially affected landowners around the ECD Landfill permit boundary. The list is based on the Ellis County Appraisal District records and includes all property owners within 1/4 mile of the site (as of December 2025). Refer to the Figure 1 Land Ownership Map, for location of the properties. The numbering of this list corresponds to the numbers of the Land Ownership Map.

Number	Name	Address
1	USA WASTE SERVICES INC - TEXAS	PO BOX 29246 PHOENIX AR 85038-9246
2	GONZALES PATRICIA ETAL	5133 DOMINICA LN KELLER TX 76244
3	RAMIREZ PRIMO & TERESA	5530 N INTERSTATE HIGHWAY 45 ENNIS TX 75119-0913
4	DAVIS WADE C & JODY F	5590 N INTERSTATE HIGHWAY 45 ENNIS TX 75119-1683
5	MOORE CHERYL L	5650 N INTERSTATE HIGHWAY 45 ENNIS TX 75119
6	HILTON WOODROW L/E	PO BOX 344 WILMER TX 75172-0344
7	ELLIS COUNTY LANDFILL TX LP	PO BOX 29246 PHOENIX AR 85038-9246
8	ROCKIN R LLC	17525 EAST GALE AVE CITY OF INDUSTRY CA 91748
9	M4ENNIS 132 LLC	6899 MARTEL PL FRISCO TX 75035-4854
10	JT CREEK RANCH LLC	PO BOX 355 PALMER TX 75152
11	RAYMOND LARRY	504 RICHARD AVE ENNIS TX 75119-3534
12	GONZALES NORBERTO	419 BLACK JACK RD ENNIS TX 75119-0919
13	MORA ERNESTO	407 BLACK JACK RD ENNIS TX 75119-0919
14	SOUTHARD WILLIAM R & JANNIE M	343 BLACK JACK RD ENNIS TX 75119-0918
15	PARSONS STEPHEN M C/S	273 BLACK JACK RD ENNIS TX 75119-0917
16	HINTON TINA	2438 CYPRESS DR GRAND PRAIRIE TX 75050
17	SAUCEDO JOSEFINA & JOSE	157 BLACK JACK RD ENNIS 75119-0916
18	ONCOR ELECTRIC DELIVERY COMPANY	PO BOX 139100 DALLAS TX 75313
19	RODRIQUEZ JESUS & VIRGINIA ARELLANO SANCHEZ	113 BLACK JACK RD ENNIS TX 75119
20	GOMEZ MARIO & YAZMIN	4861 FM 879 PALMER TX 75152-8172
21	RUBIO MARIA DEL CARMEN	4971 FM 879 PALMER TX 75152-8179
22	SAUCEDO JOSE & ELPIDIA	4921 FM 879 PALMER TX 75152-8179
23	RAMIREZ SERGIO R & MARIA G	4955 GM 879 PALMER TX 75152
24	WATSON MARY K REVOCABLE TRUST	PO BOX 387 ENNIS TX 75120-0398
25	HATCHCOCK FAMILY TRUST	4960 FM 879 ENNIS TX 75152
26	HUNTER DAVID N & HUNTER DANIEL	1400 JACK MCKAY BLVD ENNIS TX 75119-6502
27	STROUD DANNY M	5074 FM 879 PALMER TX 75152-8177

ATTACHMENT C
REDLINED DOCUMENTS

**ECD LANDFILL
ELLIS COUNTY, TEXAS
TCEQ PERMIT NO. MSW-1745B**

PERMIT MODIFICATION

**PART III
ATTACHMENT 8
COST ESTIMATE FOR CLOSURE
AND POSTCLOSURE CARE**

Prepared for

Ellis County Landfill TX, LP

August 2004

Revised January 2006

Revised September 2012

Revised June 2018

Revised November 2019

Revised August 2020

Revised May 2023

Revised May 2024

Revised August 2024

Revised January 2026

Prepared by

SCS Engineers

TBPE Registration No. F-3407

12651 Briar Forest, Suite 205

Houston, Texas 77077

281-293-8494

SCS Project No. 16223052-01

Civil and Environmental Consultants, Inc.

TBPE Registration No. F-38

1221 S. Mopac Expressway, Suite 350

Austin, Texas 78746

CEC Project 352-874



1-28-2026

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**TABLE 1
ECD LANDFILL-CLOSURE COST**

Area Requiring Final Cover ⁴	68.6 ac	Infiltration Layer Thickness	1.5 ft
Composite Topslope Area	11.9 ac	Erosion Layer Thickness	2.0 ft
Composite Sideslope Area	56.7 ac		
Permit Boundary Area	352.6 ac		

Description	Quantity	Unit ¹	2004	2024	2025	2025	2024
			Unit Cost	Inflation Factor	Inflation Factor ²		
1.0 ENGINEERING							
1.1 Topographic Survey	68.6	AC	\$ 69	4.579	1.617	\$ 7,655	\$ 7,475
1.2 Boundary Survey for Affidavit	352.6	AC	\$ 37	4.579	1.617	\$ 21,098	\$ 20,603
1.3 Site Evaluation	68.6	AC	\$ 106	4.579	1.617	\$ 11,759	\$ 11,484
1.4 Development of Plans	68.6	AC	\$ 343	4.579	1.617	\$ 38,051	\$ 37,160
Subtotal						\$ 78,563	\$ 76,722
1.5 Contract Administration		5%				\$ 3,928	\$ 3,836
1.6 Admin. Cost for Certification of Final Cover and Affidavit to the Public		5%				\$ 3,928	\$ 3,836
1.7 Closure Inspection	68.6	AC	\$ 1,267	4.579	1.617	\$ 140,557	\$ 137,263
1.8 Permits	1	LS	\$10,560	4.579	1.617	\$ 17,077	\$ 16,677
ENGINEERING TOTAL						\$ 244,053	\$ 238,334
2.0 CONSTRUCTION							
2.1 Final Cover System							
2.1.1 Infiltration Layer	166,012	CY	\$ 4.33	4.579	1.617	\$ 1,162,463	\$ 1,135,217
2.1.2 Erosion Layer	221,349	CY	\$ 3.17	4.579	1.617	\$ 1,134,719	\$ 1,108,124
2.1.3 Flexible Membrane Cover	2,988,216	SF	\$ 0.29	4.579	1.617	\$ 1,401,398	\$ 1,368,553
2.1.4 Geotextile (Top)	518,364	SF	\$ 0.15	4.579	1.617	\$ 125,741	\$ 122,794
2.1.5 Geocomposite (Sideslopes)	2,469,852	SF	\$ 0.49	4.579	1.617	\$ 1,957,125	\$ 1,911,255
2.1.6 Completion of Existing Wells ³	56	WELLS	\$ 528	4.579	1.617	\$ 47,816	\$ 46,695
2.1.7 LFG Extraction Well Installation	30	WELLS	\$15,000	4.579	1.617	\$ 727,720	\$ 710,664
2.1.8 Dispose of Leachate in Evaporation Ponds	2,682,216	GAL	\$ 0.044		N/A	\$ 118,018	
2.1.9 Demolish Ponds and Dispose Onsite in Landfill	2	AC	\$ 5,000		N/A	\$ 10,000	
2.1.10 Flushing Leachate Forcemain Lines at Closure	2	LS	\$ 5,000		N/A	\$ 10,000	
2.1.11 Dispose of Leachate in Forcemain Lines	4,000	GAL	\$ 0.044		N/A	\$ 176	
2.3 Revegetation	68.6	AC	\$ 1,056	4.579	1.617	\$ 117,149	\$ 114,404
2.4 Site Grading and Drainage	68.6	AC	\$ 1,056	4.579	1.617	\$ 117,149	\$ 114,404
CONSTRUCTION TOTAL						\$ 6,929,474	\$ 6,632,110
ENGINEERING AND CONSTRUCTION SUBTOTAL						\$ 7,173,527	\$ 6,870,444
CONTINGENCY		10%				\$ 717,353	\$ 687,044
CONTRACT PERFORMANCE BOND		1.50%				\$ 107,603	\$ 103,057
LEGAL FEES		10%				\$ 717,353	\$ 687,044
TOTAL CLOSURE COST						\$ 8,715,835	\$ 8,347,599

¹LS = Lump Sum, CY = cubic yards, SY = square yards, AC = acres, FT = feet.

² Inflation factor is a product of the annual percentage change for each year between 2004 and 2024 as published by TCEQ (2.6, 2.8, 2.9, 2.7, 2.2, 1.2, 1.0, 2.1, 1.8, 1.5, 1.5, 1.0, 1.3, 1.8, 2.3, 1.7, 1.2, 4.2, 7.0, 3.6, and 2.4 respectively for 2004 through 2024).

³ Completion of landfill gas extraction system only requires the existing wells be extended above final cover.

All existing piping and connections will be sufficient to accommodate final cover construction.

⁴ Final Cover Vegetation Establishment Report submitted to TCEQ in July 2020 and approved on July 21, 2020.



**ECD LANDFILL EXPANSION
ELLIS COUNTY, TEXAS
~~TNRCC~~ TCEQ PERMIT NO.
1745-B**

**SITE DEVELOPMENT PLAN PART III
ATTACHMENT 15
LEACHATE AND CONTAMINATED WATER PLAN**

Prepared for

Ellis County Landfill TX, L.P.

TCEQ Approved July 31, 1999

Revised March 2005

Revised January 2026

Revision Prepared by

Civil & Environmental Consultants, Inc.

TBPE Registration No. F-38

1221 S. Mopac Expressway, Suite 350

Austin, Texas 78746

CEC Project 352-874

~~Weaver Boos Consultants, LLC — Southwest~~

~~6420 Southwest Boulevard, Suite 206~~

~~Fort Worth, Texas 76019~~

~~817-735-9770~~

~~Project No. 0120-70-11-46-01~~



1-28-2026

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APPENDIX 15A

Leachate Generation Model (HELP-3)

APPENDIX 15B

Leachate Collection System Design Calculations

APPENDIX 15C

Sector 5 - Leachate Collection System Design Calculations

APPENDIX 15D

Run-on/Runoff Diversion Berm Calculations



4 LEACHATE AND CONTAMINATED WATER STORAGE

4.1 Leachate Storage Facilities

4.1.1 Sump and Pump Capacity

Capacities of the leachate collection sump and pump have been selected to both limit maximum head in the landfill to 12 inches and provide a reasonable pump cycle time. The size of the remaining disposal cells to be developed will vary in size according to the excavation plan. The sump size is based on the largest drainage area to be developed for the remaining site which contains approximately 15.4 acres of liner area and generates a peak total flow rate of approximately 2,531 gallons of leachate per day (see Appendix 15B, p. 15B-26 for assumptions).

The sump size calculations are included in Appendix 15B. As a minimum, each sump will be capable of storing approximately 1.5 days peak leachate generation. The sump will be 3 feet deep with minimum dimensions of 31 by 31 feet at the landfill floor and 13 by 13 feet at the sump base. The approximate leachate storage volume of each sump will be 4,000 gallons based on an average porosity of 0.35 for the sump drainage stone.

An 18-inch diameter extraction riser pipe will be provided within the sump. The sump will be emptied by a submersible pump located in the riser pipe. The pump will be operated either manually with a hand-operated electric switch, or automatically by pressure transducers/stepped electrical leads which sense sump liquid levels. Control levels for an automatic sump pump will be set to maintain sump liquid levels at or below the invert of the collection header at the design leachate generation and flow rates. The depth of leachate in the sump will also be measured with a pressure transducer. The pressure transducer will be calibrated to provide direct read-out of the leachate level in the sump on demand.

4.1.2 Pump and Piping Systems

The pump and piping systems will be arranged to convey leachate directly from the leachate sump to one or more of the on-site leachate storage tanks/ponds via a force main system. Leachate will then be transported via tanker truck to 1) the working face (limited to areas underlain by composite liner), 2) a publicly owned treatment works (POTW), 3) private disposal facility, or 4) evaporation ponds.

Location of the leachate force main and proposed storage locations are shown on Figure 15A. The force main will consist of a 1-inch- to 3-inch-diameter pipe encased in a larger-diameter carrier pipe to provide leak or spillage containment. The force main will be installed as the site is developed to the south and will be extended to serve each sector as they are developed. Details of the connection between the 18" riser and force main are presented on Figure 15B.

4.1.3 Leachate Storage Tanks

Leachate collected in the sump will be pumped into one or more of the on-site leachate storage areas. A minimum of two double wall 100,000 gallon leachate storage tanks will be provided for leachate storage at the locations identified on Figure 15A. Leachate tanks will be equipped with liquid-level sensing devices and high-level alarm devices set to guard against spill and overflow. The storage tanks are detailed on Figure 15C. Scheduling of leachate recovery and treatment will be maintained so that a minimum of 7 days of storage capacity in the leachate storage tanks is available. Additional storage capacity will be provided as needed to maintain the 7 day storage capacity.

4.1.4 Leachate Storage Tank Containment Area

The leachate storage tanks will be placed within a lined containment area (unless a double wall tank is used). The lined containment will be sized to contain a minimum of 110 percent of the largest tank volume in addition to the volume displaced by the tank. Leachate spillage within the containment area will be manually pumped into the storage tank.

4.2 Contaminated Water Storage

As discussed in Sections 2.1 and 2.3, Ellis County Landfill TX, L.P. will manage surface waters throughout the active life of the landfill to minimize the amount of stormwater that will come in contact with waste or leachate. Contaminated water will be managed consistent with §330.56(0).

4.3 Leachate Evaporation Ponds

Leachate evaporation ponds may be used for storage and evaporation of leachate, gas condensate, and contaminated stormwater. Leachate, gas condensate and contaminated stormwater may be hauled via tanker truck or pumped through a forcemain and discharged in the ponds.

The leachate evaporation ponds will consist of a two-foot-thick compacted clay liner overlain by 2 - 60-mil geomembrane liners with a leak detection layer in between the two layers. The pond liner components will be constructed in accordance with Part III Attachment 15 Section 6 - Leachate Pond Operational Plan and Part III, Attachment 10 - Soil and Liner Quality Control Plan (SLQCP). The ponds will be maintained with a minimum two feet of freeboard; to allow capacity for a 25-year, 24-hour storm event. The location of the leachate storage ponds is shown on Figure 15D.

5 LEACHATE AND CONTAMINATED STORM WATER DISPOSAL

Leachate collection lines from the leachate sump will discharge to a leachate storage tank **or pond** as previously discussed. Leachate and contaminated water may be transferred into a tanker truck or transported directly to a privately-owned facility for treatment or a publicly-owned treatment works (POTW). **The leachate evaporation ponds may also be used to manage leachate storage and disposal.**

Leachate generated from the landfill expansion area will be recirculated to the working landfill face, and excess quantities of leachate will be directed to the leachate storage facilities, as required. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system. Because the leachate will be recirculated, sampling and analysis is not proposed. Leachate from the other areas of the landfill will be directed to the leachate storage facilities.

Leachate levels in the sump and storage tank will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the Site Operating Record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities. The depth of leachate in the sump will be measured with a pressure transducer on a weekly basis, and leachate will be pumped into the storage tanks as required to maintain a maximum leachate head of 12 inches on the liner (or 48 inches in the sump).

Since the leachate collected in the storage tanks will be transported to an approved facility, sampling and analysis will be limited to that facility's requirements. The results of leachate monitoring required by the disposal facility will be kept on site in the Site Operating Record.

6 LEACHATE POND AND OPERATIONAL PLAN

6.1 LEACHATE STORAGE POND DESCRIPTION

Leachate, gas condensate, and contaminated stormwater may be hauled to the evaporation ponds by water truck or pumped through a forcemain and discharged into the ponds. The pond liners will consist of two 60 mil HDPE geomembranes containing carbon black to help resist degradation from ultraviolet light, a leak detection layer, and two feet thick recompacted clay liner. The liner system for the ponds will be constructed and have quality assurance/quality control construction and testing requirements in accordance with the SLQCP. A Soil Liner Evaluation Report (SLER) and Geomembrane Liner Evaluation Report (GLER) will be prepared for the liner construction. This SLER and GLER will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information as described in the SLQCP.

The ponds may store leachate, contaminated stormwater, and gas condensate and allow it to evaporate naturally. Mechanical evaporators may be installed to supplement natural evaporation. The ECD Landfill is located in Ellis County. In the past 10 years, Ellis County has averaged 0.88 inches of net evaporation per month. According to the National Oceanographic and Atmospheric Administration's Atlas 14 database, the 25-year, 24-hour rainfall event in the Ennis area is 7.64 inches.

The leachate evaporation ponds will be operated to maintain a minimum of two feet of freeboard. The limit of the maximum operating level (two feet vertically down from the top of the pond) will be clearly marked with paint, or a bead of HDPE, or some other appropriate marking so that the operating level may be easily checked. The leachate level will be maintained at or below the maximum operating level. The level in the ponds will be checked weekly and within 72 hours of any rainfall events greater than four inches. If the leachate level exceeds the maximum operating level because of an excessive rainfall event, then leachate, contaminated stormwater, and gas condensate may be loaded from the ponds into tanker trucks for off-site disposal. After removal of excess liquid, the area around the discharge pipe and the where the tanker truck parked will be visually evaluated for signs of spills or leaks.

Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal. An inspection will be completed each week the pond(s) is in operation to document freeboard levels and corrective actions. Figure 15D shows the location of the leachate ponds. See Figures 15E through 15I for details related to the size and construction materials for the pond.

Revised January 2026

6.2 EVAPORATION POND LEAK DETECTION SYSTEM MONITORING

The leachate evaporation ponds will have a leak detection system. This system will consist of a double sided geocomposite between the leachate evaporation pond geomembrane liners. The geocomposite will be drained at a minimum 1% percent slope to a leak detection sump.

The leak detection sump will contain gravel wrapped in a geotextile with a perforated leak detection pipe connected to a solid wall leak detection riser pipe.

If liquid from one of the ponds were to leak through the top layer of geomembrane, it will be collected in the leak detection geocomposite. The leak detection sumps will be monitored monthly for the presence of liquid. If liquid is detected, the depth of the liquid will be determined. If there is sufficient depth of liquid to sample (6 inches or more) then a representative sample will be obtained and shipped to a laboratory for analysis. A qualified groundwater scientist will assist with developing the laboratory constituents to determine if the liquid in the sump is from the pond, leachate/condensate, or groundwater. If the liquid is determined to be groundwater/condensation, the water will be pumped from the leak detection sump into the drainage system.

If the liquid is determined to be from the evaporation pond, the forcemain discharge to the pond will be closed and the pond will be emptied. The liquid in the pond and the leak detection sump will be pumped into another pond, storage tank, or disposed of as described in Section 5. Leachate and/or gas condensate from the leachate evaporation pond may contain storm water and therefore this liquid will not be recirculated into the landfill. After removal of the liquid, the area around the discharge pipe and the where the tanker truck is parked will be visually evaluated for signs of spills or leaks. Any observed soil that has been contaminated with liquid from the pond will be excavated and taken to the active face of the landfill for disposal.

After the leachate evaporation pond is emptied of liquid, the pond will be searched for holes or other leaks. Any holes or other leaks will be repaired in accordance with the requirements of the SLQCP. A Soil and/or Geomembrane Liner Repair Report (Repair Report) will be prepared and submitted to the TCEQ. This Repair Report will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information.

When the evaporation pond repair is complete, the pond may be returned to normal operations.

Revised January 2026

6.3 ODOR CONTROLS FOR THE EVAPORATION PONDS

The leachate evaporation ponds are placed within the permitted footprint of the landfill at a location that is not near any adjacent residences. Odors around the ponds will be monitored weekly. If significant odors are detected, odor control measures such as aerators or portable drum-mounted odor control units will be brought in to mitigate the odors. The odor control unit will be operated 24 hours a day until the odors have subsided. An inspection will be completed each week, while the evaporation pond is in operation, to document odor levels and corrective actions.

6.4 POND DECOMMISSIONING AND REMOVAL

Prior to decommissioning, all fluids in the ponds will be removed and taken offsite for disposal. Then the geomembrane liners will be removed and taken to an approved disposal facility. The soil materials below the ponds will be visually inspected to determine if any spills or leaks from the ponds have contaminated it. Any soil that is determined to be contaminated with fluids from the ponds will be disposed of at an approved disposal facility. Any uncontaminated clay liner and structural fill will be removed and reused at the landfill for liner construction or daily/intermediate cover.

**ECD LANDFILL
ELLIS COUNTY, TEXAS
TCEQ PERMIT NO. MSW-1745B**

PERMIT MODIFICATION

PART IV - SITE OPERATING PLAN

Prepared for

Ellis County Landfill TX, LP

TCEQ Approved July 13, 2006

Revised April 2008

Revised September 2017

Revised January 2019

Revised January 2026

Prepared by

Civil & Environmental Consultants, Inc.

TBPE Registration No. F-38

1221 S. Mopac Expressway, Suite 350

Austin, Texas 78746

CEC Project 352-874

~~Weaver Boos Consultants, LLC—Southwest~~

~~6420 Southwest Boulevard, Suite 206~~

~~Fort Worth, Texas 76019~~

~~817-735-9770~~

~~Project No. 0120-70-11-107-0~~



1-28-2026

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APPENDIX IVA

Example Load Inspection Report

APPENDIX IVB

Alternative Daily Cover Operating Plan Information

APPENDIX IVC

Waste Acceptance Plan Approval Letter



the initial 5 feet of waste placed over the liner system, (2) large items are placed so that they do not interfere with continued waste filling, and (3) that other, smaller municipal solid waste is placed and compacted around them.

4.10 Air Quality and Odor Management Plan

The site will comply with all the applicable air quality rules and regulations. The site will be required to operate in accordance with the New Source Performance Standards (NSPS) for MSW landfills.

Steps will be taken to limit the impact of the facility's operation on air quality. Among the measures to be employed are the following:

- Accidental fires will be controlled as outlined in Section 7 of this SOP.
- Open burning of waste will not be permitted at this facility.
- Incoming waste will be promptly compacted into the working face area. Daily cover will be placed consistent with the procedures specified in Section 4.18.2.
- Poned water at the site will be controlled as detailed in Section 4.19 of this SOP.

The GCCS will be expanded and operated in accordance with all applicable requirements. The site management team (e.g., Landfill Manager, Environmental Manager, and General Manager) will verify that ECD Landfill does not violate any applicable air quality and/or LFG requirements (refer to the Landfill Gas Management Plan for more information). The Environmental Manager is responsible for verifying and documenting compliance with the site's operating permit and any other applicable regulations. Current permits will be maintained in the Site Operating Record.

The site management team will maintain the required probe monitoring data and GCCS records as described in the Landfill Gas Management Plan.

Odors shall be controlled at the site and will be reduced if they occur in accordance with this Odor Management Plan. Sources of landfill odor can vary considerably and may include the wastes being delivered to the landfill, the open working face, surface emissions from the covered portion of the landfill, or the leachate collection system. Many of the wastes received at a landfill are a source of odor upon receipt, such as sludge and dead animals. Other wastes have the potential for becoming a source of odor by their biodegradable characteristics, generating gases as they advance through the decomposition process. Leachate may also be a source of odor if not properly handled or disposed of in a timely manner. **See Section 6.3 of Attachment 15 for odor control procedures related to the leachate evaporation ponds.** Among the measures that may be employed to reduce potential odors are the following.

ATTACHMENT D
CLEAN DOCUMENTS



NORTH

LANDFILL FOOTPRINT

PERMIT BOUNDARY

NORTH WEST EVAPORATION POND GRADING LIMITS

SOUTH EAST EVAPORATION POND GRADING LIMITS

REMOVE ALL EXISTING BUILDINGS, FENCES, PAVEMENT, UTILITIES, ETC. IN THE AREA DESIGNATED FOR SOUTH EVAPORATION POND IMPROVEMENTS

IH-45 ACCESS ROAD

REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.



ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF NC, PLLC. SERVICES IN PUERTO RICO WILL BE PROVIDED BY CEC ENGINEERS & CONSULTANTS, LLC. LANDSCAPE ARCHITECTURE SERVICES IN THE STATE OF OHIO WILL BE PROVIDED BY CEC LANDSCAPE ARCHITECTS, LLC.



1221 S. MoPac Expressway
Suite 350
Austin, TX 78746
Ph: 512.439.0400
www.cecinc.com

Texas Registered Engineering Firm F-38

REPUBLIC SERVICES
ELLIS COUNTY LANDFILL
LEACHATE EVAPORATION PONDS
ENNIS, ELLIS COUNTY TEXAS

EXISTING CONDITIONS

DRAWN BY: MFV	CHECKED BY: ATC	APPROVED BY: AWM	FIGURE NO.: 1-1A
DATE: 11/24/25	DWG SCALE: AS NOTED	PROJECT NO: 352-875	

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**ECD LANDFILL
ELLIS COUNTY, TEXAS
TCEQ PERMIT NO. MSW-1745B**

PERMIT MODIFICATION

**PART III
ATTACHMENT 8
COST ESTIMATE FOR CLOSURE
AND POSTCLOSURE CARE**

Prepared for

Ellis County Landfill TX, LP

August 2004

Revised January 2006

Revised September 2012

Revised June 2018

Revised November 2019

Revised August 2020

Revised May 2023

Revised May 2024

Revised August 2024

Revised January 2026

Prepared by

Civil and Environmental Consultants, Inc.

TBPE Registration No. F-38

1221 S. Mopac Expressway, Suite 350

Austin, Texas 78746

CEC Project 352-874



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**TABLE 1
ECD LANDFILL-CLOSURE COST**

Area Requiring Final Cover ⁴	68.6 ac	Infiltration Layer Thickness	1.5
Composite Topslope Area	11.9 ac	Erosion Layer Thickness	2.0
Composite Sideslope Area	56.7 ac		
Permit Boundary Area	352.6 ac		

Description	Quantity	Unit ¹	Unit Cost	2025	
				Inflation Factor ²	Total Cost
1.0 ENGINEERING					
1.1 Topographic Survey	68.6	AC	\$ 69	1.617	\$ 7,655
1.2 Boundary Survey for Affidavit	352.6	AC	\$ 37	1.617	\$ 21,098
1.3 Site Evaluation	68.6	AC	\$ 106	1.617	\$ 11,759
1.4 Development of Plans	68.6	AC	\$ 343	1.617	\$ 38,051
Subtotal					\$ 78,563
1.5 Contract Administration		5%			\$ 3,928
1.6 Admin. Cost for Certification of Final Cover and Affidavit to the Public		5%			\$ 3,928
1.7 Closure Inspection	68.6	AC	\$ 1,267	1.617	\$ 140,557
1.8 Permits	1	LS	\$10,560	1.617	\$ 17,077
ENGINEERING TOTAL					\$ 244,053
2.0 CONSTRUCTION					
2.1 Final Cover System					
2.1.1 Infiltration Layer	166,012	CY	\$ 4.33	1.617	\$ 1,162,463
2.1.2 Erosion Layer	221,349	CY	\$ 3.17	1.617	\$ 1,134,719
2.1.3 Flexible Membrane Cover	2,988,216	SF	\$ 0.29	1.617	\$ 1,401,398
2.1.4 Geotextile (Top)	518,364	SF	\$ 0.15	1.617	\$ 125,741
2.1.5 Geocomposite (Sideslopes)	2,469,852	SF	\$ 0.49	1.617	\$ 1,957,125
2.1.6 Completion of Existing Wells ³	56	WELLS	\$ 528	1.617	\$ 47,816
2.1.7 LFG Extraction Well Installation	30	WELLS	\$15,000	1.617	\$ 727,720
2.1.8 Dispose of Leachate in Evaporation Ponds	2,682,216	GAL	\$ 0.044	N/A	\$ 118,018
2.1.9 Demolish Ponds and Dispose Onsite in Landfill	2	AC	\$ 5,000	N/A	\$ 10,000
2.1.10 Flushing Leachate Forcemain Lines at Closure	2	LS	\$ 5,000	N/A	\$ 10,000
2.1.11 Dispose of Leachate in Forcemain Lines	4,000	GAL	\$ 0.044	N/A	\$ 176
2.3 Revegetation	68.6	AC	\$ 1,056	1.617	\$ 117,149
2.4 Site Grading and Drainage	68.6	AC	\$ 1,056	1.617	\$ 117,149
CONSTRUCTION TOTAL					\$ 6,929,474
ENGINEERING AND CONSTRUCTION SUBTOTAL					\$ 7,173,527
CONTINGENCY		10%			\$ 717,353
CONTRACT PERFORMANCE BOND		1.50%			\$ 107,603
LEGAL FEES		10%			\$ 717,353
TOTAL CLOSURE COST					\$ 8,715,835

¹LS = Lump Sum, CY = cubic yards, SY = square yards, AC = acres, FT = feet.

²Inflation factor is a product of the annual percentage change for each year between 2004 and 2024 as published by TCEQ (2.6, 2.8, 2.9, 2.7, 2.2, 1.2, 1.0, 2.1, 1.8, 1.5, 1.5, 1.0, 1.3, 1.8, 2.3, 1.7, 1.2, 4.2, 7.0, 3.6, and 2.4 respectively for 2004 through 2024).

³Completion of landfill gas extraction system only requires the existing wells be extended above final cover.

All existing piping and connections will be sufficient to accommodate final cover construction.

⁴Final Cover Vegetation Establishment Report submitted to TCEQ in July 2020 and approved on July 21, 2020.



**ECD LANDFILL EXPANSION
ELLIS COUNTY, TEXAS
TCEQ PERMIT NO. 1745-B**

**SITE DEVELOPMENT PLAN PART III
ATTACHMENT 15
LEACHATE AND CONTAMINATED WATER PLAN**

Prepared for

Ellis County Landfill TX, L.P.

TCEQ Approved July 31, 1999

Revised March 2005

Revised January 2026

Revision Prepared by

Civil & Environmental Consultants, Inc.
TBPE Registration No. F-38
1221 S. Mopac Expressway, Suite 350
Austin, Texas 78746

CEC Project 352-874



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APPENDIX 15A

Leachate Generation Model (HELP-3)

APPENDIX 15B

Leachate Collection System Design Calculations

APPENDIX 15C

Sector 5 - Leachate Collection System Design Calculations

APPENDIX 15D

Run-on/Runoff Diversion Berm Calculations



4 LEACHATE AND CONTAMINATED WATER STORAGE

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Location of the leachate force main and proposed storage locations are shown on Figure 15A. The force main will consist of a 1-inch- to 3-inch-diameter pipe encased in a larger-diameter carrier pipe to provide leak or spillage containment. The force main will be installed as the site is developed to the south and will be extended to serve each sector as they are developed. Details of the connection between the 18" riser and force main are presented on Figure 15B.

4.1.3 Leachate Storage Tanks

Leachate collected in the sump will be pumped into one or more of the on-site leachate storage areas. A minimum of two double wall 100,000 gallon leachate storage tanks will be provided for leachate storage at the locations identified on Figure 15A. Leachate tanks will be equipped with liquid-level sensing devices and high-level alarm devices set to guard against spill and overflow. The storage tanks are detailed on Figure 15C. Scheduling of leachate recovery and treatment will be maintained so that a minimum of 7 days of storage capacity in the leachate storage tanks is available. Additional storage capacity will be provided as needed to maintain the 7 day storage capacity.

4.1.4 Leachate Storage Tank Containment Area

The leachate storage tanks will be placed within a lined containment area (unless a double wall tank is used). The lined containment will be sized to contain a minimum of 110 percent of the largest tank volume in addition to the volume displaced by the tank. Leachate spillage within the containment area will be manually pumped into the storage tank.

4.2 Contaminated Water Storage

As discussed in Sections 2.1 and 2.3, Ellis County Landfill TX, L.P. will manage surface waters throughout the active life of the landfill to minimize the amount of stormwater that will come in contact with waste or leachate. Contaminated water will be managed consistent with §330.56(0).

4.3 Leachate Evaporation Ponds

Leachate evaporation ponds may be used for storage and evaporation of leachate, gas condensate, and contaminated stormwater. Leachate, gas condensate and contaminated stormwater may be hauled via tanker truck or pumped through a forcemain and discharged in the ponds.

The leachate evaporation ponds will consist of a two-foot-thick compacted clay liner overlain by 2 - 60-mil geomembrane liners with a leak detection layer in between the two layers. The pond liner components will be constructed in accordance with Part III Attachment 15 Section 6 - Leachate Pond Operational Plan and Part III, Attachment 10 - Soil and Liner Quality Control Plan (SLQCP). The ponds will be maintained with a minimum two feet of freeboard; to allow capacity for a 25-year, 24-hour storm event. The location of the leachate storage ponds is shown on Figure 15D.

5 LEACHATE AND CONTAMINATED STORM WATER DISPOSAL

Leachate collection lines from the leachate sump will discharge to a leachate storage tank or pond as previously discussed. Leachate and contaminated water may be transferred into a tanker truck or transported directly to a privately-owned facility for treatment or a publicly-owned treatment works (POTW). The leachate evaporation ponds may also be used to manage leachate storage and disposal.

Leachate generated from the landfill expansion area will be recirculated to the working landfill face, and excess quantities of leachate will be directed to the leachate storage facilities, as required. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system. Because the leachate will be recirculated, sampling and analysis is not proposed. Leachate from the other areas of the landfill will be directed to the leachate storage facilities.

Leachate levels in the sump and storage tank will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the Site Operating Record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities. The depth of leachate in the sump will be measured with a pressure transducer on a weekly basis, and leachate will be pumped into the storage tanks as required to maintain a maximum leachate head of 12 inches on the liner (or 48 inches in the sump).

Since the leachate collected in the storage tanks will be transported to an approved facility, sampling and analysis will be limited to that facility's requirements. The results of leachate monitoring required by the disposal facility will be kept on site in the Site Operating Record.

6 LEACHATE POND AND OPERATIONAL PLAN

6.1 LEACHATE STORAGE POND DESCRIPTION

Leachate, gas condensate, and contaminated stormwater may be hauled to the evaporation ponds by water truck or pumped through a forcemain and discharged into the ponds. The pond liners will consist of two 60 mil HDPE geomembranes containing carbon black to help resist degradation from ultraviolet light, a leak detection layer, and two feet thick recompacted clay liner. The liner system for the ponds will be constructed and have quality assurance/quality control construction and testing requirements in accordance with the SLQCP. A Soil Liner Evaluation Report (SLER) and Geomembrane Liner Evaluation Report (GLER) will be prepared for the liner construction. This SLER and GLER will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information as described in the SLQCP.

The ponds may store leachate, contaminated stormwater, and gas condensate and allow it to evaporate naturally. Mechanical evaporators may be installed to supplement natural evaporation. The ECD Landfill is located in Ellis County. In the past 10 years, Ellis County has averaged 0.88 inches of net evaporation per month. According to the National Oceanographic and Atmospheric Administration's Atlas 14 database, the 25-year, 24-hour rainfall event in the Ennis area is 7.64 inches.

The leachate evaporation ponds will be operated to maintain a minimum of two feet of freeboard. The limit of the maximum operating level (two feet vertically down from the top of the pond) will be clearly marked with paint, or a bead of HDPE, or some other appropriate marking so that the operating level may be easily checked. The leachate level will be maintained at or below the maximum operating level. The level in the ponds will be checked weekly and within 72 hours of any rainfall events greater than four inches. If the leachate level exceeds the maximum operating level because of an excessive rainfall event, then leachate, contaminated stormwater, and gas condensate may be loaded from the ponds into tanker trucks for off-site disposal. After removal of excess liquid, the area around the discharge pipe and the where the tanker truck parked will be visually evaluated for signs of spills or leaks.

Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal. An inspection will be completed each week the pond(s) is in operation to document freeboard levels and corrective actions. Figure 15D shows the location of the leachate ponds. See Figures 15E through 15I for details related to the size and construction materials for the pond.

6.2 EVAPORATION POND LEAK DETECTION SYSTEM MONITORING

The leachate evaporation ponds will have a leak detection system. This system will consist of a double sided geocomposite between the leachate evaporation pond geomembrane liners. The geocomposite will be drained at a minimum 1% percent slope to a leak detection sump.

The leak detection sump will contain gravel wrapped in a geotextile with a perforated leak detection pipe connected to a solid wall leak detection riser pipe.

If liquid from one of the ponds were to leak through the top layer of geomembrane, it will be collected in the leak detection geocomposite. The leak detection sumps will be monitored monthly for the presence of liquid. If liquid is detected, the depth of the liquid will be determined. If there is sufficient depth of liquid to sample (6 inches or more) then a representative sample will be obtained and shipped to a laboratory for analysis. A qualified groundwater scientist will assist with developing the laboratory constituents to determine if the liquid in the sump is from the pond, leachate/condensate, or groundwater. If the liquid is determined to be groundwater, the water will be pumped from the leak detection sump into the drainage system.

If the liquid is determined to be leachate and/or gas condensate, the forcemain discharge to the pond will be closed and the pond will be emptied. The liquid in the pond and the leak detection sump will be pumped into another pond, storage tank, or disposed of as described in Section 5. Leachate and/or gas condensate from the leachate evaporation pond may contain storm water and therefore this liquid will not be recirculated into the landfill. After removal of the liquid, the area around the discharge pipe and the where the tanker truck is parked will be visually evaluated for signs of spills or leaks. Any observed soil that has been contaminated with liquid from the pond will be excavated and taken to the active face of the landfill for disposal.

After the leachate evaporation pond is emptied of liquid, the pond will be searched for holes or other leaks. Any holes or other leaks will be repaired in accordance with the requirements of the SLQCP. A Soil and/or Geomembrane Liner Repair Report (Repair Report) will be prepared and submitted to the TCEQ. This Repair Report will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information.

When the evaporation pond repair is complete, the pond may be returned to normal operations.

6.3 ODOR CONTROLS FOR THE EVAPORATION PONDS

The leachate evaporation ponds are placed within the permitted footprint of the landfill at a location that is not near any adjacent residences. Odors around the ponds will be monitored weekly. If significant odors are detected, odor control measures such as aerators or portable drum-mounted odor control units will be brought in to mitigate the odors. The odor control unit will be operated 24 hours a day until the odors have subsided. An inspection will be completed each week, while the evaporation pond is in operation, to document odor levels and corrective actions.

6.4 POND DECOMMISSIONING AND REMOVAL

Prior to decommissioning, all fluids in the ponds will be removed and taken offsite for disposal. Then the geomembrane liners will be removed and taken to an approved disposal facility. The soil materials below the ponds will be visually inspected to determine if any spills or leaks from the ponds have contaminated it. Any soil that is determined to be contaminated with fluids from the ponds will be disposed of at the active face of the landfill. Any uncontaminated clay liner and structural fill will be removed and reused at the landfill for liner construction or daily/intermediate cover.



LANDFILL FOOTPRINT

PERMIT BOUNDARY

NORTH WEST EVAPORATION POND GRADING LIMITS

SOUTH EAST EVAPORATION POND GRADING LIMITS

REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.



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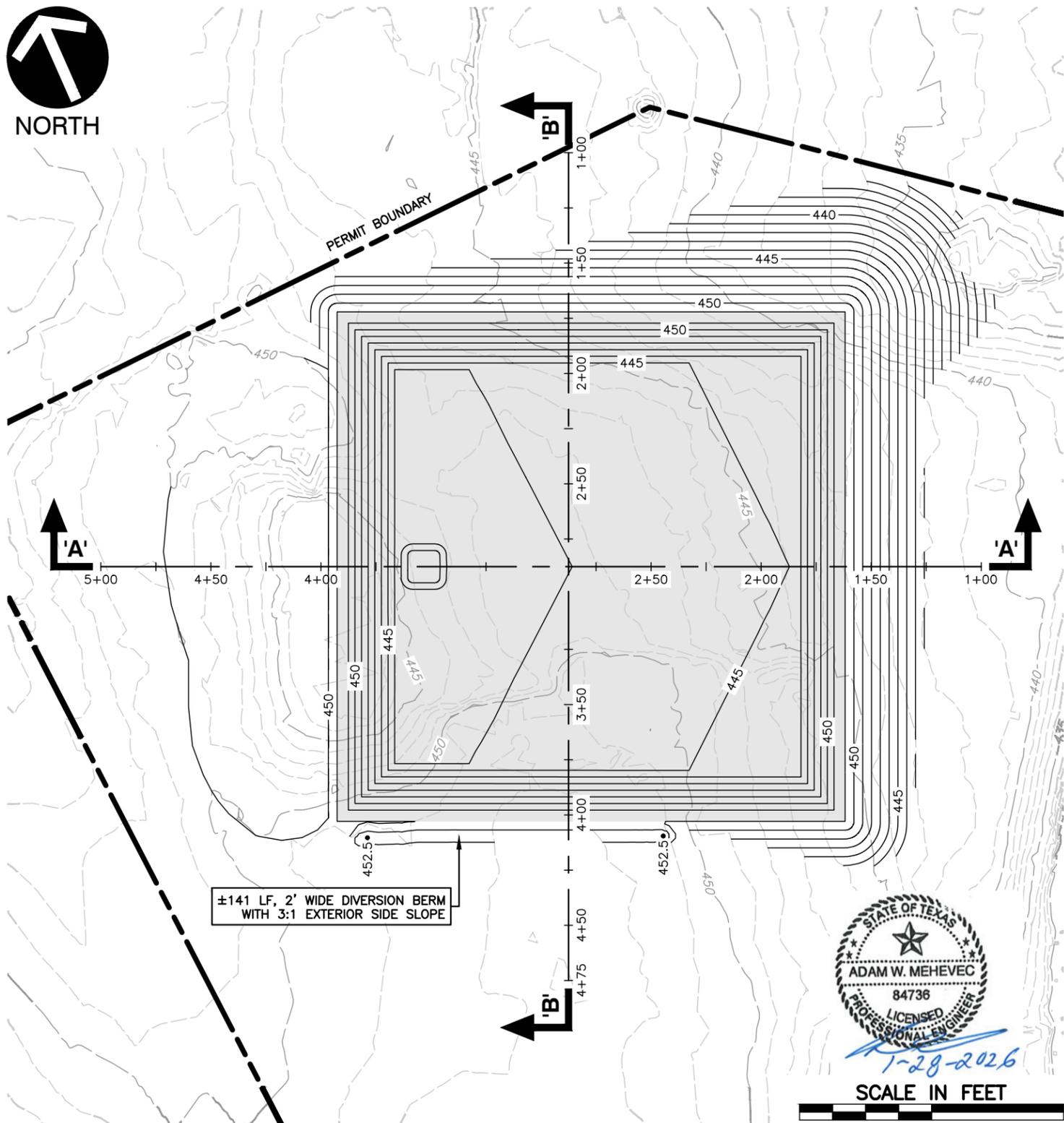
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REPUBLIC SERVICES
ELLIS COUNTY LANDFILL
LEACHATE EVAPORATION PONDS
ENNIS, ELLIS COUNTY TEXAS

DEVELOPED CONDITIONS WITH EVAPORATION PONDS

DRAWN BY:	MFV	CHECKED BY:	ATC	APPROVED BY:	AWM	FIGURE NO.:	15D
DATE:	11/24/25	DWG SCALE:	AS NOTED	PROJECT NO.:	352-875		

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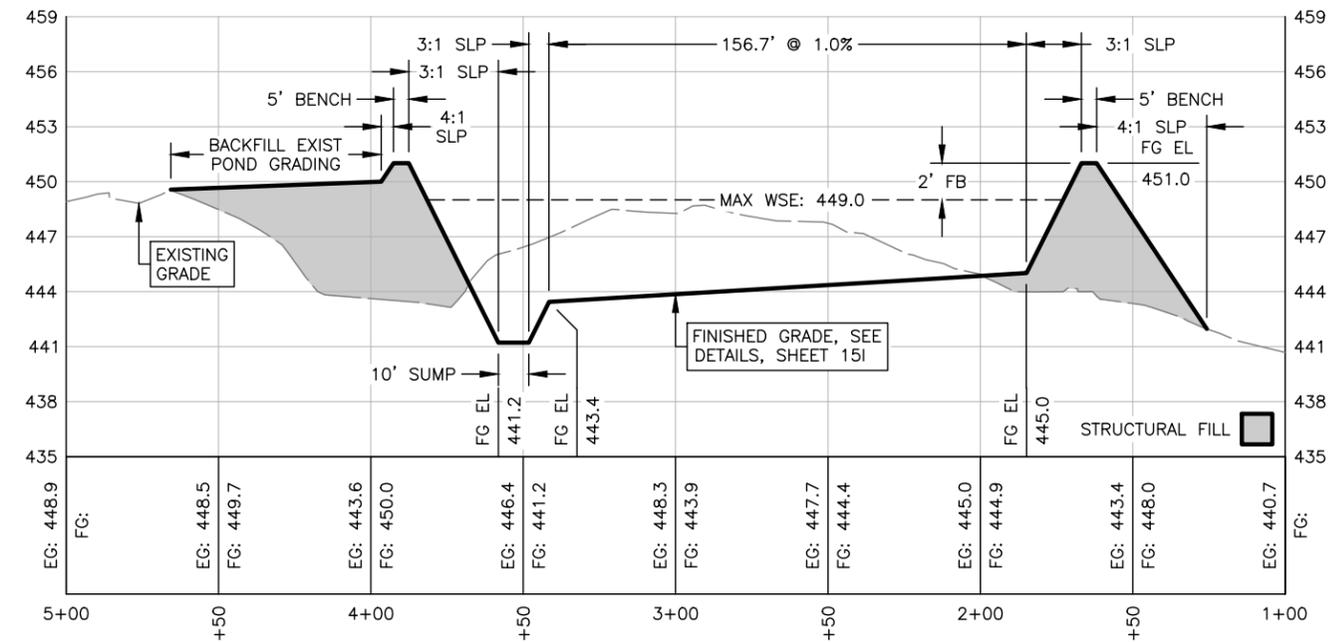


SCALE IN FEET
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NOTES:

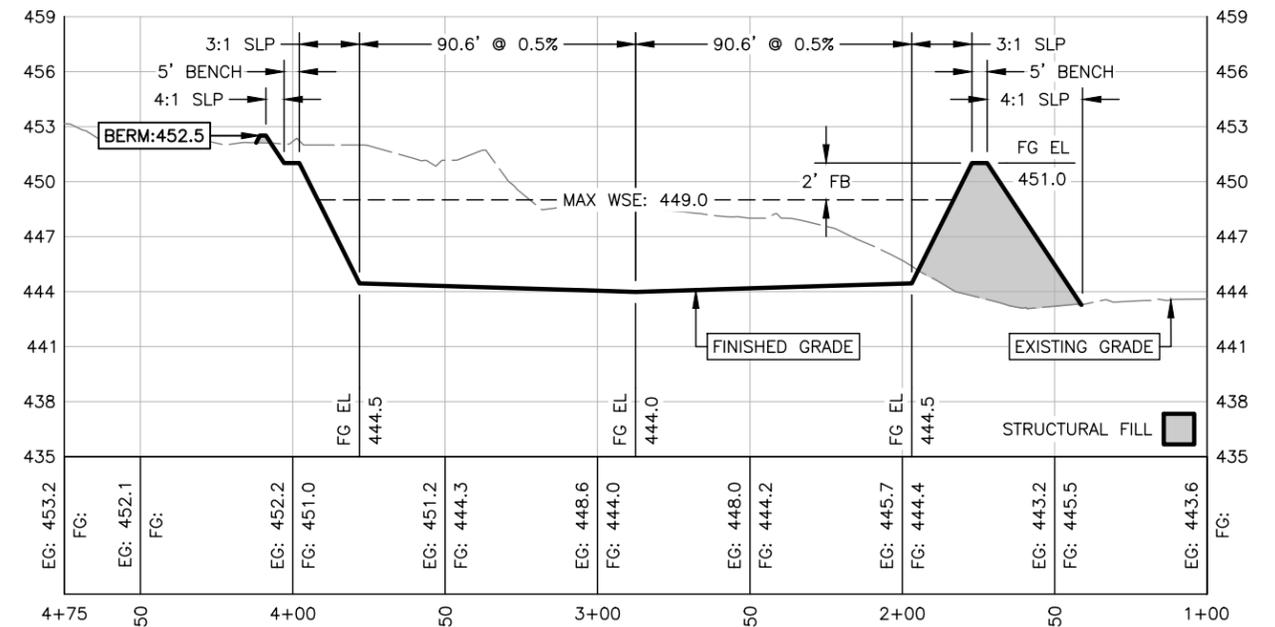
1. EXCAVATION SPOILS: CUT 4,540 CY / FILL 7,182 CY.
2. WATER STORAGE ELEVATION 446.4, ±1,341,108 GALLONS. STORAGE AREA: 1 ACRE.
3. EXTERNAL POND EMBANKMENT SHALL BE GRADED AT 3:1 SLOPE. INTERNAL POND EMBANKMENT SHALL BE GRADED AT 3:1 SLOPE. ALL DIVERSION BERMS SHALL BE GRADED WITH 3:1 SIDE SLOPES AND 2' WIDE TOP WIDTH.
4. GRAY RECTANGLE REPRESENTS THE EXTENT OF CLAY LINER.

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NORTH WEST EVAPORATION POND 'A-A' PROFILE

SCALE H:1"=60'; V:1"=10'



NORTH WEST EVAPORATION POND 'B-B' PROFILE

SCALE H:1"=60'; V:1"=10'

REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.



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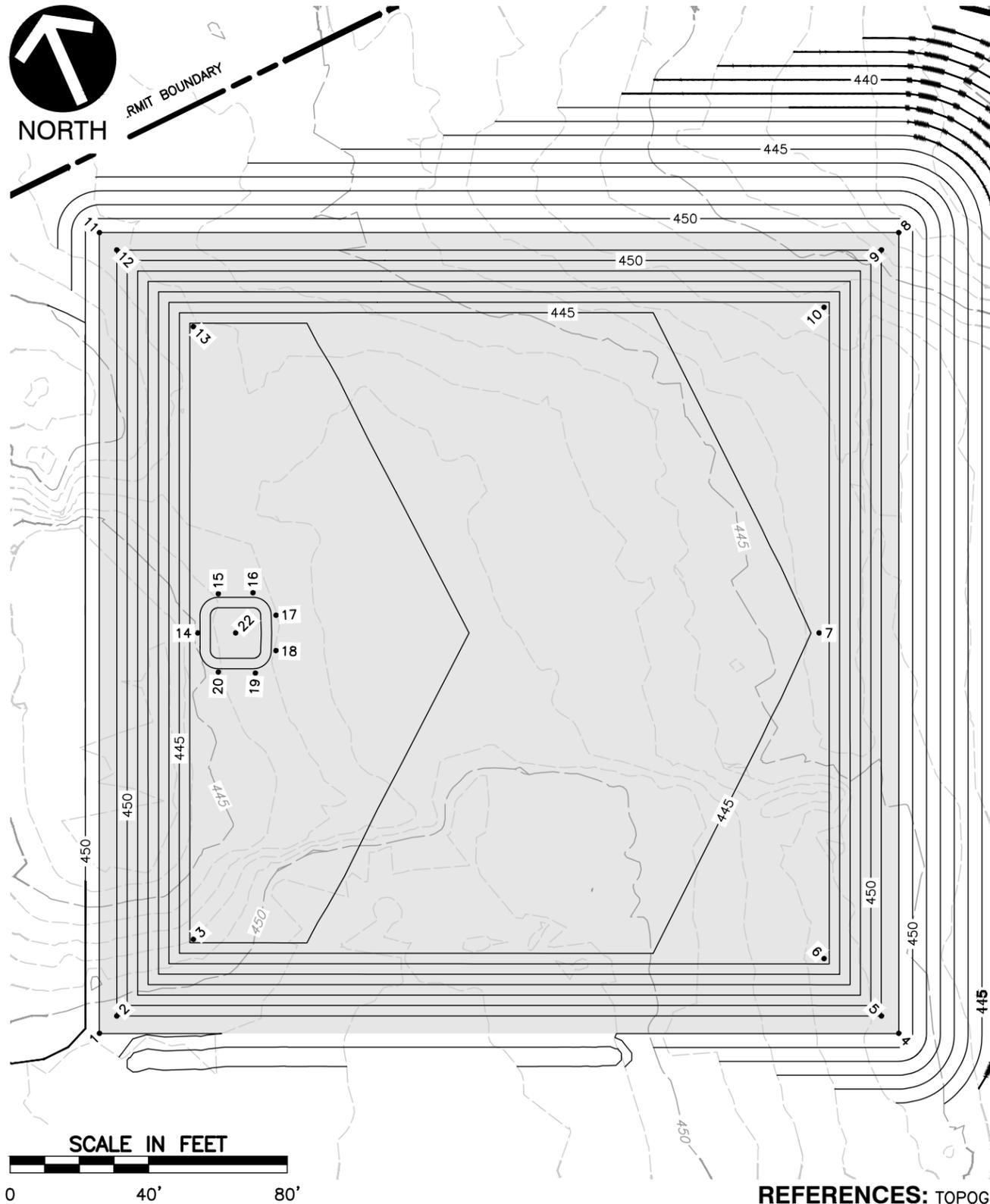
REPUBLIC SERVICES
ELLIS COUNTY LANDFILL
LEACHATE EVAPORATION PONDS
ENNIS, ELLIS COUNTY TEXAS

**NORTH WEST LEACHATE EVAPORATION POND
PLAN & PROFILE**

DRAWN BY: MFV CHECKED BY: ATC APPROVED BY: AWM FIGURE NO.: 15E
DATE: 11/24/25 DWG SCALE: AS NOTED PROJECT NO: 352-875

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3	6830700.58	2535657.55	443.7
4	6830593.32	2535832.75	451.0
5	6830599.92	2535830.20	451.0
6	6830621.75	2535821.77	445.5
7	6830708.10	2535858.44	445.0
8	6830804.25	2535926.20	451.0
9	6830801.70	2535919.60	451.0
10	6830793.27	2535897.77	445.5
11	6830897.71	2535715.25	451.0
12	6830891.11	2535717.80	451.0
13	6830861.96	2535729.05	443.7
14	6830780.75	2535694.48	443.2
15	6830788.65	2535704.46	443.3
16	6830784.88	2535713.73	443.4
17	6830776.25	2535717.21	443.5
18	6830766.93	2535713.08	443.5
19	6830763.44	2535705.00	443.4
20	6830768.04	2535695.33	443.3
22	6830776.32	2535704.47	441.2



REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.

NOTES:

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- GRAY RECTANGLE REPRESENTS THE EXTENT OF CLAY LINER.

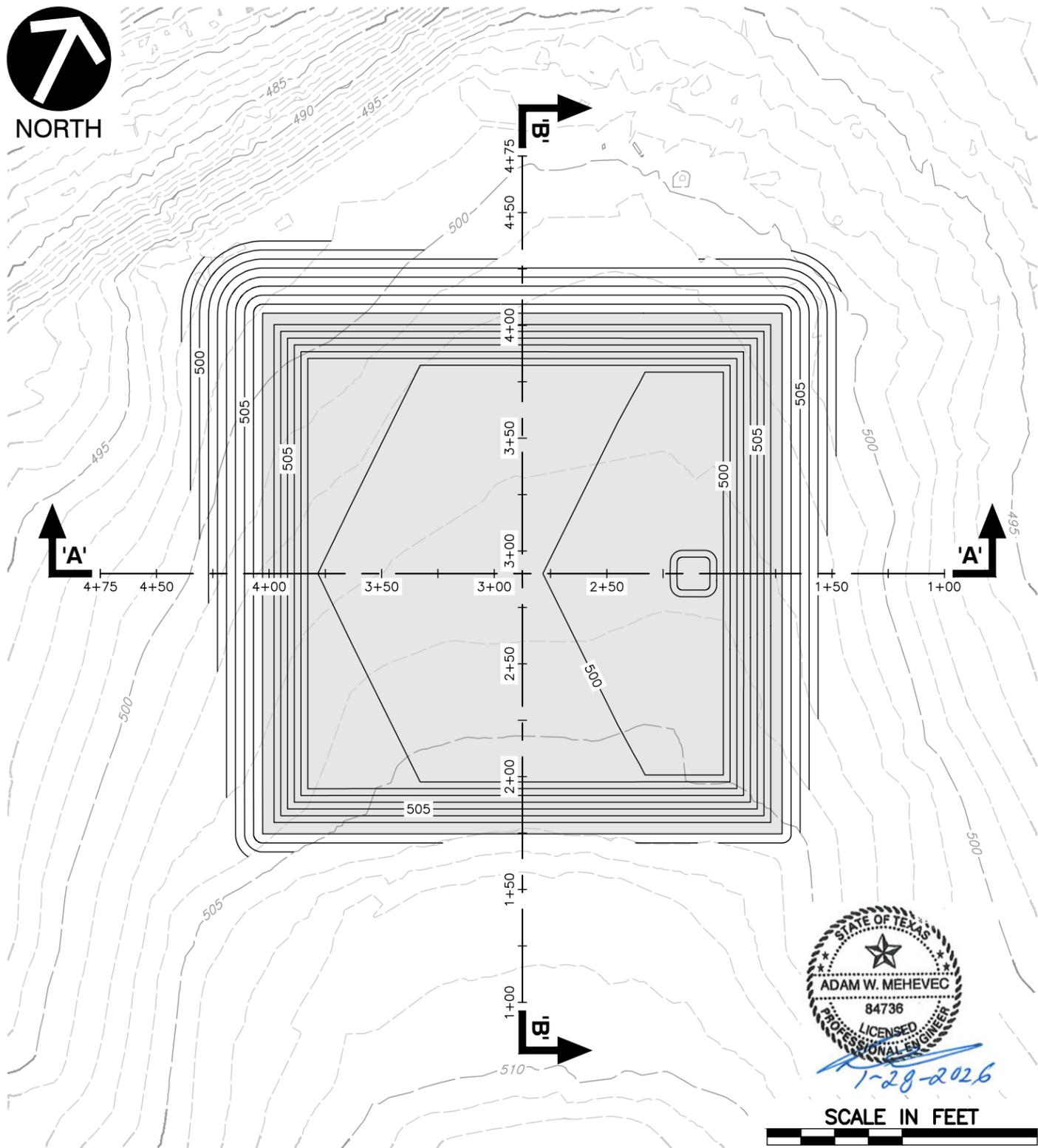
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LEACHATE EVAPORATION PONDS
ENNIS, ELLIS COUNTY TEXAS
NORTH WEST LEACHATE EVAPORATION POND POINTS

DRAWN BY: MFV	CHECKED BY: ATC	APPROVED BY: AWM	FIGURE NO.: 15F
DATE: 11/24/25	DWG SCALE: AS NOTED	PROJECT NO: 352-875	



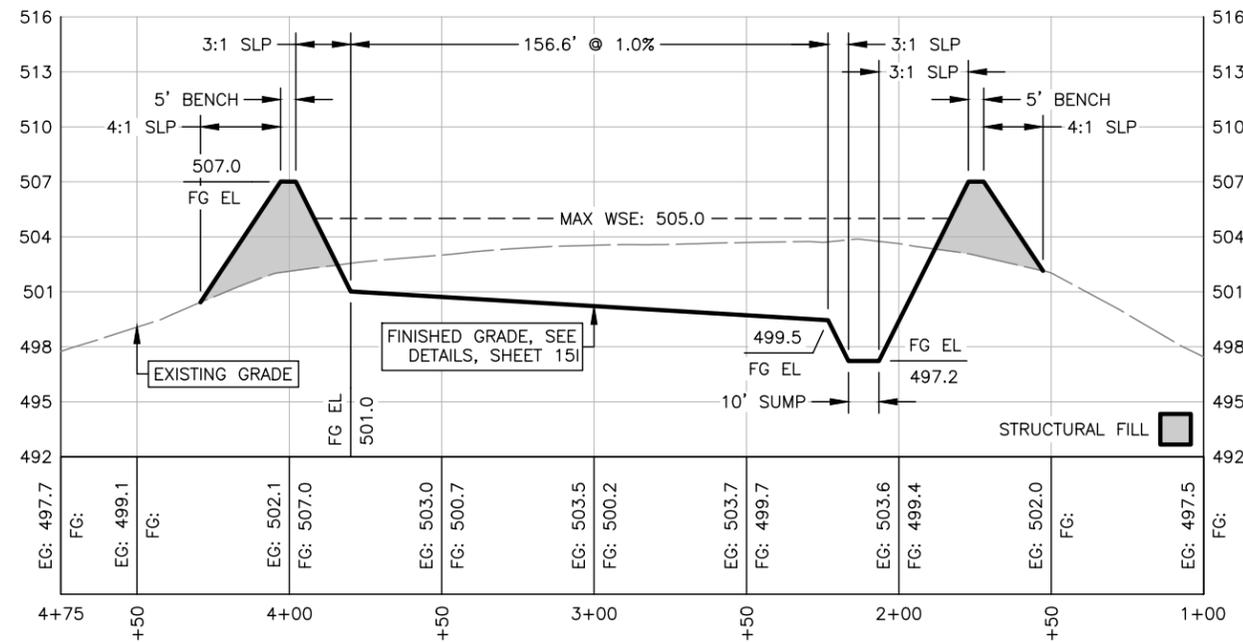
SCALE IN FEET

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NOTES:

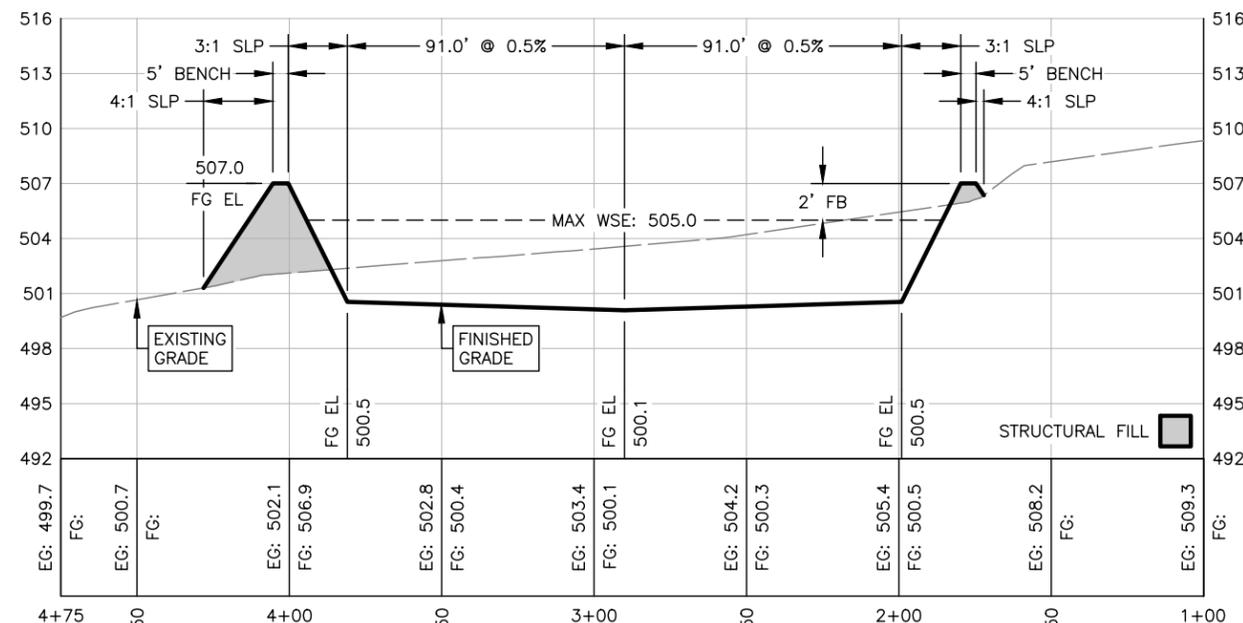
1. EXCAVATION SPOILS: CUT 4,335 CY / FILL 3,323 CY.
2. WATER STORAGE ELEVATION 503.4, ±1,341,108 GALLONS. STORAGE AREA: 1 ACRE.
3. EXTERNAL POND EMBANKMENT SHALL BE GRADED AT 4:1 SLOPE. INTERNAL POND EMBANKMENT SHALL BE GRADED AT 3:1 SLOPE. ALL DIVERSION BERMS SHALL BE GRADED WITH 3:1 SIDE SLOPES AND 2' WIDE TOP WIDTH.
4. GRAY RECTANGLE REPRESENTS THE EXTENT OF CLAY LINER.

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SOUTH EAST EVAPORATION POND 'A-A' PROFILE

SCALE H:1"=60'; V:1"=10'



SOUTH EAST EVAPORATION POND 'B-B' PROFILE

SCALE H:1"=60'; V:1"=10'

REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.



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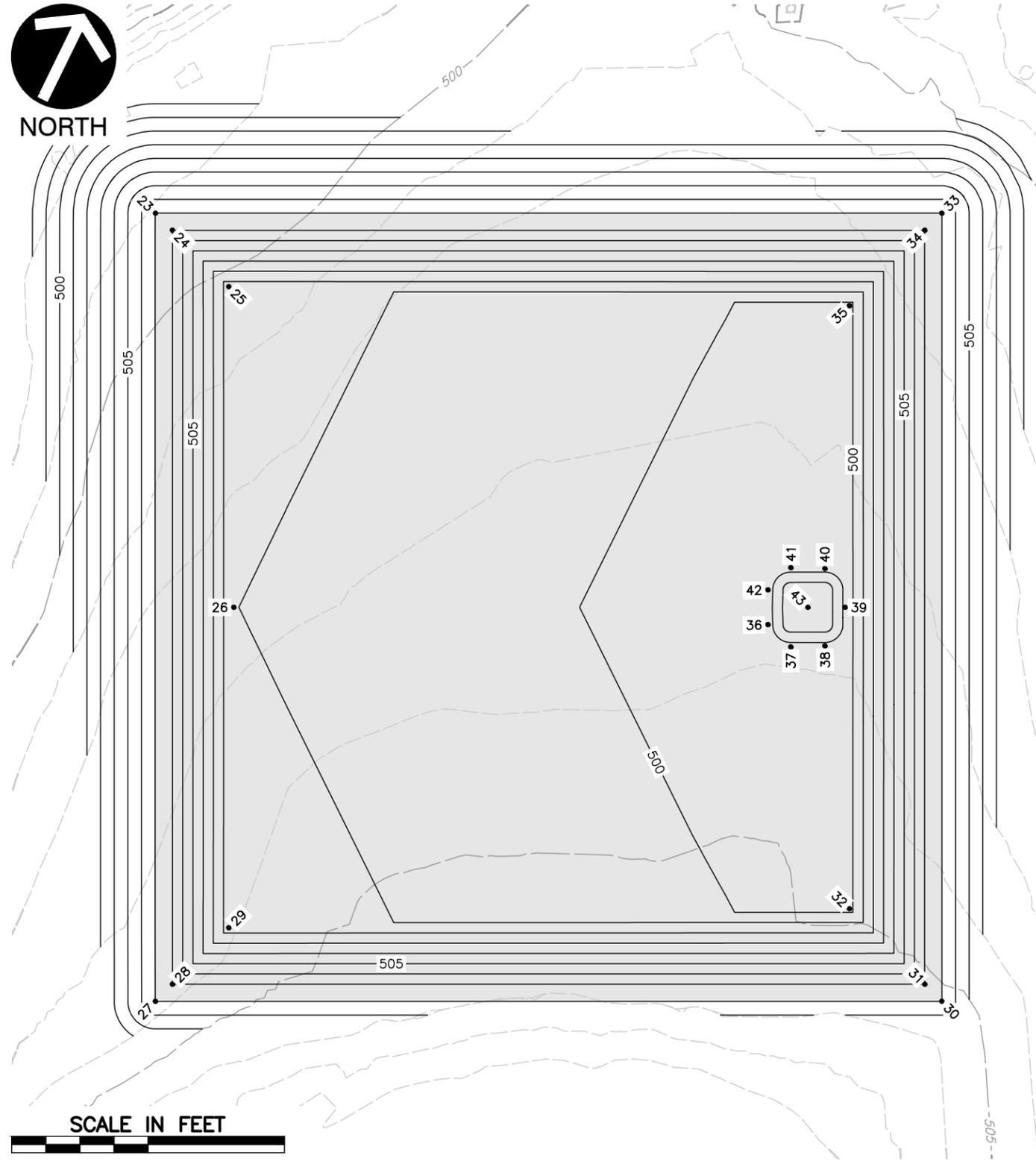
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**SOUTH EAST LEACHATE EVAPORATION POND
PLAN & PROFILE**

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DATE: 11/24/25 DWG SCALE: AS NOTED PROJECT NO: 352-875

FIGURE NO.: **15G**

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25	6828787.72	2538407.69	501.5
26	6828704.15	2538450.33	501.0
27	6828590.46	2538480.53	507.0
28	6828597.15	2538482.81	507.0
29	6828619.30	2538490.37	501.5
30	6828692.13	2538687.61	507.0
31	6828694.42	2538680.92	507.0
32	6828704.51	2538651.35	499.7
33	6828899.24	2538585.93	507.0
34	6828892.54	2538583.65	507.0
35	6828862.97	2538573.55	499.7
36	6828768.63	2538593.24	499.5
37	6828765.74	2538602.11	499.4
38	6828770.40	2538610.97	499.3
39	6828783.18	2538611.30	499.2
40	6828790.72	2538600.99	499.3
41	6828786.56	2538591.89	499.4
42	6828777.78	2538588.75	499.5
43	6828778.36	2538601.49	497.2



REFERENCES: TOPOGRAPHY AND PLANIMETRICS PROVIDED BY FIRMATEK, NOVEMBER 21, 2024.

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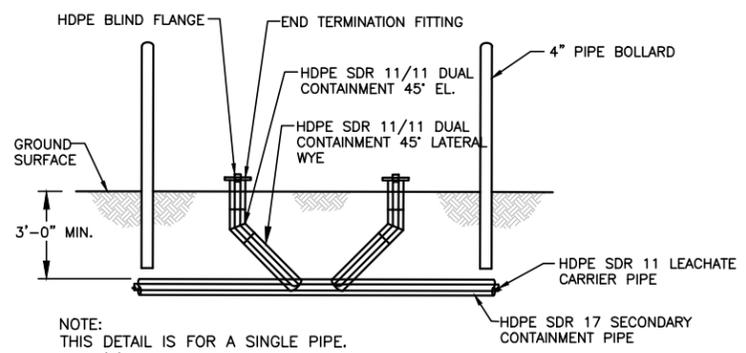
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REPUBLIC SERVICES
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LEACHATE EVAPORATION PONDS
ENNIS, ELLIS COUNTY TEXAS

SOUTH EAST LEACHATE EVAPORATION POND POINTS

DRAWN BY:	MFV	CHECKED BY:	ATC	APPROVED BY:	AWM	FIGURE NO.:	15H
DATE:	11/24/25	DWG SCALE:	AS NOTED	PROJECT NO.:	352-875		

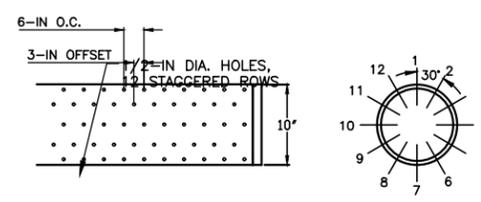
F:\350-000\352-874\CADD\DWG\SW01\352874-SW01-Details.dwg[D1] LS:(2/9/2026 - amehevec) - LP: 2/9/2026 5:47 PM



NOTE:
THIS DETAIL IS FOR A SINGLE PIPE.
TWO (2) CLEAN-OUTS ARE
REQUIRED AT EACH LOCATION.

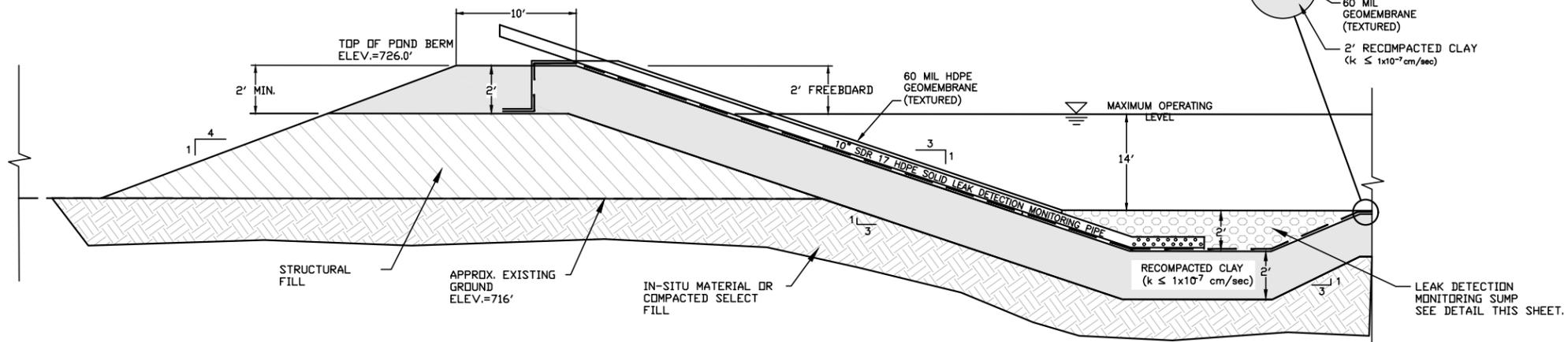
TYPICAL FORCEMAIN CLEAN-OUT

N.T.S.

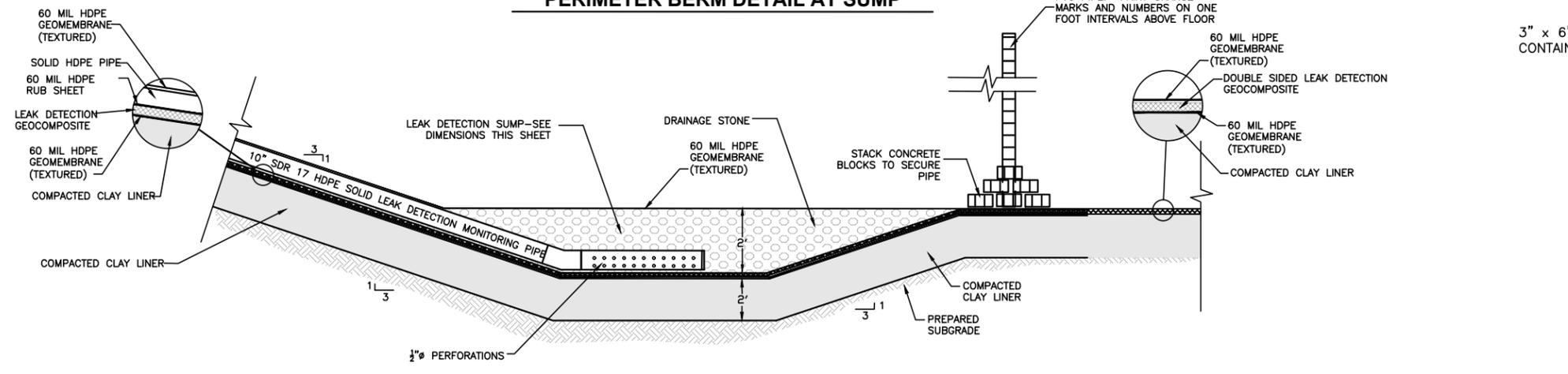


LEAK DETECTION MONITORING PIPE PERFORATION DETAIL

N.T.S.

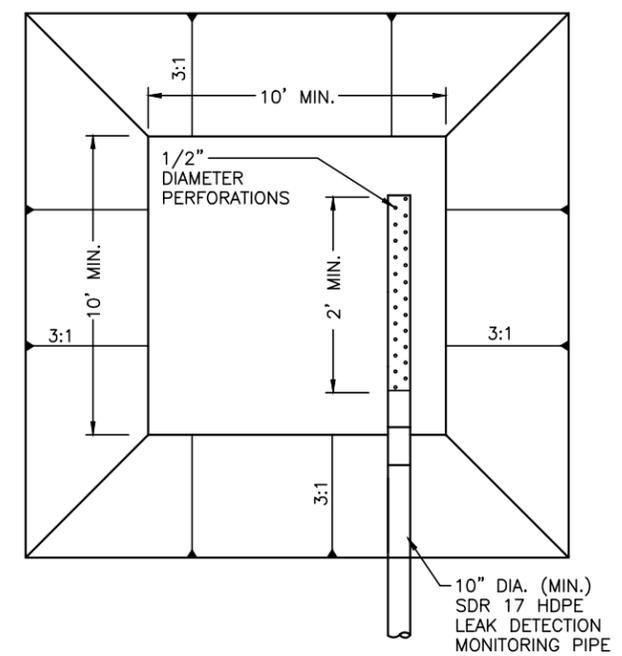


TYPICAL LEACHATE EVAPORATION POND PERIMETER BERM DETAIL AT SUMP



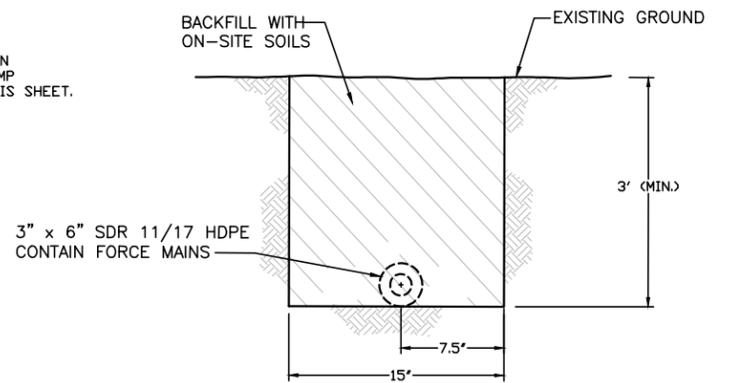
TYPICAL LEACHATE EVAPORATION POND SUMP

N.T.S.



LEAK DETECTION MONITORING SUMP PLAN VIEW

N.T.S.



TYPICAL LEACHATE FORCEMAIN TRENCH

N.T.S.



NOTES:

1. STRUCTURAL FILL SHALL MEET THE SAME SPECIFICATIONS AS THE CLAY LINER.

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Civil & Environmental Consultants, Inc.
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LEACHATE EVAPORATION PONDS
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EVAPORATION POND DETAILS

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DATE: 11/24/25	DWG SCALE: AS NOTED	PROJECT NO: 352-875	

**ECD LANDFILL
ELLIS COUNTY, TEXAS
TCEQ PERMIT NO. MSW-1745B**

PERMIT MODIFICATION

PART IV - SITE OPERATING PLAN

Prepared for

Ellis County Landfill TX, LP

TCEQ Approved July 13, 2006

Revised April 2008

Revised September 2017

Revised January 2019

Revised January 2026

Prepared by

Civil & Environmental Consultants, Inc.

TBPE Registration No. F-38

1221 S. Mopac Expressway, Suite 350

Austin, Texas 78746

CEC Project 352-874



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APPENDIX IVA

Example Load Inspection Report

APPENDIX IVB

Alternative Daily Cover Operating Plan Information

APPENDIX IVC

Waste Acceptance Plan Approval Letter



the initial 5 feet of waste placed over the liner system, (2) large items are placed so that they do not interfere with continued waste filling, and (3) that other, smaller municipal solid waste is placed and compacted around them.

4.10 Air Quality and Odor Management Plan

The site will comply with all the applicable air quality rules and regulations. The site will be required to operate in accordance with the New Source Performance Standards (NSPS) for MSW landfills.

Steps will be taken to limit the impact of the facility's operation on air quality. Among the measures to be employed are the following:

- Accidental fires will be controlled as outlined in Section 7 of this SOP.
- Open burning of waste will not be permitted at this facility.
- Incoming waste will be promptly compacted into the working face area. Daily cover will be placed consistent with the procedures specified in Section 4.18.2.
- Poned water at the site will be controlled as detailed in Section 4.19 of this SOP.

The GCCS will be expanded and operated in accordance with all applicable requirements. The site management team (e.g., Landfill Manager, Environmental Manager, and General Manager) will verify that ECD Landfill does not violate any applicable air quality and/or LFG requirements (refer to the Landfill Gas Management Plan for more information). The Environmental Manager is responsible for verifying and documenting compliance with the site's operating permit and any other applicable regulations. Current permits will be maintained in the Site Operating Record.

The site management team will maintain the required probe monitoring data and GCCS records as described in the Landfill Gas Management Plan.

Odors shall be controlled at the site and will be reduced if they occur in accordance with this Odor Management Plan. Sources of landfill odor can vary considerably and may include the wastes being delivered to the landfill, the open working face, surface emissions from the covered portion of the landfill, or the leachate collection system. Many of the wastes received at a landfill are a source of odor upon receipt, such as sludge and dead animals. Other wastes have the potential for becoming a source of odor by their biodegradable characteristics, generating gases as they advance through the decomposition process. Leachate may also be a source of odor if not properly handled or disposed of in a timely manner. See Attachment 15 for odor control procedures related to the leachate evaporation ponds. Among the measures that may be employed to reduce potential odors are the following.

ATTACHMENT E

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