

## **BIGGS & MATHEWS ENVIRONMENTAL**

*Consulting Engineers ♦ Hydrogeologists*

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Mansfield ♦ Wichita Falls

February 18, 2020

Chance Goodin  
MC 124  
Municipal Solid Waste Permits Section  
Texas Commission on Environmental Quality  
12100 Park 35 Circle, Bldg. F  
Austin, Texas 78753

Re: Permit Modification – Attachment 14  
Hillside Recycling and Disposal Facility, TCEQ Permit No. 532B  
Grayson County, Texas

Dear Mr. Goodin:

On behalf of our client, Waste Management of Texas, Inc. (WMTX), please find attached a permit modification to modify the site's existing Attachment 14 – Landfill Gas Management Plan (LGMP) to include the installation of a passive landfill gas (LFG) trench. The purpose of the trench is to address LFG that has been detected in LFG monitoring probe GP-3.

Additional/replacement pages for the site's LGMP are included in Attachment 4. The following summarizes the changes made to the existing LGMP:

- The Attachment 14 cover page has been updated to reflect the revision date of January 2020.
- Section 6 was expanded to describe the 2020 GCCS upgrades.

In addition, an updated existing site plan, along with a layout drawing and detail for the passive trench were added. The replacement/additional drawings are:

- Figure 14D-5: Existing LFG System [Updated]
- Figure 14D-6B: 2020 Remediation Upgrades [Added]
- Figure 14D-8: Passive LFG Trench Details [Added]

### **Purpose**

The primary purpose for the installed passive LFG trench is to aid in the collection of LFG that was previously present in GP-3.

### **Passive LFG Trench**

The passive LFG trench was installed outside the limits of waste near GP-3 as shown on figure 14D-6B. The trench was constructed with perforated piping and gravel bedding. In addition, vertical risers with turbines were installed along portions of the trench to apply a slight vacuum to the system. The passive LFG trench was constructed as shown on figure 14D-8.

### **Schedule**

Installation of the passive LFG trench was completed between December 9, 2019 and December 13, 2019. Since installation of the passive LFG trench, methane levels in GP-3 have returned below the regulatory limit. GP-3 will continue to be monitored monthly until there are six consecutive months of readings below the regulatory limit and then GP-3 will return to quarterly monitoring.

If methane levels should once again rise above the regulatory limit during the monthly monitoring period and remain there twelve (12) months from the date of this letter, WMTX will contact the TCEQ to discuss further remediation measures.

### **Permit Modification Justification**

WMTX understands the importance of maintaining effective environmental controls at the landfill. The primary purpose for the addition of the passive LFG trench is to remediate LFG migration outside of waste as detailed in the remediation plan submitted for GP-3. Please process this permit modification request per 30 TAC §305.70(k)(3), which requires public notice.

One original and one copy of the permit modification are provided for your use and distribution. To facilitate your review, we have included copies of the permit revisions in both clean and redline/strikeout formats. In addition, one copy has been provided to the appropriate regional office. A copy of this submittal has also been placed in the site operating record.

Chance Goodin  
February 18, 2020  
Page 3

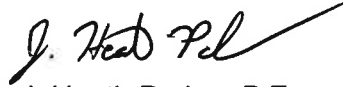
Please contact us if you have any questions or comments regarding this submittal.

Sincerely,

BIGGS & MATHEWS ENVIRONMENTAL



Austin L. Montgomery, P.E.  
Project Engineer



J. Heath Parker, P.E.  
Principal Engineer

- Attachment 1: Permit Modification Application Form
- Attachment 2: Land Ownership List/Map
- Attachment 3: Permit Replacement Pages (Redline/Strikeout Format)
- Attachment 4: Permit Replacement Pages

cc: TCEQ Region 4  
Guy R. Campbell, Waste Management of Texas, Inc.  
Heather Lehrmann, Waste Management of Texas, Inc.  
Keith Sharon, Waste Management of Texas, Inc.  
Ross Boring, Waste Management of Texas, Inc.

**ATTACHMENT 1**

**PERMIT MODIFICATION APPLICATION FORM**



**Facility Name:** Hillside Recycling & Disposal Facility  
**Permittee/Registrant Name:** Waste Management of Texas, Inc.  
**MSW Authorization #:** 523B  
**Initial Submittal Date:** 2/18/2020  
**Revision Date:**



## Texas Commission on Environmental Quality

### Permit/Registration Modification and Temporary Authorization Application Form for an MSW Facility

#### 1. Reason for Submittal

- Initial Submittal                       Notice of Deficiency (NOD) Response

#### 2. Authorization Type

- Permit     Registration

#### 3. Application Type

- Modification with Public Notice                       Modification without Public Notice  
 Temporary Authorization (TA)                       Modification for Name Change/Transfer

#### 4. Application Fees

- Pay by Check     Online Payment

If paid online, e-Pay Confirmation Number: 582EA000379147

#### 5. Application URL

Is the application submitted for a permit/registration modification with public notice?

- Yes     No

If the answer is "Yes", enter the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted in the space provided:

<https://www.wm.com/wm/permits-texas/permits.jsp>

#### 6. 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."

**7. General Facility Information**

Facility Name: Hillside Recycling & Disposal Facility  
MSW Authorization No.: 523B  
Regulated Entity Reference No.: 100217512  
Physical or Street Address (if available): 1100 Nelson Road  
City: Sherman County: Grayson State: TX Zip Code: 75090  
(Area code) Telephone Number: 972-842-5710  
Latitude: 33°35'0.4" N Longitude: 96°32'9.2" W

**8. 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 |

**9. Description of the Revisions to the Facility**

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

The purpose of this permit modification is to modify the site's Attachment 14 - Landfill Gas Management Plan to incorporate a passive vent trench installed for the purpose of mitigating LFG migration. This permit modification is being submitted under §305.70(k)(3).

**10. Facility Contact Information**

**Site Operator (Permittee/Registrant) Name:** Waste Management of Texas, Inc.

Customer Reference No. (if issued)\*: CN 603572132

Mailing Address: 9821 Katy Freeway, Suite 700

City: Houston County: Harris State: TX Zip Code: 77024

(Area Code) Telephone Number: 713-647-5454

E-mail Address: hlehrmann@wm.com

TX Secretary of State (SOS) Filing Number: 22300000

\*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 Name<sup>1</sup>:** Same as Site Operator (Permittee/Registrant)

Customer Reference No. (if issued)\*: CN

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-mail Address:

Charter Number:

<sup>1</sup>If 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):** Biggs and Mathews Environmental

Texas Board of Professional Engineers Firm Registration Number: F-256

Mailing Address: 1700 Robert Road, Suite 100

City: Mansfield County: Tarrant State: TX Zip Code: 76063

(Area Code) Telephone Number: 817-563-1144

E-Mail Address: hparker@biggsandmathews.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:

**11. Ownership Status of the Facility**

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

Yes                       No

If the answer is "No", skip this section.

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:**

Street or P.O. Box:

City:                                      County:                                      State:                                      Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

Charter Number:

**Signature Page**

I, Guy R. Campbell, Engineering Manager, North Texas,  
(Site Operator (Permittee/Registrant)'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: *Guy R. Campbell*

Date: 2-18-2020

-----  
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

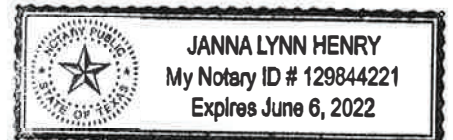
SUBSCRIBED AND SWORN to before me by the said Guy R. Campbell

On this 18<sup>th</sup> day of February, 2020

My commission expires on the 6<sup>th</sup> day of June, 2022

*Janna Lynn Henry*  
Notary Public in and for

Tarrant County, Texas  
(Note: Application Must Bear Signature & Seal of Notary Public)



## Permit/Registration Modification with Public Notice

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

### Required Attachments

	<b>Attachment No.</b>
Land Ownership Map	2
Land Ownership List	2
Marked (Redline/Strikeout) Pages	3
Unmarked Revised Pages	4

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

- Signatory Authority
- Fee Payment Receipt
- Confidential Documents

**ATTACHMENT 2**  
**LAND OWNERSHIP LIST/MAP**

**HILLSIDE RECYCLING AND DISPOSAL FACILITY  
ADJACENT PROPERTY OWNERS  
(From Grayson County Records, January 13, 2020)**

- |    |   |    |   |
|----|---|----|---|
| 1  | GRAHAM JOHN HAMILTON M MD<br>4817 PARKVIEW PLACE<br>ARLINGTON TX 76005    | 15 | DAWSON LEHMAN<br>1905 WEBB SMITH RD<br>SHERMAN TX 75090                     |
| 2  | GAINES JAMES L ETUX TERESA M<br>1446 WEBB SMITH RD<br>SHERMAN TX 75090    | 16 | ORR CHRISTINE LEE<br>1849 WEBB SMITH ROAD<br>SHERMAN TX 75090               |
| 3  | HOLLOWAY MAX B ETUX MARKA L<br>1335 TRIBBLE RD<br>SHERMAN TX 75090        | 17 | SMITH RUSSELL<br>523 DICKSON CIR<br>SHERMAN TX 75090                        |
| 4  | RICKERSON GWEN<br>7618 POST BRIDGE RD<br>SPRING TX 77389-3472             | 18 | SCALLY RANDY EUGENE ETUX MARGARET<br>599 REDBUD LN<br>SHERMAN TX 75090-3783 |
| 5  | OVERMAN KENNETH J ETUX LYNN M<br>1344 WEBB SMITH RD<br>SHERMAN TX 75090   | 19 | WALKER DOYLE ETUX KATHY<br>637 CEDAR RD<br>SHERMAN TX 75090                 |
| 6  | BLAIR JUDI LYNN ETVIR WALTER RAY<br>1270 TRIBBLE RD<br>SHERMAN TX 75090   | 20 | TRIBBLE GEORGE PRESTON<br>P O BOX 558<br>TOM BEAN TX 75489                  |
| 7  | CONFIDENTIAL OWNER<br>3208 HARTFORD DR<br>FLOWER MOUND TX 75028           | 21 | MADISON ROBERT W<br>462 REDBUD LN<br>SHERMAN TX 75090-3782                  |
| 8  | COX BEN<br>69 SOUTHGALE RD<br>DENISON TX 75021                            | 22 | LIPSKEY SCOTT M ETUX LESLIE E<br>285 REDBUD LN<br>SHERMAN TX 75090          |
| 9  | DICK JOHN A & RHONDA D<br>1294 WEBB SMITH RD<br>SHERMAN TX 75090-3767     | 23 | MURPHY FAMILY TRUST<br>324 REDBUD LN<br>SHERMAN TX 75090                    |
| 10 | PINA CORY A ETUX DEBORAH J<br>1194 WEBB SMITH RD<br>SHERMAN TX 75090-3737 | 24 | CHAMPION WAYNE P & ANTHALINE C<br>286 RED BUD LN<br>SHERMAN TX 75090        |
| 11 | TURNER TONA SUE<br>1950 WEBB SMITH RD<br>SHERMAN TX 75090                 | 25 | PAYNE CARL E<br>206 REDBUD LN<br>SHERMAN TX 75090-3779                      |
| 12 | RUSSELL LARRY J ETUX VICKI<br>1960 WEBB SMITH RD<br>SHERMAN TX 75090      | 26 | HAWKINS LARRY<br>316 WATKINS RD<br>SHERMAN TX 75090-9461                    |
| 13 | SETTLE TERRY LYN<br>1931 WEBB SMITH RD<br>SHERMAN TX 75090                | 27 | GEARHART JASON A<br>199 REDBUD LN<br>SHERMAN TX 75090                       |
| 14 | PEASE MICHAEL<br>2085 WEBB SMITH RD<br>SHERMAN TX 75090                   | 28 | COX TOMMY D<br>160 REDBUD LANE<br>SHERMAN TX 75090-3748                     |



**HILLSIDE RECYCLING AND DISPOSAL FACILITY  
ADJACENT PROPERTY OWNERS  
(From Grayson County Records, January 13, 2020)**

- 29 CRANFORD HAROLD D ETUX DARLA A  
136 REDBUD LN  
SHERMAN TX 75090
  
- 30 REEVES STEVEN PAUL ETUX LIGEIA MECHELLE  
122 REDBUD LN  
SHERMAN TX 75090-3748
  
- 31 BURGEN LARRY L  
94 REDBUD LN  
SHERMAN TX 75090
  
- 32 KARLESKINT MICHAEL A ETUX JANE M  
424 WATKINS RD  
SHERMAN TX 75090
  
- 33 DETZEL JASON ETUX TRISHA  
638 WATKINS RD  
SHERMAN TX 75090
  
- 34 MOTAHARNIA PAULA ANNE & AL  
650 WATKINS RD  
SHERMAN TX 75090
  
- 35 BILLINGS BARRY B & VICKY D  
668 E WATKINS DR  
SHERMAN TX 75090
  
- 36 MONK TOMMY E ETUX JOYCE  
732 WATKINS RD  
SHERMAN TX 75090
  
- 37 LEE LYNN REVOC TRUST  
101 S HANLEY RD STE 1075  
SAINT LOUIS MO 63105-3438



**ATTACHMENT 3**

**PERMIT REPLACEMENT PAGES  
(REDLINE/STRIKEOUT FORMAT)**

**HILLSIDE RECYCLING AND DISPOSAL FACILITY  
GRAYSON COUNTY, TEXAS  
TCEQ PERMIT NO. MSW-523B**

**MAJOR PERMIT AMENDMENT APPLICATION**

**PART III – SITE DEVELOPMENT PLAN  
ATTACHMENT 14  
LANDFILL GAS MANAGEMENT PLAN**

Prepared for



**Waste Management of Texas, Inc.**

September 2005  
Revised May 2007  
Revised April 2010  
Revised February 2020



*Austin L. Montgomery*  
2/18/2020

Prepared by



**BIGGS & MATHEWS ENVIRONMENTAL**

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

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

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS  
FIRM REGISTRATION NO. 50222



The 2010 landfill gas system upgrades, as shown on Figure 14D-6A, will include the installation of two horizontal gas collectors and associated landfill collection piping. In addition, one existing decommissioned LFG extract well will be reconnected and one existing horizontal collection trench (HOZ-18A) will be abandoned. HOZ-18A will be abandoned because it is no longer operational.

The 2020 landfill gas remediation upgrades, as shown on Figure 14D-6B, included a passive LFG trench that was installed outside of waste in the vicinity of GP-3. The trench includes a horizontal perforated pipe and rock backfill within the trench along with four vertical risers. In addition, turbine ventilators were added to each vertical riser as shown in Figure 14D-8.



**ATTACHMENT 4**  
**PERMIT REPLACEMENT PAGES**

**HILLSIDE RECYCLING AND DISPOSAL FACILITY  
GRAYSON COUNTY, TEXAS  
TCEQ PERMIT NO. MSW-523B**

**MAJOR PERMIT AMENDMENT APPLICATION**

**PART III – SITE DEVELOPMENT PLAN  
ATTACHMENT 14  
LANDFILL GAS MANAGEMENT PLAN**

Prepared for



**Waste Management of Texas, Inc.**

September 2005  
Revised May 2007  
Revised April 2010  
Revised February 2020

Prepared by



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

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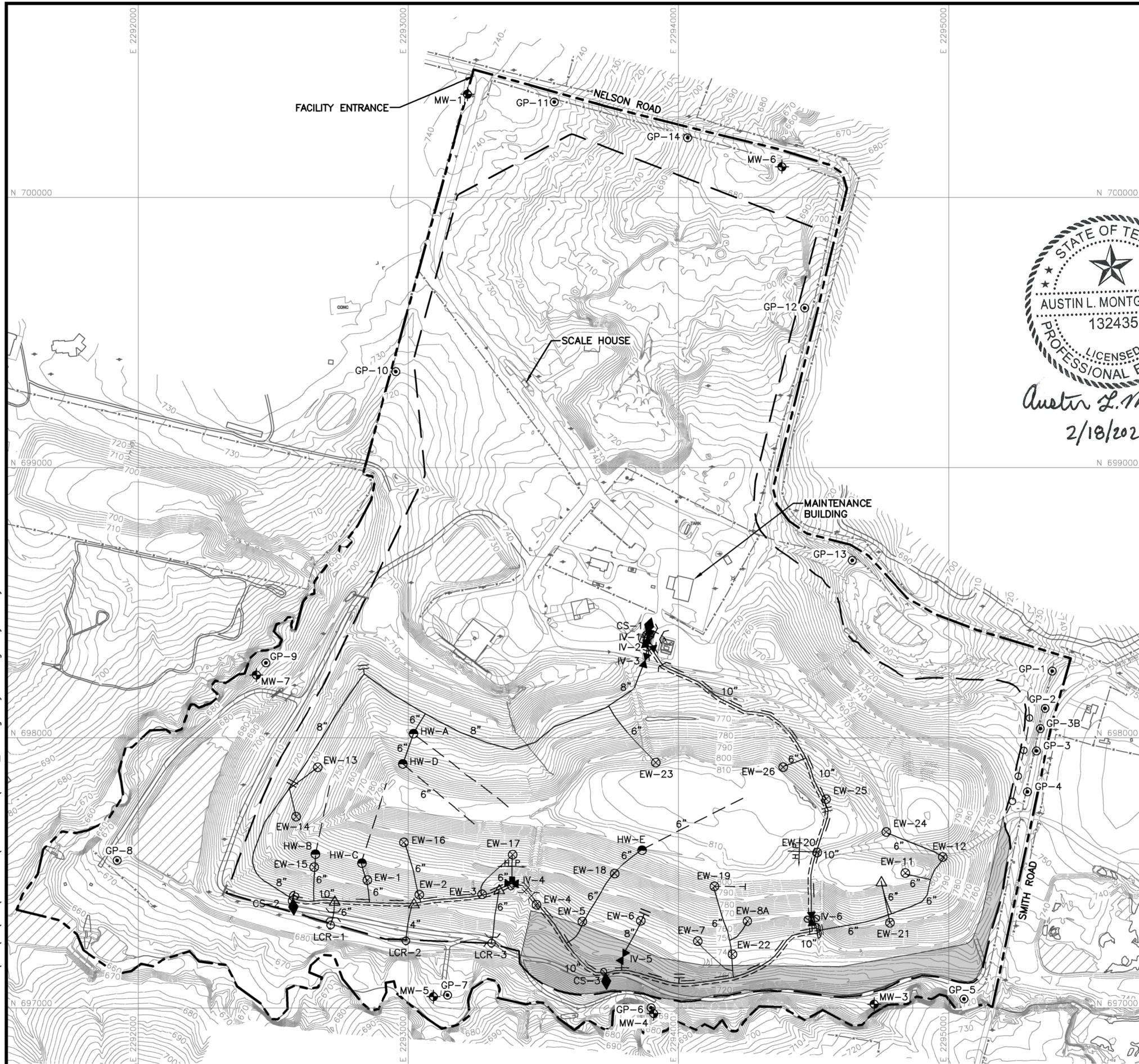
*Austin L. Montgomery*  
2/18/2020

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















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 Austin L. Montgomery  
 2/18/2020


- LEGEND**
-  PERMIT BOUNDARY
  -  PERMITTED LIMITS OF WASTE
  -  EXISTING CONTOUR
  -  STATE PLANE COORDINATE SYSTEM
  -  EXISTING LIMITS OF FINAL COVER
  -  EXISTING LFG MONITORING PROBE
  -  EXISTING GROUNDWATER MONITORING WELL
  -  EXISTING LFG EXTRACTION WELL
  -  EXISTING LEACHATE CLEANOUT RISER CONNECTION
  -  EXISTING HORIZONTAL LFG COLLECTOR
  -  EXISTING LFG COLLECTION PIPING
  -  EXISTING AIR SUPPLY LINE
  -  EXISTING CONDENSATE FORCEMAIN
  -  EXISTING TRENCH WELL
  -  EXISTING PASSIVE LFG TRENCH
  -  EXISTING AIR/FORCEMAIN VALVE
  -  EXISTING AIR STUB
  -  EXISTING ISOLATION VALVE
  -  EXISTING CONDENSATE SUMP
  -  EXISTING REMOTE WELLHEAD
  -  EXISTING BLIND FLANGE

**NOTE:**  
 1. TOPOGRAPHIC MAPPING PREPARED BY DALLAS AERIAL SURVEYS, INC. FROM AERIAL PHOTOGRAPHY FLOWN MARCH 10, 2018.

**EXISTING LFG SYSTEM**

**WASTE MANAGEMENT OF TEXAS, INC.**  
**HILLSIDE RECYCLING & DISPOSAL FACILITY**

PERMIT AMENDMENT



**BIGGS & MATHEWS**  
 ENVIRONMENTAL  
 CONSULTING ENGINEERS  
 MANSFIELD • WICHITA FALLS  
 817-563-1144

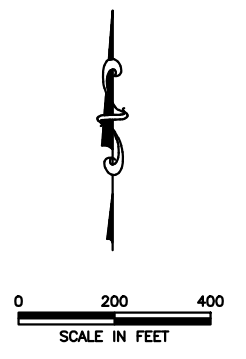
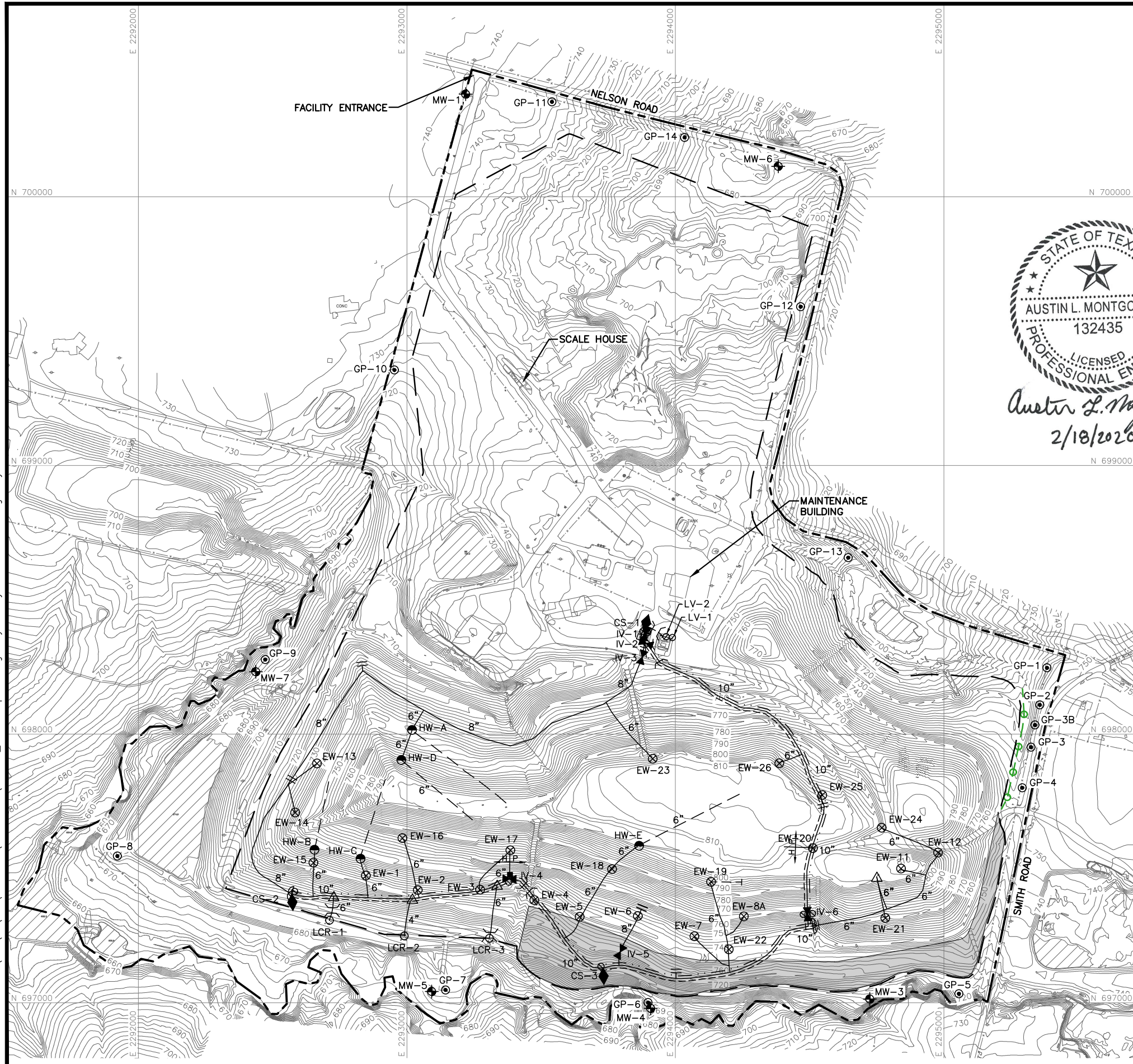
**FOR PERMITTING PURPOSES ONLY**

REVISIONS					DATE	DESCRIPTION

DSN. ALM		DATE : 02/2020		<b>FIGURE</b> <b>14D-5</b>
DWN. SRC		SCALE : GRAPHIC		
CHK. JHP		DWG : 14D-5_ExistingLFGSystem.dwg		

J:\101\11\901\2020 LFG\Permit Mod\14D-5\_ExistingLFGSystem.dwg Layout: Layout1 User: CWilborn





- LEGEND**
- PERMIT BOUNDARY
  - PERMITTED LIMITS OF WASTE
  - 690 --- EXISTING CONTOUR
  - N 700000 --- STATE PLANE COORDINATE SYSTEM
  - EXISTING LIMITS OF FINAL COVER
  - GP-1 EXISTING LFG MONITORING PROBE
  - ◆ MW-1 EXISTING GROUNDWATER MONITORING WELL
  - ⊗ EW-11 EXISTING LFG EXTRACTION WELL
  - LCR-2 EXISTING LEACHATE CLEANOUT RISER CONNECTION
  - HW-A EXISTING HORIZONTAL LFG COLLECTOR
  - EXISTING LFG COLLECTION PIPING
  - EXISTING AIR SUPPLY LINE
  - EXISTING CONDENSATE FORCEMAIN
  - EXISTING TRENCH WELL
  - EXISTING AIR/FORCEMAIN VALVE
  - EXISTING AIR STUB
  - ▶ IV-6 EXISTING ISOLATION VALVE
  - ◆ CS-3 EXISTING CONDENSATE SUMP
  - △ EXISTING REMOTE WELLHEAD
  - || EXISTING BLIND FLANGE
  - ⊥ EXISTING HDPE CAP
  - PROPOSED PASSIVE LFG TRENCH

**NOTE:**  
 1. TOPOGRAPHIC MAPPING PREPARED BY DALLAS AERIAL SURVEYS, INC. FROM AERIAL PHOTOGRAPHY FLOWN MARCH 10, 2018.

**2020  
 REMEDIATION UPGRADES  
 WASTE MANAGEMENT OF TEXAS, INC.  
 HILLSIDE RECYCLING & DISPOSAL FACILITY**



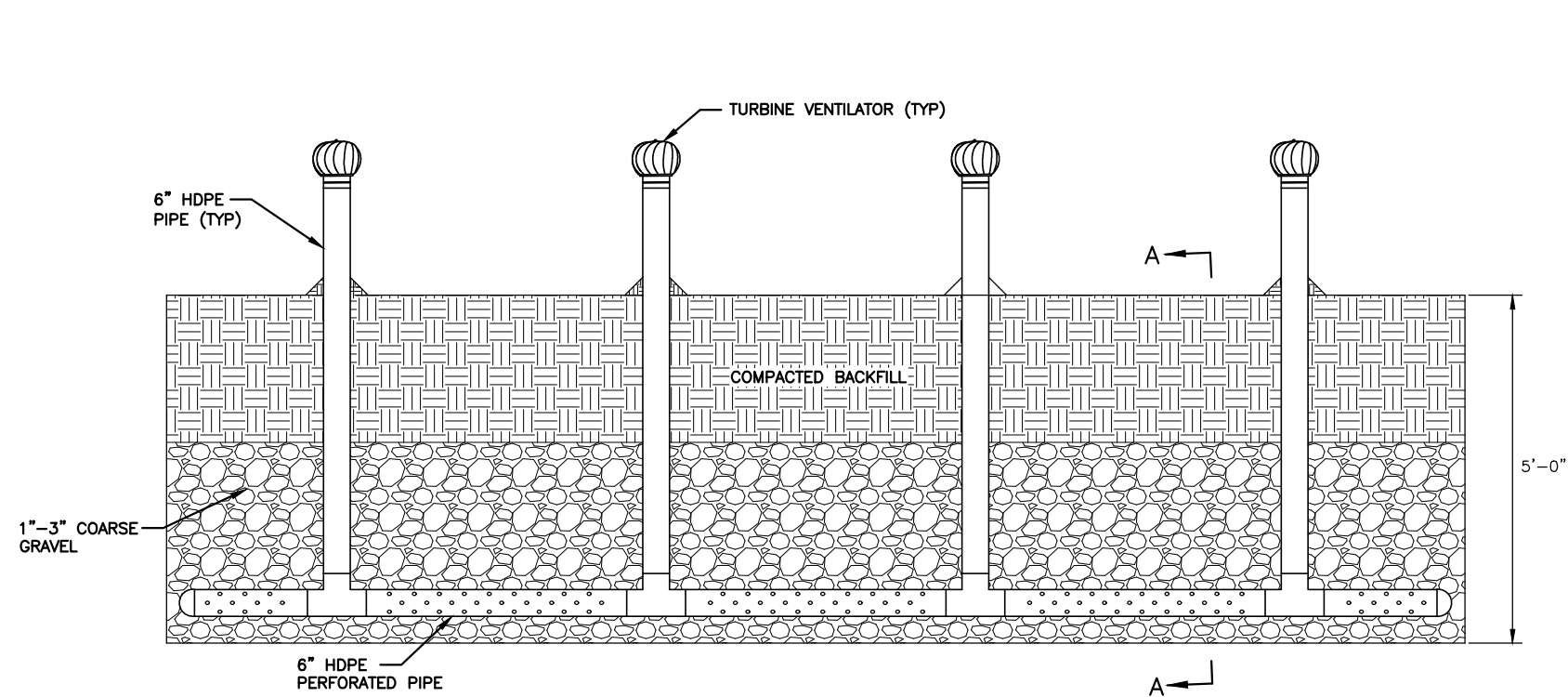
**BIGGS & MATHEWS**  
 ENVIRONMENTAL  
 CONSULTING ENGINEERS  
 MANSFIELD • WICHITA FALLS  
 817-563-1144

**FOR PERMITTING PURPOSES ONLY**

REVISIONS						TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN. ALM	DATE : 02/2020	FIGURE
							DWN. SRC	SCALE : GRAPHIC	14D-6B
							CHK. JHP	DWG : 14D-6B_2020 Proposed.dwg	

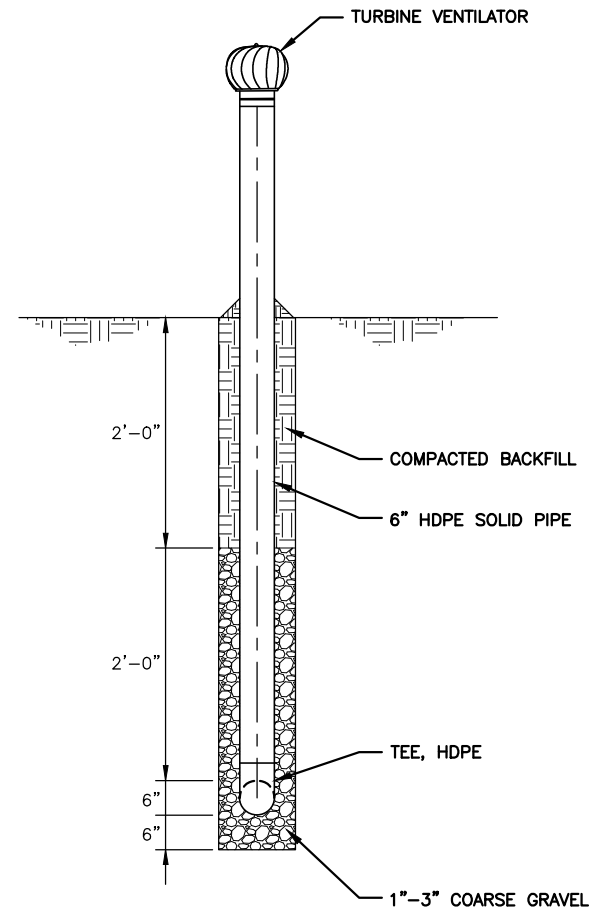
J:\101\11\901\2020 LFG\Permit Mod\14D-6B\_2020 Proposed.dwg Layout: Layout1 User: amontgomery

J:\101\11\901\2020 LFG\Permit Mod\14D-8\_LFGTrench.dwg Layout: Layout1 User: amontgomery



**PASSIVE LFG TRENCH**  
NTS

**NOTE:**  
1. ALL SIZES AND DIMENSIONS ARE APPROXIMATE.



**SECTION A-A**  
NTS

**NOTE:**  
1. ALL SIZES AND DIMENSIONS ARE APPROXIMATE.



*Austin L. Montgomery*  
2/18/2020

**PASSIVE LFG TRENCH DETAILS**

**WASTE MANAGEMENT OF TEXAS, INC.**  
**HILLSIDE RECYCLING & DISPOSAL FACILITY**



**BIGGS & MATHEWS**  
ENVIRONMENTAL  
CONSULTING ENGINEERS  
MANSFIELD • WICHITA FALLS  
817-563-1144

**FOR PERMITTING PURPOSES ONLY**

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

TBPE FIRM NO. F-256		TBPGE FIRM NO. 50222	
DSN. ALM	DATE : 02/2020	FIGURE	
DWN. SRC	SCALE : GRAPHIC	14D-8	
CHK. JHP	DWG : 14D-8_LFGTrench.dwg		