



# Texas Commission on Environmental Quality

## Waste Permits Division Correspondence

### Cover Sheet

Date: 06/26/2023

Facility Name: City of Waco Transfer Station Facility

Permit or Registration No.: \_\_\_\_\_

Nature of Correspondence:

☐ Initial/New

☒ Response/Revision to TCEQ Tracking No.:  
28604235 (from subject line of TCEQ letter  
regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

**Table 1 - Municipal Solid Waste Correspondence**

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Other: <b>Subchapter T Development Permit Application</b>	

**Table 2 - Industrial & Hazardous Waste Correspondence**

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	

June 26, 2023  
SCS Project No. 16222063.00

Mr. Asmerom T. Russom  
Municipal Solid Waste Permits Section MC-124  
Texas Commission on Environmental Quality  
12015 Park 35 Circle, Building F, Suite 1201  
Austin, Texas 78753

*Sent via FedEx*

Subject: Subchapter T Development Permit Application for Enclosed Structure  
New Building for MSW Transfer Station at City of Waco Landfill, MSW Permit No. 1039  
Proposed Development Permit Application No. - TBA  
Response to Notice-of-Deficiency (NOD) Email, Dated June 6, 2023  
McLennan County, Texas.  
Tracking No. 28604235; RN TBA/CN600131940

Dear Mr. Russom:

In response to your June 6, 2023 comments provided by email, we have provided responses to your numbered comments in bold italics below along with revised text and drawings. We have included one (1) original and two (2) unmarked copies (**see Attachment 1**), and one (1) marked copy (**see Attachment 2**) of the revisions. A separate copy of the revisions has been sent to the region office.

1. Provide a Core Data Form (CDF) for the proposed transfer station. Please note that the transfer station will be a separate regulated entity and cannot be consolidated with the landfill permit (MSW 1039).

Response:

***A CDF has been provided with this response.***

2. Revise the application to exclude MSW 1039 that references the transfer station. For example, remove the incorrect MSW number (MSW 1039) assignment for drawing Figure 1, and in the title page of the application. Revise all applicable parts of the application. A new MSW No. will be assigned once we receive a new CDF.

Response:

***The following drawings have been revised to remove the reference to "MSW 1039":***

- ***1- Landowners Map***
- ***9.1 - Site Plan;***
- ***10.1 - General Location Map;***
- ***10.2 - Site Location Map;***
- ***13.1 - Methane Barrier Detail;***
- ***20.3 - Sensor Plan;***
- ***C1 - Paving and Utility Plan;***
- ***C2 - Grading and Drainage plan;***
- ***C3 - Cross-Sections;***
- ***C4 - Details-1; and***

- **C5 – Details-2**

***Also, the title page and Section 5 of the application have been revised accordingly.***

3. Section 16 of Form TCEQ-20785 indicates the facility name as “City of Waco Landfill.” Choose a different regulated entity name for the proposed transfer station.

Response:

***Section 16 of Form TCEQ-20785 has been revised to reflect the new facility name as “City of Waco Transfer Station Facility,” and the RN has also been deleted since it is associated with Permit No. MSW-1039.***

4. Put accurate acreage of the property. Check Section 16 of Form TCEQ-20785 (44-acre) versus Attachment 8, Section 8, of the application (44.74-acre).

Response:

***Note, the Section 16 and Attachment 8 references in the comment appear to be in error. However, the property area referenced in Section 7 of Form TCEQ-20785 and Section 8 of the application have been revised to 43.482 acres to be consistent with Section 8, Attachment A – Boundary Survey and Legal Description.***

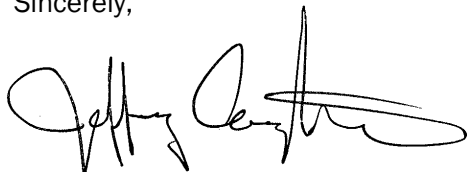
5. In the Introduction Section of the application, indicate the footprint square footage of the proposed enclosed structures.

Response:

***Section 1 of the application has been revised to indicate the footprint area of the proposed enclosed structures as well as the Citizens’ Collection Station. Additionally, Section 1 of the application and Drawings 9.1, C1, C2 and C3, have been revised for consistency when referencing “Citizens’ Collection Station” (i.e., instead of similar use of the phrase) throughout the application when referring to this facility.***

A copy of the NOD response with the revised documents has been sent to the Waco office of the TCEQ Region 9. Should you have any comments or questions after reviewing this request, please call Jeff Arrington at (817) 358-6111.

Sincerely,



Jeff Arrington, P.E.  
Project Manager  
**SCS Engineers**  
TBPE Registration No. F-3407



Sandeep Saraf, P.E.  
Senior Project Manager  
**SCS Engineers**

Attachments: As noted above

cc: TCEQ Region 9, Waco.  
Mr. Kody Petillo, City of Waco (e-copy)



# Texas Commission on Environmental Quality

## Application for Development Permit for Proposed Enclosed Structure Over Closed Municipal Solid Waste Landfill

### Application Tracking Information

Applicant Name: City of Waco

Facility Name: City of Waco Transfer Station Facility

Development Permit Number: TBA

Initial Submission Date: 05/03/2023

Revision Date: 06/16/2023

Use this form to apply for a development permit for proposed enclosed structure over a closed municipal solid waste (MSW) landfill. Rules about use of land over a closed MSW landfill are in [Title 30, Texas Administrative Code](#)<sup>1</sup>, Chapter 330, Subchapter T. Instructions for completing this form are provided in form [TCEQ 20785-instr](#)<sup>2</sup>. Include a Core Data Form, available at [www.tceq.texas.gov/goto/coredata](http://www.tceq.texas.gov/goto/coredata) with the application. If you have questions, contact the Municipal Solid Waste Permits Section by email to [mswper@tceq.texas.gov](mailto:mswper@tceq.texas.gov), or by phone at 512-239-2335.

If you have an existing enclosed structure, use form [TCEQ-20786](#)<sup>3</sup>, Registration for Existing Enclosed Structure Over Closed Municipal Solid Waste Landfill. If you are proposing a non-enclosed structure, use form [TCEQ-20787](#)<sup>4</sup>, Authorization to Disturb Final Cover Over Closed Municipal Solid Waste Landfill for Non-Enclosed Structure.

### Application Data

#### 1. Application Type

☒ New Development Permit ☐ Revisions of Existing Permit

☐ Transfer of an Existing Permit

If existing Permit, indicate the Permit Number: \_\_\_\_\_

#### 2. Submission Type

☒ Initial Submission ☐ Notice of Deficiency (NOD) Response

<sup>1</sup> [www.tceq.texas.gov/goto/view-30tac](http://www.tceq.texas.gov/goto/view-30tac)

<sup>2</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20785-instr.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20785-instr.pdf)

<sup>3</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20786.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20786.pdf)

<sup>4</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20787.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20787.pdf)

### 3. Application Fee

The application fee for a development permit is \$2,500.

☒ Paid by Check

☐ Paid Online

If paid online, ePay Confirmation Number: \_\_\_\_\_

### 4. Enrollment in Other TCEQ Programs

Indicate if the site is enrolled in the Voluntary Cleanup Program or other Remediation Program.

☐ Yes ☒ No

If Yes, indicate the program: \_\_\_\_\_

### 5. Development Type

Is the development a single-family or double-family home that is not part of a housing subdivision?

☐ Yes ☒ No

If "Yes", the construction is exempt from the development permit requirement.

### 6. Enclosed Structure Description

Provide a brief description of the proposed enclosed structure for which the development permit is requested.

The proposed facilities will include a new MSW transfer station, scale house building and scales, a citizens' collection station, and a new paved access drive with parking for trucks and vehicles.

### 7. Soil Tests

Size of the property (acres): 43.482

Was the existence of the landfill determined through:

☐ Test I

☐ Test II

☐ Test III

☒ Other. Please describe: Permitted Landfill (MSW Permit No. 1039)

If soil tests were performed prior to development in accordance with 30 TAC §330.953, the test results shall be included in this application.

## 8. Notification of MSW Landfill Determination

If soil tests were used to determine the presence of a closed MSW landfill, provide evidence that the engineer who performed the soil tests has notified the following persons of that determination in accordance with 30 TAC §330.953(d).

- ☐ Each owner and lessee
- ☐ Executive Director
- ☐ Local Government Officials
- ☐ Regional Council of Governments

## 9. Landfill Permit Status

What is the permit status of the landfill?

- ☐ Active MSW Permit
- ☒ Landfill in Post-Closure Care
- ☐ Revoked MSW Permit
- ☐ Non-Permitted Landfill

If the landfill is still in the post-closure care period subject to an active MSW Permit, this development permit application for proposed enclosed structures shall be accompanied by a Permit Modification application prepared in accordance with 30 TAC §305.70, and by a certification signed by an independent engineer in accordance with 30 TAC §330.957(b)(2).

If the landfill has completed the post-closure care period, but the MSW permit has not been revoked (site affected by an active MSW Permit), a Voluntary Revocation request of the MSW Permit shall be submitted in accordance with 30 TAC §330.465 prior to the submittal of this development permit application for proposed enclosed structures over a closed MSW landfill.

## 10. Application URL

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 box below:

<https://www.waco-texas.com/Transfer-Station-Permitting>

## 11. Public Place for Copy of Application

Name of the Public Place: Waco - McLennan County Library

Physical Address: 1717 Austin Ave

City: Waco County: McLennan State: TX Zip Code: 76701

Phone Number: (254) 750-5941

Normal Operating Hours: 10:00AM to 9:00PM (Monday to Wednesday), 10: 00AM to 6PM (Thursday to Saturday) & 1:00PM to 5:00PM (Sunday)

## 12. Party Responsible for Publishing Notice

Indicate who will be responsible for publishing notice:

☐ Applicant ☒ Consultant

Contact Name: Jeff Arrington, P.E.

Title: Project Manager

Email Address: JArrington@scsengineers.com

## 13. Alternative Language Notice

Use the Alternative Language Checklist on Public Notice Verification Form TCEQ-20244-Waste-NAORPM available at [www.tceq.texas.gov/permitting/waste\\_permits/msw\\_permits/msw\\_notice.html](http://www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html) to determine if an alternative language notice is required.

Is an alternative language notice required for this application?

☐ Yes ☒ No

Indicate the alternative language: \_\_\_\_\_

## 14. 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."

## 15. Permits and Construction Approvals

Mark the following tables to indicate status of other permits or approvals.

### Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Zoning Approval			X
Preliminary Subdivision Plan			X
Final Plat			X
Fire Inspector's Approval			X
Building Inspector's Approval on Plans			X
Water Service Tap			X
Wastewater Service Tap			X
On-site Wastewater Disposal System Approval			X

### Other Environmental Permits

Other Environmental Permits (list)	Received	Pending

## 16. General Project Information

Facility Name: City of Waco Transfer Station Facility

SubT Development Permit Number (if available): \_\_\_\_\_

Regulated Entity Reference Number (if issued): **RN** \_\_\_\_\_

Street or Physical Address: S University Parks Drive

City: Waco County: McLennan State: TX Zip Code: 76712

Phone Number: 254-299-2623

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



## 17. Contact Information

### Applicant (Lessee/Project Owner)

Name: Kody Petillo

Customer Reference Number (if issued): **CN** 600131940

Mailing Address: P.O. Box 2570

City: Waco County: McLennan State: TX Zip Code: 76702

Phone Number: 254-750-6627

Email Address: KodyP@wacotx.gov

*If Customer Reference Number has not been issued, complete a Core Data Form (TCEQ-10400) and submit it with this application. List the Applicant as the Customer.*

### Property Owner

Name: Same as Site Operator

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

*If the Property Owner is the same as Applicant, indicate "Same as "Applicant".*

### Consultant (if applicable)

Firm Name: SCS Engineers

Texas Board of Professional Engineers and Land Surveyors Firm Number: F-3407

Mailing Address: 1901 Central Dr. Suite 550

City: Bedford County: Tarrant State: TX Zip Code: 76021

Consultant Name: SCS Engineers

Phone Number: 817-358-6111

Email Address: JArrington@scsengineers.com

### Engineer Who Performed Soil Tests

Firm Name: Langerman Engineering

Texas Board of Professional Engineers and Land Surveyors Firm Number: F-13144

Mailing Address: 2000 South 15th Street

City: Waco County: McLennan State: TX Zip Code: 76706

Engineer Name: Scott M. Langerman, P.E.

Phone Number: 254-235-1048

Email Address: slangerman@lfectx.com

## 18. Other Governmental Entities Information:

### Fire Chief, Fire Marshal or Fire Inspector Information

Fire Department Name: Waco Fire Department  
Person's Name: Mr. Gregory Summer  
Mailing Address: 1016 Columbus Ave  
City: Waco County: McLennan State: TX Zip Code: 76702  
Phone Number: 254-750-1740  
Email Address: \_\_\_\_\_

### Local Floodplain Authority (if applicable)

Authority Name: Floodplain Administrator  
Contact Person's Name: Mr. Zane Dunnam  
Street or P.O. Box: 215 N. 5th At. Suite 130  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-757-5028  
Email Address: Engineer@co.mclennan.tx.us

### City Mayor Information

City Mayor's Name: Mr. Dillion Meek  
Office Address: 300 Austin Ave.  
City: Waco County: McLennan State: TX Zip Code: 76702  
Phone Number: 254-750-5600  
Email Address: Dillion.Meek@wacotx.gov

### City Health Authority Information

Contact Person's Name: Ms. LasShonda M. Marley-Horen  
Office Address: 225 W. Waco Drive  
City: McLennan County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-750-5492  
Email Address: lasdondam@wacotx.gov

**Director of Public Works**

Department Name: City of Waco-Director of Public Works  
Contact Person's Name: Ms. Amy Burlarley-Hyland, P.E.  
Office Address: 401 Franklin Ave  
City: Waco County: McLennan State: TX Zip Code: 760701  
Phone Number: 254-750-5440  
Email Address: \_\_\_\_\_

**Director of Utilities**

Utility Name: City of Waco-Director of Utilities  
Contact Person's Name: Ms. Lisa Tyer  
Office Address: 200 Concord Avenue  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-299-2489  
Email Address: \_\_\_\_\_

**Director of Planning**

Agency Name: City of Waco-Director of Planning  
Contact Person's Name: Mr. Clint Peters  
Office Address: 401 Franklin Ave  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-750-5624  
Email Address: \_\_\_\_\_

**Building Inspector**

Agency Name: City of Waco Inspection Services Department  
Contact Person's Name: Mr. Chris Valtierra  
Office Address: 401 Franklin Ave  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-750-5612  
Email Address: \_\_\_\_\_

**County Judge Information**

County Judge's Name: Mr. Scott Felton  
Office Address: 501 Washington Avenue, Room 214  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-757-5049  
Email Address: \_\_\_\_\_

**County Engineer Information**

County Engineer's Name: Mr. Zane Dunnam  
County Engineer's P.E. Registration No.: \_\_\_\_\_  
Office Address: 215 N. 5th St. Suite 130  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-757-5028  
Email Address: \_\_\_\_\_

**County Health Authority**

Agency Name: Waco-McLennan County Public Health District  
Contact Person's Name: Ms. LaShonda M. Marley-Horne  
Office Address: 225 W. Waco Drive  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-750-5492  
Email Address: lashondam@wactox.gov

**State Representative Information**

District Number: 56  
State Representative's Name: Charles Anderson  
District Office Address: 900 Austin Avenue, Suite 804  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 512-463-0135  
Email Address: \_\_\_\_\_

**State Senator Information**

District Number: 22  
State Senator's Name: The Honorable Brian Birdwell  
District Office Address: 900 Austin Avenue, Suite 500  
City: Waco County: McLennan State: TX Zip Code: 76701  
Phone Number: 254-772-6225  
Email Address: \_\_\_\_\_

**Council of Government (COG)**COG Name: Heart of Texas Council of GovernmentsCOG Representative's Name: Mr. Russell DevorskyCOG Representative's Title: Executive DirectorStreet Address or P.O. Box: 1514 S. New RoadCity: Waco County: McLennan State: TX Zip Code: 76711Phone Number: 254-292-1800Email Address: russell.devorsky@hot.cog.tx.us**Local Government Jurisdiction**

Is the property located within the limits or in the ETJ of any City?

☒ Yes ☐ No

If "Yes" city regulations may apply. Issuance of Development Permit for an Enclosed Structure does not exempt the applicant from complying with city codes and zoning.

Within City Limits of: \_\_\_\_\_

Within Extraterritorial Jurisdiction of City of: Waco**19. Deed Recordation**

☒ Verify that the property owner filed a written notice for record in the real property records in the county where the land is located in accordance with 30 TAC §330.962 stating: (a) the former use of the land; (b) the legal description of the tract of land that contains the closed MSW landfill; (c) notice that restrictions on the development or lease of the land exist in the Texas Health and Safety Code and in MSW rules; and (d) the name of the owner.

☒ A certified copy of the Notice to Real Property Records is included in this application in accordance with 30 TAC §330.957(p).

**20. Notice to Buyers, Lessees, and Occupants of the Structure**

Did the property owner give written notice to all prospective buyers, lessees and/or occupants of the structure in accordance with 30 TAC §330.963 stating the land's former use as a landfill, and the structural controls in place to minimize potential future danger posed by the closed MSW landfill?

☐ Yes ☒ New Structure Not Yet Constructed

If "Yes" certified copies of the notices shall be submitted to TCEQ in accordance with 30 TAC §330.957(p).

If "New Structure Not Yet Constructed" a draft notice to all prospective buyers, lessees and/or occupants of the proposed structure, and procedures for its implementation upon structure's construction shall be included in this application.

## 21. Notice of Lease Restrictions on the Property

Is the property leased?

☐ Yes     ☒ No

If "Yes", verify that the property owner provided written notice to all prospective lessees of the property in accordance with 30 TAC §330.964 concerning:

☐ (a) what is required to bring the property into compliance with 30 TAC Chapter 330, Subchapter T?

☐ (b) the prohibitions or requirements for future disturbance of the final cover?

☐ A certified copy of the notice is included in the application in accordance with 30 TAC §330.957(p).

## Professional Engineer's Certification of No Potential Threat to Public Health or the Environment

The applicant's engineer for this project shall complete one of the following certifications:

"I, \_\_\_\_\_, Texas PE Number \_\_\_\_\_, certify that the proposed development is necessary to reduce a potential threat to public health or the environment. Further, I certify that the proposed development will not damage the integrity or function of any component of the Closed Municipal Solid Waste Landfill Unit, including, but not limited to, the final cover, containment systems, monitoring system, or liners. This certification includes all documentation of all studies and data on which I relied in making these determinations."

Engineer's seal, with signature and date:

Engineering Firm Name: \_\_\_\_\_

Texas Board of Professional Engineers and Land Surveyors Firm Number: \_\_\_\_\_

Or:

"I, **Jeff Arrington**, Texas PE Number **61895**, certify that the proposed development will not increase or create a potential threat to public health or the environment. Further, I certify that the proposed development will not damage the integrity or function of any component of the Closed Municipal Solid Waste Landfill Unit, including, but not limited to, the final cover, containment systems, monitoring system, or liners. This certification includes all documentation of all studies and data on which I relied in making these determinations."

Engineer's seal, with signature and date:



Engineering Firm Name: **SCS Engineers**

6/16/2023

Texas Board of Professional Engineers and Land Surveyors Firm Number: **F-3407**

## Signature Page

### Applicant Certification

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: Bradley Ford Title: City Manager

Signature: [Signature] Date: 10/26/23

Email Address: bradleyf@wacotx.gov

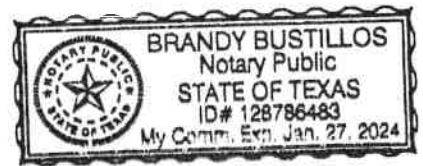
SUBSCRIBED AND SWORN to before me by the said Bradley Ford

On this 26th day of June, 2023

My commission expires on the 31st day of January, 2024

Notary's Name: Brandy Bustillos

Notary Public in and for  
McLennan County, Texas



### Property Owner Authorization

*To be completed by the property owner if the property owner is not the applicant.*

I \_\_\_\_\_, the owner of the property identified by the address \_\_\_\_\_, hereby authorize the applicant to proceed with the project described in this application, and to apply for any necessary authorizations in order to conduct this project. I understand that, as property owner, I am responsible for maintaining the integrity of the final cover over the closed MSW landfill.

Property Owner Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Email Address: \_\_\_\_\_

SUBSCRIBED AND SWORN to before me by the said \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

My commission expires on the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

Notary's Name: \_\_\_\_\_

Notary Public in and for  
\_\_\_\_\_ County, Texas



# Attachments for New Development Permit

## Required Attachments

### A. Narrative

Attachment	Attachment Number
Proposed Project Description	Section 1
Existing Conditions Summary	Section 3
Legal Authority	Section 4
Evidence of Competency	Section 5
Notice of Engineer Appointment	Section 6
Notices of Coordination with Governmental Agencies and Officials	Section 7
Geology and Soil Statement	Appendix A
Groundwater and Surface Water Statement	Section 12
Foundation Plans	Appendix B
Soil Tests	Appendix A
Closure Plan	Section 17
Structures Gas Monitoring Plan	Section 20
Site Operating Plan	Section 19
Safety and Evacuation Plan	Section 21

### B. Maps and Plans

Attachment	Attachment Number
Adjacent Landowners Map	After cover letter
Adjacent Landowners List	After cover letter
Electronic List or Mailing Labels	After cover letter
General Location Map	Section 10
General Topographic Map	Section 10
Site Layout Plan with Limits of Waste Disposal Area	Section 9
Foundation Plans	Section 13
Structure Layout Plan	Section 20
Methane Monitoring Equipment Location Plans	Section 20
Construction Details and Engineering Drawings	Section 20

**C. Copies of Legal Documents**

<b>Attachment</b>	<b>Attachment Number</b>
Property Legal Description	Section 8
Notice of Landfill Determination	N/A
Notice to Real Property Records	Section 16
Notices to Buyers, Lessees, and Occupants	Section 16
Notices of Lease Restrictions (if applies)	N/A

**Additional Attachments as Applicable**

<b>Attachment</b>	<b>Attachment Number</b>
<input type="checkbox"/> TCEQ Core Data Form(s)	N/A
<input type="checkbox"/> Confidential Documents	N/A
<input type="checkbox"/> Soil Tests Boring Logs	Appendix A
<input type="checkbox"/> Other maps, plans and engineering drawings	Appendix B
<input type="checkbox"/> Methane Monitoring Equipment Specifications	Appendix C
<input type="checkbox"/> Methane Monitoring Report	Section 20
<input type="checkbox"/> Waste Disposal Manifests	N/A
<input type="checkbox"/> Fee Payment Receipt	After cover letter
<input type="checkbox"/> Final Plat Record of Property	N/A



# TCEQ Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600131940		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Waco					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>					
City		State		ZIP	ZIP + 4
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>		<b>19. Extension or Code</b>		<b>20. Fax Number</b> (if applicable)	

(   )   -		(   )   -
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**SECTION III: Regulated Entity Information**

<b>21. General Regulated Entity Information</b> <i>(If "New Regulated Entity" is selected, a new permit application is also required.)</i>								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
<b>22. Regulated Entity Name</b> <i>(Enter name of the site where the regulated action is taking place.)</i>								
City of Waco Transfer Station Facility								
<b>23. Street Address of the Regulated Entity:</b>  <i>(No PO Boxes)</i>								
	City	Waco	State	TX	ZIP	76712	ZIP + 4	
<b>24. County</b>								

If no Street Address is provided, fields 25-28 are required.

<b>25. Description to Physical Location:</b>	1.5 miles south of the intersection of Loop Hwy 340/6 and FM 3400 (South University Parks Dr) on the east side of FM 3400 in the ETJ of the City of Waco.						
<b>26. Nearest City</b>	<b>State</b>			<b>Nearest ZIP Code</b>			
Waco	TX			76712			
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>							
<b>27. Latitude (N) In Decimal:</b>		<b>28. Longitude (W) In Decimal:</b>					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
31	29	52	97	04	51		
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)	<b>31. Primary NAICS Code</b> (5 or 6 digits)	<b>32. Secondary NAICS Code</b> (5 or 6 digits)				
4953		562111					
<b>33. What is the Primary Business of this entity?</b> <i>(Do not repeat the SIC or NAICS description.)</i>							
Municipal Solid Waste Transfer Station							
<b>34. Mailing Address:</b>	501 Schroeder Drive						
	City	Waco	State	TX	ZIP	76710	ZIP + 4
<b>35. E-Mail Address:</b>	KodyP@wacotx.gov						
<b>36. Telephone Number</b>	<b>37. Extension or Code</b>		<b>38. Fax Number</b> <i>(if applicable)</i>				
( 254 ) 750-6627			( 254 ) 750-5844				

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input checked="" type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
MSW-1039				
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

### **SECTION IV: Preparer Information**

<b>40. Name:</b>	Jeff Arrington, P.E.			<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>		
( 817 ) 358-6111		( 817 ) 571-2188	jarrington@scsengineers.com		

### **SECTION V: Authorized Signature**

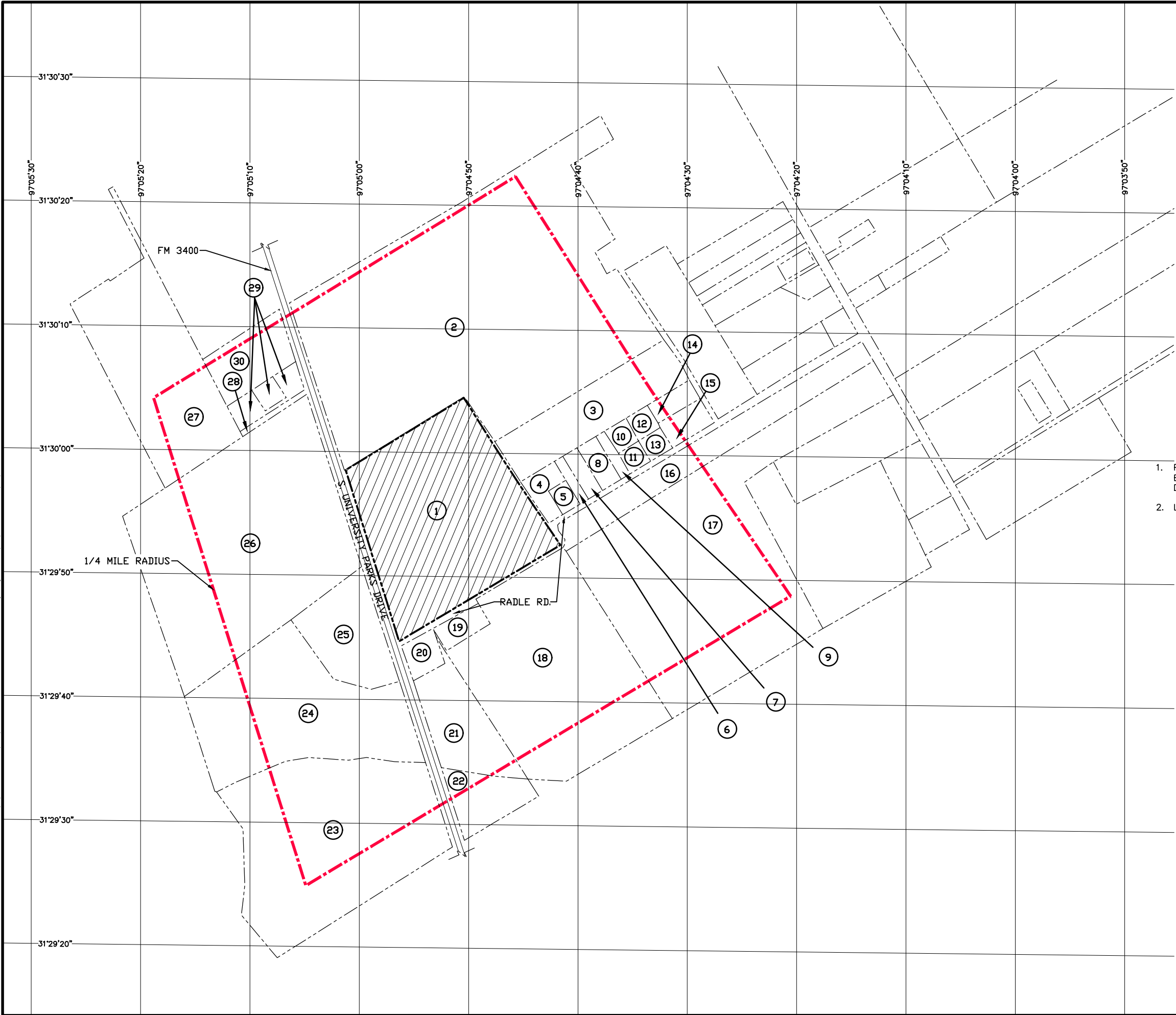
46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

<b>Company:</b>	City of Waco		<b>Job Title:</b>	City Manager	
<b>Name (In Print):</b>	Bradley Ford			<b>Phone:</b>	( 254 ) 750- 6627
<b>Signature:</b>				<b>Date:</b>	6/26/23

**ATTACHMENT 1**

**UNMARKED VERSION**

6/15/2023 8:46 PM C:\WACO\18222063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\Mod\01 - Land Ownership Map



- LEGEND**
- PERMIT BOUNDARY
  - CITY OWNED PROPERTY (43.482 ACRES)
  - ADJACENT PROPERTY BOUNDARY (SEE NOTE 1)
  - 1/4 MILE RADIUS FROM FUTURE PERMIT BOUNDARY
  - 97°04'10" LATITUDE/LONGITUDE LINES
  - ① LANDOWNER PROPERTY (SEE LANDOWNER'S LIST)
1. PROPERTY OWNERSHIP INFORMATION WITHIN 1/4 MILE OF FUTURE BOUNDARY WAS OBTAINED FROM MCLENNAN COUNTY APPRAISAL DISTRICT PROPERTY RECORDS AT [WWW.MCLENNANCAD.ORG](http://WWW.MCLENNANCAD.ORG).
2. LANDOWNER PROPERTY BOUNDARIES INDICATED ARE APPROXIMATE.



06/16/2023

FOR PERMITTING PURPOSES ONLY

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188										CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706										DRAWING TITLE LANDOWNERS MAP PROJECT TITLE CITY OF WACO TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION										REV DATE DESCRIPTION BY																			
CADD FILE: 01 - LAND OWNERSHIP MAP										DATE: 06/2023										SCALE: AS SHOWN										DRAWING NO. 1										TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407									
PROJECT NO. 162220653.00										DINK. BY EGC										C/A RW BY RRK										REV DATE DESCRIPTION BY																			
DINK. BY JA										DINK. BY SDS										APP. BY JA										REV DATE DESCRIPTION BY																			

# Subchapter T Development Permit Application (30 TAC §330.957)

City of Waco Transfer Station Facility

501 Schroeder Dr  
Waco, Texas 76710



Date: 06/16/2023

**SCS ENGINEERS**

16222063.00 | May 2023  
Revision 1 – June 2023

1901 Central Dr., Suite 550  
Bedford, TX 76021  
817-571-2288



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- A Geotechnical Site Investigation
- B Permit Level Drawings
- C Methane Monitoring Equipment Specifications
- D Landfill Safety Requirements
- E Notice of Coordination Letters
- F Certified Copy of the City Charter



# 1 INTRODUCTION AND BACKGROUND

The City of Waco is planning to develop a new municipal solid waste (MSW) transfer station over a closed landfill site (MSW Permit No. 1039) located on S. University Parks Dr. in Waco, Texas. The transfer station will be designed to process up to 1,800 tons/day of waste. The proposed facilities include a new MSW transfer station, scale house building and scales, a citizens' collection station (CCS), and a new paved access drive with parking for trucks and vehicles. The proposed transfer station building will be constructed in the northeast corner of the site, approximately 130 feet from the east property line. The City of Waco will initially develop a 180' x 120' size transfer station building (26,100 sf) with the option of expanding it to 180' x 200' (36,000 sf) in future as needed. A new paved access road will be constructed to connect the facility to South University Parks Dr. located along the western boundary of the landfill. Additional paved areas will be constructed around the transfer station to provide for access to the building for collection and transfer trucks. The scale house building will be approximately 1,600 sf. A new CCS, approximately 150' x 300' (4,500 sf) in size, will be constructed adjacent to the transfer station consisting of additional pavement and retaining walls to enable unloading into open top containers. The proposed improvements will be constructed over the final cover of the landfill and will include two enclosed structures (transfer station and scale house buildings) as defined by Subchapter T rules and, as such, requires the submittal of a development permit application (application).

This application is submitted consistent with the provisions of 30 TAC §330.957 related to construction of an enclosed structure over a closed MSW landfill unit and includes the required technical information outlined under 30 TAC §330.957(a) through (u), including:

- Foundation Plan for Gas Collection and Methane Barrier in Section 13;
- Methane Monitoring Plan in Section 20;
- Operations Plan in Sections 19-21;
- Permit-Level Drawings in Appendix B.

The individual section headings also indicate the regulatory citations within 30 TAC §330.957 that are addressed within the contents of each section. Appendix A contains the geotechnical investigation to determine the nature and thickness of the landfill cover, the investigation for the presence of methane, and recommendations for foundation and pavement construction over the closed landfill. Appendix B also contains permit-level drawings for the proposed improvements, including civil, architectural, and structural drawings. Appendix C contains methane monitoring equipment specifications, and landfill safety requirements are contained in Appendix D. Notice of coordination letters for all local, state, and federal government official and agencies are included Appendix E, and a copy of the certified City Charter is included in Appendix F.

## 2 ENGINEER'S CERTIFICATION (30 TAC §330.957(b))

Certification of no Potential Threat to Public Health or the Environment:

I, Jeff Arrington, P.E. #61895 certify that the proposed development will not increase or create a potential threat to public health or the environment. Further, I certify that the proposed development will not damage the integrity or function of any component of the Closed Municipal Solid Waste Landfill Unit, including, but not limited to, the final cover, containment systems, monitoring system, or liners. This certification includes all documentation of all studies and data on which I relied in making these determinations.



\_\_\_\_\_  
Signature/Seal

\_\_\_\_\_  
06-16-2023  
Date

## 5 EVIDENCE OF COMPETENCY (30 TAC §330.957(e))

### 5.1 City of Waco

The applicant, the City of Waco, currently owns and operates a Type I MSW Landfill, TCEQ Permit No. MSW-948A (Site 948A). This site was initially permitted under MSW Permit No. 948 on July 22, 1977, and subsequently a permit amendment was approved on September 21, 1987. While Site 948A is the only landfill that the City has operated in the last 10 years, the City previously operated the following MSW landfills, which have been closed in accordance with TCEQ requirements:

- Closed City of Waco Landfill, Permit No. MSW-1419 issued on September 3 1981, located on FM 3400 southeast of Waco; stopped accepting waste on June 17, 1986.
- Closed City of Waco Landfill, Permit No. MSW-1039 issued on July 22, 1977, located on FM 3400 southeast of Waco; stopped receiving waste on June 24, 1983.

The competency of the City of Waco to manage the transfer station is evidenced by the City's operating history over 20 years of operating Site 948A and prior closed sites in previous periods. The City of Waco has no financial interest in any solid waste facilities in any other states, territories, or countries.

As with MSW Permit No. 948A, the transfer station at the closed landfill (Permit No. MSW-1039) will be managed within the City's Solid Waste Department. Key personnel include the Director of Solid Waste and Landfill Manager both of which have experience in operation and maintenance of MSW landfills and transfer stations and at least one of which maintain a TCEQ MSW Class "A" license.

## 6 NOTICE OF APPOINTMENTS (30 TAC §330.957(f))

The notice of appointment for the applicant's engineer is included on the following page.

### NOTICE OF APPOINTMENT Engineers Appointment

Jon Niermann  
Chairman  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

Dear Mr. Niermann:

This is to advise the TCEQ that the City of Waco has duly appointed SCS Engineers as consulting and design engineers for the purpose of submitting engineering reports and planning material for a Subchapter T Development Permit Application for City of Waco Transfer Station Facility located on S. University Parks Drive at the site of the closed landfill MSW Permit No. 1039. SCS Engineers is an engineering firm employing professional engineers in good standing in accordance with State statutes, and the firm has experience in the design and construction of similar facilities. Mr. Jeff Arrington, P.E., Project Manager with SCS Engineers, is the engineer of record for this application.

The City of Waco hereby herewith authorizes TCEQ to review and comment on such reports, planning material, and data on this project as SCS Engineers may submit to you.

By: City of Waco



\_\_\_\_\_  
Signature

By: Bradley Ford, City Manager, City of Waco, Texas

## 8 LEGAL DESCRIPTION (30 TAC §330.59(h))

Consistent with 30 TAC §330.59(d), property owner affidavit and boundary survey and legal description are included on the following pages.

### PROPERTY OWNER AFFIDAVIT

The City of Waco, the owner of record of the properties described in Attachment A hereto (approximately 43.482-acre Tract, Waco, Texas), acknowledges and is aware that SCS Engineers plans to file for a permit to construct an enclosed structure upon said property.

The City of Waco acknowledges that the State of Texas may hold the City of Waco either jointly or severally responsible for the operation, maintenance, and closure of the facility.


The City of Waco acknowledges the site operator and the State of Texas shall have access to the property during the active life and post-closure care period, if required, after closure for the purpose of inspection and maintenance.

WITNESS MY HAND on this day, June, 2023.

City of Waco

Waco, TX 76798-7111

By: Bradley Ford, City Manager, City of Waco, Texas

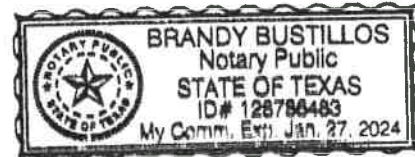
  
\_\_\_\_\_  
Signature

SWORN TO AND SUBSCRIBED BEFORE ME by the said Bradley Ford this 26th day of June, 2023, to certify which witness my hand and seal of office.

Notary Public in and for Mclennan County, Texas

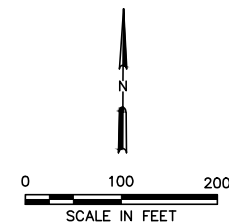
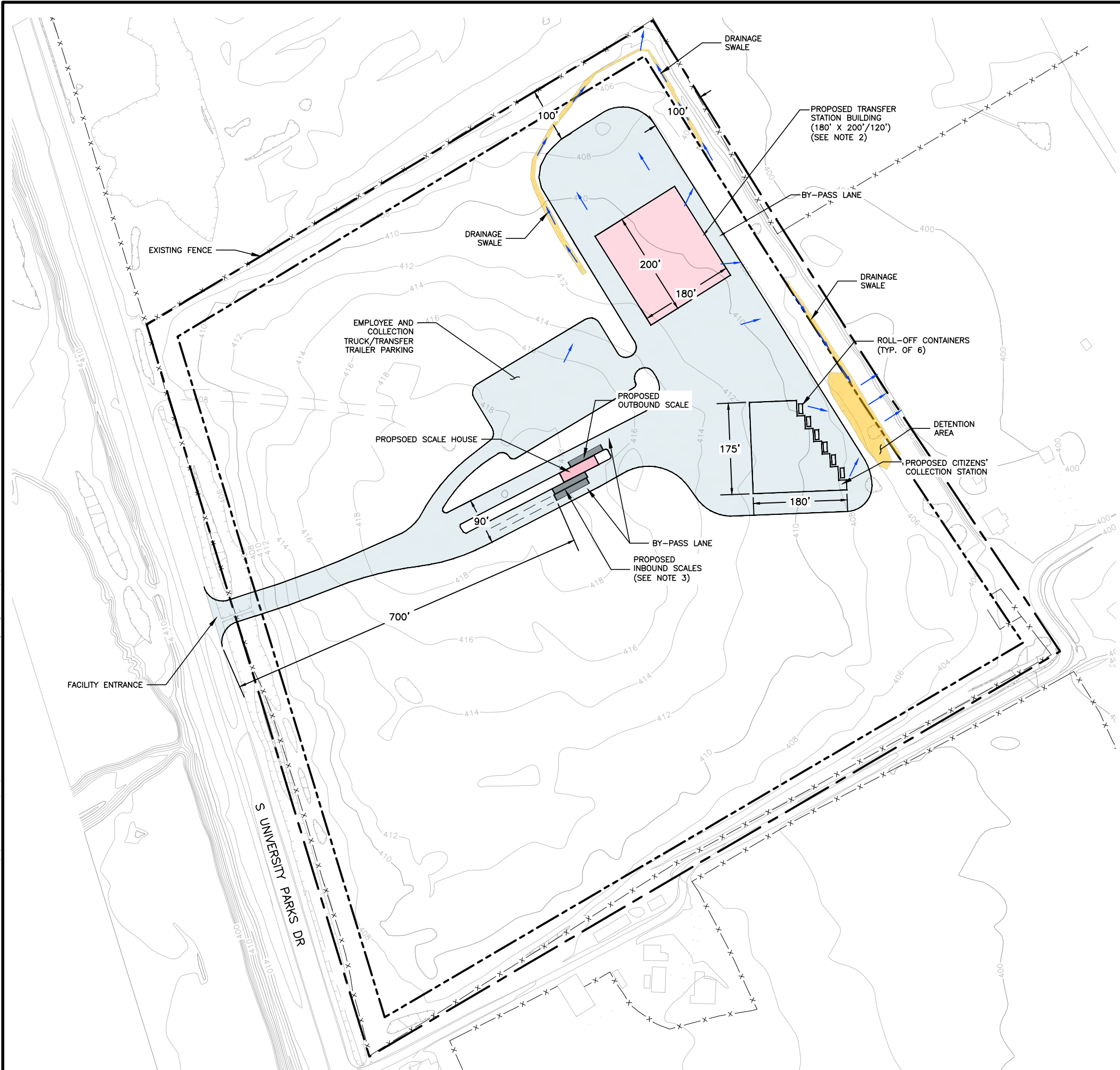
My commission expires on January 27, 2024

Printed Name Brandy Bustillos





6/21/2023 7:13 PM C:\WACO\1622063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\WD\6.1 - SITE PLAN



- LEGEND**
- PROPERTY BOUNDARY
  - - - - - APPROX. LIMITS OF WASTE (SEE NOTE 1)
  - EXISTING GRADE CONTOURS
  - X- EXISTING FENCE
  - PROPOSED PAVEMENT AREA
  - PROPOSED EROSION PROTECTION
  - SURFACE WATER FLOW ARROWS

- NOTES:**
1. APPROXIMATE LIMITS OF WASTE WERE VERIFIED BY GEOTECHNICAL INVESTIGATION DATED JANUARY 2023 (SEE APPENDIX A).
  2. INITIAL SIZE OF TRANSFER STATION WILL BE 180'X120' WITH FUTURE EXPANSION OF UP TO 200' IN LENGTH.
  3. FUTURE INBOUND SCALES WILL BE INSTALLED AS NEEDED TO ACCOMMODATE INCREASES IN THE WASTE ACCEPTANCE RATE OVER THE SITE OPERATING LIFE.
  4. ALL DIMENSIONS ARE APPROXIMATE AND WILL BE FINALIZED PRIOR TO CONSTRUCTION.



06/16/2023

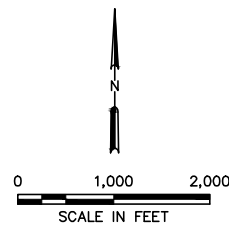
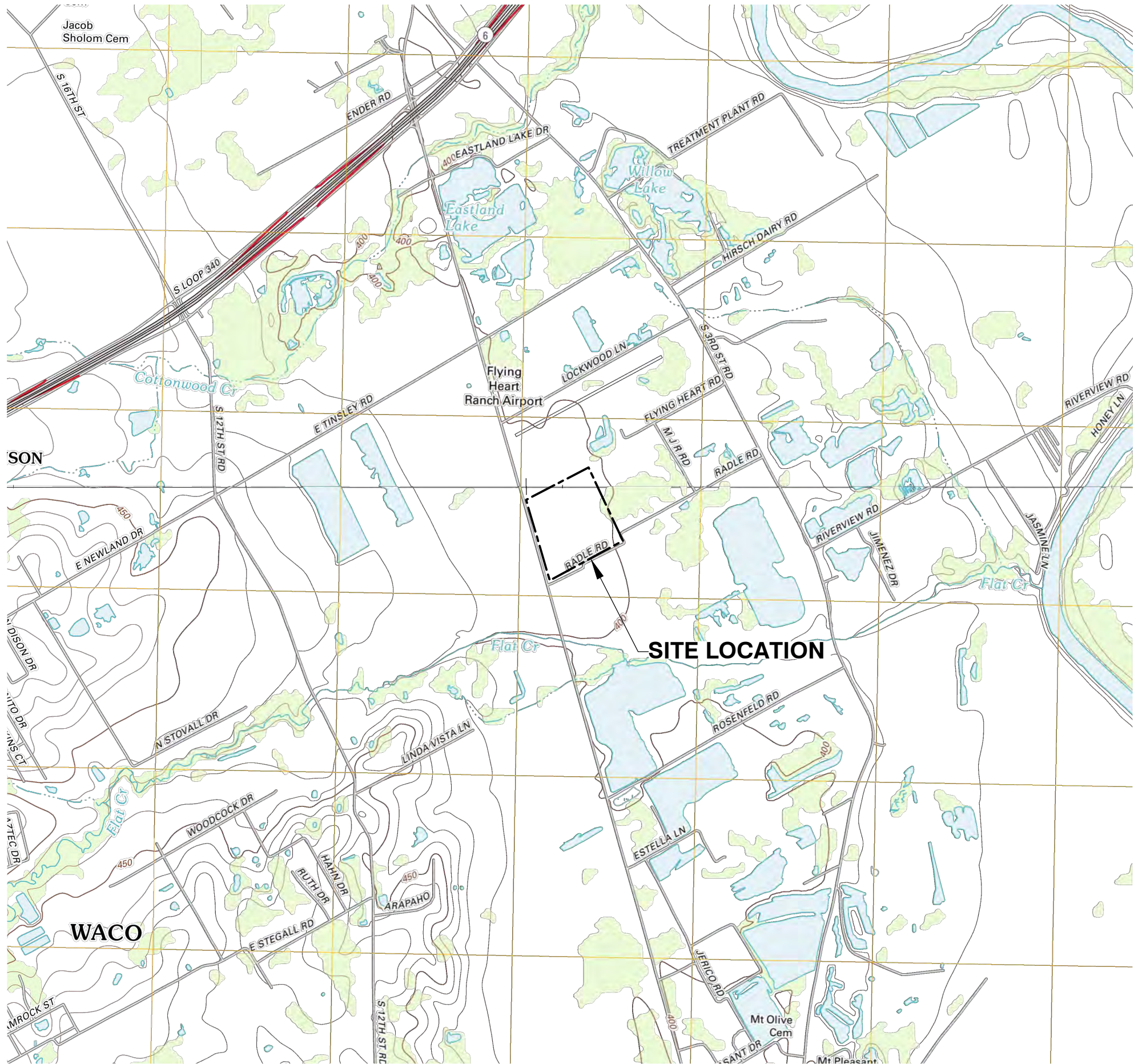
FOR PERMITTING PURPOSES ONLY

DRAWING TITLE		SITE PLAN	
CITY OF WACO		CITY OF WACO	
6165 - 5733 FM 3400		TRANSFER STATION FACILITY	
WACO, TEXAS, 76706		DEVELOPMENT PERMIT APPLICATION	
SCS ENGINEERS		REV	
STEARN, CONRAD AND SCHMIDT		DATE	
CONSULTING ENGINEERS		DESCRIPTION	
1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021		BY	
PH (817) 571-2288 FAX NO. (817) 571-2188		6/16/23	
CADD FILE:		REMOVED REFERENCES TO SITE'S	
DATE: 06/20/2023		PREVIOUS PERMIT NO., UPDATED FACILITY	
SCALE: AS SHOWN		NAME, AND UPDATED CCS CALLOUT	
DRAWING NO.		TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407	
9.1			





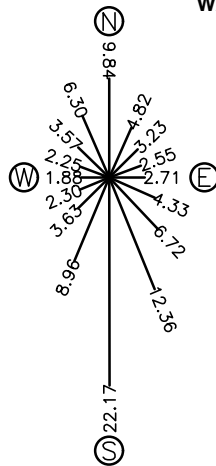




### LEGEND

- 1503 FARM TO MARKET ROAD
- 37 STATE HIGHWAY
- 38 STATE HIGHWAY LOOP
- 82 US NUMBERED HIGHWAY

### WIND ROSE WACO, TEXAS



CALM 2.81%  
WIND ROSE REPRESENTS AVERAGE PERCENT  
OF TIME WIND BLOWS FROM EACH OF THE  
16 COMPASS POINTS SHOWN.  
SOURCE:  
TNRCC-EPA  
STATION TX03927  
AVERAGE VALUES  
PERIOD ANALYZED: 1984-1992

### NOTES:

- TOPOGRAPHIC MAPPING PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) NORTH AMERICAN DATUM OF 1983 (NAD 83). EAST WACO USGS 7.5 MINUTE QUAD MAP IS USED.
- WORLD GEODETIC SYSTEM OF 1984 (WGS84). PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R. 10,000-FOOT TICKS: TEXAS COORDINATE SYSTEM OF 1983 (CENTRAL ZONE).
- NO KNOWN WATER WELLS WERE FOUND WITHIN 500 FEET OF THE PROPOSED DEVELOPMENT BOUNDARY PER THE RESULTS OBTAINED FROM THE WATER DATA INTERACTIVE WEBSITE ([HTTPS://WWW3.TWDB.TEXAS.GOV/APPS/WATERDATAINTERACTIVE/GROUNDWATERDATAVIEWER/?MAP=SDR](https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer/?MAP=SDR)) OF TEXAS WATER DEVELOPMENT BOARD.
- DRAINAGE, PIPELINE, AND UTILITY EASEMENTS WITHIN OR ADJACENT TO THE SITE WERE PROVIDED IN SECTION 8-ATTACHMENT A (BOUNDARY SURVEY AND LEGAL DESCRIPTION).
- NO SCHOOLS, LICENSED DAY CARE FACILITIES, HOSPITALS, OR OTHER HEALTH CARE FACILITIES ARE LOCATED WITHIN 1,000 FEET OF THE BOUNDARY OF THE FILL AREA.



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
1	6/16/23	REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO. AND UPDATED FACILITY NAME	JA

DRAWING TITLE	SITE LOCATION MAP
PROJECT TITLE	CITY OF WACO TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION

CLIENT	CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706
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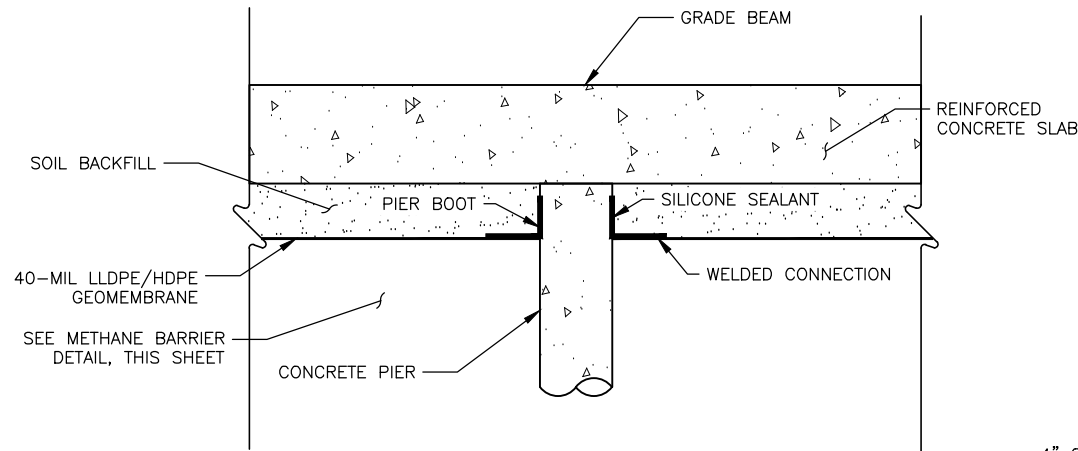
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PROJ. NO.	16222063.00
DATE	06/16/2023
BY	JA
CHECKED BY	SCS
APPROVED BY	JA

CADD FILE:	10.2 - LOCATION MAP
DATE:	06/2023
SCALE:	AS SHOWN
DRAWING NO.	10.2

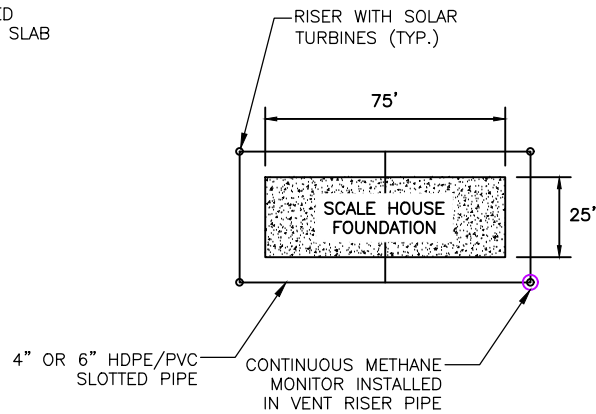
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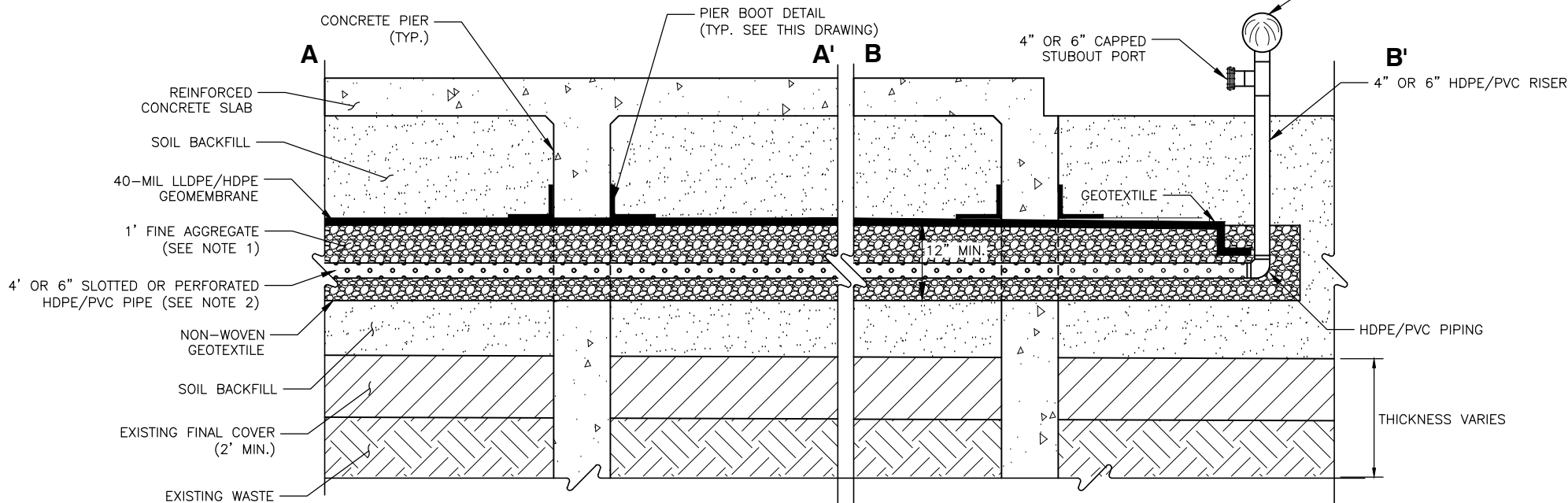
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PIER BOOT DETAIL  
NTS



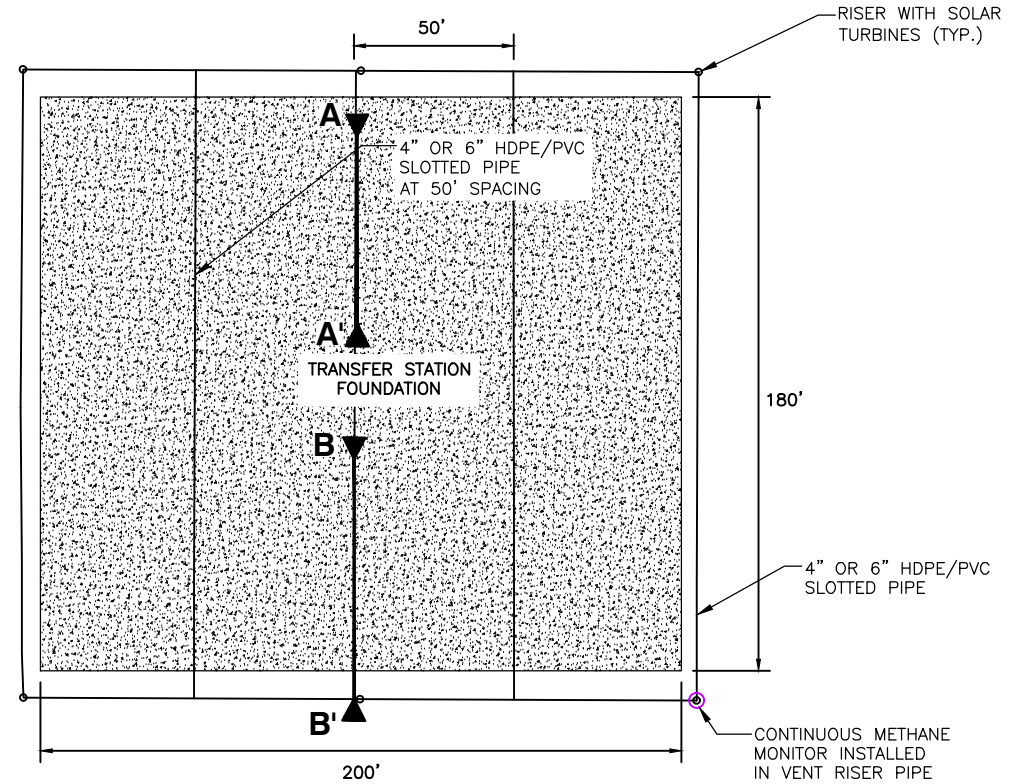
PIPING PLAN  
NTS



NOTES:

1. FINE AGGREGATE SHALL BE COARSE SAND OR FINE GRAVEL.
2. SLOTTED OR PERFORATED PIPING SHALL EXTEND AROUND THE BUILDING PERIMETER AND BENEATH SLAB AS SHOWN ON PIPING PLAN DETAIL.
3. PROVIDE FITTED HDPE BOOTS FOR A1C FOUNDATION PIERS (SEE PIER BOOT DETAIL, THIS SHEET)
4. CONTINUOUS METHANE MONITORS SHALL BE INSTALLED IN THE VENT PIPE RISER. REFERENCE PIPING PLAN (THIS PAGE) FOR VENT RISERS AND METHANE MONITOR LOCATIONS.
5. PROVIDE 4\"/>

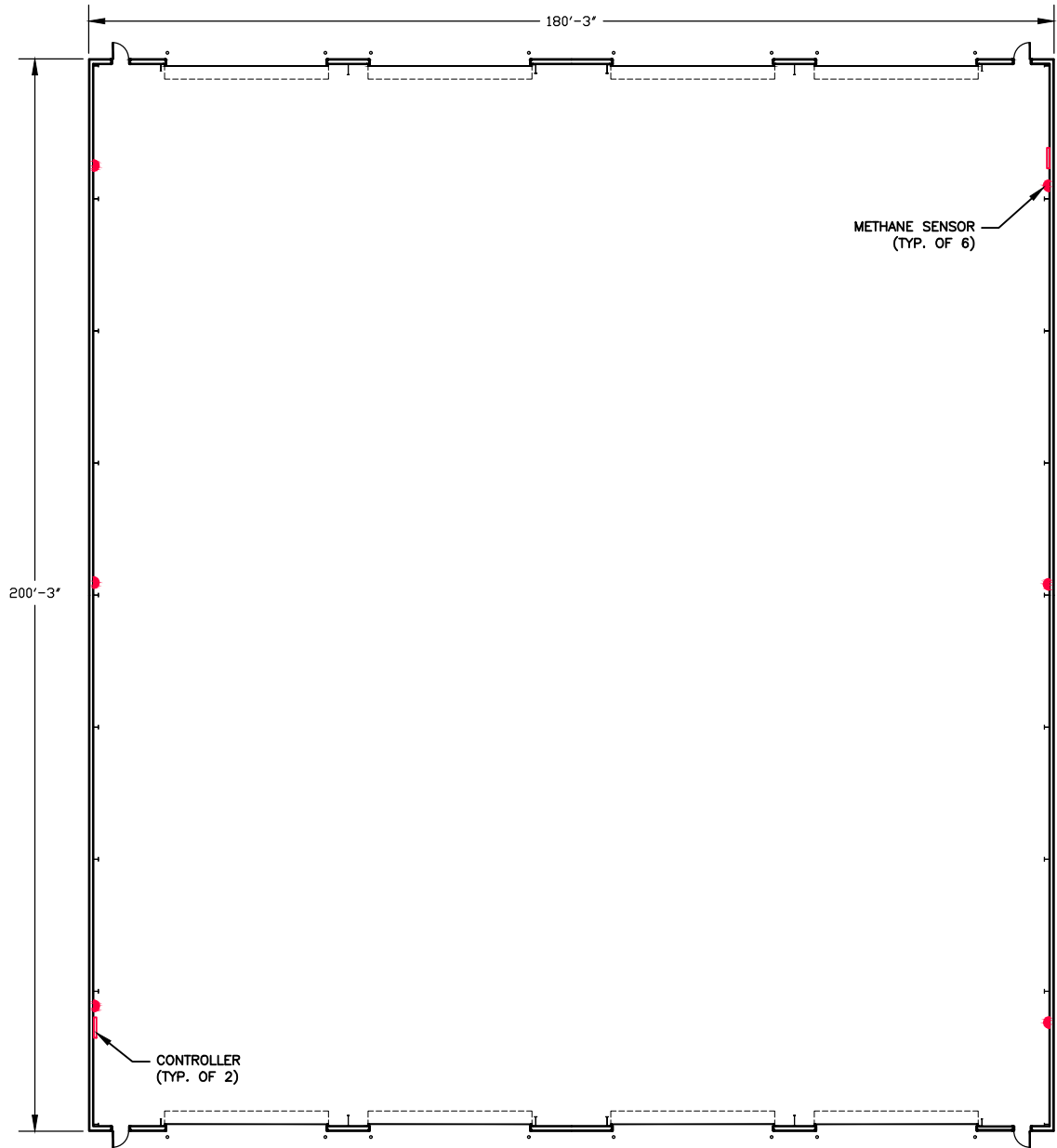
METHANE BARRIER DETAIL  
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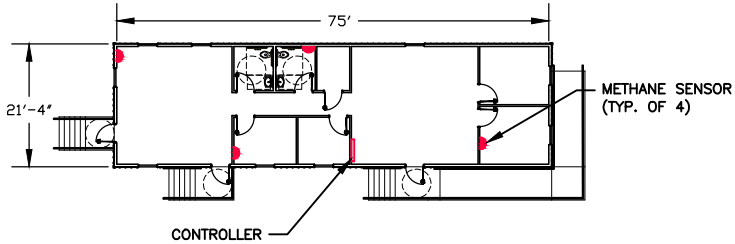
06/16/2023

FOR PERMITTING PURPOSES ONLY

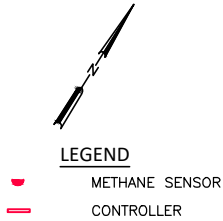
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STEARNs, CONRAD AND SCHMIDT		CONSULTING ENGINEERS		1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021		PH (817) 571-2288 FAX NO. (817) 571-2188		1		6/16/23		REMOVED REFERENCES TO SITE'S	
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**TRANSFER STATION SENSOR PLAN**  
NTS



**SCALE HOUSE SENSOR PLAN**  
NTS



- NOTES:
- PROVIDE METHANE MONITORING EQUIPMENT INSIDE THE BUILDING CONSISTING OF:
1. WALL MOUNTED CONTROLLER BEACON 410A OR EQUIVALENT.
  2. DIRECT CONNECT SENSORS MOUNTED IN LOCATIONS OF THE BUILDING THAT ARE MOST LIKELY TO HAVE LIMITED VENTILATION INCLUDING RESTROOMS AND OTHER AREAS AS SHOWN ON THE PLANS.
  3. SENSORS SHALL BE CAPABLE OF DETECTING METHANE CONCENTRATIONS AT OR BELOW 1% B.V. AND PRODUCE AN AUDIBLE ALARM AT 1% B.V.
  4. SENSORS SHALL BE DIRECTLY CONNECTED TO THE CONTROLLER UNIT PER MANUFACTURER'S INSTRUCTIONS.
  5. SENSORS ARE SPECIFIED IN APPENDIX C.



06/16/2023


FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
A	6/16/23	REMOVED REFERENCES TO SITE'S	JA
		PREVIOUS PERMIT NO. AND UPDATED	
		FACILITY NAME	
TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407			

DRAWING TITLE	CLIENT
<b>GAS SENSOR LOCATION PLAN</b>	<b>CITY OF WACO</b>
<b>PROJECT TITLE</b>	<b>6165 - 5733 FM 3400</b>
<b>CITY OF WACO</b>	<b>WACO, TEXAS, 76706</b>
<b>TRANSFER STATION FACILITY</b>	
<b>DEVELOPMENT PERMIT APPLICATION</b>	

<b>SCS ENGINEERS</b>	PROJ. NO. 16222063.00	DWN. BY: BGC	CHECK BY: SDS
STEARNS, CONRAD AND SCHMIDT	DATE: 06/16/23	APP. BY: JA	
CONSULTING ENGINEERS			
1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021			
PH (817) 571-2288 FAX NO. (817) 571-2188			

CADD FILE:	DATE:
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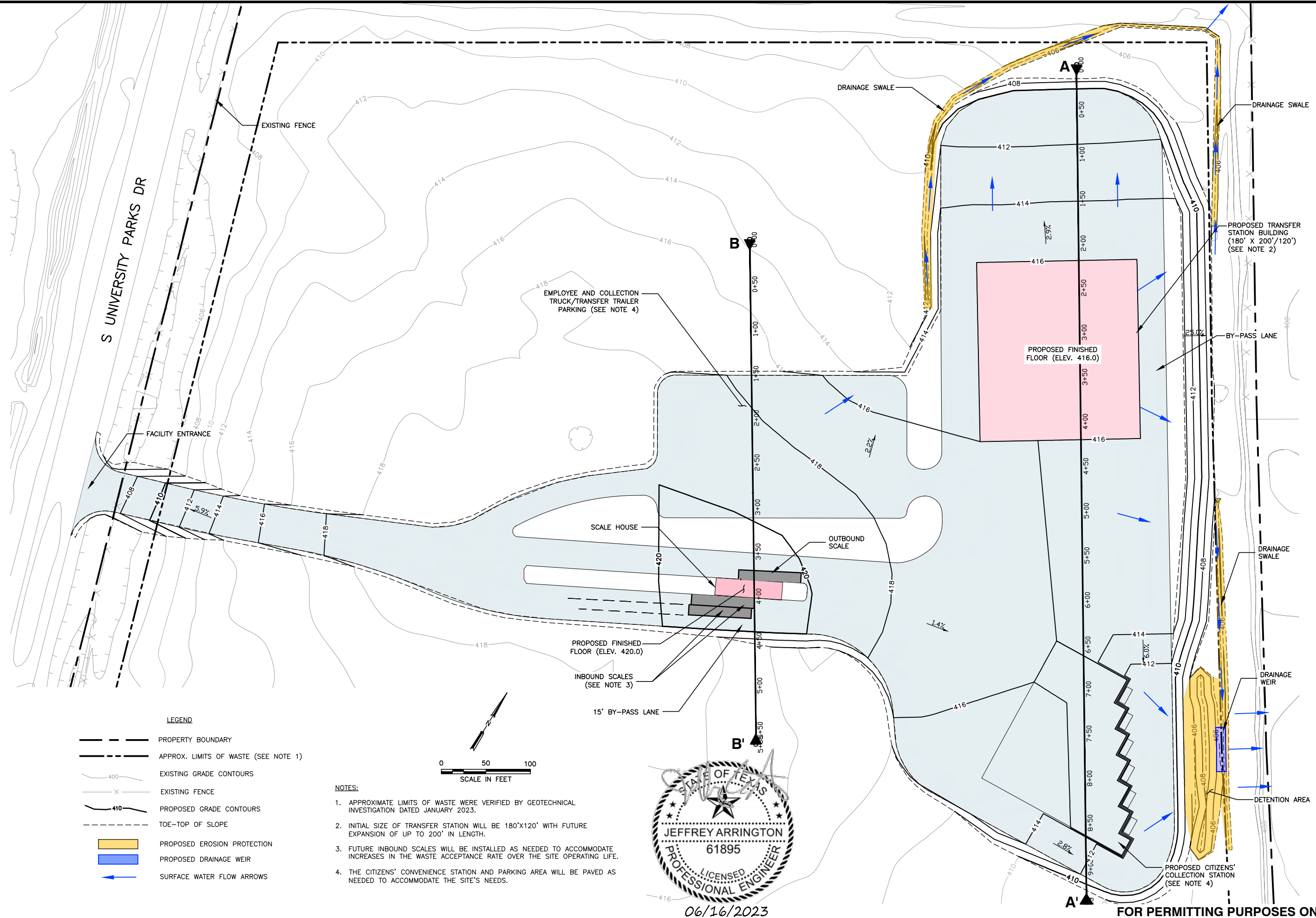


## Appendix B

### Construction Plans

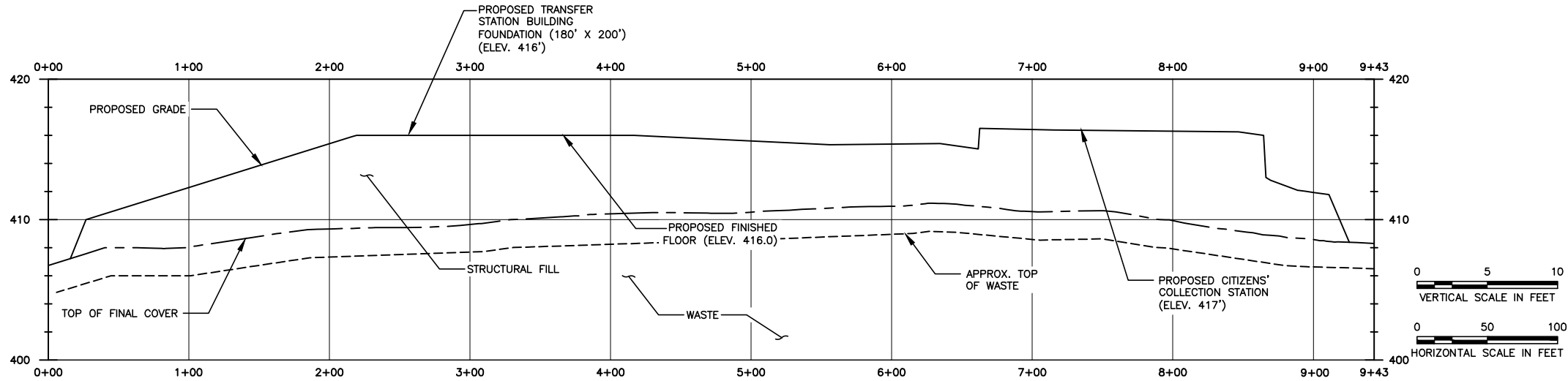




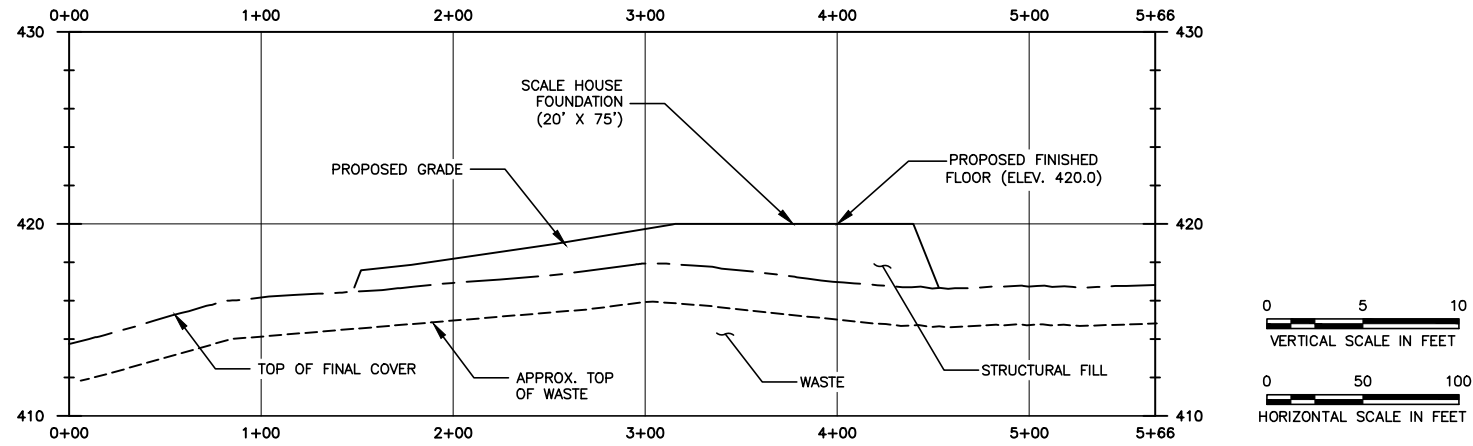


<b>SCS ENGINEERS</b> STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188	CLIENT		<b>CITY OF WACO</b>  <b>6165 - 5733 FM 3400</b>  <b>WACO, TEXAS, 76706</b>
	DRAIN. B'Y: _____ C/A RW: B'Y: _____ DRAIN. B'Y: _____ APP. B'Y: _____		
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SECTION VIEW A - A'



SECION VIEW B - B'



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
1	6/16/23	REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO., UPDATED FACILITY NAME, AND UPDATED CCS CALLOUT	JA

DRAWING TITLE	CROSS-SECTIONS
PROJECT TITLE	CITY OF WACO TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION

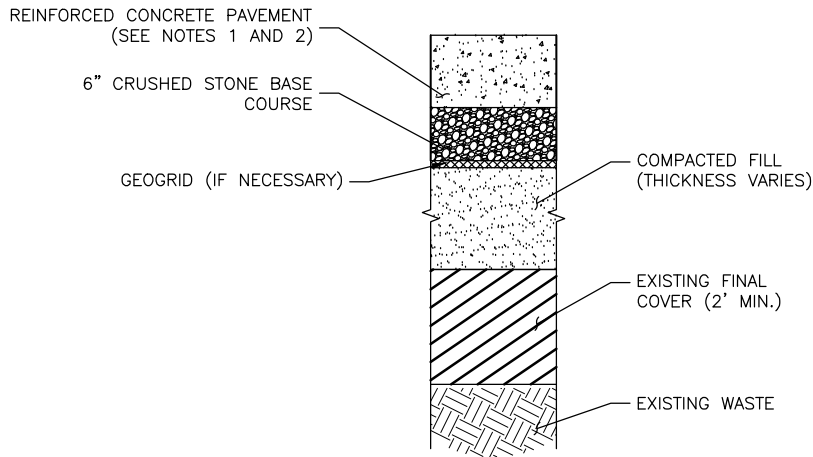
CLIENT	CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706
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SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188	DATE: 06/22/2023 DRAWN BY: BCC CHECKED BY: JA APPROVED BY: JA
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CADD FILE: 162-C3 - GRADING AND DRAINAGE PLAN AND X-SECTIONS	DATE: 06/2023
SCALE: AS SHOWN	DRAWING NO.

C3

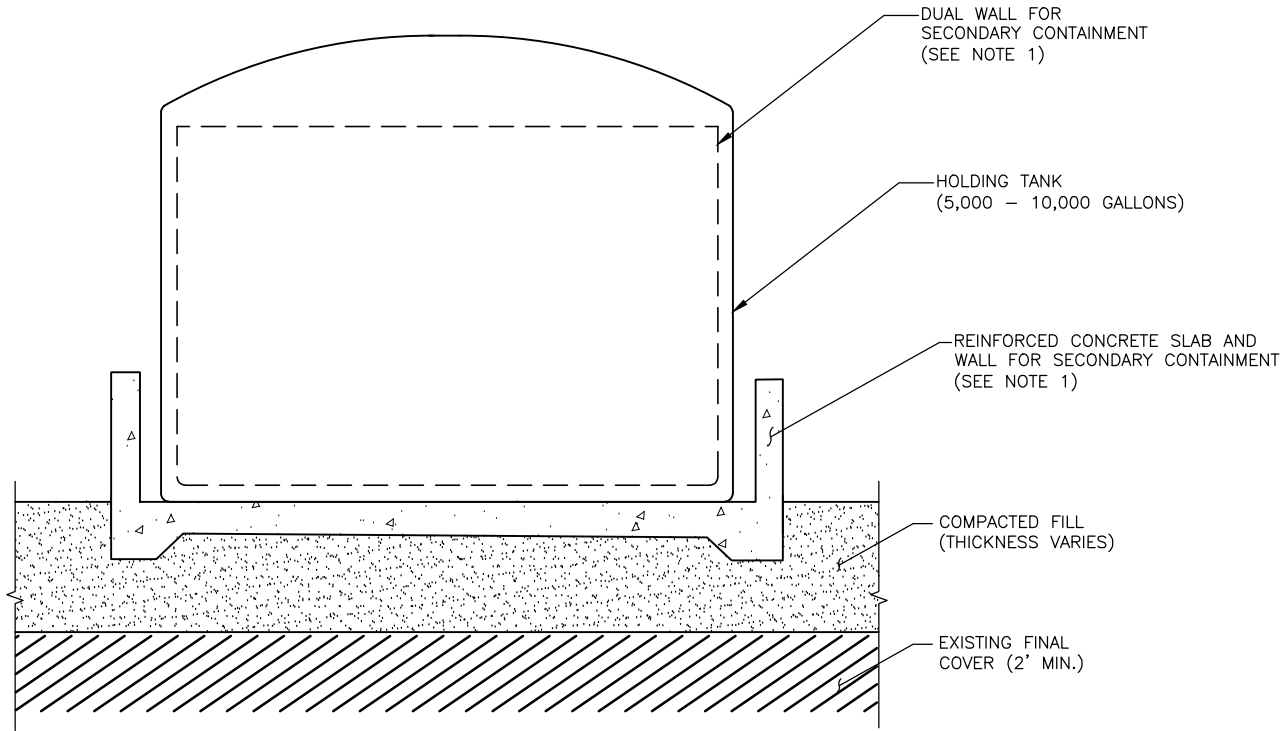




NOTES:

1. PAVEMENT THICKNESS: 10" FOR ACCESS ROADS AND BUILDING APPROACHES  
6" FOR PARKING AND CITIZENS' COLLECTION STATION
2. GRAVEL ROAD BASE MAY BE USED IN-PLACE OF CONCRETE PAVEMENT FOR  
PARKING AND CITIZENS' COLLECTION STATION.

TYPICAL PAVING SECTION  
NTS



NOTES:

1. TANK MAY HAVE REINFORCED CONCRETE SLAB AND WALL OR DUAL WALL IN PLACE OF  
SECONDARY CONTAINMENT.
2. TANK AND FOUNDATION WILL BE ANCHORED IN ACCORDANCE WITH MANUFACTURE'S  
RECOMMENDATIONS.

HOLDING TANK  
NTS

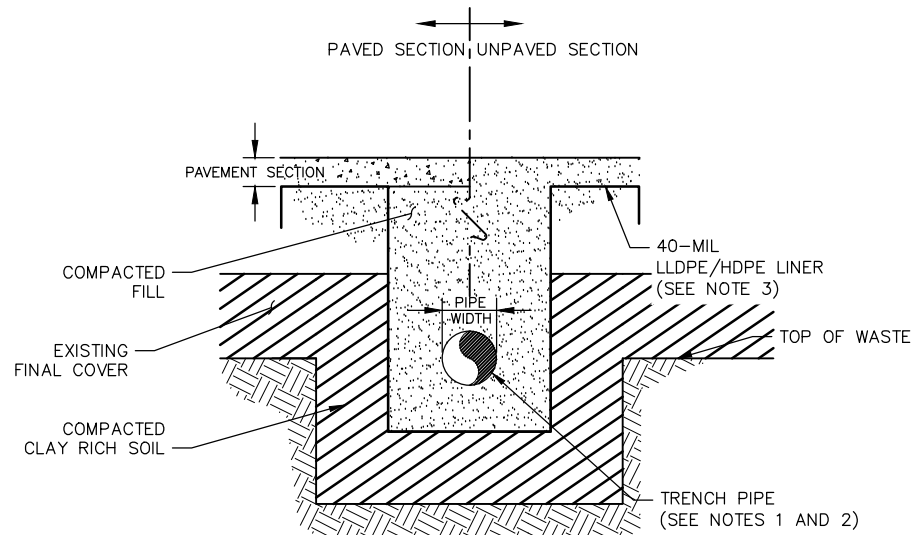


06/16/2023

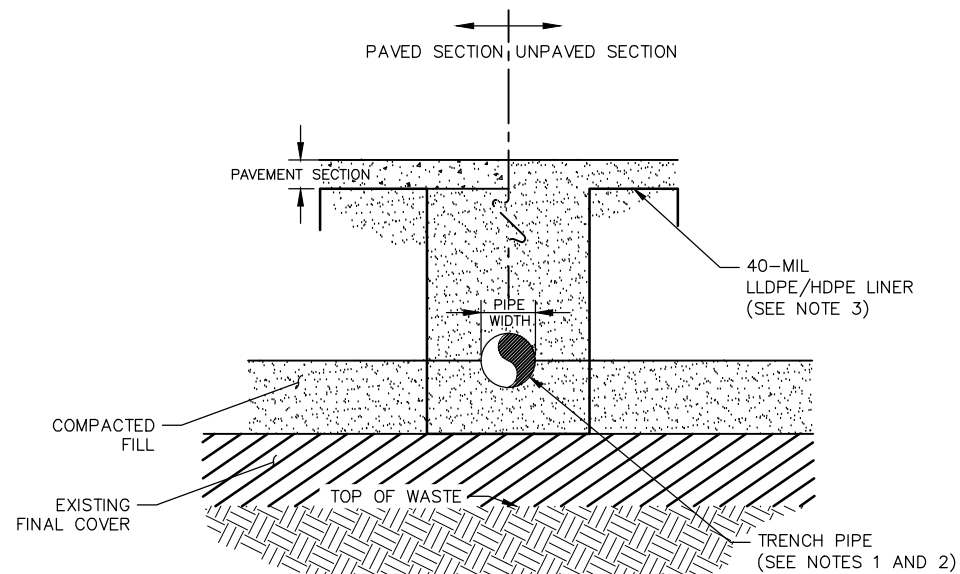
FOR PERMITTING PURPOSES ONLY

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DRAWING NO. C4				△ 6/16/23 REMOVED REFERENCES TO SITE'S	
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				TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407	

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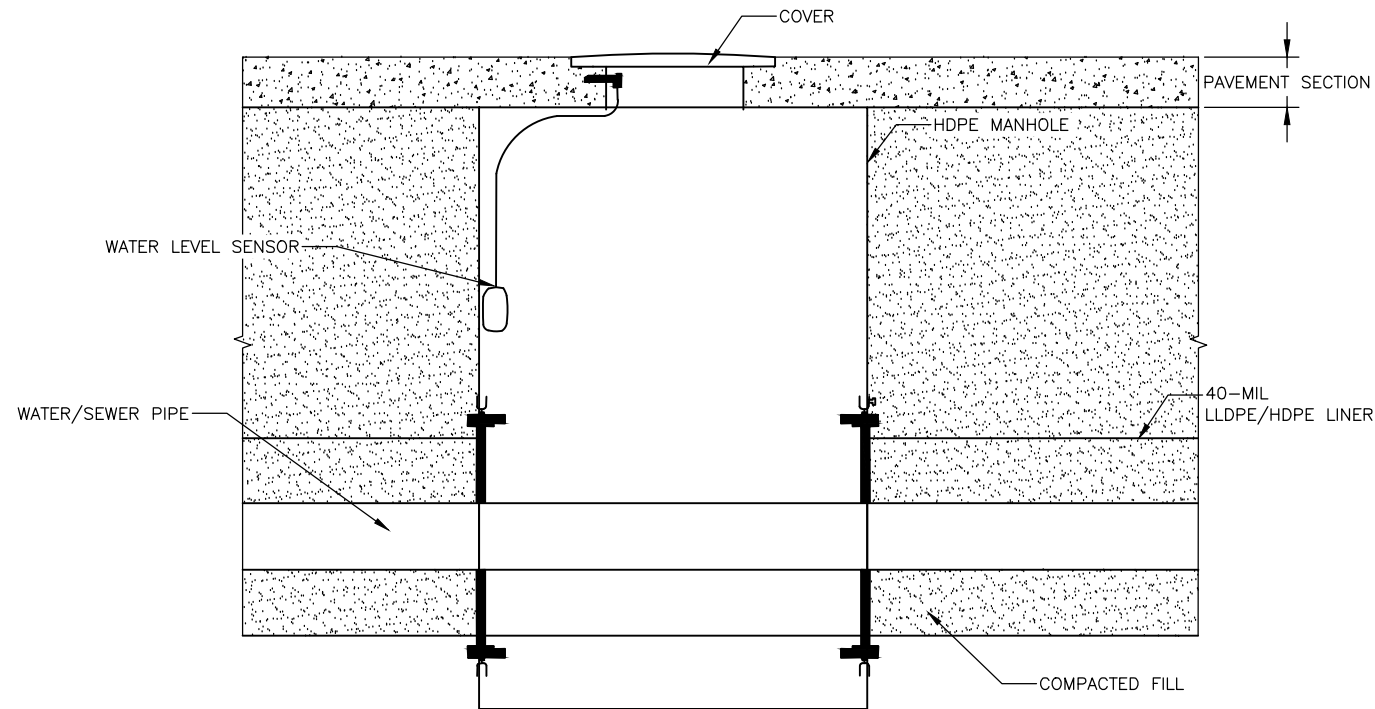
UTILITY TRENCH SECTION DETAIL (WASTE ENCOUNTERED)



UTILITY TRENCH SECTION DETAIL (NO WASTE ENCOUNTERED)

NOTES:

1. UTILITY TRENCH LINER DETAIL SHALL APPLY TO ALL UTILITY LINES INCLUDING WATER LINES AND SANITARY SEWER PIPING CONSTRUCTED OVER THE CLOSED LANDFILL.
2. WATER LINES AND SANITARY SEWER PIPING MAY BE EITHER DUAL-CONTAINED OR SINGLE CONTAINED WITH TRENCH LINERS.
3. ELECTRICAL CONDUIT TRENCHES WILL NOT REQUIRE LLDPE/HDPE TRENCH LINERS.



LEAK DETECTION MANHOLE DETAIL

NTS



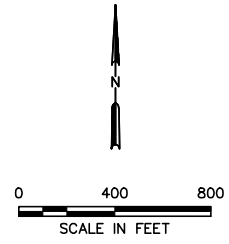
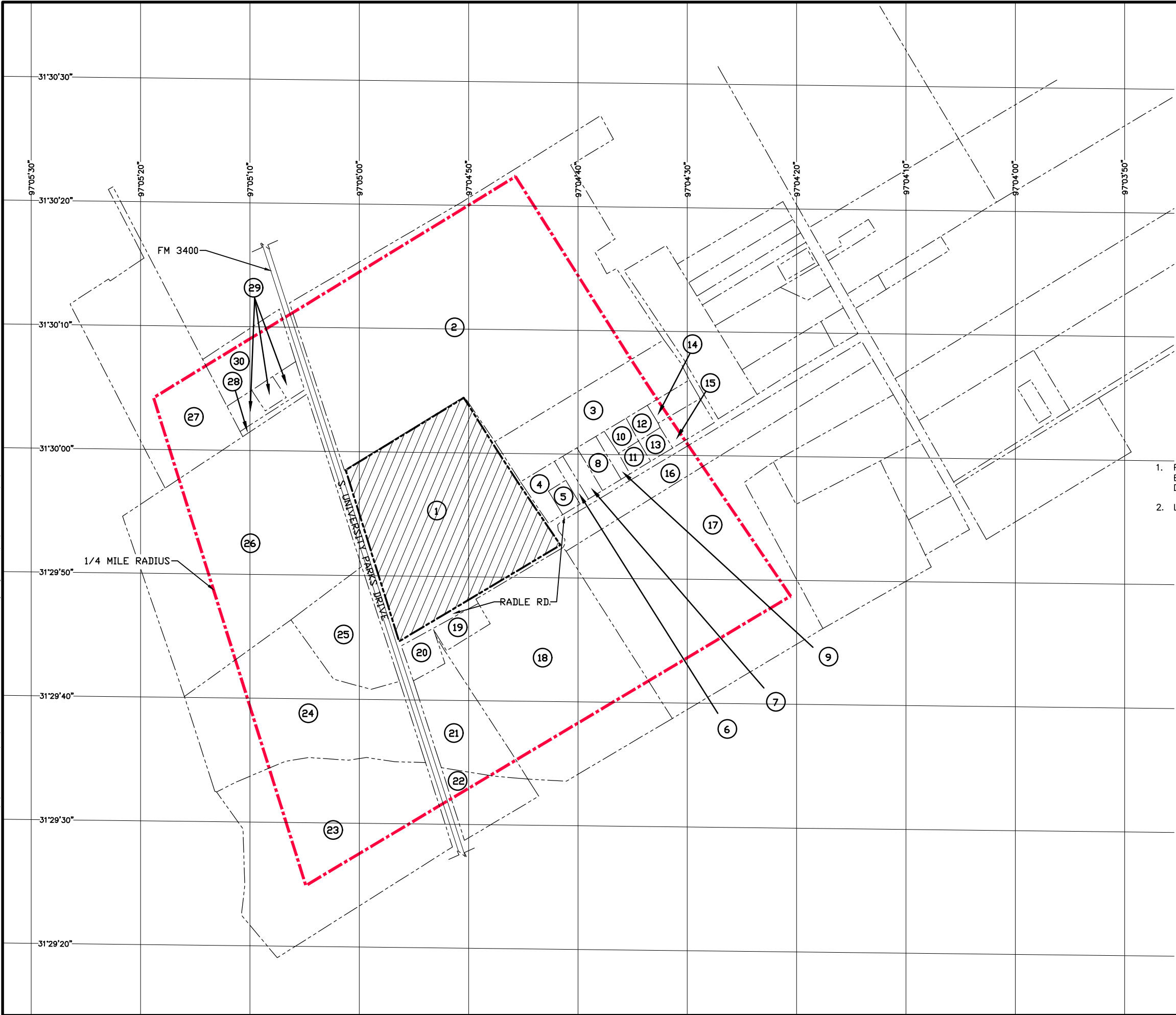
06/16/2023

FOR PERMITTING PURPOSES ONLY

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PROJECT NO. 16222063.00		OWNER BCC		CITY ENGINEER J/A		CITY SEAL BCC		PROJECT TITLE	
DESIGNER J/A		CHECKER J/A		APPROVER J/A		CITY SEAL BCC		CITY OF WACO TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION	
REV		DATE		DESCRIPTION		BY		REMOVED REFERENCES TO SITE'S	
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**ATTACHMENT 2**  
**MARKED VERSION**

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LEGEND

- PERMIT BOUNDARY
- CITY OWNED PROPERTY (APPROX. 43.482 ACRES)
- ADJACENT PROPERTY BOUNDARY (SEE NOTE 1)
- 1/4 MILE RADIUS FROM FUTURE PERMIT BOUNDARY
- 97°04'10" LATITUDE/LONGITUDE LINES
- ① LANDOWNER PROPERTY (SEE LANDOWNER'S LIST)

- PROPERTY OWNERSHIP INFORMATION WITHIN 1/4 MILE OF FUTURE BOUNDARY WAS OBTAINED FROM MCLENNAN COUNTY APPRAISAL DISTRICT PROPERTY RECORDS AT [WWW.MCLENNANCAD.ORG](http://WWW.MCLENNANCAD.ORG).
- LANDOWNER PROPERTY BOUNDARIES INDICATED ARE APPROXIMATE.



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY:
			JA
6/16/23		REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO., AND UPDATED PROPERTY ACREAGE AND FACILITY NAME	
CADD FILE: 01 - LAND OWNERSHIP MAP			
DATE: 06/2023			
SCALE: AS SHOWN			
DRAWING NO.			
1			
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188			
PROJ. NO. 18222063.00 DRA. BY: JA CHK. BY: BCC APP. BY: JA			
STATE OF TEXAS JEFFREY ARRINGTON 61895 LICENSED PROFESSIONAL ENGINEER			
CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706			
LANDOWNERS MAP CITY OF WACO TCEQ PERMIT NO. MSW-1039- TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION			
TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407			

# Subchapter T Development Permit Application (30 TAC §330.957)

City of Waco Transfer Station Facility  
~~Closed City of Waco Landfill,~~  
~~MSW Permit No. 1039~~

501 Schroeder Dr  
Waco, Texas 76710



Date: 06/16/2023

**SCS ENGINEERS**

16222063.00 | May 2023

Revision 1 – June 2023

1901 Central Dr., Suite 550  
Bedford, TX 76021  
817-571-2288

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## Appendices

- A Geotechnical Site Investigation
- B Permit Level Drawings
- C Methane Monitoring Equipment Specifications
- D Landfill Safety Requirements
- E Notice of Coordination Letters
- F Certified Copy of the City Charter



# 1 INTRODUCTION AND BACKGROUND

The City of Waco is planning to develop a new municipal solid waste (MSW) transfer station over a closed landfill site (MSW Permit No. 1039) located on S. University Parks Dr. in Waco, Texas. The transfer station will be designed to process up to 1,800 tons/day of waste. The proposed facilities include a new MSW transfer station, scale house building and scales, a citizen's collection station (CCS), and a new paved access drive with parking for trucks and vehicles. The proposed transfer station building will be constructed in the northeast corner of the site, approximately 130 feet from the east property line. The City of Waco will initially develop a 180' x 120' size transfer station building (26,100 sf) with the option of expanding it to 180' x 200' (36,000 sf) in future as needed. A new paved access road will be constructed to connect the facility to South University Parks Dr. located along the western boundary of the landfill. Additional paved areas will be constructed around the transfer station to provide for access to the building for collection and transfer trucks. The scale house building will be approximately 1,600 sf. A new CCS, approximately 150' x 300' (4,500 sf) in size, will be constructed adjacent to the transfer station consisting of additional pavement and retaining walls to enable unloading into open top containers. The proposed improvements will be constructed over the final cover of the landfill and will include two enclosed structures (transfer station and scale house buildings) as defined by Subchapter T rules and, as such, requires the submittal of a development permit application (application).

This application is submitted consistent with the provisions of 30 TAC §330.957 related to construction of an enclosed structure over a closed MSW landfill unit and includes the required technical information outlined under 30 TAC §330.957(a) through (u), including:

- Foundation Plan for Gas Collection and Methane Barrier in Section 13;
- Methane Monitoring Plan in Section 20;
- Operations Plan in Sections 19-21;
- Permit-Level Drawings in Appendix B.

The individual section headings also indicate the regulatory citations within 30 TAC §330.957 that are addressed within the contents of each section. Appendix A contains the geotechnical investigation to determine the nature and thickness of the landfill cover, the investigation for the presence of methane, and recommendations for foundation and pavement construction over the closed landfill. Appendix B also contains permit-level drawings for the proposed improvements, including civil, architectural, and structural drawings. Appendix C contains methane monitoring equipment specifications, and landfill safety requirements are contained in Appendix D. Notice of coordination letters for all local, state, and federal government official and agencies are included Appendix E, and a copy of the certified City Charter is included in Appendix F.



## 2 ENGINEER'S CERTIFICATION (30 TAC §330.957(b))

Certification of no Potential Threat to Public Health or the Environment:

I, Jeff Arrington, P.E. #61895 certify that the proposed development will not increase or create a potential threat to public health or the environment. Further, I certify that the proposed development will not damage the integrity or function of any component of the Closed Municipal Solid Waste Landfill Unit, including, but not limited to, the final cover, containment systems, monitoring system, or liners. This certification includes all documentation of all studies and data on which I relied in making these determinations.



\_\_\_\_\_  
Signature/Seal

\_\_\_\_\_  
06-16-2023  
Date

## 5 EVIDENCE OF COMPETENCY (30 TAC §330.957(e))

### 5.1 City of Waco

The applicant, the City of Waco, currently owns and operates a Type I MSW Landfill, TCEQ Permit No. MSW-948A (Site 948A). This site was initially permitted under MSW Permit No. 948 on July 22, 1977, and subsequently a permit amendment was approved on September 21, 1987. While Site 948A is the only landfill that the City has operated in the last 10 years, the City previously operated the following MSW landfills, which have been closed in accordance with TCEQ requirements:

- Closed City of Waco Landfill, Permit No. MSW-1419 issued on September 3 1981, located on FM 3400 southeast of Waco; stopped accepting waste on June 17, 1986.
- Closed City of Waco Landfill, Permit No. MSW-1039 issued on July 22, 1977, located on FM 3400 southeast of Waco; stopped receiving waste on June 24, 1983.

The competency of the City of Waco to manage the ~~closed landfill (Permit No. MSW-1039) transfer station~~ is evidenced by the City's operating history over 20 years of operating Site 948A and prior closed sites in previous periods. The City of Waco has no financial interest in any solid waste facilities in any other states, territories, or countries.

As with MSW Permit No. 948A, ~~the closed landfill and~~ the transfer station at ~~the closed landfill (MSW Permit No. MSW-1039)~~ will be managed within the City's Solid Waste Department. Key personnel include the Director of Solid Waste and Landfill Manager both of which have experience in operation and maintenance of MSW landfills and transfer stations and at least one of which maintain a TCEQ MSW Class "A" license.

## 6 NOTICE OF APPOINTMENTS (30 TAC §330.957(f))

The notice of appointment for the applicant's engineer is included on the following page.

### NOTICE OF APPOINTMENT Engineers Appointment

Jon Niermann  
Chairman  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

Dear Mr. Niermann:

This is to advise the TCEQ that the City of Waco has duly appointed SCS Engineers as consulting and design engineers for the purpose of submitting engineering reports and planning material for a Subchapter T Development Permit Application for City of Waco Transfer Station Facility located on S. University Parks Drive at the site of the closed landfill MSW Permit No. 1039. SCS Engineers is an engineering firm employing professional engineers in good standing in accordance with State statutes, and the firm has experience in the design and construction of similar facilities. Mr. Jeff Arrington, P.E., Project Manager with SCS Engineers, is the engineer of record for this application.

The City of Waco hereby herewith authorizes TCEQ to review and comment on such reports, planning material, and data on this project as SCS Engineers may submit to you.

By: City of Waco

\_\_\_\_\_  
Signature

By: Bradley Ford, City Manager, City of Waco, Texas

## 8 LEGAL DESCRIPTION (30 TAC §330.59(h))

Consistent with 30 TAC §330.59(d), property owner affidavit and boundary survey and legal description are included on the following pages.

### PROPERTY OWNER AFFIDAVIT

The City of Waco, the owner of record of the properties described in Attachment A hereto (approximately ~~44-43.482~~-acre Tract, Waco, Texas), acknowledges and is aware that SCS Engineers plans to file for a permit to construct an enclosed structure upon said property.

The City of Waco acknowledges that the State of Texas may hold the City of Waco either jointly or severally responsible for the operation, maintenance, and closure of the facility.

The City of Waco acknowledges the site operator and the State of Texas shall have access to the property during the active life and post-closure care period, if required, after closure for the purpose of inspection and maintenance.

WITNESS MY HAND on this day, \_\_\_\_\_, 2023.

City of Waco

Waco, TX 76798-7111

By: Bradley Ford, City Manager, City of Waco, Texas

\_\_\_\_\_  
Signature

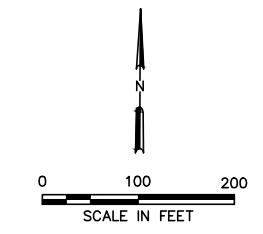
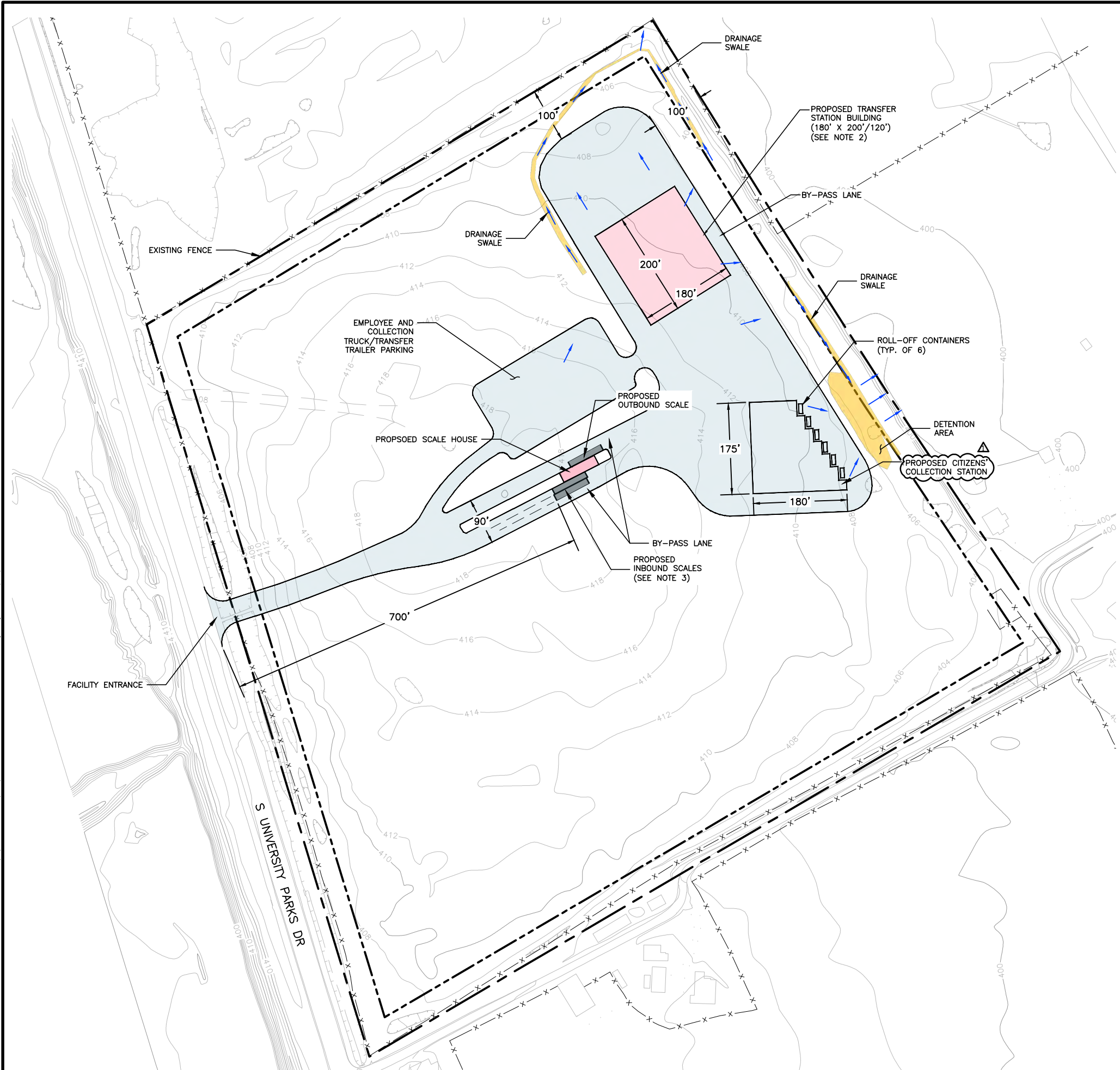
SWORN TO AND SUBSCRIBED BEFORE ME by the said \_\_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_, 2023, to certify which witness my hand and seal of office.

Notary Public in and for \_\_\_\_\_ County, Texas

My commission expires on \_\_\_\_\_

Printed Name \_\_\_\_\_

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LEGEND

- PROPERTY BOUNDARY
- APPROX. LIMITS OF WASTE (SEE NOTE 1)
- EXISTING GRADE CONTOURS
- EXISTING FENCE
- PROPOSED PAVEMENT AREA
- PROPOSED EROSION PROTECTION
- SURFACE WATER FLOW ARROWS

NOTES:

- APPROXIMATE LIMITS OF WASTE WERE VERIFIED BY GEOTECHNICAL INVESTIGATION DATED JANUARY 2023 (SEE APPENDIX A).
- INITIAL SIZE OF TRANSFER STATION WILL BE 180'X120' WITH FUTURE EXPANSION OF UP TO 200' IN LENGTH.
- FUTURE INBOUND SCALES WILL BE INSTALLED AS NEEDED TO ACCOMMODATE INCREASES IN THE WASTE ACCEPTANCE RATE OVER THE SITE OPERATING LIFE.
- ALL DIMENSIONS ARE APPROXIMATE AND WILL BE FINALIZED PRIOR TO CONSTRUCTION.



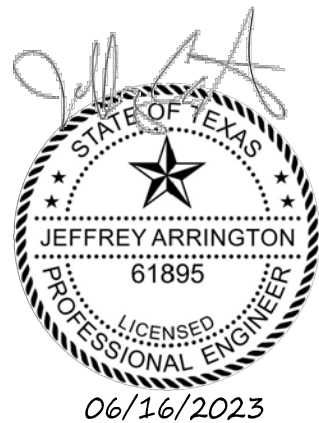
06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
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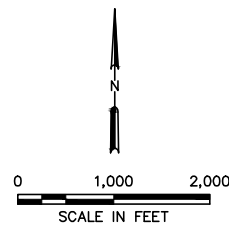
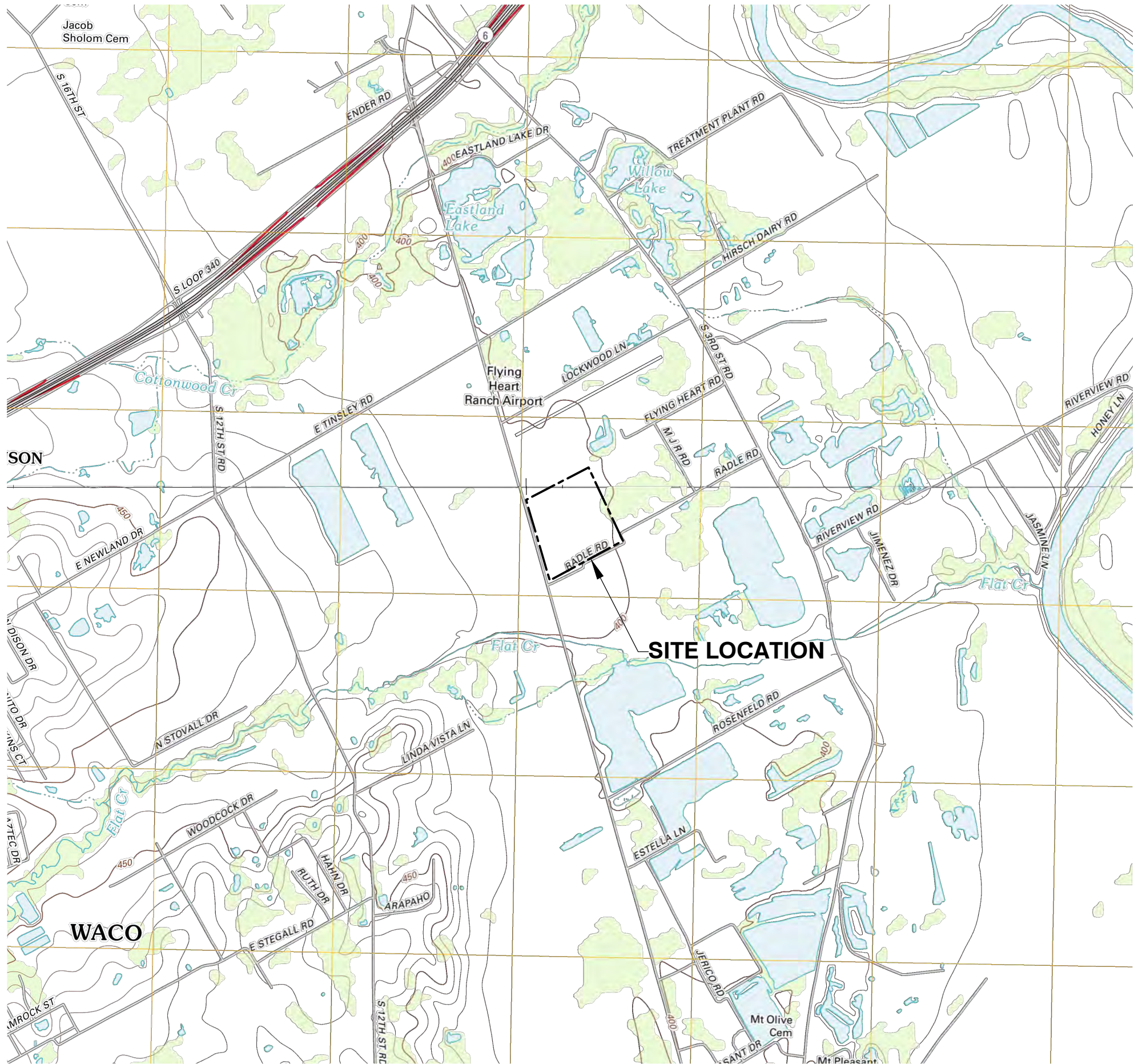
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PROJECT NO.		TCEQ PERMIT NO. MSW-1039-23	
PROJECT ADDRESS		TRANSFER STATION FACILITY	
PROJECT CITY		WACO, TEXAS, 76706	
PROJECT STATE		TEXAS	
PROJECT ZIP		76706	
PROJECT PHONE		6165 - 5733 FM 3400	
PROJECT FAX		76706	
PROJECT EMAIL		6165 - 5733 FM 3400	
PROJECT WEBSITE		6165 - 5733 FM 3400	
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- GENERAL HIGHWAY MAP  
**MCLENNAN COUNTY**  
**TEXAS**  
SOURCE: TXDOT, DATED MAY, 2016  
FOR PERMITTING PURPOSES ONLY

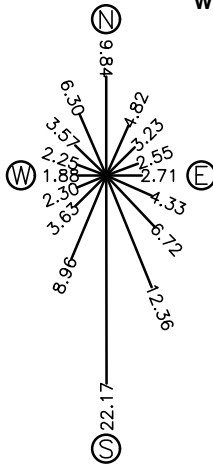




LEGEND

- 1503 FARM TO MARKET ROAD
- 37 STATE HIGHWAY
- 38 STATE HIGHWAY LOOP
- 82 US NUMBERED HIGHWAY

WIND ROSE  
WACO, TEXAS



CALM 2.81%  
WIND ROSE REPRESENTS AVERAGE PERCENT  
OF TIME WIND BLOWS FROM EACH OF THE  
16 COMPASS POINTS SHOWN.  
SOURCE:  
TNRCC-EPA  
STATION TX03927  
AVERAGE VALUES  
PERIOD ANALYZED: 1984-1992

NOTES:

- TOPOGRAPHIC MAPPING PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) NORTH AMERICAN DATUM OF 1983 (NAD 83). EAST WACO USGS 7.5 MINUTE QUAD MAP IS USED.
- WORLD GEODETIC SYSTEM OF 1984 (WGS84). PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R. 10,000-FOOT TICKS: TEXAS COORDINATE SYSTEM OF 1983 (CENTRAL ZONE).
- NO KNOWN WATER WELLS WERE FOUND WITHIN 500 FEET OF THE PROPOSED DEVELOPMENT BOUNDARY PER THE RESULTS OBTAINED FROM THE WATER DATA INTERACTIVE WEBSITE ([HTTPS://WWW3.TWDB.TEXAS.GOV/APPS/WATERDATAINTERACTIVE/GROUNDWATERDATAVIEWER/?MAP=SDR](https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer/?map=SDR)) OF TEXAS WATER DEVELOPMENT BOARD.
- DRAINAGE, PIPELINE, AND UTILITY EASEMENTS WITHIN OR ADJACENT TO THE SITE WERE PROVIDED IN SECTION 8-ATTACHMENT A (BOUNDARY SURVEY AND LEGAL DESCRIPTION).
- NO SCHOOLS, LICENSED DAY CARE FACILITIES, HOSPITALS, OR OTHER HEALTH CARE FACILITIES ARE LOCATED WITHIN 1,000 FEET OF THE BOUNDARY OF THE FILL AREA.



FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
1	6/16/23	REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO. AND UPDATED FACILITY NAME	JA

DRAWING TITLE	SITE LOCATION MAP
PROJECT TITLE	CITY OF WACO TCEQ PERMIT NO. MSW-1039 TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION

CLIENT	CITY OF WACO - MSW-1039 6165 - 5733 FM 3400 WACO, TEXAS, 76706
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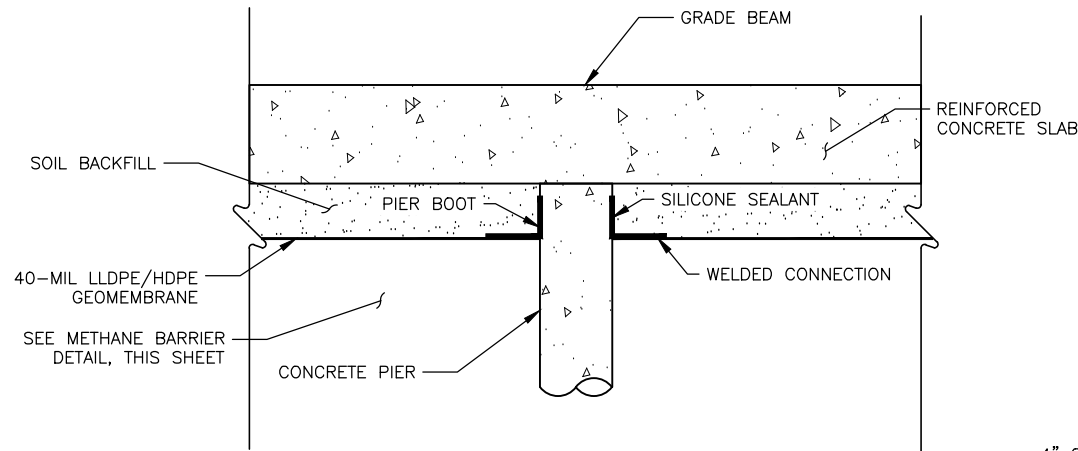
SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX (817) 571-2188
PROJ. NO.	16222063.00
DWN. BY	SCS
CHEK. BY	SCS
APP. BY	JA

CADD FILE:	10.2 - LOCATION MAP
DATE:	06/2023
SCALE:	AS SHOWN
DRAWING NO.	10.2

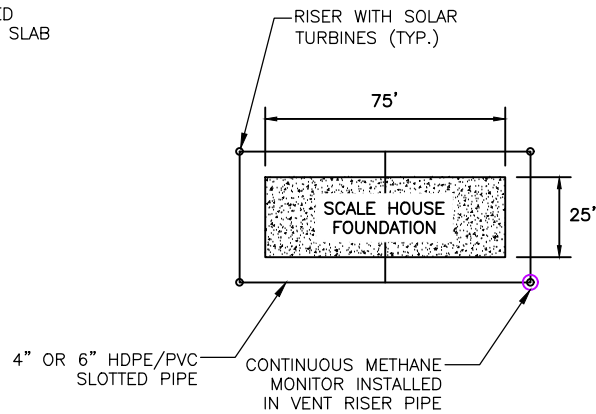
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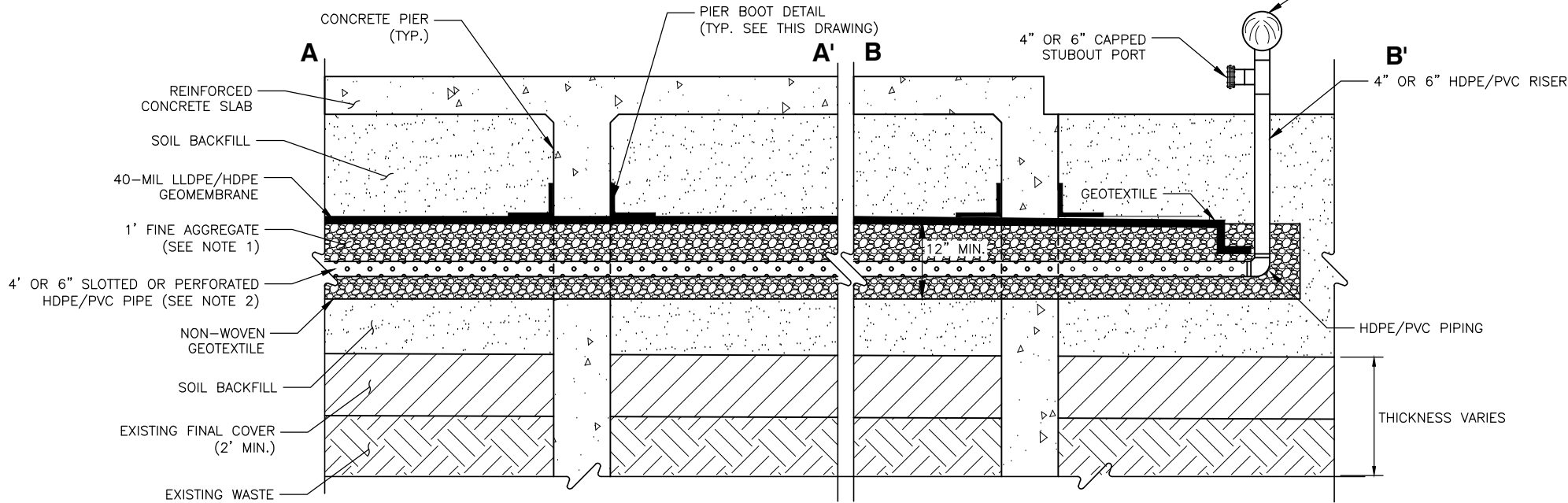
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PIER BOOT DETAIL  
NTS



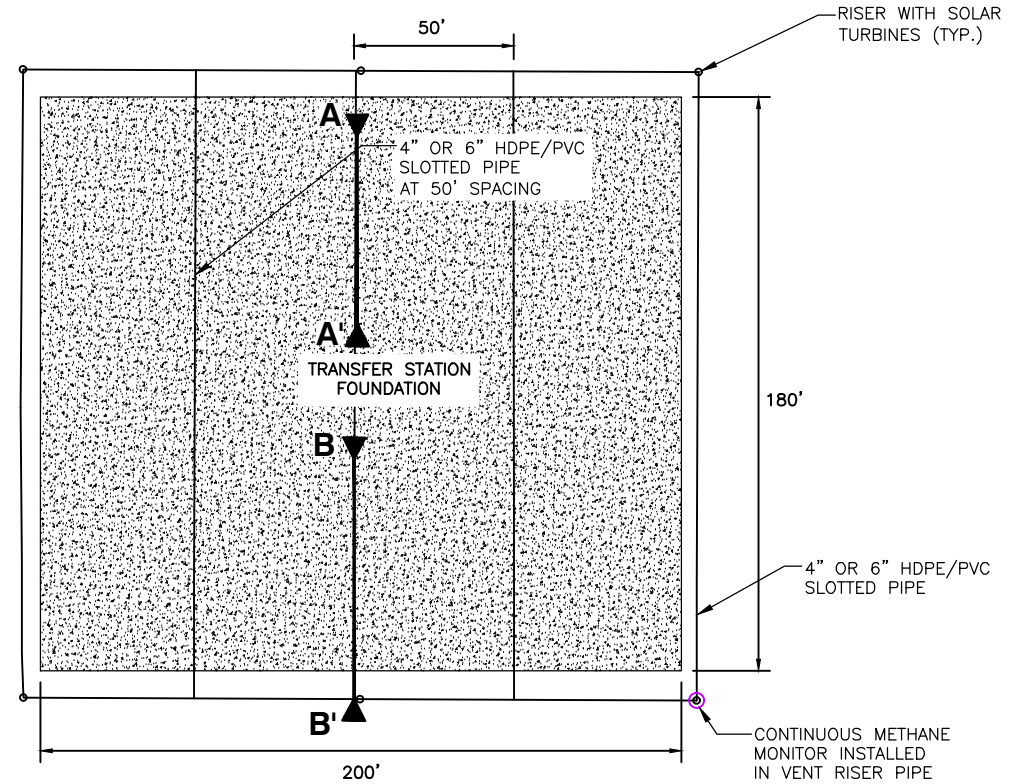
PIPING PLAN  
NTS



NOTES:

1. FINE AGGREGATE SHALL BE COARSE SAND OR FINE GRAVEL.
2. SLOTTED OR PERFORATED PIPING SHALL EXTEND AROUND THE BUILDING PERIMETER AND BENEATH SLAB AS SHOWN ON PIPING PLAN DETAIL.
3. PROVIDE FITTED HDPE BOOTS FOR A1C FOUNDATION PIERS (SEE PIER BOOT DETAIL, THIS SHEET)
4. CONTINUOUS METHANE MONITORS SHALL BE INSTALLED IN THE VENT PIPE RISER. REFERENCE PIPING PLAN (THIS PAGE) FOR VENT RISERS AND METHANE MONITOR LOCATIONS.
5. PROVIDE 4\"/>

METHANE BARRIER DETAIL  
NTS



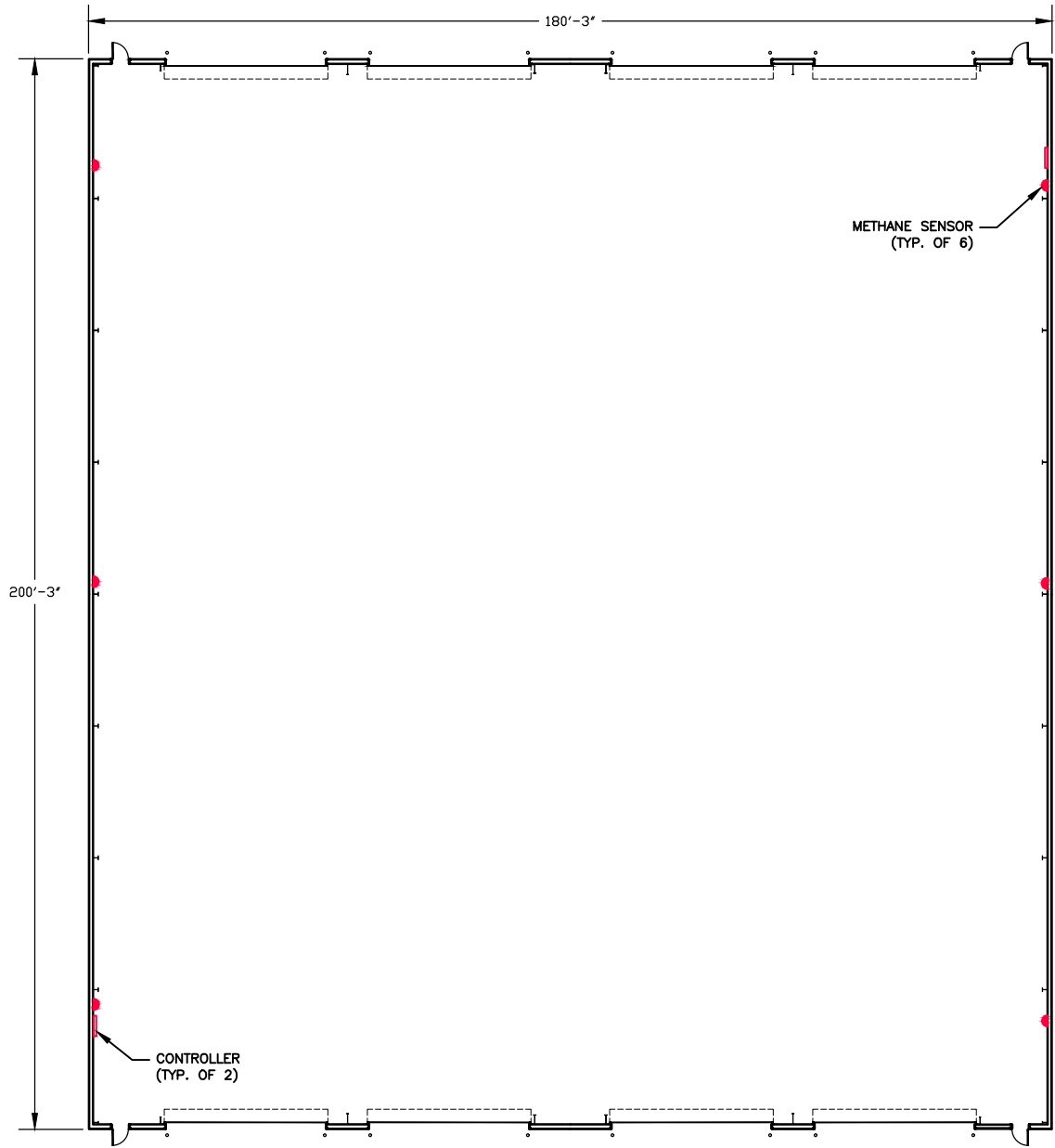
06/16/2023

FOR PERMITTING PURPOSES ONLY

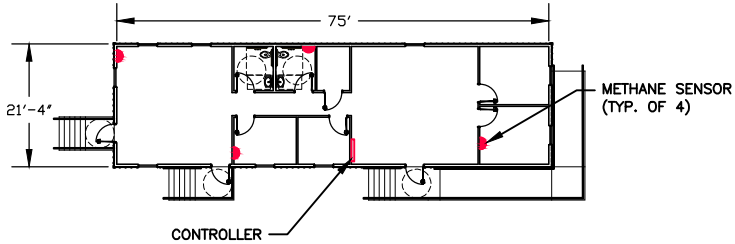
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DRAWING NO.		16222063.00		DWG. BY:		BSC		CHK. BY:		SOS			
DSN. BY:		JA		APP. BY:		JA		TXS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407					
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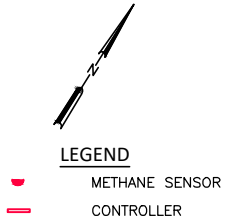
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**TRANSFER STATION SENSOR PLAN**  
NTS



**SCALE HOUSE SENSOR PLAN**  
NTS



- NOTES:
- PROVIDE METHANE MONITORING EQUIPMENT INSIDE THE BUILDING CONSISTING OF:
1. WALL MOUNTED CONTROLLER BEACON 410A OR EQUIVALENT.
  2. DIRECT CONNECT SENSORS MOUNTED IN LOCATIONS OF THE BUILDING THAT ARE MOST LIKELY TO HAVE LIMITED VENTILATION INCLUDING RESTROOMS AND OTHER AREAS AS SHOWN ON THE PLANS.
  3. SENSORS SHALL BE CAPABLE OF DETECTING METHANE CONCENTRATIONS AT OR BELOW 1% B.V. AND PRODUCE AN AUDIBLE ALARM AT 1% B.V.
  4. SENSORS SHALL BE DIRECTLY CONNECTED TO THE CONTROLLER UNIT PER MANUFACTURER'S INSTRUCTIONS.
  5. SENSORS ARE SPECIFIED IN APPENDIX C.



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
Δ	6/16/23	REMOVED REFERENCES TO SITE'S	JA
Δ		PREVIOUS PERMIT NO. AND UPDATED	
Δ		FACILITY NAME	
Δ			
Δ			
Δ			
TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407			

DRAWING TITLE	GAS SENSOR LOCATION PLAN
PROJECT TITLE	CITY OF WACO TCEQ PERMIT NO - MSW-1039 TRANSFER STATION FACILITY
CLIENT	CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188	PROJ. NO. 16222063.00 DATE 06/16/2023	DWN. BY: BGC CHK. BY: SDS	O/A RW BY: RKK APP. BY: JA
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SCALE: AS SHOWN	DRAWING NO. 20.3

## Appendix B

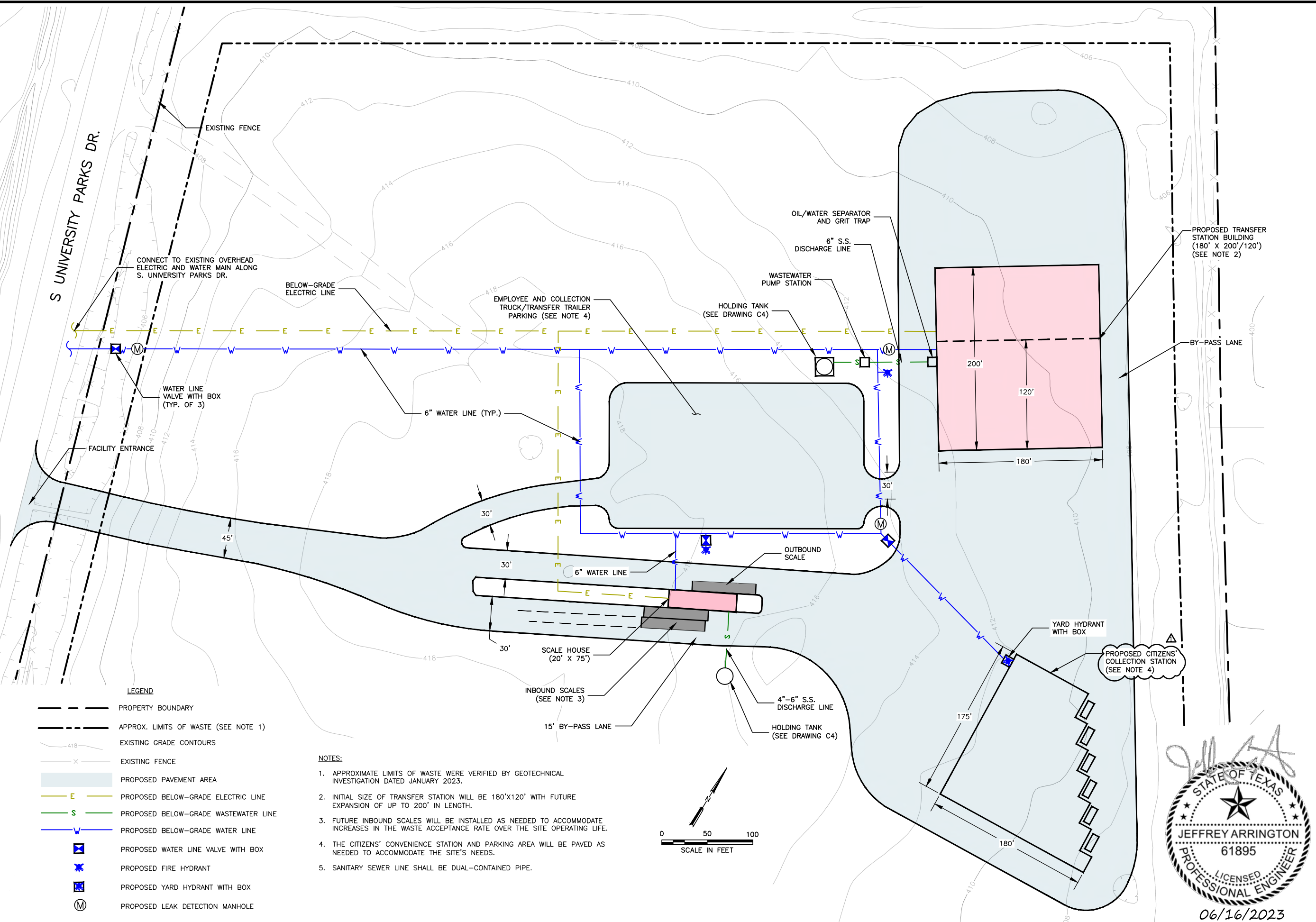
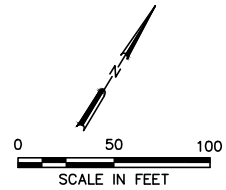
### Construction Plans

6/21/2023 8:47 PM C:\WACO\16222063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\WD\VC1 - PAVING AND UTILITY PLAN

LEGEND	
	PROPERTY BOUNDARY
	APPROX. LIMITS OF WASTE (SEE NOTE 1)
	EXISTING GRADE CONTOURS
	EXISTING FENCE
	PROPOSED PAVEMENT AREA
	PROPOSED BELOW-GRADE ELECTRIC LINE
	PROPOSED BELOW-GRADE WASTEWATER LINE
	PROPOSED BELOW-GRADE WATER LINE
	PROPOSED WATER LINE VALVE WITH BOX
	PROPOSED FIRE HYDRANT
	PROPOSED YARD HYDRANT WITH BOX
	PROPOSED LEAK DETECTION MANHOLE

NOTES:

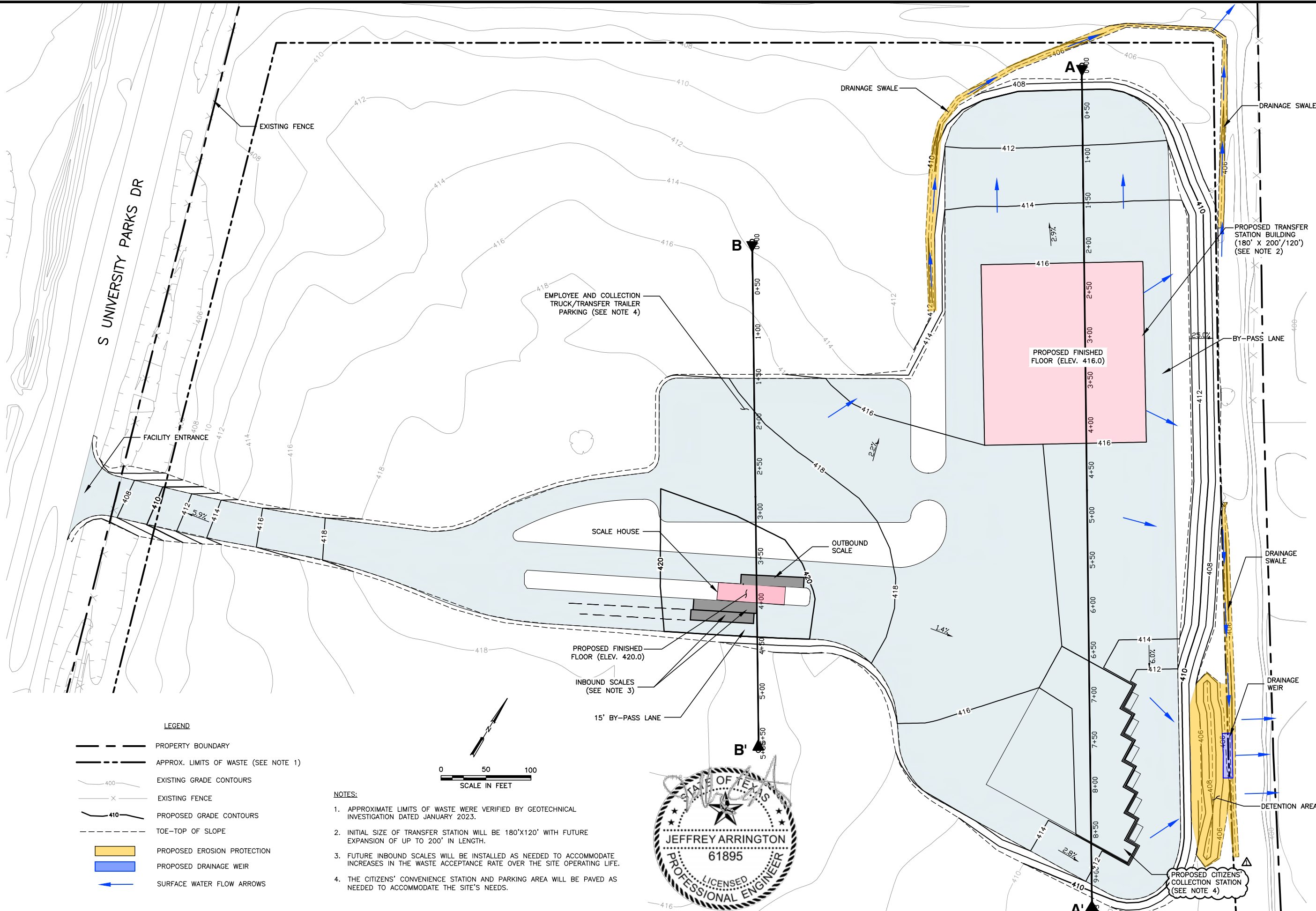
- APPROXIMATE LIMITS OF WASTE WERE VERIFIED BY GEOTECHNICAL INVESTIGATION DATED JANUARY 2023.
- INITIAL SIZE OF TRANSFER STATION WILL BE 180'X120' WITH FUTURE EXPANSION OF UP TO 200' IN LENGTH.
- FUTURE INBOUND SCALES WILL BE INSTALLED AS NEEDED TO ACCOMMODATE INCREASES IN THE WASTE ACCEPTANCE RATE OVER THE SITE OPERATING LIFE.
- THE CITIZENS' CONVENIENCE STATION AND PARKING AREA WILL BE PAVED AS NEEDED TO ACCOMMODATE THE SITE'S NEEDS.
- SANITARY SEWER LINE SHALL BE DUAL-CONTAINED PIPE.



06/16/2023  
FOR PERMITTING PURPOSES ONLY

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 5733 FM 3400 WACO, TEXAS, 76706		CITY OF WACO 6165 - 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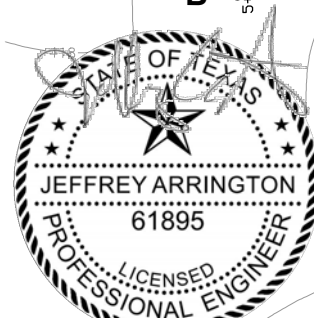
6/21/2023 6:52 PM C:\WACO\18222063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\WD\G2-C3 - GRADING AND DRAINAGE PLAN AND X-SECTIONS



- LEGEND**
- PROPERTY BOUNDARY
  - APPROX. LIMITS OF WASTE (SEE NOTE 1)
  - EXISTING GRADE CONTOURS
  - X- EXISTING FENCE
  - 410- PROPOSED GRADE CONTOURS
  - TOE-TOP OF SLOPE
  - PROPOSED EROSION PROTECTION
  - PROPOSED DRAINAGE WEIR
  - SURFACE WATER FLOW ARROWS

**NOTES:**

1. APPROXIMATE LIMITS OF WASTE WERE VERIFIED BY GEOTECHNICAL INVESTIGATION DATED JANUARY 2023.
2. INITIAL SIZE OF TRANSFER STATION WILL BE 180'X120' WITH FUTURE EXPANSION OF UP TO 200' IN LENGTH.
3. FUTURE INBOUND SCALES WILL BE INSTALLED AS NEEDED TO ACCOMMODATE INCREASES IN THE WASTE ACCEPTANCE RATE OVER THE SITE OPERATING LIFE.
4. THE CITIZENS' CONVENIENCE STATION AND PARKING AREA WILL BE PAVED AS NEEDED TO ACCOMMODATE THE SITE'S NEEDS.



06/16/2023

REV	DATE	DESCRIPTION	BY
1	6/16/23	REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO., UPDATED FACILITY NAME, AND UPDATED CCS CALLOUT	JA

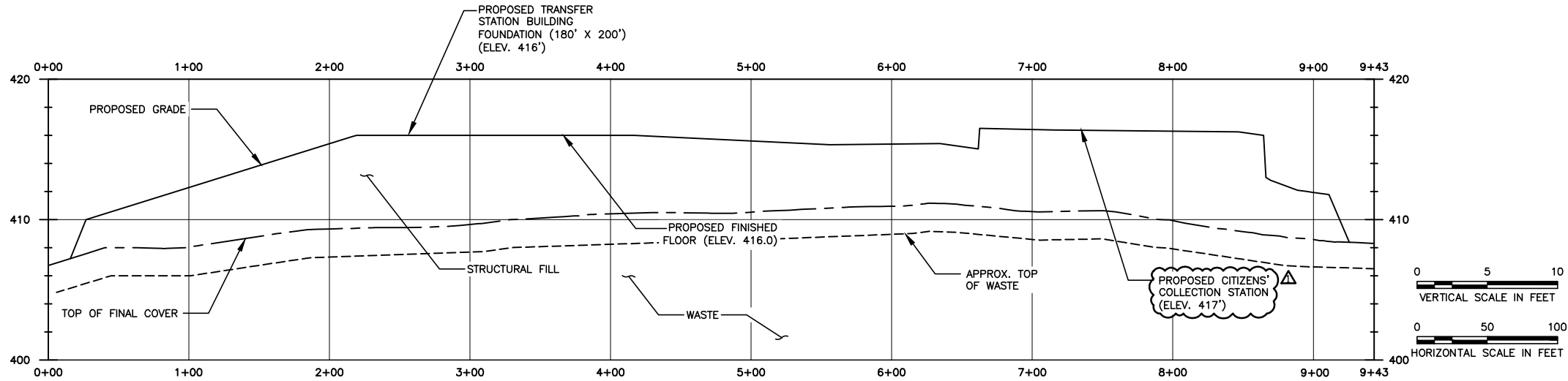
DRAWING TITLE	GRADING AND DRAINAGE PLAN
PROJECT TITLE	CITY OF WACO TCEQ PERMIT NO. MSW-1039- TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION

CLIENT	CITY OF WACO - MSW-1039- 6165 - 5733 FM 3400 WACO, TEXAS, 76706
SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188
CADD FILE:	SCS3 - GRADING AND DRAINAGE PLAN AND X-SECTIONS
DATE:	06/2023
SCALE:	AS SHOWN
DRAWING NO.	C2

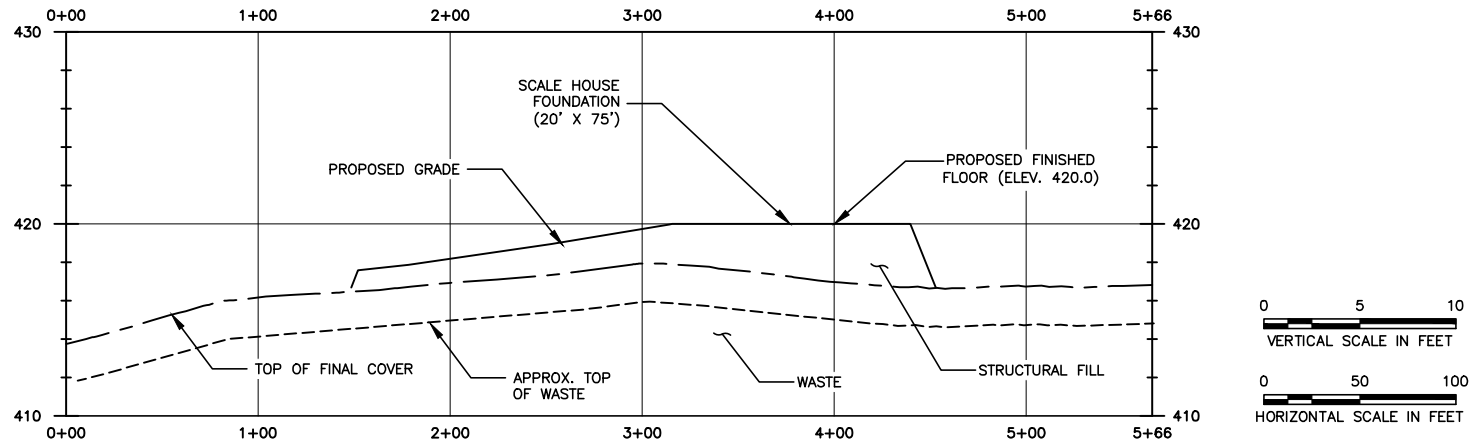
DATE	06/16/23
BY	JA
CHECKED BY	BCC
DESIGNED BY	JA
APPROVED BY	JA
DATE	06/16/23
BY	JA
CHECKED BY	BCC
DESIGNED BY	JA
APPROVED BY	JA

TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407

6/22/2023 8:42 AM C:\WACO\1622063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\WDV\C2-C3 - GRADING AND DRAINAGE PLAN AND X-SECTIONS



SECTION VIEW A - A'



SECION VIEW B - B'



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
1	6/16/23	REMOVED REFERENCES TO SITE'S PREVIOUS PERMIT NO., UPDATED FACILITY NAME, AND UPDATED CCS CALLOUT	JA

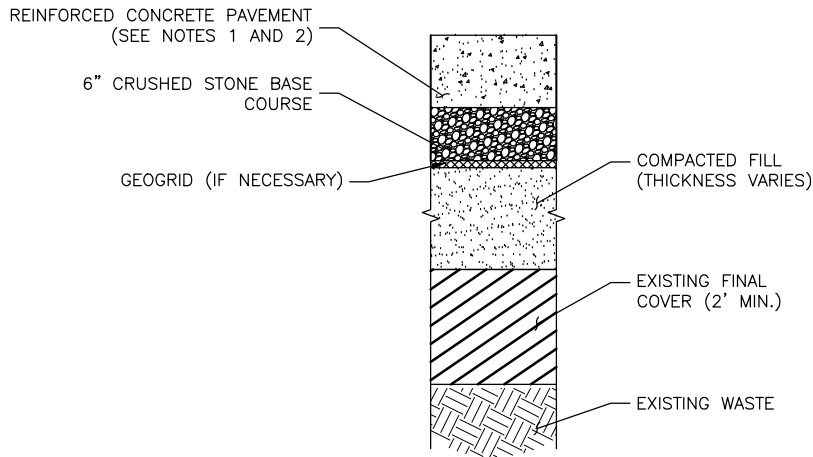
DRAWING TITLE	CROSS-SECTIONS
CITY OF WACO	
PROJECT TITLE	TCEQ PERMIT NO. MSW-1039- TRANSFER STATION FACILITY
	DEVELOPMENT PERMIT APPLICATION

CITY OF WACO	MSW-1039
6165 - 5733 FM 3400	
WACO, TEXAS, 76706	

SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT	CONSULTING ENGINEERS	1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021	PH (817) 571-2288 FAX NO. (817) 571-2188
DATE: 06/22/2023	BY: BCC	CHK: BCC	APP: BCC	Q/A REVIEW: BCC

CADD FILE: C2-C3 - GRADING AND DRAINAGE PLAN AND X-SECTIONS
DATE: 06/2023
SCALE: AS SHOWN
DRAWING NO.

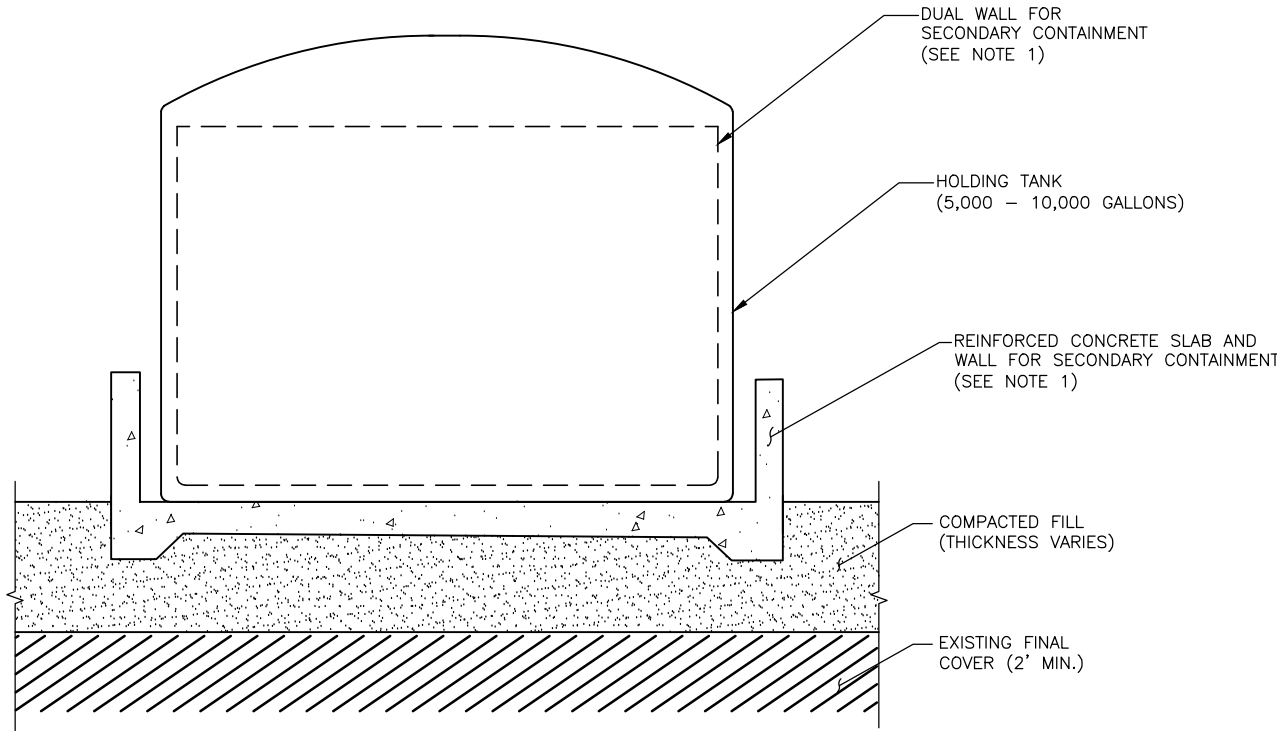
C3



NOTES:

- PAVEMENT THICKNESS: 10" FOR ACCESS ROADS AND BUILDING APPROACHES  
6" FOR PARKING AND CITIZENS' COLLECTION STATION
- GRAVEL ROAD BASE MAY BE USED IN-PLACE OF CONCRETE PAVEMENT FOR  
PARKING AND CITIZENS' COLLECTION STATION.

TYPICAL PAVING SECTION  
NTS



NOTES:

- TANK MAY HAVE REINFORCED CONCRETE SLAB AND WALL OR DUAL WALL IN PLACE OF  
SECONDARY CONTAINMENT.
- TANK AND FOUNDATION WILL BE ANCHORED IN ACCORDANCE WITH MANUFACTURE'S  
RECOMMENDATIONS.

HOLDING TANK  
NTS



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
Δ	6/16/23	REMOVED REFERENCES TO SITE'S	JA
Δ		PREVIOUS PERMIT NO. AND UPDATED	
Δ		FACILITY NAME	
Δ			
Δ			
Δ			
TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407			

DRAWING TITLE	DETAILS - 1
PROJECT TITLE	CITY OF WACO TCEQ PERMIT NO. MSW-1039-Δ TRANSFER STATION FACILITY DEVELOPMENT PERMIT APPLICATION

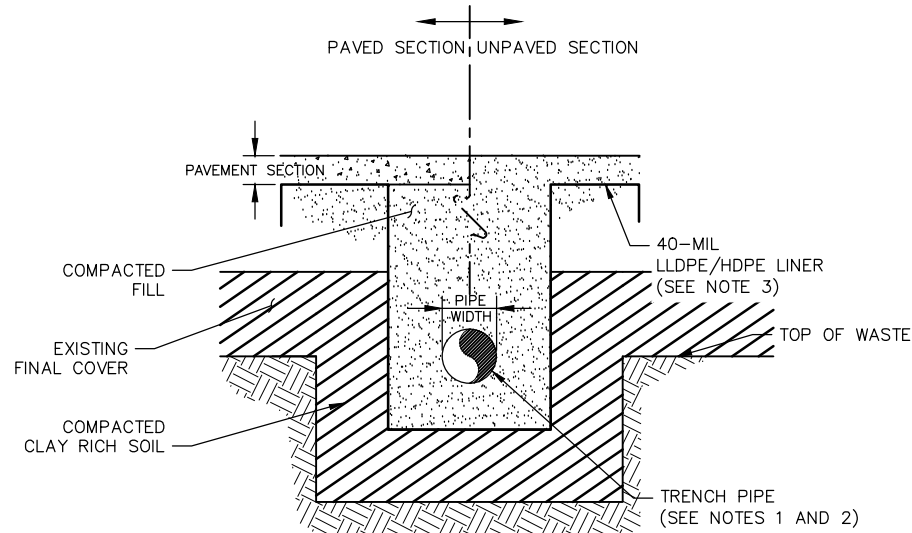
CLIENT	CITY OF WACO - MSW-1039 6165 - 5733 FM 3400 WACO, TEXAS, 76706
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SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021 PH (817) 571-2288 FAX NO. (817) 571-2188	PROJ. NO. 16222063.00 DATE: 06/16/2023 DWG. BY: BSCC CHK. BY: JA APP. BY: JA
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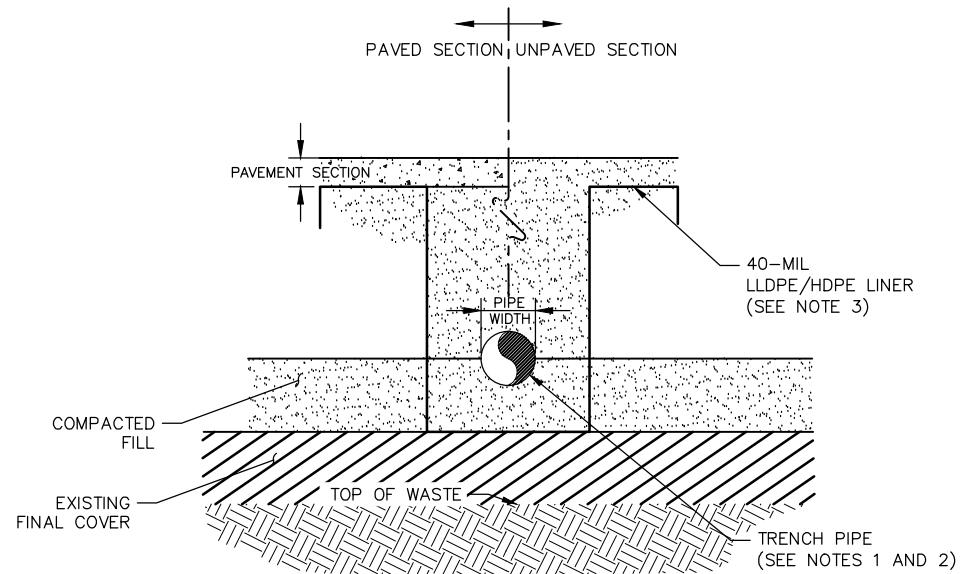
CADD FILE: C4-C5 - DETAILS
DATE: 06/2023
SCALE: AS SHOWN
DRAWING NO. C4



6/15/2023 7:05 PM C:\WACO\1622063.00 Task 2 - Site 1039 - Transfer Station Engineering and Permit\04-05 - DETAILS



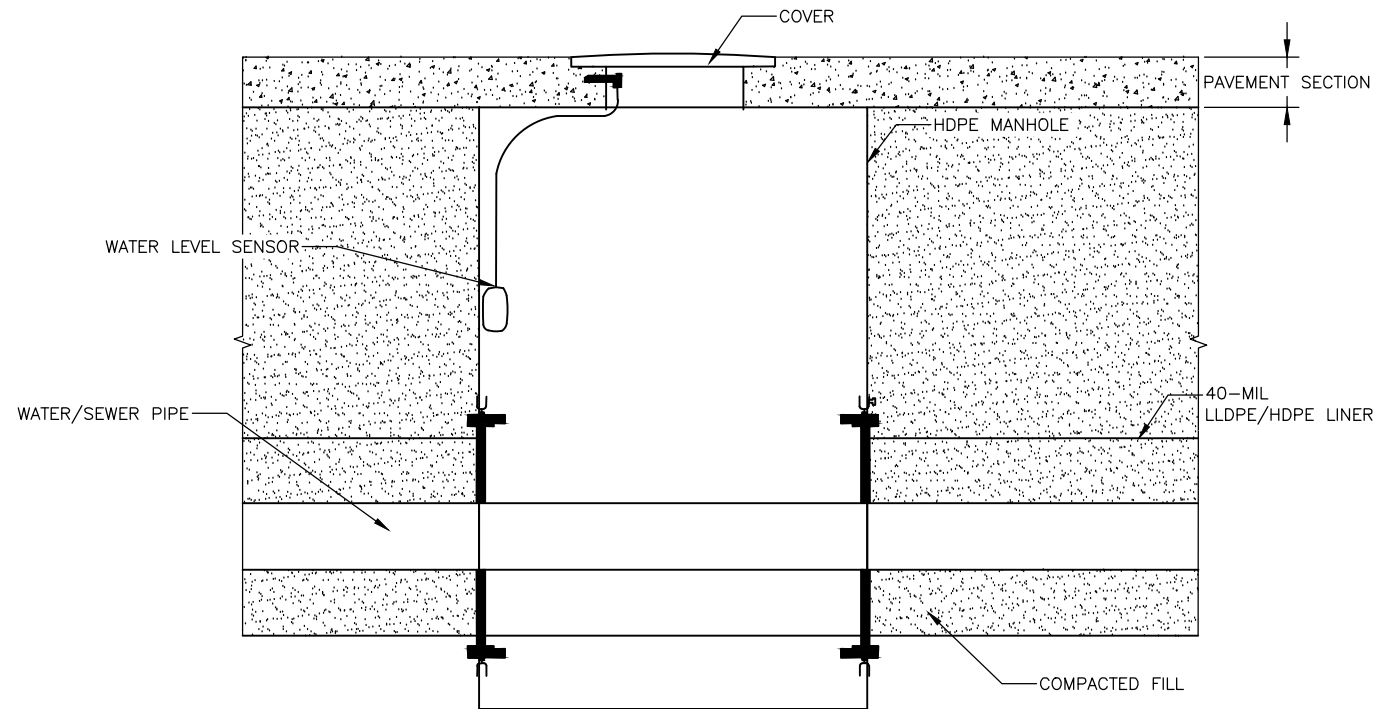
UTILITY TRENCH SECTION DETAIL (WASTE ENCOUNTERED)



UTILITY TRENCH SECTION DETAIL (NO WASTE ENCOUNTERED)

NOTES:

- UTILITY TRENCH LINER DETAIL SHALL APPLY TO ALL UTILITY LINES INCLUDING WATER LINES AND SANITARY SEWER PIPING CONSTRUCTED OVER THE CLOSED LANDFILL.
- WATER LINES AND SANITARY SEWER PIPING MAY BE EITHER DUAL-CONTAINED OR SINGLE CONTAINED WITH TRENCH LINERS.
- ELECTRICAL CONDUIT TRENCHES WILL NOT REQUIRE LLDPE/HDPE TRENCH LINERS.



LEAK DETECTION MANHOLE DETAIL

NTS



06/16/2023

FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY
Δ	6/16/23	REMOVED REFERENCES TO SITE'S	JA
Δ		PREVIOUS PERMIT NO. AND UPDATED	
Δ		FACILITY NAME	
Δ			
Δ			
Δ			
TEXAS BOARD OF PROFESSIONAL ENGINEERS REG. NO. F-3407			

DRAWING TITLE	DETAILS - 2
CLIENT	CITY OF WACO
PROJECT TITLE	TCREQ PERMIT NO-MSW-1039-Δ
	TRANSFER STATION FACILITY
	DEVELOPMENT PERMIT APPLICATION

CITY OF WACO-MSW-1039
6165 - 5733 FM 3400
WACO, TEXAS, 76706

SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT
CONSULTING ENGINEERS	1901 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021
PH (817) 571-2288	FAX NO. (817) 571-2188
PROJ. NO. 1622063.00	DWN. BY: BCC
ISSN. BY: JA	CHECK BY: SDS
	APP. BY: JA

CADD FILE:	04-05 - DETAILS
DATE:	06/2023
SCALE:	AS SHOWN
DRAWING NO.	C5