

December 7, 2021
SCS Project No. 16216088.00

Mr. Eric Clegg
Municipal Solid Waste Permits Section
Waste Permits Division (MC-126)
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, TX 78753

Re: Proposed City of Waco Landfill - McLennan and Limestone Counties, Texas
Municipal Solid Waste - Permit Application No. 2400
New Permit Application – Supplemental Information Submittal
Tracking No. 23201563 [25533209/25817489]; RN110471307/CN600131940

Dear Eric:

On behalf of the City of Waco, SCS Engineers (SCS) has prepared this supplemental information submittal to update specific items related to the right of ingress and egress (access routes) to the flowage easement located on the landfill property. As such, the following portions of the subject permit application have been revised to include the flowage easement access requirements and routes:

- Part I/II, Section 3, has been revised to include reference to the right of access to the flowage easement.
- Part I/II, Attachment 14A – Metes and Bounds Survey has been revised to include reference to the right of access to the flowage easement.
- Attachment 1, Drawing 1.1 – Existing Conditions Plan has been revised to include reference to the right of access to the flowage easement.
- A new Drawing 3.1A – Flowage Easement Access Route Plan has been added to Attachment 3 to depict the access routes to the flowage easements.
- Attachment 6A – Surface Water Drainage Plan has been revised as follows:
 - A new Drawing 6A.3A – Flowage Easement Access Route Plan has been added to Attachment 6A to depict the access routes to the flowage easements.
 - Drawing 6A.5 – Channel Profile, Channel 2A1 to Channel 2A5 has been revised to include a culvert where a flowage easement access route will cross the perimeter channel.
 - Drawing 6A.14 – Basin Outlet Details has been revised to include information for the perimeter channel culvert where a flowage easement access route will cross the perimeter channel.

Attached to this letter, we have included one original and two (2) unmarked copies, and one marked copy of all revised pages for use as replacement pages in the permit application. We have identified proposed changes from the existing permit application in a redline/strike-out version (i.e., marked version). Additionally, we have included a revision date (December 2021) and revision number on pages that have been revised as part of this submittal. Furthermore, we have attached a signed Part 1 Form, and posted this response on the publically accessible internet website <http://www.waco-texas.com/landfill-application-process.asp>.

Mr. Eric Clegg
December 7, 2021
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If you have any questions or need additional information, please do not hesitate to contact Ryan Kuntz, P.E. at (817) 358-6117.

Sincerely,



Ryan Kuntz, P.E.
Vice President/Satellite Office Manager
SCS Engineers
TBPE Registration No. F-3407

Attachments: as described herein

cc: Mr. Charles Dowdell, City of Waco
Mr. Jeffrey Reed, Lloyd Gosselink Rochelle & Townsend, P.C.

TCEQ PART 1 FORM FOR NEW PERMIT FOR A MSW FACILITY (TCEQ-0650)

Facility Name: City of Waco Landfill
Permittee/Registrant Name: City of Waco
MSW Authorization #:2400
Initial Submittal Date: 8/7/2018
Revision Date: 12/6/2021



Texas Commission on Environmental Quality
Part I Form for New Permit/Registration and
Amendment Applications for an MSW Facility

1. Reason for Submittal

☐ Initial Submittal ☒ Notice of Deficiency (NOD) Response

2. Authorization Type

☒ Permit ☐ Registration

3. Application Type

☒ New ☐ Major Amendment
☐ Major Amendment (Limited Scope)

4. Application Fees

☐ Pay by Check ☒ Online Payment

If paid online, e-Pay Confirmation Number: **582EA000311862**

5. Application URL

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

☐ Yes ☒ No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.
<http://http://www.waco-texas.com/landfill-application-process.asp>

6. Application Publishing

Party Responsible for Publishing Notice:

☐ Applicant ☐ Agent in Service ☒ Consultant

Contact Name: **Ryan R. Kuntz, P.E.**
Director

Title: **Vice President /Project**

7. Alternative Language Notice

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

☐ Yes ☒ No

8. Public Place Location of Application

Name of the Public Place: **Waco-McLennan County Central Library / Gibbs Memorial Library**

Physical Address: **1717 Austin Avenue / 305 East Rusk Street**

City: **Waco / Mexia** County: **McLennan / Limestone** State: **TX** Zip Code: **76701 76667**

(Area code) Telephone Number: **254.750.5941 / 254.562.3231**

9. Consolidated Permit Processing

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

☐ Yes ☒ No ☐ Not Applicable

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

10. Confidential Documents

Does the application contain confidential documents?

☐ Yes ☒ No

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

11. Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	☐	☐	☒
Underground Injection Control Program under the Texas Injection Well Act	☐	☐	☒
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	☐	☒	☐
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	☐	☐	☒
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	☐	☐	☒

Permit or Approval	Received	Pending	Not Applicable
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	☐	☐	☒
Dredge or Fill Permits under the CWA	☐	☐	☒
Licenses under the Texas Radiation Control Act	☐	☐	☒
Other (describe)	☐	☐	☐
Other (describe)	☐	☐	☐
Other (describe)	☐	☐	☐
Other (describe)	☐	☐	☐

12. General Facility Information

Facility Name: **City of Waco Landfill**

Contact Name: **Charles Dowdell**

Title: **Director of Solid**

Waste

MSW Authorization No. (if available): **2400**

Regulated Entity Reference No. (if issued)*: **RN110471307**

Physical or Street Address (if available): **4730 T K Parkway**

City: **Axtell** County: **McLennan & Limestone** State: **TX** Zip Code: **76624**

(Area Code) Telephone Number: **(254) 750-1601**

Latitude (Degrees, Minutes Seconds): **N 31° 41' 54.23"**

Longitude (Degrees, Minutes Seconds): **W 96° 55' 43.89"**

Benchmark Elevation (above mean sea level): **541.15** ft.

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: **approximately 0.4 mile south of the intersection of TK Parkway and State Highway 31 in McLennan County**

Detail access routes from the nearest United States or state highway to the facility: **approximately 0.4 mile south of the intersection of TK Parkway and State Highway 31 in McLennan County**

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

13. Facility Type(s)

☒ Type I

☐ Type IV

☐ Type V

☐ Type I AE

☐ Type IV AE

☐ Type VI

14. Activities Conducted at the Facility

☐ Storage

☐ Processing

☒ Disposal

15. Facility Waste Management Unit(s)

- | | |
|--|---|
| ☒ Landfill Unit(s) | ☐ Incinerator(s) |
| ☐ Class 1 Landfill Unit(s) | ☐ Autoclave(s) |
| ☐ Process Tank(s) | ☐ Refrigeration Unit(s) |
| ☐ Storage Tank(s) | ☐ Mobile Processing Unit(s) |
| ☐ Tipping Floor | ☐ Type VI Demonstration Unit |
| ☐ Storage Area | ☐ Compost Pile(s) and/or Vessel(s) |
| ☐ Container(s) | ☐ Other (Specify) |
| ☐ Roll-off Boxes | ☐ Other (Specify) |
| ☐ Surface Impoundment | ☐ Other (Specify) |

16. Description of Proposed Facility or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

Proposed Type I Municipal Solid Waste Landfill located on 502.5 acres of land in McLennan and Limestone Counties, designed in accordance with Title 30, Texas Administrative Code, Chapter 330. The primary purpose of this landfill is to serve as a replacement for the current City of Waco landfill (MSW Permit No. 948A). The landfill will provide disposal capacity for residences, businesses, and industries primarily in the communities of McLennan and Limestone Counties and other nearby counties. Includes submittal of Parts III and IV of the permit application, and responses to technical notice of deficiency letters dated 11/19/18, 2/14/19, 8/19/2020, 11/9/2020, 1/21/2021, 4/19/2021, and May 26, 2021.

17. Facility Contact Information

Site Operator (Permittee/Registrant) Name: City of Waco

Customer Reference No. (if issued)*: **CN600131940**

Contact Name: **Charles Dowdell**

Title: **Director of Solid Waste**

Mailing Address: **501 Schroeder Drive**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76710**

(Area Code) Telephone Number: **(254) 750-1601**

Email Address: **charlesd@wacotx.gov**

TX Secretary of State (SOS) Filing Number:

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

Operator Name¹: same as Permittee

Customer Reference No. (if issued)*:

Contact Name:

Title:

Mailing Address:

City:

County:

State:

Zip Code:

(Area Code) Telephone Number:

Email Address:

TX SOS Filing Number:

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

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

Consultant Name (if applicable): SCS Engineers, TBPE Registration No. F-3407

Texas Board of Professional Engineers Firm Registration Number:

Contact Name: **Ryan R. Kuntz, P.E.**

Title: **Vice Pres., Pr. Director**

Mailing Address: **1901 Central Drive, Suite 550**

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

(Area Code) Telephone Number: **817.358.6117**

E-Mail Address: **rkuntz@scsengineers.com**

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

Mailing Address:

City:

County:

State:

Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

18. Facility Supervisor's License

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

☒ Class A

☐ Class B

19. Ownership Status of the Facility

☐ Corporation

☐ Limited Partnership

☐ Federal Government

☐ Individual

☒ City Government

☐ Other Government

☐ Sole Proprietorship

☐ County Government

☐ Military

☐ General Partnership

☐ State Government

☐ Other (Specify):

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):

20. Other Governmental Entities Information

Texas Department of Transportation District: Waco

District Engineer's Name: **Stanley Swiatek, P.E.**

Street Address or P.O. Box: **100 S. Loop Drive**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76704-2858**

(Area Code) Telephone Number: **(254) 867-2700**

E-Mail Address (optional):

The Local Governmental Authority Responsible for Road Maintenance (if applicable): N.A.

Contact Person's Name:

Street Address or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

City Mayor Information

City Mayor's Name: **Dillion Meek**

Office Address: **300 Austin Ave**

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

(Area Code) Telephone Number: **(254) 750-5750**

E-Mail Address (optional): **dillon.meek@wcotx.gov**

City Health Authority: Waco-McLennan County Public Health District

Contact Person's Name: **Dr. Brenda Gray, Director**

Street Address or P.O. Box: **225 W. Waco Drive**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76707**

(Area Code) Telephone Number: **(254) 750-5450**

E-Mail Address (optional):

County Judge Information

County Judge's Name: **Scott M. Felton**

Street Address or P.O. Box: **501 Washington Ave, Room 214**

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

(Area Code) Telephone Number: **(254) 757-5049**

E-Mail Address (optional):

County Health Authority: Waco-McLennan County Public Health District

Contact Person's Name: **E. Farley Verner, M.D.**

Street Address or P.O. Box: **7030 New Sanger Road, Suite 202**

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

(Area Code) Telephone Number: **(254) 855-9790**

E-Mail Address (optional): **farleyverner@gmail.com**

State Representative Information

District Number: **12**

State Representative's Name: **Kyle Kacal**

District Office Address: **3000 Briarcrest Dr., Ste 203**

City: **Bryan** County: **Brazos** State: **TX** Zip Code: **77802**

(Area Code) Telephone Number: **979-774-7276**

E-Mail Address (optional):

State Senator Information

District Number: **22**

State Senator's Name: **The Honorable Brian Birdwell**

District Office Address: **900 Austin Ave, Suite 500**

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

(Area Code) Telephone Number: **(254) 772-6225**

E-Mail Address (optional):

Council of Government (COG) Name: Heart of Texas

COG Representative's Name: **Falen Bohannon**

COG Representative's Title: **Solid Waste Program Manager**

Street Address or P.O. Box: **1514 S. New Road**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76711**

(Area Code) Telephone Number: **(254)292-1800**

E-Mail Address (optional): **Falen.Bohannon@hotmail.com**

County Judge Information

County Judge's Name: **Limestone County Judge: Honorable Richard Duncan**

Street Address or P.O. Box: **200 W. State ST., Ste 101**

City: **Groesbeck** County: **Limestone** State: **TX** Zip Code: **76642**

(Area Code) Telephone Number: **254-729-3810**

E-Mail Address (optional):

County Health Authority: Limestone Medical Center

Contact Person's Name: **Dr. Jeffrey Rettig**

Street Address or P.O. Box: **204 W. Trinity Street**

City: **Groesbeck** County: **Limestone** State: **TX** Zip Code: **76642**

(Area Code) Telephone Number: **254-729-3740**

E-Mail Address (optional):

State Representative Information

District Number: **12**

State Representative's Name: **Kyle Kacal**

District Office Address: **3000 Briarcrest Dr., Ste 203**

City: **Bryan** County: **Brazos** State: **TX** Zip Code: **77802**

(Area Code) Telephone Number: **979-774-7276**

E-Mail Address (optional):

State Senator Information

District Number: **5**

State Senator's Name: **Charles Schwertner**

District Office Address: **3000 Briarcrest Drive, Suite 202**

City: **Bryan** County: **Brazos** State: **TX** Zip Code: **77802**

(Area Code) Telephone Number: **979-776-0222**

E-Mail Address (optional):

Council of Government (COG) Name: Heart of Texas

COG Representative's Name: **Falen Bohannon**

COG Representative's Title: **Solid Waste Program Manager**

Street Address or P.O. Box: **1514 S. New Road**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76711**

(Area Code) Telephone Number: **(254)292-1800**

E-Mail Address (optional): **Falen.Bohannon@hotmail.com**

River Basin Authority Name: Brazos River Authority

Contact Person's Name: **Phil Ford**

Watershed Sub-Basin Name:

Street Address or P.O. Box: **4600 Cobbs Drive**

City: **Waco** County: **McLennan** State: **TX** Zip Code: **76710**

(Area Code) Telephone Number: **(888) 922-6272**

E-Mail Address (optional):

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

☐ Yes ☒ No

U.S. Army Corps of Engineers

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

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

Local Government Jurisdiction

Within City Limits of:

Within Extraterritorial Jurisdiction of:

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

☐ Yes ☒ No

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

Signature Page

I, Bradley Ford, _____, City Manager,
(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: [Signature]

Date: 12-6-21

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 Bradley Ford

On this 6th day of December, 2021

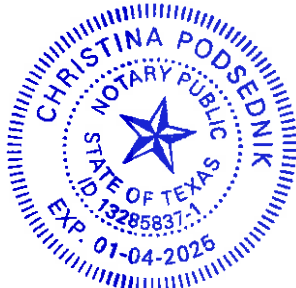
My commission expires on the 01 day of 04, 2025

Christina Podsednik

Notary Public in and for

McLennan County, Texas

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



Part I Attachments

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

Required Attachments	Attachment No.
Supplementary Technical Report	X
Property Legal Description	X
Property Metes and Bounds Description	X
Facility Legal Description	X
Facility Metes and Bounds Description	X
Metes and Bounds Drawings	X
On-Site Easements Drawing	X
Land Ownership Map	X
Land Ownership List	X
Electronic List or Mailing Labels	X
Texas Department of Transportation (TxDOT) County Map	X
General Location Map	X
General Topographic Map	X
Verification of Legal Status	X
Property Owner Affidavit	X
Evidence of Competency	X
Additional Attachments as Applicable- Select all those apply and add as necessary	
☒ TCEQ Core Data Form(s)	X
☒ Signatory Authority Delegation	X
☒ Fee Payment Receipt	X
☐ Confidential Documents	
☐ Waste Storage, Processing and Disposal Ordinances	
☐ Final Plat Record of Property	
☐ Certificate of Fact (Certificate of Incorporation)	
☐ Assumed Name Certificate	

MARKED VERSION

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PARTS I/II
GENERAL APPLICATION REQUIREMENTS**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710



Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407
Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288

Revision 0 - August 2018, September 2018 (Admin NOD #1)

Revision 1 – January 2019

Revision 2 – March 2019

Revision 3 – October 2020

Revision 4 – December 2020

Revision 5 – April 2021

Revision 6 – June 2021

Revision 7 – October 2021

Revision 8 – December 2021

SCS Project No. 16216088.00

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Drawings

Drawing I/II-1: Site Location Map
Drawing I/II-2: General Topographic Map (includes Wind Rose)
Drawing I/II-3: Landowner's Map
Drawing I/II-4: Aerial Photograph (9 inch X 9 inch)
Drawing I/II-5: Facility Layout Map
Drawing I/II-6: Regional Tectonic/Geology Map
Drawing I/II-7: Seismic Impact Map

Appendices

I/IIA Demonstration of Coordination
I/IIB Water, Oil, and Natural Gas Well Search
I/IIC Land-Use Analysis
I/IID Traffic Analysis
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I/II G Biological Assessment
I/II H Union Pacific Railroad, Release and Quitclaim of Easement



3 EXISTING CONDITIONS SUMMARY (30 TAC §330.61(a))

The existing site conditions are generally depicted on Drawing I/II-2 – General Topographic Map. The proposed landfill will be located on a 502.5-acre property (referred to herein as “the Site”) that is located approximately 0.4 mile south of the intersection of State Highway 31 and FM 939 (see Drawing I/II-1). The Site, which is located in both McLennan and Limestone Counties, is currently comprised of rural native pasture land. The Site is relatively flat, and slopes gently to the center of the site towards Horse Creek. Surface water generally drains southeast from the western portion of the Site towards Horse Creek and generally drains south/southwest from the eastern portion of the Site towards Horse Creek and Packwood Creek. These creeks are tributaries of Soil Conservation Services Site 19 Reservoir, which discharges into Williams Creek located south of the Site and eventually flows into Tehuacana Creek about 11 miles southwest of the Site.

A portion of the Site is located in the 100-year floodplain, as described in Section 11.1. The waste disposal footprint is located entirely outside the limits of the 100-year floodplain (see Drawing I/II-5).

There are three (3) known easements on the Site, including a flowage, waterline, and electric line easement, as shown on the metes and bound survey in Section 14, Attachment 14A. The flowage easement is under the jurisdiction of the Tehuacana Creek Water Control and Improvement District Number One (1) of Leroy, Texas. The flowage easement instrument states that: “This easement includes the right of ingress and egress at any time over and upon the above described land of the Grantor and any other land of the Grantor adjoining said land.” Access routes for use by the Tehuacana Creek Water Control and Improvement District Number One (1) of Leroy, Texas to the flowage easement through the landfill property and access points from adjacent City-owned property are provided on Drawings 3.1A and 6A.3A, related to Flowage Easement Access Route Plan, located in Attachments 3 and 6A, respectively. No waste is proposed to be placed in the flowage easement or the access routes to the flowage easement. There is also a 20-foot electric line easement and 15-foot waterline easement on the property on the west side of the property. No waste is proposed to be placed in either the electric line easement or the waterline easement. All existing easements and associated deed records are further identified on the metes and bound survey provided in Section 14, Attachment 14A.

At the time of the initial permit application submittal, a 10-foot fiber optic easement that traversed the northern portion of the Site in a northeast/southwest direction. This easement was previously owned by Union Pacific Railroad (UPRR); however, this easement was cancelled and released by UPRR to City of Waco in May 2020. Documentation of the cancellation and release of the subject easements in both McLennan County and Limestone counties are provided in Appendix I/III – Union Pacific Railroad, Release and Quitclaim of Easement.

ATTACHMENT 14A

**METES AND BOUNDS SURVEY
AND LEGAL DESCRIPTION**



**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III
SITE DEVELOPMENT PLAN
ATTACHMENT 1
SITE LAYOUT PLANS**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407
Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – December 2021
SCS Project No. 16216088.00

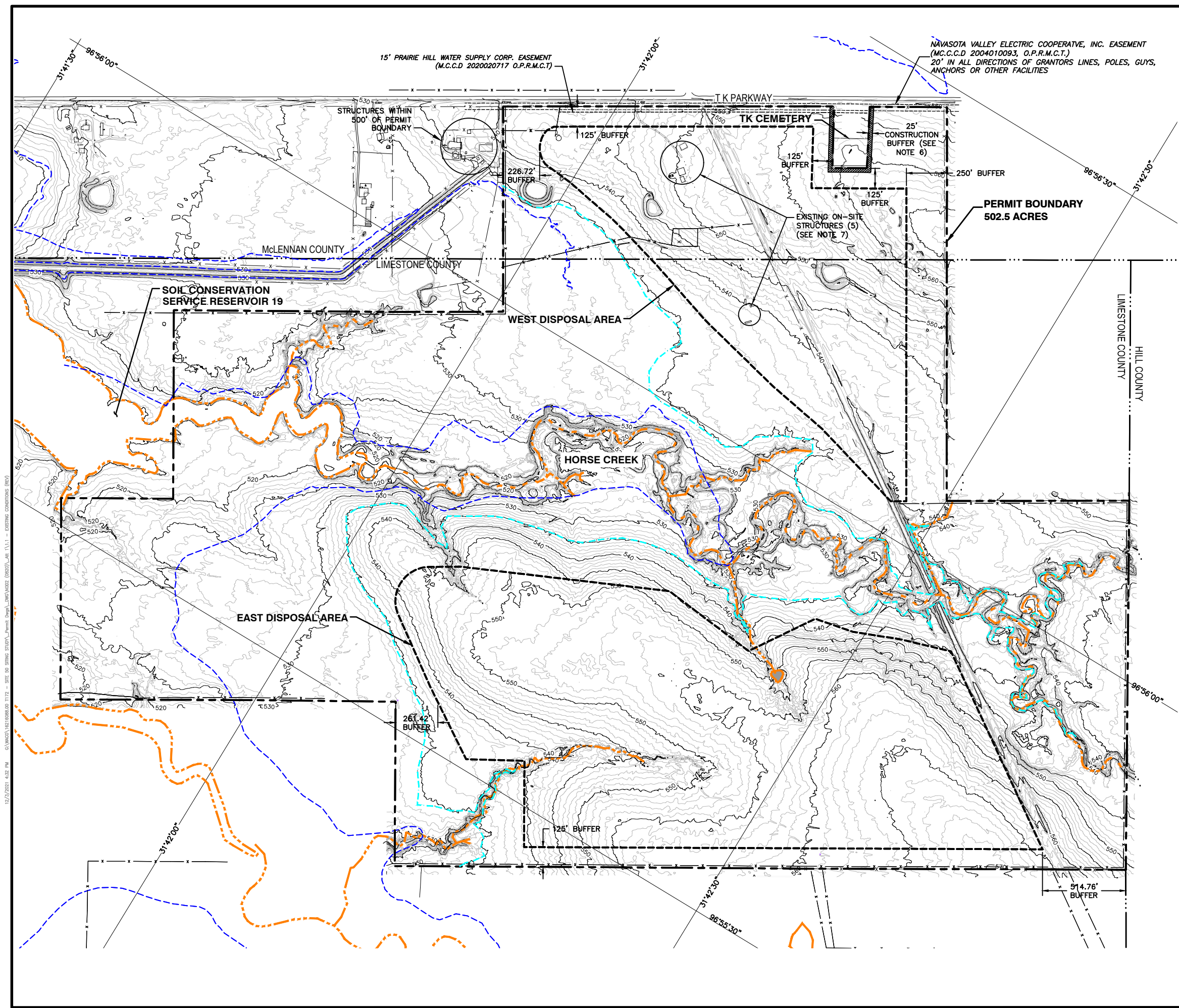
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- 1.2 Detailed Facility Layout and Sequence Plan
- 1.3 East Disposal Area Excavation Plan
- 1.4 West Disposal Area Excavation Plan
- 1.5 Entrance Facility Plan
- 1.6 Waste Flow Diagram



SCS Engineers
TBPE Reg. # F-3407



LEGEND

- PERMIT BOUNDARY
- LIMITS OF WASTE
- 560--- EXISTING TOPOGRAPHIC CONTOURS (SEE NOTE 1)
- COUNTY LINE
- x EXISTING FENCE
- 100-YEAR FLOOD PLAIN (SEE NOTE 2)
- POTENTIAL JURISDICTIONAL WATER LOCATION (SEE NOTE 4)
- 96°55'30"--- LATITUDE/LONGITUDE LINES
- SURVEYED FLOWAGE EASEMENT (534.5' NGVD 29 CONTOUR, REFER TO NOTE 5)

- NOTES:**
1. THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS DEVELOPED BY DAS GEOSPATIAL FLOWN ON JULY 03, 2018.
 2. 100-YEAR FLOOD PLAIN IS DESIGNATED AS ZONE A, BASED ON FIRM PANEL 48293C0125C, DATED 09/16/11 (LIMESTONE COUNTY), AND FIRM PANEL 48309C0250D, DATED 12/20/19 (MCLENNAN COUNTY).
 3. CONSISTENT WITH TCEQ REGULATIONS A MINIMUM BUFFER ZONE OF 125' WILL BE MAINTAINED BETWEEN THE WASTE LIMIT BOUNDARY AND PERMIT BOUNDARY.
 4. THE LOCATION OF THE POTENTIAL JURISDICTIONAL WATERS ARE REFERENCED FROM THE REPORT GENERAL JURISDICTION DETERMINATION PREPARED BY HORIZON ENVIRONMENTAL SERVICES, INC. (SEE APPENDIX I/IIA, AGENCY COORDINATION WITH THE COE).
 5. A FLOWAGE EASEMENT EXISTS ON THE PROPERTY THAT IS UNDER THE JURISDICTION OF THE TECHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER (1) OF LEROY, TEXAS SUBJECT TO THE EASEMENT RECORDED IN VOLUME 498, PAGE 118, VOLUME 506, PAGE 181, VOLUME 507, PAGE 378, AND VOLUME 509, PAGE 417 OF THE DEED RECORDS OF LIMESTONE COUNTY, TEXAS. THIS DOCUMENT STATES THAT: "THIS EASEMENT INCLUDES THE RIGHT OF INGRESS AND EGRESS AT ANY TIME OVER AND UPON THE ABOVE DESCRIBED AND OF THE GRANTOR AND ANY OTHER LAND OF THE GRANTOR ADJOINING SAID LAND". SEE DRAWINGS 3.1A AND 6A.3A FOR EASEMENT ACCESS ROUTE LOCATIONS.
 6. IN ACCORDANCE WITH "AN INTENSIVE CULTURAL RESOURCES SURVEY OF THE CITY OF WACO'S PROPOSED SITE 50 LANDFILL PROJECT," PREPARED BY HORIZON ENVIRONMENTAL SERVICES, INC., DATED NOVEMBER 2018 (SEE APPENDIX I/IIA), A 25-FOOT CONSTRUCTION BUFFER WILL BE MAINTAINED AROUND TK CEMETERY TO PROTECT ANY POTENTIAL UNMARKED GRAVES OUTSIDE THE PRESENT MODERN DAY CEMETERY BOUNDARIES AND FENCING.
 7. THE EXISTING STRUCTURES WITHIN THE BOUNDARY OF WASTE DISPOSAL AREA (WDA) WILL BE ABANDONED AND DEMOLISHED PRIOR TO DEVELOPMENT OF THE RESPECTIVE SECTORS (I.E. SECTORS 10 AND 11) OF THE WDA WHERE THE EXISTING STRUCTURE IS LOCATED.



FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY	CHK
1	10/20/2020	REVISIONS INCLUDE: FLOODPLAIN, FLOWAGE EASEMENT, WATER SUPPLY EASEMENT, FIBER OPTIC EASEMENT, LIMITS OF WASTE, NOTE 2, AND RENUMBERED NOTES.	RRK	
2	12/20/2021	UPDATE NOTE 5 FOR FLOWAGE EASEMENT ACCESS	RRK	

DRAWING TITLE
EXISTING CONDITIONS PLAN

PROJECT TITLE
CITY OF WACO LANDFILL
TYPE I MSW - PERMIT APPLICATION

CITY OF WACO
SOLID WASTE SERVICES

CLIENT
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.
104689

DWN. BY: NR
CHK. BY: BJD
APP. BY: RRK

CADD FILE:
1:1 - EXISTING CONDITIONS (REV)

DATE:
04/2020

SCALE:
AS SHOWN

DRAWING NO.
1.1

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III
SITE DEVELOPMENT PLAN
ATTACHMENT 3
LANDFILL COMPLETION PLAN**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407
Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – December 2021
SCS Project No. 16216088.00

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SCS Engineers
TBPE Reg. # F-3407

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III – SITE DEVELOPMENT PLAN
ATTACHMENT 6A
SURFACE WATER DRAINAGE PLAN**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407

Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – June 2021
Revision 3 – December 2021
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SCS Engineers
TBPE Reg. # F-3407

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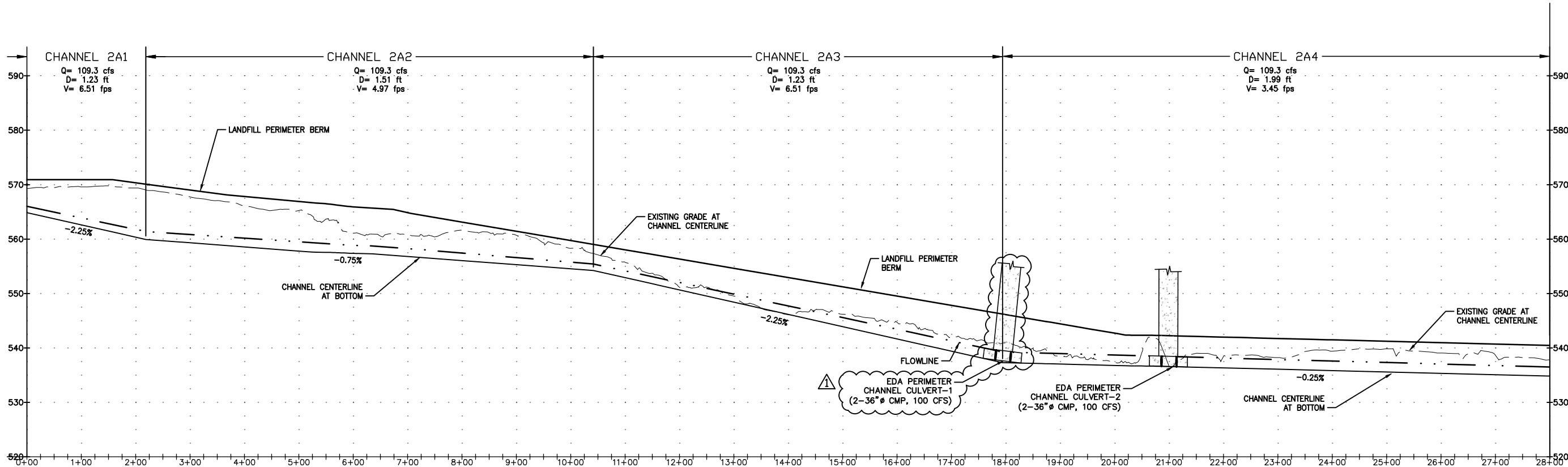
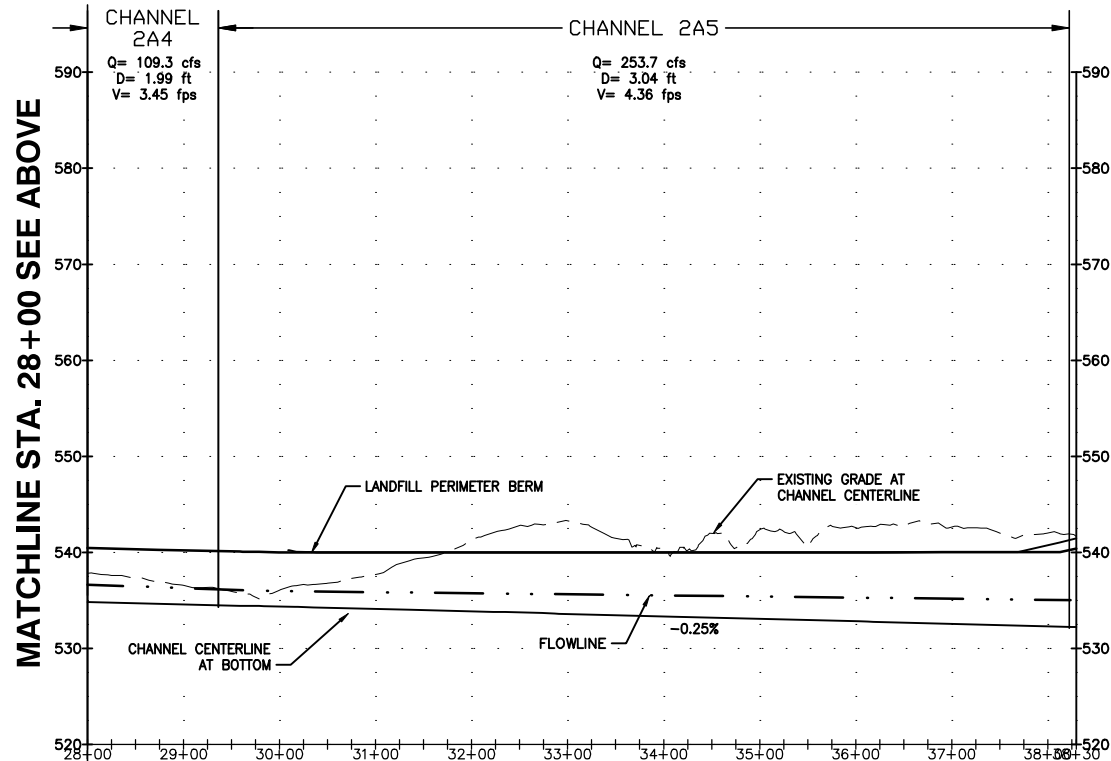


SCS Engineers
TBPE Reg. # F-3407

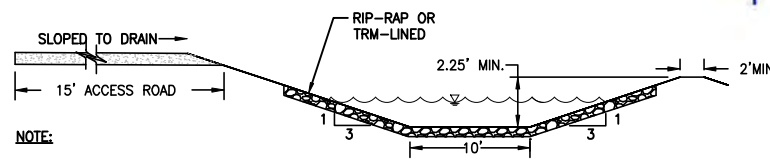
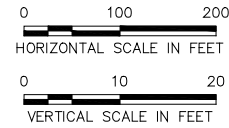
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6A.1A through 6A.16

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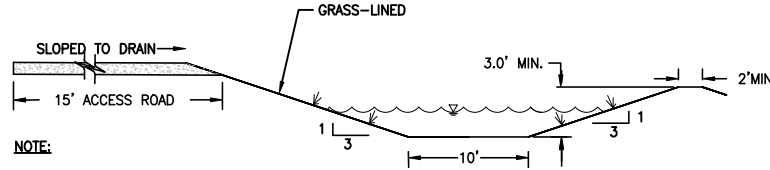


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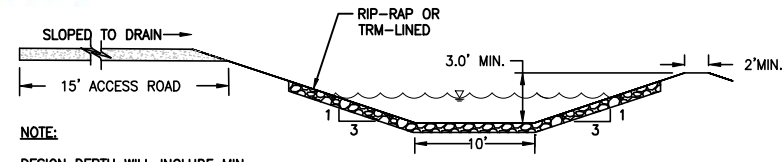
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DESIGN DEPTH WILL INCLUDE MIN. 1-FOOT FREEBOARD ABOVE D_{25} (DEPTH AT 25-YEAR, 24-HOUR STORM EVENT).

**CHANNEL 2A1
TYPICAL CROSS-SECTION
NOT TO SCALE**



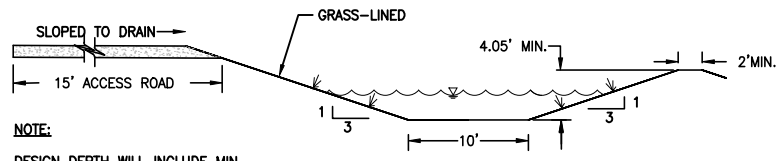
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**CHANNEL 2A2, AND 2A4
TYPICAL CROSS-SECTION
NOT TO SCALE**



NOTE:
DESIGN DEPTH WILL INCLUDE MIN. 1-FOOT FREEBOARD ABOVE D_{25} (DEPTH AT 25-YEAR, 24-HOUR STORM EVENT).

**CHANNEL 2A3
TYPICAL CROSS-SECTION
NOT TO SCALE**



NOTE:
DESIGN DEPTH WILL INCLUDE MIN. 1-FOOT FREEBOARD ABOVE D_{25} (DEPTH AT 25-YEAR, 24-HOUR STORM EVENT).

**CHANNEL 2A5
TYPICAL CROSS-SECTION
NOT TO SCALE**

REV	DATE	DESCRIPTION	BY
1	12/2/2021	UPDATE NOTE 5 FOR FLOWAGE EASEMENT ACCESS	RRK
2			RRK
3			RRK
4			RRK
5			RRK

DRAWING TITLE	CHANNEL PROFILE
PROJECT TITLE	CHANNEL 2A1 TO CHANNEL 2A5
CITY OF WACO LANDFILL	
TYPE I MSW - PERMIT APPLICATION	

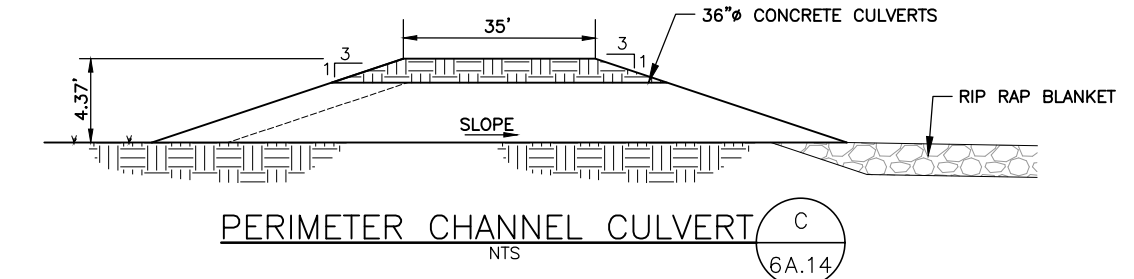
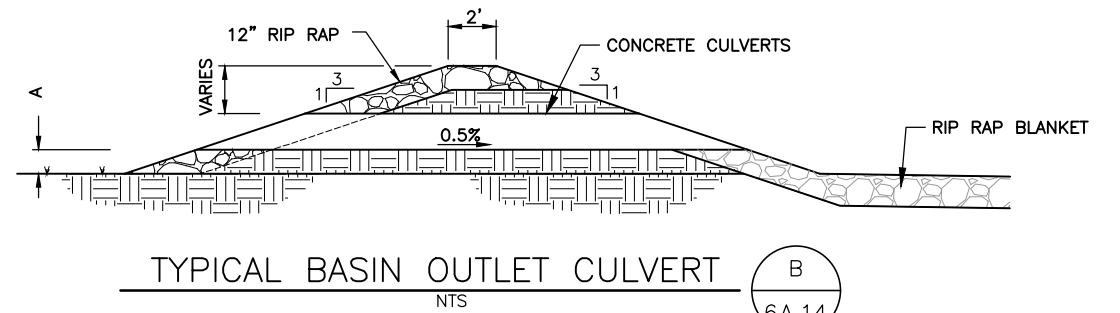
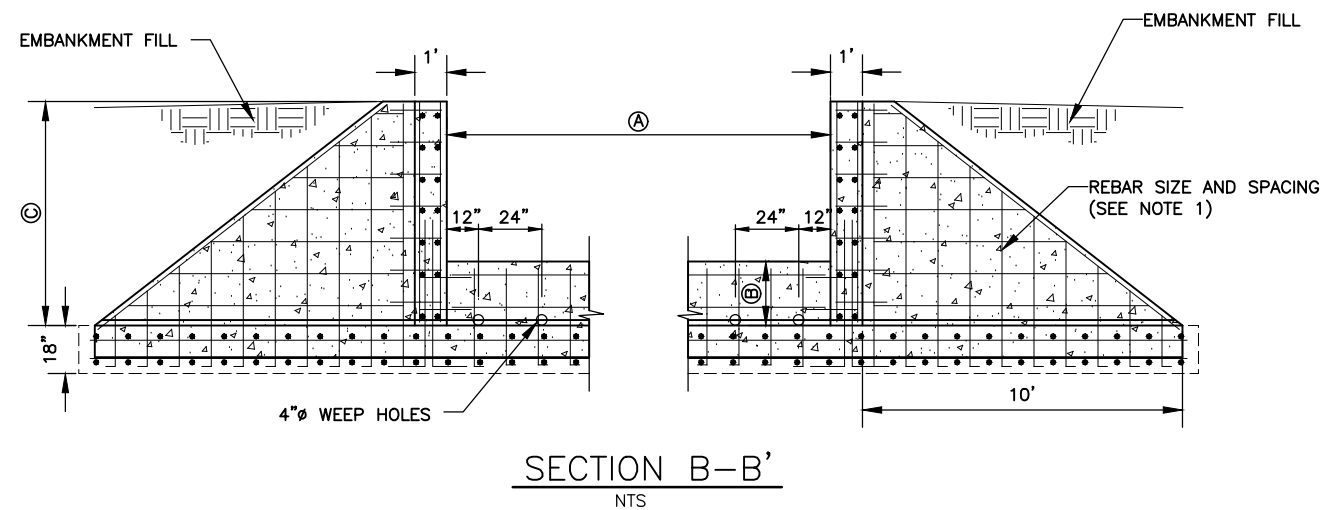
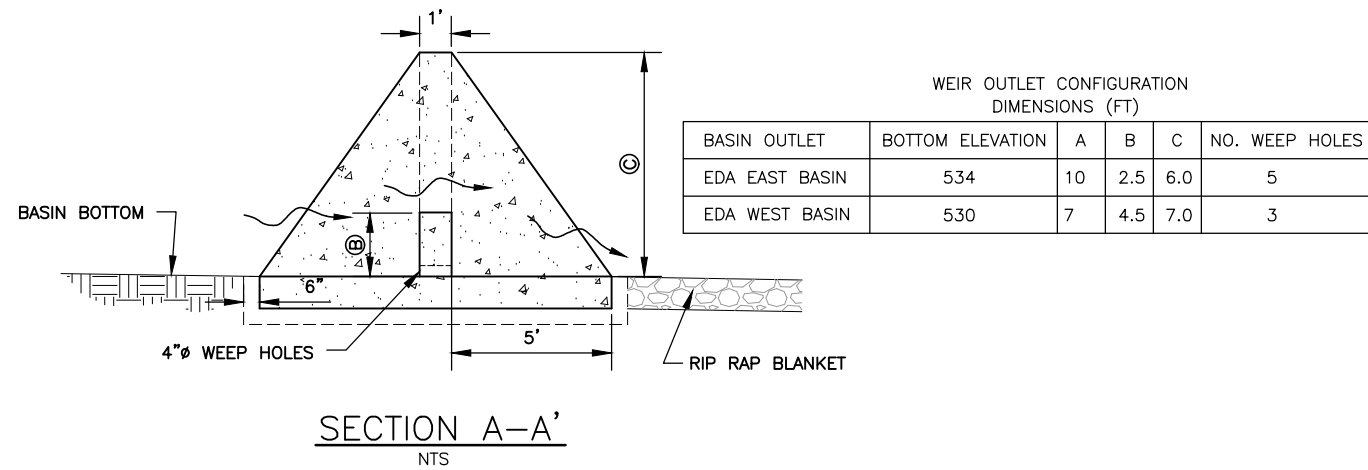
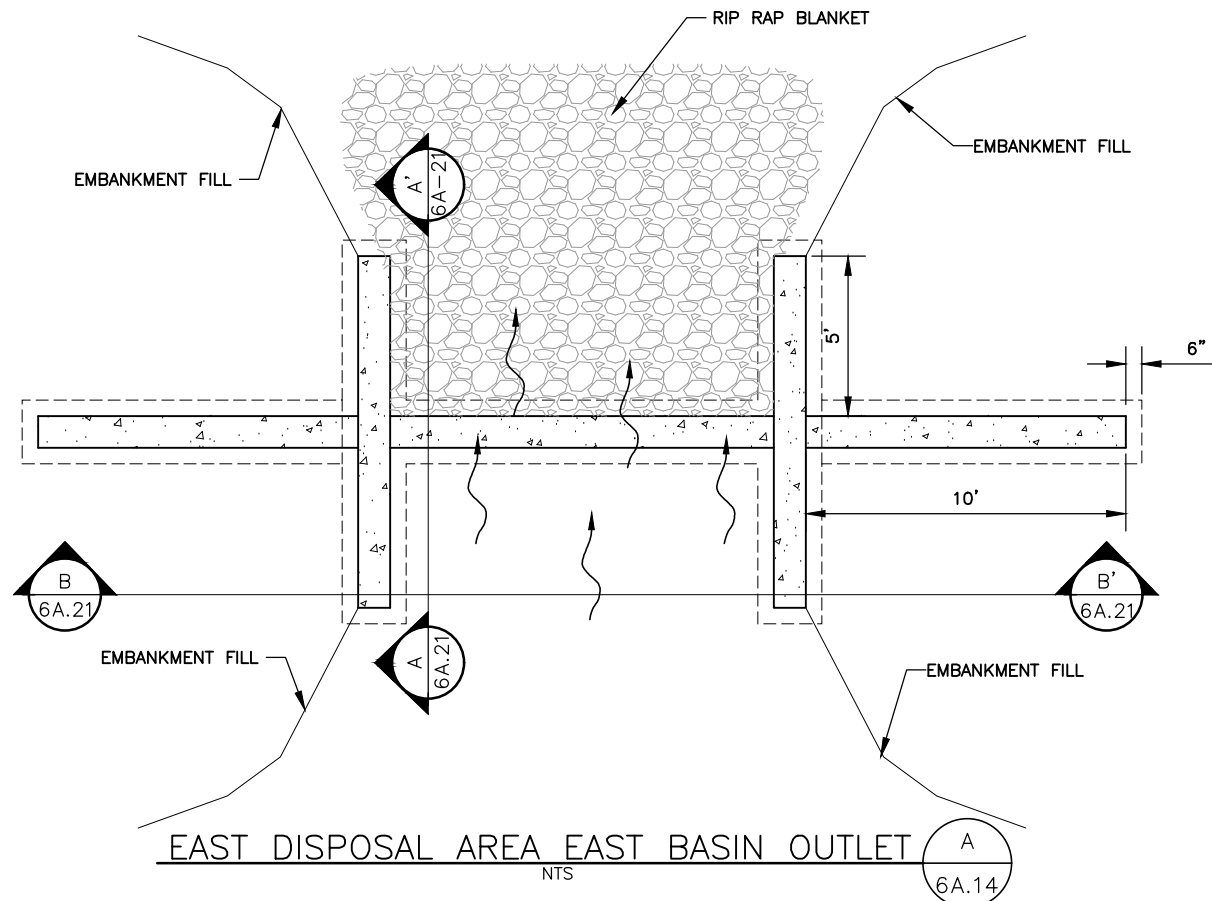
CLIENT	CITY OF WACO
SOLID WASTE SERVICES	

SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT
CONSULTING ENGINEERS	1801 CENTRAL DRIVE, SUITE 550, BEDFORD, TX 76021
PH (817) 571-4288	FAX NO. (817) 571-4288
PROJ. NO. 1621086.00	DWN. BY: NR
CHK. BY: BJD	APP. BY: RRK

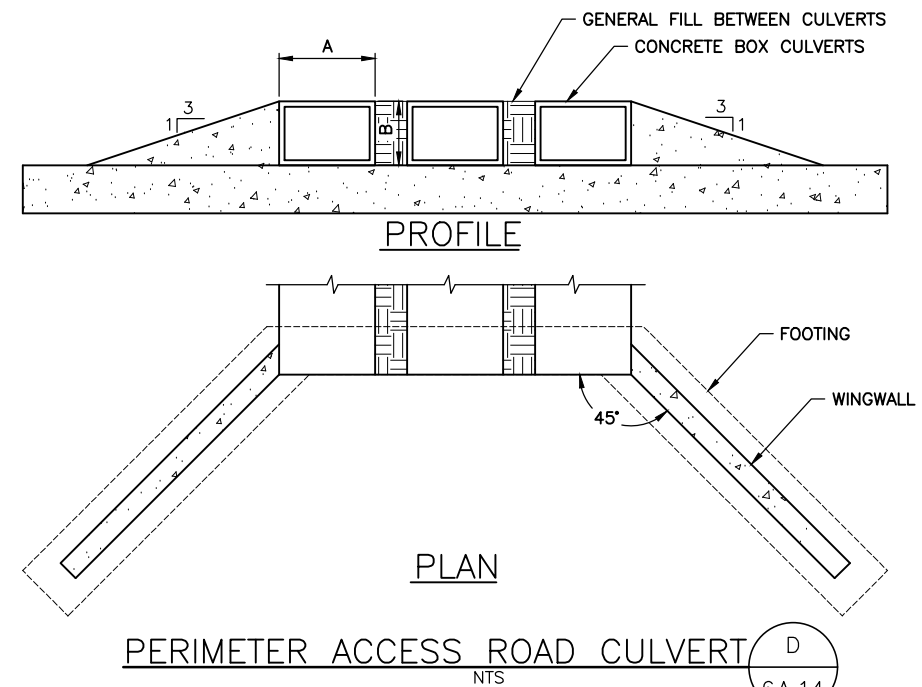
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DATE:	04/2020
SCALE:	AS SHOWN
DRAWING NO.	6A.5

FOR PERMITTING PURPOSES ONLY

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NOTE:
* PERIMETER CHANNEL CULVERT 1 FOR FLOWAGE EASEMENT ACCESS IS SHOWN ON DRAWING 3.1A AND 6A.3A.



REV	DATE	DESCRIPTION	BY
1	12/2021	UPDATE NOTE 5 FOR FLOWAGE EASEMENT ACCESS	

DRAWING TITLE	PROJECT TITLE	CLIENT
BASIN OUTLET DETAILS	CITY OF WACO LANDFILL TYPE I MSW - PERMIT APPLICATION	CITY OF WACO SOLID WASTE SERVICES

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. 16210086.00	DWN. BY: NR	CHEK. BY: BJD	D/A RW BY: RRK	APP. BY: RRK

CADD FILE: 6A-14(REV)	DATE: 04/2020
SCALE: AS SHOWN	DRAWING NO. 6A.14

FOR PERMITTING PURPOSES ONLY

UNMARKED VERSION

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PARTS I/II
GENERAL APPLICATION REQUIREMENTS**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710



Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407
Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288

Revision 0 - August 2018, September 2018 (Admin NOD #1)

Revision 1 – January 2019

Revision 2 – March 2019

Revision 3 – October 2020

Revision 4 – December 2020

Revision 5 – April 2021

Revision 6 – June 2021

Revision 7 – October 2021

Revision 8 – December 2021

SCS Project No. 16216088.00

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Drawing I/II-2: General Topographic Map (includes Wind Rose)
Drawing I/II-3: Landowner's Map
Drawing I/II-4: Aerial Photograph (9 inch X 9 inch)
Drawing I/II-5: Facility Layout Map
Drawing I/II-6: Regional Tectonic/Geology Map
Drawing I/II-7: Seismic Impact Map

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I/IIB Water, Oil, and Natural Gas Well Search
I/IIC Land-Use Analysis
I/IID Traffic Analysis
I/IID-1 TxDOT Waco District Traffic Map
I/IID-2 Traffic Impact Analysis
I/II E Section 404 Approved Jurisdictional Determination
I/II F Certified City Charter
I/II G Biological Assessment
I/II H Union Pacific Railroad, Release and Quitclaim of Easement



3 EXISTING CONDITIONS SUMMARY (30 TAC §330.61(a))

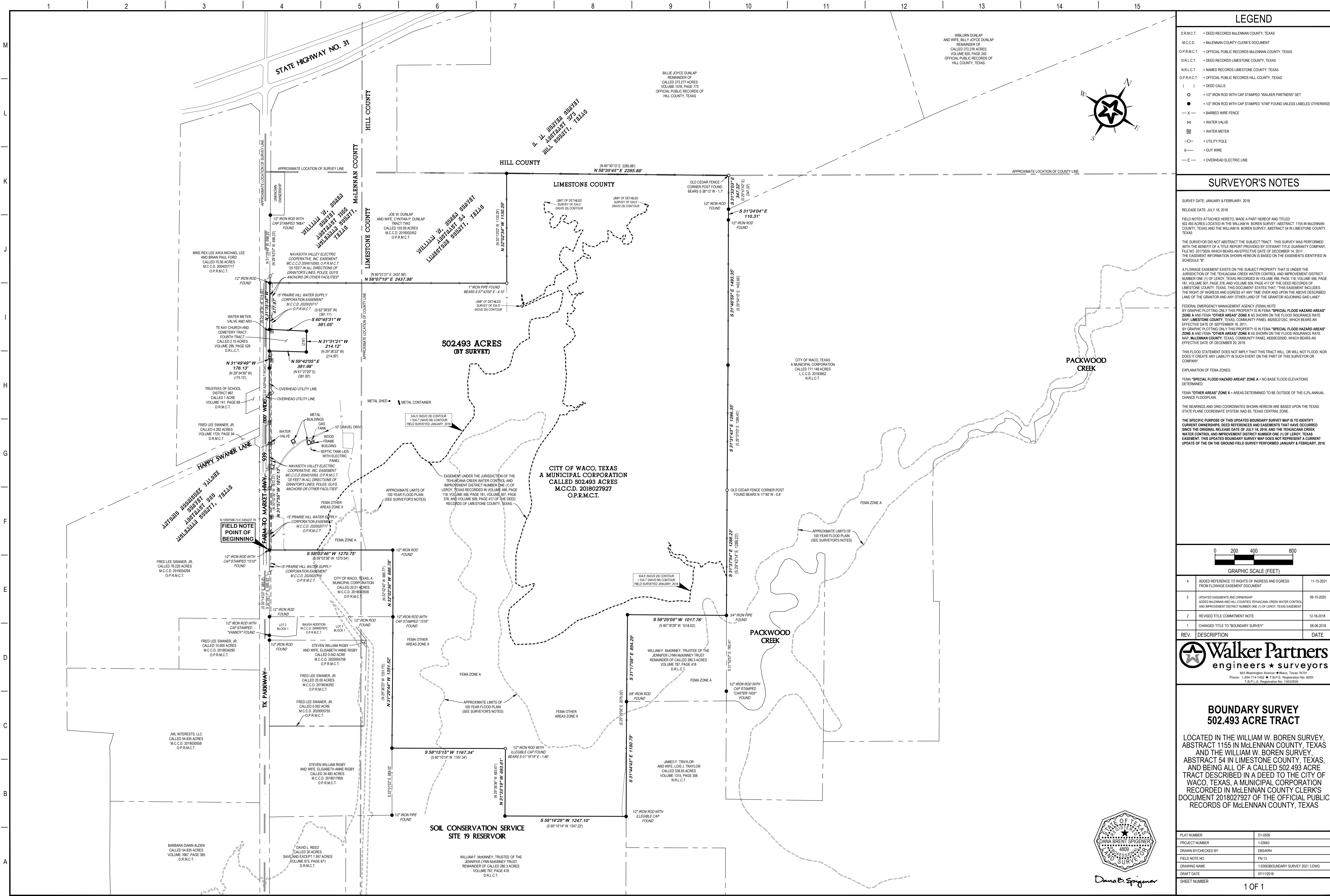
The existing site conditions are generally depicted on Drawing I/II-2 – General Topographic Map. The proposed landfill will be located on a 502.5-acre property (referred to herein as “the Site”) that is located approximately 0.4 mile south of the intersection of State Highway 31 and FM 939 (see Drawing I/II-1). The Site, which is located in both McLennan and Limestone Counties, is currently comprised of rural native pasture land. The Site is relatively flat, and slopes gently to the center of the site towards Horse Creek. Surface water generally drains southeast from the western portion of the Site towards Horse Creek and generally drains south/southwest from the eastern portion of the Site towards Horse Creek and Packwood Creek. These creeks are tributaries of Soil Conservation Services Site 19 Reservoir, which discharges into Williams Creek located south of the Site and eventually flows into Tehuacana Creek about 11 miles southwest of the Site.

A portion of the Site is located in the 100-year floodplain, as described in Section 11.1. The waste disposal footprint is located entirely outside the limits of the 100-year floodplain (see Drawing I/II-5).

There are three (3) known easements on the Site, including a flowage, waterline, and electric line easement, as shown on the metes and bound survey in Section 14, Attachment 14A. The flowage easement is under the jurisdiction of the Tehuacana Creek Water Control and Improvement District Number One (1) of Leroy, Texas. The flowage easement instrument states that: “This easement includes the right of ingress and egress at any time over and upon the above described land of the Grantor and any other land of the Grantor adjoining said land.” Access routes for use by the Tehuacana Creek Water Control and Improvement District Number One (1) of Leroy, Texas to the flowage easement through the landfill property and access points from adjacent City-owned property are provided on Drawings 3.1A and 6A.3A, related to Flowage Easement Access Route Plan, located in Attachments 3 and 6A, respectively. No waste is proposed to be placed in the flowage easement or the access routes to the flowage easement. There is also a 20-foot electric line easement and 15-foot waterline easement on the property on the west side of the property. No waste is proposed to be placed in either the electric line easement or the waterline easement. All existing easements and associated deed records are further identified on the metes and bound survey provided in Section 14, Attachment 14A.

At the time of the initial permit application submittal, a 10-foot fiber optic easement that traversed the northern portion of the Site in a northeast/southwest direction. This easement was previously owned by Union Pacific Railroad (UPRR); however, this easement was cancelled and released by UPRR to City of Waco in May 2020. Documentation of the cancellation and release of the subject easements in both McLennan County and Limestone counties are provided in Appendix I/III – Union Pacific Railroad, Release and Quitclaim of Easement.

ATTACHMENT 14A
METES AND BOUNDS SURVEY
AND LEGAL DESCRIPTION



LEGEND

D.R.M.C.T.

= DEED RECORDS McLENNAN COUNTY, TEXAS

M.C.D.

= McLENNAN COUNTY CLERK'S DOCUMENT

O.P.R.M.C.T.

= OFFICIAL PUBLIC RECORDS McLENNAN COUNTY, TEXAS

D.R.L.C.T.

= DEED RECORDS LIMESTONE COUNTY, TEXAS

N.R.L.C.T.

= NAMED RECORDS LIMESTONE COUNTY, TEXAS

O.P.R.H.C.T.

= OFFICIAL PUBLIC RECORDS HILL COUNTY, TEXAS

()

= DEED CALLS

○

= 1/2" IRON ROD WITH CAP STAMPED "WALKER PARTNERS" SET

●

= 1/2" IRON ROD WITH CAP STAMPED "1748" FOUND UNLESS LABELED OTHERWISE

—X—

= BARBED WIRE FENCE

⋈

= WATER VALVE

⊞

= WATER METER

○—○

= UTILITY POLE

—

= GUY WIRE

—E—

= OVERHEAD ELECTRIC LINE

SURVEYOR'S NOTES

SURVEY DATE: JANUARY & FEBRUARY, 2018

RELEASE DATE: JULY 18, 2018

FIELD NOTES ATTACHED HERETO, MADE A PART HEREOF AND TITLED:
502.493 ACRES LOCATED IN THE WILLIAM W. BOREN SURVEY, ABSTRACT 1155 IN McLENNAN COUNTY, TEXAS AND THE WILLIAM W. BOREN SURVEY, ABSTRACT 54 IN LIMESTONE COUNTY, TEXAS

THE SURVEYOR DID NOT ABSTRACT THE SUBJECT TRACT. THIS SURVEY WAS PERFORMED WITH THE BENEFIT OF A TITLE REPORT PROVIDED BY STEWART TITLE GUARANTY COMPANY, FILE NO. 20170209, WHICH BEARS AN EFFECTIVE DATE OF DECEMBER 14, 2017. THE EASEMENT INFORMATION SHOWN HEREON IS BASED ON THE EASEMENTS IDENTIFIED IN SCHEDULE "B".

A FLOWAGE EASEMENT EXISTS ON THE SUBJECT PROPERTY THAT IS UNDER THE JURISDICTION OF THE TEHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE (1) OF LEROY, TEXAS RECORDED IN VOLUME 488, PAGE 118, VOLUME 506, PAGE 181, VOLUME 507, PAGE 378, AND VOLUME 509, PAGE 417 OF THE DEED RECORDS OF LIMESTONE COUNTY, TEXAS. THIS DOCUMENT STATES THAT: "THIS EASEMENT INCLUDES THE RIGHT OF INGRESS AND EGRESS AT ANY TIME OVER AND UPON THE ABOVE DESCRIBED LAND OF THE GRANTOR AND ANY OTHER LAND OF THE GRANTOR ADJOINING SAID LAND".

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NOTE:
BY GRAPHIC PLOTTING ONLY THIS PROPERTY IS IN FEMA "SPECIAL FLOOD HAZARD AREAS" ZONE A AND FEMA "OTHER AREAS" ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, LIMESTONE COUNTY, TEXAS, COMMUNITY PANEL 483002025C, WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 16, 2011.
BY GRAPHIC PLOTTING ONLY THIS PROPERTY IS IN FEMA "SPECIAL FLOOD HAZARD AREAS" ZONE A AND FEMA "OTHER AREAS" ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, McLENNAN COUNTY, TEXAS, COMMUNITY PANEL 483002050D, WHICH BEARS AN EFFECTIVE DATE OF DECEMBER 20, 2019.

THIS FLOOD STATEMENT DOES NOT IMPLY THAT THIS TRACT WILL, OR WILL NOT FLOOD, NOR DOES IT CREATE ANY LIABILITY IN SUCH EVENT ON THE PART OF THIS SURVEYOR OR COMPANY.

EXPLANATION OF FEMA ZONES:
FEMA "SPECIAL FLOOD HAZARD AREAS" ZONE A = NO BASE FLOOD ELEVATIONS DETERMINED.
FEMA "OTHER AREAS" ZONE X = AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THE BEARINGS AND GRID COORDINATES SHOWN HEREON ARE BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83, TEXAS CENTRAL ZONE.

THE SPECIFIC PURPOSE OF THIS UPDATED BOUNDARY SURVEY MAP IS TO IDENTIFY CURRENT OWNERSHIP, DEED REFERENCES AND EASEMENTS THAT HAVE OCCURRED SINCE THE ORIGINAL RELEASE DATE OF JULY 18, 2018, AND THE TEHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE (1) OF LEROY, TEXAS EASEMENT. THIS UPDATED BOUNDARY SURVEY MAP DOES NOT REPRESENT A CURRENT UPDATE OF THE ON THE GROUND FIELD SURVEY PERFORMED JANUARY & FEBRUARY, 2018.

0 200 400 800

GRAPHIC SCALE (FEET)

4	ADDED REFERENCE TO RIGHTS OF INGRESS AND EGRESS FROM FLOWAGE EASEMENT DOCUMENT	11-15-2021
3	UPDATED EASEMENTS AND OWNERSHIP: ADDED McLENNAN AND HILL COUNTIES TEHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE (1) OF LEROY, TEXAS EASEMENT	09-10-2020
2	REVISED TITLE COMMITMENT NOTE	12-18-2018
1	CHANGED TITLE TO "BOUNDARY SURVEY"	08-06-2018

REV	DESCRIPTION	DATE

★

Walker Partners

engineers ★ surveyors

223 Washington Avenue • Waco, Texas 76701
Phone: 1-254-774-1400 • T.D.P.E. Registration No. 8053
T.B.P.L.S. Registration No. 10032500

BOUNDARY SURVEY
502.493 ACRE TRACT

LOCATED IN THE WILLIAM W. BOREN SURVEY, ABSTRACT 1155 IN McLENNAN COUNTY, TEXAS AND THE WILLIAM W. BOREN SURVEY, ABSTRACT 54 IN LIMESTONE COUNTY, TEXAS, AND BEING ALL OF A CALLED 502.493 ACRE TRACT DESCRIBED IN A DEED TO THE CITY OF WACO, TEXAS, A MUNICIPAL CORPORATION RECORDED IN McLENNAN COUNTY CLERK'S DOCUMENT 2018027927 OF THE OFFICIAL PUBLIC RECORDS OF McLENNAN COUNTY, TEXAS

PLAT NUMBER	D1-0509
PROJECT NUMBER	1-03063
DRAWN BY/CHECKED BY	D88KRH
FIELD NOTE NO.	FN-13
DRAWING NAME	1-03063BOUNDARY SURVEY 2021 3.DWG
DRAFT DATE	07/11/2018
SHEET NUMBER	1 OF 1

Dana B. Spigner

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III
SITE DEVELOPMENT PLAN
ATTACHMENT 1
SITE LAYOUT PLANS**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407
Dallas/Fort Worth Office
1901 Central Drive, Suite 550
Bedford, Texas 76021
817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – December 2021
SCS Project No. 16216088.00

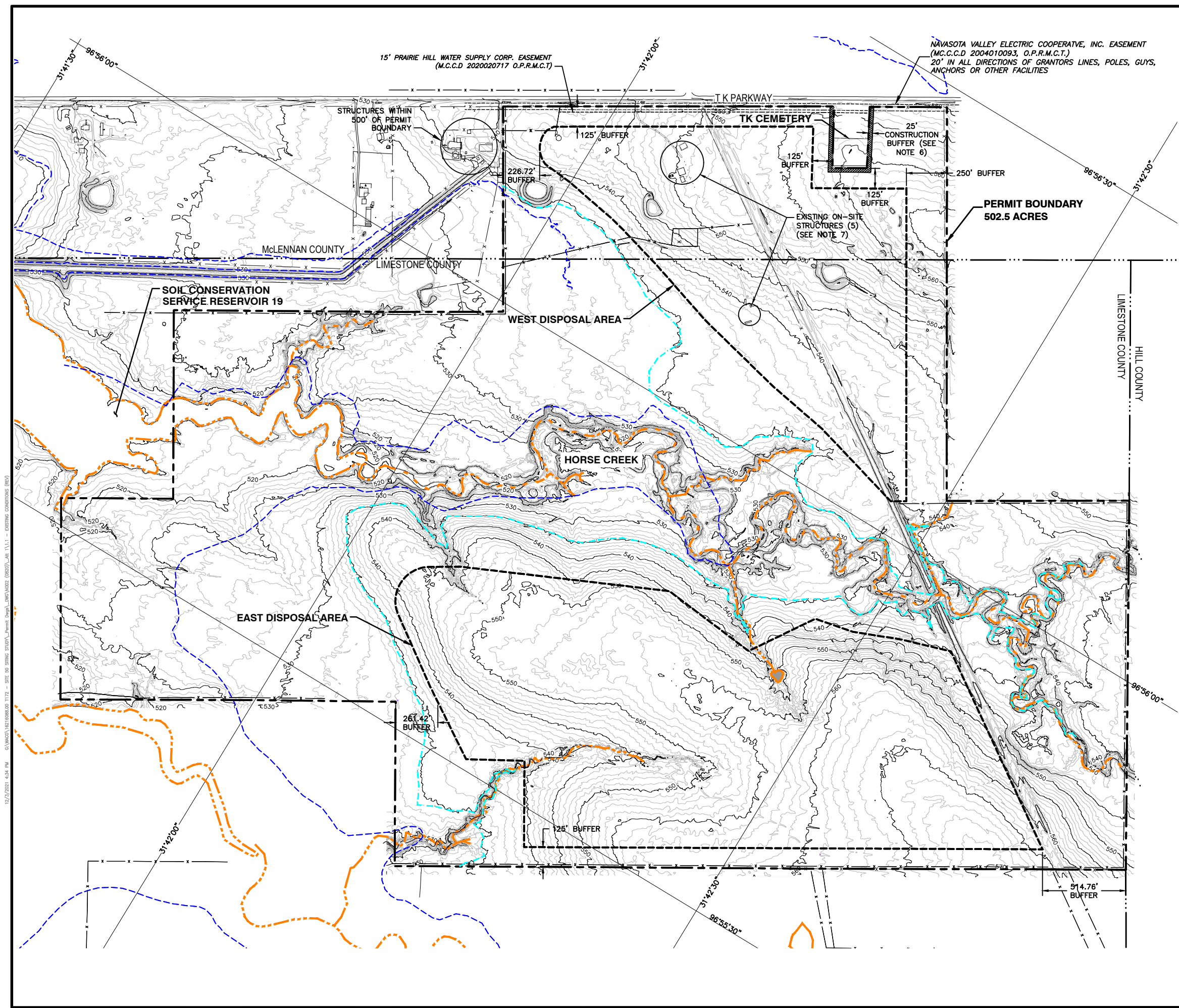
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- 1.2 Detailed Facility Layout and Sequence Plan
- 1.3 East Disposal Area Excavation Plan
- 1.4 West Disposal Area Excavation Plan
- 1.5 Entrance Facility Plan
- 1.6 Waste Flow Diagram



SCS Engineers
TBPE Reg. # F-3407



LEGEND

- PERMIT BOUNDARY
- LIMITS OF WASTE
- EXISTING TOPOGRAPHIC CONTOURS (SEE NOTE 1)
- COUNTY LINE
- EXISTING FENCE
- 100-YEAR FLOOD PLAIN (SEE NOTE 2)
- POTENTIAL JURISDICTIONAL WATER LOCATION (SEE NOTE 4)
- LATITUDE/LONGITUDE LINES
- SURVEYED FLOWAGE EASEMENT (534.5' NGVD 29 CONTOUR, REFER TO NOTE 5)

- NOTES:**
- THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS DEVELOPED BY DAS GEOSPATIAL FLOWN ON JULY 03, 2018.
 - 100-YEAR FLOOD PLAIN IS DESIGNATED AS ZONE A, BASED ON FIRM PANEL 48293C0125C, DATED 09/16/11 (LIMESTONE COUNTY), AND FIRM PANEL 48309C0250D, DATED 12/20/19 (MCLENNAN COUNTY).
 - CONSISTENT WITH TCEQ REGULATIONS A MINIMUM BUFFER ZONE OF 125' WILL BE MAINTAINED BETWEEN THE WASTE LIMIT BOUNDARY AND PERMIT BOUNDARY.
 - THE LOCATION OF THE POTENTIAL JURISDICTIONAL WATERS ARE REFERENCED FROM THE REPORT GENERAL JURISDICTION DETERMINATION PREPARED BY HORIZON ENVIRONMENTAL SERVICES, INC. (SEE APPENDIX I/IIA, AGENCY COORDINATION WITH THE COE).
 - A FLOWAGE EASEMENT EXISTS ON THE PROPERTY THAT IS UNDER THE JURISDICTION OF THE TECHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER (1) OF LEROY, TEXAS SUBJECT TO THE EASEMENT RECORDED IN VOLUME 498, PAGE 118, VOLUME 506, PAGE 181, VOLUME 507, PAGE 378, AND VOLUME 509, PAGE 417 OF THE DEED RECORDS OF LIMESTONE COUNTY, TEXAS. THIS DOCUMENT STATES THAT: "THIS EASEMENT INCLUDES THE RIGHT OF INGRESS AND EGRESS AT ANY TIME OVER AND UPON THE ABOVE DESCRIBED AND OF THE GRANTOR AND ANY OTHER LAND OF THE GRANTOR ADJOINING SAID LAND". SEE DRAWINGS 3.1A AND 6A.3A FOR EASEMENT ACCESS ROUTE LOCATIONS.
 - IN ACCORDANCE WITH "AN INTENSIVE CULTURAL RESOURCES SURVEY OF THE CITY OF WACO'S PROPOSED SITE 50 LANDFILL PROJECT," PREPARED BY HORIZON ENVIRONMENTAL SERVICES, INC., DATED NOVEMBER 2018 (SEE APPENDIX I/IIA), A 25-FOOT CONSTRUCTION BUFFER WILL BE MAINTAINED AROUND TK CEMETERY TO PROTECT ANY POTENTIAL UNMARKED GRAVES OUTSIDE THE PRESENT MODERN DAY CEMETERY BOUNDARIES AND FENCING.
 - THE EXISTING STRUCTURES WITHIN THE BOUNDARY OF WASTE DISPOSAL AREA (WDA) WILL BE ABANDONED AND DEMOLISHED PRIOR TO DEVELOPMENT OF THE RESPECTIVE SECTORS (I.E. SECTORS 10 AND 11) OF THE WDA WHERE THE EXISTING STRUCTURE IS LOCATED.



FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	BY	CHK
1	10/20/2020	REVISIONS INCLUDE: FLOODPLAIN, FLOWAGE EASEMENT, WATER SUPPLY EASEMENT, FIBER OPTIC EASEMENT, LIMITS OF WASTE, NOTE 2, AND RENUMBERED NOTES.	RRK	
2	12/20/2021	UPDATE NOTE 5 FOR FLOWAGE EASEMENT ACCESS	RRK	

DRAWING TITLE
EXISTING CONDITIONS PLAN

PROJECT TITLE
CITY OF WACO LANDFILL
TYPE I MSW - PERMIT APPLICATION

CITY OF WACO
SOLID WASTE SERVICES

CLIENT
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.
104689

DWN. BY: NR
CHK. BY: BJD
APP. BY: RRK

CADD FILE:
1:1 - EXISTING CONDITIONS (REV)

DATE:
04/2020

SCALE:
AS SHOWN

DRAWING NO.
1.1

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III
SITE DEVELOPMENT PLAN
ATTACHMENT 3
LANDFILL COMPLETION PLAN**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407

Dallas/Fort Worth Office
1901 Central Drive, Suite 550
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817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – December 2021
SCS Project No. 16216088.00

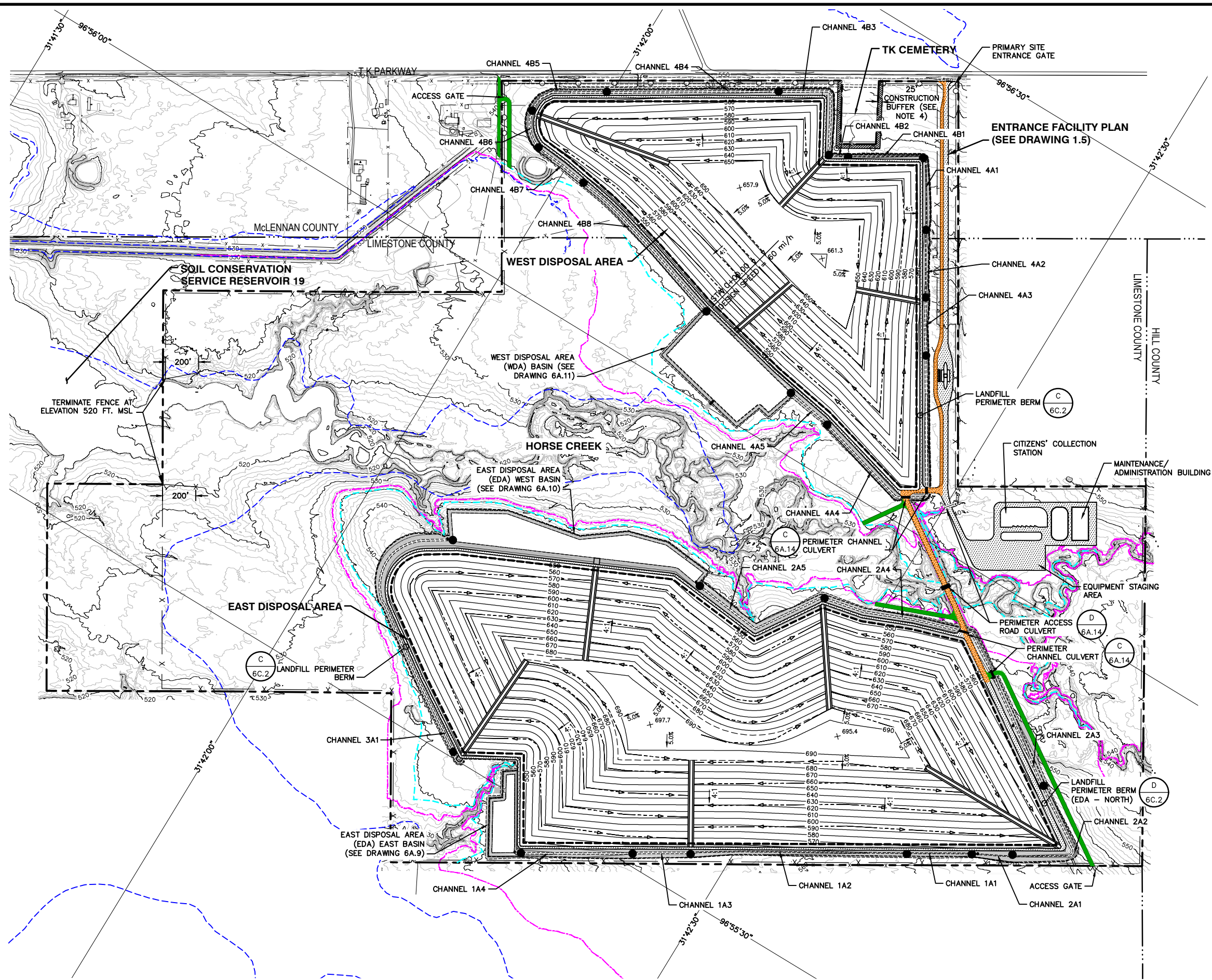
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TBPE Reg. # F-3407



LEGEND

	PERMIT BOUNDARY
	LIMITS OF WASTE
	COUNTY LINE
	EXISTING TOPOGRAPHIC CONTOURS (SEE NOTE 1)
	100-YEAR FLOOD PLAIN (SEE NOTE 2)
	100-YEAR STORM EVENT WATER SURFACE (SEE NOTE 5)
	FINAL COVER TOPOGRAPHIC CONTOURS (SEE NOTE 3)
	PROPOSED/EXISTING PERIMETER FENCE (CHAIN LINK OR BARBED WIRE)
	PROPOSED 8' PRIVACY FENCE
	ACCESS ROAD
	ACCESS ROAD/ FLOWAGE EASEMENT ACCESS ROUTE (SEE NOTE 6)
	FLOWAGE EASEMENT ACCESS ROUTE (SEE NOTE 6)
	DRAINAGE SWALES
	DOWNCHUTES
	CHANNEL SECTION
	SURVEYED FLOWAGE EASEMENT (534.5' NGVD 29 CONTOUR)

NOTES:

1. THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS DEVELOPED BY DAS GEOSPATIAL FLOWN ON JULY 03, 2018.
2. 100-YEAR FLOOD PLAIN IS DESIGNATED AS ZONE A, BASED ON FIRM PANEL 48293C0125C, DATED 09/16/11 (LIMESTONE COUNTY), AND FIRM PANEL 48309C0250D, DATED 12/20/19 (MCLENNAN COUNTY).
3. ELEVATIONS SHOWN ON THIS DRAWING WITHIN WASTE LIMITS ARE TOP OF FINAL COVER ELEVATIONS IN FEET MEAN SEA LEVEL (FT MSL).
4. IN ACCORDANCE WITH "AN INTENSIVE CULTURAL RESOURCES SURVEY OF THE CITY OF WACO'S PROPOSED SITE 50 LANDFILL PROJECT," PREPARED BY HORIZON ENVIRONMENTAL SERVICES, INC., DATED NOVEMBER 2018 (SEE APPENDIX I/IIA), A 25-FOOT CONSTRUCTION BUFFER WILL BE MAINTAINED AROUND TK CEMETERY TO PROTECT ANY POTENTIAL UNMARKED GRAVES OUTSIDE THE PRESENT MODERN DAY CEMETERY BOUNDARIES AND FENCING.
5. 100-YEAR STORM EVENT WATER SURFACE WAS ESTIMATED USING HEC-HMS AND HEC-RAS MODELING AS DISCUSSED IN ATTACHMENT 6B OF THIS PERMIT APPLICATION.
6. FLOWAGE EASEMENT ACCESS WILL BE PROVIDED TO THE TECHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER (1) BY THE ACCESS ROUTES DELINEATED. WITH THE EXCEPTION OF DEFINED LANDFILL ACCESS ROADS, THESE ACCESS ROUTES WILL BE CLEARED AND MAINTAINED CLEAR OF VEGETATION OR OTHER OBSTRUCTIONS FOR A MINIMUM 20-FOOT WIDTH. LANDFILL ACCESS ROADS WILL BE MAINTAINED CONSISTENT WITH PART IV, SECTION 4.12.



FOR PERMITTING PURPOSES ONLY

**CITY OF WACO LANDFILL
TCEQ PERMIT NO. MSW-2400
McLENNAN AND LIMESTONE COUNTIES, TEXAS**

**PART III – SITE DEVELOPMENT PLAN
ATTACHMENT 6A
SURFACE WATER DRAINAGE PLAN**

Prepared for:

CITY OF WACO



Solid Waste Services
501 Schroeder Drive
Waco, TX 76710

Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407

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1901 Central Drive, Suite 550
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817/571-2288



Revision 0 – April 2020
Revision 1 – October 2020
Revision 2 – June 2021
Revision 3 – December 2021
SCS Project No. 16216088.00

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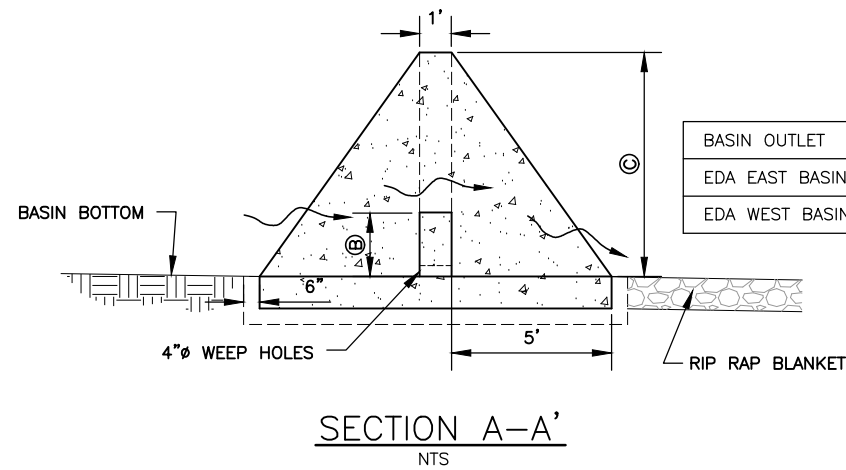
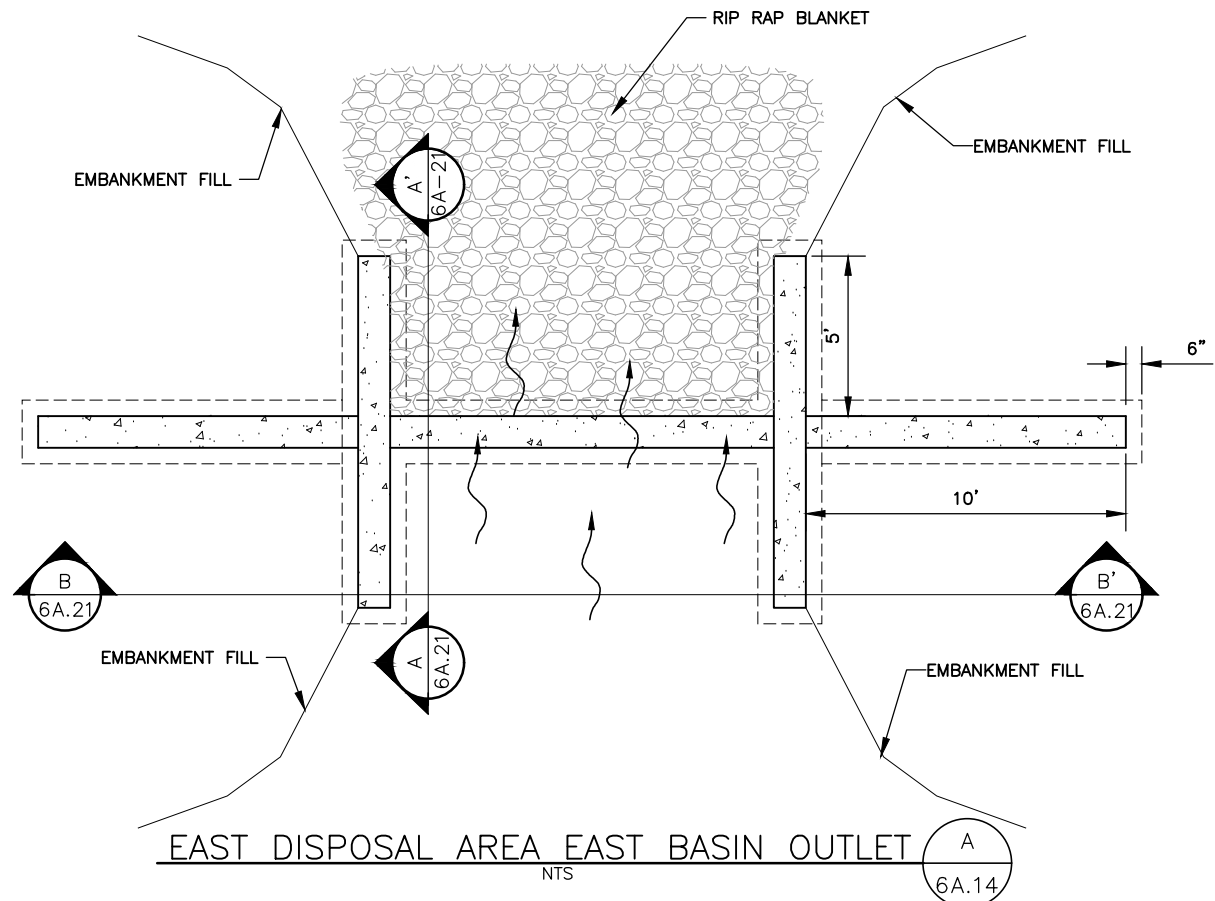


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DRAWINGS

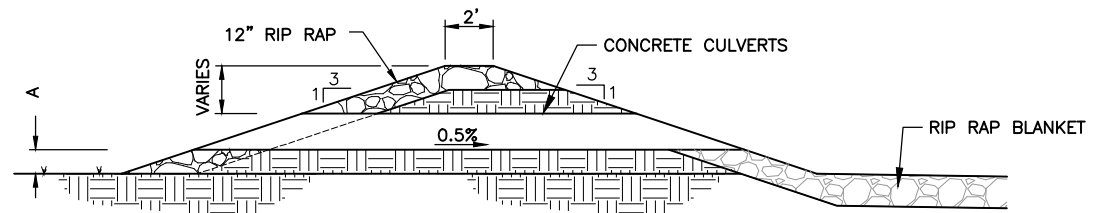
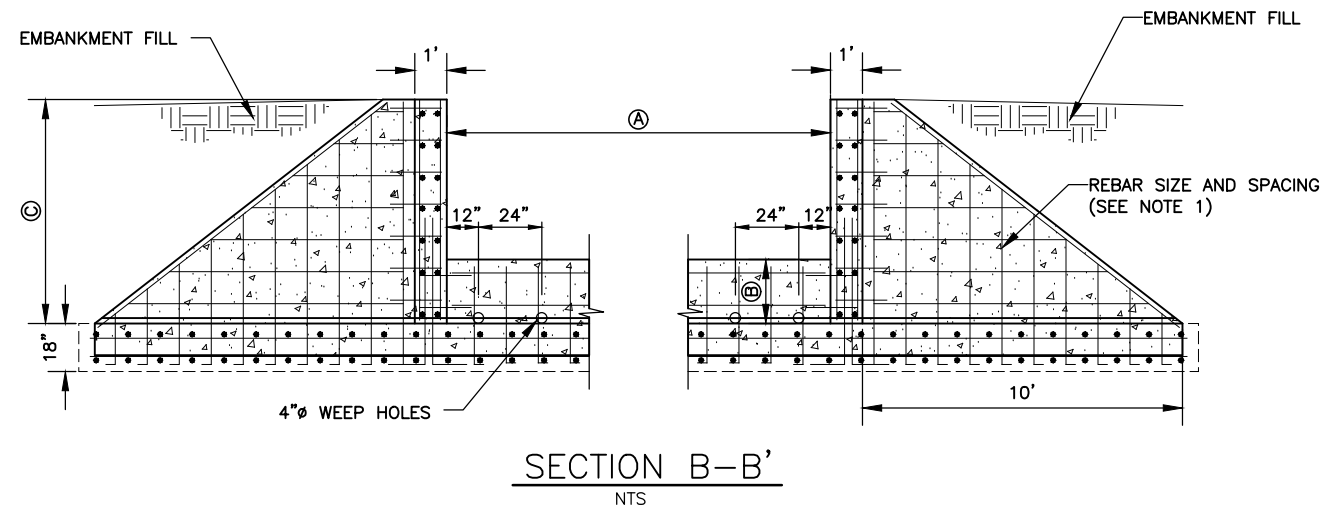
6A.1A through 6A.16

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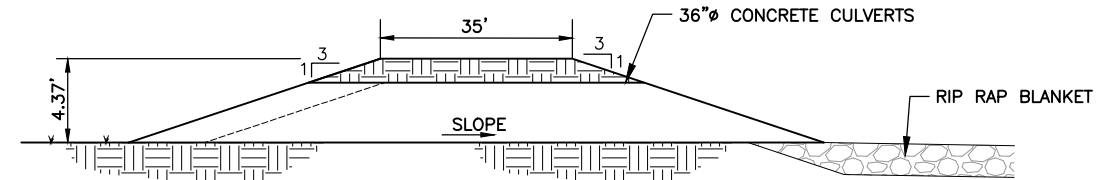
WEIR OUTLET CONFIGURATION
DIMENSIONS (FT)

BASIN OUTLET	BOTTOM ELEVATION	A	B	C	NO. WEEP HOLES
EDA EAST BASIN	534	10	2.5	6.0	5
EDA WEST BASIN	530	7	4.5	7.0	3



TYPICAL BASIN OUTLET CULVERT
NTS

BASIN OUTLET	POND BOTTOM ELEVATION (FT)	CULVERT SIZE (INCH)	NO. CULVERTS	LENGTH (FT)	A (FT)
WDA BASIN	531	21	2	25	3.5

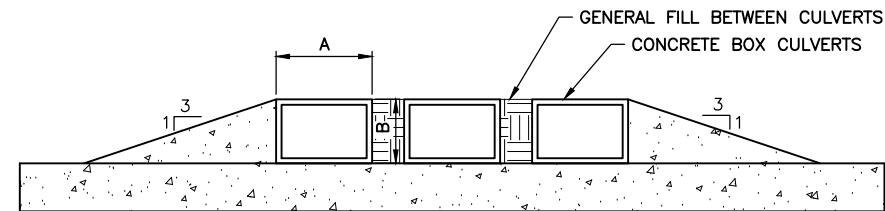


PERIMETER CHANNEL CULVERT
NTS

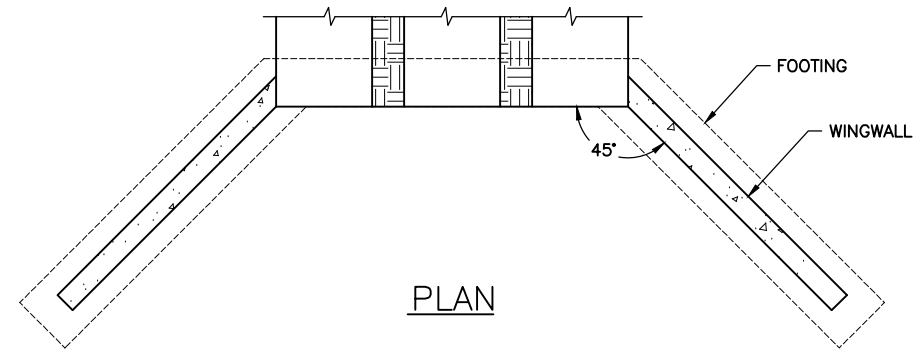
PERIMETER CHANNEL CULVERT	CHANNEL BOTTOM ELEVATION (FT)	SLOPE (%)	NO. CULVERTS	LENGTH (FT)
EDA PERIMETER CHANNEL CULVERT 1*	537.50	0.25	2	70
EDA PERIMETER CHANNEL CULVERT 2	537.26	1.84	2	70
WDA PERIMETER CHANNEL CULVERT 1	536.67	0.60	2	70
WDA PERIMETER CHANNEL CULVERT 2	535.19	0.56	2	70

NOTE:

* PERIMETER CHANNEL CULVERT 1 FOR FLOWAGE EASEMENT ACCESS IS SHOWN ON DRAWING 3.1A AND 6A.3A.



PROFILE



PERIMETER ACCESS ROAD CULVERT
NTS

BOX CULVERT	SLOPE (%)	NO. OF BOXES	LENGTH (FT)	A (FT)	B (FT)
PERIMETER ACCESS ROAD CULVERT 1	1.00	3	38	4	3
PERIMETER ACCESS ROAD CULVERT 2	0.50	4	32	8	8

REV	DATE	DESCRIPTION	BY	
			UPDATE	NOTE 5 FOR FLOWAGE EASEMENT ACCESS
DRAWING TITLE			BASIN OUTLET DETAILS	
PROJECT TITLE			CITY OF WACO LANDFILL TYPE I MSW - PERMIT APPLICATION	
CLIENT			CITY OF WACO SOLID WASTE SERVICES	
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: 6A-14(REV)	
DATE:			04/2020	
SCALE:			AS SHOWN	
DRAWING NO.			6A.14	
FOR PERMITTING PURPOSES ONLY				