WASTE MANAGEMENT

AUSTIN COMMUNITY
TRANSFER STATION
A WASTE MANAGEMENT COMPANY

9900 Giles Road
Austin, Texas 78754
(512) 272-6245
(512) 272-8960 Fax

September 26, 2019

Mr. Chance Goodin
Texas Commission on Environmental Quality (TCEQ)
Municipal Solid Waste Permits Section, Waste Permits Division
12100 Park 35 Circle
Austin, Texas 78753

Subject: Registration Application
Type V MSW Facility
Austin Community Transfer Station
Austin, Travis County, Texas

Dear Mr. Goodin:

Waste Management of Texas, Inc. (WMTX) hereby requests a registration for the above-referenced new facility, a proposed Type V municipal solid waste (MSW) facility (transfer station). Per 30 TAC §330.9(b)(4), this facility qualifies for a registration because it will be located within the permitted boundaries of an MSW Type I facility (namely, the Austin Community Recycling and Disposal Facility, TCEQ Permit No. MSW-249D). The purpose of the transfer station will be to provide an efficient means to transfer MSW generated in the area of Travis County and surrounding counties to a TCEQ-permitted landfill. This cover letter accompanies the following items:

- An TCEQ Core Data Form for the new regulated entity.
- A completed Regulatory Checklist (TCEQ Administrative and Technical Review Checklist for a Type V Facility Registration Application).
- Four sets of mailing labels of the adjacent landowners.
- A compact disk with a list in electronic form of the adjacent landowners.
- A copy of the receipt documenting E-payment of the TCEQ Application Fee.
- One original and three copies of the Registration Application containing the required Part I Application Form and Parts I through IV of the Permit Application as required by 30 TAC §330.57 and addressing the applicable Chapter 330 Rules.

Also note that we have checked and confirmed that WMTX has no delinquent TCEQ fees at this time.

If you have any questions regarding this matter, please do not hesitate to contact me at (512) 563-4495.

Sincerely,

Steve Jacobs
Director of Landfill Operations

Applicant:
Waste Management of Texas, Inc.

REGISTRATION APPLICATION

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY
REGISTRATION NO. MSW-_____ [to be assigned]
AUSTIN, TRAVIS COUNTY, TEXAS

VOLUME I OF I

Owner/Operator:
Waste Management of Texas, Inc.

Physical Site Address:
9900 Giles Road
Austin, Texas 78754
(512) 272-6245

Prepared by:

Geosyntec consultants

8217 Shoal Creek Blvd, Suite 200
Austin, Texas 78757
(512) 451-4003

Submitted September 2019

Applicant:
Waste Management of Texas, Inc.

REGISTRATION APPLICATION

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY
REGISTRATION NO. MSW-_____ [to be assigned]
AUSTIN, TRAVIS COUNTY, TEXAS

Owner/Operator:
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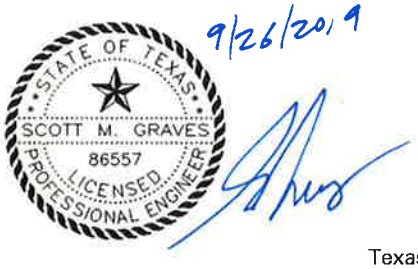
Physical Site Address:
9900 Giles Road
Austin, Texas 78754
(512) 272-6245

VOLUME I OF I



THE ABOVE SEAL APPLIES TO THIS BINDER TITLE PAGE ONLY, AND IS FOR REGISTRATION PURPOSES ONLY.

EACH INDIVIDUAL ENGINEERING REPORT OR PLAN AND EACH ENGINEERING DRAWING WITHIN THE APPLICATION IS SIGNED, SEALED, AND DATED BY THE RESPONSIBLE ENGINEER AS REQUIRED BY THE TEXAS ENGINEERING PRACTICE ACT.

Prepared by:

Geosyntec consultants
Texas Board of Professional Engineers Firm Registration No. F-1182
8217 Shoal Creek Blvd, Suite 200
Austin, Texas 78757
(512) 451-4003

September 2019

OVERALL TABLE OF CONTENTS

FOR REGISTRATION PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
REGISTRATION NO. F-1182

OVERALL TABLE OF CONTENTS (CONTINUED)

PART III – SITE DEVELOPMENT PLAN

PART IV – SITE OPERATING PLAN

FOR REGISTRATION PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
REGISTRATION NO. F-1182

WASTE MANAGEMENT

AUSTIN COMMUNITY TRANSFER STATION
A WASTE MANAGEMENT COMPANY

9900 Giles Road
Austin, Texas 78754
(512) 272-6245
(512) 272-8960 Fax

September 26, 2019

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12100 Park 35 Circle
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Sincerely,

Steve Jacobs
Director of Landfill Operations

TCEQ CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided.)*

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN **600127856**		RN **TBD**

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	00/25/2019

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*

11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:

12. Number of Employees	13. Independently Owned and Operated?
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☐ Yes ☐ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following:*

☐ Owner ☐ Operator ☐ Owner & Operator

☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	City		State		ZIP	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
( ) -		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Austin Community Transfer Station

23. Street Address of the Regulated Entity: *(No PO Boxes)*	9900 Giles Road							
	City	Austin	State	TX	ZIP	78754	ZIP + 4	
24. County	Travis							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	500-ft North of intersection of Giles Road and US Hwy 290 in Travis County, TX.

26. Nearest City	State	Nearest ZIP Code
Austin	TX	78754

27. Latitude (N) In Decimal:	30.334053		28. Longitude (W) In Decimal:	-97.623014	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	20	02.59	97	37	22.85

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
4953		562111	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Type V MSW Transfer Station

34. Mailing Address:	9900 Giles Road							
	City	Austin	State	TX	ZIP	78754	ZIP + 4	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 272-6245		(512) 272-8960

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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☒ Municipal Solid Waste 249D	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Scott Graves	41. Title:	Principal

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 451-4003		(512) 306-8042	sgraves@geosyntec.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.

Company:	Waste Management of Texas, Inc.	Job Title:	Director of Landfill Operationsr
Name*(In Print)* :	Steve Jacobs	Phone:	(512) 272-6245
Signature:		Date:	9/26/2019

MAILING LABELS

(PRE-PRINTED, AND ELECTRONIC FORMAT)

[Two (2) sets of pre-printed mailing labels & one (1) CD with electronic-formatted mailing labels are provided with the Original binder submitted to TCEQ]

GLOBAL WORDWIDE
INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

APPLIED MATERIALS INC
RUSSELL MAGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

YESCAS HUMBERTO
6802 SPRUCE GUM LN
AUSTIN, TX 78744-4946

ROBERTSON FAMILY
290 PROPERTY LLC
3506 BONNIE RD
AUSTIN, TX 78703-2604

BFI WASTE SYSTEMS OF
NORTH AMERICA
18500 N ALLIED WAY
PHEONIX, AZ 85054-6164

APPLIED MATERIALS INC
RUSSELL MANGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

BROUGHER PARTNERS LTD,
ETAL
1107 NUECES ST
SUITE 104
AUSTIN, TX 78701-2105

Wallace H Dalton
9505 JOHNNY MORRIS RD
AUSTIN, TX 78724-1527

BARR LANE LLC
803 CUTLASS
LAKEWAY, TX 78734-5338

WAGNER PETER &
ANNA MARGARETTA
RICCOBENE
9506 SPRINGDALE RD
AUSTIN, TX 78754-9639

CLINTON HAZEL L
9305 HAPPY TRAIL
AUSTIN, TX 78754

TRABEV REAL ESTATE LTD
1500 SCENIC DR APT 105
AUSTIN, TX 78703-2049

7-ELEVEN INC
P.O. BOX 711
DALLAS, TX 75221-0711

BFI WASTE SYSTEMS OF
NORTH AMERICA
18500 N ALLIED WAY
PHEONIX, AZ 85054-6164

GLOBAL WORDWIDE
INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

FIRST CHURCH OF GOD OF
AUSTIN INC
PO BOX 141005
AUSTIN, TX 78714-1005

CITY OF AUSTIN
REAL ESTATE DIVISION
PO BOX 1088
AUSTIN, TX 78767-1088

C L THOMAS HOLDINGS LLC
PO BOX 1876
VICTORIA, TX 77902-1876

TRAVIS RICHARD A
& BRENDA S
9502 SPRINGDALE RD
AUSTIN, TX 78754-9639

PREWITT RAYMOND A JR &
CHRISTOPHER ROBERT
CASTLEBERRY
9500 SPRINGDALE RD
AUSTIN, TX 78754-9639

CITY OF AUSTIN
P.O. BOX 1088
AUSTIN, TX 78761-1088

BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

SUAREZ HUMBERTO
11717 PILLION PL
MANOR, TX 68653-3767

CENTRAL TEXAS REGIONAL
MOBILTY AUTHORITY
515 CONGRESS AVE STE 2230
AUSTIN, TX 78701-3506

SOOTH LIMITED
PARTNERSHIP
3008 DAWN DR STE 107
GEORGETOWN, TX 78628-2821

APPLIED MATERIALS INC
RUSSELL MAGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

WASTE MANAGEMENT
OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

AMERICA
TELECOMMUNICATIONS
GROUP INC
6633 E HWY 290 STE 312
AUSTIN, TX 78723-1111

TJFA LP
PO BOX 17126
AUSTIN, TX 78760-7126

DJR INC
PO BOX 142683
AUSTIN , TX 78714-2683

GLOBAL WORLDWIDE
INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

G3 EXHIBITS LLC
304 BUCKEYE TR
AUSTIN, TX 78746-4422

WALLACE H DALTON
9505 JOHNNY MORRIS RD
AUSTIN, TX 78724-1527

ROYAL BLUE PROPERTY
MANAGEMENT LLC
1881 79TH ST CSWY APT 1801
NORTH BAY VILLAGE,
FL 33141-4275


Austin Community
Transfer Station
WM
WASTE MANAGEMENT
Waste Management
of Texas, Inc.
Geosyntec
consultants
8217 Shoal Creek Blvd, Suite 200
Austin, TX 78757 USA
Tel. 512.451.4003
Geosyntec Project No. GW7107
CD Created 9/27/2019
Electronic
Mailing Labels

COPY OF ELECTRONIC PAYMENT (E-PAY) RECEIPT – APPLICATION FEE

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number:	582EA000359216
Date:	09/26/2019 10:42 AM
Payment Method:	CC - Authorization 0000239157
Amount:	$150.00
ePay Actor:	Scott Graves
Actor Email:	sgraves@geosyntec.com
IP:	172.126.73.81

Payment Contact Information

Name:	Scott Graves
Company:	Geosyntec
Address:	8217 Shoal Creek Blvd, Austin, TX 78757
Phone:	512-451-4003

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
433463	MSW PERMIT/REGISTRATION/AMEND/MOD/TEMP AUTHORIZATIONS APPLICATION FEE		$100.00
433464	30 TAC 305.53B MWP NOTIFICATION FEE		$50.00
	Total fees for transaction:	**$150.00**	

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

REGULATORY CHECKLIST

(TCEQ Administrative and Technical Review Checklist for a Type V Facility Registration Application)

ID	App. Part	Checklist Item	Item Type	Citation	Complete?	Location	Applicant Comments	Application Area
1	General	Submit all four parts of the permit, permit amendment or registration application	Required	330.57(a) & (b)	Yes	Parts I through IV are included with the submittal	Provided	Format-Application
2	General	Submit TCEQ Part I Form (Form No. 0650)	Required	330.57(c)(1)	Yes	Part I Form	Provided	Forms
8	General	Part II of the application contains location and coordination information.	Informational	330.57(c)(2)			Provided	Format-Application
9	General	Part III of the application contains design information	Informational	330.57(c)(3)			Provided	Format-Application
10	General	Part IV of the application contains the site operating plan	Informational	330.57(c)(4)			Provided	Format-Application
11	General	The application should address all aspects of application and design requirements, even to show why not applicable (N/A)	Informational	330.57(d)			Addressed	Format-Application
12	General	Submit data of sufficient completeness, accuracy and clarity	Required	330.57(d)	Yes	Full application	Submitted data believed to be complete, accurate, and clear	Format-Application
13	General	Failure to provide complete information may be cause for ED to return application.	Informational	330.57(d)				Format-Application
14	General	Provide 4 Copies for Initial Submittal (1 original and 3 copies)	Required	330.57(e)	Yes	Full application	Required original and copies provided.	Format-Application
15	General	Provide 4 copies for NOD Responses including 1 copy with marked revisions (redline/strikeout)	Required	330.57(g)(6)	Yes	Not Applicable (N/A) for initial submittal	N/A for this initial application. Will comply during NOD response process.	Format-Application
16	General	Application must be prepared in accordance with Texas Occupations Code, Texas Engineering Practice Act, Chapter 1001 and Texas Geoscience Practice Act, Chapter 1002	Informational	330.57(f)			Addressed	Format-Application
17	General	Provide a PE signature, seal and date on the title page of each bound engineering report or individual engineering plan, and on each engineering drawing	Required	330.57(f)(1)	Yes	PE seal, signed, and dated where required	Provided	Format-Application
18	General	Provide PG sign, seal, & date for applicable items	Required	330.57(f)(2)	Yes	N/A	There are no items in this application necessary to be sealed by a PG	Format-Application
19	General	Applications that are not sealed are incomplete and shall be returned	Informational	330.57(f)(3)				Format-Application
20	General	Submit the application in three ring-binders	Required	330.57(g)(1)	Yes	Full application	Provided	Format-Application
21	General	Submit Title Page with Name, Application No., Site Operator Name, Operator Name (if applicable), Location, Date Prepared and Revision Date(s)	Required	330.57(g)(2)	Yes	Title Pages of Part I/II, III, and IV	Provided	Format-Application
22	General	Provide Table of Contents with PE seal	Required	330.57(g)(3)	Yes	Front of each volume	The front of each Volume (binder) has a master table of contents signed and sealed by a PE. Also, a PE seal is provided on table of contents of enigneering reports in accordance with the TEPA.	Format-Application
23	General	Use 8.5x11 inch or 11x17 paper (folded to 8.5x11 inch)	Required	330.57(g)(4)	Yes	Full application	Provided	Format-Application
24	General	Provide pages with date (original and revised) and sequential page numbers	Required	330.57(g)(5)	Yes	Full application	Provided	Format-Application
25	General	Provide legible drawings/maps	Required	330.57(h)(1)	Yes	Full application (drawings and maps)	Provided	Format-Maps/Drawings
26	General	Provide color coding on all figures and drawings that is legible and distinct after copying in black & white	Required	330.57(h)(2)	Yes	Full application (figures/drawings)	Provided	Format-Maps/Drawings
27	General	Provide a standard engineering scale on each figure or drawing	Required	330.57(h)(3)	Yes	Full application (figures/drawings)	Provided	Format-Maps/Drawings
28	General	Provide a dated title block on each figure or drawing	Required	330.57(h)(4)(A)	Yes	Full application (figures/drawings)	Provided	Format-Maps/Drawings
29	General	Provide a bar scale at least 1 inch on all figures and drawings	Required	330.57(h)(4)(B)	Yes	Full application (figures/drawings)	Provided	Format-Maps/Drawings
30	General	Provide a revision block on all figures and drawings	Required	330.57(h)(4)(C)	Yes	Full application (figures/drawings)	Provided	Format-Maps/Drawings
31	General	Provide a PE or PG seal ,if required, on all figures and drawings	Required	330.57(h)(4)(D)	Yes	Full application (figures/drawings)	Provided where PE seal required	Format-Maps/Drawings
32	General	Include drawing number and a page number on each drawing and figure	Required	330.57(h)(4)(E)	Yes	Full application (figures/drawings)	Each figure/drawing has a unique number which serves as the page number.	Format-Maps/Drawings
33	General	Include a north arrow on each map or plan drawing	Required	330.57(h)(5)(A)	Yes	Full application (figures/drawings)	Applicable drawings showing plan views of the site have a north arrow.	Format-Maps/Drawings
34	General	Include a reference to base map & date of most current base map used, if the map is based upon another map	Required	330.57(h)(5)(B)	Yes	Full application (figures/drawings)	Base map source/date is referenced on drawings that use a base map.	Format-Maps/Drawings
35	General	Include a legend on each map or plan drawing	Required	330.57(h)(5)(C)	Yes	Full application (figures/drawings)	Legends are provided on applicable drawings.	Format-Maps/Drawings
36	General	Provide match lines and section lines that reference the drawing where the match or section is shown.	Required	330.57(h)(6)	Yes	Full application (figures/drawings)	Section bubble-references (cross references) and/or key maps are provided on cross-section view drawings.	Format-Maps/Drawings

37	General	Indicate that the registration is for an MSW transfer station facility that is used in the transfer of MSW to a solid waste processing or disposal facility from any of the following: a municipality with a population of less than 50,000; a county with a population of less than 85,000; a facility used in the transfer of MSW that transfers or will transfer 125 tons per day or less or a transfer station located within the permitted boundaries of an MSW Type I or Type IV facility	Required	330.9(b)(1) - (4)	Yes	Part I/II Supplemental Technical Report, Section 3.6, Page I/II-11	This transfer statoin will be within the permitted boundaries of an MSW Type I facility	Application Eligibility
38	General	Provide a demonstration that the facility will recover 10% or more by weight or weight equivalent of the total incoming waste stream for reuse or recycling, ensure that the incoming waste has already been reduced by at least 10% through a source-separation recycling program; or, also operate one or more source-separation recycling programs in the county where the transfer station is located and those source-separation recycling programs manage a total weight or weight equivalent of recyclable materials equal to 10% or more by weight or weight equivalent of the incoming waste stream to all transfer stations to which credit is being applied	Required if Requested	330.9(f)(1)	Yes	Not Applicable	The facility does not propose a materials recovery operation, nor does it proposed process grease trap waste, grit trap waste, or septage	Application Eligibility
39	General	Provide a demonstration that the facility will transfer the remaining nonrecyclable waste to a landfill not more than 50 miles from the facility.	Required if Requested	330.9(f)(2)	Yes	Not Applicable	The facility does not propose a materials recovery operation, nor does it propose process grease trap waste, grit trap waste, or septage	Application Eligibility
45	General	Acknowledge that the construction and operation of the waste management facility shall comply with Subchapter U of 30 TAC Chapter 330 (relating to Standard Air Permits for Municipal Solid Waste Landfill Facilities and Transfer Stations) or other approved air authorizations. Owners or operators of these types of facilities should consult with the Air Permits Division on or before the date that the municipal solid waste application is filed with the executive director	Acknowledgement	330.55(a)	Yes	Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16		Other Authorizations
46	General	Acknowledge that all liquids resulting from the operation of solid waste facilities shall be disposed of in a manner that will not cause surface water or groundwater pollution. Facilities shall provide for the treatment of wastewaters resulting from waste management activities and from cleaning and washing. Owners or operators shall ensure that storm water and wastewater management is in compliance with the regulations of the commission	Acknowledgement	330.55(a)	Yes	Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16		Other Authorizations
49	General	It is the responsibility of an owner or operator to possess or acquire a sufficient interest in or right to the use of the surface estate of the property for which a permit is issued, including the access route. The granting of a permit does neither convey any property rights or interest in either real or personal property; nor does it authorize any injury to private property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of federal, state, or local laws or regulations outside the scope of the authority under which a permit is issued	Informational	330.67(a)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16		General Information
51	General	The facility owner or operator shall retain the right of entry to the facility until completion of closure activities and voluntary revocation of the permit/registration for inspection and maintenance of the facility	Informational	330.67(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16		General Information

52	General	It is the responsibility of an owner or operator to obtain any permits or approvals that may be required by local agencies such as for building construction, discharge of uncontaminated waters into ditches under control of a drainage district, discharge of effluent into a local sanitary sewer system, etc.	Informational	330.67(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16		General Information
54	General	The owner or operator shall provide notice of the opportunity to request a public meeting and post notice signs for all registration applications not later than 45 days of the executive director's receipt of the application in accordance with the procedures contained in 30 TAC §39.501(c)	Informational	330.69(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.69 for acknowledgement purposes but does not list specifics	General Information
55	General	The owner or operator and the commission shall hold a public meeting in the local area, prior to facility authorization, if a public meeting is required based on the criteria contained in 30 TAC §55.154(c) or by Texas Health and Safety Code, §361.111(c)	Informational	330.69(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.69 for acknowledgement purposes but does not list specifics	General Information
56	General	Notice of a public meeting shall be provided as specified in §39.501(e)(3) and (4) of this title	Informational	330.69(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.69 for acknowledgement purposes but does not list specifics	General Information
57	General	At the owner's or operator's expense, a sign or signs must be posted at the site of the proposed facility declaring that the application has been filed and stating the manner in which the commission and owner or operator may be contacted for further information. Such signs must be provided by the owner or operator and must substantially meet the requirements of 30 TAC §330.69(b)(1) - (3)	Informational	330.69(b)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.69 for acknowledgement purposes but does not list specifics	General Information
58	General	If at any time during the life of the facility the owner or operator becomes aware of any condition in the permit or registration that necessitates a change to accommodate new technology or improved methods or that makes it impractical to keep the facility in compliance, the owner or operator shall submit to the executive director requested changes to the permit or registration in accordance with 30 TAC §305.62 or §305.70 and must be approved prior to their implementation	Informational	330.73(a)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.73 for acknowledgement purposes but does not list specifics	General Information
60	General	The owner or operator shall obtain and submit certification by a Texas-licensed professional engineer that the facility has been constructed as designed in accordance with the issued registration or permit and in general compliance with the regulations prior to initial operation. The owner or operator shall maintain that certification on site for inspection	Informational	330.73(d)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.73 for acknowledgement purposes but does not list specifics	General Information
61	General	After all initial construction activity has been completed and prior to accepting any solid waste, the owner or operator shall contact the executive director and region office in writing and request a pre-opening inspection. A pre-opening inspection shall be conducted by the executive director within 14 days of notification by the owner or operator that all construction activities have been completed, accompanied by representatives of the owner or operator and the engineer	Informational	330.73(e)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.73 for acknowledgement purposes but does not list specifics	General Information
62	General	The MSW facility shall not accept solid waste until the executive director has confirmed in writing that all applicable submissions required by the permit or registration and this chapter have been received and found to be acceptable, and that construction is in compliance with the permit or registration and the approved site development plan. If the executive director has not provided a written or verbal response within 14 days of completion of the pre-opening inspection, the facility shall be considered approved for acceptance of waste	Informational	330.73(f)		Part I/II Supplemental Technical Report, Section 5.5, Page I/II-16	Page I/II-16 references 330.73 for acknowledgement purposes but does not list specifics	General Information

63	General	Identify if the Regulated Entity or Customer has any delinquent fees	Required	330.59(h), 330.671, 330.675	Yes	Application Cover Letter	Applicant has checked and confirmed no delinquent fees	Delinquent Fees
64	Part I	Provide a copy of the application, including all revisions and supplements on a publicly accessible Web site	Required in Part I Form	330.57(i)(1)		Part I Form, Item 5, Page 1		Part I Form
65	Part I	Provide the commission with the Web address link for the application materials	Required in Part I Form	330.57(i)(1)		Part I Form, Item 5, Page 1	URL provided	Part I Form
66	Part I	Signature Page must have signature and notarization	Required in Part I Form	330.59(a)(1)		Part I Form, Page 10		Part I Form
67	Part I	Applicant's name, mailing address & phone no.	Required in Part I Form	330.59(a)(1)		Part I Form, Item 17, Page 5		Part I Form
68	Part I	Description of the nature of the business	Required in Part I Form	330.59(a)(1)		Part I Form, Item 16, Page 4 (also Part I/II Report, Section 1.1, Page I/II-1)		Part I Form
71	Part I	Activities that require a permit (conducted at the facility)	Required in Part I Form	330.59(a)(1)		Part I Form, Items 13-15, Page 4	Existing permits/authorizations also noted on Part I Form Item 11	Part I Form
72	Part I	Location description, facility name & mailing address	Required in Part I Form	330.59(b)(1); 305.45(a)(1)		Part I Form, Item 12, Page 3 & 4		Part I Form
73	Part I	Access routes	Required in Part I Form	330.59(b)(2)		Part I Form, Item 12, Page 3 & 4		Part I Form
74	Part I	Lat. & Long. of the facility	Required in Part I Form	330.59(b)(3)		Part I Form, Item 12, Page 3		Part I Form
75	Part I	Lat. & Long. depicted	Required in Part I Form	330.59(c)(1)(A)		Part I/II, Appendix I/IIA Drawings	The Lat and Long grid locations are depicted several of the Maps in Part I of the Application - see Appendix I/IIA.	Part I Form
76	Part I	All maps should show the facility location	Required in Part I Form	305.45(a)(6)		Part I/II, Appendix I/IIA (see maps therein)		Part I Form
78	Part I	All maps should show other structures or locations regarding the regulated facility and associated activities	Required in Part I Form	305.45(a)(6)		Part I/II, Appendix I/IIA (see maps therein)		Part I Form
79	Part I	At least one map with a scale not less than 1 inch = 1 mile	Required in Part I Form	305.45(a)(6)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
80	Part I	Permit/Registration boundary and 1 mile beyond to show the following:	Required in Part I Form	330.59(c)(1)(B)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
81	Part I	Wells, springs, surface water bodies	Required in Part I Form	305.45(a)(6)(A)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
82	Part I	Character of adjacent land including public roads, towns, development as residential, commercial, agricultural, etc.	Required in Part I Form	305.45(a)(6)(B)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
83	Part I	Location of any waste disposal activities conducted on the tract but not included in the application	Required in Part I Form	305.45(a)(6)(C)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
84	Part I	General location map, TXDOT, scale of ½ inch = 1 mile and most current map used	Required in Part I Form	330.59(c)(2)		Part I/II, Appendix I/IIA, Drawing __		Part I Form
85	Part I	Land Ownership Map, within ¼ mile & mineral interest ownership	Required in Part I Form	330.59(c)(3)(A)		Part I/II, Appendix I/IIB		Part I Form
86	Part I	Land Ownership List both in hardcopy and electronic form (alternatively pre-printed mailing labels)	Required in Part I Form	330.59(c)(3)(B)		Part I/II, Appendix I/IIB		Part I Form
87	Part I	Legal description of property or other documentation of ownership	Required in Part I Form	330.59(d)(1)(A)		Part I/II, Appendix I/IIC		Part I Form
88	Part I	If Platted; plat record with county, book, page number and acreage information	Required in Part I Form	330.59(d)(1)(B)		Part I/II, Appendix I/IIC		Part I Form
89	Part I	Signed, sealed and dated surveyed metes and bounds description of the facility	Required in Part I Form	330.59(d)(1)(C)		Part I/II, Appendix I/IIC		Part I Form
90	Part I	Signed & sealed metes & bounds drawing	Required in Part I Form	330.59(d)(1)(D)		Part I/II, Appendix I/IIC		Part I Form
92	Part I	Acknowledge that State may hold owner responsible	Required in Part I Form	330.59(d)(2)(A)		Part I/II, Appendix I/IID	Signed property owner affidavit provided in location noted	Part I Form
94	Part I	Acknowledge that the owner & State shall have access during life of the facility and during closure	Required in Part I Form	330.59(d)(2)(C)		Part I/II, Appendix I/IID	Signed property owner affidavit provided in location noted	Part I Form
95	Part I	Acknowledge that the owner & State shall have access during the post-closure care period	Required in Part I Form	330.59(d)(2)(C)		Part I/II, Appendix I/IID	Signed property owner affidavit provided in location noted	Part I Form
96	Part I	Verified legal status of applicant and list of persons with 20% or more ownership in the facility	Required in Part I Form	330.59(e)		Part I/II, Appendix I/IID		Part I Form
97	Part I	Ownership status as federal, state, private, public, or other	Required in Part I Form	305.45(a)(2)		Part I Form, Item 19, Page 6 and 7		Part I Form
98	Part I	List of all Texas solid waste sites that the owner or operator has owned or operated within the last ten years. The site name, site type, permit or registration number, county, and dates of operation shall also be submitted.	Required in Part I Form	330.59(f)(1)		Part I/II, Appendix I/IIE	Provided as part of the Evidence of Competency	Part I Form
99	Part I	List of all solid waste sites in all states, territories, or countries in which the owner or operator has a direct financial interest. The type of site shall be identified by location, operating dates, name, and address of the regulatory agency, and the name under which the site was operated.	Required in Part I Form	330.59(f)(2)		Part I/II, Appendix I/IIE	None outside of Texas, as stated in the Evidence of Competency	Part I Form

101	Part I	Names of principals & supervisors owner or operators organization together with previous affiliations with other organizations involved with solid waste activities	Required in Part I Form	330.59(f)(4)		Part I/II, Appendix I/IIE	Provided as part of the Evidence of Competency	Part I Form
102	Part I	Landfilling, earthmoving exp. or license under Chapter 30. Include number and size of equipment	Required in Part I Form	330.59(f)(5)		N/A	This rule does not apply to transfer stations	Part I Form
103	Part I	Signatory meets 305.44, documentation of delegated signatory authority	Required in Part I Form	330.59(g)		Part I/II, Appendix I/IIF	Appointment letter provided in Appendix I/IIF with signature authority delegated	Part I Form
104	Part I	Corporations – signed by a corporate officer	Required in Part I Form			Part I Form, Page 10 [authority delegated in Part I/II, Appendix I/IIF]	Appointment letter provided in Appendix I/IIF with signature authority delegated	Part I Form
105	Part I	Partnership or proprietorship –signed by a general partner or proprietor	Required in Part I Form			N/A		Part I Form
106	Part I	Municipality, public agency –signed by an executive officer or elected official	Required in Part I Form			N/A		Part I Form
107	Part I	Signatory certification statement	Required in Part I Form			Part I Form, Page 10		Part I Form
108	Part I	Hazardous Waste Management	Required in Part I Form	305.45(a)(7)(A)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
109	Part I	Underground Injection Control	Required in Part I Form	305.45(a)(7)(B)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
110	Part I	NPDES	Required in Part I Form	305.45(a)(7)(C)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
111	Part I	Prevention of Significant Deterioration	Required in Part I Form	305.45(a)(7)(D)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
112	Part I	Nonattainment Program	Required in Part I Form	305.45(a)(7)(E)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
113	Part I	NESHAPS	Required in Part I Form	305.45(a)(7)(F)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
114	Part I	Ocean dumping permit	Required in Part I Form	305.45(a)(7)(G)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
115	Part I	Dredge & fill permit	Required in Part I Form	305.45(a)(7)(H)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
116	Part I	Licenses under the TRCA	Required in Part I Form	305.45(a)(7)(I)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
117	Part I	Other environmental permits	Required in Part I Form	305.45(a)(7)(K)			Addressed on Page 3 of the Part I Form, and in the Part I/II Report, Section 5, Page I-15.	Part I Form
118	Part I	Permit Application Fee is $150.00	Required in Part I Form	330.59(h)(1)		$150 fee paid via E-Pay; Trace Number on Part I Form, Item 4, Page 1	Copy of receipt also provided with cover letter	Part I Form
119	Part I	A copy of the payment receipt to the MSW Permits Section, if paid by check.	Required in Part I Form	330.59(h)(1)		Not paid by check	Paid via e-pay. Copy of receipt provided with cover letter	Part I Form
120	Part I	Prepared by PE, PG, or qualified person	Required in Part I Form	330.57(f)		See comment	This Rule citation is for the supplementary technical report. This report - the Part I/II Report, was prepared, signed, and sealed by a PE.	Part I Form
121	Part I	Description of facility & systems	Required in Part I Form	305.45(a)(8)(A)		Part I Form and Part I/II Report	Provided throughout the Part I/II Report.	Part I Form
122	Part I	Volume, average & max rate of disposal for each place of disposal	Required in Part I Form	305.45(a)(8)(B)(i)		Part I/II Report, Section 3, Page I/II-10		Part I Form
123	Part I	Physical, chemical, thermal, organic, bacteriological, radiological properties of waste	Required in Part I Form	305.45(a)(8)(B)(ii)		See comment	See waste acceptance plan in Part I/II report, Section 3	Part I Form
124	Part I	Other reasonable information	Required in Part I Form	305.45(a)(8)(C)		Will provide as requested		Part I Form
125	Part II	Provide the sources and characteristics of all waste to be accepted.	Required	330.61(b)(1)	Yes	Part I/II Report, Section 3, Page I/II-7		Waste Acceptance Plan
126	Part II	Specify parametric limitations of each type of waste to be managed by the facility	Required	330.61(b)(1)	Yes	N/A	There are no specific parametric limitations	Waste Acceptance Plan
127	Part II	Provide a brief description of the general sources and generation areas contributing wastes to the facility. This description shall include an estimate of the population or population equivalent served by the facility	Required	330.61(b)(1)(A)	Yes	Part I/II Report, Section 3, Page I/II-11		Waste Acceptance Plan
129	Part II	Provide the maximum amount of solid waste to be received daily and annually projected for five years. Provide the maximum amount of solid waste to be stored and the maximum and average lengths of time that solid waste is to remain at the facility. Provide the intended destination of the solid waste received at this facility	Required	330.61(b)(1)(B)	Yes	Part I/II Report, Section 3, Page I/II-10		Waste Acceptance Plan
130	Part II	Provide an estimate of the maximum annual waste acceptance rate projected for 5 years	Required	330.61(b)(1)(C)	Yes	Part I/II Report, Section 3, Page I/II-10		Waste Acceptance Plan
131		Provide information to establish why a facility qualifies for a registration in accordance with 30 TAC §330.9	Required	330.61(b)(2)	Yes	Part I/II Report, Section 3.6, Page I/II-11		
132	Part II	Provide any site specific conditions that require special design considerations & possible mitigation of conditions identified under sections (h) – (o)	Required	330.61(a)	Yes	N/A	There are no specific site conditions that require special design consideration/mitigation	Facility Impact

133	Part II	Provide information regarding the likely impacts of the facility on cities, communities, groups of property owners, or individuals.	Required	330.61(h)	Yes	Part I/II Report, Section 6, starting on Page I/II-17		Facility Impact
134	Part II	Provide information on the compatibility of the facility with surrounding land use, zoning in the vicinity, community growth patterns, and other factors associated with the public interest.	Required	330.61(h)	Yes	Part I/II Report, Section 6, starting on Page I/II-17		Facility Impact
135	Part II	Provide information on the character of surrounding land use within one mile	Required	330.61(h)(2)	Yes	Part I/II Report, Section 6.1, Page I/II-17 to 19		Existing Conditions
136	Part II	Provide information about the growth trends within five miles & directions of development	Required	330.61(h)(3)	Yes	Part I/II Report, Section 6.1.3, Page I/II-20		Existing Conditions
137	Part II	Indicate the proximity to residences & items listed in 330.61(c)(4) & (12), ~ no. of residences & commercial establishments including direct & distance to nearest, population density, all within one mile.	Required	330.61(h)(4)	Yes	Part I/II Report, Section 6.1.4, Page I/II-20 and 21		Existing Conditions
138	Part II	Indicate all wells and the well density within 500 ft.	Required	330.61(h)(5)	Yes	Part I/II Report, Section 6.2, Page I/II-22		Existing Conditions
139	Part II	Provide any other information requested by the ED	Required	330.61(h)(6)	Yes	N/A	No other information has been requested at this time.	Existing Conditions
140	Part II	Provide data on availability & adequacy of access roads	Required	330.61(i)(1)	Yes	Part I/II Report, Section 7, Pages I/II-25 to 27	Supporting data is in Appendix I/IIH, as referenced on the page number noted	Transportation
141	Part II	Provide the existing & expected traffic volumes on access roads within one mile of the facility during the expected life of the facility	Required	330.61(i)(2)	Yes	Part I/II Report, Section 7, Page I/II-27 (detailed data in Appendix I/IIH)		Transportation
148	Part II	Provide notice to the airport & the FAA for MSW units within 6 miles of a small airport or within 5 miles of a large commercial airport.	Required	330.545(b)	Yes	Addressed in Part I/II Report, Section 7.2, Page I/II-28	The notification requirement of the cited rule is only for landfills and thus N/A	Transportation
152	Part II	Identify and provide data on seismic impact zones. If located in impact zone see location restrictions in Part III	Required	330.61(j)(3)	Yes	Part I/II Report, Section 8.4, Page I/II-30		Geology
153	Part II	Identify and provide data on unstable areas. If unstable areas exist see location restrictions in Part III, and describe factors for determining unstable areas in the Geology Report	Required	330.61(j)(4)	Yes	Part I/II Report, Section 8.5, Page I/II-31		Geology
154	Part II	Provide data on site specific groundwater conditions	Required	330.61(k)(1)	Yes	Part I/II Report, Section 9.1, Page I/II-32		Groundwater and Surface Water
155	Part II	Provide data on surface water at or near the site	Required	330.61(k)(2)	Yes	Part I/II Report, Section 9.2, Page I/II-32		Groundwater and Surface Water
156	Part II	Provide information on how facility will comply with applicable Texas Pollutant Discharge Elimination System (TPDES) storm water permitting requirements and the Clean Water Act, §402, as amended.. This may include the information requires by 30 TAC 330.61(k)(3)(A) & (B)	Required	330.61(k)(3)	Yes	Part I/II Report, Section 9.3, Page I/II-33		Groundwater and Surface Water
157	Part II	As applicable, provide a certification statement indicating the owner/operator will obtain the appropriate TPDES permit coverage when required	Required	330.61(k)(3)(A)	Yes	Part I/II Report, Section 9.3, Page I/II-33	References current permit and that facility will comply with TPDES programs/requirements	Groundwater and Surface Water
159	Part II	Provide the location of any water wells.	Required	330.61(l)(1)	Yes	Part I/II Report, Section 9.3, Page I/II-33	None on-site. Page I/II-22 also references locations, with map given in Appendix I/IIA	Abandoned Oil and Water Wells
160	Part II	All water supply wells must be outside monitoring system or approved in the permit	Informational	330.61(l)(1)				Abandoned Oil and Water Wells
162	Part II	Provide the location of oil & gas wells production wells may remain if identified & don't disrupt operations	Required	330.61(l)(2)	Yes	Part I/II Report, Section 10.2, Page I/II-34	None on-site or within 500-ft. Page I/II-22 also references locations, with map given in Appendix I/IIA	Abandoned Oil and Water Wells
163	Part II	Production wells may remain if identified & they do not disrupt facility operations	Informational	330.61(l)(2)				Abandoned Oil and Water Wells
164	Part II	Indicate if the facility is within the 100yr floodplain. If facility within a floodplain see location restrictions in 30 TAC Chapter 330 Subchapter M	Required	330.61(m)(1)	Yes	Part I/II Report, Section 11, Page I/II-35	Floodplain Map is provided in Part I/II, Appendix I/IIA, Drawing I/IIA-15	Floodplains and Wetlands
167	Part II	Acknowledge that the construction and operation of the facility shall not result in the destruction or adverse modification of the critical habitat or cause or contribute to the taking of endangered or threatened species.	Acknowledgement	330.61(n)(1)	Yes	Part I/II Report, Section 12, Page I/II-37		Endangered Species
168	Part II	Provide a demonstration of whether facility is located within species range and provide a biological assessment	Required	330.61(n)(2)	Yes	Part I/II Report, Section 12, Page I/II-37; Appendix I/IIJ		Endangered Species
169	Part II	Provide documentation of compliance with Natural Resource Code, Chapter 191 (Texas Antiquities Code)	Required	330.61(o)	Yes	Part I/II Report, Section 13, Page I/II-38; Appendix I/IIK		Historical Commission

170	Part II	Provide documentation that Parts I and II of the application were submitted for review to the applicable council of governments for compliance with regional solid waste plans.	Required	330.61(p)	Yes	Part I/II Report, Section 14, Page I/II-39; Appendix I/IIL		COG Review
171	Part II	Acknowledgement that the owner or operator requested a review letter from any local government, as appropriate for compliance with local solid waste plans. A review letter is not a prerequisite to a final determination on a permit or registration application.	Acknowledgement	330.61(p)	Yes	Part I/II Report, Section 14, Page I/II-39; Appendix I/IIL		COG Review
172	Part II	Provide a constructed map showing boundary, zoning, & land use within one mile including info from 330.61(c)(4), (5), & (10) (schools, hospitals, etc.)	Required	330.61(g)	Yes	Part I/II, Appendix I/IIA, Drawings I/IIA-8, 9, and 10		Maps/Drawings
173	Part II	Provide the prevailing wind direction with a wind rose.	Required	330.61(c)(1)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-12		Maps/Drawings
174	Part II	Provide the location of all known water wells within 500 feet of the proposed permit boundary with the state well numbering system designation for Water Development Board "located wells".	Required	330.61(c)(2)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-13		Maps/Drawings
175	Part II	Provide the location of all structures and inhabitable buildings within 500 feet of the facility	Required	330.61(c)(3)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-12		Maps/Drawings
176	Part II	Provide the location of all schools, licensed day-cares, churches, hospitals, cemeteries, ponds, lakes, residential, commercial, & recreational areas within one mile of the facility	Required	330.61(c)(4)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-8		Maps/Drawings
177	Part II	Provide the location and surface type of roads used for access within one mile of the facility	Required	330.61(c)(5)	Yes	Part I/II, Appendix I/IIH, Page I/IIH-16		Maps/Drawings
178	Part II	Provide the latitude & longitude of the facility	Required	330.61(c)(6)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-6 (Facility Layout Plan)	Also indicated on Pg 12 of Part I Form	Maps/Drawings
179	Part II	Provide the location of all area streams	Required	330.61(c)(7)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-3	Also in narrative text, Part I/II Report, Section 9.2, Pg I/II-32	Maps/Drawings
180	Part II	Provide the location of all airports within six miles	Required	330.61(c)(8)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-11		Maps/Drawings
181	Part II	Indicate the property boundary of facility	Required	330.61(c)(9)	Yes	Part I/II, Appendix IIA Drawings; survey drawing of property provided in Appendix I/IIC (Pg I/IIC-6)		Maps/Drawings
182	Part II	Indicate all drainage, pipeline, and utility easements within & adjacent to the facility	Required	330.61(c)(10)	Yes	Part I/II, Appendix I/IIC, Page I/IIC-5		Maps/Drawings
183	Part II	Provide the location of all access control features	Required	330.61(c)(11)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-6 (Facility Layout Plan)		Maps/Drawings
184	Part II	Provide the location of all archaeological sites, historical sites, and sites with an aesthetic quality adjacent to the facility	Required	330.61(c)(12)	Yes	There are none. [Noted on Part I/II, Appendix I/IIA, Drawing I/IIA-8]		Maps/Drawings
185	Part II	Provide a facility layout map	Required	330.61(d)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-6		Maps/Drawings
186	Part II	A set of maps may be provided	Informational	330.61(d)		Yes, sets ARE provided - within Appendix I/IIA		Maps/Drawings
188	Part II	Provide the location of interior roads	Required	330.61(d)(2)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-7	Interior roads associated with transfer station are shown on this drawing	Maps/Drawings
189	Part II	Indicate the location of monitor wells	Required	330.61(d)(3)	Yes	N/A	This transfer station will not have monitor wells	Maps/Drawings
190	Part II	Provide the location of all facility buildings	Required	330.61(d)(4)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-7		Maps/Drawings
191	Part II	Provide notes on sequence of development	Required	330.61(d)(5)	Yes	N/A	There will not be a sequence (or phasing) of development	Maps/Drawings
192	Part II	Indicate the location of all facility fencing	Required	330.61(d)(6)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-6		Maps/Drawings
198	Part II	Indicate the dimensions of cells	Required	330.61(d)(9)(D)	Yes	N/A	There are no disposal cells	Maps/Drawings
199	Part II	Indicate the maximum waste elevation & final cover	Required	330.61(d)(9)(E)	Yes	N/A	Not a landfill	Maps/Drawings
200	Part II	Provide a general topographic maps: USGS 7.5 minute or equivalent one map at scale 1 in. = 2,000 ft.	Required	330.61(e)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-3		Maps/Drawings
201	Part II	Provide Aerial Photograph(s) that are at least 9 in. by 9 in. at scale range of one inch = 1,667-3,334 ft. that covers an area at least one mile in radius of the site. Facility boundary and fill areas (as applicable) must be shown.	Required	330.61(f)	Yes	Part I/II, Appendix I/IIA, Drawing I/IIA-4	Also Drawing I/IIA-5 has a photo at an enlarged scale	Maps/Drawings
202	Part II	A series of photos showing growth trends may be used	Informational	330.61(f)(2)		Part I/II, Appendix I/IIG, Page I/IIG-15 thru 20		Maps/Drawings
203	Part II	All submitted prints & photocopies must be legible	Informational	330.61(f)(3)		Application complies	most legible copy available was provided	Maps/Drawings

212	Part II	No solid waste disposal operations are permitted in the 100yr. floodway	Informational	330.547(a)		N/A	Disposal will not occur at this facility, and furthermore, the transfer station is not within a 100-year floodway	Floodplains and Wetlands
213	Part II	Demonstrate that, a facility located in 100 year flood plains, does not restrict the flow of the 100 yr. flood, reduce temporary storage capacity, or result in washout of solid waste so as to pose a hazard to human health and the environment	Required	330.547(b)	Yes	Part I/II Report, Section 11, Page I/II-35; Part I/II, Appendix I/IIA, Drawing I/IIA-15		Floodplains and Wetlands
214	Part II	Demonstrate that storage and processing facilities are located outside of the 100 year floodplain.	Required	330.547(c)	Yes	Part I/II Report, Section 11, Page I/II-35; Part I/II, Appendix I/IIA, Drawing I/IIA-15		Floodplains and Wetlands
215	Part II	For storage and processing facilities located within the 100 year floodplain, please provide a demonstration that the facility is designed to prevent washout during a 100 year storm event, or a conditional letter of map amendment from the Federal Emergency Management Administration administrator	Required	330.547(c)	Yes	N/A, as stated in Part I/II Report, Section 11, Page I/II-35	Transfer station will NOT be located in the 100-year floodplain	Floodplains and Wetlands
216	Part II	Acknowledge if the facility will be located in wetlands.	Acknowledgement	330.553(a) & (b)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36	The transfer station will NOT be located in wetlands.	Floodplains and Wetlands
217	Part II	Demonstrate, if located within wetlands, that there is no practicable alternative location	Required	330.553(b)(1)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
218	Part II	Acknowledge that the facility's construction & operations shall not cause or contribute to violations of state water quality standards, violation of any applicable toxic effluent standard or prohibition under the Clean Water Act §307; jeopardize the continued existence of endangered or threatened species or result in the destruction or adverse modification of a critical habitat, protected under the Endangered Species Act of 1973, or violate any requirement under the Marine protection, Research, & Sanctuaries Act	Acknowledgement	330.553(b)(2)(A) - (D)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
219	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing erosion, stability, & migration potential of native wetland soils, muds, and deposits used to support the landfill unit	Required	330.553(b)(3)(A)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
220	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing erosion, stability, & migration potential of dredged and fill materials used to support the landfill	Required	330.553(b)(3)(B)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
221	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the volume and chemical nature of the waste managed in the landfill unit	Required	330.553(b)(3)(C)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
222	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the impacts on fish, wildlife, and other aquatic resources and their habitat for the release of solid waste	Required	330.553(b)(3)(D)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
223	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing the potential effects of catastrophic release of waste to the wetlands and the resulting impacts on the environment	Required	330.553(b)(3)(E)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
224	Part II	If wetlands are located within the facility, submit a demonstration for the integrity of landfill unit by addressing any additional factors, as necessary, to demonstrate that ecological resources in the wetland are sufficiently protected	Required	330.553(b)(3)(F)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
225	Part II	Sufficient information shall be provided to the ED to allow a reasonable determination to be made with respect to the demonstrations cited in 30 TAC §330.553(b)	Informational	330.553(b)(5)		N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands
226	Part II	Provide the steps taken to achieve no net loss of wetlands	Required	330.553(b)(4)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Floodplains and Wetlands

227	Part II	Acknowledge that the operation of this facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species	Acknowledgement	330.551(a)	Yes	N/A, as stated in Part I/II Report, Section 11.2, Page I/II-36		Endangered Species
228	Part II	The term "Harassing" means; An intentional or negligent act or omission that creates the likelihood of injury to wildlife	Informational	330.551(b)(1)				Endangered Species
229	Part II	The term "Harming" means; An act of omission that actually injures or kills wildlife, including acts that annoy it to such an extent as to significantly disrupt essential behavioral patterns	Informational	330.551(b)(2)				Endangered Species
230	Part II	The term "Taking" means; collecting an endangered or threatened species or attempting to engage in such conduct	Informational	330.551(b)(3)				Endangered Species
231	Part II	Acknowledge that no solid waste unloading, storage, disposal, or processing operations shall occur within any easement, buffer zone, or right-of-way that crosses the facility	Acknowledgement	330.543(a)	Yes	Part I/II Report, Section 6.4, Page I/II-23		Easements and Buffer Zone
270	Part II	Submit information for on-site local geologic or geomorphologic features	Required	330.559(2)	Yes	Part I/II Report, Section 8, Page I/II-29		Geology
271	Part II	Identify local human-made features or events	Required	330.559(3)	Yes	Part I/II Report, Section 8, Page I/II-31	There are no unstable areas, thus no local human-made features to identify that could make it unstable	Geology
272	Part III	Describe facility access control features	Required	330.63(b)(1)	Yes	Part III Report, Section 2.2, Page III-3		General Facility Design
273	Part III	Submit a process design for the facility [that includes items 330.63(b)(2)(A) through 330.63(b)(2)(I)]	Required	330.63(b)(2)	Yes	Part III Report, Section 2.3, Page III-4; and Part III Attachment 1 Drawings		General Facility Design
274	Part III	Submit a flow diagram(s) to describe the storage, processing, and disposal sequences for each type of waste and/or	Required	330.63(b)(2)(A)	Yes	Part III, Attachment 1, Drawing III-1-1		General Facility Design
275	Part III	Submit a schematic view drawing(s) showing phases for collection, separation and processing/disposal of each type of waste and/or feedstock/recyclable material	Required	330.63(b)(2)(B)	Yes	Part III, Attachment 1, Drawings III-1-4 and 5		General Facility Design
276	Part III	Provide ventilation & odor control measures for each unit	Required	330.63(b)(2)(C)	Yes	Part III Report, Section 2.3.3, Page III-3		General Facility Design
277	Part III	Provide construction details of storage, processing units & components, dimensions, capacity, materials used, etc.	Required	330.63(b)(2)(D)	Yes	Part III Report, Section 2.3.4, Page III-4; and Part III Attachment 1 Drawings		General Facility Design
278	Part III	Provide performance data for all storage and processing units and ancillary equipment	Required	330.63(b)(2)(D)	Yes	Part III Report, Section 2.3.4, Page III-4; and Part III Attachment 1 Drawings		General Facility Design
280	Part III	Submit location and engineering designs for containment of storage, processing and loading & unloading areas including freeboard	Required	330.63(b)(2)(F)	Yes	Part III Report, Section 2.3.4, Page III-4; and Part III Attachment 1 Drawings		General Facility Design
281	Part III	Describe the storage and handling of grease, oil and sludge, including the maximum time waste will be on-site and details of ultimate disposition	Required	330.63(b)(2)(G)	Yes	N/A - not proposed		General Facility Design
282	Part III	Provide details of effluent disposal	Required	330.63(b)(2)(H)	Yes	Part III Report, Section 2.4, Pages III-5 and 6		General Facility Design
283	Part III	Provide designs for noise pollution control	Required	330.63(b)(2)(I)	Yes	Part III Report, Section 2.3.5, Pages III-5		General Facility Design
284	Part III	Describe how the processing areas will be designed for proper cleaning and to prevent surface water runoff onto, into, and off the treatment areas	Required	330.63(b)(3)(A)	Yes	Part III Report, Section 2.4, Pages III-5 and 6		General Facility Design
285	Part III	Describe construction material used for walls and floors that can be hosed down and scrubbed	Required	330.63(b)(3)(B)	Yes	Part III Report, Section 2.4,.2 Page III-6		General Facility Design
286	Part III	Describe water or steam connections and equipment for cleaning	Required	330.63(b)(3)(C)	Yes	Part III Report, Section 2.4,.2 Page III-6		General Facility Design
287	Part III	Provide adequate floor drains and/or sumps	Required	330.63(b)(3)(D)	Yes	Part III Report, Section 2.4,.2 Page III-6		General Facility Design
288	Part III	Describe proper disposal of liquids resulting from waste processing, cleaning, and washing and provide for the treatment of waste water	Required	330.63(b)(4)	Yes	Part III Report, Section 2.4,.2 Page III-6		General Facility Design
338	Part III	Submit if applicable, a floodplain development permit from any agency with jurisdiction over the proposed improvements	Required if Requested	330.63(c)(2)(D)(ii)	Yes	N/A	Transfer station is not in or near a 100-year floodplain	Surface Water Drainage Report
339	Part III	Submit if applicable a Conditional Letter of Map Amendment from FEMA	Required if Requested	330.63(c)(2)(D)(iii)	Yes	N/A	LOMR not required/requested. Transfer station is not in or near a 100-year floodplain	Surface Water Drainage Report

340	Part III	Submit if applicable, Corps of Engineers Section 404 Specification of Disposal Sites for Dredged or Fill Material permit for construction of all necessary improvements	Required if Requested	330.63(c)(2)(D)(iv)	Yes	N/A	Facility will not impact wetlands or waters of the US; 404 permit is not required	Surface Water Drainage Report
341	Part III	Provide for storage & transfer units a description of design features for the rapid processing and minimum detention of solid waste at the facility	Required	330.63(d)(1)(A)	Yes	Part III Report, Section 4.2, Page III-8		Waste Management Unit Design
547	Part III	Indicate that a characterization of the contaminated groundwater, including concentrations of assessment constituents as defined in §330.409	Required	330.63(f)(7)(A)	Yes	N/A - there is no contaminated groundwater		Groundwater Sampling & Analysis Plan
703	Part III	Specify in the closure plan that the operator will begin closure no later than 30 days after final receipt of waste or no later than one year if the unit has remaining capacity and additional waste may be received	Required	330.457(f)(3)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan
704	Part III	Provide for closure activities to be completed within 180 days of initiation	Required	330.457(f)(4)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan
705	Part III	Provide for post-closure care requirements following completion of closure. Submit PE certification of closure by registered mail with supporting documentation.	Required	330.457(f)(5)	Yes	Part III, Attachment 3 (Closure Plan), Sections 3 and 4, Pages 3-4 and 3-5	Post closure care is N/A; explained on referenced pages	Closure Plan
706	Part III	Acknowledge that following receipt of closure documents and the inspection report by the TCEQ region, the ED may acknowledge termination of operation & closure & deem the facility properly closed	Acknowledgement	330.457(f)(6)	Yes	Part III, Attachment 3 (Closure Plan), Section 3, Page 3-4		Closure Plan
708	Part III	Indicate that notice of closure will be published in the newspaper of largest circulation 90 days prior to the initiation of a final facility closure. The notice shall provide the name, address, and physical location of the facility; the TCEQ authorization number; and the last date of intended receipt of waste.	Required	330.461(a)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan
709	Part III	Acknowledge that notice of closure will be provided to the ED 90 days prior to the initiation of a final facility closure and that the owner or operator will also make available an adequate number of copies of the approved final closure and post-closure plans (if applicable) for public access and review	Acknowledgement	330.461(a)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan
711	Part III	Indicate that suitable barriers will be installed at all access points to adequately prevent the unauthorized dumping of solid waste at the closed facility.	Required	330.461(b)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan
712	Part III	Indicate that an Affidavit to the Public will be submitted to the ED by registered mail, if waste will remain onsite and indicate that The Owner or Operator will also record a certified notation on the deed to the facility property that the land has been used as a landfill and submit a certified copy of the modified deed to the ED	Required if Requested	330.461(c)(1)	Yes	N/A - no wastes will remain [stated on Closure Plan Page 3-5]		Closure Plan
713	Part III	Acknowledge that a certification, signed by a P.E., will be provided within 10 days of final closure activities, verifying that final facility closure has been completed in accordance with the approved closure plan and will include all applicable documentation necessary for certification	Acknowledgement	330.461(c)(2)	Yes	Part III, Attachment 3 (Closure Plan), Section 3, Page 3-4		Closure Plan
715	Part III	The owner or operator may request permission from the ED to remove the notation from the deed if all wastes are removed from the facility	Informational	330.461(d)				Closure Plan
716	Part III	Submit a closure plan for Storage and Processing units to remove all waste, waste residues, and any recovered materials. Units shall be dismantled and removed off-site or decontaminated.	Required	330.459(a)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan For Processing Facilities
717	Part III	Provide plans for the evacuation of all material on-site to an authorized facility and the disinfecting of all contaminated water handling units, tipping areas, processing and post-processing areas (as applicable)	Required	330.459(b)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan For Processing Facilities
718	Part III	Acknowledge that if there is evidence of a release, the ED may require an investigation, assessment, and or corrective action.	Acknowledgement	330.459(c)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-3		Closure Plan For Processing Facilities

719	Part III	Submit a plan (if combustible material is stored outdoors) for closure of a recycling facility that includes collecting processed and unprocessed materials, and transporting the materials to an authorized facility for disposition	Required	330.459(d)(1)	Yes	N/A - combustible material is not proposed to be stored outdoors		Closure Plan For Processing Facilities
720	Part III	Provide for the closure plan to be implemented (if combustible material is stored outdoors) and completed within 180 days following the most recent acceptance of processed or unprocessed materials	Required	330.459(d)(2)	Yes	Part III, Attachment 3 (Closure Plan), Section 2, Page 3-2		Closure Plan For Processing Facilities
732	Part III	Place a copy of the post-closure plan in the operating record by initial receipt of waste.	Required	330.463(b)(3)	Yes	N/A - no wastes will remain [stated on Closure Plan Page 3-5]; thus no post-closure care required		Post-Closure Plan
733	Part III	Submit a description of the monitoring and maintenance activities required and the frequency at which these activities will be performed	Required	330.463(b)(3)(A)	Yes	N/A - no wastes will remain [stated on Closure Plan Page 3-5]; thus no post-closure care required		Post-Closure Plan
739	Part III	Submit cost estimates for closure & post-closure. Existing facilities must submit a copy of the financial assurance documentation. New facilities must submit financial assurance within 60 days prior to receipt of waste	Required	330.63(j)	Yes	Part III, Attachment 4 (cost estimate table is on Page 4-3)	Provided for closure. Post-closure is N/A for this processing facility	Closure Cost Estimates
740	Part III	Submit a dollar estimate of hiring a 3rd party to close the largest waste fill area that could potentially be open in the year to follow and those areas that have not received final cover. For landfills this means the completion of the final closure requirements for active and inactive fill areas.	Required	330.503(a)	Yes	Part III, Attachment 4 (see Table 4-1, Page 4-3)		Closure Cost Estimates
741	Part III	Provide for annual review of cost estimates	Required	330.503(a)(1)	Yes	Part III, Attachment 4, Section 3, Page 4-4		Closure Cost Estimates
742	Part III	Submit an increase to the cost estimate if changes to final closure plan or landfill conditions increase the maximum cost of closure at any time during the remaining active life of the unit	Required	330.503(a)(2)	Yes	Part III, Attachment 4, Section 3, Page 4-4		Closure Cost Estimates
744	Part III	Provide cost estimates to close a Recycling facility that stores combustible materials outdoors.	Required	330.505(a)(1)	Yes	N/A	This facility does not propose to store combustible materials outdoors	Closure Cost Estimates
752	Part III	Submit an increase in the post-closure care cost estimate and the amount of financial assurance if changes in the post-closure care plan or the unit conditions increase the maximum costs of post-closure care	Required if Requested	330.507(a)(1)	Yes	N/A	This is not a landfill	Post-Closure Care Cost Estimates for Landfills
754	Part III	Implement a corrective action program and a detailed written cost estimate of the cost of hiring a third party to perform the corrective action program. The corrective action cost estimate shall account for the total costs of corrective action activities	Required if Requested	330.509(a)	Yes	N/A	This is not a landfill	Corrective Action Cost Estimate
755	Part III	The corrective action cost estimate and the amount of financial assurance shall be increased if changes in the corrective action program or unit conditions increase the maximum costs of corrective action	Required if Requested	330.509(a)(1)	Yes	N/A	This is not a landfill	Corrective Action Cost Estimate
756	Part III	A reduction in the cost estimate and the amount of financial assurance for corrective action may be approved if the cost estimate exceeds the maximum remaining costs of corrective action at any time during the remaining corrective action period	Required if Requested	330.509(a)(2)	Yes	N/A	This is not a landfill	Corrective Action Cost Estimate
757	Part III	Provide financial assurance for the costs of the most recent corrective action program. Continuous financial assurance coverage for each corrective action program shall be provided until the facility is officially released in writing by the ED	Required if Requested	330.509(b)	Yes	N/A	This is not a landfill	Corrective Action Cost Estimate
781	Part IV	Indicate that the operating record will be maintained for life & post-closure period of the facility	Required	330.125(d)	Yes	Cited rule is for landfills and is N/A. However, see statement in SOP, Section 2, Page IV-2		Site Operating Plan
783	Part IV	Indicate that personnel operating licenses issued under 30 TAC Chapter 30, Subchapter F will be maintained in the site operating record	Required	330.125(f)	Yes	Cited rule is for landfills. However, see SOP, Section 2.6, Page IV-5		Site Operating Plan

784	Part IV	Indicate that the executive director may set alternative schedule for recordkeeping & notification	Required	330.125(g)	Yes	Cited rule is for landfills. However, see SOP, Section 2.5, Page IV-5		Site Operating Plan
785	Part IV	Indicate that records documenting the annual waste acceptance rate will be maintained in the site operating record	Required	330.125(h)	Yes	Cited rule is for landfills. However, see SOP, Section 2.7, Page IV-5		Site Operating Plan
786	Part IV	Indicate that documentation of waste acceptance rate will include maintaining annual & quarterly waste summary reports required by 30 TAC §330.675	Required	330.125(h)	Yes	Cited rule is for landfills. However, see SOP, Section 2.7, Page IV-5		Site Operating Plan
787	Part IV	Indicate that the facility will provide the reports required by 30 TAC §330.675 to the Executive Director	Required	330.675	Yes	Cited rule is for landfills. However, see SOP, Section 2.7, Page IV-5		Site Operating Plan
810	Part IV	Identify all unloading areas and specify maximum size of each unloading area.	Required	330.133(a)	Yes	SOP Section 4.2, Page IV-11		Site Operating Plan
985	Part IV	Indicate the facility shall notify the executive director, and other appropriate state and local authorities, that the facility is in full compliance with 30 TAC §335.589(f)(8) before operations are resumed in the affected area(s) of the facility	Required If Requested	335.589(f)(10)	Yes	N/A (this facility is not an industrial/hazardous waste landfill facility)		Site Operating Plan
986	Part IV	Indicate that the facility shall note in operating record the time, date, & details of the incident & within 15 days submit a written report to executive director that includes the name, address, phone # of operator & facility, date, time, & type of incident, name & quantity of material involved, extent of injuries, assessment of hazards, estimated quantity & disposition of material resulting from incident	Required If Requested	335.589(f)(11)(A) - (G)	Yes	N/A (this facility is not an industrial/hazardous waste landfill facility)		Site Operating Plan
987	Part IV	Indicate that may be accepted for disposal in any commercial industrial nonhazardous waste landfill facility provided the amount of hazardous waste accepted from each conditionally exempt small quantity generator does not exceed 220 pounds (100 kilograms) a calendar month, and provided the landfill owner or operator is willing to accept the hazardous waste	Required If Requested	335.590(25)	Yes	N/A (this facility is not an industrial/hazardous waste landfill facility)		Site Operating Plan
990	Part IV	Provide information identifying any permit required under the TPDES and any permit requirements imposed by other agencies for a grease, grit, & septage processing facility	Required	330.65(d)	Yes	N/A (this is not a grease, grit, or septage processing facility)		Site Operating Plan
991	Part IV	Identify source & characteristics of wastes that will be received and Specify any limiting parameters that may influence the design and operation of the facility	Required	330.203(a)	Yes	SOP Section 4.1, Page IV-10; and 4.2, Page IV-11		Site Operating Plan
992	Part IV	Provide estimate of the amount of each waste to be received daily, max amount stored at any one time, max & average time waste will remain on-site, max & average processing time, intended destination of generated wastes, & description of how 10% will be recovered if applicable	Required	330.203(b)	Yes	SOP Section 4.2, Page IV-11	The 10% recovery is not applicable	Site Operating Plan
993	Part IV	Acknowledge that 10% recovery of material for beneficial use is considered to be the recovery of fats, oil, and greases, but does not include the recovery of water.	Acknowledgement	330.203(b)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
994	Part IV	Provide a description of the method of sampling and analysis for the effluent discharged to a trap, interceptor, or treatment facility permitted under Texas Water Code, Chapter 26. At a minimum, the method of sampling, the frequency of sampling, and the tests to be made shall be part of the sampling and analysis plan. All sampling and analysis shall be done according to approved United States Environmental Protection Agency (EPA) methods.	Required	330.203(c)(1)	Yes	SOP Section 4.4, Page IV-12	Facility is not experimental, nor will there be on-site processing of grit trap wastes, sludges - nor the generation of effluent from a treatment process. Page IV-12 also reference the contaminated water plan in Section 5 of SOP, which addresses potential sampling/analysis of contained water.	Site Operating Plan
995	Part IV	Indicate that records of sampling analysis of wastes and effluent shall be maintained for a three-year period.	Required	330.203(c)(1)	Yes	SOP Section 4.4, Page IV-12 explains why N/A		Site Operating Plan
996	Part IV	Provide a sampling and analysis plan that includes at minimum analyses for benzene, lead, & TPH for waste received	Required	330.203(c)(2)	Yes	SOP Section 4.4, Page IV-12 explains why N/A		Site Operating Plan
997	Part IV	Provide for the annual analysis of grit trap wastes for BOD, TSS, benzene, TPH, & lead	Required	330.203(c)(2)	Yes	SOP Section 4.4, Page IV-12 explains why N/A		Site Operating Plan
998	Part IV	Indicate that sludges to be landfilled must be analyzed annually for benzene, lead, & TPH.	Required	330.203(c)(2)	Yes	SOP Section 4.4, Page IV-12 explains why N/A		Site Operating Plan

999	Part IV	Indicate that effluent must be analyzed annually for TPH, fats, oil & grease, & pH	Required	330.203(c)(2)	Yes	SOP Section 4.4, Page IV-12 explains why N/A		Site Operating Plan
1000	Part IV	Indicate if applicable that grit trap waste proposed to be accepted is solely from commercial car washes and not from other generators.	Required If Requested	330.9(g)	Yes	N/A (such material is not proposed to be accepted)		Site Operating Plan
1001	Part IV	Acknowledge that a report with supporting documentation shall be submitted on a quarterly basis to demonstrate at least 10% of the volume of the waste received was processed to recover solid material that was recycled or reused	Acknowledgement	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1002	Part IV	Acknowledge that failure to achieve the relevant 10 percent recycling rate in any two quarters within any one-year period will cause a registration to terminate and will require the owner or operator of the facility to obtain a permit to continue facility operations.	Acknowledgement	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1003	Part IV	Provide for a quarterly report to be submitted that will include volume of waste received, percent solids, and the method of determining the percent solids, processed, disposed, and recycled or reused.	Required	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1004	Part IV	Provide in the quarterly report, the method(s) utilized to achieve at least 10% recycling or reuse of incoming material	Required	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1005	Part IV	Submit a quarterly report that reconciles the volume of waste with the amounts on manifests, shipping documents, or trip tickets and indicate where the recyclable material was taken for recycling	Required	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1006	Part IV	Acknowledge that the addition of any material such as lime, polymer, or flocculent added as part of the recycling process is not allowed to be considered as part of the 10% recovery of material from the waste stream and must be subtracted from the material considered as recycled	Acknowledgement	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1007	Part IV	Acknowledge that diverting material from the waste stream without processing is not considered to be recycling as part of this activity.	Acknowledgement	330.9(g)(1)	Yes	N/A - facility not subject to/proposing 10% recovery		Site Operating Plan
1008	Part IV	Provide the characteristics and constituent concentrations of wastes generated by the facility and indicate that documentation that all wastes leaving the facility can be adequately managed by other authorized facilities will be provided	Required	330.205(a)	Yes	SOP Section 4.3, Page IV-12 and Section 5, Page IV-13	Only wastes generated are wastewaters (contaminated water). SOP Section 5, Page IV-13 addresses this	Site Operating Plan
1009	Part IV	Indicate that all wastes generated by a facility must be processed or disposed at an authorized solid waste management facility	Required	330.205(b)	Yes	SOP Section 4.3, Page IV-12 and Section 5, Page IV-13		Site Operating Plan
1010	Part IV	Indicate that all wastewaters generated by a facility shall be managed as contaminated water in accordance with 330.207	Required	330.205(c)	Yes	SOP Section 4.3, Page IV-12 and Section 5, Page IV-13		Site Operating Plan
1012	Part IV	Indicate that the facility shall be designed and operated to produce a sludge that is acceptable at municipal solid waste landfills and does not exceed standards specified in 30 TAC §330.205(d)	Required If Requested	330.205(d)	Yes	N/A - sludge will not be produced		Site Operating Plan
1013	Part IV	Indicate that sludges exceeding the limits shall not be disposed in municipal solid waste landfills and must be sent to an authorized facility for further processing or disposal as a hazardous waste, as appropriate or disposed in a municipal solid waste landfill with dedicated Class 1 industrial solid waste cells if the sludge is nonhazardous.	Required If Requested	330.205(d)	Yes	N/A - sludge will not be produced		Site Operating Plan
1015	Part IV	Provide a plan that describes how all liquids resulting from the operation of the facility shall be disposed of in a manner that will not cause surface water or groundwater pollution.	Required	330.207(a)	Yes	SOP Section 5, Page IV-13		Site Operating Plan
1016	Part IV	Indicate that contaminated water shall be collected and contained until properly managed.	Required	330.207(b)	Yes	SOP Section 5, Page IV-13		Site Operating Plan
1017	Part IV	Indicate that leachate shall be collected and contained until properly managed.	Required	330.207(b)	Yes	SOP Section 5, Page IV-13		Site Operating Plan

1018	Part IV	Indicate that collection units other than storage tanks shall have a clay or synthetic liner and the liner shall be constructed in accordance with 30 TAC §330.331(b)	Required If Requested	330.207(b)	Yes	N/A because storage tanks are proposed as the means of collection/holding		Site Operating Plan
1020	Part IV	Indicate that the use of leachate & gas condensate in mining process is prohibited.	Required	330.207(c)	Yes	N/A - this is not a mining process		Site Operating Plan
1021	Part IV	Indicate that the facility will not discharge to a septic system	Required	330.207(d)	Yes	N/A - this is not a facility that processes grease trap waste, grit trap waste, septage, etc.		Site Operating Plan
1022	Part IV	Indicate that off-site discharge of contaminated waters shall be made only after approval under the Texas Pollutant Discharge Elimination System authority	Required	330.207(e)	Yes	SOP Section 5, Page IV-13		Site Operating Plan
1023	Part IV	Acknowledge that wastewaters discharged to a facility permitted under Texas Water Code, Chapter 26 must not interfere with or pass-through the treatment facility processes or operations, interfere with or pass-through its sludge processes, use, or disposal or otherwise be inconsistent with the prohibited discharge standards, including 40 Code of Federal Regulations Part 403, General Pretreatment Regulations for Existing and New Source Pollution	Acknowledgement	330.207(f)(1)	Yes	SOP Section 5, Page IV-13	Section 5, Page IV-13 indicates that	Site Operating Plan
1024	Part IV	Indicate that the daily effluent design standard for oil and grease concentration leaving the facility and entering a public sewer system shall not exceed 200 milligrams per liter, the concentration established in the wastewater discharge permit pretreatment limit or the concentration established by the treatment facility permitted under Texas Water Code, Chapter 26, the National Pollutant Discharge Elimination System, or the limits established in 30 TAC §330.207, if the discharge points do not require compliance with locally set limits.	Required	330.207(g)	Yes	SOP Section 5, Page IV-13		Site Operating Plan
1025	Part IV	Indicate that lagoons, open-top storage tanks, open vessels, and underground storage units are prohibited at liquid waste transfer facilities	Required	330.207(h)	Yes	N/A - this is not a liquid waste transfer facility		Site Operating Plan
1026	Part IV	Provide plans demonstrating that all waste shall be stored in such a manner that it does not constitute a fire, safety, or health hazard or provide food or harborage for animals and vectors, and shall be contained or bundled so as not to result in litter.	Required	330.209(a)	Yes	SOP Section 6.1, Page IV-14		Site Operating Plan
1027	Part IV	Provide a description of on-site storage area for source-separated or recyclable materials that is separate from a transfer station or process area and provides for the control of odors, vectors, and windblown waste	Required If Requested	330.209(b)	Yes	SOP Section 6.1, Page IV-14		Site Operating Plan
1028	Part IV	Provide plans for process area of transfer stations that recover material from putrescible or liquid waste. Such plans shall provide for the storage of processed and unprocessed waste & recycled materials in enclosed buildings, vessels, or containers.	Required If Requested	330.209(c)	Yes	N/A - as indicated in SOP Section 6.1, Page IV-14		Site Operating Plan
1029	Part IV	Provide a plan that describes how all waste containing food wastes shall be stored in covered or closed containers that are leak-proof, durable, and designed for safe handling and easy cleaning	Required	330.211	Yes	SOP Section 6.1, Page IV-14		Site Operating Plan
1030	Part IV	Indicate that nonreusable containers shall be of suitable strength to minimize vector scavenging or rupturing.	Required	330.211(1)	Yes	SOP Section 6.2, Page IV-14		Site Operating Plan
1031	Part IV	Indicate that reusable containers must be maintained in a clean condition as not to constitute a nuisance, harbor, feed, and propagate vectors.	Required	330.211(2)	Yes	SOP Section 6.2, Page IV-14		Site Operating Plan
1032	Part IV	Indicate that any containers emptied manually must be capable of being serviced without physical contact with waste.	Required	330.211(2)(A)	Yes	SOP Section 6.2, Page IV-14		Site Operating Plan
1033	Part IV	Indicate that containers that are mechanically handled must be designed to prevent spillage/leakage during storage, handling, and transport.	Required	330.211(2)(B)	Yes	SOP Section 6.2, Page IV-14		Site Operating Plan

1036	Part IV	A citizen's collection station may accept sharps from single-family or multi-family dwellings, hotels, motels, or other establishments that provide lodging and related services for the public. The sharps will not be considered medical waste, as defined in 30 TAC §330.3.	Required If Requested	330.213(b)	Yes	N/A - not proposed (as indicated in SOP Section 6.3, Page IV-14)		Site Operating Plan
1037	Part IV	Provide operational standards for stationary compactors that describe how they will operated and maintained in such a way as not to create a public nuisance through material loss or spillage, odor, vector breeding or harborage, or other condition.	Required If Requested	330.215(1) and (2)	Yes	N/A - not proposed (as indicated in SOP Section 6.4, Page IV-15)		Site Operating Plan
1038	Part IV	Indicate that a copy of the permit or registration, application, and any other plans or related documents, and as-built plans will be maintained in the site operating record and shall be made available for inspections by agency representatives or other interested parties.	Required	330.219(a)	Yes	SOP Section 2, Page IV-2		Site Operating Plan
1040	Part IV	Indicate that trip tickets will be maintained according to the record retention provisions in 30 TAC §312.145.	Required	330.219(b)(8)	Yes	SOP Section 2, Table IV-1, Page IV-3		Site Operating Plan
1043	Part IV	Acknowledge that if the authorization to sign is not longer accurate a new authorization will be submitted	Acknowledgement	330.219(c)(2)	Yes	SOP Section 2.2, Page IV-4		Site Operating Plan
1044	Part IV	Indicate that any person signing a report shall make the certification in 305.44(b).	Required	330.219(c)(3)	Yes	SOP Section 2.2, Page IV-4		Site Operating Plan
1045	Part IV	Indicate that the operator shall maintain records on-site, available for inspection by the executive director for a period consisting of the two most recent calendar years	Required	330.219(d)	Yes	N/A - this rule is for composting and mining facilities (not proposed at this facility)	Top of Page IV-4 identifies this as N/A	Site Operating Plan
1047	Part IV	Indicate that the results of final product testing under 30 TAC §330.613 or §332.71 will be maintained in the site operating record	Required	330.219(d)(2)	Yes	N/A - this rule is for composting and mining facilities (not proposed at this facility)	Top of Page IV-4 identifies this as N/A	Site Operating Plan
1048	Part IV	Indicate that copies of annual reports will be maintained in the site operating record for 5yrs	Required	330.219(d)(3)	Yes	N/A - this rule is for composting and mining facilities (not proposed at this facility)	Top of Page IV-4 identifies this as N/A	Site Operating Plan
1049	Part IV	Indicate that the site operating record shall be furnished and available for inspection by executive director.	Required	330.219(e)	Yes	SOP Section 2.3, Page IV-4		Site Operating Plan
1050	Part IV	Indicate that the operator shall retain site operating record for the life of the facility.	Required	330.219(f)	Yes	SOP Section 2.4, Page IV-4		Site Operating Plan
1051	Part IV	Indicate that the executive director may set alternative recordkeeping & notification schedules.	Required	330.219(g)	Yes	SOP Section 2.5, Page IV-5		Site Operating Plan
1052	Part IV	Indicate that the operators of medical waste processing facilities that accept untreated waste requiring shipping documents per 30 TAC §330.1211 must ensure that the document accompanies the shipment, specifies the receiving facility and that the operator signs document & provides a copy to transporter, the operator must retain one copy and provides the generator with a copy including a statement that waste was treated per 25 TAC 1.136 within 45 days.	Required	330.219(h)(1) – (4)	Yes	N/A - this facility is not a medical waste processing facility		Site Operating Plan
1053	Part IV	Provide a fire protection plan that describes the source of fire protection (a local fire department, fire hydrants, fire extinguishers, water tanks, water well, etc.), procedures for using the fire protection source, and employee training and safety procedures. The fire protection plan shall comply with local fire codes.	Required	330.221(c)	Yes	SOP Section 7, Page IV-16		Site Operating Plan
1054	Part IV	Provide a description of the availability of water under pressure for firefighting purposes	Required	330.221(a)	Yes	SOP Section 7, Page IV-16		Site Operating Plan
1055	Part IV	Provide a description of on-site firefighting equipment	Required	330.221(b)	Yes	SOP Section 7, Page IV-16		Site Operating Plan
1056	Part IV	Indicate that all employees shall be trained in the contents and use of the fire protection plan	Required	330.221(c)	Yes	SOP Section 7.4, Page IV-18		Site Operating Plan

1057	Part IV	Provide a description of the artificial barriers, natural barriers, or a combination of both, appropriate to protect human health and safety and the environment that are used to control access to the facility and indicate that uncontrolled access to the facility shall be prevented.	Required	330.223(a)	Yes	SOP Section 8, Page IV-19		Site Operating Plan
1058	Part IV	Provide a description of the, minimum two lane, access road from the public road and how it is designed for expected traffic volumes and adequate turning radii.	Required	330.223(b)	Yes	SOP Section 8.1.3, Page IV-20		Site Operating Plan
1059	Part IV	Provide a description of vehicle parking for equipment, employees, and visitors. Indicate that safety bumpers at hoppers must be provided for vehicles. And provide a description of the positive means to control dust and mud.	Required	330.223(b)	Yes	SOP Section 8.2.1, Page IV-20		Site Operating Plan
1060	Part IV	Provide a description of perimeter control fencing that includes having lockable gates and attendant on site during operating hours. Operating and transport areas shall be enclosed by walls or fencing.	Required	330.223(c)	Yes	SOP Sectoin 8.1.1, Page IV-19		Site Operating Plan
1061	Part IV	Provide a description of the unloading areas and indicate that unloading areas will be confined to as small an area as practical and be monitored by attendant.	Required	330.225(a)	Yes	SOP Section 8.2.1, Page IV-20		Site Operating Plan
1062	Part IV	Provide a description of the signs & forced access lanes used to prevent indiscriminate dumping	Required	330.225(a)	Yes	SOP Section 8.1.2, Page IV-20		Site Operating Plan
1063	Part IV	Indicate that the facility is not required to accept any solid waste that he/she determines will cause or may cause problems in maintaining full and continuous compliance	Required	330.225(a)	Yes	SOP Section 8.2.2, Page IV-21		Site Operating Plan
1064	Part IV	Provide procedures to ensure that waste in unauthorized areas is removed immediately and disposed of properly.	Required	330.225(b)	Yes	SOP Section 8.2.2, Page IV-21		Site Operating Plan
1065	Part IV	Provide procedures for the detection and prevention of the unloading of processing of prohibited wastes.	Required	3330.225©	Yes	SOP Section 8.2.2, Page IV-21		Site Operating Plan
1066	Part IV	Indicate that prohibited waste must be returned immediately to the transporter or generator.	Required	330.225(c)	Yes	SOP Section 8.2.2, Page IV-21		Site Operating Plan
1067	Part IV	Provide a description of how storage & processing areas are designed to control and contain worst case spill or release and will account for precipitation from a 25-year, 24-hour storm.	Required	330.227	Yes	SOP Section 8.3, Page IV-22		Site Operating Plan
1068	Part IV	Specify the waste acceptance and facility operating hours	Required	330.229(a)	Yes	SOP Section 8.4, Page IV-22		Site Operating Plan
1069	Part IV	The waste acceptance hours may be any time between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, unless otherwise approved by the executive director or commission for a permit. The operating hours for operating heavy equipment and transporting materials on- or off-site may be any time between the hours of 5:00 a.m. and 9:00 p.m., Monday through Friday, unless otherwise approved in the authorization.	Required	330.229(a)	Yes	Alternate hours are requested - see SOP Section 8.4, Page IV-22		Site Operating Plan
1070	Part IV	Specify alternative operating hours of up to five days in a calendar year to accommodate special occasions, special purpose events, holidays, or other special occurrences	Required	330.229(b)	Yes	SOP Section 8.4, Page IV-23		Site Operating Plan
1071	Part IV	Indicate that the facility will record in the site operating record the dates, times, and duration when any alternative operating hours are utilized.	Required	330.229(d)	Yes	SOP Section 8.4, Page IV-23		Site Operating Plan
1072	Part IV	Indicate that the commission's regional offices may allow additional temporary operating hours to address disaster or other emergency situations, or other unforeseen circumstances that could result in the disruption of waste management services in the area.	Required	330.229(c)	Yes	SOP Section 8.4, Page IV-23		Site Operating Plan

1073	Part IV	Indicate that a sign measuring at least 4' X 4' must be displayed at all entrances. Indicate that information on the sign must including the facility name and type, hours and days of operation, authorization number, and facility rules.	Required	330.231	Yes	SOP Section 8.5, Page IV-23		Site Operating Plan
1074	Part IV	Indicate that windblown material and litter shall be collected as necessary, throughout the facility, along fences and access roads, and at the gate, at least once per day on days that the facility is in operation, to minimize unhealthy, unsafe, or unsightly conditions.	Required	330.233(a)	Yes	SOP Section 8.6, Page IV-23 & 24		Site Operating Plan
1075	Part IV	Indicate the measures used to control windblown waste.	Required	330.233(a)(1)	Yes	SOP Section 8.6, Page IV-23 & 24		Site Operating Plan
1076	Part IV	Provide a description of fence or screen used to minimize windblown waste if the facility is not completely enclosed.	Required	330.233(b)	Yes	SOP Section 8.6, Page IV-24		Site Operating Plan
1077	Part IV	Provide procedures to encourage waste hauling vehicles to cover loads that may include posting signs, reporting offenders, and assessing surcharges.	Required	330.235	Yes	SOP Section 8.7, Page IV-24		Site Operating Plan
1079	Part IV	Provide a description of all weather access roads at the facility and how the tracking of mud and debris onto public roadways will be minimized.	Required	330.237(a)	Yes	SOP Section 8.8, Page IV-24		Site Operating Plan
1080	Part IV	Provide procedures use to ensure that dust from on-site and other access roadways shall not become a nuisance to surrounding areas and indicate that a water source and necessary equipment or other means of dust control shall be provided.	Required	330.237(b)	Yes	SOP Section 8.8, Page IV-24		Site Operating Plan
1081	Part IV	Provide procedures to be used to maintain on site roads and minimize depressions, ruts, and potholes.	Required	330.237(c)	Yes	SOP Section 8.8, Page IV-24		Site Operating Plan
1082	Part IV	Describe screening or other means used to prevent noise pollution & adverse visual impacts.	Required	330.239	Yes	SOP Section 8.9, Page IV-25		Site Operating Plan
1083	Part IV	Provide procedures used to ensure that the design capacity of the facility shall not be exceeded and that waste will not be allowed to accumulate in quantities that create a nuisance, create odors, or harbor vectors.	Required	330.241(a)	Yes	SOP Section 8.10, Page IV-25		Site Operating Plan
1084	Part IV	Provide procedures that describe how unprocessed grease, grit, & septage will only be stored up to 72hrs.	Required	330.241(a)(1)	Yes	N/A - these wastes may not be accepted		Site Operating Plan
1085	Part IV	Provide procedures that provide for the restriction, diversion or removal of waste if the facility experiences a significant work stoppage.	Required	330.241(b)	Yes	SOP Section 8.10, Page IV-25		Site Operating Plan
1086	Part IV	Provide an alternative processing/disposal procedures for when facility is inoperable for more than 24hrs.	Required	330.241(c)	Yes	SOP Section 8.10, Page IV-25		Site Operating Plan
1087	Part IV	Provide procedures for washing down all working surfaces in contact with waste at least weekly or twice per week for facilities that operate continuously.	Required	330.243(a)	Yes	SOP Section 8.11, Page IV-25		Site Operating Plan
1088	Part IV	Provide procedures to ensure that wash water shall not be allowed to accumulate without proper treatment.	Required	330.243(b)	Yes	SOP Section 8.11, Page IV-25		Site Operating Plan
1089	Part IV	Provide procedures that demonstrate that wash water shall be collected & disposed of in an authorized manner.	Required	330.243(c)	Yes	SOP Section 8.11, Page IV-25 - which references SOP Section 5		Site Operating Plan
1090	Part IV	Acknowledge that air emissions from municipal solid waste facilities must not cause or contribute to a condition of air pollution as defined in the Texas Clean Air Act.	Acknowledgement	330.245(a)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1092	Part IV	Provide a description of odor-retaining containers & vessels used to store liquid and solid waste	Required	330.245(c)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1093	Part IV	Provide a description of how the facility has been designed and will be operated to provide adequate ventilation and prevent nuisance odors from leaving boundary of facility	Required	330.245(d)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan

1094	Part IV	Indicate that air pollution emission capture & abatement equipment shall be cleaned and maintained per manufacturer's recommendations and as necessary so that the equipment efficiency can be adequately maintained.	Required	330.245(e)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1095	Part IV	Provide a description of the measures/equipment, in accordance with 30 TAC §330.245(f)(1) – (4), that will be use to control odor at the facility.	Required	330.245(f)(1) – (4)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1096	Part IV	Indicate that the process areas that recover material from solid waste that contains putrescibles shall be maintained totally within an enclosed building and describe how openings to the process area shall be controlled to prevent releases of nuisance odors from leaving the property boundary of the facility.	Required	330.245(g)	Yes	N/A - as indicated in SOP Section 8.12, Page IV-26		Site Operating Plan
1097	Part IV	Provide a description of how facility shall be designed to allow a minimal time of exposure of liquid waste to the air and minimize waste contact with air during unloading of liquid waste into the facility.	Required	330.245(h)	Yes	N/A - as indicated in SOP Section 8.12, Page IV-26		Site Operating Plan
1098	Part IV	Acknowledge that the reporting of emissions events shall be made in accordance with §101.201 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements) and reporting of scheduled maintenance shall be made in accordance with §101.211 of this title (relating to Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements).	Acknowledgement	330.245(j)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1099	Part IV	Provide procedures for the control of ponded water to avoid its becoming a nuisance and alleviate any objectionable odors	Required	330.245(k)	Yes	SOP Section 8.12, Page IV-26		Site Operating Plan
1100	Part IV	Indicate that facility personnel will be trained in the appropriate sections of the facility's health and safety plan.	Required	330.247	Yes	SOP Section 8.13, Page IV-26		Site Operating Plan
1101	Part IV	Indicate that the facility shall provide potable water and sanitary facilities for all employees and visitors.	Required	330.249	Yes	SOP Section 8.14, Page IV-26		Site Operating Plan

Applicant:
Waste Management of Texas, Inc.

REGISTRATION APPLICATION

PART I and PART II – SITE AND APPLICANT INFORMATION, EXISTING CONDITIONS SUMMARY, AND CHARACTER OF THE FACILITY AND SURROUNDING LAND

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY
REGISTRATION NO. MSW-_____ [to be assigned]
AUSTIN, TRAVIS COUNTY, TEXAS

Owner and Operator:
Waste Management of Texas, Inc.

9/26/2019

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
REGISTRATION NO. F-1182

THE ABOVE P.E. SEAL APPLIES TO THIS TITLE PAGE ONLY AND IS FOR REGISTRATION PURPOSES ONLY.

WITHIN PART I AND II, THE REPORTS, PLANS, DRAWINGS, ETC. THAT REQUIRE A SIGNATURE AND SEAL BY A LICENSED PROFESSIONAL (E.G., ENGINEER, SURVEYOR) ARE SIGNED, SEALED, AND DATED, AS APPROPRIATE, BY THE RESPONSIBLE PROFESSIONAL.

Physical Site Address:
9900 Giles Road
Austin, Texas 78754
(512) 272-6245

September 2019

PART I and II TABLE OF CONTENTS
SITE AND APPLICANT INFORMATION

9/26/2019

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
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PART I APPLICATION FORM

Facility Name: Austin Community Transfer Station
Permittee/Registrant Name: Waste Management of Texas, Inc.
MSW Authorization #:PENDNG
Initial Submittal Date: 9/26/2019
Revision Date:

Texas Commission on Environmental Quality

Part I Application Form for New Permit, Permit Amendment, or Registration for a Municipal Solid Waste Facility

1. Reason for Submittal

☒ Initial Submittal ☐ Notice of Deficiency (NOD) Response

2. Authorization Type

☐ Permit ☒ Registration

3. Application Type

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

☒ New Registration

4. Application Fees

Amount

☐ $2,050 for Permits and Permit Amendments ☒ $150 for Registrations

Payment Method

☐ Check ☒ Online through ePay portal <https://www3.tceq.texas.gov/epay/>

If paid online, enter ePay Trace Number: **582EA000359216**

5. Application URL

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

☐ Yes ☒ No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.
http://**www.wm.com/wm/permits-texas/permits.jsp**

6. Application Publishing

Party Responsible for Publishing Notice:

☐ Applicant ☐ Agent in Service ☒ Consultant

Contact Name: **Scott Graves** Title: **Principal**

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: **University Hills Branch Library**

Physical Address: **4721 Loyola Ln**

City: **Austin** County: **Travis** State: **TX** Zip Code: **78723**

(Area code) Telephone Number: **512-974-9940**

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	☐	☐	☒
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) TCEQ Permit MSW-249D (Type I Landfill)	☒	☐	☐
Other (describe) TPDES Permit TXR05AJ96	☒	☐	☐
Other (describe) Title V Air O-01525; Air New Source Reg No. 85436	☒	☐	☐
Other (describe) Title IX Gas-to-Energy Reg No. 48019 Petroleum Storage Tank Reg Nos. 15649 and 78669; Industrial and Hazardous Waste SWR #s 61826 and H0249; The existing landfill facility also holds City of Austin and Travis County Development Permits	☒	☐	☐

12. General Facility Information

Facility Name: Austin Community RDF Transfer Station

Contact Name: **Charles Rivette** Title: **Director**

MSW Authorization No. (if available): **TO BE ASSIGNED**

Regulated Entity Reference No. (if issued)*: RN **# TBD**

Physical or Street Address (if available): **9900 Giles Road**

City: **Austin** County: **Travis** State: **TX** Zip Code: **78754**

(Area Code) Telephone Number: **512-272-6245**

Latitude (Degrees, Minutes Seconds): **30° 20' 02.59" N**

Longitude (Degrees, Minutes Seconds): **97° 37' 22.85" W**

Benchmark Elevation (above mean sea level): **636.049**ft.

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: **The facility is located at 9900 Giles Road, approximately 500-feet north of the intersection of Giles Road and US Highway 290 in Austin, Travis County, Texas**

Detail access routes from the nearest United States or state highway to the facility: **US 290 to Giles Road. the facility entrance is on the west side of Giles Road, approximately 500-feet north of US 290.**

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

This is a registration application for a proposed new Type V MSW facility (transfer station) that will be located within the permitted boundaries of an MSW Type I facility (namely, the Austin Community RDF, TCEQ Permit No. MSW-249D)

17. Facility Contact Information

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

Customer Reference No. (if issued)*: CN**600127856**

Contact Name: **Charles Rivette** Title: **Director**

Mailing Address: **9900 Giles Road**

City: **Austin** County: **Travis** State: **TX** Zip Code: **78754**

(Area Code) Telephone Number: **512-272-6245**

Email Address: **crivette@wm.com**

TX Secretary of State (SOS) Filing Number: **0022300000**

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

Operator Name[1]: Same as "Site Operator (Permittee/Registrant)"

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:

[1]If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".
*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

Consultant Name (if applicable): Geosyntec Consultants

Texas Board of Professional Engineers Firm Registration Number: **1182**

Contact Name: **Scott Graves** Title: **Principal**

Mailing Address: **8217 Shoal Creek Blvd, Suite 200**

City: **Austin** County: **Travis** State: **TX** Zip Code: **78754**

(Area Code) Telephone Number: **512-451-4003**

E-Mail Address: **sgraves@geosyntec.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: Austin District

District Engineer's Name: **Tucker Ferguson, P.E.**

Street Address or P.O. Box: **7901 N. I-35**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78753**

(Area Code) Telephone Number: **512-832-7000**

E-Mail Address (optional):

The Local Governmental Authority Responsible for Road Maintenance (if applicable): Travis County, TNR Road and Bridge Division

Contact Person's Name: **Supervisor, Austin East Maintenance Facility**

Street Address or P.O. Box: **8902 FM 969**

City: **Austin** County: **Travis** State: **TX** Zip Code: **78724**

(Area Code) Telephone Number: **(512) 854-9433**

E-Mail Address (optional):

City Mayor Information

City Mayor's Name: **Steve Adler**

Office Address: **301 W 2nd Street**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78701**

(Area Code) Telephone Number: **512-974-2000**

E-Mail Address (optional):

City Health Authority:[Note: Facility is within the City of Austin ETJ]

Contact Person's Name: **Dr. Mary Ann Rodriguez, Interim Medical Director/Health Authority**

Street Address or P.O. Box: **7201 Levander Loop**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78767**

(Area Code) Telephone Number: **512-972-5000**

E-Mail Address (optional):

County Judge Information

County Judge's Name: **Sarah Eckhardt**

Street Address or P.O. Box: **700 Lavaca, Suite 2.300**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78767**

(Area Code) Telephone Number: **512-854-9555**

E-Mail Address (optional):

County Health Authority: Travis County Health and Human Services

Contact Person's Name: **Sherri Fleming**

Street Address or P.O. Box: **100 N Interstate 35 Frontage Road #2000**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78701**

(Area Code) Telephone Number: **512-854-4100**

E-Mail Address (optional):

State Representative Information

District Number: **50**

State Representative's Name: **Celia Israel**

District Office Address: **P.O. Box 2910**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78768**

(Area Code) Telephone Number: **512-463-0821**

E-Mail Address (optional):

State Senator Information

District Number: **14**

State Senator's Name: **Kirk Watson**

District Office Address: **P.O. Box 12068**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78711**

(Area Code) Telephone Number: **512-463-0114**

E-Mail Address (optional):

Council of Government (COG) Name: Capital Area Council of Governments

COG Representative's Name: **Kenneth May**

COG Representative's Title: **Solid Waste Coordinator**

Street Address or P.O. Box: **6800 Burleson Road, Building 310, Suite 165**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78744**

(Area Code) Telephone Number: **512-916-6000**

E-Mail Address (optional):

River Basin Authority Name: Lower Colorado River Authority

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

Watershed Sub-Basin Name: **Lower Colorado River**

Street Address or P.O. Box: **3700 Lake Austin Boulivard**

City: **Austin** County: **Travis** State: **Texas** Zip Code: **78703**

(Area Code) Telephone Number: **512-578-3200**

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: **City of Austin (partial portion of facility boundary)**

Within Extraterritorial Jurisdiction of: **City of Austin (remaining portion of facility)**

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, Steve Jacobs, Director of Landfill Operations,
(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: _____ Date: 9-26-19

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)

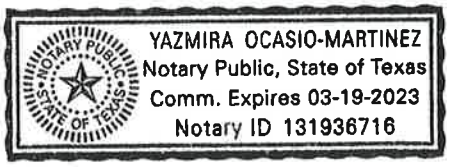
as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code 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 Steve Jacobs
On this 26 day of September 2019
My commission expires on the 19 day of March, 2023

_____
Notary Public in and for
Travis 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	**Part I / II Report**
Property Legal Description	**Appendix I / IIC**
Property Metes and Bounds Description	**Appendix I / IIC**
Facility Legal Description	**Appendix I / IIC**
Facility Metes and Bounds Description	**Appendix I / IIC**
Metes and Bounds Drawings	**Appendix I / IIC**
On-Site Easements Drawing	**Appendix I / IIC**
Land Ownership Map	**Appendix I / IIB**
Land Ownership List	**Appendix I / IIB**
Electronic List or Mailing Labels	**with Cover Letter**
Texas Department of Transportation (TxDOT) County Map	**Appendix I / IIA**
General Location Map	**Appendix I / IIA**
General Topographic Map	**Appendix I / IIA**
Verification of Legal Status	**Appendix I / IID**
Property Owner Affidavit	**Appendix I / IID**
Evidence of Competency	**Appendix I / IIE**
Additional Attachments as Applicable- Select all those apply and add as necessary	
☒ TCEQ Core Data Form(s)	**with Cover Letter**
☒ Signatory Authority Delegation	**Appendix I / IIF**
☒ Fee Payment Receipt	**with Cover Letter on App Form**
☐ Confidential Documents	
☐ Waste Storage, Processing and Disposal Ordinances	
☒ Final Plat Record of Property	**Appendix I / IIC**
☒ Certificate of Fact (Certificate of Incorporation)	**Appendix I / IID**
☐ Assumed Name Certificate	

Prepared for:
Waste Management of Texas, Inc.

REGISTRATION APPLICATION

PART I/II SUPPLEMENTAL TECHNICAL REPORT

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY
REGISTRATION NO. MSW-_____ [to be assigned]
AUSTIN, TRAVIS COUNTY, TEXAS

SEALED FOR THIS PART I/II SUPPLEMENTAL TECHNICAL REPORT, AND FOR REGISTRATION PURPOSES ONLY.

WITHIN EACH APPENDIX, ITEMS THAT REQUIRE A SIGNATURE AND SEAL BY A LICENSED PROFESSIONAL (E.G., ENGINEER, SURVEYOR) ARE SIGNED, SEALED, AND DATED, AS APPROPRIATE, BY THE RESPONSIBLE PROFESSIONAL.

Prepared by:

Geosyntec consultants
Texas Board of Professional Engineers Firm Registration No. F-1182
8217 Shoal Creek Blvd, Suite 200
Austin, Texas 78757
(512) 451-4003

September 2019

TABLE OF CONTENTS
PART I/II SUPPLEMENTAL TECHNICAL REPORT

9/26/2019

FOR REGISTRATION PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
REGISTRATION NO. F-1182

9/26/2019
STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER
FOR REGISTRATION PURPOSES ONLY

GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM
REGISTRATION NO. F-1182

TABLES

APPENDICES

WITHIN EACH APPENDIX, ITEMS THAT REQUIRE A SIGNATURE AND SEAL BY A LICENSED PROFESSIONAL (E.G., ENGINEER, SURVEYOR) ARE SIGNED, SEALED, AND DATED, AS APPROPRIATE, BY THE RESPONSIBLE PROFESSIONAL.

1. INTRODUCTION

1.1 Terms of Reference

Waste Management of Texas, Inc. (WMTX) is submitting an application to register a Type V municipal solid waste (MSW) transfer station facility. The proposed facility will be located within the permitted boundaries of an MSW Type I facility (namely, the Austin Community Recycling and Disposal Facility (RDF), TCEQ Permit No. MSW-249D) – with a registration boundary that coincides with the landfill permit boundary. The facility is located on the east side of Austin, Texas, in Travis County.

The purpose of the transfer station is to provide and efficient means to transfer MSW to local landfills after the Austin RDF landfill reaches capacity and closes. The proposed facility will provide WMTX with the ability to transfer MSW from collection vehicles to larger transfer trailers before shipment to area landfills.

The complete registration application is divided into Parts I through IV as required by 30 TAC §330.57. Part I includes the Part I Application Form, this report, and attached appendices. These materials collectively present site and applicant information to address the items required by 30 TAC §330.59; 30 TAC §281.5; and 30 TAC §305.45. Part II presents an existing conditions summary and information on the character of the facility and surrounding area. Part II has been combined with Part I, as allowed. This includes provision of a single Part I/II Supplemental Technical Report (i.e., this report), referencing and attaching as appendices, the various required informational items of Parts I and II

Part III presents facility design information, schematic designs of the facility, and required plans. Part IV presents the Site Operating Plan (SOP), which describes the general procedures for conducting day-to-day operations at the facility.

1.2 Organization of Part I/II Supplemental Technical Report

The remainder of this report is organized as follows:

- a facility description is presented in Section 2 (includes reference to maps showing the facility location and facility layout);
- the waste acceptance plan is presented in Section 3;

- property, owner, and operator information are discussed in Section 4;
- the applicability and status of other permits is addressed in Section 5, along with other applicant acknowledgements;
- a land use evaluation and discussion on the facility's potential impact on the surrounding area is addressed Section 6;
- information on transportation (roads, traffic, airports) is presented in Section 7;
- information on geologic conditions and soils is addressed in Section 8;
- information on groundwater and surface water conditions at and near the site are addressed in Section 9;
- abandonment of any oil and gas wells and water wells discovered are discussed in Section 10;
- floodplains data and wetlands are discussed in Section 11;
- information on endangered or threatened species is discussed in Section 12;
- compliance with the Texas Antiquities Code and related Texas Historical Commission documentation is addressed in Section 13; and
- documentation of council of governments review request (submitted to the Capitol Area Council of Governments (CAPCOG)) is discussed in Section 14.

Appendices to this report contain maps/drawings, data, and relevant documentation of the topics discussed in this report. The appendices are organized as follows:

- Appendix IA/II presents a series of location maps;
- Appendix I/IIB presents an adjacent land ownership map and a landowner list;
- Appendix I/IIC includes ownership-related information, including a legal description of the registration boundary;

- Appendix I/IID provides a property owner affidavit and documents the legal authority of the applicant;
- Appendix I/IIE addresses evidence of competency of the operator;
- Appendix I/IIF presents letters of appointment that define the roles of certain individuals involved in the application;
- Appendix I/IIG presents land use information;
- Appendix I/IIH provides transportation information and coordination documentation;
- Appendix I/II-I provides wetlands documentation;
- Appendix I/IIJ provides documentation on endangered and threatened species;
- Appendix IIK provides Texas Historical Commission (THC) antiquities code coordination documentation; and
- Appendix IIL provides Capitol Area Council of Governments (CAPCOG) correspondence.

2. FACILITY DESCRIPTION

This section provides information on the general facility location, to address 30 TAC §330.59(b) and (c); as well as §330.61(c), (e), (f), and (g) to show proximity to surrounding features. Facility layout, pursuant to §330.61(d) is also addressed.

2.1 Overview

As mentioned, the proposed facility will be located within the permitted boundaries of an MSW Type I facility (namely, the Austin Community RDF, TCEQ Permit No. MSW-249D) – with a registration boundary that coincides with the landfill permit boundary. As such, the registration boundary will occupy 359.71 acres. The proposed facility is located approximately 500-ft north of US Highway 290 and Giles Road, on the east side of Austin, in Travis County, Texas. It is important to note that the proposed transfer station will be relatively small in footprint compared to the overall facility boundary, occupying an area near the facility entrance and scales west of Giles Road as shown on maps and drawings included in Appendix I/IIA. The transfer station itself (i.e., the building) will be less than one acre in size. In total, the area to actually be developed for transfer station operations (the building, associated all-weather access roads and vehicle turnaround areas, approach ramps, parking, support features, etc.) will be less than approximately 10 acres. The transfer station building and area developed for transfer station operations will be located outside of the waste disposal footprints of the landfill's waste management units.

The proposed transfer station building will be a pre-engineered metal building with a roof, exterior walls, openings for collection vehicles to enter the building to unload, covered loadout areas on the sides of the building, and ancillary support features. The transfer station building will have a reinforced concrete slab tipping floor with an area of approximately 25,000 square feet, and reinforced concrete push walls to resist typical forces for transfer operations. Details on the layout of the transfer station, design features, and design criteria, are provided in the Site Development Plan (Part III) portion of the application, as required.

The transfer station will utilize the landfill's existing gate and scale house. Incoming loads will be weighed and directed to the tipping floor inside the covered transfer station building. Solid waste unloaded in this area will be pushed by a front-end loader(s) into the transfer trailers, which will haul the waste to an area landfill for disposal.

2.2 Existing Conditions Summary

The existing Austin Community RDF landfill facility, whose boundary coincides with this proposed transfer station registration facility boundary, is an active operating Type I MSW landfill, whose remaining landfill capacity is limited. The proposed transfer station will commence operations after the landfill is nearing its full capacity, and is either receiving only *de minimus* quantities of waste, or has ceased accepting waste and is in the process of being closed.

The approximately 360-acre site includes two waste management units: one approximately 64-acre unit on the eastern portion of the site ("East Hill"), and one approximately 178-acre unit on the western portion of the site ("West Hill"). The overall site also includes a closed industrial waste unit, and a portion of the closed Travis County Hwy 290 Landfill (Permit MSW-684). The waste units are shown on a facility layout plan included in Appendix I/IIA of this application, and as shown, the transfer station will be located outside of the landfill's waste disposal footprints of the waste management units.

The existing facility infrastructure includes a perimeter fence, gate house and scales, landfill office building, maintenance shop/office building, all-weather roads, soil borrow and stockpile areas, environmental monitoring systems (landfill gas and groundwater), a lined leachate evaporation pond, stormwater management features, and solid waste disposal areas. As noted, the approximately 10-acre area on the eastern portion of the site where the transfer station building and supporting operational features will be located are not within the landfill waste footprint limits. Furthermore, the area used for transfer station operation will not interfere with environmental monitoring points or landfill-related features.

2.3 Maps and Drawings

A group of maps and drawings are presented in Appendix I/IIA to show general location of the facility, proximity to surrounding features, land use of the area, etc. This appendix also includes a facility layout plan for the transfer station. As mentioned, the required transfer station process and design drawings are provided in the Site Development Plan (Part III), as required.

2.4 Adjacent Land Ownership

A map presenting the adjacent land ownership is included in Appendix I/IIB. The map shows properties within ¼-mile from the registration boundary and addresses mineral interest ownership under the facility. A land ownership list, keyed to the land ownership maps, is also provided in Appendix I/IIB. A compact disk (CD) containing the land owners list in electronic

format is provided with the original binders of this application submitted to TCEQ, at the front of the binder after the cover letter.

This information has been provided to satisfy the requirements of 30 TAC §330.59(c)(3), 30 TAC §305.45(a)(6)(D), and 30 TAC §281.5.

3. WASTE ACCEPTANCE PLAN

This section provides information on waste acceptance to address 30 TAC §330.61(b); including a description of the waste characteristics, the maximum amount of waste to be received daily and annually for five years, and other amounts and durations of, and capacity for, receipt and/or storage as detailed herein. This section also provides information on the anticipated facility service area (i.e., sources/generation areas of the waste) and population-equivalent served.

3.1 Waste Characteristics

The proposed facility is a Type V MSW facility (a transfer station). The general classifications of solid waste that may are allowed to be accepted at the transfer station, and that are prohibited from acceptance, are provided below. The classifications are waste are defined in 30 TAC §330.3.

Allowable Wastes: The facility is allowed to accept the following classifications of solid wastes, for subsequent transfer to a properly-permitted municipal solid waste landfill facility for disposal:

- household waste;
- yard waste;
- commercial waste;
- construction waste;
- demolition waste;
- brush;
- rubbish;
- Class 2 non-hazardous industrial solid waste;
- Class 3 non-hazardous industrial solid waste;
- shredded or quartered tires; and
- certain special wastes. Special waste is defined by TCEQ's solid waste regulations (30 TAC §330.3(148)). Only those certain special wastes specifically listed below are allowed to be accepted at this facility without prior written approval from the Executive Director. Further, such special waste must be compatible with the compaction and loading equipment operated at the facility or unless modifications are made to the facility to accommodate the special waste.

- Dead animals and slaughterhouse waste that are incidental to routine collection of municipal solid waste and that can be systematically processed along with other solid waste.
- Drugs, contaminated foods, or contaminated beverages, other than those contained in normal household waste.
- Empty containers which have been used for pesticides, herbicides, fungicides or rodenticides will be accepted for disposal provided the containers have been triple rinsed, crushed or rendered unusable upon receipt at the gate.
- Incidental amounts of non-regulated asbestos-containing materials (NRACM). The incidental amount is defined as the maximum of 10 percent of the waste received on an annual basis by scale weight (annual basis is defined as the latest 4 consecutive quarters).
- Waste from oil, gas, and geothermal activities subject to regulation by the Railroad Commission of Texas when those wastes are to be processed, treated, or disposed of at a solid waste management facility. Only those wastes authorized for disposal at a solid waste management facility will be accepted.
- Waste generated outside the boundaries of Texas that contains any industrial waste; any waste associated with oil, gas, and geothermal exploration, production, or development activities; or any material that is listed in the bullets above.
- Other special waste than as described above and approved for acceptance by the Executive Director.

Prohibited Wastes: The facility is prohibited from accepting, and shall not accept the following wastes:

- regulated hazardous waste;
- polychlorinated biphenyls (PCBs);
- liquid wastes;
- certain special wastes not listed above as allowable, namely:
  - hazardous waste from conditionally exempt small-quantity generators that may be exempt from full controls under Title 30 TAC Chapter 335, Subchapter N (relating to Household Materials Which Could Be Classified as Hazardous Wastes);

- Class 1 non-hazardous industrial waste;
- untreated medical waste;
- municipal wastewater treatment plant sludges, other types of domestic sewage treatment plant sludges, and water-supply treatment plant sludges;
- septic tank pumpings;
- grease and grit trap wastes;
- wastes from commercial or industrial wastewater treatment plants; air pollution control facilities; and tanks, drums, or containers used for shipping or storing any material that has been listed as a hazardous constituent in 40 CFR, Part 261, Appendix VIII but has not been listed as a commercial chemical product in 40 CFR §261.33(e) or (f);
- soil contaminated by petroleum products, crude oils, or chemicals in concentrations of greater than 1,500 milligrams per kilogram total petroleum hydrocarbons; or contaminated by constituents of concern that exceed the concentrations listed in Table 1 of 30 TAC §335.521(a)(1);
- incinerator ash;
- used oil;
- lead acid storage batteries; and
- used-oil filters from internal combustion engines.

3.2 Waste Acceptance Amounts and Storage Durations

Waste acceptance rates are tabulated below in Table I/II-1.

TABLE I/II-1
WASTE ACCEPTANCE RATES

Calendar Year	Estimated Annual Waste Acceptance Rate[(1)] (tons/year)	Estimated Daily Average Waste Acceptance Rate[(2)] (tons/day)	Maximum Amount of Solid Waste to be Received Annually (tons/year)	Maximum Amount of Solid Waste to be Received Daily (tons/day)
2020	998,400	3,200	998,400	3,200
2021	998,400	3,200	998,400	3,200
2022	998,400	3,200	998,400	3,200
2023	998,400	3,200	998,400	3,200
2024	998,400	3,200	998,400	3,200

Notes:

(1) The basis for the estimated annual waste acceptance rate is the assumption that the Austin RDF Landfill (Permit MSW-249D) is accepting *de minimus* waste quantities or is closed. The resulting transfer station rate is an estimate based on the market conditions projected to exist under this assumption.

(2) The estimated daily average waste acceptance rate is calculated by dividing the estimated annual rate by 312 days (i.e., 6-day/week operations), rounded to the nearest hundred tons. Individual daily acceptance rates are expected to fluctuate on a day-to-day basis, but will not to exceed the maximum amount allowed to be received daily).

In addition to the waste acceptance rates tabulated above, the following storage-related amounts and durations are established:

- Thus, on average, solid waste accepted at the facility will be transferred on a daily basis (i.e., remaining at the facility for less than 24-hours).

- The maximum length of time material will remain on-site is 48 hours, except holidays and weekends.

- During holidays and/or weekends, maximum length of time material will remain on-site is 72 hours.

- The maximum amount of waste that may be stored at the facility is 2,500 tons.

3.3 Facility Service Area

3.3.1 Waste Sources and Generation Areas

The facility will serve, in general, the individuals, businesses, communities, institutions, and public and private solid waste collection vehicles from waste generated in the City of Austin, Travis County, and surrounding counties.

3.3.2 Population-Equivalent Served

The average population-equivalent of areas served by the facility, using the above 5-year average daily projected waste acceptance rates and a per capita disposal rate of 5 lbs/person/day is between 1,000,000 persons in Year 1 to 1,160,000 persons in Year 5.

3.4 Facility Design Capacity

It is important to recognize that the facility, based on its size and other design attributes, has the theoretical design capacity to safe and efficiently transfer even more than the maximum amounts tabulated in Table I/II-1 on a daily (and annual) basis. For example, the transfer station has been designed with additional tipping floor area for staging and storage of waste. Table I/II-2, presented on the following page, provides a summary of the facility's theoretical design capacity, along with associated assumptions that form the basis for these calculations.

3.5 Intended Destination of Solid Waste Received at this Facility

The destination of the solid waste collected by the facility is a properly-permitted Type I municipal solid waste facility. A Type I municipal solid waste facility within approximately 50 miles or less will typically be utilized for receiving and disposal of the transferred waste.

3.6 Facility Qualification as a Registration

Per 30 TAC §330.9(b)(4), this transfer station facility qualifies for a registration because it will be located within the permitted boundaries of an MSW Type I facility (namely, the Austin Community RDF, TCEQ Permit No. MSW-249D).

TABLE I/II-2
THEORETICAL FACILITY DESIGN CAPACITY

Item	Value	Notes
Unloading		
Number of Tipping Floor Unloading Positions	6	-
Average Time to Unload a Collection Vehicle (minutes)	8	Conservative value - typically able to unload more quickly
Number of Vehicles Unloaded Per Hour, Per Position	7	Calculated as 60 minutes per hour divided by the average loading time (and rounded down to nearest whole number)
Hourly Unloading Capacity (tons/hour)	294	Calculated as number of vehicles per hour per position x number of positions x average collection vehicle capacity (i.e., 7 tons)
Daily Unloading Capacity (tons/day)	5,880	Calculated as the hourly capacity multiplied by the number of operating hours per day (assumed to be 20 hours - but not a limiting parameter of the registration)
Loadout Capacity		
Number of Transfer Trailer Loading Positions	2	-
Average Time to Load a Transfer Trailer (minutes)	15	Conservative value - typically able to transfer and loadout more quickly
Number of Vehicles Loaded Per Hour, Per Position	4	Calculated as 60 minutes per hour divided by the average loading time (and rounded down to nearest whole number)
Hourly Loadout Capacity (tons/hour)	160	Calculated as number of vehicles per hour per position x number of positions x average transfer trailer vehicle capacity (i.e., 20 tons)
Daily Loadout Capacity (tons/day)	3,200	Calculated as the hourly capacity multiplied by the number of operating hours per day (assumed to be 20 hours - but not a limiting parameter of the registration)
Theoretical Maximum Design Capacity		
The above scenario, while not particularly likely (because it assumes the transfer station is running at its peak efficiency for a 20-hour day), is used to establish the maximum design-basis transfer rate of the facility. The 20-hour day assumption is not a limiting parameter of this registration. From the above scenario, the limiting factor for determining the design capacity is the Daily Loadout Capacity plus the Available Storage to be provided. As such, the theoretical daily design capacity of the facility is: 3,200 tons/day + 2,500 tons/day = **5,700 tons/day**.		

4. PROPERTY, OWNER, AND OPERATOR INFORMATION

This section provides property and owner-related information, to address the requirements of 30 TAC §330.59(d) through (h).

4.1 Legal Description of Facility

A legal description of the transfer station registration boundary, which coincides with the facility permit boundary of an MSW Type I facility (namely, the Austin Community RDF, TCEQ Permit No. MSW-249D) is presented in Appendix I/IIC.

4.2 Property Ownership

As shown on the documentation provided in Appendix I/IIC, WMTX is the owner of the land within the 359.71 registration boundary.

Property owner affidavits and legal authority are discussed subsequently in Section 4.4 (with legal authority documentation in Appendix I/IID).

4.3 Easements

A survey of easements within the registration boundary are presented on a survey drawing in Appendix I/IIC. These easement locations are derived from the surveyor's easement research on recorded easements listed in the real property records of Travis County for the subject parcels of land. As shown, there are 11 utility easements and one temporary easement (and zero drainage or pipeline easements) within or adjacent to the overall registration boundary, but there are no easements in the area that will be occupied by the transfer station. Accordingly, no solid waste loading or storage will occur within any easement (or right of way) that crosses the facility.

4.4 Property Owner Affidavit and Legal Authority

WMTX is the owner (and operator) of the facility. WMTX is a wholly-owned subsidiary of Waste Management, Inc., a Delaware corporation based in Houston, Texas, whose shares are publicly traded on the New York Stock Exchange. No other person or entity owns more than 20 percent of the company or facility.

A signed property owner affidavit, pursuant to 30 TAC §330.59(d)(2), is presented in Appendix ID. The legal authority and status of the applicant has been verified as required by 30 TAC §330.59(e) and §281.5 and is included in Appendix I/IID.

4.5 Evidence of Competency – Facility Operator

Information demonstrating the evidence of competency of the facility operator is presented in Appendix I/IIE.

4.6 Appointment Letters

Letters that acknowledge the authorized Applicant's Agent for signing authority of the application, and that designate the Engineer, are presented in Appendix I/IIF.

5. OTHER PERMITS/AUTHORIZATIONS/ACKNOWLEDGEMENTS

5.1 Other Permits or Approvals/Authorizations

Besides this TCEQ registration application for the proposed Type V MSW facility (transfer station), other applicable facility permits, authorizations, or construction approvals are identified on the Part I Application Form.

5.2 Non-Applicable Regulatory Programs

The facility will not accept or manage hazardous or radioactive waste, perform underground injection or ocean dumping of waste, or discharge waste into waters of the U.S. Also, the facility does not propose to perform subsurface area drip dispersal. No jurisdictional wetlands will be affected. Therefore, the facility does not require any additional permits or construction approvals under the following programs.

- Hazardous Waste Management Program under the Texas Solid Waste Disposal Act;
- Underground Injection Control (UIC) Program under the Texas Injection Well Act;
- Ocean dumping permits under the Marine Protection Research and Sanctuaries Act;
- Dredge or fill permits under the Federal Clean Water Act;
- Licenses under the Texas Radiation Control Act; or
- Subsurface area drip dispersal system permits under Texas Water Code, Chapter 32.

5.3 Application Fees

On behalf of the applicant, Geosyntec Consultants has paid the $150 permit amendment application fee. The e-pay receipt confirmation number is provided on the Part I Application Form, and a copy of the payment receipt is attached to the overall application cover letter at the front of the application binder.

5.4 Internet Posting

In accordance with 30 TAC §330.57(i), a complete copy of this application will be posted (upon submittal of the application to TCEQ) to the internet at the publicly-accessible website identified (Web address link provided) on the Part I Application Form. Future revisions and supplements

to the application will be posted at the same location. The internet posting is for informational purposes only.

5.5 Other Owner/Operator Acknowledgements and Informational Items

The owner/operator acknowledges the following:

- The construction and operation of this facility must comply with Subchapter U of this 30 TAC Chapter 330 (relating to Standard Air Permits for Municipal Solid Waste Landfill Facilities and Transfer Stations), or other approved air authorizations. As indicated in the Part I Application Form, the facility has received an Air New Source Review (Standard Air Permit) Registration.

- Liquids resulting from the operation of this solid waste facility will be disposed of in a manner that will not cause surface water or groundwater pollution. The facility will provide for the treatment of wastewaters resulting from waste management activities and from cleaning and washing. The operator will ensure that storm water and wastewater management is in compliance with the regulations of the commission. As indicated in the table in the Part I Application Form, the facility has received a TPDES Storm Water Multi-Sector General Permit.

The owner/operator is providing a discussion as follows to address other general informational requirements for which they will be responsible, as indicated below.

- It is the responsibility of an owner or operator to possess the property-related rights and interests required by applicable provisions of 30 TAC §330.67.
- It is the responsibility of an owner or operator to obtain any permits or approvals that may be required by local agencies such as for building construction, discharge of uncontaminated waters into ditches under control of a drainage district, discharge of effluent into a local sanitary sewer, etc.
- The owner or operator will be aware of and meet their requirements and responsibilities associated with the public notice process for registrations, as required by applicable provisions of 30 TAC §330.69.
- The owner or operator will be aware of and meet their requirements and responsibilities associated with standard registration conditions for MSW facilities, as required by applicable provisions of 30 TAC §330.73.

6. LAND USE

6.1 Land Use Information

A land use evaluation was conducted for this project to assess the potential impact of the facility on the surrounding area. A comprehensive land use analysis was performed by Richardson Verdoorn (RVi) in 2006 for the now-approved expansion of the Austin Community RDF landfill. The RVi analysis was adopted as the baseline for the current Austin Community Transfer Station land use evaluation, updated for this registration application as appropriate. The results of the analysis are summarized in the following sections and updated with more current information where applicable. A copy of the RVi land use analysis is included in Appendix I/IIG.

Existing land uses in the area were determined using City of Austin GIS data (including land use maps), the City of Austin's Property Profile website, 2018 aerial imagery, the Texas Historical Commission's (THC's) Texas Historic Sites Atlas, and the Travis County Cemetery Project. It is also noted that at the outset of the land use evaluation, CAPCOG's Regional Solid Waste Management Plan: 2002-2022 was reviewed for information relevant to land use compatibility.

6.1.1 Zoning

The majority of the facility is located within the extraterritorial jurisdiction (ETJ) of the City of Austin in Travis County, Texas, with the easternmost portion of the existing site being within the city limits of Austin. The easternmost strip is zoned DR (development reserve) and P-CO (public, with conditional overlay). The remainder of the site is not zoned. Zoning within the two-mile radius of the site and the zoning district definitions are shown on Drawing I/IIA-10.

6.1.2 Surrounding Land Use

Overview of Surrounding Land Uses

The characteristics of the surrounding land use within a one-mile radius of the facility permit boundary was investigated, and the results show that land within the one-mile radius of the site is developed with a wide variety of commercial, industrial, residential, institutional and recreational uses. The area includes residential areas, one school, an historic site, recreational facilities, a day care, a golf course, a church, ponds (stock tanks and stormwater management ponds), and other landfills, as well as large portions of undeveloped "open" land. A "General Land Use Map" is presented on Drawing I/IIA-8, and a "Detailed Land Use Map" is presented in Drawing I/IIA-9. A "Structures and Inhabitable Buildings Map," showing buildings and inhabitable structures

within 500 feet of the site, is presented on Drawing I/IIA-12. The following table provides an approximate breakdown, by percent of total area, of the existing land uses within one mile of the facility permit boundary (see also Drawing I/IIA-8 and I/IIA-9).

TABLE I/II-3
SUMMARY OF SURROUNDING LAND USE

Land Use	Area in Acres*	Percentage of Total Area
Open	2,934	65.5
Industrial	697	15.6
Residential	577	12.9
Recreational	119	2.7
Commercial	71	1.6
Institutional	41	0.9
Water	39	0.8
Total	4,478	100

*based on 2006 RVi Land Use Analysis, examination of updated aerial imagery, and updated COA Land Use information

Directional Land Uses

A description of the surrounding land use in each direction around the site, within one mile of the facility permit boundary, is presented below.

- North. The closed Sunset Farms Landfill lies directly to the north of the site. Beyond that landfill, land use is a mix of undeveloped/agricultural and residential including a school and a day care.

- East. Land use east of the site is a mix of industrial, undeveloped, residential, recreational, and commercial. A church and a large semiconductor manufacturer are located east of the site.

- South. The closed Travis County Landfill is located directly south of the site. Beyond that landfill, across U.S. Highway 290, land use is a mix of undeveloped/agricultural, retail commercial/office, institutional, warehousing, residential, and industrial, including a pipeline terminal/fuel storage facility.

- West. Land use west of the site is largely undeveloped or residential; land is also used for miscellaneous industrial and commercial, including an event venue with an historic site (Barr Mansion).

Summary

The surrounding land use within one mile of the site is summarized below.

- There are approximately 2,402 residential units, including:
    - Approximately 1,808 single family homes; and
    - 2 multifamily properties with approximately 594 housing units.
- There are approximately 60 businesses representing a mix of commercial and industrial activity.
- Undeveloped, park/park-like, or agricultural land, which includes the following:
    - Bluebonnet Hill Golf Course;
    - Walnut Creek Nature Preserve;
    - Pioneer East Recreational Center;
    - Colonial Place recreational area;
    - Harris Branch Recreational Center and Neighborhood Park; and
    - Undeveloped/agricultural land.
- The closed Sunset Farms Landfill and the closed Travis County Landfill.
- Walnut Creek is located approximately 1,000 feet west of the site at its closest point.
- The Community Bible Fellowship Church is approximately 150 feet east of the site.
- Barr Mansion, a historic site, is located approximately 0.5 mile northwest of the site.

The total land area within a 1-mile radius is 7.0 square miles. Based on the number of housing units in the area, it is estimated that the population density within a one-mile radius of the site is about 885 people per square mile. This is estimated by assuming an average of 2.58 people per household (the average for Travis County based on the latest available 2013-2017 U.S. Census Bureau American Community Survey 5-Year Estimate [census.gov/quickfacts/fact/table/ traviscountytexas/PST045218]). Overall, the land within a one-mile radius of the facility permit boundary has a slightly lower population density than Travis County as a whole where the

average population density is about 1,034 people per square mile (based on the same 5-Year Estimate referenced above). The land within one mile of the facility permit boundary can be summarized as being a suburban area used for a mix of industrial, residential, and commercial.

6.1.3 Growth Trends and Directions of Major Development

The 2006 RVi Land Use Analysis included in Appendix I/IIG provides a detailed description of growth trends near the site. The site is located in one of the most rapidly growing sectors of the Austin metropolitan area. The five-mile radius around the facility has continued and will continue to experience substantial residential growth. From 2000 through the first half of 2006, the area within five miles increased by 6,580 households, from 49,447 households to 56,027. Much of the residential growth within five miles of the facility is occurring within major new subdivisions east of the facility, although a significant proportion is also occurring at the redevelopment site of the former Mueller airport, five miles to the southwest. Based on historical aerial imagery available since 2006, the area surrounding the site has continued to experience rapid growth.

Population growth estimates in the eight ZIP codes that make up the majority of the area within five miles of the facility permit border were made using the City of Austin's "DTI 2040 Population and Employment Forecast". Projected growth in these ZIP codes is estimated as follows:

TABLE I/II-4
REGIONAL GROWTH

ZIP code	2020 Population Forecast	2040 Population Forecast	% growth from 2020 to 2040
78754 (site is in this ZIP code)	19,975	34,727	74%
78752	25,536	37,752	48%
78753	47,114	56,769	20%
78758	56,251	69,816	24%
78723	39,282	52,638	34%
78724	22,138	34,419	55%
78653	14,759	43,371	194%

6.1.4 Proximity to Specified Uses

The aforementioned general and detailed land use maps (Drawings I/IIA-8 and I/IIA-9, respectively) show the proximity to residences and other land uses within a one-mile radius of

the facility permit boundary, and the surrounding land use was summarized in the previous subsections. The proximity to specified uses within one mile of the facility is as follows:

- Residences. Based on the 2006 RVi Land Use Analysis and a review of latest available aerial imagery (obtained in September 2019, with latest available imagery dated January 13, 2018), it is estimated that there are approximately 2,402 existing residences located within one mile of the facility. The nearest existing residence is approximately 326 feet southwest of the facility, in the Colonial Place subdivision.
- Commercial Establishments. Based on the 2006 RVi Land Use Analysis and a review of aerial imagery (obtained in September 2019, with latest available imagery dated January 13, 2018), it is estimated that there are approximately 60 businesses within one mile of the site, representing a mix of both commercial and industrial activity. However, the majority of the business activity is industrial. The nearest business, the 7-Eleven Convenience Store, is adjacent to the southern boundary of the site.
- Churches. There is one church located within one mile of the site. Namely, the Community Bible Fellowship Church is located on Giles Road, approximately 150 feet east of the site.
- Historic/Archaeologically Significant Sites. There is one historic site located within one mile of the site. The Barr Mansion is located approximately 2,400 feet northwest of the facility permit boundary on Sprinkle Road.

  Horizon Environmental Services, Inc. performed a Cultural Resources Survey in 2003 which included undisturbed portions of the Austin Community RDF site as of the date of the field assessment. The assessment concluded that there would be "no effect" to cultural resources by the proposed development. The survey was forwarded to the Texas Historical Commission ("THC") for concurrence. The THC concurred that no historic properties were affected and the project may proceed. The correspondence with the Texas Historical Commission, as well as the Cultural Resources Survey, are included in Appendix I/IIK.

  In 2019, additional coordination has occurred with THC to inform them of the proposed transfer station and request their review of the project for conformance with the Texas Antiquities Code. This documentation of coordination for this project is also included in Appendix I/IIK.

- Parks. There are five recreational areas and one golf course located within one mile of the site. Walnut Creek Nature Preserve is located approximately 0.7 mile south of the site along Walnut Creek just south of U.S. Highway 290. Harris Branch Recreational Center and Harris Branch Neighborhood Park are located approximately 0.8 mile north of the site on Farmhaven Road. Pioneer East Recreational Center is located approximately 0.9 mile northwest of the site on Samsung Boulevard. A recreational area associated with the Colonial Place development is located approximately 1,400 feet southwest of the site. The Bluebonnet Hill Golf Course (public) is located approximately 2,400 feet southeast of the site on Decker Lane.

- Schools and Day Care Centers. There is one school located within one mile of the site. The Bluebonnet Trail Elementary School is located approximately 4,823 feet northwest of the site on Farmhaven Road. There is one licensed day care facility located within one mile of the site. The Children's Courtyard is located approximately 3,445 feet northeast of the site on Harris Branch Parkway.

- Ponds and Lakes. There are scattered ponds (mostly stock tanks and stormwater management basins) located within the one-mile radius around the site. There are no lakes within one mile of the site.

- Other. There are no known sites having exceptional aesthetic quality within one mile of the facility.

6.2 Wells Within 500-Feet of the Facility

In Appendix I/IIA, drawings are included that present water well map and an oil and gas well map. These maps include a 500-ft offset line from the facility boundary, and reveal the following:

- Water Wells: There is one existing water well located outside of the facility boundary but within 500 feet of the facility. The depth of the water well is 27 feet below ground surface, and the well is designated as an irrigation well. Further, there are also no known existing water wells located within the facility boundary. Water well abandonment is discussed subsequently in Section 10.1.

- Oil and Gas Wells: There are no known oil and gas well locations outside of the facility boundary but within 500 feet of the facility. Further, there are also no known oil and gas

wells located within the facility boundary. Oil and gas well abandonment is discussed subsequently in Section 10.2.

6.3 Prevailing Wind Direction

A wind rose is included on a location map in Appendix I/IIA (see Drawing I/IIA-12). The wind rose indicates that the prevailing wind direction in the area is from the south.

6.4 Easements and Buffer Zones

6.4.1 Easements

As discussed previously in Section 4.3 of this report, there are eleven utility easements and one temporary easement (and zero drainage or pipeline easements) within or adjacent to the overall registration boundary, but there are no easements in the area that will be occupied by the transfer station. Accordingly, no solid waste loading or storage will occur within any easement (or right of way) that crosses the facility.

6.4.2 Buffer Zones

30 TAC §330.543(b) requires that a minimum 50-ft separating distance be maintained between the facility's permit boundary and solid waste storage and processing areas. The buffer zone must provide for safe passage for fire-fighting and other emergency vehicles.

The buffer zones are shown on the facility layout plan presented in Part III, Attachment 1, Drawing III-1-4). As shown, a 50-ft or greater buffer will be maintained between the transfer station and the facility permit boundary.

6.5 Conclusions Regarding Land Use

The Austin Community Transfer Station is viewed as a compatible land use for the following reasons:

1. The Austin Community RDF (landfill) has been in existence for many years (the initial MSW landfill permit for the property was issued in 1974), and solid waste management activities have been a continuous, predominant land use in the area since 1968. The transfer station operation would be a continuation of this established land use.

2. The closed Travis County Landfill and the closed Sunset Farms Landfill are located directly south and north of the site, respectively. In addition, the disposal units in Austin Community RDF will be filled to capacity and closed in the near future. The presence of these landfills further establishes the presence of waste management activities as a land use, and these nearby features will limit the ability to significantly develop or change the use of that nearby land.

7. TRANSPORTATION

7.1 Roads and Traffic

A comprehensive Transportation Study evaluating roads and traffic was performed for the Austin Community RDF for Permit MSW-249D – covering a study period through the year 2027. This process included agency coordination with the Texas Department of Transportation (TxDOT), who provided affirmation that they have "no objections" to the findings of the study that the main roads that will be used to access the site are available and adequate. Copies of the landfill Permit MSW-249D transportation study and the TxDOT coordination letters and response are provided in Appendix I/IIH of this application to serve as the basis for satisfying the following requirements for this application:

- availability and adequacy of roads that the owner or operator will use to access the site [which are the same roads for the transfer station as they were for the landfill, as studied];
- the volume of vehicular traffic on access roads within one mile of the facility, both existing and expected, during the expected life of the facility [which was studied through the year 2027]; and
- the volume of traffic expected to be generated by the facility on the access roads within one mile of the proposed facility [which, as discussed below, is greater for the landfill than will be for the transfer station].

Volume of Traffic Associated with Proposed Transfer Station:

If the transfer station were to operate at its maximum daily waste acceptance rate (consistent with the rate indicated in the waste acceptance plan in this Part I/II Supplemental Technical Report), the estimated facility-generated vehicles are tabulated in Table I/II-5 on the next page.

TABLE I/II-5
TRANSFER STATION PEAK DAILY TRAFFIC GENERATION ESTIMATE

Vehicle Type	Truck Capacity (tons)	Estimated Distribution of Waste Steam[(1)] (tons/day)	Estimated Vehicle Counts[(2)] (vehicles/day)
Collection - Rear Loader	6	700	117
Collection - Front Loader	10	2,200	220
Collection - Rolloffs	5	290	58
Private Individuals	0.25	10	40
	Subtotal	3,200	435
Transfer Trailers	25	3,200	128
Facility Personnel/Misc.	-	-	10
		Total Vehicles per Day	**573**
		Total Trips per Day	1,145

Notes:

(1) The distribution of waste stream is based on operator experience with hauling and transfer stations, and assuming a peak day (i.e., receiving waste at the maximum allowable daily rate).

(2) Vehicle counts refer to one-way trips (i.e., vehicles entering the site). To obtain the total number of vehicle trips on public roadways, the vehicle counts should be doubled (to account for vehicles both entering and leaving the facility on the same day).

(3) Vehicles for facility personnel/miscellaneous were conservatively estimated as being 10 vehicles per day (considered a conservatively high estimate).

Comparison of Transfer Station Traffic to Landfill Traffic:

The comprehensive study and traffic analysis conducted for the year 2027 for the Austin RDF Type I MSW landfill facility was based on an estimated 667 vehicles (i.e., 1,334 trips) per day.

As another point of comparison, in 2019 to-date, traffic counts from scale records at the landfill have revealed that about 490 vehicles per day cross the scales on a typical landfill operating day that receives approximately 3,500 to 4,000 tons of waste. This shows that the traffic being

experienced currently at the landfill is well below that used in the study that was the basis for Permit MSW-249D.

When the transfer station commences operation, the landfill will have (other than *de minimus* levels) ceased operations – and as such the landfill will stop generating traffic. As shown through the comparisons presented above, the daily number of vehicles (and corresponding vehicle trips in and out of the facility) will go down for the transfer station, as compared to those that were the basis of the traffic analysis for the landfill permit.

Traffic Conclusions:

For the reasons described below, this proposed facility (i.e., the transfer station) will result in diminished (i.e., lower traffic volume) traffic conditions as compared to the landfill. Therefore, it is apparent that the transfer station will have less traffic impact on surrounding roadways than the already-approved and operating landfill, and accordingly it is concluded that the roads the operator will use to access the site are available and adequate. This conclusion is based on the following rationale:

- The comprehensive Transportation Study (attached) for the landfill was for a study period through the year 2027.
- The comprehensive Transportation Study for the landfill considered the improvements to the US 290 Freeway and the Giles Road intersection. These improvements, now constructed, have improved safety and traffic flow for this intersection.
- The comprehensive Transportation Study was based on the landfill generating 667 vehicles per day (i.e., 1,334 trips per day).
- The transfer station will restrict its allowable tonnage to not exceed a maximum allowable value; using the waste hauling truck capacities, the transfer station is projected to generate no more than 573 vehicles per day (i.e., 1,145 trips).
- The distribution of transfer station traffic throughout the day is anticipated to be similar to that of the landfill. The waste vehicle types will also be similar.
- Because the transfer station will generate less volume of traffic than the landfill that was used as the basis for the comprehensive Transportation Study (which TxDOT affirmed as being acceptable), it can be reasonably concluded that the proposed transfer station will have less overall traffic impact, and that the roads used to access the site are available and adequate.

A new coordination letter has been submitted to TxDOT for this proposed transfer station (see Appendix I/IIH), requesting their review and concurrence of these findings.

7.2 Airports

An airport map which presents the current edition of the Federal Aviation Administration (FAA) Sectional Aeronautical Chart for the area, identifies the site location, and shows a six-mile offset radius from the facility permit boundary, is provided in Appendix I/IIA. As shown, there is one small public-use airport within six miles of the facility: the Austin Executive Airport (formerly known as the Bird's Nest Airport), located approximately 5.1 miles northeast of the facility. A small private-use airport, the Dryden Airport, is located approximately 4.2 miles south of the facility. As additional information, it is noted that the nearest large, public/commercial use airport is Austin-Bergstrom International Airport (ABIA), which is more than 8.2 miles south of the facility.

Because the proposed transfer station is located much more than 10,000 feet from the end of any airport runway, a demonstration of airport safety per 30 TAC §330.545(a) is not required. Furthermore, because the proposed transfer station is not a "landfill unit" or "lateral expansion" of a landfill unit, the FAA and airport notifications for landfills within a six-mile radius of an airport (or five-mile radius of any large commercial airport runways), per 30 TAC §330.545(b), are not applicable.

The transfer station will manage solid waste indoors, within a single-story building with a roof, of a height much lower than surrounding terrain. Therefore, no adverse impacts to air traffic or airport safety will be created by transfer station operation.

8. GENERAL GEOLOGY AND SOILS STATEMENT

8.1 Geology

The site is underlain by the Upper Cretaceous age Taylor Group. The Taylor Group consists of massive beds of shale and marl, with clayey chalk, clay, sand, and some nodular and phosphatic zones. Beneath the site, the upper portion of the Taylor is composed of weathered montmorillonite clay with high shrink/swell potential. The clay is generally hard and occasionally contains shell fragments. Underlying the weathered material is the unweathered Taylor Group, which in the site area is composed of calcareous claystone. The top if this unit is most often encountered between 20 and 50 ft below ground surface. Below the claystone is an unweathered marl layer. Based on regional data, the base of the Taylor Group in the site area is at a depth of approximately 700 ft below ground surface [Golder Associates, Permit Amendment Application, Austin Community Recycling & Disposal Facility, January 2008].

Underlying the Taylor Group is the Austin Chalk, which consists of massive beds of chalk and marl with bentonitic seams, glauconite, and pyrite nodules. The Austin Chalk is approximately 400-ft thick. Below the Austin Chalk are the Eagle Ford Group, Buda Limestone, and Del Rio Clay, which have a combined thickness of approximately 150 feet. Underlying those units are the Edwards and associated limestones, which have a thickness of approximately 300-ft. The base of the Edwards and associated limestones is approximately 1,600 feet below ground surface [Golder Associates, Permit Amendment Application, Austin Community Recycling & Disposal Facility, January 2008].

8.2 Topography and Soils

The site is located in Travis County, Texas. The topography of Travis County decreases from west to east, with the greatest change in relief associated with the inactive Balcones Fault Zone. The Balcones Fault Zone divides Travis County into two physiographic provinces: the Gulf Coastal Plains to the east; and the Great Plains to the west. The Gulf Coastal Plain physiographic province is further subdivided into the Rolling Prairie Physiographic Region and the Blackland Prairie Physiographic Region. The site is located in the Blackland Prairie Physiographic Region.

The natural surface relief in the site area is towards both the Walnut Creek and Decker Creek drainage watersheds. Drainage features of the site are erosional valleys which generally transport surface water toward the southern, western, and eastern portions of the site. There is a natural drainage divide that passes through the eastern portion of the site, and the proposed

transfer station area is on the east side of this divide (with topography draining generally eastward, ultimately reaching the Decker Creek watershed). Maps showing the general site topography are included with this report in Appendix I/IIA.

Shallow soils in the eastern portion of the site (where the proposed transfer station will be located) are predominantly Heiden Series, Houston-Black Series, and Ferris-Heiden complex. The Heiden Series are well-drained clay soils that are developed in calcareous marl under a cover of grasses. The Houston-Black Series consist of deep, moderately well drained soils that have developed in calcareous marls, alluvial clays, and chalk under prairie grasses. The Ferris-Heiden soils consist of deep clay soils developed in calcareous marls.

8.3 Faults

The Balcones Fault Zone passes through the center of Travis County, from the northeast to southwest. The fault system is approximately six to eight miles wide and is located 2-3 miles west of the site. No movement has occurred along the fault since the Miocene Epoch, 12.5 to 5 million years ago.

A detailed fault study was previously prepared for the Austin RDF landfill in March 1994 by Rust Environmental and Infrastructure as part of the Subtitle D location restrictions evaluation and was evaluated and updated as needed in January 2008 by Golder Associates. From this, the nearest mapped inactive fault is located approximately 0.7 miles west of the western edge of the facility boundary (which is over 1.7 miles, or about 9,000-feet west of the proposed transfer station). There are no active faults or surface expressions of faults at the site or in the area.

8.4 Seismic Impact Zones

It is important to note that regulatory requirements regarding the siting of MSW facilities include requirements for “municipal solid waste landfill units and lateral expansions” to not be located in seismic impact zones unless certain demonstrations are made (30 TAC §330.557). For this application – a proposed transfer station – this location restriction is not applicable. However, as general information on the seismicity (or lack thereof) in the area, an evaluation was performed for this application to assess whether the facility is in a seismic impact zone, based on available United States Geologic Survey (USGS) seismic hazard maps online at: https://earthquake.usgs.gov/hazards/hazmaps/ . The results of this evaluation clearly indicate that facility is not in a seismic impact zone (i.e., an area with a 10 percent or greater probability that the maximum horizontal acceleration in lithified earth material, expressed as a percentage of the earth’s gravitational pull (g), will exceed 0.10g in 250 years).

8.5 Unstable Areas

Un unstable area assessment was previously prepared for the Austin RDF landfill as part of approved location restrictions, with the conclusion that no unstable areas exist at, or adjacent to the site. The site is situated on a substantial thickness of stiff and stable Taylor Group materials that provide a good foundation, and is underlain by bedrock terrain, not prone to differential subsidence or karst activity, not in a setting susceptible to natural or human-induced events or forces that could impair structures, and not in an area susceptible to mass movement.

9. GROUNDWATER AND SURFACE WATER STATEMENT

9.1 Groundwater

The Taylor Group, which directly underlies the site, produces only a small amount of the total groundwater used in Travis County. In the site area, groundwater in the Taylor Group primarily occurs within the weathered portions, perched on top of unweathered claystone. These clays have a relatively high shrink/swell potential, and during dry periods, desiccation cracks may form and allow precipitation to enter the formation. Perched groundwater, where present, generally moves in subdued conformity to topography following the weathered/unweathered interface. On the eastern portion of the site, where the proposed transfer station will be located, the interface slopes gently toward the east.

The first significant aquifer underlying the site is the Edwards and associated limestones, at a depth of about 1,600 feet below ground surface. The site is located east of the downdip limit of fresh to slightly saline water, and the groundwater in the Edwards beneath the site is not considered potable because of high concentrations of dissolved solids. The site is more than five (5) miles away from a recharge zone of the Edwards. At the site, the Edwards is overlain by confining units that serve as low permeability aquitards.

9.2 Surface Water

This portion of the site (where the transfer station area will be located) is located within the Gilleland Creek-Colorado River watershed of the Lower Colorado River Basin (more specifically, within the Decker Creek sub-watershed). The western portion of the site (non-transfer station areas) is located within the Walnut Creek Watershed of the Lower Colorado River Basin.

The major regional surface water features within the vicinity of the site include Ferguson Creek, Walnut Creek, Harris Branch, Gilleland Creek, Decker Creek, and Walter E. Long Lake. There are also several tributaries/branches of these creeks scattered around the vicinity of the site, along with scattered stock-tank-type ponds randomly located within a one-mile radius of the site. The general topographic maps presented in Appendix I/IIA show the streams and surface water bodies in the general site vicinity.

As mentioned, there is a natural drainage divide that passes through the eastern portion of the site, and the proposed transfer station area is on the east side of this divide (with topography draining surface water generally eastward, ultimately reaching the Decker Creek watershed).

Drainage west of this divide flows west, ultimately reaching the Walnut Creek. watershed The proposed transfer station facility will not modify the existing drainage system for the landfill.

Perimeter drainage features of the landfill are up-gradient from the proposed transfer station, which will continue to divert water around and away from the transfer station area. The Site Development Plan (Part III, Attachment 2) includes a surface water drainage report that provides additional specifics on the drainage rates and drainage design features related to the proposed transfer station.

9.3 Stormwater Permitting Under TPDES

The transfer station facility has been designed to prevent the discharge of pollutants into waters of the state of Texas or waters of the United States, as defined by the Texas Water Code and the federal Clean Water Act, respectively. Surface water from the existing landfill facility is discharged under Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector Storm Water General Permit TXR050000 (Permit No. TXR05AJ96) for Storm Water Discharges Associated with Industrial Activity.

The facility will continue to be subject to TCEQ's stormwater permit requirements under the TPDES program; and accordingly, WMTX will operate in accordance with the TPDES permit requirements of the appropriate industry sector for the transfer station, including a site-specific Storm Water Pollution Prevention Plan (SWPPP).

10. ABANDONED OIL AND WATER WELLS

Pursuant to 30 TAC §330.61(l), this section provides a description and discussion of all existing or abandoned water and oil and gas wells situated within the facility permit boundary. Previously in this report, information was presented on water and oil and gas wells within 500 feet of the proposed facility (but not within the permit boundary). The information presented is based on a TWDB and TCEQ search for water wells and an RRC search for crude oil wells, natural gas wells, and other wells associated with mineral recovery.

10.1 Water Wells Within the Facility Boundary

There are no known water wells within the facility boundary. In the event that previously unknown or abandoned water wells are discovered during development of the transfer station, the facility will provide written notification to the TCEQ executive director of their location within 30 days of their discovery; the facility shall also provide, within 30 days prior to construction, the TCEQ executive director with written certification that the well has been capped, plugged, and closed in accordance with all applicable rules and regulations of the Commission or other state agency.

10.2 Oil and Gas Wells Within the Facility Boundary

There are no known water oil and gas wells within the facility boundary. In the event that previously unknown or abandoned oil and gas wells are discovered during development of the transfer station, the facility will provide written notification to the TCEQ executive director of their location within 30 days of their discovery. The facility will also properly cap, plug, and close the wells in accordance with all applicable rules and regulations of the RRC. A copy of the plugging report will be submitted to the TCEQ executive director within 30 days after the well has been plugged.

11. FLOODPLAIN AND WETLANDS STATEMENT

11.1 Floodplains

11.1.1 Introduction and Purpose

Pursuant to 30 TAC §330.61(m)(1), this section provides data on floodplains. This section also discusses how the facility will be in compliance with the applicable provisions of the floodplain location restriction given in 30 TAC §330.547 as they pertain to transfer stations.

11.1.2 FEMA Map

With respect to mapped floodplains, the site and vicinity are part of FEMA Flood Insurance Rate Map (FIRM) Numbers 48453C0460K (January 6, 2016) and 48453C0480J(August 18, 2014). In particular, the latter FIRM covers the eastern portion of the site where the proposed transfer station will be located. This portion of the site is identified by FEMA is an "area of minimal flood hazard", and there are no mapped 100-year floodplains or floodways on or near the eastern portion of the site. The extreme western portion of the site along a Walnut Creek tributary, more than 6,800 feet away from the proposed transfer station area and in a valley of the creek, include 100-year floodplains and floodways that extend onto the western facility boundary. The FEMA-mapped 100-year flood elevations along Walnut Creek are at approximately elevation 552 feet above sea level (ft, MSL). In contrast, the proposed transfer station area is near a topographic high (drainage divide on a ridge), at approximately elevation 640 ft, MSL.

A Floodplain Map, using the FEMA FIRMs as base maps, is provided in Appendix I/IIA. As shown on the map and as discussed above, the proposed transfer station will not be in or near a 100-year floodplain.

1City of Austin Updated (Interim) 100-Year Floodplain

To assess another source of potentially-relevant floodplain delineation information, as part of this application preparation, the City of Austin's "FloodPro" map viewer tool was used to check whether the proposed transfer station area of the facility is affected (i.e., in a 100-year floodplain). The FloodPro mapping tool (http://www.ATXfloodpro.com) presents an interim 100-year floodplain based on the current 500-year floodplain, as an interim means of assessing the effects of larger storm intensities than previously thought for a given flood frequency (i.e., as presented in the National Weather Service's 2018 "Atlas 14" rainfall study).

The FloodPro map viewer tool allows a search by address, and interactive viewing of mapped floodplain areas. Using FloodPro, the information presented above based on the FEMA FIRMs was confirmed. The only difference is that the 100-year flood elevations in Walnut Creek at the extreme western part of the facility boundary are a few feet (at most) higher on the City of Austin interim maps. As noted, the proposed transfer station area is over 6,800 feet away from the western edge of the site along Walnut Creek, and more than 80-ft in elevation higher than the potential flood levels. Clearly, the proposed transfer station facility will not be impacted by a 100-year flood.

11.2 Wetlands

As required by 30 TAC §330.61(m)(2), a wetlands determination under applicable federal, state, and local laws was made for the proposed transfer station facility and adjacent areas that will be developed the support transfer station operations was made by a qualified Geosyntec ecologist.

In September 2019, Geosyntec's ecologist performed a general determination of "Waters of the US" (including wetlands). The wetlands determination consisted of a pre-field inspection desktop study, followed by a field inspection of the site. It is noted that Geosyntec's 2019 study focused on the proposed transfer station facility and adjacent areas on the eastern portion of the site that will be developed and potentially disturbed as part of the transfer station operations. The existing landfill areas of the site were beyond the scope of Geosyntec's study because a wetlands study was previously conducted for the landfill permit application, the existing landfill is operating in accordance with MSW-249D (found to be in compliance with wetlands location restrictions), and the transfer station will not be located within any landfill footprint (nor will adjacent storm water conveyances be affected).

Geosyntec's 2019 wetlands study findings presented in their environmental site assessment report are provided in Appendix I/II-I. In Geosyntec's best professional judgment, there do not appear to be any wetlands or other jurisdictional water bodies (e.g., streams) within the limits of disturbance of the proposed transfer station area. Accordingly, the demonstrations required by paragraphs (1) – (5) of 30 TAC §330.553(b) are not required.

12. PROTECTION OF ENDANGERED SPECIES

With respect to endangered and/or threatened species, this facility, and operation of this facility, must meet 30 TAC §330.551(a), which requires that a facility and the operation of a facility shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species.

Pursuant to 30 TAC §330.61(n) and §330.551, a site-specific endangered and threatened species assessment was conducted in September 2019 by a Geosyntec ecologist. The assessment included a review of state and federal reference information and a field survey for threatened or endangered species and their habitats at the proposed transfer station facility and adjacent areas that will be developed the support transfer station operations.

Geosyntec's site-specific field survey was conducted to check for listed species or suitable habitats for listed species. Geosyntec concluded that suitable habitat does not occur for any federally-listed species that could potentially occur within the County (i.e., Travis County) and that there is no critical habitat occurring for any federally listed species within the project area. Further, with respect to state-listed endangered or threatened species, no state-listed species were observed in the study area during the investigations or have been documented in the vicinity. Geosyntec's 2019 study findings are provided in Appendix I/IIJ.

In summary, Geosyntec's findings are that ongoing facility development and operation is not expected to cause or result in the destruction or adverse modification of critical habitats or contribute to the taking or harming of any endangered or threatened species.

It is noted that Geosyntec's 2019 study focused on the proposed transfer station facility and adjacent areas on the eastern portion of the site that will be developed and potentially disturbed as part of the transfer station operations. The existing landfill areas of the site were beyond the scope of Geosyntec's study because threatened/endangered species assessments were previously conducted for the landfill permit application with findings that landfill development and operation is not expected to cause or result in the destruction or adverse modification of critical habitats or contribute to the taking or harming of any endangered or threatened species, and the existing landfill is operating in accordance with MSW-249D (found to be in compliance with endangered species location restrictions). As mentioned, the transfer station will not be located within any landfill footprint.

13. TEXAS HISTORICAL COMMISSION REVIEW

As part of the previous landfill permitting activities, culminating with the current (now approved) Permit MSW-249D, the facility has been evaluated for compliance with the Natural Resources Code, Chapter 191, Texas Antiquities Code. THC performed their review for the landfill facility, and the State Historic Preservation Officer (SHPO) issued a "no effect" finding (project may proceed).

For this proposed transfer station registration application, coordination with THC has been performed to inform them of this project, and to confirm the understanding that the portion of the facility proposed for the transfer station was covered under the previous finding, or otherwise is in compliance with the Texas Antiquities Code, and may proceed.

A copy of the THC coordination letter, which also includes backup information from the previous coordination efforts, is provided with this application as Appendix I/IIK.

14. COUNCIL OF GOVERNMENTS REVIEW REQUEST

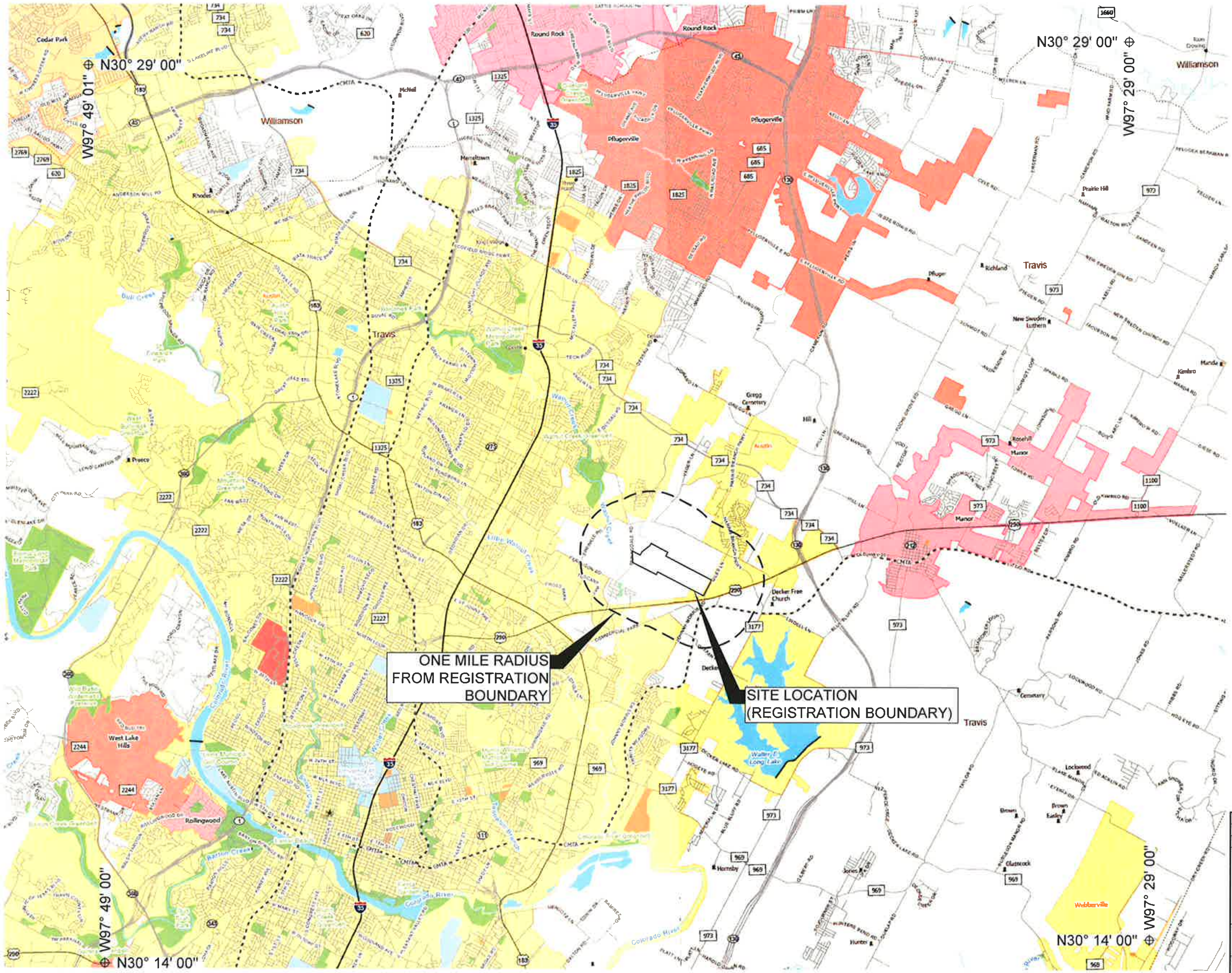
30 TAC §330.61(p) requires that the owner or operator shall submit documentation that Parts I and II of the application were submitted for review to the applicable council of governments for compliance with regional solid waste plans. The owner or operator shall also submit documentation that a review letter was requested from any local governments as appropriate for compliance with local solid waste plans. A review letter is not a prerequisite to a final determination on a permit or registration application.

The applicable council of governments for this facility location is CAPCOG. Documentation that Parts I and II of this application were submitted to CAPCOG for their review for compliance with regional solid waste plans is provided in Appendix I/IIK.

APPENDIX I/IIA

GENERAL LOCATION MAPS

LIST OF DRAWINGS		
Drawing No.	Title	Drawing Date (latest revision)
I/IIA-1	General Location Highway Map	September 2019
I/IIA-2	Detailed Highway Map	September 2019
I/IIA-3	General Topographic Map	September 2019
I/IIA-4	Aerial Photograph of Surroundings	September 2019
I/IIA-5	Site Aerial Photograph	September 2019
I/IIA-6	Facility Layout Plan	September 2019
I/IIA-7	Transfer Station Area Site Plan	September 2019
I/IIA-8	General Land Use Map	September 2019
I/IIA-9	Detailed Land Use Map	September 2019
I/IIA-10	Zoning Map	September 2019
I/IIA-11	Airport Map	September 2019
I/IIA-12	Structures and Inhabitable Buildings Map	September 2019
I/IIA-13	Water Wells Map	September 2019
I/IIA-14	Oil and Gas Wells Map	September 2019
I/IIA-15	Floodplain Map	September 2019



N

Legend

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

0 1 2
SCALE IN MILES

MAP SOURCE: TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) COUNTY MAPBOOKS 1539, 1540, 1590 AND 1591, OBTAINED ONLINE FROM THE TXDOT WEBSITE

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER
9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC

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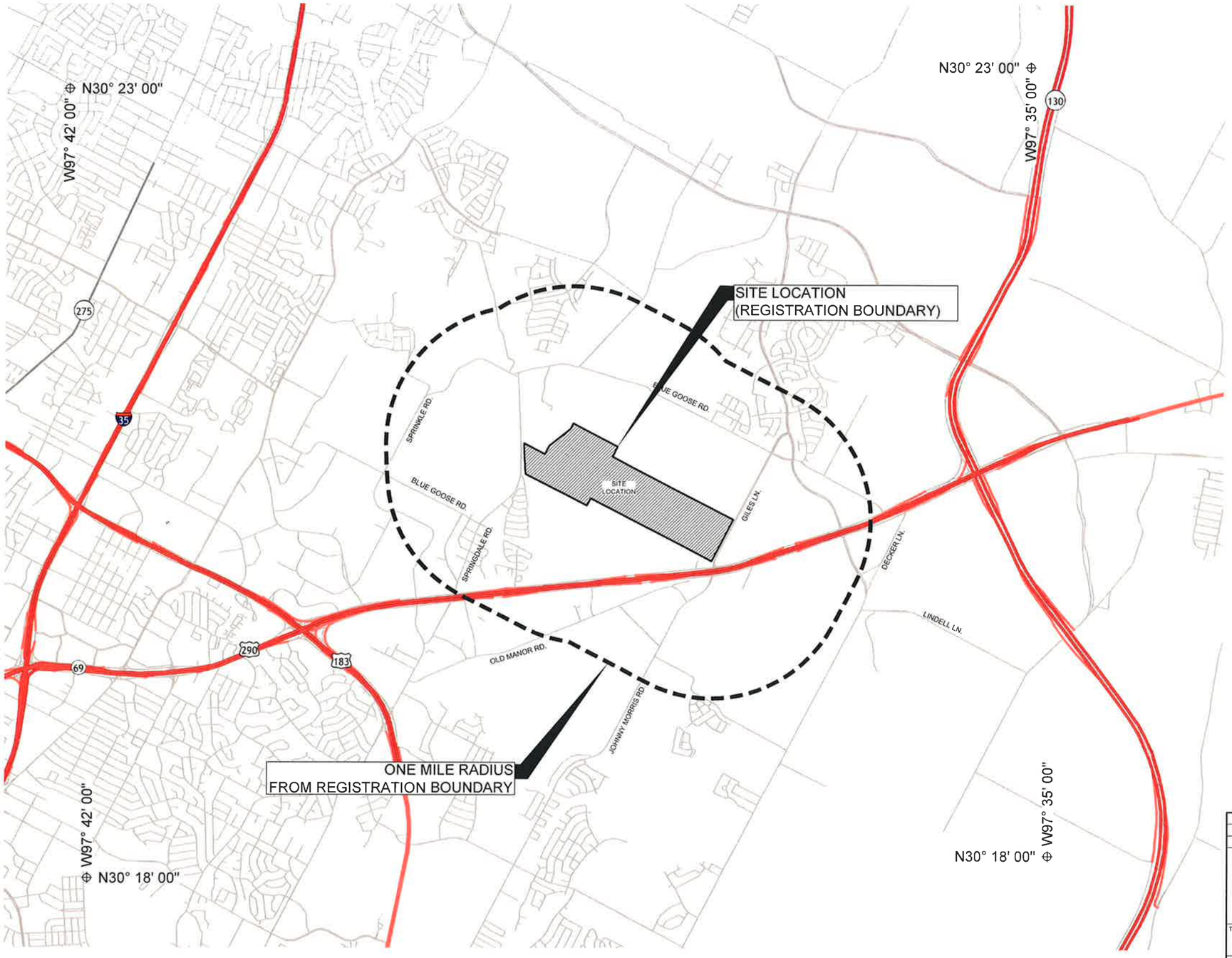
AUSTIN, TEXAS 78757
PHONE: 512 451 4003

TITLE
GENERAL LOCATION HIGHWAY MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

REGISTRATION DRAWING

PROJECT NO.: GW7107	DESIGN BY: SMG	REVIEWED BY: MC	PART NO.: I/II	DRAWING: I/IIA-1
FILE: GW7107P-1	DRAWN BY: JJV / KH	APPROVED BY: SMG		



N

0 2000 4000
SCALE IN FEET

MAP SOURCE: TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) GIS, OPEN DATA, OBTAINED ONLINE FROM THE TXDOT WEBSITE.

STATE OF TEXAS
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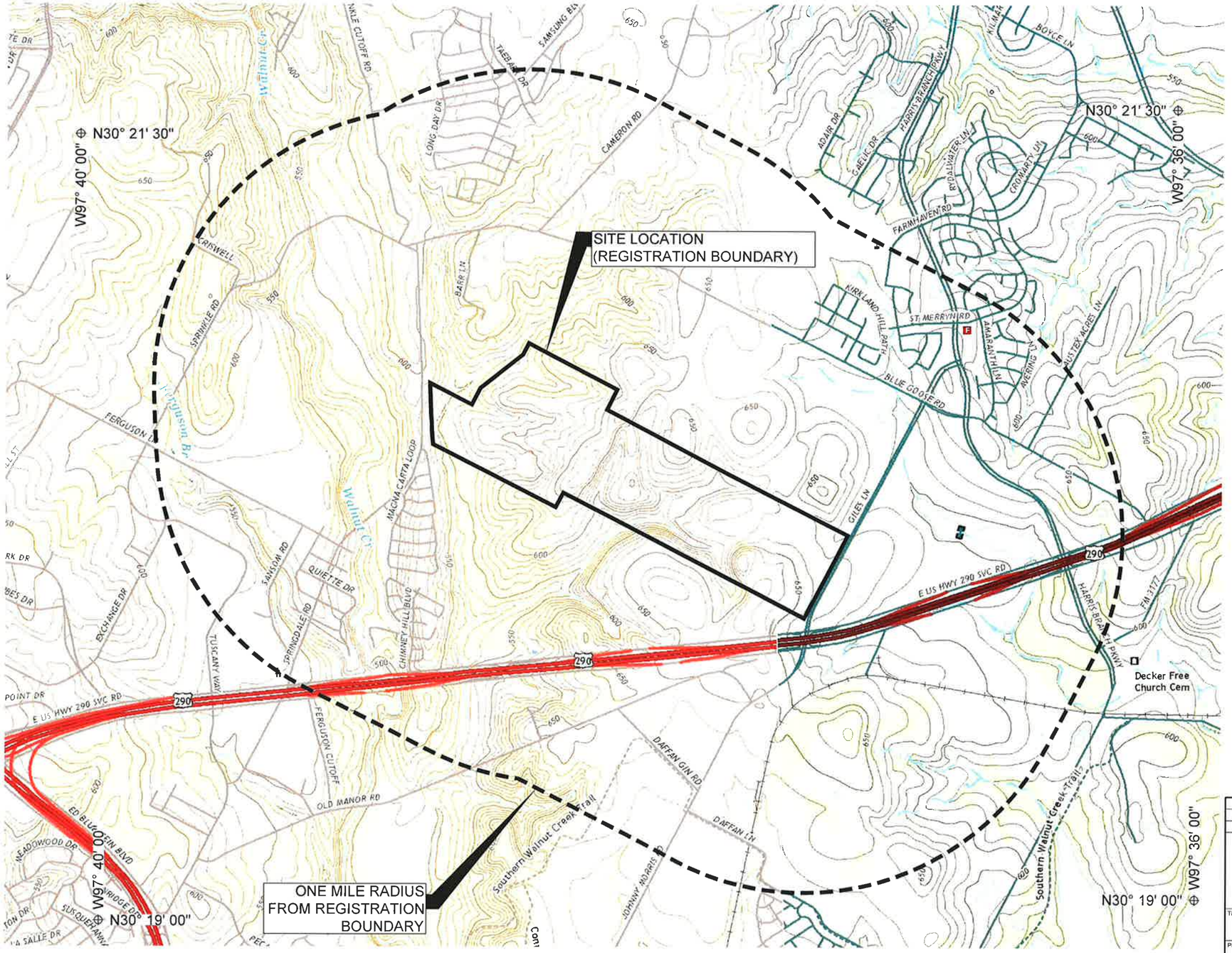
TITLE
DETAILED HIGHWAY MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO.	DRAWING
FILE	GW7107P-2	DRAWN BY	JJV / KH	APPROVED BY	SMG	I/II	I/IIA-2

REGISTRATION DRAWING



0 2000 4000
SCALE IN FEET

ROAD CLASSIFICATION

Interstate Route	State Route
US Route	Local Road
Ramp	4WD

Interstate Route · US Route · State Route

NOTES:

1. MAP SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY (USGS), 7 1/2 MINUTE SERIES QUADRANGLE TOPOGRAPHIC MAP OF EAST AUSTIN AND MANOR, TEXAS DATED 2013.

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TITLE
GENERAL TOPOGRAPHIC MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	DESIGN BY	REVIEWED BY	PART NO.	DRAWING:
GW7107	SMG	MC	I	I/IIA-3
FILE GW7107P-3	DRAWN BY: JJV / KH	APPROVED BY: SMG		

REGISTRATION DRAWING

LEGEND

- REGISTRATION BOUNDARY
- LIMIT OF EXISTING WASTE FOOTPRINTS
- ONE MILE RADIUS FROM REGISTRATION BOUNDARY

N

0 2000 4000
SCALE IN FEET

NOTE:

1. IMAGE SOURCE FROM ESRI BASE MAPS DIGITAL DATA OBTAIN IN SEPTEMBER 2019.

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9/26/2019

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REV	DATE	DESCRIPTION	DRN	APP

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TITLE
AERIAL PHOTOGRAPH OF SURROUNDINGS

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY:	SMG	REVIEWED BY:	MC	PART NO.	DRAWING:
FILE	GW7107P-10	DRAWN BY:	JJV / KH	APPROVED BY:	SMG	I/II	I/IIA-4

REGISTRATION DRAWING

J:\2019\GW7107\PROJECTS\AUSTIN COMMUNITY LANDFILL\EXHIBIT\TRANSFER STATION 2019 (DWG\MXD\PDF\GW7107P-10.DWG

N

LEGEND

- REGISTRATION BOUNDARY
- EXISTING LIMIT OF WASTE FOOTPRINTS

0 500 1000
SCALE IN FEET

NOTE:

1. IMAGE SOURCE FROM ESRI BASE MAPS DIGITAL DATA OBTAIN IN SEPTEMBER 2019.

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PHONE 512 451 4003

TITLE

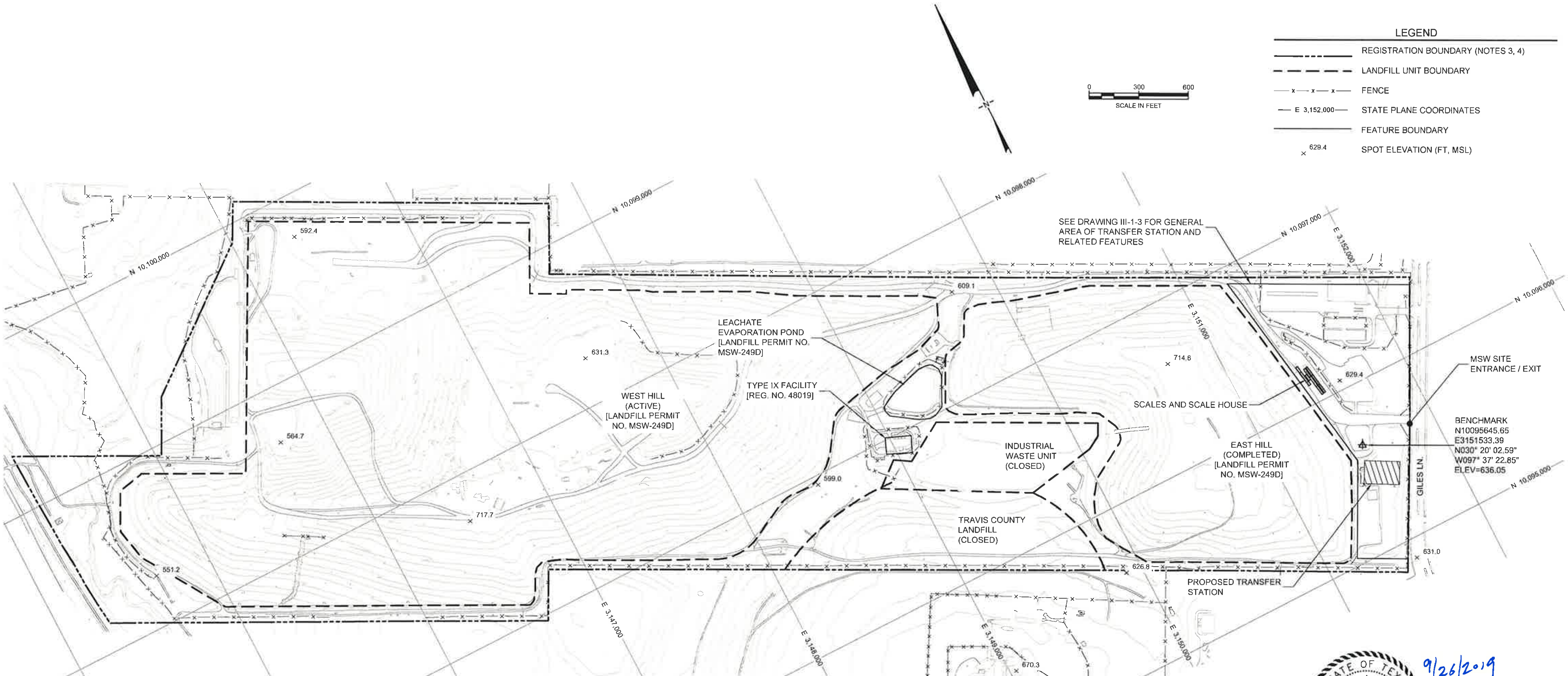
SITE AERIAL PHOTOGRAPH

PROJECT

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO	DRAWING
FILE	GW7107P-4	DRAWN BY	JJV / KH	APPROVED BY	SMG	I/II	I/IIA-5

REGISTRATION DRAWING



NOTES:

1. TOPOGRAPHIC BASE MAP BASED ON AERIAL PHOTOGRAPHY, FLOWN 20 FEBRUARY 2019 BY DAS GEOSPATIAL.
2. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (FT, MSL) AS DEFINED BY THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. COORDINATE GRID CORRESPONDS TO TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS CENTRAL ZONE (4203), NORTH AMERICAN DATUM 83 (NAD-83) 1983.
3. REGISTRATION BOUNDARY COINCIDES WITH THE TYPE I MSW FACILITY LANDFILL PERMIT BOUNDARY OF TCEQ PERMIT NO. MSW-249D.
4. THE ENTIRE FACILITY BOUNDARIES IS FENCED, AND HAS A LOCKABLE GATE AT THE MAIN SITE ENTRANCE. FENCING LOCATION IS APPROXIMATELY ALIGNED WITH THE FACILITY BOUNDARY.
5. THE ONLY WASTE STORAGE/PROCESSING AREA/UNIT ASSOCIATED WITH THE TYPE V MSW FACILITY REGISTRATION IS THE TRANSFER STATION SHOWN ON THIS DRAWING.
6. THE LIMITS OF THE INDUSTRIAL WASTE UNIT AND TRAVIS COUNTY LANDFILL ARE SHOWN AS APPROXIMATE.

STATE OF TEXAS
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PROFESSIONAL ENGINEER
9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP
0	SEP 2019	INITIAL SUBMITTAL	ACB	SMG

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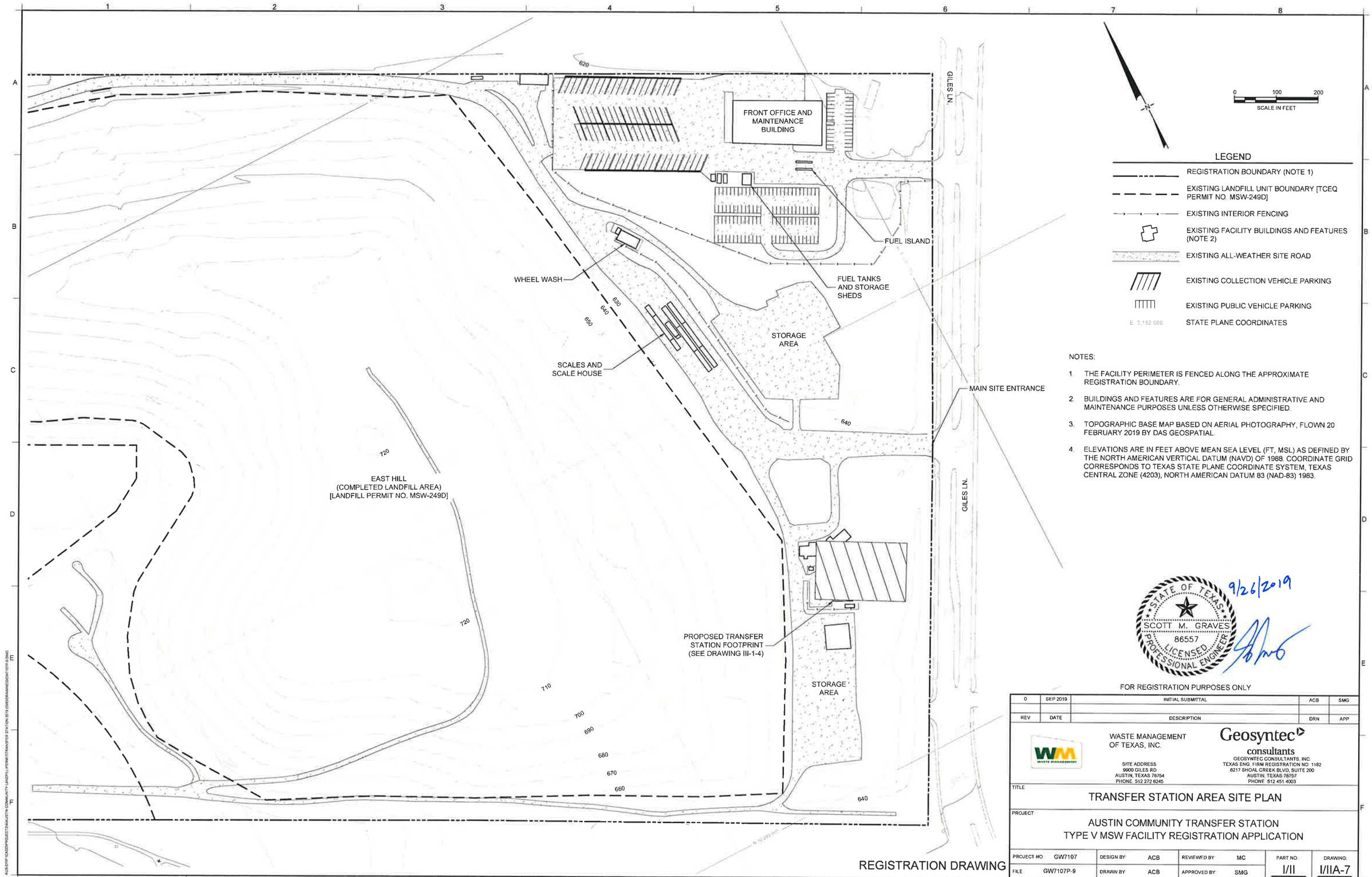
PHONE 512 451 4003

TITLE
FACILITY LAYOUT PLAN

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

REGISTRATION DRAWING

PROJECT NO	GW7107	DESIGN BY	ACB	REVIEWED BY	SMG	PART NO	DRAWING
FILE	GW7107P-7A	DRAWN BY	ACB	APPROVED BY	SMG	I/II	I/IIA-6



LEGEND

- REGISTRATION BOUNDARY (NOTE 1)
- EXISTING LANDFILL UNIT BOUNDARY [TCEQ PERMIT NO. MSW-249D]
- EXISTING INTERIOR FENCING
- EXISTING FACILITY BUILDINGS AND FEATURES (NOTE 2)
- EXISTING ALL-WEATHER SITE ROAD
- EXISTING COLLECTION VEHICLE PARKING
- EXISTING PUBLIC VEHICLE PARKING
- E 3,152,000 STATE PLANE COORDINATES

NOTES:

1. THE FACILITY PERIMETER IS FENCED ALONG THE APPROXIMATE REGISTRATION BOUNDARY.
2. BUILDINGS AND FEATURES ARE FOR GENERAL ADMINISTRATIVE AND MAINTENANCE PURPOSES UNLESS OTHERWISE SPECIFIED.
3. TOPOGRAPHIC BASE MAP BASED ON AERIAL PHOTOGRAPHY, FLOWN 20 FEBRUARY 2019 BY DAS GEOSPATIAL.
4. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (FT, MSL) AS DEFINED BY THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. COORDINATE GRID CORRESPONDS TO TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS CENTRAL ZONE (4203), NORTH AMERICAN DATUM 83 (NAD-83) 1983.

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9/26/2019

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REV	DATE	DESCRIPTION	DRN	APP
0	SEP 2019	INITIAL SUBMITTAL	ACB	SMG

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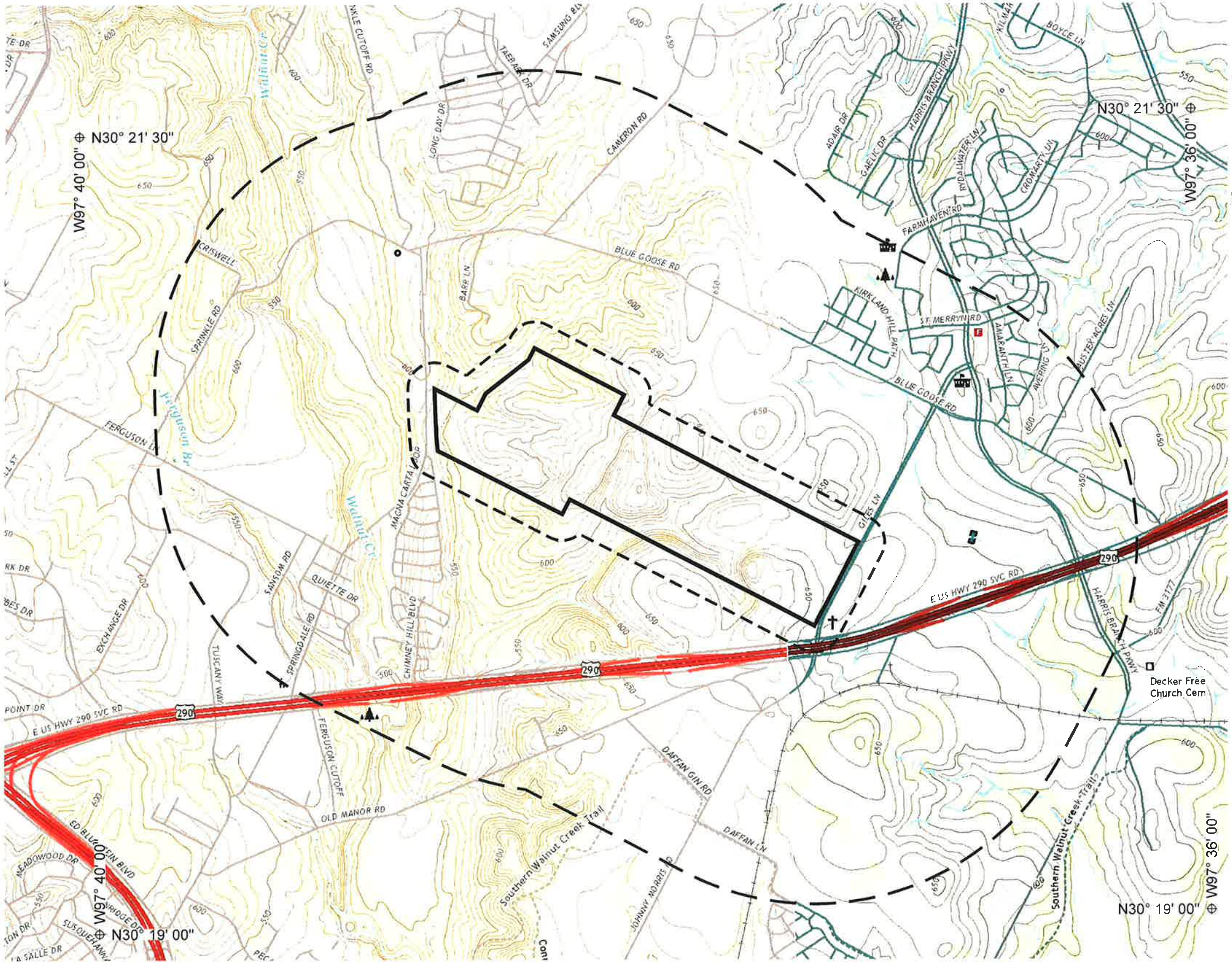
PHONE 512 451 4003

TITLE
TRANSFER STATION AREA SITE PLAN

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY	ACB	REVIEWED BY	MC	PART NO.	DRAWING:
FILE	GW7107P-9	DRAWN BY	ACB	APPROVED BY	SMG	I/II	I/IIA-7

REGISTRATION DRAWING



-N-

0	1000	2000

SCALE IN FEET

LEGEND

- REGISTRATION BOUNDARY
- ONE MILE RADIUS FROM BOUNDARY
- 500 FOOT RADIUS FROM BOUNDARY
- RELIGIOUS INSTITUTION
- SCHOOL OR DAY CARE FACILITY
- PARK (NOTE 6)
- HISTORICAL SITE (BARR MANSION)
- STREAM
- SURFACE WATER BODY

ROAD CLASSIFICATION

- Interstate Route
- US Route
- Ramp
- State Route
- Local Road
- 4WD
- Interstate Route
- US Route
- State Route

NOTES:

1. MAP SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY (USGS), 7 1/2 MINUTE SERIES QUADRANGLE TOPOGRAPHIC MAP OF EAST AUSTIN AND MANOR, TEXAS DATED 2013.
2. THERE ARE NO CEMETERIES, HOSPITALS, ARCHEOLOGICALLY SIGNIFICANT SITES, OR SITES HAVING EXCEPTIONAL AESTHETIC QUALITY WITHIN ONE MILE OF THE PERMIT BOUNDARY.
3. THERE ARE NO KNOWN SPRINGS WITHIN ONE MILE OF THE PERMIT BOUNDARY.
4. REFER TO FIGURE IIA-4 FOR AN AERIAL PHOTOGRAPH DEPICTING THE GENERAL CHARACTER OF AREAS ADJACENT TO THE FACILITY.
5. REFER TO THE PART I/ II, NARRATIVE REPORT FOR DETAILED LAND USE AND ZONING INFORMATION. BASED ON THE INFORMATION PRESENTED IN PART II, THE CHARACTER OF THE SURROUNDINGS IS DESCRIBED BY THE FOLLOWING GENERAL LAND USES:

LAND USE	PERCENT OF TOTAL AREA WITHIN ONE MILE OF FACILITY
OPEN	65.5
INDUSTRIAL	15.6
RESIDENTIAL	12.9
RECREATIONAL	2.7
COMMERCIAL	1.6
INSTITUTIONAL	0.9
WATER	0.8
TOTAL	100

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER

9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

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PHONE: 512.451.4003

TITLE: GENERAL LAND USE MAP

PROJECT: AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

REGISTRATION DRAWING

PROJECT NO.	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO.	DRAWING
FILE	GW7107P-12	DRAWN BY	JJV / KH	APPROVED BY	SMG	I/II	I/IIA-8

LEGEND OF LAND USE DESIGNATIONS (NOTE 1)

- SINGLE-FAMILY RESIDENTIAL
- MANUFACTURED / MOBILE HOME PARK
- MULTI-FAMILY RESIDENTIAL
- COMMERCIAL & OFFICE
- WAREHOUSING
- MISCELLANEOUS INDUSTRIAL
- LANDFILLS
- GOVERNMENT SERVICES
- MEETING AND ASSEMBLY
- CEMETERY
- STRUCTURE / BUILDING (HABITABLE AND INHABITABLE, COMMERCIAL, MOBILE HOME, ETC.)
- PARKS AND RECREATIONAL OPEN SPACE AREAS
- DRAINAGE WAY / STORMWATER DETENTION
- COMMON AREAS
- AVIATION FAVCILITY
- UTILITIES
- ROADS
- UNDEVELOPED
- AGRICULTURAL
- CITY LIMITS (AUSTIN)
- REGISTRATION BOUNDARY

0 1000 2000
SCALE IN FEET

NOTES:

1. BASE MAP COMPILED FROM LATEST AVAILABLE (DATED 2012 AND OBTAINED IN MARCH 2015) LAND USE MAPS AND DATA OBTAINED FROM THE CITY OF AUSTIN PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. LAND USE DESIGNATIONS ARE AS REPORTED BY THE CITY OF AUSTIN DATA AND STATISTICS FOR EACH PARCEL OF LAND.
2. THERE ARE NO CEMETERIES OR HOSPITALS IDENTIFIED WITHIN ONE MILE OF THE PERMIT BOUNDARY.

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER
9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC.
SITE ADDRESS
9900 GILES RD
AUSTIN, TEXAS 78754
PHONE 512 272 6245

Geosyntec consultants
GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG FIRM REGISTRATION NO 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE 512 451 4003

TITLE
DETAILED LAND USE MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

REGISTRATION DRAWING

PROJECT NO	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO	I/II	DRAWING	I/IIA-9
FILE	GW7107P-13	DRAWN BY	JJV / KH	APPROVED BY	SMG				

LEGEND

- ZONED: AVIATION SERVICES
- ZONED: GENERAL COMMERCIAL SERVICES
- ZONED: DEVELOPMENT RESERVE
- ZONED: COMMUNITY COMMERCIAL
- ZONED: INDUSTRIAL PARK
- ZONED: LIMITED INDUSTRIAL SERVICES
- ZONED: MULTIFAMILY-LOW DENSITY
- ZONED: PUBLIC
- ZONED: PLANNED UNIT DEVELOPMENT
- ZONED: RURAL RESIDENTIAL
- ZONED: SINGLE FAMILY-STANDARD LOT
- ZONED: FAMILY RESIDENCE
- ZONED: SINGLE FAMILY LOT
- UNZONED
- AUSTIN 2 MILE EXTRATERRITORIAL JURISDICTION (ETJ)
- CITY LIMITS (AUSTIN)
- REGISTRATION BOUNDARY
- TWO MILE RADIUS

0 1000 2000
SCALE IN FEET

NOTE:

1. BASE MAP AND ZONING DESIGNATIONS COMPILED FROM "ZONING DISTRICTS" DATA OBTAINED FROM THE CITY OF AUSTIN PLANNING AND DEVELOPMENT REVIEW DEPARTMENT IN SEPTEMBER 2019.

9/26/2019

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC.

SITE ADDRESS:
9900 GILES RD
AUSTIN, TEXAS 78754
PHONE: 512 272 6245

Geosyntec consultants
GEOSYNTEC CONSULTANTS, INC.
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8217 SHOAL CREEK BLVD, SUITE 200
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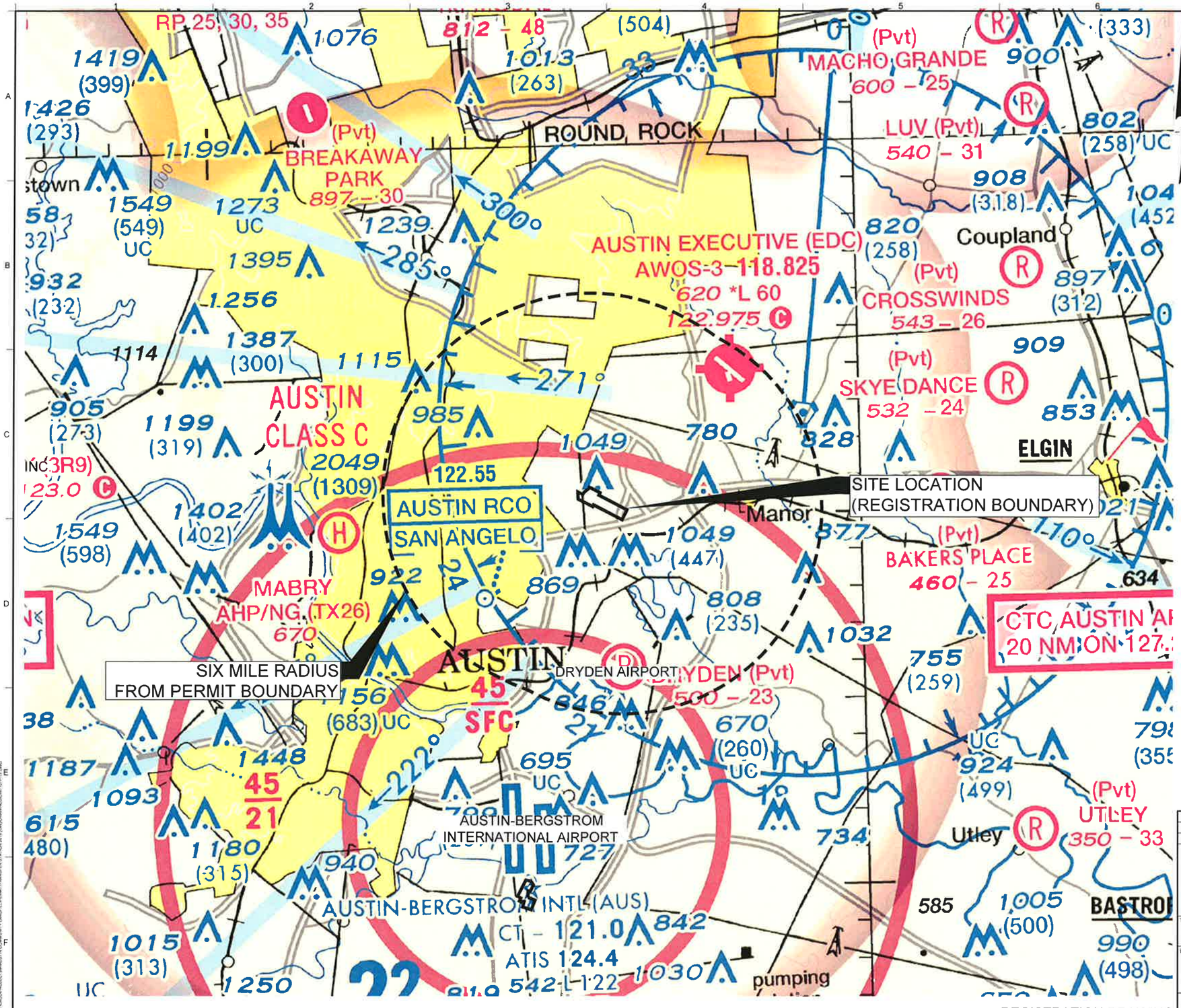
PHONE: 512 451 4003

TITLE
ZONING MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY:	SMG	REVIEWED BY:	MC	PART NO. I/II	DRAWING: I/IIA-10
FILE	GW7107P-14	DRAWN BY:	JJV / KH	APPROVED BY:	SMG		

REGISTRATION DRAWING



AIRPORTS

Other than hard-surfaced runways

Seaplane Base

Hard-surfaced runways 1500 ft. to 8069 ft. in length

Hard-surfaced runways greater than 8069 ft. or some multiple runways less than 8069 ft.

Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, or VORTAC location.

All recognizable hard-surfaced runways, including those closed, are shown for visual identification. Airports may be public or private.

ADDITIONAL AIRPORT INFORMATION

(R) Private (Pvt) = Non-public use having emergency or landmark value.

Military - Other than hard-surfaced, all military airports are identified by abbreviations AFB, NAS, AAF, etc. DoD users, for complete airport information consult DoD FLIP.

(H) Heliport Selected

(U) Unverified

(⊗) Abandoned - paved having landmark value, 3000 ft. or greater.

(F) Ultralight Flight Park Selected

Services - fuel available and field utilized during normal working hours depicted by use of ticks around basic airport symbol. (Normal working hours are Mon thru Fri 10:00 A.M. to 4:00 P.M.) Consult A/FD for service availability at airports with hard-surfaced runways greater than 8069 ft.

☆ Rotating airport beacon in operation Sunset to Sunrise

OBJECTIONABLE - Airport may adversely affect airspace use.

AIRPORT DATA

Box indicates FAR 93 Special Air Traffic Rules & Airport Traffic Patterns.

FSS — NO SVFR — FAR 91

NAME (NAM) (PNAM) — Location Identifier; ICAO Location Indicator shown outside contiguous U.S.

Runways with Right Traffic: CT 118.3 • ATIS 123.6

Patterns, public use: 285 L 72 122.95

RP * Special conditions exist see A/FD: RP 23, 34

UNICOM: VFR Advsy 125.0

AOE — Airport of Entry

FSS - Flight Service Station

NO SVFR - Pilot seeking special VFR flight is prohibited

CT - 118.3 - Control Tower (CT) - primary frequency

A - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.

(C) - Follows the Common Traffic Advisory Frequency (CTAF)

ATIS 123.8 - Automatic Terminal Information Service

ASOS/AWOS 135.42 - Automated Surface Weather Observing System (shown where full-time ATIS not available) Some ASOS/AWOS facilities may not be located at airports.

UNICOM - Aeronautical advisory station

VFR Advsy - VFR Advisory Service shown where full-time ATIS not available and frequency is other than primary CT frequency

285 - Elevation in feet.

L - Lighting in operation Sunset to Sunrise

*L - Lighting limitations exist, refer to Airport/Facility Directory

72 - Length of longest runway in hundreds of feet; usable length may be less.

When information is lacking, the responsible characters is replaced by a dash. Lighting codes refer to runway edge lights and may not represent the longest runway or full length lighting.

TOPOGRAPHIC INFORMATION

Power Transmission Line

Aerial Cable

Lookout Tower
618 (Elevation Base of Tower)

Mountain Pass
11823 (Elevation of Pass)

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

OBSTRUCTIONS

1000 ft and higher AGL

Below 1000 ft AGL

Wind Turbine

Wind Turbine Farm

Group Obstruction

Obstruction with high-intensity lights; may operate part-time

Elevation of the top above mean sea level — 2049 (1149)

Height above ground — UC

Under construction or reported; position and elevation unverified

2894' UC

NOTICE: Guy wires may extend outward from structures.

0 8000' 16000'

SCALE IN FEET

NOTE:

1. BASE MAP IS A FEDERAL AVIATION ADMINISTRATION (FAA) SECTIONAL AERONAUTICAL CHART FOR SAN ANTONIO (93RD EDITION), OBTAINED IN SEPTEMBER 2019.

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED
PROFESSIONAL ENGINEER

9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC.

SITE ADDRESS:
9900 GILES RD
AUSTIN, TEXAS 78754
PHONE: 512.272.6245

Geosyntec consultants

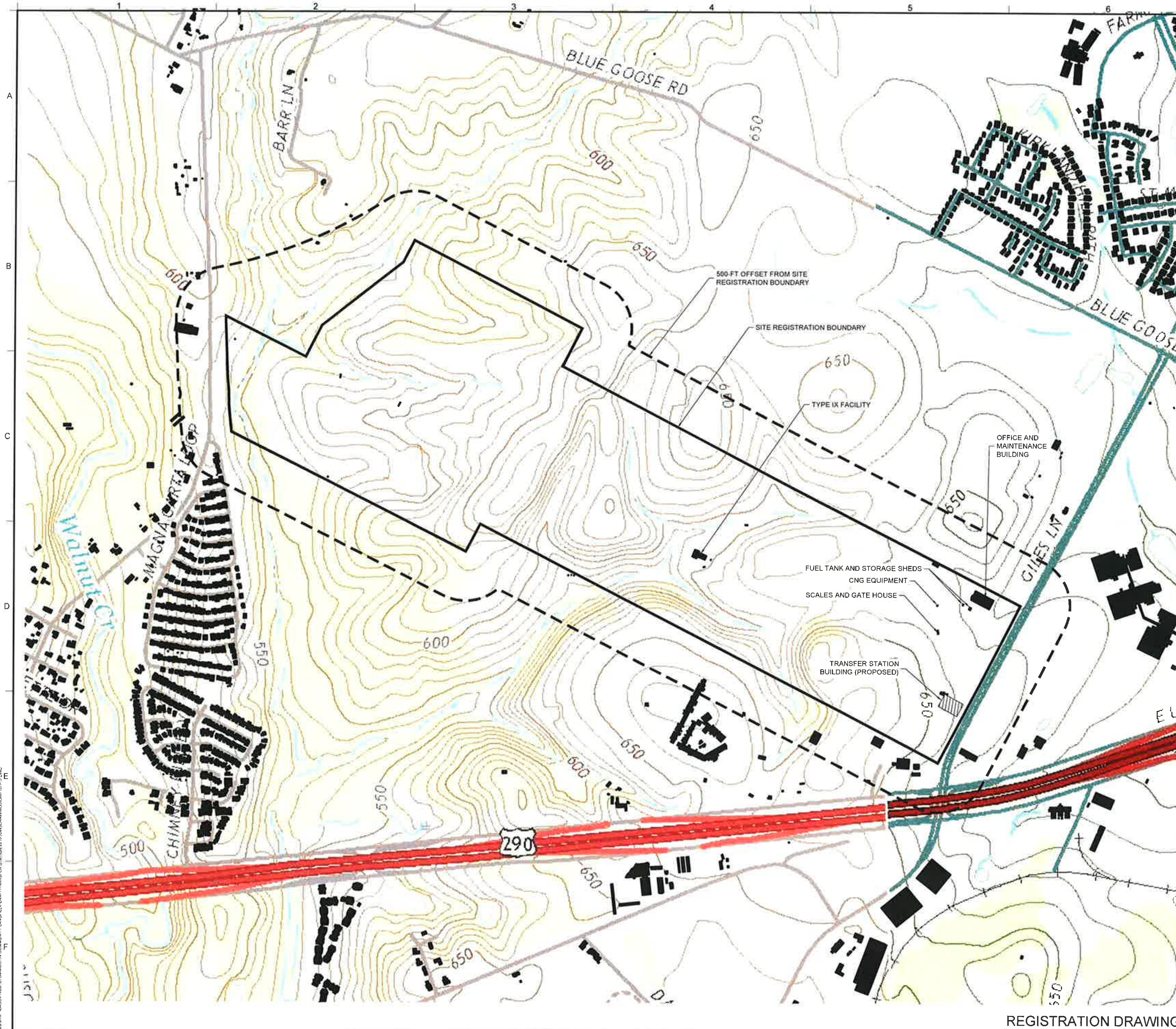
GEOSYNTEC CONSULTANTS, INC
TEXAS ENG. FIRM REGISTRATION NO. 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE: 512.451.4003

TITLE: AIRPORT MAP

PROJECT: AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	DESIGN BY	REVIEWED BY	PART NO.	DRAWING
GW7107	SMG	MC	I/II	I/IIA-11
FILE: GW7107P-15	DRAWN BY: JJV / KH	APPROVED BY: SMG		

REGISTRATION DRAWING



REGISTRATION DRAWING

LEGEND

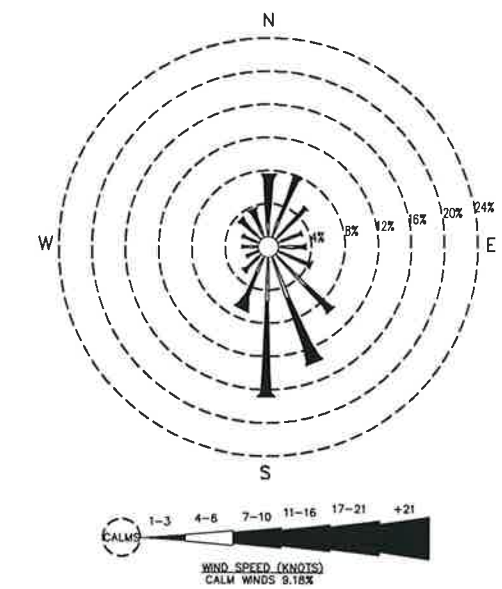
- REGISTRATION BOUNDARY
- 500 FT RADIUS FROM REGISTRATION BOUNDARY
- STRUCTURE AND INHABITABLE BUILDINGS (NOTE 3)
- STREAM
- SURFACE WATER BODY

SCALE IN FEET: 0 — 500 — 1000

ROAD CLASSIFICATION

Interstate Route | US Route | Ramp | State Route | Local Road | 4WD

Interstate Route | US Route | State Route



NOTES:

1. MAP SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY (USGS), 7 1/2 MINUTE SERIES QUADRANGLE TOPOGRAPHIC MAP OF MANOR AND AUSTIN EAST, TEXAS DATED 2016.
2. WIND ROSE SOURCE: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) FOR AUSTIN AREA, HISTORICAL PERIOD ANNUAL 1984-1992. WIND ROSE REPRESENTS AVERAGE PERCENT OF TIME WIND BLOWS FROM EACH OF THE 16 COMPASS POINTS SHOWN.
3. BUILDINGS AND INHABITABLE STRUCTURES SHOWN ON THIS DRAWING WERE OBTAINED FROM CITY OF AUSTIN ONLINE SERVICES DATA AND VERIFIED BY GEOSYNTEC USING AERIAL PHOTOGRAPHY.

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER

9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC

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8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE: 512 451 4003

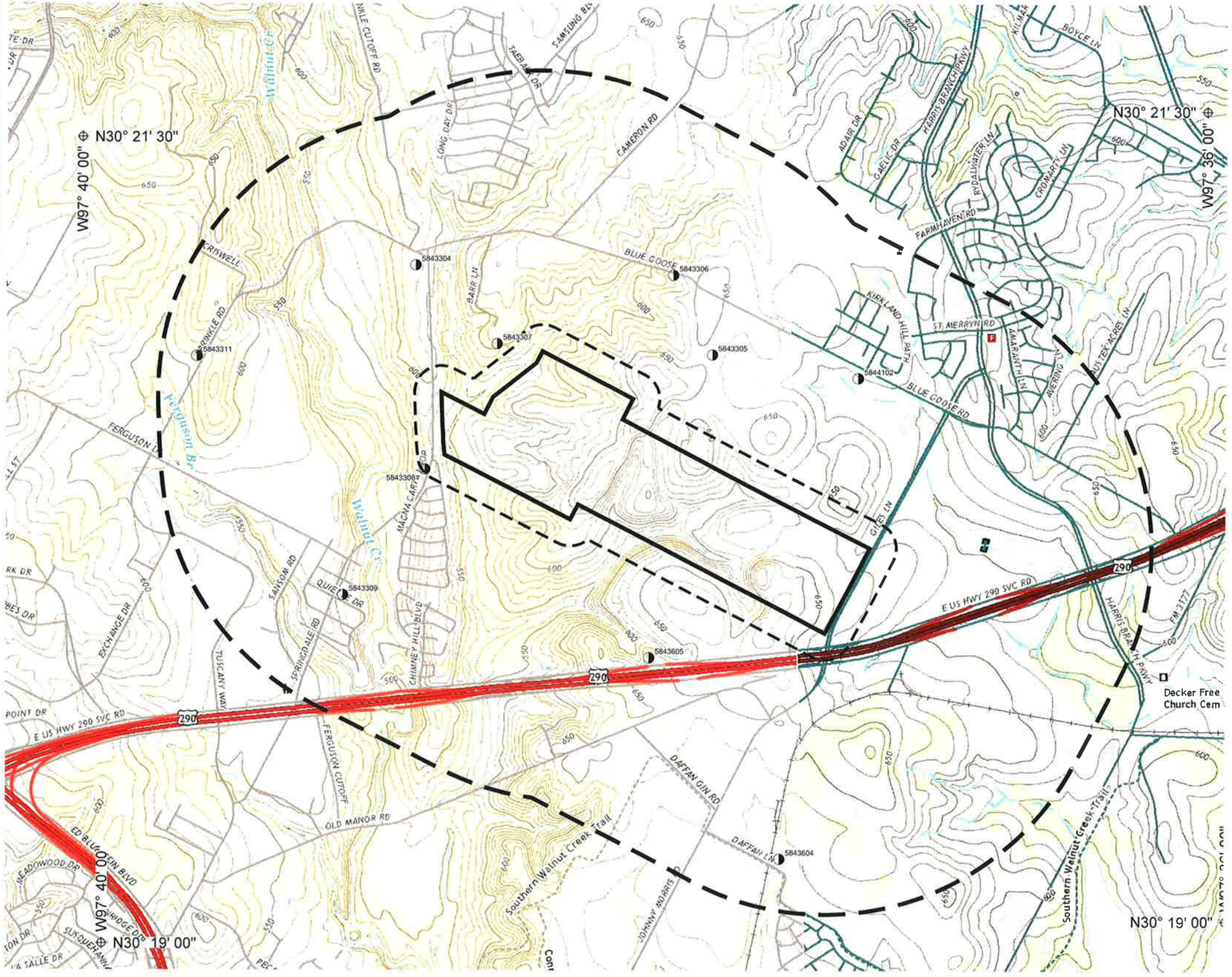
TITLE

STRUCTURES AND INHABITABLE BUILDINGS MAP

PROJECT

AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO. I/II	DRAWING I/IIA-12
FILE	GW7107P-5	DRAWN BY	JJV / KH	APPROVED BY	SMG		



LEGEND

- PERMIT BOUNDARY
- 500 FOOT RADIUS FROM PERMIT BOUNDARY
- ONE MILE RADIUS FROM PERMIT BOUNDARY
- 91976 EXISTING WATER WELL (NOTE 2)
- STREAM
- SURFACE WATER BODY

ROAD CLASSIFICATION

Interstate Route		State Route	
US Route		Local Road	
Ramp		4WD	

Interstate Route · US Route · State Route

0 1000 2000
SCALE IN FEET

SUMMARY OF WATER WELLS WITHIN 500-FT OF SITE AND ON-SITE

WELL ID (NOTE 3)	APPROXIMATE DISTANCE FROM PERMIT BOUNDARY (FT)	INSTALL DATE	DEPTH	WELL USE	FORMATION
5843308	454	1/1/1963	27	IRRIGATION	NAVARRO AND TAYLOR GROUPS
NONE ON-SITE OR WITHIN 500-FT (NOTE 3)					

NOTES:

1. MAP SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY (USGS), 7 1/2 MINUTE SERIES QUADRANGLE TOPOGRAPHIC MAP OF EAST AUSTIN AND MANOR, TEXAS DATED 2013.
2. WATER WELL LOCATIONS AND IDENTIFICATION NUMBERS AREA BASED ON A SEARCH OF PUBLICLY- AVAILABLE STATE WELL RECORDS OF THE TEXAS WATER DEVELOPMENT BOARD (TWDB) AND THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) HISTORICAL DATABASE.

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED
PROFESSIONAL ENGINEER
9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

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GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG FIRM REGISTRATION NO. 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE 512.451.4003

TITLE
WATER WELLS MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	DESIGN BY	REVIEWED BY	PART NO.	DRAWING
GW7107	SMG	MC	I/II	I/IIA-13
FILE GW7107P-6	DRAWN BY JJV / KH	APPROVED BY SMG		

REGISTRATION DRAWING

LEGEND

- PERMIT BOUNDARY
- ONE MILE RADIUS FROM PERMIT BOUNDARY
- 500 FOOT RADIUS FROM PERMIT BOUNDARY
- ▲1 EXISTING OIL AND GAS WELL (NOTE 2)
- STREAM
- SURFACE WATER BODY

N

ROAD CLASSIFICATION

Interstate Route		State Route	
US Route		Local Road	
Ramp		4WD	

Interstate Route · US Route · State Route

0 1000 2000
SCALE IN FEET

NOTES:

1. MAP SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY (USGS), 7 1/2 MINUTE SERIES QUADRANGLE TOPOGRAPHIC MAP OF EAST AUSTIN AND MANOR, TEXAS DATED 2013.
2. OIL AND GAS WELL OBTAINED FROM AVAILABLE RECORDS MADE PUBLIC BY THE RAILROAD COMMISSION OF TEXAS.
3. THERE ARE NO OIL OR GAS WELLS ON-SITE OR WITHIN 500-FT OF THE PERMIT BOUNDARY.

SUMMARY OF OIL OR GAS WELLS WITHIN 500-FT OF SITE OR ON-SITE

MAP ID	OWNER/OPERATOR	TOTAL DEPTH (FT)	DATE DRILLED	DATE PLUGGED	TYPE
NONE ON-SITE OR WITHIN 500-FT					

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED
PROFESSIONAL ENGINEER
9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC.
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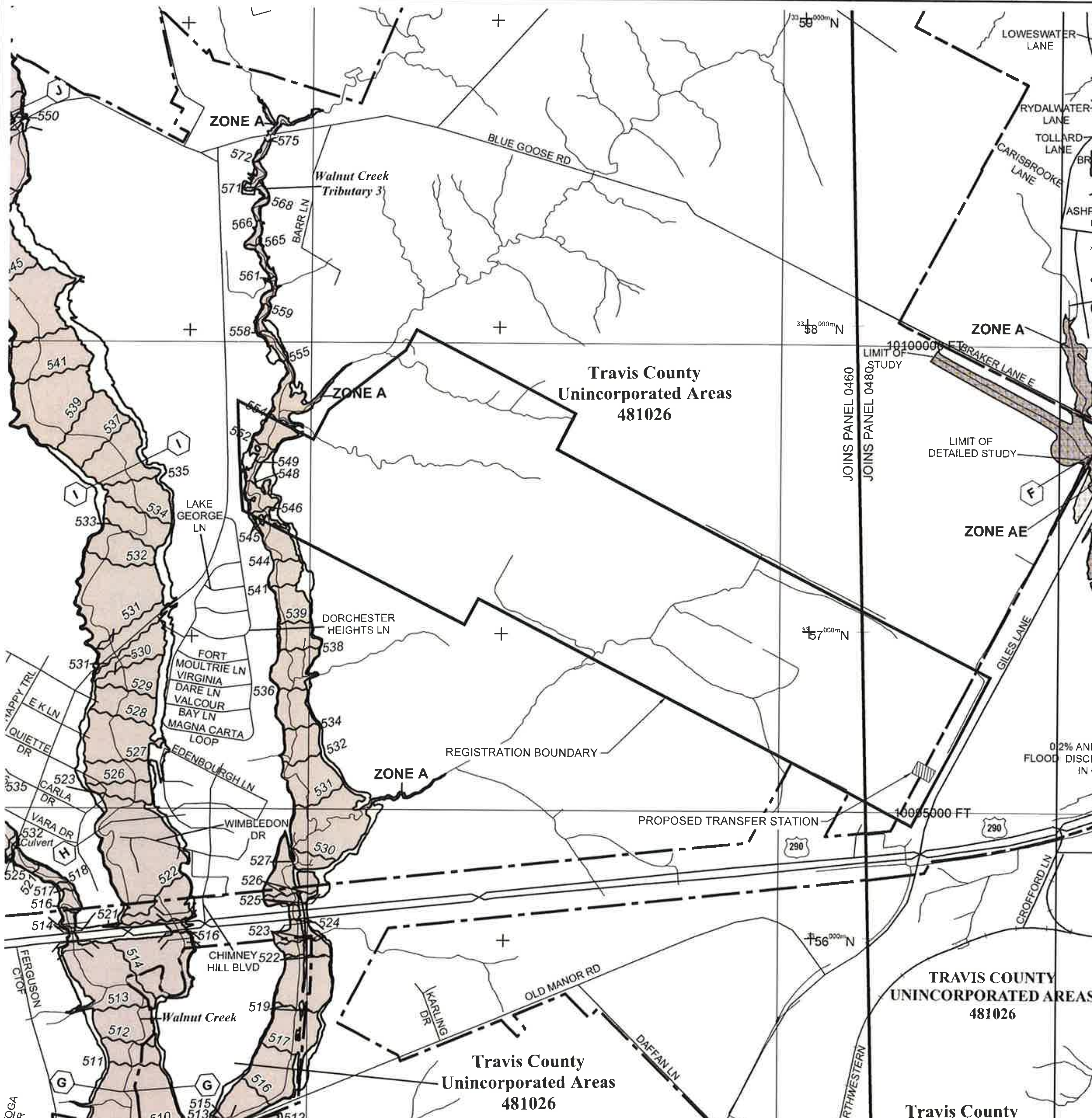
GEOSYNTEC CONSULTANTS, INC.
TEXAS ENG. FIRM REGISTRATION NO. 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE: 512.451.4003

TITLE: OIL AND GAS WELLS MAP

PROJECT: AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY:	SMG	REVIEWED BY:	MC	PART NO.	DRAWING:
FILE	GW7107P-7	DRAWN BY:	JJV / KH	APPROVED BY:	SMG	I/II	I/IIA-14

REGISTRATION DRAWING



0 600 1200
SCALE IN FEET

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 - - - 23	Transect line
	Culvert
	Bridge
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Texas State Plane Central Zone (FIPS Zone 4203), Lambert Conformal Conic projection
89 N	1000-meter Universal Transverse Mercator grid values, zone 14
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
• FT1,000	River Station

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
June 16, 1993

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
June 5, 1997 January 19, 2000 April 15, 2002 September 26, 2008 August 18, 2014
January 6, 2016 - to update corporate limits, to change Special Flood Hazard Areas to reflect updated topographic information, to incorporate previously issued Letters of Map Revision

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0460K

FIRM
FLOOD INSURANCE RATE MAP
TRAVIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 460 OF 730
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
AUSTIN, CITY OF	480624	0460	K
TRAVIS COUNTY	481026	0460	K

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48453C0460K

MAP REVISED
JANUARY 6, 2016

Federal Emergency Management Agency

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER

9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC.

SITE ADDRESS
9900 GILES RD
AUSTIN, TEXAS 78754
PHONE 512 272 6245

Geosyntec consultants
GEOSYNTEC CONSULTANTS, INC
TEXAS ENG. FIRM REGISTRATION NO 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE 512 451 4003

TITLE: FLOODPLAIN MAP

PROJECT: AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO.	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO.	I/II	DRAWING:	I/IIA-15
FILE	GW7107P-8	DRAWN BY	JJV / KH	APPROVED BY	SMG				

REGISTRATION DRAWING

APPENDIX I/IIB

ADJACENT LAND OWNERSHIP MAP AND LIST

LANDOWNER'S LIST

1 GLOBAL WORDWIDE
INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

2 CLINTON HAZEL L
9305 HAPPY TRAIL
AUSTIN, TX 78754

3 CITY OF AUSTIN
P.O. BOX 1088
AUSTIN, TX 78761-1088

4 APPLIED MATERIALS INC
RUSSELL MAGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

5 TRABEV REAL ESTATE LTD
1500 SCENIC DR APT 105
AUSTIN, TX 78703-2049

6 BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

7 BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

8 BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

9 YESCAS HUMBERTO
6802 SPRUCE GUM LN
AUSTIN, TX 78744-4946

10 BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

11 BAHRAMI BEHZAD
P.O. BOX 82653
AUSTIN, TX 78708-2653

12 7-ELEVEN INC
P.O. BOX 711
DALLAS, TX 75221-0711

LANDOWNER'S LIST

13 SUAREZ HUMBERTO
11717 PILLION PL
MANOR, TX 68653-3767

14 ROBERTSON FAMILY
290 PROPERTY LLC
3506 BONNIE RD
AUSTIN, TX 78703-2604

15 BFI WASTE SYSTEMS OF NORTH AMERICA
18500 N ALLIED WAY
PHEONIX, AZ 85054-6164

16 CENTRAL TEXAS REGIONAL MOBILTY AUTHORITY
515 CONGRESS AVE STE 2230
AUSTIN, TX 78701-3506

17 BFI WASTE SYSTEMS OF NORTH AMERICA
18500 N ALLIED WAY
PHEONIX, AZ 85054-6164

18 INDICATED AS "NULL" IN TRAVIS COUNTY APPRAISAL DISTRICT PROPERTY RECORDS

19 GLOBAL WORDWIDE INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

20 SOOTH LIMITED PARTNERSHIP
3008 DAWN DR STE 107
GEORGETOWN, TX 78628-2821

21 LAKE P FRANK TRUSTEES & LIPCO REAL ESTATE LLC
P.O. BOX 2134
AUSTIN, TX 78768-2134

22 APPLIED MATERIALS INC
RUSSELL MANGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

23 APPLIED MATERIALS INC
RUSSELL MANGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

24 FIRST CHURCH OF GOD OF AUSTIN INC
PO BOX 141005
AUSTIN, TX 78714-1005

LANDOWNER'S LIST

25 APPLIED MATERIALS INC
RUSSELL MAGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

26 APPLIED MATERIALS INC
RUSSELL MAGINEL
9700 E HIGHWAY 290
AUSTIN, TX 78724-1102

27 BROUGHER PARTNERS LTD, ETAL
1107 NUECES ST
SUITE 104
AUSTIN, TX 78701-2105

28 CITY OF AUSTIN
REAL ESTATE DIVISION
PO BOX 1088
AUSTIN, TX 78767-1088

29 WASTE MANAGEMENT
OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

30 WASTE MANAGEMENT
OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

31 Wallace H Dalton
9505 JOHNNY MORRIS RD
AUSTIN, TX 78724-1527

32 C L THOMAS HOLDINGS LLC
PO BOX 1876
VICTORIA, TX 77902-1876

33 NUMBER NOT USED

34 BFI WASTE SYSTEMS OF NORTH AMERICA LLC
18500 N ALLIED WAY
PHOENIX, AZ 85054-6164

35 AMERICA
TELECOMMUNICATIONS
GROUP INC
6633 E HWY 290 STE 312
AUSTIN, TX 78723-1111

36 BARR LANE LLC
803 CUTLASS
LAKEWAY, TX 78734-5338

LANDOWNER'S LIST

37 WASTE MANAGEMENT OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

38 WASTE MANAGEMENT OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

39 WASTE MANAGEMENT OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

40 BARR LANE LLC
803 CUTLASS
LAKEWAY, TX 78734-5338

41 NUMBER NOT USED

42 WASTE MANAGEMENT OF TEXAS INC
PO BOX 1450
CHICAGO, IL 60690-1450

43 TRAVIS RICHARD A & BRENDA S
9502 SPRINGDALE RD
AUSTIN, TX 78754-9639

44 TRAVIS RICHARD A & BRENDA S
9502 SPRINGDALE RD
AUSTIN, TX 78754-9639

45 TJFA LP
PO BOX 17126
AUSTIN, TX 78760-7126

46 WAGNER PETER & ANNA MARGARETTA RICCOBENE
9506 SPRINGDALE RD
AUSTIN, TX 78754-9639

47 TRAVIS RICHARD A & BRENDA S
9502 SPRINGDALE RD
AUSTIN, TX 78754-9639

48 TRAVIS RICHARD A & BRENDA S
9502 SPRINGDALE RD
AUSTIN, TX 78754-9639

LANDOWNER'S LIST

49 PREWITT RAYMOND A JR &
CHRISTOPHER ROBERT
CASTLEBERRY
9500 SPRINGDALE RD
AUSTIN, TX 78754-9639

50 DJR INC
PO BOX 142683
AUSTIN , TX 78714-2683

51 DJR INC
PO BOX 142683
AUSTIN, TX 78714-2683

52 GLOBAL WORLDWIDE
INTERNATIONAL LLC
3616 FAR WEST BLVD UNIT 500
AUSTIN, TX 78731-3082

53 G3 EXHIBITS LLC
304 BUCKEYE TR
AUSTIN, TX 78746-4422

54 BFI WASTE SYSTEMS OF
NORTH AMERICA INC
18500 N ALLIED WAY STE 100
PHOENIX, AZ 85054-3101

55 WALLACE H DALTON
9505 JOHNNY MORRIS RD
AUSTIN, TX 78724-1527

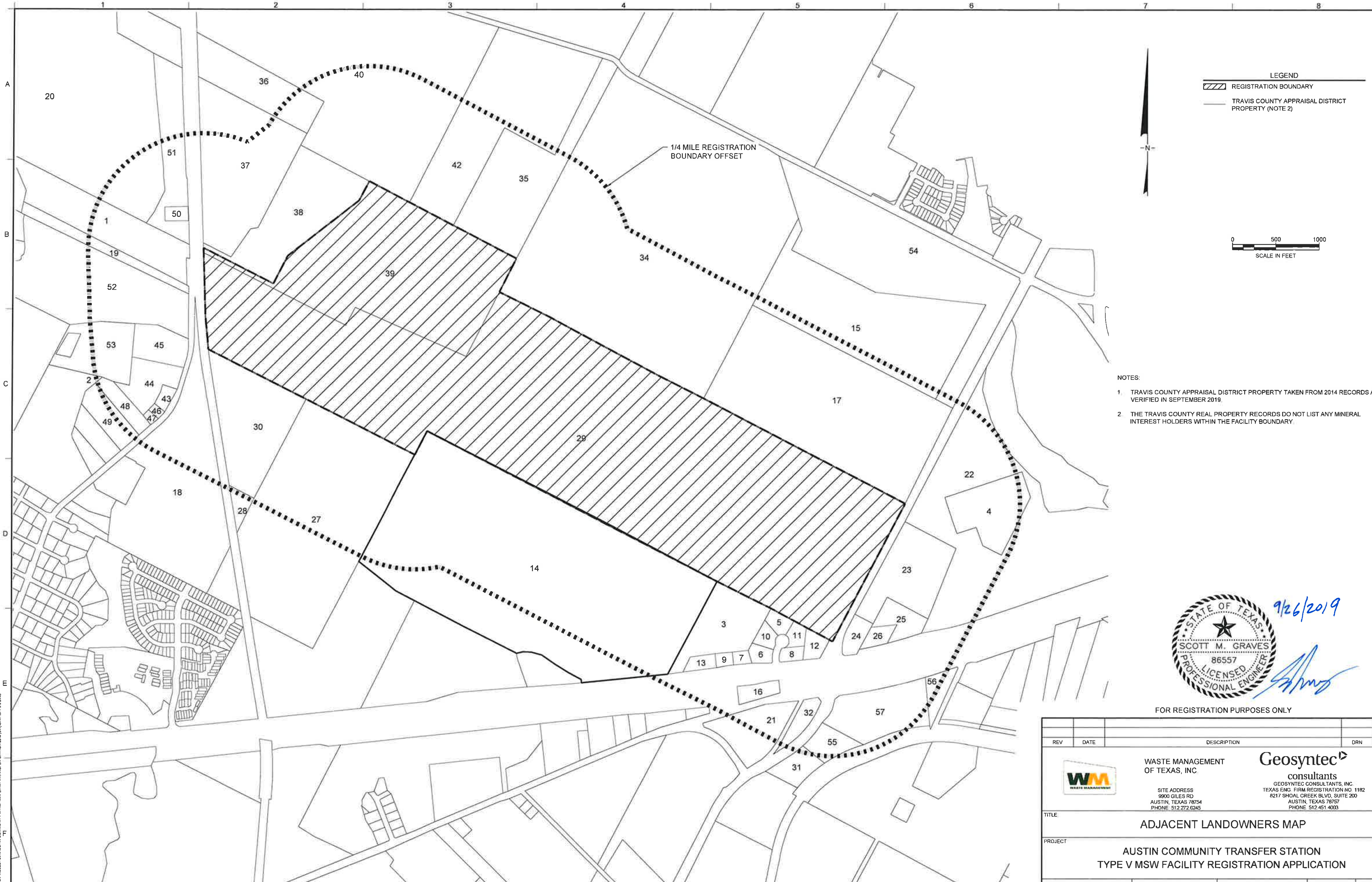
56 ROYAL BLUE PROPERTY
MANAGEMENT LLC
1881 79TH STREET CSWY APT 1801
NORTH BAY VILLAGE,
FL 33141-4275

57 WALLACE H DALTON
9505 JOHNNY MORRIS RD
AUSTIN, TX 78724-1527

LANDOWNER'S LIST

ON-SITE MINERAL INTEREST OWNER'S LIST

Mineral interest ownership under the facility was investigated by reviewing the real property appraisal records available at the Travis County Appraisal District (District) and contacting the District regarding their records. As of September 2019, mineral interest ownership information is not listed in the real property appraisal records of the District.



NOTES:

1. TRAVIS COUNTY APPRAISAL DISTRICT PROPERTY TAKEN FROM 2014 RECORDS AND VERIFIED IN SEPTEMBER 2019.
2. THE TRAVIS COUNTY REAL PROPERTY RECORDS DO NOT LIST ANY MINERAL INTEREST HOLDERS WITHIN THE FACILITY BOUNDARY.

STATE OF TEXAS
SCOTT M. GRAVES
86557
LICENSED PROFESSIONAL ENGINEER

9/26/2019

FOR REGISTRATION PURPOSES ONLY

REV	DATE	DESCRIPTION	DRN	APP

WASTE MANAGEMENT OF TEXAS, INC

SITE ADDRESS
9900 GILES RD
AUSTIN, TEXAS 78754
PHONE 512.272.6245

Geosyntec consultants
GEOSYNTEC CONSULTANTS, INC
TEXAS ENG. FIRM REGISTRATION NO. 1182
8217 SHOAL CREEK BLVD, SUITE 200
AUSTIN, TEXAS 78757
PHONE 512.451.4003

TITLE
ADJACENT LANDOWNERS MAP

PROJECT
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW FACILITY REGISTRATION APPLICATION

PROJECT NO	GW7107	DESIGN BY	SMG	REVIEWED BY	MC	PART NO	DRAWING:
FILE	GW7107-P3-6	DRAWN BY	JJV / KH	APPROVED BY	SMG	I/II	I/IIB-1

REGISTRATION DRAWING

APPENDIX I/IIC

REGISTRATION BOUNDARY, PROPERTY OWNERSHIP, AND EASEMENT INFORMATION

LEGAL DESCRIPTION OF PROPERTY AND FACILITY REGISTRATION BOUNDARY

Contents:

359.71 Acres
Lucas Munos Survey No. 55, Abstract No. 513
James O. Rice Survey No. 31
Wm. S. Hotchkiss Survey No. 32
Travis County, Texas

FN 4252(WGH)
August 7, 2006
SAM, Inc. Job No. 25168-01

METES AND BOUNDS DESCRIPTION
WASTE MANAGEMENT OF TEXAS, INC.
AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

DESCRIPTION OF A 359.71 ACRE TRACT OF LAND LOCATED IN THE LUCAS MUNOS SURVEY NO. 55, ABSTRACT NO. 513, THE JAMES O. RICE SURVEY NO. 31, AND THE WM. S. HOTCHKISS SURVEY NO. 32 SITUATED IN TRAVIS COUNTY, TEXAS, BEING A PORTION OF A CALLED 108.272 ACRE TRACT OF LAND DESCRIBED IN A DEED TO TEXAS WASTE SYSTEMS, INC., RECORDED IN VOLUME 7579, PAGE 500 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS (D.R.T.C., TX), A PORTION OF A CALLED 108.34 ACRE TRACT OF LAND DESCRIBED IN A DEED TO AUSTIN COMMUNITY DISPOSAL COMPANY, INC., RECORDED IN VOLUME 5918, PAGE 1229 D.R.T.C., TX., ALL OF A CALLED 74.12 ACRE TRACT OF LAND DESCRIBED IN A DEED TO WASTE MANAGEMENT OF TEXAS, INC., RECORDED IN VOLUME 11377, PAGE 1099 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS (R.P.R.T.C., TX.), ALL OF A CALLED BLOCK 1, LOT 3, WASTE MANAGEMENT SUBDIVISION DESCRIBED IN A DEED TO WASTE MANAGEMENT OF TEXAS, INC., RECORDED UNDER DOCUMENT NO. 200500003 OF THE OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS (O.P.R.T.C., TX) AND BEING A PORTION OF A 107.63 ACRE TRACT OF LAND DESCRIBED IN A DEED TO WASTE MANAGEMENT OF TEXAS, INC., RECORDED UNDER DOCUMENT NO. 2005066968 O.P.R.T.C., TX. THE SAID 359.71 ACRE TRACT OF LAND, AS SHOWN ON SAM INC. DWG NO. W026-25168-01, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at a concrete monument found in the west right-of-way (ROW) line of Giles Road, Document No. 2000067107, O.P.R.T.C., TX, being the southeast corner of the remainder of the said 108.34 acre tract, same being the northeast corner of the Kaye/Mark Subdivision No.1 recorded in Book 86, Page 65B-65C of the Plat Records of Travis County, Texas, for the southeast corner hereof;

THENCE, with the south line of the said 108.34 acre tract, being the north line of said Kaye/Mark Subdivision No.1, and a portion of the north line of a called 13.159 acre tract of land described in a deed to The City of Austin, recorded in Volume 5097, Page 1635, D.R.T.C., TX, N62°08'03"W, passing a 5/8-inch iron rod found at 299.49 feet, continuing past the northwest corner of the said Kaye/Mark Subdivision No.1, being the northeast corner of the said 13.159 acre tract, in all a distance of 1058.69 feet to a 1/2-inch iron rod set with a plastic cap stamped "SAM, INC.";

THENCE, continuing with said south line of the 108.34 acre tract, being said north line of the 13.159 acre tract, and the north line of the Browning & Cook Subdivision, recorded in Book 83, Pages 72A-72C, P.R.T.C., TX, N62°36'19"W, a distance of 4161.97 feet to a 1-inch iron pipe found for the southwest corner of the said 108.34 acre tract, being the northwest corner of the said Browning & Cook Subdivision tract, and being in the east line of the said 74.12 acre tract;

THENCE, with the common line between the said Browning & Cook Subdivision tract and the said 74.12 acre tract, S27°40'40"W, a distance of 312.78 feet to a 1/2-inch iron rod set with a plastic cap stamped "SAM, INC." for the southeast corner of the said 74.12 acre tract and being the northeast corner of a called 40.00 acre tract of land described in a deed to Brougher Partners, Ltd., recorded in Volume 12515, Page 1015 of the R.P.R.T.C., TX;

THENCE, with the common line between the said 40.00 acre tract and the 74.12 acre tract, N62°45'44"W, a distance of 916.23 feet to a 5/8-inch iron pipe found for the northwest corner of the said 40.00 acre tract and being the northeast corner of a called 28.78 acre tract of land described in a deed to Williams, Ltd., recorded in Volume 8339, Page 627 of the D.R.T.C., TX;

THENCE, with the common line of the said 28.78 acre tract and the said 74.12 acre tract, N63°00'18"W, a distance of 1735.17 feet to a 5/8-inch iron pipe found for the northwest corner of the said 28.78 acre tract, being the southwest corner of the said 74.12 acre tract, being in the east line of a called 219.184 acre tract of land described in a deed to The State of Texas, recorded in Volume 11339, Page 2005 of the R.P.R.T.C., TX, and being the southwest corner hereof;

THENCE, with the common line of the said 219.184 acre tract and the said 74.12 acre tract, the following five (5) courses and distances:

1. N05°58'40"W, a distance of 137.03 feet to a 5/8-inch iron pipe found,
2. N05°05'00"W, a distance of 137.64 feet to a 5/8-inch iron pipe found,
3. N00°41'56"W, a distance of 138.99 feet to a 5/8-inch iron rod found,
4. N04°51'20"W, a distance of 137.19 feet to a 5/8-inch iron pipe found, and
5. N02°00'16"W, a distance of 569.92 feet to a 5/8-inch iron rod found being the northwest corner of the said 74.12 acre tract, the southwest corner of the said 107.63 acre tract, and being the southwest corner of the said Block 1, Lot 3;

THENCE, with the common line of the said 219.184 acre tract, the said 107.63 acre tract, and the said Block 1, Lot 3, N00°07'10"E, a distance of 56.10 feet to a 5/8 –inch iron rod found for the most westerly-northwest corner hereof, being the most westerly-northwest corner of the said Block 1, Lot 3, and the most westerly-southwest corner of a called Block 1, Lot 2, Waste Management Subdivision, described in a deed to Waste Management of Texas, Inc., recorded in Document No. 200500003 of the O.P.R.T.C., TX, from which a 5/8-inch iron rod found bears with the common line of the said 219.184 acre tract and a called Block 1, Lot 1, Waste Management Subdivision, described in a deed to Waste Management of Texas, Inc., recorded in Document No. 200500003 of the O.P.R.T.C., TX, N00°44'18"W, a distance of 1013.53 feet;

THENCE, leaving the east line of the said 219.184 acre tract and crossing the said 107.63 acre tract and with the common line of the said Block 1, Lot 2 and the said Block 1, Lot 3, the following four (4) courses and distances:

1. S62°51'39"E, a distance of 901.35 feet to a 5/8-inch iron rod found for an interior corner hereof,

2. N27°02'50"E, a distance of 359.05 feet to a 5/8-inch iron rod found,

3. N51°46'08"E, a distance of 1035.62 feet to a 5/8-inch iron rod found, and

4. N27°45'31"E, a distance of 250.01 feet to a 5/8-inch iron rod found in the north line of the said 107.63 acre tract, being the northeast corner of the said Block 1, Lot 2, being the northwest corner of the said Block 1, Lot 3, and being in the south line of a called 119.38 acre tract of land described in a deed to John Allen Wilkins, recorded in Volume 9303, Page 26 of the R.P.R.T.C., TX, and being the most northerly-northwest corner hereof, from which a 5/8-inch iron pipe found bears with the common line of the said 119.38 acre tract, the said 107.63 acre tract, and the said Block 1, Lot 2, N62°13'43"W, a distance of 887.82 feet;

THENCE, with the common line between the said 107.63 acre tract, the said Block 1, Lot 3, and the said 119.38 acre tract, S62°16'39"E, a distance of 526.58 feet to a 1/2-inch iron rod found being the southeast corner of the said 119.38 acre tract and being the southwest corner of a called 40.00 acre tract of land described in a deed to Roger Joseph Properties, Ltd., recorded in Volume 10845, Page 198 of the R.P.R.T.C., TX;

THENCE, with the common line between the said 107.63 acre tract, the said Block 1, Lot 3, and the said 40.00 acre tract, S62°15'29"E, a distance of 1387.59 feet to a 5/8-inch iron rod found being the southeast corner of the said 40.00 acre tract, being the northeast corner of the said 107.63 acre tract and the said Block 1, Lot 3, and being in the west line of a called 176.10 acre tract of land described in a deed to Mobley Chemicals, Inc., recorded in Volume 7671, Page 101 of the D.R.T.C., TX;

THENCE, with the common line between the said 107.63 acre tract, the said Block 1, Lot 3, and the said 176.10 acre tract, S26°51'59"W, a distance of 432.06 feet to a 5/8-inch iron pipe found for the southwest corner of the said 176.10 acre tract and being the northwest corner of the said 108.272 acre tract;

THENCE, with the common line between the said 176.10 acre tract and the said 108.272 acre, S62°12'06"E, passing a 1/2- inch iron rod found at a distance of 1558.26, and continuing to a 1/2-inch iron rod found at a total distance of 2649.63 for the southeast corner of the said 176.10 acre tract and being the southwest corner of a called 73.20 acre tract of land described in a deed to Mobley Chemicals, Inc., recorded in Volume 7671, Page 117 of the D.R.T.C., TX;

THENCE, with the common line between the said 73.20 acre tract and the said 108.272 acre tract, S62°46'49"E, a distance of 2574.30 feet to a 1/2-inch iron rod set with a plastic cap stamped "SAM, INC." in the west right-of-way (ROW) line of Giles Road, being the southeast corner of the remainder of the said 73.20 acre tract, and the northeast corner of the remainder of the said 108.272 acre tract for the northeast corner hereof;

THENCE, with the said west ROW line as recorded in Volume 10899, Page 103 of the R.P.R.T.C., TX, and Document No. 2000067107 of the O.P.R.T.C., TX, the following three (3) courses and distances:

1. S27°14'06"W, a distance of 181.25 feet to a 1/2-inch iron rod set with a plastic cap stamped "SAM, INC.",

2. S27°02'31"W, a distance of 718.13 feet to a 1/2-inch iron rod set with plastic cap stamped "SAM, INC", being the southeast corner of the remainder of the said 108.272 acre tract and being the northeast corner of the remainder of the said 108.34 acre tract, and

3. S27°54'40"W, a distance of 899.69 feet to the **POINT OF BEGINNING,** containing 359.71 acres of land, more or less.

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

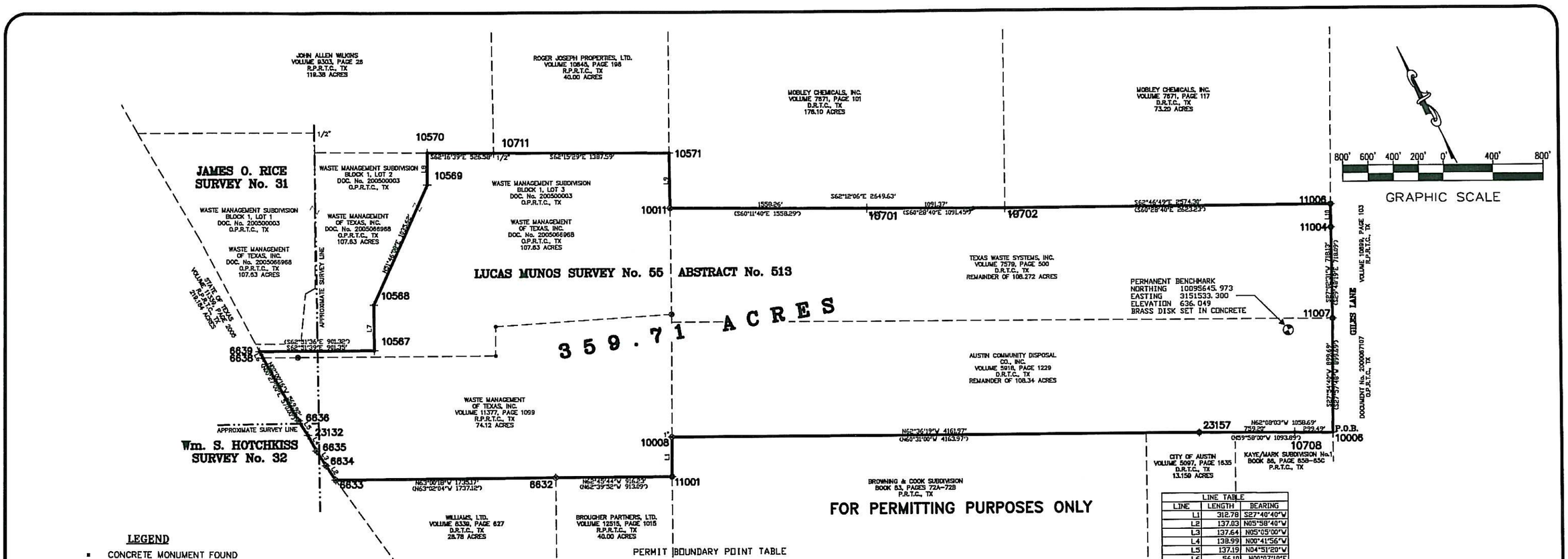
COUNTY OF TRAVIS

That I, Michael R. Hatcher, a Registered Professional Land Surveyor, do hereby certify that the above description is true and correct to the best of my knowledge and belief and that the property described herein was determined by a survey made on the ground during July 2006 under my direction and supervision.

WITNESS MY HAND AND SEAL at Austin, Travis County, Texas this the 7th day of August 2006 A.D.

SURVEYING AND MAPPING, Inc.
5508 West Highway 290, Building B
Austin, Texas 78735

Michael R. Hatcher
Registered Professional Land Surveyor
No. 4259 - State of Texas



GRAPHIC SCALE
800' 600' 400' 200' 0' 400' 800'

FOR PERMITTING PURPOSES ONLY

LINE TABLE		
LINE	LENGTH	BEARING
L1	312.78	S27°40'40"W
L2	137.03	N05°58'40"W
L3	137.64	N05°05'00"W
L4	138.99	N00°41'56"W
L5	137.19	N04°51'20"W
L6	56.10	N00°07'10"E
L7	359.05	N27°02'50"E
L8	250.01	N27°45'31"E
L9	432.06	S26°51'59"W
L10	191.63	S28°35'27"W

LEGEND

- ▪ CONCRETE MONUMENT FOUND
- ◉ 5/8" IRON PIPE FOUND UNLESS OTHERWISE NOTED
- ● 5/8" IRON ROD FOUND UNLESS OTHERWISE NOTED
- ● 1/2" IRON ROD SET
- ( ) RECORD INFORMATION

NOTE:

THE BOUNDARY SURVEY DEPICTED ON THIS EXHIBIT WAS COMPLETED IN FEBRUARY 2004. NO SUBSEQUENT UPDATE HAS BEEN PERFORMED.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT.

SITE CONTROL COORDINATES AND BEARINGS ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM (TEXAS CENTRAL ZONE) NAD 83.

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
150	10095645.973	3151533.300	636.049	BRASS DISK IN CONCRETE

PERMIT BOUNDARY POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
6632	10097407.0702	3145841.0391	5/8" IRON PIPE FOUND
6633	10098194.6856	3144294.9202	5/8" IRON PIPE FOUND
6634	10098330.9658	3144280.6499	5/8" IRON PIPE FOUND
6635	10098468.0632	3144268.4542	5/8" IRON PIPE FOUND
6636	10098743.7468	3144255.1465	5/8" IRON PIPE FOUND
6638	10099313.3161	3144235.2122	5/8" IRON ROD FOUND
6639	10099369.4169	3144235.3292	5/8" IRON ROD FOUND
10006	10094854.8837	3151432.1265	CONCRETE MONUMENT FOUND
10008	10097264.7110	3146800.9563	1" IRON PIPE FOUND
10011	10098863.8676	3147629.6359	1" IRON PIPE FOUND
10567	10098958.2622	3145037.4422	5/8" IRON ROD FOUND
10568	10099278.0411	3145200.7091	5/8" IRON ROD FOUND
10569	10099918.9223	3146014.2139	5/8" IRON ROD FOUND
10570	10100140.1609	3146130.6551	5/8" IRON ROD FOUND
10571	10099249.2903	3147824.8876	60d NAIL FOUND
10702	10097628.1851	3149973.4850	1/2" IRON ROD FOUND
10701	10098137.1568	3149008.0646	1/2" IRON ROD FOUND
10708	10095164.5837	3150996.4138	1/2" IRON ROD SET WITH PLASTIC CAP
10711	10095411.9433	3150544.0658	1/2" IRON ROD SET WITH PLASTIC CAP
11001	10096987.7253	3146655.6718	1/2" IRON ROD SET WITH PLASTIC CAP
11004	10096289.5346	3152179.7618	1/2" IRON ROD SET WITH PLASTIC CAP
11006	10096450.6901	3152262.7087	1/2" IRON ROD SET WITH PLASTIC CAP
11007	10095649.9175	3151853.2718	1/2" IRON ROD SET WITH PLASTIC CAP
23132	10098607.0450	3144266.7590	5/8" IRON ROD FOUND
23157	10095349.7169	3150496.1967	1/2" IRON ROD SET WITH PLASTIC CAP

THIS DRAWING DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. SAM, INC. DRAWING No. W026-23127-01 WAS PREPARED TO SHOW A COMPLETE BOUNDARY SURVEY OF THE PROPERTY SHOWN ON THIS DRAWING. SAM, INC. DRAWING No.'s W026-25168-02, 03, 04 AND SAM, INC. PROPERTY DESCRIPTION No. F.N. 4252 WERE ALSO PREPARED IN CONNECTION WITH THIS PROPERTY.

THIS "PERMIT BOUNDARY MAP" WAS PREPARED UNDER MY SUPERVISION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

MICHAEL R. HATCHER — AUGUST 7, 2006

MICHAEL R. HATCHER
REGISTERED PROFESSIONAL LAND SURVEYOR
No. 4259 – STATE OF TEXAS

STATE OF TEXAS · REGISTERED · MICHAEL R. HATCHER · 4259 · PROFESSIONAL · LAND SURVEYOR

NO.	REVISIONS	BY	DATE

PROJECT: WASTE MANAGEMENT OF TX., INC. AUSTIN COMMUNITY LANDFILL
JOB NUMBER: 25168-01
DATE: AUGUST 7, 2006
SCALE: 1"=800'
PROJ.MANAGER: M.R.H.
TECHNICIAN: G. HANSON
DRAWING: BOUNDARY.DWG
FIELDNOTES: 4252
PARTYCHIEF: J. SANDOVAL
FIELDBOOKS:

SAM inc.
SURVEYING•AERIAL MAPPING•ENGINEERING
5508 WEST HIGHWAY 290
BUILDING B
Austin, Texas 78735
(512) 447-0575
Fax: (512) 326-3029

PERMIT BOUNDARY MAP
MUNICIPAL SOLID WASTE EXPANSION APPLICATION
PERMIT MSW-249D
AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY
TRAVIS COUNTY, TEXAS

SHEET 1 OF 1

PLAT No. W026-25168-01

PHOTOGRAPHIC MYLAR

File Name: L:\21435\SHEETS\PLAT.DWG

1.5.05 2005000003 $111.00

WASTE MANAGEMENT

DATE PREPARED:
NOVEMBER 23, 2002

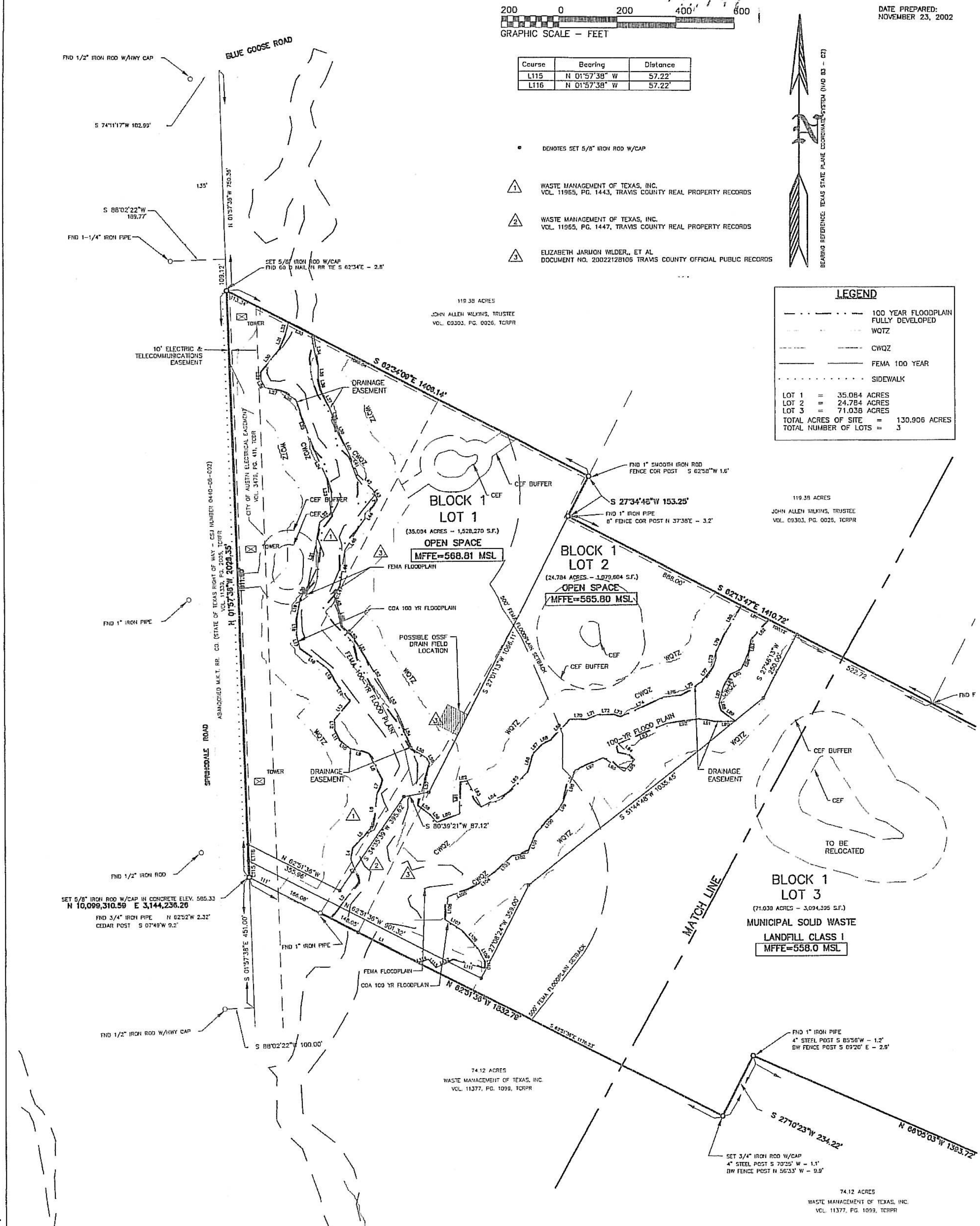
Course	Bearing	Distance
L115	N 01°57'38" W	57.22'
L116	N 01°57'38" W	57.22'

● DENOTES SET 5/8" IRON ROD W/CAP

△1 WASTE MANAGEMENT OF TEXAS, INC. VOL. 11965, PG. 1443, TRAVIS COUNTY REAL PROPERTY RECORDS

△2 WASTE MANAGEMENT OF TEXAS, INC. VOL. 11965, PG. 1447, TRAVIS COUNTY REAL PROPERTY RECORDS

△3 ELIZABETH JARMON WILDER,, ET AL DOCUMENT NO. 2002212806 TRAVIS COUNTY OFFICIAL PUBLIC RECORDS



200 0 200 400 600
GRAPHIC SCALE - FEET
BEARING REFERENCE: TEXAS STATE PLANE COORDINATE SYSTEM (NAD 83 - C2)
BLUE GOOSE ROAD
SPRINGDALE ROAD
FND 1/2" IRON ROD W/HWY CAP
S 74°11'17"W 102.99'
N 01°57'38"W 750.35'
S 88°02'22"W 189.77'
FND 1-1/4" IRON PIPE
SET 5/8" IRON ROD W/CAP
FND 60 D NAIL IN RR TIE S 62°34'E - 2.8'
119.38 ACRES
JOHN ALLEN WILKINS, TRUSTEE
VOL. 09303, PG. 0026, TCRPR
10' ELECTRIC & TELECOMMUNICATIONS EASEMENT
TOWER
DRAINAGE EASEMENT
S 62°34'00"E 1408.14'
CITY OF AUSTIN ELECTRICAL EASEMENT VOL. 3470, PG. 411, TCDR
ABANDONED M.K.T. RR. CO. (STATE OF TEXAS RIGHT OF WAY - CSJ NUMBER 0440-06-032) VOL. 11332, PG. 2005, TCRPR
H 01°57'38"W 2029.35'
FND 1" IRON PIPE
CEF BUFFER
CEF
BLOCK 1
LOT 1
(35.084 ACRES - 1,528,270 S.F.)
OPEN SPACE
MFFE=568.81 MSL
FEMA FLOODPLAIN
COA 100 YR FLOODPLAIN
POSSIBLE OSSF DRAIN FIELD LOCATION
FEMA 100-YR FLOOD PLAIN
WQTZ
CWQZ
FND 1" SMOOTH IRON ROD
FENCE COR POST S 62°58"W 1.6'
S 27°34'46"W 153.25'
FND 1" IRON PIPE
8" FENCE COR POST N 37°38'E - 3.2'
BLOCK 1
LOT 2
(24.784 ACRES - 1,079,604 S.F.)
OPEN SPACE
MFFE=565.80 MSL
500' FEMA FLOODPLAIN SETBACK
S 27°01'13"W 1056.11'
888.00'
S 62°13'47"E 1410.72'
522.72
FND F
S 27°46'13"W 250.00'
100-YR FLOOD PLAIN
DRAINAGE EASEMENT
S 51°44'48"W 1035.45'
S 80°39'21"W 87.12'
S 34°35'39"W 395.62'
CEF BUFFER
CEF
TO BE RELOCATED
BLOCK 1
LOT 3
(71.038 ACRES - 3,094,395 S.F.)
MUNICIPAL SOLID WASTE
LANDFILL CLASS I
MFFE=558.0 MSL
MATCH LINE
FND 1/2" IRON ROD
SET 5/8" IRON ROD W/CAP IN CONCRETE ELEV. 585.33
N 10,099,310.59 E 3,144,236.26
FND 3/4" IRON PIPE N 62°52'W 2.32'
CEDAR POST S 07°49'W 9.2'
N 62°51'36"W 355.96'
166.08'
146.05'
N 62°51'36"W 901.32'
S 27°08'24"W 359.00'
FEMA FLOODPLAIN
COA 100 YR FLOODPLAIN
N 62°51'38"W 1832.76'
S 01°57'38"E 451.00'
FND 1/2" IRON ROD W/HWY CAP
S 88°02'22"W 100.00'
74.12 ACRES
WASTE MANAGEMENT OF TEXAS, INC.
VOL. 11377, PG. 1099, TCRPR
FND 1" IRON PIPE
4" STEEL POST S 85°56'W - 1.2'
BW FENCE POST S 09°20' E - 2.5'
S 27°10'23"W 234.22'
N 66°05'03"W 1393.72'
SET 3/4" IRON ROD W/CAP
4" STEEL POST S 70°35' W - 1.1'
BW FENCE POST N 56°33' W - 9.9'

LEGEND

— · · — · ·	100 YEAR FLOODPLAIN FULLY DEVELOPED
- - - -	WQTZ
— - — -	CWQZ
———	FEMA 100 YEAR
· · · · · · ·	SIDEWALK

LOT 1 = 35.084 ACRES
LOT 2 = 24.784 ACRES
LOT 3 = 71.038 ACRES
TOTAL ACRES OF SITE = 130.906 ACRES
TOTAL NUMBER OF LOTS = 3

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8609

ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519

WASTE MANAGEMENT
SHEET 1 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR

File Name: L:\21435\SHEETS\PLAT.DWG

1.5.05 2005000003 $111.00

WASTE MANAGEMENT

DATE PREPARED:
NOVEMBER 23, 2002

200 0 200 400 600
GRAPHIC SCALE – FEET

BEARING REFERENCE: TEXAS STATE PLANE COORDINATE SYSTEM (NAD 83 – CZ)

Course	Bearing	Distance
L115	N 01°57'38" W	57.22'
L116	N 01°57'38" W	57.22'

Course	Bearing	Distance
L1	N 62°51'36" W	340.28'
L2	N 37°39'13" E	161.73'
L3	N 19°37'49" W	83.24'
L4	N 10°45'36" E	38.03'
L5	N 42°48'03" E	105.67'
L6	N 06°54'54" E	111.76'
L7	N 21°45'18" E	48.98'
L8	N 26°27'30" W	104.23'
L9	N 74°23'45" W	67.54'
L10	N 53°27'02" W	44.36'
L11	N 27°15'19" W	39.86'
L12	N 01°10'09" W	35.56'
L13	N 41°20'17" E	84.03'
L14	N 37°13'52" W	90.90'
L15	N 30°01'52" W	46.36'
L16	N 53°27'02" W	119.08'
L17	N 14°22'28" W	44.38'
L18	N 01°10'09" W	59.84'
L19	N 11°02'47" E	73.19'
L20	N 30°46'44" E	55.53'
L21	N 10°47'22" E	219.73'
L22	N 49°38'35" E	50.18'
L23	N 07°21'29" W	127.60'
L24	N 24°01'37" W	110.87'
L25	N 19°51'55" W	183.79'
L26	N 57°28'42" W	53.17'
L27	N 77°14'31" W	63.03'
L28	N 27°15'19" W	30.86'
L29	N 01°10'09" W	25.12'
L30	N 38°39'15" E	104.27'
L31	N 23°23'47" E	47.53'
L32	N 14°12'05" E	49.03'
L33	S 62°34'09" E	101.08'
L34	N 07°24'47" W	104.82'
L35	N 00°11'16" W	44.62'
L36	S 12°35'21" E	40.96'
L37	S 25°20'41" E	73.55'
L38	N 18°59'46" W	48.14'
L39	N 24°11'14" W	67.75'
L40	N 25°50'38" W	51.71'
L41	S 22°45'22" E	76.62'
L42	N 44°37'53" W	76.42'
L43	S 24°18'37" E	35.80'
L44	N 34°50'26" E	121.94'
L45	N 31°41'11" E	84.86'
L46	N 08°20'11" E	119.67'
L47	N 29°33'04" E	44.14'
L48	N 18°49'00" W	56.81'
L49	N 11°08'55" W	52.51'
L50	S 41°02'28" E	69.60'
L51	N 31°05'14" W	68.76'
L52	N 29°27'16" W	141.76'
L53	N 28°57'35" W	100.43'
L54	N 20°53'17" W	108.97'
L55	N 57°34'56" W	61.44'
L56	S 27°15'19" E	20.42'
L57	S 15°12'56" W	151.46'
L58	S 52°49'50" E	51.06'
L59	S 41°47'55" E	36.04'
L60	N 70°07'15" E	81.69'
L61	N 01°11'53" E	111.10'
L62	N 83°11'17" E	24.88'
L63	S 28°20'14" E	101.99'
L64	N 61°35'20" E	100.49'
L65	N 44°22'57" E	103.14'
L66	N 17°58'42" E	66.17'
L67	N 43°51'16" E	39.18'
L68	N 64°07'11" E	35.72'
L69	N 44°26'03" E	97.80'
L70	S 89°16'04" E	56.47'
L71	N 67°55'17" E	42.39'
L72	S 89°59'57" E	54.57'
L73	S 71°06'17" E	24.40'
L74	N 55°43'44" E	161.59'
L75	N 84°00'49" E	60.23'
L76	N 57°10'10" E	83.19'
L77	N 37°51'24" E	66.25'
L78	N 10°10'11" E	51.42'
L79	N 25°52'49" E	68.14'
L80	N 30°20'29" E	118.00'
L81	S 62°13'46" E	109.12'
L82	S 42°17'30" W	92.72'
L83	S 11°02'47" W	50.00'
L84	S 25°52'49" W	60.14'
L85	S 64°07'11" W	39.37'
L86	S 31°14'01" W	49.70'
L87	S 16°08'25" W	57.98'
L88	S 15°05'37" E	26.67'
L89	S 53°47'07" E	63.45'
L90	S 89°36'31" W	70.02'
L91	N 80°19'13" W	58.38'
L92	S 82°03'10" W	110.23'
L93	S 67°42'04" W	179.29'
L94	S 45°03'36" E	78.22'
L95	S 42°14'10" W	53.62'
L96	N 56°54'07" W	86.08'
L97	S 66°27'30" W	106.07'
L98	S 21°03'57" W	119.62'
L99	S 33°15'01" W	26.59'
L100	S 43°35'00" W	117.40'
L101	S 22°49'58" W	73.76'
L102	S 80°45'15" W	54.16'
L103	S 47°23'24" W	82.24'
L104	S 54°42'05" W	88.04'
L105	S 69°12'27" W	93.40'
L106	S 07°43'14" W	80.40'
L107	S 56°59'30" E	68.82'
L108	S 40°46'36" E	86.07'
L109	S 27°15'19" E	47.05'
L110	S 01°10'09" E	24.24'
L111	N 74°10'37" W	113.45'
L112	S 65°53'26" W	64.15'
L113	N 43°51'15" W	39.55'
L114	S 69°16'16" W	35.59'

FND 1" SMOOTH IRON ROD
FENCE COR POST S 62°59'W 1.6'

27°34'48"W 153.25'
1" IRON PIPE
FENCE COR POST N 37°38'E – 3.2'

119.38 ACRES
JOHN ALLEN WILKINS, TRUSTEE
VOL. 03303, PG. 0026, TCRPR

● DENOTES SET 5/8" IRON ROD W/CAP

1 WASTE MANAGEMENT OF TEXAS, INC.
VOL. 11965, PG. 1443, TRAVIS COUNTY REAL PROPERTY RECORDS

2 WASTE MANAGEMENT OF TEXAS, INC.
VOL. 11965, PG. 1447, TRAVIS COUNTY REAL PROPERTY RECORDS

3 ELIZABETH JARMON WILDER, ET AL
DOCUMENT NO. 2002212B106 TRAVIS COUNTY OFFICIAL PUBLIC RECORDS

LEGEND

- 100 YEAR FLOODPLAIN FULLY DEVELOPED
- WQTZ
- CWQZ
- FEMA 100 YEAR
- SIDEWALK

LOT 1 = 35.084 ACRES
LOT 2 = 24.784 ACRES
LOT 3 = 71.038 ACRES
TOTAL ACRES OF SITE = 130.906 ACRES
TOTAL NUMBER OF LOTS = 3

S 62°13'47"E 1410.72'
658.00'
622.72'
S 27°46'13"W 250.00'
WQTZ.
CWQZ
100 YR FLOOD PLAIN
WQTZ.
S 51°44'48"W 1035.45'
DRAINAGE EASEMENT
CEF BUFFER
CEF
TO BE RELOCATED
FND FENCE CORNER POST
ROGER JOSEPH PROPERTIES, LTD
VOL. 10545, PG. 0198, TCRPR
1913.89'
S 62°10'20"E 1391.13'
10' ELECTRIC & TELECOMMUNICATIONS EASEMENT
POSSIBLE OSSF DRAIN FIELD LOCATION
FND 60 D NAIL IN FENCE POST
10' ELECTRIC & TELECOMMUNICATIONS EASEMENT ENDS AT PROPERTY LINE
S 26°31'05"W 432.99'
176.10 ACRES
MOBLEY CHEMICALS, INC.
VOL. 7671, PG. 101, TCDR
MATCH LINE
BLOCK 1
LOT 3
(71.038 ACRES – 3,094,395 S.F.)
MUNICIPAL SOLID WASTE
LANDFILL CLASS 1
MFFE=558.0 MSL
FND 1" IRON PIPE
4" STEEL POST S 65°56'W – 1.2'
BW FENCE POST S 09°20' E – 2.9'
FND 1" IRON PIPE
4" STEEL POST S 50°42'E – 11.7'
BW FENCE POST S 05°22'W – 0.5'
S 27°10'23"W 234.22'
N 65°03'03"W 1383.72'
S 27°05'52"W 634.60'
SET 3/4" IRON ROD W/CAP
4" STEEL POST S 70°35' W – 1.1'
BW FENCE POST N 56°33' W – 9.9'
74.12 ACRES
WASTE MANAGEMENT OF TEXAS, INC.
VOL. 11377, PG. 1093, TCRPR
108.27 ACRES
TEXAS WASTE SYSTEMS, INC.
(NOW WASTE MANAGEMENT, INC.)
VOL. 7579, PG. 500, TCDR
FND 1" IRON PIPE
4" STEEL POST S 30°07'W–3.7'
BW FENCE POST S 52°27'W–1.6'
AUSTIN COMMUNITY DISPOSAL COMPANY, INC.
(NOW WASTE MANAGEMENT, INC.)
VOL. 5918, PG. 1229, TCDR

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8609

ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519

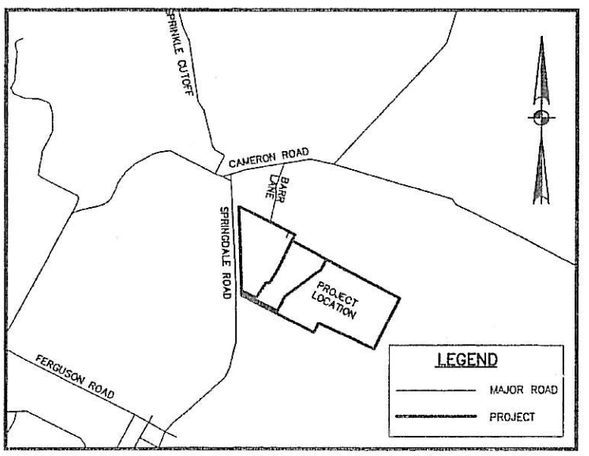
WASTE MANAGEMENT
SHEET 2 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR

File Name: L:\21435\SHEETS\PLAT.DWG

1.5.05 2005000003 $111.00

WASTE MANAGEMENT



LOCATION MAP

N.T.S.

1. THIS PROJECT IS LOCATED IN THE WALNUT CREEK WATERSHED, A SUBURBAN WATERSHED

2. ALL LOTS IN THIS SUBDIVISION SHALL HAVE USES OTHER THAN RESIDENTIAL.

3. NO DEVELOPMENT SHALL BE ALLOWED ON LOT 1 AND LOT 2 (OPEN SPACE LOT). OPEN SPACE LOT WILL BE MAINTAINED BY OWNER.

4. ALL STREETS WILL BE CONSTRUCTED TO APPLICABLE CITY OF AUSTIN AND TRAVIS COUNTY STANDARDS.

5. OFF-STREET LOADING AND UNLOADING FACILITIES SHALL BE PROVIDED ON ALL COMMERCIAL AND INDUSTRIAL LOTS.

6. WASTEWATER AND POTABLE WATER FOR LOT 3 WILL BE PROVIDED BY THE FACILITIES ON THE ADJACENT WASTEMANAGEMENT PROPERTY. LOT 1 AND 2 DO NOT REQUIRE SERVICE BECAUSE THEY ARE OPENSPACE LOTS.

7. THE OWNER OF THIS SUBDIVISION, AND HIS OR HER SUCCESSORS AND ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF THE CITY OF AUSTIN. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR REPLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.

8. THE OWNER OF THIS SUBDIVSION, AND HIS OR HER SUCCESSORS AND ASSIGNS, MUST MAKE PROVISIONS FOR PERPETUAL MAINTENANCE AND TAXATION FOR PRIVATELY HELD STREETS, ALLEYS, EASEMENTS, PARKS AND OTHER OPEN SPACES CONTAINED IN THIS SUBDIVISION.

9. PRIOR TO CONSTRUCTION, EXCEPT SINGLE FAMILY AND/OR DUPLEX ON ANY LOT IN THIS SUBDIVISION, A SITE DEVELOPMENT PERMIT MUST BE OBTAINED FROM THE CITY OF AUSTIN.

10. DRAINAGE EASEMENTS WITHIN LOT BOUNDARIES WILL BE KEPT CLEAR OF FENCES, BUILDINGS, LANDSCAPING, AND OTHER OBSTRUCTIONS EXCEPT AS APPROVED BY THE CITY OF AUSTIN AND COUNTY OF TRAVIS.

11. ALL DRAINAGE EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER OR ASSIGNS.

12. THE PROPERTY OWNER SHALL PROVIDE ACCESS TO DRAINAGE EASEMENTS AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS BY GOVERENMENTAL AUTHORITIES.

13. PORTIONS OF THIS SITE ARE WITHIN THE 100 YEAR FLOODPLAIN AS DEFINED BY FEMA FIRM PANEL 48453C0120E DATED JUNE 16, 1993 AND/OR DRAINAGE STUDY BY TURNER COLLIE AND BRADEN INC.

14. THE 100-YEAR FLOOD PLAIN SHALL BE CONTAINED WITHIN THE DRAINAGE EASEMENT AS SHOWN HEREON. NO LOTS SHALL BE DEVELOPED ADJACENT TO THE DRAINAGE EASMENT UNTIL DRAINAGE IMPROVMENTS HAVE BEEN SATISFACTORILY COMPLETED AND APPROVED BY THE COUNTY ENGINEER/CITY OF AUSTIN.

15. HEAVEY EQUIPMENT AND WASTE HAULING VEHICLES WILL NOT ACCESS THE SITE FROM SPRINGDALE ROAD.

16. EROSION/SEDIMENTATION CONTROLS ARE REQUIRED FOR ALL CONSTRUCTION ON EACH LOT, PERSUANT TO LDC SECTION 25-8-181, AND THE ENVIRONMENTAL CRITERIA MANUAL.

17. WATER QUALITY CONTROLS ARE REQUIRED FOR ALL DEVELOPMENT WITH IMPERVIOUS COVER IN EXCESS OF 20% OF THE NET SITE AREA OF EACH LOT PURSUANT TO LDC SECTION 25-8-211.

18. CONSTRUCTION ON ALL LOTS WILL NOT CAUSE PONDING, EROSION OR INCREASED FLOW ON ADJACENT PROPERTIES.

19. PRIOR TO CONSTRUCTION ON LOTS IN THE SUBDIVISION, DRAINAGE PLANS WILL BE RESUBMITTED TO COA FOR REVIEW. RAINFALL RUNOFF SHALL BE LIMITED TO EXISTING UNDEVELOPED AMOUNT BY PONDING OR OTHER METHODS.

20. TRACTS OF LAND ACCESSED ONLY BY MEANS OF DEDICATED EASEMENT WILL BE ASSIGNED ONLY ONE HOUSE NUMBER BASED UPON THE JUNCTURE OF THE EASEMENT WITH THE NAMED STREET. ALL TRACTS OF LAND THUS ACCESSED WILL BE ASSIGNED UNIT NUMBERS BASED UPON THEIR RELATVE LOCATION ON THE EASEMENT.

21. AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

22. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

23. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

24. TRAVIS COUNTY DEVELOPMENT PERMIT REQUIRED PRIOR TO ANY SITE DEVLEOPMENT.

25. SIDEWALKS ALONG SPRINGDALE ROAD ARE REQUIRIED TO BE CONSTRUCTED BY THE PROPERTY OWNER AFTER THE ABUTTING ROADWAY IS IMPROVED AND CONCRETE CURBS ARE IN PLACE. FAILURE TO CONSTRUCT THE REQUIRED SIDEWALKS MAY RESULT IN THE WITHHOLDING OF CERTIFICATES OF OCCUPANCE, BUILDING PERMITS, OR UTILITY CONNECTIONS BY THE GOVERNING BODY OR UTILITY COMPANY.

29. WITHIN A CRITICAL ENVIRONMENTAL FEATURE BUFFER ZONE, THE NATURAL VEGETATIVE COVER MUST BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE. CONSTRUCTION IS PROHIBITED, AND WASTEWATER DISPOSAL OR IRRIGATION IS PROHIBITED.

26. THE CEF, A WETLAND STOCK POND, AND ITS 150' SETBACK ON LOT 3 WILL BE RELOCATED AT A 1:1 RATIO TO AN AREA ON LOT 3 OUTSIDE THE CWQZ DETERMINED BY THE OWNER TO NOT IMPEDE DEVELOPMENT. THE REPLACEMENT WETLAND LANDSCAPE WILL BE INSTALLED AS DIRECTED BY STANDARD SPECIFICATION MANUAL 609S ON DATE APPROVED.

27. IN ACCORDANCE WITH THE COA ENVIRONMENTAL REVIEW, THE RELOCATED WETLAND POND CAN BE COMBINED WITH A DETENTION OR WATER QUALITY POND TO FORM A WET POND.

28. THE LOCATION AND SIZE OF CRITICAL ENVIRONMENTAL FEATURES SHOWN ON THE PLAT ARE APPROXIMATE.

30. APPROVAL OF THIS SUBDIVISION PLAT BY THE COMMISSIONERS' COURT DOES NOT MEAN APPROVAL OF CONSTRUCTION OF A LANDFILL GAS VENT ON THIS SITE.

TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM NOTES

1. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PUBLIC SEWER SYSTEM OR A PRIVATE ON-SITE WASTEWATER DISPOSAL SYSTEM APPROVED BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM.

2. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A POTABLE WATER SUPPLY FROM AN APPROVED WATER SYSTEM.

3. NO ON-SITE WASTEWATER DISPOSAL SYSTEM MAY BE INSTALLED WITHIN 100 FEET OF A PRIVATE WATER WELL NOR MAY AN ON-SITE WASTEWATER DISPOSAL SYSTEM BE INSTALLED WITHIN 150 FEET OF A PUBLIC WATER WELL.

4. NO CONSTRUCTION MAY BEGIN ON A LOT IN THIS SUBDIVISION UNTIL PLANS FOR THE PRIVATE ON-SITE WASTEWATER DISPOSAL SYSTEM ARE SUBMITTED TO AND APPROVED BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM.

5. ALL DEVELOPMENT ON ALL LOTS IN THIS SUBDIVISION MUST BE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE CHAPTER 48 - TRAVIS COUNTY, RULES OF TRAVIS COUNTY, TEXAS FOR ON-SITE SEWAGE FACILITIES.

6. THESE RESTICTIONS ARE ENFORCEABLE BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM AND/OR LOT OWNERS.

Robert Wright for
ROBERT WRIGHT, R.S.

8-7-2003
DATE

COMMISSIONERS' COURT RESOLUTION

IN APPROVING THIS PLAT, THE COMMISSIONERS COURT OF TRAVIS COUNTY, TEXAS, ASSUMES NO OBLIGATION TO BUILD THE STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT OR ANY BRIDGES OR CULVERTS IN CONNECTION THEREWITH. THE BULIDING OF ALL STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT, AND ALL BRIDGES AND CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED IN SUCH STREETS, ROADS OR OTHER PUBLIC THOROUGHFARES OR IN CONNECTION THEREWITH, IS THE RESPONSIBILITY OF THE OWNER AND/OR DEVELOPER OF THE TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH PLANS AND SPECIFICATION PRESCRIBED BY THE COMISSIONERS COURT OF TRAVIS COUNTY, TEXAS.

THE OWNER(S) OF THE SUBDIVISION SHALL CONSTRUCT THE SUBDIVISION'S STREET AND DRAINAGE IMPROVEMNTS (THE "IMPROVEMENTS") TO COUNTY STANDARDS IN ORDER FOR THE COUNTY TO ACCEPT THE PUBLIC IMPROVEMENTS FOR MAINTENANCE OR TO RELEASE FISCAL SECURITY POSTED TO SECURE PRIVATE IMPROVMENTS. TO SECURE THIS OBLIGATION, THE OWNER(S) MUST POST FISCAL SECURITY WITH THE COUNTY IN THE AMOUNT OF THE ESTIMATED COST OF IMPROVEMNETS. THE OWNER(S)' OBLIGATION TO CONSTRUCT THE IMPROVEMENTSTO COUNTY STANDARDS AND TO POST THE FISCAL SECURITY TO SECURE SUCH CONSTRUCTION IS A CONTINUING OBLIGATION BINDING ON THE OWNERS AND THEIR SUCCESSORS AND ASSIGNS UNTIL THE PUBLIC IMPROVEMENTS HAVE BEEN ACCEPTED FOR MAINTENANCE BY THE COUNTY, OR THE PRIVATE IMPROVMENTS HAVE BEEN CONSTRUCTED AND ARE PERFORMING TO COUNTY STANDARDS.

THE AUTHORIZATION OF THIS PLAT BY THE COMMISSIONERS FOR FILING OR THE SUBSEQUENT ACCEPTANCE FOR MAINTENANCE BY TRAVIS COUNTY, TEXAS, OF ROADS AND STREETS IN THE SUBDIVISION DOES NOT OBLIGATE THE COUNTY TO INSTALL STREET NAME SIGNS OR ERECT TRAFFIC CONTROL SIGNS, SUCH AS SPEED LIMIT, STOP SIGNS, AND YIELD SIGNS, WHICH IS CONSIDERED TO BE PART OF THE DEVELOPER'S CONSTURCTION.

THIS SUBDIVISION PLAT WAS APPROVED AND RECORDED BEFORE THE CONSTRUCTION AND ACCEPTANCE OF STREETS AND OTHER SUBDIVISION IMPROVEMENTS. PURSUANT TO THE TERMS OF A SUBDIVISION CONSTRUCTION AGREEMENT BETWEEN THE SUBDIVIDER AND THE CITY OF AUSTIN, DATED Dec 16, 2003, THE SUBDIVIDER IS RESPONSIBLE FOR THE CONSTRUCTION OF ALL STREETS AND FACILITIES NEEDED TO SERVE THE LOTS WITHIN THE SUBDIVISION. THIS RESPONSIBILTY MAY BE ASSIGNED IN ACCORDANCE WITH THE TERMS OF THAT AGREEMENT. FOR THE CONSTRUCTION AGREEMENT PERTAINING TO THIS SUBDIVISION, SEE THE SEPARATE INSTRUMENT RECORDED IN DOCUMENT NUMBER 2005000181 IN THE OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

STATE OF TEXAS:
COUNTY OF TRAVIS:

I, Dana DeBeauvoir, Clerk of the County Court, of Travis County, Texas do hereby certify that on the 2nd day of January, 2005, A.D., the Commissioner's Court of Travis County, Texas passed an order authorizing the filing for record of this plat and that said order was duly entered in the minutes of said Court, in Book ____ Pages ____

Witness my hand and seal of office of the County Court of said County, the 2nd day of January, 2005, A.D.

Dana DeBeauvoir, Clerk of Court
TRAVIS COUNTY, TEXAS
D. Smith
Deputy

STATE OF TEXAS:
COUNTY OF TRAVIS:

I, Dana DeBeauvoir, Clerk of Travis County, Texas do hereby certify that the foregoing instrument of writing and its certificate of authentication was filed for record in my office on the 5th day of January, 2005, A.D. at 2:56 O'Clock P M., duly recorded on the 5th day of January, 2005, A.D. at 2:56 O'Clock P M., plat records of said County and State in Document Number 2005000003 Official Public Records of Travis County.

Witness my hand and seal of office of the County Clerk, this 5th day of January, 2005, A.D.
Dana DeBeauvoir, County Clerk
TRAVIS COUNTY, TEXAS
B. Londagin E. LONDAGIN
Deputy

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8609

ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519

WASTE MANAGEMENT
SHEET 3 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR
File Name: L:\21435\SHEETS\PLAT.DWG

1.5.05 2005000003 $111.00

WASTE MANAGEMENT

OWNERS:
DIANE HALE
ROBERT E. WILDER
JOHN W. WILDER
ELIZABETH WILDER
ALL ABOVE CARE OF:
ELIZABETH WILDER
1030 SAUSALITO
AUSTIN, TX 78759

WASTEMANAGEMENT
JAMES O. SMITH
9708 GILES LN
AUSTIN, TX 78754
512-563-4495
512-272-8960 (FAX)

I, KEVIN A. OLSON, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH SURVEY-RELATED PORTIONS OF CHAPTER 25 OF THE AUSTIN CITY CODE OF 1999 AS AMENDED; IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE; AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

MARTIN SURVEYING ASSOCIATES INC.

KEVIN A. OLSON, R.P.L.S. NO. 4524
8810 WILL CLAYTON PARKWAY SUITE F.
HUMBLE, TEXAS 77338

STATE OF TEXAS
REGISTERED
KEVIN A. OLSON
4524
PROFESSIONAL
LAND SURVEYOR

~~APPROVED, ACCEPTED, AND AUTHORIZED FOR RECORD BY THE~~ ~~DIRECTOR~~, WATERSHED PROTECTION & DEVELOPMENT REVIEW DEPARTMENT, CITY OF AUSTIN, COUNTY OF TRAVIS, THIS THE 7th DAY OF August, 2003, A.D.

for
DIRECTOR
WATERSHED PROTECTION AND DEVELOPMENT REVIEW

THIS PLAT FALLS WITHIN THE 2 MILE ETJ OF THE CITY OF AUSTIN ON THIS THE 7th DAY OF August, 2003.

~~ACCEPTED AND AUTHORIZED FOR RECORD BY THE PLANNING COMMISSION OF THE CITY OF AUSTIN, TEXAS, THIS THE _____ DAY OF _____ 2003.~~

~~CHAIRPERSON~~ ~~SECRETARY~~

I, MARK T. BURSON, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING, AND HEREBY CERTIFY THAT THIS PLAT IS FEASIBLE FROM AN ENGINEERING STANDPOINT, COMPLIES WITH THE ENGINEERING RELATED PORTIONS OF CHAPTER 25 OF THE AUSTIN CITY CODE OF 1999 AS AMENDED, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

THE 100-YEAR FLOOD PLAIN IS CONTAINED WITHIN THE DRAINAGE EASEMENT AS SHOWN HEREON. A PORTION OF THIS TRACT IS WITHIN THE DESIGNATED FLOOD HAZARD AREA AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) #48453C0120E TRAVIS COUNTY, TEXAS DATED 6/16/1993. THE 100 YEAR FLOODPLAIN WAS DETERMINED BY TCB FLOOD PLAIN STUDY. MINIMUM FINISHED FLOOR ELEVATION FOR ALL AFFECTED STRUCTRES SHALL BE ONE (1) FOOT ABOVE THE ELEVATION OF THE 100-YEAR FLOOD PLAIN AS SHOWN HEREON: LOT 1: 568.81 M.S.L. AND LOT 2: 565.80 M.S.L. AND LOT 3: 558.0 M.S.L.

MARK T. BURSON, P.E. NO.
TURNER COLLIE & BRADEN INC.
400 WEST 15TH STREET SUITE 500
AUSTIN, TEXAS 78701

DATE 4/18/05

STATE OF TEXAS
MARK T. BURSON
66334
REGISTERED
PROFESSIONAL ENGINEER

STATE OF TEXAS
COUNTY OF TRAVIS

KNOW ALL MEN BY THESE PRESENTS:

THAT JOHN W. WILDER, ROBERT E. WILDER, AND DIANE HALE, EACH BEING OWNERS OF A 8.33% UNDIVIDED INTEREST AND ELIZABETH WILDER, OWNER OF A 75% UNDIVIDED INTERTEST IN THE 105.62 ACRE PROPERTY AS RECORDED IN DOC # 2002128106 OF THE OFFICIAL RECORDS OF TRAVIS COUNTY, TEXAS, AND THAT WASTE MANAGEMENT, ACTING HEREIN AND THROUGH JAMES O. SMITH, OWNERS OF 21.03 ACRES, AS RECORDED IN TRAVIS COUNTY REAL PROPERTY RECORDS VOL.11965, PG 1443 AND VOL. 11965, PG 1447,

DO HEREBY SUBDIVIDE SAID PROPERTY PURSUANT TO TITLE 25 OF THE AUSTIN CITY CODE, CHAPTERS 212 AND 232 OF THE TEXAS LOCAL GOVERNMENT CODE, AND IN ACCORDANCE WITH THE ATTACHED PLAT TO BE KNOWN AS "WASTE MANAGEMENT" SUBJECT TO ANY EASEMENTS OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED, AND DO HEREBY DEDICATE TO THE PUBLIC THE USE OF ALL EASEMENTS SHOWN HEREON, EXCEPT AS PREVIOUSLY GRANTED, AS REFLECTED HEREON.

WITNESS MY HAND, THIS THE 6 DAY OF Aug, 2003, A.D.

BY: John W. Wilder
JOHN W. WILDER
10611 SAN SOUCI PLACE
AUSTIN, TEXAS 78759

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY JOHN W. WILDER ON THE 6th DAY OF August 2003, A.D.,

Marcos A Gomez
Notary Public, State of Texas
My Commission Expires
APRIL 01, 2005

NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: April 1 2005

BY: R-t E. Wilder
ROBERT E. WILDER
3606 VARA
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY ROBERT E. WILDER ON THE 6th DAY OF August 2003, A.D.,

Marcos A Gomez
Notary Public, State of Texas
My Commission Expires
APRIL 01, 2005

NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: April 1 2005

BY: Diane W. Hale
DIANE W. HALE
10302 BARR LANE
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY DIANE W. HALE ON THE 6th DAY OF August 2003, A.D.,

Carol L. Mashaka
NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: Nov. 15, 2003

CAROL G. MASHAKA
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
11-15-2005

BY: Elizabeth Wilder
ELIZABETH WILDER
1030 SAUSALITO
AUSTIN, TEXAS 78759

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY ELIZABETH WILDER ON THE 6 DAY OF Aug 2003, A.D.,

Helen Long Hubbard
NOTARY PUBLIC, IN AND FOR ~~TRAVIS~~ COUNTY
MY COMMISSION EXPIRES: 6/24/2007

BY: Steve Jacobs
~~JAMES O. SMITH~~ Steve Jacobs
9708 GILES LANE
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY JAMES O. SMITH ON THE 6 DAY OF Aug 2003, A.D.,

Carol L. Mashaka
NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: Nov. 15, 2003

CAROL G. MASHAKA
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
11-15-2005

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8609

ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519

WASTE MANAGEMENT
SHEET 4 OF 4
CASE # C8J-02-0235.0A

EASEMENT SURVEY MAP

40' CITY OF PFLUGERVILLE WATERLINE EASEMENT
(30" WATER LINE)

POINT	NORTHING	EASTING
1277	10099297.2710	3144376.0771
1278	10098790.8748	3144393.6711
1279	10098701.1561	3144402.3994
1280	10098653.5017	3144497.6572
1281	10098350.0668	3144558.5975
1282	10098009.0634	3144659.3037
1283	10098034.0723	3144610.2101
1284	10098340.4451	3144519.7312
1285	10098626.4699	3144462.2874
1286	10098675.2755	3144364.7283
1287	10098788.2413	3144353.7384
1288	10099318.1589	3144335.3272

15' C.O.A. WASTEWATER EASEMENT
(8" GRAVITY AND 4" FORCE MAIN)

POINT	NORTHING	EASTING
1300	10098194.6856	3144294.9202
1301	10097407.0702	3145841.0391
1302	10096987.7253	3146655.6718
1303	10097001.0093	3146662.6395
1304	10097420.4069	3145847.9044
1305	10098212.4683	3144293.0582

40' C.O.A. TEMPORARY EASEMENT

POINT	NORTHING	EASTING
1303	10097001.0093	3146662.6395
1304	10097420.4069	3145847.9044
1305	10098212.4683	3144293.0582
1306	10098242.1061	3144289.9547
1307	10097442.7121	3145859.1956
1308	10097023.1493	3146674.2524

30' C.O.A. WATER & WASTEWATER EASEMENT
(54" WATER MAIN)

POINT	NORTHING	EASTING
1309	10095253.8062	3150677.6028
1310	10095280.3275	3150691.6248
1311	10094886.1445	3151437.1843
1312	10094859.6232	3151423.1623

C.O.A. WATER & WASTEWATER EASEMENT
(FIRE HYDRANT)

POINT	NORTHING	EASTING
1313	10094947.1496	3151515.7314
1314	10094961.5718	3151488.6413
1315	10094988.0529	3151502.7393
1316	10094973.6599	3151529.7745

7.5' C.O.A. ELECTRIC EASEMENT

POINT	NORTHING	EASTING
1317	10095709.3279	3151883.5975
1318	10095840.4459	3151609.6093
1319	10095847.2111	3151612.8468
1320	10095716.0101	3151887.0085

C.O.A. ELECTRIC EASEMENT

POINT	NORTHING	EASTING
1321	10096206.0959	3152137.1709
1322	10096377.3680	3151799.1895
1323	10096386.5124	3151803.2367
1324	10096232.1055	3152107.9369
1325	10096232.9751	3152150.8912

C.O.A. WATER MAIN EASEMENT

POINT	NORTHING	EASTING
1326	10095920.2104	3151334.7717
1327	10095924.8384	3151330.5891
1328	10096339.4412	3151412.4655
1329	10096338.4725	3151417.3708

C.O.A. ELECTRIC EASEMENT

POINT	NORTHING	EASTING
1330	10096303.0467	3151410.3748
1331	10096284.0229	3151427.1748
1332	10096280.7132	3151423.4270
1333	10096296.8437	3151409.1821

5' C.O.A. ELECTRIC EASEMENT

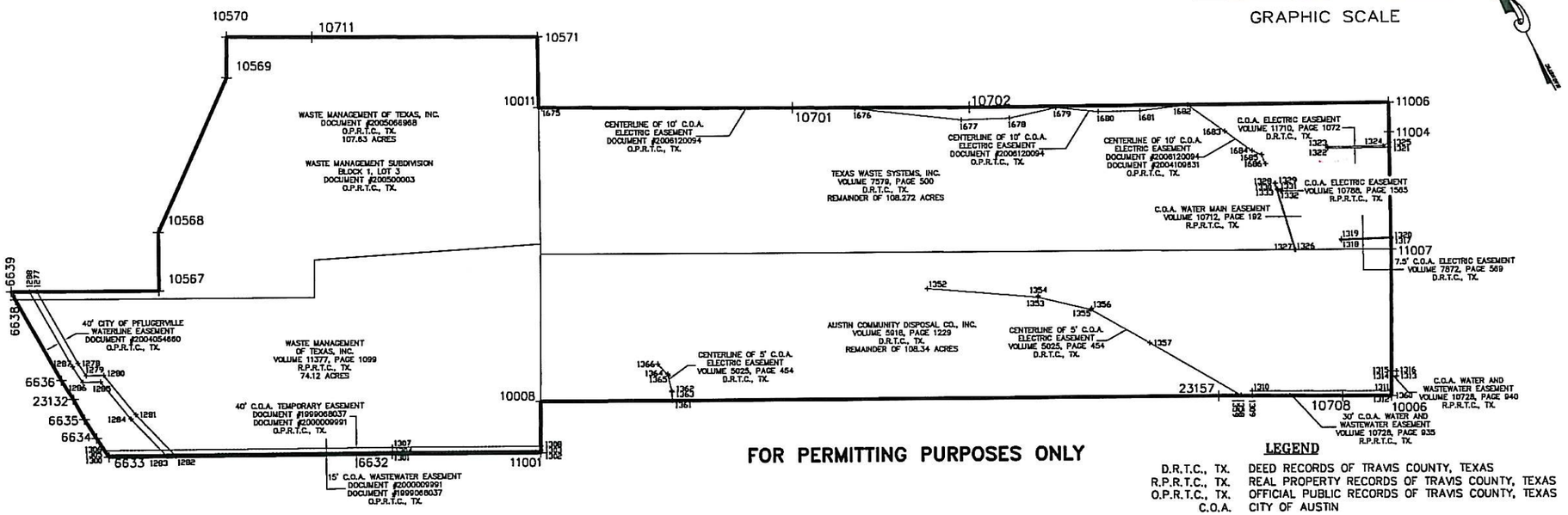
POINT	NORTHING	EASTING
1352	10096769.4993	3149223.5036
1353	10096405.6034	3149796.7581
1354	10096412.0832	3149801.4499
1355	10096185.1319	3150048.9829
1356	10096189.2633	3150055.8335
1357	10095834.6445	3150273.0690
1358	10095288.0201	3150619.2058
1359	10095304.4146	3150588.2830
1360	10094856.5596	3151433.0142

5' C.O.A. ELECTRIC EASEMENT

POINT	NORTHING	EASTING
1361	10096893.9935	3147516.3059
1362	10096948.9201	3147540.4529
1363	10096943.1146	3147538.9373
1364	10097051.4826	3147567.2284
1365	10097039.8732	3147567.2339
1366	10097133.7044	3147542.6435

10' C.O.A. ELECTRIC EASEMENT

POINT	NORTHING	EASTING
1675	10098848.9280	3147644.1750
1676	10097951.5560	3149346.8630
1677	10097583.9240	3149892.6950
1678	10097455.8090	3150156.9910
1679	10097378.5330	3150439.9700
1680	10097235.4370	3150658.1560
1681	10097119.7260	3150887.6580
1682	10097013.8160	3151164.6670
1683	10096765.5150	3151291.6110
1684	10096582.2430	3151383.8480
1685	10096532.0350	3151424.0880
1686	10096473.1640	3151418.6530



800' 600' 400' 200' 0' 400' 800'

GRAPHIC SCALE

FOR PERMITTING PURPOSES ONLY

LEGEND

D.R.T.C., TX.	DEED RECORDS OF TRAVIS COUNTY, TEXAS
R.P.R.T.C., TX.	REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS
O.P.R.T.C., TX.	OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS
C.O.A.	CITY OF AUSTIN

PERMIT BOUNDARY POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
6632	10097407.0702	3145841.0391	5/8" IRON PIPE FOUND
6633	10098194.6856	3144294.9202	5/8" IRON PIPE FOUND
6634	10098330.9658	3144280.6499	5/8" IRON PIPE FOUND
6635	10098468.0632	3144268.4542	5/8" IRON PIPE FOUND
6636	10098743.7468	3144255.1465	5/8" IRON PIPE FOUND
6638	10099313.3161	3144235.2122	5/8" IRON ROD FOUND
6639	10099369.4169	3144235.3292	5/8" IRON ROD FOUND
10006	10094854.8837	3151432.1265	CONCRETE MONUMENT FOUND
10008	10097264.7110	3146800.9563	1" IRON PIPE FOUND
10011	10098863.8676	3147629.6359	1" IRON PIPE FOUND
10567	10098958.2622	3145037.4422	5/8" IRON ROD FOUND
10568	10099278.0411	3145200.7091	5/8" IRON ROD FOUND
10569	10099918.9223	3146014.2139	5/8" IRON ROD FOUND
10570	10100140.1609	3146130.6551	5/8" IRON ROD FOUND
10571	10099249.2903	3147824.8876	60d NAIL FOUND
10702	10097628.1851	3149973.4850	1/2" IRON ROD FOUND
10701	10098137.1568	3149008.0646	1/2" IRON ROD FOUND
10708	10095164.5837	3150996.4138	1/2" IRON ROD SET WITH PLASTIC CAP
10711	10095411.9433	3150544.0658	1/2" IRON ROD SET WITH PLASTIC CAP
11001	10096987.7253	3146655.6718	1/2" IRON ROD SET WITH PLASTIC CAP
11004	10096289.5346	3152179.7618	1/2" IRON ROD SET WITH PLASTIC CAP
11006	10096450.6901	3152262.7087	1/2" IRON ROD SET WITH PLASTIC CAP
11007	10095649.9175	3151853.2718	1/2" IRON ROD SET WITH PLASTIC CAP
23132	10098607.0450	3144266.7590	5/8" IRON ROD FOUND
23157	10095349.7169	3150496.1967	1/2" IRON ROD SET WITH PLASTIC CAP

NOTES:

1. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT.
2. EASEMENT RECORDATION INFORMATION WAS PERFORMED BY MORGAN/BROOKS RESOURCES, INC. IN JULY, 2006.
3. RIGHT-OF-WAY AGREEMENT DESCRIBED BY AGREEMENT RECORDED UNDER DOCUMENT NO. 2004228846, OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS. DOES AFFECT.
4. THERE ARE NO DRAINAGE OR PIPELINE EASEMENTS LOCATED ON THE SITE.
5. THIS DRAWING DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. SAM, INC. DRAWING No. W026-23127-01 WAS PREPARED TO SHOW A COMPLETE BOUNDARY SURVEY OF THE PROPERTY SHOWN ON THIS DRAWING. SAM, INC. DRAWING No.'s W026-25168-01, 02, 04 AND SAM, INC. PROPERTY DESCRIPTION No. F.N. 4252 WERE ALSO PREPARED IN CONNECTION WITH THIS PROPERTY.

THIS "DRAINAGE, PIPELINE AND UTILITY EASEMENT LOCATION MAP" WAS PREPARED UNDER MY SUPERVISION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

STATE OF TEXAS
REGISTERED
MICHAEL R. HATCHER
4259
PROFESSIONAL
LAND SURVEYOR

AUGUST 7, 2006

MICHAEL R. HATCHER
REGISTERED PROFESSIONAL LAND SURVEYOR
No. 4259 - STATE OF TEXAS

NO.	REVISIONS	BY	DATE

PROJECT: WASTE MANAGEMENT OF TX, INC.
AUSTIN COMMUNITY LANDFILL
JOB NUMBER: 25168-01
DATE: AUGUST 7, 2006
SCALE: 1"=800'
PROJ.MANAGER: M.R.H.
TECHNICIAN: G. HANSON
DRAWING: BNDY-ESMT.DWG
FIELDNOTES: 4252
PARTYCHIEF: J. SANDOVAL
FIELDBOOKS:

SAM inc.
SURVEYING•AERIAL MAPPING•ENGINEERING
5508 WEST HIGHWAY 290
BUILDING B
Austin, Texas 78735
(512) 447-0575
Fax: (512) 326-3029

DRAINAGE, PIPELINE AND UTILITY EASEMENT LOCATION MAP
AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY
TRAVIS COUNTY, TEXAS

FIGURE 1-5

PLAT No. W026-25168-03

APPENDIX I/IID

PROPERTY OWNER AFFIDAVIT AND LEGAL AUTHORITY

PROPERTY OWNER AFFIDAVIT

"I, Steve Jacobs, as authorized signatory for:

Waste Management of Texas, Inc.
(property owner)

acknowledge that the State of Texas may hold Waste Management of Texas, Inc. either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the Austin Community RDF Transfer Station (the Site). Waste Management of Texas, Inc. further acknowledges that the owner or operator of the Site and the State of Texas shall have access to the Site during the active life, closure, and post-closure period, if required, after closure for the purpose of inspection and maintenance."

Steve Jacobs — 9-26-19 (Date)
Director of Landfill Operations, Waste Management of Texas, Inc.

SWORN TO AND SUBSCRIBED BEFORE ME by Mr. Steve Jacobs on this 26 day of September, 2019, which witnesses my hand and seal of office.

YAZMIRA OCASIO-MARTINEZ
Notary Public, State of Texas
Comm. Expires 03-19-2023
Notary ID 131936716

Notary Public in and for The State of Texas

Travis County, Texas

My Commission Expires: 3-19-2023

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Ruth R. Hughs
Secretary of State

Office of the Secretary of State

Certificate of Fact

The undersigned, as Secretary of State of Texas, does hereby certify that the document, Articles of Incorporation for WASTE MANAGEMENT OF TEXAS, INC. (file number 22300000), a Domestic For-Profit Corporation, was filed in this office on March 30, 1966.

It is further certified that the entity status in Texas is in existence.

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 24, 2019.

Ruth R. Hughs
Secretary of State

APPENDIX I/IIE

EVIDENCE OF COMPETENCY

EVIDENCE OF COMPETENCY

The facility will be owned and operated by Waste Management of Texas, Inc. (WMTX). WMTX is a wholly-owned subsidiary of Waste Management, Inc. (WM), a Delaware Corporation based in Houston, Texas, whose shares are publicly traded on the New York Stock Exchange. WM is an international provider of solid waste management services and specializes in collection, transfer, disposal, recycling, and other waste management services provided to municipal, commercial, industrial, and residential customers. Also note that this evidence of competency includes information for WMTX's wholly-owned subsidiary, USA Waste of Texas Landfills, Inc.

Solid Waste Facility Operation

WMTX has operated municipal solid waste disposal facilities in Texas since 1980. The table presented below lists the Texas solid waste facilities that have been owned and/or operated by WMTX (including their subsidiary USA Waste of Texas Landfills, Inc.) in the past ten years unless otherwise indicated.

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
Waste Management of Texas, Inc. Facilities:				
Atascocita Recycling and Disposal Facility (RDF)	I	1307D	Harris	1991 to Present
Atascosa County Transfer Station	V	1871	Atascosa	1991 to 2014 (permit cancelled)
Austin Community RDF	I	249D	Travis	1983 to Present
Baytown Landfill	I	1535B	Chambers	1995 to Present
City of Conroe/Western Waste	I	81A	Montgomery	1995 to 2011
Coastal Plains RDF	I	1721A	Galveston	1991 to Present
Cougar Landfill	IV	1921A	Harris	1995 to Present
Covel Gardens Landfill	I/ Class 1	2093B	Bexar	1992 to Present
DeKalb Transfer Station	V	40009	Bowie	1994 to 2015 (rescinded permit)
DFW RDF	I	1025B	Denton	1980 to Present
Eagle Pass Transfer Station	V	40042	Maverick	1994 to 2006
Harker Heights Transfer Station	V	2213	Bell	1994 to 2009
Hillside Landfill	I	523B	Grayson	1996 to Present
Jourdanton Transfer Station	V	1871	Atascosa	1999 to Closed (voluntary revocation 2014)
Kingsland Transfer Station	V	40003	Llano	1994 to 1998
Lacy Lakeview RDF	I	1646A	McLennan	1986 to Present

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
Matagorda County Transfer Station	V	40028	Matagorda	1999 to 2009
Mesquite Creek Landfill	I	66B	Comal/Guadalupe	1987 to Present (formerly Comal County Landfill)
New Boston Landfill	I	576B	Bowie	1999 to Present
Newton County Regional Solid Waste Complex	I/ Class 1	2242A	Newton	1995to Present
Pecan Prairie RDF	I	1503	Hunt	1989 to Present
Pittsburg Transfer Station	V	40174	Camp	1999 to 2013
Rosillo Creek Landfill	I	1986	Bexar	1990 to Permit Cancelled Oct 2015
Security Landfill	I	1752B	Montgomery	1992 to Present
Skyline Landfill	I	42C	Dallas/Ellis	1987 to Present
Southeast Landfill	I	218A	Tarrant	1982 to 2003
Temple RDF	I	692A	Bell	1993 to Present
Urban Waste Landfill	IV		Harris	1998 to 2000
Conroe/Western Waste Industrial	Class 1	SW39001	Montgomery	1995 to Present
Westside RDF	I	1019A	Tarrant	1983 to Present
Westside Transfer Station	V	40186	Tarrant	2003 to Present
Wharton Transfer Station	V	2099	Wharton	1991 to 2014 (voluntary revocation)
Williamson County RDF	I	1405B	Williamson	1998 to Present
Winnsboro Transfer Station	V	40058	Wood	2000 to 2015 (registration revoked)
USA Waste of Texas, Inc. (wholly-owned subsidiary of WMTX) Facilities:				
Fairbanks Landfill	IV	1565B	Harris	1998 to Present
Greenshadows Landfill	IV	1540A	Harris	1995 to Present
Hawthorn Park Landfill	IV	2185	Harris	1995 to Present
Sam Houston Transfer Station	V	1471	Harris	1998 to Present
Koenig Street Transfer Station	V	1483A	Harris	1998 to Present

WMTX has no financial interests outside the state of Texas.

Management and Personnel

The WMTX principals and supervisors who will be involved in the management and operations of the facility are:

Mr. Donald J. Smith, Vice President

Mr. Smith holds the title of Area Vice President with WMTX and has responsibility for the overall management of WMTX and its wholly owned subsidiaries' operations throughout Texas. He has over 28 years of experience in the solid waste industry, and in addition to being currently responsible for all WMTX and affiliate operations in this geographic area, he also handles regulatory and legislative affairs in the state of Texas pertaining to the solid waste industry.

Mr. Steve Jacobs, Director of Landfill Operations

Mr. Jacobs has over 33 years of experience in the solid waste industry, both in municipal solid waste and hazardous waste landfill operations and management. He has held a variety of positions ranging from equipment operator, to landfill manager, to a corporate region manager and an area manager, and now as a director of disposal operations in a two-state corporate region. Through this he has gained a broad experience in the areas of landfill and earthwork construction. Mr. Jacobs was affiliated with Browning Ferris Industries, Inc. (BFI) for 18 years and CECOS International (a wholly-owned subsidiary of BFI) for 4 years before moving to WMTX. Mr. Jacobs has held positions of steadily increasing responsibility for personnel management and corporate financial management. He joined WMTX as an area manager, and transitioned to greater responsibility into his current position where he is responsible for the operations of multiple municipal solid waste landfills in Texas and Oklahoma. He holds a current Texas MSW Facility Class A license for supervising or managing a MSW facility.

Mr. Charles Rivette, P.E., Director of Planning and Project Development

Mr. Rivette has over 28 years of experience in the operations and management of municipal and hazardous waste landfills. He has been involved with all aspects of landfill management during that period. Mr. Rivette was affiliated with BFI for 11years prior to moving to WMTX. Presently, Mr. Rivette works daily with operations management of over 20 municipal solid waste landfill facilities in Texas. These responsibilities include profit/loss; regulatory compliance; oversight of permitting, engineering, environmental compliance, landfill liner and final cover construction; personnel safety and training; and community relations activities. His role is consistent with that of the "Area Landfill Operations Manager" described in the Fairbanks Landfill Site Operating Plan. He holds a Texas Professional Engineer (P.E.) license, and holds a Texas MSW Facility Class A license for supervising or managing a MSW facility.

Mr. Tim Champagne, Environmental Protection Manager

Mr. Champagne is currently the environmental protection manager for various WMTX Texas MSW facilities. He has over 25 years of experience in the solid waste industry, including over 14 years of direct involvement with environmental compliance issues related to municipal solid waste in Texas. He is responsible for managing environmental compliance programs and related regulatory coordination at six municipal solid waste landfills, as well as eight other solid waste facilities in facility.

Facility Manager

The Facility Manager will have and maintain a Class B license as a municipal solid waste facility supervisor in accordance with 30 TAC, Chapter 30, Subchapter F: Municipal Solid Waste Facility Supervisors. The Facility Manager will be responsible for day-to-day operations.

Employees

The aforementioned management team and Facility Manager will provide oversight and training for employees at the facility.

APPENDIX I/IIF

APPOINTMENT LETTERS

WASTE MANAGEMENT

AUSTIN COMMUNITY TRANSFER STATION
A WASTE MANAGEMENT COMPANY

9900 Giles Road
Austin, Texas 78754
(512) 272-6245
(512) 272-8960 Fax

September 25, 2019

Texas Commission on Environmental Quality (TCEQ)
Municipal Solid Waste Permits Section, Waste Permits Division
12100 Park 35 Circle
Austin, Texas 78753

Subject: Notice of Appointment
Registration Application
Type V MSW Facility
Austin Community Transfer Station
Austin, Travis County, Texas

To Whom it May Concern:

I am a corporate officer of Waste Management of Texas, Inc. (WMTX). I also hold the title of Area Vice President and I have responsibility for the overall management of WMTX and its wholly owned subsidiaries' operations throughout Texas. I hereby delegate authority to the following two individuals: 1) Mr. Steve Jacobs, Director of Disposal Operations; and 2) Mr. Charles A. ("Chuck") Rivette, P.E., Director of Planning and Project Development. These individuals are both authorized to act as agents for WMTX in the execution of this registration application for the above-referenced Type V MSW facility, and to sign documents and conduct other business in connection with the TCEQ registration application.

Very truly yours,

Donald J. Smith
President, Waste Management of Texas, Inc.

STATE OF TEXAS §
§
COUNTY OF HARRIS §

SWORN TO AND SUBSCRIBED BEFORE ME by Mr. Donald J. Smith on this 25th day of September, 2019, which witnesses my hand and seal of office.

HAZEL T LUNDY
Notary ID #128041518
My Commission Expires
July 27, 2021

Notary Public in and for The State of Texas

Hazel T. Lundy
Printed Name

My Commission Expires: July 27, 2021

WASTE MANAGEMENT

AUSTIN COMMUNITY
TRANSFER STATION
A WASTE MANAGEMENT COMPANY

9900 Giles Road
Austin, Texas 78754
(512) 272-6245
(512) 272-8960 Fax

September 25, 2019

Texas Commission on Environmental Quality (TCEQ)
Municipal Solid Waste Permits Section, Waste Permits Division
12100 Park 35 Circle
Austin, Texas 78753

Subject: Notice of Appointment
Registration Application
Type V MSW Facility
Austin Community Transfer Station
Austin, Travis County, Texas

To Whom it May Concern:

This is to advise you that Waste Management of Texas, Inc. (WMTX) has appointed Geosyntec Consultants, Inc. (Geosyntec) as the design and registration engineering consulting firm for the purposes of submitting engineering reports, planning material, plans, drawings, specifications, responses to comments, and related data for the above-referenced registration application. Mr. Scott M. Graves, P.E. of Geosyntec, a licensed Professional Engineer in good standing in the State of Texas, is the responsible engineer for this project and for the overall preparation of this registration application.

We herewith authorize you to review and comment on such reports, planning material, plans, drawings, specifications, and related data that Geosyntec Consultants may submit to you pertaining to this registration.

Sincerely,

Steve Jacobs
Director of Landfill Operations

APPENDIX I/IIG

LAND USE

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

Permit MSW-249D
Travis County, Texas

January 20, 2005
Revised September 6, 2006

Prepared by:
RVi
712 Congress Avenue, Suite 300
Austin, Texas 78701
512.480.0032

INTRODUCTION and DEFINITION OF TERMS

The Austin Community Recycling and Disposal Facility (ACRDF) is an existing Type I landfill located at the northeast fringe of Austin, Texas, in Travis County. The current permit boundary is approximately 289 acres. Permit MSW-249D contemplates a lateral expansion of approximately 71 acres, thereby bringing the total permit boundary to approximately 360 acres. The analysis contained herein is largely focused on the 360-acre permit boundary; however, it is occasionally useful to refer only to the 71-acre expansion, particularly when determining the net effects of the change. For the sake of clarity, the following terms are used to distinguish permit boundaries from one another:

Existing permit boundary: approximately 289 acres, comprising the current permitted area

Expansion area or *expansion permit boundary:* approximately 71 acres, comprising only the expansion site (MSW-249D)

Total permit boundary: approximately 360 acres, comprised of the existing and expansion permit boundaries

When considering surrounding land use within one mile of the permit boundary, the analysis excludes the permit boundary in question. The area of land within one mile of the total permit boundary is approximately 4478 acres. The area of land within one mile of the expansion permit boundary is approximately 2892 acres.

ZONING

The easternmost 200 feet of the existing permit boundary—that portion with frontage on Giles Road—is within the city of Austin and is zoned DR and P-CO. The definitions of these districts are as follows:

DR: development reserve – intended to prevent premature land development
P-CO: public, with conditional overlay – governmental uses

The balance of the existing landfill permit boundary is not within the city limits of Austin and is not zoned, nor is the expansion permit boundary within the city limits.

Zoning within two miles of the landfill is depicted on Figure LU-1. Figure LU-1 was derived from published zoning maps for the facility and the surrounding areas, including the area within two miles of the facility. The zoning maps used to create Figure LU-1 are included in the appendix to this report.

By virtue of its location in the extra-territorial jurisdiction of Austin, local governments having jurisdiction over the facility, or portions thereof, are the City of Austin and Travis County. Copies of special permits or approvals obtained from these local governments are included in the appendix to this report.

CHARACTER OF SURROUNDING LAND USES

Solid waste disposal is a significant land use within one mile of the expansion site, both historically and geographically. The following brief chronology was paraphrased from Austin Community Landfill Expansion; Permit Amendment Application 249-C; Part A (15 September 1989).

> In 1968, the approximately 153-acre "Precinct 1 Site" began operating as a landfill, immediately south of the existing ACRDF site. In 1982 the site was closed and has subsequently been reused (partially) as a flea market site.
>
> In 1982, the 352-acre site immediately north of the existing ACRDF site was permitted by the Texas Department of Health. This site is known as Sunset Farms and is operated by BFI.
>
> In 1974, the approximately 215-acre site now known as ACRDF began operation, and in 1990, the site was expanded by adding 74 acres to the permit boundary. The ACRDF now proposes to add another 71 acres to its permit boundary, by virtue of this application.

In terms of size, location and history, the expansion site does not represent a significant change in land use patterns and relationships within one mile of the site. Because the expansion site is essentially cradled by two existing landfills, the net effect on the vicinity is minimal. In fact, of the 2892 acres of land within one mile of the expansion site, 2874 acres of land (more than 99%) is already within one mile of an operating landfill. (Refer to Figure LU-2.) Moreover, of the 2892 acres within one mile, approximately 796 acres (27%) are or were used as landfills.

The expansion is exceptional in that it occurs within an area that already has substantial solid waste activities; it therefore represents only incremental change. Nevertheless, because the expansion is an addition to an existing permit boundary, this land use analysis subsequently considers the impact of the total permit boundary upon the resultant one-mile vicinity. As a result, the total area of analysis within one mile of the total permit boundary is 4478 acres (excluding the permit boundary) and it is this larger area that is addressed herein, unless otherwise indicated.

The largest land use category within one mile of the total permit boundary is "open", which comprises more than 70% of the vicinity land area. "Open" is a land use category that includes vacant, agricultural and rights-of-way land uses. Refer to Figure LU-3 and Table LU-1.

Table LU-1, Land Use within One Mile

Land Use	Area in Acres	Percentage	Remarks
Open	3,141	70.1 %	
Industrial	700	15.6 %	
Residential	374	8.4 %	1183 existing units
Recreational	119	2.7 %	3 recreation areas, 1 golf course
Commercial	68	1.5 %	
Institutional	41	0.9 %	City/County facilities
Water	35	0.8 %	Stock tanks
Total	4,478 acres	100 %	

The next largest land use within one mile of the total permit boundary is "industrial". This land use comprises 700 acres within one mile (more than 15% of the land area). Examples of nearby industrial activities include:

- An active landfill to the north
- A large manufacturer of semiconductor wafer fabrication equipment to the east
- A pipeline terminal/fuel storage facility to the south
- Numerous warehouse/distribution facilities, all essentially served by US Highway 290

The next largest land use is existing or developing "residential", comprising 8.4% (374 acres) of the land area within one mile. Approximately 80% of the residential units are single family housing, most of which are concentrated in either the Harris Branch subdivision to the east or the Springdale Road/US 290 area subdivisions to the west. Refer to Figure LU-3.

All other land uses (recreational, commercial, institutional, water) comprise less than 6% of the vicinity land area, collectively. Refer to Table LU-1.

GROWTH TRENDS

The total ACRDF site is within Austin Planning Area 22 (PA 22)—the northeast fringe sector of Austin. From 1990 to 2000, PA 22 was the most rapidly growing sector of the Austin metropolitan area. More specifically, PA 22 grew by 133% from 1990 to 2000, increasing from 40,528 to 94,522 persons. In both absolute and relative terms, PA 22 was the fastest growing of the 26 planning areas of Austin.

In more general terms, from 1990 to 2000, the predominant direction of residential growth in the Austin area has been north. The three fastest growing sectors of the city are northeast (PA 22), north central (PA 21), and northwest (PA 20).

All of the planning areas for the City of Austin are depicted in Figure LU-4. The 1990 and 2000 population data for the planning areas are indicated in Table LU-2.

Table LU-2, Population Growth by Austin Planning Areas

Planning Area	1990 Population	2000 Population	Absolute Change	Percent Change
PA 1	47,648	51,356	3,708	7.8 %
PA 2	24,114	25,745	1,631	6.8 %
PA 3	23,374	27,491	4,117	17.6 %
PA 4	13,335	19,959	6,624	49.7 %
PA 5	26,079	33,389	7,310	28.0 %
PA 6	18,608	30,318	11,710	62.9 %
PA 7	13,849	27,226	13,377	96.6 %
PA 8	55,518	71,914	16,396	29.5 %
PA 9	31,126	33,278	2,152	6.9 %
PA 10	32,192	43,544	11,352	35.3 %
PA 11	33,432	35,937	2,505	7.5 %
PA 12	23,839	39,105	15,266	64.0 %
PA 13	19,359	27,295	7,936	41.0 %
PA 14	31,116	39,059	7,943	25.5 %
PA 15	16,180	32,494	16,314	100.8 %
PA 16	28,616	31,242	2,626	9.2 %
PA 17	40,785	44,673	3,888	9.5 %
PA 18	10,611	13,502	2,891	27.2 %
PA 19	31,895	57,976	26,081	81.8 %
PA 20	19,425	42,665	23,240	119.6 %
PA 21	37,540	85,046	47,506	126.5 %
PA 22	***40,528***	***94,522***	***53,994***	***133.2 %***
PA 23	12,538	22,787	10,249	81.7 %
PA 24	12,962	14,986	2,024	15.6 %
PA 25	16,280	29,898	13,618	83.6 %
PA 26	18,509	30,630	12,121	65.5 %

data source: City of Austin, Transportation Planning & Sustainability Department
(original source used by city: US Census, 1990 & 2000)

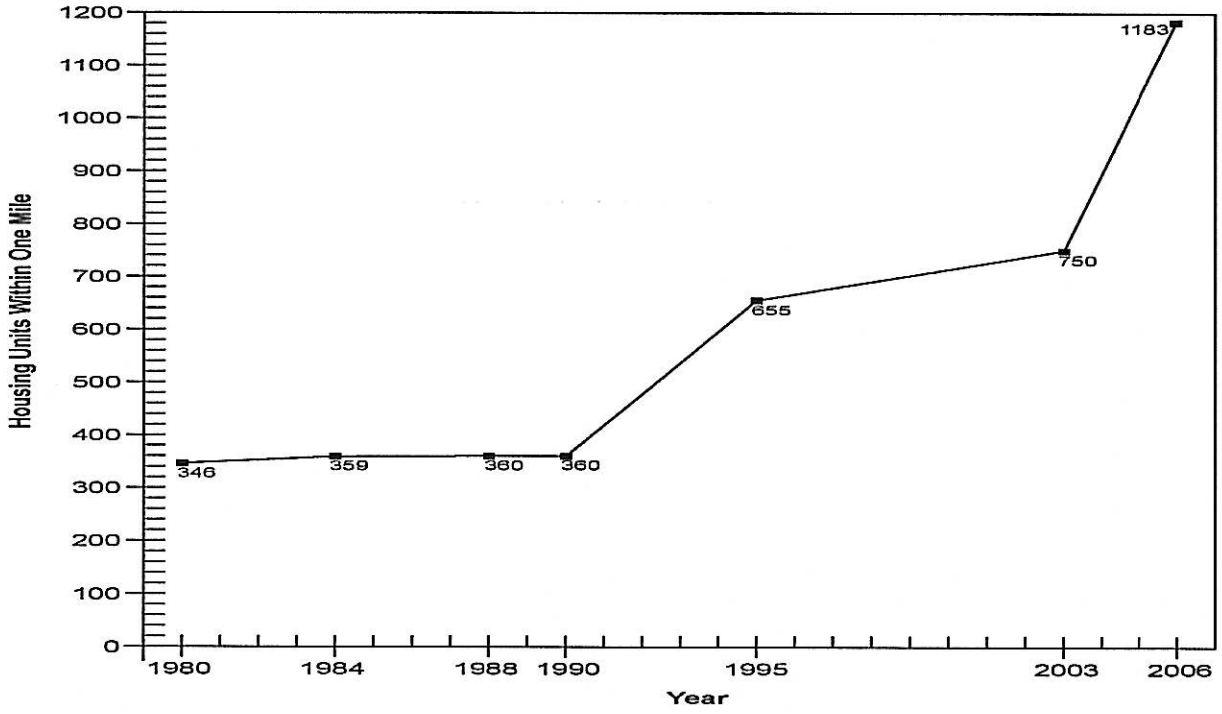
In order to analyze more recent growth trends within five miles of the facility, the firm of Capitol Market Research was engaged to update census materials based upon building permit data and builder and developer surveys. These more recent data, as well as projections through the year 2015, indicate that the five-mile radius around the ACRDF has continued and will continue to experience substantial residential growth. From 2000 through the first half of 2006, the area within five miles increased by 6580 households, from 49,447 households to 56,027. This amount of household formation represents slightly more than 10% of all households formed within Travis County for that same period. Growth of households within five miles is projected to continue at a robust pace because:

1) there are substantial employers within five miles,
2) the planned single-family lots (19,637) and planned multi-family units (10,777) within five miles represent a considerable supply of yet-to-be-built potential, and
3) the soon-to-be-completed segment of SH 130 within five miles will stimulate additional demand.

Much of the residential growth within five miles is occurring within major new subdivisions east of the ACRDF, although a significant proportion is also occurring at the redevelopment site of the former Mueller airport, five miles southwest of the ACRDF.

Residential growth trends within one mile of the permit boundary have been estimated based upon historical aerial photographs and field inventories. The results are as follows; refer also to Figures LU-5 through LU-10.

Table LU-3, Housing Units Within One Mile, By Year



From a broader public policy perspective, the expansion of ACRDF is consistent with the City of Austin growth management policies. The three major policy goals for the *Smart Growth Initiative* are:

1. *Determine How and Where We Grow*, including delineation of the desired development zone and the drinking water protection zone.
2. *Improve Our Quality of Life*, including preserving and enhancing neighborhoods, protecting environmental quality, improving accessibility and mobility and strengthening our economy.
3. *Enhance Our Tax Base*, including building and enhancing tax base through strategic investments and efficient use of public funds

The City has designated the area around the ACRDF as the "desired development zone" (Refer to Figure LU-11).

Reinforcing these goals are the results of the more recent *Envision Central Texas* initiative, a five county approach to addressing growth for the region, with an emphasis on land use, transportation, and the environment. A summary published in December 2003 indicated that the top five concerns of 12,000 survey respondents were:

1. transportation/congestion
2. air quality
3. cost of living
4. jobs
5. water quality

In summary, public policies and preferences indicate that expanding ACRDF adjacent to its current location is consistent with or supportive of regional growth trends and larger land use issues. This is particularly true if alternative sites are considered.

PROXIMITY

Based on field inventories performed in October and November 2003, May 2004, and August 2006, and a review of aerial photography (dated September 23, 2003), it is estimated that there are 1183 existing residences located within one mile of the total permit boundary. The nearest existing residence is approximately 326 feet southwest of the total permit boundary, in the Colonial Place subdivision. The expansion, per se, does not change the distance to the most proximate residence; refer to Figure LU-3.

An estimated 56 business establishments are within one mile of total permit boundary. The Sunset Farms Landfill, operated by BFI, adjoins the expansion site and is the nearest business establishment. The expansion, per se, does not change the distance to the most proximate business establishment.

One school, Bluebonnet Trail Elementary School (11316 Farmhaven Road), is 4823 feet northwest of the total permit boundary. The expansion, per se, does not change the distance to the school.

One daycare center is found within one mile of the total permit boundary. This center, the Children's Courtyard (11012 Harris Branch Parkway), is located approximately 3445 feet northeast of the total permit boundary. The expansion, per se, does not change the distance to the daycare center.

One historic site—the Barr Mansion (10463 Sprinkle Road)—is located within a mile of the total permit boundary. The structure was built in 1898 and is currently used as an event facility. The expansion, per se, does not change the distance to the Barr Mansion.

There are no hospitals, cemeteries, churches, archaeologically significant sites, nor sites of exceptional aesthetic quality within one mile of total permit boundary.

There is one general aviation airport (Bird's Nest Airport) 5.1 miles northeast of the total permit boundary. The runways are turf/gravel. The airport is not used by turbojet aircraft and does not serve regularly scheduled flights.

CONCLUSIONS

The use of this land for a municipal solid waste site represents a compatible land use for the following reasons:

1. Because the 71-acre expansion site abuts two active landfills, together totaling approximately 641 acres, the expansion in itself does not represent a significant change in area land use relationships.

2. The existing site has been permitted as a landfill since 1974.

3. The expansion site does not get closer to any land use activity of interest or concern. The shortest distances to residences, businesses, schools, day care, and historic sites remain unchanged.

4. The expansion site is not zoned.

5. The landfill is classified as an industrial use and it is located in an historically industrial corridor.

6. From 1990 to 2000, the northeast sector of Austin experienced the greatest population growth of any area of the city. Residential growth since 2000 continues to be robust, and is projected to continue to be strong through at least 2015. All current landfill activities have been occurring during this time period.

7. Municipal and regional growth policies suggest that ACRDF is sited consistent with major goals and concerns.

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RICHARDSON VERDOORN

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

FIGURE LU-1
ZONING

Legend

ZONING DISTRICT

SF-1	Single Family, large lot
RR	Rural Residence
MF-3	Multifamily, medium density
LO	Limited Office
GO	General Office
GR	Community Commercial
W/LO	Warehouse Limited Office
CS	General Commercial Services
LI	Limited Industrial Services
DR	Development Reserve
PUD	Planned Unit Development
P	Public

ADDITIONAL MODIFIERS

-CO	Conditional Overlay
I-	Interim

NOT ZONED

NORTH

NOT TO SCALE

DATA SOURCES:
City of Austin, Department of Planning & Development
Golder Associates

JOHN WORRALL CONSULTING
Land Use
Aesthetics
Reclamation
phone 830-825-3029
email jworrall@att.net

L:\263122\Regulatory\zoning.dwg August 25, 2006

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FIGURE LU-2
SOLID WASTE FACILITIES

LAND USE ANALYSIS
AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

SCALE
0 400 800 1600

DATA SOURCES:
Golder Associates
ACE Consulting Engineers

AERIAL PHOTOGRAPHY:
September 23, 2003

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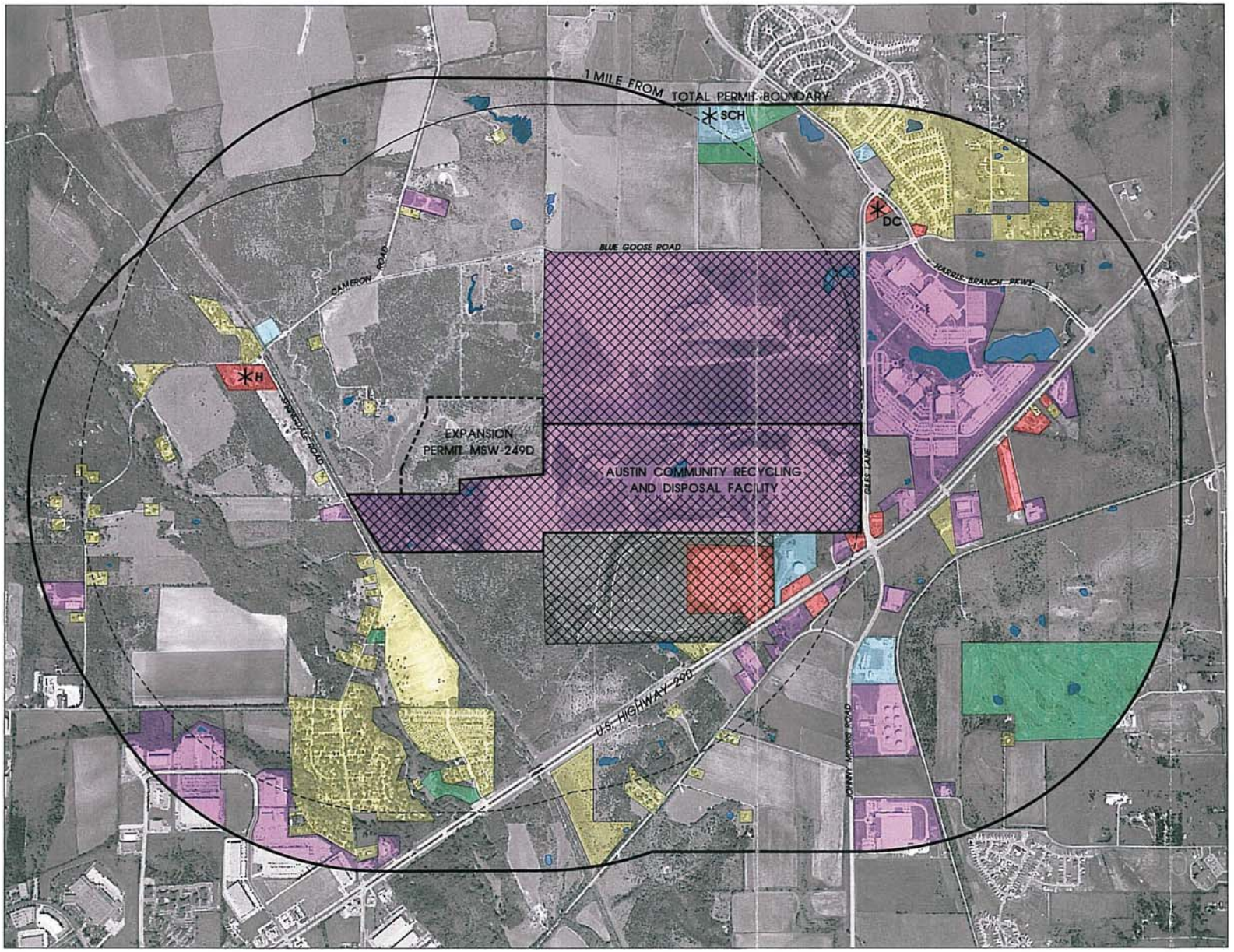

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LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

FIGURE LU-3
LAND USE

Legend

LAND USE

- Open (includes agriculture, rights of way, & vacant land)
- Industrial
- Residential
- Recreational
- Commercial
- Institutional
- Water

- ✳DC Day Care
- ✳H Historic Site
- ✳SCH School

- Landfill Site (past or present)

NORTH

SCALE
0 400 800 1600

DATA SOURCES:
Field Inventory, July 17, 2006
Golder Associates

AERIAL PHOTOGRAPHY:
September 23, 2003

JOHN WORRALL CONSULTING
Land Use
Aesthetics
Reclamation
phone 830-825-3029
email jworrall@att.net

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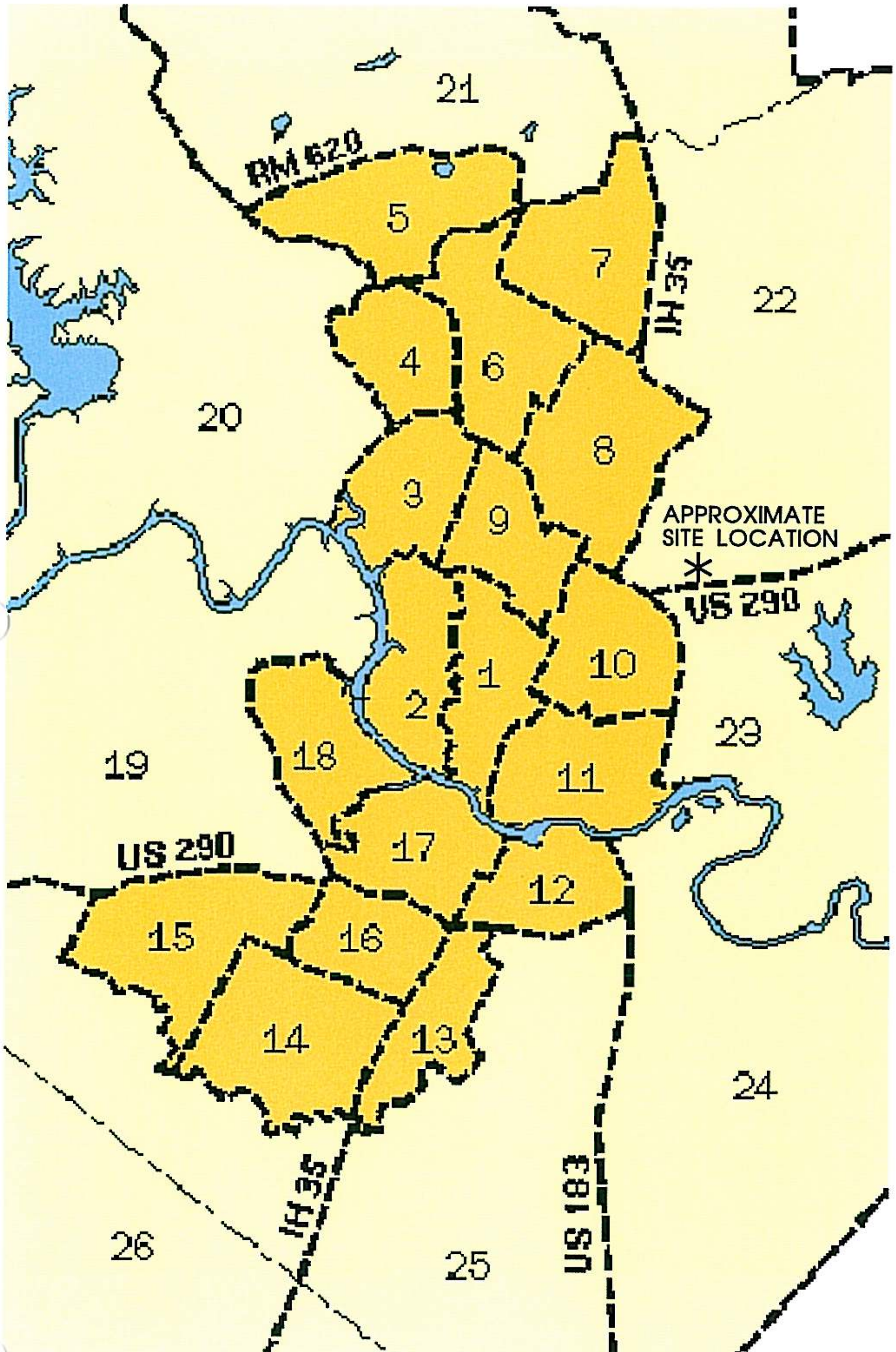

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FIGURE LU-4
CITY of AUSTIN PLANNING AREAS

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

DATA SOURCES:
City of Austin, Transportation Planning & Sustainability Dept.

NOT TO SCALE

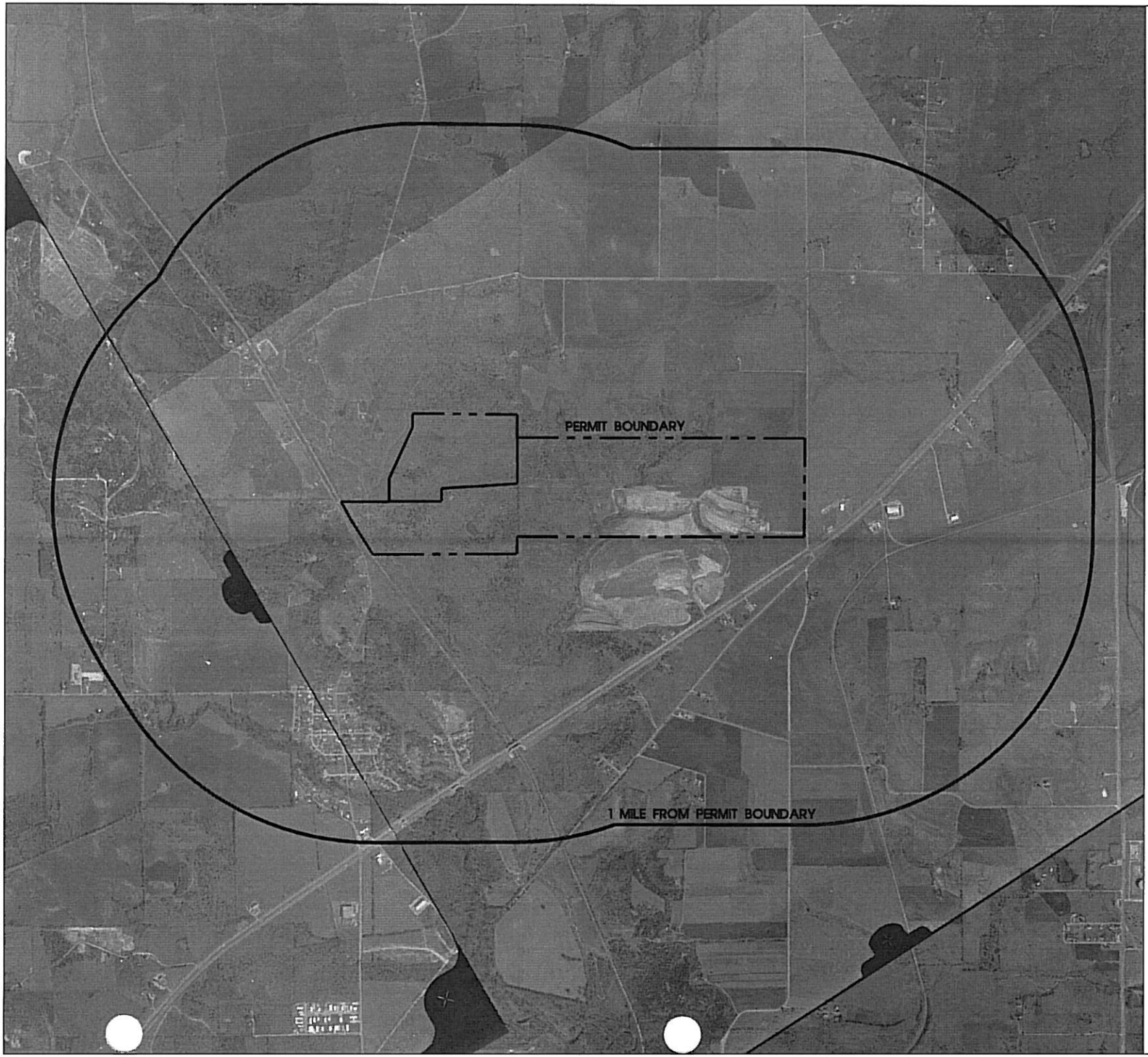

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FIGURE LU-5
1980 AERIAL

Active Landfills:	2
Estimated Residences:	346
Schools:	0
Day Care Centers:	0

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: Nov. 18, 1980
Source: Texas Dept. of Transportation

SCALE
0 600 1200 2400

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FIGURE LU-6
1984 AERIAL

Active Landfills:	2
Estimated Residences:	359
Schools:	0
Day Care Centers:	0

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: Dec. 7, 1984
Source: MPSI Maps Inc.

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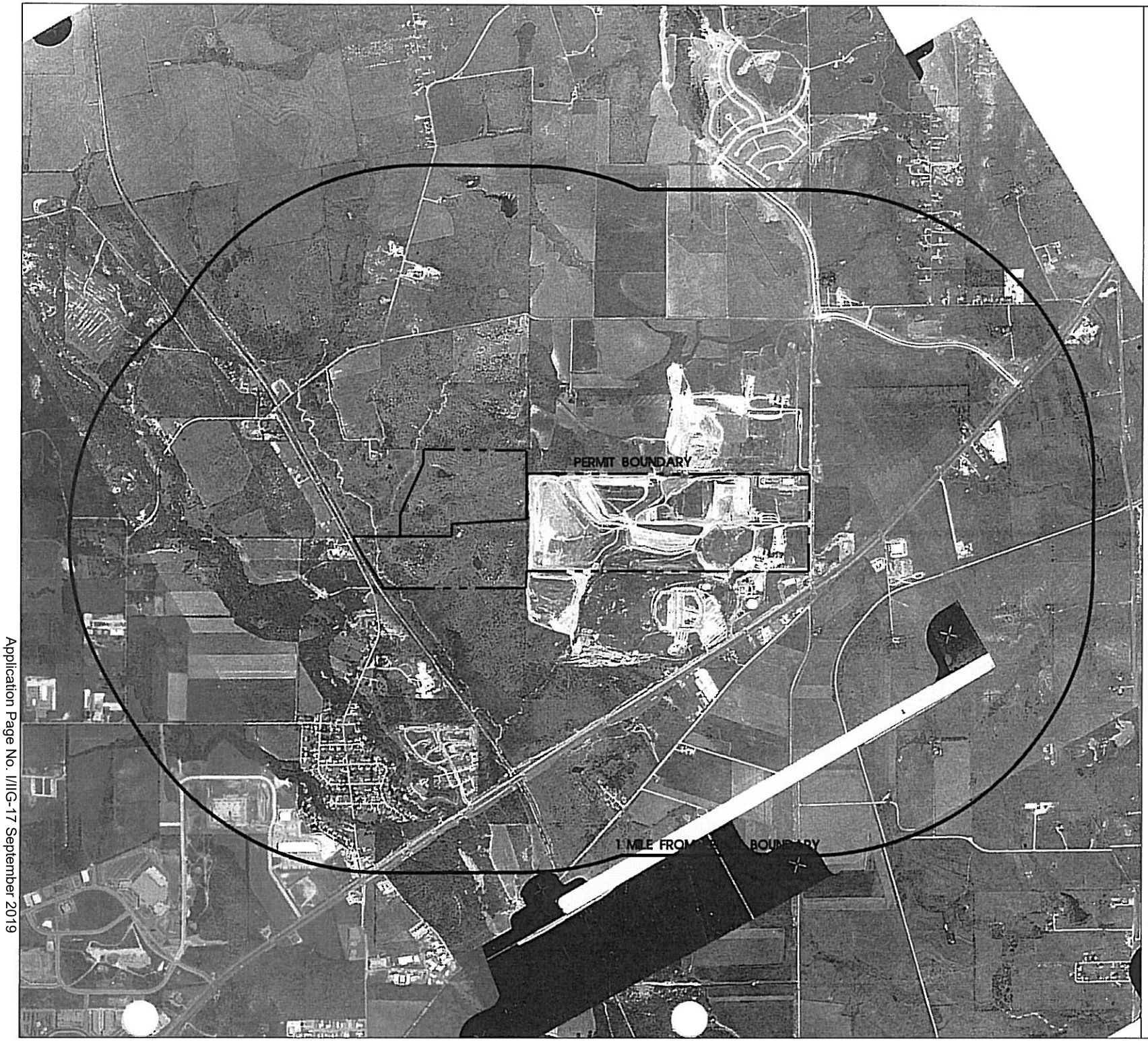

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FIGURE LU-7
1988 AERIAL

Active Landfills:	2
Estimated Residences:	360
Schools:	0
Day Care Centers:	0

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: June 9, 1988
Source: Texas Dept. of Transportation

SCALE
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FIGURE LU-8
1990 AERIAL

Active Landfills:	2
Estimated Residences:	360
Schools:	0
Day Care Centers:	0

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: 1990
Source: Aerotech

SCALE
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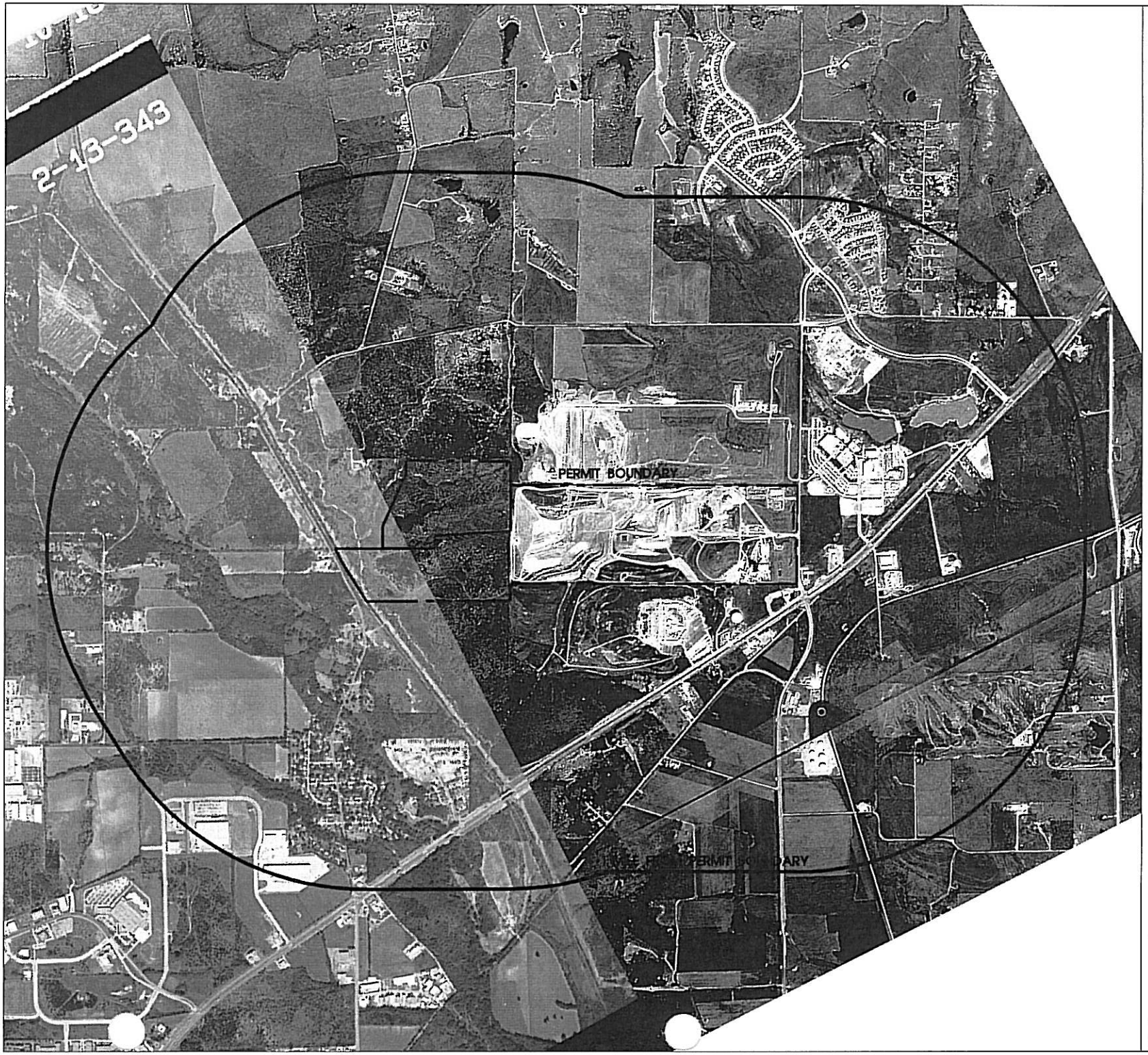

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FIGURE LU-9
1995 AERIAL

Active Landfills:	2
Estimated Residences:	655
Schools:	1
Day Care Centers:	0

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: Oct. 16, 1995
Source: Texas Dept. of Transportation

SCALE
0 600 1200 2400

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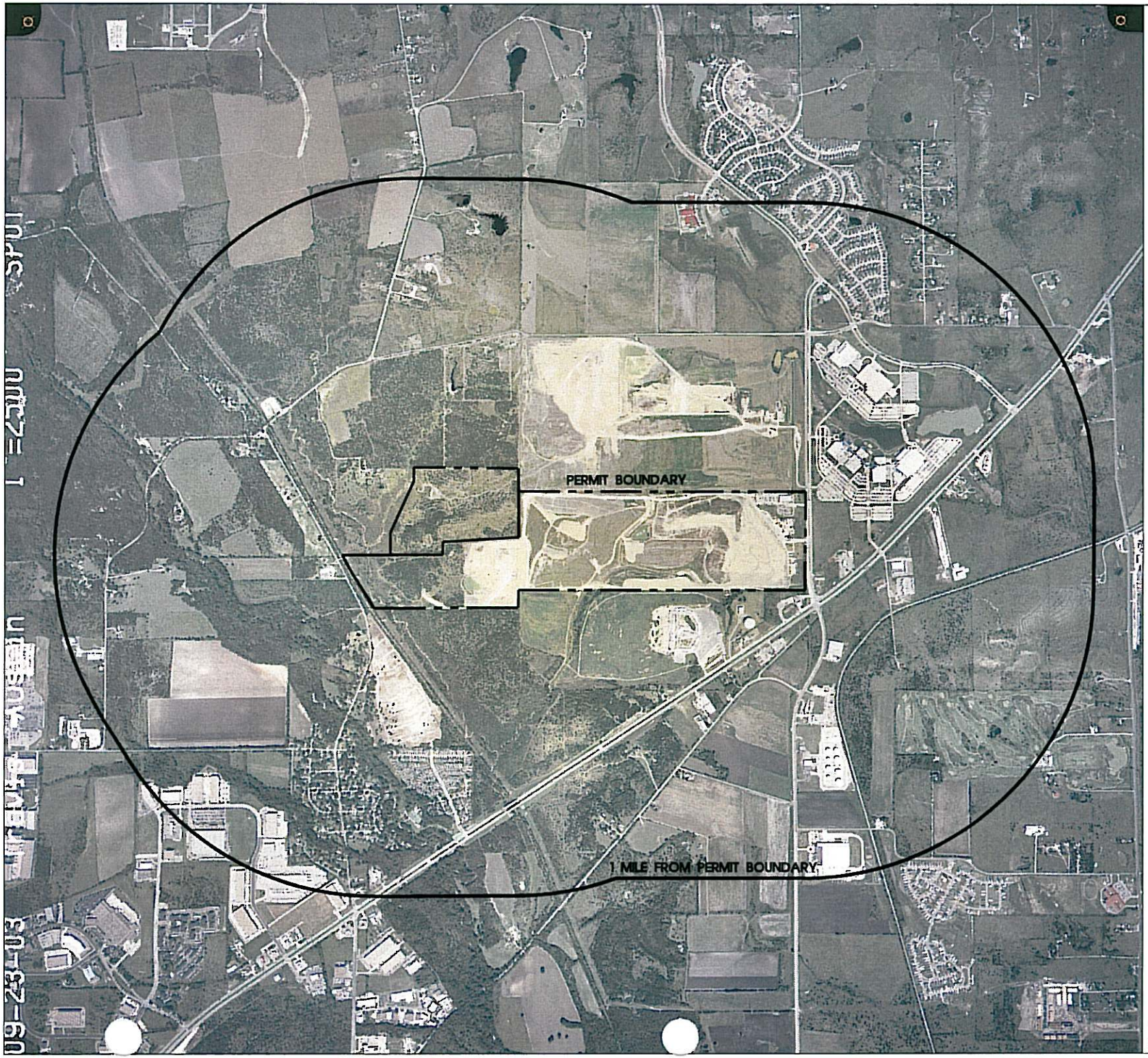

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FIGURE LU-10
2003 AERIAL

Active Landfills:	2
Estimated Residences:	750
Schools:	1
Day Care Centers:	1

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

AERIAL PHOTOGRAPHY
Date: Sept. 23, 2003
Source: Golder Associates

SCALE
0 600 1200 2400

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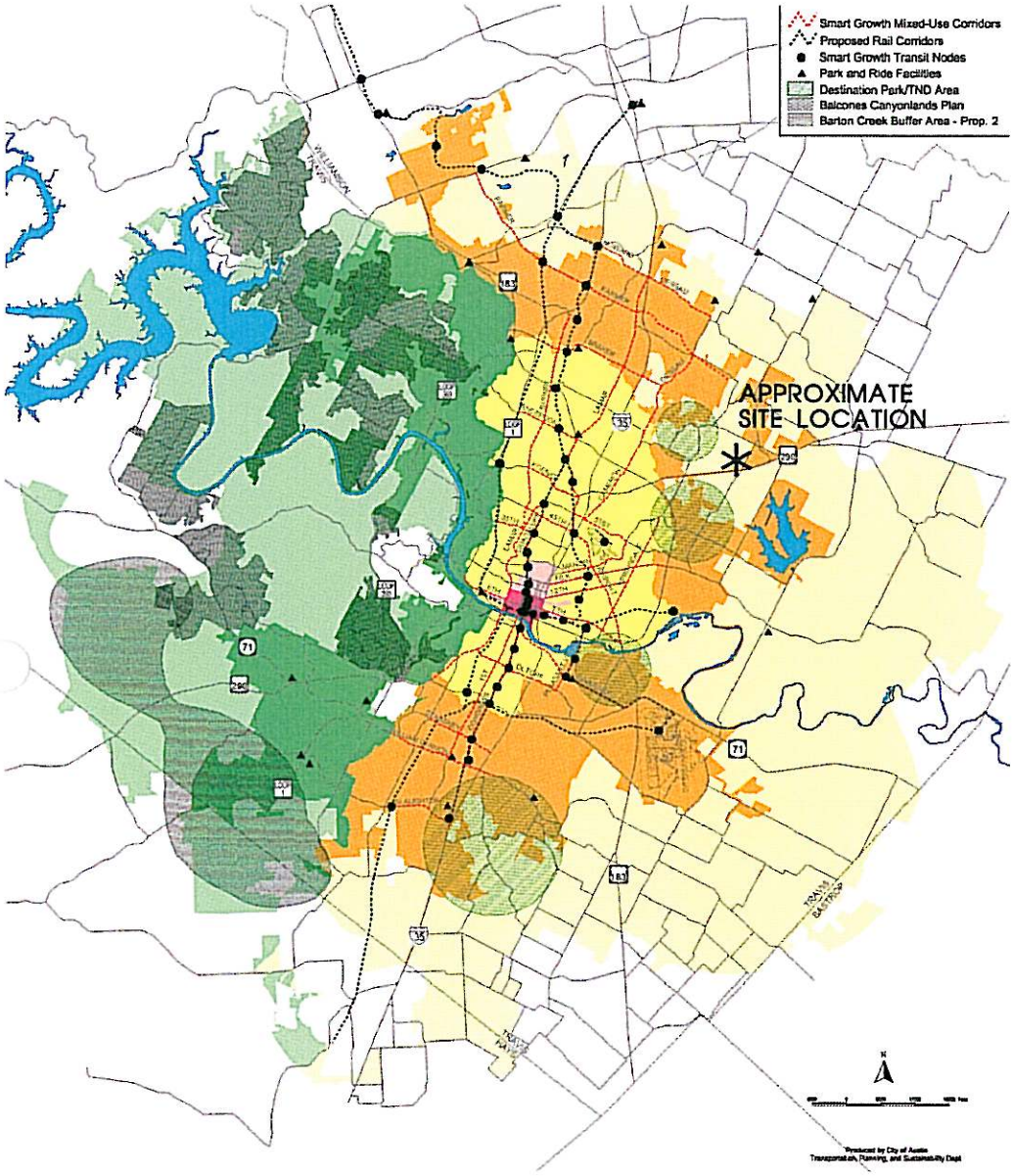
FIGURE LU-11
CITY of AUSTIN SMART GROWTH ZONES



Legend

✳ Approx. Site Location

LAND USE ANALYSIS

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

NORTH

DATA SOURCES:
City of Austin, Transportation Planning & Sustainability Dept.

NOT TO SCALE
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APPENDIX

City of Austin Permit

Travis County Permit

Recorded Plat

City of Austin Zoning Maps

City of Austin Watershed Protection and Development Review
505 Barton Spring • P.O. Box 1088 • Austin, Texas 78704

CITY OF AUSTIN
SITE PLAN DEVELOPMENT PERMIT

Permit No.: SP-05-1541D **Expiration Date: July 19, 2009**
Project Name: Waste Management of Texas-Wilder Tract
Location Description: 9900 Giles Lane
Watershed: Walnut Creek
Owner of Property: Waste Management, Inc. (Steve Jacobs)
Address: 9900 Giles Lane, Austin, Texas 78754 **Ph. # (512) 563-4495**
Owner's Representative: Doucet & Associates, Inc. (Carol Stewart)
Address: 7401-B Hwy 71 West, Suite 160, Austin, Texas 78735 **Ph. # (512) 583-2600**
Legal Description: Lots 1-3, Block 1 Waste Management Subdivision

PERMIT IS HEREBY ISSUED FOR:

The expansion of an existing landfill, relocation of an existing critical environmental feature within the detention pond wetland mitigation site and construction of drainage facilities on 71.68 acres.

The project is located in Walnut Creek Watershed, and is subject to all watershed protection regulations as set forth in Chapter 25 of the City of Austin Code of Ordinances. This project is located within the City of Austin 2-mile ETJ.

CONDITIONS OF PERMIT

It is agreed that the proposed development shall be performed and completed in accordance with the plans and specifications approved by the City of Austin Standard Specifications and Code requirements, and State of Texas construction safety statutes. All development approved by this permit is subject to the inspection and control of the City of Austin.

It is the responsibility of the permit holder to identify all utilities in the work area and to notify each utility of the scope of work in the immediate area of the utilities.

ENGINEER'S CERTIFICATION: Inspection and a "Certification of Completion" by a Texas Licensed Engineer is required for the development approved by this permit. No Certificate of Occupancy may be approved until the Engineer's Certification is filed. The engineer is responsible for the adequacy of the plans submitted with this application.

SPECIAL CONDITIONS:

For WASTE MGMT, INC. 06/20/06
Signature of Applicant Owner Date

Permit Approved by City of Austin Date 6/19/06

NOTICE OF CLASS "B"
TRAVIS COUNTY FLOOD HAZARD AREA
DEVELOPMENT PERMIT

This Permit No 05-3001 **is issued on** 6/14/2006 **and is effective immediately.**

This Permit is Issued to: WASTE MANAGEMENT OF TEXAS
and is not transferrable.

This Permit authorizes the permittee to construct development in strict compliance with the requirements of Travis County Flood Plain Management Regulations on the following described property:

LOT 1-3	WASTE MANGEMENT SUB	
9900 GILES LANE		
Tax Id 0234310505	125.89	Acres
Non-Residential	Landfill EXPANSION	

Elevation certificate completion is not **required.**

Mechanical and Electrical Inspection is not required.

Special Provisions are attached.

This permit shall be posted in a location where it is visable to the public, protected from weather, and secure from vandalism and will remain posted until work is complete.

The permittee shall have an Elevation Certificate completed in compliance with Regulations Sec. 5.E. and/or mechanical and electrical inspections, if required.

The lowest Floor shall be at or above the elevation N/A ft. MSL

Notes:
Compliance with the Endangered Species Act is the responsibility of the
Issuance of this permit does not imply compliance with deed and/or plat restrictions.
Contact Travis County Prior to Construction.
Inspector: Lee Walton/Dan Scott 854-9114

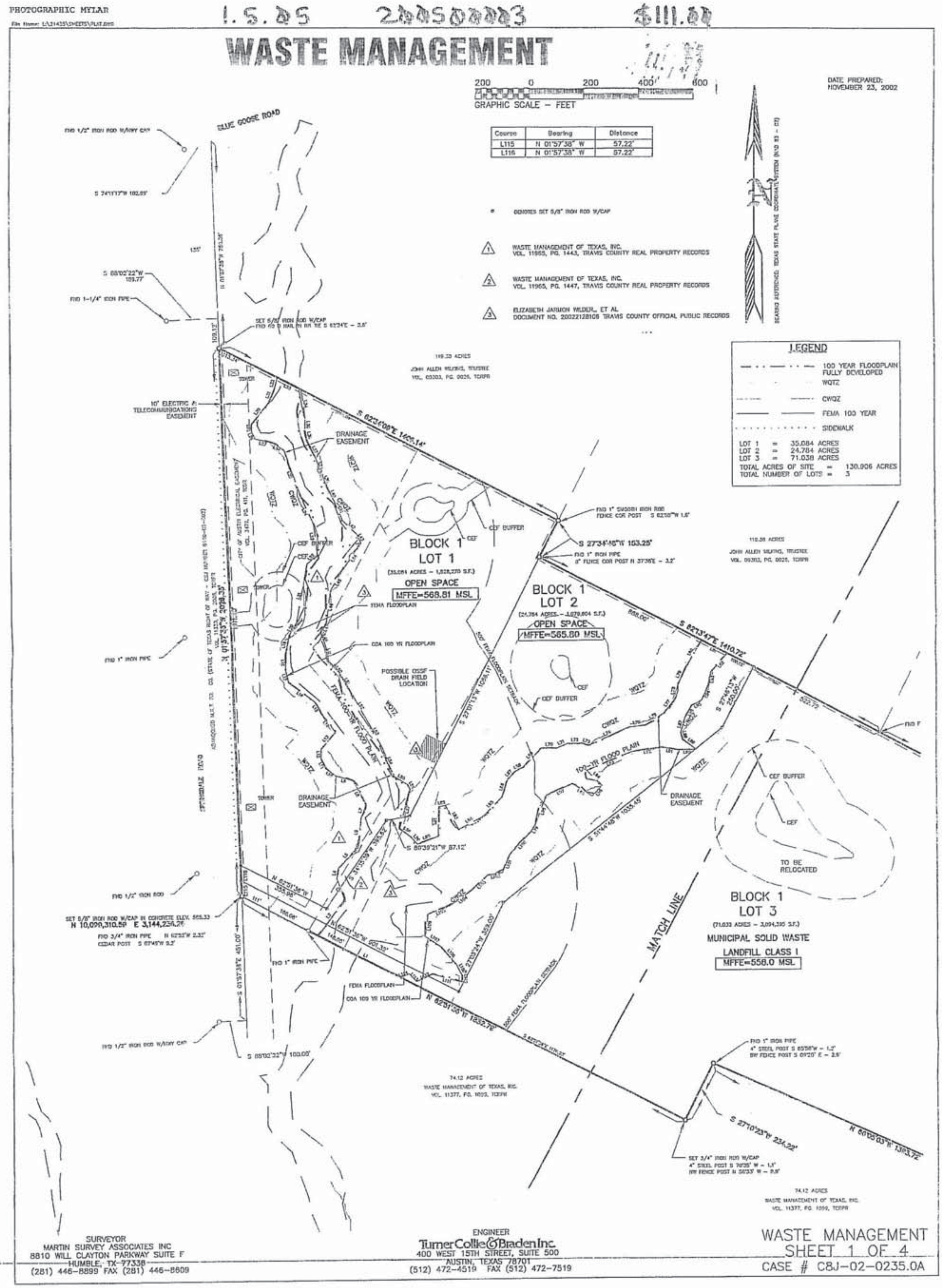
Stacey Scheffel
Floodplain Administrator
Travis County
Transportation and Natural Resources

Special Provisions:

All development shall be in accordance with plans reveiwed by Travis County

Issuance of this permit is based solely on the applicant's compliance with the limited provisions of Chapter 82 and Chapter 64, Travis County Code. It does not directly or indirectly constitute Travis County's acquiescence with the applicant's proposed land use of finding or determining (1) that the applicant's proposed land use is compatible with surrounding land uses, (2) that the site is otherwise suitable for the applicant's proposed land use, or (3) that the applicant has adequately mitigated or can adequately mitigate all impacts that its proposed land use would have on adjacent properties or the community.

Created by Stacey Scheffel 4/19/00

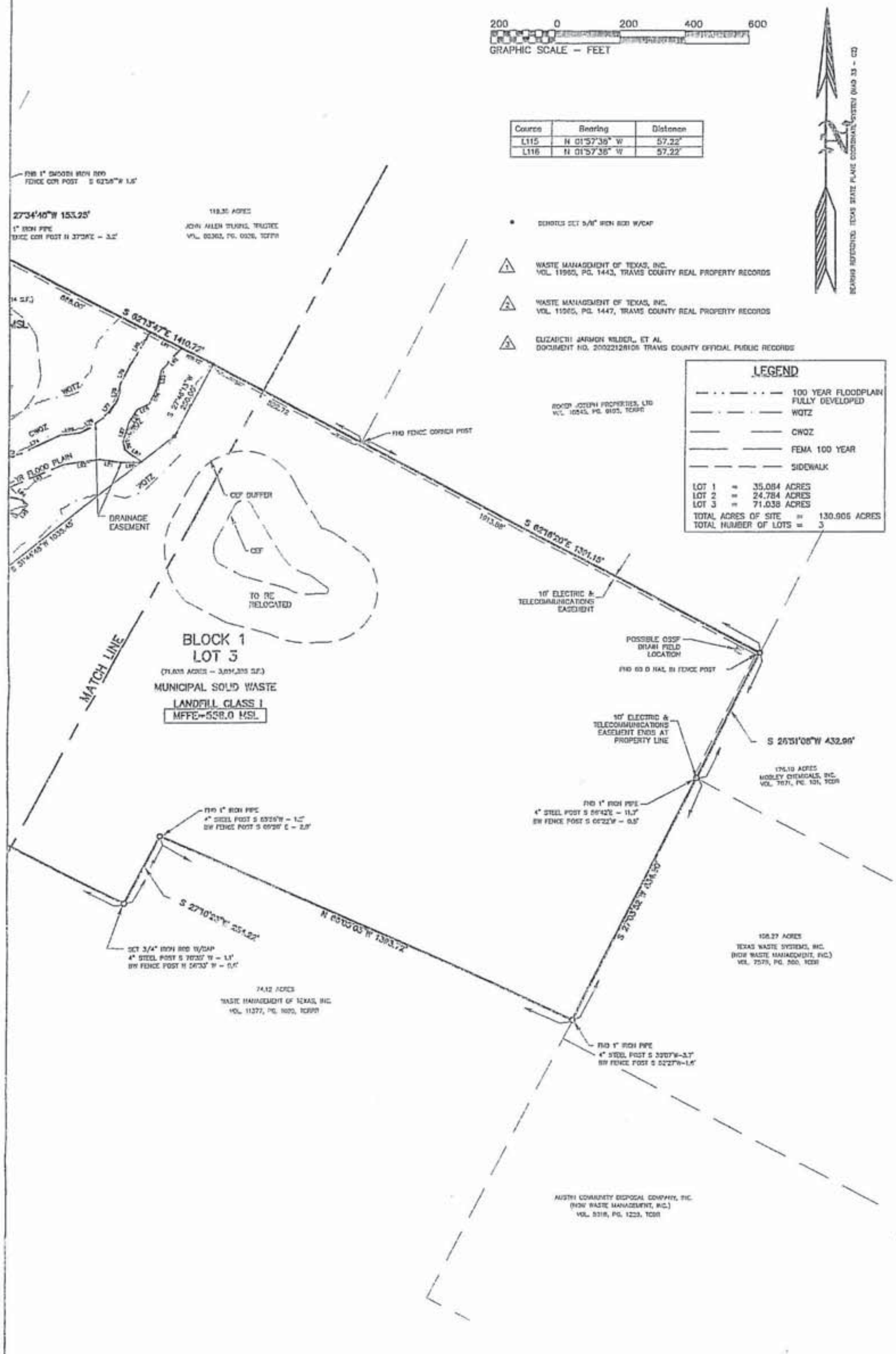

PHOTOGRAPHIC MYLAR
WASTE MANAGEMENT
GRAPHIC SCALE – FEET
DATE PREPARED: NOVEMBER 23, 2002
Course | Bearing | Distance
L115 | N 01°57'38" W | 57.22'
L116 | N 01°57'38" W | 57.22'
DENOTES SET 5/8" IRON ROD W/CAP
WASTE MANAGEMENT OF TEXAS, INC. VOL. 11965, PG. 1443, TRAVIS COUNTY REAL PROPERTY RECORDS
WASTE MANAGEMENT OF TEXAS, INC. VOL. 11965, PG. 1447, TRAVIS COUNTY REAL PROPERTY RECORDS
ELIZABETH JARMON WILDER, ET AL DOCUMENT NO. 2002212810S TRAVIS COUNTY OFFICIAL PUBLIC RECORDS
LEGEND
100 YEAR FLOODPLAIN FULLY DEVELOPED
WQTZ
CWQZ
FEMA 100 YEAR
SIDEWALK
LOT 1 = 35.084 ACRES
LOT 2 = 24.784 ACRES
LOT 3 = 71.038 ACRES
TOTAL ACRES OF SITE = 130.906 ACRES
TOTAL NUMBER OF LOTS = 3
BLUE GOOSE ROAD
BLOCK 1 LOT 1
OPEN SPACE
MFFE=568.81 MSL
BLOCK 1 LOT 2
OPEN SPACE
MFFE=565.80 MSL
BLOCK 1 LOT 3
MUNICIPAL SOLID WASTE
LANDFILL CLASS I
MFFE=558.0 MSL
DRAINAGE EASEMENT
CEF BUFFER
TO BE RELOCATED
MATCH LINE
POSSIBLE OSSF DRAIN FIELD LOCATION
SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8809
ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519
WASTE MANAGEMENT
SHEET 1 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR

1.5.05 2005000003 $111.00

WASTE MANAGEMENT

DATE PREPARED:
NOVEMBER 23, 2002



Course	Bearing	Distance
L1	N 62°51'36" W	340.28'
L2	N 37°39'13" E	161.73'
L3	N 19°37'49" W	83.24'
L4	N 10°45'36" E	38.03'
L5	N 42°48'03" E	105.67'
L6	N 06°54'54" E	111.76'
L7	N 21°45'18" E	46.98'
L8	N 26°27'30" W	104.23'
L9	N 74°23'45" W	67.54'
L10	N 53°27'02" W	44.36'
L11	N 27°15'19" W	39.86'
L12	N 01°10'09" W	35.56'
L13	N 41°20'17" E	84.03'
L14	N 37°13'52" W	90.90'
L15	N 30°01'52" W	46.36'
L16	N 53°27'02" W	119.08'
L17	N 14°22'28" W	44.38'
L18	N 01°10'09" W	59.84'
L19	N 11°02'47" E	73.19'
L20	N 30°46'44" E	55.53'
L21	N 10°47'22" E	219.73'
L22	N 49°38'35" E	50.18'
L23	N 07°21'29" W	127.60'
L24	N 24°01'37" W	110.87'
L25	N 19°51'55" W	183.79'
L26	N 57°28'42" W	53.17'
L27	N 77°14'31" W	63.03'
L28	N 27°15'19" W	30.80'
L29	N 01°10'09" W	25.12'
L30	N 36°39'15" E	104.27'
L31	N 23°23'47" E	47.53'
L32	N 14°12'05" E	49.03'
L33	S 62°34'09" E	101.08'
L34	N 07°24'47" W	104.82'
L35	N 00°11'16" W	44.62'
L36	S 12°35'21" E	40.96'
L37	S 25°20'41" E	73.65'
L38	N 16°59'46" W	48.14'
L39	N 24°11'14" W	67.75'
L40	N 25°50'38" W	51.71'
L41	S 22°45'22" E	76.62'
L42	N 44°37'53" W	76.42'
L43	S 24°18'37" E	35.80'
L44	N 34°50'26" E	121.04'
L45	N 31°41'11" E	84.86'
L46	N 08°20'11" E	119.67'
L47	N 29°33'04" E	44.14'
L48	N 18°49'00" W	56.81'
L49	N 11°08'55" W	52.51'
L50	S 41°02'28" E	69.60'
L51	N 31°05'14" W	98.76'
L52	N 29°27'16" W	141.76'
L53	N 28°57'35" W	100.43'
L54	N 20°53'17" W	108.97'
L55	N 57°34'56" W	61.44'
L56	S 27°15'19" E	20.42'
L57	S 15°12'56" W	151.46'
L58	S 52°49'50" E	51.06'
L59	S 41°47'56" E	36.64'
L60	N 70°07'15" E	81.69'
L61	N 01°11'53" E	111.10'
L62	N 83°11'17" E	24.88'
L63	S 20°20'14" E	101.99'
L64	N 61°35'20" E	100.49'
L65	N 44°22'57" E	103.14'
L66	N 17°58'42" E	60.17'
L67	N 43°51'16" E	39.18'
L68	N 64°07'11" E	35.72'
L69	N 44°26'03" E	87.80'
L70	S 89°16'04" E	56.47'
L71	N 67°55'17" E	42.39'
L72	S 89°59'57" E	54.57'
L73	S 71°06'17" E	24.40'
L74	N 65°43'44" E	161.59'
L75	N 84°00'49" E	60.23'
L76	N 57°10'10" E	83.19'
L77	N 37°51'24" E	66.25'
L78	N 10°10'11" E	51.42'
L79	N 25°52'49" E	68.14'
L80	N 30°20'29" E	118.00'
L81	S 62°13'46" E	109.12'
L82	S 42°17'30" W	92.72'
L83	S 11°02'47" W	50.00'
L84	S 25°52'49" W	60.14'
L85	S 64°07'11" W	39.37'
L86	S 31°14'01" W	49.70'
L87	S 16°08'25" W	57.98'
L88	S 15°05'37" E	26.67'
L89	S 53°47'07" E	63.45'
L90	S 89°36'31" W	70.02'
L91	N 80°19'13" W	58.38'
L92	S 82°03'10" W	110.23'
L93	S 67°42'04" W	179.29'
L94	S 45°03'36" E	78.22'
L95	S 42°14'10" W	53.62'
L96	N 56°54'07" W	86.08'
L97	S 66°27'30" W	106.07'
L98	S 21°03'57" W	119.62'
L99	S 33°15'01" W	26.59'
L100	S 43°35'00" W	117.40'
L101	S 22°49'58" W	73.76'
L102	S 80°45'15" W	54.16'
L103	S 47°23'24" W	82.24'
L104	S 54°42'05" W	88.04'
L105	S 69°12'27" W	93.40'
L106	S 07°43'14" W	80.40'
L107	S 56°59'30" E	68.82'
L108	S 40°46'36" E	86.07'
L109	S 27°15'19" E	47.05'
L110	S 01°10'09" E	24.24'
L111	N 74°10'37" W	113.45'
L112	S 65°53'26" W	64.15'
L113	N 43°51'15" W	39.55'
L114	S 69°16'16" W	35.59'

SURVEYOR
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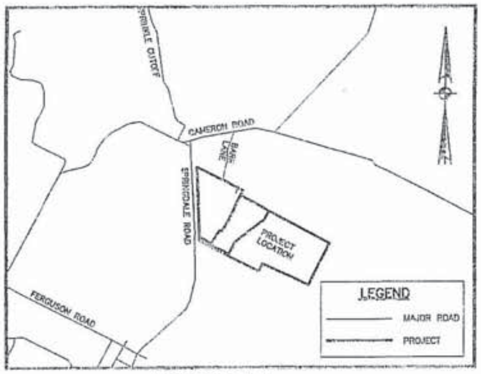
WASTE MANAGEMENT
SHEET 2 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR
File Name: [illegible]

1.5.05 200500003 $111.00

WASTE MANAGEMENT



LOCATION MAP
N.T.S.

1. THIS PROJECT IS LOCATED IN THE WALNUT CREEK WATERSHED, A SUBURBAN WATERSHED

2. ALL LOTS IN THIS SUBDIVISION SHALL HAVE USES OTHER THAN RESIDENTIAL.

3. NO DEVELOPMENT SHALL BE ALLOWED ON LOT 1 AND LOT 2 (OPEN SPACE LOT). OPEN SPACE LOT WILL BE MAINTAINED BY OWNER.

4. ALL STREETS WILL BE CONSTRUCTED TO APPLICABLE CITY OF AUSTIN AND TRAVIS COUNTY STANDARDS.

5. OFF-STREET LOADING AND UNLOADING FACILITIES SHALL BE PROVIDED ON ALL COMMERCIAL AND INDUSTRIAL LOTS.

6. WASTEWATER AND POTABLE WATER FOR LOT 3 WILL BE PROVIDED BY THE FACILITIES ON THE ADJACENT WASTEMANAGEMENT PROPERTY. LOT 1 AND 2 DO NOT REQUIRE SERVICE BECAUSE THEY ARE OPENSPACE LOTS.

7. THE OWNER OF THIS SUBDIVISION, AND HIS OR HER SUCCESSORS AND ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF THE CITY OF AUSTIN. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR REPLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.

8. THE OWNER OF THIS SUBDIVSION, AND HIS OR HER SUCCESSORS AND ASSIGNS, MUST MAKE PROVISIONS FOR PERPETUAL MAINTENANCE AND TAXATION FOR PRIVATELY HELD STREETS, ALLEYS, EASEMENTS, PARKS AND OTHER OPEN SPACES CONTAINED IN THIS SUBDIVISION.

9. PRIOR TO CONSTRUCTION, EXCEPT SINGLE FAMILY AND/OR DUPLEX ON ANY LOT IN THIS SUBDIVISION, A SITE DEVELOPMENT PERMIT MUST BE OBTAINED FROM THE CITY OF AUSTIN

10. DRAINAGE EASEMENTS WITHIN LOT BOUNDARIES WILL BE KEPT CLEAR OF FENCES, BUILDINGS, LANDSCAPING, AND OTHER OBSTRUCTIONS EXCEPT AS APPROVED BY THE CITY OF AUSTIN AND COUNTY OF TRAVIS.

11. ALL DRAINAGE EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER OR ASSIGNS.

12. THE PROPERTY OWNER SHALL PROVIDE ACCESS TO DRAINAGE EASEMENTS AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS BY GOVERENMENTAL AUTHORITIES.

13. PORTIONS OF THIS SITE ARE WITHIN THE 100 YEAR FLOODPLAIN AS DEFINED BY FEMA FIRM PANEL 48453C0120E DATED JUNE 16, 1993 AND/OR DRAINAGE STUDY BY TURNER COLLIE AND BRADEN INC.

14. THE 100-YEAR FLOOD PLAIN SHALL BE CONTAINED WITHIN THE DRAINAGE EASEMENT AS SHOWN HEREON. NO LOTS SHALL BE DEVELOPED ADJACENT TO THE DRAINAGE EASMENT UNTIL DRAINAGE IMPROVMENTS HAVE BEEN SATISFACTORILY COMPLETED AND APPROVED BY THE COUNTY ENGINEER/CITY OF AUSTIN.

15. HEAVEY EQUIPMENT AND WASTE HAULING VEHICLES WILL NOT ACCESS THE SITE FROM SPRINGDALE ROAD.

16. EROSION/SEDIMENTATION CONTROLS ARE REQUIRED FOR ALL CONSTRUCTION ON EACH LOT, PERSUANT TO LDC SECTION 25-8-181, AND THE ENVIRONMENTAL CRITERIA MANUAL.

17. WATER QUALITY CONTROLS ARE REQUIRED FOR ALL DEVELOPMENT WITH IMPERVIOUS COVER IN EXCESS OF 20% OF THE NET SITE AREA OF EACH LOT PURSUANT TO LDC SECTION 25-8-211.

18. CONSTRUCTION ON ALL LOTS WILL NOT CAUSE PONDING, EROSION OR INCREASED FLOW ON ADJACENT PROPERTIES.

19. PRIOR TO CONSTRUCTION ON LOTS IN THE SUBDIVISION, DRAINAGE PLANS WILL BE RESUBMITTED TO COA FOR REVIEW. RAINFALL RUNOFF SHALL BE LIMITED TO EXISTING UNDEVELOPED AMOUNT BY PONDING OR OTHER METHODS.

20. TRACTS OF LAND ACCESSED ONLY BY MEANS OF DEDICATED EASEMENT WILL BE ASSIGNED ONLY ONE HOUSE NUMBER BASED UPON THE JUNCTURE OF THE EASEMENT WITH THE NAMED STREET. ALL TRACTS OF LAND THUS ACCESSED WILL BE ASSIGNED UNIT NUMBERS BASED UPON THEIR RELATIVE LOCATION ON THE EASEMENT.

21. AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

22. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

23. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

24. TRAVIS COUNTY DEVELOPMENT PERMIT REQUIRED PRIOR TO ANY SITE DEVLEOPMENT.

25. SIDEWALKS ALONG SPRINGDALE ROAD ARE REQUIRIED TO BE CONSTRUCTED BY THE PROPERTY OWNER AFTER THE ABUTTING ROADWAY IS IMPROVED AND CONCRETE CURBS ARE IN PLACE. FAILURE TO CONSTRUCT THE REQUIRED SIDEWALKS MAY RESULT IN THE WITHHOLDING OF CERTIFICATES OF OCCUPANCE, BUILDING PERMITS, OR UTILITY CONNECTIONS BY THE GOVERNING BODY OR UTILITY COMPANY.

29. WITHIN A CRITICAL ENVIRONMENTAL FEATURE BUFFER ZONE, THE NATURAL VEGETATIVE COVER MUST BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE, CONSTRUCTION IS PROHIBITED, AND WASTEWATER DISPOSAL OR IRRIGATION IS PROHIBITED.

26. THE CEF, A WETLAND STOCK POND, AND ITS 150' SETBACK ON LOT 3 WILL BE RELOCATED AT A 1:1 RATIO TO AN AREA ON LOT 3 OUTSIDE THE CWQZ DETERMINED BY THE OWNER TO NOT IMPEDE DEVELOPMENT. THE REPLACEMENT WETLAND LANDSCAPE WILL BE INSTALLED AS DIRECTED BY STANDARD SPECIFICATION MANUAL 609S ON DATE APPROVED.

27. IN ACCORDANCE WITH THE COA ENVIRONMENTAL REVIEW, THE RELOCATED WETLAND POND CAN BE COMBINED WITH A DETENTION OR WATER QUALITY POND TO FORM A WET POND.

28. THE LOCATION AND SIZE OF CRITICAL ENVIRONMENTAL FEATURES SHOWN ON THE PLAT ARE APPROXIMATE.

30. APPROVAL OF THIS SUBDIVISION PLAT BY THE COMMISSIONERS' COURT [illegible] APPROVAL, OR [illegible] OF A [illegible] OF THE SITE.

TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM NOTES

1. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECED TO A PUBLIC SEWER SYSTEM OR A PRIVATE ON-STE WASTEWATER DISPOSAL SYSTEM APPROVED BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM.

2. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A POTABLE WATER SUPPLY FROM AN APPROVED WATER SYSTEM.

3. NO ON-SITE WASTEWATER DISPOSAL SYSTEM MAY BE INSTALLED WITHIN 100 FEET OF A PRIVATE WATER WELL NOR MAY AN ON-SITE WASTEWATER DISPOSAL SYSTEM BE INSTALLED WITHIN 150 FEET OF A PUBLIC WATER WELL.

4. NO CONSTRUCTION MAY BEGIN ON A LOT IN THIS SUBDIVISION UNTIL PLANS FOR THE PRIVATE ON-SITE WASTEWATER DISPOSAL SYSTEM ARE SUBMITTED TO AND APPROVED BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM.

5. ALL DEVELOPMENT ON ALL LOTS IN THIS SUBDIVISION MUST BE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE CHAPTER 48 - TRAVIS COUNTY, RULES OF TRAVIS COUNTY, TEXAS FOR ON-SITE SEWAGE FACILITIES.

6. THESE RESTICTIONS ARE ENFORCEABLE BY THE TRAVIS COUNTY ON-SITE WASTEWATER PROGRAM AND/OR LOT OWNERS.

[signature] for
ROBERT WRIGHT, R.S.

8-7-2003
DATE

COMMISSIONERS' COURT RESOLUTION

IN APPROVING THIS PLAT, THE COMMISSIONERS COURT OF TRAVIS COUNTY, TEXAS, ASSUMES NO OBLIGATION TO BUILD THE STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT OR ANY BRIDGES OR CULVERTS IN CONNECTION THEREWITH. THE BULIDING OF ALL STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT, AND ALL BRIDGES AND CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED IN SUCH STREETS, ROADS OR OTHER PUBLIC THOROUGHFARES OR IN CONNECTION THEREWITH, IS THE RESPOSNIBILTY OF THE OWNER AND/OR DEVELOPER OF THE TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH PLANS AND SPECIFICATION PRESCRIBED BY THE COMISSIONERS COURT OF TRAVIS COUNTY, TEXAS.

THE OWNER(S) OF THE SUBDIVISION SHALL CONSTRUCT THE SUBDIVISION'S STREET AND DRAINAGE IMPROVEMNTS (THE "IMPROVEMENTS") TO COUNTY STANDARDS IN ORDER FOR THE COUNTY TO ACCEPT THE PUBLIC IMPROVEMENTS FOR MAINTENANCE OR TO RELEASE FISCAL SECURITY POSTED TO SECURE PRIVATE IMPROVMENTS. TO SECURE THIS OBLIGATION, THE OWNER(S) MUST POST FISCAL SECURITY WITH THE COUNTY IN THE AMOUNT OF THE ESTIMATED COST OF IMPROVEMNETS. THE OWNER(S)' OBLIGATION TO CONSTRUCT THE IMPROVEMENTSTO COUNTY STANDARDS AND TO POST THE FISCAL SECURITY TO SECURE SUCH CONSTRUCTION IS A CONTINUING OBLIGATION BINDING ON THE OWNERS AND THEIR SUCCESSORS AND ASSIGNS UNTIL THE PUBLIC IMPROVEMENTS HAVE BEEN ACCEPTED FOR MAINTENANCE BY THE COUNTY, OR THE PRIVATE IMPROVMENTS HAVE BEEN CONSTRUCTED AND ARE PERFORMING TO COUNTY STANDARDS.

THE AUTHORIZATION OF THIS PLAT BY THE COMMISSIONERS FOR FILING OR THE SUBSEQUENT ACCEPTANCE FOR MAINTENANCE BY TRAVIS COUNTY, TEXAS, OF ROADS AND STREETS IN THE SUBDIVISION DOES NOT OBLIGATE THE COUNTY TO INSTALL STREET NAME SIGNS OR ERECT TRAFFIC CONTROL SIGNS, SUCH AS SPEED LIMIT, STOP SIGNS, AND YIELD SIGNS, WHICH IS CONSIDERED TO BE PART OF THE DEVELOPER'S CONSTURCTION.

THIS SUBDIVISION PLAT WAS APPROVED AND RECORDED BEFORE THE CONSTRUCTION AND ACCEPTANCE OF STREETS AND OTHER SUBDIVISION IMPROVEMENTS. PURSUANT TO THE TERMS OF A SUBDIVISION CONSTRUCTION AGREEMENT BETWEEN THE SUBDIVIDER AND THE CITY OF AUSTIN, DATED Dec. 16, 2003, THE SUBDIVIDER IS RESPONSIBLE FOR THE CONSTRUCTION OF ALL STREETS AND FACILITIES NEEDED TO SERVE THE LOTS WITHIN THE SUBDIVISION. THIS RESPONSIBILTY MAY BE ASSIGNED IN ACCORDANCE WITH THE TERMS OF THAT AGREEMENT. FOR THE CONSTRUCTION AGREEMENT PERTAINING TO THIS SUBDIVISION, SEE THE SEPARATE INSTRUMENT RECORDED IN DOCUMENT NUMBER [illegible] IN THE OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

STATE OF TEXAS:
COUNTY OF TRAVIS:

I, Dana DeBeauvoir, Clerk of the County Court, of Travis County, Texas do hereby certify that on the 22nd day of November, 2004, A.D., the Commissioner's Court of Travis County, Texas passed an order authorizing the filing for record of this plat and that said order was duly entered in the minutes of said Court, ~~in Book ______ Pages ______~~.

Witness my hand and seal of office of the County Court of said County, the [illegible] day of [illegible], 20[illegible], A.D.

Dana DeBeauvoir, Clerk of Court
TRAVIS COUNTY, TEXAS

[signature]
Deputy

STATE OF TEXAS:
COUNTY OF TRAVIS:

I, Dana DeBeauvoir, Clerk of Travis County, Texas do hereby certify that the foregoing instrument of writing and its certificate of authentication was filed for record in my office on the 5th day of January, 2005, A.D. at 2:56 O'Clock P.M., duly recorded on the 5th day of January, 2005, A.D. at 2:56 O'Clock P.M., plat records of said County and State in Document Number 200500003 Official Public Records of Travis County.

Witness my hand and seal of office of the County Clerk, this 5th day of January, 2005, A.D.
Dana DeBeauvoir, County Clerk
TRAVIS COUNTY, TEXAS

[signature]
Deputy

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
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ENGINEER
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WASTE MANAGEMENT
SHEET 3 OF 4
CASE # C8J-02-0235.0A

PHOTOGRAPHIC MYLAR

1.5.05 2005000003 $111.00

WASTE MANAGEMENT

OWNERS:
DIANE HALE
ROBERT E. WILDER
JOHN W. WILDER
ELIZABETH WILDER
ALL ABOVE CARE OF:
ELIZABETH WILDER
1030 SAUSALITO
AUSTIN, TX 78759

WASTEMANAGEMENT
JAMES O. SMITH
9708 GILES LN
AUSTIN, TX 78754
512-563-4495
512-272-8960 (FAX)

STATE OF TEXAS
COUNTY OF TRAVIS

KNOW ALL MEN BY THESE PRESENTS:

THAT JOHN W. WILDER, ROBERT E. WILDER, AND DIANE HALE, EACH BEING OWNERS OF A 8.33% UNDIVIDED INTEREST AND ELIZABETH WILDER, OWNER OF A 75% UNDIVIDED INTERTEST IN THE 105.62 ACRE PROPERTY AS RECORDED IN DOC # 2002128106 OF THE OFFICIAL RECORDS OF TRAVIS COUNTY, TEXAS, AND THAT WASTE MANAGEMENT, ACTING HEREIN AND THROUGH JAMES O. SMITH, OWNERS OF 21.85 ACRES, AS RECORDED IN TRAVIS COUNTY REAL PROPERTY RECORDS VOL.11965, PG 1443 AND VOL. 11965, PG 1447,

DO HEREBY SUBDIVIDE SAID PROPERTY PURSUANT TO TITLE 25 OF THE AUSTIN CITY CODE, CHAPTERS 212 AND 232 OF THE TEXAS LOCAL GOVERNMENT CODE, AND IN ACCORDANCE WITH THE ATTACHED PLAT TO BE KNOWN AS "WASTE MANAGEMENT" SUBJECT TO ANY EASEMENTS OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED, AND DO HEREBY DEDICATE TO THE PUBLIC THE USE OF ALL EASEMENTS SHOWN HEREON, EXCEPT AS PREVIOUSLY GRANTED, AS REFLECTED HEREON.

WITNESS MY HAND, THIS THE 6 DAY OF Aug, 2003, A.D.

BY: John W. Wilder
JOHN W. WILDER
10511 SAN SOUCI PLACE
AUSTIN, TEXAS 78759

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME
BY JOHN W. WILDER ON THE 6TH DAY
OF August 2003, A.D.,

Marcos A Gomez
Notary Public, State of Texas
My Commission Expires
APRIL 01, 2005

NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: April 1 2005

I, KEVIN A. OLSON, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH SURVEY-RELATED PORTIONS OF CHAPTER 25 OF THE AUSTIN CITY CODE OF 1999 AS AMENDED; IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE; AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

MARTIN SURVEYING ASSOCIATES INC.

KEVIN A. OLSON, R.P.L.S. NO. 4524
8810 WILL CLAYTON PARKWAY SUITE F.
HUMBLE, TEXAS 77338

STATE OF TEXAS
REGISTERED
KEVIN A. OLSON
4524
PROFESSIONAL
LAND SURVEYOR

BY: R. E. Wilder
ROBERT E. WILDER
3606 VARA
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME
BY ROBERT E. WILDER ON THE 6TH DAY
OF August 2003, A.D.,

Marcos A Gomez
Notary Public, State of Texas
My Commission Expires
APRIL 01, 2005

NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: April 1 2005

APPROVED, ACCEPTED, AND AUTHORIZED FOR RECORD BY THE DIRECTOR OF THE WATERSHED PROTECTION & DEVELOPMENT REVIEW DEPARTMENT, CITY OF AUSTIN, COUNTY OF TRAVIS, THIS THE 7th DAY OF August, 2003, A.D.

DIRECTOR
WATERSHED PROTECTION AND DEVELOPMENT REVIEW

THIS PLAT FALLS WITHIN THE 2 MILE ETJ OF THE CITY OF AUSTIN ON THIS THE 7th DAY OF August, 2003.

~~ACCEPTED AND AUTHORIZED FOR RECORD BY THE PLANNING COMMISSION OF THE CITY OF AUSTIN, TEXAS, THIS THE _____ DAY OF _____, 2003.~~

~~CHAIRPERSON~~ ~~SECRETARY~~

BY: Diane W. Hale
DIANE W. HALE
10302 BARR LANE
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME
BY DIANE W. HALE ON THE 6TH DAY
OF August 2003, A.D.,

Carol L. Mashaka
NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: Nov. 15, 2003

I, MARK T. BURSON, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING, AND HEREBY CERTIFY THAT THIS PLAT IS FEASIBLE FROM AN ENGINEERING STANDPOINT, COMPLIES WITH THE ENGINEERING RELATED PORTIONS OF CHAPTER 25 OF THE AUSTIN CITY CODE OF 1999 AS AMENDED, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

THE 100-YEAR FLOOD PLAIN IS CONTAINED WITHIN THE DRAINAGE EASEMENT AS SHOWN HEREON. A PORTION OF THIS TRACT IS WITHIN THE DESIGNATED FLOOD HAZARD AREA AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) #48453C0120E TRAVIS COUNTY, TEXAS DATED 6/16/1993. THE 100 YEAR FLOODPLAIN WAS DETERMINED BY TCB FLOOD PLAIN STUDY. MINIMUM FINISHED FLOOR ELEVATION FOR ALL AFFECTED STRUCTRES SHALL BE ONE (1) FOOT ABOVE THE ELEVATION OF THE 100-YEAR FLOOD PLAIN AS SHOWN HEREON: LOT 1: 568.81 M.S.L. AND LOT 2: 565.80 M.S.L. AND LOT 3: 568.0 M.S.L.

Mark T. Burson
MARK T. BURSON, P.E. NO.
TURNER COLLIE & BRADEN INC.
400 WEST 15TH STREET SUITE 500
AUSTIN, TEXAS 78701

DATE 4/18/05

STATE OF TEXAS
MARK T. BURSON
55334
REGISTERED
PROFESSIONAL ENGINEER

BY: Steve Smith
JAMES O. SMITH Steve Smith
9708 GILES LANE
AUSTIN, TEXAS 78754

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME
BY JAMES O. SMITH ON THE 6 DAY
OF Aug 2003, A.D.,

Carol L. Mashaka
NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: Nov. 15, 2003

BY: Elizabeth Wilder
ELIZABETH WILDER
1030 SAUSALITO
AUSTIN, TEXAS 78759

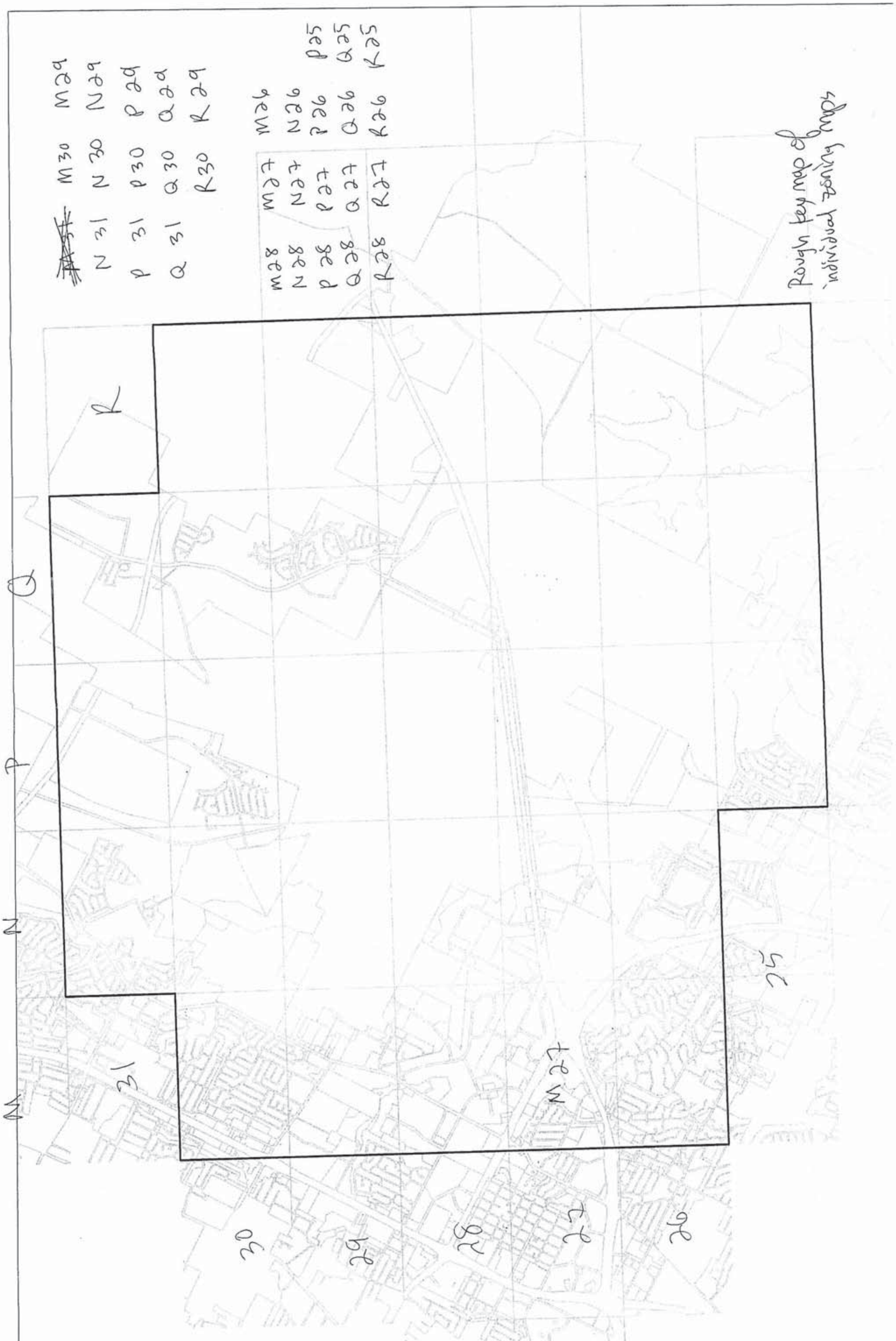
THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME
BY ELIZABETH WILDER ON THE 6 DAY
OF Aug 2003, A.D.,

Helen Long Hubbard
NOTARY PUBLIC, IN AND FOR TRAVIS COUNTY
MY COMMISSION EXPIRES: 6/24/2007

SURVEYOR
MARTIN SURVEY ASSOCIATES INC
8810 WILL CLAYTON PARKWAY SUITE F
HUMBLE, TX 77338
(281) 446-8899 FAX (281) 446-8600

ENGINEER
Turner Collie & Braden Inc.
400 WEST 15TH STREET, SUITE 500
AUSTIN, TEXAS 78701
(512) 472-4519 FAX (512) 472-7519

WASTE MANAGEMENT
SHEET 4 OF 4
CASE # C8J-02-0235.0A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Q28 Q27 Q26 Q25
R28 R27 R26 R25
Rough key map of individual zoning maps
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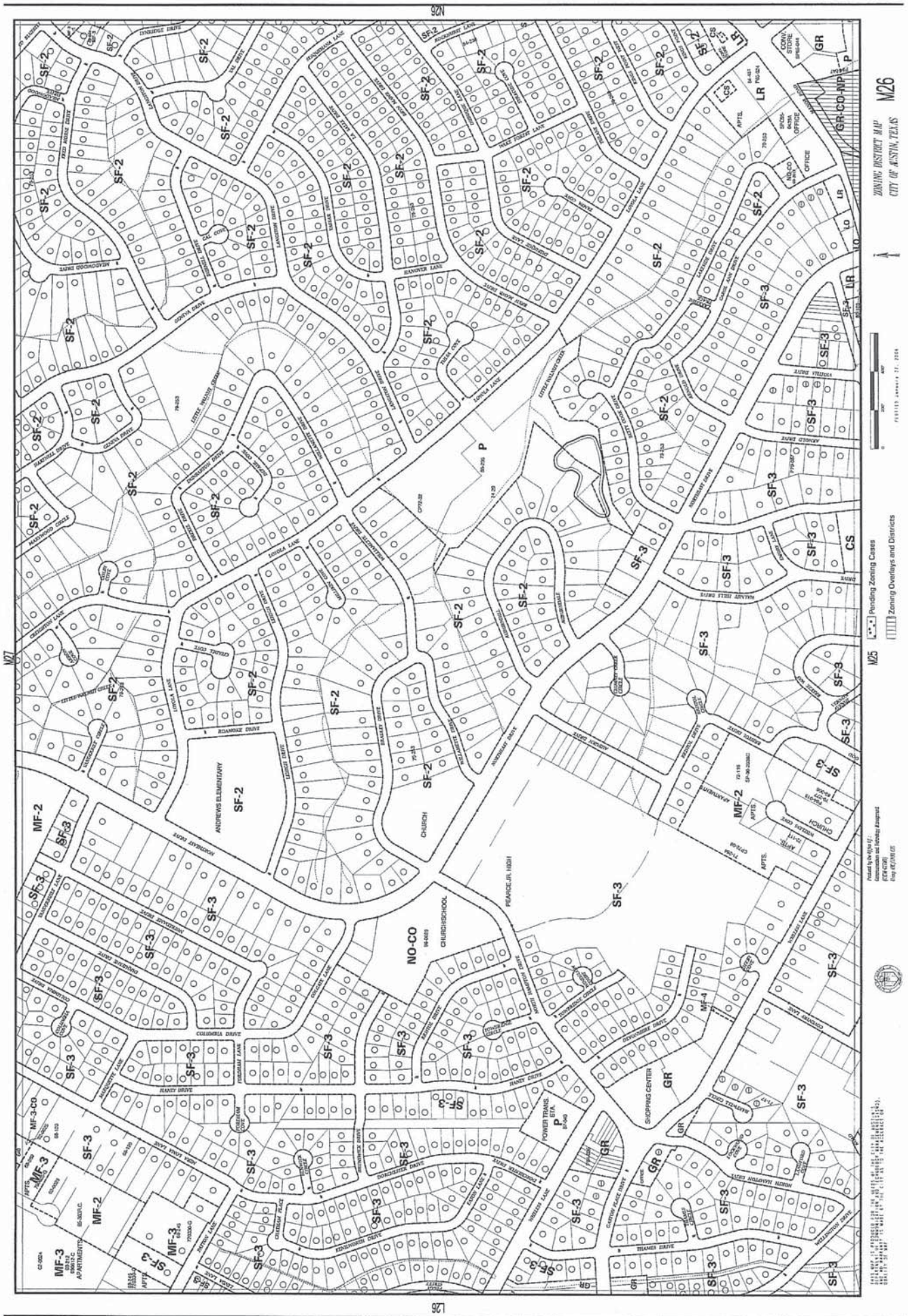
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CITY OF AUSTIN, TEXAS
Pending Zoning Cases
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NO-CO
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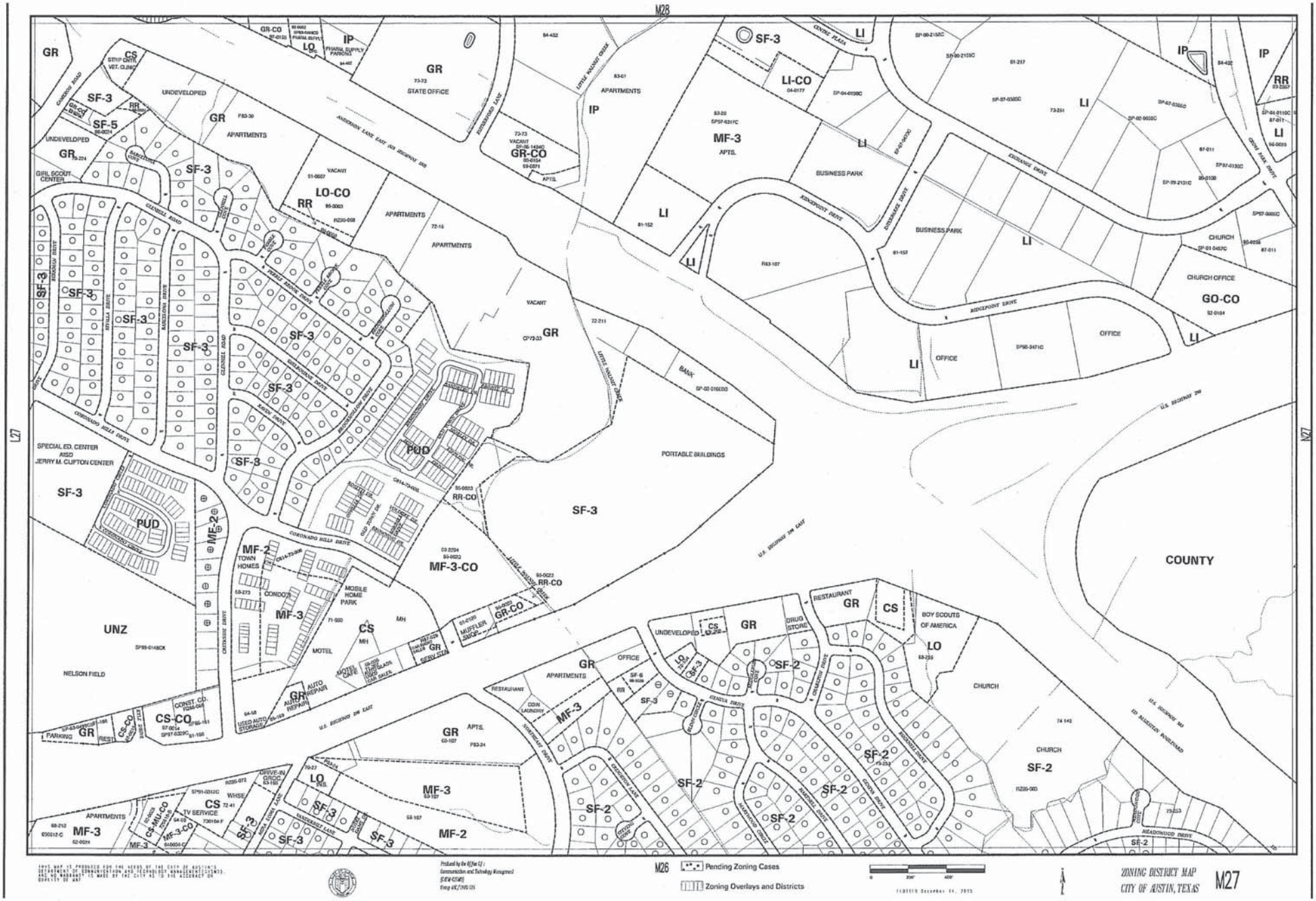
FEARCE JR. HIGH
SHOPPING CENTER
POWER TRANS. STA.
APTS.
OFFICE
CONV. STORE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ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
M27


M29
L28
N28
M27
IP-CO
SF-3
LI
GR-CO
OFFICE MANUFACTURING
IP
RR
CS
GR-CO
SF-3
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MF-3
83-050
UNDEVELOPED
OFFICE/WAREHOUSE
OFFICE/MANUFACTURING
BUSINESS PARK
OFFICES
OFFICE BLDG.
PARKING
INDUSTRIAL PARK
OFFICE/LIGHT MFG.
OFFICE/WAREHOUSES
OFFICE/INDUSTRIAL PARK
FINANCIAL SERVICES
WAREHOUSES
STRIP/WAREHOUSES/OFFICES
ANNEX 911219-A
LI-CO
GR
LO
P
BREWING CO.
Pending Zoning Cases
Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
M28


ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
M29
Pending Zoning Cases
Zoning Overlays and Districts
N29
L29
M28
COUNTY
I-RR
LI-CO
CS-1-CO
CS-CO
SF-3
GR
LR
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CS
LI
RR
IP
IP-CO
P
MF-3
MF-3-CO
MF-1-CO
RR-CO
TND
DOBIE JR. HIGH SCHOOL
MOBILE HOME PARK
CEMETERY
APARTMENTS
TOWNHOMES
CONDOS
CHURCH
WAREHOUSES
CONCRETE COMPANY
PAVING CO.
PLUMBING CO.
PRIVATE SCHOOL
LUMBER SUPPLY
DAYCARE
MACHINE SHOP
INDUSTRIAL CENTER
INDUSTRIAL FABRICATION
BUSINESS PARK
PLUMBING SUPPLY
FENCE SUPPLY
AUTO SUPPLY
TACO STAND
CONV. STORE
GAS STATION
OFFICE WAREHOUSE
ADESA AUCTION
LITTLE WALNUT CREEK
LITTLE WALNUT CREEK TRIBUTARY
PLEASANT LANE
FERGUSON LANE
EAST RUNDBERG LANE
NORTH PLAZA
FAIRFIELD DRIVE


M31
M29
L30
N30
SF-2
SF-3
MF-2
MF-3
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W/LO-CO
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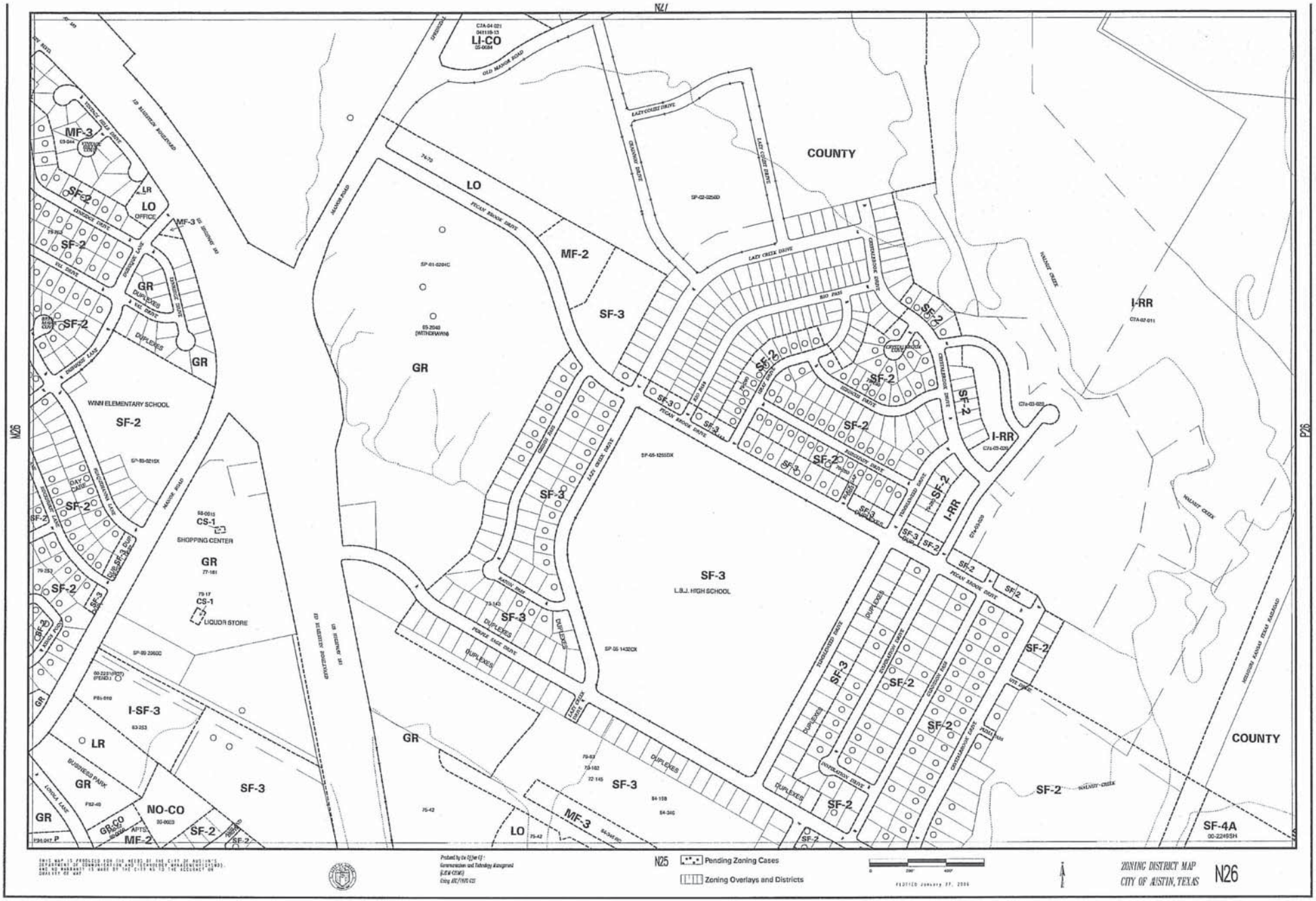
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SHOPPING CENTER
CS-1
LIQUOR STORE
L.B.J. HIGH SCHOOL
I-RR
I-SF-3
NO-CO
GR-CO
SF-4A
00-2249SH
MANOR ROAD
ED BLUESTEIN BOULEVARD
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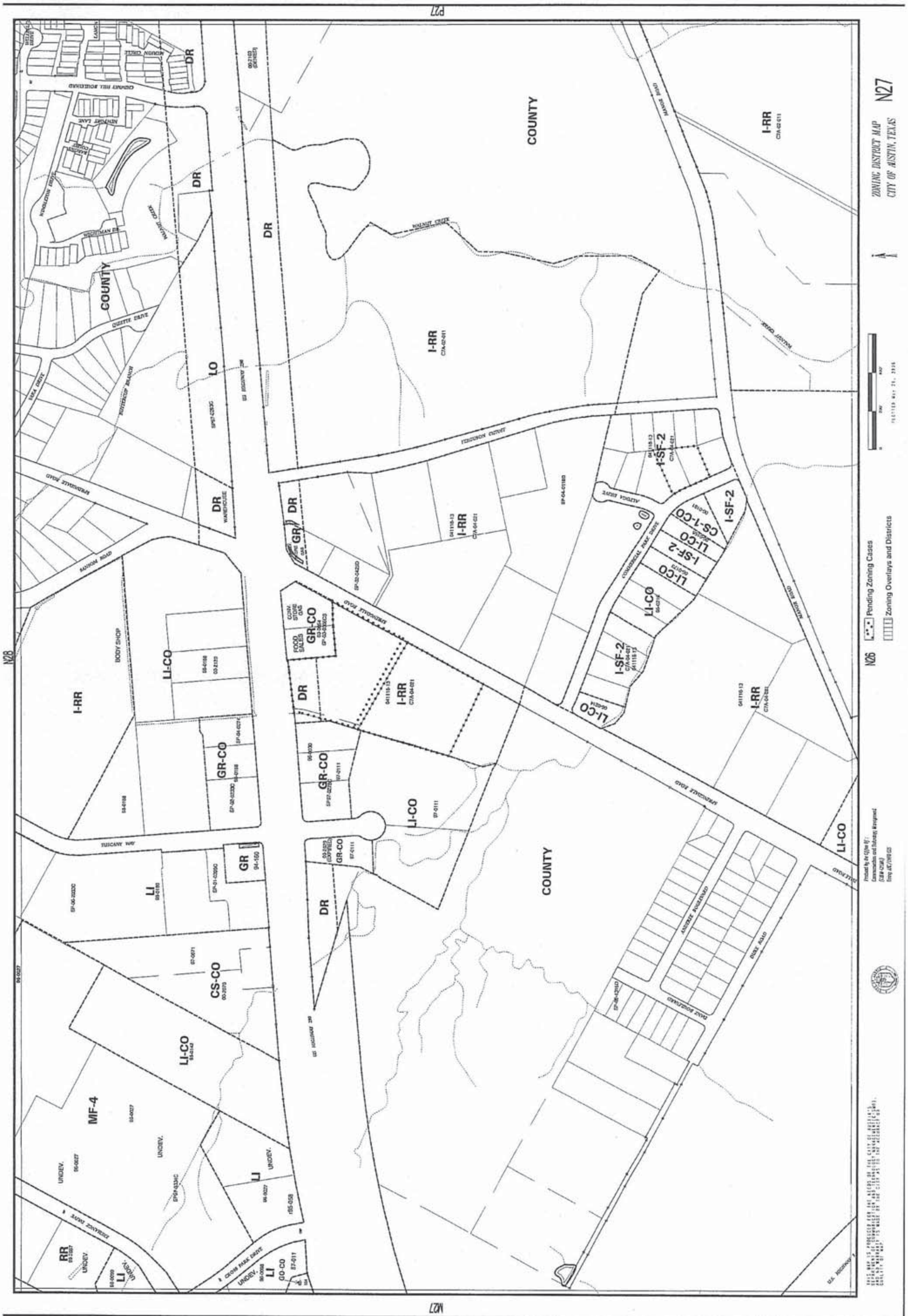
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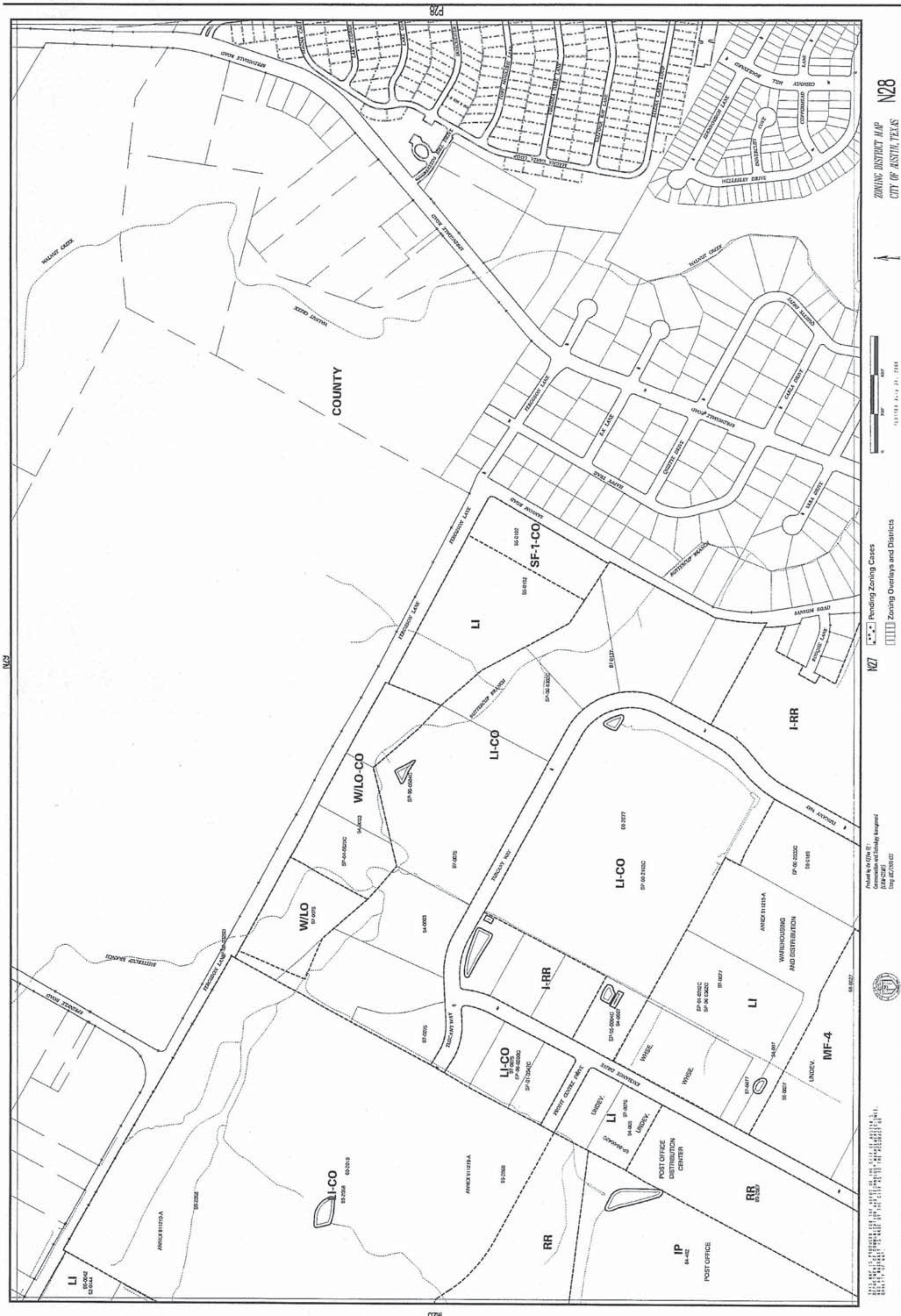
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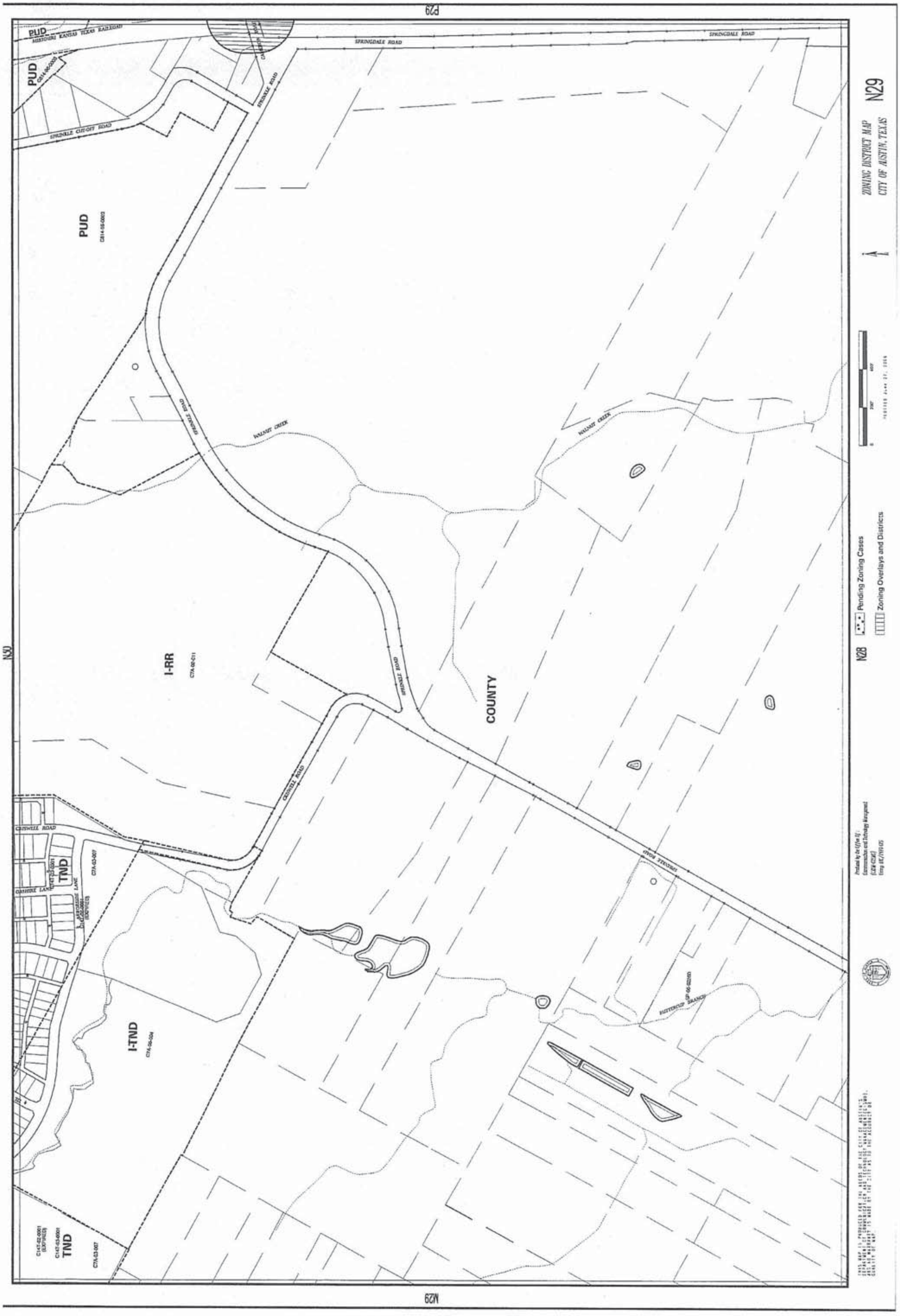
POST OFFICE
WAREHOUSING AND DISTRIBUTION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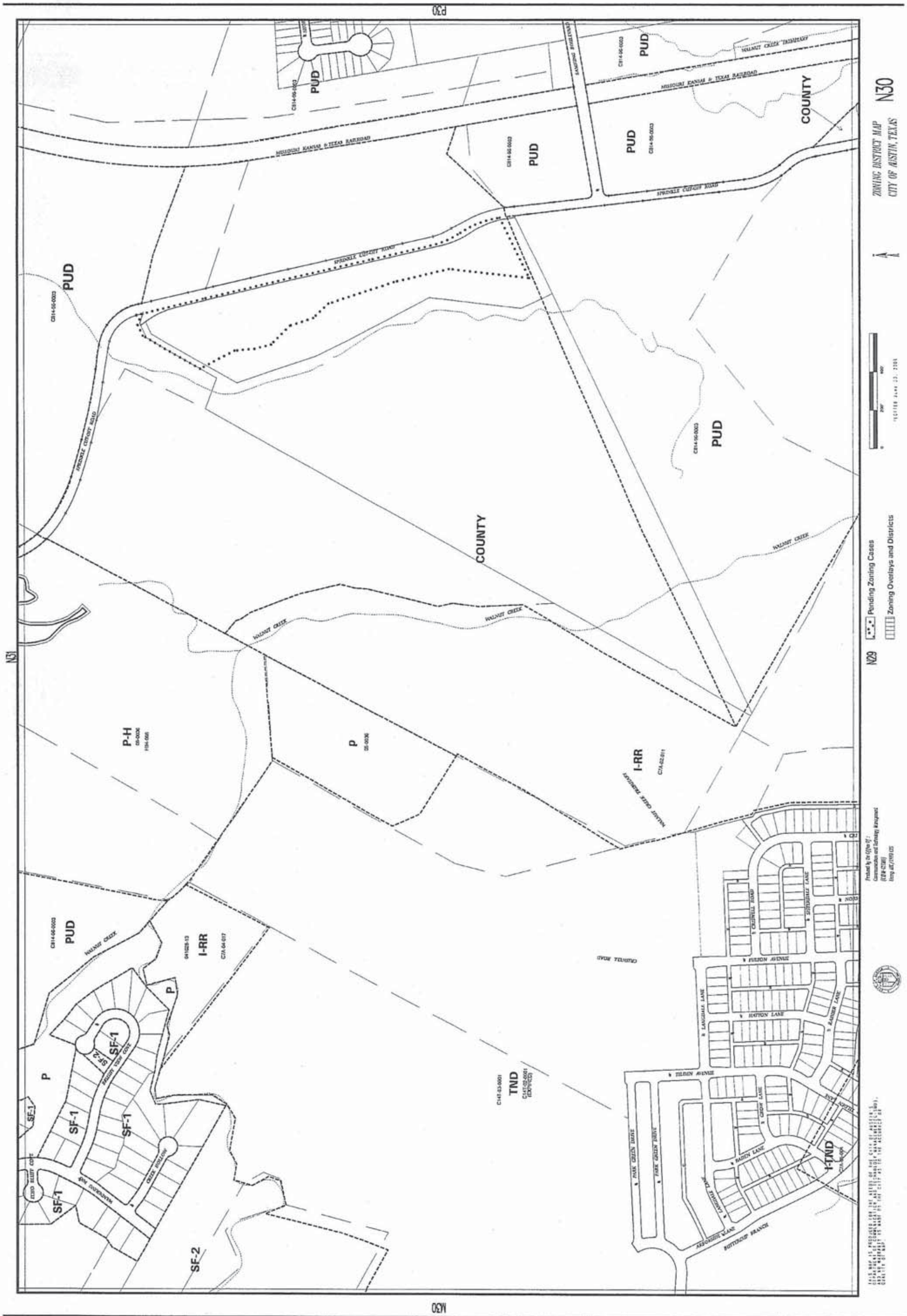
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SF-1
SF-2
WALNUT CREEK
MISSOURI KANSAS & TEXAS RAILROAD
SPRINKLE CUTOFF ROAD
Pending Zoning Cases
Zoning Overlays and Districts


N32
N31
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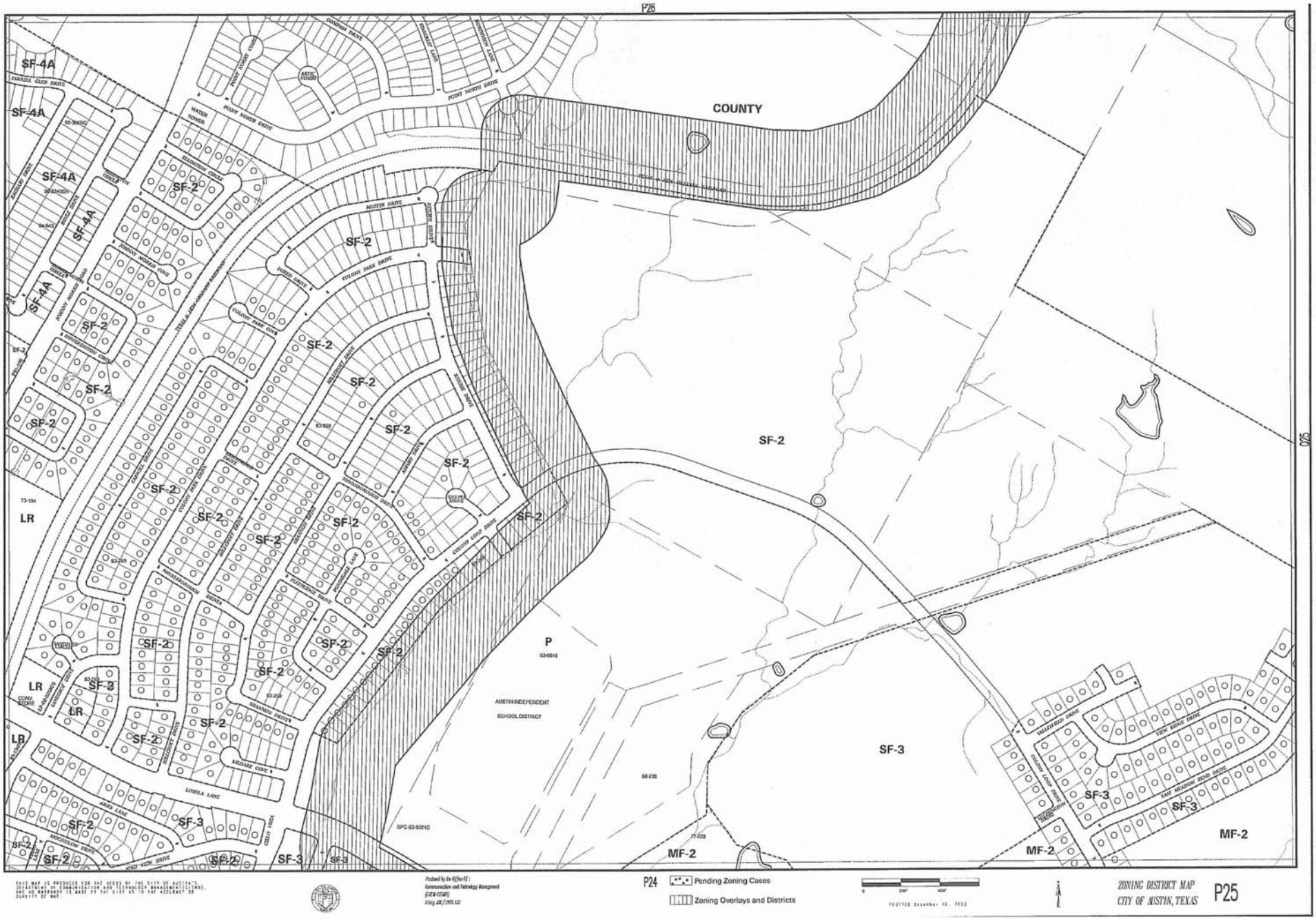
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Zoning Overlays and Districts
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CITY OF AUSTIN, TEXAS
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P27
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CITY OF AUSTIN, TEXAS
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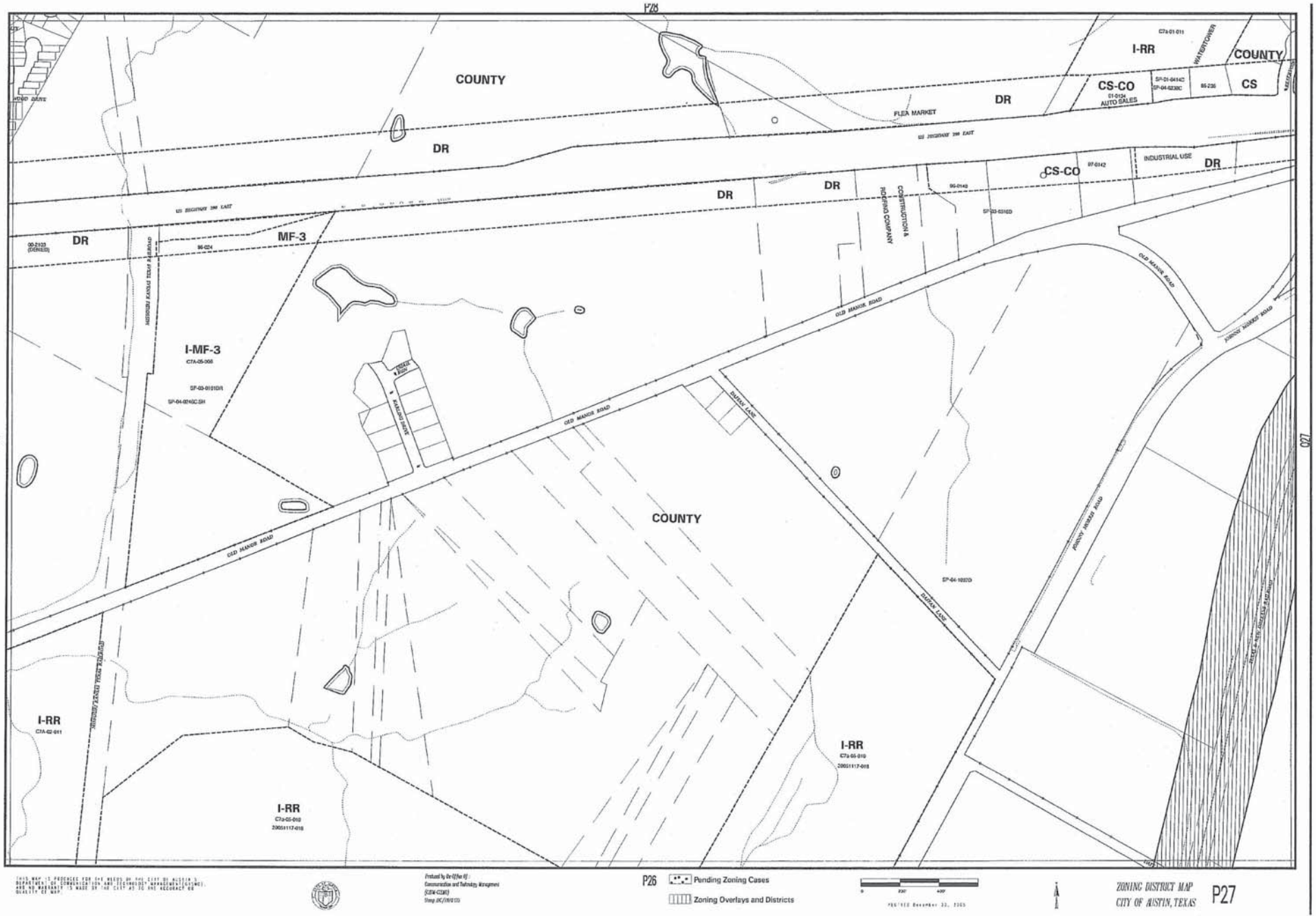
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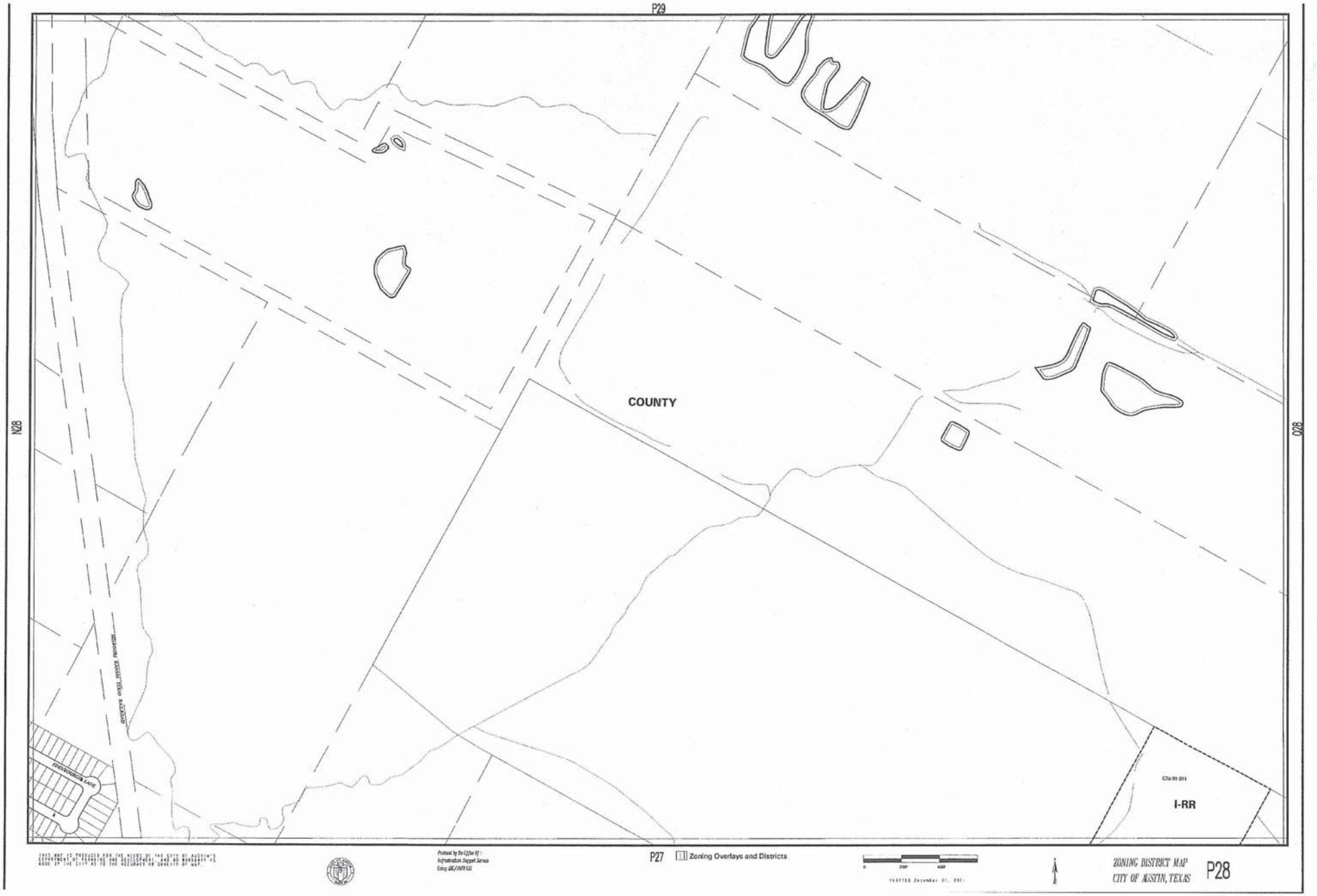
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CITY OF AUSTIN, TEXAS
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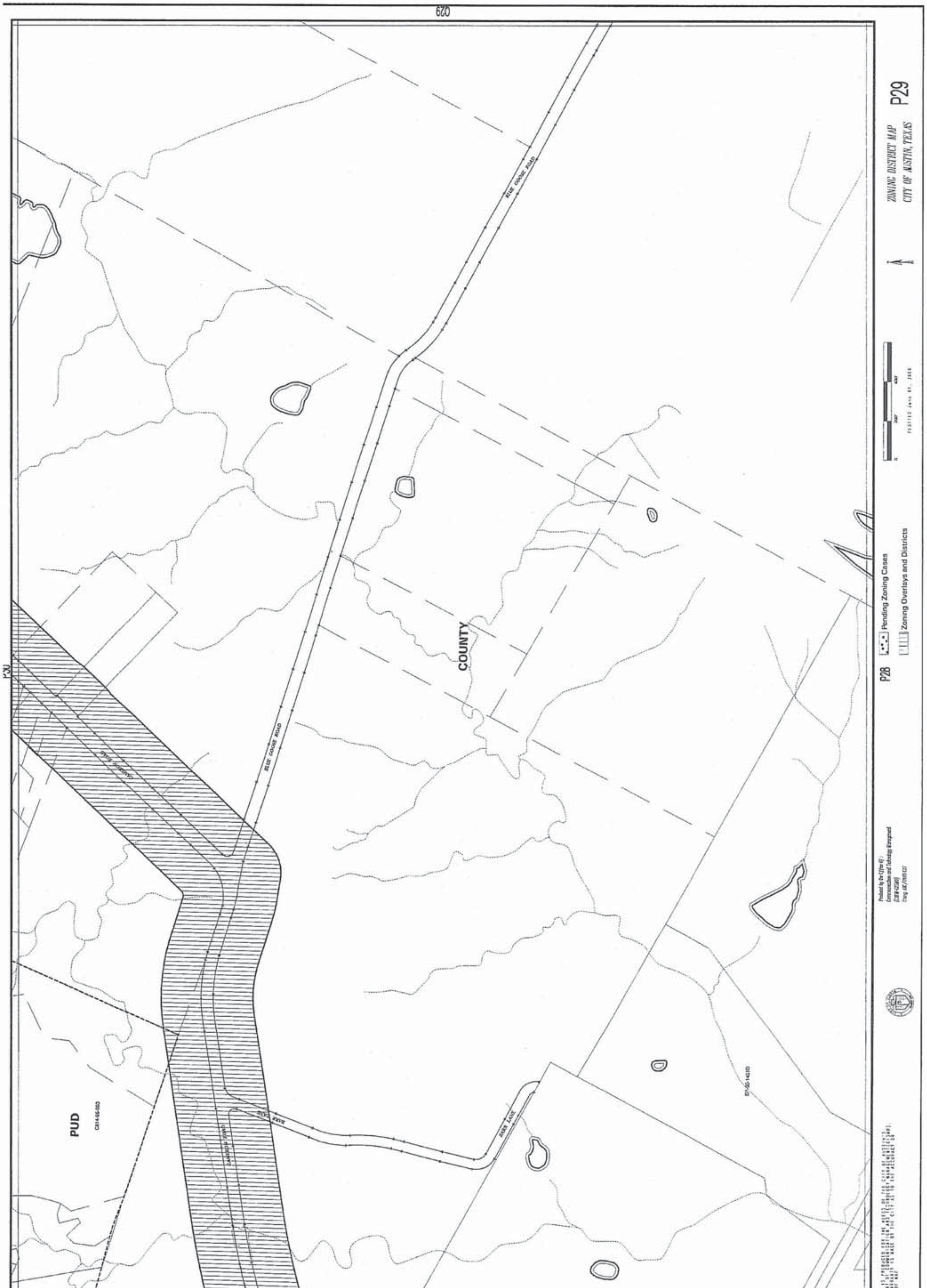

ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
P29
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BLUE GOOSE ROAD
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P30


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Zoning Overlays and Districts
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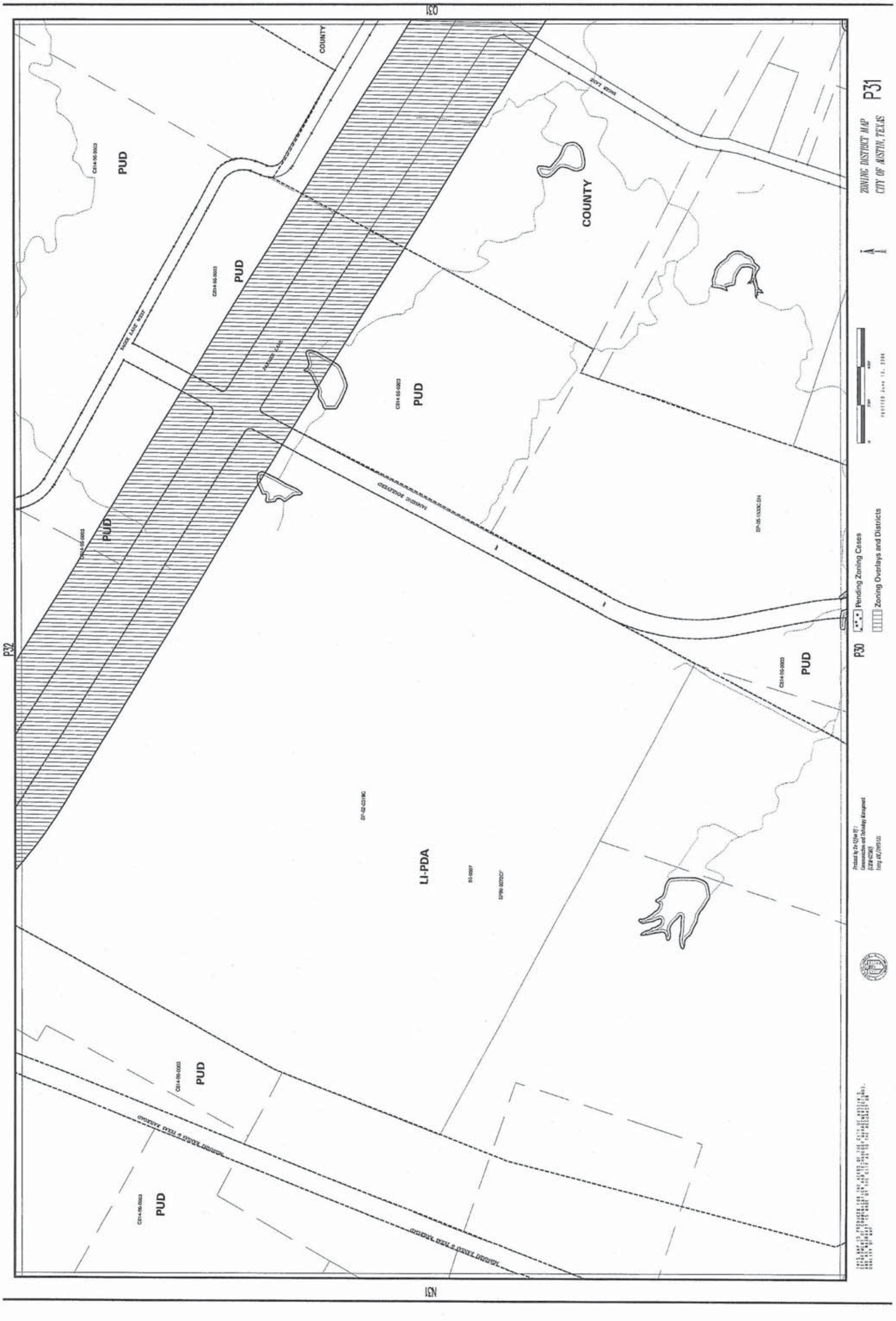
CITY OF AUSTIN, TEXAS
P30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CITY OF AUSTIN, TEXAS
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Pending Zoning Cases
Zoning Overlays and Districts


Q25
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Q24
Pending Zoning Cases
Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
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R26
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Q26
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
Q25
Pending Zoning Cases
Zoning Overlays and Districts
WALTER E. LONG LAKE
DECKER LANE
COUNTY


ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
Q27
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R27
Q26
Pending Zoning Cases
Zoning Overlays and Districts
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LI-CO
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CONV. STORE
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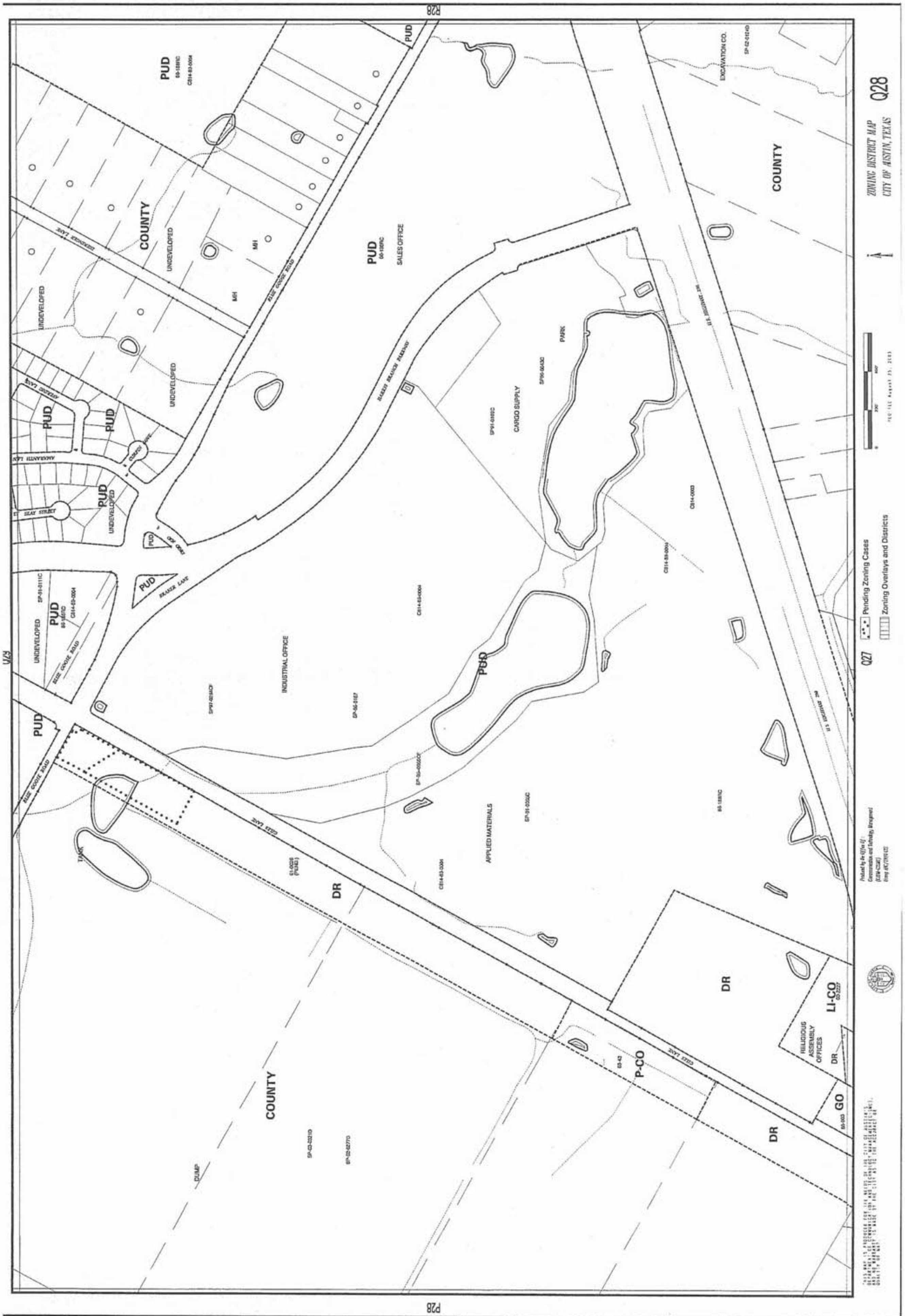
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Q28
Q27
R28
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PUD
COUNTY
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SALES OFFICE
INDUSTRIAL OFFICE
CARGO SUPPLY
PARK
APPLIED MATERIALS
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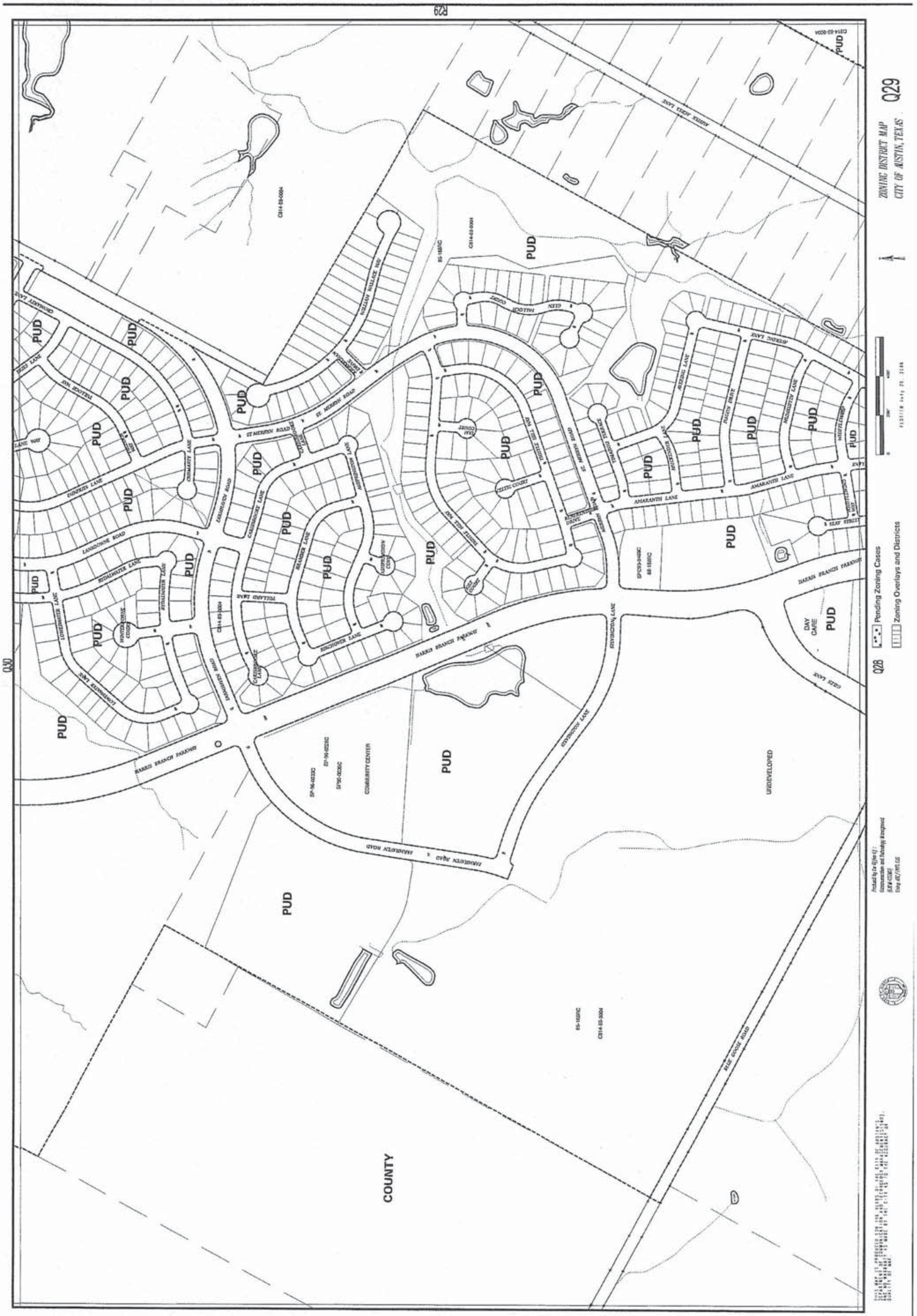
RELIGIOUS ASSEMBLY OFFICES
EXCAVATION CO.
DUMP
TANK
Pending Zoning Cases
Zoning Overlays and Districts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Q28
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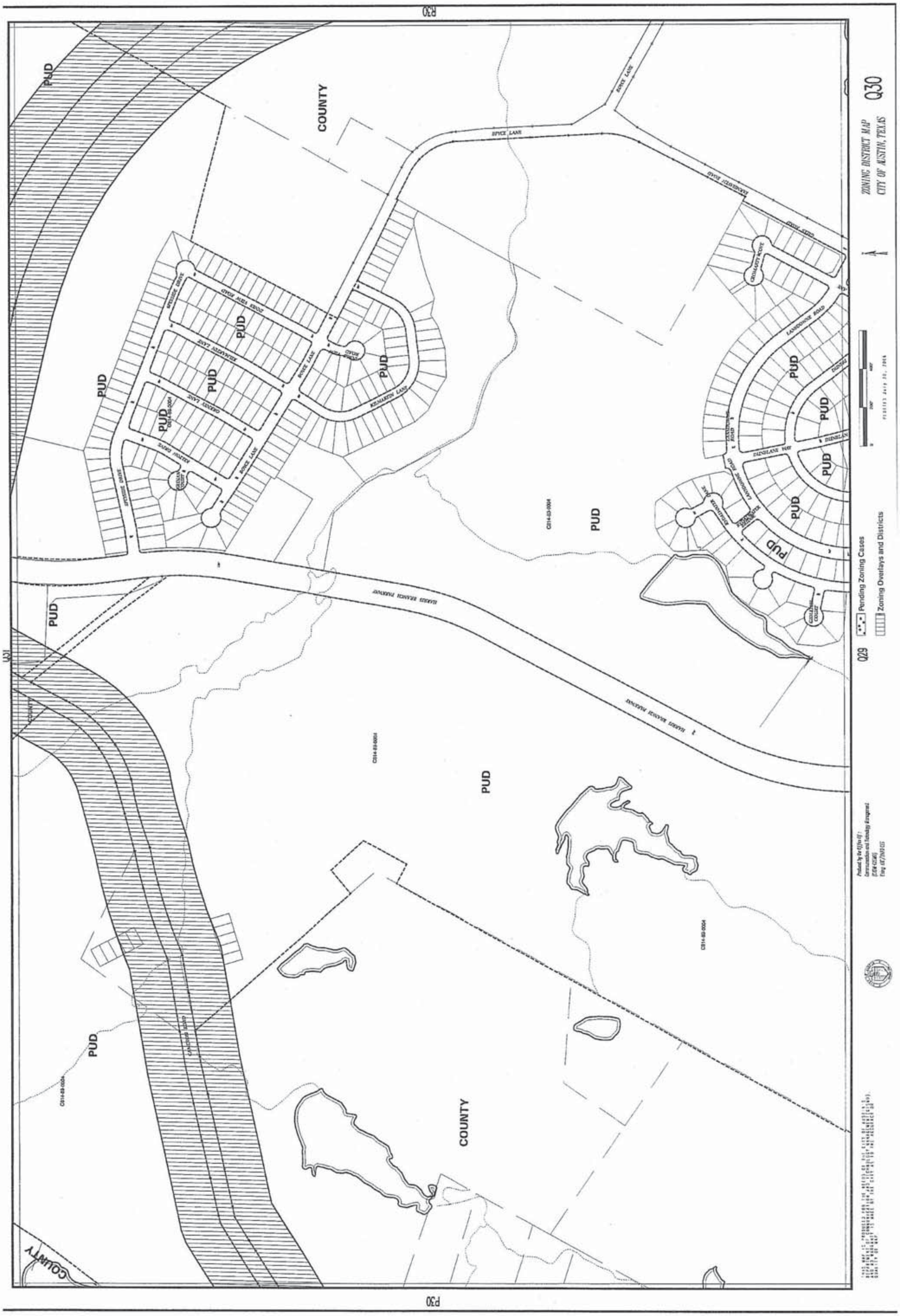
Zoning Overlays and Districts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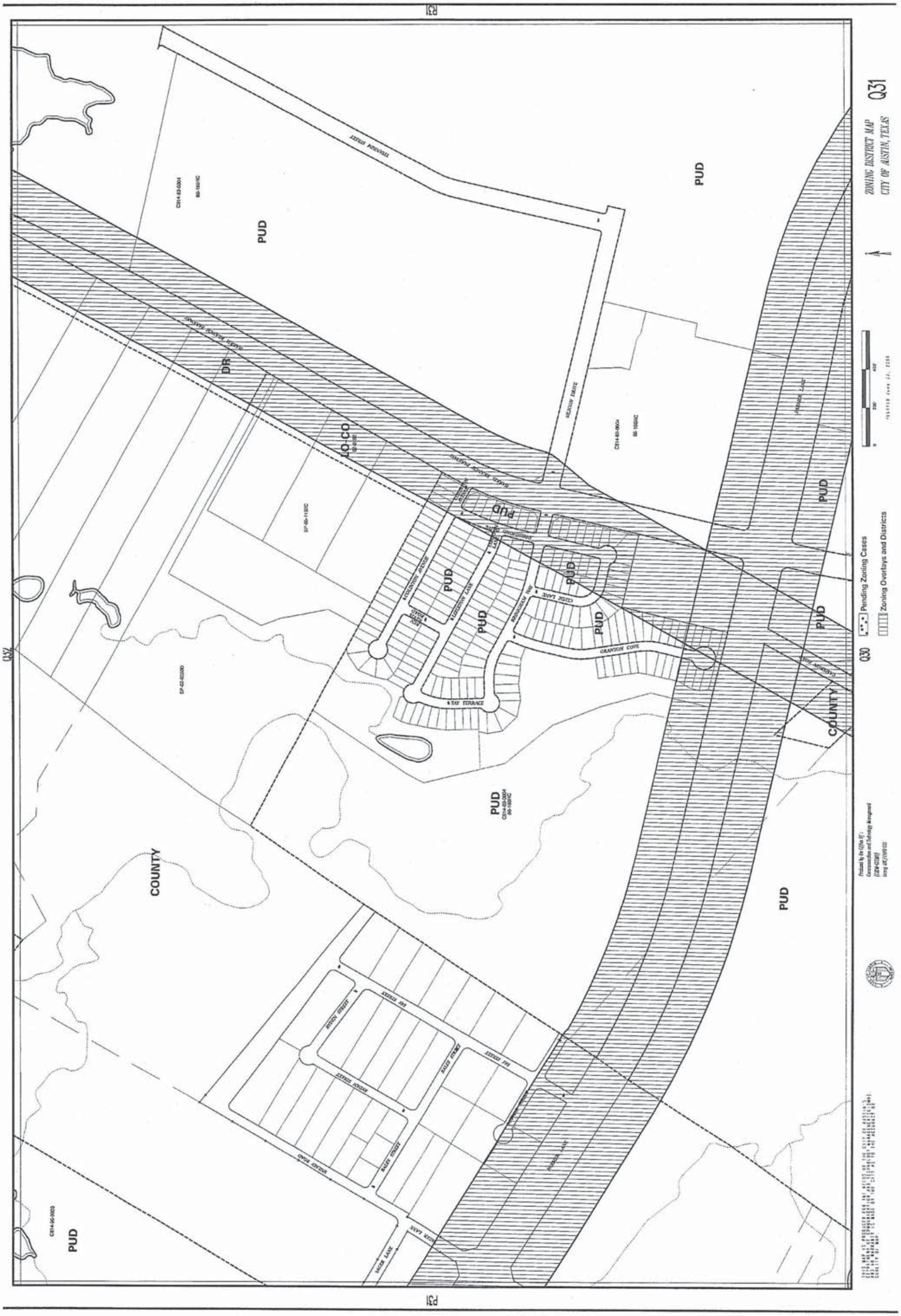
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Pending Zoning Cases
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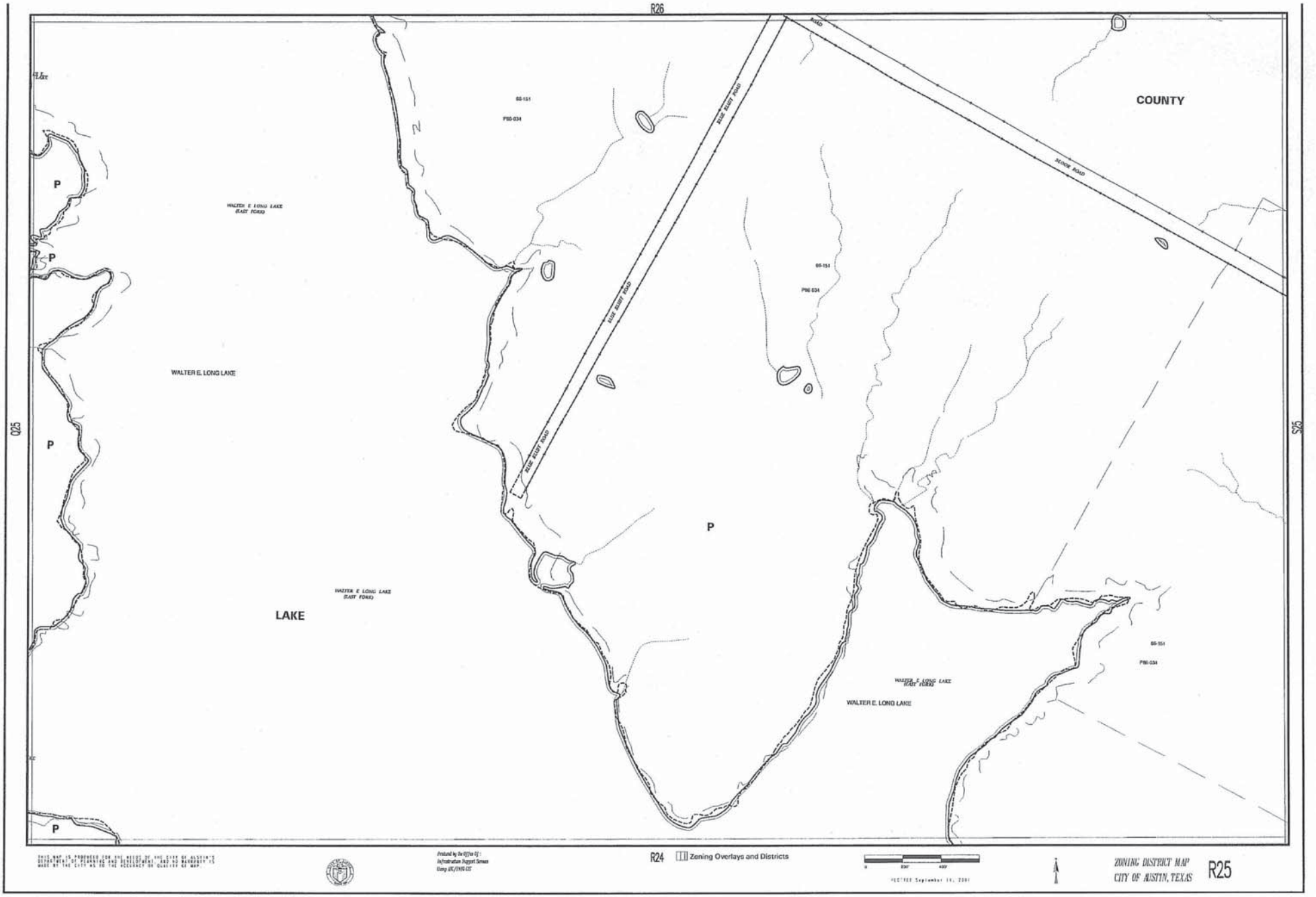
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SCHOOL ROAD
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Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
R25


R27
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WALTER E. LONG LAKE
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WALTER E. LONG LAKE
BLUE BLUFF ROAD
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CITY OF AUSTIN, TEXAS
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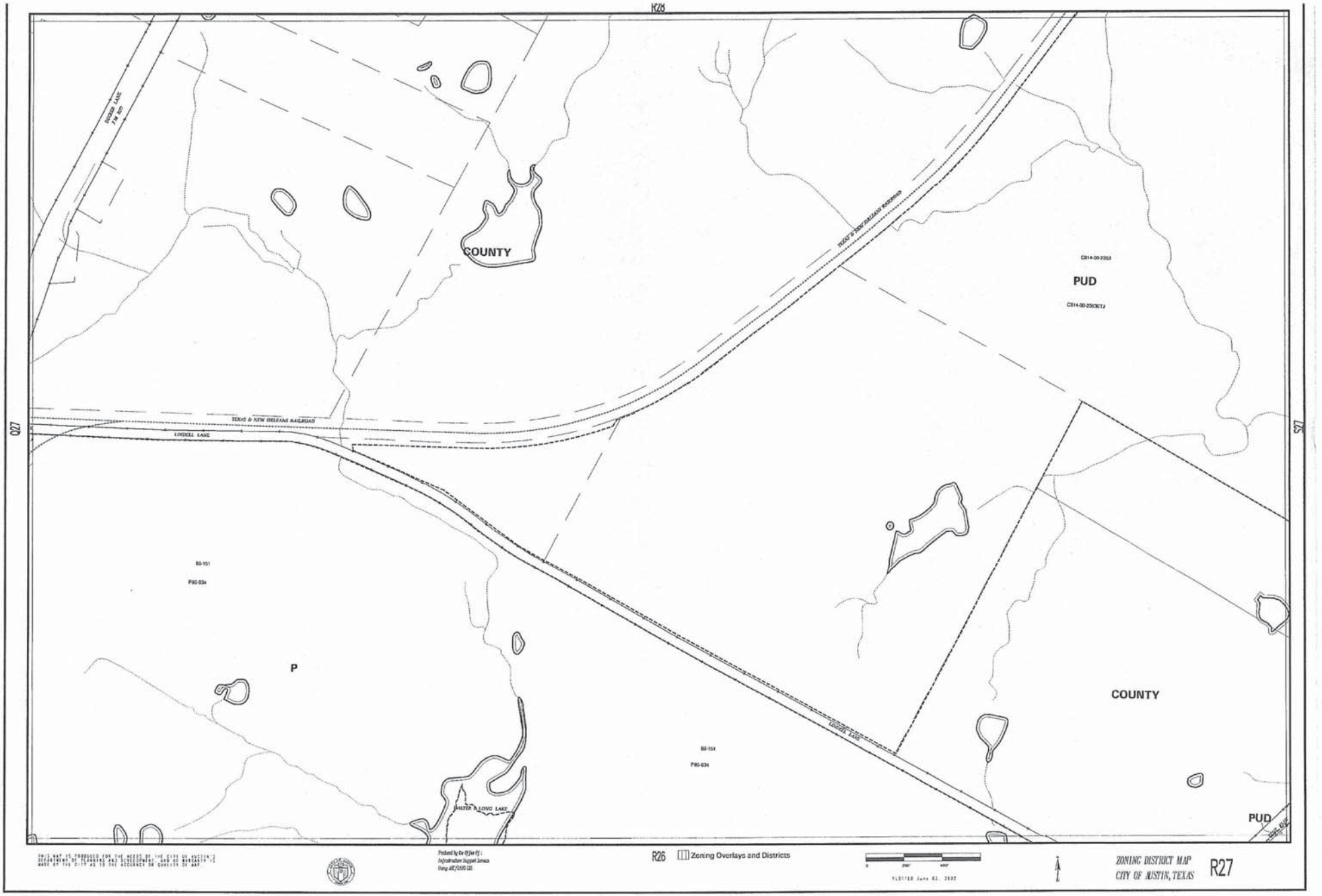
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COUNTY
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TEXAS & NEW ORLEANS RAILROAD
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P
COUNTY
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R26
Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
R27


R29
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GR-MU-CO
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Pending Zoning Cases
Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
R28


R30
R29
R28
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CH-CO
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Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
R29


R31
Q30
S30
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COUNTY
GILLELAND CREEK
GILLELAND CREEK
BOYCE LANE
R29
Zoning Overlays and Districts
ZONING DISTRICT MAP
CITY OF AUSTIN, TEXAS
R30

APPENDIX I/IIH

TRANSPORTATION (ROADS AND TRAFFIC)

Geosyntec consultants

8217 Shoal Creek Blvd, Suite 200
Austin, Texas 78757
PH 512.451.4003
www.Geosyntec.com

Hand-delivered via Courier

25 September 2019

Mr. Tucker Ferguson, P.E.
District Engineer
Texas Department of Transportation (TxDOT)
7901 N. I-35
Austin, TX 78753

Subject: **Coordination Letter and Request for TxDOT Review**
Proposed Transfer Station
Type V MSW Facility
Austin Community Transfer Station
Austin, Travis County, Texas

Dear Mr. Ferguson:

Geosyntec Consultants (Geosyntec) has prepared this letter on behalf of our client, Waste Management of Texas, Inc. (WMTX), who will be the owner and operator of the above-referenced proposed transfer station (i.e., a Type V municipal solid waste (MSW) facility as defined by the Texas Commission on Environmental Quality (TCEQ).

The purpose of this letter is to:

1. Inform the Texas Department of Transportation (TxDOT) that WMTX planning to file a registration application for a proposed transfer station facility in Travis County, Texas (Physical Address: 9900 Giles Road, Austin, TX 78754).
2. Document coordination with your Agency for traffic and location restrictions (consistent with the requirements of Texas Commission on Environmental Quality (TCEQ) municipal solid waste (MSW) Rule 30 TAC §330.61(i)(4)).
3. Request review of the information presented in this letter, and a written response from TxDOT regarding the adequacy of the site access roads and any traffic or location restrictions at or near the site.

BACKGROUND

Please note that this proposed facility will be situated within the permitted boundary of an existing landfill, the Austin Community Recycling & Disposal Facility (RDF), Type I MSW Landfill, TCEQ Permit No. 249D. The site is on the east side of Travis County, just north of the intersection of US290 and Giles Road. The address of the facility is 9900 Giles Road, Austin, TX, 78754. A location map and a transfer station Site Plan are attached to this letter.

The proposed transfer station will not commence operations until the existing on-site landfill ceases to accept waste (and therefore the landfill will no longer be generating traffic (other than *de minimus* levels).

As part of previous landfill permitting efforts in the 2008-timeframe, TxDOT coordination took place. A comprehensive Transportation Study evaluating roads and traffic was performed for the Austin

Community RDF for Permit MSW-249D – covering a study period through the year 2027. This process included agency coordination with TxDOT, who provided an "acceptable" finding dated September 29, 2004; and affirmation on January 13, 2005 that TxDOT has "no objections" to the Transportation Study findings that the main roads that will be used to access the site are available and adequate. Copies of the landfill Permit MSW-249D Transportation Study and the TxDOT coordination letters and response are provided as attachments to this letter.

EVALUATION OF TRAFFIC IMPACTS FOR THIS PROPOSED FACILITY (THE TRANSFER STATION)

When the Austin Community RDF Landfill ceases to accept waste and the transfer station commences operation, waste collection vehicles traveling on Giles Road will use the existing main site entrance driveway on the west side of Giles Road and will proceed through the facility's gate and to the existing scales. Incoming loads will be weighed and directed to the covered transfer station building, where solid waste will be transferred to larger transfer trailer vehicles. The empty collection vehicles will exit through the main site driveway, and the transfer trailers will exit through an existing exit driveway, followed by transport of the waste to an approved off-site landfill for disposal. See the attached Site Plan for a graphical representation of this information.

For the reasons described below, this proposed facility (i.e., the transfer station) will result in diminished (i.e., lower traffic volume) traffic conditions for the transfer station as compared to the landfill. Therefore, it is apparent that the transfer station will have <u>less traffic impact</u> on surrounding roadways, and accordingly it is concluded that the <u>roads the operator will use to access the site are available and adequate</u>. This conclusion is based on the following rationale:

- The comprehensive Transportation Study (attached) for the landfill had a study period through the year 2027.
- The comprehensive Transportation Study for the landfill considered the improvements to the US 290 Freeway and the Giles Road intersection. These improvements, now constructed, have improved safety and traffic flow for this intersection.
- The comprehensive Transportation Study was based on the landfill generating 667 vehicles per day (i.e., 1,334 trips per day).
- The transfer station will restrict its allowable tonnage to not exceed a maximum allowable value; using the waste hauling truck capacities, the transfer station is projected to generate no more than 573 vehicles per day (i.e., 1,145 trips).
- The distribution of transfer station traffic throughout the day is anticipated to be similar to that of the landfill. The waste vehicle types will also be similar.
- Because the transfer station will generate less volume of traffic than the landfill that was used as the basis for the comprehensive Transportation Study (which TxDOT affirmed as being

acceptable), it can be reasonably concluded that the proposed transfer station will have less overall traffic impact, and that the roads used to access the site are available and adequate.

CLOSING

Geosyntec would appreciate your timely review of the information submitted with this letter, and are respectfully requesting a written response within 30 days of this letter, indicating the results of your review and whether you concur and have no objections to this transfer station project to replace the landfill at this site. This will allow us to proceed with the registration process. If you have any questions, comments, or require additional information, please do not hesitate to contact me at (512) 451-4003, or by email at sgraves@geosyntec.com.

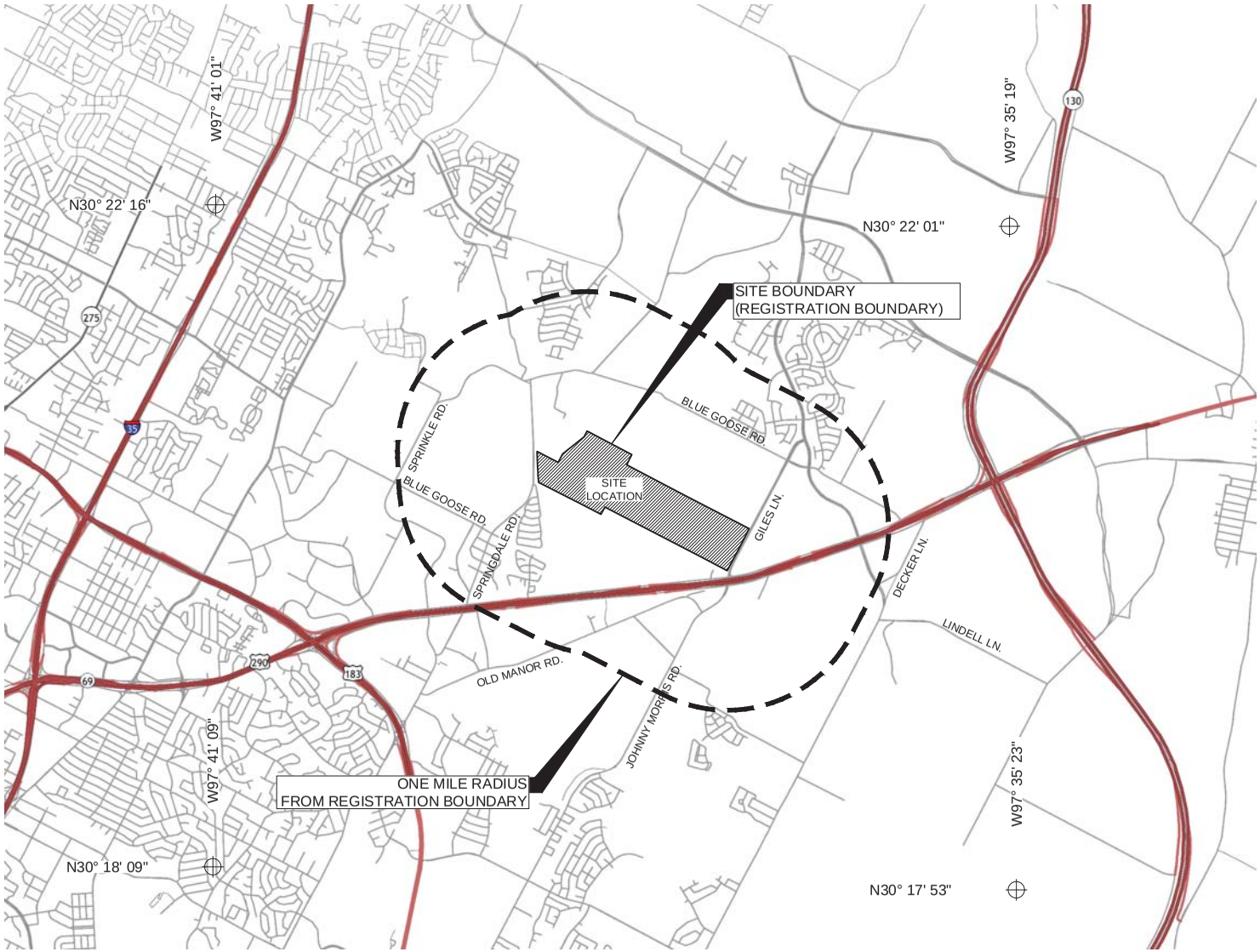
Sincerely,

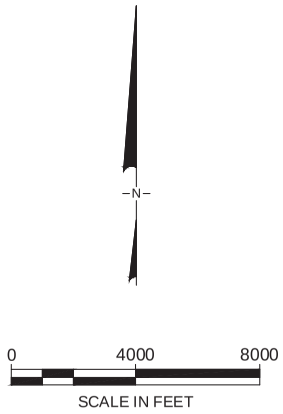
Scott M. Graves, P.E.
Principal

Attachments

Copy to: Chuck Rivette, WMTX

FIGURES





NOTES:

1. BASE MAP SOURCE: TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) DIGITAL COUNTY/URBAN MAP FILES FOR TRAVIS COUNTY TEXAS.

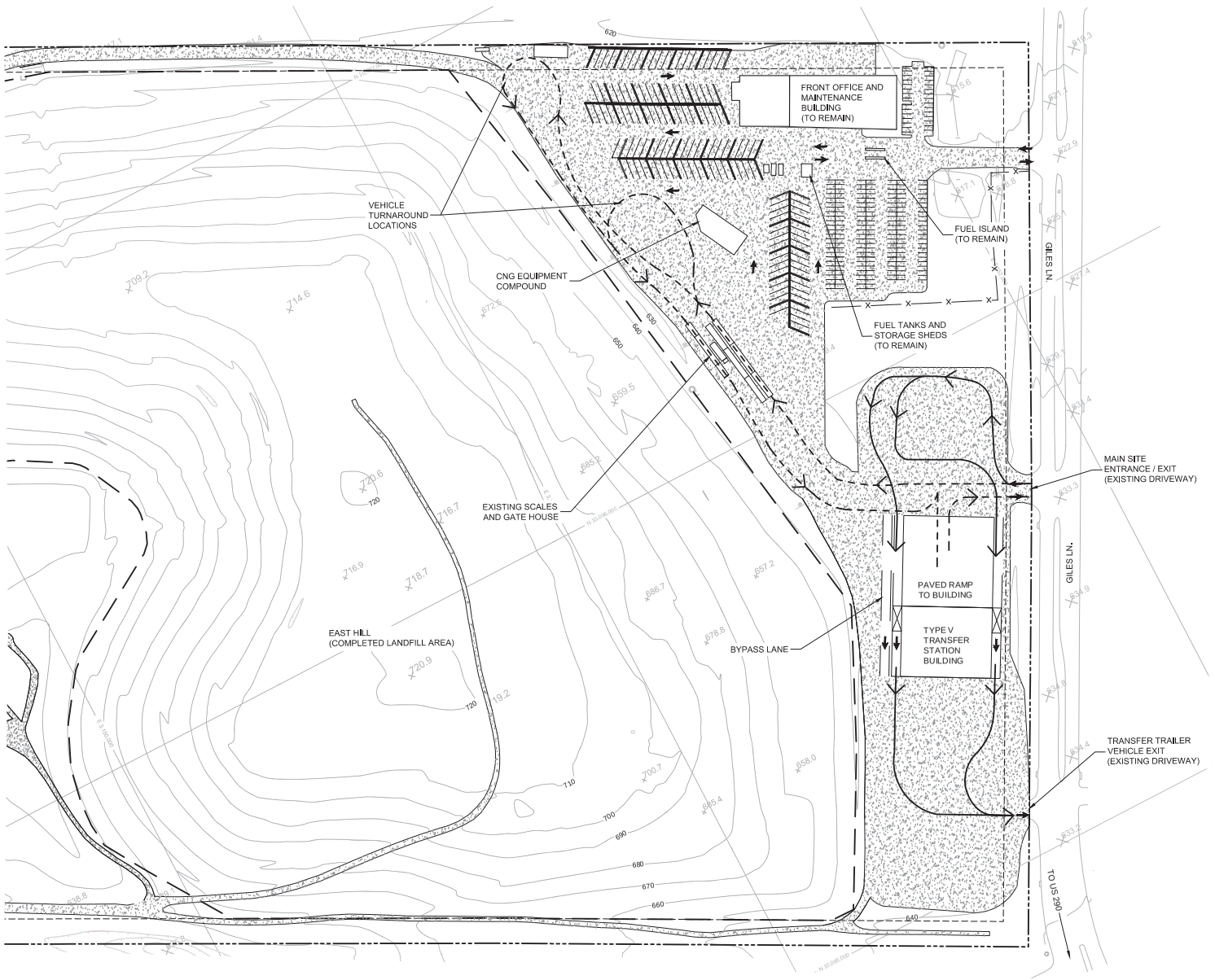
SITE LOCATION MAP
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW REGISTRATION APPLICATION

Geosyntec consultants

PROJECT NO: GW-7107 | SEPTEMBER 2019

FIGURE 1

P:\CADD\PROJECTS\AA\AUSTIN COMMUNITY LANDFILL\PERMIT\TRANSFER STATION 2019 (GW)\FIGURES\TXDOT_F1 - Last Saved by: ABrewster on 9/24/19



NOTES:

1. THE EXISTING FENCE ALONG THE APPROXIMATE REGISTRATION BOUNDARY SHALL REMAIN IN PLACE.
2. BUILDINGS AND FEATURES ARE FOR GENERAL ADMINISTRATIVE AND MAINTENANCE PURPOSES UNLESS OTHERWISE SPECIFIED.
3. TOPOGRAPHIC BASE MAP BASED ON AERIAL PHOTOGRAPHY, FLOWN 20 FEBRUARY 2019 BY DAS GEOSPATIAL.
4. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (FT, MSL) AS DEFINED BY THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. COORDINATE GRID CORRESPONDS TO TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS CENTRAL ZONE (4203), NORTH AMERICAN DATUM 83 (NAD-83) 1983.

SITE PLAN - TRANSFER STATION AREA
AUSTIN COMMUNITY TRANSFER STATION
TYPE V MSW REGISTRATION APPLICATION

Geosyntec consultants

FIGURE 2

PROJECT NO: GW-7107 | SEPTEMBER 2019

COPY OF PREVIOUS TXDOT CORRESPONDENCE AND COMPREHENSIVE TRANSPORTATION STUDY (FOR LANDFILL)

Texas Department of Transportation

MEMORANDUM

To: Tim Grimes
WHM Transportation Engineering
473-8343 Fax 473-8237

Date: January 13, 2005

From: Texas Department of Transportation

Subject: TIA Review

Project: Austin Community Recycling & Disposal Facility
Permit: MSW-249D
US 290

TxDOT has no objections to the Transportation Study. Please contact this office if you require additional information.

Texas Department of Transportation
Driveway and Utility Permit Office

Gary Morris
832-7112 Fax 832-7314

Texas Department of Transportation

P.O. DRAWER 15426 • AUSTIN, TEXAS 78761-5426 • (512) 832-7000

September 29, 2004

Ms Lou Ann Lowe
Golder Associates, Inc.
15603 W Hardy Road Suite 345
Houston TX 77060

Re: Austin Community Recycling & Disposal Facility
Permit: MSW-249D
US 290

Dear Ms Lowe:

The Texas Department of Transportation Traffic Operations Office reviewed the Traffic Impact Analysis for the above site. They provided the following comments.

The TIA show that US 290 intersections will operate at acceptable levels of service, assuming US 290 is upgraded to a six-lane freeway as recommended by the CAMPO 2025 Transportation Plan and the Austin Metropolitan Area Transportation Plan. I find this acceptable. However, until then there are concerns regarding the eastbound left turn storage length for the intersection of US 290 at Giles Lane/Johnny Morris Road. For the year 2007 will this left turn bay be long enough to handle the additional volume?

If you have any further questions, you can contact Ms Imelda Barrett at 512-832-7115.

Sincerely,

Gary Morris
Driveway Permit Coordinator
Austin District

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

< TRANSPORTATION STUDY >

Prepared for

Golder Associates

Prepared by

WHM Transportation Engineering

2717 Rio Grande Street
Austin, Texas 78705 USA
Telephone 512 473-8343
Facsimile 512 473-8237
Website whmeng.com

May 13, 2004

John M. McInturff
5/13/04

TABLE OF CONTENTS

LIST OF FIGURES

FIGURES

LIST OF TABLES

TABLES

AUSTIN COMMUNITY RECYCLING AND DISPOSAL FACILITY

< TRANSPORTATION STUDY >

INTRODUCTION

This report documents the findings of a traffic and roadway study for the proposed expansion of the Austin Community Landfill, located on Giles Lane, between US 290 and Blue Goose Road in Travis County, Texas. This traffic and roadway study was performed to address several requirements of the permit application for the Austin Community Landfill expansion. Relevant sections of the Texas Commission on Environmental Quality (TCEQ) rules are shown and addressed below.

30 TAC 330.53 (b) (9) (A)

Provide data on the availability and adequacy of roads that the applicant will use to access the site.

Traffic to and from the Austin Community Landfill will primarily use Giles Lane via US 290. Access to the landfill is currently provided via a site entrance road on Giles Lane. Descriptions of the following area roadways within one mile of the landfill site are provided:

- US 290
- Giles Lane
- Johnny Morris Road

US 290 – US 290 is a major east-west highway and is the primary access route for the site. This roadway has a four-lane section with a grass median dividing the two directions of travel. The CAMPO 2025 Transportation Plan (Ref. 1) and the Austin Metropolitan Area Transportation

Plan (Ref. 2) recommend US 290 to be upgraded to a six-lane freeway with frontage roads by 2025. Currently, the Texas Department of Transportation (TxDOT) does not have any plans to upgrade this roadway.

As confirmed by TxDOT, there are no weight restrictions on US 290 in the proximity of the site other than the maximum legal weight limit of 80,000 pounds.

Giles Lane – In the vicinity of the site, Giles Lane is a four-lane divided asphalt-surfaced crushed limestone based roadway, consisting of 12-foot travel lanes with a curb and gutter section and a grass median. The roadway pavement condition is on file with the City of Austin as part of the Pavement Management System. Giles Lane between US 290 and Harris Branch Parkway was reconstructed during 2001. General chip seal and pothole treatments are handled on an "as needed basis" with the more serious problems being repaired immediately. If pavement defects are noticed, they are repaired within a few weeks.

Based on information obtained from the City of Austin, the standard weight restriction applies to this roadway within the vicinity of this site: maximum gross weight of 80,000 pounds, with single axle limits of 20,000 pounds and tandem axle limits of 34,000 pounds. There are exceptions to these limits, but a special permit must be obtained for heavier loads. The Austin Police Department routinely patrols the roadway to ensure compliance with these limits.

Johnny Morris Road – Johnny Morris Road is a four-lane undivided asphalt-surfaced roadway, consisting of 12-foot travel lanes. Based on information obtained from the City of Austin, the standard weight restriction applies to this roadway within the vicinity of this site: maximum gross weight of 80,000 pounds, with single axle limits of 20,000 pounds and tandem axle limits of 34,000 pounds. There are exceptions to these limits, but a special permit must be obtained for heavier loads.

Design factors and use restrictions for these roadways are summarized in Table 1.

Table 1.
Access Roadway Characteristics

Highway	Maximum Height (feet)	Maximum Weight (1,000's pounds)	Cross-Section[1] (# of Lanes)	Surface Type	Average Daily Traffic[2]
US 290	-	80	4	Asphalt	31,948
Giles Lane	-	80	4	Asphalt	6,394
Johnny Morris Road	-	80	4	Asphalt	6,285

Notes:
1. Cross-section shown is that for the primary portions of the highway.
2. Average daily traffic volumes were obtained from 2003 WHM 24-hour electronic tube counts, as shown in Tables 2, 3, and 4.

Figure 1 shows the transportation system serving the landfill. Access to the site will continue to be provided via the existing driveway on Giles Lane, as shown in Figure 2.

All roadways which will be used to access the Austin Community Landfill site are adequate for the additional projected traffic due to the proposed landfill expansion. The landfill expansion would increase traffic using US 290, Giles Road, and Johnny Morris Road. No major roadway reconstruction or widening is currently planned for these roadways. However, the CAMPO 2025 Transportation Plan and the Austin Metropolitan Area Transportation Plan recommend upgrade of US 290 to a six-lane freeway by 2025. Routine maintenance by Travis County and the TxDOT should be adequate to keep Giles Lane and Johnny Morris Road in good condition.

Adequacy of Intersection Geometry

Intersection analysis was performed on the intersection of Giles Lane/Johnny Morris Road with US 290, and on the intersection of Giles Lane with Austin Community Landfill Driveway to determine the adequacy of intersection geometry on existing and future traffic conditions. Turning movement counts were collected at the intersection of Giles Lane/Johnny Morris Road

and US 290, and at the intersection of Giles Lane and the Austin Community Landfill Driveway during the AM and PM peak periods on November 19, 2003.

Giles Lane/Johnny Morris Road and US 290

The northbound approach of Johnny Morris Road provides one left turn lane and one through/right shared lane. The southbound approach of Giles Lane provides one left turn lane, two through lanes, and one right turn lane. The eastbound and westbound US 290 approaches each provide one left turn lane, two through lanes, and one right turn lane. Current overall level-of-service (LOS) is C for both the AM and PM peak periods under existing conditions.

The overall intersection LOS is F and E during the AM and PM peak periods, respectively, under 2027 site plus forecasted conditions, assuming no changes in intersection geometry. The CAMPO 2025 Transportation Plan and the Austin Metropolitan Area Transportation Plan recommend upgrade of US 290 to a six-lane freeway by 2025. Assuming the intersection is reconstructed as a signalized diamond interchange with a minimum of two lanes on the eastbound and westbound frontage road approaches as part of this recommended upgrade, the intersection LOS will be B during both the AM and PM peak periods for both the north and south frontage road intersections with Giles Lane.

Giles Lane and Austin Community Landfill Driveway

Giles Lane and the Austin Community Landfill Driveway form an uncontrolled T-intersection. The northbound approach of Giles Lane provides one left turn lane and two through lanes. The southbound approach of Giles Lane provides one through lane and one through/right shared lane. The eastbound approach of the Austin Community Landfill Driveway is not currently striped, but operates as one left turn lane and one right turn lane. Current overall LOS is A for both the AM and PM peak periods under existing conditions. The overall intersection LOS is A during both the AM and PM peak periods under 2027 site plus forecasted conditions, assuming no change in intersection geometry.

FIGURE 1

AREA LOCATION MAP

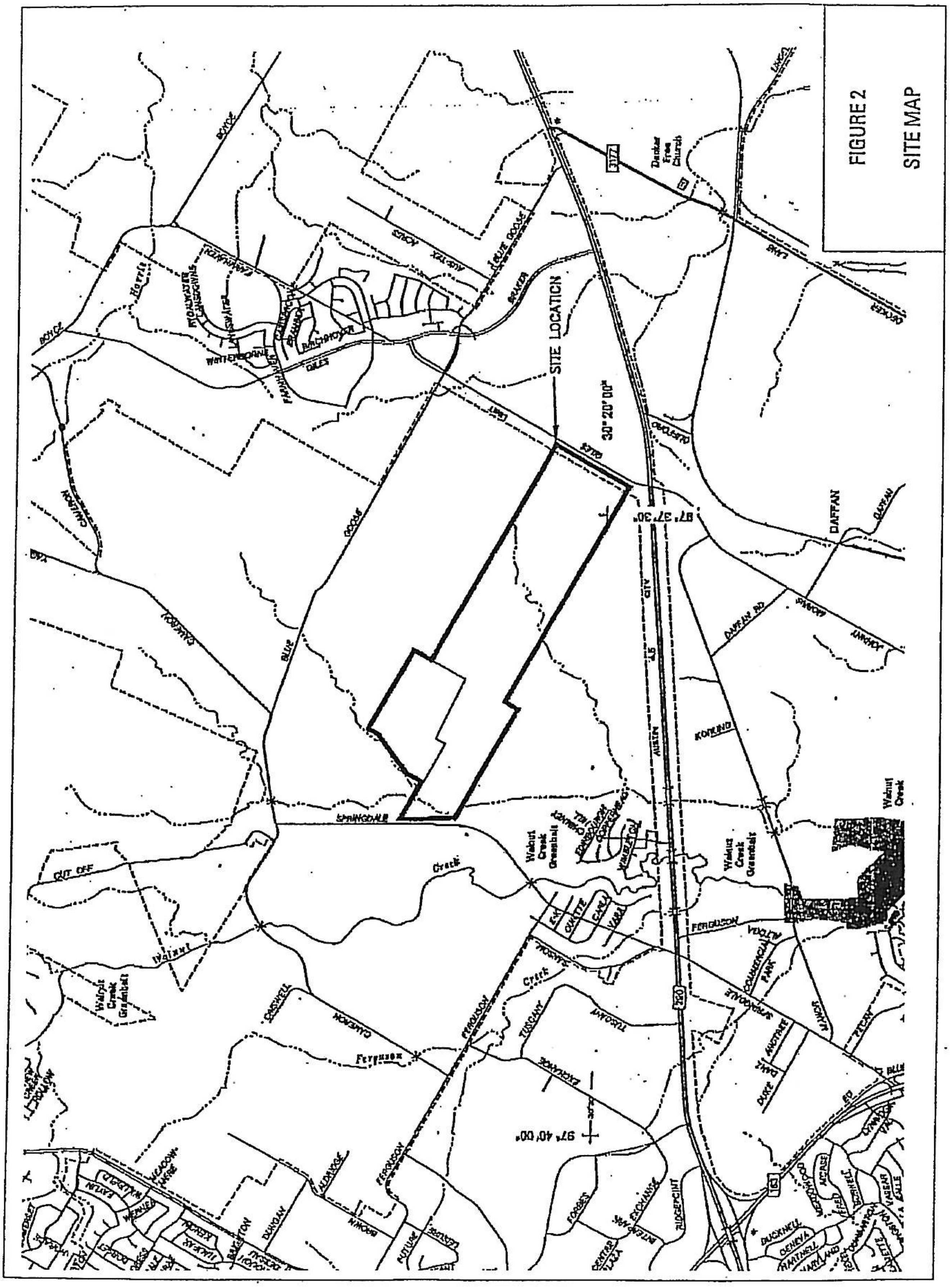


FIGURE 2
SITE MAP
SITE LOCATION
30° 20' 00"
97° 37' 30"
97° 40' 00"

30 TAC 330.53 (b) (9) (B)

Provide data on the volume of vehicular traffic on access roads within one mile of the proposed facility, both existing and expected, during the expected life of the proposed facility.

US 290, Giles Road, and Johnny Morris Road are the three access roads that are within one mile of the Austin Community Landfill site. Traffic volume data collected during the study consisted of automatic tube counts and turning movement counts. Summaries of daily traffic volumes collected during the study period on the roadways mentioned previously are presented in Tables 2, 3, and 4. The traffic counts were conducted during the week of November 17, 2003.

Traffic counts referenced above resulted in the following daily volumes: US 290 at Giles Lane - 31,948, Giles Lane between Austin Community Landfill and US 290 - 6,394 vpd, and Johnny Morris Road south of US 290 - 6,285. Based on traffic counts conducted at the entrance roadway, the Austin Community Landfill generates approximately 390 vehicles per day (vpd).

The landfill is currently in operation. The final year of operation of the landfill is projected to be 2027. Annual growth rates were applied to the roadway network based on information contained in the Capital Area Planning Council's (CAPCO) Regional Solid Waste Management Plan (Ref. 3). In general, traffic volumes increase at rates of two to three percent annually. Given these growth rate assumptions, US 290 will carry approximately 54,631 vpd at Giles Lane, Giles Lane will carry approximately 10,934 vpd between Austin Community Landfill and US 290, and Johnny Morris Road will carry approximately 10,747 vpd south of US 290.

Table 2.
Existing Traffic Volumes – US 290

US 290			
At Giles Lane			
November 18, 2003			
Time	Eastbound	Westbound	Total
12:00 AM	129	118	247
1:00 AM	124	78	202
2:00 AM	108	74	182
3:00 AM	88	74	162
4:00 AM	152	148	300
5:00 AM	323	510	833
6:00 AM	683	1,286	1,969
7:00 AM	863	1,772	2,635
8:00 AM	940	1,185	2,125
9:00 AM	809	928	1,737
10:00 AM	819	732	1,551
11:00 AM	888	860	1,748
12:00 PM	1,204	781	1,985
1:00 PM	1,054	704	1,758
2:00 PM	1,081	710	1,791
3:00 PM	1,302	734	2,036
4:00 PM	1,659	788	2,447
5:00 PM	1,754	838	2,592
6:00 PM	1,154	735	1,889
7:00 PM	769	415	1,184
8:00 PM	602	312	914
9:00 PM	516	245	761
10:00 PM	352	203	555
11:00 PM	216	129	345
Total	**17,589**	**14,359**	**31,948**

Table 3.
Existing Traffic Volumes – Giles Lane

Giles Lane			
Between Austin Community Landfill and US 290			
November 18, 2003			
Time	Northbound	Southbound	Total
12:00 AM	15	2	17
1:00 AM	15	13	28
2:00 AM	28	3	31
3:00 AM	16	9	25
4:00 AM	62	12	74
5:00 AM	139	38	177
6:00 AM	238	124	362
7:00 AM	242	327	569
8:00 AM	234	132	366
9:00 AM	189	148	337
10:00 AM	170	111	281
11:00 AM	173	225	398
12:00 PM	278	176	454
1:00 PM	197	140	337
2:00 PM	213	174	387
3:00 PM	218	213	431
4:00 PM	231	238	469
5:00 PM	343	293	636
6:00 PM	195	196	391
7:00 PM	124	105	229
8:00 PM	81	26	107
9:00 PM	77	37	114
10:00 PM	59	38	97
11:00 PM	37	40	77
Total	**3,574**	**2,820**	**6,394**

Table 4.
Existing Traffic Volumes – Johnny Morris Road

Johnny Morris Road			
South of US 290			
November 18, 2003			
Time	Northbound	Southbound	Total
12:00 AM	53	32	85
1:00 AM	36	73	109
2:00 AM	32	34	66
3:00 AM	30	52	82
4:00 AM	67	57	124
5:00 AM	161	171	332
6:00 AM	209	193	402
7:00 AM	210	271	481
8:00 AM	176	147	323
9:00 AM	126	130	256
10:00 AM	110	121	231
11:00 AM	149	132	281
12:00 PM	142	155	297
1:00 PM	141	137	278
2:00 PM	144	172	316
3:00 PM	190	214	404
4:00 PM	230	212	442
5:00 PM	321	221	542
6:00 PM	192	159	351
7:00 PM	112	111	223
8:00 PM	98	95	193
9:00 PM	106	85	191
10:00 PM	82	78	160
11:00 PM	50	66	116
Total	**3,167**	**3,118**	**6,285**

Roadway Capacity – Existing Conditions

A roadway capacity analysis was performed for Giles Lane and Johnny Morris Road using the microcomputer program "Highway Capacity Software" by the Federal Highway Administration, which is based on the procedures contained in the 2000 Highway Capacity Manual (HCM) (Ref. 4). The capacity of a roadway is based on the peak hour volume. The 2000 HCM uses the highest directional volume on the roadway to determine its capacity. Table 5 summarizes the volumes and LOS results.

Giles Lane, North of US 290

For the purposes of this analysis, Giles Lane was categorized as a four-lane highway for existing conditions. The 2003 existing peak hour northbound directional flow rate of 343 vph on Giles Lane would equate to LOS A conditions.

Johnny Morris Road, South of US 290

For the purposes of this analysis, Johnny Morris Road was categorized as a four-lane highway for existing conditions. The 2003 existing peak hour northbound directional flow rate of 321 vph on Johnny Morris Road would equate to LOS A conditions.

Table 5.
Level of Service for 2003 Existing Traffic Volume

Location	Daily Traffic Volume	Peak Hour Volume	Level of Service
Giles Lane	6,394	*343	A
Johnny Morris Road	6,285	*321	A

*Directional Volume

30 TAC 330.53 (b) (9) (C)

Project the volume of traffic expected to be generated by the facility on the access roads within one mile of the proposed facility.

Future site-generated vehicular traffic volumes were provided by Golder Associates. Currently, the Austin Community Landfill generates an estimated 390 vpd; by the year 2027 the site will generate approximately 667 vpd. Landfill operating hours will be from 2:00 AM to 5:00 PM Monday through Friday, and from 2:00 AM to 3:00 PM on Saturday. To account for high volume days and potential long-term increases in daily waste volumes, a traffic volume of 667 vehicles (or 1,334 trips) per day was evaluated.

Traffic distribution assumptions were determined based on turning movement counts performed at the Austin Community Landfill Driveway and at the intersection of Giles Lane and US 290 during the week of November 17, 2003. Estimated traffic distributions and projected landfill operations are listed below:

- Waste shipment and employee trip origins:
  - From the north along Giles Lane – 20 percent
  - From the south along Johnny Morris Road - 27 percent
  - From the east along US 290 – 7 percent
  - From the west along US 290 - 46 percent
- Shipments of waste are assumed to be distributed from 2:00 AM to 5:00 PM.

Roadway Capacity – Projected Conditions

As discussed previously, a roadway capacity analysis was performed for Giles Lane and Johnny Morris Road using the microcomputer program "Highway Capacity Software" by the Federal Highway Administration, which is based on the procedures contained in the 2000 Highway Capacity Manual (HCM). The capacity of a roadway is based on the peak hour volume. The 2000 HCM uses the highest directional volume on the roadway to determine its capacity.

Assuming annual growth in traffic volumes as described previously, the roadway level of service was evaluated for two years, 2003 and 2027. Traffic volumes were projected using the most recent count information, 2003 traffic volumes collected by WHM, as the base value. Table 6 summarizes hourly volume projections and capacity analysis results for year 2027 projections.

Table 6.
Level of Service for 2027 Traffic Volume Projections
Based on the Capacity of the Proposed Landfill

	w/ Site Traffic		
Location	Hourly Volume	Peak Hour	LOS
Giles Lane	*587	5:00 PM	A
Johnny Morris Road	*549	5:00 PM	A

Note: Landfill operates during 2:00 AM to 5:00 PM
* Directional Volume

It should be noted that these LOS calculations are based on traffic volumes assumed to occur during the peak period of traffic flow, not on daily traffic volumes. It is more appropriate to evaluate a roadway based on its peak hour volume rather than the 24-hour volume, since peak hour volumes provide a better indication of the operating conditions of the roadway.

Site traffic was included as part of traffic volume projections and distributed through the network in the vicinity of the site based on previously stated assumptions.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the information gathered during this transportation study, the following conclusions are made concerning the projected impact of the operation of the proposed Austin Community Landfill Expansion on the local transportation system serving the site.

- No study area roadways were found to have weight or height restrictions which would impact access to the site.
- All intersections within one mile of the site will operate at acceptable levels of service, assuming US 290 is upgraded to a six-lane freeway as recommended by the CAMPO 2025 Transportation Plan and the Austin Metropolitan Area Transportation Plan.
- The roadway capacity analysis indicates that the main access roadways within one mile of the site will operate at acceptable levels of service. Under current operations the landfill traffic accounts for 4.9 percent of the total traffic utilizing Giles Lane. Under projected conditions, landfill traffic is expected to account for 5.0 percent of the total traffic utilizing Giles Lane.
- Based on the information presented previously, there are no existing or future restrictions on the main access roadways within one mile of the site that would preclude safe and efficient operations for landfill vehicles and other traffic in the area.

REFERENCES

1. CAMPO 2025 Transportation Plan, Capital Area Metropolitan Planning Organization in cooperation with The Texas Department of Transportation, Capital Metropolitan Transportation Authority, Travis County, Williamson County, Hays County, and the cities within the CAMPO region, Adopted June 12, 2000, Modifications as of August 7, 2000.
2. Austin Metropolitan Area Transportation Plan, Austin Transportation Study, Adopted June 7, 2001, Amended May 23, 2002.
3. Regional Solid Waste Management Plan 2000-2020, provided by Golder Associates with Preliminary Site Life Calculations, February 2, 2004.
4. Highway Capacity Manual, Transportation Research Board, Washington, D.C., 2000.

APPENDIX

WHM Transportation Eng. Consultants, Inc
2717 Rio Grande St.
Austin, Texas 78705
Ph: (512) 473-8343 Fax: (512) 473-8237

Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIS
Site Code : 00000001
Start Date: 11/19/03
Page : 1

Autos,Heavy Vehicles,Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
07:00	4	23	9	35	19	418	3	4	21	15	3	2	33	144	8	5	746
07:15	6	33	25	45	9	457	5	8	28	23	8	1	59	144	3	8	862
07:30	3	30	13	51	13	471	7	6	21	16	3	4	37	184	6	4	869
07:45	8	30	6	32	19	385	1	2	15	14	5	6	47	159	13	7	749
Hour	21	116	53	163	60	1731	16	20	85	68	19	13	176	631	30	24	3226
08:00	2	29	6	38	16	320	4	5	10	7	2	6	50	164	4	5	668
08:15	1	13	7	37	8	257	3	1	15	10	4	3	52	168	10	8	597
08:30	3	10	10	27	2	296	9	5	15	8	3	9	43	150	10	1	601
08:45	6	10	3	49	8	166	4	4	16	10	0	4	33	147	2	9	471
Hour	12	62	26	151	34	1039	20	15	56	35	9	22	178	629	26	23	2337
Total	33	178	79	314	94	2770	36	35	141	103	28	35	354	1260	56	47	5563
% Apr.	5.4	29.4	13.0	51.9	3.2	94.3	1.2	1.1	45.9	33.5	9.1	11.4	20.6	73.3	3.2	2.7	-
% Int.	0.5	3.1	1.4	5.6	1.6	49.7	0.6	0.6	2.5	1.8	0.5	0.6	6.3	22.6	1.0	0.8	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	07:15				07:00				07:00				07:30			
Vol.	19	122	50	166	60	1731	16	20	85	68	19	13	186	675	33	24
Pct.	5.3	34.1	14.0	46.4	3.2	94.7	0.8	1.0	45.9	36.7	10.2	7.0	20.2	73.5	3.5	2.6
Total	357				1827				185				918			
High	07:15				07:30				07:15				08:15			
Vol.	6	33	25	45	13	471	7	6	28	23	8	1	52	168	10	8
Total	109				497				60				238			
PHF	0.818				0.919				0.770				0.964			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	07:00				07:00				07:00				07:00			
Vol.	21	116	53	163	60	1731	16	20	85	68	19	13	176	631	30	24
Pct.	5.9	32.8	15.0	46.1	3.2	94.7	0.8	1.0	45.9	36.7	10.2	7.0	20.4	73.2	3.4	2.7
Total	353				1827				185				861			
High	07:15				07:30				07:15				07:30			
Vol.	6	33	25	45	13	471	7	6	28	23	8	1	37	184	6	4
Total	109				497				60				231			
PHF	0.809				0.919				0.770				0.931			

$$PHF = \frac{3226}{4 \times 869} = .93$$

$$\%\,HV = \frac{216}{3226} = 6.7\,\%$$

WHM Transportation Eng. Consultants, Inc
2717 Rio Grande St.
Austin, Texas 78705
Ph: (512) 473-8343 Fax: (512) 473-8237

Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIS
Site Code : 00000001
Start Date: 11/19/03
Page : 1

Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
07:00	2	0	2	6	0	1	0	0	0	0	0	0	2	0	0	0	13
07:15	2	0	3	4	0	1	1	1	0	1	0	0	8	0	0	0	21
07:30	1	0	2	5	0	0	1	0	0	1	0	0	2	0	0	0	12
07:45	6	1	1	3	0	0	0	0	0	0	0	0	2	0	0	0	13
Hour	11	1	8	18	0	2	2	1	0	2	0	0	14	0	0	0	59
08:00	2	0	2	9	0	4	0	1	0	0	0	0	3	1	0	1	23
08:15	0	0	1	4	0	0	0	0	0	2	0	0	4	1	0	0	12
08:30	1	1	3	7	0	1	4	2	0	0	0	0	3	1	0	0	23
08:45	2	0	0	4	1	0	0	2	0	1	0	0	7	0	0	0	17
Hour	5	1	6	24	1	5	4	5	0	3	0	0	17	3	0	1	75
Total	16	2	14	42	1	7	6	6	0	5	0	0	31	3	0	1	134
% Apr.	21.6	2.7	18.9	56.7	5.0	35.0	30.0	30.0	-	100.0	-	-	88.5	8.5	-	2.8	-
% Int.	11.9	1.4	10.4	31.3	0.7	5.2	4.4	4.4	-	3.7	-	-	23.1	2.2	-	0.7	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	07:15				08:00				07:30				08:00			
Vol.	11	1	8	21	1	5	4	5	0	3	0	0	17	3	0	1
Pct.	26.8	2.4	19.5	51.2	6.6	33.3	26.6	33.3	0.0	100.0	0.0	0.0	80.9	14.2	0.0	4.7
Total	41				15				3				21			
High	08:00				08:30				08:15				08:45			
Vol.	2	0	2	9	0	1	4	2	0	2	0	0	7	0	0	0
Total	13				7				2				7			
PHF	0.788				0.535				0.375				0.750			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	08:00				08:00				08:00				08:00			
Vol.	5	1	6	24	1	5	4	5	0	3	0	0	17	3	0	1
Pct.	13.8	2.7	16.6	66.6	6.6	33.3	26.6	33.3	0.0	100.0	0.0	0.0	80.9	14.2	0.0	4.7
Total	36				15				3				21			
High	08:00				08:30				08:15				08:45			
Vol.	2	0	2	9	0	1	4	2	0	2	0	0	7	0	0	0
Total	13				7				2				7			
PHF	0.692				0.535				0.375				0.750			

WHM Transportation Eng. Consultants, Inc
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Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIS
Site Code : 00000001
Start Date: 11/19/03
Page : 1

Heavy Vehicles

Start Time	Giles Ln. Southbound				US 290 Westbound				Johnny Morris Rd. Northbound				US 290 Eastbound				Intvl. Total
	Left	Thru	Right	RTOR	Left	Thru	Right	RTOR	Left	Thru	Right	RTOR	Left	Thru	Right	RTOR	
11/19/03																	
07:00	0	2	0	1	0	18	0	0	3	2	0	0	0	5	0	0	31
07:15	1	0	2	0	0	10	1	0	7	1	0	0	4	8	0	1	35
07:30	0	0	0	2	2	19	1	0	9	0	0	0	7	7	2	0	49
07:45	1	1	1	3	3	16	0	1	1	1	1	1	7	4	1	0	42
Hour	2	3	3	6	5	63	2	1	20	4	1	1	18	24	3	1	157
08:00	0	1	2	5	0	20	0	0	2	1	0	3	2	12	0	3	51
08:15	0	0	0	5	1	18	0	0	4	1	0	1	9	16	4	3	62
08:30	0	0	1	3	1	25	2	1	0	0	2	1	7	5	4	0	52
08:45	0	0	1	9	1	20	4	1	5	0	0	2	3	13	0	3	62
Hour	0	1	4	22	3	83	6	2	11	2	2	7	21	46	8	9	227
Total	2	4	7	28	8	146	8	3	31	6	3	8	39	70	11	10	384
% Apr.	4.8	9.7	17.0	68.2	4.8	88.4	4.8	1.8	64.5	12.5	6.2	16.6	30.0	53.8	8.4	7.6	-
% Int.	0.5	1.0	1.8	7.2	2.0	38.0	2.0	0.7	8.0	1.5	0.7	2.0	10.1	18.2	2.8	2.6	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	08:00				08:00				07:15				08:00			
Vol.	0	1	4	22	3	83	6	2	19	3	1	4	21	46	8	9
Pct.	0.0	3.7	14.8	81.4	3.1	88.2	6.3	2.1	70.3	11.1	3.7	14.8	25.0	54.7	9.5	10.7
Total	27				94				27				84			
High	08:45				08:30				07:30				08:15			
Vol.	0	0	1	9	1	25	2	1	9	0	0	0	9	16	4	3
Total	10				29				9				32			
PHF	0.675				0.810				0.750				0.656			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	08:00				08:00				08:00				08:00			
Vol.	0	1	4	22	3	83	6	2	11	2	2	7	21	46	8	9
Pct.	0.0	3.7	14.8	81.4	3.1	88.2	6.3	2.1	50.0	9.0	9.0	31.8	25.0	54.7	9.5	10.7
Total	27				94				22				84			
High	08:45				08:30				08:45				08:15			
Vol.	0	0	1	9	1	25	2	1	5	0	0	2	9	16	4	3
Total	10				29				7				32			
PHF	0.675				0.810				0.785				0.656			

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Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIS
Site Code : 00000001
Start Date: 11/19/03
Page : 1

Autos

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
07:00	2	21	7	28	19	399	3	4	18	13	3	2	31	139	8	5	702
07:15	3	33	20	41	9	446	3	7	21	21	8	1	47	136	3	7	806
07:30	2	30	11	44	11	452	5	6	12	15	3	4	28	177	4	4	808
07:45	1	28	4	26	16	369	1	1	14	13	4	5	38	155	12	7	694
Hour	8	112	42	139	55	1666	12	18	65	62	18	12	144	607	27	23	3010
08:00	0	28	2	24	16	296	4	4	8	6	2	3	45	151	4	1	594
08:15	1	13	6	28	7	239	3	1	11	7	4	2	39	151	6	5	523
08:30	2	9	6	17	1	270	3	2	15	8	1	8	33	144	6	1	526
08:45	4	10	2	36	6	146	0	1	11	9	0	2	23	134	2	6	392
Hour	7	60	16	105	30	951	10	8	45	30	7	15	140	580	18	13	2035
Total	15	172	58	244	85	2617	22	26	110	92	25	27	284	1187	45	36	5045
% Apr.	3.0	35.1	11.8	49.8	3.0	95.1	0.8	0.9	43.3	36.2	9.8	10.6	18.2	76.4	2.8	2.3	-
% Int.	0.2	3.4	1.1	4.8	1.6	51.8	0.4	0.5	2.1	1.8	0.4	0.5	5.6	23.5	0.8	0.7	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	07:00				07:00				07:00				07:30			
Vol.	8	112	42	139	55	1666	12	18	65	62	18	12	150	634	26	17
Pct.	2.6	37.2	13.9	46.1	3.1	95.1	0.6	1.0	41.4	39.4	11.4	7.6	18.1	76.6	3.1	2.0
Total	301				1751				157				827			
High	07:15				07:30				07:15				07:30			
Vol.	3	33	20	41	11	452	5	6	21	21	8	1	28	177	4	4
Total	97				474				51				213			
PHF	0.775				0.923				0.769				0.970			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/19/03 to 08:45 on 11/19/03

Time	07:00				07:00				07:00				07:00			
Vol.	8	112	42	139	55	1666	12	18	65	62	18	12	144	607	27	23
Pct.	2.6	37.2	13.9	46.1	3.1	95.1	0.6	1.0	41.4	39.4	11.4	7.6	17.9	75.7	3.3	2.8
Total	301				1751				157				801			
High	07:15				07:30				07:15				07:30			
Vol.	3	33	20	41	11	452	5	6	21	21	8	1	28	177	4	4
Total	97				474				51				213			
PHF	0.775				0.923				0.769				0.940			

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Weather :C/C
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Project :Austin Community Landfill

Study Name: US290GIP
Site Code : 00000002
Start Date: 11/19/03
Page : 1

Autos,Heavy Vehicles,LAndfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
16:00	7	21	4	31	12	197	4	6	21	21	5	2	30	343	13	9	726
16:15	2	11	1	36	5	189	2	1	22	23	5	5	29	320	10	9	670
16:30	8	16	5	36	9	193	2	12	27	25	3	7	39	343	6	6	737
16:45	6	21	8	31	10	137	1	3	17	33	7	2	36	348	12	7	679
Hour	23	69	18	134	36	716	9	22	87	102	20	16	134	1354	41	31	2812
17:00	9	17	7	48	5	224	1	2	26	46	10	3	35	397	7	6	843
17:15	6	22	12	63	5	222	1	9	16	40	8	7	41	391	6	4	853
17:30	7	25	6	46	17	207	1	5	19	41	8	6	30	417	8	5	848
17:45	3	22	5	41	5	212	2	3	20	49	5	3	38	336	12	10	766
Hour	25	86	30	198	32	865	5	19	81	176	31	19	144	1541	33	25	3310
Total	48	155	48	332	68	1581	14	41	168	278	51	35	278	2895	74	56	6122
% Apr.	8.2	26.5	8.2	56.9	3.9	92.7	0.8	2.4	31.5	52.2	9.5	6.5	8.4	87.6	2.2	1.6	-
% Int.	0.7	2.5	0.7	5.4	1.1	25.8	0.2	0.6	2.7	4.5	0.8	0.5	4.5	47.2	1.2	0.9	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	17:00				17:00				17:00				16:45			
Vol.	25	86	30	198	32	865	5	19	81	176	31	19	142	1553	33	22
Pct.	7.3	25.3	8.8	58.4	3.4	93.9	0.5	2.0	26.3	57.3	10.0	6.1	8.1	88.7	1.8	1.2
Total	339				921				307				1750			
High	17:15				17:15				17:00				17:30			
Vol.	6	22	12	63	5	222	1	9	26	46	10	3	30	417	8	5
Total	103				237				85				460			
PHF	0.822				0.971				0.902				0.951			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	17:00				17:00				17:00				17:00			
Vol.	25	86	30	198	32	865	5	19	81	176	31	19	144	1541	33	25
Pct.	7.3	25.3	8.8	58.4	3.4	93.9	0.5	2.0	26.3	57.3	10.0	6.1	8.2	88.4	1.8	1.4
Total	339				921				307				1743			
High	17:15				17:15				17:00				17:30			
Vol.	6	22	12	63	5	222	1	9	26	46	10	3	30	417	8	5
Total	103				237				85				460			
PHF	0.822				0.971				0.902				0.947			

$$PHF = \frac{3310}{4 \times 853} = .97$$

$$\%\ HV = \frac{139}{3310} = 4.2\ \%$$

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Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIP
Site Code : 00000002
Start Date: 11/19/03

LAndfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
16:00	1	1	0	2	0	0	2	0	0	1	0	0	1	0	0	0	8
16:15	0	2	0	1	0	1	0	0	0	0	0	0	3	1	0	0	8
16:30	3	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	6
16:45	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
Hour	6	3	0	4	0	1	2	2	0	1	0	0	5	1	0	0	25
17:00	2	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	5
17:15	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	5
17:30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
17:45	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
Hour	4	1	1	2	0	1	2	1	0	0	0	0	1	0	0	0	13
Total	10	4	1	6	0	2	4	3	0	1	0	0	6	1	0	0	38
% Apr.	47.6	19.0	4.7	28.5	-	22.2	44.4	33.3	-	100.0	-	-	85.7	14.2	-	-	-
% Int.	26.3	10.5	2.6	15.7	-	5.2	10.5	7.8	-	2.6	-	-	15.7	2.6	-	-	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	16:00				16:00				16:00				16:00			
Vol.	6	3	0	4	0	1	2	2	0	1	0	0	5	1	0	0
Pct.	46.1	23.0	0.0	30.7	0.0	20.0	40.0	40.0	0.0	100.0	0.0	0.0	83.3	16.6	0.0	0.0
Total	13				5				1				6			
High	16:00				16:00				16:00				16:15			
Vol.	1	1	0	2	0	0	2	0	0	1	0	0	3	1	0	0
Total	4				2				1				4			
PHF	0.812				0.625				0.250				0.375			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	16:00				16:00				16:00				16:00			
Vol.	6	3	0	4	0	1	2	2	0	1	0	0	5	1	0	0
Pct.	46.1	23.0	0.0	30.7	0.0	20.0	40.0	40.0	0.0	100.0	0.0	0.0	83.3	16.6	0.0	0.0
Total	13				5				1				6			
High	16:00				16:00				16:00				16:15			
Vol.	1	1	0	2	0	0	2	0	0	1	0	0	3	1	0	0
Total	4				2				1				4			
PHF	0.812				0.625				0.250				0.375			

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Weather :C/C
Counted by:DS
Board # :
Project :Austin Community Landfill

Study Name: US290GIP
Site Code : 00000002
Start Date: 11/19/03
Page : 1

Heavy Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
16:00	0	3	1	7	0	15	0	1	2	2	0	0	4	11	2	1	49
16:15	1	1	0	7	1	20	0	0	1	1	0	2	7	11	2	0	54
16:30	0	2	1	3	1	12	0	1	2	1	0	0	5	8	0	1	37
16:45	0	0	0	2	1	11	1	1	0	2	0	0	6	11	2	1	38
Hour	1	6	2	19	3	58	1	3	5	6	0	2	22	41	6	3	178
17:00	0	0	1	5	0	12	0	0	3	0	0	0	2	12	2	2	39
17:15	3	4	0	5	0	13	0	0	1	1	0	1	1	5	0	0	34
17:30	1	2	0	2	2	9	0	2	3	1	0	0	1	5	2	0	30
17:45	0	2	0	0	1	8	0	0	2	1	0	1	2	2	3	1	23
Hour	4	8	1	12	3	42	0	2	9	3	0	2	6	24	7	3	126
Total	5	14	3	31	6	100	1	5	14	9	0	4	28	65	13	6	304
% Apr.	9.4	26.4	5.6	58.4	5.3	89.2	0.8	4.4	51.8	33.3	-	14.8	25.0	58.0	11.6	5.3	-
% Int.	1.6	4.6	0.9	10.1	1.9	32.8	0.3	1.6	4.6	2.9	-	1.3	9.2	21.3	4.2	1.9	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	16:00				16:00				17:00				16:00			
Vol.	1	6	2	19	3	58	1	3	9	3	0	2	22	41	6	3
Pct.	3.5	21.4	7.1	67.8	4.6	89.2	1.5	4.6	64.2	21.4	0.0	14.2	30.5	56.9	8.3	4.1
Total	28				65				14				72			
High	16:00				16:15				17:30				16:15			
Vol.	0	3	1	7	1	20	0	0	3	1	0	0	7	11	2	0
Total	11				21				4				20			
PHF	0.636				0.773				0.875				0.900			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	16:00				16:00				16:00				16:00			
Vol.	1	6	2	19	3	58	1	3	5	6	0	2	22	41	6	3
Pct.	3.5	21.4	7.1	67.8	4.6	89.2	1.5	4.6	38.4	46.1	0.0	15.3	30.5	56.9	8.3	4.1
Total	28				65				13				72			
High	16:00				16:15				16:00				16:15			
Vol.	0	3	1	7	1	20	0	0	2	2	0	0	7	11	2	0
Total	11				21				4				20			
PHF	0.636				0.773				0.812				0.900			

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Project :Austin Community Landfill

Study Name: US290GIP
Site Code : 00000002
Start Date: 11/19/03
Page : 1

Autos

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	US 290 Westbound Left	Thru	Right	RTOR RTOR	Johnny Morris Rd. Northbound Left	Thru	Right	RTOR RTOR	US 290 Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/19/03																	
16:00	6	17	3	22	12	182	2	5	19	18	5	2	25	332	11	8	669
16:15	1	8	1	28	4	168	2	1	21	22	5	3	19	308	8	9	608
16:30	5	14	4	33	8	181	2	9	25	24	3	7	33	335	6	5	694
16:45	4	21	8	28	9	126	0	2	17	31	7	2	30	337	10	6	638
Hour	16	60	16	111	33	657	6	17	82	95	20	14	107	1312	35	28	2609
17:00	7	17	5	43	5	212	1	1	23	46	10	3	32	385	5	4	799
17:15	2	17	12	57	5	208	0	9	15	39	8	6	40	386	6	4	814
17:30	6	23	6	43	15	198	1	3	16	40	8	6	29	412	6	5	817
17:45	2	20	5	41	4	204	1	3	18	48	5	2	36	334	9	9	741
Hour	17	77	28	184	29	822	3	16	72	173	31	17	137	1517	26	22	3171
Total	33	137	44	295	62	1479	9	33	154	268	51	31	244	2829	61	50	5780
% Apr.	6.4	26.9	8.6	57.9	3.9	93.4	0.5	2.0	30.5	53.1	10.1	6.1	7.6	88.8	1.9	1.5	-
% Int.	0.5	2.3	0.7	5.1	1.0	25.5	0.1	0.5	2.6	4.6	0.8	0.5	4.2	48.9	1.0	0.8	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	17:00				17:00				17:00				17:00			
Vol.	17	77	28	184	29	822	3	16	72	173	31	17	137	1517	26	22
Pct.	5.5	25.1	9.1	60.1	3.3	94.4	0.3	1.8	24.5	59.0	10.5	5.8	8.0	89.1	1.5	1.2
Total	306				870				293				1702			
High	17:15				17:15				17:00				17:30			
Vol.	2	17	12	57	5	208	0	9	23	46	10	3	29	412	6	5
Total	88				222				82				452			
PHF	0.869				0.979				0.893				0.941			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/19/03 to 17:45 on 11/19/03

Time	17:00				17:00				17:00				17:00			
Vol.	17	77	28	184	29	822	3	16	72	173	31	17	137	1517	26	22
Pct.	5.5	25.1	9.1	60.1	3.3	94.4	0.3	1.8	24.5	59.0	10.5	5.8	8.0	89.1	1.5	1.2
Total	306				870				293				1702			
High	17:15				17:15				17:00				17:30			
Vol.	2	17	12	57	5	208	0	9	23	46	10	3	29	412	6	5
Total	88				222				82				452			
PHF	0.869				0.979				0.893				0.941			

WHM Transportation Eng. Consultants, Inc
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Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSA
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Autos,Heavy Vehicles,Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
07:00	0	55	5	0	0	0	0	0	8	45	0	0	0	0	2	0	115
07:15	0	89	3	0	0	0	0	0	5	64	0	0	2	0	12	0	175
07:30	0	118	5	0	0	0	0	0	11	59	0	0	2	0	5	0	200
07:45	0	76	0	0	0	0	0	0	12	38	0	0	3	0	8	0	137
Hour	0	338	13	0	0	0	0	0	36	206	0	0	7	0	27	0	627
08:00	0	61	2	0	0	0	0	0	9	74	0	0	0	0	6	0	152
08:15	0	52	5	0	0	0	0	0	4	60	0	0	3	0	6	0	130
08:30	0	66	6	0	0	0	0	0	9	60	0	0	2	0	9	0	152
08:45	0	63	3	0	0	0	0	0	12	43	0	0	5	0	11	0	137
Hour	0	242	16	0	0	0	0	0	34	237	0	0	10	0	32	0	571
Total	0	580	29	0	0	0	0	0	70	443	0	0	17	0	59	0	1198
% Apr.	-	95.2	4.7	-	-	-	-	-	13.6	86.3	-	-	22.3	-	77.6	-	-
% Int.	-	48.4	2.4	-	-	-	-	-	5.8	36.9	-	-	1.4	-	4.9	-	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	07:15				07:00				07:15				08:00			
Vol.	0	344	10	0	0	0	0	0	37	235	0	0	10	0	32	0
Pct.	0.0	97.1	2.8	0.0	0.0	0.0	0.0	0.0	13.6	86.3	0.0	0.0	23.8	0.0	76.1	0.0
Total	354				0				272				42			
High	07:30				07:30				08:00				08:45			
Vol.	0	118	5	0	0	0	0	0	9	74	0	0	5	0	11	0
Total	123				0				83				16			
PHF	0.719				0.000				0.819				0.656			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	07:15				07:15				07:15				07:15			
Vol.	0	344	10	0	0	0	0	0	37	235	0	0	7	0	31	0
Pct.	0.0	97.1	2.8	0.0	0.0	0.0	0.0	0.0	13.6	86.3	0.0	0.0	18.4	0.0	81.5	0.0
Total	354				0				272				38			
High	07:30				07:30				08:00				07:15			
Vol.	0	118	5	0	0	0	0	0	9	74	0	0	2	0	12	0
Total	123				0				83				14			
PHF	0.719				0.000				0.819				0.678			

$$PHF = \frac{664}{4 \times 200} = .83$$

$$\%HV = \frac{125}{664} = 18.8\ \%$$

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Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSA
Site Code : 00000000
Start Date: 11/20/03

Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
07:00	0	4	1	0	0	0	0	0	3	5	0	0	0	0	2	0	15
07:15	0	7	3	0	0	0	0	0	0	8	0	0	0	0	8	0	26
07:30	0	11	3	0	0	0	0	0	6	5	0	0	2	0	1	0	28
07:45	0	5	0	0	0	0	0	0	4	7	0	0	3	0	4	0	23
Hour	0	27	7	0	0	0	0	0	13	25	0	0	5	0	15	0	92
08:00	0	11	1	0	0	0	0	0	5	14	0	0	0	0	4	0	35
08:15	0	12	1	0	0	0	0	0	1	18	0	0	1	0	3	0	36
08:30	0	17	1	0	0	0	0	0	4	11	0	0	2	0	2	0	37
08:45	0	12	3	0	0	0	0	0	9	11	0	0	2	0	5	0	42
Hour	0	52	6	0	0	0	0	0	19	54	0	0	5	0	14	0	150
Total	0	79	13	0	0	0	0	0	32	79	0	0	10	0	29	0	242
% Apr.	-	85.8	14.1	-	-	-	-	-	28.8	71.1	-	-	25.6	-	74.3	-	-
% Int.	-	32.6	5.3	-	-	-	-	-	13.2	32.6	-	-	4.1	-	11.9	-	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	08:00				07:00				08:00				07:15			
Vol.	0	52	6	0	0	0	0	0	19	54	0	0	5	0	17	0
Pct.	0.0	89.6	10.3	0.0	0.0	0.0	0.0	0.0	26.0	73.9	0.0	0.0	22.7	0.0	77.2	0.0
Total	58				0				73				22			
High	08:30				08:30				08:45				07:15			
Vol.	0	17	1	0	0	0	0	0	9	11	0	0	0	0	8	0
Total	18				0				20				8			
PHF	0.805				0.000				0.912				0.687			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	08:00				08:00				08:00				08:00			
Vol.	0	52	6	0	0	0	0	0	19	54	0	0	5	0	14	0
Pct.	0.0	89.6	10.3	0.0	0.0	0.0	0.0	0.0	26.0	73.9	0.0	0.0	26.3	0.0	73.6	0.0
Total	58				0				73				19			
High	08:30				08:30				08:45				08:45			
Vol.	0	17	1	0	0	0	0	0	9	11	0	0	2	0	5	0
Total	18				0				20				7			
PHF	0.805				0.000				0.912				0.678			

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Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSA
Site Code : 00000000
Start Date: 11/20/03

Heavy Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
07:00	0	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0	8
07:15	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
07:30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
07:45	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hour	0	7	1	0	0	0	0	0	0	7	0	0	0	0	0	0	15
08:00	0	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	6
08:15	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
08:30	0	3	1	0	0	0	0	0	0	2	0	0	0	0	1	0	7
08:45	0	6	0	0	0	0	0	0	0	2	0	0	0	0	0	0	8
Hour	0	12	1	0	0	0	0	0	0	10	0	0	0	0	1	0	24
Total	0	19	2	0	0	0	0	0	0	17	0	0	0	0	1	0	39
% Apr.	-	90.4	9.5	-	-	-	-	-	-	100.0	-	-	-	-	100.0	-	-
% Int.	-	48.7	5.1	-	-	-	-	-	-	43.5	-	-	-	-	2.5	-	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	08:00				07:00				08:00				07:45			
Vol.	0	12	1	0	0	0	0	0	0	10	0	0	0	0	1	0
Pct.	0.0	92.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0
Total	13				0				10				1			
High	08:45				08:45				08:00				08:30			
Vol.	0	6	0	0	0	0	0	0	0	5	0	0	0	0	1	0
Total	6				0				5				1			
PHF	0.541				0.000				0.500				0.250			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	08:00				08:00				08:00				08:00			
Vol.	0	12	1	0	0	0	0	0	0	10	0	0	0	0	1	0
Pct.	0.0	92.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0
Total	13				0				10				1			
High	08:45				08:45				08:00				08:30			
Vol.	0	6	0	0	0	0	0	0	0	5	0	0	0	0	1	0
Total	6				0				5				1			
PHF	0.541				0.000				0.500				0.250			

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Weather :C/C
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Board # :
Project :Austin Community Landfill

Study Name: GILSAUSA
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Autos

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
07:00	0	47	3	0	0	0	0	0	5	37	0	0	0	0	0	0	92
07:15	0	81	0	0	0	0	0	0	5	55	0	0	2	0	4	0	147
07:30	0	107	2	0	0	0	0	0	5	51	0	0	0	0	4	0	169
07:45	0	69	0	0	0	0	0	0	8	31	0	0	0	0	4	0	112
Hour	0	304	5	0	0	0	0	0	23	174	0	0	2	0	12	0	520
08:00	0	49	1	0	0	0	0	0	4	55	0	0	0	0	2	0	111
08:15	0	38	4	0	0	0	0	0	3	41	0	0	2	0	3	0	91
08:30	0	46	4	0	0	0	0	0	5	47	0	0	0	0	6	0	108
08:45	0	45	0	0	0	0	0	0	3	30	0	0	3	0	6	0	87
Hour	0	178	9	0	0	0	0	0	15	173	0	0	5	0	17	0	397
Total	0	482	14	0	0	0	0	0	38	347	0	0	7	0	29	0	917
% Apr.	-	97.1	2.8	-	-	-	-	-	9.8	90.1	-	-	19.4	-	80.5	-	-
% Int.	-	52.5	1.5	-	-	-	-	-	4.1	37.8	-	-	0.7	-	3.1	-	-

Peak Hour Analysis By Individual Approach for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	07:00				07:00				07:15				08:00			
Vol.	0	304	5	0	0	0	0	0	22	192	0	0	5	0	17	0
Pct.	0.0	98.3	1.6	0.0	0.0	0.0	0.0	0.0	10.2	89.7	0.0	0.0	22.7	0.0	77.2	0.0
Total	309				0				214				22			
High	07:30				07:30				07:15				08:45			
Vol.	0	107	2	0	0	0	0	0	5	55	0	0	3	0	6	0
Total	109				0				60				9			
PHF	0.708				0.000				0.891				0.611			

Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/20/03 to 08:45 on 11/20/03

Time	07:15				07:15				07:15				07:15			
Vol.	0	306	3	0	0	0	0	0	22	192	0	0	2	0	14	0
Pct.	0.0	99.0	0.9	0.0	0.0	0.0	0.0	0.0	10.2	89.7	0.0	0.0	12.5	0.0	87.5	0.0
Total	309				0				214				16			
High	07:30				07:30				07:15				07:15			
Vol.	0	107	2	0	0	0	0	0	5	55	0	0	2	0	4	0
Total	109				0				60				6			
PHF	0.708				0.000				0.891				0.666			

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Board # :
Project :Austin Community Landfill

Study Name: GILSAUSP
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Autos,Heavy Vehicles,Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
16:00	0	68	2	0	0	0	0	0	5	41	0	0	2	0	7	0	125
16:15	0	58	1	0	0	0	0	0	6	47	0	0	2	0	5	0	119
16:30	0	69	2	0	0	0	0	0	2	66	0	0	2	0	3	0	144
16:45	0	66	0	0	0	0	0	0	7	76	0	0	2	0	8	0	159
Hour	0	261	5	0	0	0	0	0	20	230	0	0	8	0	23	0	547
17:00	0	78	0	0	0	0	0	0	0	79	0	0	1	0	3	0	161
17:15	0	98	0	0	0	0	0	0	2	84	1	0	0	0	1	0	186
17:30	0	90	1	0	0	0	0	0	0	79	0	0	1	0	0	0	171
17:45	0	51	0	0	0	0	0	0	1	76	0	0	2	0	6	0	136
Hour	0	317	1	0	0	0	0	0	3	318	1	0	4	0	10	0	654
Total	0	578	6	0	0	0	0	0	23	548	1	0	12	0	33	0	1201
% Apr.	-	98.9	1.0	-	-	-	-	-	4.0	95.8	0.1	-	26.6	-	73.3	-	-
% Int.	-	48.1	0.4	-	-	-	-	-	1.9	45.6	-	-	0.9	-	2.7	-	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:45				16:00				16:45				16:00			
Vol.	0	332	1	0	0	0	0	0	9	318	1	0	8	0	23	0
Pct.	0.0	99.6	0.3	0.0	0.0	0.0	0.0	0.0	2.7	96.9	0.3	0.0	25.8	0.0	74.1	0.0
Total	333				0				328				31			
High	17:15				17:15				17:15				16:45			
Vol.	0	98	0	0	0	0	0	0	2	84	1	0	2	0	8	0
Total	98				0				87				10			
PHF	0.849				0.000				0.942				0.775			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:45				16:45				16:45				16:45			
Vol.	0	332	1	0	0	0	0	0	9	318	1	0	4	0	12	0
Pct.	0.0	99.6	0.3	0.0	0.0	0.0	0.0	0.0	2.7	96.9	0.3	0.0	25.0	0.0	75.0	0.0
Total	333				0				328				16			
High	17:15				17:15				17:15				16:45			
Vol.	0	98	0	0	0	0	0	0	2	84	1	0	2	0	8	0
Total	98				0				87				10			
PHF	0.849				0.000				0.942				0.400			

$$PHF = \frac{677}{4 \times 186} = .91$$

$$\%\,HV = \frac{62}{677} = 9.2\,\%$$

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Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSP
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Landfill Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
16:00	0	18	0	0	0	0	0	0	4	3	0	0	1	0	4	0	30
16:15	0	11	0	0	0	0	0	0	4	11	0	0	0	0	2	0	28
16:30	0	11	1	0	0	0	0	0	1	8	0	0	2	0	1	0	24
16:45	0	10	0	0	0	0	0	0	2	8	0	0	1	0	2	0	23
Hour	0	50	1	0	0	0	0	0	11	30	0	0	4	0	9	0	105
17:00	0	3	0	0	0	0	0	0	0	10	0	0	1	0	0	0	14
17:15	0	8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	10
17:30	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17:45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hour	0	14	0	0	0	0	0	0	0	12	0	0	1	0	0	0	27
Total	0	64	1	0	0	0	0	0	11	42	0	0	5	0	9	0	132
% Apr.	-	98.4	1.5	-	-	-	-	-	20.7	79.2	-	-	35.7	-	64.2	-	-
% Int.	-	48.4	0.7	-	-	-	-	-	8.3	31.8	-	-	3.7	-	6.8	-	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:00				16:00				16:15				16:00			
Vol.	0	50	1	0	0	0	0	0	7	37	0	0	4	0	9	0
Pct.	0.0	98.0	1.9	0.0	0.0	0.0	0.0	0.0	15.9	84.0	0.0	0.0	30.7	0.0	69.2	0.0
Total	51				0				44				13			
High	16:00				16:00				16:15				16:00			
Vol.	0	18	0	0	0	0	0	0	4	11	0	0	1	0	4	0
Total	18				0				15				5			
PHF	0.708				0.000				0.733				0.650			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:00				16:00				16:00				16:00			
Vol.	0	50	1	0	0	0	0	0	11	30	0	0	4	0	9	0
Pct.	0.0	98.0	1.9	0.0	0.0	0.0	0.0	0.0	26.8	73.1	0.0	0.0	30.7	0.0	69.2	0.0
Total	51				0				41				13			
High	16:00				16:00				16:15				16:00			
Vol.	0	18	0	0	0	0	0	0	4	11	0	0	1	0	4	0
Total	18				0				15				5			
PHF	0.708				0.000				0.683				0.650			

WHM Transportation Eng. Consultants, Inc
2717 Rio Grande St.
Austin, Texas 78705
Ph: (512) 473-8343 Fax: (512) 473-8237

Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSP
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Heavy Vehicles

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
16:00	0	6	0	0	0	0	0	0	0	4	0	0	0	0	1	0	11
16:15	0	2	0	0	0	0	0	0	1	2	0	0	1	0	0	0	6
16:30	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4
16:45	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
Hour	0	12	0	0	0	0	0	0	1	8	0	0	1	0	2	0	24
17:00	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
17:15	0	1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	5
17:30	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
17:45	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
Hour	0	5	0	0	0	0	0	0	2	6	0	0	0	0	0	0	13
Total	0	17	0	0	0	0	0	0	3	14	0	0	1	0	2	0	37
% Apr.	-	100.0	-	-	-	-	-	-	17.6	82.3	-	-	33.3	-	66.6	-	-
% Int.	-	45.9	-	-	-	-	-	-	8.1	37.8	-	-	2.7	-	5.4	-	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:00				16:00				16:00				16:00			
Vol.	0	12	0	0	0	0	0	0	1	8	0	0	1	0	2	0
Pct.	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	88.8	0.0	0.0	33.3	0.0	66.6	0.0
Total	12				0				9				3			
High	16:00				16:00				16:00				16:15			
Vol.	0	6	0	0	0	0	0	0	0	4	0	0	1	0	0	0
Total	6				0				4				1			
PHF	0.500				0.000				0.562				0.750			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:00				16:00				16:00				16:00			
Vol.	0	12	0	0	0	0	0	0	1	8	0	0	1	0	2	0
Pct.	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	88.8	0.0	0.0	33.3	0.0	66.6	0.0
Total	12				0				9				3			
High	16:00				16:00				16:00				16:15			
Vol.	0	6	0	0	0	0	0	0	0	4	0	0	1	0	0	0
Total	6				0				4				1			
PHF	0.500				0.000				0.562				0.750			

WHM Transportation Eng. Consultants, Inc
2717 Rio Grande St.
Austin, Texas 78705
Ph: (512) 473-8343 Fax: (512) 473-8237

Weather :C/C
Counted by:AT
Board # :
Project :Austin Community Landfill

Study Name: GILSAUSP
Site Code : 00000000
Start Date: 11/20/03
Page : 1

Autos

Start Time	Giles Ln. Southbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Westbound Left	Thru	Right	RTOR RTOR	Giles Ln. Northbound Left	Thru	Right	RTOR RTOR	Austin Community Landfill Eastbound Left	Thru	Right	RTOR RTOR	Intvl. Total
11/20/03																	
16:00	0	44	2	0	0	0	0	0	1	34	0	0	1	0	2	0	84
16:15	0	45	1	0	0	0	0	0	1	34	0	0	1	0	3	0	85
16:30	0	56	1	0	0	0	0	0	1	57	0	0	0	0	1	0	116
16:45	0	54	0	0	0	0	0	0	5	67	0	0	1	0	6	0	133
Hour	0	199	4	0	0	0	0	0	8	192	0	0	3	0	12	0	418
17:00	0	75	0	0	0	0	0	0	0	67	0	0	0	0	3	0	145
17:15	0	89	0	0	0	0	0	0	0	80	1	0	0	0	1	0	171
17:30	0	85	1	0	0	0	0	0	0	79	0	0	1	0	0	0	166
17:45	0	49	0	0	0	0	0	0	1	74	0	0	2	0	6	0	132
Hour	0	298	1	0	0	0	0	0	1	300	1	0	3	0	10	0	614
Total	0	497	5	0	0	0	0	0	9	492	1	0	6	0	22	0	1032
% Apr.	-	99.0	0.9	-	-	-	-	-	1.7	98.0	0.1	-	21.4	-	78.5	-	-
% Int.	-	48.1	0.4	-	-	-	-	-	0.8	47.6	-	-	0.5	-	2.1	-	-

Peak Hour Analysis By Individual Approach for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:45				16:00				17:00				16:00			
Vol.	0	303	1	0	0	0	0	0	1	300	1	0	3	0	12	0
Pct.	0.0	99.6	0.3	0.0	0.0	0.0	0.0	0.0	0.3	99.3	0.3	0.0	20.0	0.0	80.0	0.0
Total	304				0				302				15			
High	17:15				17:15				17:15				16:45			
Vol.	0	89	0	0	0	0	0	0	0	80	1	0	1	0	6	0
Total	89				0				81				7			
PHF	0.853				0.000				0.932				0.535			

Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/20/03 to 17:45 on 11/20/03

Time	16:45				16:45				16:45				16:45			
Vol.	0	303	1	0	0	0	0	0	5	293	1	0	2	0	10	0
Pct.	0.0	99.6	0.3	0.0	0.0	0.0	0.0	0.0	1.6	97.9	0.3	0.0	16.6	0.0	83.3	0.0
Total	304				0				299				12			
High	17:15				17:15				17:15				16:45			
Vol.	0	89	0	0	0	0	0	0	0	80	1	0	1	0	6	0
Total	89				0				81				7			
PHF	0.853				0.000				0.922				0.428			

WHM Transportation Eng. Consultants Inc.

Austin Tx. (512) 473-8343

Traffic Data Report

Location : US 290 @ Giles/Johnny Morris
: East of Giles Ln.
Direction : Westbound

Site:
Date: 11/18/03

Interval Day: Tuesday

Begin	AM - WB		PM - WB	
12:00	26	118	200	781
12:15	30		194	
12:30	28		219	
12:45	34		168	
1:00	16	78	179	704
1:15	26		177	
1:30	16		174	
1:45	20		174	
2:00	18	74	182	710
2:15	20		161	
2:30	18		173	
2:45	18		194	
3:00	17	74	176	734
3:15	13		176	
3:30	16		198	
3:45	28		184	
4:00	38	148	194	788
4:15	32		200	
4:30	44		188	
4:45	34		206	
5:00	74	510	195	838
5:15	119		214	
5:30	130		223	
5:45	187		206	
6:00	224	1,286	216	735
6:15	264		185	
6:30	386		178	
6:45	412		156	
7:00	428	1,772	140	415
7:15	507		111	
7:30	428		94	
7:45	409		70	
8:00	301	1,185	94	312
8:15	318		86	
8:30	278		68	
8:45	288		64	
9:00	254	928	58	245
9:15	232		66	
9:30	224		67	
9:45	218		54	
10:00	186	732	56	203
10:15	186		46	
10:30	176		47	
10:45	184		54	
11:00	233	860	34	129
11:15	196		35	
11:30	250		22	
11:45	181		38	
Totals	7,765		6,594	
Peak Hour	6:45		5:15	
Volume	1,775		859	
Factor	0.88		0.96	
DayTotal	14,359			

WRH Transportation Eng. Consultants Inc.
Austin Tx. (512) 473-8343

Traffic Data Report

Location : US 290 @ Giles/Johnny Morris
: West of Giles Ln.
Direction : Eastbound

Site:
Date: 11/18/03

Day: Tuesday

Interval Begin	AM - EB		PM - EB	
12:00	24	129	268	1,204
12:15	40		292	
12:30	39		316	
12:45	26		328	
1:00	41	124	262	1,054
1:15	22		284	
1:30	27		253	
1:45	34		255	
2:00	38	108	267	1,081
2:15	16		262	
2:30	34		282	
2:45	20		270	
3:00	22	88	272	1,302
3:15	26		344	
3:30	24		320	
3:45	16		366	
4:00	26	152	404	1,659
4:15	40		406	
4:30	44		414	
4:45	42		435	
5:00	45	323	440	1,754
5:15	64		492	
5:30	99		466	
5:45	115		356	
6:00	114	683	328	1,154
6:15	148		308	
6:30	196		278	
6:45	225		240	
7:00	193	863	244	769
7:15	221		187	
7:30	212		182	
7:45	237		156	
8:00	247	940	164	602
8:15	243		148	
8:30	245		142	
8:45	205		148	
9:00	210	809	137	516
9:15	233		124	
9:30	188		138	
9:45	178		117	
10:00	176	819	94	352
10:15	166		97	
10:30	218		99	
10:45	259		62	
11:00	202	888	66	216
11:15	247		56	
11:30	180		48	
11:45	259		46	
Totals	5,926		11,663	
Peak Hour	7:45		4:45	
Volume	972		1,833	
Factor	0.98		0.93	
DayTotal	17,589			

WTM Transportation Eng. Consultants Inc.
Austin Tx. (512) 473-8343
Traffic Data Report

Location : Giles Ln.
: South of Landfill Driveways
Direction : Bi-Directional

Site:
Date: 11/18/03
Day: Tuesday

Interval	NB				SB				Combined			
B	AM		PM		AM		PM		AM		PM	
12:00	3	15	56	278	0	2	40	176	3	17	96	454
12:15	4		60		1		34		5		94	
12:30	4		76		0		38		4		114	
12:45	4		86		1		64		5		150	
01:00	1	15	65	197	2	13	22	140	3	28	87	337
01:15	3		37		0		49		3		86	
01:30	4		48		7		36		11		84	
01:45	7		47		4		33		11		80	
02:00	10	28	40	213	2	3	42	174	12	31	82	387
02:15	8		61		0		44		8		105	
02:30	4		56		1		48		5		104	
02:45	6		56		0		40		6		96	
03:00	4	16	52	218	3	9	58	213	7	25	110	431
03:15	4		46		4		51		8		97	
03:30	4		56		0		56		4		112	
03:45	4		64		2		48		6		112	
04:00	8	62	46	231	2	12	52	238	10	74	98	469
04:15	18		62		2		56		20		118	
04:30	12		69		4		66		16		135	
04:45	24		54		4		64		28		118	
05:00	11	139	74	343	7	38	84	293	18	177	158	636
05:15	30		81		3		70		33		151	
05:30	36		100		13		68		49		168	
05:45	62		88		15		71		77		159	
06:00	42	238	46	195	15	124	45	196	57	362	91	391
06:15	72		60		20		67		92		127	
06:30	60		46		42		62		102		108	
06:45	64		43		47		22		111		65	
07:00	54	242	42	124	84	327	32	105	138	569	74	229
07:15	64		30		88		37		152		67	
[illegible]	74		28		97		21		171		49	
[illegible]	50		24		58		15		108		39	
08:00	78	234	21	81	32	132	14	26	110	366	35	107
08:15	57		22		26		2		83		24	
08:30	40		21		30		6		70		27	
08:45	59		17		44		4		103		21	
09:00	44	189	26	77	28	148	6	37	72	337	32	114
09:15	40		20		38		9		78		29	
09:30	62		14		48		12		110		26	
09:45	43		17		34		10		77		27	
10:00	38	170	10	59	28	111	9	38	66	281	19	97
10:15	45		21		26		14		71		35	
10:30	47		14		31		7		78		21	
10:45	40		14		26		8		66		22	
11:00	43	173	12	37	32	225	12	40	75	398	24	77
11:15	42		8		47		12		89		20	
11:30	40		10		70		8		110		18	
11:45	48		7		76		8		124		15	
Totals	1,521		2,053		1,144		1,676		2,665		3,729	
Split%	57.1		55.1		42.9		44.9					
Day Totals		3,574				2,820				6,394		
Day Splits		55.9				44.1						
Peak Hour	07:15		05:00		07:00		05:00		06:45		05:00	
Volume	266		343		327		293		572		636	
Factor	0.85		0.86		0.84		0.87		0.84		0.95	

WRM Transportation Eng. Consultants Inc.
Austin Tx. (512) 473-8343

Traffic Data Report

Location : Johnny Morris Rd. @ US 290
:
Direction : Northbound

Site:
Date: 11/20/03

Interval
Day: Thursday

Begin	AM - NB		PM - NB	
12:00	2	53	41	142
12:15	24		31	
12:30	10		30	
12:45	17		40	
1:00	10	36	32	141
1:15	12		30	
1:30	10		42	
1:45	4		37	
2:00	10	32	40	144
2:15	10		30	
2:30	8		26	
2:45	4		48	
3:00	8	30	50	190
3:15	8		36	
3:30	6		48	
3:45	8		56	
4:00	17	67	26	230
4:15	8		54	
4:30	28		88	
4:45	14		62	
5:00	16	161	78	321
5:15	30		78	
5:30	40		89	
5:45	75		76	
6:00	48	209	69	192
6:15	45		52	
6:30	60		41	
6:45	56		30	
7:00	38	210	32	112
7:15	60		24	
7:30	58		30	
7:45	54		26	
8:00	45	176	28	98
8:15	40		22	
8:30	51		22	
8:45	40		26	
9:00	29	126	32	106
9:15	34		37	
9:30	34		20	
9:45	29		17	
10:00	24	110	20	82
10:15	30		22	
10:30	26		19	
10:45	30		21	
11:00	35	149	12	50
11:15	40		14	
11:30	34		16	
11:45	40		8	
Totals	1,359		1,808	
Peak Hour	5:45		5:00	
Volume	228		321	
Factor	0.76		0.9	
DayTotal	3,167			

WHM Transportation Eng. Consultants Inc.
Austin Tx. (512) 473-8343

Traffic Data Report

Location : Jonny Morris Rd. @ US 290
:
Direction : Southbound

Site:
Date: 11/18/03
Day: Tuesday

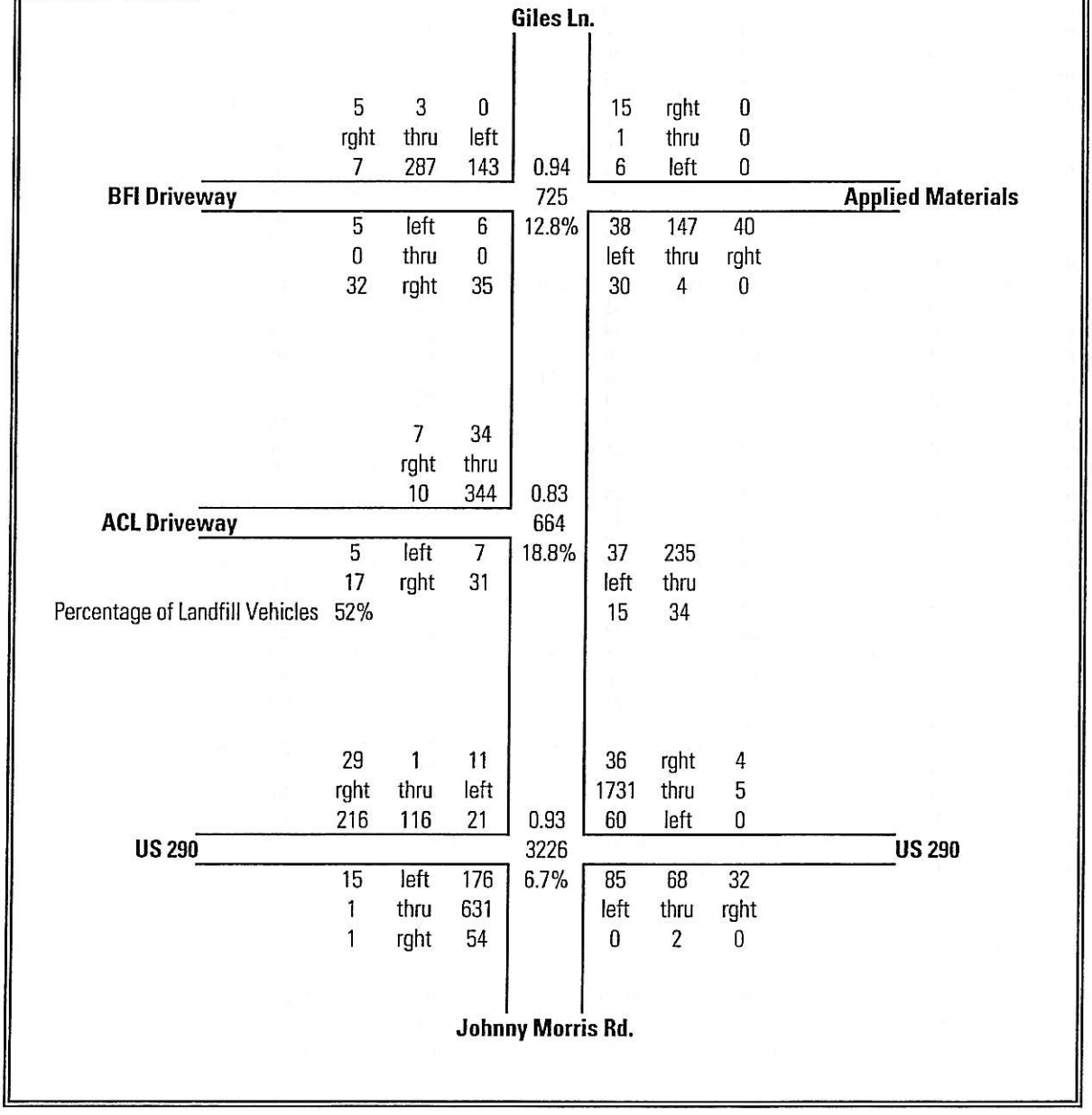
Int.	SB				SB				Combined				
B.	AM		PM		AM		PM		AM		PM		
12:00	0	0	0	0	3	32	44	155	3	32	44	155	
12:15	0		0		10		31		10		31		
12:30	0		0		11		46		11		46		
12:45	0		0		8		34		8		34		
01:00	0	0	0	0	24	73	42	137	24	73	42	137	
01:15	0		0		14		32		14		32		
01:30	0		0		16		27		16		27		
01:45	0		0		19		36		19		36		
02:00	0	0	0	0	11	34	44	172	11	34	44	172	
02:15	0		0		4		40		4		40		
02:30	0		0		10		46		10		46		
02:45	0		0		9		42		9		42		
03:00	0	0	0	0	20	52	56	214	20	52	56	214	
03:15	0		0		14		58		14		58		
03:30	0		0		6		56		6		56		
03:45	0		0		12		44		12		44		
04:00	0	0	0	0	18	57	42	212	18	57	42	212	
04:15	0		0		13		48		13		48		
04:30	0		0		12		50		12		50		
04:45	0		0		14		72		14		72		
05:00	0	0	0	0	30	171	65	221	30	171	65	221	
05:15	0		0		30		62		30		62		
05:30	0		0		60		48		60		48		
05:45	0		0		51		46		51		46		
06:00	0	0	0	0	34	193	41	159	34	193	41	159	
06:15	0		0		36		42		36		42		
06:30	0		0		56		36		56		36		
06:45	0		0		67		40		67		40		
07:00	0	0	0	0	59	271	27	111	59	271	27	111	
07:15	0		0		82		24		82		24		
	0		0		58		34		58		34		
	0		0		72		26		72		26		
08:00	0	0	0	0	40	147	18	95	40	147	18	95	
08:15	0		0		37		28		37		28		
08:30	0		0		36		20		36		20		
08:45	0		0		34		29		34		29		
09:00	0	0	0	0	34	130	27	85	34	130	27	85	
09:15	0		0		30		16		30		16		
09:30	0		0		32		18		32		18		
09:45	0		0		34		24		34		24		
10:00	0	0	0	0	23	121	18	78	23	121	18	78	
10:15	0		0		14		16		14		16		
10:30	0		0		38		22		38		22		
10:45	0		0		46		22		46		22		
11:00	0	0	0	0	36	132	24	66	36	132	24	66	
11:15	0		0		36		16		36		16		
11:30	0		0		22		10		22		10		
11:45	0		0		38		16		38		16		
Totals	0		0		1,413		1,705		1,413		1,705		
Split%	0.0		0.0		100.0		100.0						
Day Totals		0				3,118				3,118			
Day Splits		0.0				100.0							
Peak Hour	*		*		07:00		04:30		07:00		04:30		
Volume	*		*		271		249		271		249		
Factor	*		*		0.83		0.86		0.83		0.86		

AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

AM PEAK

EXISTING TRAFFIC

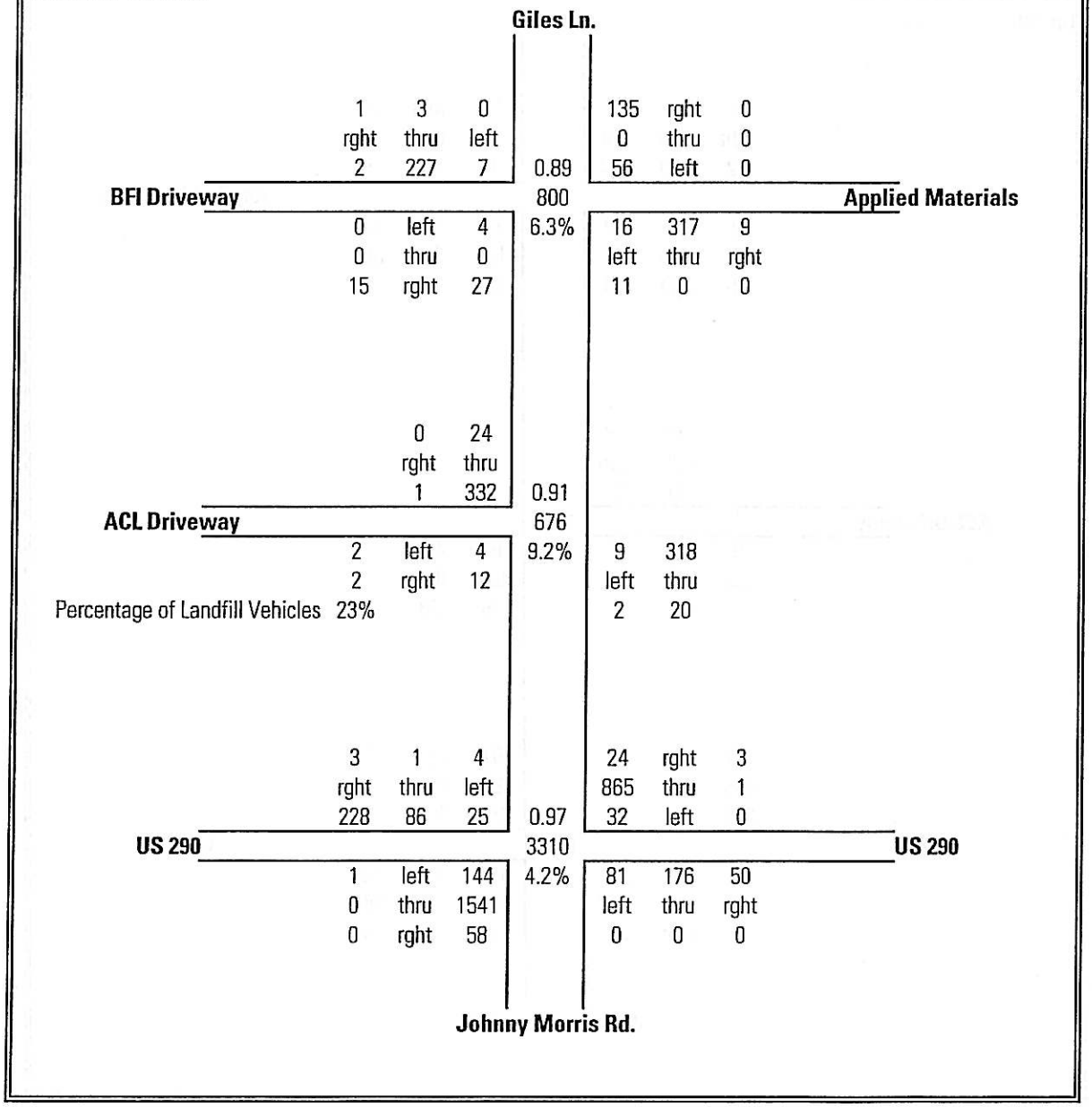


AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

PM PEAK

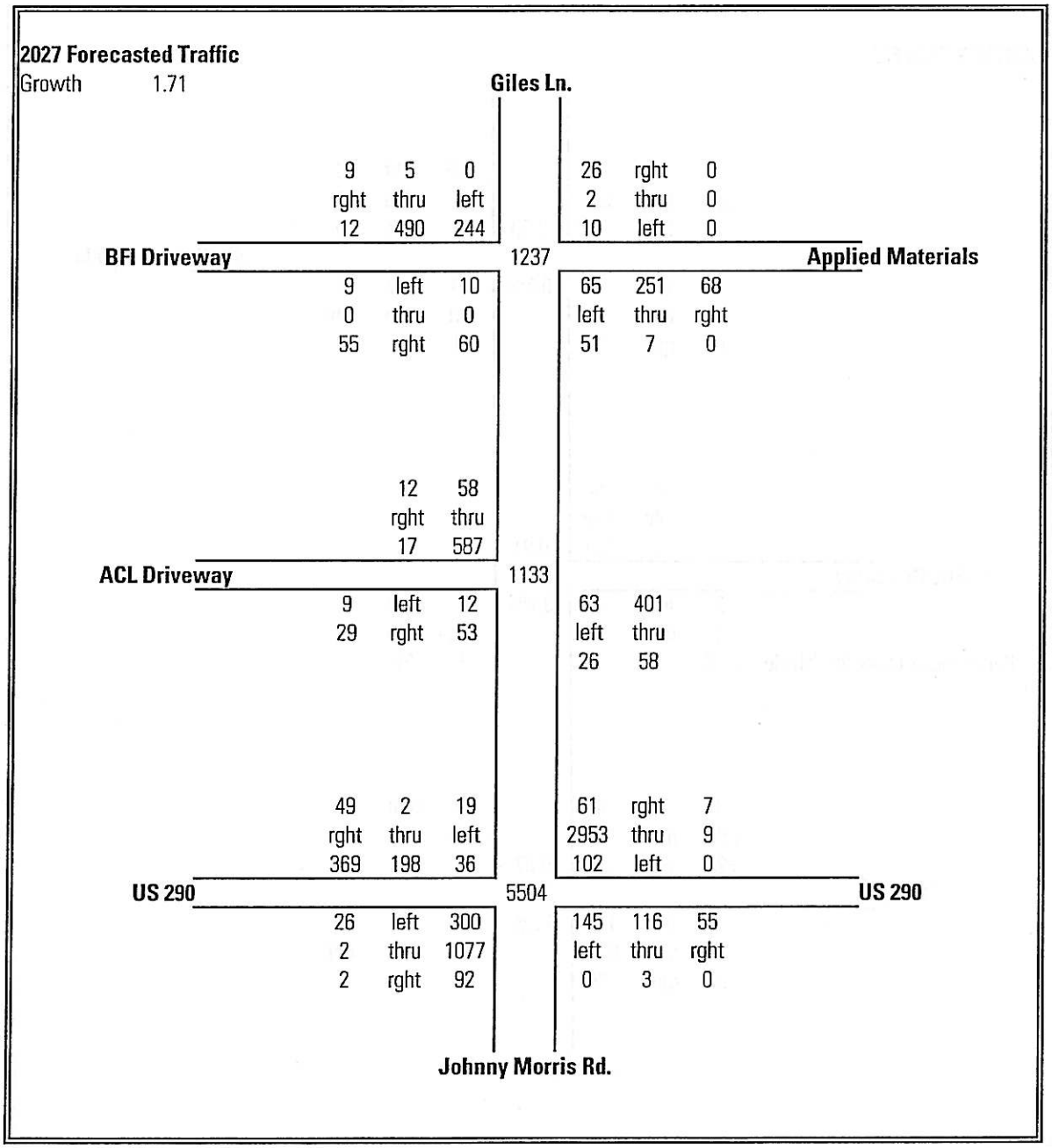
EXISTING TRAFFIC



AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

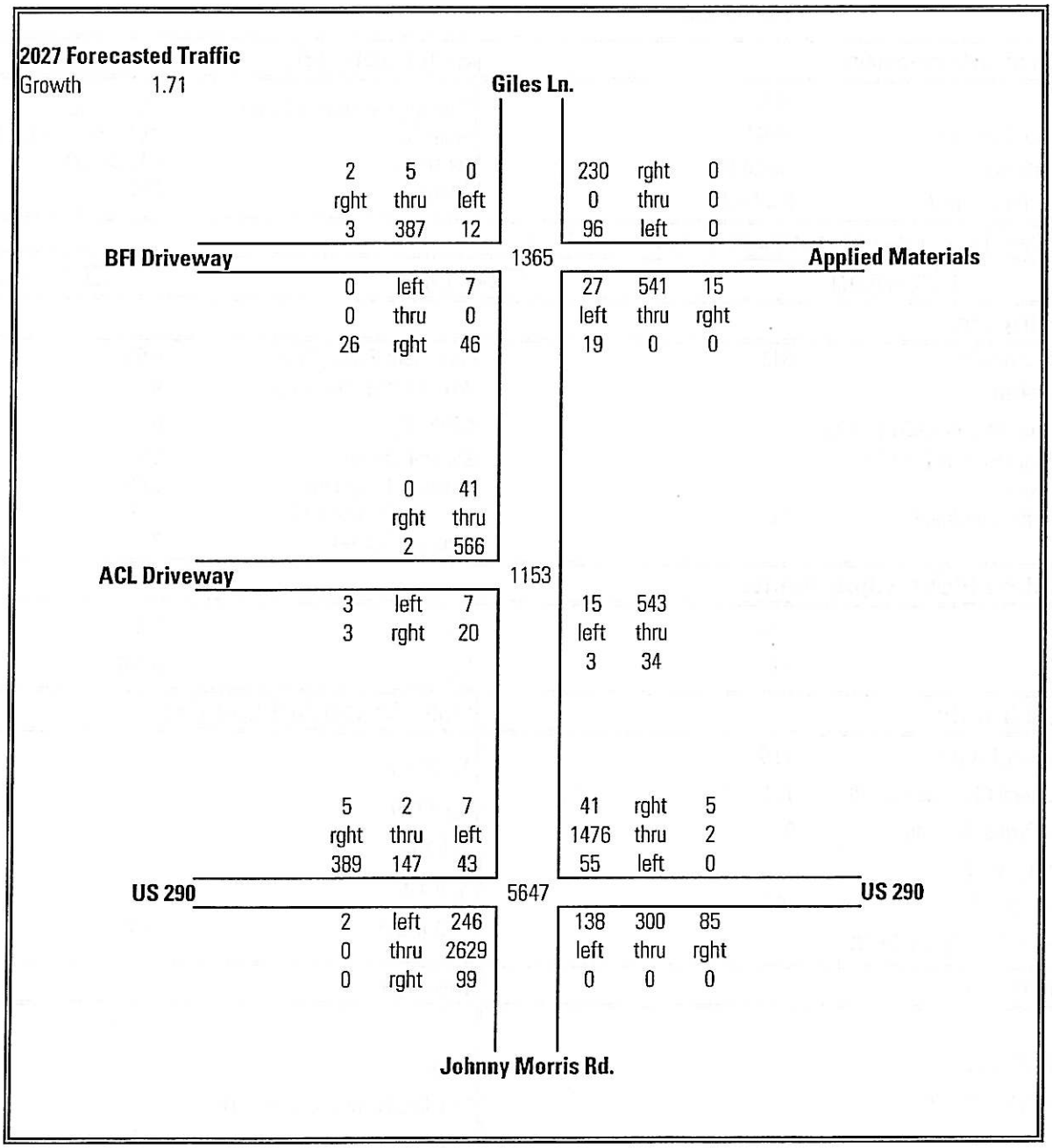
AM PEAK



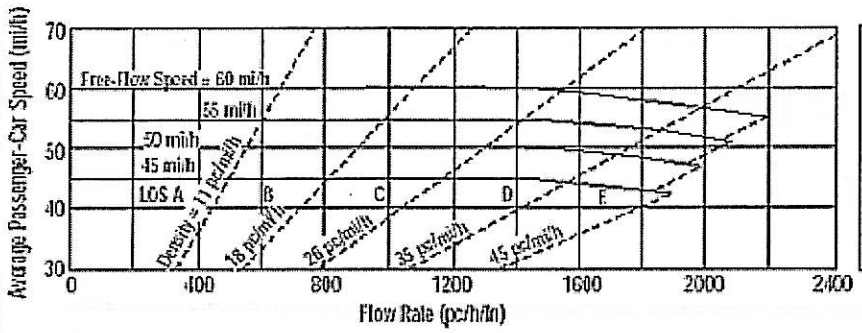
AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

PM PEAK



MULTILANE HIGHWAYS WORKSHEET(Direction 1)



Application	Input	C
Operational (LOS)	FFS, N, v_p	L
Design (N)	FFS, LOS, v_p	N
Design (v_p)	FFS, LOS, N	v_p
Planning (LOS)	FFS, N, AADT	L
Planning (N)	FFS, LOS, AADT	N
Planning (v_p)	FFS, LOS, N	v_p

General Information

Analyst	TAG
Agency or Company	WHM
Date Performed	2/5/2004
Analysis Time Period	PM Peak

Site Information

Highway/Direction to Travel	Giles Lane
From/To	ACL Driveway/US 290
Jurisdiction	GLACL290
Analysis Year	2003

Project Description Austin Community Landfill Transportation Study

☑ Oper.(LOS) ☐ Des. (N) ☐ Plan. (vp)

Flow Inputs

Volume, V (veh/h)	343	Peak-Hour Factor, PHF	0.91
AADT(veh/h)		%Trucks and Buses, P_T	9
Peak-Hour Prop of AADT (veh/d)		%RVs, P_R	0
Peak-Hour Direction Prop, D		General Terrain:	Level
DDHV (veh/h)		Grade Length (mi)	0.00
Driver Type Adjustment	1.00	Up/Down %	0.00
		Number of Lanes	2

Calculate Flow Adjustments

f_p	1.00	E_R	1.2
E_T	1.5	f_{HV}	0.957

Speed Inputs

Lane Width, LW (ft)	12.0
Total Lateral Clearence, LC (ft)	12.0
Access Points, A (A/mi)	0
Median Type, M	
FFS (measured)	50.0
Base Free-Flow Speed, BFFS	

Calc Speed Adj and FFS

f_{LW} (mi/h)	
f_{LC} (mi/h)	
f_A (mi/h)	
f_M (mi/h)	
FFS (mi/h)	50.0

Operations

Operational (LOS)

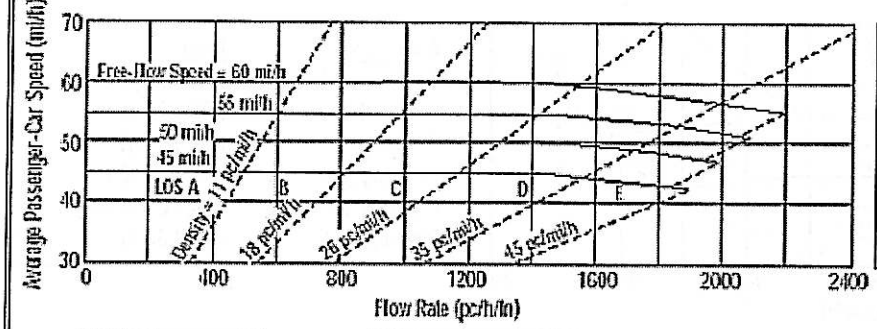
Flow Rate, v_p (pc/h/ln)	196
Speed, S (mi/h)	50.0
D (pc/mi/ln)	3.9
LOS	A

Design

Design (N)

Required Number of Lanes, N	
Flow Rate, v_p (pc/h)	
Max Service Flow Rate (pc/h/ln)	
Design LOS	

MULTILANE HIGHWAYS WORKSHEET(Direction 1)



Application	Input	C
Operational (LOS)	FFS, N, v_p	L
Design (N)	FFS, LOS, v_p	N
Design (v_p)	FFS, LOS, N	v_p
Planning (LOS)	FFS, N, AADT	L
Planning (N)	FFS, LOS, AADT	N
Planning (v_p)	FFS, LOS, N	v_p

General Information

Analyst	TAG
Agency or Company	WHM
Date Performed	2/5/2004
Analysis Time Period	PM Peak

Site Information

Highway/Direction to Travel	Johnny Morris Road
From/To	South of US 290
Jurisdiction	JMACL290
Analysis Year	2003

Project Description Austin Community Landfill Transportation Study

☑ Oper.(LOS) ☐ Des. (N) ☐ Plan. (vp)

Flow Inputs

Volume, V (veh/h)	321	Peak-Hour Factor, PHF	0.97
AADT(veh/h)		%Trucks and Buses, P_T	4
Peak-Hour Prop of AADT (veh/d)		%RVs, P_R	0
Peak-Hour Direction Prop, D		General Terrain:	Level
DDHV (veh/h)		Grade Length (mi)	0.00
Driver Type Adjustment	1.00	Up/Down %	0.00
		Number of Lanes	2

Calculate Flow Adjustments

f_p	1.00	E_R	1.2
E_T	1.5	f_{HV}	0.980

Speed Inputs

Lane Width, LW (ft)	12.0
Total Lateral Clearence, LC (ft)	12.0
Access Points, A (A/mi)	0
Median Type, M	
FFS (measured)	50.0
Base Free-Flow Speed, BFFS	

Calc Speed Adj and FFS

f_{LW} (mi/h)	
f_{LC} (mi/h)	
f_A (mi/h)	
f_M (mi/h)	
FFS (mi/h)	50.0

Operations

Operational (LOS)

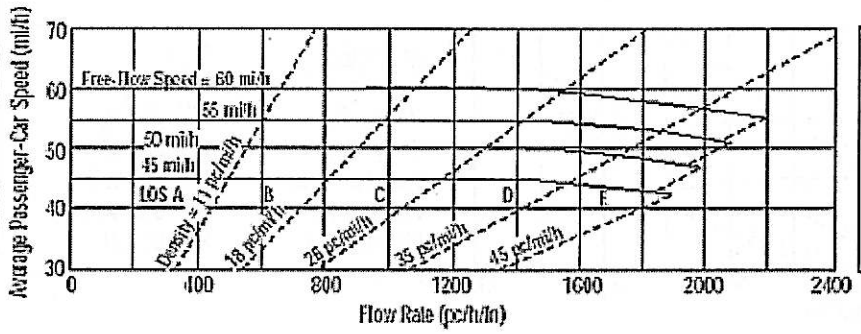
Flow Rate, v_p (pc/h/ln)	168
Speed, S (mi/h)	50.0
D (pc/mi/ln)	3.4
LOS	A

Design

Design (N)

Required Number of Lanes, N	
Flow Rate, v_p (pc/h)	
Max Service Flow Rate (pc/h/ln)	
Design LOS	

MULTILANE HIGHWAYS WORKSHEET(Direction 1)



Application	Input	C
Operational (LOS)	FFS, N, v_p	L
Design (N)	FFS, LOS, v_p	N
Design (v_p)	FFS, LOS, N	v_p
Planning (LOS)	FFS, N, AADT	L
Planning (N)	FFS, LOS, AADT	N
Planning (v_p)	FFS, LOS, N	v_p

General Information

Analyst	TAG
Agency or Company	WHM
Date Performed	2/5/2004
Analysis Time Period	PM Peak

Site Information

Highway/Direction to Travel	Giles Lane
From/To	ACL Driveway/US 290
Jurisdiction	GLACL290
Analysis Year	2027

Project Description Austin Community Landfill Transportation Study

☑ Oper.(LOS) ☐ Des. (N) ☐ Plan. (vp)

Flow Inputs

Volume, V (veh/h)	587	Peak-Hour Factor, PHF	0.91
AADT(veh/h)		%Trucks and Buses, P_T	9
Peak-Hour Prop of AADT (veh/d)		%RVs, P_R	0
Peak-Hour Direction Prop, D		General Terrain:	Level
DDHV (veh/h)		Grade Length (mi)	0.00
Driver Type Adjustment	1.00	Up/Down %	0.00
		Number of Lanes	2

Calculate Flow Adjustments

f_p	1.00	E_R	1.2
E_T	1.5	f_{HV}	0.957

Speed Inputs

Lane Width, LW (ft)	12.0
Total Lateral Clearence, LC (ft)	12.0
Access Points, A (A/mi)	0
Median Type, M	
FFS (measured)	50.0
Base Free-Flow Speed, BFFS	

Calc Speed Adj and FFS

f_{LW} (mi/h)	
f_{LC} (mi/h)	
f_A (mi/h)	
f_M (mi/h)	
FFS (mi/h)	50.0

Operations

Operational (LOS)

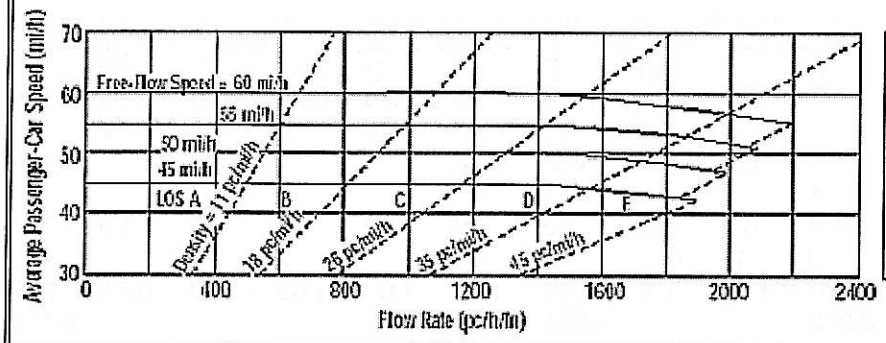
Flow Rate, v_p (pc/h/ln)	337
Speed, S (mi/h)	50.0
D (pc/mi/ln)	6.7
LOS	A

Design

Design (N)

Required Number of Lanes, N	
Flow Rate, v_p (pc/h)	
Max Service Flow Rate (pc/h/ln)	
Design LOS	

MULTILANE HIGHWAYS WORKSHEET(Direction 1)



Application	Input	O
Operational (LOS)	FFS, N, v_p	L
Design (N)	FFS, LOS, v_p	N
Design (v_p)	FFS, LOS, N	v_l
Planning (LOS)	FFS, N, AADT	L
Planning (N)	FFS, LOS, AADT	N
Planning (v_p)	FFS, LOS, N	v_l

General Information

Analyst	TAG
Agency or Company	WHM
Date Performed	2/5/2004
Analysis Time Period	PM Peak

Site Information

Highway/Direction to Travel	Johnny Morris Road
From/To	South of US 290
Jurisdiction	JMACL290
Analysis Year	2027

Project Description Austin Community Landfill Transportation Study

☑ Oper.(LOS) ☐ Des. (N) ☐ Plan. (vp)

Flow Inputs

Volume, V (veh/h)	549	Peak-Hour Factor, PHF	0.97
AADT(veh/h)		%Trucks and Buses, P_T	4
Peak-Hour Prop of AADT (veh/d)		%RVs, P_R	0
Peak-Hour Direction Prop, D		General Terrain:	Level
DDHV (veh/h)		Grade Length (mi)	0.00
Driver Type Adjustment	1.00	Up/Down %	0.00
		Number of Lanes	2

Calculate Flow Adjustments

f_p	1.00	E_R	1.2
E_T	1.5	f_{HV}	0.980

Speed Inputs

Lane Width, LW (ft)	12.0
Total Lateral Clearence, LC (ft)	12.0
Access Points, A (A/mi)	0
Median Type, M	
FFS (measured)	50.0
Base Free-Flow Speed, BFFS	

Calc Speed Adj and FFS

f_{LW} (mi/h)	
f_{LC} (mi/h)	
f_A (mi/h)	
f_M (mi/h)	
FFS (mi/h)	50.0

Operations

Operational (LOS)

Flow Rate, v_p (pc/h/ln)	288
Speed, S (mi/h)	50.0
D (pc/mi/ln)	5.8
LOS	A

Design

Design (N)

Required Number of Lanes, N	
Flow Rate, v_p (pc/h)	
Max Service Flow Rate (pc/h/ln)	
Design LOS	

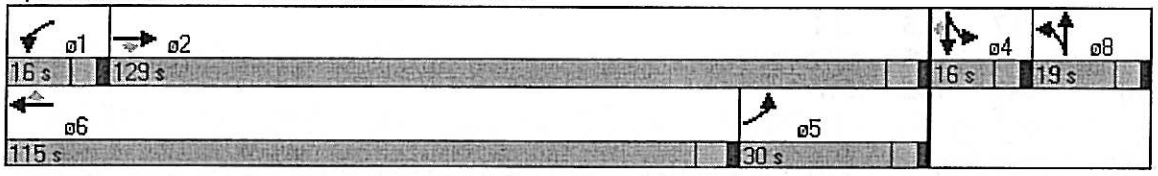
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.952				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			58			22		10				220
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	176	631	54	60	1731	36	85	68	32	21	116	216
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Adj. Flow (vph)	189	678	58	65	1861	39	91	73	34	23	125	232
Lane Group Flow (vph)	189	678	58	65	1861	39	91	107	0	23	125	232
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases			2			6						4
Minimum Split (s)	11.0	23.0	23.0	11.0	23.0	23.0	16.0	16.0		16.0	16.0	16.0
Total Split (s)	30.0	129.0	129.0	16.0	115.0	115.0	19.0	19.0	0.0	16.0	16.0	16.0
Total Split (%)	17%	72%	72%	9%	64%	64%	11%	11%	0%	9%	9%	9%
Maximum Green (s)	24.0	122.0	122.0	10.0	108.0	108.0	13.0	13.0		10.0	10.0	10.0
Yellow Time (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lead/Lag	Lag	Lag	Lag	Lead	Lead	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Act Effct Green (s)	25.9	124.9	124.9	12.1	111.1	111.1	14.9	14.9		12.1	12.1	12.1
Actuated g/C Ratio	0.14	0.69	0.69	0.07	0.62	0.62	0.08	0.08		0.07	0.07	0.07
v/c Ratio	0.77	0.29	0.06	0.58	0.89	0.04	0.65	0.71		0.21	0.56	0.73
Uniform Delay, d1	74.2	10.5	0.0	81.5	29.5	5.8	79.9	72.8		79.5	81.4	4.1
Delay	80.1	10.6	1.9	82.3	30.7	7.2	82.8	79.5		80.1	81.8	11.9
LOS	F	B	A	F	C	A	F	E		F	F	B
Approach Delay		24.3			31.9			81.0			39.0	
Approach LOS		C			C			F			D	
Queue Length 50th (ft)	219	152	0	76	955	8	106	114		26	76	14
Queue Length 95th (ft)	#340	182	0	135	1077	25	#183	#209		60	116	113
Internal Link Dist (ft)		420			420			420			1920	
50th Up Block Time (%)					22%							
95th Up Block Time (%)					24%							
Turn Bay Length (ft)	500		260	140		238				164		220

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
50th Bay Block Time %					33%							
95th Bay Block Time %					34%							
Queuing Penalty (veh)					21							

Intersection Summary	
Area Type:	Other
Cycle Length: 180	
Actuated Cycle Length: 180	
Offset: 0 (0%), Referenced to phase 2:EBT, Start of Green	
Natural Cycle: 120	
Control Type: Pretimed	
Maximum v/c Ratio: 0.89	
Intersection Signal Delay: 33.5	Intersection LOS: C
Intersection Capacity Utilization 84.5%	ICU Level of Service D

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 3: US 290 & Giles Lane

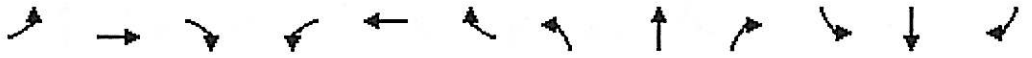


Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	7	31	37	235	344	10
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83
Hourly flow rate (veh/h)	8	37	45	283	414	12
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh)						
vC, conflicting volume	651	213	427			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	7.2	7.3	4.5			
tC, 2 stage (s)						
tF (s)	3.7	3.5	2.4			
p0 queue free %	98	95	96			
cM capacity (veh/h)	349	742	1017			

Direction, Lane #	EB 1	EB 2	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	8	37	45	142	142	276	150
Volume Left	8	0	45	0	0	0	0
Volume Right	0	37	0	0	0	0	12
cSH	349	742	1017	1700	1700	1700	1700
Volume to Capacity	0.02	0.05	0.04	0.08	0.08	0.16	0.09
Queue Length (ft)	2	4	3	0	0	0	0
Control Delay (s)	15.6	10.1	8.7	0.0	0.0	0.0	0.0
Lane LOS	C	B	A				
Approach Delay (s)	11.1		1.2			0.0	
Approach LOS	B						

Intersection Summary			
Average Delay	1.1		
Intersection Capacity Utilization	21.8%	ICU Level of Service	A

INTERSECTION LOS A

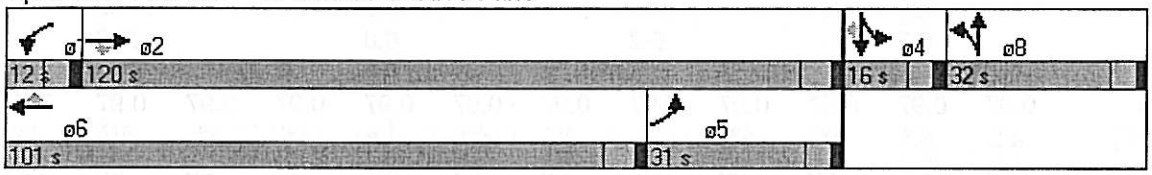


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.967				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1736	3471	1449	1736	3471	1449	1736	1767	0	1736	3471	1708
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1736	3471	1449	1736	3471	1449	1736	1767	0	1736	3471	1708
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			46			24		7				235
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	144	1541	58	32	865	24	81	176	50	25	86	228
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Adj. Flow (vph)	148	1589	60	33	892	25	84	181	52	26	89	235
Lane Group Flow (vph)	148	1589	60	33	892	25	84	233	0	26	89	235
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases			2			6						4
Minimum Split (s)	11.0	23.0	23.0	11.0	23.0	23.0	22.0	22.0		16.0	16.0	16.0
Total Split (s)	31.0	120.0	120.0	12.0	101.0	101.0	32.0	32.0	0.0	16.0	16.0	16.0
Total Split (%)	17%	67%	67%	7%	56%	56%	18%	18%	0%	9%	9%	9%
Maximum Green (s)	25.0	113.0	113.0	6.0	94.0	94.0	26.0	26.0		10.0	10.0	10.0
Yellow Time (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lead/Lag	Lag	Lag	Lag	Lead	Lead	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Act Effct Green (s)	27.0	115.9	115.9	7.9	97.0	97.0	28.1	28.1		12.1	12.1	12.1
Actuated g/C Ratio	0.15	0.64	0.64	0.04	0.54	0.54	0.16	0.16		0.07	0.07	0.07
v/c Ratio	0.57	0.71	0.06	0.43	0.48	0.03	0.31	0.83		0.22	0.39	0.71
Uniform Delay, d1	71.1	21.0	2.7	83.8	25.8	0.8	67.4	71.4		79.6	80.4	0.0
Delay	71.8	21.3	4.1	84.5	26.0	6.6	68.1	80.4		80.2	80.8	8.7
LOS	E	C	A	F	C	A	E	F		F	F	A
Approach Delay		24.9			27.5			77.2			32.4	
Approach LOS		C			C			E			C	
Queue Length 50th (ft)	165	621	0	39	338	1	90	264		30	54	0
Queue Length 95th (ft)	248	702	24	82	396	18	150	#411		68	87	96
Internal Link Dist (ft)		420			420			420			1920	
50th Up Block Time (%)		13%										
95th Up Block Time (%)		15%										
Turn Bay Length (ft)	500		260	140		238				164		220

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
50th Bay Block Time %		8%			27%							
95th Bay Block Time %		11%			30%							
Queuing Penalty (veh)		14			9							

Intersection Summary	
Area Type:	Other
Cycle Length: 180	
Actuated Cycle Length: 180	
Offset: 0 (0%), Referenced to phase 2:EBT, Start of Green	
Natural Cycle: 90	
Control Type: Pretimed	
Maximum v/c Ratio: 0.83	
Intersection Signal Delay: 31.2	Intersection LOS: C
Intersection Capacity Utilization 69.9%	ICU Level of Service B
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	

Splits and Phases: 3: US 290 & Giles Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	4	12	9	318	332	1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (veh/h)	4	13	10	349	365	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh)						
vC, conflicting volume	560	183	366			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	7.0	7.1	4.3			
tC, 2 stage (s)						
tF (s)	3.6	3.4	2.3			
p0 queue free %	99	98	99			
cM capacity (veh/h)	438	807	1140			

Direction, Lane #	EB 1	EB 2	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	4	13	10	175	175	243	123
Volume Left	4	0	10	0	0	0	0
Volume Right	0	13	0	0	0	0	1
cSH	438	807	1140	1700	1700	1700	1700
Volume to Capacity	0.01	0.02	0.01	0.10	0.10	0.14	0.07
Queue Length (ft)	1	1	1	0	0	0	0
Control Delay (s)	13.3	9.5	8.2	0.0	0.0	0.0	0.0
Lane LOS	B	A	A				
Approach Delay (s)	10.5		0.2			0.0	
Approach LOS	B						

Intersection Summary			
Average Delay	0.4		
Intersection Capacity Utilization	20.1%	ICU Level of Service	A

INTERSECTION LOS A

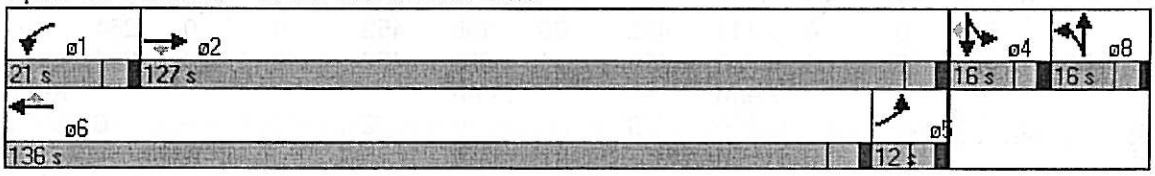
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.952				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			99			31		10				45
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	300	1077	92	102	2953	61	145	116	55	36	198	369
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Adj. Flow (vph)	323	1158	99	110	3175	66	156	125	59	39	213	397
Lane Group Flow (vph)	323	1158	99	110	3175	66	156	184	0	39	213	397
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases			2			6						4
Minimum Split (s)	11.0	23.0	23.0	11.0	23.0	23.0	16.0	16.0		16.0	16.0	16.0
Total Split (s)	12.0	127.0	127.0	21.0	136.0	136.0	16.0	16.0	0.0	16.0	16.0	16.0
Total Split (%)	7%	71%	71%	12%	76%	76%	9%	9%	0%	9%	9%	9%
Maximum Green (s)	6.0	120.0	120.0	15.0	129.0	129.0	10.0	10.0		10.0	10.0	10.0
Yellow Time (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lead/Lag	Lag	Lag	Lag	Lead	Lead	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Act Effct Green (s)	7.9	122.9	122.9	16.9	131.9	131.9	12.1	12.1		12.1	12.1	12.1
Actuated g/C Ratio	0.04	0.68	0.68	0.09	0.73	0.73	0.07	0.07		0.07	0.07	0.07
v/c Ratio	4.31	0.50	0.10	0.69	1.28	0.06	1.39	1.51		0.35	0.95	2.59
Uniform Delay, d1	86.0	13.7	0.0	78.9	24.0	3.5	84.0	77.1		80.2	83.7	59.3
Delay	427.7	13.9	1.5	83.6	143.4	3.8	212.1	229.5		81.0	113.2	352.9
LOS	F	B	A	F	F	A	F	F		F	F	F
Approach Delay		97.7			138.7			221.5			257.9	
Approach LOS		F			F			F			F	
Queue Length 50th (ft)	~698	328	0	128	~2493	10	~244	~291		45	134	~738
Queue Length 95th (ft)	#911	377	0	#216	#2565	25	#408	#469		91	#225	#968
Internal Link Dist (ft)		420			420			420			1920	
50th Up Block Time (%)	42%				29%							
95th Up Block Time (%)	56%				30%			14%				
Turn Bay Length (ft)	500		260	140		238				164		220

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
50th Bay Block Time %	31%				28%							78%
95th Bay Block Time %	47%			34%	28%						26%	86%
Queuing Penalty (veh)	227			268	30						5	87

Intersection Summary	
Area Type:	Other
Cycle Length: 180	
Actuated Cycle Length: 180	
Offset: 0 (0%), Referenced to phase 2:EBT, Start of Green	
Natural Cycle: 130	
Control Type: Pretimed	
Maximum v/c Ratio: 4.31	
Intersection Signal Delay: 145.6	Intersection LOS: F
Intersection Capacity Utilization 133.5%	ICU Level of Service H

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 3: US 290 & Giles Lane



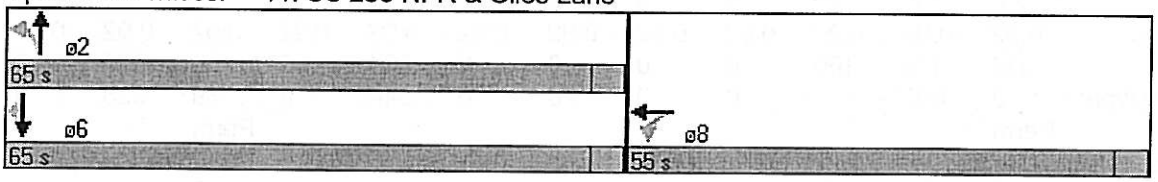
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		0	0		200
Storage Lanes	0		0	0		0	1		0	0		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95	1.00	1.00	0.95	1.00
Frt					0.985							0.850
Flt Protected					0.992		0.950					
Satd. Flow (prot)	0	0	0	0	3458	0	1770	3539	0	0	3539	1583
Flt Permitted					0.992		0.587					
Satd. Flow (perm)	0	0	0	0	3458	0	1093	3539	0	0	3539	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					12							249
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		45			45			50			50	
Link Distance (ft)		500			500			400			1800	
Travel Time (s)		7.6			7.6			5.5			24.5	
Volume (vph)	0	0	0	102	443	61	145	416	0	0	234	369
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	111	482	66	158	452	0	0	254	401
Lane Group Flow (vph)	0	0	0	0	659	0	158	452	0	0	254	401
Turn Type				Perm			Perm					Perm
Protected Phases					8			2			6	
Permitted Phases				8			2					6
Minimum Split (s)				20.0	20.0		20.0	20.0			20.0	20.0
Total Split (s)	0.0	0.0	0.0	55.0	55.0	0.0	65.0	65.0	0.0	0.0	65.0	65.0
Total Split (%)	0%	0%	0%	46%	46%	0%	54%	54%	0%	0%	54%	54%
Maximum Green (s)				51.0	51.0		61.0	61.0			61.0	61.0
Yellow Time (s)				3.5	3.5		3.5	3.5			3.5	3.5
All-Red Time (s)				0.5	0.5		0.5	0.5			0.5	0.5
Lead/Lag												
Lead-Lag Optimize?												
Walk Time (s)				5.0	5.0		5.0	5.0			5.0	5.0
Flash Dont Walk (s)				11.0	11.0		11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0		0	0			0	0
Act Effct Green (s)					51.0		61.0	61.0			61.0	61.0
Actuated g/C Ratio					0.43		0.51	0.51			0.51	0.51
v/c Ratio					0.45		0.28	0.25			0.14	0.43
Uniform Delay, d1					24.0		16.9	16.6			15.6	6.2
Delay					24.2		24.2	23.0			15.7	6.6
LOS					C		C	C			B	A
Approach Delay					24.2			23.3			10.1	
Approach LOS					C			C			B	
Queue Length 50th (ft)					183		73	109			53	59
Queue Length 95th (ft)					235		166	140			77	128
Internal Link Dist (ft)		420			420			320			1720	
50th Up Block Time (%)												
95th Up Block Time (%)												

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)												200
50th Bay Block Time %												
95th Bay Block Time %												
Queuing Penalty (veh)												

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green
Natural Cycle: 40
Control Type: Pretimed
Maximum v/c Ratio: 0.45
Intersection Signal Delay: 19.1 — Intersection LOS: B
Intersection Capacity Utilization 62.2% — ICU Level of Service B

Splits and Phases: 11: US 290 NFR & Giles Lane



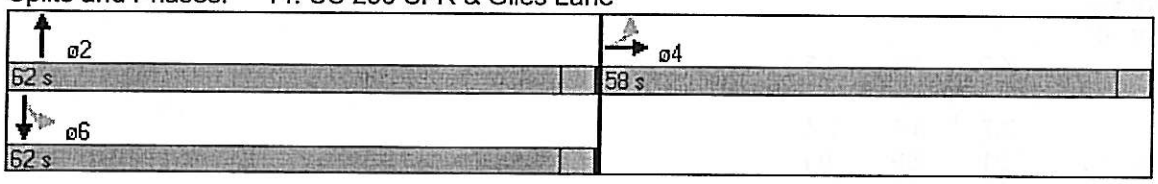
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Frt		0.975						0.974				
Flt Protected		0.974								0.950		
Satd. Flow (prot)	0	3361	0	0	0	0	0	3447	0	1770	3539	0
Flt Permitted		0.974								0.518		
Satd. Flow (perm)	0	3361	0	0	0	0	0	3447	0	965	3539	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		25						29				
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		45			45			50			50	
Link Distance (ft)		500			500			300			400	
Travel Time (s)		7.6			7.6			4.1			5.5	
Volume (vph)	300	162	92	0	0	0	0	261	55	36	300	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	326	176	100	0	0	0	0	284	60	39	326	0
Lane Group Flow (vph)	0	602	0	0	0	0	0	344	0	39	326	0
Turn Type	Perm									Perm		
Protected Phases		4						2			6	
Permitted Phases	4									6		
Minimum Split (s)	20.0	20.0						20.0		20.0	20.0	
Total Split (s)	58.0	58.0	0.0	0.0	0.0	0.0	0.0	62.0	0.0	62.0	62.0	0.0
Total Split (%)	48%	48%	0%	0%	0%	0%	0%	52%	0%	52%	52%	0%
Maximum Green (s)	54.0	54.0						58.0		58.0	58.0	
Yellow Time (s)	3.5	3.5						3.5		3.5	3.5	
All-Red Time (s)	0.5	0.5						0.5		0.5	0.5	
Lead/Lag												
Lead-Lag Optimize?												
Walk Time (s)	5.0	5.0						5.0		5.0	5.0	
Flash Dont Walk (s)	11.0	11.0						11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0						0		0	0	
Act Effct Green (s)		54.0						58.0		58.0	58.0	
Actuated g/C Ratio		0.45						0.48		0.48	0.48	
v/c Ratio		0.39						0.20		0.08	0.19	
Uniform Delay, d1		21.0						16.1		16.7	17.6	
Delay		21.3						16.3		13.3	13.8	
LOS		C						B		B	B	
Approach Delay		21.3						16.3			13.7	
Approach LOS		C						B			B	
Queue Length 50th (ft)		153						67		11	48	
Queue Length 95th (ft)		200						96		24	66	
Internal Link Dist (ft)		420			420			220			320	
50th Up Block Time (%)												
95th Up Block Time (%)												
Turn Bay Length (ft)												
50th Bay Block Time %												

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
95th Bay Block Time %												
Queuing Penalty (veh)												

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green
Natural Cycle: 40
Control Type: Pretimed
Maximum v/c Ratio: 0.39
Intersection Signal Delay: 17.8 Intersection LOS: B
Intersection Capacity Utilization 34.5% ICU Level of Service A

Splits and Phases: 14: US 290 SFR & Giles Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	12	53	63	401	587	17
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83
Hourly flow rate (veh/h)	14	64	76	483	707	20
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh)						
vC, conflicting volume	1111	364	728			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	7.2	7.3	4.5			
tC, 2 stage (s)						
tF (s)	3.7	3.5	2.4			
p0 queue free %	91	89	90			
cM capacity (veh/h)	161	587	768			

Direction, Lane #	EB 1	EB 2	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	14	64	76	242	242	471	256
Volume Left	14	0	76	0	0	0	0
Volume Right	0	64	0	0	0	0	20
cSH	161	587	768	1700	1700	1700	1700
Volume to Capacity	0.09	0.11	0.10	0.14	0.14	0.28	0.15
Queue Length (ft)	7	9	8	0	0	0	0
Control Delay (s)	29.6	11.9	10.2	0.0	0.0	0.0	0.0
Lane LOS	D	B	B				
Approach Delay (s)	15.2		1.4			0.0	
Approach LOS	C						

Intersection Summary			
Average Delay	1.4		
Intersection Capacity Utilization	37.7%	ICU Level of Service	A

INTERSECTION LOS A

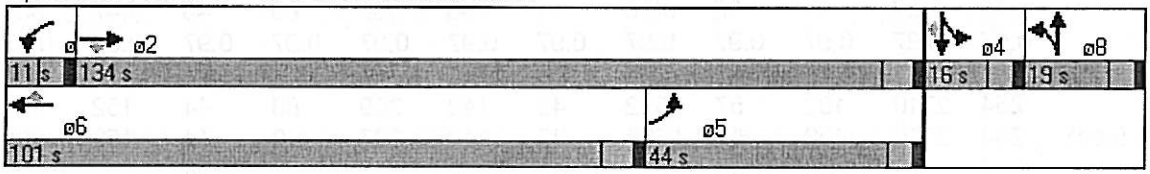
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.967				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1736	3471	1449	1736	3471	1449	1736	1767	0	1736	3471	1708
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1736	3471	1449	1736	3471	1449	1736	1767	0	1736	3471	1708
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			59			24		6				318
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	246	2629	99	55	1476	41	138	300	85	43	147	389
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Adj. Flow (vph)	254	2710	102	57	1522	42	142	309	88	44	152	401
Lane Group Flow (vph)	254	2710	102	57	1522	42	142	397	0	44	152	401
Turn Type	Prot		Perm	Prot		Perm	Split			Split		Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases			2			6						4
Minimum Split (s)	11.0	23.0	23.0	11.0	23.0	23.0	16.0	16.0		16.0	16.0	16.0
Total Split (s)	44.0	134.0	134.0	11.0	101.0	101.0	19.0	19.0	0.0	16.0	16.0	16.0
Total Split (%)	24%	74%	74%	6%	56%	56%	11%	11%	0%	9%	9%	9%
Maximum Green (s)	38.0	127.0	127.0	5.0	94.0	94.0	13.0	13.0		10.0	10.0	10.0
Yellow Time (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0		4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lead/Lag	Lag	Lag	Lag	Lead	Lead	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Act Effct Green (s)	40.0	130.0	130.0	7.0	97.0	97.0	14.9	14.9		12.1	12.1	12.1
Actuated g/C Ratio	0.22	0.72	0.72	0.04	0.54	0.54	0.08	0.08		0.07	0.07	0.07
v/c Ratio	0.66	1.08	0.10	0.84	0.81	0.05	0.98	2.59		0.38	0.66	0.98
Uniform Delay, d1	63.7	25.0	3.0	85.9	34.1	8.3	82.3	79.3		80.4	81.9	17.3
Delay	64.5	66.6	3.3	128.2	34.6	10.2	127.6	355.9		81.2	82.4	43.4
LOS	E	E	A	F	C	B	F	F		F	F	D
Approach Delay		64.3			37.2			295.7			56.1	
Approach LOS		E			D			F			E	
Queue Length 50th (ft)	277	~1874	0	68	763	10	171	~784		51	94	105
Queue Length 95th (ft)	385	#1969	31	#167	863	32	#329	#1014		99	138	#335
Internal Link Dist (ft)		420			420			420			1920	
50th Up Block Time (%)		24%			21%			50%				
95th Up Block Time (%)		25%			24%			77%				
Turn Bay Length (ft)	500		260	140		238				164		220

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
50th Bay Block Time %		23%			38%							
95th Bay Block Time %		25%		19%	39%							29%
Queuing Penalty (veh)		61		72	22							11

Intersection Summary

Area Type: Other
Cycle Length: 180
Actuated Cycle Length: 180
Offset: 0 (0%), Referenced to phase 2:EBT, Start of Green
Natural Cycle: 150
Control Type: Pretimed
Maximum v/c Ratio: 2.59
Intersection Signal Delay: 77.4 Intersection LOS: E
Intersection Capacity Utilization 116.5% ICU Level of Service G
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 3: US 290 & Giles Lane



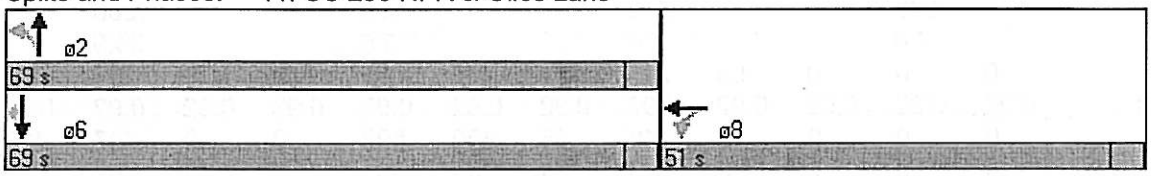
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		0	0		200
Storage Lanes	0		0	0		0	1		0	0		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.95	1.00	1.00	0.95	1.00
Frt					0.980							0.850
Flt Protected					0.991		0.950					
Satd. Flow (prot)	0	0	0	0	3437	0	1770	3539	0	0	3539	1583
Flt Permitted					0.991		0.622					
Satd. Flow (perm)	0	0	0	0	3437	0	1159	3539	0	0	3539	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					16							423
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		45			45			50			50	
Link Distance (ft)		500			500			400			1800	
Travel Time (s)		7.6			7.6			5.5			24.5	
Volume (vph)	0	0	0	55	221	41	138	546	0	0	190	389
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	60	240	45	150	593	0	0	207	423
Lane Group Flow (vph)	0	0	0	0	345	0	150	593	0	0	207	423
Turn Type				Perm			Perm					Perm
Protected Phases					8			2			6	
Permitted Phases				8			2					6
Minimum Split (s)				20.0	20.0		20.0	20.0			20.0	20.0
Total Split (s)	0.0	0.0	0.0	51.0	51.0	0.0	69.0	69.0	0.0	0.0	69.0	69.0
Total Split (%)	0%	0%	0%	43%	43%	0%	58%	58%	0%	0%	58%	58%
Maximum Green (s)				47.0	47.0		65.0	65.0			65.0	65.0
Yellow Time (s)				3.5	3.5		3.5	3.5			3.5	3.5
All-Red Time (s)				0.5	0.5		0.5	0.5			0.5	0.5
Lead/Lag												
Lead-Lag Optimize?												
Walk Time (s)				5.0	5.0		5.0	5.0			5.0	5.0
Flash Dont Walk (s)				11.0	11.0		11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0		0	0			0	0
Act Effct Green (s)					47.0		65.0	65.0			65.0	65.0
Actuated g/C Ratio					0.39		0.54	0.54			0.54	0.54
v/c Ratio					0.25		0.24	0.31			0.11	0.40
Uniform Delay, d1					23.4		14.5	15.1			13.4	0.0
Delay					23.6		10.2	10.2			13.5	1.3
LOS					C		B	B			B	A
Approach Delay					23.6			10.2			5.3	
Approach LOS					C			B			A	
Queue Length 50th (ft)					88		33	68			39	0
Queue Length 95th (ft)					125		56	92			59	43
Internal Link Dist (ft)		420			420			320			1720	
50th Up Block Time (%)												
95th Up Block Time (%)												

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)												200
50th Bay Block Time %												
95th Bay Block Time %												
Queuing Penalty (veh)												

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green
Natural Cycle: 40
Control Type: Pretimed
Maximum v/c Ratio: 0.40
Intersection Signal Delay: 11.1 Intersection LOS: B
Intersection Capacity Utilization 54.3% ICU Level of Service A

Splits and Phases: 11: US 290 NFR & Giles Lane

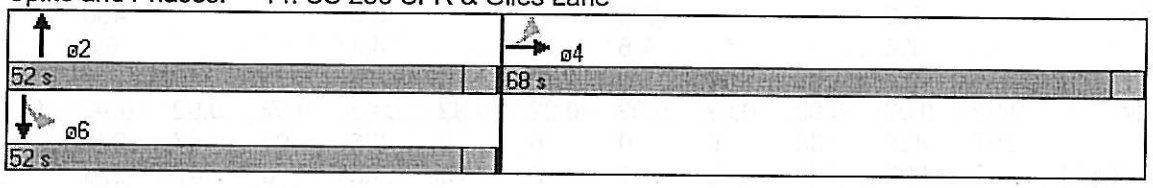


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Frt		0.980						0.976				
Flt Protected		0.984								0.950		
Satd. Flow (prot)	0	3413	0	0	0	0	0	3454	0	1770	3539	0
Flt Permitted		0.984								0.344		
Satd. Flow (perm)	0	3413	0	0	0	0	0	3454	0	641	3539	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		22						22				
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Speed (mph)		45			45			50			50	
Link Distance (ft)		500			500			300			400	
Travel Time (s)		7.6			7.6			4.1			5.5	
Volume (vph)	246	394	99	0	0	0	0	438	85	43	202	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	267	428	108	0	0	0	0	476	92	47	220	0
Lane Group Flow (vph)	0	803	0	0	0	0	0	568	0	47	220	0
Turn Type	Perm									Perm		
Protected Phases		4						2			6	
Permitted Phases	4									6		
Minimum Split (s)	20.0	20.0						20.0		20.0	20.0	
Total Split (s)	68.0	68.0	0.0	0.0	0.0	0.0	0.0	52.0	0.0	52.0	52.0	0.0
Total Split (%)	57%	57%	0%	0%	0%	0%	0%	43%	0%	43%	43%	0%
Maximum Green (s)	64.0	64.0						48.0		48.0	48.0	
Yellow Time (s)	3.5	3.5						3.5		3.5	3.5	
All-Red Time (s)	0.5	0.5						0.5		0.5	0.5	
Lead/Lag												
Lead-Lag Optimize?												
Walk Time (s)	5.0	5.0						5.0		5.0	5.0	
Flash Dont Walk (s)	11.0	11.0						11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0						0		0	0	
Act Effct Green (s)		64.0						48.0		48.0	48.0	
Actuated g/C Ratio		0.53						0.40		0.40	0.40	
v/c Ratio		0.44						0.41		0.18	0.16	
Uniform Delay, d1		16.5						24.7		23.3	23.0	
Delay		16.7						24.9		17.4	16.9	
LOS		B						C		B	B	
Approach Delay		16.7						24.9			17.0	
Approach LOS		B						C			B	
Queue Length 50th (ft)		186						151		14	34	
Queue Length 95th (ft)		235						198		30	50	
Internal Link Dist (ft)		420			420			220			320	
50th Up Block Time (%)												
95th Up Block Time (%)												
Turn Bay Length (ft)												
50th Bay Block Time %												

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
95th Bay Block Time %												
Queuing Penalty (veh)												

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green			
Natural Cycle: 40			
Control Type: Pretimed			
Maximum v/c Ratio: 0.44			
Intersection Signal Delay: 19.6		Intersection LOS: B	
Intersection Capacity Utilization 45.8%		ICU Level of Service A	

Splits and Phases: 14: US 290 SFR & Giles Lane



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Volume (veh/h)	7	20	3	34	566	2
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (veh/h)	8	22	3	37	622	2
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None					
Median storage veh)						
vC, conflicting volume	648	312	624			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
tC, single (s)	7.0	7.1	4.3			
tC, 2 stage (s)						
tF (s)	3.6	3.4	2.3			
p0 queue free %	98	97	100			
cM capacity (veh/h)	386	663	907			

Direction, Lane #	EB 1	EB 2	NB 1	NB 2	NB 3	SB 1	SB 2
Volume Total	8	22	3	19	19	415	210
Volume Left	8	0	3	0	0	0	0
Volume Right	0	22	0	0	0	0	2
cSH	386	663	907	1700	1700	1700	1700
Volume to Capacity	0.02	0.03	0.00	0.01	0.01	0.24	0.12
Queue Length (ft)	2	3	0	0	0	0	0
Control Delay (s)	14.5	10.6	9.0	0.0	0.0	0.0	0.0
Lane LOS	B	B	A				
Approach Delay (s)	11.6		0.7			0.0	
Approach LOS	B						

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	27.3%	ICU Level of Service	A

INTERSECTION LOS A

WHM Transportation Engineering | 504 Lavaca Street, # 1175 Austin, Texas 78701 USA | Telephone: 512 473-8343 Facsimile: 512 473-8237

November 12, 2004

Mr. Gary Morris
Driveway Permit Coordinator
Austin District
Texas Department of Transportation
P.O. Drawer 15426
Austin, Texas 78761

Dear Gary:

The following comments are submitted in response to your September 29, 2004 letter concerning the Transportation Study report for the Austin Community Recycling and Disposal Facility in Austin, Texas.

To determine the adequacy of the eastbound storage length under 2007 traffic conditions, WHM performed capacity analysis for the intersection of Giles Lane/Johnny Morris Road and US 290 for AM and PM peak periods. Assuming signal-timing optimization, the intersection will operate at acceptable levels of service during both the AM and PM peak periods. The 95th percentile queue lengths for the eastbound US 290 left turn movement will be 411 feet and 258 feet during the AM and PM peak periods, respectively, for year 2007 conditions. Output of Synchro results are attached for your review. The existing 500-foot left turn bay is adequate to handle the maximum queue length during both peak periods.

Please feel free to contact Tim Grimes or me if you have any additional questions or comments.

Sincerely,

Rashed Islam, P.E., PTOE
Project Manager

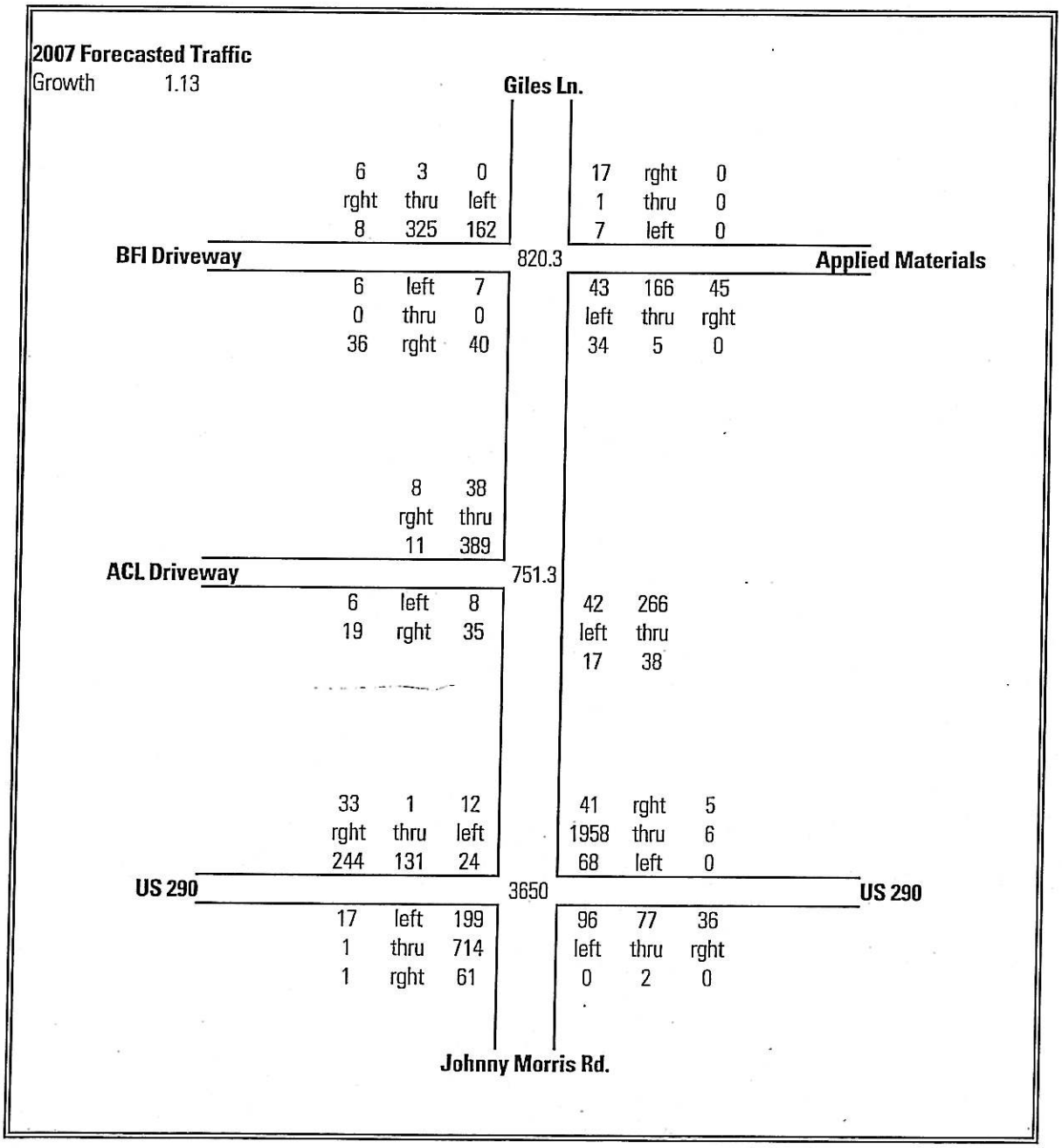
TM

Enclosures

AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

AM PEAK

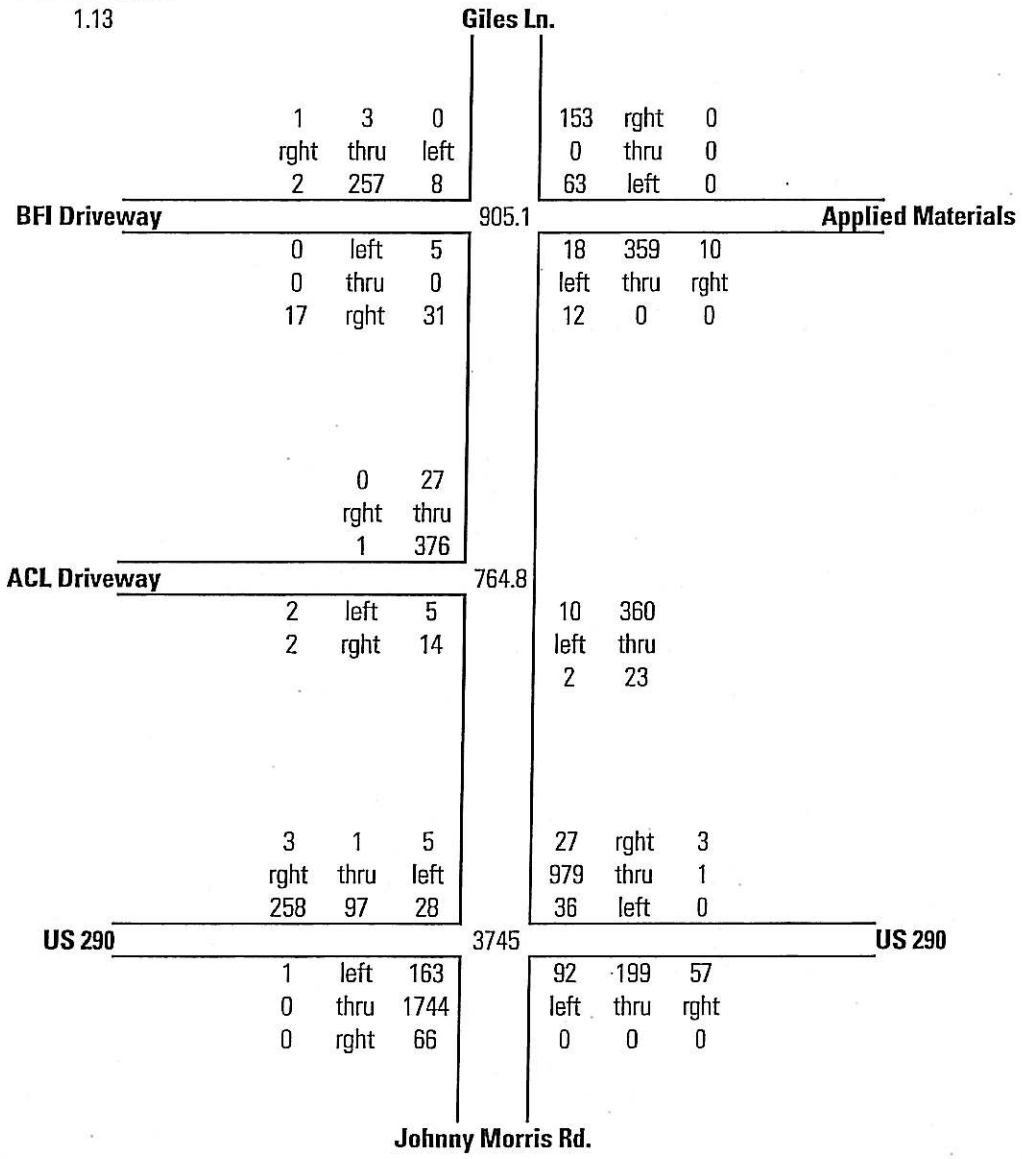


AUSTIN COMMUNITY LANDFILL

DISTRIBUTION SPREADSHEET

PM PEAK

2007 Forecasted Traffic
Growth 1.13



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50	50	50	50	50	50	50		50	50	50
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.966				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1736	3471	1449	1736	3471	1449	1736	1765	0	1736	3471	1708
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1736	3471	1449	1736	3471	1449	1736	1765	0	1736	3471	1708
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			32			26		7				162
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	163	1744	66	36	979	27	92	199	57	28	97	258
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Adj. Flow (vph)	168	1798	68	37	1009	28	95	205	59	29	100	266
Lane Group Flow (vph)	168	1798	68	37	1009	28	95	264	0	29	100	266
Turn Type	Prot		Perm	Prot		Perm	Split			Split		pt+ov
Protected Phases	5	2		1	6		4	4		8	8	8 5
Permitted Phases			2			6						
Detector Phases	5	2	2	1	6	6	4	4		8	8	8 5
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Minimum Split (s)	12.0	23.0	23.0	12.0	23.0	23.0	16.0	16.0		16.0	16.0	
Total Split (s)	26.0	92.0	92.0	41.0	107.0	107.0	27.0	27.0	0.0	20.0	20.0	46.0
Total Split (%)	14.4%	51.1%	51.1%	22.8%	59.4%	59.4%	15.0%	15.0%	0.0%	11.1%	11.1%	25.6%
Maximum Green (s)	18.0	84.0	84.0	33.0	99.0	99.0	20.0	20.0		13.0	13.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0		4.0	4.0	
All-Red Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	Max	Max	None	None	None	None	None		None	None	
Act Effct Green (s)	20.7	88.4	88.4	12.7	77.2	77.2	23.1	23.1		13.6	13.6	34.3
Actuated g/C Ratio	0.14	0.59	0.59	0.08	0.51	0.51	0.15	0.15		0.09	0.09	0.23
v/c Ratio	0.70	0.88	0.08	0.26	0.57	0.04	0.36	0.96		0.18	0.32	0.52
Control Delay	76.8	34.6	9.4	67.3	26.6	6.9	63.7	105.2		67.3	67.3	15.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	76.8	34.6	9.4	67.3	26.6	6.9	63.7	105.2		67.3	67.3	15.2
LOS	E	C	A	E	C	A	E	F		E	E	B
Approach Delay		37.3			27.5			94.2			32.2	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		D			C			F			C	
Queue Length 50th (ft)	163	823	16	36	362	1	88	263		27	50	62
Queue Length 95th (ft)	#258	1020	42	77	435	18	153	#473		63	84	134
Internal Link Dist (ft)		420			420			420			1920	
Turn Bay Length (ft)	500		260	140		238				164		220
Base Capacity (vph)	252	2036	863	362	2027	857	266	276		182	364	543
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Reduced v/c Ratio	0.67	0.88	0.08	0.10	0.50	0.03	0.36	0.96		0.16	0.27	0.49

Intersection Summary

Area Type: Other

Cycle Length: 180

Actuated Cycle Length: 150.7

Natural Cycle: 100

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96

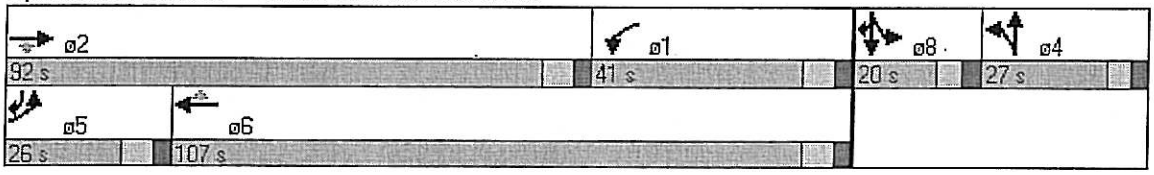
Intersection Signal Delay: 39.3 Intersection LOS: D

Intersection Capacity Utilization 82.1% ICU Level of Service E

Analysis Period (min) 15

\# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 3: US 290 & Giles Lane



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	12	12	10	12	12	12	12	12	15
Storage Length (ft)	500		260	140		238	0		0	164		220
Storage Lanes	1		1	1		1	1		0	1		1
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50	50	50	50	50	50	50		50	50	50
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	0
Turning Speed (mph)	15		9	15		9	15		9	15		9
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	1.00	0.95	1.00
Frt			0.850			0.850		0.952				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1687	3374	1409	1687	3374	1409	1687	1690	0	1687	3374	1660
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			66			22		10				25
Headway Factor	1.00	1.00	1.09	1.00	1.00	1.09	1.00	1.00	1.00	1.00	1.00	0.88
Link Speed (mph)		55			55			50			50	
Link Distance (ft)		500			500			500			2000	
Travel Time (s)		6.2			6.2			6.8			27.3	
Volume (vph)	199	714	61	68	1958	41	96	77	36	24	131	244
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Adj. Flow (vph)	214	768	66	73	2105	44	103	83	39	26	141	262
Lane Group Flow (vph)	214	768	66	73	2105	44	103	122	0	26	141	262
Turn Type	Prot		Perm	Prot		Perm	Split			Split		pt+ov
Protected Phases	5	2		1	6		4	4		8	8	8 5
Permitted Phases			2			6						
Detector Phases	5	2	2	1	6	6	4	4		8	8	8 5
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Minimum Split (s)	12.0	23.0	23.0	12.0	23.0	23.0	16.0	16.0		16.0	16.0	
Total Split (s)	30.0	127.0	127.0	20.0	117.0	117.0	17.0	17.0	0.0	16.0	16.0	46.0
Total Split (%)	16.7%	70.6%	70.6%	11.1%	65.0%	65.0%	9.4%	9.4%	0.0%	8.9%	8.9%	25.6%
Maximum Green (s)	22.0	119.0	119.0	12.0	109.0	109.0	10.0	10.0		9.0	9.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0		4.0	4.0	
All-Red Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	Max	Max	None	None	None	None	None		None	None	
Act Effct Green (s)	25.8	123.0	123.0	15.8	113.0	113.0	13.0	13.0		12.0	12.0	37.8
Actuated g/C Ratio	0.14	0.68	0.68	0.09	0.63	0.63	0.07	0.07		0.07	0.07	0.21
v/c Ratio	0.88	0.33	0.07	0.49	0.99	0.05	0.84	0.93		0.23	0.63	0.71
Control Delay	107.5	12.1	2.0	89.7	50.5	7.5	128.2	134.8		85.1	94.6	62.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Delay	107.5	12.1	2.0	89.7	50.5	7.5	128.2	134.8		85.1	94.6	62.3
LOS	F	B	A	F	D	A	F	F		F	F	E
Approach Delay		31.0			50.9			131.8			74.3	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		C			D			F			E	
Queue Length 50th (ft)	252	185	0	84	1248	10	123	135		30	87	224
Queue Length 95th (ft)	#411	220	17	144	#1466	28	#242	#277		68	129	319
Internal Link Dist (ft)		420			420			420			1920	
Turn Bay Length (ft)	500		260	140		238				164		220
Base Capacity (vph)	244	2308	985	150	2120	894	122	131		112	225	370
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	0
Reduced v/c Ratio	0.88	0.33	0.07	0.49	0.99	0.05	0.84	0.93		0.23	0.63	0.71

Intersection Summary

Area Type: Other

Cycle Length: 180

Actuated Cycle Length: 179.8

Natural Cycle: 150

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.99

Intersection Signal Delay: 52.8 Intersection LOS: D

Intersection Capacity Utilization 88.1% ICU Level of Service E

Analysis Period (min) 15

\# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 3: US 290 & Giles Lane