



- Southwest corner of City owned land (refer attached Contract B and C plans for more detail)
  - Ground Elevation = ~ 2853 Ft
- Capacity
  - 2.0 MG
  - Top ½ Service Capacity (1 MG)
  - Bottom ½ Reserve Capacity (1 MG)
- Water Elevations
  - Max = 3008 Ft
  - Min = 2958 Ft
- Tank Height
  - 155 Ft
- EST Material
  - Composite (welded steel tank and concrete support pedestal)
- Tank Inlet/Outlet Pipe Material
  - 304 SS and Ductile Iron
- Residual chloramine boosting capability
  - Vault for future chloramine injection point with 24" wafer style static mixer, if needed.
- Submersible mixer for management of drinking water quality
- Distribution Main from EST to WPPPP
  - Size = 24"
  - Length = 14,639 ft
  - Max Flow = 6,000 gpm
  - Velocity
    - Vmax = 4.3 fps
  - Material
    - DI or PVC C900
  - Pipeline ancillary items
    - Gate valves



- Air Release Valves
- Stub-outs for future tie-in locations
- Instrumentation, Controls and SCADA
  - Instrumentation at new WPP TPS includes one (1) 30-inch mag-meter, one (1) pressure indicating transmitter, two (2) total chlorine analyzers, one (1) ammonia chloramine analyzer, two (2) turbidimeters, pressure gauges and switches.
  - Instrumentation at new EST includes two (2) total chlorine analyzers, one (1) level indicating transmitter, and provisions for one (1) future 24-inch mag-meter.
  - The proposed NE TPS includes a PLC connected to the existing SCADA system in the WPP control room via fiber optic cable. The EST includes an RTU with antenna to communicate instrument readings, tank mixer status and entry door alarms via radio signal with the existing SCADA system at the WPP. The operation of each transfer pump will be electrically interlocked with its own pressure switch. In addition, the pump station discharge header includes a pressure indicating transmitter and mag-meter to monitor discharge pressure and flow rate. High and low pressure and flow rate alarms will be programmed at the PLC, providing control-level interlocks with pump station operation.
  - Pump equipment status, instrument readings and entry door alarms at the TPS will be monitored at the PLC and plant SCADA systems. The PLC will control pump station operation using the tank level signal obtained via the plant SCADA system. Each pump with start/stop in conjunction with its pump control valve as required to meet demand.
- Emergency Power
  - WPP TPS includes an automatic transfer switch (ATS) for operation on a portable generator that is designed to handle building/controls electrical and any single pump during a power outage.
- Project Cost Estimation
  - Elevated Storage: \$3 - \$4 MM
  - Transfer Pump Station: \$4 - \$5 MM
  - Transmission and Distribution Line: \$12 – \$13 MM





# TCEQ PUBLIC WATER SYSTEM PLAN REVIEW SUBMITTAL FORM

(Complete, Seal and Attach to Submittal Package)

## WATER SYSTEM INFORMATION

Date: **10/04/2019**

TCEQ PWS Identification No.: (Facilities will be assigned this PWS No.)	<b>1650001</b>
Water System Name:	<b>City of Midland, TX</b>

## OWNER INFORMATION

Water System Owner: <b>City of Midland, Texas</b>	
Address: <b>300 N. Loraine, Midland, TX 79701</b>	(AC) Phone: <b>432-685-7100</b>
Responsible Official: <b>Carl Cralgo, P.E.</b>	Title: <b>Director of Utilities</b>
County (System Location): <b>Midland County</b>	Mechanism & Source of Financing: (i.e. loans, rates, self-financed, etc.) <b>Self-financed</b>
Subdivision Sec., Phase, Unit, Etc. <b>Northeast Transfer Pump Station, Transmission Line, 2.0 MG Elevated Storage Tank, and Distribution Line Improvements</b>	

## ENGINEER INFORMATION

Engineer Name: <b>Joseph T. Mangrem, P.E.</b>	Registration No.: <b>117205</b>
Firm Name: <b>Enprotec / Hibbs &amp; Todd, Inc.</b>	Firm No.: <b>1151</b>
(AC) Phone: <b>325-698-5560</b>	(AC) Fax: <b>325-690-3240</b>
Firm Address: <b>402 Cedar Street, Abilene, TX 79601</b>	

## SUBMITTAL INFORMATION

Is this submittal for a new public water system? YES:  NO:

If no, proceed to the *Project Information* section on Page 2. If no PWS number exists, the owner must submit a core data form and business plan, if required, in accordance with §290.39(f) and (g).

### NEW (PROPOSED) WATER SYSTEMS

(Only complete this section if this submittal is for a NEW water system)

For new (proposed) system submittals, please provide 2 copies of the submittal and attach the following:

- A list of all water utilities within ½ mile of the proposed service area boundaries (reference 30 TAC 290.39(c)(1))
- Copies of written responses from each of the entities listed above (reference 30 TAC 290.39(c)(1))
- Copies of formal applications for service from each of the following (reference 30 TAC 290.39(c)(1)):
  - Any municipality if the system is within its ETJ
  - Any district or other political subdivision whose corporate boundaries are within ½ mile of the proposed service area boundaries
  - Any other water service provider whose certificated service area boundary is within ½ mile of the proposed service area boundaries
- Documentation that all application requirements, including fee payments, are current.

**Business plan:** Please complete the financial ability form, provide a cost summary for the proposed project, and submit a business plan (reference 30 TAC 290.39 (f)). The business plan must confirm capital available to construct the system according to TCEQ requirements. Acceptable financial information can include some of the following:  
 Financial statements (preferably audited), CPA compilation report, tax returns, statements of net worth, bank statements.  
 If the project is being funded with loan proceeds, provide a loan commitment letter from the lender specific to this project.

If the plan submittal is for a community system, also provide a copy of the Certificate of Convenience and Necessity (CCN) application submitted to the Public Utility Commission of Texas (PUC), and complete items referenced in 30 TAC 290.39 (f) (1 - 13).





## TCEQ PUBLIC WATER SYSTEM PLAN REVIEW SUBMITTAL FORM (Complete, Seal and Attach to Submittal Package)

<input type="checkbox"/>	Justification for constructing a separate system (if one of the entities listed above is willing to provide service)
<input type="checkbox"/>	TCEQ Core Data Form (No. 10400)
<input type="checkbox"/>	Emergency Preparedness Plan (No. 20536) if serving water in Harris or Fort Bend Counties and have overnight accommodations

### CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN)

Certificates of Convenience and Necessity (CCN) applications are processed by the Public Utility Commission of Texas (PUC) and are required for privately owned systems and water supply corporations. If a CCN is required and a CCN does not exist, the applicant must obtain a CCN number or have the application accepted for filing at the PUC before a PWS project submittal can be technically reviewed. In addition, if a submittal is for a project located outside the CCN area, a CCN amendment application must be submitted before a project may be reviewed for construction approval. Please refer to PUC for additional information at: <http://www.puc.texas.gov/industry/water/guidance/UtilRulesGuidance.aspx>.

Will the proposed PWS be owned by either an investor owned utility (IOU) or water supply corporation (WSC)? If yes, please indicate which type of entity _____.	YES: <input type="checkbox"/> NO: <input type="checkbox"/>
Has a CCN application been submitted to the PUC? If yes, please provide the date of acceptance _____.	YES: <input type="checkbox"/> NO: <input type="checkbox"/>

List the name, license number and class of the operator for the proposed system: \_\_\_\_\_

### PROJECT INFORMATION

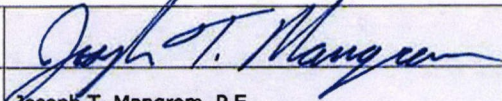
If a system does NOT have a PWS number, the sections above must be filled out

All engineering documents must be sealed, signed, and dated by a Texas registered professional engineer. An engineering report that includes the number of connections to be served must accompany each project. Please check each box that is applicable.

If this submittal is a revision of previously submitted plans, please provide the assigned TCEQ log number:	n/a
<u>New Projects/Facilities</u>	<u>Modifications to Existing Facilities</u>
<input type="checkbox"/> Water well construction – Proposed	<input type="checkbox"/> Surface water treatment plant modifications
<input type="checkbox"/> Well completion data for approved well	<input type="checkbox"/> Storage capacity modifications
<input type="checkbox"/> Ground water treatment plant – New	<input checked="" type="checkbox"/> Distribution system modifications including new Transfer Pump Station at the existing Water Purification Plant
<input type="checkbox"/> Surface water treatment plant – New	<input type="checkbox"/> Pressure maintenance facilities modifications
<input type="checkbox"/> Proposed Innovative/Alternative Treatment	<input type="checkbox"/> Disinfection facilities or other modifications
<input type="checkbox"/> Request for rule exception	<input checked="" type="checkbox"/> New 2.0 Million Gallon Elevated Storage Tank
<input type="checkbox"/> Preliminary engineering report without plans	
<input type="checkbox"/> Texas Water Development Board Project No.:	
<input type="checkbox"/> As-Built Plans & Engineering Report	
<input type="checkbox"/> Other (please describe):	

### SIGNATURE AND CERTIFICATION

*The following certification indicates I have the authority to make submittals on behalf of the PWS referenced on Page 1. I hereby certify that the above information is, to the best of my knowledge, true and correct:*

Engineer's Signature:		
Engineer's Printed Name:	Joseph T. Mangrem, P.E.	
Date:	October 4, 2019	

**Signature/P.E. Seal Required below:**



*Joseph T. Mangrem*  
10/4/2019

Please call (512) 239-4691 if you have questions regarding this form. Your cooperation will help us provide better service. Additional helpful information and rules are available at the Public Water System Plan Review website.



**Attachment J**

Public Notice

Notice to Landowners, Cities and Neighboring Systems,  
and current customers with a Copy of the Proposed CCN  
Map





***Notice for Publication***

NOTICE OF APPLICATION TO AMEND A CERTIFICATE OF CONVENIENCE AND NECESSITY TO PROVIDE WATER AND SEWER UTILITY SERVICE IN MIDLAND OR MARTIN COUNTY, TEXAS

The City of Midland has filed an application with the Public Utility Commission of Texas to amend its water Certificate of Convenience and Necessity (CCN) No. 10221 and sewer CCN No. 20083 as related to the provision of retail water and sewer utility service in Midland and Martin Counties.

**Requested Area 1:** Amending CCN Nos. 10221 and 20083

The **requested area 1** comprises the northeast portion of Midland, TX, and is generally bounded on the south by the Midland city limits; and on the north by the current CCN boundary. The **requested area 1** includes approximately 16,922 acres.

**Requested Area 2:** Amending CCN Nos. 10221 and 20083

The **requested area 2** is located in the southern portion of Midland, TX, and is generally bounded on the north by the Midland city limits; and on the north by Interstate 20 and the existing CCN boundary. The **requested area 2** includes approximately 1,022 acres.

**Requested Area 3:** Amending CCN Nos. 10221 and 20083

The **requested area 3** comprises the end of the west runway for the Midland International Air and Space Port on the west side of Midland, TX, and is generally bounded on the southwest by the existing CCN boundary; and otherwise by the Midland city limits. The **requested area 3** includes approximately 51 acres.

**Requested Area 4:** Amending CCN Nos. 10221 and 20083

The **requested area 4** comprises the end of the east runway for the Midland International Air and Space Port on the west side of Midland, TX, and is generally bounded on the south by the existing CCN boundary; and otherwise by the Midland city limits. The **requested area 4** includes approximately 111 acres.

**Requested Area 5:** Amending CCN Nos. 10221 and 20083

The **requested area 5** comprises the northwest side of Midland, TX, and is generally bounded on the north and west by the Midland city limits; and on the south by the existing CCN boundary. The **requested area 5** includes approximately 6,043 acres.

**Requested Area 6:** Amending CCN Nos. 10221 and 20083

The **requested area 6** is located on the northwest side of Midland, TX, and is generally bounded on the west by N CR 1260; on the south by U.S. 158; and on the north and east by the Midland city limits. The **requested area 6** includes approximately 23 acres.

**Requested Area 7:** Amending CCN Nos. 10221 and 20083

The **requested area 7** is located on the northwest side of Midland, TX, and is generally bounded on the north by Trenton Drive; on the east by FM 1255; on the west by N CR 1260; and on the south by W CR 60. The **requested area 7** includes approximately 204 acres.

The **seven requested areas** include approximately 24,376 total acres.





**A copy of the maps showing the requested areas is available at: City of Midland City Hall, 300 N Lorraine St, Midland, TX 79701.**

*Persons who wish to intervene in the proceeding or comment upon action sought should contact the Public Utility Commission, P.O. Box 13326, Austin, Texas 78711-3326, or call the Public Utility Commission at (512) 936-7120 or (888) 782-8477. Hearing- and speech-impaired individuals with text telephones (TTY) may contact the commission at (512) 936-7136. The deadline for intervention in the proceeding is (30 days from the mailing or publication of notice, whichever occurs later, unless otherwise provided by the presiding officer). You must send a letter requesting intervention to the commission which is received by that date.*

If a valid public hearing is requested, the Commission will forward the application to the State Office of Administrative Hearings (SOAH) for a hearing. If no settlement is reached and an evidentiary hearing is held, SOAH will submit a recommendation to the Commission for a final decision. An evidentiary hearing is a legal proceeding similar to a civil trial in state district court.

A landowner with a tract of land at least 25 acres or more, that is partially or wholly located within the requested area, may file a written request with the Commission to be excluded from the requested area ("opt out") within (30) days from the date that notice was provided by the Utility. All opt out requests must include a large scale map and a metes and bounds description of the landowner's tract of land.

Persons who wish to request this option should file the required documents with the:

Public Utility Commission of Texas  
Central Records  
1701 N. Congress, P. O. Box 13326  
Austin, TX 78711-3326

In addition, the landowner must also send a copy of the opt out request to the Utility. Staff may request additional information.

Si desea información en español, puede llamar al 1-888-782-8477.



**Notice to Neighboring Systems, Landowners, Customers and Cities**  
NOTICE OF APPLICATION TO AMEND A CERTIFICATE OF CONVENIENCE AND  
NECESSITY TO PROVIDE WATER AND SEWER UTILITY SERVICE IN MIDLAND OR  
MARTIN COUNTY, TEXAS

To: \_\_\_\_\_  
(Neighboring System, Landowner, Customer or City)

Date Notice Mailed: \_\_\_\_\_, 2019

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City State Zip)

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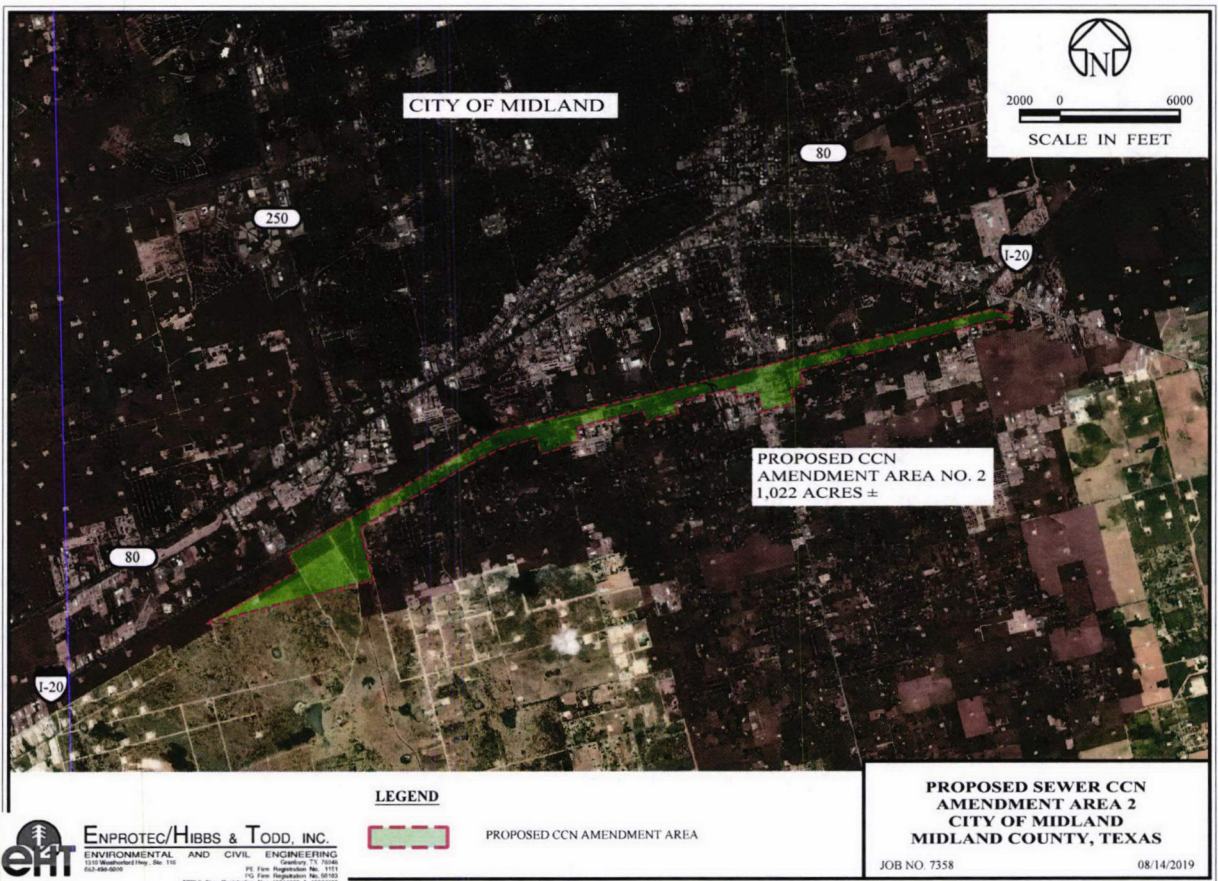
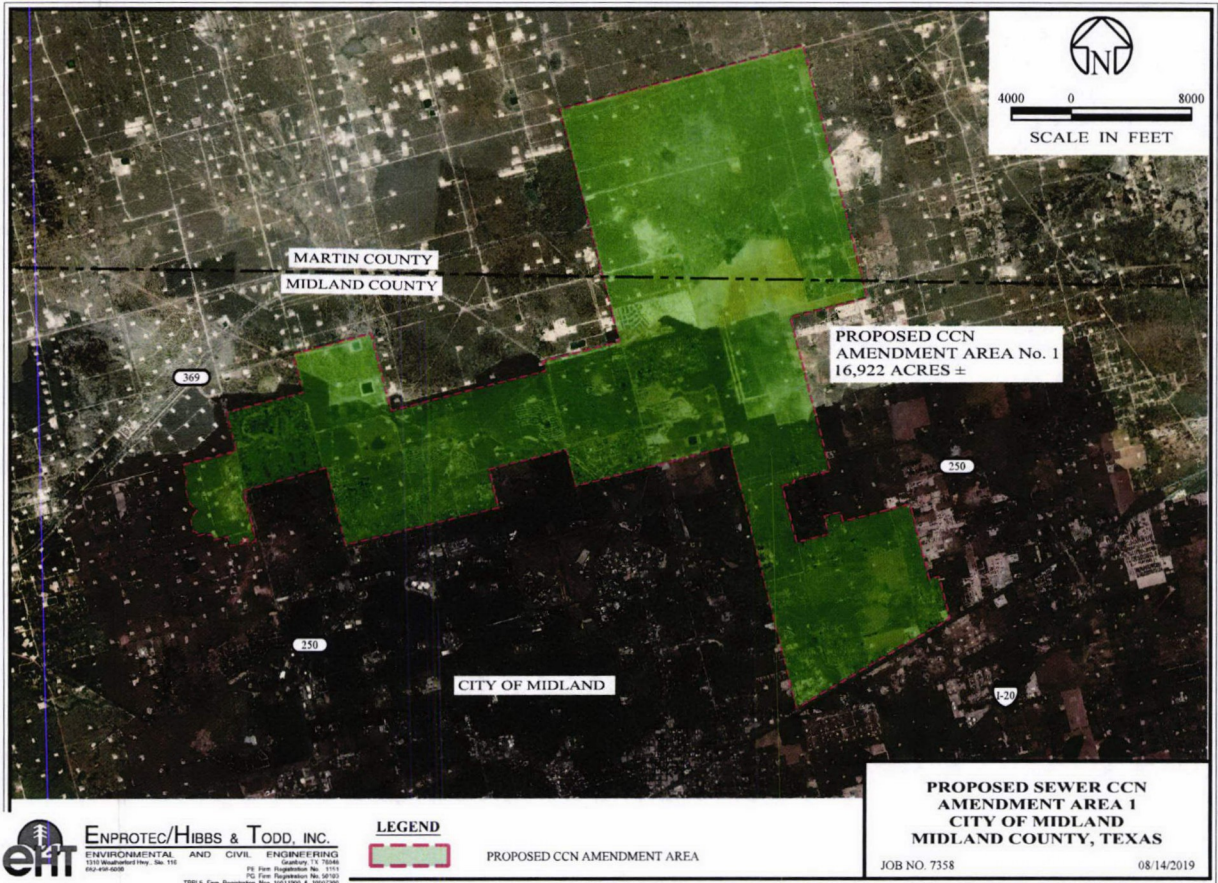
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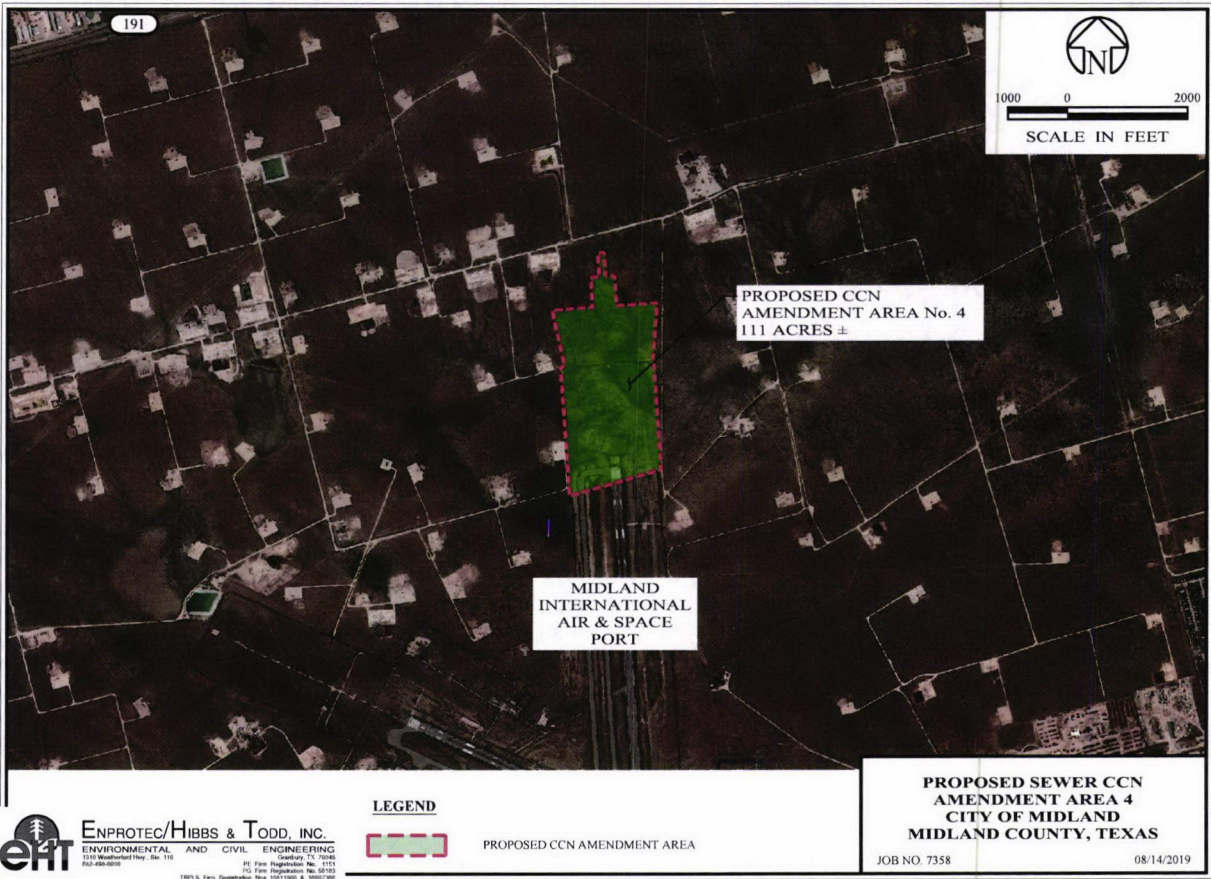
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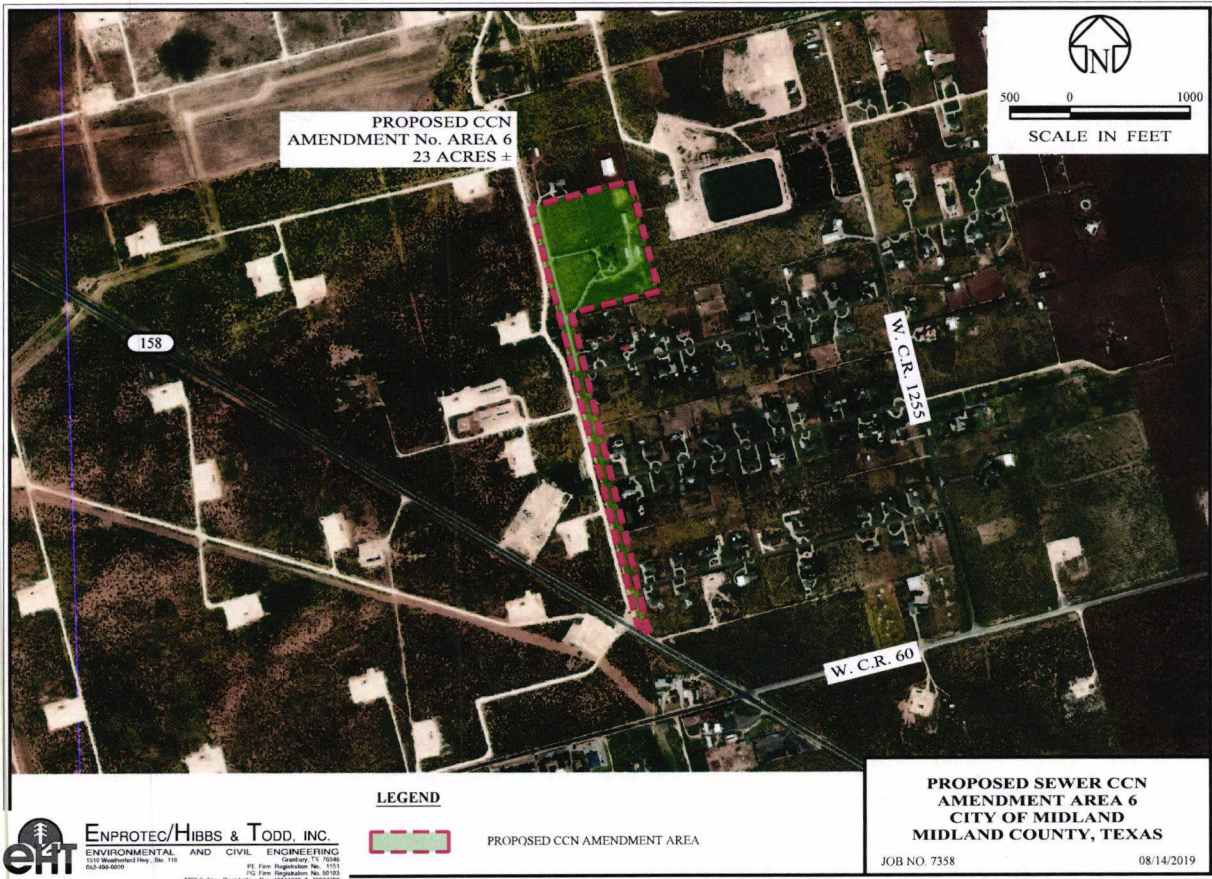
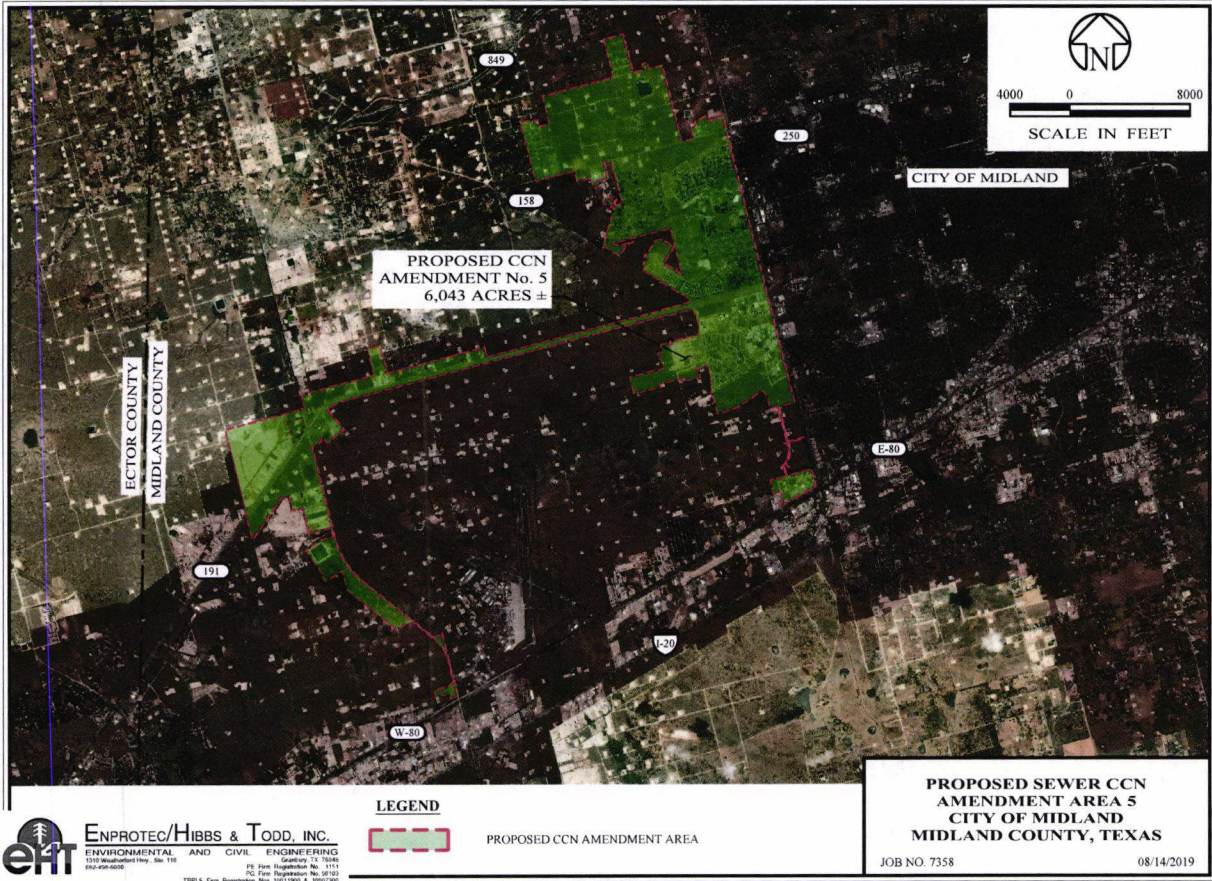




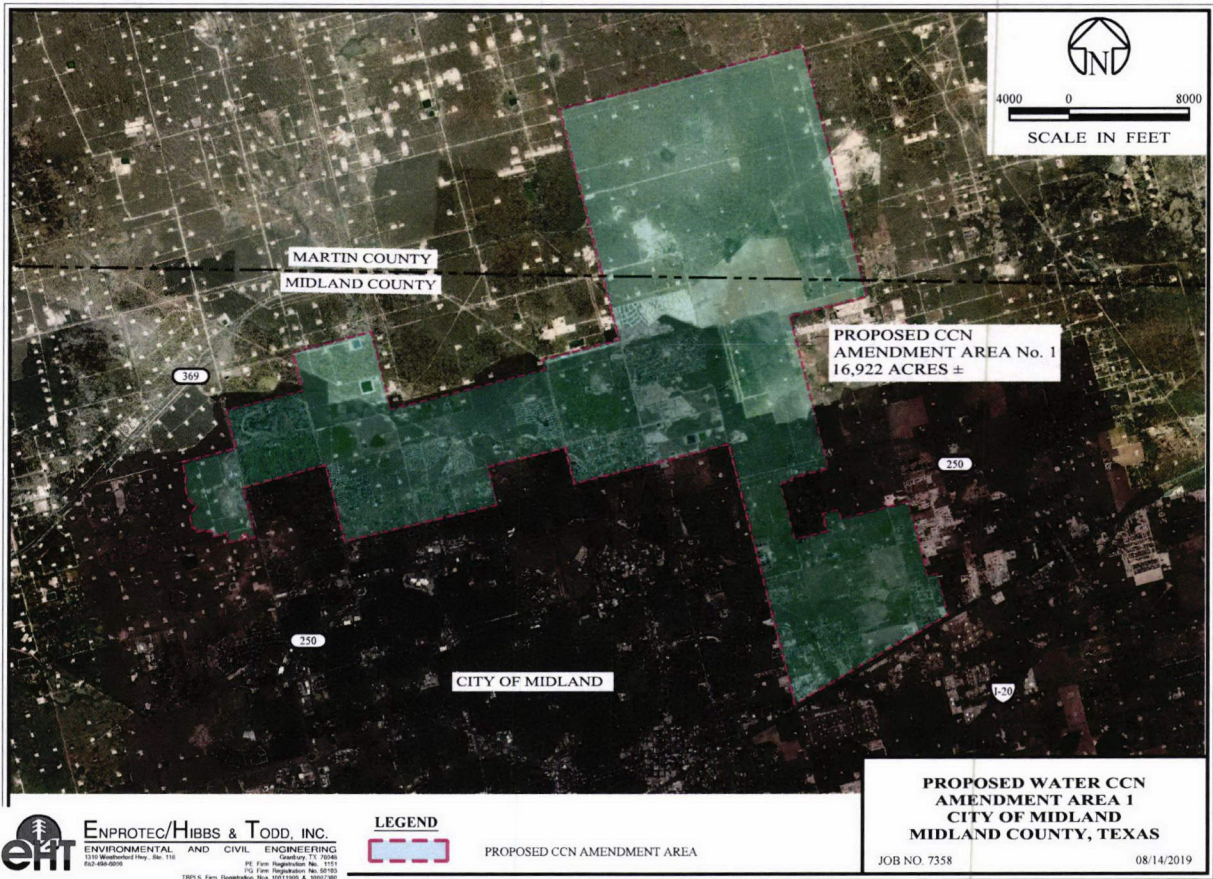
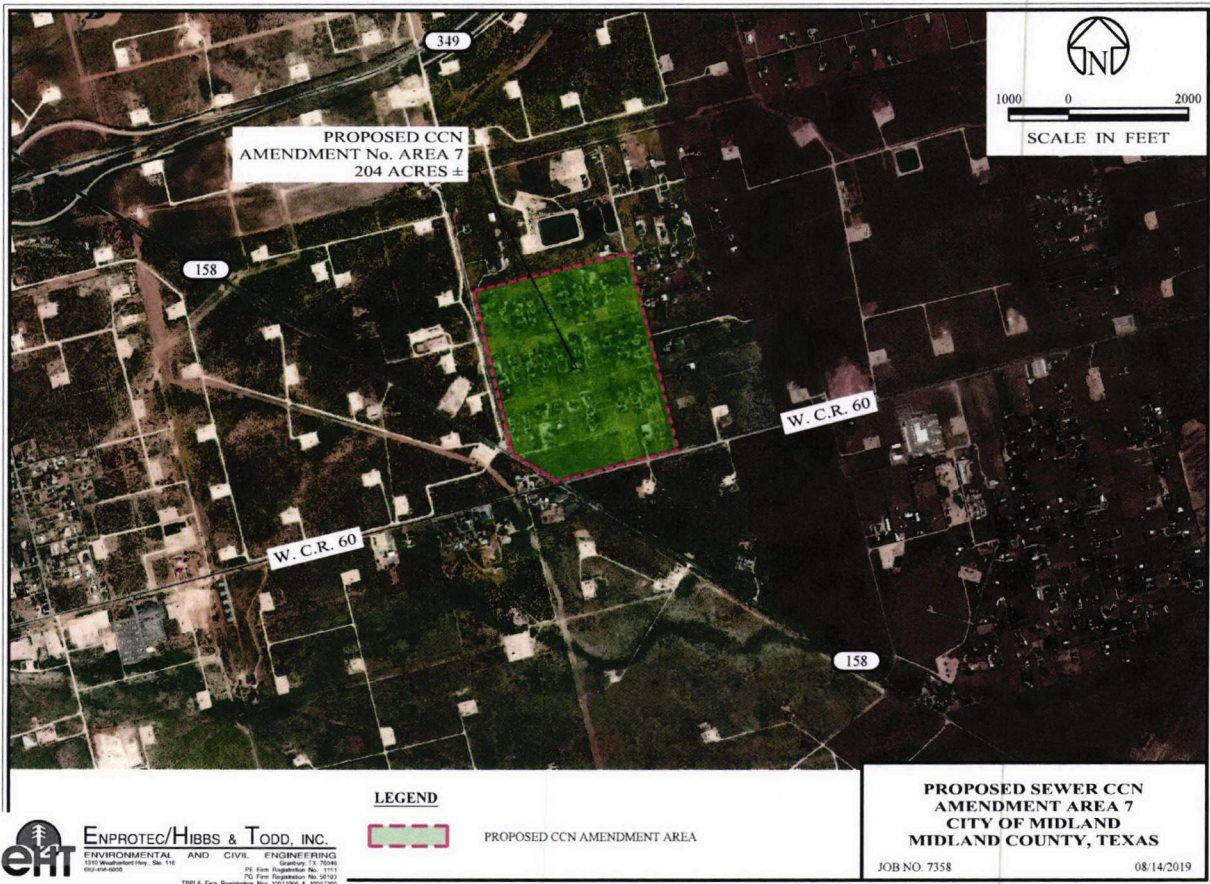




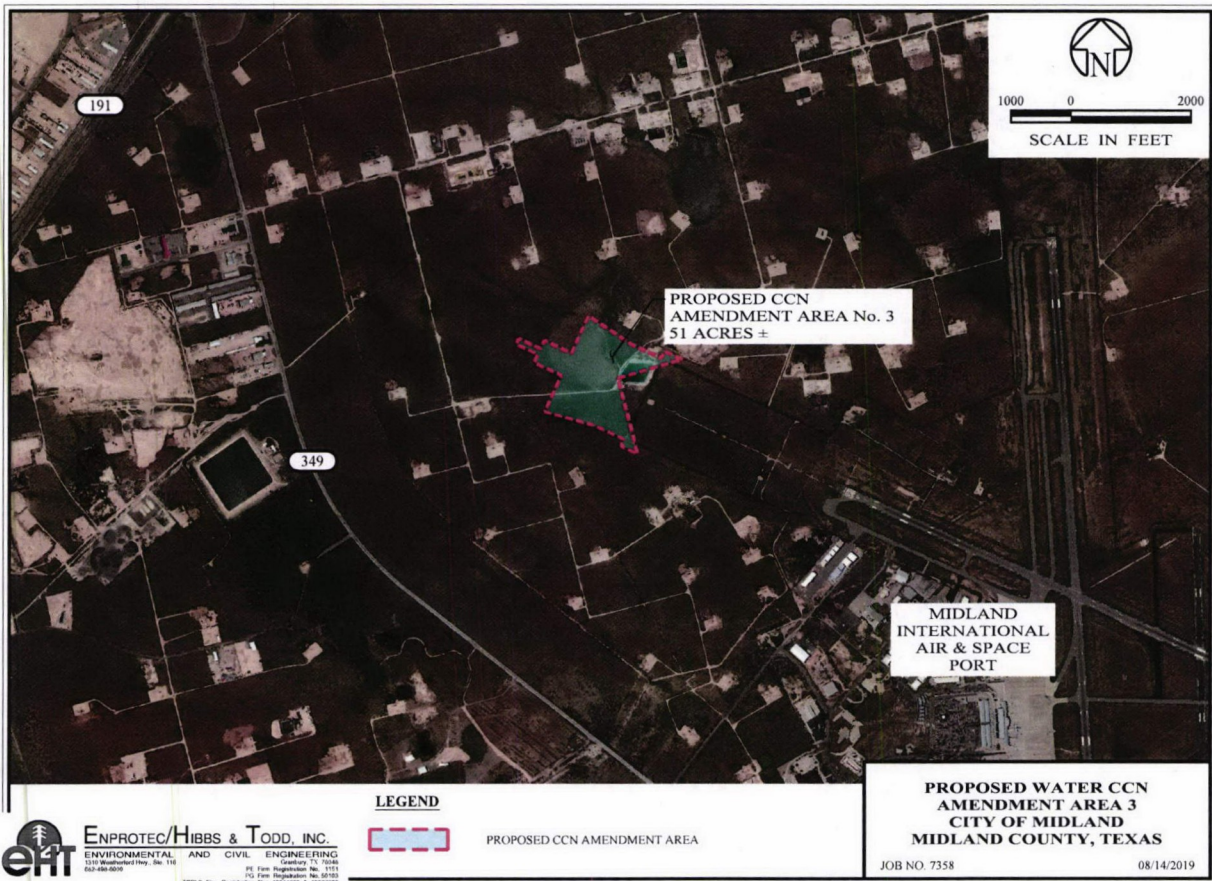
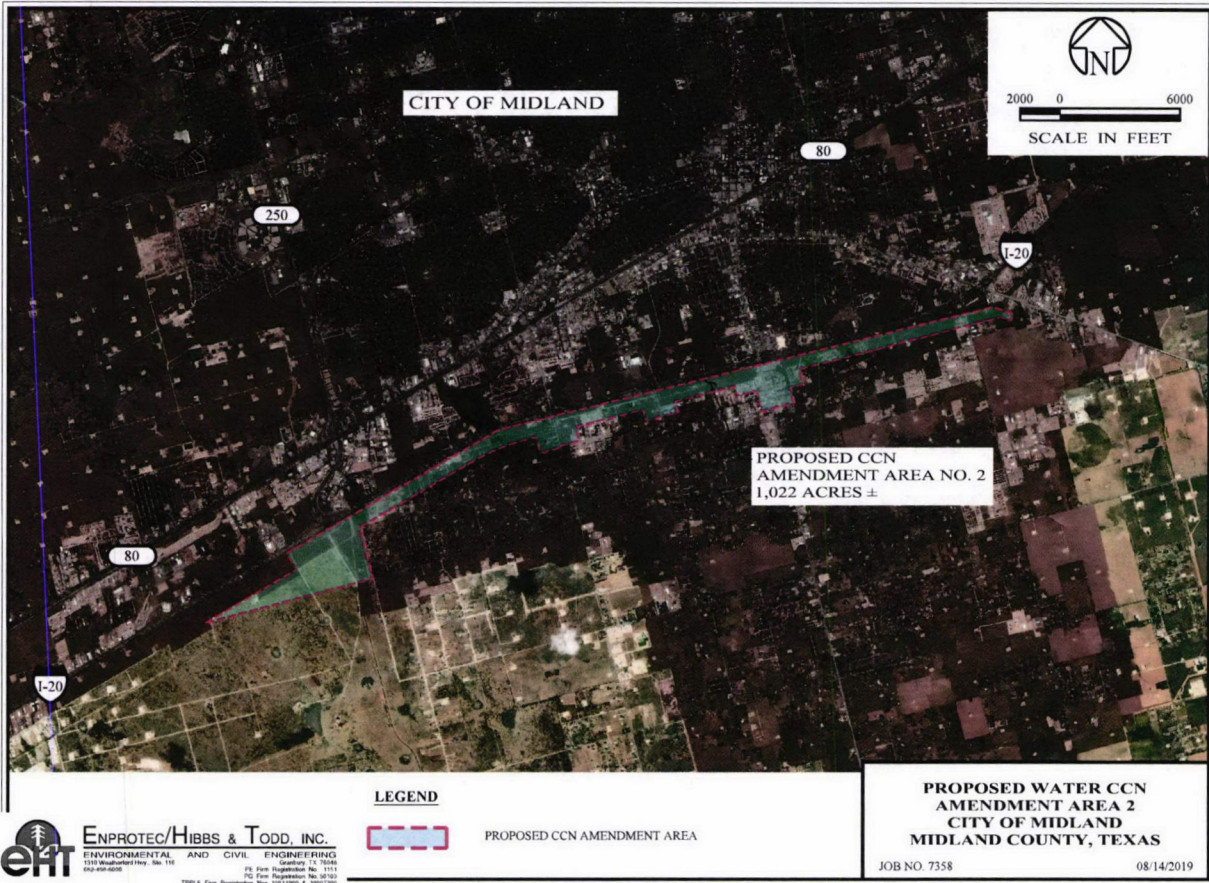




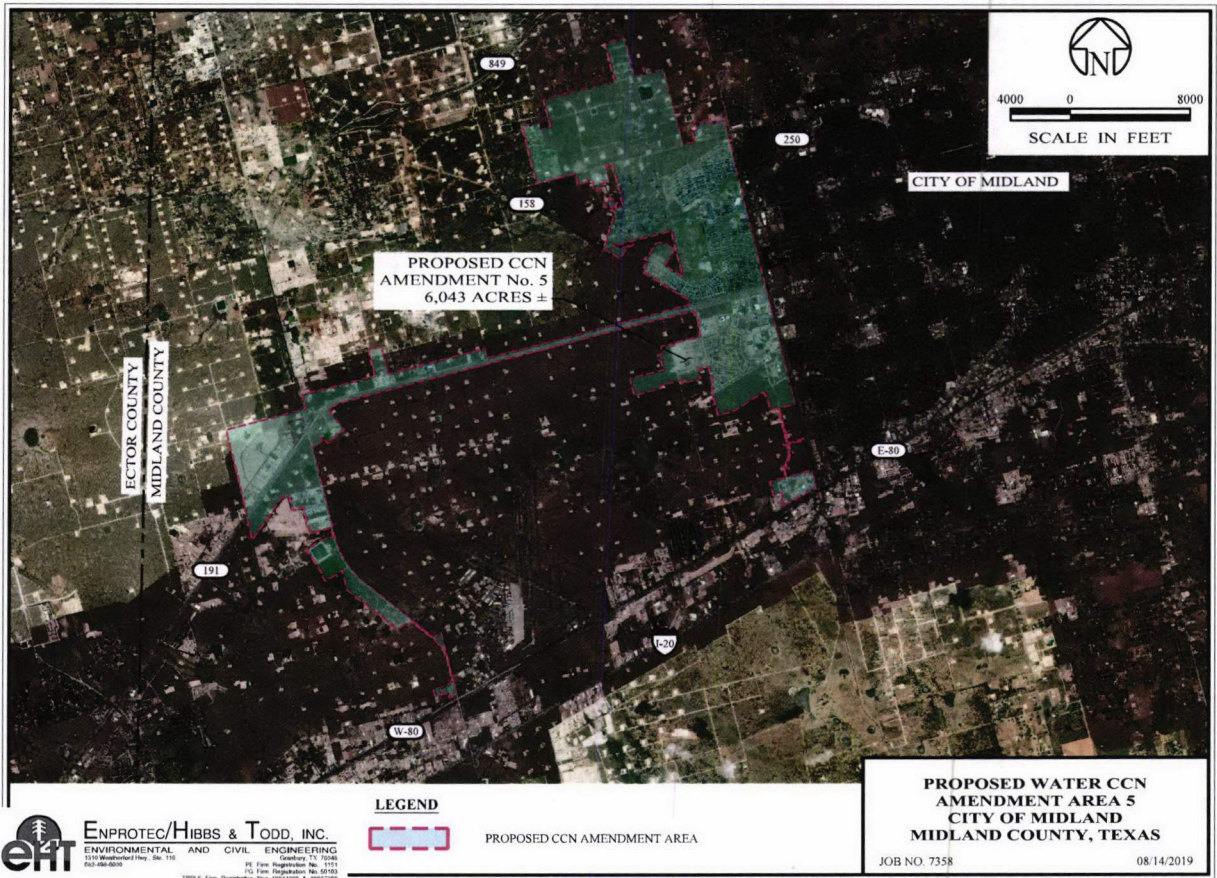








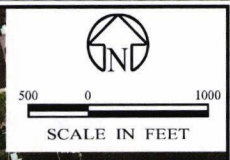








PROPOSED CCN  
AMENDMENT No. AREA 6  
23 ACRES ±



158

W. C.R. 1255

W. C.R. 60

**LEGEND**



PROPOSED CCN AMENDMENT AREA



**ENPROTEC/HIBBS & TODD, INC.**  
ENVIRONMENTAL AND CIVIL ENGINEERING  
1110 Westland/11th St. 110  
682-691-6200  
Greenville, SC 29615  
PE Reg. No. 1111  
P.E. Firm Registration No. 02592  
TSP/LA Firm Registration Nos. 10011900 & 10007300

**PROPOSED WATER CCN  
AMENDMENT AREA 6  
CITY OF MIDLAND  
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019

