Draft Environmental Assessment

SH 105, Houston District

SH 105 (From 10th Street in Conroe to Business 105)

CSJs: 0338-04-060, 0338-04--065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

Montgomery, San Jacinto, and Liberty Counties, Texas

December 2018

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.

Submitted pursuant to 42 U.S.C § 4321 et seq.

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LIST OF ACRONYMS

-A-	
AADT	Average Annual Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
AIRSAFS	Aerometric Information Retrieval System/Air Facility Subsystem
AJD	Approved Jurisdictional Determination
ALU	Aquatic Life Use
AOI	Area of Influence
APE	Area of Potential Effects
AST	Above Ground Storage Tank
ASTM	American Society for Testing and Materials
-B-	
BMPs	Best Management Practices
BNSF	Burlington Northern Santa Fe
-C-	
CBRA	Coastal Barrier Resources Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CGP	Construction General Permit
CMAQ	Congestion Management Air Quality
CMP	Congestion Management Process
CO	Carbon monoxide
CR-3	Texas Peace Officer's Crash Reports
CSJ	Control-Section-Job
CWA	Clean Water Act
-D-	
dB	decibel
dB(A)	A-weighted decibel
-E-	
EA	Environmental Assessment

EC	Federal Engineering Institutional Control Sites
ECOS	Texas Environmental Conservation Online System
EIS	Environmental Impact Statement
EJ	Environmental Justice
EMST	Ecological Mapping Systems of Texas
ENV	TxDOT Environmental Affairs Division
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EPICS	Environmental Permits, Issues, and Commitments
ETJ	Extra Territorial Jurisdiction
-F-	
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FM	Farm-to-Market Road
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
FRSTX	Facility Registry System of Texas
FPPA	Farmland Protection Policy Act
FR	Federal Register
FTA	Federal Transit Administration
FWCA	Fish and Wildlife Coordination Act
-G-	
GLO	General Land Office
GWCC	Groundwater Contamination Cases
-H-	
H-GAC	Houston-Galveston Area Council
-I-	
ICIS	Integrated Compliance Information System [formerly DOCKETS]
IH	Interstate Highway
IHW	Industrial and Hazardous Waste Corrective Action
IP	Individual Permit
IPaC	Information for Planning and Consultation
ISA	Initial Site Assessment

-J-

-K-

-L-

L_{eq}	average or equivalent sound level
LEP	Limited English Proficiency
LIENS	TCEQ Liens
LOS	Level of Service
LPG	Liquefied Petroleum Gas
LPST	Leaking Petroleum Storage Tank
LWCF	Land and Water Conservation Fund

-M-

MBTA	Migratory Bird Treaty Act
MMPA	U.S. Marine Mammal Protection Act
MOU	Memorandum of Understanding
mph	miles-per-hour
MPO	Metropolitan Planning Organization
MS4	Municipal Separate Storm Sewer System
MSAT	Mobile Source Air Toxics
MTP	Metropolitan Transportation Plan

-N-

NA/MA	Nonattainment or Attainment-Maintenance Area
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NCHRP	National Cooperative Highway Research Program
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPL	National Priorities List
NOA	Notice of Availability
NOI	Notice of Intent
NOV	Notice of Violations
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetland Inventory

-O-

OHWM	Ordinary High Water Mark
-P-	
PA	Programmatic Agreement
PALM	Potential Archeological Liability Map
PCSR06	Permit Compliance System
PJD	Preliminary Jurisdictional Determination
PM	Particulate Matter
PS&E	Plans, Specifications, and Estimates
PST	Petroleum Storage Tank
PWC	Parks and Wildlife Code
-Q-	
-R-	
R	receiver
RCRANGR06	Resource Conservation and Recovery Act- Non-Generator
RODS	Record of Decision System
RR	Railroad
ROW	right-of-way
RSA	Resource Study Area
RTP	Regional Transportation Plan
-S-	
SEMS	Superfund Enterprise Management System
SFLIENS	CERCLIS (Superfund) Liens
SGCN	Species of Greatest Conservation Need
SH	State Highway
SHNF	Sam Houston National Forest
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SOV	Single Occupancy Vehicle
STAA	Surface Transportation Authorization Act
SW3P	Stormwater Pollution Prevention Plan
-T-	
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TDPS	Texas Department of Public Safety

TERP	Texas Emissions Reduction Plan
THC	Texas Historical Commission
TIP	Transportation Improvement Program
TMDL	Total Maximum Daily Loads
TPDES	Texas Pollutant Discharge Elimination System
TPWD	Texas Parks and Wildlife Department
TSS	Total Suspended Solids
TTS	Texas Trunk System
TxDOT	Texas Department of Transportation
TXNDD	Texas Natural Diversity Database
-U-	
US	U.S. Highway
USACE	U.S. Army Corps of Engineers
USC	U. S. Code
USCG	U.S. Coast Guard
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USIBWC	U.S. International Boundary and Water Commission
UST	Underground Storage Tanks
-V-	
vmt	vehicle miles traveled
vpd	vehicles per day
-W-	
-X-	
-Y-	
-Z-	

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1.0 INTRODUCTION

The Texas Department of Transportation (TxDOT) Houston District proposes to reconstruct and widen State Highway (SH) 105 from 10th Street in Conroe to Business 105 near Cleveland. The proposed project is located in Montgomery, San Jacinto, and Liberty counties, Texas (**Appendix A**). The proposed project is approximately 20 miles in length, passing through the cities of Conroe and Cut and Shoot, the unincorporated communities of Security and Fostoria, and the extraterritorial jurisdiction (ETJ) of the city of Cleveland. Approximately 45 acres of additional right-of-way (ROW) would be required to construct the proposed project with a typical proposed ROW width ranging from 130 to 180 feet and a maximum proposed ROW width of 280 feet at Peach Creek. The proposed project location can also be seen on a U.S. Geological Survey (USGS) topographic map in **Appendix A.**

This Environmental Assessment (EA) has been developed in order to study the potential environmental consequences of constructing the proposed project and determine whether such consequences warrant preparation of an Environmental Impact Statement (EIS). The EA is organized to provide concise information drawing from technical memoranda that support the findings within the EA. Currently the proposed project is identified as having State funding per the 2040 Regional Transportation Plan (RTP); however, TxDOT is considering other funding sources for the proposed project, including federal funds. This document has been prepared to comply with TxDOT's environmental review rules and the National Environmental Policy Act (NEPA) (42 U.S. Code [USC] 4321 et seq.), as the proposed project may utilize federal funding. This document is also prepared pursuant to the requirements of the Council on Environmental Quality (CEQ) regulations in *Implementing the Procedural Provisions of NEPA* (40 Code of Federal Regulations [CFR] Parts 1500-1508), the Federal Highway Administration (FHWA) regulations *Environmental Impact and Related Procedures* (23 CFR Part 771), and Texas Administrative Code (TAC) Title 43, Part 1, Chapter 2, *Environmental Review of Transportation Projects*.

The Notice of Availability (NOA) of the EA will be published on TxDOT's website located at www.txdot.gov under "Inside TxDOT," "Get Involved," and "About Public Hearings and Meetings". Interested parties and stakeholders, including the applicable Metropolitan Planning Organization (MPO), which is the Houston-Galveston Area Council (H-GAC) for this proposed project, will be notified via email about the availability of the document and how to access it.

Written comments can be submitted through the project website, by email to HOU-PIOWebMail@txdot.gov, or mailed to: TxDOT Houston District, Attn: Director of Project Development, P.O. Box 1386, Houston, Texas 77251-1386.

TxDOT will thoroughly consider all comments submitted during the comment period. Based on the analysis conducted in this EA and comments received during the comment period, TxDOT will determine whether the potential environmental effects warrant the preparation of an EIS. If TxDOT determines that there are no significant adverse effects, it will prepare and sign a Finding of No Significant Impact (FONSI), which will be made publicly available.

2.0 PROJECT DESCRIPTION

2.1 Existing Facility

Within the proposed project limits, SH 105 generally consists of a two-lane undivided facility (one 12-foot lane in each direction) with 11-foot outside shoulders. A small section of the existing facility, located at the western terminus of the proposed project, approximately 0.66-mile from 10th Street to Farm-to-Market Road (FM) 1314, typically consists of four 11-foot travel lanes (two lanes in each direction), no shoulders and a 12-foot continuous two-way turn lane, which transitions into four 12-foot travel lanes (two lanes in each direction), no shoulders and a 14-foot continuous two-way turn lane.

The existing ROW width ranges from 80 feet at the western project boundary in Conroe but is typically 120 to 150 feet throughout the length of the proposed project. The posted speed limit varies from 30 to 55 miles-per-hour (mph) in the urban sections (10th Street to Penny Road) and 55 to 65 mph in the rural sections (Penny Road to Business 105).

Project photographs can be seen in **Appendix B** and the existing typical section can be seen in **Appendix D**.

2.2 Proposed Facility

The Build Alternative (**Alternative 6**), which is recommended as the Preferred Alternative, would reconstruct and widen the existing two-lane undivided facility to a four-lane facility with a continuous two-way turn lane. SH 105, from 10th Street in Conroe to Business 105 near Cleveland, would be reconstructed and widened to the north and south. The proposed project would provide sidewalks and bicycle accommodations along the north and south sides of SH 105 for the entire length of the proposed project. The proposed project includes a curb and gutter system along approximately 75 percent of the proposed project with open ditches along the remaining easternmost length of the proposed project. The proposed project is described in further detail below. The proposed project location maps, schematic, and typical sections can be seen in **Appendix A**, **C**, and **D**, respectively.

From 10th Street in Conroe to Farm-to-Market Road (FM) 1485:

- Four travel lanes; one 12-foot inside lane in each direction and one 15-foot outside shared use lane in each direction;
- A 16-foot continuous two-way turn lane;
- A 6-foot sidewalk along the north and south sides of SH 105;
- Bicycle accommodations within the 15-foot shared use lane along the north and south sides of SH 105.

From FM 1485 to 0.50-mile west of Lee Turner Road:

- Four travel lanes; two 12-foot inside lanes in each direction;
- One 12-foot outside shoulder in each direction;
- An 18-foot continuous two-way turn lane;
- A 2-foot curb and gutter system along the north and south side of SH 105;
- A 5-foot sidewalk along the north and south sides of SH 105;
- Bicycle accommodations within the 12-foot outside shoulder along the north and south sides of SH 105.

From 0.50-mile west of Lee Turner Road to Business 105 near Cleveland:

- Four travel lanes; two 12-foot inside lanes in each direction;
- One 12-foot outside shoulder in each direction;
- A 16-foot continuous two-way turn lane;
- An open ditch system along the north and south sides of SH 105;
- A 5-foot sidewalk along the north and south sides of SH 105;
- Bicycle accommodations within the 12-foot outside shoulder along the north and south sides of SH 105.

Typically, 20 feet of additional ROW width would be required from the north and south sides of SH 105 to implement the proposed project (approximately 45 acres of additional ROW in total). TxDOT would be responsible for the ROW acquisition.

The proposed speed limit would vary from 45 mph to 60 mph. The proposed project would not be tolled. The construction would be phased and is anticipated to begin in 2021. The proposed SH 105 project is estimated to be open for traffic in 2027.

The SH 105 roadway, within the proposed project limits, is listed with a functional classification of Category 3-Principal Arterial. According to FHWA, a Principal Arterial roadway can include freeways, multilane highways, and other important roadways that supplement the Interstate Highway (IH) system. They connect, as directly as practicable, the Nation's principal urbanized areas, cities, and industrial centers. Arterial roadways deliver traffic from a collector road to freeways or expressways, and between urban centers at the highest level of service (LOS) possible.

Federal regulations require that federally funded transportation project have logical termini, 23 CFR 771.111(f)(1). Simply stated, this means that a project must have rational beginning and end points. Those end points may not be created simply to avoid proper analysis of environmental impacts. Logical termini for the proposed project are 10th Street in Conroe (west end of the project) and Business 105 near Cleveland (east end of the project). The proposed project limits can be seen in **Appendix A.**

Federal regulations require that a project have independent utility and be a reasonable expenditure even if no other transportation improvements are made in the area, 23 CFR 771.111(f)(2). This means a project must be able to provide benefit by itself, and that the project not compel further expenditures to make the project useful. Stated another way, a project must be able to satisfy its purpose and need with no other projects being built.

SH 105 traverses through the heart of the city of Conroe, is a travel route to Lake Conroe west of the proposed project and would be a route for travelers to the future (under construction) Grand Texas theme park, which is located south of the proposed project. In Conroe, 10th Street has a functional classification of urban minor arterial. Business 105 has a functional classification of rural principal arterial. The terminus of 10th Street was also selected for the following reasons: the proposed project improvements extend west of FM 1314 with 10th Street as the next cross street that connects to a larger road to the north (Airport Road) and SH 105 west of 10th Street splits into a one-way pair roadway with no median and traverses through the city of Conroe, then the one-way pairs merge together west of North Frazier Street to provide a four-lane roadway (two-lanes in each direction) to IH 45. The terminus of Business 105 was also selected, as there are minimal traffic generators between Business 105 and U.S. Highway (US) 59 in Cleveland. This area is rural in nature, containing one church east of Business 105, wooded areas, and pastureland. The review of direct environmental impacts was

conducted within the proposed project limits; however, indirect and cumulative impacts were analyzed beyond the proposed project limits. Because the project stands alone, it cannot and does not irretrievably commit federal funds for other, future transportation projects.

Federal law prohibits a project from restricting consideration of alternatives for other reasonably foreseeable transportation improvements, 23 CFR 771.111(f)(3). This means that a project must not dictate or restrict any future roadway alternatives.

The proposed project between 10th Street and Business 105 would provide an effective transportation facility with independent utility in that the proposed project would meet all aspects of the purpose and need without having to construct any additional improvements at either project terminus. Furthermore, the proposed project would not restrict the consideration of other foreseeable transportation improvements in the region.

Additionally, a portion of SH 105, from FM 1484 to Business 105, has been designated a Texas Trunk System (TTS) highway. The TTS is a plan to connect all cities with a population of 20,000 or more with a four-lane divided facility. The TTS will include and complement the Federal highway system. The completion date of the TTS is subject to the availability of funding but is targeted for the year 2020. Portions of the SH 105 facility east and west of the proposed project and portions of US 59 and IH 69 are also designated as TTS highways. A map of the TTS within the project area can be seen in **Appendix F.**

The *H-GAC 2040 Regional Transportation Plan* (RTP) was found to be in conformance by the FHWA on September 11, 2015. The proposed project is listed on page II-4 of the 2040 RTP (RTP Update 1/26/2018, constrained actions through 1/26/2018). The proposed project is also included in H-GAC's 2019-2022 Transportation Improvement Program (TIP) (Appendix D-pages D-8 and D-9). However, the proposed project is not consistent with the RTP/TIP because the following item needs to be resolved in the RTP and TIP: change the proposed project description of raised medians to a continuous two-way turn lane throughout the length of the proposed project. Final action will not be taken on this environmental document until the proposed project is consistent with a currently conforming RTP and Appendix D of the TIP. The updated RTP/TIP information will be added to the Final EA. Based on the 2040 RTP, the total project cost, including ROW acquisition and utility relocation costs, is $312,530,000. As seen in Section 1.0, the 2040 RTP identifies the State as the funding source; however, other funding sources are being considered, including federal funds. This document has been prepared to comply with TxDOT's environmental review rules and NEPA, as the proposed

project may utilize federal funding. The plan and program excerpts that list the proposed project can be seen in **Appendix E**.

3.0 PURPOSE AND NEED

The purpose of the proposed project describes the solutions that the project is trying to achieve; whereas the need for the project describes the problems that the project is trying to address.

3.1 Need

The proposed project is needed because increased and projected growth in the area has caused traffic demand to exceed the capacity of the existing roadway. The two-lane undivided roadway does not provide adequate mobility to accommodate the population growth or alleviate growing congestion, resulting in an increased number of serious and fatal accidents along the proposed project corridor (according to the Texas Department of Public Safety[TDPS]), and there is a lack of sufficient and safe turning refuge for motorists.

3.2 Supporting Facts and/or Data

Traffic Demand

The traffic data analyzed for this document was obtained from TxDOT in 2016. The traffic projections reflect growth in the project area. Due to past residential and business expansion within the proposed project area, traffic demands along SH 105 have greatly increased to date to a poor LOS. In examining projected traffic volumes, the demands will only worsen.

The proposed project was split into four sections for traffic purposes due to substantial differences in traffic volumes throughout the project corridor. **Table 3-1** identifies the Average Daily Traffic (ADT) for SH 105 within the proposed project limits. The highest ADT volume occurs in Section 3 of **Table 3-1**: 20,230 vehicles per day (vpd) for 2015 and 30,521 vpd for 2040.

Table 3-1: Average Daily Traffic

Section	Location	Year 2015 (vehicles per day)	Year 2040 (vehicles per day)
1	10th Street to FM 3083	16,105	24,365
2	FM 3083 to Loop 336	9,908	14,933
3	Loop 336 to Crockett Martin Road	20,230	30,521
4	Crockett Martin Road to Business 105	10,517	15,652

Source: Jacobs/TxDOT, 2016.

Roadway Capacity

The existing SH 105 facility is an east-west facility that serves the cities and communities of Conroe, Cut and Shoot, Cleveland, Security, and Fostoria. SH 105 also serves the surrounding cities of Willis, Panorama Village, Montgomery, Woodloch, and The Woodlands Township. The SH 105 roadway, within the proposed project limits, is listed with a functional classification of Category 3-Principal Arterial.

Traffic volume/capacity ratios are used to define the LOS of a roadway. Categories range from ratings of A through F. The range describes a progressive deterioration from A (free traffic flow; 0 to 35 percent of capacity) through F (forced or breakdown traffic flow). According to TxDOT's *Directional Two-Lane Highway Segment Worksheet* prepared on October 28, 2016, the existing SH 105 roadway from 10th Street to Business 105 is currently functioning at a LOS E (unstable flow, operating at capacity; flow becomes irregular and speed varies rapidly because there are virtually no usable gaps to maneuver in the traffic stream and speeds rarely reach the posted limit). The existing SH 105 roadway does not meet current traffic demands and would not meet future traffic demands if improvements are not implemented.

Population Growth

Table 3-2 presents population trends from 2015 to 2040 for counties and cities in and around the proposed project limits. As is the case in the SH 105 corridor, population growth often leads to increased traffic volumes and demand both regionally and locally.

Table 3-2: Regional Growth Forecast

Geographic Area	2015			2040			2015-2040 Change (Percent)		
	Population	Households	Employment	Population	Households	Employment	Population	Households	Employment
Montgomery County	554,986	206,540	169,158	1,272,206	518,602	278,482	129.2	151.1	64.6
San Jacinto County	29,386	-	-	45,924	-	-	56.3	-	-
Liberty County	73,275	26,387	14,348	171,284	69,214	27,287	133.8	162.3	90.2
City of Conroe	68,854	24,723	32,399	105,616	40,650	34,695	58.0	64.4	7.1
City of Cleveland	7,059	2,635	4,203	9,844	3,871	4,410	39.5	46.9	4.9

Source: H-GAC, 2015 Q2 Regional Growth Forecast (2015 and 2040). Accessed May 2016. http://www.h-gac.com/community/socioeconomic/2040-regional-growth-forecast/default.aspx.

Source: Texas State Data Center. Assumes 2000-2010 Growth Scenario. http://osd.texas.gov/Data/TPEPP/Projections/Tool?fid=BB0F46F1125A4D92A24E954DBBEE9A29

Note: San Jacinto County is not in the H-GAC planning area. Texas State Data Center data was used for San Jacinto County and only contained total population data.

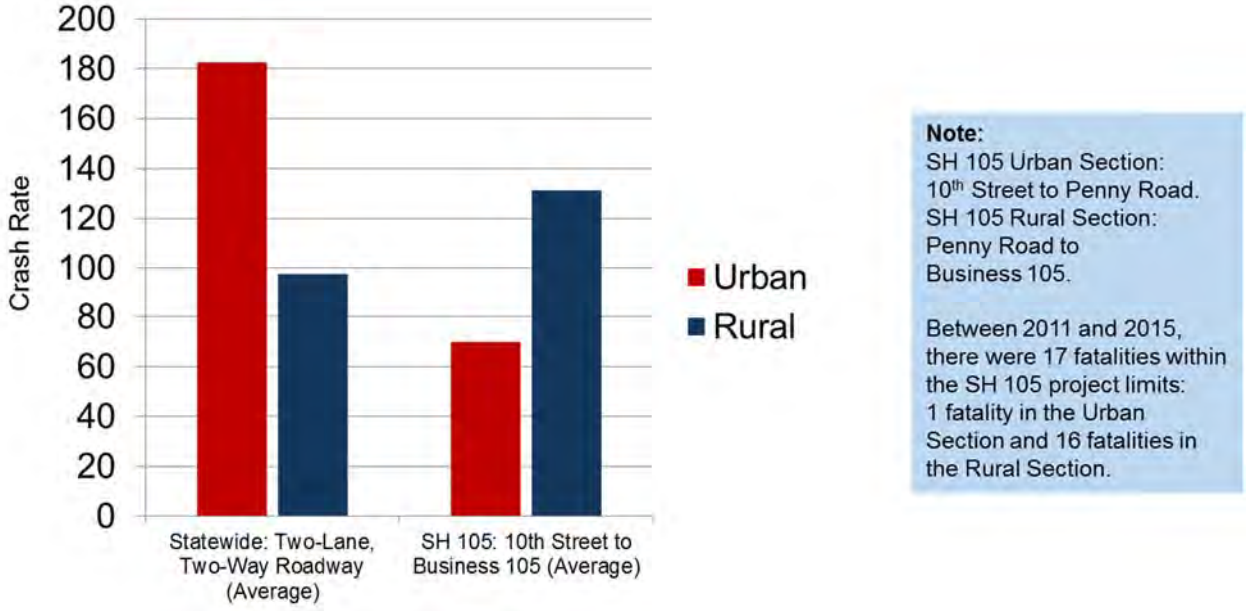
From a regional perspective, Liberty and Montgomery counties are projected to experience the largest population growth from 2015 to 2040 (in terms of percent increase); however, San Jacinto County and the cities of Conroe and Cleveland would also experience a moderate rate in population growth. With the exception of San Jacinto County, where data is unavailable, this trend extends to household and employment growth rates for the same areas. The overall population growth regionally, particularly within the counties and cities noted above, currently contributes to and will continue to increase travel demand along SH 105 within Montgomery, San Jacinto, and Liberty counties.

Safety

Highway safety plays a major role in determining the need for highway improvements. According to traffic crash rates obtained from TDPS, SH 105 has experienced a substantial number of accidents and is anticipated to continue to do so in its current design. Unlike other sections of SH 105, the section east of Conroe and just west of Cleveland is a two-lane roadway. This section has narrow shoulders with open ditches on either side.

Figure 3-1 below identifies traffic crash rate data along the statewide highway system and within the proposed project limits. The information was obtained by TxDOT from the Texas Peace Officer's Crash Reports (CR-3). Although the traffic crash rates are lower in the urban areas of SH 105 than the statewide average for a comparable roadway, the traffic crash rates are higher than the statewide average for the rural areas of SH 105.

Figure 3-1: Traffic Crash Rates (2011 to 2015)



Source: Jacobs, 2018.

Note: Traffic crash rates are based on the number of crashes per 100 million vehicle-miles-traveled. Information represents reportable data collected from Texas Peace Officer's Crash Reports (CR-3).

Table 3-3 below presents traffic fatality numbers along SH 105 within the proposed project limits per H-GAC and CR-3 reports. It should be noted that the H-GAC report identifies traffic fatalities between Loop 336 and US 59 in Cleveland, which does not include 10th Street to Loop 336 and extends east of the project terminus from Business 105. As seen in **Table 3-3**, there have been 54 fatalities between 2003 and 2015, with 17 of the fatalities occurring between the period from 2011 through 2015.

Table 3-3: Traffic Fatalities

*SH 105: Loop 336 to US 59 in Cleveland	
Facility Year	Total Fatalities
2003	2
2004	7
2005	3
2006	3
2007	5
2008	9
**SH 105: Loop 336 to US 59 in Cleveland	
2009	3
2010	5
2011	8
2012	2
2013	4
2014	0
2015	3
TOTAL	**54**

Source: *2003-2008 data obtained from H-GAC April 14, 2010 letter as seen in **Appendix G**.
**2009-2015 data obtained from TxDOT from the Texas Peace Officer's Crash Reports (CR-3).

3.3 Purpose

The purpose of the proposed project is to improve safety, operational efficiency, and travel times; to accommodate growth along SH 105 from 10th Street in Conroe to Business 105 near Cleveland; and reduce the number of traffic accidents and fatalities. Along many sections in the proposed project area, SH 105 is experiencing considerable traffic congestion and a substantial number of accidents, which are anticipated to increase in future years. **Table 3-4** summarizes the purpose and need of the proposed project.

Table 3-4: Summary of Purpose and Need

SH 105: 10th Street in Conroe to Business 105 near Cleveland	
Desired Outcome (Purpose)	Condition to be Addressed (Need)
Improve safety, operational efficiency, and travel times along SH 105	Increased and projected growth in the area has caused traffic demand to exceed the capacity of the existing roadway
Accommodate growth along SH 105	The two-lane undivided roadway does not provide adequate mobility to accommodate the population growth or alleviate growing congestion
Reduce the number of traffic accidents and fatalities	Current roadway lacks sufficient and safe turning refuge for motorists

Source: Jacobs, 2018

4.0 ALTERNATIVES

The process used to develop the proposed project alternatives followed the procedural provisions of NEPA, the CEQ Regulations, 23 CFR 771, and the FHWA Technical Advisory 6640.8A in developing appropriate alternatives along SH 105 from 10th Street in Conroe to Business 105 near Cleveland. The alternative analysis included the development and understanding of existing conditions and features based on color infrared and traditional aerial photography review, environmental records review, topographic map reviews, review of National Wetland Inventory (NWI) maps, review of soils, and site visits to identify the presence of environmental and engineering constraints.

Using a systematic, interdisciplinary approach, TxDOT used the purposes of the proposed project, public input, and environmental impact considerations to develop and evaluative the following six alternatives.

- Alternative 1: No Build Alternative
- Alternative 2: Create New Location Roadway
- Alternative 3: Widen to Four-Lane Undivided Roadway
- Alternative 4: Widen Primarily to the North to Four-Lane Divided Roadway
- Alternative 5: Widen Primarily to the South to Four-Lane Divided Roadway
- Alternative 6: Widen to the North and South to Four-Lane Divided Roadway

As explained below, Alternative 6 is the Preferred Alternative and, along with the No Build Alternative, is the alternative that is further evaluated in the EA. Alternatives 2-5 were eliminated from further consideration for reasons stated below in Section 4.3.

4.1 Build Alternative

Alternative 6: Widen to the North and South to a Four-Lane Divided Roadway (the preferred Build Alternative) would meet the proposed project's purpose and need for increased capacity, mobility, and safety of the roadway.

In response to comments received from the December 1, 2015 Public Meeting, the proposed project consists of a four-lane roadway with a continuous two-way turn lane. SH 105, from 10th Street in Conroe to Business 105 near Cleveland, would be reconstructed and widened to the north and south. A sidewalk is proposed on both sides of SH 105 for the entire length of the proposed project. Bicycle accommodations would be located in the shared use lanes and the outside

shoulders. The proposed project includes a curb and gutter system along approximately 75 percent of the proposed project with outside shoulders and open ditches along the remaining easternmost length of the proposed project.

There are no detention ponds, or temporary or permanent easements required for construction of the proposed project.

The proposed speed limit is separated into three sections as seen below.

1. 10th Street to FM 1484 (Urban Street): 45 mph
2. FM 1484 to west of the Burlington Northern Santa Fe (BNSF) Railroad (RR) Bridge (Urban Roadway): 50 mph
3. West of the BNSF RR Bridge to Business 105 (Multi-Lane Rural Highway): 60 mph

Due to substantial differences in traffic volumes, the proposed project was split into four sections for traffic purposes. **Table 3-1** identifies the ADT for SH 105 within the proposed project limits. The highest ADT volume is 30,521 vpd for 2040.

Typically, 20 feet of additional ROW width would be required from the north and south sides of SH 105 to implement the proposed project (approximately 45 acres of additional ROW in total). TxDOT would be responsible for the ROW acquisition.

The proposed project schematic can be seen in **Appendix C**. The proposed typical sections can be seen in **Appendix D**.

4.2 No Build Alternative

Under the No Build Alternative (**Alternative 1**), the existing roadway would not be reconstructed or widened. Normal routine maintenance would continue. Typical maintenance that would occur includes seal coats and overlays (asphalt layer followed with rock aggregate), minor rehabilitation (reworking the top of the roadway surface followed by an overlay), pavement edge repair, and other activities, such as signing, striping, and patchwork.

The No Build Alternative is typically used as a baseline condition for comparison purposes. The No Build Alternative would not address existing or increased traffic demands or regional connectivity. This alternative would not meet the purpose and need of the proposed project;

therefore, based on this and the remaining alternatives considered but eliminated from further consideration, **Alternative 6** is the recommended Preferred Alternative.

4.3 Preliminary Alternatives Considered but Eliminated from Further Consideration

In 2003, Alternatives 2 and 3 were considered and eliminated from further detailed analysis early in the process. The reasons were based on the principal design requirements, desired design benefits, and environmental protection and enhancement requirements identified for the proposed project.

Alternative 2: Create a New Location Roadway was eliminated from further detailed analysis because it did not avoid or minimize impacts. Creating a new location roadway would result in substantially greater adverse social, economic, and environmental impacts than the other Build Alternatives that utilize the existing roadway.

Alternative 3: Widen to a Four-Lane Undivided Roadway was eliminated from further detailed analysis because it did not meet the desired design benefit of improved safety.

4.4 Alternatives Studied in Further Detail

In 2003, three additional conceptual alignment alternatives (**Alternatives 4, 5, and 6**) were investigated based on the known constraints at that time. The primary focus of the preliminary engineering studies was the identification of a preferred Build Alternative that would avoid known constraints to the greatest extent possible and satisfy the purpose and need of the proposed project. The alternatives that did not avoid known constraints nor satisfy the purpose and need of the proposed project were eliminated from detailed analysis. Public meetings were held in 2003 and 2004 to present **Alternatives 4, 5, and 6**. A comparison of the 2004 alternatives studied in further detail can be seen below in **Table 4-1.**

Alternative 4: Widen Primarily to the North to a Four-Lane Undivided Roadway was eliminated from consideration because it would impact greater resources than Alternative 6: greater residential and commercial displacements, greater roadside picnic sites displacements, the acquisition of one public park/parkland site, greater areas of potential wetlands, and greater acreage of woody vegetation. Alternative 4 would require ROW from the Cut and Shoot Town Park (Public Park). The portion of Cut and Shoot Town Park, which would be impacted, consists of a five-foot wide strip of maintained vegetation along the southern boundary of the park. Impacts to the public park would require a property that qualifies as Section 4(f) and would require a Section 4(f) analysis. Section

4(f) states that land from a publicly owned park, recreation area, wildlife or waterfowl refuge, or land of a historic site can be used for a transportation project only if 1) there are no feasible and prudent alternatives to the use of these resources, and 2) all possible planning has been taken to minimize harm to the resource. As there were alternatives that did not impact Section 4(f) property, Alternative 4 was eliminated from consideration.

Alternative 5: Widen Primarily to the South to a Four-Lane Divided Roadway was eliminated from consideration because it would impact greater resources than Alternative 6: greater number of residential and commercial displacements, greater roadside picnic sites displacements, greater areas of potential wetlands, and greater acreage of woody vegetation.

Alternative 6: Widen to the North and South to a Four-Lane Divided Roadway *was chosen as the preferred Build Alternative in 2004 because it would impact less resources than Alternatives 4 and 5: lesser number of residential and commercial displacements, lesser number of roadside picnic site displacements, no ROW acquisition from public parkland, lesser potential wetland areas, and lesser acreage of woody vegetation. Alternative 6 meets the purpose and need of the proposed project.*

Table 4-1: 2004 Comparison of Potential Impacts for Alternatives Studied in Further Detail

COMPARISON OF POTENTIAL IMPACTS [1] SH 105: 10TH STREET TO BUSINESS 105 ALTERNATIVES				
ITEM	ESTIMATED ITEM VALUES			
	Alternative 4 (North) Impacts	Alternative 5 (South) Impacts	Alternative 6 (North & South) Impacts	Alternative 1 No-Build Impacts
Displacements (sites)	26	25	17	0
Residential (sites)	11	9	5	0
Commercial (sites)	11	12	9	0
Churches (sites)	2	2	2	0
Roadside Picnic Sites	2	2	1	0
Parkland (Sites)	1	0	0	0
Wetland (NWI mapped areas)	36	33	32	0
Woody Vegetation (Acres)	19	22	7.4	0

Jacobs, 2018-Derived from 2003 Alternatives Analysis taken from the 2004 SH 105 Environmental Assessment.

1. Impacts were determined analyzing the new additional ROW.

Note: Alternatives were seen at the 2003 and 2004 Public Meetings and documented in the associated Public Meeting Summary Reports.

From 2004 to 2015, the proposed project was delayed twice due to funding constraints.

In 2015, the proposed project design presented at the December 1, 2015 Public Meeting included reconstructing and widening the existing two-lane undivided roadway to a four-lane divided roadway with shared use lanes, sidewalks, and a raised median from 10th Street to Penny Road. The remaining roadway would have typically consisted of a four-lane roadway with outside shoulders, sidewalks, and a center depressed median from Penny Road to Business 105 near Cleveland. **Alternative 6** was modified, as a result of comments from the December 1, 2015 Public Meeting.

Due to concerns from the public, the Cut and Shoot Volunteer Fire Department, and Montgomery County concerning the raised medians and divided roadway, the proposed project design was revisited and replaced with the current Build Alternative (6) as seen in **Section 4.1**.

From 2015 to 2018, the environmental process was on hold due to design revisions.

In 2018, comprehensive reviews of the proposed project were conducted. Although the surrounding area of the proposed project is growing rapidly, development within the proposed project limits has not been substantial.

The previously presented 2004 alternatives eliminated from detailed analysis, (**Alternatives 4 and 5**) were evaluated again. The picnic areas that were previously identified as displacements were removed from the roadway during the 2015-2018 delay. The picnic areas were removed at the request of local and state government officials, as they were not being used for their intended purpose. Further information on removal of the picnic areas can be seen in Section 5.1.

Alternatives 4, 5, and 6 are discussed below and can be seen in **Table 4-2**.

Alternative 4: Widen to the North to a Four-Lane Undivided Roadway was eliminated from consideration because it would impact greater resources than Alternative 6: greater commercial displacements, the acquisition of one public park/parkland site, greater impacts to potential wetland areas, and greater woody vegetation impacts. Alternative 4 would require ROW from the Cut and Shoot Town Park (Public Park). The portion of Cut and Shoot Town Park, which would be impacted, consists of a five-foot wide strip of maintained vegetation along the southern boundary of the park. Impacts to the public park would require a property that qualifies as Section 4(f) and would require a Section 4(f) analysis. Section 4(f) states that land from a publicly owned park, recreation area, wildlife or waterfowl refuge, or land of a historic site can be used for a transportation project only if 1) there are no feasible and prudent alternatives to the use of these

resources, and 2) all possible planning has been taken to minimize harm to the resource. As there are alternatives that do not impact Section 4(f) property, Alternative 4 was eliminated from consideration.

Alternative 5: Widen to the South to a Four-Lane Divided Roadway was eliminated from consideration because it would impact greater resources than Alternative 6: greater commercial displacements, including a structure from the Tennessee Gas Pipeline Company, the displacement of one Spanish language church; the Iglesia Bautista Ind El Calvario church, and greater woody vegetation impacts.

Alternative 6: Widen to the North and South to a Four-Lane Divided Roadway *is chosen as the preferred Build Alternative because it would impact less resources than* ***Alternatives 4 and 5****: lesser commercial displacements, including no ROW acquisition from the Tennessee Gas Pipeline Company, no church displacements, no ROW acquisition from public parkland, and lesser impacts to woody vegetation. Alternative 6 meets the purpose and need of the proposed project.*

Table 4-2: 2018 Comparison of Potential Impacts for Alternatives Studied in Further Detail

COMPARISON OF POTENTIAL IMPACTS [1] SH 105: 10TH STREET TO BUSINESS 105 ALTERNATIVES				
ITEM	ESTIMATED ITEM VALUES			
	Alternative 4 (North) Impacts	Alternative 5 (South) Impacts	Alternative 6 (North & South) Impacts	Alternative 1 No-Build Impacts
Displacements (sites)	18	27	25	0
Residential (sites)	1	6	6	0
Commercial (sites)	17	17	14	0
Ancillary (shed, signs, etc.)	0	3	5	0
Churches (sites)	0	1	0	0
Parkland (sites)	1	0	0	0
Wetlands (NWI mapped areas)	47	44	46	0
Woody Vegetation (acres)	15	16	4.6	0

Jacobs, 2018: 1. Impacts were determined analyzing the new additional ROW.
Note:
1) the roadside picnic areas listed in Table 4-1 were removed by TxDOT from the roadway and will not be replaced.
2) the woody vegetation was calculated using the Ecological Mapping Systems of Texas (EMST) which was not available in the 2004 comparison seen in Table 4-1.

5.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

Project objectives, environmental issues, and public involvement were a primary focus in the planning, design, and environmental analysis process. In support of this EA, **Table 5-1** lists the technical reports that have been submitted and are available for public review at TxDOT's Houston District office. The proposed project was evaluated for both direct and encroachment-alteration (indirect) effects and no encroachment-alteration effects were identified for any subject area.

Table 5-1: List of Technical Reports Cited

Technical Report
Air Quality Technical Report
Biological Resources Technical Report
Community Impacts/Risk Assessment Forms
Indirect and Cumulative Technical Report
Report for Historical Studies Survey
Archeological Background Study Technical Report
Hazardous Materials Technical Report
Traffic Noise Technical Report
Water Resources Technical Report
Wetland Assessment Technical Report

Source: Jacobs, 2018

Copies of the submitted technical reports are available for review and copy at TxDOT's Houston District office located at 7600 Washington Avenue, Houston, TX 77007.

Based on these reports, project scoping efforts, and project analysis, it was determined that the Build Alternative would have no impacts on the following resource categories: farmlands, groundwater, wild and scenic rivers, coastal areas, Section 4(f) properties, Section 6(f) properties, and Chapter 26 properties. However, the Build Alternative could affect a number of other resources as detailed in the noted technical reports and summarized in the following sections. For the purpose of this EA and unless otherwise noted, the project area for evaluating proposed project impacts is defined as both the existing and proposed ROW that extends throughout the proposed project limits.

5.1 Right-of-Way/Displacements

Build Alternative

There are no permanent or temporary easements required as part of the proposed project.

Approximately 45 acres of additional ROW would be required to construct the proposed project. There is a total of 25 potential displacements associated with this proposed project: Six (6) residential properties, 14 commercial properties, and five (5) ancillary structures. In addition, there are three (3) commercial properties where acquisition of the majority of the parking area is required and there are 24 encroachments into the existing TxDOT ROW, including five (5) locations with memorial markers. During the ROW acquisition process, all encroachments would be removed from TxDOT's existing and proposed ROW. The schematic can be seen in **Appendix C**. The ROW requirements are detailed below and can be seen in **Appendix F.**

Potential Residential Displacements

1. Single family structure
2. Mobile home structure
3. Single family structure
4. Single family structure
5. Mobile home structure
6. Mobile home structure-abandoned

Potential Commercial Displacements

1. Audio Autos-auto-oriented (formerly S&L BBQ and JJ's 24/7 Towing)
2. R&R Salvage-auto-oriented
3. Weisinger Water Well Yard No. 2-auto-oriented
4. Evan's Transmissions-auto-oriented
5. Weisinger Water Well-auto-oriented
6. All-Star Commercial/ACR Custom Granite-real estate sales
7. Nixon Mobile Homes-mobile home business
8. It's Muffler Time-auto-oriented
9. King's Fuel Gas Station-oil and gas related
10. Inspection Plus-auto-oriented
11. Universal Equipment Repair-auto oriented
12. CG's Beauty Retail Shop-home retail
13. Shell gas station-fuel pumps only-oil and gas-related

14. Equine Equipment-equestrian equipment

Potential Ancillary Displacements

1. Carport-associated with residential mobile home
2. Shed-associated with residential mobile home
3. Shed-associated with residential mobile home
4. Shed-associated with Video Madness
5. Church sign-located at Iglesia Bautista Ind El Calvario Church

Encroachments onto the ROW that Will Be Removed

1. Garza's Tire Shop & Repair-business
2. Shed-associated with businesses
3. Complete Mobile Homes-business
4. Quality Used Furniture-business
5. Trading Center New & Used Furniture-business
6. Carpet Warehouse-business
7. Nixon Mobile Homes-business
8. Leeland Sheds (demos)-business
9. Residential-Single Family
10. Fuel Maxx/Exxon Gas Station (fuel pumps only)-business
11. Sno Cone business-business
12. CNS Discount Tobacco-abandoned-business
13. Flea Market stand-business
14. Shed associated with single family residential
15. Taqueria-business
16. Tires & More-business
17. AT&T-underground cable utility box-business
18. Residential-Mobile Home-abandoned
19. Residential-Mobile Home-abandoned
20. Memorial marker
21. Memorial marker
22. Memorial marker
23. Memorial marker
24. Memorial marker

Additional Potential ROW Acquisition from Commercial Parking Lots

1. Dependable Auto/Sergio's Lawn Service & Landscaping (entire parking lot)
2. Crystal Creek Strip Center (entire parking lot)
3. T. D. Hideaway (restaurant) (entire parking lot) -closed-for sale

It should be noted that there are two noise receivers (Section 5.14-Traffic Noise-Receiver [R]6-residences) that are located between the existing BNSF RR ROW and the existing TxDOT ROW. The parking area is located within the existing TxDOT ROW. The proposed roadway would construct a sidewalk in front of these receivers. There is no parking area behind the receivers due to the BNSF RR. Also, the metal ceiling connected to a porch associated with one of the receiver's overhangs into the existing TxDOT ROW.

Memorial markers are located throughout the proposed project on both sides of SH 105 within the existing TxDOT ROW. All memorial markers will be removed from TxDOT ROW.

Two TxDOT roadside picnic areas were identified as potential displacements within the proposed project. The first picnic area was located east of FM 1484 and west of Walker Road. The picnic area included tables and benches on the north and south sides of SH 105 at Cagle Branch. This picnic area location was counted as one potential displacement. The second picnic area was located east of Fostoria Road and west of Business 105. The picnic area included tables and benches on the south side of SH 105. However, in 2016, a request was made from local and state government officials to close the picnic area located between FM 1484 and Walker Road. The picnic area was no longer being used for the comfort and convenience of the traveling public, but rather was being used for dumping trash and other unsavory activities. TxDOT concurred with the request and closed the picnic area. In addition, TxDOT also closed the second picnic area located east of Fostoria Road and west of Business 105 to discourage the same type of activity. The two TxDOT roadside picnic areas were removed from the roadway and will not be replaced or relocated with the implementation of the proposed project. The request to close the TxDOT roadside picnic area located between FM 1484 and Walker Road can be seen in **Appendix G**.

The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 USC 4201-465, P.L. 91-646), as amended by the Uniform Relocation Act Amendments of 1987 (P.L. 100-17), known as the Uniform Act, contains specific requirements that determine the manner in which a government entity acquires private property for public use when federal funds are used for any phase of a project. TxDOT would follow the Uniform Act for the acquisition of ROW.

Consistent with the U.S. Department of Transportation (USDOT) policy, as mandated by the Uniform Act, as amended, TxDOT would provide relocation resources to all displaced persons without discrimination. TxDOT would also provide payment and services to aid in movement to a new location through its Relocation Assistance Program. All property owners from whom property is needed are entitled to receive just compensation for their land and property. Just compensation is based upon the fair market value of the property. It should be noted that the 23 encroachments listed previously would not receive relocation benefits or compensation.

A Community Impacts Assessment Technical Report Form, which includes information on potential displacements, has been completed for this proposed project and is available for public review at the TxDOT Houston District office.

All determinations regarding displacements are preliminary, and subject to change upon final design.

No Build Alternative

The No Build Alternative would not require the acquisition of ROW and, therefore, would not result in any potential displacements.

5.2 Land Use

Land use within the proposed project area is consistent with an urbanized area comprised of residential subdivisions, scattered, single residential properties, commercial properties (strip centers, gas stations, retail establishments, car dealerships, feed stores, and garden centers), light industrial businesses, and vacant land. Approximately 45 acres of additional ROW would be converted to highway ROW. Land use adjacent to the proposed project is detailed below.

- Schools adjacent to the proposed project include Stephen F. Austin Elementary School.
- There are no child or elderly care centers adjacent to the proposed project;
- There is one cemetery located adjacent to the proposed project. The Oakwood Cemetery, with an associated historical marker, is located adjacent to the proposed project at the corner of North 10th Street and SH 105.
- Churches adjacent to the proposed project include Iglesia del Nombre del Jesucristo, Centro Cristiano Libertad, First Baptist Church of Groceville, Lifestyle Community Church, Security First Baptist Church, Cowboy Church, Open Range Cowboy Church, and Iglesia Bautista Ind El Calvario.

- Fire stations adjacent to the proposed project include Cut and Shoot Volunteer Fire Stations #21 and #22. These fire stations are both considered part of Montgomery County Emergency Service District #12.
- There are no hospitals or emergency care facilities located adjacent to the proposed project.
- The Cut and Shoot Post Office, Town Hall, and Community Park are located adjacent to the proposed project on the north side of SH 105 in Cut and Shoot.
- The BNSF RR is located parallel to the proposed project.
- The Conroe Creosoting Company "Superfund Site" is located adjacent to the proposed project in the city of Conroe. The U.S. Environmental Protection Agency (EPA) has been monitoring clean up on the property since 2005 and completed their last review in 2013, with an update in July 2015. Detailed information can be seen in Section 5.13.
- There is one privately owned airport located in close proximity to the proposed project limits. The privately-owned airport is the Cut and Shoot Airport, which is located on the south side of SH 105 in the city of Cut and Shoot, approximately 0.88-mile south of SH 105. Based on current design, no airway-highway clearances are anticipated to be impacted by the proposed SH 105 project. Coordination with the Federal Aviation Administration (FAA) is not required, as coordination is required for public use airports. In addition, the public-use Lone Star Executive Airport is located 1.52 miles north of the proposed SH 105 project. Due to the distance of the airport to the proposed project, no airway-highway clearances would be impacted by the proposed SH 105 project.
- The Sam Houston National Forest (SHNF), one of four National Forests in Texas, is located 50 miles north of Houston. The forest contains 163,037 acres of land between Huntsville, Conroe, Cleveland, and Richards, Texas. Although some maps identify the SHNF as being located on either side of SH 105 within the proposed project limits, this identification is a *proclamation boundary* and includes land that is privately owned. Land owned by the SHNF in the vicinity of the proposed project area consists of one compartment that is located approximately 513 feet north of the proposed project. There would be no impacts to the SHNF as a result of the proposed project. The SHNF map can be seen in **Appendix F** and the coordination letter with the SHNF can be seen in **Appendix G**.

5.3 Farmlands

The purpose of the Farmland Protection Policy Act (FPPA), Subtitle I of Title XV of the Agricultural and Food Act of 1981 (Pub. L. 97-98), is to minimize the extent to which federal programs contribute

to the unnecessary and irreversible conversion of prime, unique, and other farmlands of statewide or local importance to non-agricultural uses.

Build Alternative

Projects considered exempt under the FPPA include those that require no additional ROW or require ROW that is developed, urbanized, or zoned for urban use. The proposed project would require additional ROW; therefore, the project is not exempt under the FPPA. The project was scored using Form AD-1006. The project scored below 60, which is the threshold for consultation with the Natural Resources Conservation Service (NRCS); therefore, it was not submitted to the NRCS for review. Further details can be found in the Biological Evaluation Form, which is available for public review at the TxDOT Houston District office.

No Build Alternative

Under the No Build Alternative, the existing infrastructure would remain as is and only normal routine maintenance would be conducted. No impacts would occur to farmlands; therefore, no coordination with the NRCS is required.

5.4 Utilities/Emergency Services

Build Alternative

Utilities such as water lines, sewer lines, gas lines, telephone cables, electrical lines, and other subterranean and aerial utilities may require minor adjustments or relocations. Aerial and/or underground utility construction would be adjusted. The required utility adjustments may or may not be provided for by the affected utility company. The extent of utility adjustments is not known at this time and would be determined during final design. Coordination of any utility adjustments would take place during the design phase and/or before construction begins. All utility adjustments would be in accordance with TxDOT, city, and county design policy guidelines. The adjustment and relocation of any utilities would be handled so that no substantial interruptions would take place while these adjustments are being made.

There would be no permanent changes in access within the proposed project limits; therefore, there would be no changes to current emergency service providers' routes. The location of emergency service providers adjacent to project corridor are identified in Section 5.2 – Land Use. In addition, the Build Alternative would improve the safety, operational efficiency, and travel times of the roadway, and increase capacity to accommodate growth in the project area. As such, the Build Alternative would not adversely affect emergency response times, but would rather provide a safer,

more efficient facility for emergency service providers to use in the performance of their various duties.

No Build Alternative

The No Build Alternative would not require any utility relocations or adjustments within the proposed project corridor and would not change current emergency service providers' routes.

5.5 Bicycles and Pedestrian Facilities

Build Alternative

The existing project corridor does not contain sidewalks or bicycle accommodations. The Build Alternative would provide a typical five-foot-wide sidewalk on both sides of SH 105, for the entire length of the proposed project. Bicycle accommodations would be located in the shared use lanes, and the outside shoulders of the proposed project, and would be of sufficient width to accommodate bicycles per TxDOT guidance.

The sidewalks and bicycle accommodations comply with TxDOT's policy for bicycle and pedestrian accommodations, are in accordance with the USDOT *Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations*, signed on March 11, 2010, Titles II and III of the Americans with Disabilities Act (ADA) of 1990 revised regulations *2010 ADA Standards for Accessible Design*, and are in accordance with the minimum requirement set by the American Association of State Highway and Transportation Officials (AASHTO) *Guide for the Development of Bicycle Facilities.*

No Build Alternative

Proposed pedestrian and bicycle accommodations do not currently exist within the proposed project corridor and would not be implemented under the No Build Alternative.

5.6 Community Impacts

A Community Impacts Assessment Technical Report was prepared for the proposed project. The technical report is available for public review at the TxDOT Houston District office. The findings are described below.

The community resources analyzed included the general characteristics of the community, community facilities, local and regional demographics and economies, access, travel patterns,

traffic patterns, potential residential and commercial displacements, community cohesion, environmental justice (EJ), and persons with Limited English Proficiency (LEP).

SH 105 traverses through the heart of the city of Conroe in an east-west direction. It is also the primary route to Lake Conroe, which is an important regional destination to the west. The businesses in the proposed project area are predominantly small and most serve the local market. Many businesses along the corridor are auto-oriented (repair, sales/rental, services, and parts). Other adjacent businesses include convenience/discount stores, restaurants/fast food, gift shops, boutiques and beauty, and hardware/home and garden businesses. There are several adjacent businesses that serve the oil and gas industry. In addition, the Grand Texas theme park is anticipated to open in April 2020. The theme park encompasses 632 acres at the junction of IH 69 (formerly US 59) and SH 242, which is south of the proposed project. The theme park would include Houston's largest amusement park, the Big Rivers Waterpark, The Grove Factory Outlets, Speedsportz Racing Park, Grand Texas Sportsplex, Grand Texas RV Resort, and a promenade featuring numerous dining, shopping, and entertainment venues. The businesses are predominantly accessed by car.

Build Alternative

There is a total of 25 potential displacements associated with this proposed project: Six (6) residential properties, 14 commercial properties, and five (5) ancillary structures. In addition, there are three (3) commercial properties where acquisition of the majority of the parking area is required and there are 24 encroachments into the existing TxDOT ROW, including five (5) memorial markers. The properties/structures can be seen in more detail below.

Potential Residential Displacements: six (6) residential properties would potentially be displaced and relocated within the proposed project corridor. Of the six (6) residential properties, three (3) are single family residences, two (2) are occupied mobile home residences, and one (1) is an abandoned mobile home residence.

Potential Residential Ancillary Displacements: three (3) ancillary structures would be potentially displaced; a carport, and two (2) sheds.

Residential Encroachments onto the ROW that Will Be Removed: four (4) residential properties contain structures that are encroaching into the existing TxDOT ROW. The enforcement of existing TxDOT ROW boundaries could impact the four (4) properties, which include 1) a single-family residence, 2) a shed associated with a single-family residence, 3) an abandoned mobile home

residence, and 4) an abandoned mobile home residence. With regard to the single-family residence, a sliver of the eastern portion of the residence is located within the existing TxDOT ROW. There is no proposed ROW within this location. The remaining three (3) structures could possibly be relocated out of the existing TxDOT ROW and onto the respective residential properties.

Potential Commercial Business Displacements: most of the businesses (8 of 14) identified for potential displacement and relocation are auto-oriented, followed by two (2) utility/oil and gas-related businesses, two (2) mobile home/real estate sales businesses, one (1) home retail businesses, and one (1) equestrian equipment provider.

Potential Ancillary Commercial Displacements: there are two (2) ancillary structures associated with commercial properties and identified as potential displacements and relocations. The structures include 1) a shed associated with a video store (Video Madness), and 2) a church sign associated with Iglesia Bautista Ind El Calvario Church (details pertaining to the church can be seen below). While these structures would need to be removed from the proposed TxDOT ROW, they could potentially be relocated onto their respective properties, as there appears to be available land.

Commercial Encroachments onto the ROW that Will Be Removed: there are 15 commercial structures and five (5) locations containing memorial markers that are currently encroaching upon the existing TxDOT ROW.

The enforcement of existing TxDOT ROW boundaries could impact eight (8) of the 15 business encroachments. The eight (8) businesses include 1) Garza's Tire Shop & Repair, 2) a shed next to Complete Mobile Homes, 3) Complete Mobile Homes (mobile home vendor), 4) Quality Used Furniture, 5) Trading Center New & Used Furniture, 6) Carpet Warehouse, 7) Fuel Maxx/Exxon Gas Station (gas pumps only), and 8) AT&T-underground cable utility box. The existing TxDOT ROW is currently being utilized as customer parking for Garza's Tire and Repair Shop, Complete Mobile Homes, Quality Used Furniture, Trading Center New & Used Furniture, and Carpet Warehouse. It should be noted that there is a shed that is located within this complex that is also encroaching into the existing TxDOT ROW. Upon enforcement of the existing TxDOT ROW boundaries, there would be no land available for customer parking due to constraints from the roadway to the north and the railroad to the south.

The remaining seven (7) business encroachments include; 1) Nixxon Mobile Homes, 2) Leeland Sheds (demos), 3) Sno Cone business, 4) CNS Discount Tobacco-abandoned, 5) a flea market

stand, 6) a Taqueria, and 7) Tires and More. These businesses are either movable structures that could possibly be relocated on the respective properties or include small sections of parking lots.

The five (5) memorial markers will be removed from the existing TxDOT ROW.

Additional Potential ROW Acquisition from Commercial Parking Lots: the proposed project's ROW acquisition could impact the majority of the parking lots of three (3) businesses including 1) Dependable Auto/Sergio's Lawn Service & Landscaping (an auto/landscaping business), 2) Crystal Creek Strip Center (a shopping center with an associated gas station), and 3) a restaurant (T.D. Hideaway). It should be noted that the restaurant (T.D. Hideaway) is closed and for sale. Coordination with these businesses would be needed to determine how the reduction in parking would impact their ability to conduct business.

Three (3) Spanish language churches are located adjacent to the proposed project where ROW acquisition is proposed: 1) Iglesia Del Nombre del Jesucristo, 2) Centro Cristiano Libertad, and 3) Iglesia Bautista Ind El Calvario. The Iglesia del Nombre del Jesucristo church is located in the front portion of Antoni's Auto on the north side of SH 105. Approximately 10 feet of ROW width would be taken at this location. The ROW acquisition would not impact the church or the church parking. The Centro Cristiano Libertad church is located on the north side of SH 105. Approximately 10 feet of ROW width would be taken at this location. The ROW acquisition would not impact the church or the church parking. The Iglesia Bautista Ind El Calvario church is located on the south side of SH 105. Approximately 15 feet of ROW width would be taken at this location. The ROW acquisition would not impact the church or the church parking; however, the ROW acquisition would impact the church sign.

Based on research, there are sufficient replacement properties for all displacements.

In conclusion, the six (6) residential displacements/relocations are not clustered in one neighborhood but are instead located throughout the proposed project corridor; as such, they will not result in an adverse impact to a particular community or effect community cohesion. In addition, adequate comparable replacement housing is present within the corridor so displaced residents could relocate within the corridor and be afforded the same amenities and access that they currently have.

The 14 commercial displacements/relocations are located throughout the corridor, so they would not adversely impact one community more than another. None of the affected businesses are major employers and none serve a specific population. There are available properties within the

proposed project corridor that are appropriately zoned so affected businesses could relocate within the proposed project corridor. If the businesses chose not to relocate within the project corridor, it is unlikely that employment would be adversely impacted because there are other comparable business types in the proposed project area.

In addition, the proposed project would enhance community cohesion by providing a safer roadway and facilities for pedestrians and cyclists, while maintaining access to adjacent properties, cross streets, and community services and facilities.

No Build Alternative

The No Build Alternative would not result in displacements or change community cohesion from the existing condition.

5.6.1 Environmental Justice

Build Alternative

Environmental Justice at the FHWA means identifying and addressing disproportionately high and adverse effects of the agency's programs, policies, and activities on minority populations and low-income populations to achieve an equitable distribution of benefits and burdens.

Environmental Justice is important because it helps to ensure full and fair participation by potentially affected communities in every phase of the transportation decision-making process. When this is accomplished, the development, construction, operation and maintenance of transportation projects should reflect an equitable distribution of benefits and burdens.

There are 849 census blocks in the study area and 181 of those report minority populations of 50 percent or more. Minority populations live throughout the study area; however, these populations are concentrated in the block groups that include the communities of Conroe and Cut and Shoot. There are no Block Groups considered as EJ based on income. The Department of Health and Human Services poverty level for a 4-person household in 2018 is $25,100. All Census Tracts adjacent to the proposed project have populations that speak English less than very well. Overall, most Limited English Proficiency (LEP) speakers (99 percent) speak Spanish. See the Community Impacts Technical Report, which is available for public review at TxDOT's Houston District office, for more details about minority, low-income, and LEP populations.

The community cohesion impacts of the proposed project would be beneficial and would be experienced by all people, including EJ and non-EJ populations alike. These benefits include the

provision of sidewalks and accommodations for bicycles and mobility improvements. Crash statistics and input from the public demonstrated that safety is an important issue that needs to be addressed by the proposed project. In addition, the public expressed a desire for safety improvements that would not diminish access. There are no permanent access or travel pattern impacts associated with the proposed project. The inclusion of a continuous two-way turn lane throughout the length of the proposed project, as opposed to the originally proposed raised medians, would separate eastbound and westbound traffic and provide a safe location from which to turn, while maintaining access to all adjacent land uses, driveways, and cross streets. Travel patterns would be maintained as the proposed project is the widening of the existing roadway with no proposed street closures.

Minority and low-income populations would be impacted by the displacement of residential and commercial properties. More residential displacements are located in non-EJ areas than EJ areas, and more commercial displacements are located in EJ areas than non-EJ areas.

In summary, there would be no disproportionately high and adverse human or environmental effects on minority or low income populations because: there is available comparable replacement properties to accommodate relocations; employment is not likely to be adversely affected as the displaced businesses are not major employers, do not serve a specific population, and the local economy includes similar types of industries/job types; and displacements would not occur in a concentrated area that would impact one community more than another. Also, the proposed project would result in community benefits (improved safety, multimodal access, and community cohesion) which would be experienced by all people.

Executive Order 13045, entitled "Protection of Children from Environmental Health Risks and Safety Risks," mandates that Federal agencies identify and assess environmental health and safety risks that may disproportionately affect children as a result of the implementation of Federal policies, programs, activities, and standards (62 FR 19883-19888, April 23, 1997). No middle schools, high schools, or day-care facilities are located adjacent to the proposed project. However, Stephen F. Austin Elementary School is located adjacent to the proposed project.

There are no adult care facilities, assisted living facilities, or adult community centers located adjacent to the proposed project.

Direct impacts on air quality and Mobile Source Air Toxics (MSAT) from the project are primarily those associated with the increased capacity and accessibility, as well as the resulting projected

increases in vehicle miles traveled (VMT). EPA's fuel and vehicle standards are projected to reduce emissions of air pollutants and MSAT, offsetting the impacts resulting from the increases in VMT. These net emissions reductions are expected to contribute to continued maintenance and improvement of air quality and MSAT levels in the area (see Section 5.12 - Air Quality).

The potential indirect impacts on air quality and MSAT are primarily related to any expected development/redevelopment resulting from project's increased accessibility or capacity to the area. However, any increased air pollutant or MSAT emissions resulting from the potential development or redevelopment of the area must meet regulatory emissions limits established by the Texas Commission on Environmental Quality (TCEQ) and EPA, as well as obtain appropriate authorization from the TCEQ. Regulatory emission limits set by TCEQ and EPA are established to attain and maintain the National Ambient Air Quality Standards (NAAQS) (which is protective of public health, including sensitive populations such as children and the elderly) by assuring any emissions sources resulting from new development or redevelopment will not cause or contribute to a violation of those standards.

Therefore, because the project's potential direct and indirect impacts on air quality and MSAT are projected to be offset by federal fuel and vehicle control programs or state and federal regulatory programs, negative impacts on air quality are not anticipated.

In summary of EO 13045, no disproportionate environmental health and safety risks to children or the elderly are anticipated as a result of the implementation of the proposed project.

No Build Alternative

The No Build Alternative is not expected to influence demographic characteristics within the project area or contribute to increased growth.

5.6.2 Limited English Proficiency

Limited English Proficiency is defined as having limited ability to read, write, speak or understand English. Title VI of the Civil Rights Act of 1964 and EO 13166 require projects to provide meaningful access to services and communications to ensure LEP persons are not discriminated against on the basis of national origin.

Build Alternative

Most LEP speakers within the proposed project area (99 percent) speak Spanish; the remaining one (1) percent of LEP speakers, in order of number of speakers, speak Chinese, Portuguese,

Tagalog, Korean, French, other Slavic languages, and Urdu. Public meetings were held in 2003, 2004, and 2015. Due to the large number of Spanish speakers in the project area, accommodations for Spanish speakers were planned for at all public meetings. Accommodations for other languages were not requested at past meetings but were and will be available upon request. A future Public Hearing will be conducted. Materials such as agendas, handouts, and comment cards will be translated into Spanish and Spanish interpreters will be available at all future meetings and all other language accommodations will be made available upon request.

No Build Alternative

The No Build Alternative is not expected to influence LEP populations within the project area.

5.7 Visual/Aesthetics Impacts

Build Alternative

Visual and aesthetic impacts may result from additional highway lighting systems, noise barriers, and other visual and aesthetic elements introduced into the proposed project area. The use of lighting will be determined in the detailed Planning, Specifications, and Estimates design stage. Any proposed lighting would be designed to minimize disruptions to adjacent residents. Noise barriers may also block lines of sight both to and from the SH 105 corridor. Any structure added to the existing SH 105 infrastructure may create visual and aesthetic contrast if not designed to match or complement the appearance of existing structures.

A field evaluation was done to determine the potential visual and aesthetic impacts resulting from the proposed Build Alternative. Because SH 105 is an existing transportation corridor and the proposed Build Alternative includes a limited number of additional elevated structures (e.g., the bridge over the BNSF RR), visual and aesthetic impacts are likely to be minimal. No adverse visual and aesthetic effects to any population or resources are anticipated. In addition, approximately 0.5 percent of the total project cost for the proposed project, or $1,562,650., will be dedicated to landscaping. Site photographs can be seen in **Appendix B**.

No Build Alternative

The No Build Alternative would leave the existing visual setting unchanged.

5.8 Cultural Resources

Cultural resources are structures, buildings, archeological sites, districts (a collection of related structures, buildings, and/or archeological sites), cemeteries, and objects. Both federal and state

laws require consideration of cultural resources during project planning. At the federal level, NEPA and the National Historic Preservation Act (NHPA) of 1966, among others, apply to transportation projects such as this one. In addition, state laws such as the Antiquities Code of Texas apply to these projects. Compliance with these laws often requires consultation with the Texas Historical Commission (THC)/Texas State Historic Preservation Officer (SHPO) and/or federally-recognized tribes to determine the project's effects on cultural resources.

Evaluation of impacts to cultural resources was conducted in accordance with the Programmatic Agreement (PA) among FHWA, TxDOT, the Texas SHPO, and the Advisory Council on Historic Preservation Regarding the Implementation of Transportation Undertakings. Review and coordination of this project followed approved procedures for compliance with federal and state laws.

5.8.1 Archeology

Build Alternative

An evaluation of potential impacts of the proposed project to archeological resources was conducted under Section 106 of the NHPA. A cultural resource survey investigation was conducted for the proposed project from August 19, 2004 to March 4, 2005. As per TxDOT requirements, no survey was conducted in segments for which the Potential Archeological Liability Map (PALM) recommends no survey. The sections of the proposed project alignment outside of the PALM map were covered by pedestrian survey. A total of 155 shovel tests were excavated. Additional tests could not be excavated due to limited property access and the high densities of unmarked utilities in the narrow easements.

A single artifact was recovered from the shovel test. The failure of subsequent shovel testing adjacent to this location to recover additional artifacts determined it was an isolated find. No evidence of archeological or historic remains was identified in any of the other areas within the project properties. Subsequently, no further archeological investigations were recommended. Judged to be an isolated find, the single artifact was curated as part of a comparative type collection. In the event that archeological deposits or features should be encountered during construction, work would cease in the immediate vicinity and the THC would be contacted for further consultation. TxDOT agreed with the archeological findings and coordinated with the SHPO at the THC on June 16, 2005. The THC concurrence letter was received on June 23, 2005. Subsequent coordination with the THC resulted in completion of the permit requirements for the proposed SH

105 project (THC Permit No. 3372). The completed permit letter is dated February 14, 2007 and can be seen in **Appendix G**.

Due to proposed design changes, an archeological resources background study was prepared in February 2017. The recommendation states that the majority of the area of potential effects (APE) has been previously surveyed and only a small fraction of the corridor was inaccessible at that time. Most of the proposed new ROW is in areas that do not require surface survey, and there are no anticipated deep impacts in those areas that occur in Map Units 1, 3, and 3a where deep survey would be recommended for deep impacts. The results of the previous survey indicated that the APE is in an area of low potential for containing archeological deposits. Most of the new proposed ROW consists of slivers no more than ten feet wide along portions of the roadway, and most of those areas fall in map units of the PALM where survey would not be required or are in areas that have been previously surveyed. Therefore, no additional archeological survey is recommended prior to construction. TxDOT agreed with the findings on April 20, 2017. The archeological resources background study report is available for review by qualified individuals at the TxDOT Houston District office. The coordination approval email can be seen in **Appendix G**.

Early coordination for Section 106 consultation with federally-recognized tribes was initiated on January 6, 2017. No response has been received at this time. In the event that burial remains and/or artifacts are discovered during the development or construction of the proposed project the tribe would be notified immediately. The early coordination letter can be seen in **Appendix G**.

No further consultation or other actions are required under Section 106 of the National Historic Preservation Act.

No Build Alternative

Under the No Build Alternative, no potential archeological sites would be impacted and no coordination with the THC would be required.

5.8.2 Historic Properties

Build Alternative

A reconnaissance survey was conducted for the APE, which was defined as 150 feet from the proposed ROW in sections where new ROW would be required and the existing ROW in areas where work would be within the existing ROW. In all, 230 historic-age resources (constructed before 1976) located on 123 parcels were documented. Additionally, 161 non-historic-age resources associated

with historic-age resources were documented in the inventory. None of the documented resources are recommended eligible for the National Register of Historic Places (NRHP) as a result of the survey. Therefore, the proposed project would have no effect on historic properties. Detailed information on the historical resources can be seen in the Report for Historical Studies Survey, which is available for public review at the TxDOT Houston District office.

In accordance with 36 CFR 60 and 36 CFR 800.11, the criteria of effect were not applied since there are no properties within the APE that are eligible for listing in the NRHP. Furthermore, the USDOT Act Section 4(f) regulations (23 CFR 774) pertaining to historic sites are not applicable to this project. No further work to complete the Historic Resources Survey Report is recommended.

No further consultation or other actions are required under Section 106 of the National Historic Preservation Act.

No Build Alternative

Under the No Build Alternative, no potential historical resources would be impacted and no coordination with the THC would be required.

5.9 DOT Act Section 4(f), LWCF Action Section 6(f) and PWC Chapter 26

Build Alternative

The proposed project would not require the use or substantially impair the purposes of any publicly owned land from a public park, recreational area, wildlife and waterfowl refuge lands, or historic sites of national, state, or local significance. The Cut and Shoot Town Park is located adjacent to SH 105; however, no additional ROW would be required from this park. Therefore, USDOT Section 4(f), Land and Water Conservation Fund (LWCF) Section 6(f), and Parks and Wildlife Code (PWC) Chapter 26 resources would not be impacted. In addition, based on the project scoping analysis, it was determined that the Build Alternative would not have impacts on Section 4(f), Section 6(f), or Chapter 26 land or properties.

No Build Alternative

The proposed project would not have impacts on Section 4(f), Section 6(f), or Chapter 26 land or properties.

5.10 Water Resources

5.10.1 Clean Water Act Section 404

Qualified biologists conducted site visits in July, August, September, and October of 2016, and January, February, March, and April of 2017 to determine the existence and extent of waters of the U.S., including wetlands. Right-of-entry was requested to parcels crossed by the proposed project. The site visits were limited to the existing ROW and those parcels where right-of-entry was granted. Parcels within the proposed ROW where right-of-entry was not granted would be assessed by TxDOT once ROW acquisition is complete (based on the assumption of an anticipated approved environmental document).

Build Alternative

The proposed project traverses 20 named stream crossings, two (2) ponds (open waters), 19 NWI mapped ponds, and eight (8) unnamed drainage channels. In addition, the proposed project traverses 46 wetland sites, of which, 29 are considered potentially jurisdictional (adjacent) and 17 are considered potentially non-jurisdictional (isolated).

The proposed project consists of 1.651 acres of open waters; 1.448 acres of potentially jurisdictional open waters and 0.203 acre of potentially non-jurisdictional open waters.

The proposed project consists of 4.957 acres of wetlands: 3.428 acres of potentially jurisdictional wetlands and 1.529 acres of potentially non-jurisdictional, or isolated, wetlands.

The proposed project may impact waters of the U.S., including wetlands, totaling 6.607 acres: 4.875 acres of potentially jurisdictional waters of the U.S., including wetlands, and 1.732 acres of potentially non-jurisdictional waters of the U.S., including wetlands.

The water crossings and wetlands within the proposed project limits can be seen in **Appendix F** and are described in further detail below.

Table 5-2: Potentially Jurisdictional Waters of the U.S., including Wetlands, within the Proposed Project

Potentially Jurisdictional Waters of the U.S., including Wetlands	Cowardin Classification (Acronyms Listed at Bottom of Table)	Existing Structure	Proposed Structure	*Open Waters/ Wetlands (Total Acres)	Length of Water (Feet)	Ordinary High Water Mark (OHWM) (Feet from Sea Level)
Stewarts Creek/ Perennial Stream	R2UBH	Bridge	Bridge	0.045/0.000	123	167
Little Caney Creek/ Perennial Stream/ **Wetland 1**	PFO1A	Bridge	Bridge	0.036/0.009	101	187
Tributary of Little Caney Creek/ Intermittent Stream/ **Wetland 2**	PFO1A	Culvert	Culvert	0.031/0.050	150	209
West Fork Crystal Creek/ Intermittent Stream/ **Wetlands 5 and 6**	R4SBCx	Culvert	Culvert	0.051/0.089	254	192
West Fork Crystal Creek Tributary No. 1/ Intermittent Stream/ **Wetlands 7 and 8**	R4SBC	Culvert	Culvert	0.116/0.100	150	209
Wetland 10	PUBHh	None	None	0.000/0.004	-	-
East Fork Crystal Creek/ Perennial Stream	PFO1/4A	Bridge	Bridge	0.058/0.000	210	170
Crystal Creek Tributary No. 3/Perennial Stream	PEM1C	Bridge	Bridge	0.074/0.000	197	179
Tributary of Caney Creek/ Intermittent Stream/ **Wetland 11**	R4SBC	Bridge	Bridge	0.020/0.001	197	182
Wetland 12	PEM1Cx	None	None	0.000/0.061	-	-
Caney Creek/ Perennial Stream/ **Wetland 13**	R2UBH	Bridge	Bridge	0.146/0.018	261	164

Table 5-2: Potentially Jurisdictional Waters of the U.S., including Wetlands, within the Proposed Project

Potentially Jurisdictional Waters of the U.S., including Wetlands	Cowardin Classification (Acronyms Listed at Bottom of Table)	Existing Structure	Proposed Structure	*Open Waters/ Wetlands (Total Acres)	Length of Water (Feet)	Ordinary High Water Mark (OHWM) (Feet from Sea Level)
Pond (Open Water)	Not classified on the NWI, but appears to be palustrine, scrub-shrub, and broad-leaved deciduous	Bridge	Bridge	0.052/0.000	-	169
Wetland 14	PUBFh	Bridge	Bridge	0.000/1.394	-	-
Cagle Branch/ Perennial Stream	PFO1/4A	Bridge	Bridge	0.047/0.000	202	172
West Fork Spring Branch/ Perennial Stream	PFO1A	Bridge	Bridge	0.037/0.000	175	174
Wetland 17	Not classified on the NWI, but appears to be palustrine, forested, broad-leaved deciduous, and temporarily flooded	None	None	0.000/0.002	-	-
Spring Branch/ Intermittent Stream/ **Wetland 18A**	R4SBC	Culvert	Culvert	0.027/0.013	151	192
Lawrence Creek/ Perennial Stream	PFO1A	Bridge	Bridge	0.098/0.000	206	152
Tributary of Lawrence Creek/ Intermittent Stream	R4SBC	Culvert	Culvert	0.026/0.000	170	165
Pond (Open Water)	Not classified on the NWI, but appears to be palustrine, forested, and broad-leaved deciduous	None	None	0.027/0.000	-	137
Wetland 21	PFO1C	None	None	0.000/0.354	-	-
Wetland 22	PFO1C	None	None	0.000/0.020	-	-
Peach Creek/ Perennial Stream	R5UBH	Bridge	Bridge	0.179/0.000	320	142

Table 5-2: Potentially Jurisdictional Waters of the U.S., including Wetlands, within the Proposed Project

Potentially Jurisdictional Waters of the U.S., including Wetlands	Cowardin Classification (Acronyms Listed at Bottom of Table)	Existing Structure	Proposed Structure	*Open Waters/ Wetlands (Total Acres)	Length of Water (Feet)	Ordinary High Water Mark (OHWM) (Feet from Sea Level)
Wetland 23	**PFO1A	None	None	0.000/0.966	-	-
Wetland 24	PFO1C	None	None	0.000/0.038	-	-
Wetland 25	Not classified on the NWI, but appears to be palustrine, forested, broad-leaved deciduous, and temporarily flooded	None	None	0.000/0.051	-	-
Shell Branch/ Intermittent Stream/ **Wetlands 31 and 32**	R4SBC	Culvert	Culvert	0.063/0.025	252	156
Tributary to Jayhawker Creek/ Intermittent Stream/ **Wetlands 33 and 34**	Not classified on the NWI, but appears to be palustrine, scrub-shrub, deciduous, and temporarily flooded	Culvert	Culvert	0.060/0.031	325	139
Jayhawker Creek/ Perennial Stream/ **Wetlands 35, 36, and 37**	PFO1A	Bridge	Bridge	0.063/0.172	261	128
Tributary of Bee Branch/ Intermittent Stream/ **Wetlands 38 and 39**	R4SBC	Culvert	Culvert	0.051/0.027	238	150
Bee Branch/ Perennial Stream/ **Wetlands 41 and 42**	PFO1A	Bridge	Bridge	0.141/0.003	151	145
Total				1.448/3.428	4,094	

Source: Jacobs, 2018. Note: NWI mapped ponds are not shown on Table 5-2, as they are captured as wetlands or not considered wetlands.
*Acreages listed above are the areas within the existing and proposed ROW, not necessarily the area actually impacted.
**Wetland 23 is considered a forested (SP 45A2/0.470-acre) and emergent (SP45A6/0.495-acre) potentially jurisdictional wetland.
Cowardin Classification Acronyms: **R2UBH**- Riverine, Lower Perennial, Open Water, **PFO1A**-Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded; **R4SBCx**-Riverine, Intermittent, Streambed, Seasonally Flooded, Excavated; Permanently Flooded; **R4SBC**- Riverine, Intermittent, Streambed, Seasonally Flooded; **PUBHh**-Palustrine, Unconsolidated Bottom, Permanently Flooded, Dike/Impounded; **PFO1/4A**-Palustrine, Forested, Broad-leaved Deciduous/Needle-leaved Evergreen, Temporarily Flooded; **PEM1C**-Palustrine, Emergent, Persistent, Seasonally Flooded; **PEM1C**x-Palustrine, Emergent, Persistent, Seasonally Flooded, Excavated; **PUBFh**-Palustrine, Unconsolidated Bottom, Semipermanently Flooded, Dike/Impounded; **PFO1C**-Palustrine, Forested, Broad-leaved Deciduous, Seasonally Flooded; **R5UBH**-Riverine, Unknown Perennial, Unconsolidated Bottom, Permanently Flooded.

Table 5-3: Potentially Non-Jurisdictional Waters of the U.S., including Wetlands, within the Proposed Project

Potentially Non-Jurisdictional Waters of the U.S., including Wetlands	Cowardin Classification (Acronyms Listed at Bottom of Table)	Existing Structure	Proposed Structure	*Open Waters/ Wetlands (Total Acres)	Length of Water (Feet)	Ordinary High Water Mark (OHWM) (Feet from Sea Level)
Unnamed Drainage Channel/ **Wetlands 3 and 4**	Not classified on the NWI, but appears to be palustrine, emergent, persistent, and temporarily flooded	Culvert	Culvert	0.004/0.031	51	211
Wetland 9	Not classified on the NWI, but appears to be palustrine, forested, broad-leaved deciduous, and temporarily flooded	None	None	0.000/0.031	-	-
Unnamed Drainage Channel/ **Wetland 15**	Not classified on the NWI, but appears to be palustrine, scrub-shrub, evergreen, and temporarily flooded	Culvert	Culvert	0.036/0.001	221	194
Unnamed Drainage Channel/ **Wetland 16**	Not classified on the NWI, but appears to be palustrine, emergent, persistent, and temporarily flooded	Culvert	Culvert	0.036/0.006	153	210
Unnamed Drainage Channel	Not classified on the NWI, but appears to be palustrine, emergent, persistent, and temporarily flooded	Culvert	Culvert	0.032/0.000	115	191
Wetland 18	Not classified on the NWI, but appears to be palustrine, scrub-shrub, broad-leaved deciduous, and temporarily flooded	None	None	0.000/0.016	-	-
Wetland 19	PFO1C	None	None	0.000/0.033	-	-
Unnamed Drainage Channel/ **Wetland 20**	Not classified on the NWI, but appears to be forested, broad-leaved deciduous, and temporarily flooded	Culvert	Culvert	0.027/0.001	170	171
Wetland 26	Not classified on the NWI, but appears to be palustrine, scrub-shrub, deciduous, and temporarily flooded	None	None	0.000/0.004	-	-
Wetland 27	PEM1F	None	None	0.000/0.041	-	-
Wetland 28	PSS1F	None	None	0.000/0.019	-	-

Table 5-3: Potentially Non-Jurisdictional Waters of the U.S., including Wetlands, within the Proposed Project

Potentially Non-Jurisdictional Waters of the U.S., including Wetlands	Cowardin Classification (Acronyms Listed at Bottom of Table)	Existing Structure	Proposed Structure	*Open Waters/ Wetlands (Total Acres)	Length of Water (Feet)	Ordinary High Water Mark (OHWM) (Feet from Sea Level)
Wetland 29	PFO1A	None	None	0.000/0.240	-	-
Wetland 30	Not classified on the NWI, but appears to be palustrine, forested, deciduous/evergreen, and temporarily flooded	None	None	0.000/0.193	-	-
Unnamed Drainage Channel/ **Wetland 40**	Not classified on the NWI, but appears to be palustrine, emergent, persistent, and temporarily flooded	Culvert	Culvert	0.015/0.006	82	153
Unnamed Drainage Channel/ **Wetland 43**	Not classified on the NWI, but appears to be palustrine, scrub-shrub, deciduous, and temporarily flooded	Culvert	Culvert	0.026/0.009	152	164
Unnamed Drainage Channel/ **Wetlands 44 and 45**	PFO1/4A	Culvert	Culvert	0.027/0.897	112	166
Total				0.203/1.529	1,056	-

Source: Jacobs, 2018. Note: NWI mapped ponds are not shown on Table 5-3, as they are captured as wetlands or not considered wetlands.

*Acreages listed above are the areas within the existing and proposed ROW, not necessarily the area actually impacted.

Cowardin Classification Acronyms: **PFO1C**-Palustrine, Forested, Broad-leaved Deciduous, Seasonally Flooded; **PEM1F**-Palustrine, Emergent, Persistent, Semipermanently Flooded; **PSS1F**-Palustrine, Scrub-Shrub, Broad-leaved Deciduous, Semipermanently Flooded; **PFO1A**-Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded; **PFO1/4A**-Palustrine, Forested, Broad-leaved Deciduous/Needle-leaved Evergreen, Temporarily Flooded.

Alternatives were reviewed as required by EO 11990 (see Section 4.0-Alternatives). Since the proposed project would result in the placement of over 0.50-acre acre of fill material into potentially jurisdictional waters of the U.S., including wetlands, an Individual Permit (IP) would be required. It should be noted that only the U.S. Army Corps of Engineers (USACE) can make an official potentially jurisdictional wetland determination under Section 404 of the Clean Water Act (CWA). A request for an Approved Jurisdictional Determination (AJD)/Preliminary Jurisdictional Determination (PJD) was submitted to the USACE on July 14, 2017. The USACE approved the AJD/PJD on February 26, 2018. The USACE determined that approximately 4,358 linear feet of tributaries and 4.615 acres of wetlands are waters of the U.S. that are subject to Section 404 of the CWA. The USACE approved AJD/PJD can be seen in **Appendix G**. An IP application is being prepared for the proposed project and will be submitted to the USACE.

Compensatory mitigation would be required as part of the IP for permanent impacts to potentially jurisdictional waters of the U.S., including wetlands. Compensatory mitigation ensures that losses to potentially jurisdictional waters of the U.S., including wetlands, result only in minimal adverse effects to the aquatic environment. The IP will contain a statement describing how temporary losses of waters of the U.S. would be avoided and/or minimized to the maximum extent practicable.

Best Management Practices (BMPs) would be utilized to minimize impacts to waters of the U.S., including wetlands, and to comply with the TCEQ water quality certification requirements. The BMPs would include temporary vegetation and/or sod for erosion control, vegetative filter strips for post-construction Total Suspended Solids (TSS) controls and silt fencing for sediment control.

Detailed information on the wetland determinations can be seen in the Wetlands Assessments Technical Report, which is available for public review at the TxDOT Houston District office.

No Build Alternative

The No Build Alternative would not affect waters of the U.S., including wetlands.

5.10.2 Clean Water Act Section 401

Build Alternative

The proposed project would require a USACE Section 404 Permit. Therefore, Section 401 Water Quality Certification would also be required.

Since the proposed project would result in a direct impact of greater than three acres of waters of U.S. and/or greater than 1,500 linear feet of streams, the required water quality certification is the

Tier II 401 Certification Questionnaire and Alternative Analysis Checklist. The Tier II water quality certification package will be prepared and submitted with the IP. The previously discussed BMPs would be utilized to minimize impacts to waters of the U.S., including wetlands, and to comply with the TCEQ water quality certification requirements.

Also, because a Tier II individual certification will be required, this project has been coordinated with TCEQ under TxDOT's Memorandum of Understanding (MOU) with TCEQ. The coordination correspondence is included in **Appendix G**.

No Build Alternative

The No Build Alternative would not affect any surface waters or overall water quality in the project area.

5.10.3 Executive Order 11990 Wetlands

Build Alternative

To the extent feasible, EO 11990 directs federal agencies to avoid the short and long-term impacts associated with the destruction or modification of wetlands. The EO also directs federal agencies to avoid direct or indirect support of new construction in wetlands wherever there is a feasible alternative.

Wetlands were identified within the proposed project corridor. Alternatives were reviewed as required by EO 11990 (see Section 4.0 – Alternatives). The proposed project was selected as the Build Alternative, as it meets the project's purpose and need for increased capacity, mobility, and safety of the roadway. The previously discussed BMPs would be implemented in order to minimize harm to wetlands. The potential jurisdictional wetland impacts are anticipated to be covered by an IP, which includes discussion of avoidance, minimization, and compensation.

No Build Alternative

The No Build Alternative would not affect waters of the U.S., including wetlands.

5.10.4 Rivers and Harbors Act

Build Alternative

The General Bridge Act of 1946 (formerly Section 9 of the Rivers and Harbors Act) directs the U.S. Coast Guard (USCG) to regulate the construction of bridges and causeways within or across waterways defined as navigable by that agency. Section 10 of the Rivers and Harbors Act allows

the USACE to regulate all work on structures in or affecting the course, condition, or capacity of the navigable waters of the U.S.

Coordination with the USCG was initiated on October 12, 2016, for a determination on whether or not navigable waters are located within the proposed project limits. A response was received on March 24, 2017. TxDOT determined that bridge project questionnaires were required. The bridge project questionnaires were submitted to the USCG on May 25, 2017 for review. The USCG determined on June 6, 2017 that the subject bridges within the proposed project met the criteria for the Surface Transportation Authorization Act (STAA) and qualified for exemption from USCG bridge permit requirements. The FHWA concurred with the USCG findings on June 14, 2017.

Coordination with the USCG was initiated on July 11, 2017, for a determination on whether or not bridge lighting is required for the bridges identified in the previously-mentioned bridge project questionnaires. The USCG determined on July 18, 2017 that the subject bridges within the proposed project qualify for exemption from USCG bridge lighting requirements.

The USCG coordination can be seen in **Appendix G**.

No Build Alternative

The No Build Alternative would not involve construction activities; therefore, USCG and USACE Section 9 and 10 permits are not required.

5.10.5 Clean Water Act Section 303(d)

Build Alternative

Section 303(d) of the CWA requires entities ensure that they do not contribute certain pollutants to specific waters considered impaired, above a total maximum daily load, to avoid impacting water quality in these waters. TxDOT is required to evaluate impacts of all transportation projects to waters identified as impaired and implement measures to reduce pollutants leaving project sites to ensure transportation activities are not negatively impacting these waters. The TCEQ is the agency responsible for maintaining the 303(d) list of impaired waters, setting and implementing water quality standards, and reporting the status of the state's waters to the EPA (30 TAC 307).

The proposed project is located within five (5) miles upstream of three impaired waters. The three impaired waters are part of the San Jacinto River Basin, as described below:

1. Segment 1003-East Fork San Jacinto River: Freshwater Stream; Perennial Stream; Aquatic Life Use (ALU) Designation-High. This segment was identified as impaired on the 2014 303(d) List due to bacteria levels in the following areas:

   - 1003_01: From the Caney Creek confluence upstream to US 59;
   - 1003_02: From US 59 to a point 40 kilometers upstream (just upstream of Clear Creek confluence;
   - 1003_03: From a point 40 kilometers upstream (just upstream of Clear Creek confluence) to US 190 (upper segment boundary).

   EPA-Total Maximum Daily Loads (TMDLs) for these segments are underway, scheduled, or will be scheduled.

2. Segment 1004-West Fork of the San Jacinto River: Freshwater Stream; Perennial Stream; ALU Designation-High. This segment was identified as impaired on the 2014 303(d) List due to bacteria levels in the following areas:

   - 1004_01: From the Spring Creek confluence upstream to the Stewart Creek confluence;
   - 1004_02: From the Stewart Creek confluence upstream to the Lake Conroe Dam.

   EPA-TMDLs for these segments are underway, scheduled, or will be scheduled.

3. Segment 1010C-Spring Branch: Freshwater Stream; Perennial Stream; ALU Designation-High. This segment was identified as impaired on the 2014 303(d) List due to depressed oxygen levels in the following areas:

   - 1010C_01: From the Caney Creek confluence to a point 0.54 kilometer (0.34-mile) upstream of SH 105.

   Additional data or information will be collected and/or elevated for one or more parameters before a management strategy is selected.

The above-referenced impaired waters do not currently have approved EPA-TMDLs; therefore, the proposed project will be implemented, operated, and maintained using BMPs to control the discharge of pollutants from the project site.

To date, TCEQ has not identified (through either a TMDL or the review of projects under the TCEQ MOU) a need to implement control measures beyond those required by the construction general permit (CGP) on road construction projects. Therefore, compliance with the project's CGP, along with coordination under the TCEQ MOU for certain transportation projects, collectively meets the need to address impaired waters during the environmental review process.

TxDOT ENV coordinated with TCEQ on May 16, 2017 under TxDOT's MOU with TCEQ. The TCEQ responded in an email dated May 18, 2017 that they do not anticipate significant long term environmental impacts from the proposed project with stipulations identified in the email. The coordination emails can be seen in **Appendix G.**

No Build Alternative

The No Build Alternative would not affect any surface waters or overall water quality in the project area.

5.10.6 Clean Water Act Section 402

Build Alternative

The proposed project would include five or more acres of earth disturbance. TxDOT would comply with the TCEQ Texas Pollution Discharge Elimination System (TPDES) CGP. The proposed project is considered a "large construction activity" under the CGP.

Since TPDES CGP authorization and compliance (and the associated documentation) occur outside of the environmental clearance process, compliance is ensured by the policies and procedures that govern the design and construction phases of the projects. The Project Development Process Manual and the Plans, Specifications, and Estimates (PS&E) Preparation Manual require a storm water pollution prevention plan (SW3P) be included in the plans of all projects that disturb one or more acres. The Construction Contract Administration Manual requires that the appropriate CGP authorization documents (notice of intent [NOI] or site notice) be completed, posted, and submitted, when required by the CGP, to TCEQ and the municipal separate storm sewer system (MS4) operator. It also requires that projects be inspected to ensure compliance with the CGP.

The PS&E Preparation Manual requires that all projects include Standard Specification Item 506 (Temporary Erosion, Sedimentation, and Environmental Controls), and the "Required Specification Checklists" require Special Provision 506-003 on all projects that need authorization under the CGP. These documents require the project contractor to comply with the CGP and SW3P, and to complete the appropriate authorization documents.

The proposed project will obtain coverage by preparing and implementing a SW3P, posting a construction site notice, submitting a NOI and associated fee to TCEQ, submitting the NOI to the operator of any MS4 into which stormwater will be directly discharged, and otherwise complying with the permit terms. The construction and maintenance of the proposed project would not create conditions that would violate state or federal water quality standards. Portions of the proposed project are located within the boundaries of the city of Conroe's MS4. All other portions of the proposed project are not located within the boundaries of a regulated MS4.

No Build Alternative

The No Build Alternative would not involve construction activities; therefore, a TPDES permit would not be required.

5.10.7 Floodplains

Build Alternative

According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM) for Montgomery, San Jacinto, and Liberty counties, a portion of the proposed project is located within a FEMA designated 100-year floodplain (**Appendix F**). The FEMA FIRM panel numbers for the proposed project within Montgomery County are 48339C0380G, 48339C0385G, 48339C0390G, 48339C0425G, and 48339C0450G; within San Jacinto County is 48407C0450C; and within Liberty County is 48291C0125C. Approximately 42 acres of the proposed project are located within the 100-year floodplain.

The hydraulic design for the Build Alternative would be in accordance with current FHWA and TxDOT design policies. The Build Alternative would also permit the conveyance of the 100-year flood (inundation of the roadway being acceptable) without causing substantial damage to the facility, stream, or other property. The Build Alternative would not increase the base flood elevation to a level that would violate applicable floodplain regulations and ordinances. The cities of Conroe, Cut and Shoot, and Cleveland, and the counties of Montgomery, San Jacinto, and Liberty are

participants in the National Flood Insurance Program. Coordination with the local Floodplain Administrator would be required.

Executive Order 11988 requires federal agencies to avoid, to the extent possible, long and short-term adverse impacts associated with the occupancy and modification of floodplains, and to avoid direct and indirect support of floodplain development wherever there is a practicable alternative.

The proposed project complies with EO 11988, as alternatives were considered for the proposed project (see Section 4.0 – Alternatives). The proposed project would not result in a "significant encroachment" on a floodplain as defined in 23 CFR 605.105(q).

No Build Alternative

Under the No Build Alternative, the existing infrastructure would remain as is and only normal routine maintenance would be conducted. No impacts to floodplains would occur; therefore, coordination is not required with the local Floodplain Administrator.

5.10.8 Wild and Scenic Rivers

Build Alternative

There are no rivers or river segments listed on the U.S. Department of Interior's National Inventory of River Segments in the National Wild and Scenic River System in the vicinity of the proposed project. No impacts would occur.

No Build Alternative

The No Build Alternative would not affect any wild and scenic rivers of the U.S.

5.10.9 Trinity River Corridor Development Certification

Build Alternative

The proposed project would not occur within the Regulatory Zone for the Trinity River Corridor; therefore, a permit is not required for construction of the proposed project.

No Build Alternative

The No Build Alternative would not involve any construction activities; and therefore, would not require a permit.

5.10.10 Coastal Barrier Resources

Build Alternative

The proposed project is located within Montgomery, San Jacinto, and Liberty counties, which are not located within a Coastal Barrier Resources Act (CBRA) map unit. Coordination with the U.S. Fish and Wildlife Service (USFWS) is not required for the CBRA.

No Build Alternative

The No Build Alternative would not require coordination with the USFWS for the CBRA.

5.10.11 Coastal Zone Management

Build Alternative

The proposed project is located within Montgomery, San Jacinto, and Liberty counties, which are not located within the jurisdictional boundary of the Texas Coastal Zone Management Program; therefore, consultation with the Texas General Land Office (GLO) is not required.

No Build Alternative

The No Build Alternative would not require consultation with the Texas GLO for the Texas Coastal Zone Management Program.

5.10.12 Edwards Aquifer

Build Alternative

The proposed project would be constructed in Montgomery, San Jacinto, and Liberty counties, which are not located within counties that are over the recharge or contributing zones of the Edwards Aquifer. Therefore, the proposed project is not subject to regulation under TCEQ's Edward Aquifer rules.

No Build Alternative

The No Build Alternative is not subject to regulation under TCEQ's Edward Aquifer rules.

5.10.13 International Boundary and Water Commission

Build Alternative

The proposed project does not cross or encroach upon the floodplains of the U.S. International Boundary and Water Commission (USIBWC); therefore, a license or permit is not required.

No Build Alternative

The No Build Alternative does not require a USIBWC license or permit.

5.10.14 Drinking Water Systems

Build Alternative

A search of water well database records and published groundwater reports was conducted in July 2016. A copy of the water well report (excerpt) is included in the Water Resources Technical Report, which is available for public review at the TxDOT Houston District office. The search results indicated that a total of 299 water supply wells, listed in five databases, are located within a 0.50-mile radius of the proposed project area. Thirty-three (33) water wells are located within the existing or proposed ROW. Twenty-five (25) water wells are located adjacent to or within 150 feet of the project area. Based on the current schematic, it is not anticipated that these water wells would be impacted by the proposed project.

Although construction and operation of the proposed project would minimally affect regional groundwater resources, each of the identified wells could be impacted because of the close proximity of the proposed project to the wells. Any wells found to intersect or be adjacent to the proposed project would be plugged prior to construction. If contamination were encountered at any of the identified well or abandoned well sites, remediation would be conducted prior to construction. Appropriate precautions, such as establishing and implementing construction BMPs, would be applied to divert surface water runoff from entering the aquifers in the wellhead protection areas.

No Build Alternative

The No Build Alternative would not affect groundwater resources in the proposed project area.

5.11 Biological Resources

A Biological Survey Technical Report, including a Biological Evaluation Form, has been completed for the proposed project, which is available for public review at the TxDOT Houston District office. Coordination between TxDOT and Texas Parks and Wildlife Department (TPWD) is triggered per Section 2.206 (6 and 7) of the September 2013 MOU between TxDOT and TPWD. The coordination documentation can be seen in **Appendix G**.

5.11.1 Texas Parks and Wildlife Coordination

Build Alternative

The proposed project is within range and suitable habitat for 21 species; two state endangered species, nine state threatened species, and ten Species of Greatest Conservation Need (SGCN). Best Management Practices would be implemented for eight of these species, but no BMPs are provided in the BMP PA for 13 species: 1) southern crawfish frog (*Lithobates areolatus*), 2) the Houston toad (*Anaxyrus houstonensis*), 3) the Red-cockaded Woodpecker (*Picoides borealis*), 4 and 5) "a mayfly" (*Tricorythodes curvatus* and *Plauditus gloveri*), 6) Gulf Coast clubtail (*Gomphus modestus*), 7) Texas emerald dragonfly (*Somatochlora margarita*), 8) Plains spotted skunk (*Spilogale putorius interrupta*), 9) northern scarlet snake (*Cemophora coccinea copei*), 10) timber rattlesnake (Crotalus horridus), 11) bristle nailwort (*Paronychia setacea*), 12) Correll's false dragon-head (*Paronchia setacea*), and 13) Florida pinkroot (*Spigelia texana*). Because the proposed project is in the range and suitable habitat for the above-listed species, coordination with TPWD was initiated on August 4, 2017. A response was received from TPWD on November 30, 2017 and TPWD considers coordination to be complete. The coordination documentation can be seen in **Appendix G**.

No Build Alternative

The No Build Alternative would not require any removal or disturbance of wildlife.

5.11.2 Impacts on Vegetation

Build Alternative

The vegetation inventory was conducted using the Ecological Mapping Systems of Texas (EMST). **Table 5-4** summarizes the potential permanent impacts to vegetation that could result from the proposed project. Permanent impacts include areas that would be covered by new pavement.

Table 5-4: Ecological Mapping Systems of Texas Vegetation Impacts

EMST Vegetation Type (Common)	TPWD Ecological System Type	MOU Habitat Type	Acres of Permanent Impacts
Urban			
Urban Low Intensity	Urban	Urban	173.325
Urban High Intensity	Urban	Urban	93.559
Total Impacts			**266.884**
Mixed Woodlands and Forest			
Pineywoods: Hardwood Flatwoods	West Gulf Coastal Plain Pine – Hardwood Flatwoods	Mixed Woodlands and Forest	7.159
Pineywoods: Pine Forest or Plantation	West Gulf Coastal Plain Pine – Hardwood Forest	Mixed Woodlands and Forest	10.997
Pineywoods: Longleaf or Loblolly Pine – Hardwood Flatwoods or Plantation	West Gulf Coastal Plain Pine – Hardwood Flatwoods	Mixed Woodlands and Forest	0.151
Pineywoods: Longleaf or Loblolly Pine – Flatwoods or Plantation	West Gulf Coastal Plain Pine – Hardwood Flatwoods	Mixed Woodlands and Forest	0.018
Pineywoods: Pine – Hardwood Forest or Plantation	West Gulf Coastal Plain Pine – Hardwood Forest	Mixed Woodlands and Forest	5.548
Pineywoods: Upland Hardwood Forest	West Gulf Coastal Plain Pine – Hardwood Forest	Mixed Woodlands and Forest	55.343
Total Impacts			**75.217**
Disturbed Prairie			
Pineywoods: Disturbance or Tame Grassland	Disturbance Grassland	Disturbed Prairie	44.948
Native Invasive: Deciduous Woodland	Native Invasive Shrub and Woodland	Disturbed Prairie	2.797
Total Impacts			**48.258**
Riparian			
Pineywoods: Small Stream and Riparian Temporarily Flooded Hardwood Forest	West Gulf Coastal Plain Small Stream and River Forest	Riparian	12.387
Open Water	Open Water	Riparian	0.959
Pineywoods: Small Stream and Riparian Temporarily Flooded Mixed Forest	West Gulf Coastal Plain Small Stream and River Forest	Riparian	0.294
Total Impacts			**13.640**

Table 5-4: Ecological Mapping Systems of Texas Vegetation Impacts

EMST Vegetation Type (Common)	TPWD Ecological System Type	MOU Habitat Type	Acres of Permanent Impacts
Wet Savanna, Swamp, Baygall			
Pineywoods: Hardwood Flatwoods	West Gulf Coastal Plain Pine – Hardwood Flatwoods	Wet Savanna, Swamp, Baygall	0.424
Pineywoods: Herbaceous Flatwoods Pond	West Gulf Coastal Plain Flatwoods Pond	Wet Savanna, Swamp, Baygall	6.114
Pineywoods: Longleaf or Loblolly Pine Flatwoods or Plantation	West Gulf Coastal Plain Pine – Wet Hardwood Flatwoods	Wet Savanna, Swamp, Baygall	0.254
Pineywoods: Wet Hardwood Flatwoods	West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	Wet Savanna, Swamp, Baygall	0.243
		Total Impacts	**7.035**
		TOTAL ACRES	**411.034**

Source: Jacobs Project Team (August 2016); TPWD EMST (2016); TXDOT Dallas District Version of EMST (2015).

The proposed project would impact 75.217 acres of Mixed Woodlands and Forest MOU habitat type which is greater than the three (3) acres threshold in the Threshold Table PA for this MOU Habitat Type. The proposed project would impact 48.258 acres of Disturbed Prairie MOU habitat type which is greater than the three (3) acres threshold in the Threshold Table PA for this MOU Habitat Type. The proposed project would impact 13.640 acres of Riparian MOU habitat type which is greater than the 0.10-acre threshold in the Threshold Table PA for this MOU Habitat Type. The proposed project would impact 7.035 acre of Wet Savanna, Swamp, Baygall MOU type which is greater than the 0.10-acre threshold in the Threshold Table PA for this MOU Habitat Type. Therefore, coordination between TxDOT and TPWD is triggered per Section 2.206 (6 and 7) of the September 2013 MOU between TxDOT and TPWD. Further details concerning the EMST can be found in the TxDOT Biological Evaluation Form and its associated supporting biological data located in the Biological Survey Technical Report, which is available for public review at the TxDOT Houston District office.

The vegetation BMPs listed in the 2013 TxDOT/TPWD MOU BMP PA between TxDOT and TPWD would be followed to the extent practicable for the anticipated impacts resulting from the proposed project.

No Build Alternative

The No Build Alternative would not affect vegetation within the proposed project.

5.11.3 Executive Order 13112 on Invasive Species

Build Alternative

This project is subject to and will comply with federal EO on Invasive Species. The department implements this EO on a programmatic basis through its Roadside Vegetation Management Manual and Landscape and Aesthetics Design Manual.

No Build Alternative

The No Build Alternative would not affect vegetation in the proposed project area.

5.11.4 Executive Memorandum on Environmentally and Economically Beneficial Landscaping

Build Alternative

This project is subject to and will comply with the federal Executive Memorandum on Environmentally and Economically Beneficial Landscaping, effective April 26, 1994. The department implements this Executive Memorandum on a programmatic basis through its Roadside Vegetation Management Manual and Landscape and Aesthetics Design Manual.

No Build Alternative

The No Build Alternative would not affect vegetation in the proposed project area.

5.11.5 Impacts to Wildlife

Build Alternative

A field investigation was performed in August 2016 by qualified biologists. Wildlife species typical to the proposed project area may include those common species normally found in rural and urban areas. The species for this area may include squirrels, rabbits, raccoons, migratory songbirds, and various rodents. Other species may include opossums, frogs, lizards, and snakes. Swallow nests were observed during field investigations on bridges in the proposed project area, most abundant at the Caney Creek Bridge (Exhibit 5; Photograph 12; Page 5 of 6 located in the Biological Survey Technical Report). For more detailed information on wildlife resource impacts and BMPs, see the Biological Survey Technical Report, which is available for public review at the TxDOT Houston District office.

No Build Alternative

The No Build Alternative would not affect wildlife in the proposed project area.

5.11.6 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) states that it is unlawful "by any means or manner, to pursue, hunt, take, capture, [or] kill" any migratory birds except as permitted by regulation (16 U.S.C. 703-704).

Build Alternative

Migratory birds are known to nest on bridges under existing roadways. As previously mentioned, Swallow nests were observed during field investigations on bridges in the proposed project area, most abundant at the Creek Bridge. In the event that migratory birds are encountered on-site during proposed project construction, every effort would be made to avoid protected birds, active nests, eggs, and/or young. In case birds nest in the structures were to be affected by construction, the contractor would remove all old migratory bird nests between October 1 and February 15 from any structure where work would be done. In addition, the contractor would be prepared to prevent migratory birds from building nests between February 15 and October 1.

No Build Alternative

The No Build Alternative would not affect birds protected under the MBTA.

5.11.7 Fish and Wildlife Coordination Act

The Fish and Wildlife Coordination Act (FWCA) of 1958 requires that federal agencies obtain comments from USFWS and TPWD. applies to projects that result in the control or modification of a natural stream or body of water and require a Section 404 CWA permit.

Build Alternative

Since a Section 404 CWA IP would be required for the proposed project, the FWCA requirements are applicable, but would be met through the Section 404 CWA permitting process.

No Build Alternative

The No Build Alternative would not affect fish and wildlife protected under the FWCA.

5.11.8 Bald and Golden Eagle Protection Act of 2007

The Bald and Golden Eagle Protection Act (*Haliaeetus leucocephalus* and *Aquila chrysaetos*, respectively) enacted in 1940, and amended several times since, prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" eagles, including their parts, nests, or eggs. The act defines criminal penalties for persons who "take, posses, sell, purchase, barter, offer to sell, transport, export or import, at any time or any manner, any Bald Eagle (or any Golden Eagle), alive or dead, or any part, nest, or egg thereof."

Build Alternative

According to the Texas Natural Diversity Database (TXNDD), two element occurrence records for Bald Eagle territories are located within ten miles of the proposed project; however, none were located within 1.5 miles. No Bald Eagles, eagle nests, or suitable habitat was observed during the site investigations. Therefore, no protected habitat would be impacted by the proposed project.

No Build Alternative

The No Build Alternative would not affect Bald or Golden Eagles protected under the Bald and Golden Eagle Protection Act of 2007.

5.11.9 Magnuson-Stevens Fishery Conservation Management Act

Build Alternative

The Magnuson-Stevens Fishery Conservation and Management Act, as amended on October 11, 1996, directs that all Federal agencies, whose actions would impact essential fish habitat, must consult with the National Marine Fisheries Service regarding potential adverse impacts to essential fish habitat. No tidally influenced waters exist in the proposed project area; therefore, no essential fish habitat would be impacted. Since there are no tidally influenced waters, there is no requirement to address essential fish habitat.

No Build Alternative

The No Build Alternative would not affect essential fish habitat protected under the Magnuson-Stevens Fishery Conservation and Management Act.

5.11.10 Marine Mammal Protection Act

Build Alternative

The U.S. Marine Mammal Protection Act (MMPA) protects all marine mammals, including cetaceans (whales, dolphins, and porpoises), pinnipeds (seals and sea lions), sirenians (manatees and

dugongs), sea otters, and polar bears within the waters of the U.S. No tidally influenced waters exist in the proposed project area; therefore, no marine mammals would be impacted. Since there are no tidally influenced waters, there is no requirement to address marine mammals.

No Build Alternative

The No Build Alternative would not affect marine mammals protected under the MMPA.

5.11.11 Threatened, Endangered, and Candidate Species

A review of the USFWS Information for Planning and Consultation (IPaC) official species list indicated that the proposed project is in the range of the following species: endangered Least Tern (*Sterna antillarum*), threatened Piping Plover (*Charadris melodus*), and threatened Red Knot (*Caladris canutus rufa*). The proposed project does not contain critical habitat for the Least Tern, Piping Plover, and Red Knot. In addition, according to the IPaC, these species are only given consideration for wind energy projects. Therefore, an analysis of effects of these species was not carried forward. An analysis of effects for species carried forward can be seen below.

Build Alternative

Federally-Listed Threatened, Endangered, and Candidate Species:

The federally and state endangered Red-cockaded Woodpecker (*Picoides borealis*) was identified in the TPWD Annotated County List for Montgomery, San Jacinto, and Liberty counties, Texas, the USFWS IPaC Trust Resources Report, and the TXNDD report.

The federally and state endangered Houston toad (*Anaxyrus houstonensis*) was identified in the TPWD Annotated County List for Liberty County, Texas. The Houston toad is not listed in the USFWS IPaC Trust Resources Report and is not listed on the TXNDD report.

The Red-cockaded Woodpecker and Houston toad are described in further detail below, including a discussion of potential effects of the proposed project to these species, which are also discussed in the Biological Technical Report, which is available for public review at the TxDOT Houston District office.

Red-cockaded Woodpecker

A review of TPWD TXNDD identified 37 element occurrence records for the Red-cockaded Woodpecker within 10 miles of the proposed project, one of which was within the proposed project (observed in 1991) and one of which was within 1.5-miles of the proposed project (listed as observed from 1979-1980). The most recent element occurrence record observation date between

1.5 and 10 miles of the proposed project was in 1995. The remaining 34 element occurrence records for the Red-cockaded Woodpecker between 1.5 and 10 miles of the proposed project, were observed in 1979-1980, 1988, and 1991. In addition, populations of Red-cockaded Woodpecker are known to occur to the north of the proposed project in the SHNF.

During an initial site investigation of all species on the USFWS and TPWD lists in 2016 it was reported that, there were no older pine trees (60+ years) or cavity trees present for nesting within the proposed project area but that suitable foraging habitat for Red-cockaded Woodpecker was considered present in the project area and that consultation with USFWS was necessary for concurrence that the project may effect but is not likely to adversely affect the Red-cockaded Woodpecker. As an initial step in responding to this suggested need for USFWS consultation, TxDOT sought technical assistance on the Red-cockaded Woodpecker from the USFWS. USFWS biologists were not aware of any Red-cockaded Woodpecker in the project area. TxDOT biologist visited the project site in the spring of 2018 and determined the understory in the area of pine trees was too thick to support suitable foraging habitat for Red-cockaded Woodpecker. Based on the 2018 observations that the understory was too thick to support suitable foraging habitat and that there are no suitable >10-inch dbh pine trees in the project area to support a nesting colony, this project will have no effect on the federally endangered Red-cockaded Woodpecker. The *Basis for No Effect Determinations* letter, that includes documentation of the coordination between TxDOT and USFWS, can be seen in **Appendix G** and is on file in the Texas Environmental Conservation Online System (ECOS).

Contractors will be advised of the potential presence of transient Red-cockaded Woodpecker(s) within the proposed project area and to avoid harming the species if encountered. In addition, Bird BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species.

Houston Toad

Although the Houston toad is identified in the TPWD Annotated County List for Liberty County, the species is not identified in the USFWS IPaC Official Species List. No element occurrence records were noted in the TXNDD report, and the species was not observed within the proposed project while conducting on-site surveys, as identified by a qualified biologist.

While initial surveys of the project area identified sandy soils and canopy cover consistent with habitat requirements for the Houston toad, the species is considered extirpated from the project area. Initial reviews relied on the Houston toad being on the Texas Parks and Wildlife Department's

(TPWD) Annotated County List of Rare Species for Liberty County, TX. The USFWS does not include Houston toad on their IPaC list of federally Endangered or Threatened species for any of the counties in the project area. Subsequent coordination with TPWD, including TPWD's information page on the Houston toad (https://tpwd.texas.gov/huntwild/wild/species/htoad/) confirm that Liberty County is not currently habitat for the Houston toad, and therefore this project will have no effect on the species. The Basis for No Effect Determinations letter, that includes documentation of the coordination, can be seen in **Appendix G** and is on file in ECOS.

Contractors will be advised that in the very rare event a Houston toad is encountered in the project area, they are to avoid harming it.

U.S. Fish and Wildlife Service Consultation

An Official Species List was generated for the proposed project on July 26, 2016 through the ECOS IPaC system for the USFWS Texas Coastal Ecological Services Field Office in Houston, Texas. This memo lists the threatened and endangered species that may occur in or be affected by the proposed project and indicates that no critical habitats are located within the proposed project. This memo along with the Official Species List containing further information on the listed species can be found in the supporting biological data attached to the Biological Evaluation Form in **Appendix G**. Because the project will have no effect on any threatened or endangered species or critical habitat for such species, no consultation with the USFWS under Section 7 of the Endangered Species Act is required.

State-Listed Threatened, Endangered Species:

The Houston toad and Red-cockaded Woodpecker are federally and State-listed endangered species and are discussed above.

The nine State-listed threatened species with suitable habitat within the proposed project are as follows: 1) Bachman's Sparrow (*Aimophila aestivalis*), 2) Swallow-tailed Kite (*Elanoides forficatus*), 3) Wood Stork (*Mycteria americana*), 4) creek chubsucker (*erimyzon oblongus*), 5) Rafinesque's big-eared bat (*Corynorhinus rafinesquii*), 6) sandbank pocketbook (*Lampsilis satura*), 7) Texas pigtoe (*Fusconaia askewi*), 8) northern scarlet snake (*Cemophora coccinea copei*), and the 9) timber rattlesnake (*Crotalus horridus*). These species are described in further detail below, including a discussion of the potential impacts of the proposed project to these species, and in the Biological Technical Report, which is available for public review at the TxDOT Houston District office.

Bachman's Sparrow

Although the proposed project area does provide habitat, mostly in the pine timber plantations and the pinewoods with scattered bushes and a grassy understory in the Pineywoods region, the proposed project area does not provide the remaining habitat as seen in the Biological Technical Report on Table 3-2 and Exhibit 5; Photographs 3, 5 - 8, and 12.

There is no element of occurrence records listings of the Bachman's Sparrow in the TXNDD within 10 miles of the proposed project, and the Bachman's Sparrow was not observed or heard during the site investigation. Bird BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. As such, the Bachman's Sparrow is not expected to occur within the proposed project area and the proposed project may impact, but is not likely to adversely impact the species.

Swallow-tailed Kite

Although the proposed project area does provide open woodland, pines, and various deciduous trees, the proposed project area does not provide the remaining habitat listed in the Biological Technical Report on Table 3-2 and Exhibit 5; Photographs 3 – 10, and 12.

There is no element of occurrence records listings of the Swallow-tailed Kite in the TXNDD within 10 miles of the proposed project, and the Swallow-tailed Kite was not observed during the site investigation. Bird BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. As such, the Swallow-tailed Kite is not expected to occur within the proposed project area and the proposed project may impact, but is not likely to adversely impact the species.

Wood Stork

Although the proposed project area contains suitable habitat per the TPWD county list(s) in ditches, wetlands, and other shallow standing water, the Wood Stork was not spotted while conducting onsite surveys (Biological Technical Report- Exhibit 5; Photographs 3, 9, 10, and 11). In addition, the proposed project area does not contain salt water, tall snags, or mud flats.

There is no element of occurrence records listings of the Wood Stork in the TXNDD within 10 miles of the proposed project. The Wood Stork formerly nested in Texas, but there have been no breeding records since 1960. Bird BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. Based on the above, the Wood Stork is not

expected to occur within the proposed project area and the proposed project may impact, but is not likely to adversely impact the species.

Creek Chubsucker

Although creeks that are tributaries of the San Jacinto River exist within the proposed project area, these creeks are not at headwaters (Biological Technical Report-Exhibit 5; Photographs 2 and 11). There are no confirmed sightings of the creek chubsucker (TXNDD) within the proposed project vicinity, and the creek chubsucker was not observed while conducting onsite surveys. In addition, the design and construction of the proposed project would include construction and post-construction BMPs to manage storm water runoff and control sediments; thereby protecting any creek chubsucker habitat. In addition, the Fish BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. The creek chubsucker is not expected to occur within the proposed project area and the proposed project may impact, but is not likely to adversely impact the species.

Rafinesque's Big-eared Bat

The proposed project area includes suitable habitat in concrete culverts, bridges, and various abandoned man-made structures within and adjacent to the proposed project area but does not include cavity trees in bottomland hardwood forest (Biological Technical Report-Exhibit 5; Photographs 9 and 10). Since the proposed project area contains some suitable habitat, the Rafinesque's Big-Eared bat could occur within the proposed project area.

There is no element of occurrence records listings of the Rafinesque's big-eared bat in the TXNDD within 10 miles of the proposed project and the species was not observed during the site investigation. Tree Bat BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. As such, the Rafinesque's big-eared bat is not expected to occur within the proposed project area and the proposed project may impact but is not likely to adversely impact the species.

Sandbank Pocketbook

Suitable habitat for this species exists in the perennial streams within the proposed project area (Biological Technical Report-Exhibit 5; Photograph 15). However, observations of the sandbank pocketbook were not reported within 10-miles of the proposed project area in the TXNDD and the species was no observed during the site investigation.

Mussel BMPs would be implemented, as listed in the BMP PA between TxDOT and TPWD per the 2013 TxDOT/TPWD MOU, eliminating the requirement to coordinate for this species. Per the Mussel BMPs, on-site mussel survey would also be conducted to verify the presence or absence of the sandbank pocketbook. Although the sandbank pocketbook is not expected to occur within the proposed project area, the proposed project may impact, but is not likely to adversely impact the species.

Texas Pigtoe

Suitable habitat for this species exists in the perennial streams within the proposed project area (Biological Technical Report-Exhibit 5; Photograph 15). However, observations of the Texas pigtoe were not reported within 10-miles of the proposed project area in the TXNDD and the species was no observed during the site investigation.

Mussel BMPs would be implemented, as listed in the BMP PA between TXDOT and TPWD per the 2013 TxDOT/TPWD MOU, eliminating the requirement to coordinate for this species. Per the Mussel BMPs, on-site mussel survey would also be conducted to verify the presence or absence of the Texas pigtoe. Although the Texas pigtoe is not expected to occur within the proposed project area, the proposed project may impact, but is not likely to adversely impact the species.

Northern Scarlet Snake

Suitable habitat for this species is located in the mixed hardwood scrub on sandy soils within the Liberty County portion of the proposed project. However, the species was not observed during the site visit. Contractors will be advised of the potential occurrence in the project area, and to avoid harming the species if encountered. Although the northern scarlet snake is not expected to occur within the proposed project area, the proposed project may impact, but is not likely to adversely impact the species.

Timber Rattlesnake

Suitable habitat for this species exists in the riparian zones, floodplains, upland pine and deciduous woodlands, and sandy soils mostly within 300 feet of stream crossings. The proposed project area habitat does not include swamps, abandoned farmland, limestone bluffs, black clay, or the preferred habitat of dense ground cover. i.e. grapevines or palmetto. Since some suitable habitat does exist, the timber rattlesnake could occur within the proposed project area. (Biological Technical Report-Exhibit 5; Photographs 4 - 12).

There is no element of occurrence records listings for this species in the TXNDD within 10 miles of the proposed project and the species was not observed during site investigation. Contractors would be advised of the potential occurrence of the species in the proposed project, and to avoid harming the species if encountered, thus eliminating the need for TxDOT/TPWD MOU coordination for this species. The timber rattlesnake is not expected to occur within the proposed project area and the proposed project may impact but is not likely to adversely impact the species.

State-listed Species of Greatest Conservation Need

In addition to threatened and endangered species, TPWD tracks species that are considered rare but do not have any formal federal or State listing status. Ten (10) SGCN have suitable habitat located within the proposed project area and are listed as follows: 1) the southern crawfish frog (*Lithobates areolatus*), 2) a mayfly (*Tricorythodes curvatus*), 3) a mayfly (*Plauditus gloveri*), 4) Gulf Coast clubtail (*Gomphus modestus*), 5) Texas emerald dragonfly (*Somatochlora margarita*), 6) plains spotted skunk (*Spilogale putorius interrupta*), 7) southeastern myotis bat (*Myotis austroriparius*), 8) bristle nailwort (Paronychia setacea), 9) Correll's false dragon-head (*Paronchia setacea*), and 10) Florida pinkroot (*Spigelia texana*). These species are described in further detail in the Biological Survey Technical Report, including a discussion of the potential impacts of the proposed project to these species. No long-term or population-level impacts are expected to occur for any SGCNs of potential occurrence in the proposed project area. The Biological Survey Technical Report is available for public review at the TxDOT Houston District office.

No Build Alternative

The No Build Alternative would not affect any federal or State-listed threatened, endangered, or SGCN in the proposed project area.

5.12 Air Quality

This project is located within an area that has been designated by EPA as a moderate nonattainment area for the 2008 ozone NAAQS; therefore, transportation conformity rules apply for this standard. Effective August 3, 2018, the EPA designated Montgomery County as marginal nonattainment for the 2015 ozone NAAQS. In accordance with 40 CFR 93.109(c), transportation conformity to this new standard is required by August 3, 2019 (one year after the effective date). Both the Metropolitan Transportation Plan (MTP) and the TIP were initially found to conform to the TCEQ State Implementation Plan (SIP) by FHWA and Federal Transit Administration (FTA) on September 11, 2015 and December 19, 2016, respectively; however, the proposed project is not consistent with this conformity determination, because the project description needs to be revised

to replace the raised median description with a two-way center turn lane. TxDOT will not take final action on this environmental document until the proposed project is consistent with a currently conforming MTP and TIP. A Transportation Conformity Report Form will be submitted for this project once the project is included and consistent with the applicable RTP and TIP as indicated above.

The project is not located within a carbon monoxide (CO)/particulate matter (PM) nonattainment or attainment-maintenance area (NA/MA); therefore, a project level hot spot analysis is not required.

Traffic data for the design year 2040 is 30,521 vpd. A prior TxDOT modelling study and previous analyses of similar projects demonstrated that it is unlikely that a CO standard would ever be exceeded as a result of any project with an Annual Average Daily Traffic (AADT) below 140,000. The AADT projections for the project do not exceed 140,000 vpd; therefore, a Traffic Air Quality Analysis is not required.

A qualitative MSAT assessment was conducted to compare MSAT emissions of the alternatives. The Build Alternative may result in increased exposure to MSAT emissions in certain locations, although the concentrations and duration of exposures are uncertain, and because of this uncertainty, the health effects from these emissions cannot be estimated. However, on a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be lower in the future. A qualitative MSAT analysis is included in the previously mentioned Air Quality technical report.

In an effort to reduce congestion and the need for single-occupancy vehicle (SOV) lanes in the region, TxDOT and H-GAC would continue to promote appropriate congestion reduction strategies through the Congestion Mitigation and Air Quality (CMAQ) program, the Congestion Management Process (CMP), and the 2040 RTP. Project specific commitments for CMP include signalization, intersection improvements, a sidewalk on both sides of SH 105 for the entire length of the proposed project, and bicycle accommodations in the shared use lanes and the outside shoulders. These congestion reduction strategies considered for the proposed project would help alleviate congestion in the SOV project area boundary but would not eliminate it. Therefore, the proposed project is justified. The full CMP disclosure is included in the previously mentioned Air Quality technical report.

TxDOT Environmental Affairs Division (ENV) coordinated with the TCEQ on August 3, 2017 under the TxDOT-TCEQ MOU. The TCEQ responded in an email dated August 9, 2017 concurring with TxDOT's assessment. The coordination email can be seen in **Appendix G.**

For more detailed information on air quality impacts please see the Air Quality Analysis Technical Report, which is available for public review at the TxDOT Houston District office.

5.13 Hazardous Materials

An initial site assessment (including a visual survey of the project limits and surrounding area, research of existing and previous land uses, and a limited review of federal and state regulatory databases) was performed by Jacobs in August and September 2016. The surveyed areas included areas within existing and proposed ROW, where right-of-entry was granted, and areas adjacent to the proposed project. The purpose of the initial site assessment (ISA) was to identify the presence (or likely presence) of any hazardous substances or petroleum products at or near the proposed project under conditions that indicate an existing release, a past release, or a material threat for release of any hazardous substances or petroleum products into structures or into the ground, groundwater, or surface water of the proposed project.

No subsurface, asbestos, or lead paint investigations were included in the documentation reviewed.

Two sites (service stations-Map IDs 16 and 21) were identified as concerns with regard to underground storage tanks (USTs). Further investigation is recommended for the two sites; however, the depth of the proposed storm sewer is not known at this time. Therefore, TxDOT will conduct further testing during final design when the impacts/depths are known. Additional information can be seen below and in the Hazardous Materials Technical Report (2018), which is on file, along with the ISA form, at the TxDOT Houston District office.

<u>Build Alternative</u>

As seen in the Hazardous Materials Technical Report, the majority of the high and low risk sites represented by a Map ID and visual survey sites are associated with automotive service and/or fuel stations, oil and gas facilities, or commercial facilities. Many of the Map IDs are listed under multiple regulatory databases. TxDOT reviewed the Hazardous Materials Technical Report and of the eight (8) sites recommended for additional environmental investigative surveys, TxDOT considers the two previously mentioned service stations as needing further testing (complete American Society for Testing and Materials [ASTM] E1903-11 Phase II Environmental Site Assessment). A copy of the regulatory database radius report (excerpt), including acronyms, can be seen in **Appendix F, Exhibit 5**. The eight (8) sites are described in further detail below.

Sites Recommended for Further Testing:

1. Map ID 16: Crystal Creek Market/Shopping Center and AmeriGas Propane (11925 Highway 105 East, Conroe, TX) is located within the existing and proposed ROW and was determined to be a high risk for the project area. Approximately 0.15-acre of additional ROW is required from this site and the business will be displaced by the proposed project. The site is listed in the Notice of Violations (NOV), Leaking Petroleum Storage Tank (LPST), Petroleum Storage Tank (PST), Texas Tier II Chemical Reporting Program (Tier 2)(2) and Facility Registry System of Texas (FRSTX) databases.
    1. Crystal Creek Market: The NOV database reported three minor and two moderate category waste violations in 2011 that all have a resolved status. The PST database lists the site as active with two 6,000-gallon underground storage tanks (UST), and one 6,000-gallon gasoline UST that were removed from the ground in 1991. One 25,000-gallon gasoline and one 25,000-gallon diesel UST are currently in use. The LPST database reports the priority code for the leaking tanks case as (4.2) no groundwater impact, with no apparent threats or impacts to receptors and a status code of (6A) final concurrence issued, case closed.
    2. Tier2: The Tier2 database reported that AmeriGas Propane reported 24,000-gallons of Liquefied Petroleum Gas (LPG) onsite in 2007 with a maximum of 30,000-gallons/124,000 lbs.

    Additional investigations will be conducted within the existing and proposed TxDOT ROW prior to construction, as this site has two (2) currently operating USTs that will be displaced on site, is a former LPST site, has large quantities of LPG gas onsite, and has a history of waste violations.

2. Map ID 21: EZ Mart 5/Super Stop 4 (11487 Highway 105 East, Conroe, TX) is located within the existing and proposed ROW and was determined to be a high risk for the project area. Approximately 0.15-acre of additional ROW is required from this site and it is listed in the Groundwater Contamination Cases (GWCC) (2), LPST, PST, and FRSTX databases. The GWCC database lists the site under TCEQ's remediation division/petroleum storage tank reimbursement program, confirmed in 1989, with no further contamination information reported. The LPST database reports the priority code for the leaking tanks case as (4.1) groundwater impacted, no apparent threat or impacts to receptors and a status code (2) site assessment. The leaking tank was reported in August 1989. The PST database lists the site as inactive with two tanks

removed from the ground in 1998, and one tank permanently filled in place in 1997. Additional investigations are recommended within the existing and proposed TxDOT ROW prior to construction, as this is an active LPST site with known groundwater contamination.

Site with No Further Testing Recommended:

The following five sites were recommended for additional investigations; however, upon further TxDOT ENV review, the five sites were determined to require no further investigation. The five sites are listed below.

1. Map ID 14: Former Annie's Country Store, Speedy Stop 8/Sadler Development Corporation, 3900 E. Davis Street, Conroe, TX, LPST 116631.
2. Map ID 2: Former NAPA Facility/Custom Granite, 2416 E. Davis Street, Conroe, TX, LPST 108132.
3. Map ID 13: Former Coors of the Woods (Warehouse), 2811 E. Davis Street, Conroe, TX, LPST 116215.
4. Map ID 15: Tennessee Gas Pipeline Compressor Station 25 Cleveland, 25726 Highway 105, Cleveland, TX, PST, TIER II, Aerometric Information Retrieval System/Air Facility Subsystem (AIRSAFS), FRSTX, Permit Compliance System (PCSR06), Resource Conservation and Recovery Act- Non-Generator sites (RCRANGR06), and Industrial and Hazardous Waste Corrective Action (IHW).
5. Map ID 39: 1402 E. Davis Conroe Site, Former Super Stop 3, and Expressway Market 1402 E. Davis Street, Conroe, TX, Brownfield Management System (BF) #125661 and PST (2).

Site Avoided by Project Design:

The last remaining of the eight sites is avoided by project design. The site is a superfund site with groundwater that is contaminated with naphthalene and pentachlorophenol. More detailed information can be seen below and in the Hazardous Materials Technical Report.

1. Map ID 1: Conroe Creosoting Company (1776 E. Davis Street, Conroe, TX 77301) abuts the existing and proposed ROW and was determined to be a high risk to the proposed project. The site is divided in two portions adjacent to SH 105; a cleared area and a wooded area with a lake/detention pond. According to the EPA Remedial Project Manager, the cleared area was the contaminated area and was the former processing

plant for the creosote operation. He also stated that there are no concerns with the wooded area with the lake/detention pond on it, as the groundwater flow does not go in the direction of the wooded area (to the east), but rather to the southwest. On August 29, 2008, the EPA determined that the Conroe Creosoting Company superfund site is ready for commercial/industrial reuse and can be sold at any time. Approximately 1.15 acres of additional ROW is required from the wooded area of this superfund site.

The Conroe Creosoting Company is listed in the AIRSAFS, Federal Engineering Institutional Control Sites (EC), FRSTX, GWCC (3), Integrated Compliance Information System [formerly DOCKETS] (ICIS) (2), Record of Decision System (RODS), PST, National Priorities List (NPL), RCRANGR06, Superfund Enterprise Management System (SEMS), IHW, TCEQ LIENS, CERCLIS (Superfund) Liens (SFLIENS), and Toxic Release Inventory (TRI) databases. The EC database reported that groundwater monitoring and natural attenuation controls were completed and that no further action for soil and sediment was decided in 2003. The GWCC database reported that creosote component contamination was confirmed in September 2003. The PST database reported the site as inactive with three diesels, two gasoline, and one kerosene ASTs that have been out of use since 1998. The NPL and SEMS databases reported that the site is listed on the final NPL as a superfund site with groundwater that is contaminated with napthalene and pentachlorophenol. The site operated from 1947-1997. The RCRANGR06 database reported the site was a non-generator in 2001 and a Conditionally exempt small quantity generator in 1994 and 1980. Compliance actions included fourteen evalautions (1988-2004), eighteen violations (1993-1996), and twelve enforcements (1989-1999). Reported hazadous wastes included process wastes from using chlorophenolic wood preservation formulations; sediment sludge used to treat wastewater from processes using creosote and pentachorophenol. The IHW database reported the site as inactive in 2003 and was formerly an industrial large quantity generator of process residuals, drippage, and spent formulation from wood preservation, miscellaneous plant trash including wood, metal, etc., absorbent waste and used oil filters from vehicle maintenance shop, rendered sodium dichromate containers, and boiler fly ash from class 2 waste processing. The SFLIENS database reported that the site listing status was final in the NPL as of 2012 for the presence of base neutral acids and PAH contaminants. The TRI database chronicles the release of pentachlorophenol, copper, arsenic, creosote, and chromium into the air and/or water from 1987 – 1993.

Regulated facilities, such as the above-referenced sites (listed in the Hazardous Materials Technical Report on file at the TxDOT Houston District office) that would intersect with the proposed project, would be acquired through TxDOT's ROW acquisition process. The acquisition of hazardous material sites/facilities would present a liability risk to TxDOT. Therefore, prior to acquisition, it is recommended that a complete ASTM E1903-11 Phase II Environmental Site Assessment be performed for any site determined to be of "high risk." Should any unanticipated hazardous materials and/or petroleum contamination be encountered during construction, it would be handled according to applicable federal and state regulations and TxDOT standard specifications.

The contractor would respond appropriately to prevent, minimize, and control the spill of hazardous materials in the construction staging area. The use of construction equipment within sensitive areas would be minimized or eliminated. All construction materials used for the proposed project would be removed as soon as the work schedules permit. Should hazardous materials/substances be encountered, the authorities would be notified, and steps would be taken to protect personnel and the environment. Any unanticipated hazardous materials and/or petroleum contamination encountered during construction are to be handled according to applicable federal, state, and local regulations per TxDOT standard specifications. If necessary, the plans, specifications, and estimates would include provisions for the appropriate soil and/or groundwater management plans for activities within the contaminated area. The management plans would be initiated in accordance with all applicable federal, state, and local regulations.

Because the proposed project would: 1) demolish and/or renovate multiple bridges and overpasses; 2) demolish buildings located within the proposed ROW; and 3) acquire areas that may contain asbestos or lead-based paint, all asbestos and lead-based paint inspections, specifications, notifications, licenses, accreditations, abatement, and disposal (as applicable) would be performed in compliance with federal and state regulations.

No Build Alternative

Unless remediation plans are presently in place, current conditions related to existing hazardous material sites would remain unaltered under the No Build Alternative. Existing remediation plans would continue independently under the jurisdiction of TCEQ and the EPA.

5.14 Traffic Noise

A noise analysis was conducted for the proposed project due to the addition of through lanes; the existing two-lane roadway would be widened to a four-lane roadway. This analysis was

accomplished in accordance with TxDOT's *Traffic Noise Toolkit*, including FHWA's approved *Guidelines for Analysis and Abatement of Roadway Traffic Noise*, dated March 2011. The Traffic Noise Technical Report has been completed for this project and is available for public review at the TxDOT Houston District office.

Build Alternative

The traffic noise analysis determined that out of 157 representative receivers, 102 representative receivers would be expected to have a noise increase at or above the criteria for absolute or relative impacts; therefore, noise mitigation was considered for the proposed project. Noise receivers were primarily residential, but also included a cemetery, restaurants, churches and church playground, a park, a post office, a city hall, a ball room, a reception hall, a community center, a bar, RV parks, and an elementary school. A noise barrier analysis was performed and a total of two (2) noise barriers for two representative receivers were found to be reasonable and feasible and are recommended for incorporation into the proposed project (**Table 5-5**). Noise barriers were not recommended for the remaining 100 representative impacted receivers, as the barriers would not be sufficient to achieve the minimum feasible reduction of 5 dB(A) [A-weighted decibel] and the noise reduction design goal of 7 dB(A), or the barrier would exceed the reasonable, cost-effectiveness criterion of $25,000. It should be noted that installation of any noise barriers is dependent on detailed design and input from adjacent property owners. Noise receiver and barrier locations can be seen in **Appendix F, Exhibit 6.**

R6: This receiver represents two residences. Based on preliminary calculations, a split noise barrier totaling 79 feet in length and 10 feet in height would reduce noise levels by at least 5 dB(A) or more and achieve a 7 dB(A) noise reduction design goal at one or more receivers for 2 benefited receivers at a total cost of $14,220 or $7,110 for each benefited receiver.

It should be noted that the porch of one of the two receivers encroaches upon existing TxDOT ROW. In addition, the receivers are located between the existing BNSF RR ROW and the existing TxDOT ROW. The parking area is located within existing TxDOT ROW. The proposed roadway would construct a sidewalk in front of these receivers. There is no parking area behind the receivers due to the BNSF RR. Therefore, ROW acquisition would most likely be proposed for these receivers and the proposed noise barrier would be a conditional proposal to be discussed during the ROW acquisition process. If the residences at this location are displaced, then no noise barriers would be built at this location.

R11: This receiver represents one residence. Based on preliminary calculations, a noise barrier 75 feet in length and 10 feet in height would reduce noise levels by at least 5 dB(A) and achieve a 7 dB(A) noise reduction design goal at 1 benefited receiver at a total cost of $13,500 or $13,500 for each benefited receiver.

Table 5-5: Noise Barrier Proposal (Preliminary)

Barrier	Representative Receivers	Total No. Benefited Receivers	Length (feet)	*No. of Segments	Height (feet)	Total Cost	Cost/ Benefited Receiver
1	R6	2	79	1	10	$14,220	$7,110
2	R11	1	75	-	10	$13,500	$13,500

Source: Jacobs, 2018

*Segments are the number of breaks in a barrier a (-) symbolizes a continuous wall.

Any subsequent project design changes may require a re-evaluation of this preliminary noise barrier proposal. The final decision to construct the proposed noise barrier will not be made until completion of the project design, utility evaluation and polling of adjacent property owners. To avoid noise impacts to properties adjacent to the proposed project subject to future development, local officials responsible for land use control programs must ensure, to the maximum extent possible, that no new activities are planned or constructed along or within the following predicted (2040) noise impact contours. The noise impact contours can be seen in **Table 5-6**.

Table 5-6: Noise Impact Contours

Undeveloped Area	Land Use Noise Abatement Criteria (NAC)	Impact Contour (dBA)	Distance from ROW (Feet)
10th Street to Loop 336	B and C	66	76
10th Street to Loop 336	E	71	11
Loop 336 to FM 1484	B and C	66	185
Loop 336 to FM 1484	E	71	78
FM 1484 to Crockett Martin Road	B and C	66	170
FM 1484 to Crockett Martin Road	E	71	59
Crockett Martin Road to west of the BNSF RR Bridge	B and C	66	155

Table 5-6: Noise Impact Contours

Undeveloped Area	Land Use Noise Abatement Criteria (NAC)	Impact Contour (dBA)	Distance from ROW (Feet)
Crockett Martin Road to west of the BNSF RR Bridge	E	71	51
West of the BNSF RR Bridge to Fostoria Road	B and C	66	170
West of the BNSF RR Bridge to Fostoria Road	E	71	47
Fostoria Road to Business 105	B and C	66	149
Fostoria Road to Business 105	E	71	18

Source: Jacobs, 2018.

No Build Alternative

Under the No Build Alternative, the proposed project would not be constructed. Traffic noise levels at modeled receiver locations would be expected to increase due to the increase in traffic volumes.

5.15 Induced Growth

Build Alternative

An Indirect and Cumulative Impacts Technical Report was prepared for the proposed project and is available for public review at the TxDOT Houston District office.

The potential of the proposed project to result in induced growth and related effects was determined using TxDOT's *Induced Growth Indirect Impacts Decision Tree* and TxDOT's Risk Assessment for Indirect Impacts. Since the proposed project would substantially increase access or mobility in the project area and since the project area is experiencing population and/or economic growth, an induced growth impacts analysis was conducted. The analysis followed the six-step methodology identified in TxDOT's *Guidance: Indirect Impacts Analysis*:

1. Define the methodology;
2. Define the area of influence (AOI) and study timeframe;
3. Identify areas subject to induced growth in the AOI;
4. Determine if growth is likely to occur in the induced growth areas;

5. Identify resources subject to induced growth impacts;
6. Identify mitigation if applicable.

Evaluation of the AOI identified 11,192 acres available for new development (not currently slated for development) within the AOI. The induced growth impacts analysis of the areas available for new development concluded that the proposed project improvements would serve to alleviate congestion and reduce travel times along the SH 105 corridor; these factors are known to enhance the appeal of surrounding land to developers and consumers (National Cooperative Highway Research Program [NCHRP] 2002, 58). As a result of improved mobility, the proposed project would potentially result in increased appeal of the activity areas along the SH 105 corridor at the intersections of North Loop 336, FM 1485, South Walker Road, and Old Hwy 105 East. With the exception of the Old Hwy 105 East intersection, these areas are mostly developed; therefore, any future land use changes at these intersections would be expected to occur in the form of redevelopment, which could occur at a more rapid rate as a result of an increase in location attractiveness resulting from the proposed project improvements. Additionally, further build out of existing planned residential developments, located in the eastern portions of the AOI, could potentially occur at a more rapid rate than would occur in the absence of the proposed improvements.

The proposed project could potentially influence vegetation, habitat for State-listed threatened and endangered species, as well as State-listed SGCN, and water resources. Please see Section 3.5 of the Indirect and Cumulative Impacts Technical Report, which is available for public review at the TxDOT Houston District office, for further information on these resources.

No Build Alternative

The No Build Alternative would not result in any of the potential indirect effects; however, this alternative would not satisfy the purpose and need of the proposed project.

5.16 Cumulative Impacts

Build Alternative

An Indirect and Cumulative Impacts Technical Report was prepared for the proposed project and is available for public review at the TxDOT Houston District office.

The potential of the proposed project to result in cumulative impacts was determined using TxDOT's *Cumulative Impacts Decision Tree* and TxDOT's *Risk Assessment for Cumulative Impacts*. A review

of the direct and indirect effects of the proposed project were used to identify resources that are substantially impacted by the proposed project, and those that are impacted to some degree but are at risk or have poor or declining health. The analysis followed the five-step methodology identified in TxDOT's *Guidance: Indirect Impacts Analysis:*

1. Resource Study Area, Conditions, and Trends;
2. Direct and Indirect Effects on each Resource from the Proposed Project;
3. Other Actions-Past, Present, and Reasonably Foreseeable-and their Effect on each Resource;
4. The Overall Effects of the Proposed Project Combined with other Actions;
5. Mitigation of Cumulative Effects.

The following resources were deemed appropriate to analyze for cumulative impacts:

1. Vegetation Resources: Vegetation, including Wildlife Habitat;
2. Water Quality; and
3. Water Resources: Waters of the U.S., including Wetlands.

A summary of the overall effects of the proposed project combined with other actions and mitigation for each resource is detailed below.

Vegetation

Cumulative impacts to vegetation could result in the incremental permanent conversion of the vegetation communities and associated habitats, including preferred habitats of threatened and endangered species and SGCNs (98,153 acres), to suburban or urban developed conditions. Existing habitats may be fragmented from other similar habitats over time, as the Resource Study Area (RSA) becomes more developed. Using H-GAC land use projections, it is anticipated that growth in the RSA would take place in these habitat areas regardless of the construction of the proposed project.

Mitigation efforts to compensate for the loss of natural resources could be done within or near the proposed project's RSA, which is identified as the eight (8) sub-watersheds of the Crystal Creek-West Fork San Jacinto River and the Peach Creek-28 Creek watersheds. There may also be opportunities from other planned development projects to restore or enhance degraded natural areas or create certain habitat types for terrestrial and aquatic wildlife (as an example) that

previously were not present in a particular area. Re-vegetation along the ROW would adhere to TxDOT's re-vegetation guidelines.

Direct land use impacts would be mitigated through avoidance and minimization. Although the proposed project would result in direct impacts to wooded and other vegetative communities, mitigation would minimize the impacts to these habitats through minimizing de-vegetation of the construction area wherever safety allows. Cumulative impacts to vegetation would be similar to the direct impacts but would occur throughout the RSA. Because TxDOT and FHWA do not have the authority to implement zoning or planning regulations, vegetation mitigation on a larger scale would require the collaborative efforts of the public, private developers, and local, county, and regional planners. All parties have a stake in the ultimate landscape in which they reside, and only proactive, cooperative interactions would enhance the optimum blend of natural and developed communities.

Impacts to federally-listed threatened and endangered species are regulated by the USFWS under the Endangered Species Act. Impacts to State-listed threatened and endangered species are regulated by TPWD. Coordination with TPWD, for potential impacts to regulated species and their habitats, is required for the proposed project under the TxDOT-TPWD MOU.

Water Quality

Due to the limited availability of data, the analysis of overall cumulative effects on water quality from the proposed project is primarily qualitative. However, it is estimated that approximately 19,595 acres of reasonably foreseeable future actions from potential development could contribute to increases in impervious cover within the RSA. Combined with the existing impervious cover within the RSA, cumulatively this could amount to approximately 59,930 acres (34 percent) of impervious cover. This estimate assumes 100 percent conversion of land from all reasonably foreseeable future actions to impervious cover, which is unlikely. It is not anticipated that cumulative impacts to water quality would pose a long-term negative impact to water quality within the RSA. Under most development conditions, including the construction of the proposed project improvements, stream or tributary crossings would likely be bridged or placed in culverts. Any planned construction activities could temporarily affect water quality in area streams, and an increase in suspended sediments could occur at or near the construction site. However, BMPs could be used during construction to minimize any impact to the immediate construction area.

Mitigation options that may be considered for impacts to water resources either by TxDOT, local agencies, or developers may include:

- Roadway design (using bridge crossings instead of filled embankment);
- Decreasing the amount of fill placement;
- Implementing BMPs, such as an erosion and sedimentation control plans;
- The use of detention/retention basins and revegetated swales to minimize runoff, sedimentation, turbidity, leaching of soil nutrients, and leaching of chemicals from petroleum products, pavement, and waste material; and
- Maintaining flow patterns to ensure wetland hydrology is tied with roadway design requirements.

Water Resources: Waters of the U.S., including Wetlands

Due to the limited availability of data, the analysis of overall cumulative effects on water resources from the proposed project is primarily qualitative. Water resources include waters of the U.S., including wetlands. Of the approximate 12,842 acres of NWI-mapped wetlands and 1,119,970 linear feet of waters of the U.S. within the RSA, 7,069 acres of NWI–mapped wetlands and up to 588,948 linear feet of waters of the U.S. may be cumulatively impacted. Due to the net conversion of undeveloped land (which includes wetlands) to structures, impervious cover, and maintained open spaces, water resource impacts within the RSA would be probable and could pose a negative impact to water resources within the RSA. However, due to mitigation requirements for impacts to regulated wetlands and waters of the U.S., this impact is not anticipated to be substantial.

Potential impacts to water resources would be mitigated through development and implementation of a SW3P that would address measures to prevent or correct erosion that may occur during construction. BMPs for temporary and permanent soil erosion and sedimentation controls would be implemented along with measures to prevent/control hazardous material spills during construction. Stormwater detention areas or vegetated open drainage ways with culverts would collect stormwater discharges, promote settling of suspended solids, and reduce potential pollutant concentrations.

To a large extent, impacts to wetlands would be avoided, minimized, or mitigated by compliance with existing federal statutes that apply to private and government interests. The USACE (under Section 404 of the CWA) has legislative mandates to reduce or avoid significant and adverse impacts to protected resources on an individual and cumulative basis. The regulations are intended to minimize adverse effects on protected water resources as a cumulative consequence of development.

Wetland impacts, whether direct or cumulative, would be regulated through the USACE Section 404 permit process. Natural resource agencies (including the TPWD, USFWS, USACE, EPA, and TCEQ) would be party to decisions regarding appropriate mitigation (if required), as well as wetland type, function, location, and size. Should mitigation be required, the USACE mitigation rule regarding compensatory mitigation for losses of aquatic resources would be followed. Possible mitigation alternatives may be wetland habitat restoration, enhancement, creation, or preservation. Preference would be given to potential mitigation within the impacted watershed for direct impacts to waters of the U.S., including wetlands.

No Build Alternative

The No Build Alternative would not result in any of the potential indirect effects; however, this alternative would not satisfy the purpose and need of the proposed project.

5.17 Construction Phase Impacts

The construction would be phased and is anticipated to begin in 2021. The SH 105 project is estimated to be open for traffic in 2027.

Noise Impacts

Noise barriers were found to be feasible and reasonable and are recommended for incorporation into the proposed project design. Noise associated with the construction of the project is difficult to predict. Heavy machinery, the major source of noise in construction, is constantly moving in unpredictable patterns. However, construction normally occurs during daylight hours when occasional loud noises are more tolerable. None of the receivers is expected to be exposed to construction noise for a long duration; therefore, any extended disruption of normal activities is not expected. Provisions would be included in the plans and specifications that require the contractor to make every reasonable effort to minimize construction noise through abatement measures such as work-hour controls and proper maintenance of muffler systems.

Air Quality Impacts

During the construction phase of the proposed project, temporary increases in PM and MSAT emissions may occur from construction activities. The primary construction-related PM emissions are fugitive dust from site preparation, and the primary construction-related MSAT emissions are diesel PM from diesel powered construction equipment and vehicles.

The potential impacts of PM emissions would be minimized by using fugitive dust control measures contained in standard specifications, as appropriate. The Texas Emissions Reduction Plan (TERP) provides financial incentives to reduce emissions from vehicles and equipment. TxDOT encourages construction contractors use this and other local and federal incentive programs to the fullest extent possible to minimize diesel emissions. Information about the TERP program can be found at: https://www.tceq.texas.gov/airquality/terp.

However, considering the temporary and transient nature of construction-related emissions, the use of fugitive dust control measures, the encouragement of the use of TERP, and compliance with applicable regulatory requirements; it is not anticipated that emissions from construction of this project would have any significant impact on air quality in the area.

Biological Impacts

Temporary impacts to natural resources could result from construction of the proposed project, which could include disturbances to wildlife and vegetative communities. During project development, TxDOT would design, use, and promote construction practices that minimize adverse effects on regulated wildlife habitat. Existing vegetation, especially native trees, would be avoided and preserved wherever practicable. Disturbed areas would be restored, reseeded, and re-contoured as necessary in accordance with TxDOT specifications.

Hazardous Materials Impacts

The contractor would apply appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. The use of construction equipment within sensitive areas would be minimized or eliminated entirely. All construction materials would be removed as soon as the work schedules permit. Any unanticipated hazardous materials and/or petroleum contamination encountered during construction would be handled in accordance with all applicable federal, state, and local regulations per TxDOT standard specifications. The contractor will be required to adhere to all commitments established in any Phase II Environmental Site Assessment.

Traffic Pattern Impacts

Construction of the proposed project would not require the use of traffic detours. Traffic would utilize the existing roadway while the new lanes are being constructed. Once the new lanes have been constructed and opened for use, then the widening of the opposite lanes would begin. Construction of the proposed project would not prevent access to any adjacent property.

No Build Alternative

Because no construction would be performed, the No Build Alternative would have no construction impacts.

6.0 AGENCY COORDINATION

A coordination letter pertaining to this proposed project was sent from H-GAC to the Texas Transportation Commission. Coordination letters were sent to SHNF, THC, TCEQ, USCG, TPWD, and USFWS. Letters sent to and/or received from these agencies are included in **Appendix G**.

7.0 PUBLIC INVOLVEMENT

The Notice of Availability (NOA) of the EA will be published on TxDOT's website located at www.txdot.gov under "Inside TxDOT", "Get Involved", and "About Public Hearings and Meetings". Interested parties and stakeholders, including the Metropolitan Planning Organization (MPO), which is the H-GAC for this proposed project, will be notified via email about the availability of the document and how to access it.

Written comments can be submitted through the project website, by email to HOU-PIOWebMail@txdot.gov, or mailed to: TxDOT Houston District, Attn: Director of Project Development, P.O. Box 1386, Houston, Texas 77251-1386.

TxDOT will thoroughly consider all comments submitted during the comment period. The comment period will coincide with the advertisement of the Public Hearing. All comments received during the public comment period will be considered and responded to in the official Public Hearing documentation. Based on the analysis conducted in this EA and comments received during the comment period, TxDOT will determine whether the potential environmental effects warrant the preparation of an EIS. If TxDOT determines that there are no significant adverse effects, it will prepare and sign a Finding of No Significant Impact (FONSI), which will be made publicly available.

Table 7-1 lists the public involvement activities held for the proposed project to date. Upon anticipated approval of the Draft EA, a Public Hearing will be announced through public notice and held to provide the public a forum to comment on the proposed project.

Table 7-1: Public Involvement Activities

Activity	Public Meeting Date	Newspaper and Newspaper Advertisement Run Dates			
		Houston Chronicle (Main)	Conroe Courier (Community)	Cleveland Advocate (Community)	La Voz (Spanish)
Public Meeting	06/24/2003	05/27/2003 06/14/2003	-	-	-
Public Meeting	06/26/2003	05/27/2003 06/14/2003	-	-	-
Public Meeting	11/19/2003	10/20/2003 11/10/2003	10/20/2003 11/10/2003	10/22/2003 11/5/2003	-
Public Meeting	11/20/2003	10/20/2003 11/10/2003	10/20/2003 11/10/2003	10/22/2003 11/5/2003	-
Public Meeting	05/11/2004	04/09/2004 04/30/2004	04/09/2004 04/30/2004	04/14/2004 04/28/2004	-
Public Meeting	05/13/2004	04/09/2004 04/30/2004	04/14/2004 04/28/2004	04/14/2004 04/28/2004	-
Public Meeting	12/01/2015	10/29/2015 11/19/2015	10/28/2015 11/18/2015	10/28/2015 11/18/2015	11/01/2015 11/22/2015

Source: Jacobs, 2018.

Note: Additionally, notices were posted on TxDOT's website at: http://www.txdot.gov/inside-txdot/get-involved/about/hearings-meetings/houston/120115.html for the 12/01/2015 public meeting.

All public meetings were held at facilities located within the project area capable of accommodating the meetings.

The June 24 and 26, 2003 public meetings were held at the Montgomery College Resource Room at 102 Longview Drive, Conroe, Texas and at the Stephen F. Austin Elementary School at 14796 Highway 105 East, Conroe, Texas, respectively. Seventy-one (71) citizens, including three public officials, attended the June 24th meeting and 111 citizens, including six public officials, attended the June 26th meeting. Twenty-four (24) people were in support of the general project and three

(3) people were opposed to the project, mainly citing ROW concerns. One (1) person requested widening to the north, two (2) people requested widening to the south, one (1) person requested widening down the middle, and one (1) person requested a continuous two-way turn-lane. The following are the primary concerns noted at the public meeting:

- Improvements to safety along SH 105 are necessary;
- Improvements would increase safety between Loop 336 and FM 1485;
- ROW concerns;
- Improvements to be to AASHTO specifications and include designated bike route;
- Signal concerns at Waukegan and Walker Road;
- Problems at Austin Elementary School and the request for the construction of a turn lane or installation of a signal at the school;
- Increase in noise levels;
- Drainage issues on private property;
- Traffic during the construction phase of the project;

The November 19 and 20, 2003 public meetings were held at the Hauke Alternative High School at 701 North Third Street, Conroe, Texas and at Stephen F. Austin Elementary School, respectively. Twenty (20) citizens, who included no public officials, attended the November 19th meeting and 74 citizens, including five public officials, attended the November 20th meeting. There is no tally of how many people supported or opposed the proposed project. Two (2) people requested widening to the north, three (3) people requested widening to the south, nine (9) people requested widening down the middle, and one (1) person preferred the No Build Alternative. In addition, two (2) people had no preference on the alternative chosen, just that the building process be rushed. The following are the primary concerns noted at the public meeting:

- Requests for the project to be expedited;
- Noted: Five fatalities on SH 105 between Crockett Martin Road and Walker road since the last series of public meetings in June;
- Noted: Fatal accidents at and around the intersection of SH 105 and Walker Road, and the Security Community Center, and that the area between FM 1484 and Old Highway 105 is an area of fast, heavy development;
- Designated turn lane;

- ROW concerns;
- Signal concerns at Waukegan Road to improve safety at the intersection and nearby Stephen F. Austin Elementary School;
- Signal at FM 1484 and Walker Road;
- Reflective markers installed at upcoming dangerous intersections;
- Problems at Austin Elementary School and the request for the construction of a turn lane or installation of a signal at the school;
- Increase in noise levels;
- Drainage issues on private property;
- Traffic during the construction phase of the project;
- 70 mph is unnecessary;
- Request for connection road east of Loop 336 and Willis Road;
- Preservation of trees and road side parks;
- 2,000-gallon tank could be found at Derk Small Road on the right side.

The May 11 and 13, 2004 public meetings were held at Stephen F. Austin Elementary School and Washington Junior High School at 507 Martine Luther King Boulevard, Conroe, Texas, respectively. Fifty-seven (57) citizens, including one public official, attended the May 11th meeting and eleven (11) citizens, who included no public officials, attended the May 13th meeting. Three (3) people were in favor of the project for safety reasons associated with a reduction in traffic accidents and three (3) people opposed the project because of ROW concerns. The following are the primary concerns noted at the public meeting:

- Requests for the project to be expedited;
- Center two-way turn lane instead of grassy median;
- Cut and Shoot Volunteer Fire Department needs better left-turn access than what was presented in the plan.
- Request for access in front of business-south of SH 105 near Coopers Tires;
- ROW concerns;
- Traffic signal needed at Waukegan Road, Walker Road, Stephen F. Austin Elementary School, and FM 1484;
- Creosote plant was cleaned up and no longer there and some areas mislabeled on the map;
- Access at Stephen F. Austin Elementary School

- Request to buy back land at Fostoria Road if connector is eliminated.

The December 1, 2015 public meeting was held at Stephen F. Austin Elementary School at the previously-mentioned location. One hundred seventeen (117) citizens, including eleven (11) public officials, attended the meeting. Thirteen (13) people were in support of the project, five (5) were not in support of the project, and eleven (11) were non-committal. The following are the primary concerns noted at the public meeting:

- Raised medians will not allow turning movements and access for big trucks;
- Access concerns due to median openings;
- Median openings requested at certain properties;
- Construct a continuous two-way turn lane throughout the length of the proposed project;
- The project needs to be completed;
- The project needs to start soon;
- Sidewalks are unnecessary;
- Traffic signal requests at several locations; and,
- Add right turn lanes.

As a result of the public meeting comments, the proposed project was redesigned. The raised medians were removed, and a continuous two-way turn lane was added throughout the length of the proposed project.

A notice of impending construction will be provided to owners of adjoining property and affected local governments and public officials. The notice may be provided via a sign or signs posted in the ROW, mailed notice, printed notice distributed by hand, or notice via website when the recipient has previously been informed of the relevant website address.

Public Meeting Summary Reports were prepared for the public meetings and are available for public review at the TxDOT Houston District office.

8.0 ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

This section summarizes the elements that constitute the environmental permits, issues, and commitments (EPICs) that are part of the construction plans, specifications, and estimate. The EPIC

documents environmental issues that require action by either TxDOT and/or the contractor prior to, or during construction. **Table 8-1** provides a list and brief explanation of the EPICs.

Table 8-1: Environmental Permits, Issues, and Commitments

Project Issues and Resources	Type of Impact	Environmental Permits, Issues, and Commitments (EPICs)
Noise	Traffic Noise Levels (Residential)	Noise barriers were found to be feasible and reasonable and are recommended for incorporation into the proposed project. The final decision to construct noise barriers will not be made until completion of project design, utility evaluation, and polling of adjacent property owners.
Water Quality	Storm Water Runoff from Construction	The following BMPs would be used on the proposed project: Temporary vegetation and/or sod for erosion control, vegetative filter strips for post-construction TSS controls and silt fencing for sediment control. Other approved BMPs may be substituted, if necessary, using one of the BMPs from the same category.
Texas Pollutant Discharge Elimination System	No Long-Term Water Quality Impacts	This project would include five or more acres of earth disturbance. TxDOT would comply with the TCEQ-TPDES-CGP. A SW3P would be implemented, and a construction site notice would be posted on the construction site. A NOI would be required. This proposed project is located within the boundaries of a regulated MS4 (City of Conroe).
Floodplains	Construction Impacts within the 100-year floodplain	The proposed project would not increase the base flood elevation to a level that would violate applicable floodplain regulations and ordinances. In cooperation with FEMA, TxDOT would conform to the standard for temporary and permanent fill set by FEMA. Coordination with the local Floodplain Administrator would be required.
Water Resources	USACE Permit	An IP is required for impacts to waters of the U.S., including wetlands. An IP application is being prepared. Compensatory mitigation would be required as part of the IP for permanent impacts to potential jurisdictional waters of the U.S., including wetlands. The IP would contain a statement describing how temporary losses of waters of the U.S. would be avoided and/or minimized to the maximum extent practicable.
Water Resources	Water Quality Certification	A Tier II Water Quality Certification Questionnaire and Alternative Analysis Checklist (Large Projects) is required and will be submitted with the IP.

Table 8-1: Environmental Permits, Issues, and Commitments

Project Issues and Resources	Type of Impact	Environmental Permits, Issues, and Commitments (EPICs)
Migratory Birds	MBTA	Swallow nests were observed during field investigations on bridges under existing roadways, most abundant at the Caney Creek Bridge. In the event that migratory birds are encountered on-site during proposed project construction, every effort would be made to avoid protected birds, active nests, eggs, and/or young. In case birds nest in the structures were to be affected by construction, the contractor would remove all old migratory bird nests between October 1 and February 15 from any structure where work would be done. In addition, the contractor would be prepared to prevent migratory birds from building nests between February 15 and October 1.
Wildlife	TPWD	Any disturbance beyond the normal conditions of the proposed project area is expected to be limited to the immediate vicinity of construction of the proposed corridor.
Wildlife	Best Management Practices	Contractors will be advised of the potential presence of transient Red-cockaded Woodpecker(s) within the proposed project area and to avoid harming the species if encountered. Contractors will also be advised that in the very rare event a Houston toad is encountered in the project area, they are to avoid harming it. In addition, Bird BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the Red-cockaded Woodpecker, Bachman's Sparrow, Swallow-tailed Kite, and the Wood Stork. The design and construction of the proposed project would include construction and post-construction BMPs to manage storm water runoff and control sediments; thereby protecting creek chubsucker habitat. In addition, the Fish BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. Tree Bat BMPs, as outlined in the BMP PA between TPWD and TxDOT, would be in place to minimize any potential to impact the species. Mussel BMPs would be implemented, as listed in the BMP PA between TxDOT and TPWD per the 2013 TxDOT/TPWD MOU, eliminating the requirement to coordinate for this species. Per the Mussel BMPs, on-site mussel survey would also be conducted to verify the presence or absence of the sandbank pocketbook.
Invasive Species and Beneficial Landscaping	Beneficial	In accordance with EO 13112 on Invasive Species, native plant species would be used in landscaping and in the seed mixes where practicable.

Table 8-1: Environmental Permits, Issues, and Commitments

Project Issues and Resources	Type of Impact	Environmental Permits, Issues, and Commitments (EPICs)
		Landscaping included with this project would be in compliance with the Executive Memorandum on Beneficial Landscaping and the guidelines for environmentally and economically beneficial landscape practices.
Hazardous Materials	Accidental Disturbance of Hazardous Materials	The contractor would take appropriate measures to prevent, minimize, and control spillage of hazardous materials in the construction staging area(s). All material being removed or disposed of by the contractor would be done in accordance with applicable State and federal laws as not to degrade ambient water quality. All of these measures would be enforced under appropriate specifications in the plan, specification, and estimate stage of project development.
Hazardous Materials	Additional Investigations and Avoidance	Two service stations within the proposed project are recommended for a Phase II Environmental Site Assessment: 1) Map ID 16: Crystal Creek Market/Shopping Center and AmeriGas Propane located at 11925 Highway 105 East, Conroe, TX, and 2) Map ID 21: EZ Mart 5/Super Stop 4 located at 11487 Highway 105 East, Conroe, TX. In addition, one superfund site requires avoidance: 1) Map ID 58: Conroe Creosoting Company located at 1776 E. Davis Street, Conroe, TX.
Hazardous Materials	Asbestos and/or Lead-based Paint	Because the proposed project would: 1) demolish and/or renovate multiple bridges and overpasses; 2) demolish buildings located within the proposed ROW; and 3) acquire areas that may contain asbestos or lead-based paint, all asbestos and lead-based paint inspections, specifications, notifications, licenses, accreditations, abatement, and disposal (as applicable) would be performed in compliance with federal and state regulations.
Construction	Traffic Detouring, Temporary Noise and Dust, etc.	Plans to ensure safe and efficient traffic flow during construction would be developed as part of the detailed construction plans for the proposed improvements. Other construction related activities (e.g., temporary air and noise effects) would be addressed in compliance with standard TxDOT policies and procedures.
Construction	Traffic Control	Reasonable measures would be taken to minimize the inconvenience to the vehicles using the roadway during the construction phase. Residential and business properties would be accessible during and after construction. The

Table 8-1: Environmental Permits, Issues, and Commitments

Project Issues and Resources	Type of Impact	Environmental Permits, Issues, and Commitments (EPICs)
		proposed project would improve the safety, efficiency, and operations of the roadway.

Source: Jacobs, 2018.

9.0 CONCLUSION

TxDOT recommends the Build Alternative as the Preferred Alternative. The Preferred Alternative would meet the proposed project's purpose and need for increased capacity, mobility, and safety of the roadway. The Preferred Alternative would not result in a significant impact on the human or natural environment. Therefore, a Finding of No Significant Impact is recommended.

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11.0 APPENDICES

Appendix A – Project Location Maps

- Exhibit 1-Project Location Map
- Exhibit 2- U.S. Geological Survey Map

Appendix B – Project Photos

Appendix C – Schematics

Appendix D – Typical Sections

Appendix E – Plan and Program Excerpts

Appendix F – Resource-specific Maps

- Exhibit 1-Texas Trunk System Map
- Exhibit 2-Displacements, Adjacent Properties & Community Facilities Map
- Exhibit 3-Sam Houston National Forest Map
- Exhibit 4-Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map
- Exhibit 5-GeoSearch (Hazardous Materials) Radius, Water Well, and Oil and Gas Reports (Excerpts)
- Exhibit 6-Noise Receiver and Barrier Locations Map

Appendix G – Resource Agency Coordination

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Appendix A – Project Location Maps

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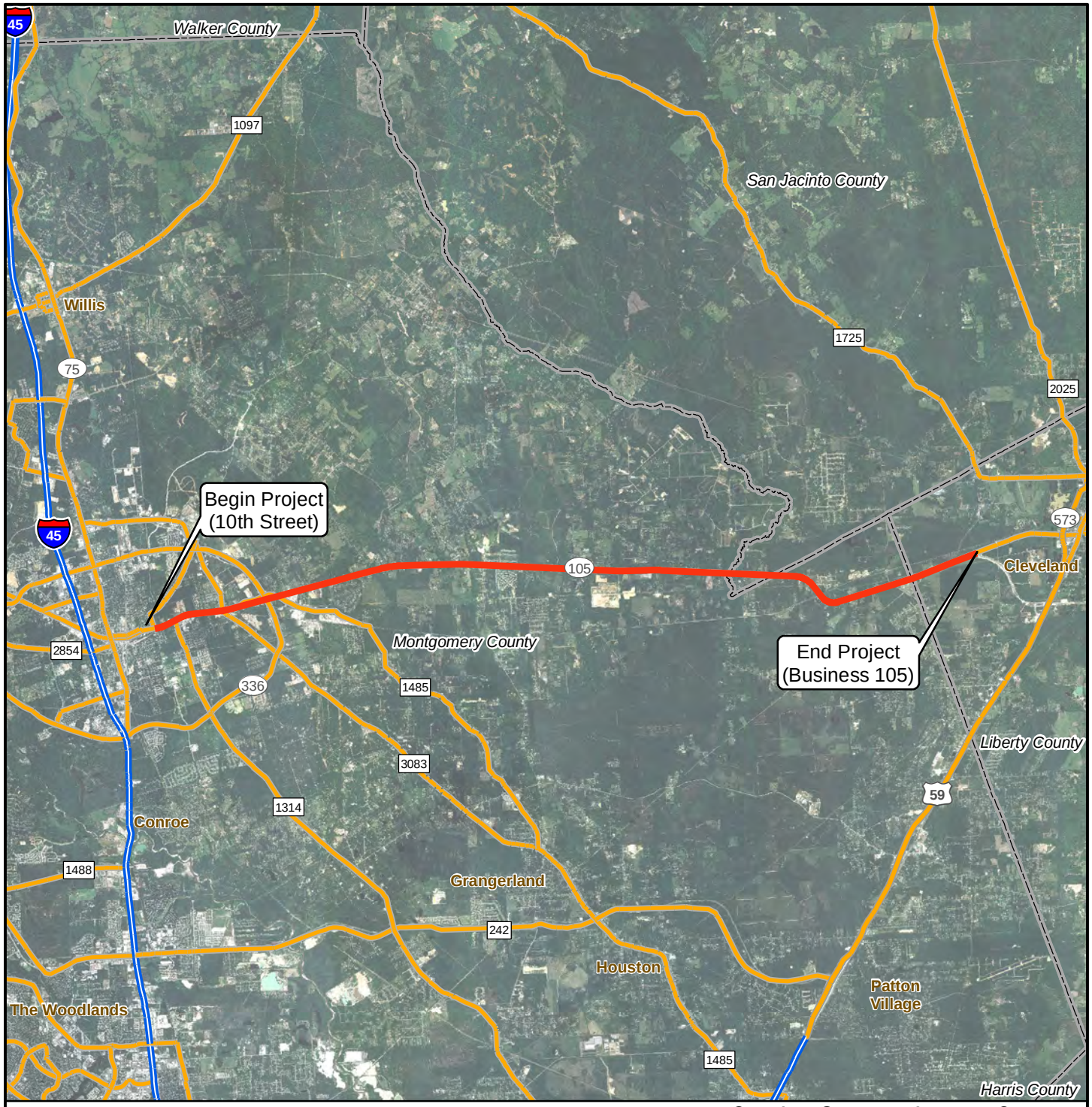

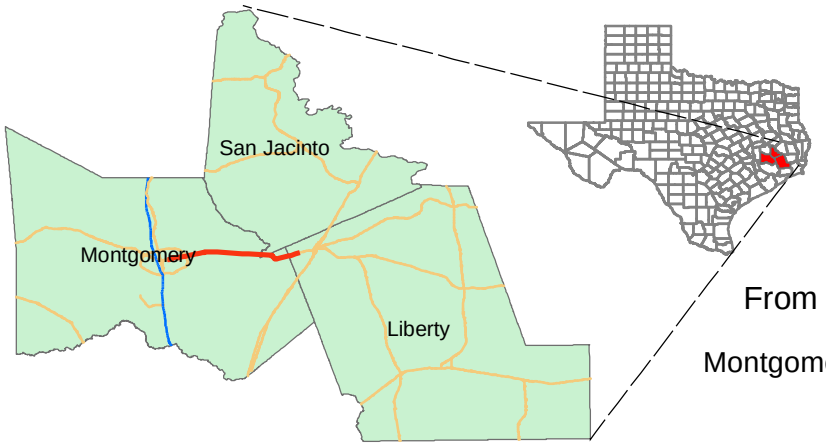

0 1 2 4 6 Miles

N
W E
S

SH 105
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 1: Project Location Map

Base Photo: TNRIS (2015)

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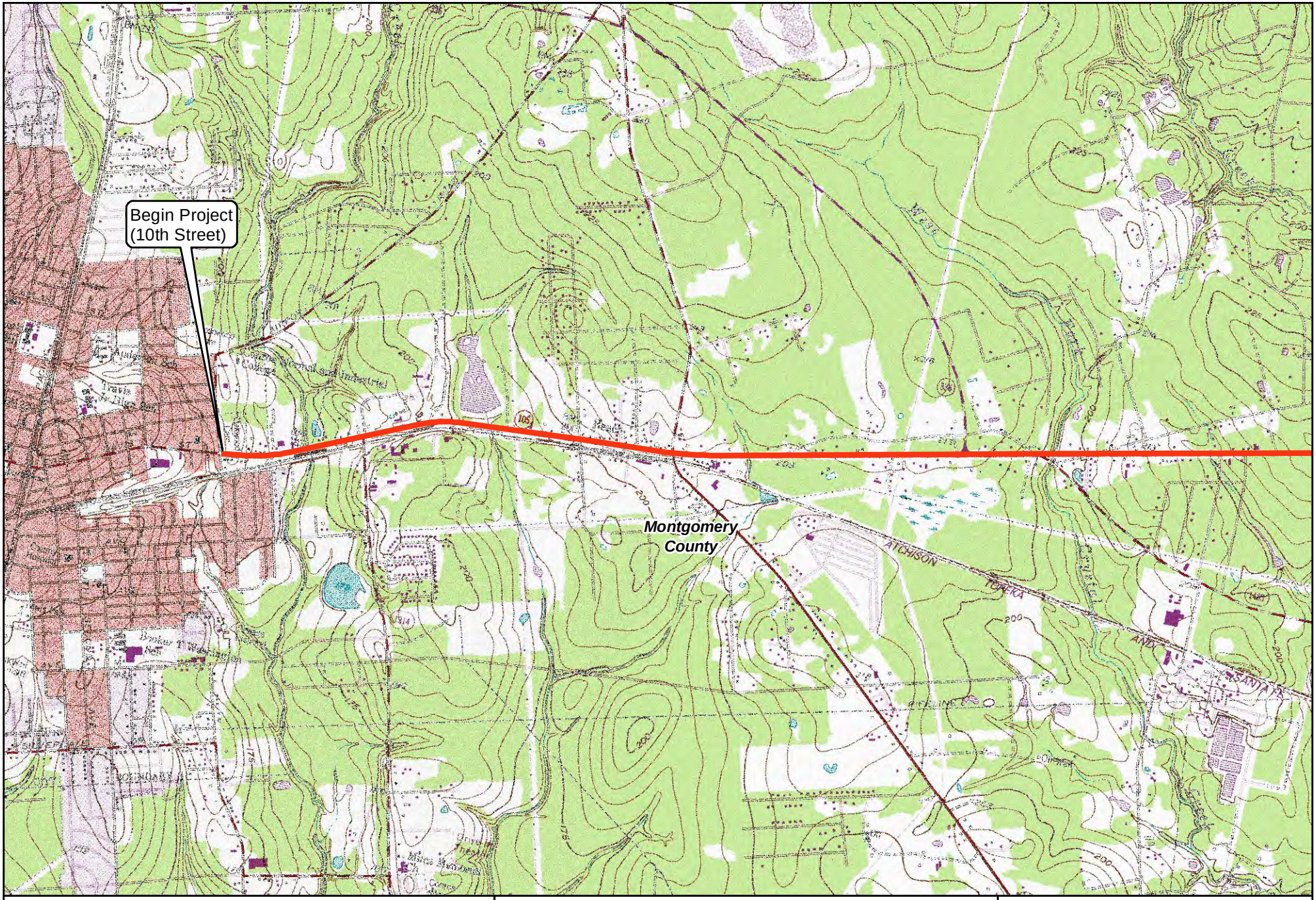


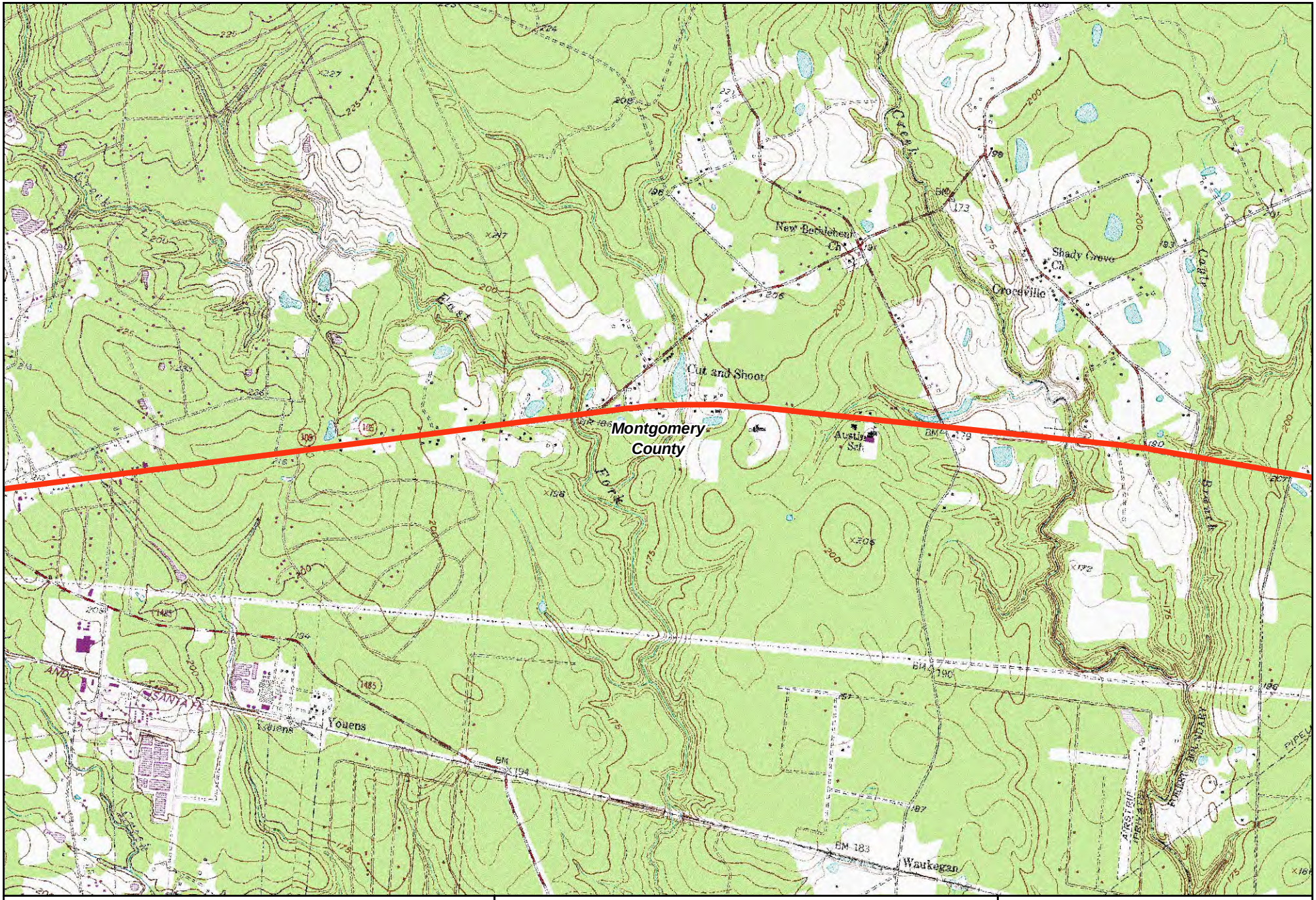
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Exhibit 2: USGS Map

Legend
Project Alignment
County Boundary

N
W
E
S

0 2,000 4,000 Feet

Base Photo: USGS QUADS Cleveland, TX 1958 Photo Revised 1976; Conroe, TX 1958 Photo Revised 1976 ; Cut and Shoot, TX 1959 Photo Revised 1976; & Fostoria, TX 1958 Photo Revised 1976 (TNRIS 2015)



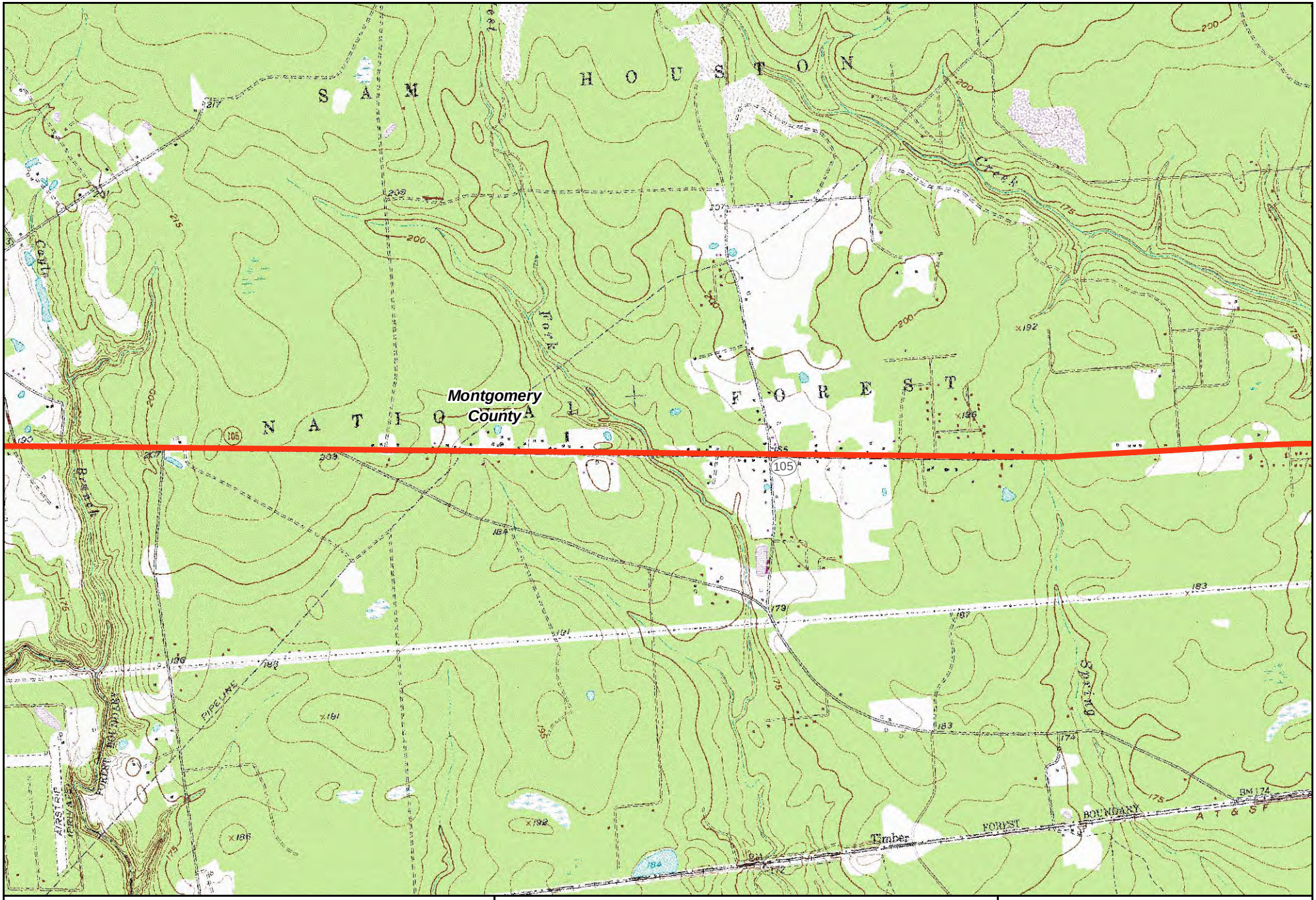
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Exhibit 2: USGS Map

Legend
Project Alignment
County Boundary

N W E S

0 2,000 4,000 Feet

Base Photo: USGS QUADS Cleveland, TX 1958 Photo Revised 1976; Conroe, TX 1958 Photo Revised 1976 ; Cut and Shoot, TX 1959 Photo Revised 1976; & Fostoria, TX 1958 Photo Revised 1976 (TNRIS 2015)



SH 105

From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 2: USGS Map

Legend

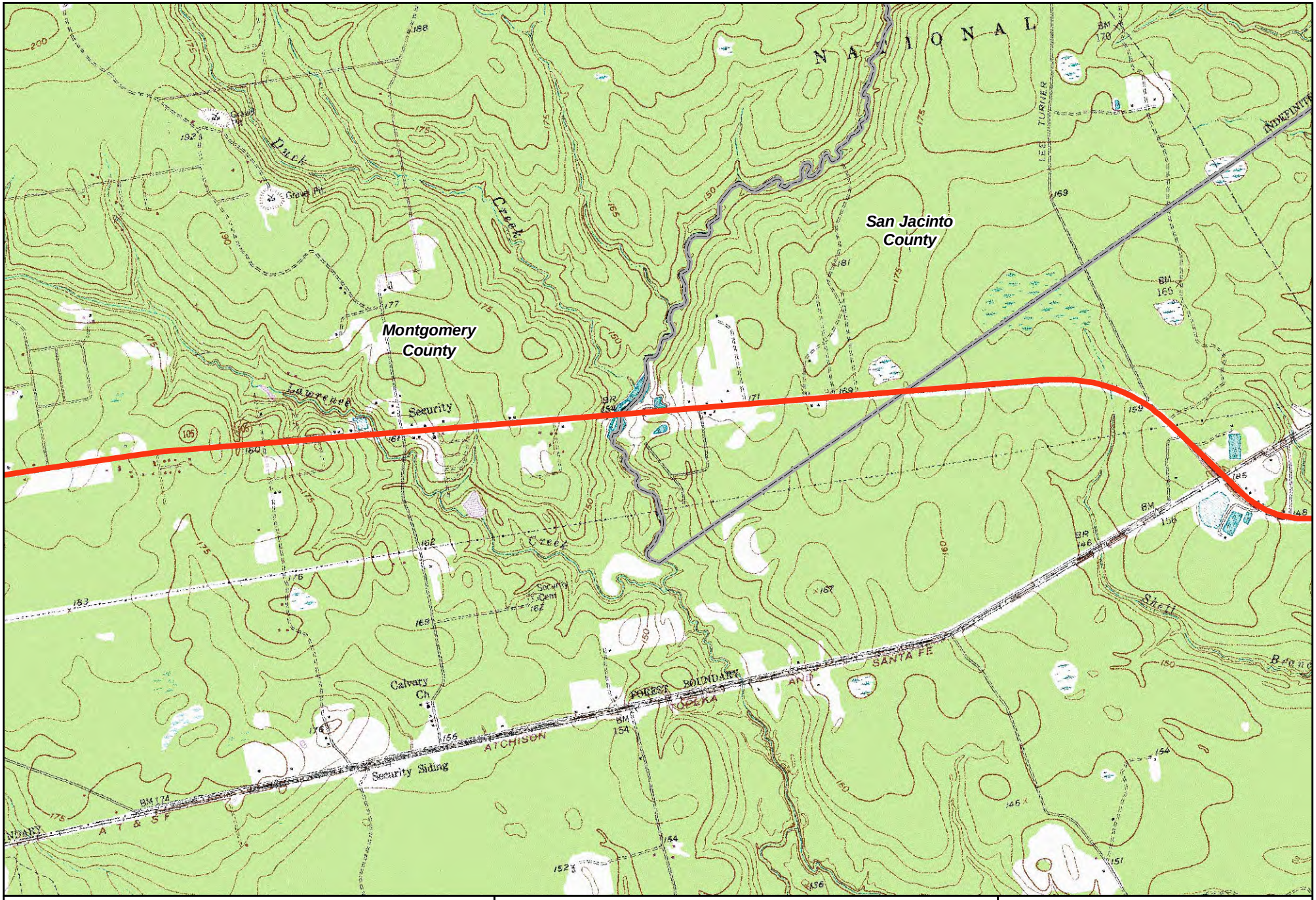
Project Alignment

County Boundary

N W E S

0 2,000 4,000 Feet

Base Photo: USGS QUADS Cleveland, TX 1958 Photo Revised 1976; Conroe, TX 1958 Photo Revised 1976 ; Cut and Shoot, TX 1959 Photo Revised 1976; & Fostoria, TX 1958 Photo Revised 1976 (TNRIS 2015)



SH 105

From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 2: USGS Map

Legend

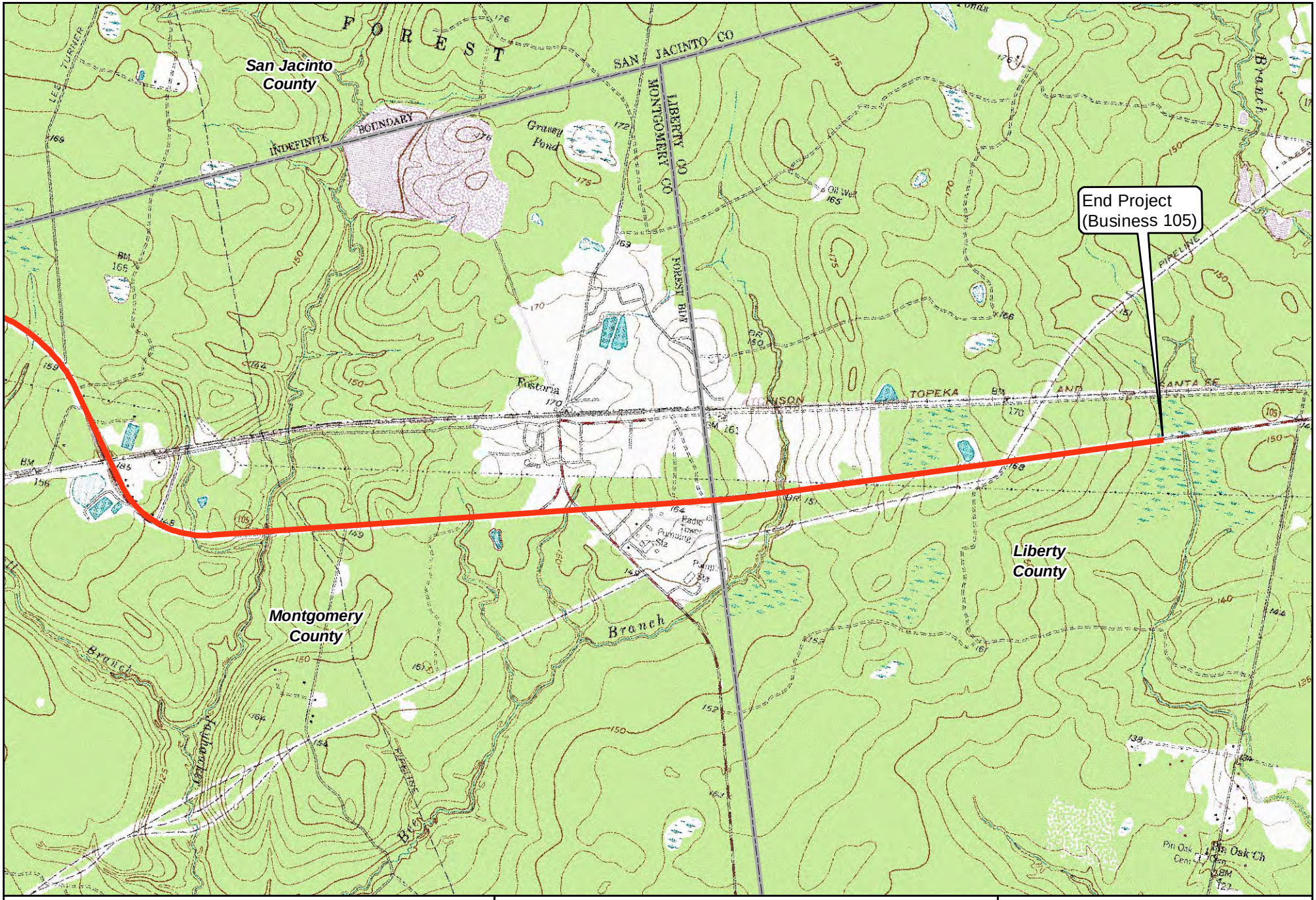
Project Alignment

County Boundary

N W E S

0 2,000 4,000 Feet

Base Photo: USGS QUADS Cleveland, TX 1958 Photo Revised 1976; Conroe, TX 1958 Photo Revised 1976 ; Cut and Shoot, TX 1959 Photo Revised 1976; & Fostoria, TX 1958 Photo Revised 1976 (TNRIS 2015)



SH 105

From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 2: USGS Map

Legend

Project Alignment

County Boundary

N W E S

0 2,000 4,000 Feet

Base Photo: USGS QUADS Cleveland, TX 1958 Photo Revised 1976; Conroe, TX 1958 Photo Revised 1976 ; Cut and Shoot, TX 1959 Photo Revised 1976; & Fostoria, TX 1958 Photo Revised 1976 (TNRIS 2015)

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Appendix B – Project Photos

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SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east to the SH 105/10th Street intersection (Station [STA] 50+00)

Viewing west to the SH 105/10th Street intersection (STA 50+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing north to Oakwood Cemetery, east of the SH 105/10th Street intersection
(STA 50+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east at Oakwood Cemetery from the SH 105/10th Street intersection (STA 50+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing south from 10th Street to the SH 105/10th Street intersection (STA 50+00)

Viewing north from FM 1314 to the SH 105/FM 1314 intersection (STA 77+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing west from FM 1314 to the Sante Fe Railway, south of SH 105 (STA 77+00)

Viewing east to the SH 105/FM 1314 intersection (STA 77+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east from the SH 105/FM 3083 intersection (STA 135+00)

Viewing west from the SH 105/FM 3083 intersection (STA 135+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east, east of the SH 105/FM 3083 intersection (STA 136+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing south to Christian Fellowship House of Prayer (Forfeited existence 3/26/1998)
(STA 142+00)

Viewing southwest to Christian Fellowship House of Prayer (Forfeited existence 3/26/1998)
(STA 142+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east to the SH 105/Loop 336 intersection (STA 188+00)

Viewing west to the SH 105/Loop 336 intersection (STA 188+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east to the SH 105/FM 1485 intersection (STA 205+00)

Viewing east, east of the SH 105/FM 1485 intersection (STA 208+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east to the SH 105/Crystal Forest Drive intersection (STA 270+00)

Viewing west from the SH 105/Crystal Forest Drive intersection (STA 270+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing north to the Centro Cristiano Libertad church (STA 330+00)

Viewing north to the Cut "N" Shoot Town Park (358+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing north to the Cut and Shoot City Hall (STA 358+00)

Viewing east in Cut and Shoot (STA 358+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing west in Cut and Shoot (STA 358+00)

Viewing north to the Cut-N-Shoot Volunteer Fire Department Station 21 (362+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing south to Stephen F. Austin Elementary School (STA 377+00)

Viewing east to the SH 105/FM 1484 intersection (STA 428+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing north to FM 1484 (STA 428+00)

Viewing west to the SH 105/FM 1484 intersection (STA 428+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing north to Lifestyle Community Church (STA 488+00)

Viewing northeast to the Frontier Market (STA 570+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east (STA 570+00)

Viewing southeast to Cut-N-Shoot (Open Arena) Cowboy Church (STA 580+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing southeast to Iglesia Bautista Independiente (Independent Baptist Church)
Closed in 2009 (STA 587+00)

Viewing south to Security Community Center and Cut-N-Shoot Volunteer Fire Department
(STA 588+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing south to Cut–N-Shoot Volunteer Fire Department Station 22 (STA 589+00)

Viewing south to Waste Management's Security Landfill (Type 1 Landfill) (STA 590+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing southeast to entrance of Olde Security Square Flea Market (STA 651+00)

Viewing east at Lawrence Creek (STA 703+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east in Security, Taqueria encroachment (STA 713+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east to Security First Baptist Church (STA 715+00)

Viewing east to San Jacinto County Line and Peach Creek (STA 748+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing west at the SH 105/Magnolia Road intersection (STA 763+00)

Viewing east in Security (STA 765+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east at the San Jacinto/Montgomery County Line (STA 800+00)

Viewing east at Jayhawker Creek (STA 901+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing west at Jayhawker Creek (STA 901+00)

Viewing north at the SH 105/Fostoria Road intersection (STA 960+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing west at the SH 105/Fostoria Road intersection (STA 960+00)

Viewing east at the SH 105/Fostoria Road intersection (STA 960+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east at the Montgomery County/Liberty County Line (STA 984+00)

Viewing north at the SH 105/Business 105 intersection (STA 1068+00)

SH 105: 10TH Street in Conroe to Business 105
Site Photographs

Viewing east from the SH 105/Business 105 intersection (STA 1068+00)

Viewing west from the SH 105/Business 105 intersection (STA 1068+00)

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Appendix C – Schematics

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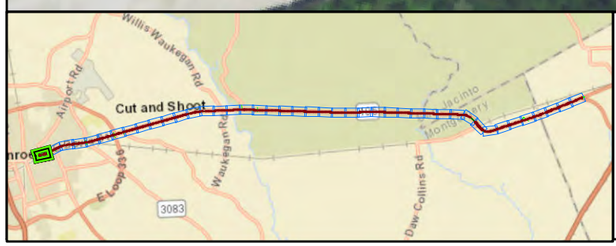


Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

N Magnolia Dr
Orchard Ln
Beach Airport Rd
N 82° 42' 12.59" E
110+00
115+00
120+00
SH 105
125+00
130+00
135+00
BNSF Rail
Branham Dr
Fm 3083
S Magnolia Dr
Woolridge Dr

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Beach Airport Rd

Tributary of Little Caney Creek

PI 145+25.56

135+00

140+00

145+00

SH 105

150+00

155+00

160+00

Branham Dr

BNSF Rail

Fm 3083

Woolridge Dr

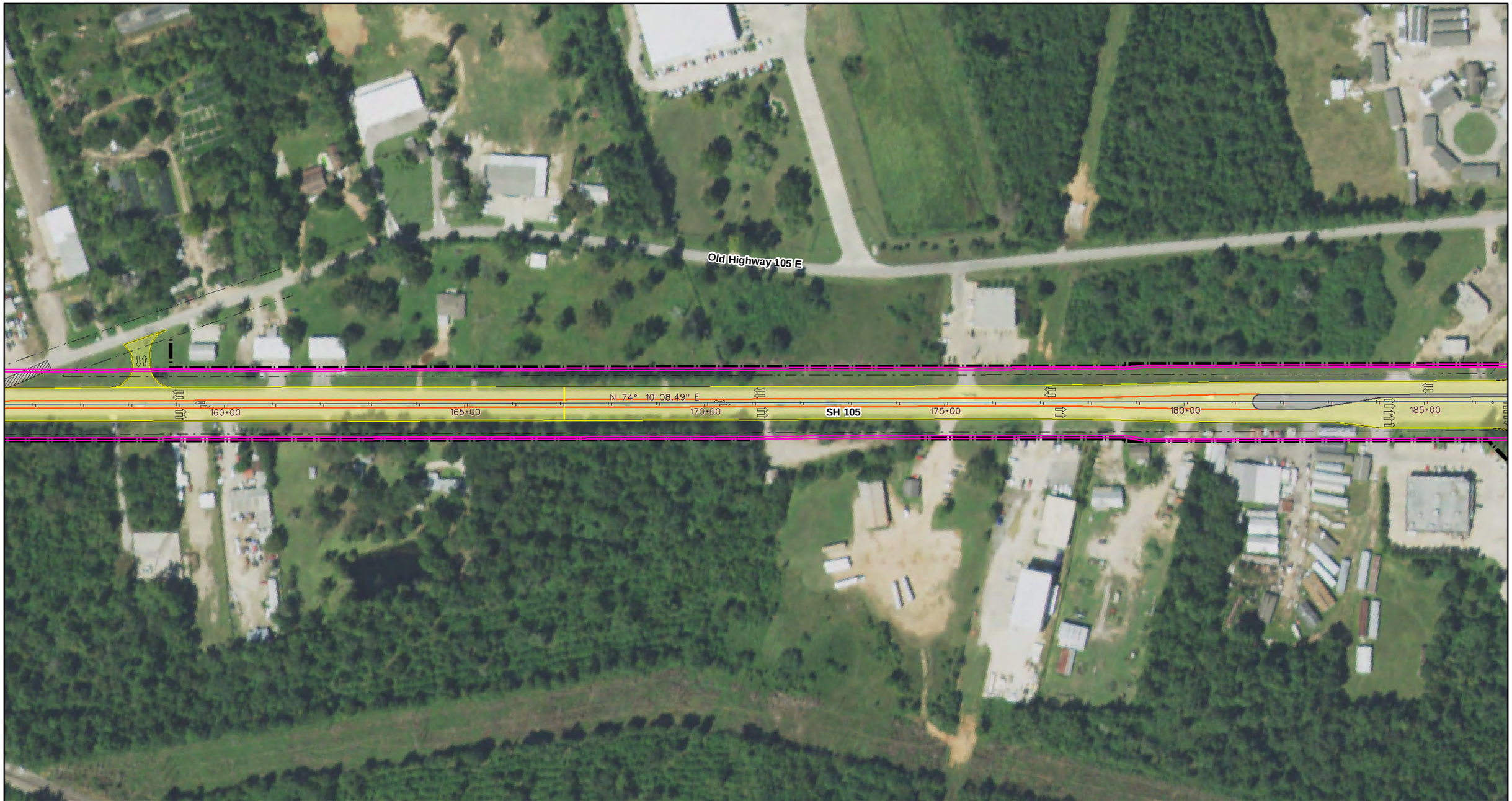
Legend

Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



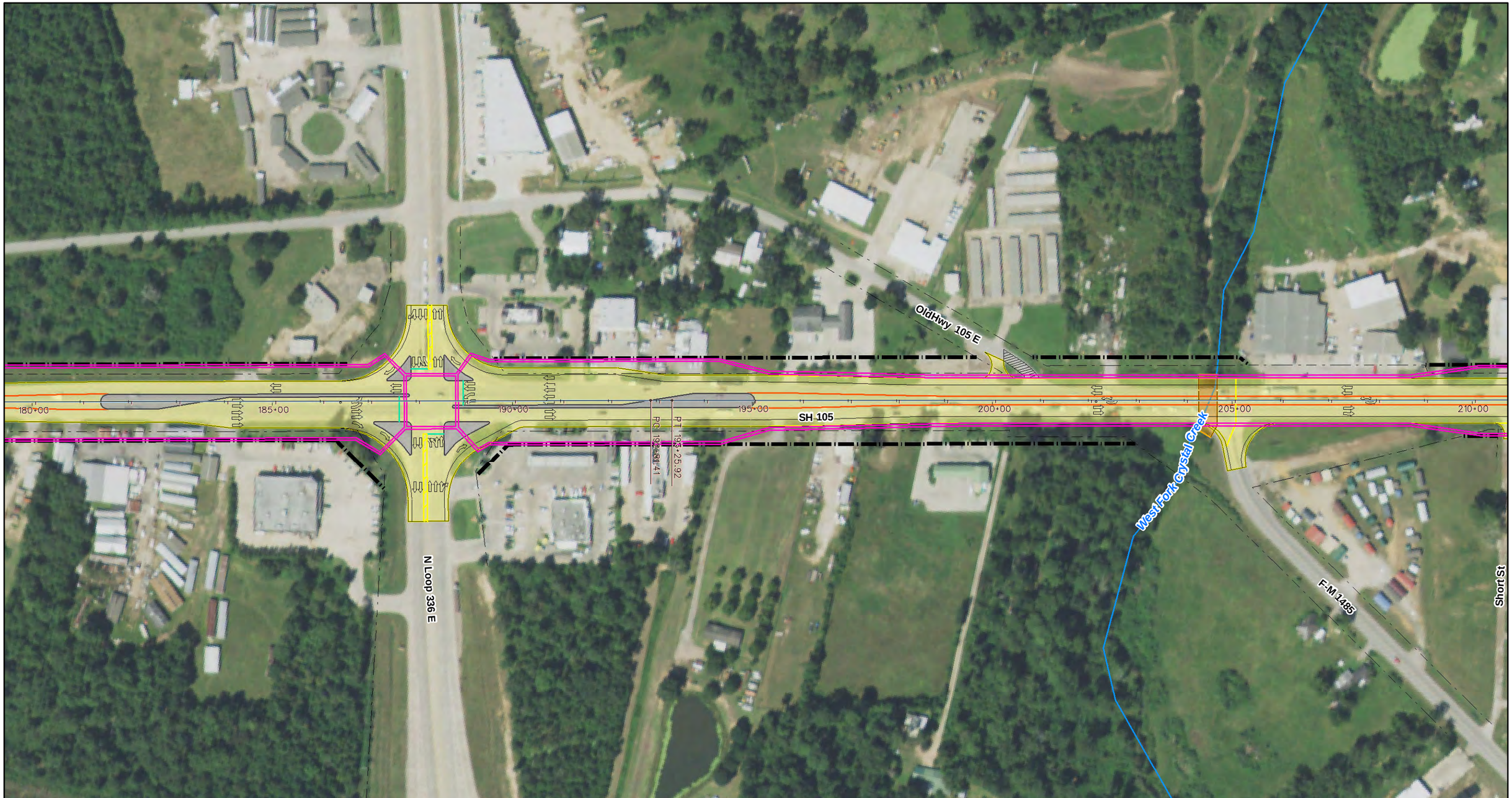
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



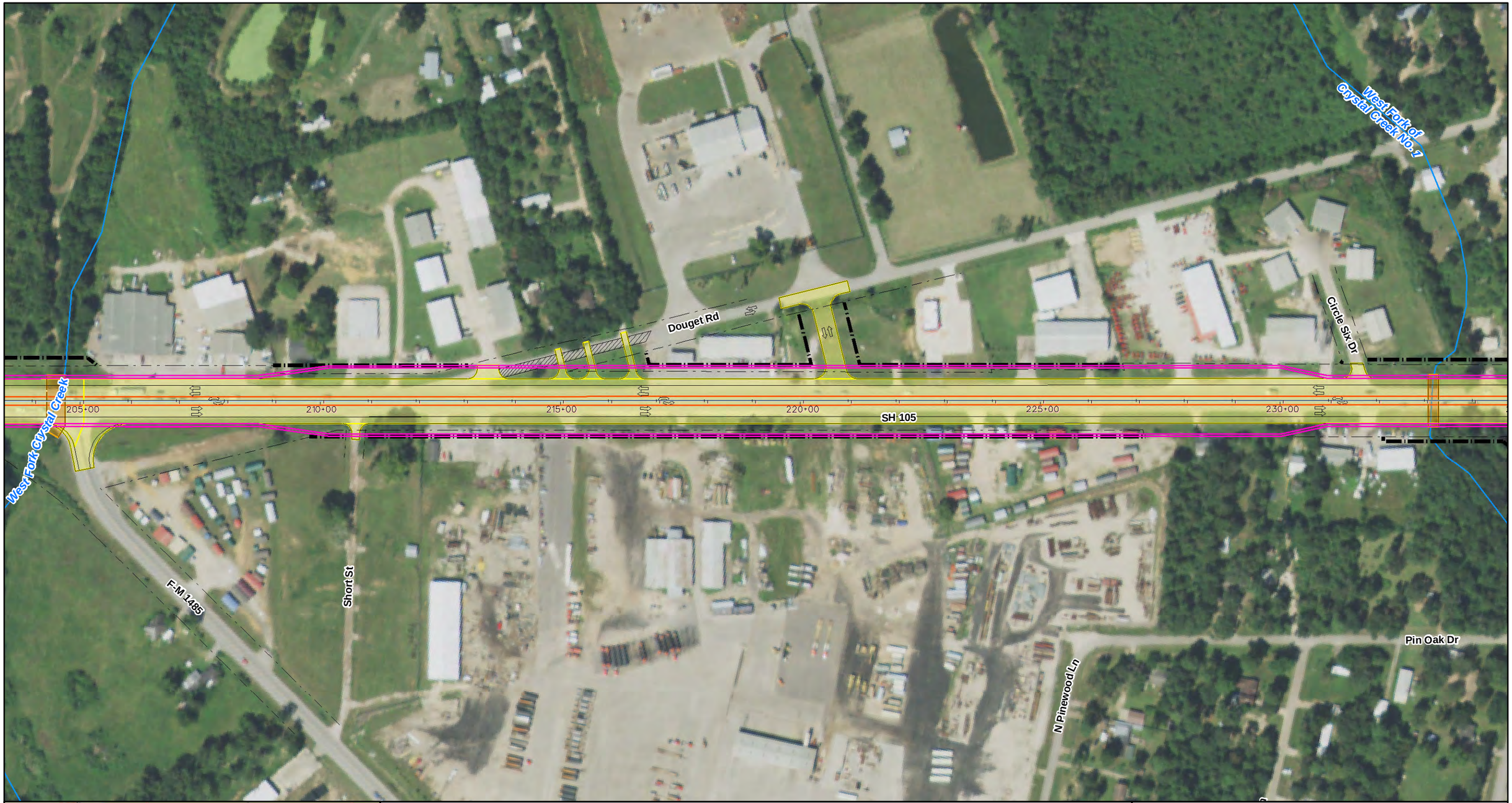
Legend

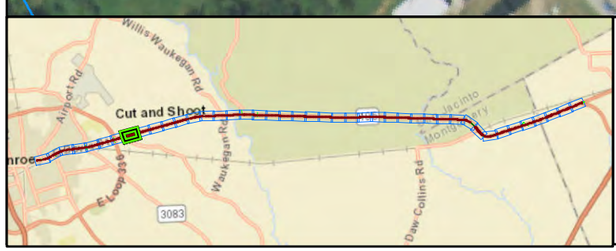
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





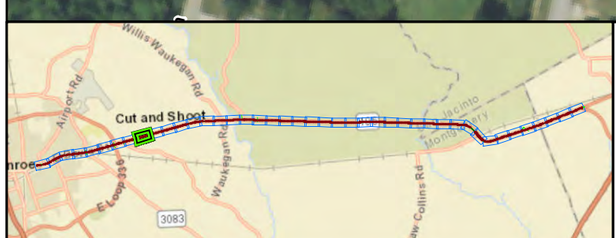
Legend

Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



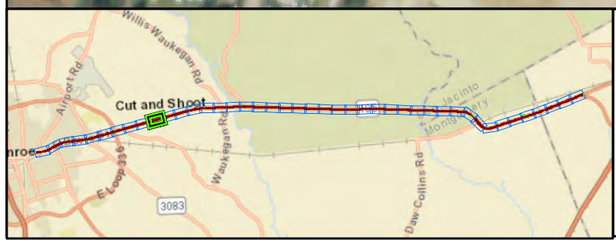
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



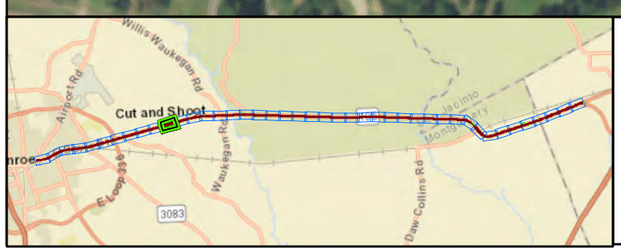
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



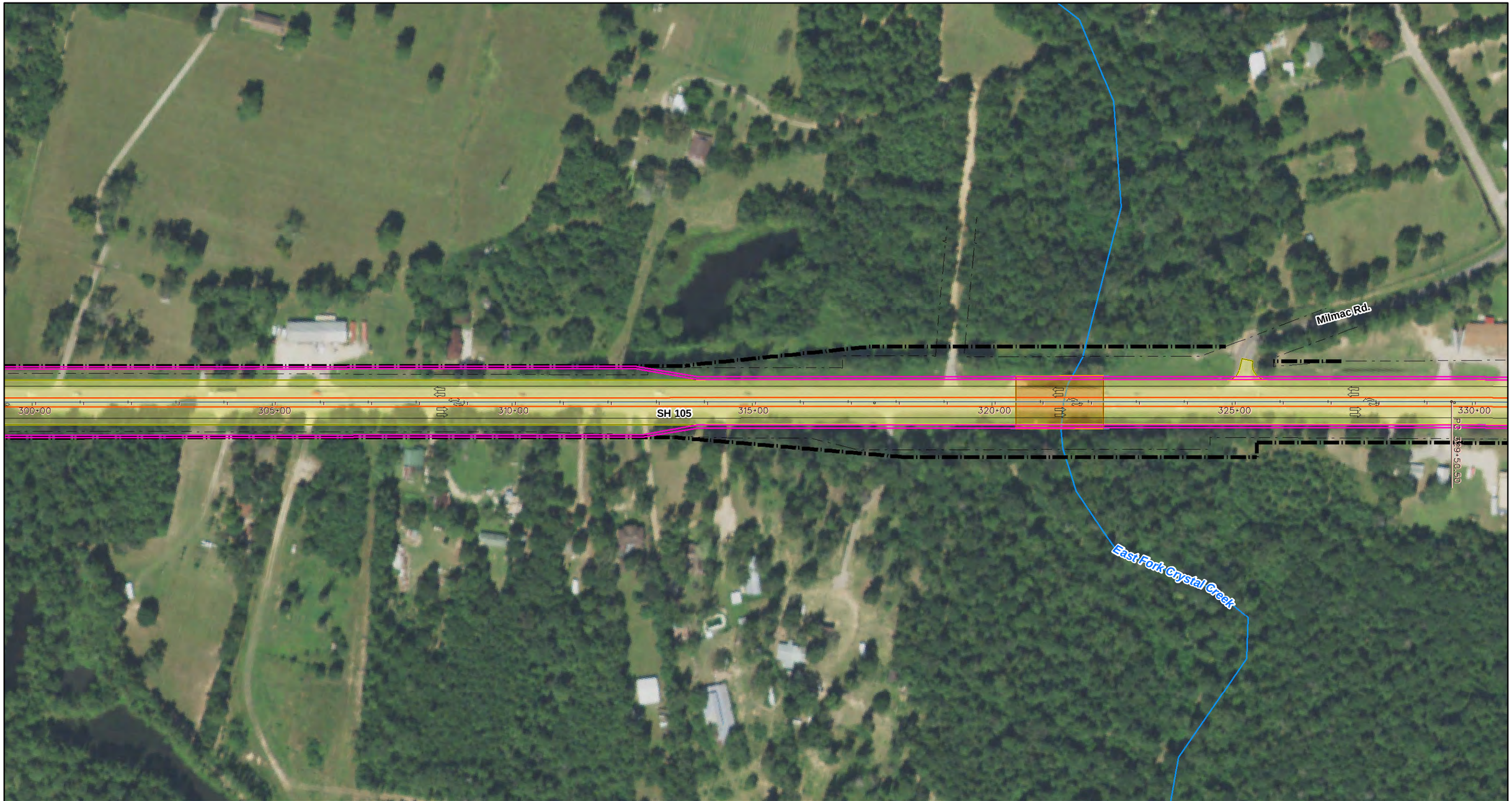
Legend

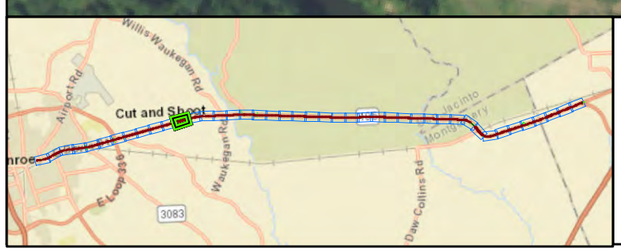
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





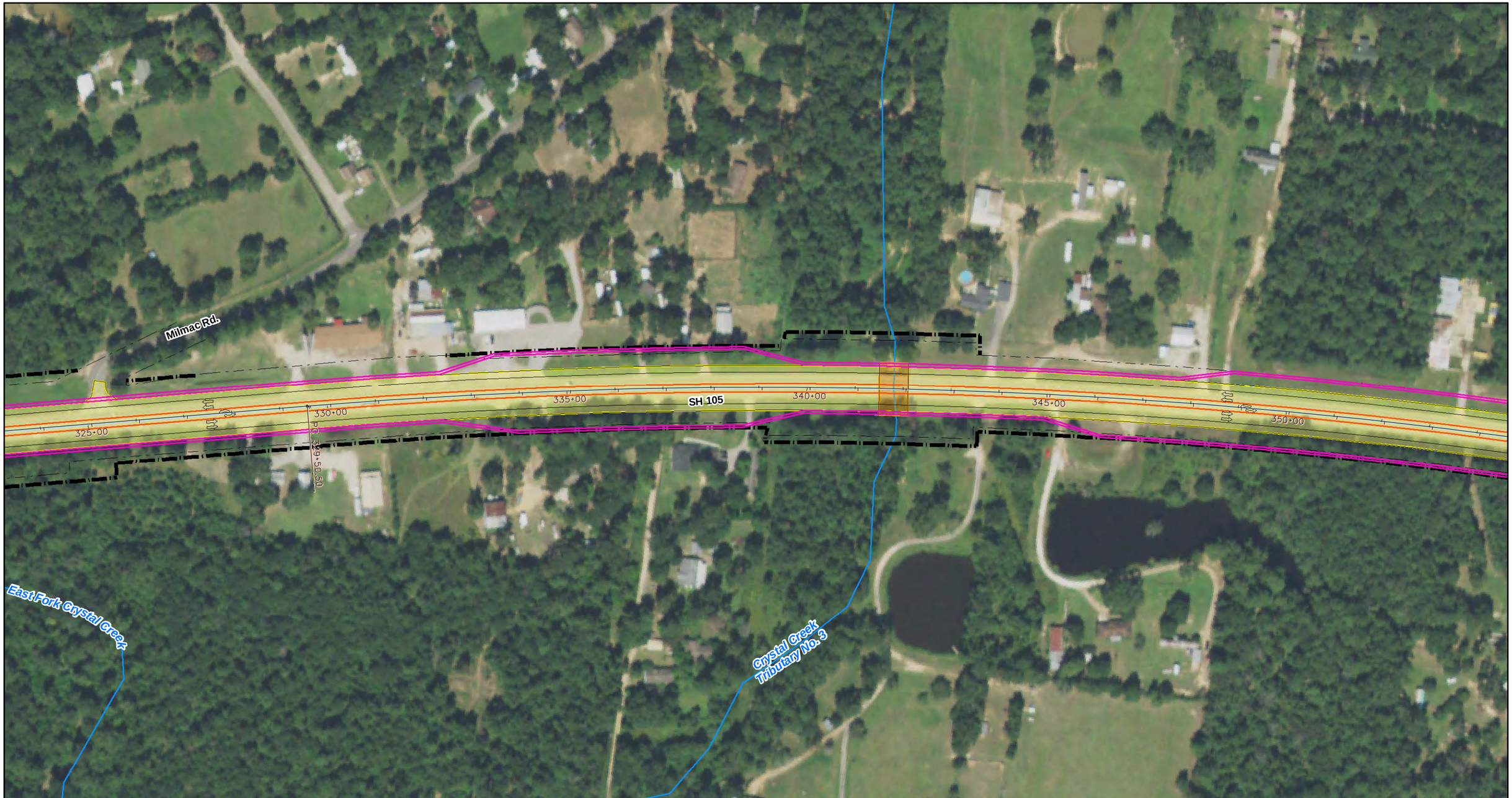
Legend

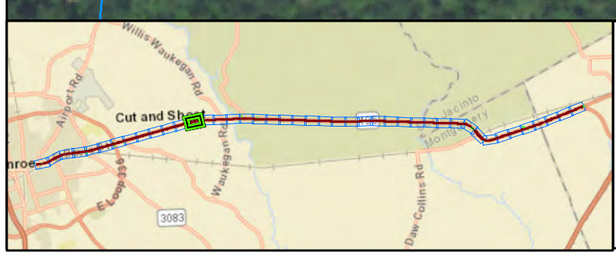
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





Legend

Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Woodridge Dr

Woodgreen Ln

Unnamed Drainage of Caney Creek

350+00

355+00

360+00

SH 105

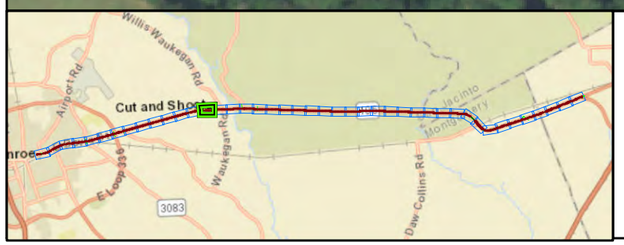
365+00

370+00

375+00

PI 356+87.33

Austin Elem



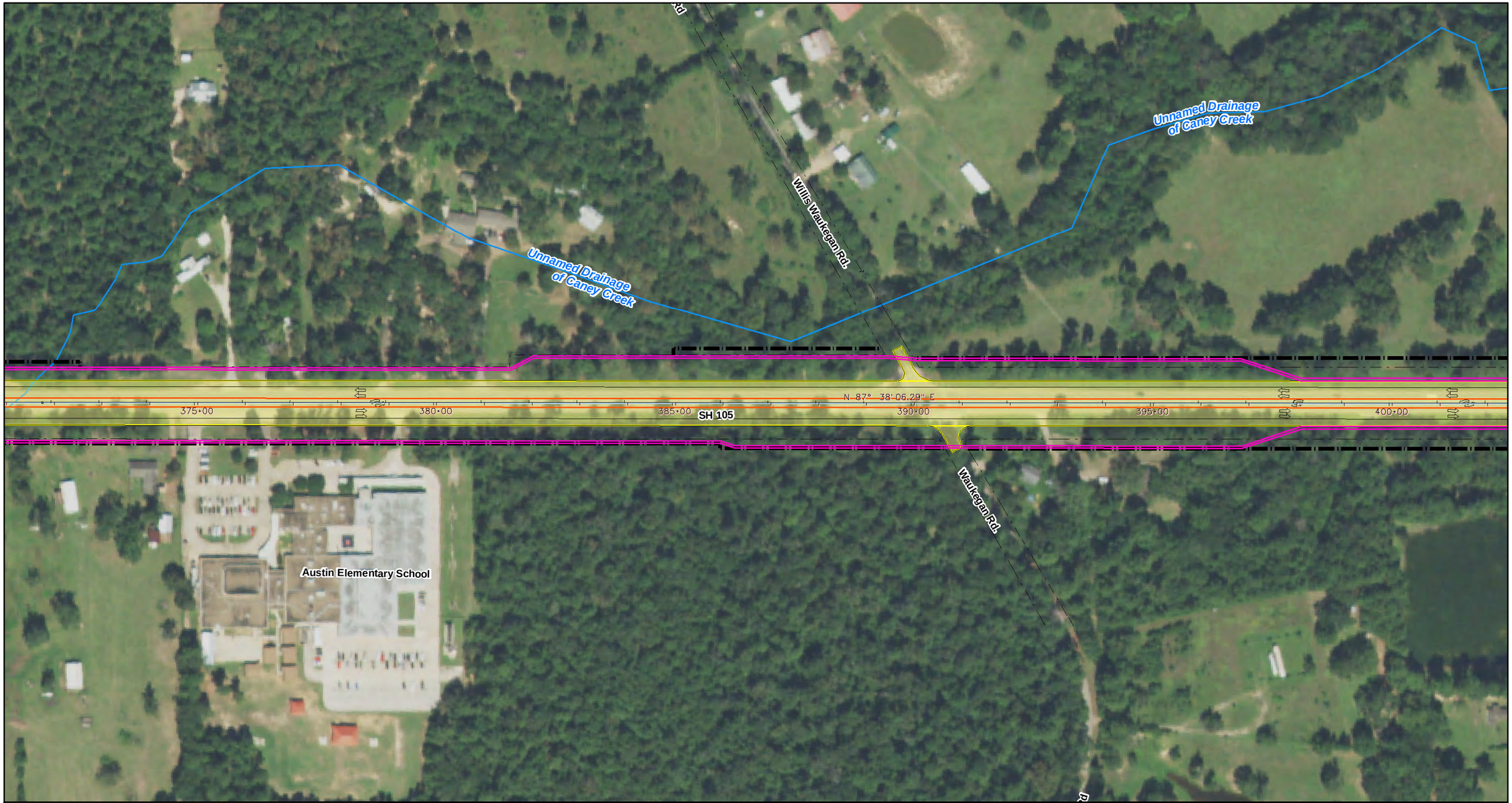
Legend

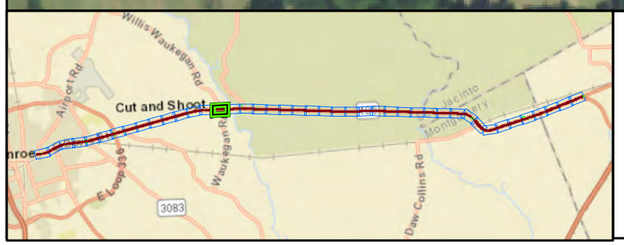
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





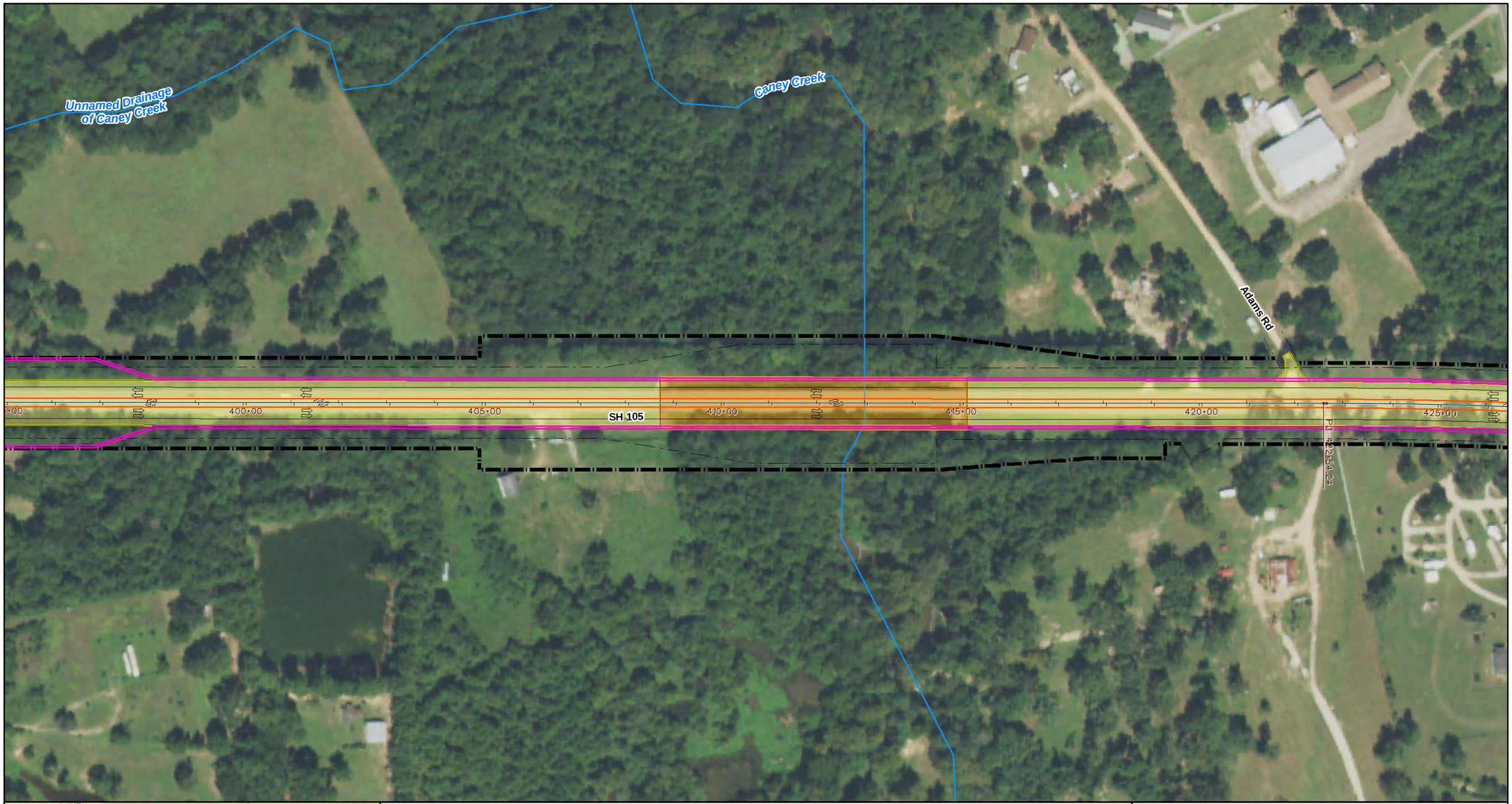
Legend

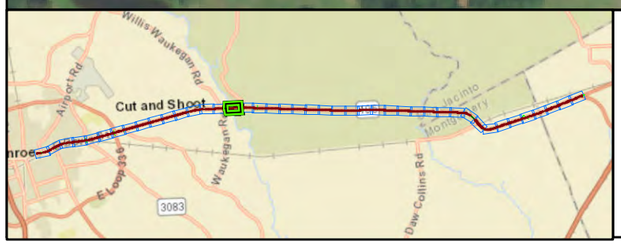
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





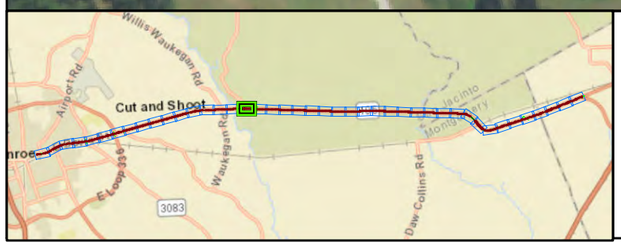
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



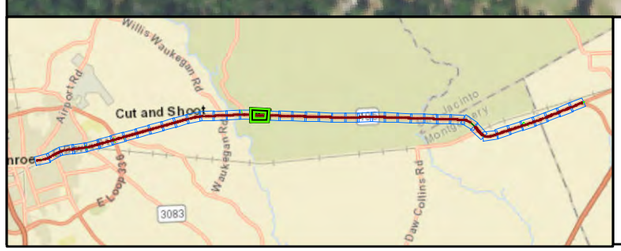
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



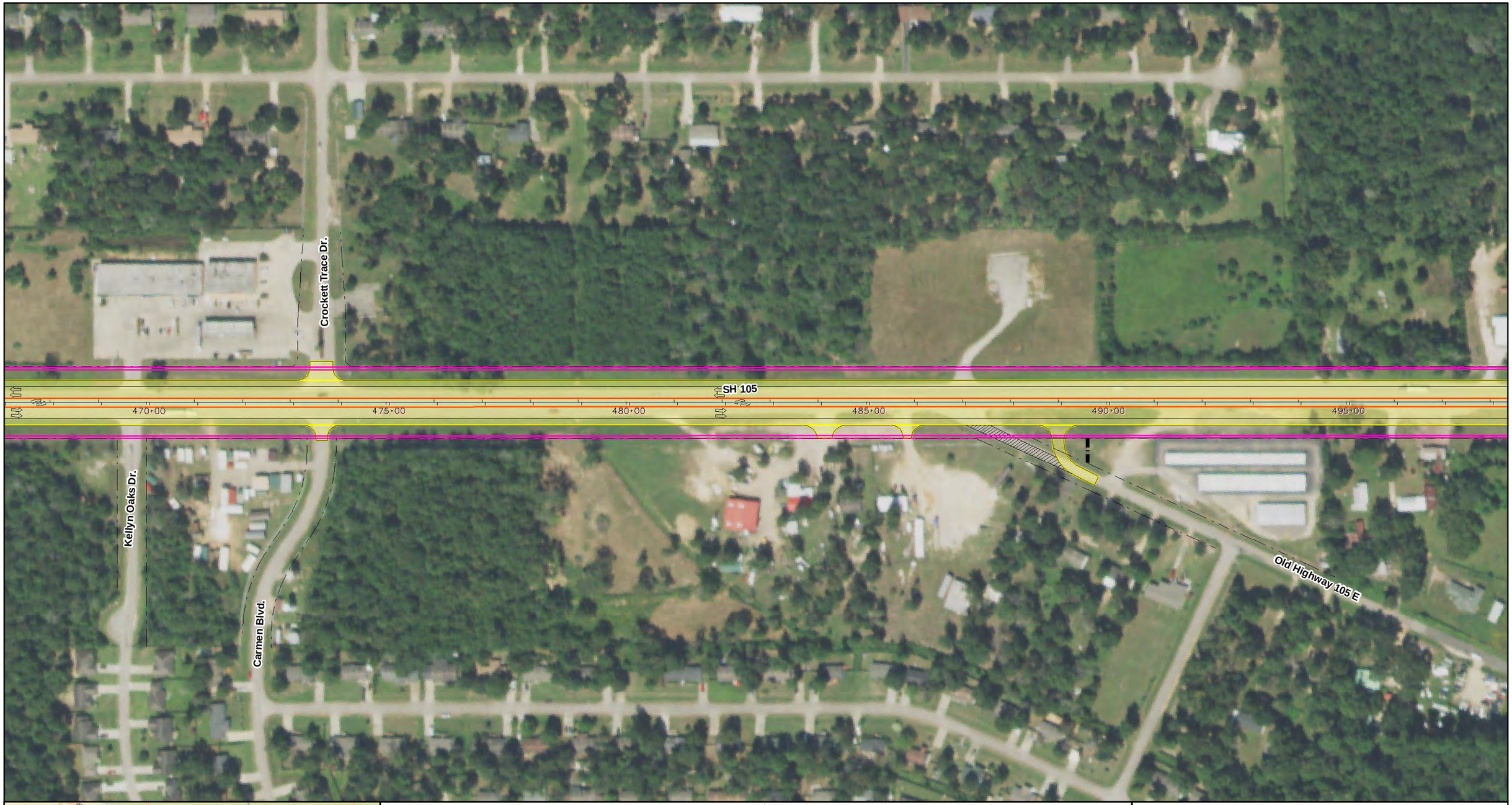
Legend

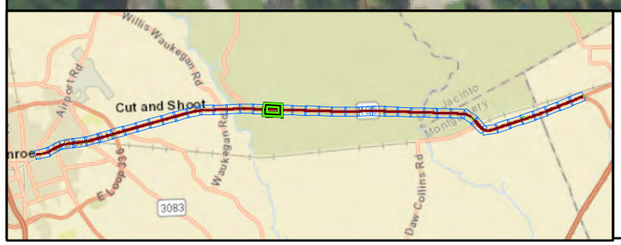
Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





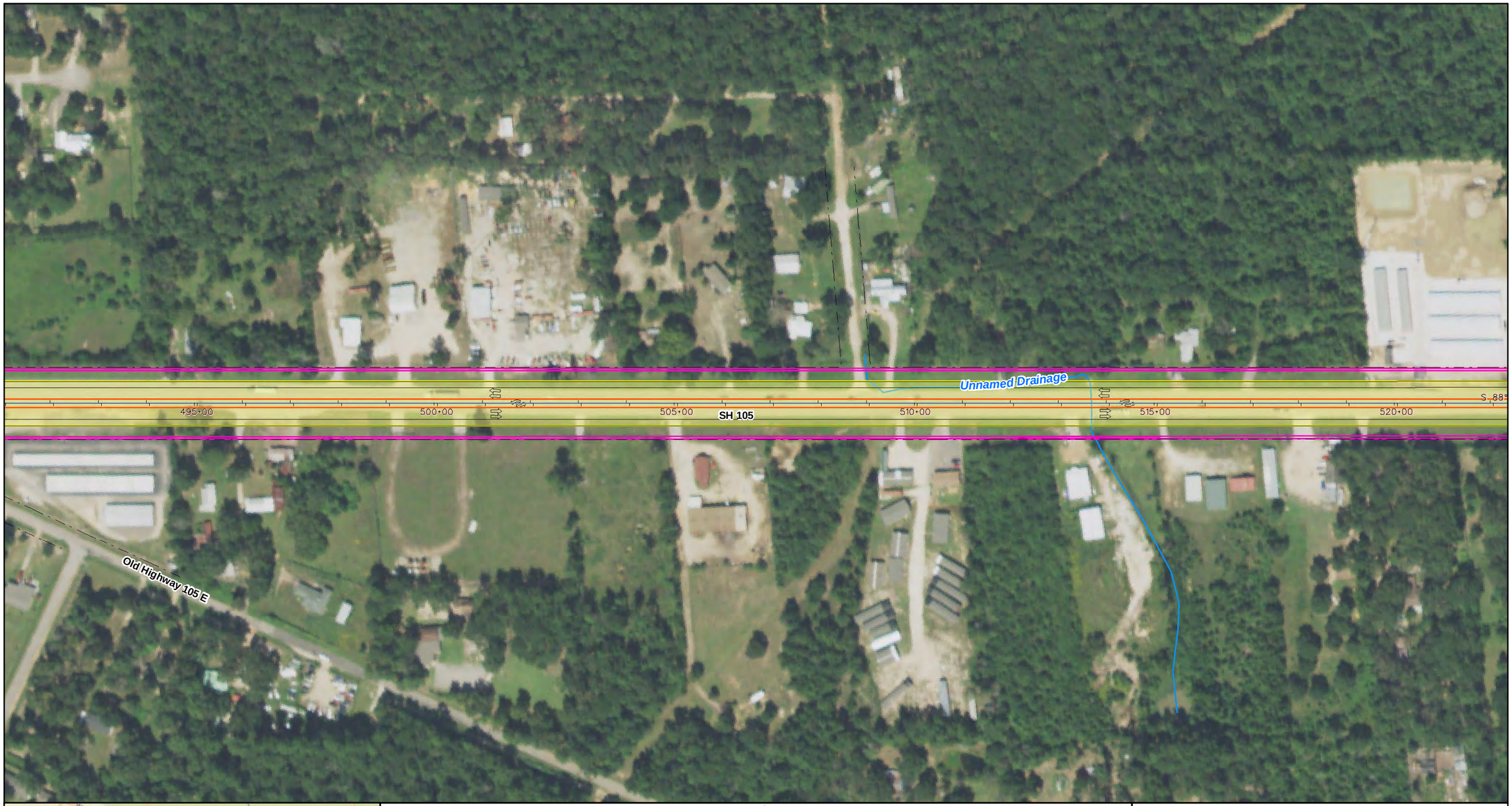
Legend

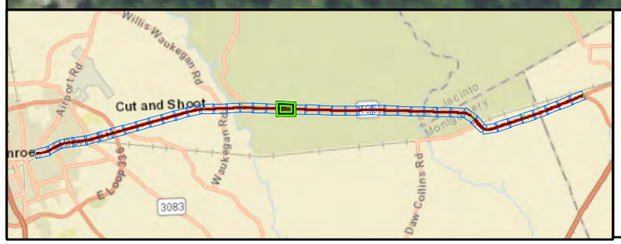
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





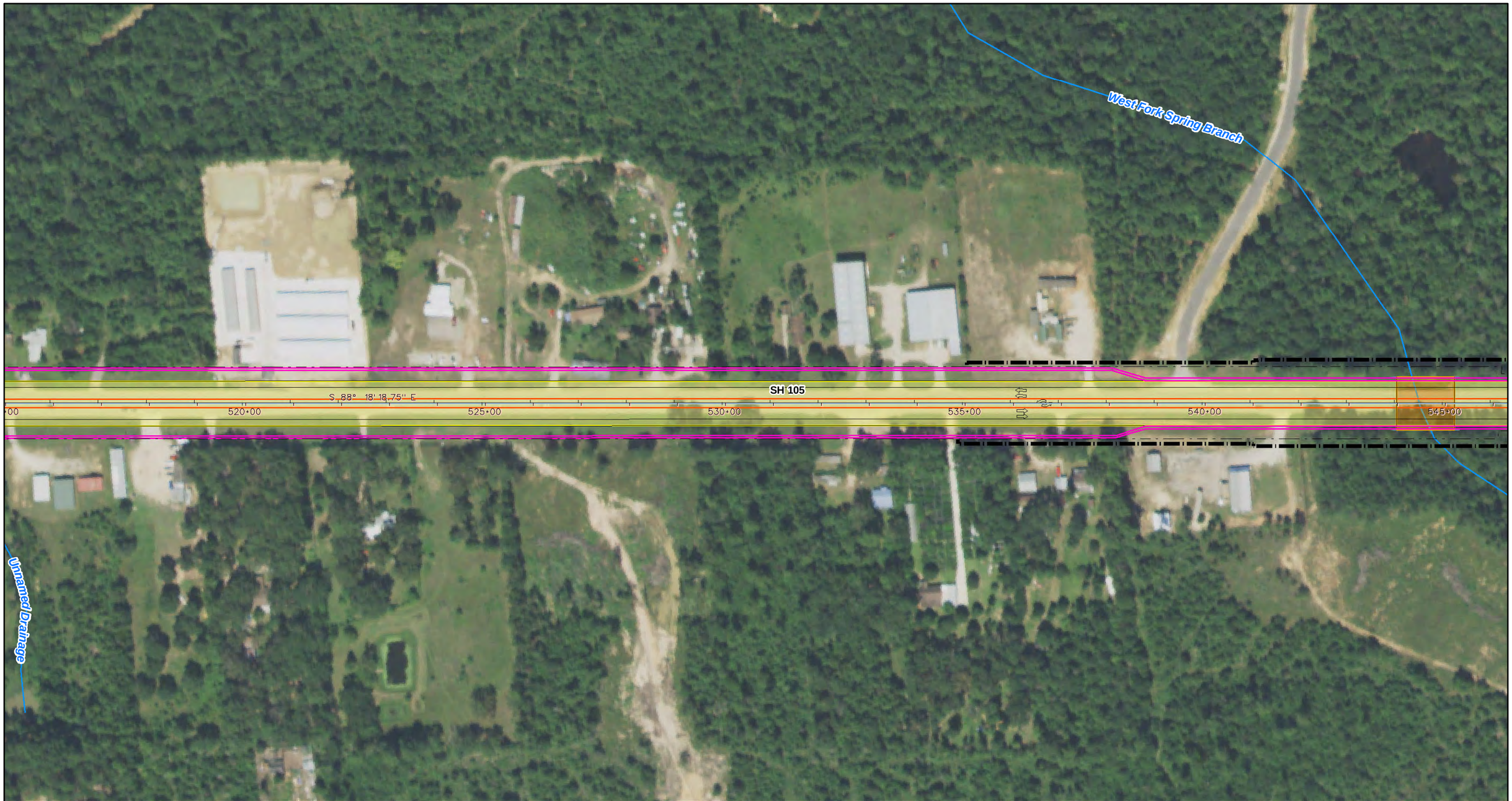
Legend

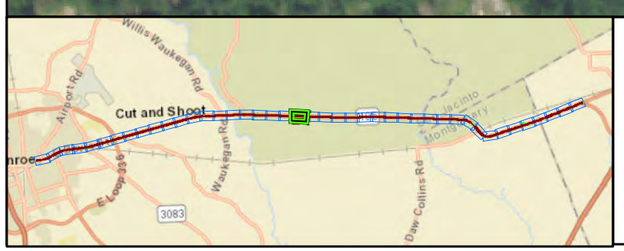
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





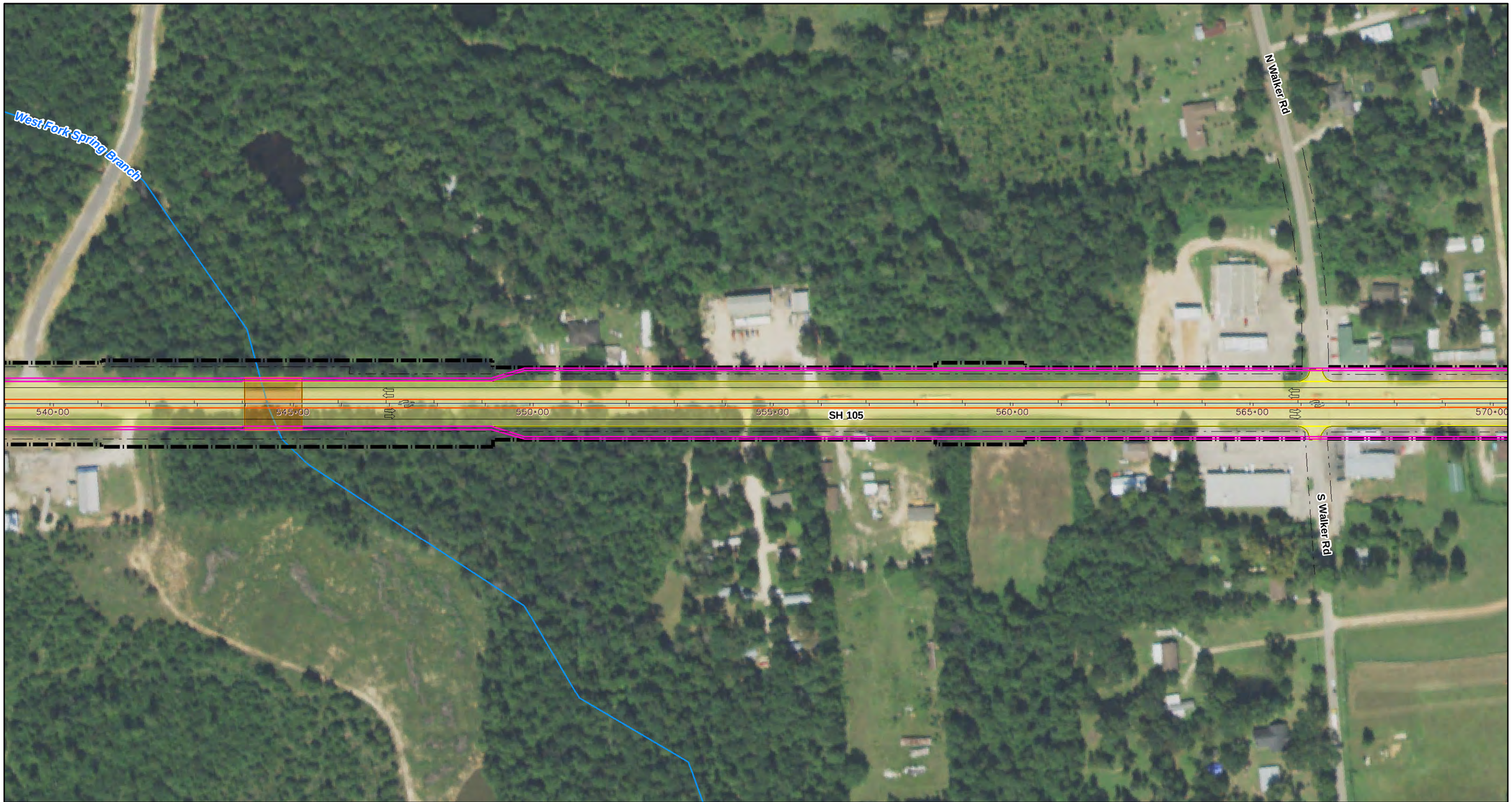
Legend

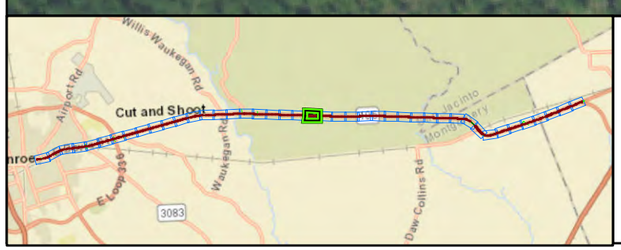
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





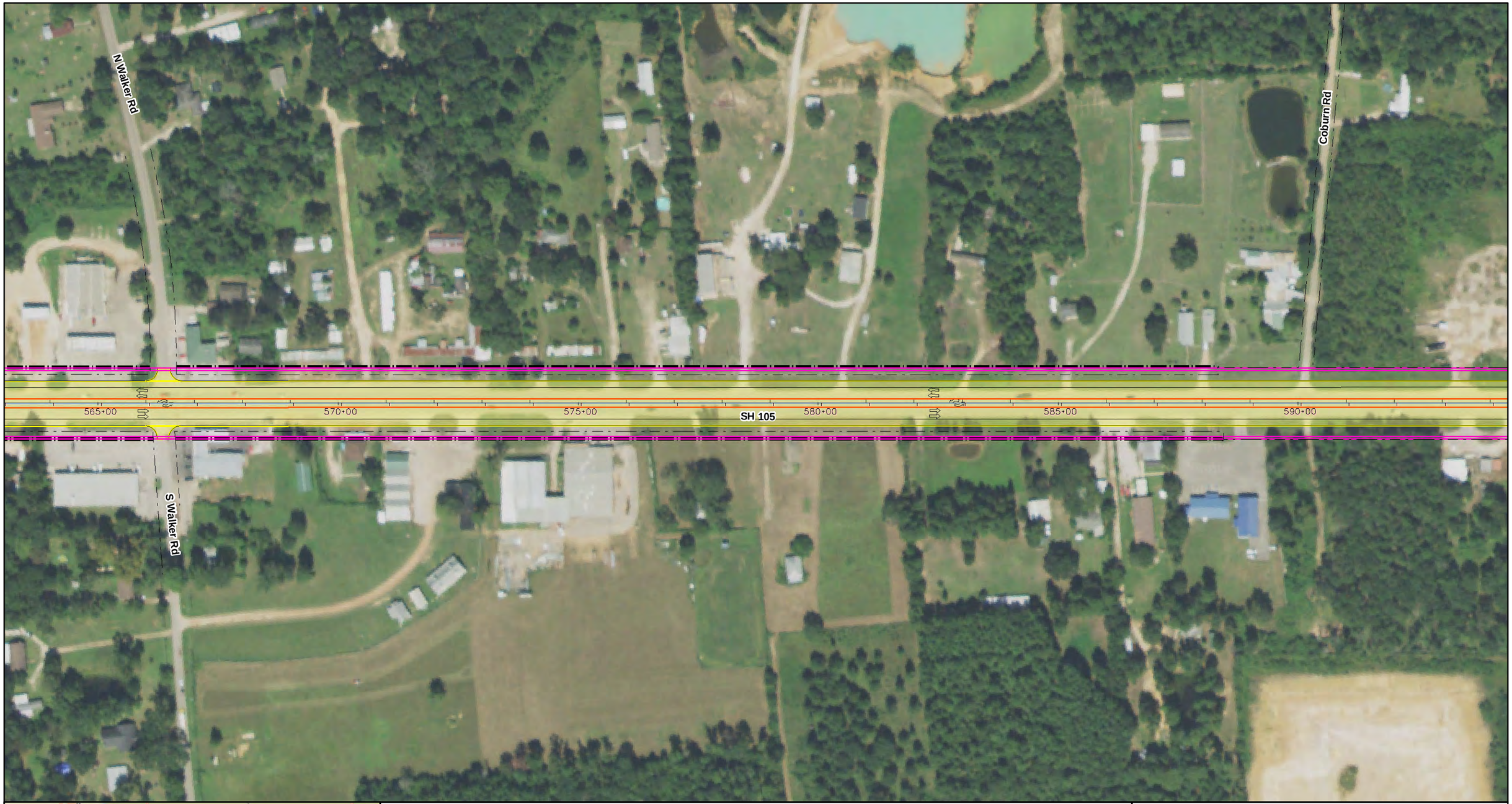
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



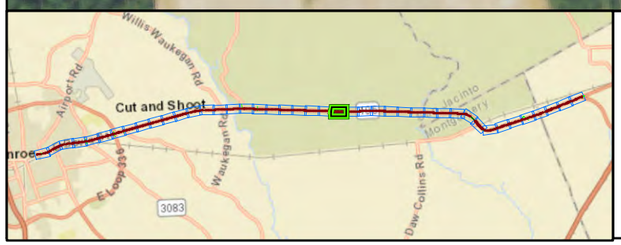
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



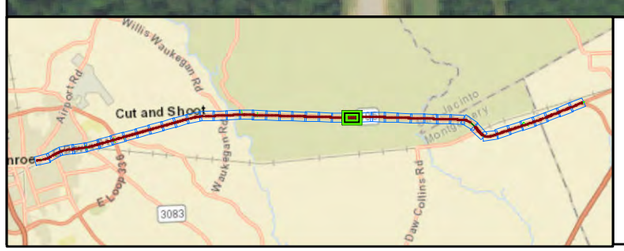
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
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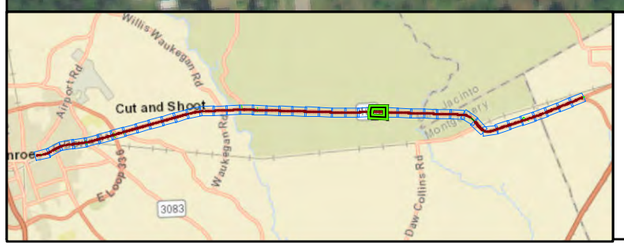
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

- Existing ROW
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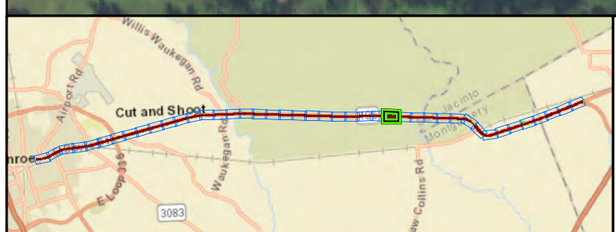
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



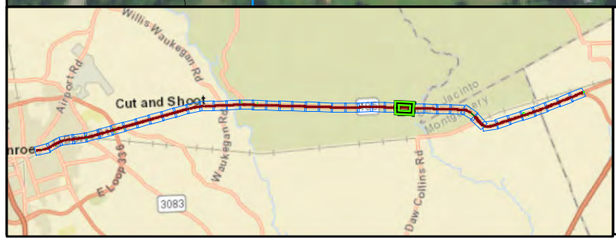
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

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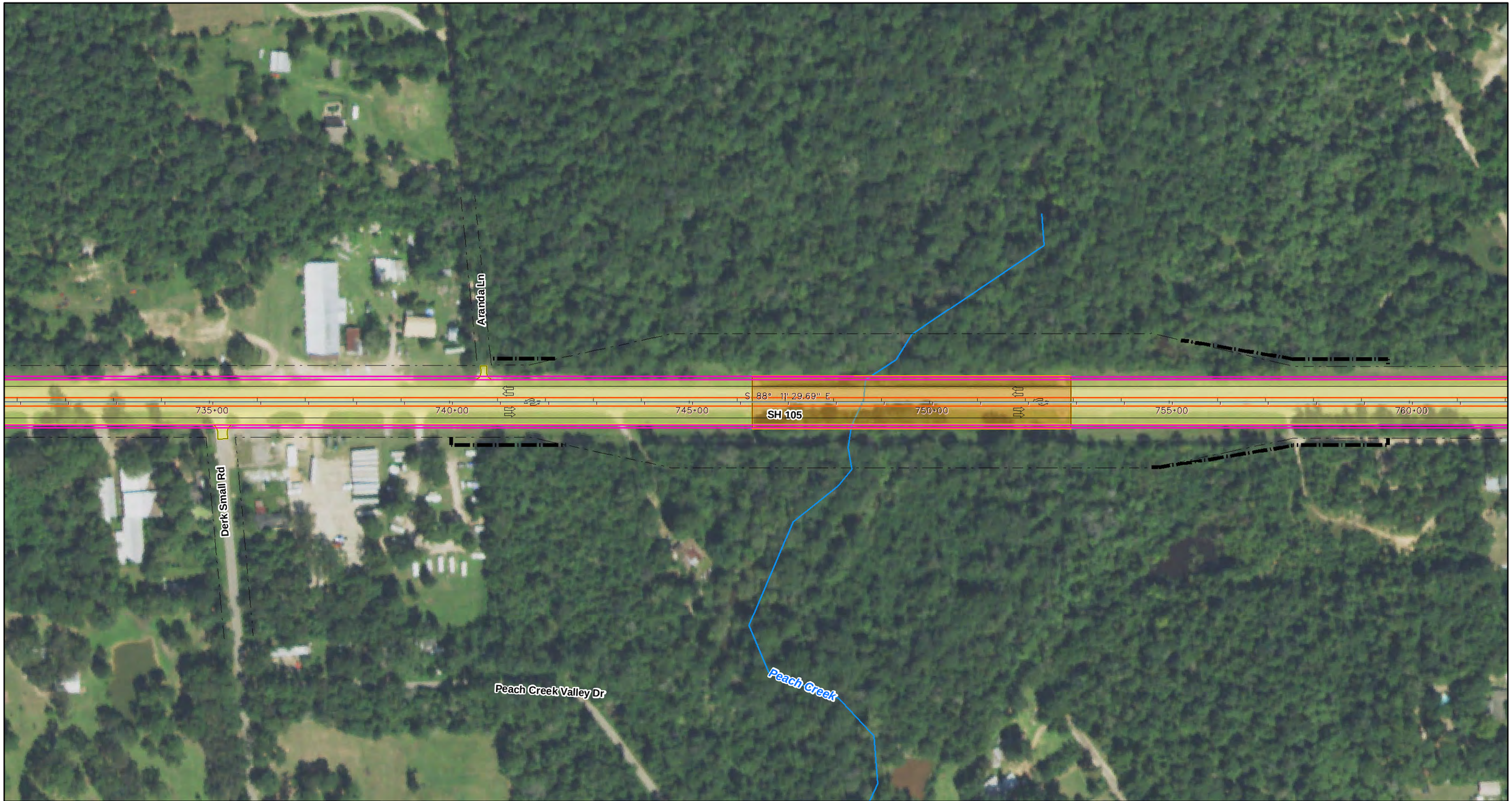
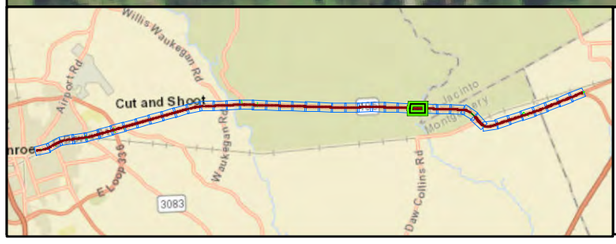
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
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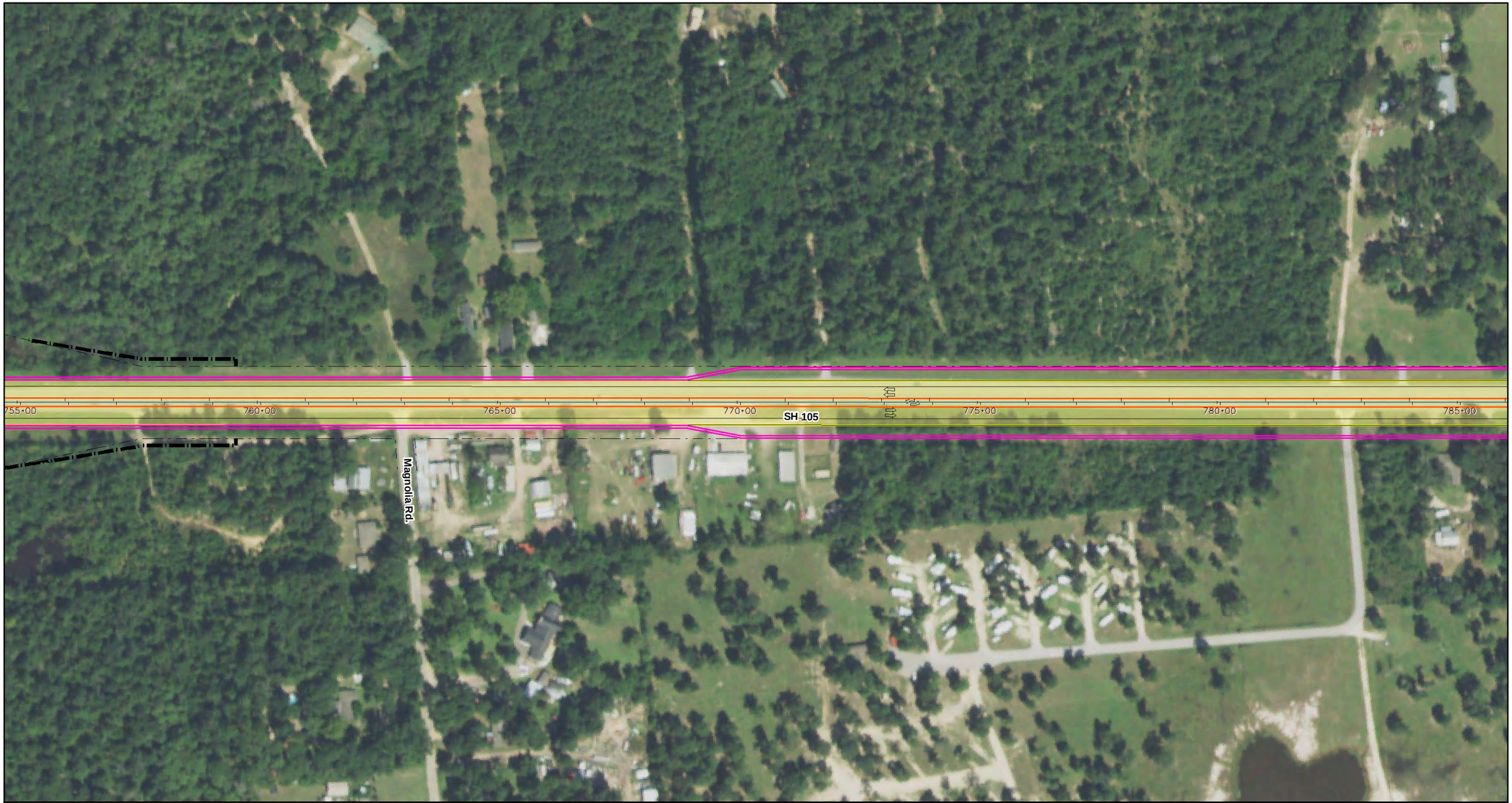
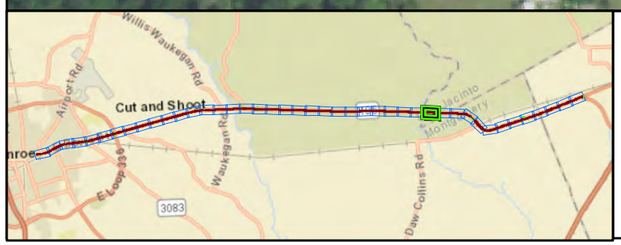
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





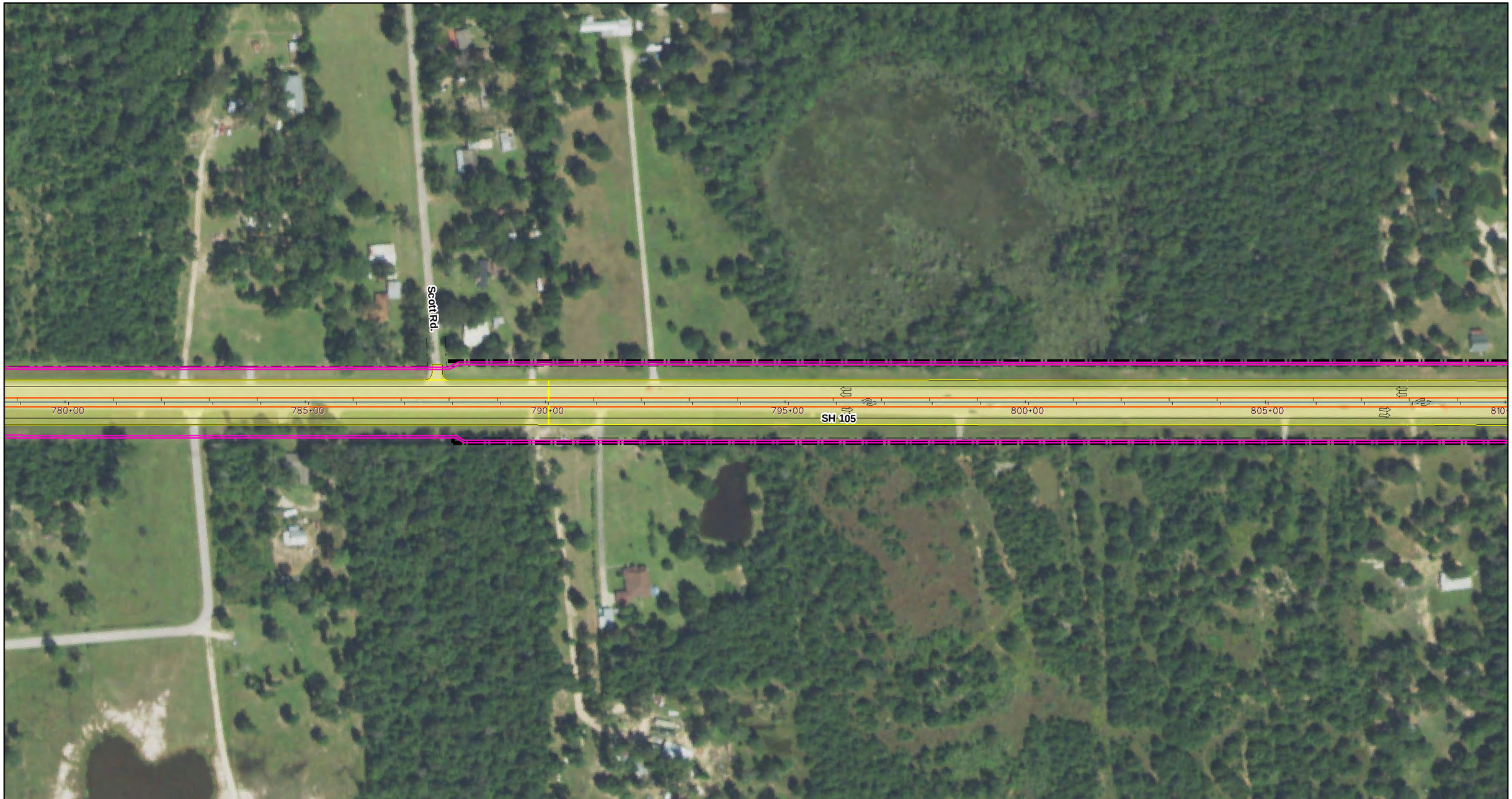
Legend

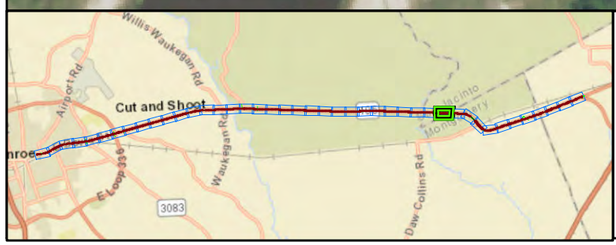
- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
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- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

805+00
810+00
815+00
SH 105
820+00
825+00
830+00
PC 827+33.97

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Shell Branch

SH 105

Goode Rd.

Old Highway 105

830+00

835+00

840+00

845+00

850+00

855+00

PC 827+33.97

PT 852+75.05

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
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- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Goode Rd.

Goode City Ln

Unnamed Drainage

855+00

860+00

865+00

870+00

875+00

880+00

PI 851+75.05

S 39° 22'12.06" E

PC 870+12.78

SH 105

Old Highway 105

BNSF Rail

Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Goode City Ln

875+00

880+00

885+00

890+00

895+00

900+00

905+00

PRC 890+98.20

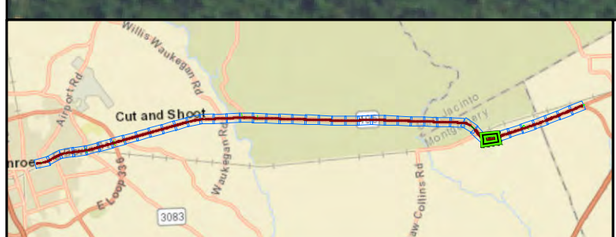
PT 892+53.53

SH 105

Jayhawker Creek

Unnamed Drainage

Unnamed Drainage



Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
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SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Legend

- Existing ROW
- Proposed ROW
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SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

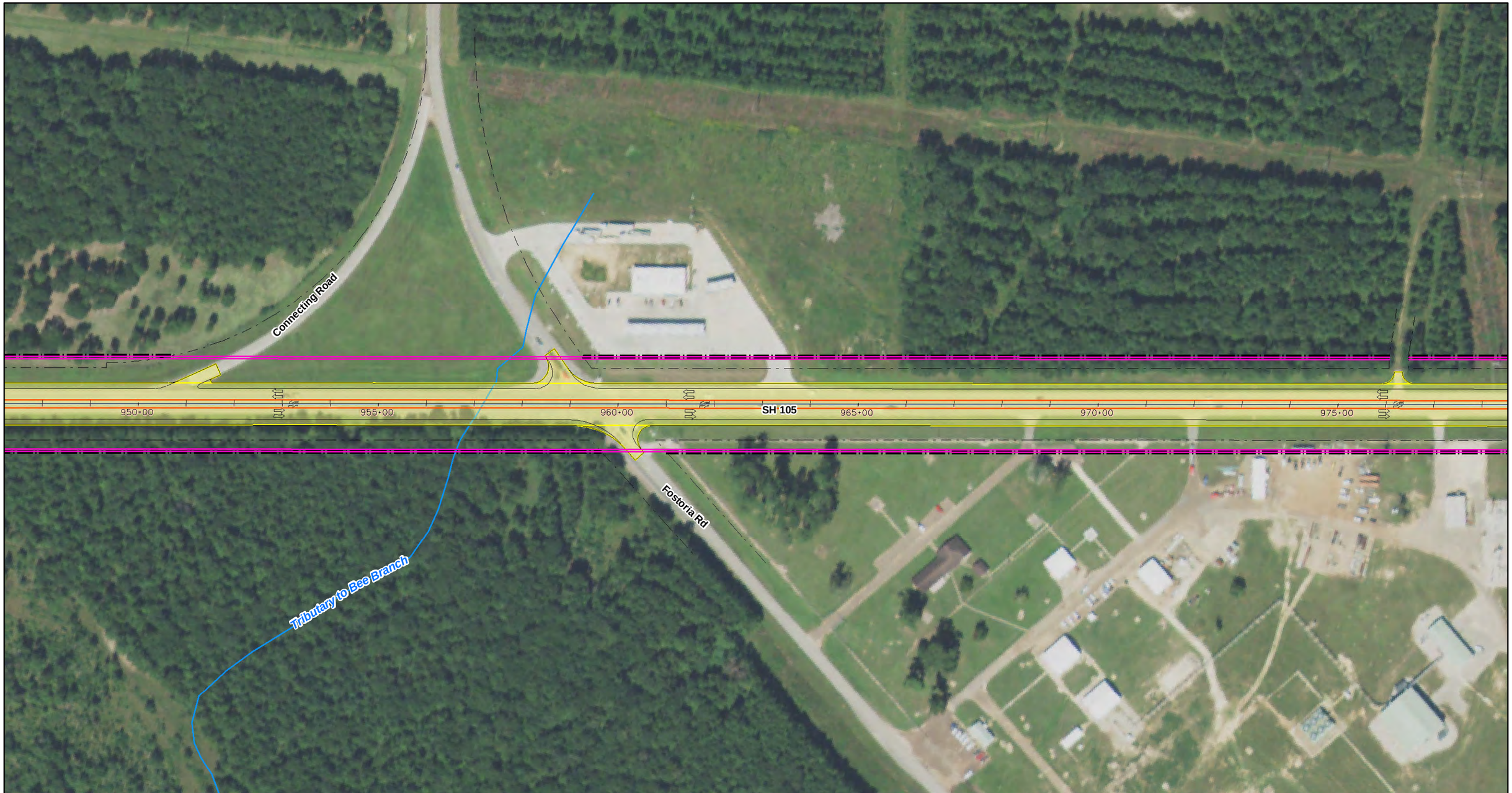
Legend

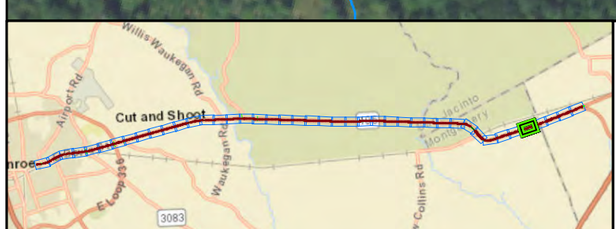
Existing ROW	Center Turn Lane	Bridge
Proposed ROW	Median	Mainlanes
Sidewalk	Traffic Barrier	County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet





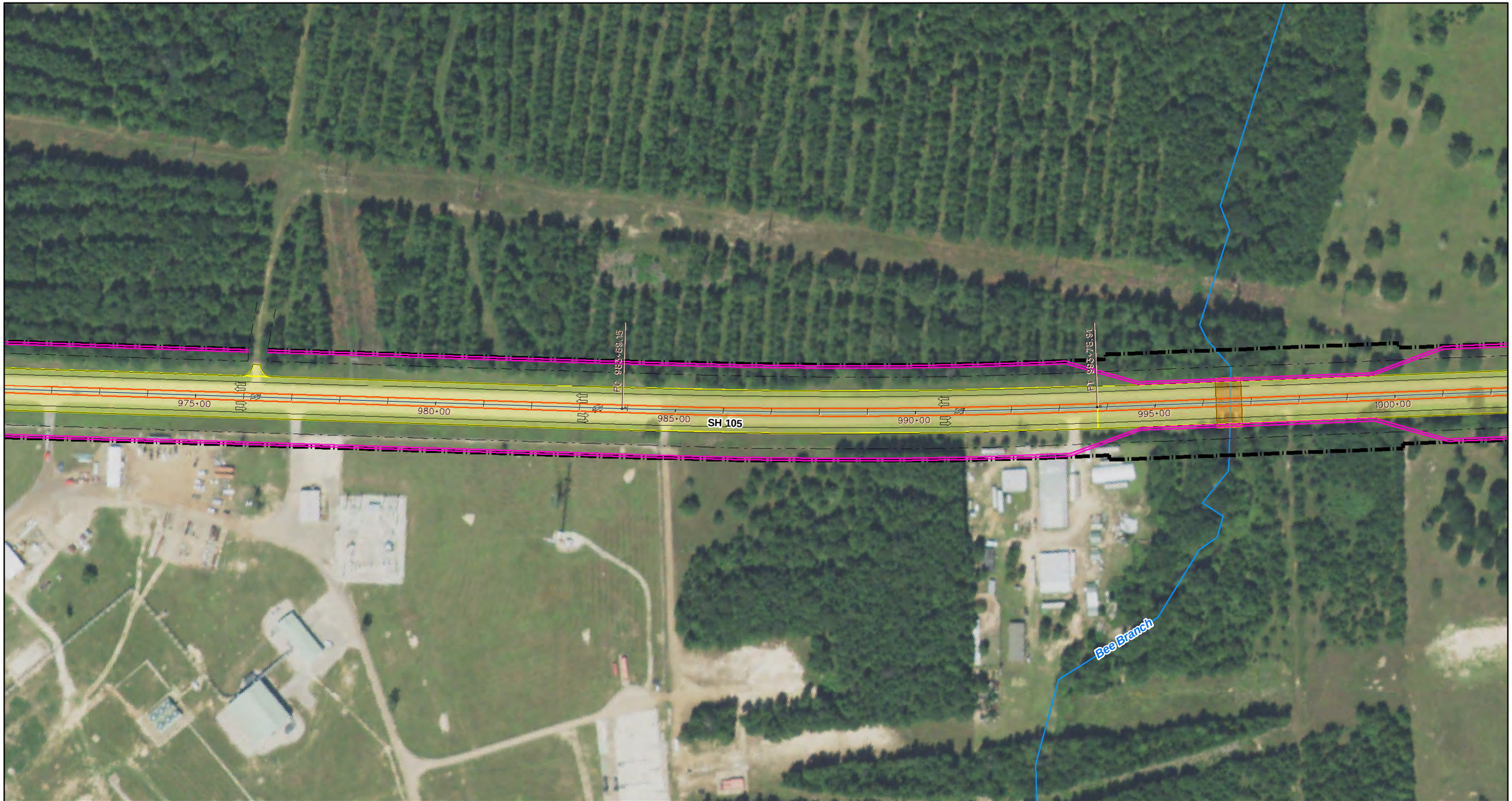
Legend

- Existing ROW
- Proposed ROW
- Sidewalk
- Center Turn Lane
- Median
- Traffic Barrier
- Bridge
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

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- Median
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SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Legend

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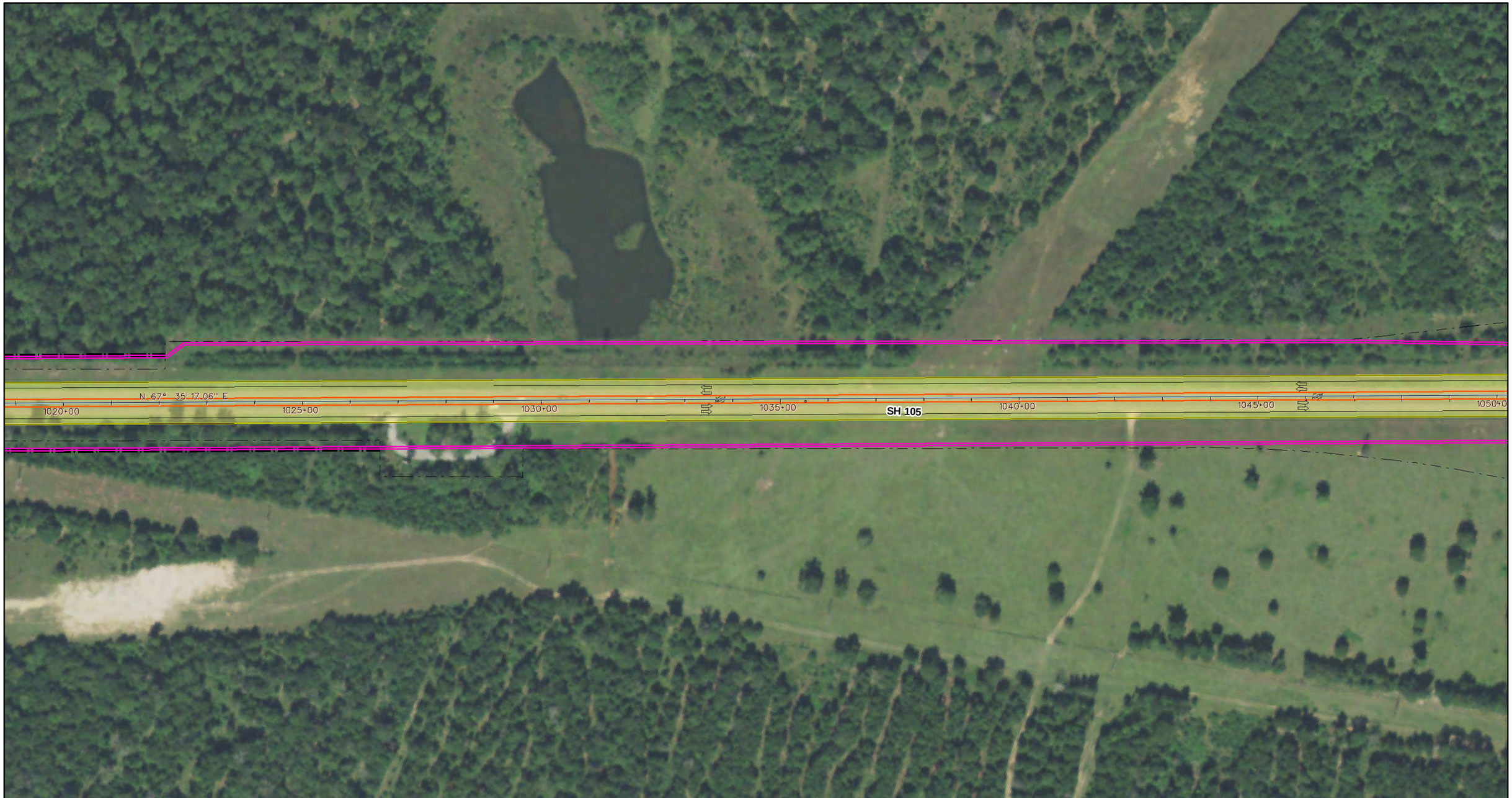
- Mainlanes
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

- Existing ROW
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- Median
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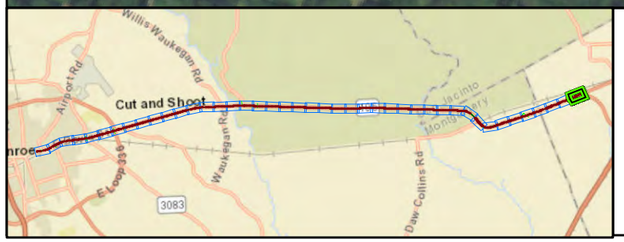
- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet



Legend

- Existing ROW
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- County Boundary

SH 105
Exhibit 1: Schematic Layout
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 75 150 300 Feet

Appendix D – Typical Sections

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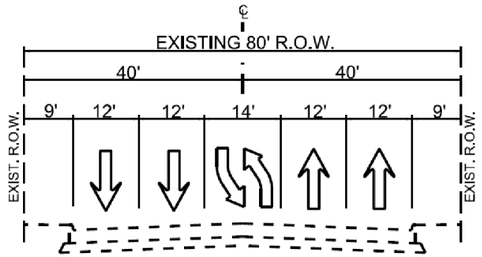
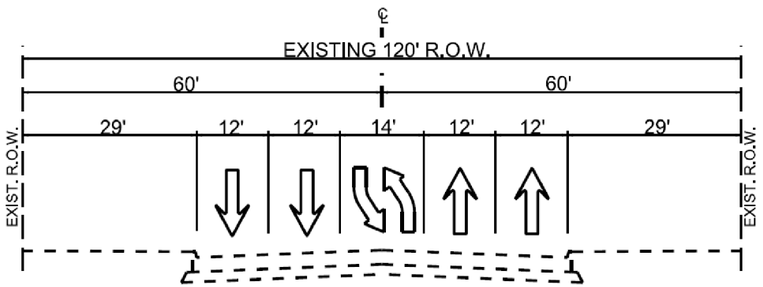
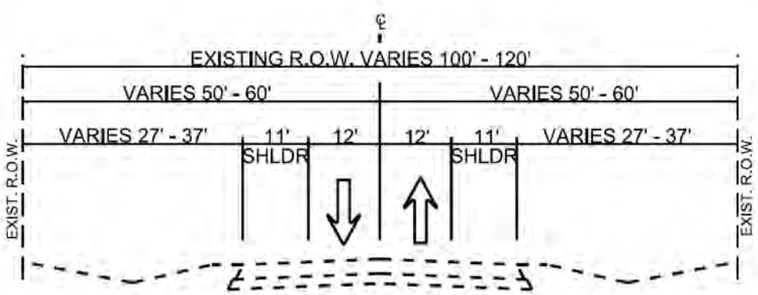


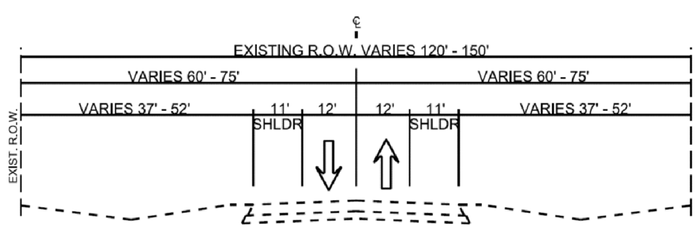
EXISTING TYPICAL SECTION
STA. 50+00 TO STA. 55+00



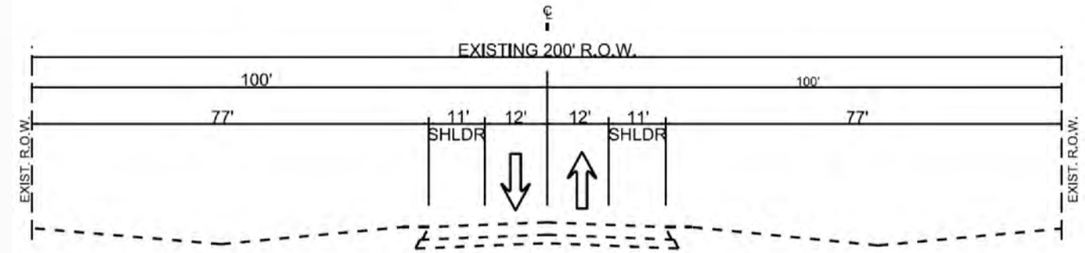
EXISTING TYPICAL SECTION
STA. 61+00 TO STA. 77+00



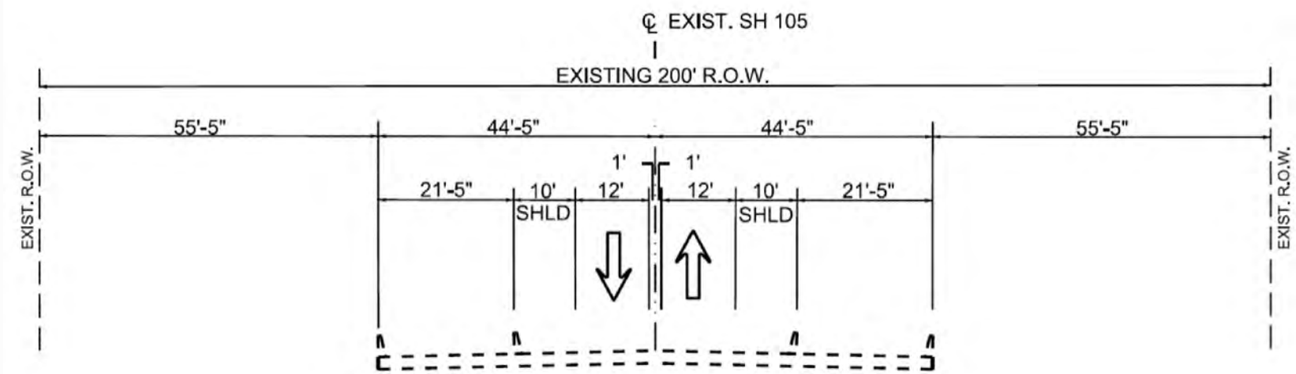
EXISTING TYPICAL SECTION
STA. 77+00 TO STA. 195+00



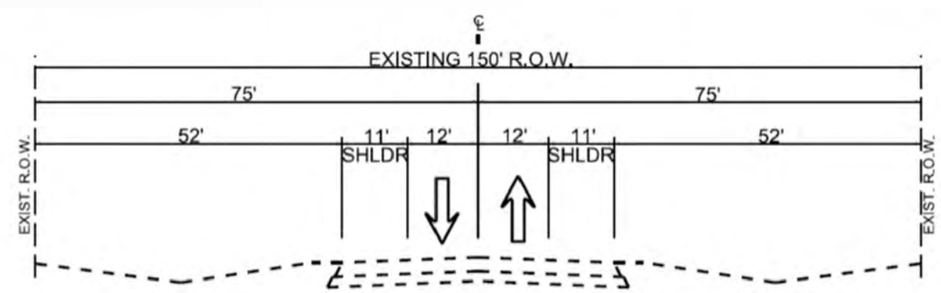
EXISTING TYPICAL SECTION
STA. 195+00 TO STA. 340+00
STA. 485+00 TO STA. 630+00



EXISTING TYPICAL SECTION
STA. 828+00 TO STA. 894+00



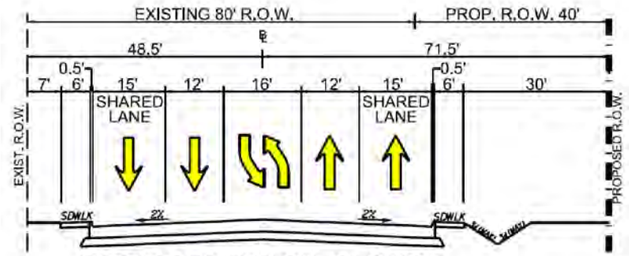
EXISTING BRIDGE TYPICAL SECTION
AT BNSF R.R.



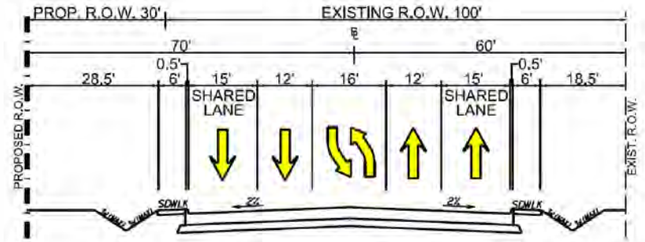
EXISTING TYPICAL SECTION
STA. 345+00 TO STA. 485+00
STA. 630+00 TO STA. 690+00
STA. 709+00 TO STA. 775+00
STA. 775+00 TO STA. 827+00
STA. 914+00 TO STA. 1050+00

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

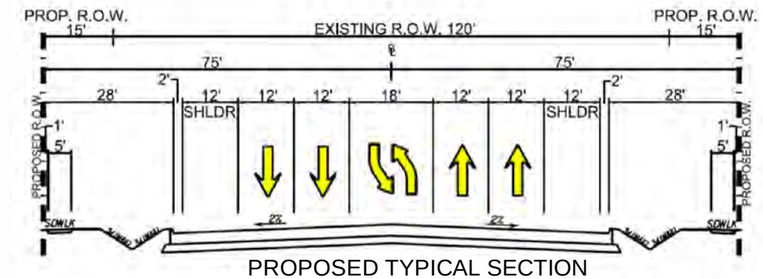
Exhibit 1:
Existing and Proposed Typicals



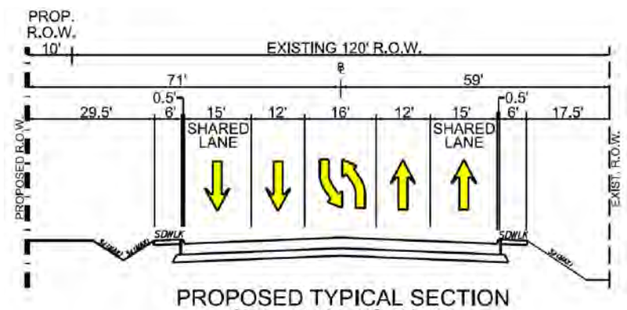
PROPOSED TYPICAL SECTION
STA. 50+00 TO STA. 55+00



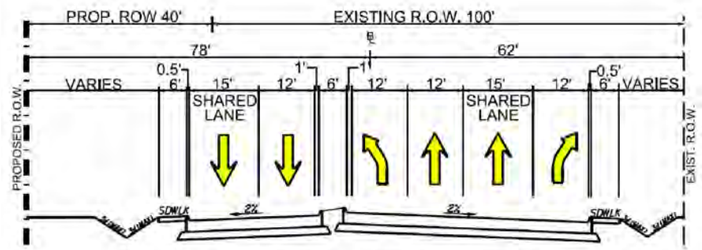
PROPOSED TYPICAL SECTION
STA. 106+00 TO 126+00



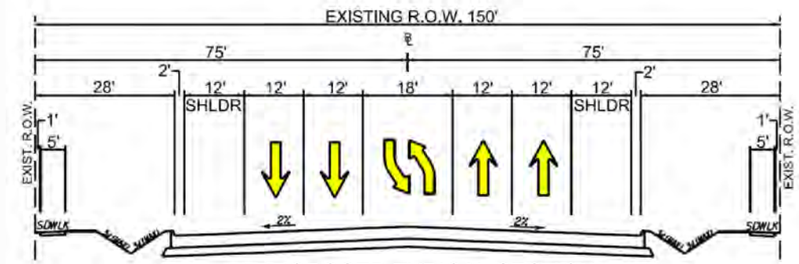
PROPOSED TYPICAL SECTION
STA. 211+00 TO STA. 223+00 STA. 276+00 TO STA. 313+00
STA. 235+00 TO STA. 265+00 STA. 550+00 TO STA. 588+00



PROPOSED TYPICAL SECTION
STA. 61+00 TO 74+00



PROPOSED TYPICAL SECTION
AT FM 3083



PROPOSED TYPICAL SECTION
STA. 226+00 TO STA. 231+00 STA. 590+00 TO STA. 630+00
STA. 266+00 TO STA. 276+00 STA. 630+00 TO STA. 685+00
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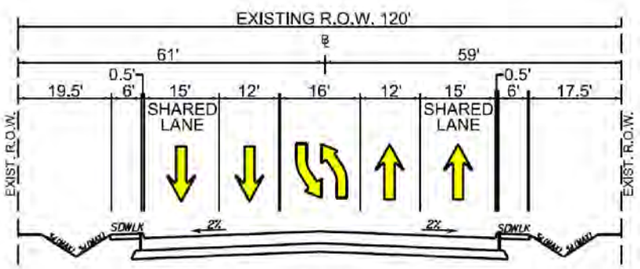
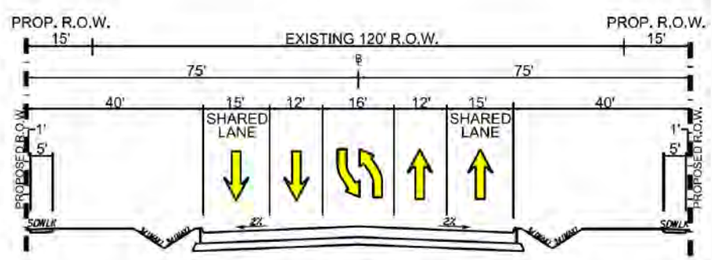
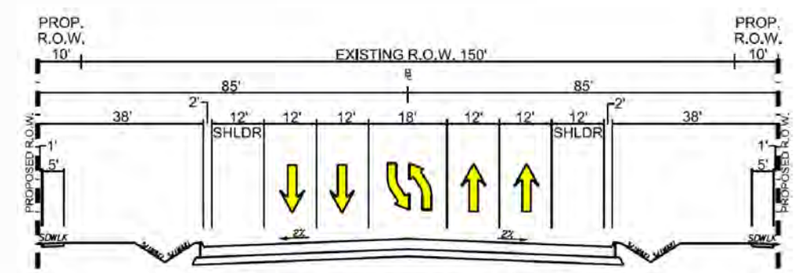
STA. 485+00 TO STA. 534+00 STA. 775+00 TO STA. 787+00



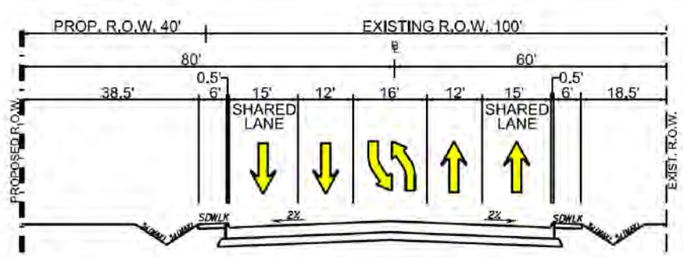
PROPOSED TYPICAL SECTION
STA. 75+00 TO 88+00



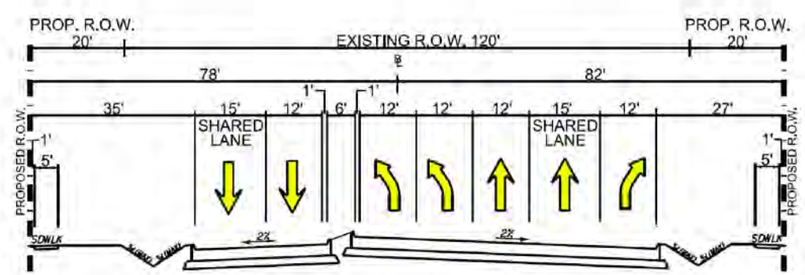
PROPOSED TYPICAL SECTION
STA. 147+00 TO 177+00



PROPOSED TYPICAL SECTION
STA. 326+00 TO STA. 339+00
STA. 788+00 TO STA. 810+00



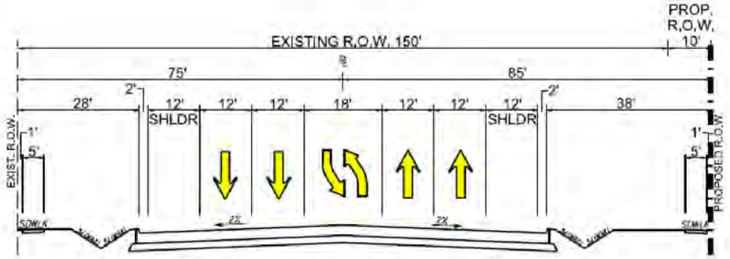
PROPOSED TYPICAL SECTION
STA. 95+00 TO 105+00



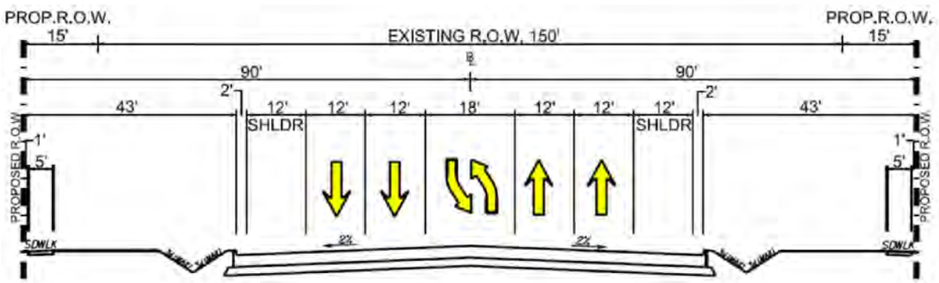
PROPOSED TYPICAL SECTION
AT LOOP 336

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

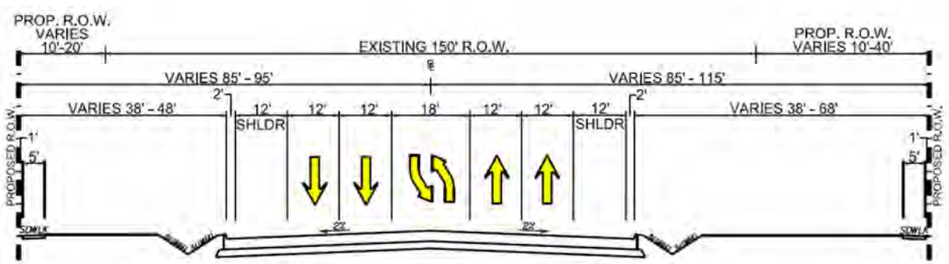
Exhibit 1:
Existing and Proposed Typicals



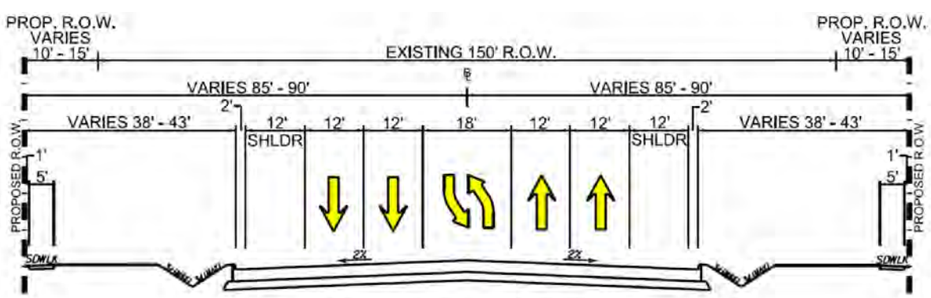
PROPOSED TYPICAL SECTION
STA. 344+00 TO STA. 381+00



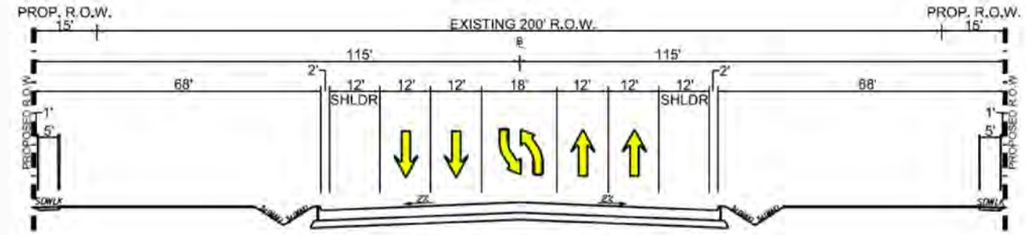
PROPOSED TYPICAL SECTION
STA. 391+00 TO STA. 404+00



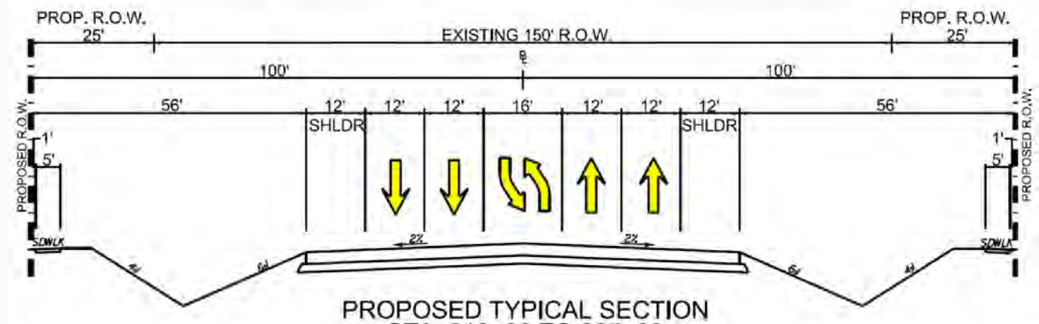
PROPOSED TYPICAL SECTION
STA. 416+00 TO 434+00



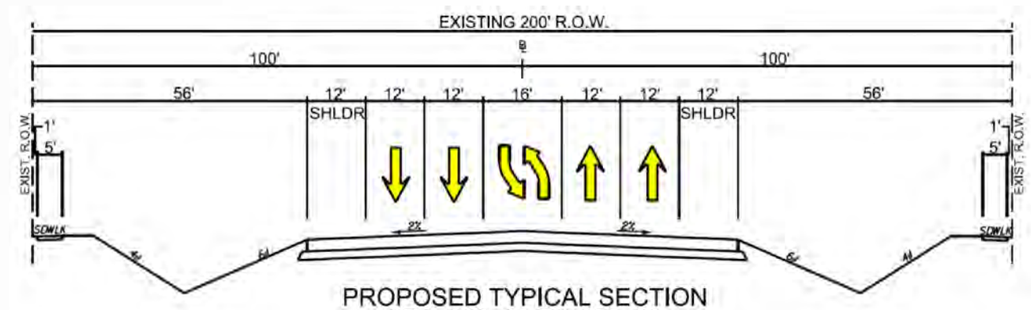
PROPOSED TYPICAL SECTION
STA. 535+00 TO 546+00



PROPOSED TYPICAL SECTION
STA. 698+50 TO 708+00



PROPOSED TYPICAL SECTION
STA. 818+00 TO 827+00



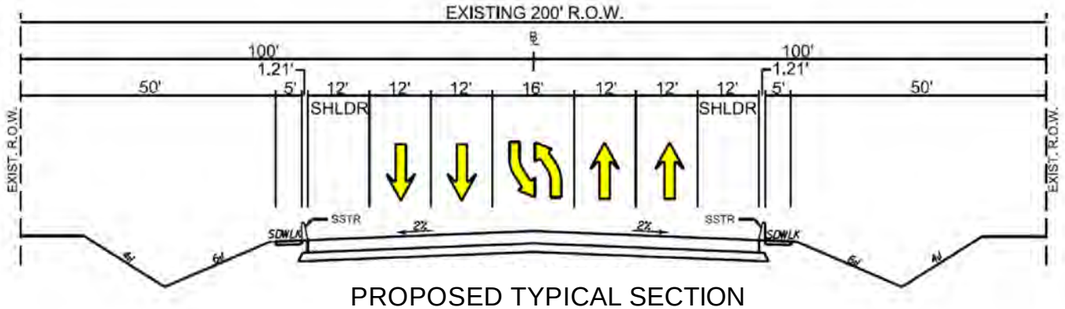
PROPOSED TYPICAL SECTION
STA. 828+00 TO 852+00

SH 105

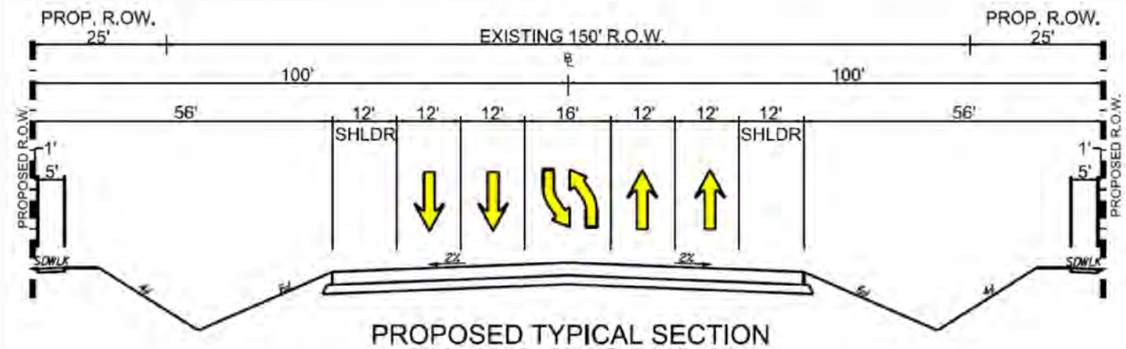
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

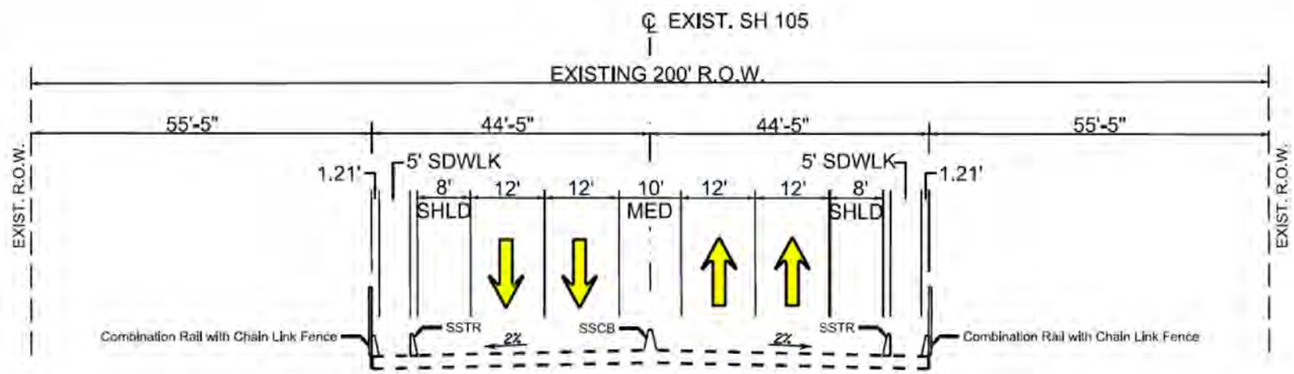
Exhibit 1:
Existing and Proposed Typicals



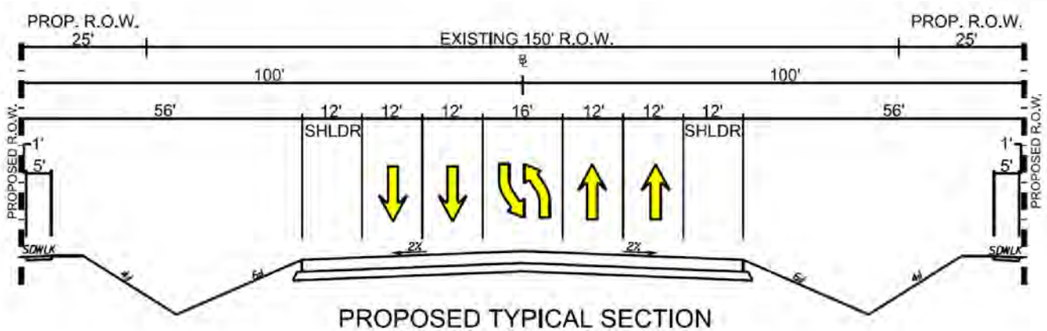
PROPOSED TYPICAL SECTION
STA. 855+00 TO STA. 861+00 STA. 905+00 TO STA. 909+00
STA. 886+00 TO STA. 894+00



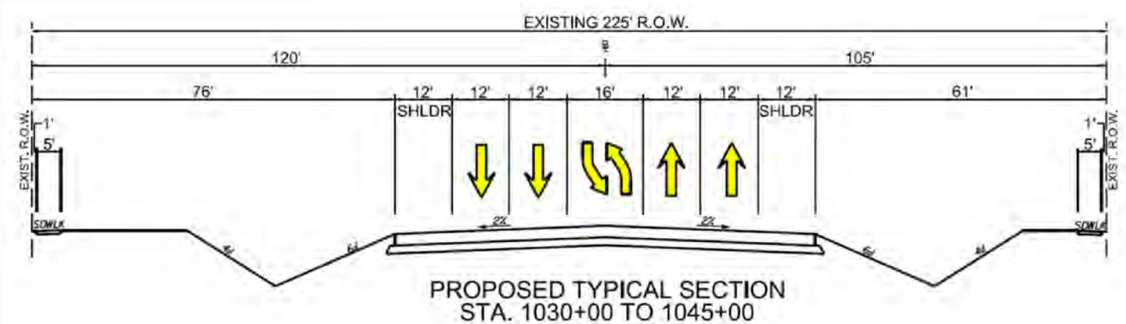
PROPOSED TYPICAL SECTION
STA. 1000+00 TO 1022+00



PROPOSED BRIDGE TYPICAL SECTION
AT BNSF R.R.



PROPOSED TYPICAL SECTION
STA. 915+00 TO 992+00



PROPOSED TYPICAL SECTION
STA. 1030+00 TO 1045+00

SH 105

From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 1:
Existing and Proposed Typicals

Appendix E – Plan and Program Excerpts

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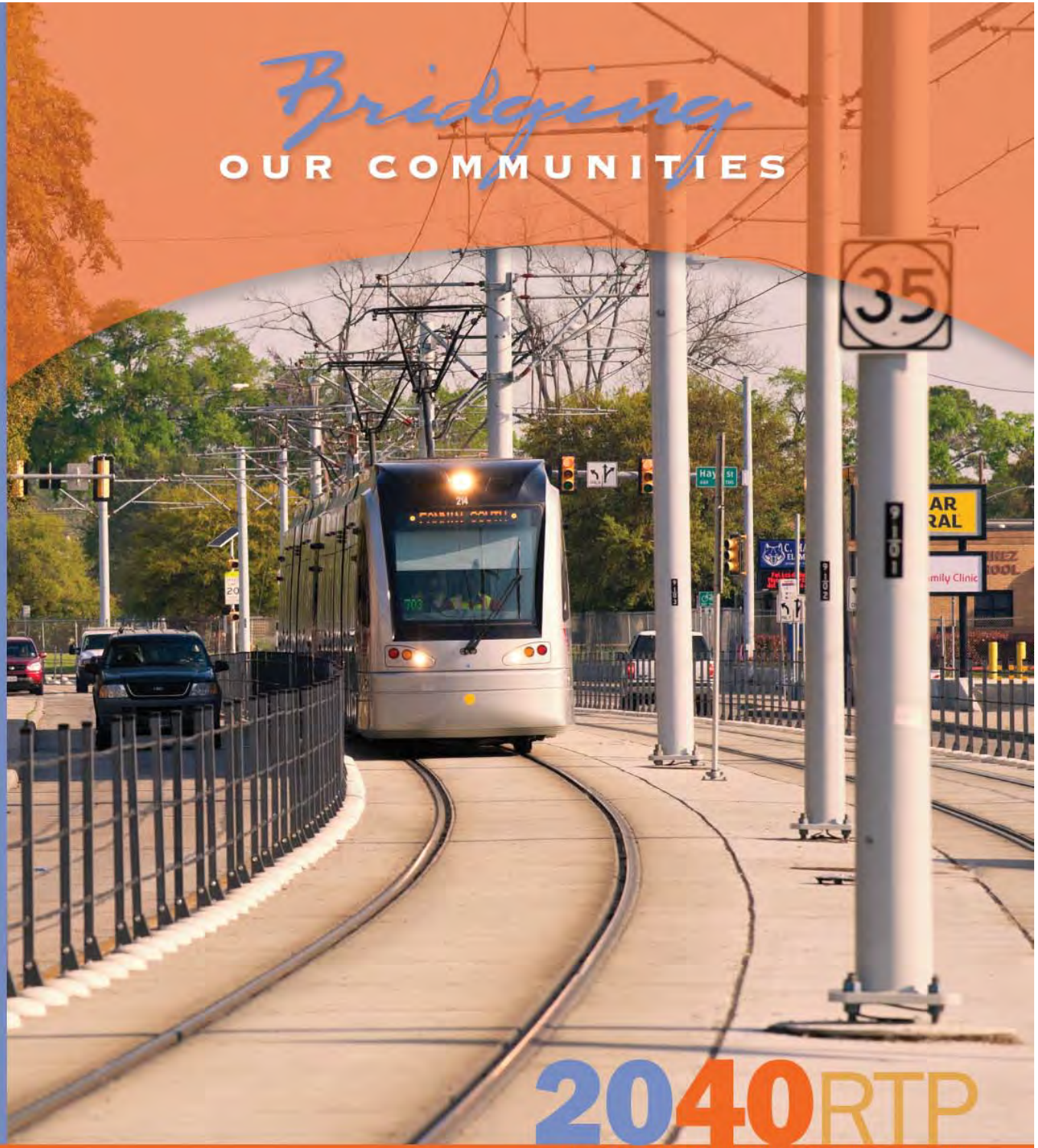

Bridging OUR COMMUNITIES

2040 RTP

THE HOUSTON-GALVESTON REGIONAL TRANSPORTATION PLAN

Revised March 30, 2016

2040 RTP

FISCALLY CONSTRAINED PROJECTS

Part I: Corridor-Based Major Investments

Part II: Regional Investment Programs, Regionally Significant Projects Subject to Conformity

Part III: Regional Investment Programs, Exempt and Not Regionally Significant Projects in First Ten Years (FY 2015-2024)

EXEMPT: Project exempt from transportation conformity under 40 CFR §93.126
EREA: Project exempt from regional emissions analysis under 40 CFR §93.127
NRS: Project "Not Regionally Significant" under current conformity definition

REGIONAL INVESTMENT PROGRAMS, REGIONALLY SIGNIFICANT PROJECTS SUBJECT TO CONFORMITY

MPOID	CSJ	County	Facility	From	To	Description	Length (mi)	Main Lanes	Frontage Lanes	Fiscal Year	Analysis Year	Total Project Cost (M, YOE)
OTHER MAJOR ROADWAY IMPROVEMENTS												
83	8170-12-001	Harris	HEMPSTEAD RD & WASHINGTON AVE	W OF 12TH ST	E OF WASHINGTON AVE/KATY RD SPLIT	CONSTRUCT 6-LANE DIVIDED URBAN ST FACILITY W/ AUTOMATIC PUMP STATION AND RR LINE W/ UNDERPASS (PHASE 2)	1.0	(4,6)	n/a	2017	2025	$ 65.70
8052		Harris	KUYKENDAHL RD	FM 1960	RANKIN RD	WIDEN 4 TO 6 LANE CONCRETE BLVD	2.5	(4,6)	n/a	2023	2025	$ 10.44
111		Harris	LITTLE YORK RD W	US 290	HOUSTON CITY LIMITS	WIDEN TO 6-LANE DIVIDED	3.0	(4,6)	n/a	2023	2025	$ 7.34
187	0338-11-028	Montgomery	LP 336	E OF IH 45	FM 3083	WIDEN FROM 4 TO 6 LANES	3.2	(4,6)	n/a	2025	2035	$ 28.62
13760		Fort Bend	POST OAK RD S	BW 8	FM 2234	DESIGN AND CONSTRUCTION OF TWO ADDITIONAL LANES WITHIN EXISTING RIGHT-OF-WAY	1.4	(4,6)	n/a	2015	2017	$ 3.08
17066	0912-72-340	Harris	RED BLUFF RD	KIRBY BLVD	SH 146	WIDEN TO 4-LANE DIVIDED ROADWAY INCLUDING BRIDGE AGROSS TAYLOR LAKE AND PEDESTRIAN AND BICYCLE ACCOMODATIONS	1.5	(2,4)	n/a	2019	2025	$ 24.90
4000		Harris	SENS RD	N H ST	SPENCER HWY	WIDEN FROM 2-LANE ASPHALT TO 4-LANE CONCRETE	0.7	(2,4)	n/a	2015	2017	$ 8.30
965	0338-02-032	Montgomery	SH 105	GRIMES C/L	FM 149	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	6.8	(2,4)	n/a	2023	2025	$ 115.38
504	0338-04-060	Montgomery	SH 105	10TH ST	SL 336	WIDEN TO 4-LANE DIVIDED ROADWAY WITH RAISED MEDIANS AND INTERSECTION IMPROVEMENTS	2.6	(2,4)	n/a	2021	2025	$ 28.05
10125	0338-04-065	Montgomery	SH 105	LP 336	FM 1484	WIDEN TO 4-LANE DIVIDED ROADWAY (RAISED MEDIAN AND RURAL IN SECTIONS) WITH INTERSECTION IMPROVEMENTS	4.5	(2,4)	n/a	2021	2025	$ 109.30
10124	0338-04-066	Montgomery	SH 105	FM 1484	SAN JACINTO C/L	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	6.1	(2,4)	n/a	2021	2025	$ 112.70
16338	0338-05-028	Liberty	SH 105	MONTGOMERY C/L	CLEVELAND BYPASS	WIDEN FROM 2 TO 4 LANES	1.6	(2,4)	n/a	2024	2035	$ 15.55
7705	0338-06-011	San Jacinto	SH 105	MONTGOMERY C/L	MONTGOMERY C/L	INFORMATION ONLY (PROJECT IN SAN JACINTO CO): WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	1.0	(2,4)	n/a	2022	2025	$ 12.86
7706	0338-07-019	Montgomery	SH 105	SAN JACINTO C/L	LIBERTY C/L	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	3.5	(2,4)	n/a	2023	2025	$ 34.07
12007		Liberty	SH 105 BYPASS	SH 105 W OF CLEVELAND	SH 321 E OF CLEVELAND	WIDEN FROM 2 TO 4 LANES	5.5	(2,4)	n/a	2034	2040	$ 12.29
15383	0192-01-093	Fort Bend	SH 6	N OF BROOKS ST	LEXINGTON BLVD	WIDEN FROM 6 TO 8-LANES	1.4	(6,8)	n/a	2018	2025	$ 7.08

Projects shaded in GRAY are exempt from conformity or are not considered regionally significant under H-GAC regional emissions analysis.

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2019-2022 TIP
Transportation Improvement Program

METROPOLITAN PLANNING ORGANIZATION

THE HOUSTON-GALVESTON METROPOLITAN PLANNING AREA

www.h-gac.com/taq/tip

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Appendix D
Projects Undergoing Environmental Assessment

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Appendix D — Projects Undergoing Environmental Assessment

The intent of this appendix is to identify projects that may undergo environmental analysis (EA) and feasibility project development during the 2019-2022 TIP timeframe. The Federal Highway Administration requires these projects to be referenced in the current TIP in order to facilitate the feasibility and environmental assessment phases.

This appendix contains projects that are shown in the fiscally constrained 2040 Regional Transportation Pland (RTP) for which the next logical phase of work is not programmed in the 2019-2022 TIP. **This appendix in no way implies that these projects are programmed in the 2019-2022 TIP nor are the cost estimates necessarily fully finalized.**

Total Project Cost

The current estimate of total project cost is provided for each project and is provided to communicate the overall investment being made to the transportation system, This estimate may reflect work that has already occurred and reflects all facets of the project, including design and engineering costs, needed acquisition of rights-of-way or utility relocations, and construction contingencies.

Year-of-Expenditure (YOE)

Funding and costs for all projects is shown in YOE (nominal) dollars, as opposed to current, real, or indexed dollars (such as “2010”).

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APPENDIX D -- 2040 RTP, PROJECTS UNDERGOING ENVIRONMENTAL ASSESSMENT

MPOID	CSJ	County	Sponsor	Facility	From	To	Description	Length	Fiscal Year	Total Project Cost (M, YOE)
OTHER MAJOR ROADWAY IMPROVEMENTS										
17111	0912-72-383	Harris	CITY OF HOUSTON	GESSNER DR S	WESTHEIMER RD	RICHMOND AVE	WIDEN TO 6-LANES AND REPLACE TRAFFIC SIGNALS IN CONJUNCTION WITH DRAINAGE AND PUBLIC UTILITY IMPROVEMENTS	0.7	2024	$ 14.76
17112	0912-72-384	Harris	CITY OF HOUSTON	GESSNER DR S	AT WESTHEIMER RD		CONSTRUCT GRADE SEPARATION OVER WESTHEIMER RD	n/a	2025	$ 46.20
8052		Harris	HARRIS COUNTY	KUYKENDAHL RD	FM 1960	RANKIN RD	WIDEN 4 TO 6 LANE CONCRETE BLVD	2.5	2023	$ 10.44
111		Harris	HARRIS COUNTY	LITTLE YORK RD W	US 290	HOUSTON CITY LIMITS	WIDEN TO 6-LANE DIVIDED	3.0	2023	$ 7.34
8002		Harris	HARRIS COUNTY	STUEBNER AIRLINE RD	SPRING CYPRESS RD	LOUETTA RD	WIDEN TO 6 LANE CONCRETE BLVD W/ SS	1.9	2023	$ 5.13
8038		Harris	HARRIS COUNTY	STUEBNER AIRLINE RD	CYPRESSWOOD DR	LOUETTA RD	WIDEN TO 6 LANE CONCRETE PAVEMENT W/ STORM SEWERS	0.9	2023	$ 4.47
8073		Harris	HARRIS COUNTY	STUEBNER AIRLINE RD	CYPRESSWOOD DR	FM 1960	WIDEN TO 6-LANE CONCRETE PAVEMENT W/ STORM SEWERS	1.5	2023	$ 11.93
8077		Harris	HARRIS COUNTY	VETERANS MEMORIAL DR	BW 8	SH 249	WIDEN TO 6 LANE ASPHALT WITH CENTER LEFT TURN LANE, STORM SEWER SYSTEM	3.0	2023	$ 13.42
8078		Harris	HARRIS COUNTY	VETERANS MEMORIAL DR	FM 1960	W GREENS RD	WIDEN TO 6 LANE ASPHALT WITH CENTER LEFT TURN LANE, STORM SEWER SYSTEM	3.2	2023	$ 9.69
17094	0912-72-385	Harris	CITY OF HOUSTON	WESTPARK DR	DAIRY ASHFORD RD	WILCREST ST	WIDEN TO 4-LANES AND REPLACE TRAFFIC SIGNALS IN CONJUNCTION WITH DRAINAGE AND PUBLIC UTILITY IMPROVEMENTS	2.1	2021	$ 15.22
16338	0338-05-028	Liberty	TXDOT BEAUMONT DISTRICT	SH 105	MONTGOMERY C/L	CLEVELAND BYPASS	WIDEN FROM 2 TO 4 LANES	1.6	2024	$ 15.55
12007		Liberty	TXDOT BEAUMONT DISTRICT	SH 105 BYPASS	SH 105 W OF CLEVELAND	SH 321 E OF CLEVELAND	WIDEN FROM 2 TO 4 LANES	5.5	2034	$ 12.29
16347	0028-04-069	Liberty	TXDOT BEAUMONT DISTRICT	US 90	FM 160	SH 61	RECONSTRUCT AND WIDEN TO 4-LANE DIVIDED ROADWAY WITH CONTINUOUS LEFT TURN LANE	8.8	2024	$ 63.35
172	0028-04-077	Liberty	TXDOT BEAUMONT DISTRICT	US 90	FM 563	FM 160	RECONSTRUCT AND WIDEN TO 4-LANE DIVIDED ROADWAY WITH CONTINUOUS LEFT TURN LANE	2.4	2024	$ 10.30
16315	0523-04-017	Montgomery	TXDOT HOUSTON DISTRICT	FM 1488	W OF JOSEPH RD	MONTGOMERY C/L	WIDEN FROM 2 TO 4-LANES WITH CONTINUOUS CENTER LFET TURN LANE AND BICYCLE ACCOMODATIONS	0.2	2023	$ 2.71

Projects shaded in GRAY are exempt from conformity or are not considered regionally significant under H-GAC regional emissions analysis.

APPENDIX D -- 2040 RTP, PROJECTS UNDERGOING ENVIRONMENTAL ASSESSMENT

MPOID	CSJ	County	Sponsor	Facility	From	To	Description	Length	Fiscal Year	Total Project Cost (M, YOE)
OTHER MAJOR ROADWAY IMPROVEMENTS										
501	0523-08-007	Montgomery	TXDOT HOUSTON DISTRICT	FM 1488	WALLER C/L	FM 1774	WIDEN FROM 2 TO 4-LANES WITH CONTINUOUS CENTER LEFT TURN LANE AND BICYCLE ACCOMMODATIONS	3.8	2023	$ 48.07
16313	0523-08-013	Montgomery	TXDOT HOUSTON DISTRICT	FM 1488	EXISTING FM 1488, W OF MAGNOLIA	FM 1774	CONSTRUCT 4 LANE ROADWAY ON NEW LOCATION (MAGNOLIA BYPASS)	1.8	2024	$ 19.09
499	0523-09-009	Montgomery	TXDOT HOUSTON DISTRICT	FM 1488	FM 1774	W OF FM 149	WIDEN FROM 2 TO 4-LANES WITH CONTINUOUS CENTER LEFT TURN LANE AND BICYCLE ACCOMMODATIONS	4.0	2023	$ 54.68
16314	0523-09-018	Montgomery	TXDOT HOUSTON DISTRICT	FM 1488	FM 1774	PROPOSED SH 249	CONSTRUCT 4-LANE ROADWAY ON NEW LOCATION (MAGNOLIA BYPASS)	8.0	2024	$ 22.12
187	0338-11-028	Montgomery	TXDOT HOUSTON DISTRICT	LP 336	E OF IH 45	FM 3083	WIDEN FROM 4 TO 6 LANES	3.2	2025	$ 28.62
965	0338-02-032	Montgomery	TXDOT HOUSTON DISTRICT	SH 105	GRIMES C/L	FM 149	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	6.8	2023	$ 115.38
504	0338-04-060	Montgomery	TXDOT HOUSTON DISTRICT	SH 105	10TH ST	SL 336	WIDEN TO 4-LANE DIVIDED ROADWAY WITH RAISED MEDIANS AND INTERSECTION IMPROVEMENTS	2.6	2021	$ 28.05
10125	0338-04-065	Montgomery	TXDOT HOUSTON DISTRICT	SH 105	LP 336	FM 1484	WIDEN TO 4-LANE DIVIDED ROADWAY (RAISED MEDIAN AND RURAL IN SECTIONS) WITH INTERSECTION IMPROVEMENTS	4.5	2021	$ 109.30
10124	0338-04-066	Montgomery	TXDOT HOUSTON DISTRICT	SH 105	FM 1484	SAN JACINTO C/L	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	6.1	2021	$ 112.70
7706	0338-07-019	Montgomery	TXDOT HOUSTON DISTRICT	SH 105	SAN JACINTO C/L	LIBERTY C/L	WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	3.5	2023	$ 34.07
16343	0338-11-056	Montgomery	TXDOT HOUSTON DISTRICT	SL 336	FM 1314	IH 45	WIDEN FROM 2 TO 4 LANES	2.1	2022	$ 16.33
7060		Montgomery	MONTGOMERY COUNTY	WOODLANDS PKWY	SH 249	FM 2978	CONSTRUCT NEW 2-LANE DIVIDED	5.7	2023	$ 6.00
7705	0338-06-011	San Jacinto	TXDOT HOUSTON DISTRICT	SH 105	MONTGOMERY C/L	MONTGOMERY C/L	INFORMATION ONLY (PROJECT IN SAN JACINTO CO): WIDEN TO 4-LANE DIVIDED RURAL ROADWAY WITH INTERSECTION IMPROVEMENTS	1.0	2022	$ 12.86

Projects shaded in GRAY are exempt from conformity or are not considered regionally significant under H-GAC regional emissions analysis.

Appendix F – Resource-specific Maps

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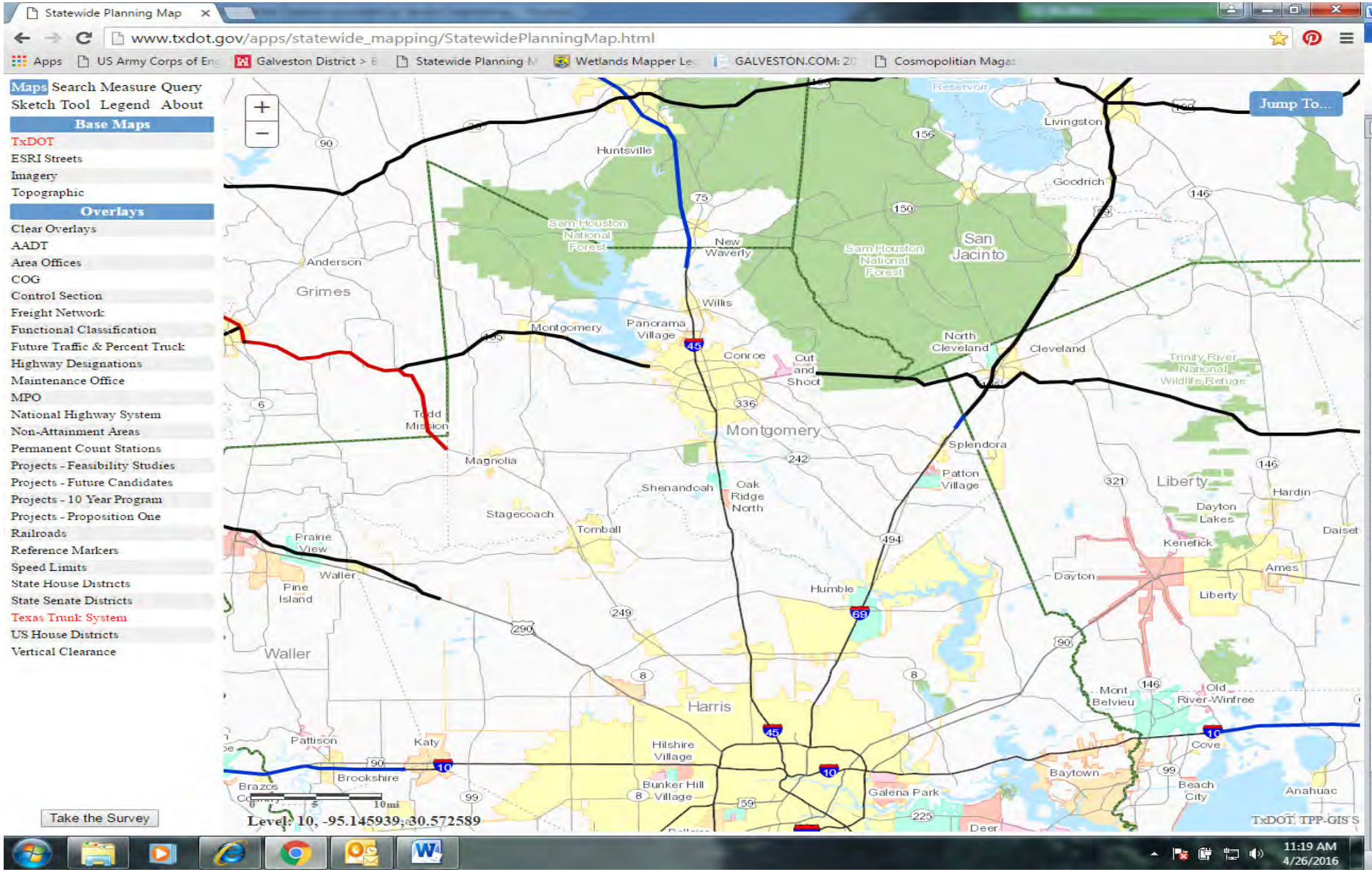

Exhibit 1:
Texas Trunk System Map
http://www.txdot.gov/apps/statewide_mapping/StatewidePlanningMap.html
Accessed: April 2016

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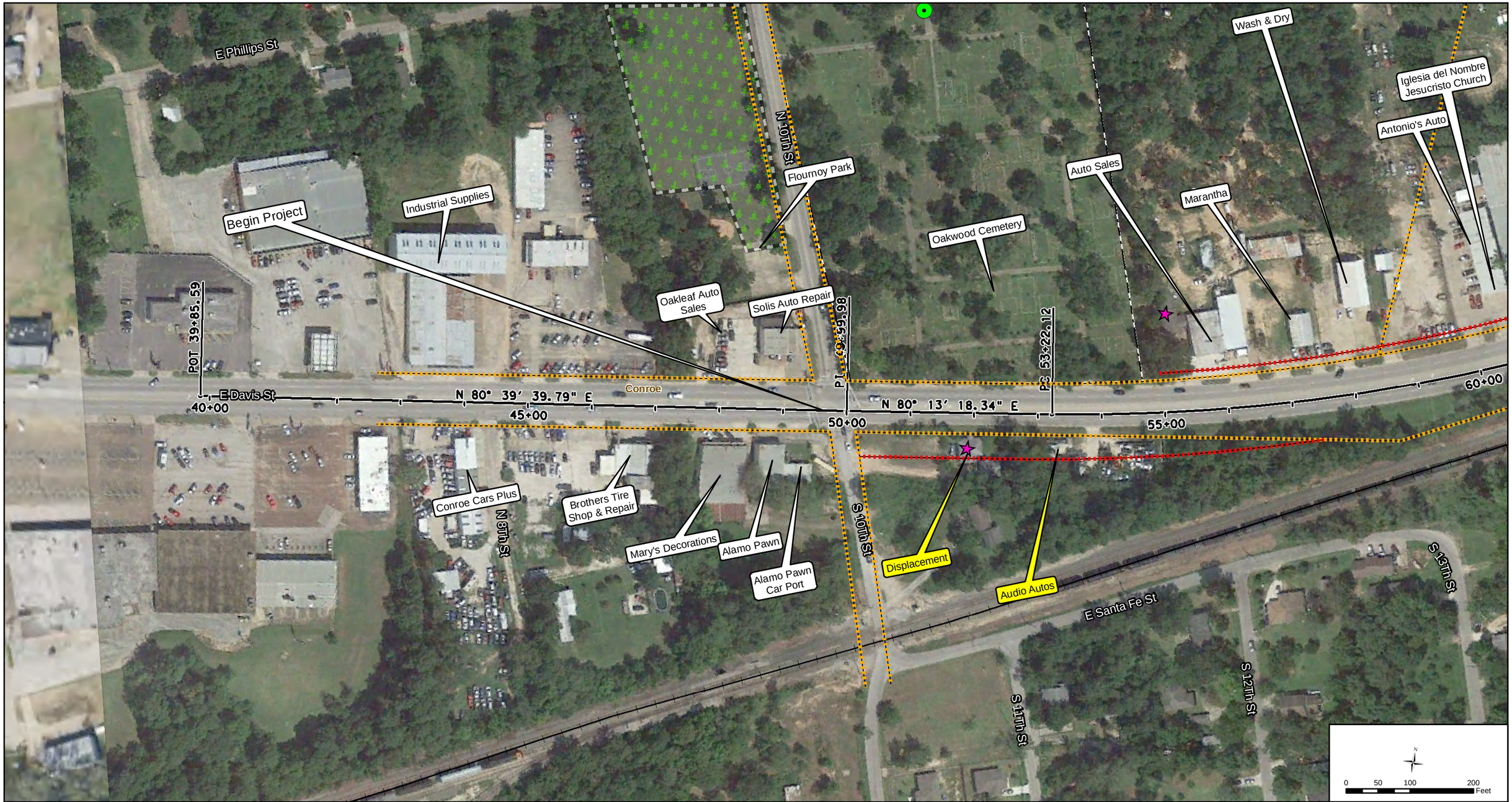

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SH 105
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Exhibit 2: Displacements, Adjacent Properties & Community Facilities

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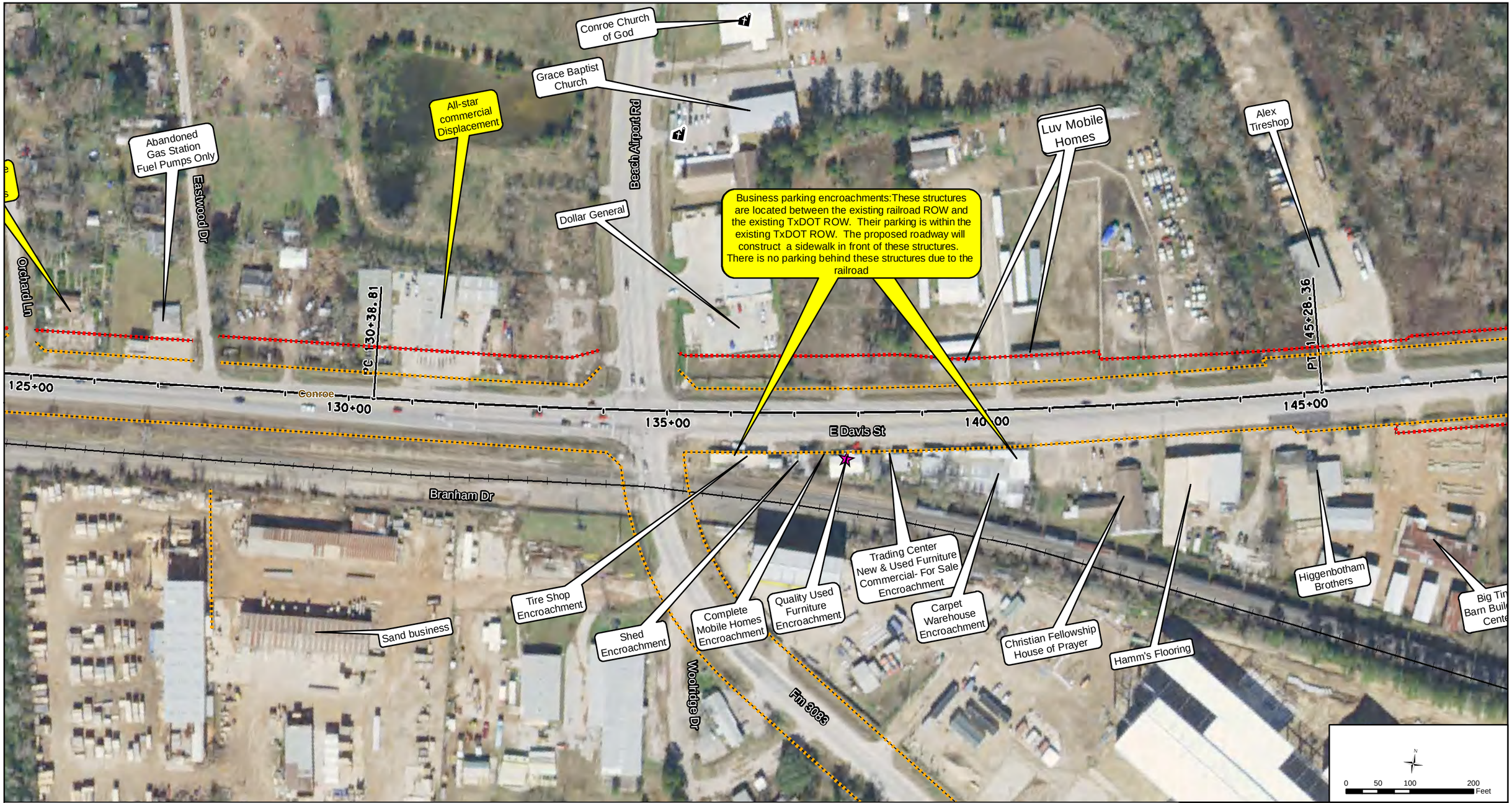

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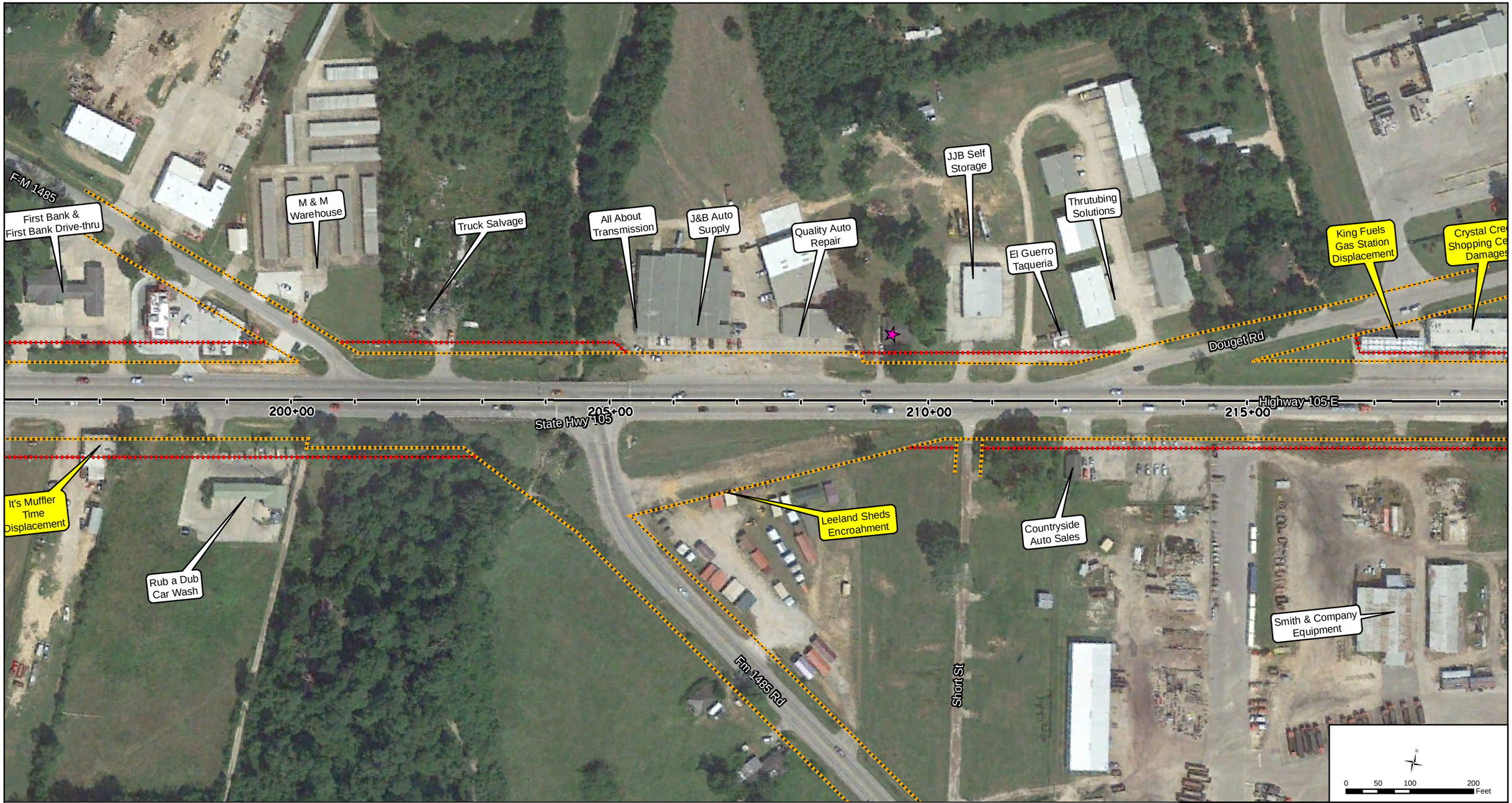

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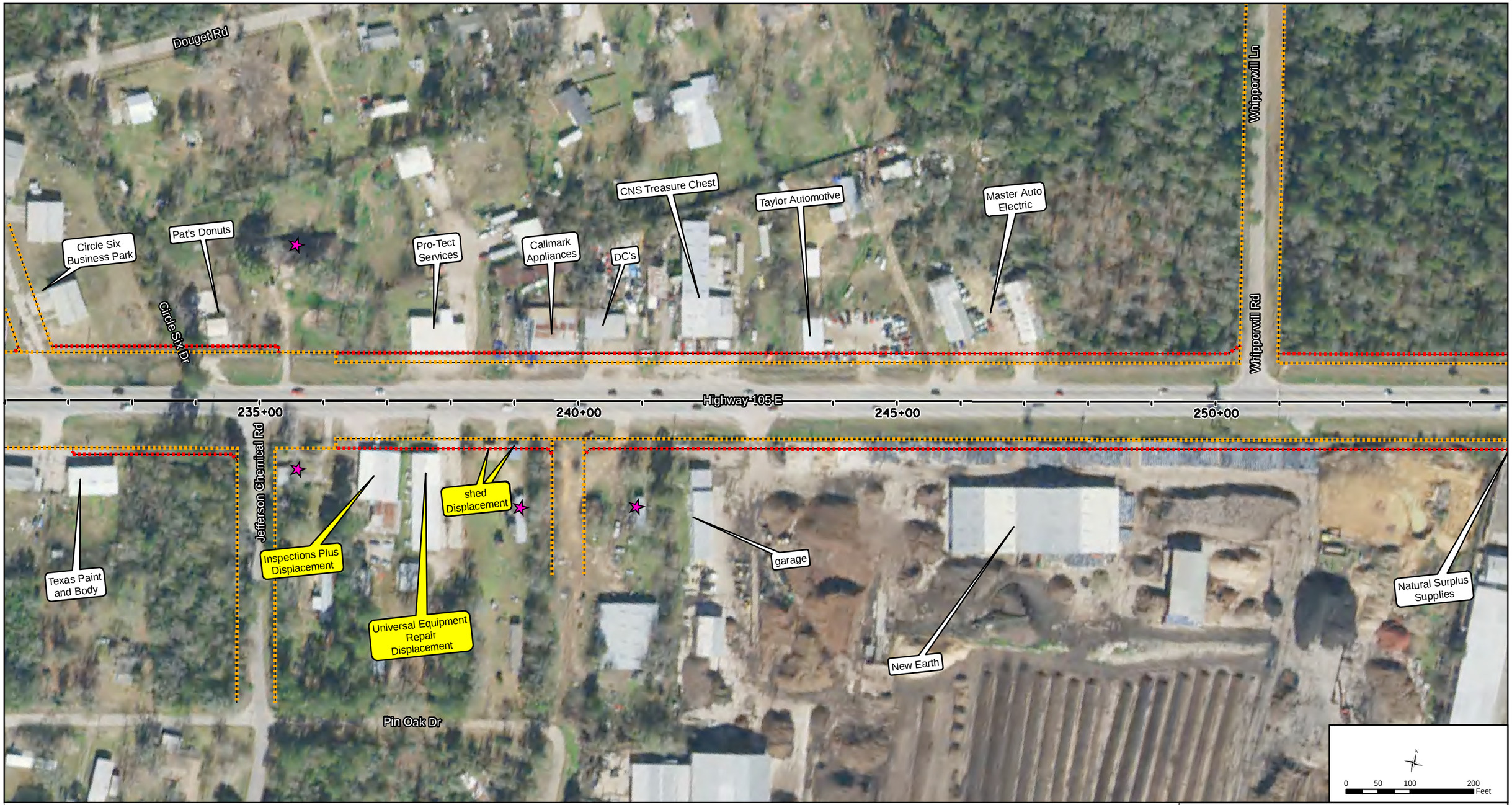

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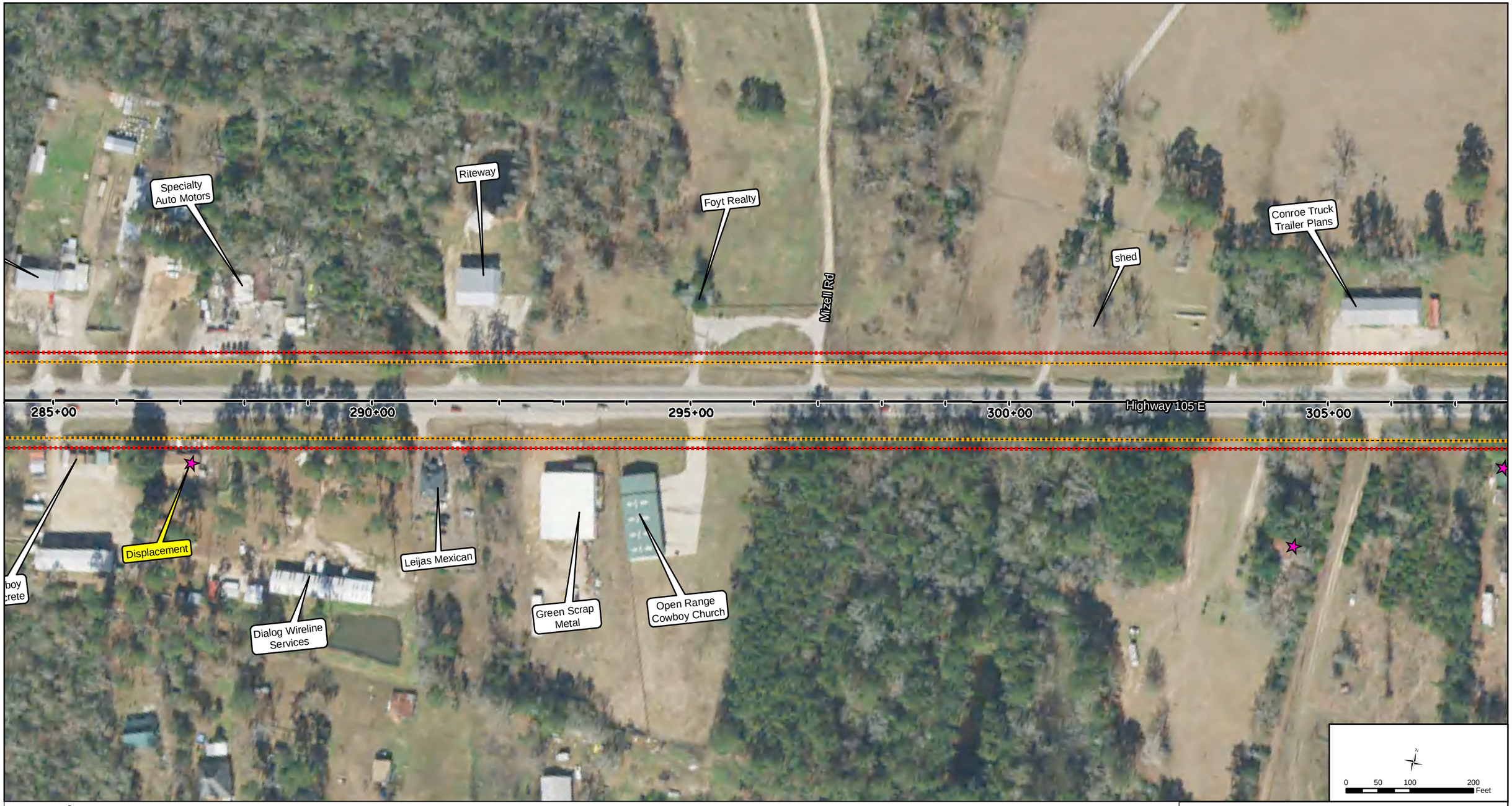

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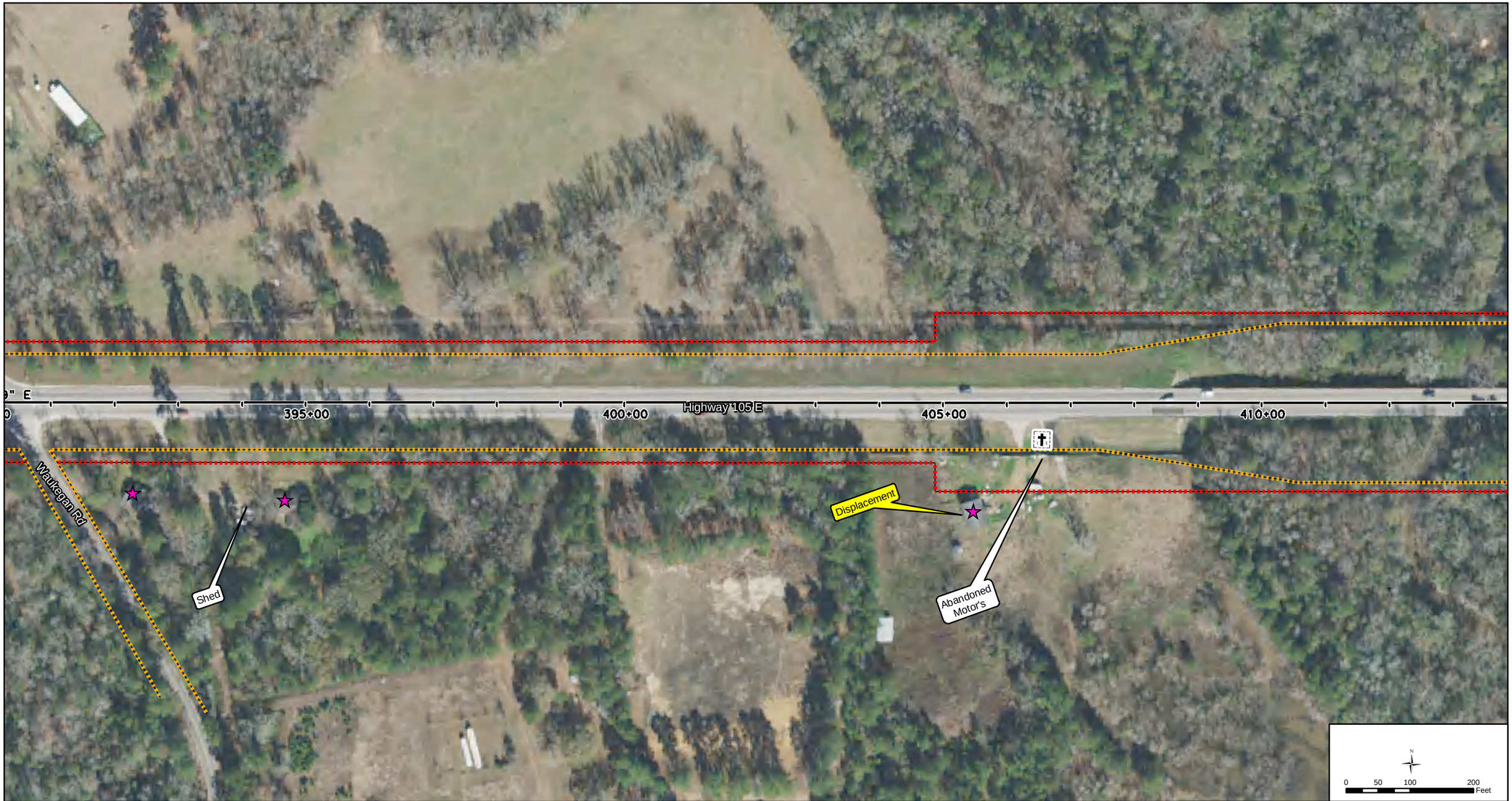

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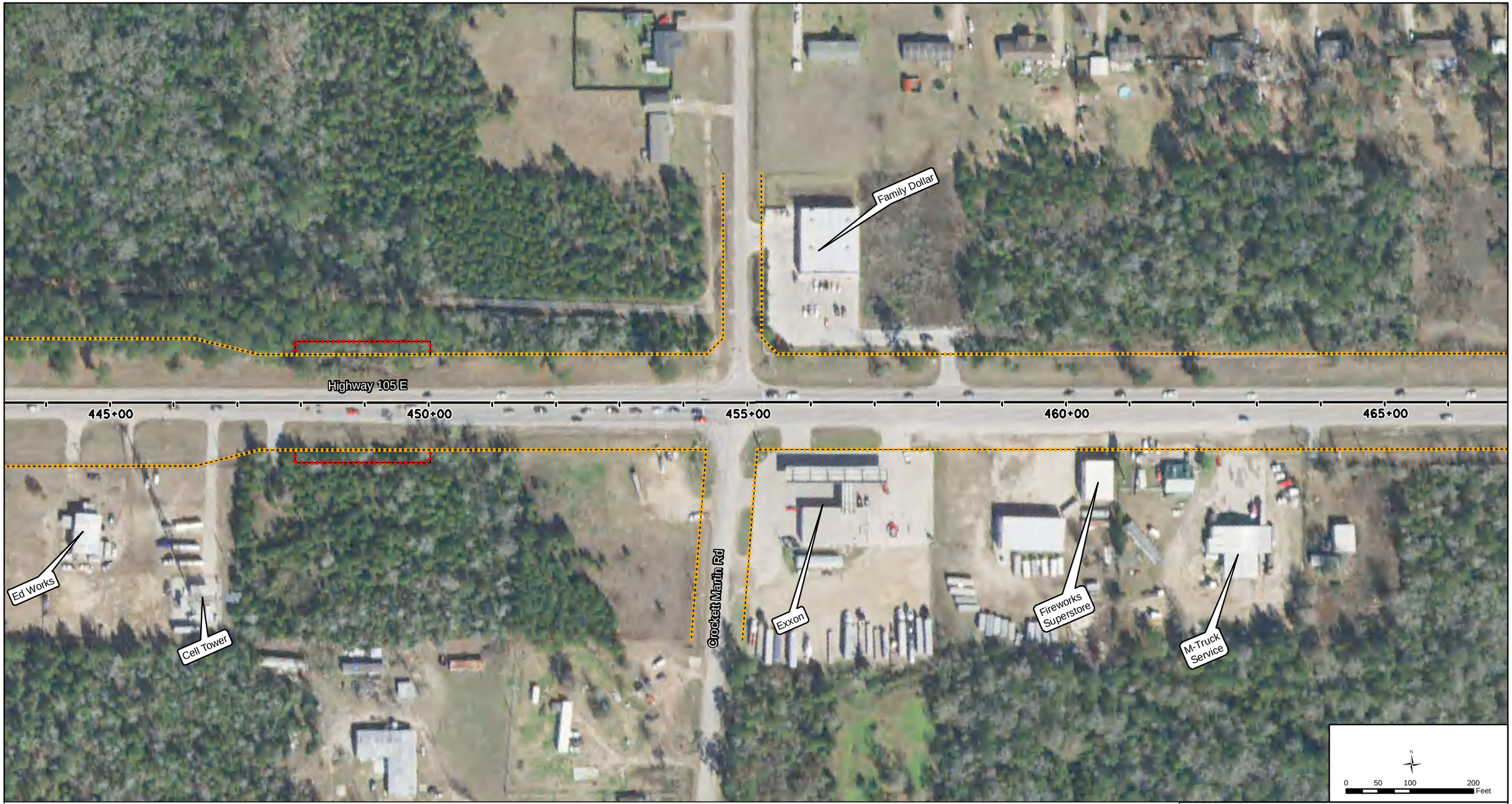

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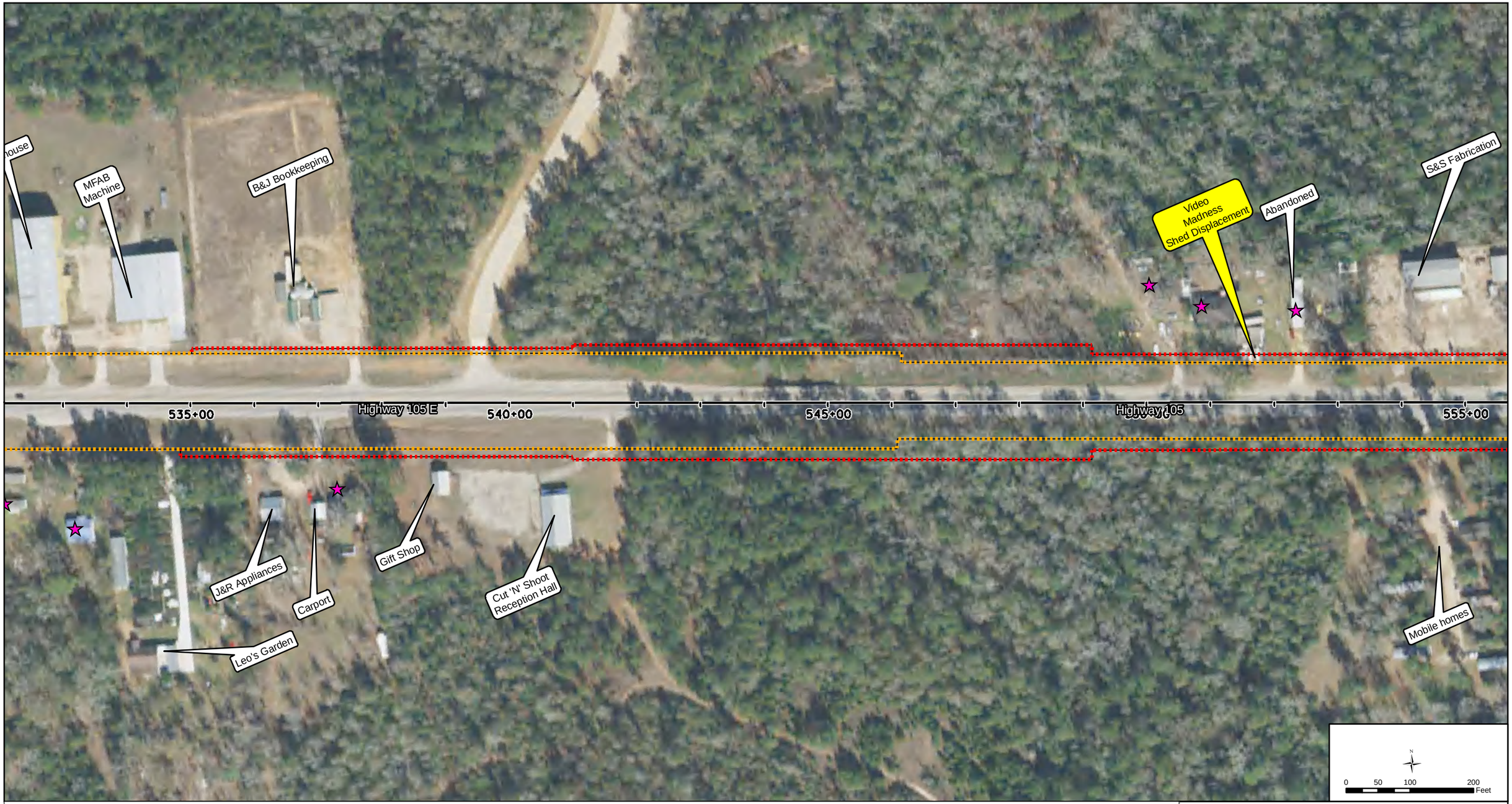

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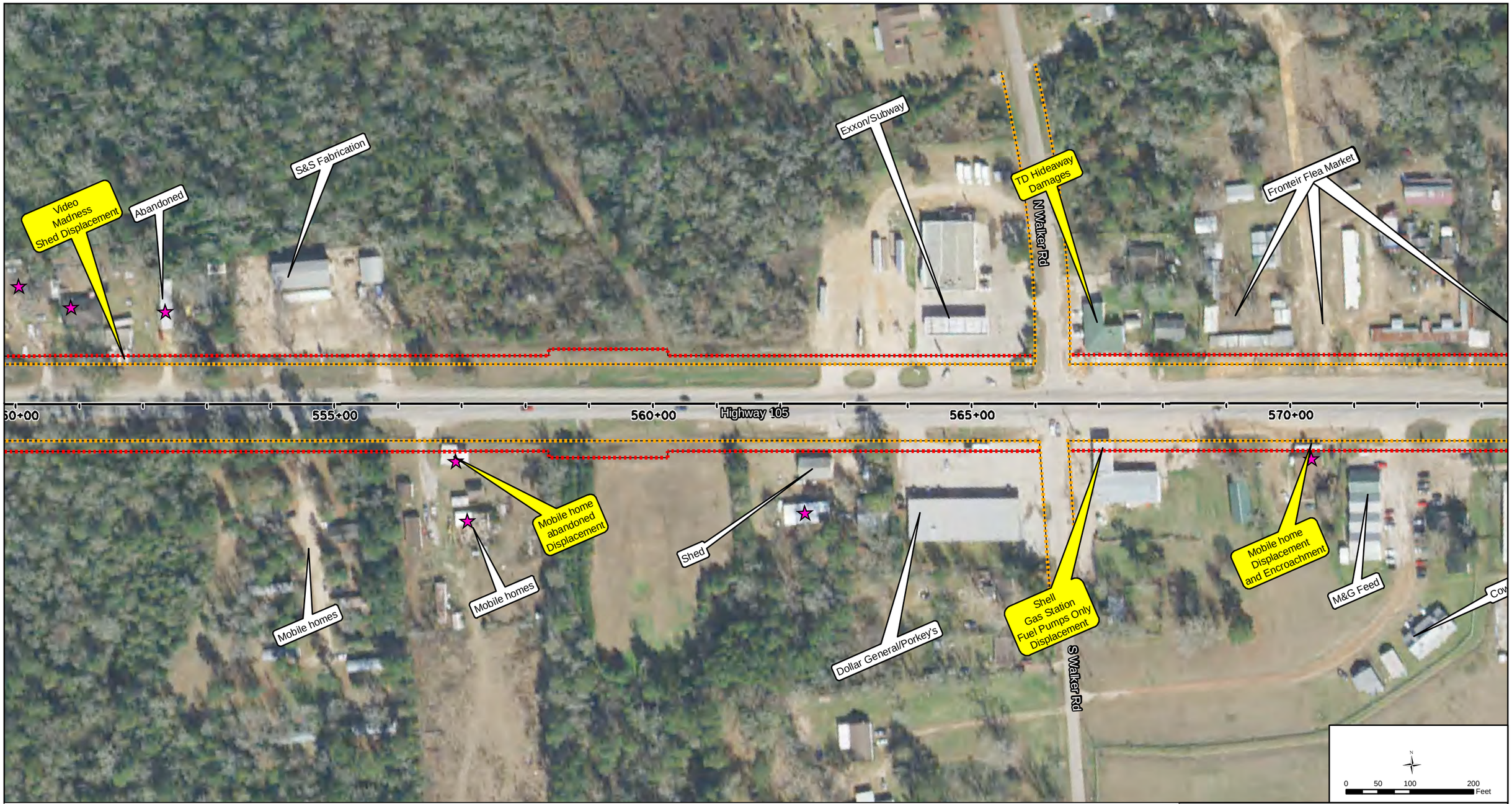

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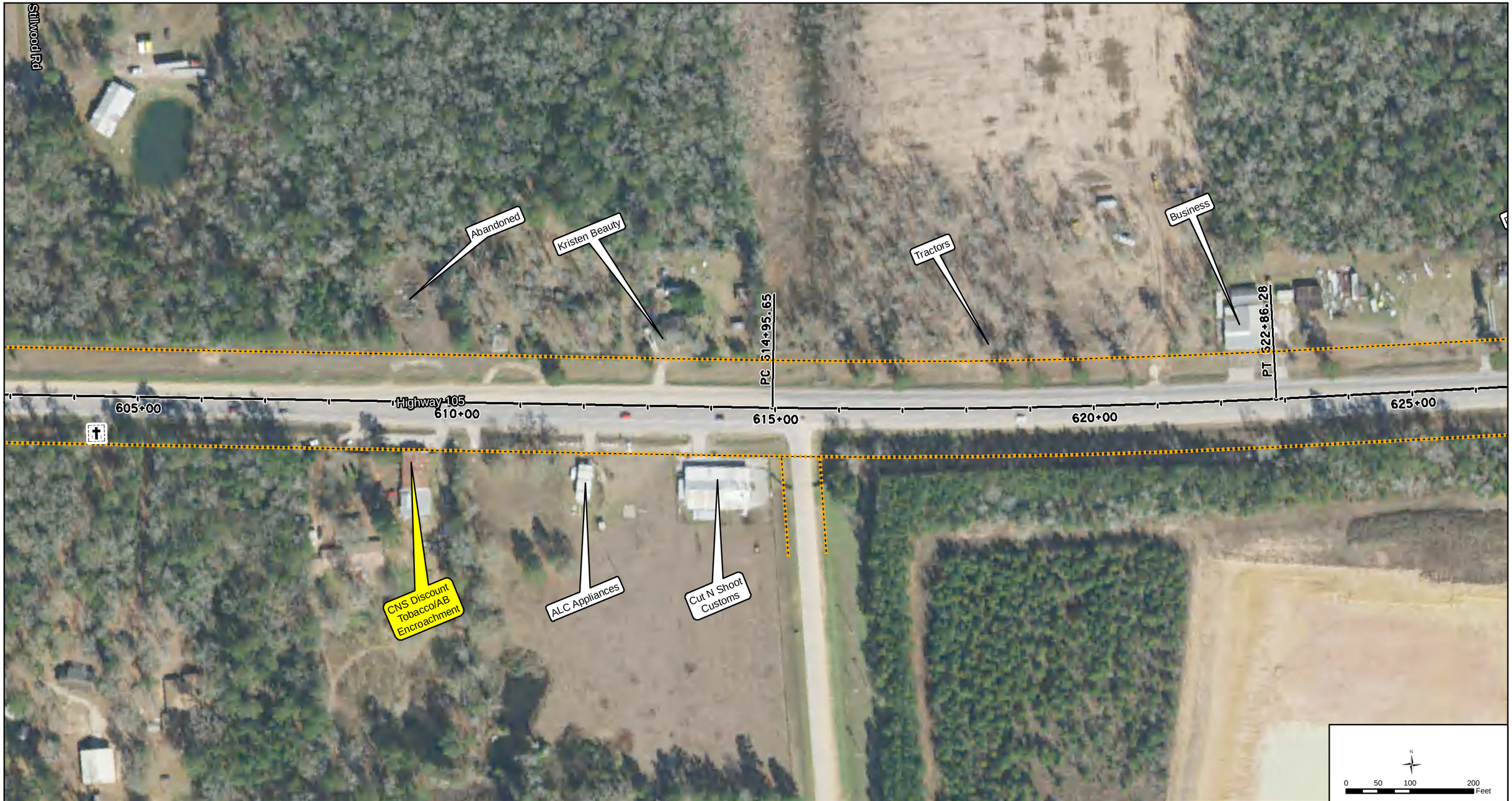

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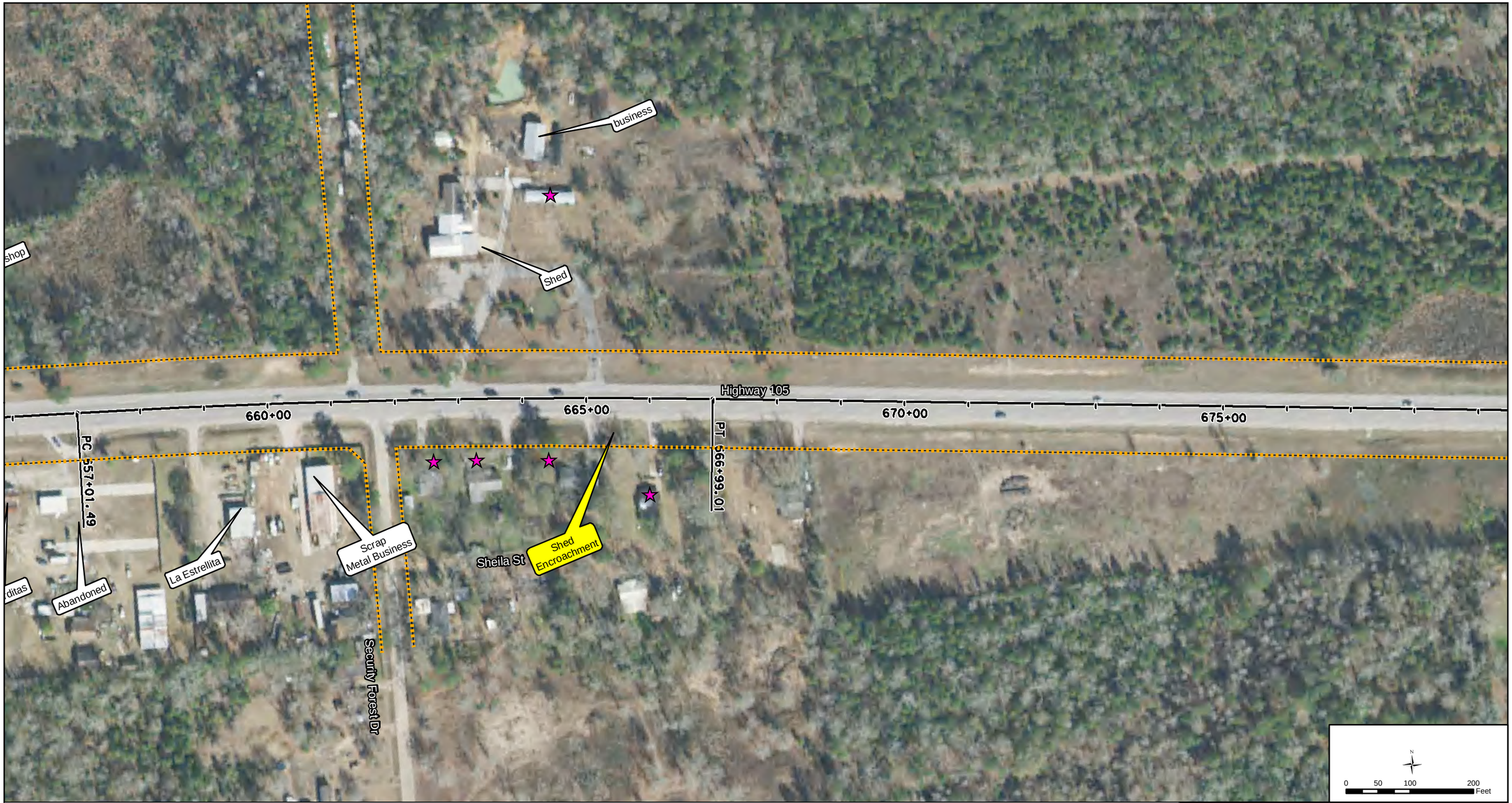

Legend

- Existing ROW
- Proposed ROW
- Residential
- Airport
- SH 105 Cemeteries
- SH 105 Churches
- SH 105 Schools
- US Post Office
- Fire Station
- Police
- Municipal Office
- Historical marker
- Drunk Driving Memorial
- Park
- Named Streams and Rivers
- Rail
- County Boundary
- Displacement, Damages, or Encroachment

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 2: Displacements, Adjacent Properties & Community Facilities

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- Existing ROW
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SH 105
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Montgomery, San Jacinto, and Liberty Counties, Texas

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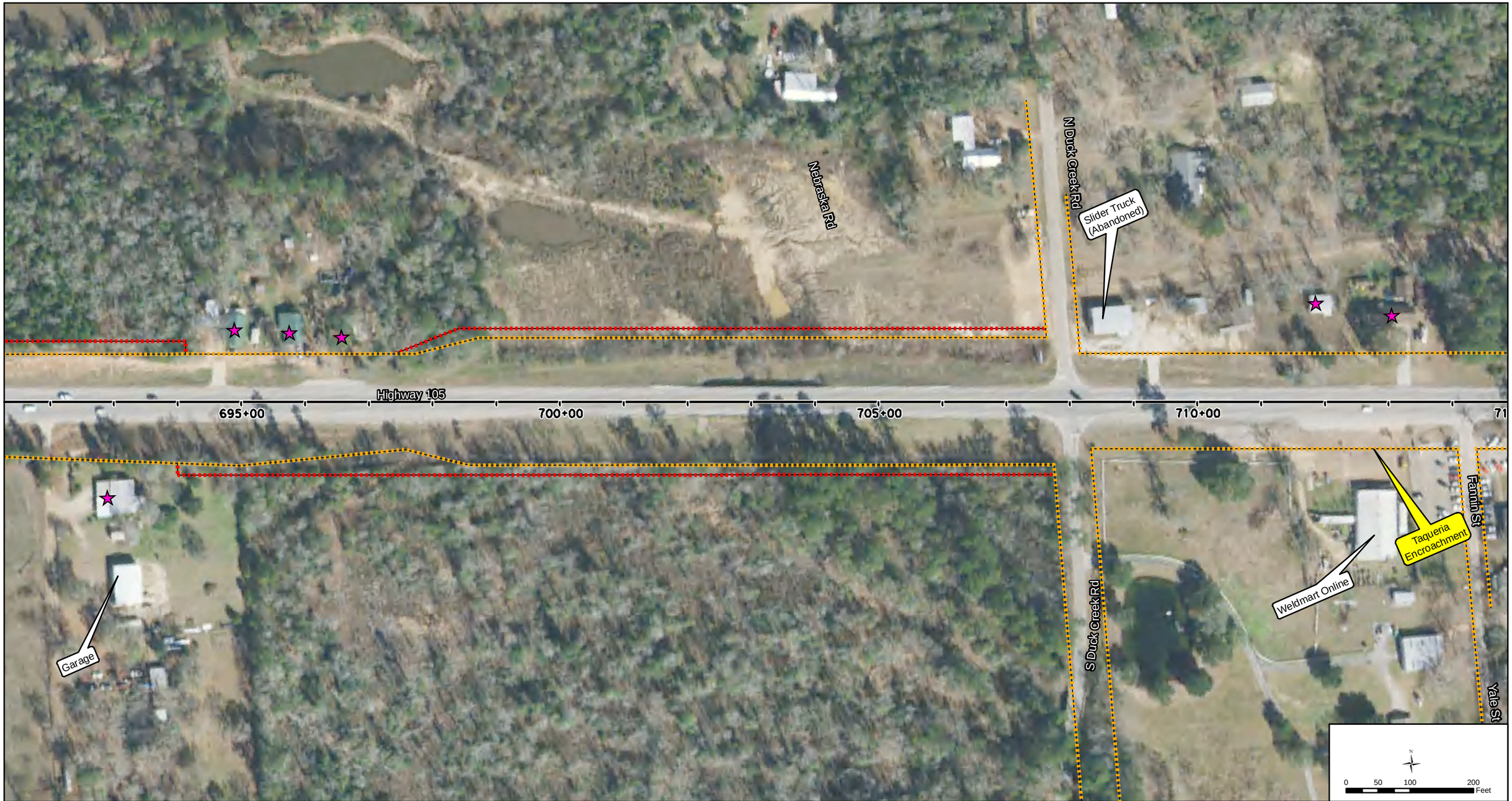

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 2: Displacements, Adjacent Properties & Community Facilities

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SH 105
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SH 105
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Montgomery, San Jacinto, and Liberty Counties, Texas

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Montgomery, San Jacinto, and Liberty Counties, Texas

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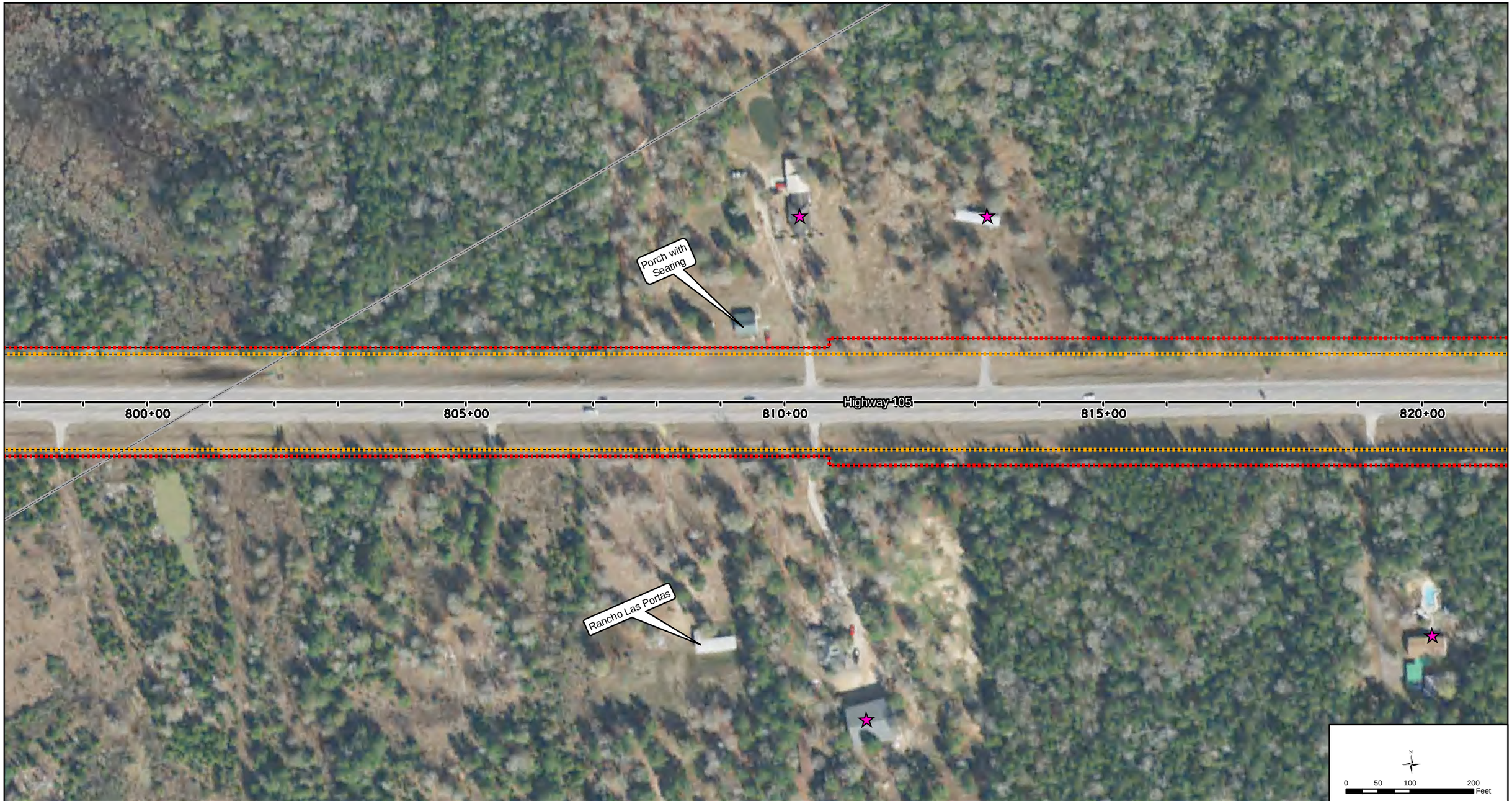

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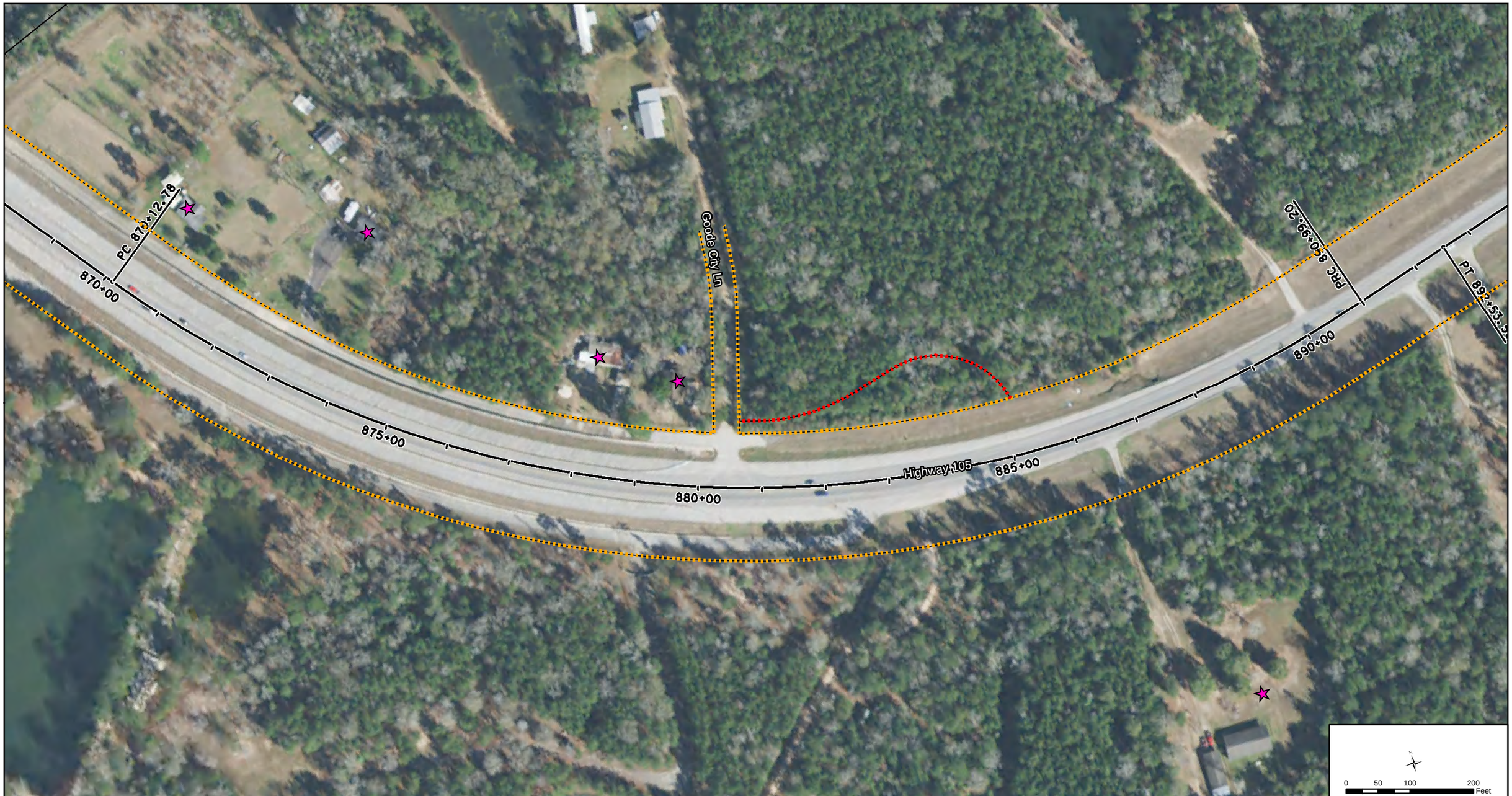

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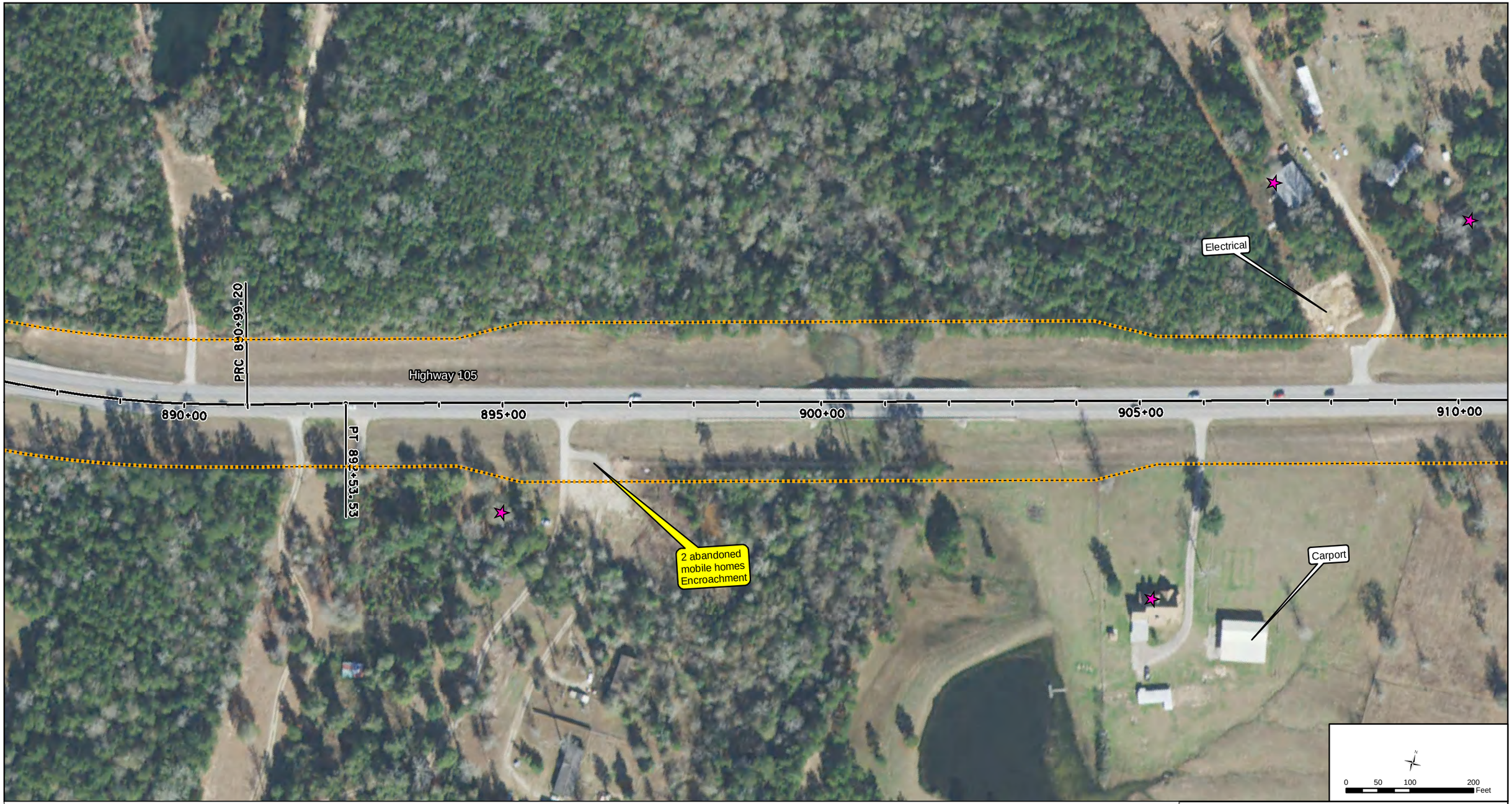

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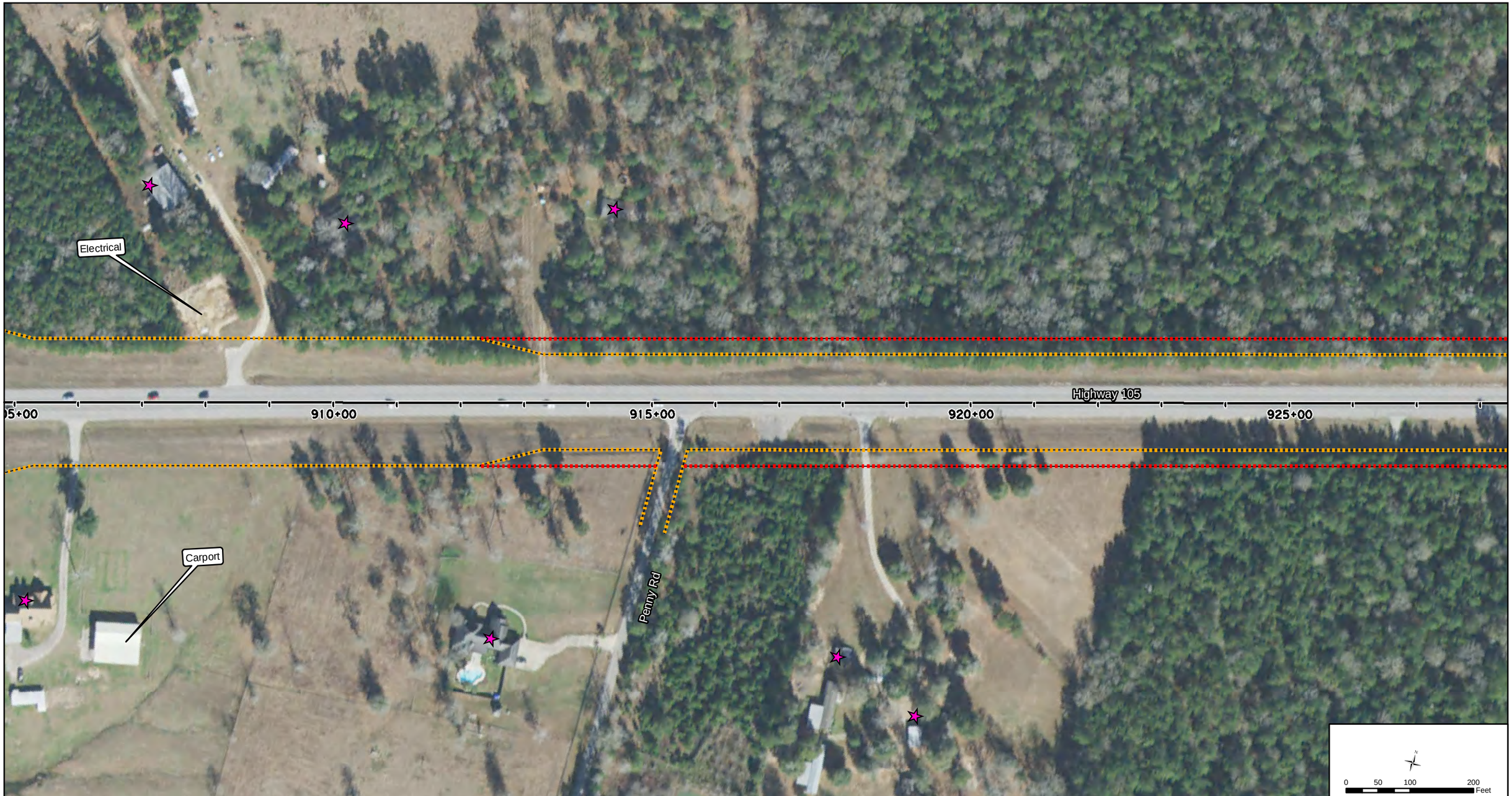

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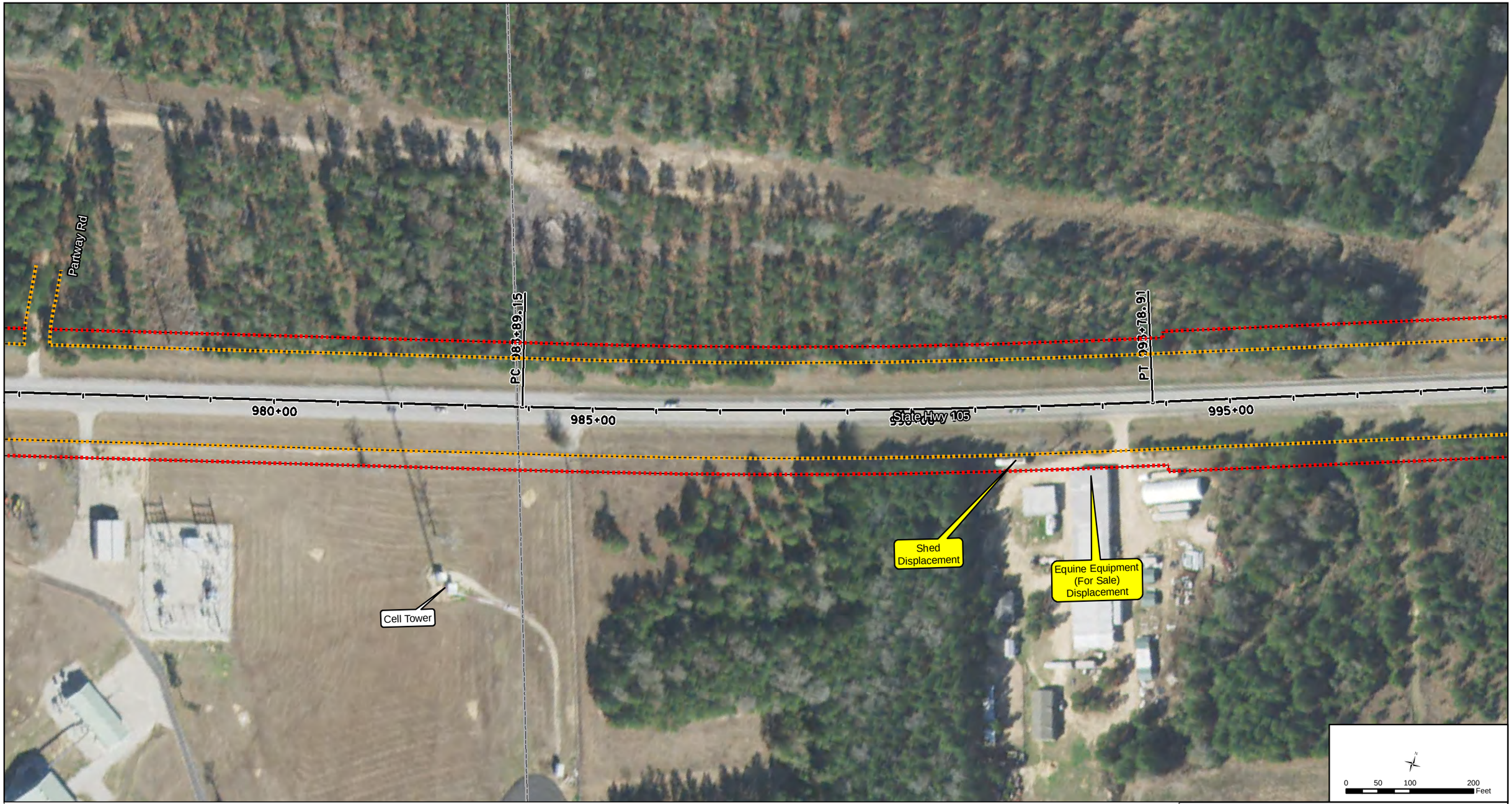

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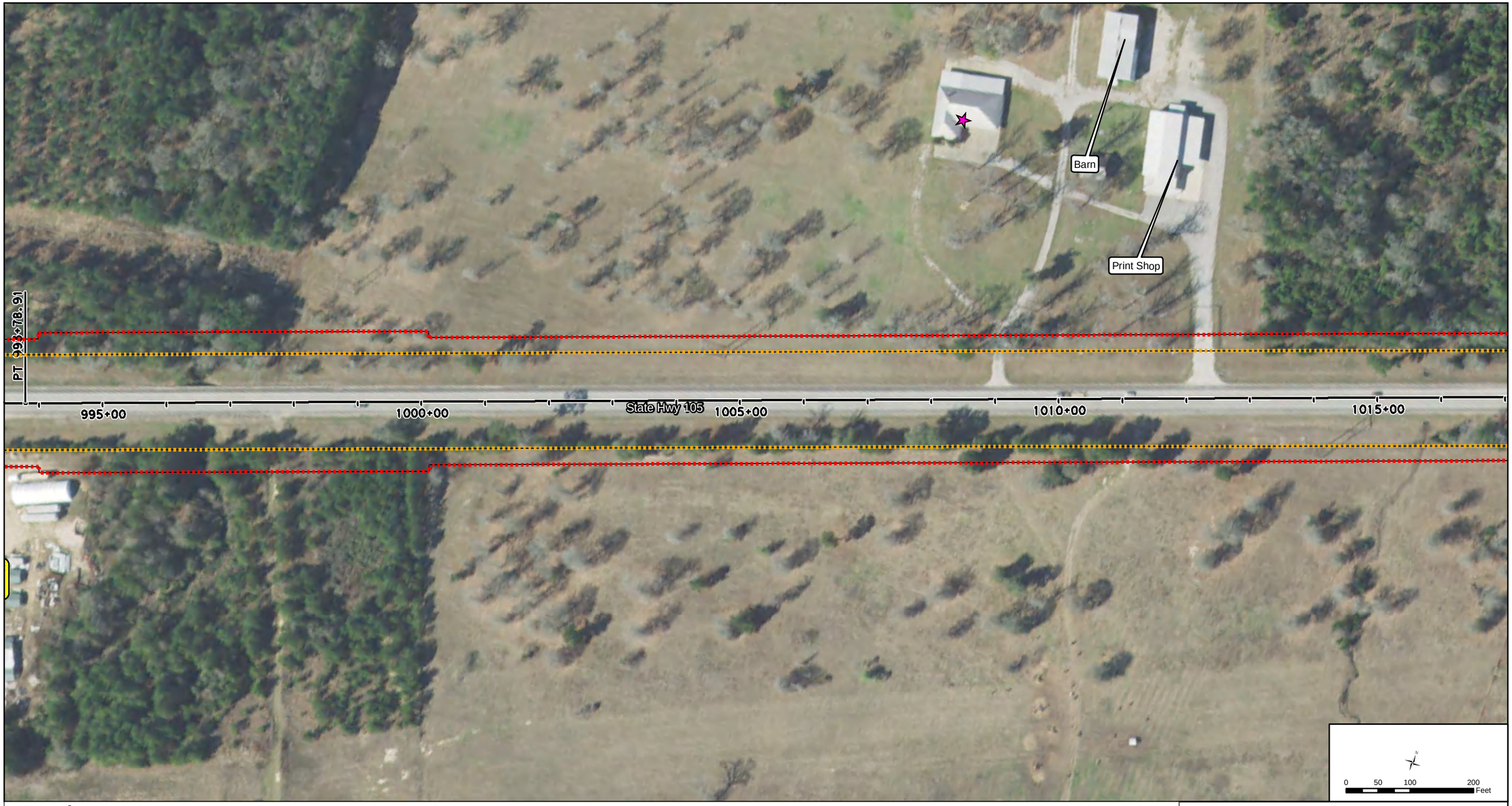

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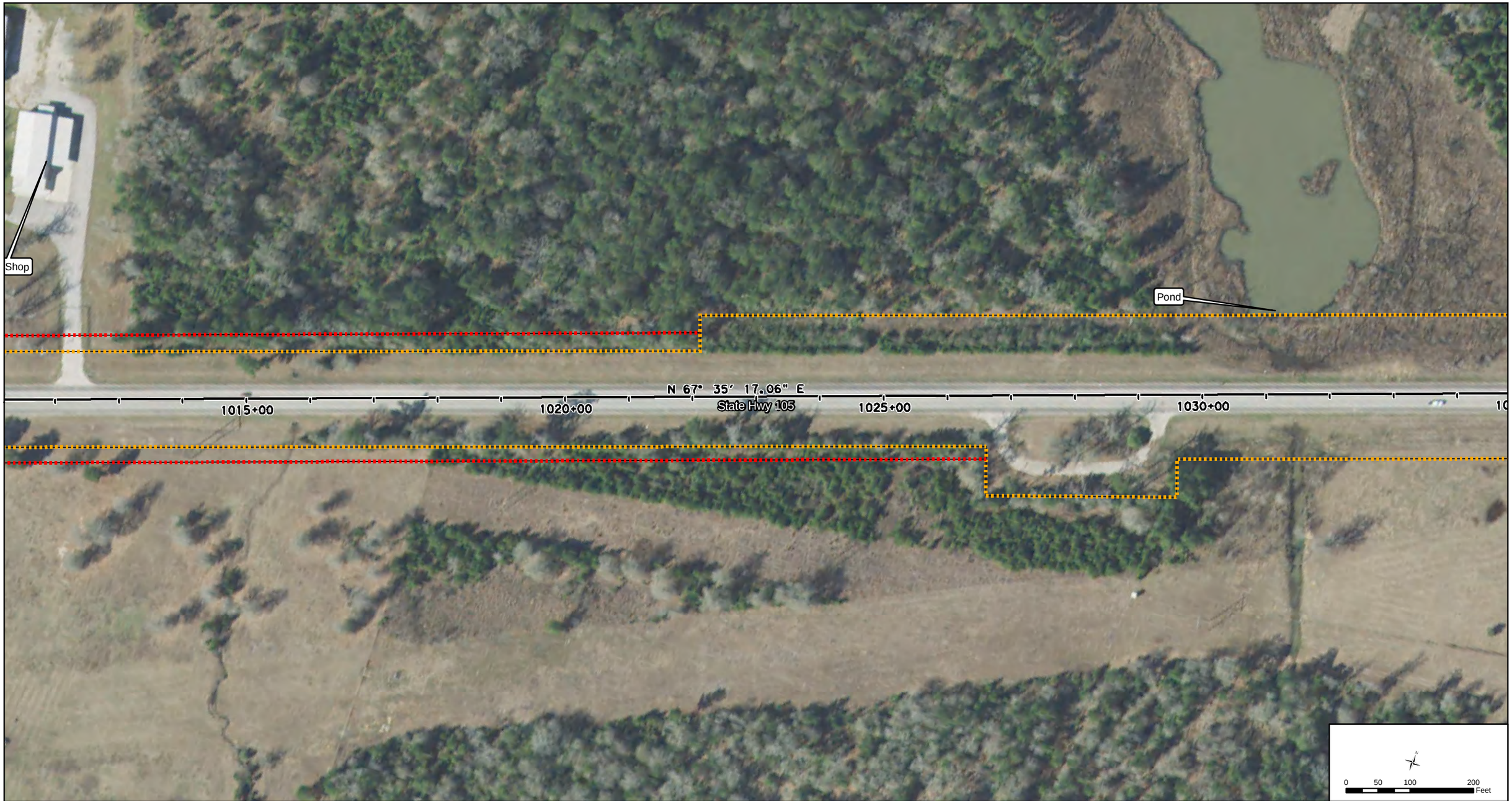

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SH 105
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Exhibit 2: Displacements, Adjacent Properties & Community Facilities

Sam Houston National Forest

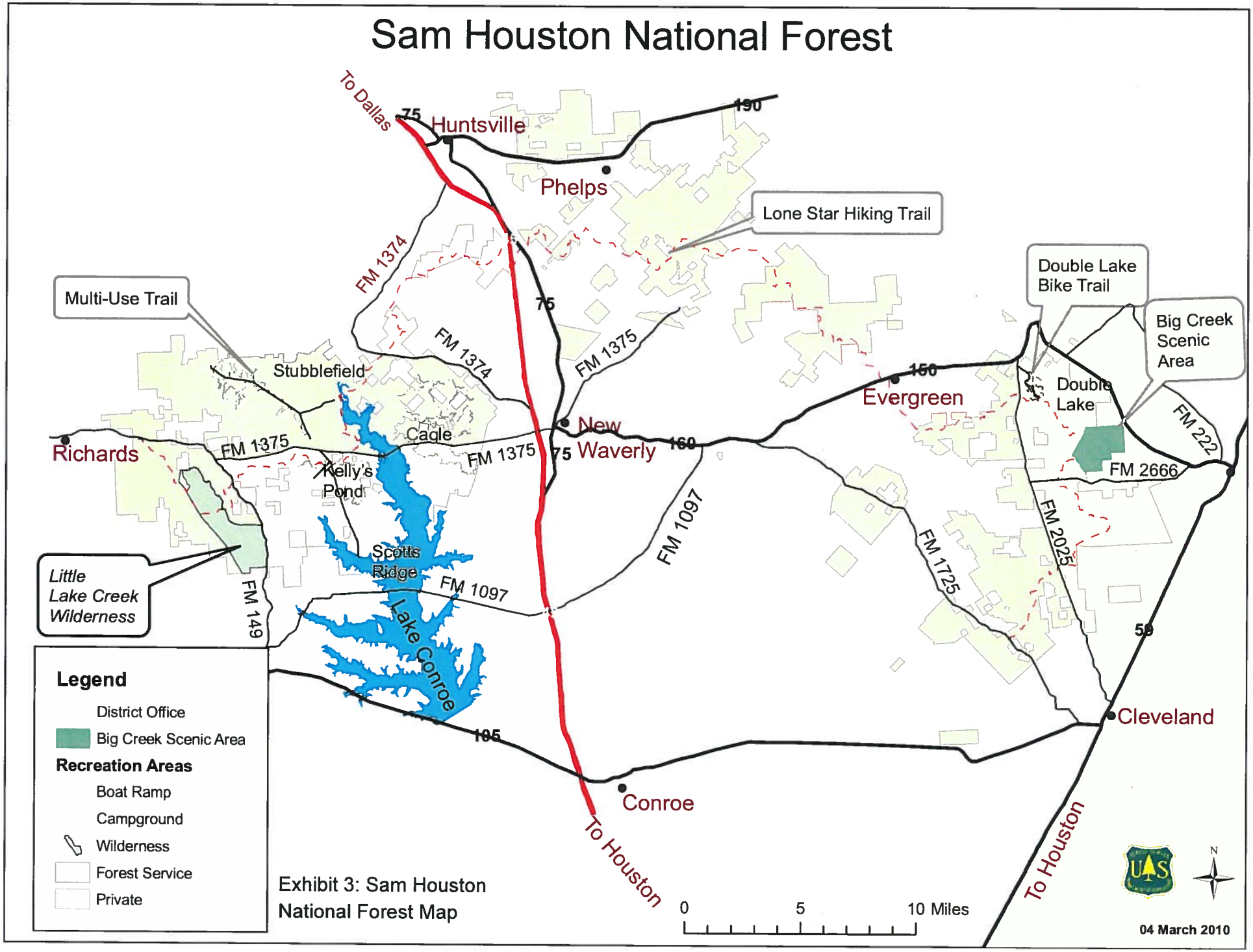

Exhibit 3: Sam Houston National Forest Map

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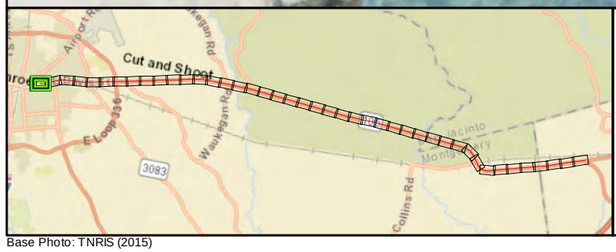
E Phillips St
N 10Th St
R52890
R215740
Stewarts Creek/ 0.045-acre
SP1
SP2
POT 39+85.59
E Davis St
40+00
N 80° 39' 39.79" E
45+00
PI 49+99.98
50+00
N 80° 13' 18.34" E
PC 53+22.12
55+00
R53026
60+00
PT 62+16.88
65+00
N 6Th St
N 8Th St
E Santa Fe St
S 13Th St
S 10Th St
S 11Th St
S 12Th St



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

R52890

R215740

Stewarts Creek/ 0.045-acre

SP1

SP2

PT 62+16.88

65+00

70+00

75+00

N 62° 26' 45.04" E

80+00

E Davis St

85+00

90+00

PC 87+13.20

R52883

E Santa Fe St

Porter Rd

Industrial Ln

Industrial Ct

Hopkins St

Legend

- Proposed ROW
- Existing ROW
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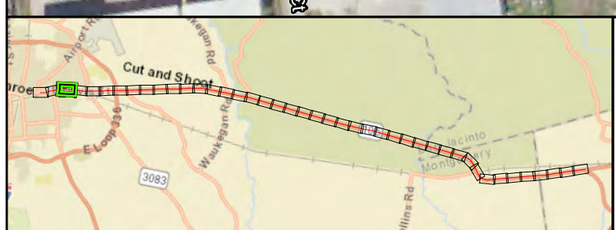

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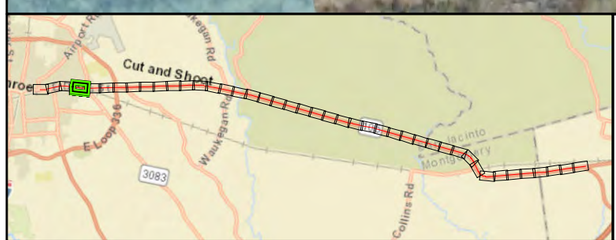

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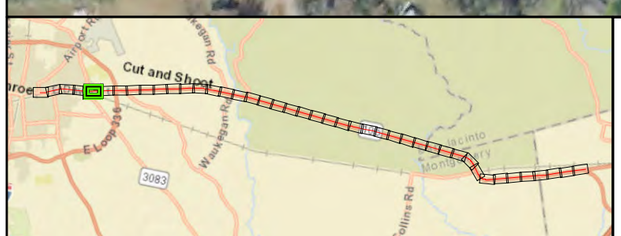
Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

Beach Airport Rd
R53464
R54665
R54652
R54646
Wetland 2/
0.050-acre
Tributary of Little
Caney Creek/
0.031-acre
SP6A1
145+28.36
SP6A
SP6B1
SP6B
SP6B2
Old Highway 105 E
135+00
140+00
145+00
150+00
155+00
160+00
E Davis St
Branham Dr
R54670
R54658
R54669
Woolridge Dr
Fm 3083



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From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Old Highway 105 E

R363638

R363640

Unnamed Drainage No.1/ 0.004-acre

Wetland 3/ 0.016-acre

SP6F

SP6E1

SP6E

SP6D

E Davis St

N 74° 10' 08.49" E

160+00

165+00

170+00

175+00

180+00

185+00

SP6E2

SP6C

Wetland 4/ 0.015-acre

R54670

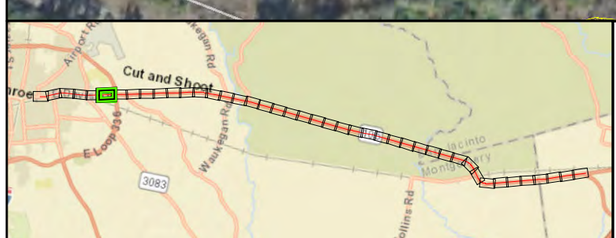
R54659

R54658

R54669

R95570

R95567



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From 10th Street in Conroe to Business 105
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Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

State Loop 336

F-M 1485

Old Highway 105 E

R363640

R57511

R58933

R267032

Wetland 6/
0.019-acre

West Fork
Crystal Creek/
0.051-acre

SP10

SP9

SP8

SP7

Wetland 5/
0.070-acre

Douget Rd

E Davis St

State Hwy 105

Highway 105 E

180+00

185+00

190+00

200+00

205+00

210+00

PC 192+81.41

PT 193+25.92

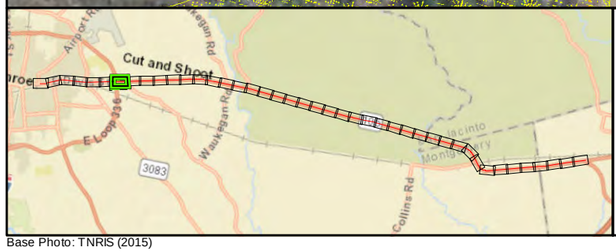
N Loop 336 E

R95567

R58949

Fm 1485 Rd

Short St



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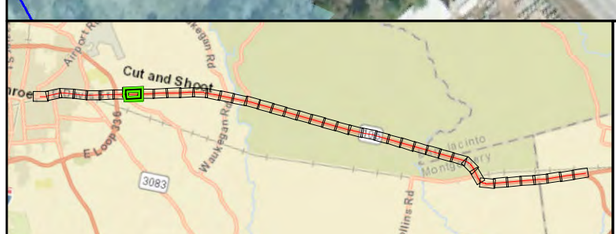
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Sadie Ln
Douget Rd
Whipporwill Ln
Whipporwill Rd
R39669
R59001
Wetland 8/
0.080-acre
West Fork Crystal
Creek Tributary No. 1/
0.116-acre
Circle Six Dr
SP14A1
SP13
SP14
SP11
SP12
230+00
235+00
240+00
245+00
250+00
255+00
Highway 105 E
Wetland 7/
0.020-acre
R77184
Pin Oak Dr
R39652
Hackberry Ln
Jefferson Chemical Rd
Red Oak Ln

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
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- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

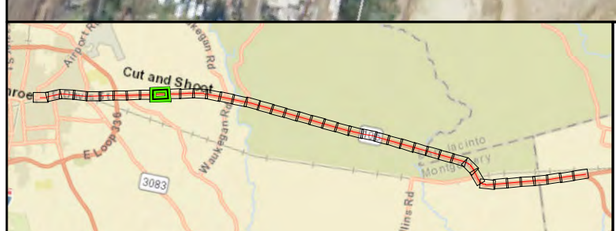
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
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- Pavement Design
- County Line
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- 100-year Floodplain
- NWI
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- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

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- Proposed ROW
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- NWI
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- Jurisdictional Wetland
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ROE Tracking

- YES
- NO

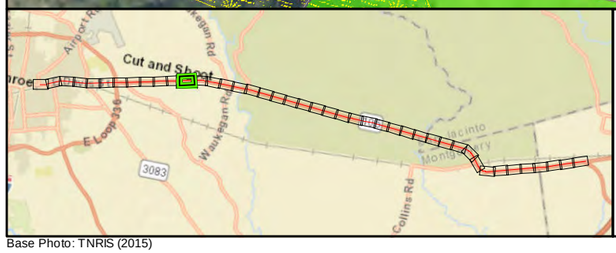
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

R258031
R57175
R317232
Rollinghills Rd
R57163
Wetland 10/
0.004-acre
East Fork
Crystal Creek/
0.058-acre
SP17A1
SP17A2
SP14H
SP17
Fm 2432 Rd
300+00
Highway 105 E
310+00
315+00
320+00
325+00
330+00
SP14G
SP16
SP15
SP17C
SP17A
SP17B
PC 326+06.06
R57217
R38923
R57265
R57222
R57232



Legend

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- Pavement Design
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- NWI
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ROE Tracking

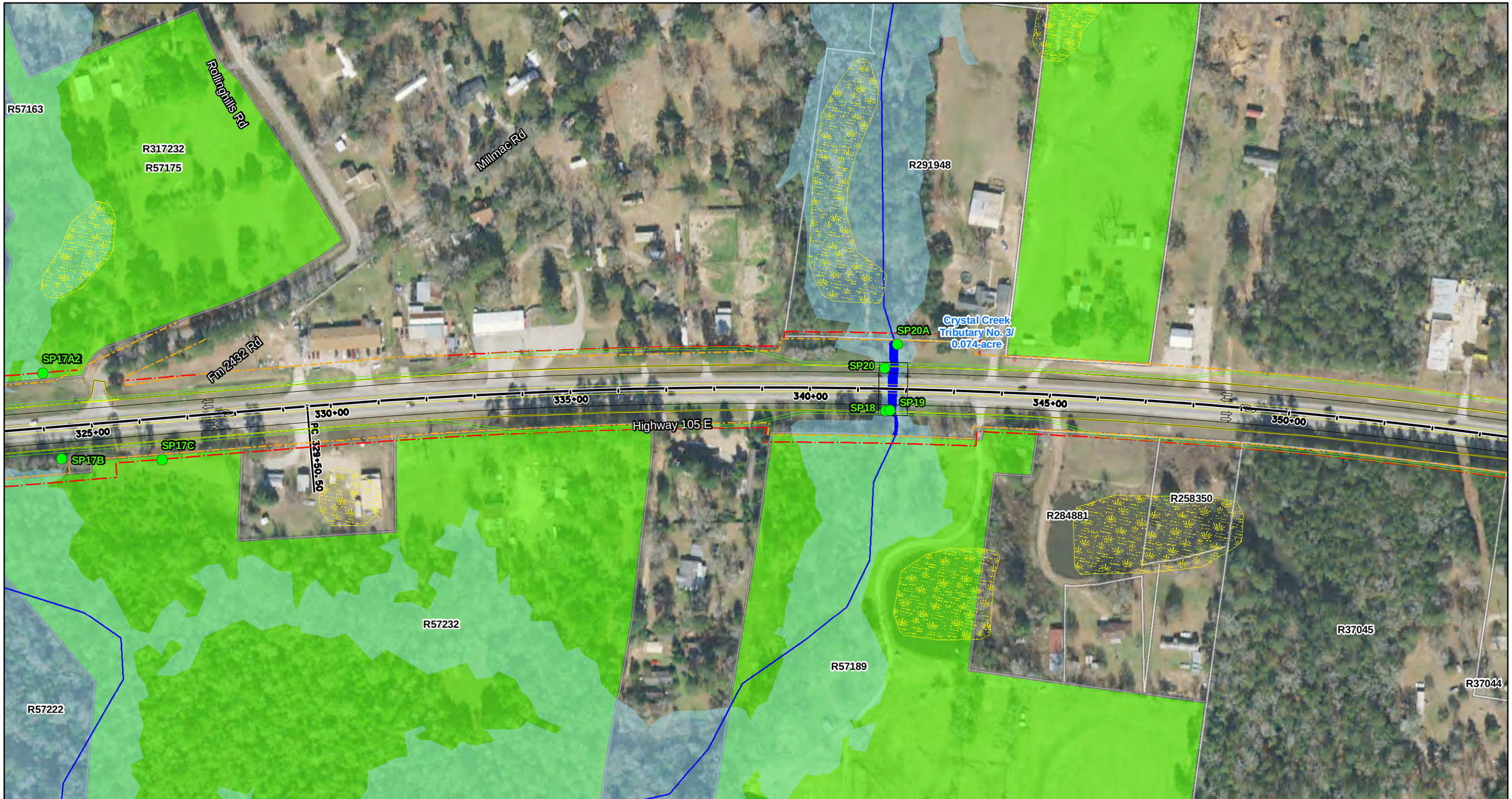
- YES
- NO

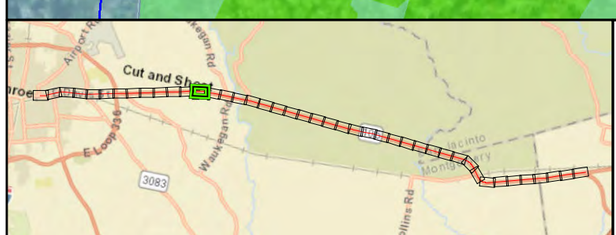
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)





Legend

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

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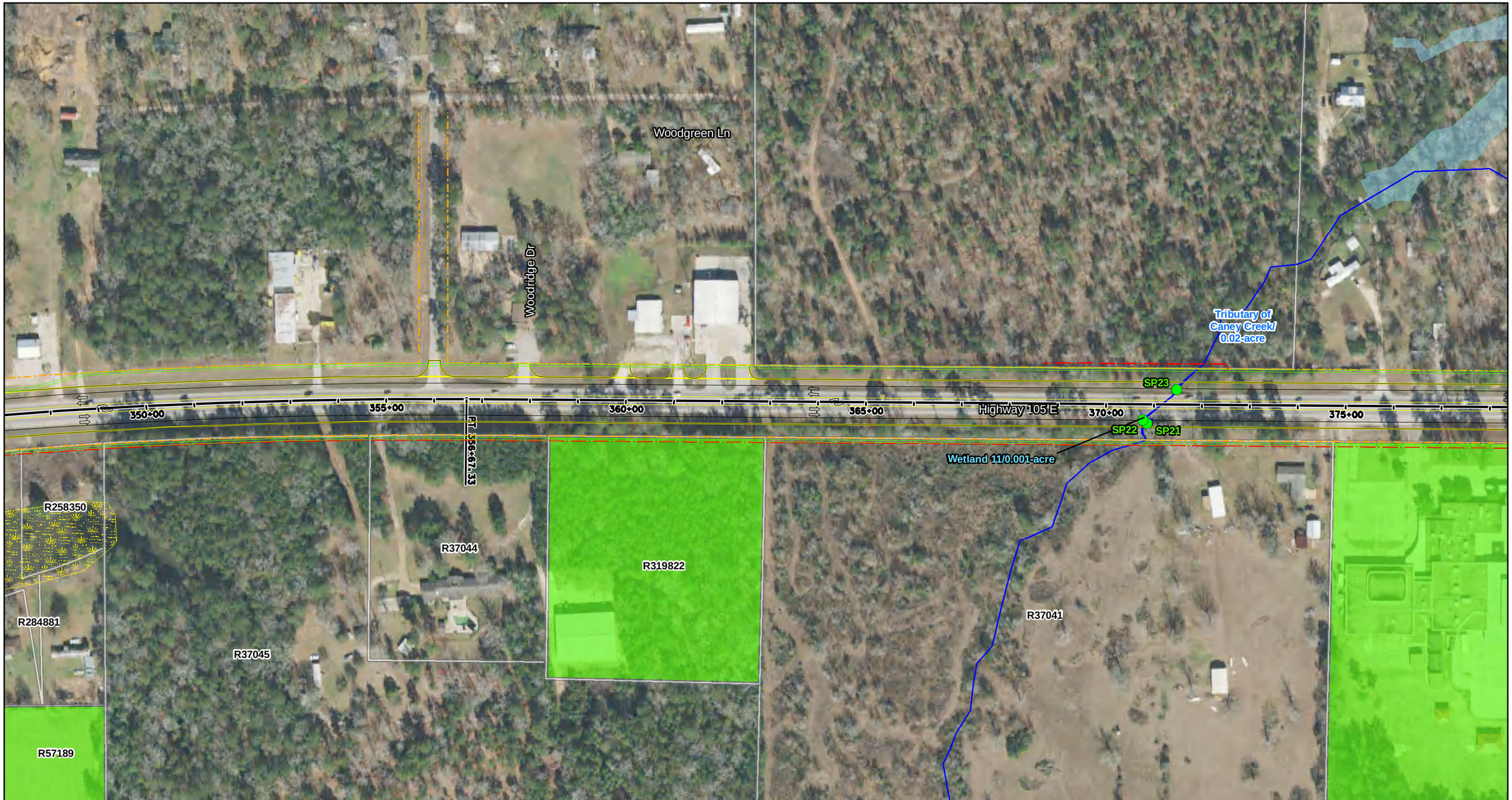

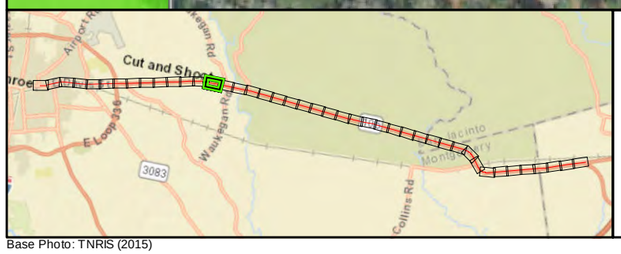

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ROE Tracking

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- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

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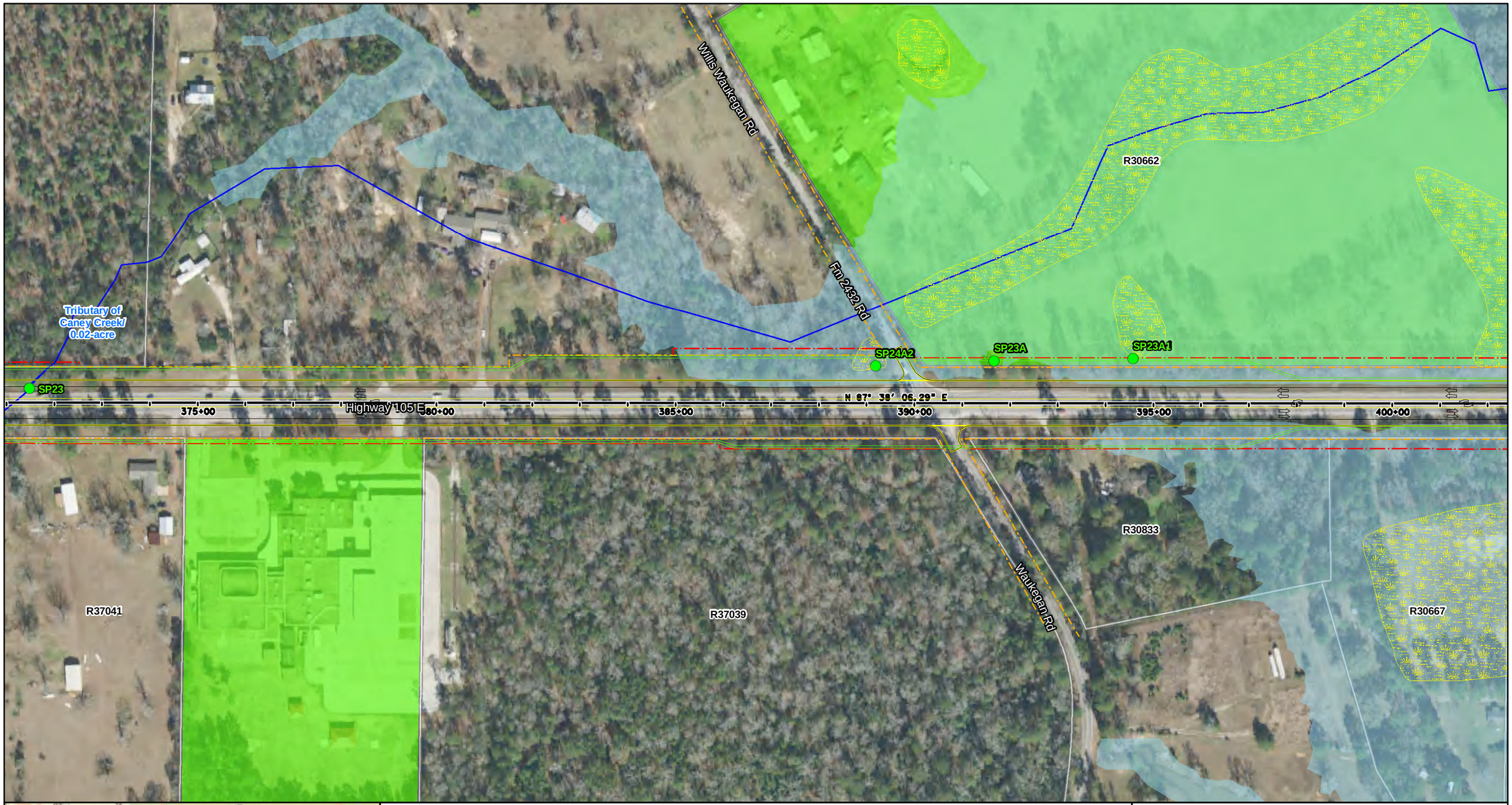
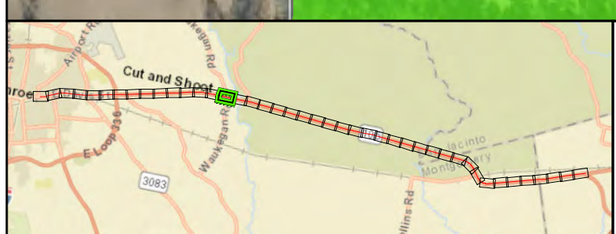
Base Photo: TNRIS (2015)





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ROE Tracking

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- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

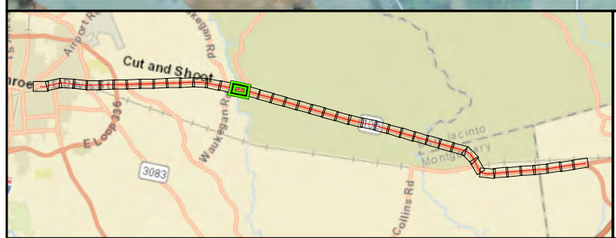
Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

R30662
R30674
R30676
R30799
R30672
R30722
R30693
R30801
R37158
Fm 1484 Rd
Adams Rd
Wetland 12/
0.061-acre
Wetland 14/
1.394-acres
Caney Creek/
0.146-acre
SP23D
SP23C
SP23B
SP23J1
SP23J3
SP23J5
SP23K
SP23G
SP23M
SP23J
SP23J2
SP23L
SP23H
SP23F
SP23I
SP23J7
SP23E
SP23J4
SP23N
SP23J9
SP23J8
SP23J6
R30800
R30677
Highway 105 E
400+00
405+00
410+00
415+00
420+00
425+00
PC 422+54.24
Wetland 13/
0.018-acre
R30675
R30833
R30673
R30670
R30665
R30667
R30666
R37132



Legend

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ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

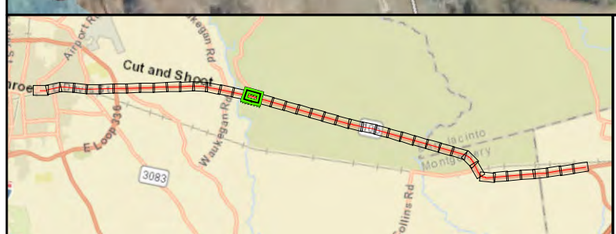
Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

R37124
R37126
R30722
Fm 1484 Rd
R403217
Kelley Rd
R290507
R30693
R30801
R37158
Adams Rd
R30799
Cagle Branch/
0.047-acre
Unnamed
Drainage No. 2/
0.036-acre
SP25A
State Hwy 105
Highway 105 E
420+00
425+00
430+00
435+00
440+00
445+00
450+00
SP25
SP24
SP24A
SP24B
SP24C
PC 422+54.24
PT 430+68.92
R30800
R30677
R252884
R37122
R37132



Legend

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From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

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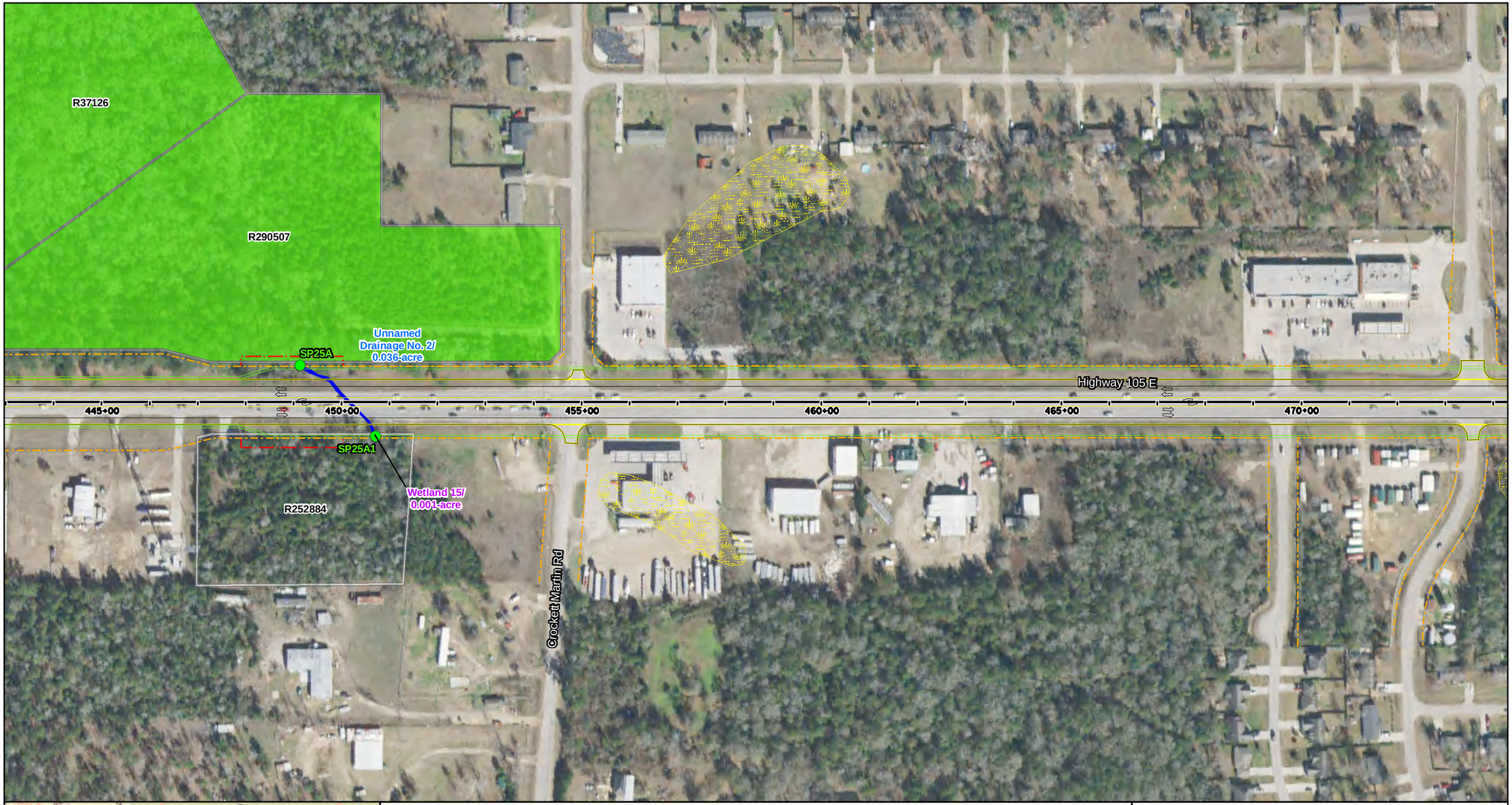

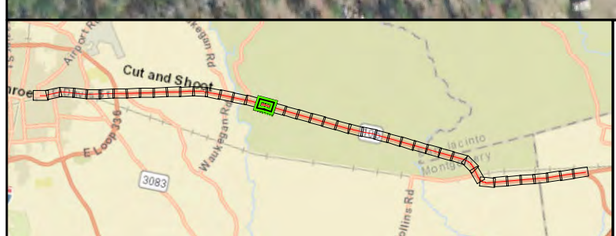

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

Unnamed
Drainage No. 3/
0.036-acre

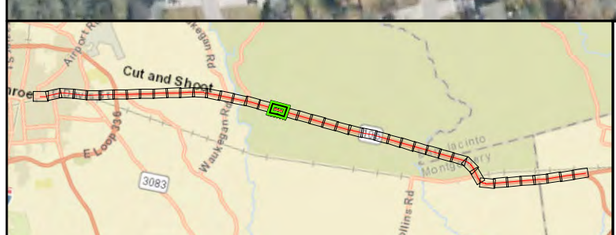
Highway 105 E

470+00 475+00 480+00 485+00 490+00 495+00

SP25B

Wetland 16/
0.006-acre

Old Highway 105 E



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SH 105
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Montgomery, San Jacinto, and Liberty Counties, Texas

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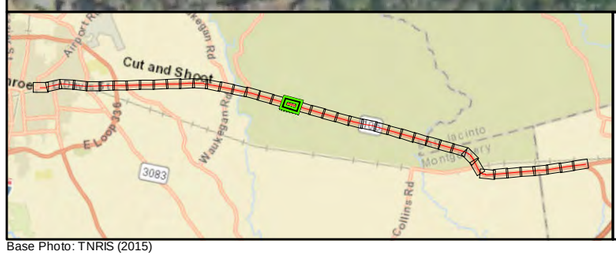
Base Photo: TNRIS (2015)



Legend

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SH 105
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Montgomery, San Jacinto, and Liberty Counties, Texas

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0 125 250 500 Feet

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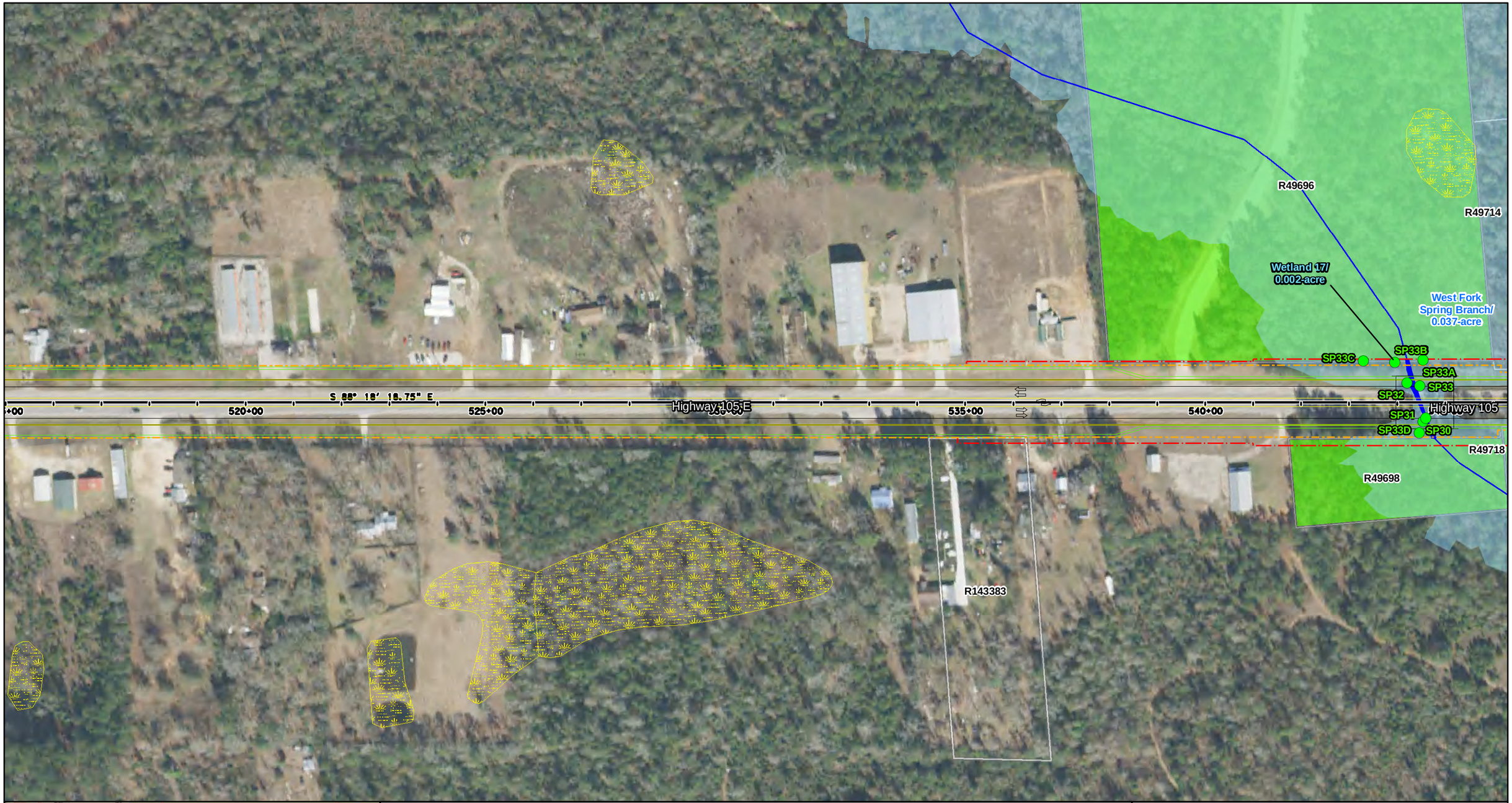

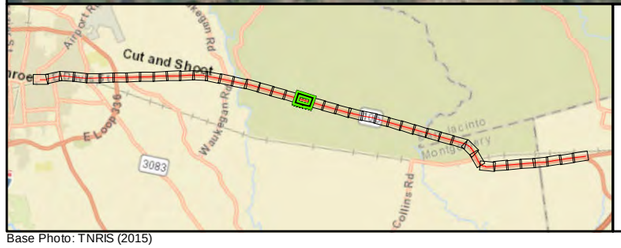

Legend

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

R49696

R49714

R49786

R49828

Wetland 17/
0.002-acre

West Fork
Spring Branch/
0.037-acre

SP33C

SP33A

SP33B

SP33

SP32

SP31

SP30

SP33D

SP33E

540+00

Highway 105 E

Highway 105

555+00

560+00

565+00

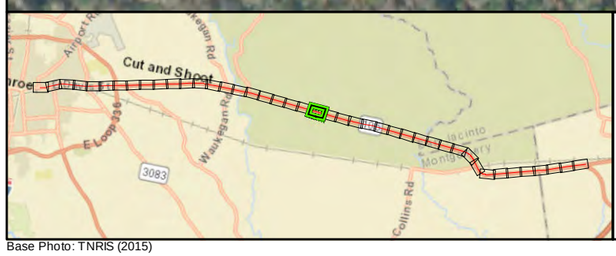
570+00

R49698

R49718

N Walker Rd

S Walker Rd



Legend

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

N Walker Rd

R49786

R36144

Wetland 18/
0.016-acre

SP33F

SP33G

Coburn Rd

565+00

570+00

Highway 105

575+00

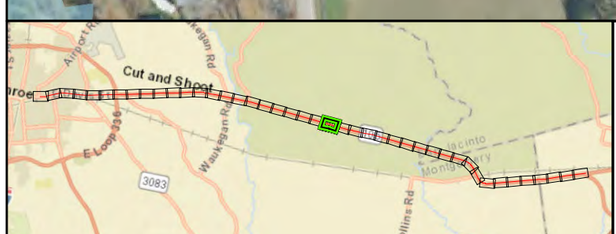
580+00

585+00

590+00

S Walker Rd

R267151



Legend

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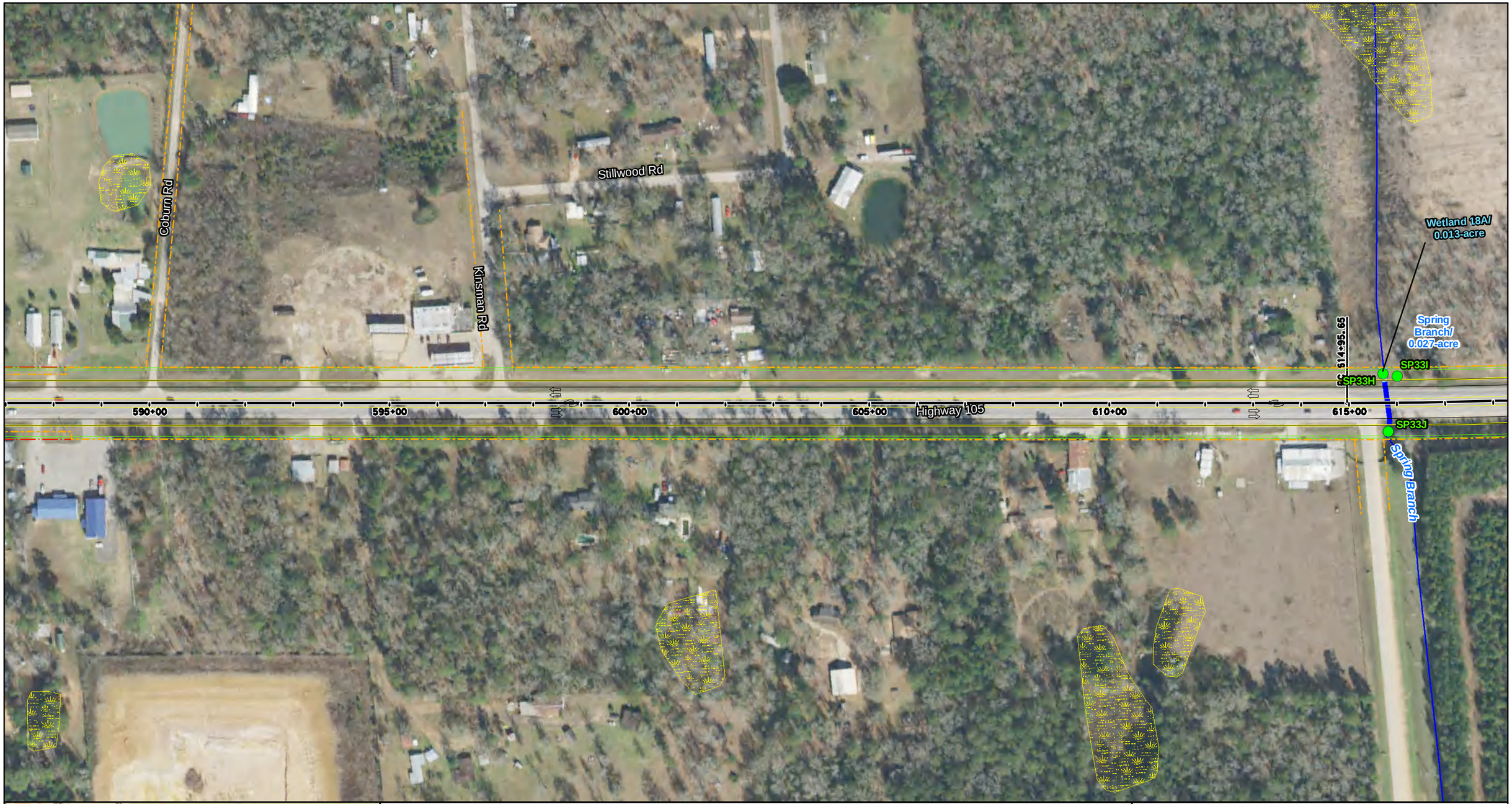

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0 125 250 500 Feet

Base Photo: TNRIS (2015)

Wetland 18A/
0.013-acre

Spring
Branch/
0.027-acre

PT 614+95.65

PT 622+86.28

SP33H

SP33I

SP33J

Spring Branch

Highway 105

N 87° 44' 36.27" E

615+00

620+00

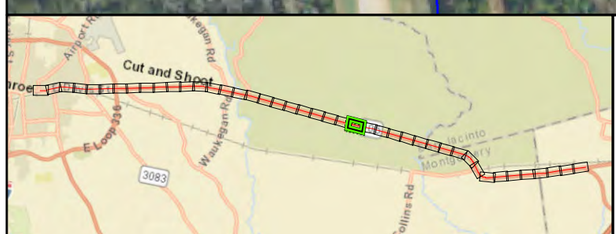
625+00

630+00

635+00

640+00

Pioneer Ln



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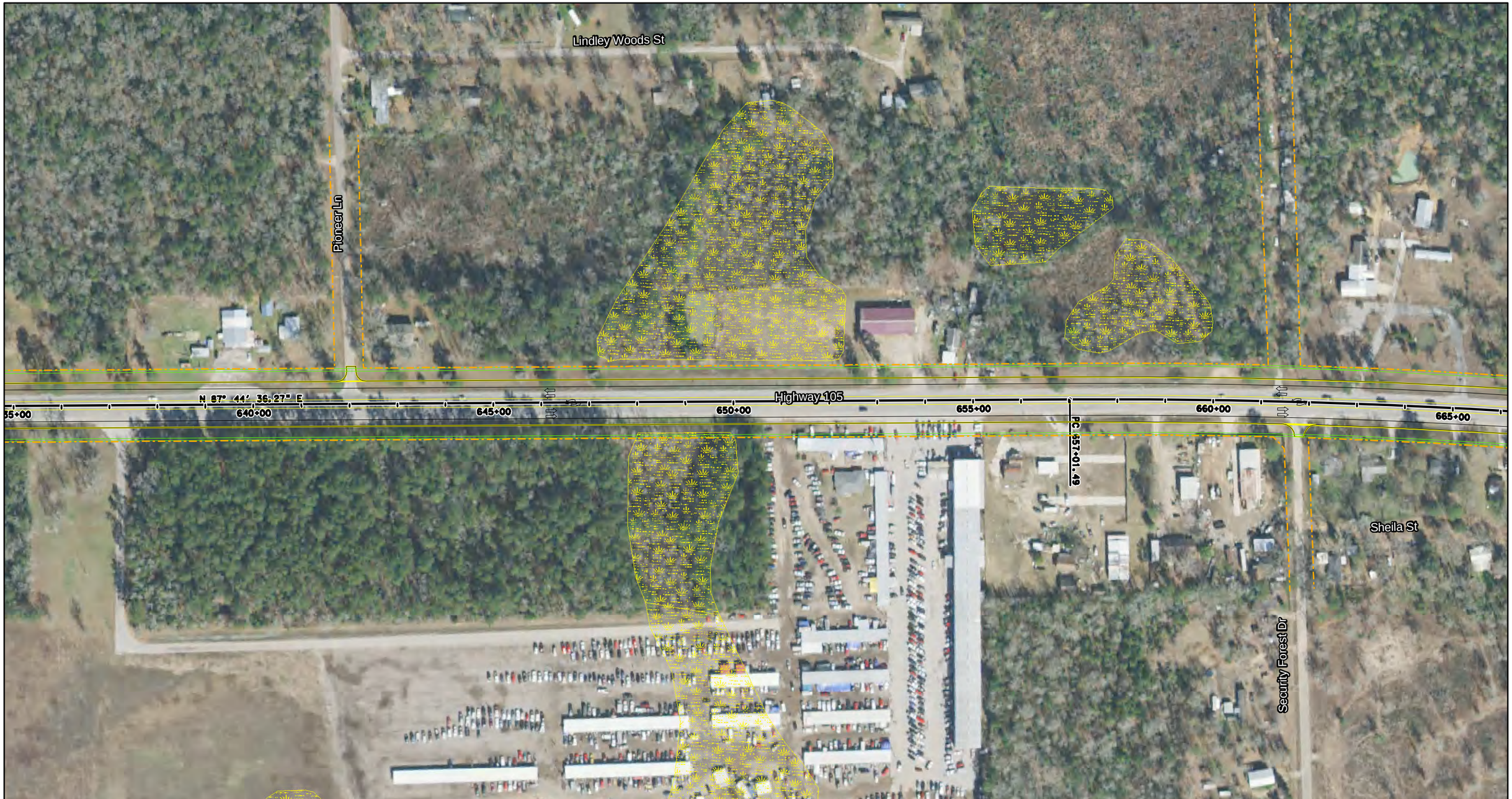

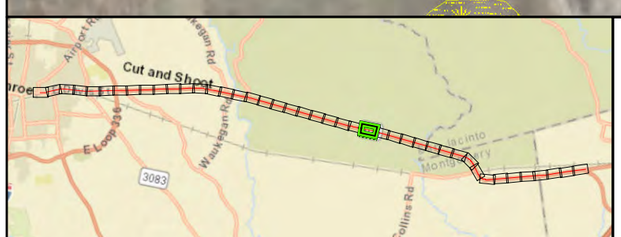

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SH 105
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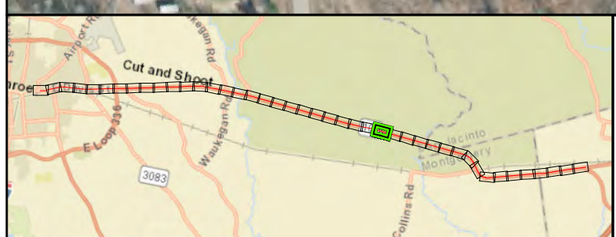
Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)

660+00
665+00
670+00
675+00
680+00
685+00
690+
Highway 105
PT 1066+99.01
Sheila St
Security Forest Dr
Twin Oaks Dr
California Ave
SP33E1
Wetland 19/
0.033-acre
Wetland 20/
0.002-acre
R217302
R55581
Unnamed
Drainage No. 5/
0.027-acre
SP35A1
SP34
SP35



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- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Wetland 20/
0.002-acre

R217302

Lawrence Creek Rd

R55581

Unnamed
Drainage No. 5/
0.027-acre

SP35A1

SP35

SP34

R55679

Nebraska Rd

N Duck Creek Rd

Lawrence
Creek/
0.098-acre

99999

SP35D

SP35C

Highway 105

685+00

690+00

695+00

700+00

705+00

710+00

SP35A

SP35B

SP35A2

California Ave

R55627

S Duck Creek Rd

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

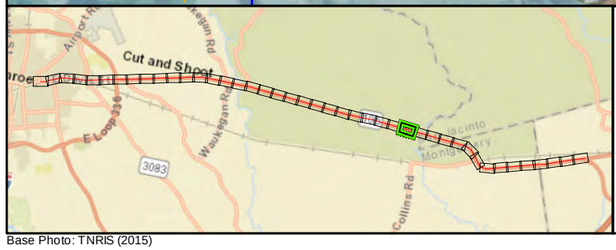
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Data points SP45A3-SP45A5 were taken outside TxDOT ROW and therefore not shown.

Aranda Ln
Wetland 21/ 0.354-acre
Peach Creek/ 0.179-acre
Wetland 23/ 0.965-acre
R50864
SP42B
SP42A
SP45A1
SP45A2
SP45A6
SP39B
R50865
SP39A
SP42
Highway 105
State Hwy 105
Montgomery County
San Jacinto County
SP43
SP40
SP45
SP44
735+00
740+00
745+00
750+00
755+00
760+00
SP39A3
SP41
SP45B
SP39A4
SP39A5
SP45C
SP45A
SP45D
SP45E
Wetland 24/ 0.038-acre
Wetland 22/ 0.020-acre
Wetland 25/ 0.051-acre
Dark Small Rd
R50866
Peach Creek Valley Dr
Lisa Ln
Magnolia Rd

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

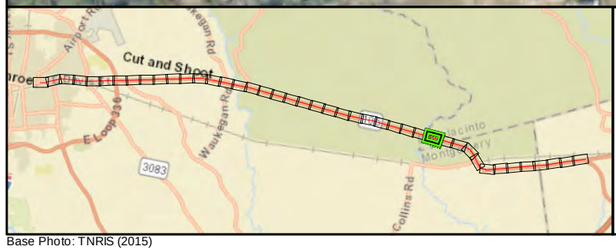
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

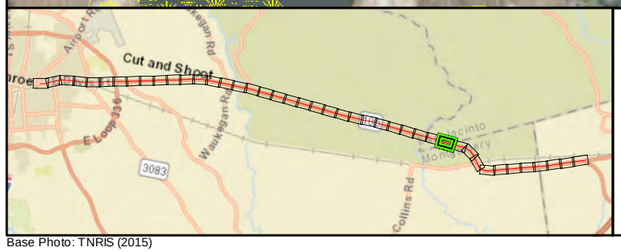
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

N

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

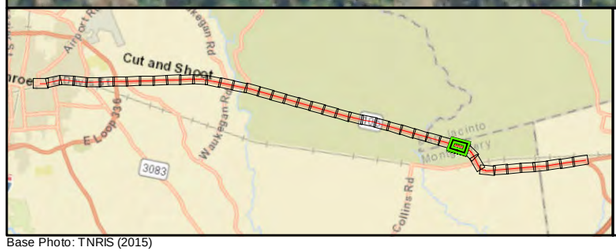
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

R267559
San Jacinto County
Montgomery County
R267558
R267557
R262799
Wetland 29/
0.240-acre
SP46E
SP46F
R267560
Highway 105
805+00
810+00
815+00
820+00
825+00
830+00
SP46H
SP46G
PC 827+33.97
Wetland 30/
0.193-acre
R253395
R267555
R267556
R262853
R253398
R253681



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

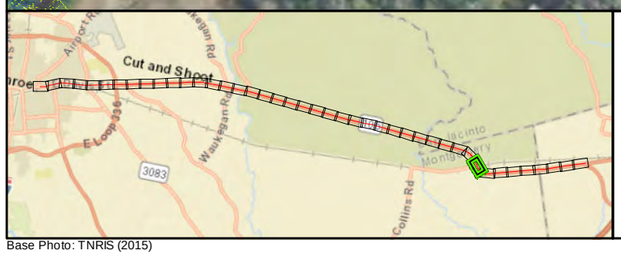
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

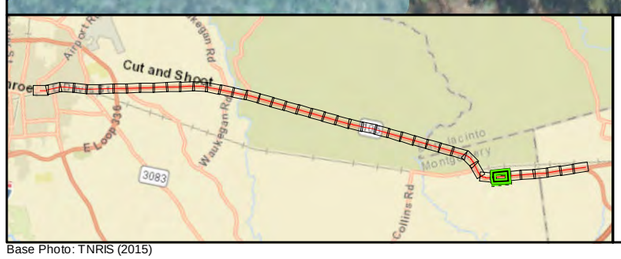
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

R361401

R232136

R59018

Connecting Road

Parkway Rd

Wetland 38/
0.021-acre

Tributary of
Bee Branch/
0.026-acre

Unnamed
Drainage No. 6/
0.015-acre

SP66A

SP62E

SP62F

SP64

SP63

Highway 105

950+00

955+00

960+00

965+00

970+00

975+00

State Hwy 105

SP62D

SP65

SP66

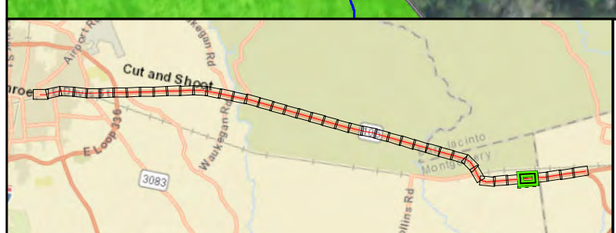
Wetland 39/
0.006-acre

Wetland 40/
0.006-acre

99999

Fostoria Rd

R233088



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

R232136

R59018

Partway Rd

Highway 105

980+00

985+00

995+00

1000+00

State Hwy 105

FC 98+60.15

Montgomery County

Liberty County

PT 993+78.91

Wetland 41/
0.001-acre

Bee Branch/
0.141-acre

SP69

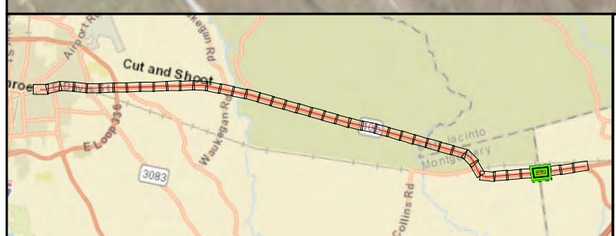
SP70

SP68

SP67

SP70A

Wetland 42/
0.002-acre



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

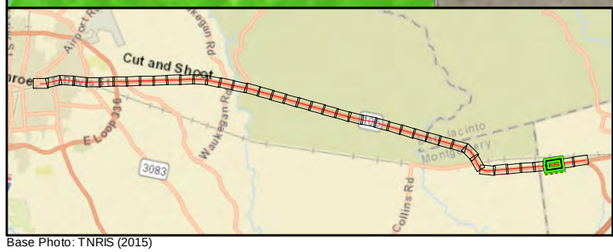
- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)



Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Wetland 44/
0.848-acre

SP74D

SP74E

SP74G

SP74F

SP74A

SP74B

N 67° 35' 17.06" E

1020+00

1025+00

State Hwy 105

SP74C

1035+00

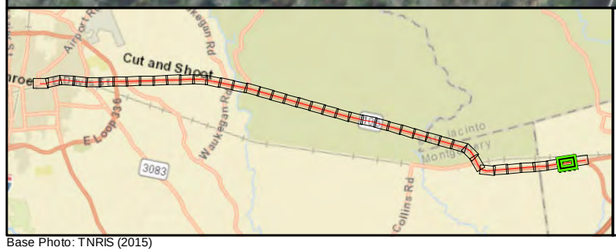
1040+00

1045+00

1050+

Unnamed
Drainage No. 8/
0.027-acre

Wetland 45/
0.049-acre



Legend

Proposed ROW	Pavement Design	Stream	**ROE Tracking**
Existing ROW	County Line	Pond	YES
Center Turn Lane	Sample Point	Jurisdictional Wetland	NO
Sidewalk	100-year Floodplain	Non-Jurisdictional Wetland	
Concrete Barrier	NWI		

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

Legend

- Proposed ROW
- Existing ROW
- Center Turn Lane
- Sidewalk
- Concrete Barrier
- Pavement Design
- County Line
- Sample Point
- 100-year Floodplain
- NWI
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland

ROE Tracking

- YES
- NO

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Exhibit 4: Proposed Project Schematic, NWI, Floodplains, and Wetland Sample Point Map

0 125 250 500 Feet

Base Photo: TNRIS (2015)

EXHIBIT 5
GeoSearch (Hazardous Materials) Radius, Water Well, and Oil and Gas Reports (Excerpts)

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Radius Report

Satellite view

Target Property:

SH 105: From 10th Street in Conroe to Business 105
Conroe, Montgomery County, Texas

Prepared For:

Jacobs-Fort Worth

Order #: 72590
Job #: 155842
Project #: WHXK2805
Date: 02/27/2018

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Target Property Summary 1

Database Summary 2

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Elevation Summary 29

Unlocated Sites Summary 485

Environmental Records Definitions 487

Unlocatable Report . . . . . See Attachment

Zip Report . . . . . See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

Coordinates
Area centroid (-95.296311, 30.3272314)
190 feet above sea level

USGS Quadrangle
Conroe, TX
Cut And Shoot, TX
Fostoria, TX

Geographic Coverage Information

County/Parish: Montgomery (TX) , San Jacinto (TX) , Liberty (TX)
ZipCode(s):
Conroe TX: 77301, 77303, 77306
Cleveland TX: 77328

Radon
* Target property is located in Radon Zone 3.
Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSTX	1	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	1	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	2	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	7	1	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	1	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	2	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	1	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	1	0	1.0000

SUB-TOTAL		16	1	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	2	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	1	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	1	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSTX	24	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	4	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	1	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	1	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	1	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	1	0	TP/AP
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	1	0	1.0000

SUB-TOTAL		37	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
DRY CLEANER REGISTRATION DATABASE	DCR	1	0	0.2500
PETROLEUM STORAGE TANKS	PST	37	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	2	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	14	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	5	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	3	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	7	0	1.0000
STATE SUPERFUND SITES	SF	0	0	1.0000

SUB-TOTAL		69	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
GROUNDWATER CONTAMINATION CASES	GWCC	6	0	TP/AP
HISTORIC GROUNDWATER CONTAMINATION CASES	HISTGWCC	0	0	TP/AP
MUNICIPAL SETTING DESIGNATIONS	MSD	0	0	TP/AP
NOTICE OF VIOLATIONS	NOV	10	0	TP/AP
SPILLS LISTING	SPILLS	1	0	TP/AP
TCEQ LIENS	LIENS	1	0	TP/AP
TIER I I CHEMICAL REPORTING PROGRAM FACILITIES	TIERII	5	0	TP/AP
INDUSTRIAL AND HAZARDOUS WASTE SITES	IHW	14	1	0.2500
PERMITTED INDUSTRIAL HAZARDOUS WASTE SITES	PIHW	0	0	0.2500
AFFECTED PROPERTY ASSESSMENT REPORTS	APAR	3	0	0.5000
DRY CLEANER REMEDIATION PROGRAM SITES	DCRPS	0	0	0.5000
INNOCENT OWNER / OPERATOR DATABASE	IOP	0	0	0.5000
RECYCLING FACILITIES	WMRF	1	0	0.5000

SUB-TOTAL		41	1	

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	

TOTAL		163	2	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	2	NS	NS	NS	NS	NS	2
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	1	NS	NS	NS	NS	NS	1
EC	**0.0200**	**1**	**NS**	**NS**	**NS**	**NS**	**NS**	**1**
ERNSTX	**0.0200**	**1**	**NS**	**NS**	**NS**	**NS**	**NS**	**1**
FRSTX	0.0200	24	NS	NS	NS	NS	NS	24
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	4	NS	NS	NS	NS	NS	4
ICISNPDES	0.0200	1	NS	NS	NS	NS	NS	1
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	1	NS	NS	NS	NS	NS	1
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	1	NS	NS	NS	NS	NS	1
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SFLIENS	0.0200	1	NS	NS	NS	NS	NS	1
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	1	NS	NS	NS	NS	NS	1
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR06	**0.1250**	**0**	**2**	**NS**	**NS**	**NS**	**NS**	**2**
RCRANGR06	**0.1250**	**3**	**4**	**NS**	**NS**	**NS**	**NS**	**7**
HISTPST	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**1**	**0**	**0**	**NS**	**NS**	**1**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMS	**0.5000**	**1**	**0**	**0**	**1**	**NS**	**NS**	**2**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NPL	**1.0000**	**1**	**0**	**0**	**0**	**0**	**NS**	**1**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**1**	**NS**	**1**
RODS	1.0000	1	0	0	0	0	NS	1
SUB-TOTAL		44	7	0	1	1	0	53

Database Radius Summary

STATE (TX) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
GWCC	0.0200	6	NS	NS	NS	NS	NS	6
HISTGWCC	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	1	NS	NS	NS	NS	NS	1
MSD	0.0200	0	NS	NS	NS	NS	NS	0
NOV	0.0200	10	NS	NS	NS	NS	NS	10
SIEC01	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SPILLS	0.0200	1	NS	NS	NS	NS	NS	1
TIERII	0.0200	5	NS	NS	NS	NS	NS	5
DCR	**0.2500**	**1**	**0**	**0**	**NS**	**NS**	**NS**	**1**
IHW	0.2500	4	6	4	NS	NS	NS	14
PIHW	0.2500	0	0	0	NS	NS	NS	0
PST	**0.2500**	**15**	**16**	**6**	**NS**	**NS**	**NS**	**37**
APAR	0.5000	0	1	1	1	NS	NS	3
BSA	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CALF	**0.5000**	**2**	**0**	**0**	**0**	**NS**	**NS**	**2**
DCRPS	0.5000	0	0	0	0	NS	NS	0
IOP	0.5000	0	0	0	0	NS	NS	0
LPST	**0.5000**	**5**	**3**	**5**	**1**	**NS**	**NS**	**14**
MSWLF	**0.5000**	**0**	**5**	**0**	**0**	**NS**	**NS**	**5**
RRCVCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RWS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
VCP	**0.5000**	**0**	**1**	**0**	**2**	**NS**	**NS**	**3**
WMRF	0.5000	0	1	0	0	NS	NS	1
IHWCA	**1.0000**	**0**	**3**	**2**	**0**	**2**	**NS**	**7**
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		50	36	18	4	2	0	110

Database Radius Summary

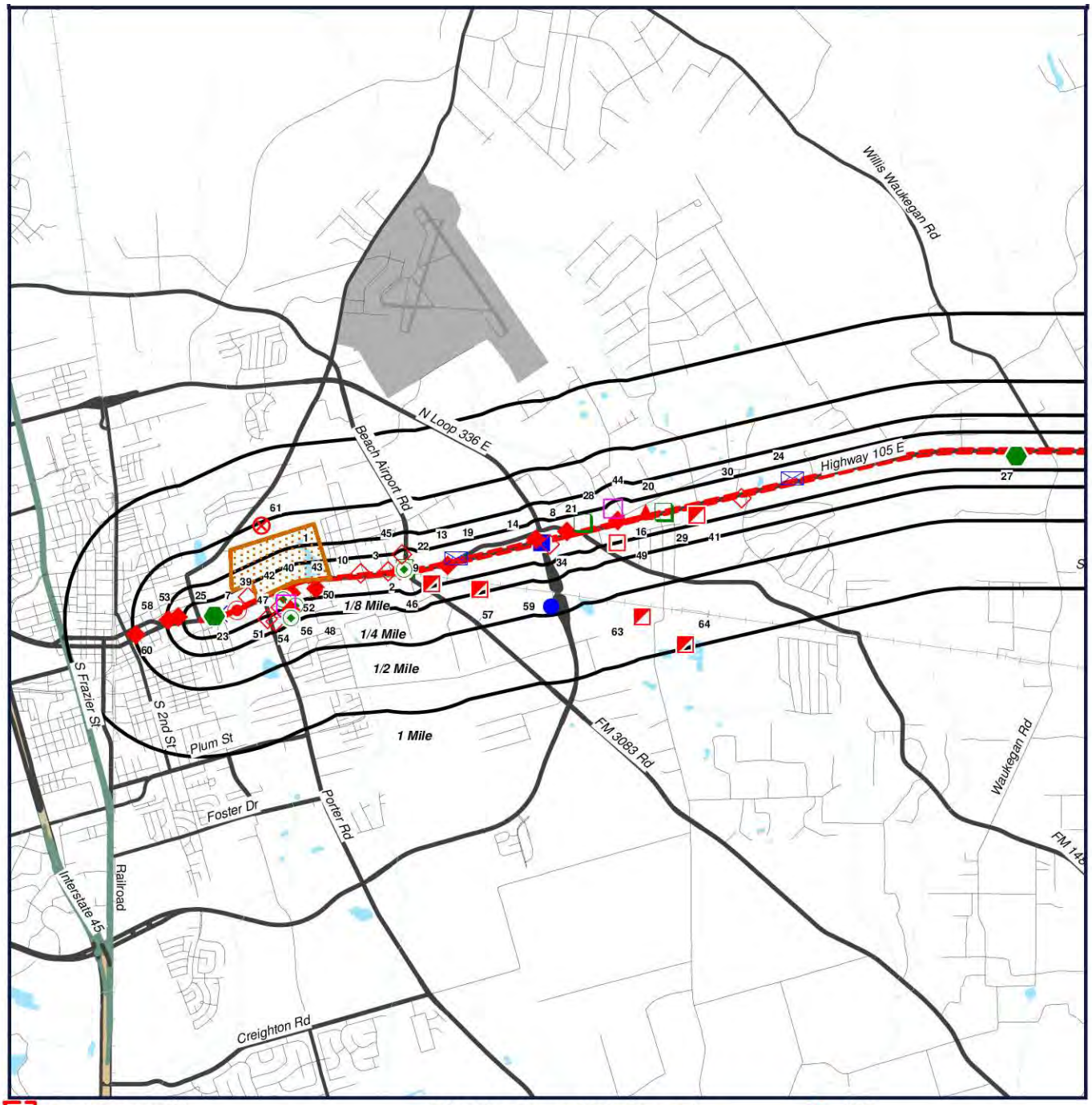
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR06	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		94	43	18	5	3	0	163

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS

GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

DCR
TIERII
PCSR06
RCRANGR06
NOV

SPILLS
IHW
ERNSTX
ICIS
MSWLF
RCRAGR06
IHWCA
SEMS

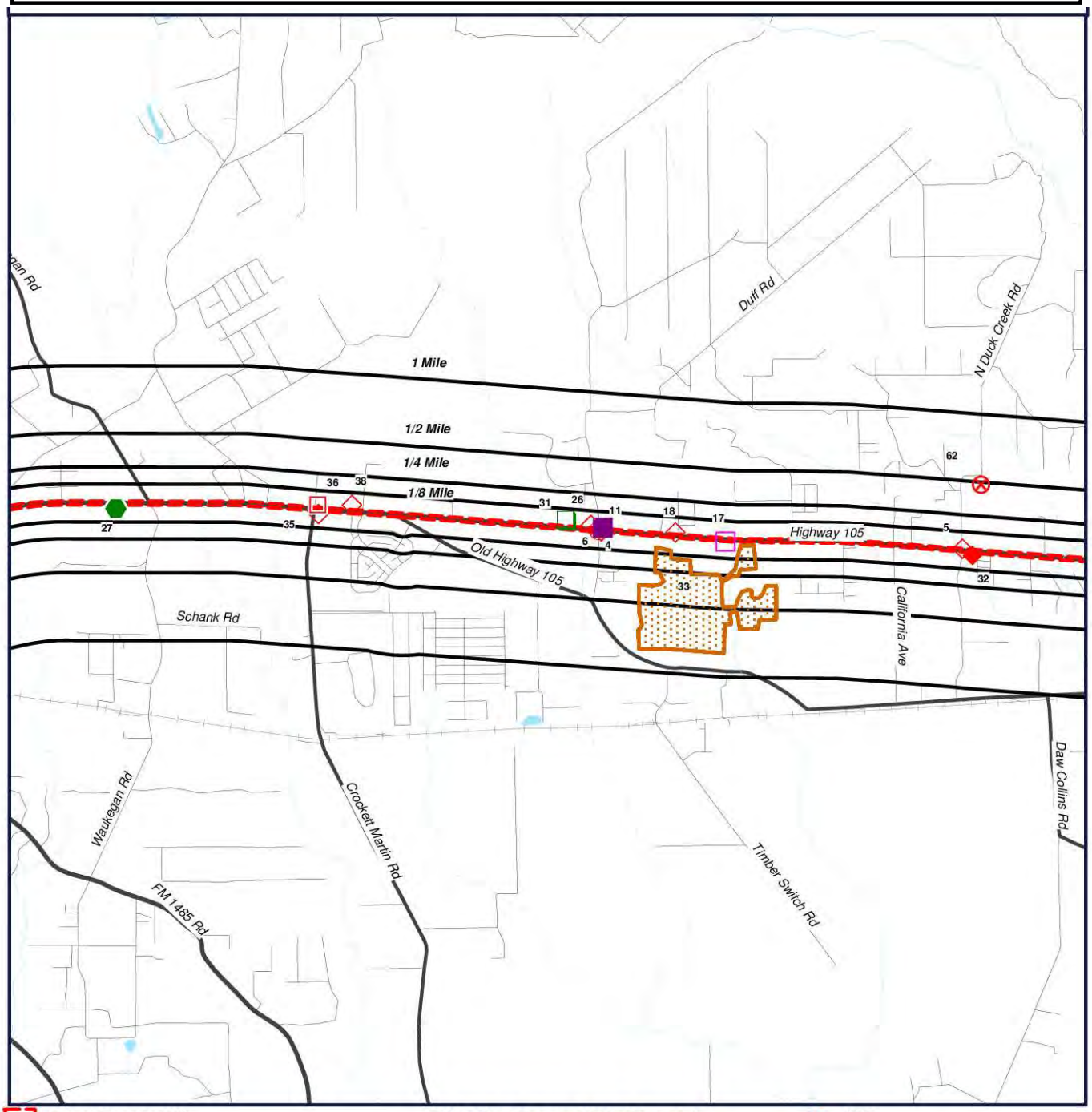
VCP
RCRASUBC
CALF
TIERII
FRSTX

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

Radius2KB Map



Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS
GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

DCR
TIERII
PCSR06
RCRANGR06
NOV
SPILLS
IHW
ERNSTX
ICIS
MSWLF
RCRAGR06
IHWCA
SEMS
VCP
RCRASUBC
CALF
TIERII
FRSTX

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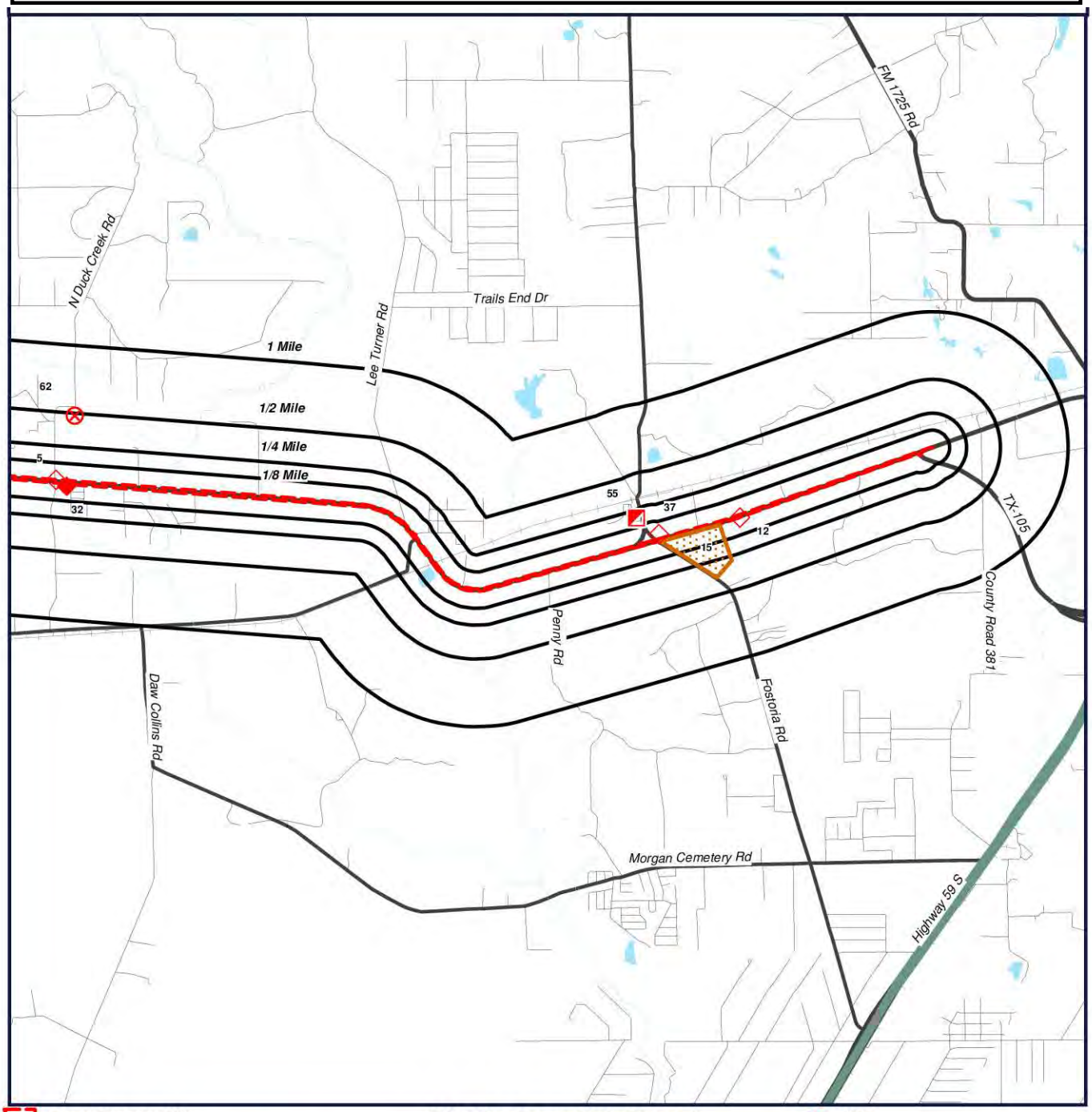
0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

Radius2KC Map



Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS
GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

DCR
TIERII
PCSR06
RCRANGR06
NOV
SPILLS
IHW
ERNSTX
ICIS
MSWLF
RCRAGR06
IHWCA
SEMS
VCP
RCRASUBC
CALF
TIERII
FRSTX

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0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

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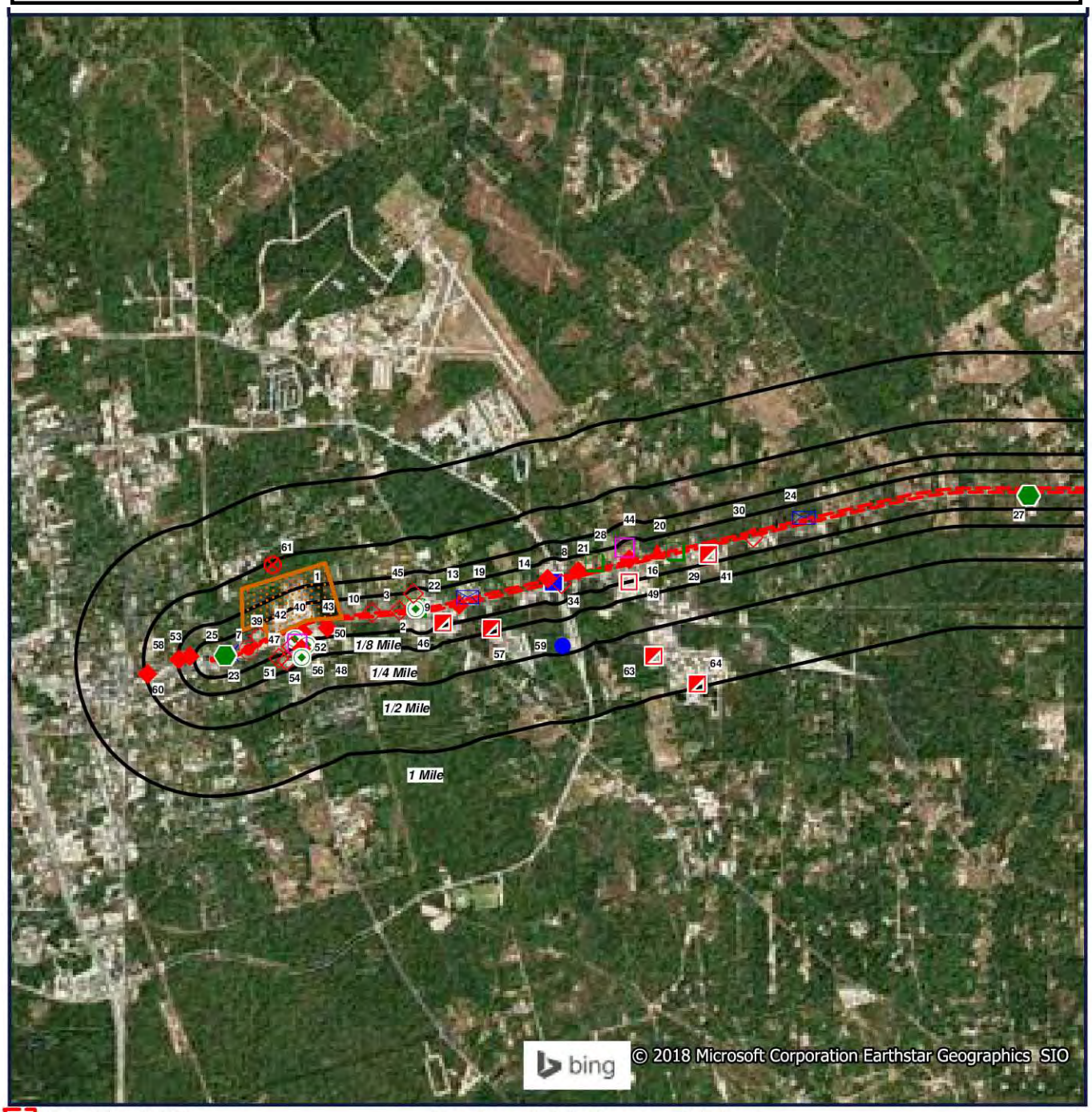
Ortho Map



Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS

GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

TIERII

SPILLS
IHW
ERNSTX
ICIS

PCSR06
RCRANGR06
NOV

Quadrangle(s): Conroe, Cut And Shoot, Fostoria
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

MSWLF
RCRAGR06
IHWCA
SEMS

CALF
TIERII
FRSTX
DCR

N
W E
S

VCP
RCRASUBC

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

OrthoB Map

Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS

GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

TIERII

SPILLS
IHW
ERNSTX
ICIS

Quadrangle(s): Conroe, Cut And Shoot, Fostoria
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

PCSR06
RCRANGR06
NOV

CALF
TIERII
FRSTX
DCR

MSWLF
RCRAGR06
IHWCA
SEMS

N
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S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

VCP
RCRASUBC

Click here to access Satellite view

OrthoC Map

Target Property (TP)
TRI
PST
IHW
RODS
AIRSAFS
ICIS
EC
LIENS

GWCC
SFLIENS
FRSTX
RCRANGR06
SEMS
NPL
LPST
PST

TIERII

SPILLS
IHW
ERNSTX
ICIS

Quadrangle(s): Conroe, Cut And Shoot, Fostoria
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

PCSR06
RCRANGR06
NOV

CALF
TIERII
FRSTX
DCR

MSWLF
RCRAGR06
IHWCA
SEMS

N
W E
S

VCP
RCRASUBC

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

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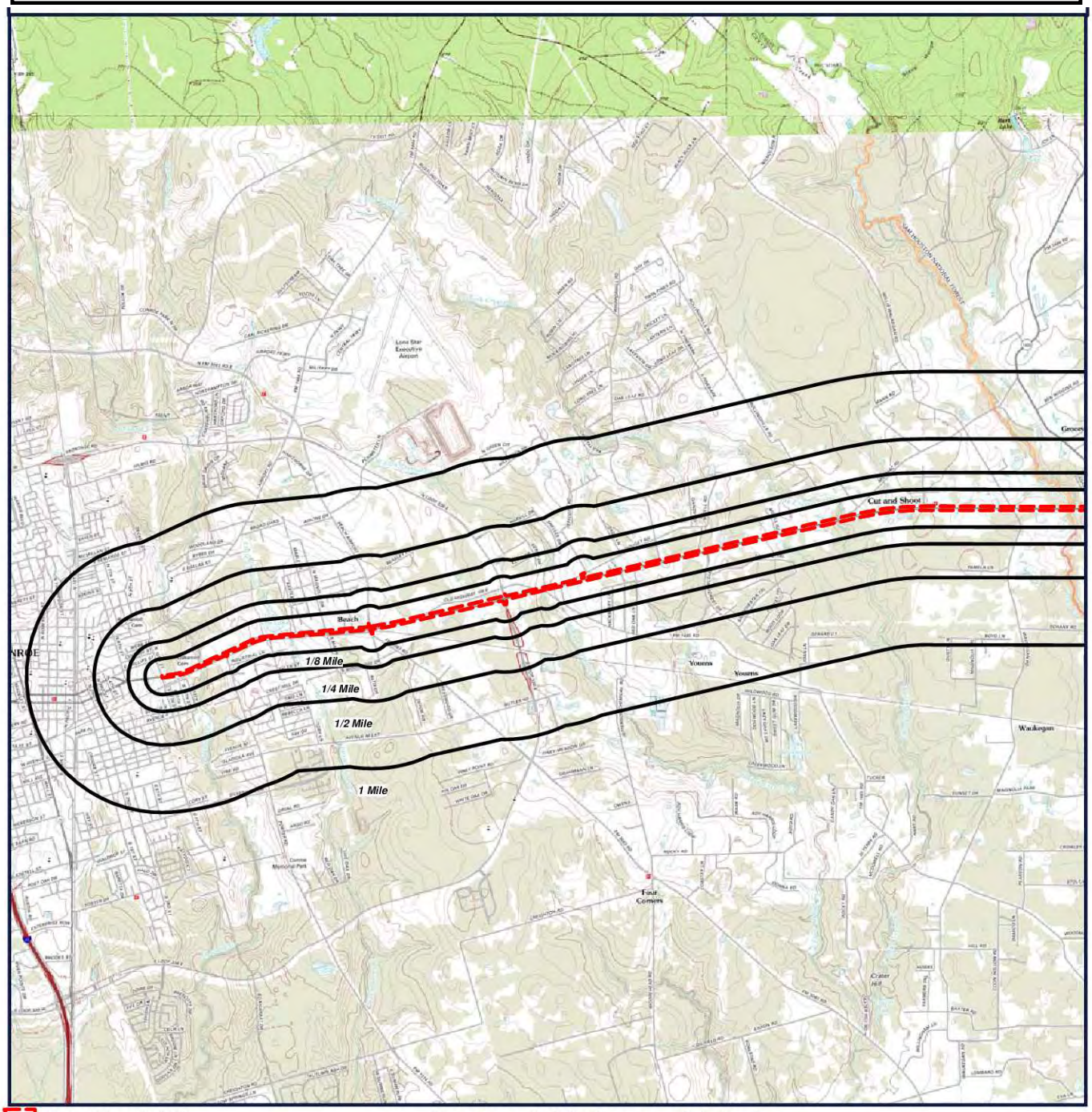
Topographic Map



Target Property (TP)

Quadrangle(s): Conroe, Cut And Shoot, Fostoria
Source: USGS, 02/01/2013
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

N
W E
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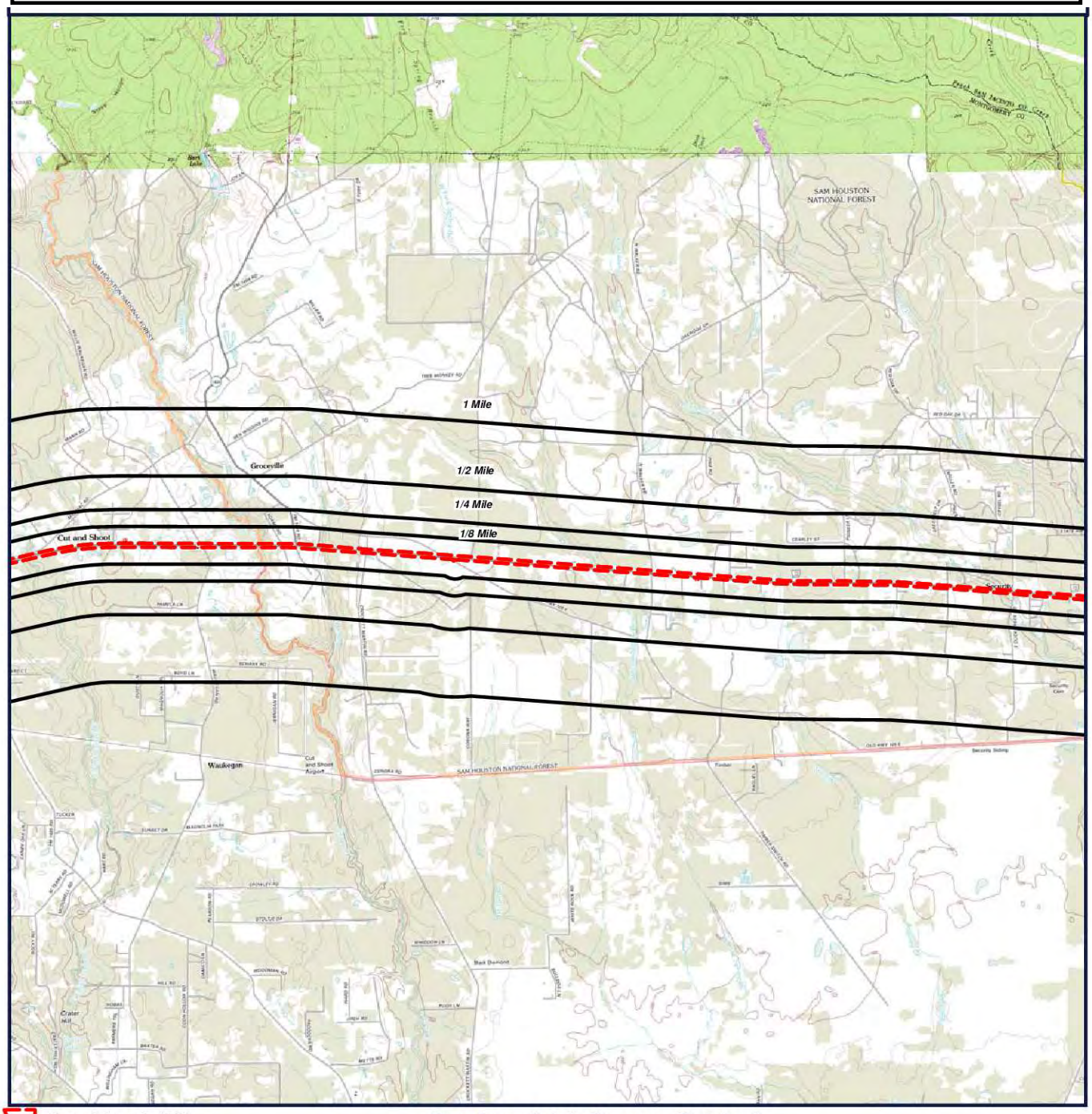
0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

TopographicB Map



Target Property (TP)

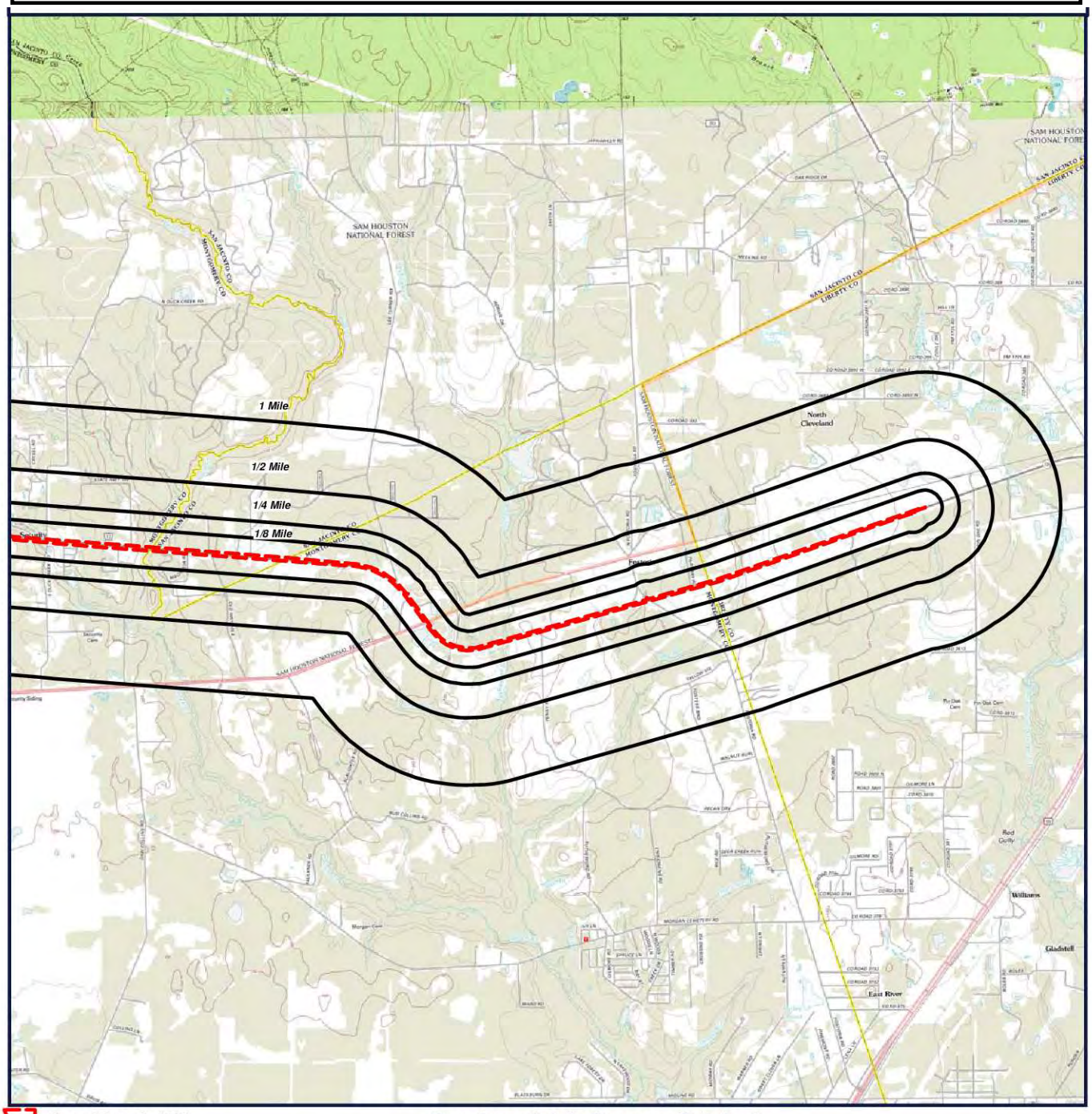
Quadrangle(s): Conroe, Cut And Shoot, Fostoria
Source: USGS, 02/01/2013
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

TopographicC Map



Target Property (TP)

Quadrangle(s): Conroe, Cut And Shoot, Fostoria
Source: USGS, 02/01/2013
SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

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Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	AIRSAFS	923123	Higher (203 ft.)	TP	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	34
1	***EC***	***TXD008091951***	***Higher (203 ft.)***	***TP***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***38***
1	FRSTX	110005037708	Higher (203 ft.)	TP	CONROE CREOSOTING CO	1776 EAST DAVIS STREET, CONROE, TX 77301	39
1	FRSTX	110064215745	Higher (203 ft.)	TP	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	40
1	GWCC	1767580247	Higher (203 ft.)	TP	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, TX 77301	41
1	GWCC	SUP091	Higher (203 ft.)	TP	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, TX	42
1	GWCC	TXD008091951	Higher (203 ft.)	TP	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, CONROE, TX 77301	43
1	ICIS	110005037708	Higher (203 ft.)	TP	CONROE CREOSOTING CO	1776 EAST DAVIS STREET, CONROE, TX 77301	44
1	ICIS	110064215745	Higher (203 ft.)	TP	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	45
1	IHW	31799	Higher (203 ft.)	TP	CONROE CREOSOTING	1776 E DAVIS ST, CONROE, TX 77301	46
1	LIENS	SUP091	Higher (203 ft.)	TP	CONROE CREOSOTE	HIGHWAY 105 E BOX 9, CONROE, TX	49
1	***NPL***	***TXD008091951***	***Higher (203 ft.)***	***TP***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***50***
1	***PST***	***54885***	***Higher (203 ft.)***	***TP***	***CONROE CREOSOTING***	***HWY 105, CONROE, TX 77305***	***58***
1	***RCRANGR06***	***TXD008091951***	***Higher (203 ft.)***	***TP***	***CONROE CREOSOTING CO***	***1776 E DAVIS ST, CONROE, TX 77301***	***61***
1	RODS	TXD008091951	Higher (203 ft.)	TP	CONROE CREOSOTING CO.	HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301	64
1	***SEMS***	***TXD008091951***	***Higher (203 ft.)***	***TP***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***65***
1	SFLIENS	TXD008091951	Higher (203 ft.)	TP	CONROE CREOSOTING CO.	HIGHWAY 105 EAST, BOX 9, CO 77301	73
1	TRI	77305CNRCRHWY10	Higher (203 ft.)	TP	CONROE CREOSOTING CO	HWY 105 EAST, CONROE, TX 77301	74
2	***LPST***	***108132***	***Higher (214 ft.)***	***TP***	***FORMER NAPA FACILITY***	***2416 E DAVIS ST, CONROE, TX***	***75***
2	***PST***	***66472***	***Higher (214 ft.)***	***TP***	***FORMER NAPA FACILITY***	***2416 E DAVIS ST, CONROE, TX 77301***	***78***
3	***PST***	***18395***	***Higher (213 ft.)***	***TP***	***SHOP N GO 2***	***2330 E DAVIS ST, CONROE, TX 77301***	***81***
4	FRSTX	110034269930	Lower (186 ft.)	TP	ZP MART	18374 EAST HIGHWAY 105, CLEVELAND, TX 77328	86
4	NOV	RN102037983	Lower (186 ft.)	TP	ZP MART 1	18374 E HIGHWAY 105, CLEVELAND, TX 77328	87
4	NOV	RN102038924	Lower (186 ft.)	TP	ZP MART	18374 E HIGHWAY 105, CLEVELAND, TX 77328	89

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
4	***PST***	***38829***	***Lower (186 ft.)***	***TP***	***EAGLE MART***	***18374 HIGHWAY 105, CLEVELAND, TX 77328***	***92***
5	***PST***	***9521***	***Lower (162 ft.)***	***TP***	***LESTER W DUVAL***	***HWY 105 & DUCK CREEK R, CLEVELAND, TX 77327***	***100***
6	***CALF***	***461***	***Lower (186 ft.)***	***TP***	***SOLOMAN DISPOSAL SITE***	***HWY 105 & WALKER RD, TX***	***103***
7	***CALF***	***459***	***Lower (183 ft.)***	***TP***	***CONROE TRUCK & AUTO SITE***	***ADJ. TO W BANK OF STEWART CREEK & HWY 105 IN CONROE, TX***	***104***
8	TIERII	4X7SYE01TVRY	Higher (215 ft.)	TP	TXDOT-HOUSTON-MONTGOMERY, E LOOP 336 AT SH 105	E. LOOP 336 AT SH 105, CONROE, TX 77301	105
9	FRSTX	110000824555	Higher (213 ft.)	TP	ICO INC	FM 3083 AT HIGHWAY 105, CONROE, TX 77305	107
10	***PST***	***2290***	***Higher (203 ft.)***	***0.002 mi. N (11 ft.)***	***CON-TEX WATER WELL***	***2112 E DAVIS ST, CONROE, TX 77301***	***108***
11	***DCR***	***RN104994744***	***Lower (186 ft.)***	***0.004 mi. N (21 ft.)***	***RIGHTEOUS CLEANERS***	***18363 HIGHWAY 105, CLEVELAND, TX 77328***	***111***
11	FRSTX	110034232159	Lower (186 ft.)	0.004 mi. N (21 ft.)	RIGHTEOUS CLEANERS	18363 HIGHWAY 105, CLEVELAND, TX 77328	112
12	FRSTX	110034462855	Lower (156 ft.)	0.005 mi. SSE (26 ft.)	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	113
12	FRSTX	110037924379	Lower (156 ft.)	0.005 mi. SSE (26 ft.)	CLEVELAND CONCRETE BATCH PLANT	27500 HIGHWAY 105 WEST, CLEVELAND, TX 77328	114
12	NOV	RN105248314	Lower (156 ft.)	0.005 mi. SSE (26 ft.)	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	115
12	***PST***	***78448***	***Lower (156 ft.)***	***0.005 mi. SSE (26 ft.)***	***CLEVELAND PLANT 1177***	***27500 HWY 105 W, CLEVELAND, TX 77328***	***116***
12	TIERII	4YSG3702PEY5	Lower (156 ft.)	0.005 mi. SSE (26 ft.)	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	118
13	***LPST***	***116215***	***Higher (208 ft.)***	***0.006 mi. SSE (32 ft.)***	***FORMER COORS OF THE WOODS***	***2811 E DAVIS ST, CONROE, TX***	***120***
13	***PST***	***23706***	***Higher (208 ft.)***	***0.006 mi. SSE (32 ft.)***	***COORS OF THE WOODS***	***2811 E DAVIS ST, CONROE, TX 77301***	***124***
14	FRSTX	110033527770	Higher (215 ft.)	0.006 mi. NNW (32 ft.)	ANNIES COUNTRY STORE 2	3900 E DAVIS ST, CONROE, TX 77301	128
14	GWCC	116631	Higher (215 ft.)	0.006 mi. NNW (32 ft.)	SADLER DEVELOPMENT CORP	3900 E DAVIS, CONROE, CONROE, TX 77301	129
14	***LPST***	***116631***	***Higher (215 ft.)***	***0.006 mi. NNW (32 ft.)***	***FORMER ANNIES COUNTRY STORE 2***	***3900 E DAVIS ST, CONROE, TX***	***130***
14	NOV	RN102494572	Higher (215 ft.)	0.006 mi. NNW (32 ft.)	ANNIES COUNTRY STORE 2	3900 E DAVIS ST, CONROE, TX 77301	135

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
14	***PST***	***61103***	***Higher (215 ft.)***	***0.006 mi. NNW (32 ft.)***	***SPEEDY STOP 88***	***3900 E DAVIS ST, CONROE, TX 77301***	***136***
15	AIRSAFS	814539	Lower (158 ft.)	0.006 mi. SSE (32 ft.)	TENNESSEE GAS PIPELINE COMPANY-STAT 25	25726 HIGHWAY 105, CLEVLAND, TX 77327	143
15	FRSTX	110006124728	Lower (158 ft.)	0.006 mi. SSE (32 ft.)	TENNESSEE GAS PIPELINE STA 25	25726 HWY 105 W, CLEVELAND, TX 77328	153
15	IHW	35827	Lower (158 ft.)	0.006 mi. SSE (32 ft.)	TENNESEE GAS PIPELINE STATION 25	25726 HIGHWAY 105, CLEVELAND, TX 77328	154
15	PCSR06	TX0112909	Lower (158 ft.)	0.006 mi. SSE (32 ft.)	TENNESSEE GAS PPLN	25726 HIGHWAY 105MONTGOMERY, CLEVELAND, TX	156
15	***PST***	***36453***	***Lower (158 ft.)***	***0.006 mi. SSE (32 ft.)***	***TGP COMPRESSOR STATION 25 CLEVELAND***	***25726 HIGHWAY 105, CLEVELAND, TX 77328***	***157***
15	***RCRANGR06***	***TXD020805396***	***Lower (158 ft.)***	***0.006 mi. SSE (32 ft.)***	***TENNESSEE GAS PIPELINE STA 25***	***25726 HWY 105 W, CLEVELAND, TX 77327***	***160***
15	TIERII	2TZSLC04RGYE	Lower (158 ft.)	0.006 mi. SSE (32 ft.)	TENNESSEE GAS PIPELINE - STATION 25	25726 HIGHWAY 105, CLEVELAND, TX 77328	162
16	FRSTX	110034290611	Higher (217 ft.)	0.007 mi. NNW (37 ft.)	CRYSTAL CREEK MKT	11925 HIGHWAY 105 E, CONROE, TX 77306	168
16	***LPST***	***109825***	***Higher (217 ft.)***	***0.007 mi. NNW (37 ft.)***	***CRYSTRAL CREEK SHOPPING CENTER***	***11925 HIGHWAY 105 E, CONROE, TX***	***169***
16	NOV	RN102959798	Higher (217 ft.)	0.007 mi. NNW (37 ft.)	CRYSTAL CREEK MKT	11925 HIGHWAY 105 E, CONROE, TX 77306	181
16	***PST***	***30145***	***Higher (217 ft.)***	***0.007 mi. NNW (37 ft.)***	***CRYSTAL CREEK MARKET***	***11925 HIGHWAY 105 E, CONROE, TX 77306***	***183***
16	TIERII	50C1ES0360KM	Higher (217 ft.)	0.007 mi. NNW (37 ft.)	AMERIGAS PROPANE	11997 HWY 105, CONROE, TX 77306	198
16	TIERII	5NF2NE02ZSEV	Higher (217 ft.)	0.007 mi. NNW (37 ft.)	AMERIGAS PROPANE	11997 HIGHWAY 105 E, CONROE, TX 77306	199
17	FRSTX	110006134094	Equal (190 ft.)	0.008 mi. S (42 ft.)	MIKE NICHOLS PAINT & BODY SHOP	19236 HWY 105, CLEVELAND, TX 77328	200
17	IHW	85524	Equal (190 ft.)	0.008 mi. S (42 ft.)	MIKE NICHOLS PAINT & BODY SHOP	19236 HIGHWAY 105, CLEVELAND, TX 77328	201
17	***RCRANGR06***	***TXR000026377***	***Equal (190 ft.)***	***0.008 mi. S (42 ft.)***	***MIKE NICHOLS PAINT & BODY SHOP INC***	***19236 HWY 105, CLEVELAND, TX 77327***	***202***
18	FRSTX	110033707273	Higher (196 ft.)	0.008 mi. N (42 ft.)	KOUNTRY MART	18919 HIGHWAY 105, CLEVELAND, TX 77328	204
18	NOV	RN102434842	Higher (196 ft.)	0.008 mi. N (42 ft.)	KOUNTRY MART	18919 HIGHWAY 105, CLEVELAND, TX 77328	205

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
18	***PST***	***67946***	***Higher (196 ft.)***	***0.008 mi. N (42 ft.)***	***KOUNTRY MART***	***18919 HIGHWAY 105, CLEVELAND, TX 77328***	***206***
19	FRSTX	110034684278	Higher (210 ft.)	0.008 mi. NNW (42 ft.)	CONROE AUTO RECYCLING AUTO & TRUCK SALVAGE	2814 E DAVIS ST, CONROE, TX 77301	215
19	NOV	RN103206025	Higher (210 ft.)	0.008 mi. NNW (42 ft.)	CONROE AUTO RECYCLING AUTO & TRUCK SALVAGE	2814 E DAVIS ST, CONROE, TX 77301	216
19	NOV	RN105511307	Higher (210 ft.)	0.008 mi. NNW (42 ft.)	CAR DAN AUTO AND SALVAGE	2818 E DAVIS ST, CONROE, TX 77301	217
20	SPILLS	83643	Higher (210 ft.)	0.009 mi. NNW (48 ft.)		12091 HWY 105 EAST, CONROE, TX 77303	218
21	FRSTX	110034834838	Higher (205 ft.)	0.011 mi. NNW (58 ft.)	SUPER STOP 4	11487 HIGHWAY 105 E, CONROE, TX 77301	219
21	GWCC	093533	Higher (205 ft.)	0.011 mi. NNW (58 ft.)	EZ MART 5	11487 HWY 105, CONROE, TX	220
21	GWCC	93533	Higher (205 ft.)	0.011 mi. NNW (58 ft.)	EZ MART 5	11487 HIGHWAY 105 E, CONROE, TX	221
21	***LPST***	***093533***	***Higher (205 ft.)***	***0.011 mi. NNW (58 ft.)***	***EZ MART 5***	***11487 HIGHWAY 105 E, CONROE, TX***	***222***
21	***PST***	***30063***	***Higher (205 ft.)***	***0.011 mi. NNW (58 ft.)***	***E-Z MART 5***	***11487 HIGHWAY 105 E, CONROE, TX 77301***	***223***
22	FRSTX	110008145471	Higher (213 ft.)	0.011 mi. N (58 ft.)	DERRICK SERVICE INTERNATIONAL INC	FM 3083 & HIGHWAY 105, CONROE, TX 77301	233
22	IHW	36558	Higher (213 ft.)	0.011 mi. N (58 ft.)	DERRICK SERVICE INTERNATIONAL	105 FM 3083 RD, CONROE, TX 77301	234
23	***ERNSTX***	***434936***	***Lower (181 ft.)***	***0.012 mi. NNW (63 ft.)***		***1304 EAST DAVIS ST, CONROE, TX***	***235***
24	NOV	RN105855167	Higher (206 ft.)	0.013 mi. NNW (69 ft.)	SPEED WAY AUTO MOTOR	13085 HIGHWAY 105 E, CONROE, TX 77306	236
25	DOCKETS	06-1996-0272	Lower (181 ft.)	0.014 mi. NNW (74 ft.)	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	237
25	FRSTX	110010622861	Lower (181 ft.)	0.014 mi. NNW (74 ft.)	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	238
25	ICIS	110010622861	Lower (181 ft.)	0.014 mi. NNW (74 ft.)	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	239
26	FRSTX	110034226095	Lower (185 ft.)	0.014 mi. N (74 ft.)	MIDWAY PETROLEUM	18321 HIGHWAY 105, CLEVELAND, TX 77328	240
26	NOV	RN101245520	Lower (185 ft.)	0.014 mi. N (74 ft.)	MIDWAY PETROLEUM	18321 HIGHWAY 105, CLEVELAND, TX 77328	241

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
26	***PST***	***68393***	***Lower (185 ft.)***	***0.014 mi. N (74 ft.)***	***MIDWAY 1***	***18321 HIGHWAY 105, CLEVELAND, TX 77328***	***243***
27	FRSTX	110009776894	Higher (196 ft.)	0.017 mi. S (90 ft.)	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	251
27	FRSTX	110036666809	Higher (196 ft.)	0.017 mi. S (90 ft.)	AUSTIN EL	14796 HWY 105 EAST, CONROE, TX 77306	252
27	ICIS	110009776894	Higher (196 ft.)	0.017 mi. S (90 ft.)	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	253
27	ICISNPDES	TX0083216INPDES	Higher (196 ft.)	0.017 mi. S (90 ft.)	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	254
27	NPDESR06	TX0083216	Higher (196 ft.)	0.017 mi. S (90 ft.)	CONROE ISD	14796 HWY 105/WAUKEGAN MONTGOMERY COUNTY, CONROE, TX 77301	279
28	FRSTX	110033853676	Higher (200 ft.)	0.017 mi. NNW (90 ft.)	GNB AUTO SUPPLIES	11635 HIGHWAY 105 E, CONROE, TX 77306	280
29	FRSTX	110059594381	Higher (211 ft.)	0.018 mi. SSE (95 ft.)	ACCU-RITE PRECISION	12222 HWY 105 EAST, CONROE, TX 77306	281
30	FRSTX	110034483627	Higher (217 ft.)	0.019 mi. SSE (100 ft.)	PIT STOP FOOD MART 1	12762 HIGHWAY 105 E, CUT AND SHOOT, TX 77306	282
30	***PST***	***47355***	***Higher (217 ft.)***	***0.019 mi. SSE (100 ft.)***	***FUEL MAXX 1***	***12792 HIGHWAY 105 E, CUT AND SHOOT, TX 77306***	***283***
31	FRSTX	110057282408	Lower (185 ft.)	0.019 mi. N (100 ft.)	S&S FABRICATION LLC	18305 HWY 105, CLEVELAND, TX 77328	289
31	FRSTX	110059644176	Lower (185 ft.)	0.019 mi. N (100 ft.)	S&S FABRICATION LLC	18305 HWY 105, CLEVELAND, TX 77328	290
32	***LPST***	***116366***	***Lower (161 ft.)***	***0.021 mi. S (111 ft.)***	***ROY C CRYSEL***	***21120 HIGHWAY 105, CLEVELAND, TX***	***291***
32	***PST***	***42482***	***Lower (161 ft.)***	***0.021 mi. S (111 ft.)***	***ROY C CRYSEL***	***21120 HIGHWAY 105, CLEVELAND, TX 77328***	***295***
33	IHW	H1752	Lower (188 ft.)	0.022 mi. S (116 ft.)	WASTE MANAGEMENT SECURITY LANDFILL	19248 HIGHWAY 105, CLEVELAND, TX 77328	299
33	***MSWLF***	***1752***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY RECYCLING AND DISPOSAL FACILITY***	***19248 HIGHWAY 105 CLEVELAND, CLEVELAND, TX 77328***	***300***
33	***MSWLF***	***1752A***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY RECYCLING AND DISPOSAL FACILITY***	***19248 HIGHWAY 105 CLEVELAND, CLEVELAND, TX 77328***	***301***
33	***MSWLF***	***1752B***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY RECYCLING AND DISPOSAL FACILITY***	***19248 HIGHWAY 105, CLEVELAND, TX 77328***	***302***
33	***MSWLF***	***48008***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY LFGTE FACILITY***	***19248 HIGHWAY 105, CLEVELAND, TX 77328***	***303***
33	***PST***	***63685***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY RECYCLING AND DISPOSAL FACILITY***	***19248 HWY 105, CLEVELAND, TX 77327***	***304***
33	***PST***	***64822***	***Lower (188 ft.)***	***0.022 mi. S (116 ft.)***	***SECURITY LANDFILL***	***19248 HIGHWAY 105, CLEVELAND, TX 77328***	***306***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
34	***PST***	***75052***	***Higher (213 ft.)***	***0.025 mi. SSE (132 ft.)***	***TIMEWISE FOOD STORE 319-05***	***11000 E DAVIS ST, CONROE, TX 77301***	***309***
35	***PST***	***71180***	***Higher (207 ft.)***	***0.026 mi. S (137 ft.)***	***KOUNTRY KWIK 2***	***16244 HIGHWAY 105 E, CONROE, TX 77306***	***316***
36	***RCRAGR06***	***TXR000083127***	***Higher (207 ft.)***	***0.027 mi. N (143 ft.)***	***FAMILY DOLLAR #7862***	***16000 HIGHWAY 105 E, CONROE, TX 77306***	***322***
37	***PST***	***85775***	***Lower (153 ft.)***	***0.028 mi. NNW (148 ft.)***	***FUEL MAXX 10***	***25525 HIGHWAY 105 E, CLEVELAND, TX 77328***	***324***
38	***PST***	***77652***	***Higher (213 ft.)***	***0.029 mi. N (153 ft.)***	***FAST LANE FOOD MARKET***	***16441 HIGHWAY 105 E STE 100, CONROE, TX 77306***	***330***
39	***BF***	***125661***	***Lower (183 ft.)***	***0.037 mi. NNW (195 ft.)***	***1402 E DAVIS CONROE SITE***	***1402 EAST DAVIS, CONROE, TX 77301***	***336***
39	***PST***	***30064***	***Lower (183 ft.)***	***0.037 mi. NNW (195 ft.)***	***FORMER SUPER STOP 3***	***1514 E DAVIS ST, CONROE, TX 77301***	***338***
39	***PST***	***85512***	***Lower (183 ft.)***	***0.037 mi. NNW (195 ft.)***	***EXPRESSWAY MARKET***	***1526 E DAVIS ST, CONROE, TX 77301***	***344***
40	***LPST***	***104506***	***Higher (203 ft.)***	***0.051 mi. SSE (269 ft.)***	***SILVER EAGLE DISTRIBUTORS INC***	***2617 INDUSTRIAL LN, CONROE, TX***	***349***
40	***PST***	***42288***	***Higher (203 ft.)***	***0.051 mi. SSE (269 ft.)***	***SILVER EAGLE DISTRIBUTORS***	***2617 INDUSTRIAL LN, CONROE, TX 77301***	***354***
40	***PST***	***42290***	***Higher (203 ft.)***	***0.051 mi. SSE (269 ft.)***	***SILVER EAGLE DISTRIBUTORS***	***2715 INDUSTRIAL LN, CONROE, TX 77301***	***362***
41	IHW	83927	Higher (224 ft.)	0.054 mi. SSE (285 ft.)	WESTERN WASTE INDUSTRIES	12286 HIGHWAY 105 E, CONROE, TX 77306	365
41	***IHWCA***	***83927***	***Higher (224 ft.)***	***0.054 mi. SSE (285 ft.)***	***WESTERN WASTE INDUSTRIES***	***12286 HIGHWAY 105 E, CONROE, TX 77306***	***366***
41	***MSWLF***	***42037***	***Higher (224 ft.)***	***0.054 mi. SSE (285 ft.)***	***NEW EARTH INC***	***12286 HIGHWAY 105 E, CONROE, TX 77306***	***367***
41	***RCRANGR06***	***TXR000006361***	***Higher (224 ft.)***	***0.054 mi. SSE (285 ft.)***	***WESTERN WASTE INDUSTRIES***	***12286 HIGHWAY 105, CONROE, TX 77303***	***368***
41	WMRF	31402	Higher (224 ft.)	0.054 mi. SSE (285 ft.)	RAMROD ENTERPRISE	12286 HWY 105 E, CONROE, TX 77306	370
42	IHW	85784	Higher (203 ft.)	0.058 mi. SSE (306 ft.)	DIAMONDBACK DIRECTIONAL	2615 INDUSTRIAL LN, CONROE, TX 77301	371
43	***LPST***	***113047***	***Higher (196 ft.)***	***0.063 mi. S (333 ft.)***	***BROOKS DISTRIBUTING***	***101 LONGVIEW ST, CONROE, TX***	***372***
43	***PST***	***40681***	***Higher (196 ft.)***	***0.063 mi. S (333 ft.)***	***BROOKS DISTRIBUTING***	***101 LONGVIEW ST, CONROE, TX 77301***	***376***

Located Sites Summary

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Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
44	***RCRANGR06***	***TXR000079194***	***Higher (217 ft.)***	***0.073 mi. NW (385 ft.)***	***TEXAS PORT RECYCLING LP***	***11895 DOUGET RD, CONROE, TX 77303***	***380***
45	***PST***	***79606***	***Higher (219 ft.)***	***0.09 mi. NNW (475 ft.)***	***BEN E KEITH FOOD***	***201 BEACH AIRPORT RD, CONROE, TX 77301***	***382***
46	APAR	2212	Higher (206 ft.)	0.099 mi. SSE (523 ft.)	UNIDYNAMICS	188 FM 3083 RD, CONROE, TX 77301	384
46	IHW	38090	Higher (206 ft.)	0.099 mi. SSE (523 ft.)	UNIDYNAMICS	188 FM 3083 RD, CONROE, TX 77301	385
46	***IHWCA***	***38090***	***Higher (206 ft.)***	***0.099 mi. SSE (523 ft.)***	***UNIDYNAMICS***	***188 FM 3083 RD, CONROE, TX 77301***	***388***
46	***RCRANGR06***	***TXD988064606***	***Higher (206 ft.)***	***0.099 mi. SSE (523 ft.)***	***UNIDYNAMICS INC***	***188 FM 3083, CONROE, TX 77301***	***389***
46	***VCP***	***2212***	***Higher (206 ft.)***	***0.099 mi. SSE (523 ft.)***	***UNIDYNAMICS***	***188 FM 3083, CONROE, TX 77301***	***391***
47	***PST***	***23640***	***Higher (201 ft.)***	***0.112 mi. SSE (591 ft.)***	***WATSON CONSTRUCTION***	***2610 INDUSTRIAL LN, CONROE, TX 77301***	***392***
48	IHW	72417	Higher (201 ft.)	0.113 mi. SSE (597 ft.)	CONROE ENGINE & DIESEL SERV	2614 INDUSTRIAL LN, CONROE, TX 77301	394
48	***RCRANGR06***	***TXD052189115***	***Higher (201 ft.)***	***0.113 mi. SSE (597 ft.)***	***CONROE ENGINE & DIESEL SERV***	***2614 INDUSTRIAL, CONROE, TX 77301***	***395***
49	IHW	67752	Higher (214 ft.)	0.118 mi. SSE (623 ft.)	SMITH & COMPANY CONROE YARD	1572 FM 1485 RD, CONROE, TX 77301	397
49	***IHWCA***	***67752***	***Higher (214 ft.)***	***0.118 mi. SSE (623 ft.)***	***SMITH & CO CONROE YARD***	***1572 FM 1485 RD, CONROE, TX 77301***	***399***
49	***PST***	***18741***	***Higher (214 ft.)***	***0.118 mi. SSE (623 ft.)***	***SMITH & COMPANY***	***FM 1485, CONROE, TX 77305***	***400***
49	***PST***	***52473***	***Higher (214 ft.)***	***0.118 mi. SSE (623 ft.)***	***SMITH & COMPANY***	***1572 FM 1485 RD, CONROE, TX 77301***	***405***
49	***RCRAGR06***	***TXD981518897***	***Higher (214 ft.)***	***0.118 mi. SSE (623 ft.)***	***SMITH ; COMPANY CONROE YARD***	***1572 FM 1485 RD, CONROE, TX 77301***	***410***
50	IHW	95527	Higher (202 ft.)	0.139 mi. SSE (734 ft.)	LEAM DRILLING SYSTEMS MOTOR SHOP FACILITY	101 INDUSTRIAL CT, CONROE, TX 77301	412
51	***PST***	***30641***	***Higher (193 ft.)***	***0.148 mi. S (781 ft.)***	***MR QUIK DRIVE-IN***	***212 PORTER RD, CONROE, TX 77301***	***414***
52	***LPST***	***098217***	***Higher (202 ft.)***	***0.156 mi. SSE (824 ft.)***	***VANDERVOORT DAIRY FOODS***	***112 INDUSTRIAL CT, CONROE, TX***	***417***

Located Sites Summary

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Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
52	***PST***	***40508***	***Higher (202 ft.)***	***0.156 mi. SSE (824 ft.)***	***DLH DISTRIBUTING***	***112B INDUSTRIAL CT, CONROE, TX 77301***	***418***
53	***LPST***	***116850***	***Higher (195 ft.)***	***0.163 mi. W (861 ft.)***	***PUMP N SAVE***	***706 E DAVIS ST, CONROE, TX***	***420***
53	***LPST***	***118825***	***Higher (195 ft.)***	***0.163 mi. W (861 ft.)***	***SMOKE N FUEL STOP***	***706 E DAVIS ST, CONROE, TX***	***424***
53	***PST***	***67090***	***Higher (195 ft.)***	***0.163 mi. W (861 ft.)***	***SMOKE N FUEL STOP***	***706 E DAVIS ST, CONROE, TX 77301***	***428***
54	***PST***	***25249***	***Higher (193 ft.)***	***0.182 mi. SSE (961 ft.)***	***ODOM TRAILER MFG***	***213 PORTER RD, CONROE, TX 77301***	***434***
55	IHW	86491	Lower (159 ft.)	0.198 mi. NNW (1045 ft.)	STARCHEM	421 N FOSTORIA RD, CLEVELAND, TX 77328	436
55	***IHWCA***	***86491***	***Lower (159 ft.)***	***0.198 mi. NNW (1045 ft.)***	***STARCHEM CLEVELAND***	***421 N FOSTORIA RD, CLEVELAND, TX 77328***	***437***
56	IHW	83079	Higher (202 ft.)	0.208 mi. SSE (1098 ft.)	UTEX INDUSTRIES	116A INDUSTRIAL CT, CONROE, TX 77301	438
57	APAR	31678	Higher (209 ft.)	0.218 mi. SSE (1151 ft.)	MAVERICK TUBE LP CONROE	699 FM 3083 RD, CONROE, TX 77301	444
57	IHW	31678	Higher (209 ft.)	0.218 mi. SSE (1151 ft.)	TENARIS CONROE	699 FM 3083 RD, CONROE, TX 77301	445
57	***IHWCA***	***31678***	***Higher (209 ft.)***	***0.218 mi. SSE (1151 ft.)***	***MAVERICK TUBE CONROE***	***699 FM 3083 RD, CONROE, TX 77301***	***453***
57	***PST***	***56124***	***Higher (209 ft.)***	***0.218 mi. SSE (1151 ft.)***	***TENARIS CONROE***	***699 FM 3083 RD, CONROE, TX 77301***	***454***
58	***LPST***	***091641***	***Higher (202 ft.)***	***0.239 mi. W (1262 ft.)***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX***	***456***
58	***LPST***	***116133***	***Higher (202 ft.)***	***0.239 mi. W (1262 ft.)***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX***	***457***
58	***PST***	***639***	***Higher (202 ft.)***	***0.239 mi. W (1262 ft.)***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX 77301***	***463***
59	***SEMS***	***TXN000605215***	***Higher (207 ft.)***	***0.439 mi. S (2318 ft.)***	***DRILLCHEM EXPLOSION AND FIRE***	***4301 SOUTH LOOP 336 E, CONROE, TX 77301***	***472***
60	***LPST***	***118204***	***Higher (222 ft.)***	***0.487 mi. W (2571 ft.)***	***FORMER TEXACO***	***308 E DAVIS, CONROE, TX***	***473***
61	***VCP***	***2830***	***Higher (205 ft.)***	***0.487 mi. NNW (2571 ft.)***	***PROPOSED OSCAR J JOHNSON COMMUNITY CENTER***	***SE AND ADJACENT TO 1400-1600 BLOCK OF AIRPORT RD, S OF BUTLERSBURG RD, E OF VILL, CONROE, TX 77301***	***474***
62	APAR	1768	Lower (184 ft.)	0.494 mi. N (2608 ft.)	GAFFEY A DIVISION OF CRANE EQUIPMENT SERVICE	1436 N DUCK CREEK RD, CLEVELAND, TX 77328	475

Located Sites Summary

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Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
62	VCP	1768	Lower (184 ft.)	0.494 mi. N (2608 ft.)	GAFFEY DIVISION, CRANE EQUIPMENT & SERVICE	1436 NORTH DUCK CREEK ROAD, CLEVELAND, TX 77328	476
63	IHWCA	31801	Higher (194 ft.)	0.693 mi. SSE (3659 ft.)	DRILLING SPECIALTIES ALAMO PLANT	5450 JEFFERSON CHEMICAL RD, CONROE, TX 77301	477
64	IHWCA	30094	Higher (200 ft.)	0.966 mi. SSE (5100 ft.)	HUNTSMAN PETROCHEMICAL CONROE PLANT	5451 JEFFERSON CHEMICAL RD, CONROE, TX 77301	478
64	RCRASUBC	TXD008076853	Higher (200 ft.)	0.966 mi. SSE (5100 ft.)	HUNTSMAN PETROCHEMICAL CONROE PLANT	5451 JEFFERSON CHEMICAL RD, CONROE, TX 77301	479

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Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 190 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	AIRSAFS	203 ft.	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	34
1	***EC***	***203 ft.***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***38***
1	FRSTX	203 ft.	CONROE CREOSOTING CO	1776 EAST DAVIS STREET, CONROE, TX 77301	39
1	FRSTX	203 ft.	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	40
1	GWCC	203 ft.	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, TX 77301	41
1	GWCC	203 ft.	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, TX	42
1	GWCC	203 ft.	CONROE CREOSOTE	1776 E DAVIS ST, CONROE, CONROE, TX 77301	43
1	ICIS	203 ft.	CONROE CREOSOTING CO	1776 EAST DAVIS STREET, CONROE, TX 77301	44
1	ICIS	203 ft.	CONROE CREOSOTING COMPANY	HWY 105 EAST, CONROE, TX 77301	45
1	IHW	203 ft.	CONROE CREOSOTING	1776 E DAVIS ST, CONROE, TX 77301	46
1	LIENS	203 ft.	CONROE CREOSOTE	HIGHWAY 105 E BOX 9, CONROE, TX	49
1	***NPL***	***203 ft.***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***50***
1	***PST***	***203 ft.***	***CONROE CREOSOTING***	***HWY 105, CONROE, TX 77305***	***58***
1	***RCRANGR06***	***203 ft.***	***CONROE CREOSOTING CO***	***1776 E DAVIS ST, CONROE, TX 77301***	***61***
1	RODS	203 ft.	CONROE CREOSOTING CO.	HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301	64
1	***SEMS***	***203 ft.***	***CONROE CREOSOTING CO.***	***HIGHWAY 105 EAST, BOX 9, CONROE, TX 77301***	***65***
1	SFLIENS	203 ft.	CONROE CREOSOTING CO.	HIGHWAY 105 EAST, BOX 9, CO 77301	73
1	TRI	203 ft.	CONROE CREOSOTING CO	HWY 105 EAST, CONROE, TX 77301	74
2	***LPST***	***214 ft.***	***FORMER NAPA FACILITY***	***2416 E DAVIS ST, CONROE, TX***	***75***
2	***PST***	***214 ft.***	***FORMER NAPA FACILITY***	***2416 E DAVIS ST, CONROE, TX 77301***	***78***
3	***PST***	***213 ft.***	***SHOP N GO 2***	***2330 E DAVIS ST, CONROE, TX 77301***	***81***
8	TIERII	215 ft.	TXDOT-HOUSTON-MONTGOMERY, E LOOP 336 AT SH 105	E. LOOP 336 AT SH 105, CONROE, TX 77301	105
9	FRSTX	213 ft.	ICO INC	FM 3083 AT HIGHWAY 105, CONROE, TX 77305	107
10	***PST***	***203 ft.***	***CON-TEX WATER WELL***	***2112 E DAVIS ST, CONROE, TX 77301***	***108***
13	***LPST***	***208 ft.***	***FORMER COORS OF THE WOODS***	***2811 E DAVIS ST, CONROE, TX***	***120***
13	***PST***	***208 ft.***	***COORS OF THE WOODS***	***2811 E DAVIS ST, CONROE, TX 77301***	***124***
14	FRSTX	215 ft.	ANNIES COUNTRY STORE 2	3900 E DAVIS ST, CONROE, TX 77301	128
14	GWCC	215 ft.	SADLER DEVELOPMENT CORP	3900 E DAVIS, CONROE, CONROE, TX 77301	129
14	***LPST***	***215 ft.***	***FORMER ANNIES COUNTRY STORE 2***	***3900 E DAVIS ST, CONROE, TX***	***130***
14	NOV	215 ft.	ANNIES COUNTRY STORE 2	3900 E DAVIS ST, CONROE, TX 77301	135

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
14	***PST***	***215 ft.***	***SPEEDY STOP 88***	***3900 E DAVIS ST, CONROE, TX 77301***	***136***
16	FRSTX	217 ft.	CRYSTAL CREEK MKT	11925 HIGHWAY 105 E, CONROE, TX 77306	168
16	***LPST***	***217 ft.***	***CRYSTRAL CREEK SHOPPING CENTER***	***11925 HIGHWAY 105 E, CONROE, TX***	***169***
16	NOV	217 ft.	CRYSTAL CREEK MKT	11925 HIGHWAY 105 E, CONROE, TX 77306	181
16	***PST***	***217 ft.***	***CRYSTAL CREEK MARKET***	***11925 HIGHWAY 105 E, CONROE, TX 77306***	***183***
16	TIERII	217 ft.	AMERIGAS PROPANE	11997 HWY 105, CONROE, TX 77306	198
16	TIERII	217 ft.	AMERIGAS PROPANE	11997 HIGHWAY 105 E, CONROE, TX 77306	199
17	FRSTX	190 ft.	MIKE NICHOLS PAINT & BODY SHOP	19236 HWY 105, CLEVELAND, TX 77328	200
17	IHW	190 ft.	MIKE NICHOLS PAINT & BODY SHOP	19236 HIGHWAY 105, CLEVELAND, TX 77328	201
17	***RCRANGR06***	***190 ft.***	***MIKE NICHOLS PAINT & BODY SHOP INC***	***19236 HWY 105, CLEVELAND, TX 77327***	***202***
18	FRSTX	196 ft.	KOUNTRY MART	18919 HIGHWAY 105, CLEVELAND, TX 77328	204
18	NOV	196 ft.	KOUNTRY MART	18919 HIGHWAY 105, CLEVELAND, TX 77328	205
18	***PST***	***196 ft.***	***KOUNTRY MART***	***18919 HIGHWAY 105, CLEVELAND, TX 77328***	***206***
19	FRSTX	210 ft.	CONROE AUTO RECYCLING AUTO & TRUCK SALVAGE	2814 E DAVIS ST, CONROE, TX 77301	215
19	NOV	210 ft.	CONROE AUTO RECYCLING AUTO & TRUCK SALVAGE	2814 E DAVIS ST, CONROE, TX 77301	216
19	NOV	210 ft.	CAR DAN AUTO AND SALVAGE	2818 E DAVIS ST, CONROE, TX 77301	217
20	SPILLS	210 ft.		12091 HWY 105 EAST, CONROE, TX 77303	218
21	FRSTX	205 ft.	SUPER STOP 4	11487 HIGHWAY 105 E, CONROE, TX 77301	219
21	GWCC	205 ft.	EZ MART 5	11487 HWY 105, CONROE, TX	220
21	GWCC	205 ft.	EZ MART 5	11487 HIGHWAY 105 E, CONROE, TX	221
21	***LPST***	***205 ft.***	***EZ MART 5***	***11487 HIGHWAY 105 E, CONROE, TX***	***222***
21	***PST***	***205 ft.***	***E-Z MART 5***	***11487 HIGHWAY 105 E, CONROE, TX 77301***	***223***
22	FRSTX	213 ft.	DERRICK SERVICE INTERNATIONAL INC	FM 3083 & HIGHWAY 105, CONROE, TX 77301	233
22	IHW	213 ft.	DERRICK SERVICE INTERNATIONAL	105 FM 3083 RD, CONROE, TX 77301	234
24	NOV	206 ft.	SPEED WAY AUTO MOTOR	13085 HIGHWAY 105 E, CONROE, TX 77306	236
27	FRSTX	196 ft.	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	251
27	FRSTX	196 ft.	AUSTIN EL	14796 HWY 105 EAST, CONROE, TX 77306	252
27	ICIS	196 ft.	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	253
27	ICISNPDES	196 ft.	STEPHEN F AUSTIN ELEM WWTP	14796 HWY 105 E, CONROE, TX 77306	254
27	NPDESR06	196 ft.	CONROE ISD	14796 HWY 105/WAUKEGAN MONTGOMERY COUNTY, CONROE, TX 77301	279

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
28	FRSTX	200 ft.	GNB AUTO SUPPLIES	11635 HIGHWAY 105 E, CONROE, TX 77306	280
29	FRSTX	211 ft.	ACCU-RITE PRECISION	12222 HWY 105 EAST, CONROE, TX 77306	281
30	FRSTX	217 ft.	PIT STOP FOOD MART 1	12762 HIGHWAY 105 E, CUT AND SHOOT, TX 77306	282
30	***PST***	***217 ft.***	***FUEL MAXX 1***	***12792 HIGHWAY 105 E, CUT AND SHOOT, TX 77306***	***283***
34	***PST***	***213 ft.***	***TIMEWISE FOOD STORE 319-05***	***11000 E DAVIS ST, CONROE, TX 77301***	***309***
35	***PST***	***207 ft.***	***KOUNTRY KWIK 2***	***16244 HIGHWAY 105 E, CONROE, TX 77306***	***316***
36	***RCRAGR06***	***207 ft.***	***FAMILY DOLLAR #7862***	***16000 HIGHWAY 105 E, CONROE, TX 77306***	***322***
38	***PST***	***213 ft.***	***FAST LANE FOOD MARKET***	***16441 HIGHWAY 105 E STE 100, CONROE, TX 77306***	***330***
40	***LPST***	***203 ft.***	***SILVER EAGLE DISTRIBUTORS INC***	***2617 INDUSTRIAL LN, CONROE, TX***	***349***
40	***PST***	***203 ft.***	***SILVER EAGLE DISTRIBUTORS***	***2617 INDUSTRIAL LN, CONROE, TX 77301***	***354***
40	***PST***	***203 ft.***	***SILVER EAGLE DISTRIBUTORS***	***2715 INDUSTRIAL LN, CONROE, TX 77301***	***362***
41	IHW	224 ft.	WESTERN WASTE INDUSTRIES	12286 HIGHWAY 105 E, CONROE, TX 77306	365
41	***IHWCA***	***224 ft.***	***WESTERN WASTE INDUSTRIES***	***12286 HIGHWAY 105 E, CONROE, TX 77306***	***366***
41	***MSWLF***	***224 ft.***	***NEW EARTH INC***	***12286 HIGHWAY 105 E, CONROE, TX 77306***	***367***
41	***RCRANGR06***	***224 ft.***	***WESTERN WASTE INDUSTRIES***	***12286 HIGHWAY 105, CONROE, TX 77303***	***368***
41	WMRF	224 ft.	RAMROD ENTERPRISE	12286 HWY 105 E, CONROE, TX 77306	370
42	IHW	203 ft.	DIAMONDBACK DIRECTIONAL	2615 INDUSTRIAL LN, CONROE, TX 77301	371
43	***LPST***	***196 ft.***	***BROOKS DISTRIBUTING***	***101 LONGVIEW ST, CONROE, TX***	***372***
43	***PST***	***196 ft.***	***BROOKS DISTRIBUTING***	***101 LONGVIEW ST, CONROE, TX 77301***	***376***
44	***RCRANGR06***	***217 ft.***	***TEXAS PORT RECYCLING LP***	***11895 DOUGET RD, CONROE, TX 77303***	***380***
45	***PST***	***219 ft.***	***BEN E KEITH FOOD***	***201 BEACH AIRPORT RD, CONROE, TX 77301***	***382***
46	APAR	206 ft.	UNIDYNAMICS	188 FM 3083 RD, CONROE, TX 77301	384
46	IHW	206 ft.	UNIDYNAMICS	188 FM 3083 RD, CONROE, TX 77301	385
46	***IHWCA***	***206 ft.***	***UNIDYNAMICS***	***188 FM 3083 RD, CONROE, TX 77301***	***388***
46	***RCRANGR06***	***206 ft.***	***UNIDYNAMICS INC***	***188 FM 3083, CONROE, TX 77301***	***389***
46	***VCP***	***206 ft.***	***UNIDYNAMICS***	***188 FM 3083, CONROE, TX 77301***	***391***
47	***PST***	***201 ft.***	***WATSON CONSTRUCTION***	***2610 INDUSTRIAL LN, CONROE, TX 77301***	***392***
48	IHW	201 ft.	CONROE ENGINE & DIESEL SERV	2614 INDUSTRIAL LN, CONROE, TX 77301	394
48	***RCRANGR06***	***201 ft.***	***CONROE ENGINE & DIESEL SERV***	***2614 INDUSTRIAL, CONROE, TX 77301***	***395***
49	IHW	214 ft.	SMITH & COMPANY CONROE YARD	1572 FM 1485 RD, CONROE, TX 77301	397
49	***IHWCA***	***214 ft.***	***SMITH & CO CONROE YARD***	***1572 FM 1485 RD, CONROE, TX 77301***	***399***
49	***PST***	***214 ft.***	***SMITH & COMPANY***	***FM 1485, CONROE, TX 77305***	***400***

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
49	***PST***	***214 ft.***	***SMITH & COMPANY***	***1572 FM 1485 RD, CONROE, TX 77301***	***405***
49	***RCRAGR06***	***214 ft.***	***SMITH ; COMPANY CONROE YARD***	***1572 FM 1485 RD, CONROE, TX 77301***	***410***
50	IHW	202 ft.	LEAM DRILLING SYSTEMS MOTOR SHOP FACILITY	101 INDUSTRIAL CT, CONROE, TX 77301	412
51	***PST***	***193 ft.***	***MR QUIK DRIVE-IN***	***212 PORTER RD, CONROE, TX 77301***	***414***
52	***LPST***	***202 ft.***	***VANDERVOORT DAIRY FOODS***	***112 INDUSTRIAL CT, CONROE, TX***	***417***
52	***PST***	***202 ft.***	***DLH DISTRIBUTING***	***112B INDUSTRIAL CT, CONROE, TX 77301***	***418***
53	***LPST***	***195 ft.***	***PUMP N SAVE***	***706 E DAVIS ST, CONROE, TX***	***420***
53	***LPST***	***195 ft.***	***SMOKE N FUEL STOP***	***706 E DAVIS ST, CONROE, TX***	***424***
53	***PST***	***195 ft.***	***SMOKE N FUEL STOP***	***706 E DAVIS ST, CONROE, TX 77301***	***428***
54	***PST***	***193 ft.***	***ODOM TRAILER MFG***	***213 PORTER RD, CONROE, TX 77301***	***434***
56	IHW	202 ft.	UTEX INDUSTRIES	116A INDUSTRIAL CT, CONROE, TX 77301	438
57	APAR	209 ft.	MAVERICK TUBE LP CONROE	699 FM 3083 RD, CONROE, TX 77301	444
57	IHW	209 ft.	TENARIS CONROE	699 FM 3083 RD, CONROE, TX 77301	445
57	***IHWCA***	***209 ft.***	***MAVERICK TUBE CONROE***	***699 FM 3083 RD, CONROE, TX 77301***	***453***
57	***PST***	***209 ft.***	***TENARIS CONROE***	***699 FM 3083 RD, CONROE, TX 77301***	***454***
58	***LPST***	***202 ft.***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX***	***456***
58	***LPST***	***202 ft.***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX***	***457***
58	***PST***	***202 ft.***	***MILOS ONE STOP***	***700 E DAVIS ST, CONROE, TX 77301***	***463***
59	***SEMS***	***207 ft.***	***DRILLCHEM EXPLOSION AND FIRE***	***4301 SOUTH LOOP 336 E, CONROE, TX 77301***	***472***
60	***LPST***	***222 ft.***	***FORMER TEXACO***	***308 E DAVIS, CONROE, TX***	***473***
61	***VCP***	***205 ft.***	***PROPOSED OSCAR J JOHNSON COMMUNITY CENTER***	***SE AND ADJACENT TO 1400-1600 BLOCK OF AIRPORT RD, S OF BUTLERSBURG RD, E OF VILL, CONROE, TX 77301***	***474***
63	***IHWCA***	***194 ft.***	***DRILLING SPECIALTIES ALAMO PLANT***	***5450 JEFFERSON CHEMICAL RD, CONROE, TX 77301***	***477***
64	***IHWCA***	***200 ft.***	***HUNTSMAN PETROCHEMICAL CONROE PLANT***	***5451 JEFFERSON CHEMICAL RD, CONROE, TX 77301***	***478***
64	***RCRASUBC***	***200 ft.***	***HUNTSMAN PETROCHEMICAL CONROE PLANT***	***5451 JEFFERSON CHEMICAL RD, CONROE, TX 77301***	***479***

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
4	FRSTX	186 ft.	ZP MART	18374 EAST HIGHWAY 105, CLEVELAND, TX 77328	86
4	NOV	186 ft.	ZP MART 1	18374 E HIGHWAY 105, CLEVELAND, TX 77328	87
4	NOV	186 ft.	ZP MART	18374 E HIGHWAY 105, CLEVELAND, TX 77328	89
4	***PST***	***186 ft.***	***EAGLE MART***	***18374 HIGHWAY 105, CLEVELAND, TX 77328***	***92***
5	***PST***	***162 ft.***	***LESTER W DUVAL***	***HWY 105 & DUCK CREEK R, CLEVELAND, TX 77327***	***100***

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
6	***CALF***	***186 ft.***	***SOLOMAN DISPOSAL SITE***	***HWY 105 & WALKER RD, TX***	***103***
7	***CALF***	***183 ft.***	***CONROE TRUCK & AUTO SITE***	***ADJ. TO W BANK OF STEWART CREEK & HWY 105 IN CONROE, TX***	***104***
11	***DCR***	***186 ft.***	***RIGHTEOUS CLEANERS***	***18363 HIGHWAY 105, CLEVELAND, TX 77328***	***111***
11	FRSTX	186 ft.	RIGHTEOUS CLEANERS	18363 HIGHWAY 105, CLEVELAND, TX 77328	112
12	FRSTX	156 ft.	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	113
12	FRSTX	156 ft.	CLEVELAND CONCRETE BATCH PLANT	27500 HIGHWAY 105 WEST, CLEVELAND, TX 77328	114
12	NOV	156 ft.	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	115
12	***PST***	***156 ft.***	***CLEVELAND PLANT 1177***	***27500 HWY 105 W, CLEVELAND, TX 77328***	***116***
12	TIERII	156 ft.	CLEVELAND PLANT 1177	27500 HWY 105 W, CLEVELAND, TX 77328	118
15	AIRSAFS	158 ft.	TENNESSEE GAS PIPELINE COMPANY-STAT 25	25726 HIGHWAY 105, CLEVLAND, TX 77327	143
15	FRSTX	158 ft.	TENNESSEE GAS PIPELINE STA 25	25726 HWY 105 W, CLEVELAND, TX 77328	153
15	IHW	158 ft.	TENNESEE GAS PIPELINE STATION 25	25726 HIGHWAY 105, CLEVELAND, TX 77328	154
15	PCSR06	158 ft.	TENNESSEE GAS PPLN	25726 HIGHWAY 105MONTGOMERY, CLEVELAND, TX	156
15	***PST***	***158 ft.***	***TGP COMPRESSOR STATION 25 CLEVELAND***	***25726 HIGHWAY 105, CLEVELAND, TX 77328***	***157***
15	***RCRANGR06***	***158 ft.***	***TENNESSEE GAS PIPELINE STA 25***	***25726 HWY 105 W, CLEVELAND, TX 77327***	***160***
15	TIERII	158 ft.	TENNESSEE GAS PIPELINE - STATION 25	25726 HIGHWAY 105, CLEVELAND, TX 77328	162
23	***ERNSTX***	***181 ft.***		***1304 EAST DAVIS ST, CONROE, TX***	***235***
25	DOCKETS	181 ft.	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	237
25	FRSTX	181 ft.	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	238
25	ICIS	181 ft.	FORDS AUTO PARTS	1200 E DAVIS ST, CONROE, TX 77301	239
26	FRSTX	185 ft.	MIDWAY PETROLEUM	18321 HIGHWAY 105, CLEVELAND, TX 77328	240
26	NOV	185 ft.	MIDWAY PETROLEUM	18321 HIGHWAY 105, CLEVELAND, TX 77328	241
26	***PST***	***185 ft.***	***MIDWAY 1***	***18321 HIGHWAY 105, CLEVELAND, TX 77328***	***243***
31	FRSTX	185 ft.	S&S FABRICATION LLC	18305 HWY 105, CLEVELAND, TX 77328	289
31	FRSTX	185 ft.	S&S FABRICATION LLC	18305 HWY 105, CLEVELAND, TX 77328	290
32	***LPST***	***161 ft.***	***ROY C CRYSEL***	***21120 HIGHWAY 105, CLEVELAND, TX***	***291***
32	***PST***	***161 ft.***	***ROY C CRYSEL***	***21120 HIGHWAY 105, CLEVELAND, TX 77328***	***295***
33	IHW	188 ft.	WASTE MANAGEMENT SECURITY LANDFILL	19248 HIGHWAY 105, CLEVELAND, TX 77328	299
33	***MSWLF***	***188 ft.***	***SECURITY RECYCLING AND DISPOSAL FACILITY***	***19248 HIGHWAY 105 CLEVELAND, CLEVELAND, TX 77328***	***300***

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
33	MSWLF	188 ft.	SECURITY RECYCLING AND DISPOSAL FACILITY	19248 HIGHWAY 105 CLEVELAND, CLEVELAND, TX 77328	301
33	MSWLF	188 ft.	SECURITY RECYCLING AND DISPOSAL FACILITY	19248 HIGHWAY 105, CLEVELAND, TX 77328	302
33	MSWLF	188 ft.	SECURITY LFGTE FACILITY	19248 HIGHWAY 105, CLEVELAND, TX 77328	303
33	PST	188 ft.	SECURITY RECYCLING AND DISPOSAL FACILITY	19248 HWY 105, CLEVELAND, TX 77327	304
33	PST	188 ft.	SECURITY LANDFILL	19248 HIGHWAY 105, CLEVELAND, TX 77328	306
37	PST	153 ft.	FUEL MAXX 10	25525 HIGHWAY 105 E, CLEVELAND, TX 77328	324
39	BF	183 ft.	1402 E DAVIS CONROE SITE	1402 EAST DAVIS, CONROE, TX 77301	336
39	PST	183 ft.	FORMER SUPER STOP 3	1514 E DAVIS ST, CONROE, TX 77301	338
39	PST	183 ft.	EXPRESSWAY MARKET	1526 E DAVIS ST, CONROE, TX 77301	344
55	IHW	159 ft.	STARCHEM	421 N FOSTORIA RD, CLEVELAND, TX 77328	436
55	IHWCA	159 ft.	STARCHEM CLEVELAND	421 N FOSTORIA RD, CLEVELAND, TX 77328	437
62	APAR	184 ft.	GAFFEY A DIVISION OF CRANE EQUIPMENT SERVICE	1436 N DUCK CREEK RD, CLEVELAND, TX 77328	475
62	VCP	184 ft.	GAFFEY DIVISION, CRANE EQUIPMENT & SERVICE	1436 NORTH DUCK CREEK ROAD, CLEVELAND, TX 77328	476

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ERNSTX Emergency Response Notification System

VERSION DATE: 10/15/17

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSTX Facility Registry System

VERSION DATE: 09/06/17

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 08/30/17

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/23/17

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System

VERSION DATE: 07/18/17

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted

facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 11/21/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

BF Brownfields Management System

VERSION DATE: 11/21/17

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 12/11/17

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 10/17/17

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 12/11/17

Environmental Records Definitions - FEDERAL

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 12/11/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 10/17/17

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

Environmental Records Definitions - FEDERAL

NPL National Priorities List

VERSION DATE: 12/11/17

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 12/11/17

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 12/11/17

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (TX)

GWCC Groundwater Contamination Cases

VERSION DATE: 08/26/16

This report contains a listing of groundwater contamination cases which were documented for the 2013 calendar year. Texas Water Code, Section 26.406 requires the annual report to describe the current status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The agencies reporting these contamination cases include the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/12

This historic report contains all agency groundwater contamination cases documented from 1994 to 2012. The agencies that reported these contamination cases included the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

LIENS TCEQ Liens

VERSION DATE: 12/20/17

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

MSD Municipal Setting Designations

VERSION DATE: 11/02/17

The Texas Commission on Environmental Quality defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

NOV Notice of Violations

VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 12/06/17

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS Spills Listing

VERSION DATE: 01/24/18

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

TIERII Tier I I Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports. This data contains those facility reports for the 2005 through the 2012 calendar years.

DCR Dry Cleaner Registration Database

VERSION DATE: 08/31/17

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 11/09/17

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 07/03/17

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PST Petroleum Storage Tanks

VERSION DATE: 01/03/18

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

APAR Affected Property Assessment Reports

VERSION DATE: 12/18/17

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA Brownfields Site Assessments

VERSION DATE: 09/20/17

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

CALF Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed

and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 09/01/17

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents.

IOP Innocent Owner / Operator Database

VERSION DATE: 11/20/17

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 01/09/18

The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 12/08/17

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 10/25/17

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 12/06/17

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 01/10/18

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

SF State Superfund Sites

VERSION DATE: 09/23/16

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and

evaluates these facilities for inclusion on the state Superfund registry. This registry includes any recent developments and the anticipated action for these sites.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/06/17

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/06/17

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

GeoPlus Water Well Report

Satellite view

Target Property:

SH 105: From 10th Street in Conroe to Business 105
Conroe, Montgomery County, Texas

Prepared For:

Jacobs-Fort Worth

Order #: 72590
Job #: 155845
Project #: WHXK2805
Date: 02/27/2018

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Target Property Summary

Target Property Information

SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

Coordinates
Area centroid (-95.296311, 30.3272314)

USGS Quadrangle
Conroe, TX
Cut And Shoot, TX
Fostoria, TX

Geographic Coverage Information

County/Parish: Montgomery (TX) , San Jacinto (TX) , Liberty (TX)
ZipCode(s):
Conroe TX: 77301, 77303, 77306
Cleveland TX: 77328

Radon
* Target property is located in Radon Zone 3.
Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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Database Radius Summary

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	2	1	3	2	NS	NS	8
SUB-TOTAL		2	1	3	2	0	0	8

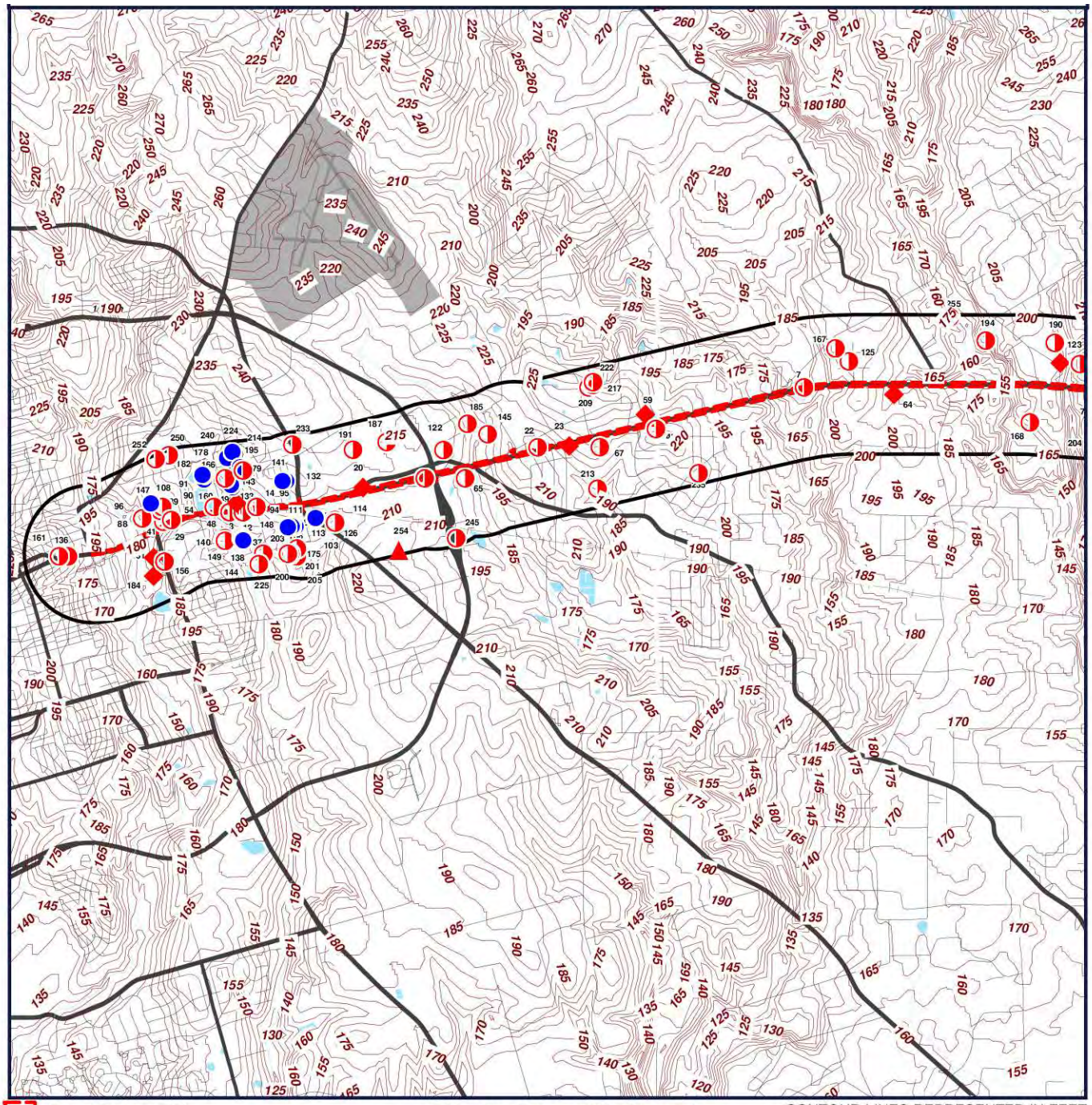
Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SDRD	0.5000	36	41	59	72	NS	NS	208
TCEQ	0.5000	2	29	28	17	NS	NS	76
TWDB	0.5000	7	10	5	8	NS	NS	30
WUD	0.5000	3	4	0	4	NS	NS	11
SUB-TOTAL		48	84	92	101	0	0	325
TOTAL		50	85	95	103	0	0	333

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Waterwell Map



Target Property (TP)
SDRD
TWDB
TCEQ
WUD
NWIS

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

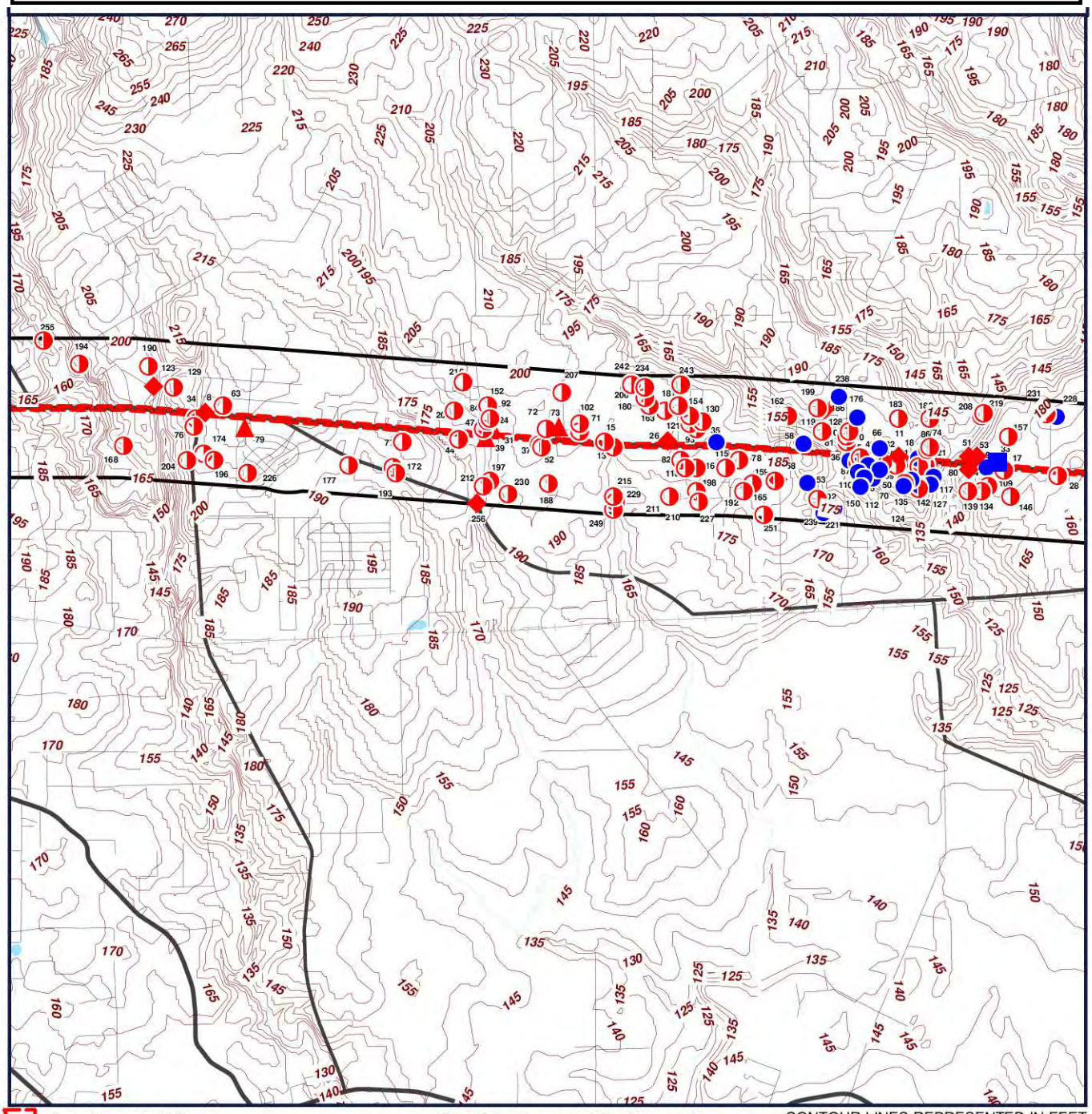
CONTOUR LINES REPRESENTED IN FEET

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

WaterwellB Map



Target Property (TP)
SDRD
TWDB
TCEQ
WUD
NWIS

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

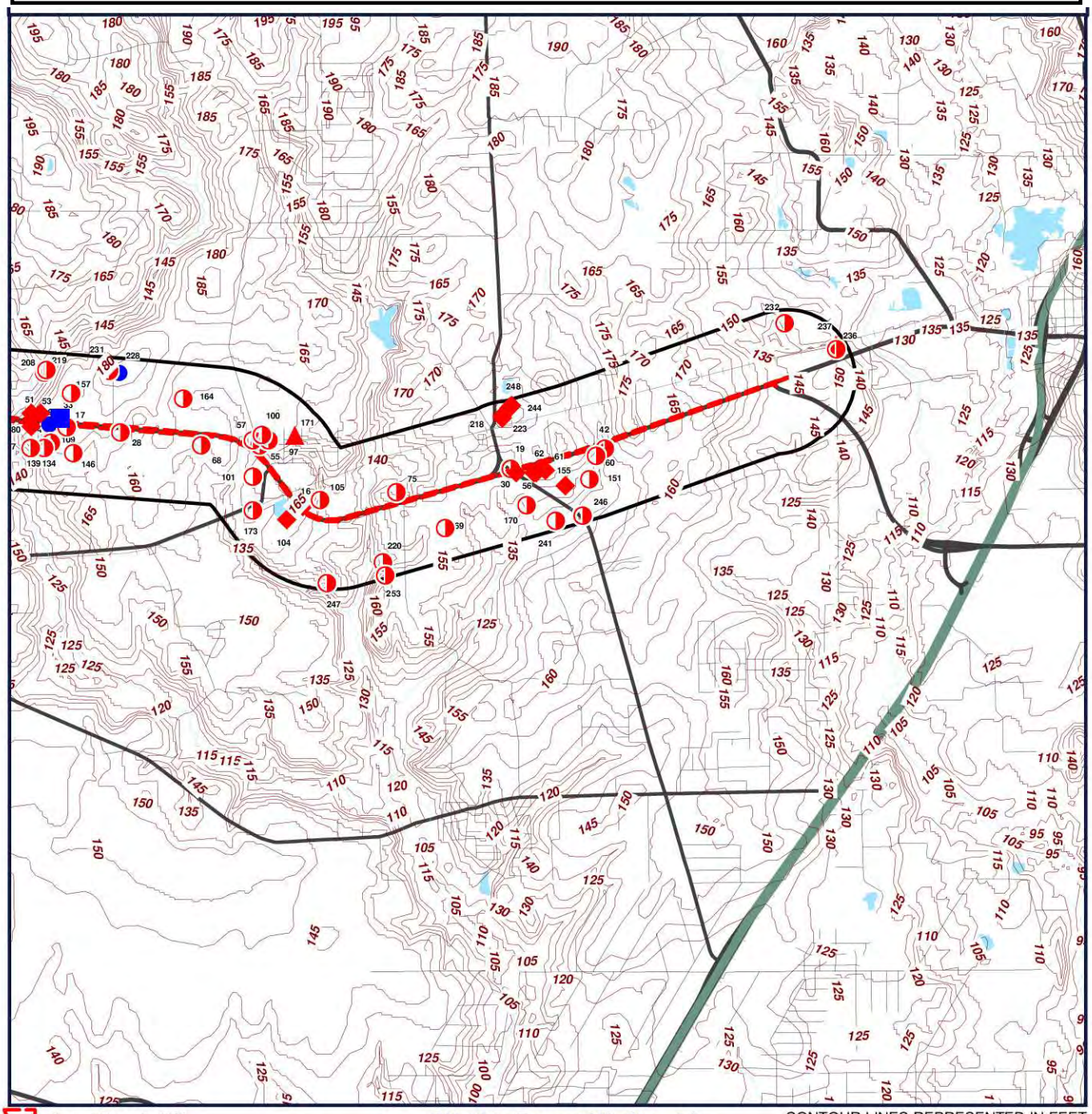
CONTOUR LINES REPRESENTED IN FEET

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

WaterwellC Map



Target Property (TP)
SDRD
TWDB
TCEQ
WUD
NWIS

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

CONTOUR LINES REPRESENTED IN FEET

N
W E
S

0' 3000' 6000' 9000'
SCALE: 1" = 6000'

Click here to access Satellite view

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Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	SDRD	TX460685	TP	TCEQ	21562 HIGHWAY 105 E., CLEVELAND, TX 77328	22
2	SDRD	TX460682	TP	TCEQ	21562 HIGHWAY 105 E., CLEVELAND, TX 77328	23
3	SDRD	TX358196	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	24
3	SDRD	TX358203	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	25
3	SDRD	TX358212	TP	LEAM DRLLING	2010 EAST DAVIS STREET, CONROE, TX 77301	26
3	SDRD	TX358214	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	27
3	SDRD	TX358226	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	28
3	SDRD	TX358232	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	29
3	SDRD	TX358238	TP	LEAM DRILLING	2010 EAST DAVIS STREET, CONROE, TX 77301	30
4	SDRD	TX193128	TP	ROY CRYSEL	TX 77328	31
4	SDRD	TX193132	TP	ROY CRYSEL	TX 77328	32
5	SDRD	TX193127	TP	ROY CRYSEL	TX 77328	33
6	SDRD	TX177935	TP	SPEEDY STOP FOODS STORES LTD, #88	3900 E. DAVIS ST., CONROE, TX 77301	34
6	SDRD	TX177937	TP	SPEEDY STOP FOODS STORES LTD, #88	3900 E. DAVIS ST., CONROE, TX 77301	35
6	SDRD	TX177939	TP	SPEEDY STOP FOODS STORES LTD, #88	3900 E. DAVIS ST., CONROE, TX 77301	36
6	SDRD	TX177941	TP	SPEEDY STOP FOODS STORES LTD, #88	3900 E. DAVIS ST., CONROE, TX 77301	37
7	SDRD	TX12463	TP	COE, HARVEY	2735 BOBVILLE ROAD, MONTGOMERY, TX 77356	38
8	TWDB	60-46-501	TP	RICE UNIVERSITY C. D. HUFF		39
9	TCEQ	TX232451	TP	WALTER HERREN	22345 HWY 105, CLEVELAND 77327	41
10	SDRD	TX135601	TP	RANDY KHRYSLER	21120 HIGHWYA 105, CLEVELAND, TX 77328	43
11	TWDB	60-47-406	0.001 mi. N (5 ft.)	WALLS BAR-B-QUE		44
12	SDRD	TX206651	0.001 mi. S (5 ft.)	WEISINGER WATER WELL, INC.	2106 EAST DAVIS STREET, CONROE, TX 77301	47
13	SDRD	TX92583	0.002 mi. S (11 ft.)	LINDA HAWTHORN	19192 HWY 105 E, CLEVELAND,TX., TX 77328	48
14	SDRD	TX143768	0.005 mi. N (26 ft.)	WEISINGER WATER WELL,INC.	S.SPRING CREEK,W.KURKENDAHL,N.KINGS RD, TX	49
15	SDRD	TX78104	0.006 mi. N (32 ft.)	SIDNEY RASNICK	14384 BAXTER RD, SAME, TX 77328	50
16	TWDB	60-47-502	0.006 mi. NE (32 ft.)	W. H. HOLTON		51
17	SDRD	TX340945	0.007 mi. S (37 ft.)	BETTY CONNER	15130 WHITE OAK LN, CONROE, TX, TX 77303	54
18	TCEQ	TX232449	0.011 mi. N (58 ft.)	GEORGE OR BETTE GRAY	DUCK CREEK RD, CLEVELAND 77327	55
19	SDRD	TX363046	0.011 mi. NE (58 ft.)	105/FOSTORIA PROPERTY INC.	25525 HWY. 105 E, CLEVELAND, TX 77328	57

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
20	NWIS	00724631	0.012 mi. NNW (63 ft.)	TS-60-45-613		58
20	TWDB	60-45-613	0.012 mi. NNW (63 ft.)	CRYSTAL CREEK GROCERY		59
21	SDRD	TX60568	0.013 mi. S (69 ft.)	LUTHER A. REX	21519 HWY 105 E, CLEVELAND, TEXAS, TX 77328	60
22	SDRD	TX464035	0.013 mi. NNW (69 ft.)	STOECKER CORPORATION	17693 HWY 105 E, CONROE, TX	61
22	SDRD	TX464038	0.013 mi. NNW (69 ft.)	STOECKER CORPORATION	17693 HWY 105 E, CONROE, TX	62
22	SDRD	TX464039	0.013 mi. NNW (69 ft.)	STOECKER CORPORATION	17693 HWY 105 E, CONROE, TX	63
23	TWDB	60-45-602	0.013 mi. SSE (69 ft.)	L. M. RUNNELS		64
24	SDRD	TX215783	0.014 mi. N (74 ft.)	MIDWAY PETROLEUM (MIKE MITTAL)	18321 HWY 105 E, CLEVELAND,TX, TX 77328	67
24	WUD	11472	0.014 mi. N (74 ft.)	MIDWAY PETROLEUM		68
24	WUD	11473	0.014 mi. N (74 ft.)	MIDWAY PETROLEUM		69
25	SDRD	TX187210	0.014 mi. S (74 ft.)	ROY CRYSEL FACILITY	CLEVELAND, TX 77328	70
25	SDRD	TX266862	0.014 mi. S (74 ft.)	DAVID & SHANNON RICHARDSON	21120 HWY 105, CLEVELAND, TX	71
26	TWDB	60-46-602	0.015 mi. N (79 ft.)	CHARLIE GRIMES		72
27	SDRD	TX187205	0.015 mi. S (79 ft.)	ROY CRYSEL FACILITY	CLEVELAND, TX 77328	75
27	SDRD	TX219010	0.015 mi. S (79 ft.)	ROY CRYSEL FACILITY	21120 HWY 105, CLEVELAND, TX 77328	76
28	SDRD	TX2776	0.016 mi. S (84 ft.)	WALLER, SYLVIA/OLIVER	22670 HWY 105 EAST, CLEVELAND, TX 77327	77
29	SDRD	TX134983	0.016 mi. NNW (84 ft.)	U.S. ENVIRONMENTAL PROTECTION AGENCY (EP	1776 EAST DAVIS STREET, CONROE, TX 77301	78
30	TWDB	60-47-604	0.017 mi. SSE (90 ft.)	AMERADA PETROLEUM CO.		79
31	WUD	11591	0.018 mi. N (95 ft.)	PORKYS BAR		81
32	SDRD	TX53877	0.018 mi. S (95 ft.)	SUSANO GUADARRMA	21310 HWY 105, CLEVELAND, TX 77328	82
33	NWIS	00724709	0.018 mi. N (95 ft.)	WW-60-47-403		83

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
34	SDRD	TX73047	0.02 mi. S (106 ft.)	BORDELON, CINDY	2110 PIONEER LANE, CLEVELAND, TX 77328	84
35	TCEQ	TX209321	0.022 mi. N (116 ft.)	W L HUGHES		85
36	TCEQ	TX209328	0.022 mi. S (116 ft.)	ALTON POPE		87
36	TCEQ	TX209329	0.022 mi. S (116 ft.)	PERRY WOOLERY		89
36	TCEQ	TX209330	0.022 mi. S (116 ft.)	RON NEWTON		91
36	TCEQ	TX209337	0.022 mi. S (116 ft.)	BRYAN SEWALL		93
36	TCEQ	TX209341	0.022 mi. S (116 ft.)	J C MCDONALD		96
36	TCEQ	TX209342	0.022 mi. S (116 ft.)	BRYAN SEWALL		99
36	TCEQ	TX209343	0.022 mi. S (116 ft.)	CLINTON L SMALL		102
36	TCEQ	TX232446	0.022 mi. S (116 ft.)	CLINTON SMALL	ADDRESS NOT LISTED, CLEVELAND N/A	105
36	TCEQ	TX232448	0.022 mi. S (116 ft.)	CLINTON SMALL	ADDRESS NOT LISTED, CLEVELAND N/A	107
37	SDRD	TX344336	0.023 mi. S (121 ft.)	RUBEN LIMON	18752 HWY 105E, CLEVELAND,TX, TX 77328	109
38	SDRD	TX460687	0.025 mi. S (132 ft.)	TCEQ	21562 HIGHWAY 105 E., CLEVELAND, TX 77328	110
39	WUD	11576	0.027 mi. S (143 ft.)	ZP MART		111
40	TWDB	60-47-403	0.027 mi. S (143 ft.)	R. A. BOYD		112
41	SDRD	TX445523	0.028 mi. NNW (148 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	115
42	SDRD	TX408011	0.029 mi. SSE (153 ft.)	WILLIAMS, DEBBIE	CLEVELAND, TX	116
43	SDRD	TX357248	0.029 mi. SSE (153 ft.)	MARTIN MARTINEZ	12958 HIGHWAY 105 EAST, CONROE, TX 77306	117
44	SDRD	TX166772	0.029 mi. S (153 ft.)	JIMMIE WALKER	18166 HWY 105, CLEVELAND,TX, TX 77328	118
45	SDRD	TX249116	0.03 mi. S (158 ft.)	GAREIA ERIE	21384 HWY 105E, CLEVELAND ,TX., TX 77328	119
46	SDRD	TX204195	0.033 mi. S (174 ft.)	LARRY D. GRUNER	21120 HWY 105 E, CLEVELAND , TX, TX 77328	120
47	SDRD	TX79158	0.033 mi. N (174 ft.)	GLASSEL PROPERTIES	6905 HIDDEN ACRES, CLEVELAND, TX 77328	121
48	SDRD	TX422481	0.037 mi. N (195 ft.)	CITY OF CONROE PARKS AND RECREATION DEPT.	1400-1600 BLOCK OF AIRPORT RD., CONROE, TX	122
49	NWIS	00724573	0.04 mi. N (211 ft.)	TS-60-45-513		123

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
49	TWDB	60-45-513	0.04 mi. N (211 ft.)	WEISINGER WATER WELL, INC.		124
50	TCEQ	TX232443	0.04 mi. S (211 ft.)	GEOFFREY R KILBURN	ADDRESS NOT LISTED, CLEVELAND N/A	126
51	TWDB	60-47-401	0.04 mi. N (211 ft.)	W. T. HERRIN		129
52	SDRD	TX175035	0.041 mi. S (216 ft.)	MONTGOMERY CO. PCT. 4	18760 HWY 105 E, CLEVELAND, TX 77328	131
53	TWDB	60-47-402	0.045 mi. N (238 ft.)	MRS. L. E. MCWHORTERS		132
54	TWDB	60-45-508	0.047 mi. NNW (248 ft.)	CONROE CREOSOTING CO.		134
55	SDRD	TX150625	0.052 mi. NE (275 ft.)	MINERVA REBOLLAR	210 LEE TURNER ROAD, CLEVELAND, TX 77328	137
56	TWDB	60-47-601	0.054 mi. SSE (285 ft.)	TENNESSEE GAS TRANSMISSION CO.		138
57	SDRD	TX240295	0.056 mi. NE (296 ft.)	HERNANDEZ, CANDIDO	225 LEE TURNER RD., CLEVELAND, TX 77328	141
58	TCEQ	TX209314	0.056 mi. N (296 ft.)	ROY BUVINGHAUSEN		142
59	TWDB	60-45-603	0.056 mi. NNW (296 ft.)	FARM MARKET		144
60	SDRD	TX85885	0.057 mi. SSE (301 ft.)	TUCKER WILLIAMS	25678 HWY 105 W, CLEVELAND , TX., TX 77327	147
61	SDRD	TX288100	0.058 mi. SSE (306 ft.)	TENNESSEE GAS PIPELINE CO.	25726 HWY 105, CLEVELAND, TX 77328	148
61	TWDB	60-47-614	0.058 mi. SSE (306 ft.)	TENNESSEE GAS PIPELINE WELL #2		149
62	TWDB	60-47-603	0.058 mi. SSE (306 ft.)	TENNESSEE GAS TRANSMISSION CO.		174
63	SDRD	TX43837	0.061 mi. N (322 ft.)	RICHARD L. WAGNER	CARMEN BLVD RES B, CONROE, TX 77304	177
63	SDRD	TX43838	0.061 mi. N (322 ft.)	RICHARD L. WAGNER	CARMEN BLVD RES B, CONROE, TX 77304	178
63	WUD	11547	0.061 mi. N (322 ft.)	EMERSON ESTATES		179
64	TWDB	60-46-404	0.061 mi. S (322 ft.)	AUSTIN SCHOOL		180
65	SDRD	TX84347	0.064 mi. SSE (338 ft.)	RAY	11530 HWY 105 EAST, CONROE, TX 77301	183
66	TCEQ	TX209339	0.065 mi. N (343 ft.)	C F ADAMS		184

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
67	SDRD	TX107190	0.066 mi. SSE (348 ft.)	RAMROD ENTERPRISES ABA TEXANS AGRI PROD.	12286 HWY 105 EAST, CONROE, TX 77306	187
68	SDRD	TX136854	0.066 mi. S (348 ft.)	RUDOLPH ADAME MORALES	23402 HWY E, CLEVELAND,TX, TX 77328	188
69	TCEQ	TX209324	0.068 mi. S (359 ft.)	JAMES B TAYLER, JR		189
69	TCEQ	TX209325	0.068 mi. S (359 ft.)	LEO FRANKLIN		191
69	TCEQ	TX209326	0.068 mi. S (359 ft.)	BRYAN SEWALL		193
69	TCEQ	TX209331	0.068 mi. S (359 ft.)	HUNKPILLAR		195
70	TCEQ	TX209322	0.068 mi. S (359 ft.)	LOUIS POWELL		197
70	TCEQ	TX209323	0.068 mi. S (359 ft.)	MORTAY - JIM TAYLOR		199
70	TCEQ	TX209340	0.068 mi. S (359 ft.)	F F LARRISON		201
70	TCEQ	TX232439	0.068 mi. S (359 ft.)	JOW G. HAMMONS	21260 HIGHWAY 105E, CLEVELAND 77328	204
71	SDRD	TX81624	0.068 mi. N (359 ft.)	CARLOS & CATHY MORALES	19056 STILLWOOD RD,, CLEVELAND,TX, TX 77328	206
72	SDRD	TX340103	0.068 mi. N (359 ft.)	CHARLES COBURN	127 COBURN RD, CLEVELAND, TX 77328	207
73	WUD	11492	0.071 mi. N (375 ft.)	KOUNTRY MART		208
74	SDRD	TX183238	0.074 mi. N (391 ft.)	GOUGHER, TRAVIS	501 B ARANDA LN., CLEVELAND, TX 77328	209
75	SDRD	TX106500	0.075 mi. NNW (396 ft.)	LONNIE DOLLINS JR.	24915 HWY HWY 105 E, CLEVELAND, TX, TX 77328	210
76	SDRD	TX340749	0.079 mi. S (417 ft.)	03CELSO ORTIZ	644 CROCKET MARTIN, CONROE, TX 77303	211
77	SDRD	TX85886	0.079 mi. S (417 ft.)	MEDARDO BARRERA	17776 HWY 105 E, CLEVELAND, TEXAS, TX 77328	212
78	SDRD	TX266947	0.081 mi. S (428 ft.)	DANLEY,STEPHANIE	1020 SECURITY FOREST, CLEVELAND, TX 77328	213
79	WUD	11546	0.084 mi. S (444 ft.)	EMERSON ESTATES		214
80	TCEQ	TX232452	0.086 mi. S (454 ft.)	LEO PETRICH	ADDRESS NOT LISTED, CLEVELAND N/A	215
81	SDRD	TX448350	0.088 mi. N (465 ft.)	LORENZO AVILEZ	374 N. DUCK CREEK RD., CLEVELAND, TX 77327	217
82	SDRD	TX92358	0.09 mi. S (475 ft.)	CHARLES READ	20298 OLD HWY 105E, CLEVELAND, TEXAS, TX 77328	218
83	TCEQ	TX228316	0.091 mi. S (480 ft.)	RAY COLSON		219
84	SDRD	TX51844	0.093 mi. N (491 ft.)	JAY KALLINA	100 N. WALKER ID#1700740, CLEVELAND, TX 77328	221

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85	TCEQ	TX228300	0.094 mi. S (496 ft.)	FRANK KRAUSKOPF		222
86	SDRD	TX259157	0.095 mi. N (502 ft.)	BLESSING HOMES	501 A ARANDA LN, CONROE, TX 77301	224
87	TCEQ	TX232445	0.1 mi. S (528 ft.)	EMMITT BLAIR	ADDRESS NOT LISTED, CLEVELAND N/A	225
88	SDRD	TX445527	0.106 mi. NNW (560 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	228
89	SDRD	TX445537	0.111 mi. NNW (586 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	229
90	SDRD	TX445536	0.111 mi. NNW (586 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	230
91	SDRD	TX445538	0.113 mi. NNW (597 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	231
92	SDRD	TX357277	0.113 mi. N (597 ft.)	SHARON STILES	18413 SH 105, CLEAVELAND, TX 77328	232
93	SDRD	TX182150	0.114 mi. N (602 ft.)	MARY MENARD	19854 LINDLEY WOODS ROAD, CLEVELAND, TX 77327	233
94	TCEQ	TX228312	0.115 mi. SSW (607 ft.)	DARWIN JOHNSON		234
95	TCEQ	TX228309	0.116 mi. SW (612 ft.)	OLSEN ENG		237
96	SDRD	TX445524	0.116 mi. NNW (612 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	239
97	SDRD	TX336859	0.122 mi. NE (644 ft.)	DILON GONZALEZ	214 LEE TURNER RD, CLEVELAND, TX 77328	240
98	TCEQ	TX228284	0.122 mi. SW (644 ft.)	L G STEVENS		241
99	TCEQ	TX209327	0.124 mi. S (655 ft.)	C E WALDROP		243
100	SDRD	TX339111	0.125 mi. NE (660 ft.)	DARREL HALL	105 LEE TURNER RD, CLEVELAND, TX 77327	245
101	SDRD	TX109776	0.126 mi. WSW (665 ft.)	DUSTIN NEWELL	23675 OLD HWY 105, CLEVELAND, TEXAS, TX 77328	246
102	SDRD	TX371750	0.126 mi. N (665 ft.)	FELIPE GARCIA	19065 STILLWOOD RD., CLEVELAND,TX, TX 77328	247
103	TCEQ	TX228285	0.126 mi. SW (665 ft.)	LARRY BUTLER		248
103	TCEQ	TX228286	0.126 mi. SW (665 ft.)	GENE SHOTHER		250
103	TCEQ	TX228287	0.126 mi. SW (665 ft.)	B L CORVETT		252
103	TCEQ	TX228288	0.126 mi. SW (665 ft.)	ARLENE HODGES		255

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103	TCEQ	TX228289	0.126 mi. SW (665 ft.)	LOUIS BOYKIN		257
104	NWIS	00724488	0.126 mi. SW (665 ft.)	TS-60-47-501		259
104	TWDB	60-47-501	0.126 mi. SW (665 ft.)	MRS. J. I. SMITH		260
105	SDRD	TX70162	0.128 mi. NNE (676 ft.)	DOUGLAS BRAKEBILL	223 GOODCITY LANE, CLEVELAND, TEXAS, TX 77328	264
106	TCEQ	TX228313	0.13 mi. SW (686 ft.)	DAVE SARGUS		265
107	SDRD	TX432175	0.13 mi. N (686 ft.)	JOSE BARDERA	378 N. DUCT CREEK RD, CLEVELAND, TX 77328	267
108	SDRD	TX134987	0.131 mi. NNW (692 ft.)	U.S. ENVIRONMENTAL PROTECTION AGENCY (EP	1776 EAST DAVIS STREET, CONROE, TX 77301	268
108	SDRD	TX134991	0.131 mi. NNW (692 ft.)	U.S. ENVIRONMENTAL PROTECTION AGENCY (EP	1776 EAST DAVIS STREET, CONROE, TX 77301	269
108	SDRD	TX227678	0.131 mi. NNW (692 ft.)	U.S. ENVIRONMENTAL PROTECTION AGENCY	1776 EAST DAVIS ST., CONROE, TX 77301	270
109	SDRD	TX106909	0.131 mi. S (692 ft.)	RAY MARTIN	181 MAGNOLIA RD., CLEVELAND, TX 77328	271
110	TCEQ	TX232440	0.131 mi. S (692 ft.)	BRYAN SEWALL	ADDRESS NOT LISTED, CLEVELAND N/A	272
110	TCEQ	TX232442	0.131 mi. S (692 ft.)	BRYAN SEWALL	ADDRESS NOT LISTED, CLEVELAND N/A	275
111	TCEQ	TX228310	0.132 mi. SW (697 ft.)	BILL SANPACK		278
112	TCEQ	TX209317	0.135 mi. S (713 ft.)	MELODY FULLEN		280
113	TCEQ	TX228311	0.137 mi. S (723 ft.)	JAMES TREECE		282
114	SDRD	TX114081	0.142 mi. SSE (750 ft.)	AMC REO, LLC	188 FM 3083, CONROE, TX	285
115	SDRD	TX80250	0.144 mi. S (760 ft.)	HORTCH, LEE	1050 SECURITY FOREST, CLEVELAND, TX 77328	286
116	SDRD	TX182520	0.146 mi. S (771 ft.)	GLEN BRYANT	20024 HWY 105E, CLEVELAND , TX., TX 77328	287
117	TCEQ	TX232444	0.146 mi. S (771 ft.)	F.F. LARRISON	ADDRESS NOT LISTED, CLEVELAND N/A	288
118	SDRD	TX361793	0.147 mi. S (776 ft.)	NICOLE KUBIN	19330 CEARLEY RD., CLEVELAND ,TX, TX 77328	291
119	SDRD	TX332533	0.149 mi. N (787 ft.)	JIMMY BLOUNT	681 DUCK CREEK RD, CLEVELAND, TX 77338	292
120	SDRD	TX183299	0.151 mi. N (797 ft.)	METROPLEX INDUSTRIES	105E & N WALKER, CUT AND SHOOT, TX	293

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Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
121	SDRD	TX50984	0.151 mi. N (797 ft.)	THOMAS M. DILLARD	19847 LINDLEY WOOD RD., CLEVELAND,TX, TX 77328	294
122	SDRD	TX428743	0.153 mi. NNW (808 ft.)	JEFF & CATRINA FARNSWORTH	11404 KLINE DR., CONROE, TX 77303	295
123	TWDB	60-46-204	0.154 mi. N (813 ft.)	RIGLEY OWENS (KNRO RADIO)		296
124	SDRD	TX440291	0.157 mi. S (829 ft.)	JEAN MARIE BRADER	21441 LISA LANE, CLEVELAND, TX 77328	299
125	SDRD	TX173699	0.16 mi. N (845 ft.)	KOCH,RICK	14030 WILLIS WAUKEGAN, CONROE, TX 77303	300
126	SDRD	TX114080	0.16 mi. SSE (845 ft.)	AMC REO, LLC	188 FM 3083, CONROE, TX	301
127	TCEQ	TX232450	0.161 mi. S (850 ft.)	RONNIE DRAKE	DUCK CREEK RD, CLEVELAND N/A	302
128	SDRD	TX75360	0.165 mi. N (871 ft.)	LARRY MCLAUGHLIN	370 DUCK CREEK RD, CLEVELAND, TX 77328	304
129	SDRD	TX202342	0.167 mi. N (882 ft.)	KENG, CHRIS	716 KELLEY RD., CONROE, TX 77303	305
130	SDRD	TX434444	0.169 mi. N (892 ft.)	ROBERT CRAWFORD	0 SHERWOOD DR., CLEVELAND, TX 77328	306
131	TWDB	60-45-509	0.17 mi. SSE (898 ft.)	HUMBLE CAMPWELL #3		307
132	TCEQ	TX228307	0.172 mi. NW (908 ft.)	L B MIXON		310
133	TCEQ	TX228305	0.173 mi. N (913 ft.)	JEFF BEESON		312
134	SDRD	TX253344	0.173 mi. S (913 ft.)	ANNE HERRIN	110 MAGNOLIE RD, CLEVELAND ,TX., TX 77328	314
135	TCEQ	TX209316	0.174 mi. S (919 ft.)	MARIE LEWIS		315
136	SDRD	TX144063	0.177 mi. W (935 ft.)	DIAMOND SHAMROCK	812 W. DAVIS, CONROE, TX	317
136	SDRD	TX144064	0.177 mi. W (935 ft.)	DIAMOND SHAMROCK	812 W. DAVIS, CONROE, TX	318
136	SDRD	TX144068	0.177 mi. W (935 ft.)	DIAMOND SHAMROCK	812 W. DAVIS, CONROE, TX 78269	319
136	SDRD	TX144069	0.177 mi. W (935 ft.)	DIAMOND SHAMROCK	812 W. DAVIS, CONROE, TX 78269	320
137	TCEQ	TX228306	0.177 mi. S (935 ft.)	LINDA CECIL		321
138	TCEQ	TX228296	0.18 mi. S (950 ft.)	PHILLIP BUSHER		323
139	SDRD	TX185294	0.181 mi. S (956 ft.)	PALACIOS, JOSEPH	120 N MAGNOLIA, CLEVELAND, TX 77328	325
140	SDRD	TX358304	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	326
140	SDRD	TX358306	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	327
140	SDRD	TX358309	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	328

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140	SDRD	TX358312	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	329
140	SDRD	TX358323	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	330
140	SDRD	TX358328	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	331
140	SDRD	TX358334	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	332
140	SDRD	TX358338	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	333
140	SDRD	TX358341	0.183 mi. S (966 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	334
141	TCEQ	TX228308	0.186 mi. N (982 ft.)	WEISIGER WATER WELL		335
142	SDRD	TX202569	0.189 mi. S (998 ft.)	TURNER,DAN	1133 DERK-SMALL ROAD, CLEVELAND, TX 77328	337
143	TCEQ	TX228295	0.192 mi. N (1014 ft.)	A L EDWARDS		338
144	TCEQ	TX228302	0.193 mi. S (1019 ft.)	LOUIS BAKER		341
145	SDRD	TX32155	0.193 mi. NNW (1019 ft.)	EVELYN ROMAN	611 SHELLA DR., CONROE, TX 77303	343
146	SDRD	TX429256	0.195 mi. S (1030 ft.)	OLDE MAGNOLIA PLACE RV PARK	22528 OLD HWY 105 EAST, CLEVELAND, TX 77328	344
147	TCEQ	TX228299	0.195 mi. NNW (1030 ft.)	CONTEX WATER WELLS		345
148	TCEQ	TX228304	0.201 mi. S (1061 ft.)	JACEQULYN SMITH		347
149	SDRD	TX355106	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDURSTRAIL COURT, CONROE, TX 77301	349
149	SDRD	TX355108	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDURSTRAIL COURT, CONROE, TX 77301	350
149	SDRD	TX355110	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDURSTRAIL COURT, CONROE, TX 77301	351
149	SDRD	TX361714	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	352
149	SDRD	TX361715	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE, TX 77301	353
149	SDRD	TX361716	0.202 mi. S (1067 ft.)	LEAM DRILLING	101 INDUSTRIAL COURT, CONROE TX., TX 77301	354
150	TCEQ	TX232441	0.203 mi. S (1072 ft.)	FRED T BOWLING	ADDRESS NOT LISTED, CLEVELAND N/A	355
150	TCEQ	TX232447	0.203 mi. S (1072 ft.)	MILTON DOUDELL	ADDRESS NOT LISTED, CLEVELAND N/A	358
151	SDRD	TX347476	0.203 mi. SSE (1072 ft.)	YERIS VASQUEZ	20011 FOREST DR., NEW CANEY, TX 77357	360
152	SDRD	TX65696	0.208 mi. N (1098 ft.)	SCHRUPP, ROBERT/RUTH	596 N. WALKER ROAD, CLEVELAND, TX 77328	361

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
153	TCEQ	TX209318	0.208 mi. S (1098 ft.)	BARBARA PENA		362
153	TCEQ	TX209319	0.208 mi. S (1098 ft.)	BUTCH GARDNER		364
153	TCEQ	TX209338	0.208 mi. S (1098 ft.)	JOHNIE M JAHOS		366
154	SDRD	TX283051	0.209 mi. N (1104 ft.)	MAURICIO SANTOS	19894 SHERWOOD DR., CLEVELAND, TX 77328	369
155	NWIS	00724568	0.209 mi. SSE (1104 ft.)	TS-60-47-602		370
155	TWDB	60-47-602	0.209 mi. SSE (1104 ft.)	TENNESSEE GAS TRAS- MISSION CO. WELL NO. 4		371
156	SDRD	TX52731	0.214 mi. SSE (1130 ft.)	HILLMAN LEASING	2811 E. DAVIS, CONROE, TX	377
157	SDRD	TX49010	0.216 mi. N (1140 ft.)	SMITH RANDY	331 SCOTT RD, TX	378
158	NWIS	00724688	0.216 mi. S (1140 ft.)	TS-60-47-408		379
158	TWDB	60-47-408	0.216 mi. S (1140 ft.)	SUSANO GUADARRAVA		380
159	SDRD	TX62791	0.217 mi. S (1146 ft.)	SUSANO GUADARRAVA	166A CALIFORINA, CLEVELAND, TEXAS, TX 77331	381
160	SDRD	TX139302	0.239 mi. N (1262 ft.)	W.H."SONNY" BROWN	15101 BETHYL RD, MONTGOMERY, TX 77316	382
160	SDRD	TX164708	0.239 mi. N (1262 ft.)	BROWN, W.H."SONNY"	15101 BETHYL ROAD, MONTGOMERY, TX 77316	383
161	SDRD	TX75098	0.242 mi. W (1278 ft.)	METRY, INC.	700 EAST DAVIS, CONROE, TX 77303	384
162	SDRD	TX452654	0.245 mi. N (1294 ft.)	WILLEM A COETZEE	674 TWIN OAKS DR, CLEVELAND, TX 77328	385
163	SDRD	TX241845	0.246 mi. N (1299 ft.)	HERBERT C. SIMMONS	17940 CEAREY RD, CLEVELAND ,TX., TX 77328	386
164	SDRD	TX78101	0.246 mi. N (1299 ft.)	CARLOS MORALES	23196 HWY 105, SAME, TX 77328	387
165	SDRD	TX276562	0.247 mi. S (1304 ft.)	DEBRA JENKINS	20343 FOREST RESERVE, CLEVELAND, TX 77328	388
166	TCEQ	TX228303	0.251 mi. N (1325 ft.)	CONROE TRUCK AND TRACTOR		389
167	SDRD	TX80580	0.259 mi. N (1368 ft.)	FOREST STAGGS	501 WOOD RIDGE DR, CONRE, TX 77306	391
168	SDRD	TX446819	0.26 mi. S (1373 ft.)	O.Y. YOUNG	15586 HIGHWAY 105, CONROE, TX 77306	392
169	SDRD	TX431618	0.26 mi. SSE (1373 ft.)	CARL CHAVIS	3255 PENNY RD., CLEVELAND, TX 77328	393
170	SDRD	TX200088	0.262 mi. SSE (1383 ft.)	EDGAR MARTINEZ PARRA	25555 CAMBRIDGE BOUEVARD LOT#51, NEW CANEY ,TX, TX 77357	394

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
171	WUD	11594	0.268 mi. NE (1415 ft.)	TEXAS LANDING UTILITIES GOODE CITY		395
172	SDRD	TX439753	0.271 mi. S (1431 ft.)	CRYSTAL SPRINGS WATER COMPANY	CLEVELAND, TX 77328	396
173	SDRD	TX136759	0.274 mi. WSW (1447 ft.)	RAY NEEDHAM	22261 OLD HIGHWAY 105, CLEVELAND, TX	397
174	SDRD	TX444443	0.275 mi. S (1452 ft.)	MARTON HERNANDEZ	2373 CROCKETT MARTIN ROAD, CONROE, TX 77306	398
175	SDRD	TX66344	0.278 mi. S (1468 ft.)	WHIDDON, REYNOLD	319 WOODRIDGE, CONROE, TX 77301	399
176	TCEQ	TX209332	0.28 mi. N (1478 ft.)	MARY WRIGHT		400
176	TCEQ	TX209333	0.28 mi. N (1478 ft.)	OTIS HALES		402
176	TCEQ	TX209334	0.28 mi. N (1478 ft.)	DAVID DEEN		404
176	TCEQ	TX209335	0.28 mi. N (1478 ft.)	L W DUVAK		406
176	TCEQ	TX209336	0.28 mi. N (1478 ft.)	TRAVIS BISHOP		408
176	TCEQ	TX209345	0.28 mi. N (1478 ft.)	J H DAVIS		410
177	SDRD	TX24990	0.281 mi. S (1484 ft.)	ROBERT TINLIN	17326 EAST OLD 105, CONROE, TX 77301	413
178	TCEQ	TX228297	0.282 mi. N (1489 ft.)	DAVID CAYWOOD		414
179	SDRD	TX7479	0.283 mi. N (1494 ft.)	GEORGE STEVENSON	303 N. MAGNOLIA, CONROE, TX 77301	416
180	SDRD	TX75350	0.284 mi. N (1500 ft.)	WELLS, AMBER/GREG	19565 CEARLEY, CLEVELAND, TX 77328	417
181	SDRD	TX270053	0.284 mi. N (1500 ft.)	ROBERT MILLER	700 MC DADE ST., CONROE, TX, TX 77301	418
181	SDRD	TX270515	0.284 mi. N (1500 ft.)	ROBERT MILLER	700 MC DADE ST., CONROE, TX, TX 77301	419
182	TCEQ	TX228294	0.286 mi. N (1510 ft.)	MARY JOHNSON		420
183	SDRD	TX257193	0.288 mi. N (1521 ft.)	JOSE ANTONIO BAHENA	1717 N. DUCK CREEK RD., CLEVELAND , TX, TX 77328	423
184	TWDB	60-45-512	0.292 mi. SSE (1542 ft.)	PAT'S FEED STORE		424
185	SDRD	TX322226	0.302 mi. NNW (1595 ft.)	FRANCISCO SANCHEZ	604 GERRY DR, CONROE, TX 77303	425
186	TWDB	60-47-405	0.304 mi. N (1605 ft.)			426
187	SDRD	TX104473	0.305 mi. NNW (1610 ft.)	CARLA PATE	14505 PERRY ROAD, CONROE, TX 77302	429

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
188	SDRD	TX319416	0.305 mi. S (1610 ft.)	WMI - SECURITY LANDFILL	19248 HIGHWAY 105, CLEVELAND, TX 77328	430
189	SDRD	TX260244	0.305 mi. N (1610 ft.)	ARANDA,SAM	445 ARANDA LANE, CLEVELAND, TX 77328	431
190	SDRD	TX416483	0.306 mi. N (1616 ft.)	CHRIS KENG	716 KELLY ROAD, CONROE, TX 77303	432
191	SDRD	TX162628	0.307 mi. NNW (1621 ft.)	ERIC PATTEN	1198 MIRACLE DR.M, CONROE, TX 77301	433
192	SDRD	TX386892	0.309 mi. S (1632 ft.)	HARRY BURKETT	20186 FOREST RESERVE ST., CLEVELAND, TX 77328	434
193	SDRD	TX332004	0.313 mi. S (1653 ft.)	KEVIN HARLAN	3610 CALIFORNIA, CONROE, TX	435
194	SDRD	TX139532	0.314 mi. N (1658 ft.)	DONNIE KIRKLAND	18918 FM 1484, CONROE, TX, TX 77303	436
195	TCEQ	TX228315	0.314 mi. N (1658 ft.)	PAT WALKER		437
196	SDRD	TX396093	0.317 mi. S (1674 ft.)	AARON FLORES	2385 CROCKETT MARTIN, CONROE, TX 77306	439
197	SDRD	TX144198	0.318 mi. S (1679 ft.)	SUSAN WHEELER	1875 S. WALKER RD, CLEVELAND, TX 77328	440
198	SDRD	TX173619	0.319 mi. S (1684 ft.)	GLASS,JIM	2350 SECURITY FOREST ROAD, CLEVELAND, TX 77328	441
199	SDRD	TX53977	0.319 mi. N (1684 ft.)	RONALD HALES	1137 HALES RD., CLEVELAND, TX 77328	442
200	SDRD	TX9458	0.319 mi. S (1684 ft.)	DRAKE, JOHN/CAROL	450 SOUTH MAGNOLIA, CONROE, TX 77301	443
201	SDRD	TX134521	0.325 mi. SSW (1716 ft.)	AMC REO LLC	188 FM 3083 RD, CONROE, TX 77301	444
201	SDRD	TX134522	0.325 mi. SSW (1716 ft.)	AMC REO LLC	188 FM 3083 RD, CONROE, TX 77301	445
202	SDRD	TX257351	0.327 mi. S (1727 ft.)	KENDALL KESINGER	1940 S. DUCK CREEK RD., CLEVELAND,TX, TX 77328	446
203	SDRD	TX139698	0.33 mi. SSW (1742 ft.)	AMC REO LLC	188 FM 3083 RD, CONROE, TX 77301	447
204	SDRD	TX444426	0.334 mi. S (1764 ft.)	DINGBANG CAO	2394 CROCKETT MARTIN RD., CONROE, TX 77306	448
205	SDRD	TX6217	0.335 mi. S (1769 ft.)	FONSECA, MIKE	400 ALTO, CONROE, TX 77301	449
206	SDRD	TX375124	0.341 mi. N (1800 ft.)	TRACY HAMMETT	19575 CEARLEY ST., CLEVELAND, TX 77328	450
207	SDRD	TX210461	0.345 mi. N (1822 ft.)	BECKY TAYLOR / CAPPS	853 KINSMAN RD., CONROE, TX 77328	451
208	SDRD	TX357999	0.354 mi. N (1869 ft.)	FROYLON PEREZ	820 BIG BUCK, CLEVELAND,TX, TX 77328	452
209	SDRD	TX166754	0.357 mi. NNW (1885 ft.)	MICHAEL DODD	810 WHIPPOWILL, CONROE, TX, TX 77303	453
210	SDRD	TX337622	0.359 mi. S (1896 ft.)	PEDRO ZAPATA VASQUEZ	19128 SUFFOLK, NEW CANEY, TX	454

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
211	SDRD	TX121568	0.359 mi. S (1896 ft.)	GILBERT VARGAS	19793 SECURITY WAY, CLEVELAND, TX 77328	455
212	SDRD	TX48802	0.36 mi. S (1901 ft.)	JAMES KELIEHOR	2266 S. WALKER RD., CLEVELAND, TX 77328	456
212	WUD	11633	0.36 mi. S (1901 ft.)	CHEESEMAKERS WAREHOUSE		457
213	SDRD	TX363780	0.361 mi. SSE (1906 ft.)	RED DIAMOND DISPOSAL	3995 FM 1485, CONROE, TX 77306	458
214	TCEQ	TX228301	0.362 mi. N (1911 ft.)	JAMES HARDCASTLE		459
215	SDRD	TX230460	0.366 mi. S (1932 ft.)	WMI - SECURITY RDF	19248 HWY 105, CLEVELAND, TX 77327	461
216	SDRD	TX53971	0.366 mi. N (1932 ft.)	GLEN BRYANT	925 N. WALKER RD., CLEVELAND, TX 77328	462
217	SDRD	TX178294	0.368 mi. NNW (1943 ft.)	DON THIGPEN	17423 SADDLE CREEK, NEW CANEY, TX 77357	463
218	TWDB	60-47-609	0.371 mi. N (1959 ft.)	FOSTER LUMBER CO. WELL #5		464
219	SDRD	TX30516	0.374 mi. N (1975 ft.)	RONALD ASHWORTH	133 STIDHAM RD., CONROE, TX 77302	469
220	SDRD	TX275660	0.379 mi. SSE (2001 ft.)	DONALD GREENWAY	5070 PENNY RD., CLEVELAND, TX 77328	470
221	TCEQ	TX209315	0.38 mi. S (2006 ft.)	RONNIE DRAKE		471
222	SDRD	TX172900	0.387 mi. NNW (2043 ft.)	DON THIGPEN	17423 SADDLE CREEK, NEW CANEY, TX 77357	473
223	NWIS	00724714	0.39 mi. N (2059 ft.)	TS-60-47-607		474
223	TWDB	60-47-607	0.39 mi. N (2059 ft.)	FOSTER LUMBER CO. WELL #2		475
224	TCEQ	TX228314	0.39 mi. N (2059 ft.)	IRENE HALL		479
225	SDRD	TX160270	0.393 mi. S (2075 ft.)	MARTIN RAMOS	420 S. MAGNOLIA DR., CONROE, TX 77301	481
226	SDRD	TX193328	0.394 mi. S (2080 ft.)	BOBBYE COTTON	7390 ADCOCK ACRES DR., CONROE, TX 77303	482
227	SDRD	TX112484	0.396 mi. S (2091 ft.)	ROY VENZER	LOT # 26 SECURITY WAY, CLEVELAND , TX., TX 77328	483
228	TCEQ	TX218093	0.397 mi. N (2096 ft.)	E V BRYANT		484
229	SDRD	TX103297	0.403 mi. S (2128 ft.)	WMI - SECURITY LANDFILL	19248 HIGHWAY 105, CLEVELAND, TX 77328	486
230	SDRD	TX174302	0.404 mi. S (2133 ft.)	R. W. WALKER	18589 SOLOMON, CLEVELAND, TX 77327	487
231	SDRD	TX413811	0.404 mi. N (2133 ft.)	ROBERT RONE	351 SCOTT ROAD, CLEVELAND, TX 77328	488
232	SDRD	TX121643	0.404 mi. N (2133 ft.)	LEWIS TEAL	1000 LEE TURNER, CLEVELAND,TX, TX 77378	489

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
233	SDRD	TX269090	0.411 mi. N (2170 ft.)	TURBODRILL	1125 BEACH AIRPORT RD., CONROE, TX 77301	490
234	SDRD	TX8249	0.418 mi. N (2207 ft.)	HAMMETT, BEVERLY/JERRY	PIONEER LANE-SECURITY, CLEVELAND, TX 77328	491
235	SDRD	TX42887	0.418 mi. SSE (2207 ft.)	CRUZ, CARLOS	13344 SANDCHESTER, CONROE, TX 77306	492
236	WUD	9887	0.42 mi. ENE (2218 ft.)	CORNERSTONE CHURCH		493
237	SDRD	TX2741	0.42 mi. ENE (2218 ft.)	CORNERSTONE CHURCH	27453 HWY 105 EAST, CLEVELAND, TX 78711	494
238	TCEQ	TX209311	0.422 mi. N (2228 ft.)	HENRY LEWIS		495
239	TCEQ	TX209344	0.424 mi. S (2239 ft.)	EMMITT BLAIR		497
240	TCEQ	TX228298	0.431 mi. N (2276 ft.)	NEAL WALTHER		500
241	SDRD	TX322508	0.431 mi. SSE (2276 ft.)	JOEY WESTBROOK	25741 TALLOW VISTA, CLEVELAND, TX 77328	502
241	SDRD	TX322509	0.431 mi. SSE (2276 ft.)	JOEY WESTBROOK	25741 TALLOW VISTA, CLEVELAND, TX 77328	503
242	SDRD	TX240421	0.437 mi. N (2307 ft.)	TOLEDO, ANDRES	1619 PIONEER LANE DRIVE, CLEVELAND, TX 77328	504
243	SDRD	TX221811	0.438 mi. N (2313 ft.)	NANCY MEDINA	20316 SHERWOOD, CLEVELAND, TX 77328	505
244	TWDB	60-47-606	0.439 mi. NNW (2318 ft.)	FOSTER LUMBER CO. WELL #1		506
245	SDRD	TX80249	0.444 mi. SSE (2344 ft.)	JOSE MENDOZA	3712 WHITE OAK DR, CONROE, TX 77301	509
246	SDRD	TX53061	0.448 mi. SSE (2365 ft.)	GARY MILLICAN	9489 FOSTERS BEND, CLEVELAND, TX 77327	510
247	SDRD	TX277566	0.45 mi. S (2376 ft.)	ANDREWS, FRED	413 TRADE WIND COURT, MONTGOMERY, TX 77316	511
248	NWIS	00724728	0.453 mi. NNW (2392 ft.)	TS-60-47-605		512
248	TWDB	60-47-605	0.453 mi. NNW (2392 ft.)	FOSTER LUMBER CO. WELL #4		513
248	TWDB	60-47-608	0.453 mi. NNW (2392 ft.)	FOSTER LUMBER CO. WELL #3		518
249	SDRD	TX230459	0.461 mi. S (2434 ft.)	WMI - SECURITY RDF	19248 HWY 105, CLEVELAND, TX 77327	521
250	SDRD	TX445517	0.466 mi. NNW (2460 ft.)	US EPA	1776 E. DAVIS, CONROE, TX 77301	522

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
251	SDRD	TX164678	0.472 mi. S (2492 ft.)	LESLIE YOUNG	3650 CALIFORNIA AVE, CLEVELAND, TX 77328	523
252	SDRD	TX445522	0.472 mi. NNW (2492 ft.)	US EPA	1776 E. DAVIS ST., CONROE, TX 77301	524
253	SDRD	TX243162	0.476 mi. SSE (2513 ft.)	EDWIN EK	7000 PENNY RD, CLEVELAND ,TX., TX 77328	525
254	WUD	11296	0.485 mi. SSE (2561 ft.)	TENARIS CONROE		526
255	SDRD	TX4804	0.486 mi. N (2566 ft.)	ROBERT SUTCH	10660 CHAMPION VILLAGE RD., CONROE, TX 77303	527
256	TWDB	60-46-601	0.498 mi. S (2629 ft.)	BERLIE WEST		528

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NWIS United States Geological Survey National Water Information System

VERSION DATE: 12/14/16

This USGS National Water Information System database only includes groundwater wells. The USGS defines this well type as: A hole or shaft constructed in the earth intended to be used to locate, sample, or develop groundwater, oil, gas, or some other subsurface material. The diameter of a well is typically much smaller than the depth. Wells are also used to artificially recharge groundwater or to pressurize oil and gas production zones. Additional information about specific kinds of wells should be recorded under the secondary site types or the Use of Site field. Underground waste-disposal wells should be classified as waste-injection wells.

SDRD Submitted Drillers Report Database

VERSION DATE: 11/07/17

This Texas Water Development Board database was created from the online Texas Well Report Submission and Retrieval System (A cooperative TDLR, TWDB system) that registered water-well drillers use to submit their required reports. The system was started in February 2001 and is optional for the drillers to use.

TCEQ Texas Commission on Environmental Quality Water Wells

VERSION DATE: NR

The Texas Commission on Environmental Quality (TCEQ) maintains a filing system of plotted and unnumbered water wells. Plotted water wells are filed according to the County indicated by the driller and the state well number assigned by State of Texas personnel. Given the available location information provided by the driller, personnel identify where the approximate well location should be. After well placement a state well number is assigned indicating that the well lies within a specific 2.5' section of a 7.5' quadrangle. This method allows for quicker, more refined, reference when researching a specific area. Unnumbered water wells have not been assigned a state well number. This can occur for a variety of reasons; however it does not mean the well cannot be accurately spotted. Unnumbered water well records are filed according to County and are often broken up by year or by a span of years.

TWDB Texas Water Development Board Groundwater Database

VERSION DATE: 11/07/17

The Texas Water Development Board Groundwater Database contains information for more than 123,500 sites in Texas including data on water wells, springs, oil/gas tests, water levels, and water quality. The purpose of the Board's data collection effort over the years has been to gain representative information about aquifers in the state in order to do water planning. It is very important, however, to realize that the wells in the database represent only a small percentage of the wells that actually exist in Texas. A registered water well driller is required by law to send in a report to the State for every well that is drilled. This requirement began in 1965, and we estimate that approximately 500,000 wells have been drilled in Texas since then. Of the 1,000,000 plus water wells drilled in Texas over the past 100 years, more than 130,000 have been inventoried and placed into the TWDB groundwater database. State well numbers have been assigned to these based on their location within numbered 7 1/2 minute quadrangles formed by lines of latitude and longitude. This database contains well information including location, depth, well type, owner, driller, construction and completion data.

WUD Water Utility Database

VERSION DATE: NR

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

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GeoPlus Oil & Gas Report

Satellite view

Target Property:

SH 105: From 10th Street in Conroe to Business 105
Conroe, Montgomery County, Texas

Prepared For:

Jacobs-Fort Worth

Order #: 72590
Job #: 155846
Project #: WHXK2805
Date: 02/27/2018

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Target Property Summary

Target Property Information

SH 105: From 10th Street in Conroe to Business 105
Conroe, Texas

Coordinates
Area

USGS Quadrangle
Conroe, TX
Cut And Shoot, TX
Fostoria, TX

Geographic Coverage Information

County/Parish: Montgomery (TX) , San Jacinto (TX) , Liberty (TX)
ZipCode(s):
Conroe TX: 77301, 77303, 77306
Cleveland TX: 77328

Radon
* Target property is located in Radon Zone 3.
Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

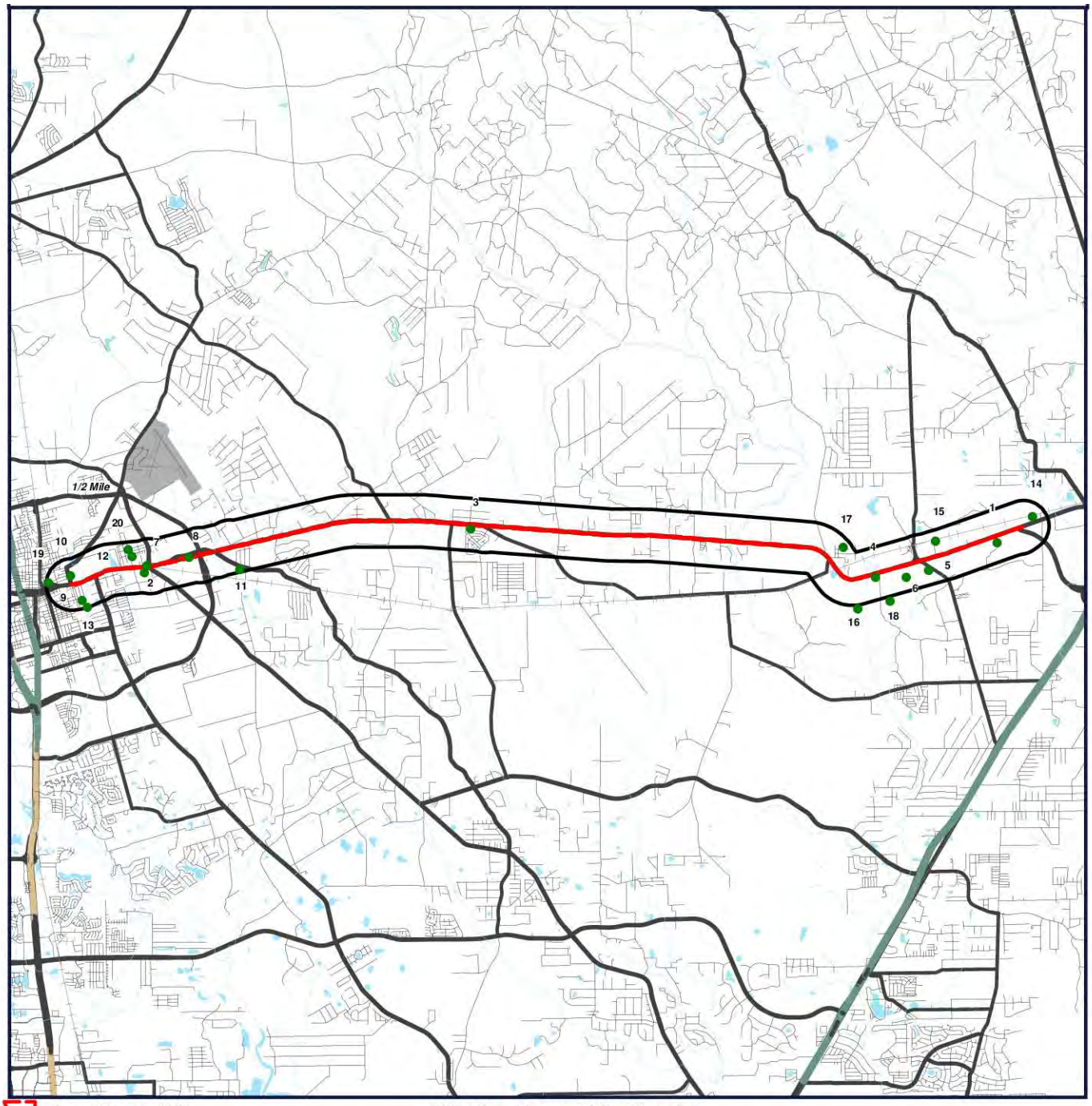
Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OGWELLS	0.5000	2	6	1	11	NS	NS	20
SUB-TOTAL		2	6	1	11	0	0	20
TOTAL		2	6	1	11	0	0	20

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS MAP



Target Property (TP)

Surface Location

SH 105: From 10th Street in Conroe to Business 105 Conroe, Texas

N
W E
S

0' 8000' 16000' 24000'

SCALE: 1" = 16000'

Click here to access Satellite view

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
1	OGWELLS	305562	TP		
2	OGWELLS	304964	0.009 mi. N (48 ft.)		
3	OGWELLS	304599	0.04 mi. N (211 ft.)		
4	OGWELLS	305573	0.054 mi. NNW (285 ft.)		
5	OGWELLS	305524	0.085 mi. SSE (449 ft.)		
6	OGWELLS	305525	0.091 mi. SSE (480 ft.)		
7	OGWELLS	304965	0.115 mi. NNW (607 ft.)		
8	OGWELLS	304657	0.115 mi. NNW (607 ft.)		
9	OGWELLS	304710	0.198 mi. SSE (1045 ft.)		
10	OGWELLS	305077	0.308 mi. N (1626 ft.)		
11	OGWELLS	1197008	0.311 mi. SSE (1642 ft.)		
12	OGWELLS	304658	0.344 mi. N (1816 ft.)		
13	OGWELLS	304689	0.363 mi. SSE (1917 ft.)		
14	OGWELLS	305563	0.371 mi. NNE (1959 ft.)		
15	OGWELLS	305526	0.42 mi. NNW (2218 ft.)		
16	OGWELLS	305536	0.442 mi. S (2334 ft.)		
17	OGWELLS	305529	0.448 mi. NE (2365 ft.)		
18	OGWELLS	305522	0.463 mi. SSE (2445 ft.)		
19	OGWELLS	304695	0.491 mi. WNW (2592 ft.)		
20	OGWELLS	304659	0.495 mi. N (2614 ft.)		

Oil & Gas Well Report

MAP ID	SURFACE ID	API #	WELL TYPE #	LATITUDE	LONGITUDE
1	305562	29131660	DRY HOLE	30.328861000	-95.139495000
2	304964	339	DRY HOLE	30.320337000	-95.420951000
3	304599	339	PERMITTED LOCATION	30.332839000	-95.313416000
4	305573	33930961	DRY HOLE	30.318978000	-95.179783000
5	305524	339	DRY HOLE	30.320924000	-95.162189000
6	305525	339	DRY HOLE	30.319017000	-95.169614000
7	304965	33930627	DRY HOLE	30.322233000	-95.420365000
8	304657	339	DRY HOLE	30.324617000	-95.406240000
9	304710	339	DRY HOLE	30.312451000	-95.441672000
10	305077	339	DRY HOLE	30.319506000	-95.445505000
11	1197008	33900117	DRY HOLE	30.321277000	-95.389564000
12	304658	339	DRY HOLE	30.324880000	-95.425221000
13	304689	339	CANCELED LOCATION	30.310484000	-95.439803000
14	305563	29131362	DRY HOLE	30.336429000	-95.127950000
15	305526	33930455	DRY HOLE	30.329388000	-95.159833000
16	305536	339	CANCELED LOCATION	30.309917000	-95.185529000
17	305529	339	DRY HOLE	30.327563000	-95.190286000
18	305522	33930526	DRY HOLE	30.312169000	-95.174768000
19	304695	339	CANCELED LOCATION	30.317406000	-95.452880000
20	304659	339	DRY HOLE	30.326986000	-95.426296000

OGWELLS Oil and Gas Wells

VERSION DATE: 05/16/17

This oil and gas well data set is provided by the Geographic Information System of the Railroad Commission of Texas (the Commission). The data set includes oil and gas well records dating back to the early 1960's, some wells prior to the 1960's are also included with with no API and/or a historical API number in place. The Commission shall not be held liable for use of this data, which is provided as a public service for informational purposes only. Users are responsible for checking the accuracy, completeness, currency, and/or suitability of this data set themselves.

Legend

- Benefitted
- Impacted
- Non-impacted
- Proposed Barriers
- Existing ROW
- Proposed ROW
- Named Streams and Rivers
- County Boundary

SH 105
Exhibit 6: Noise Receiver and Barrier Locations
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet

R-4A

PT 62+16.88

Stewarts Creek

N 62° 26' 45.04" E

65+00

70+00

75+00

80+00

E Davis St

85+00

90+00

PC 87+75.20

E Santa Fe St

Porter Rd

Industrial Ln

Industrial Ct

Hopkins St

Legend

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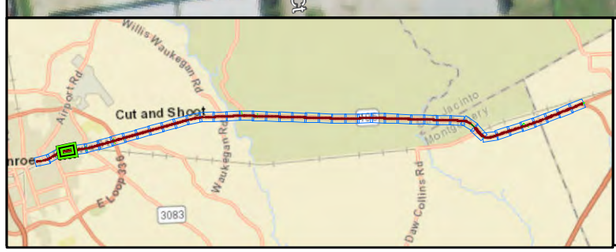
- County Boundary

SH 105

Exhibit 6: Noise Receiver and Barrier Locations
From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet



Legend

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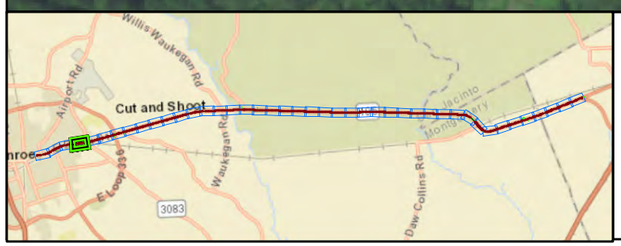
- County Boundary

SH 105

Exhibit 6: Noise Receiver and Barrier Locations From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet



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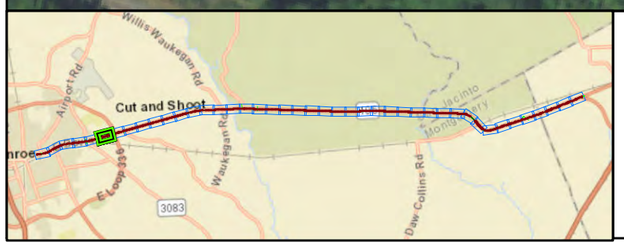

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SH 105

Exhibit 6: Noise Receiver and Barrier Locations From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet

State Loop 336

F-M 1485

Old Highway 105 E

West Fork Crystal Creek

R-12

180+00

E Davis St

185+00

State Hwy 105

190+00

PC 192+81.41

PT 193+25.92

195+00

Highway 105 E

200+00

205+00

210+00

Douget Rd

N Loop 336 E

Fm 1485 Rd

Short St

Legend

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SH 105

Exhibit 6: Noise Receiver and Barrier Locations From 10th Street in Conroe to Business 105

Montgomery, San Jacinto, and Liberty Counties, Texas

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From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

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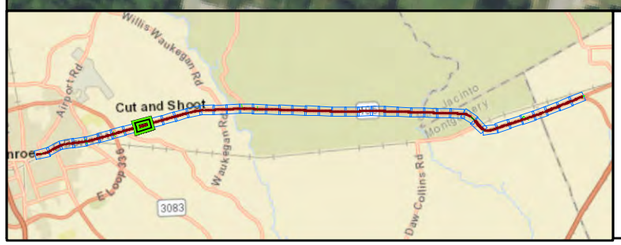

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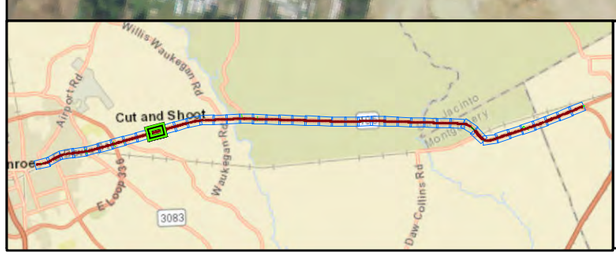

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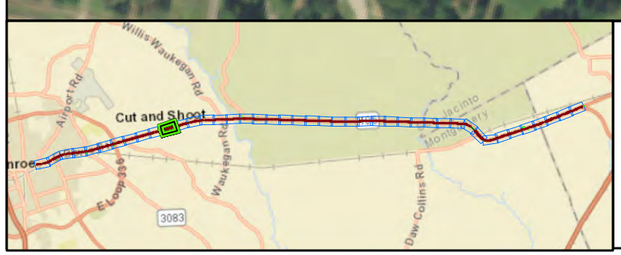

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Montgomery, San Jacinto, and Liberty Counties, Texas

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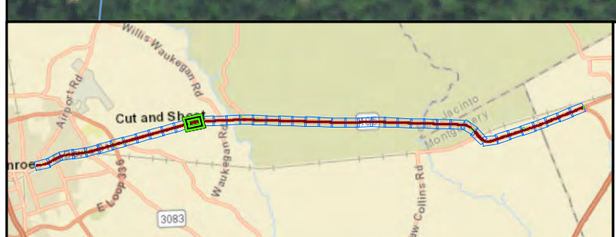
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet

Rollinghills Rd
Millmac Rd
Fm 2432 Rd
Highway 105 E
East Fork Crystal Creek
R-34
R-35
R-36
R-37
R-38
R-39
R-40
R-41
R-42
325+00
330+00
335+00
340+00
345+00
350+00
PC 329+50



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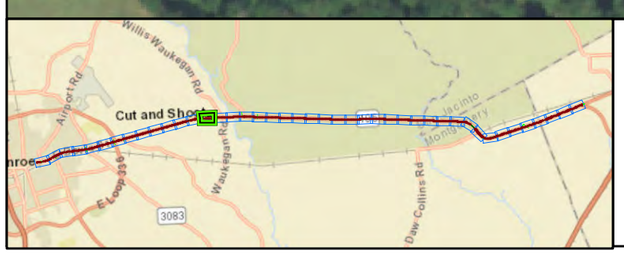

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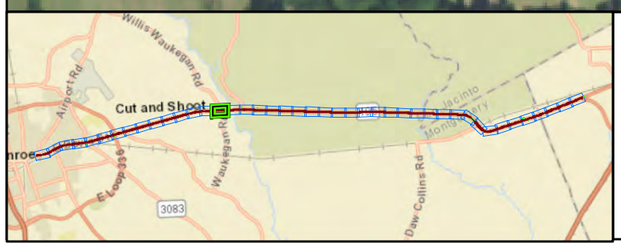

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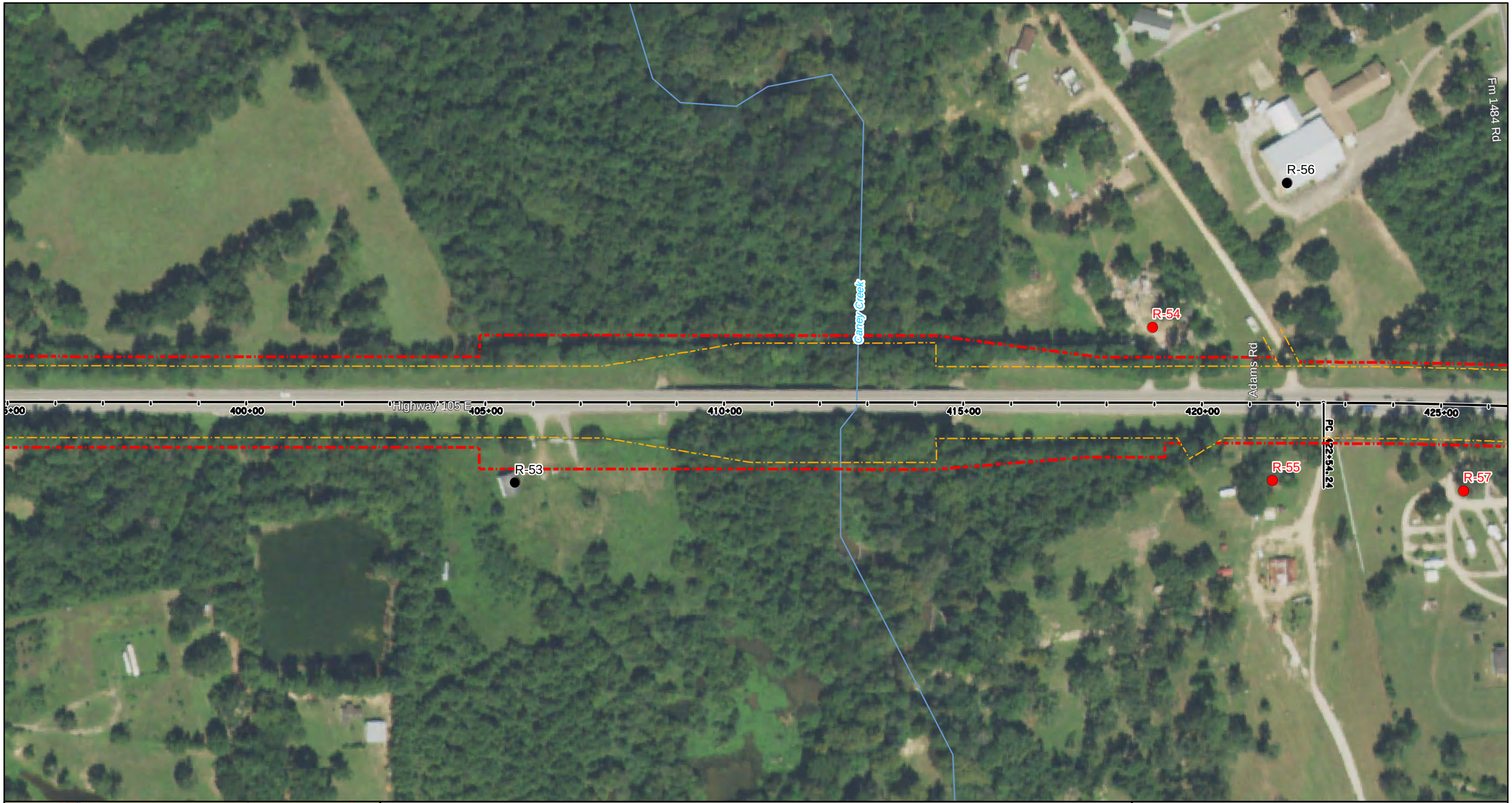

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Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet

R-56

Fm 1484 Rd

Kelley Rd

Adams Rd

State Hwy 105

Highway 105 E

420+00

425+00

430+00

435+00

440+00

445+00

450+00

PC 422+54.24

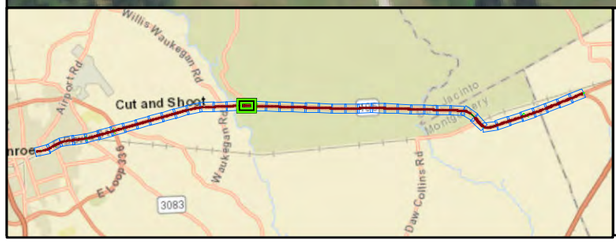
PT 430+68.92

Cagle Branch

R-55

R-57

R-58



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Montgomery, San Jacinto, and Liberty Counties, Texas

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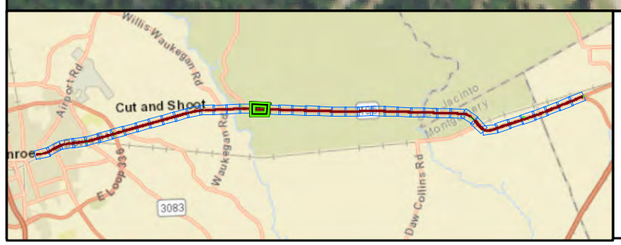

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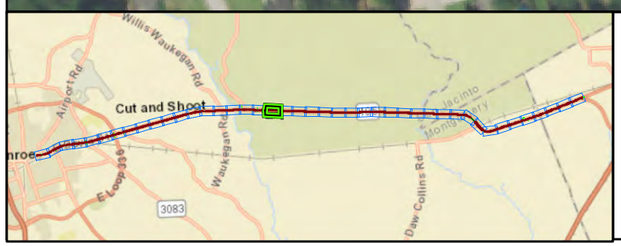

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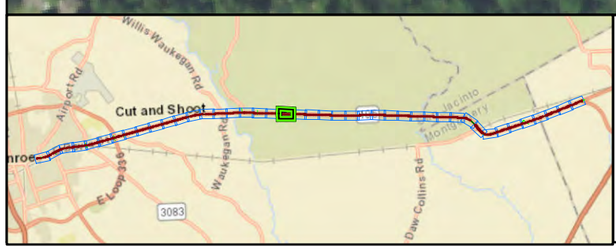

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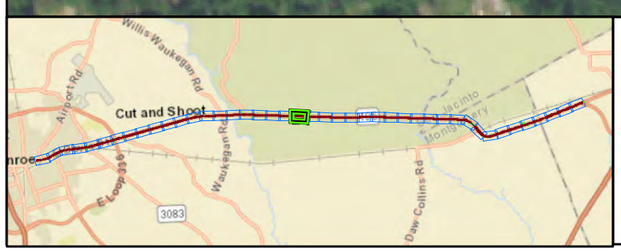

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Montgomery, San Jacinto, and Liberty Counties, Texas

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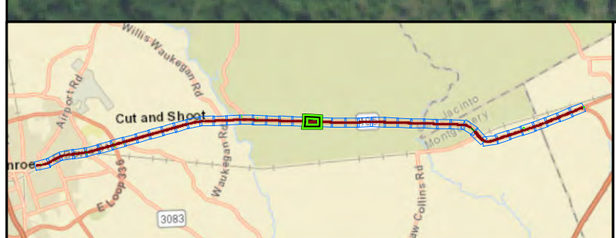

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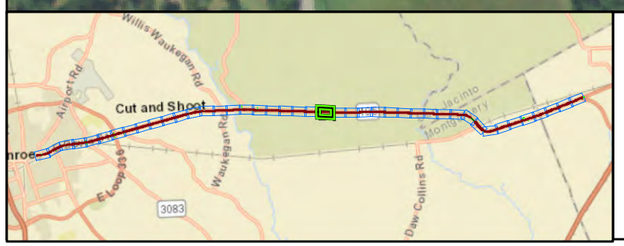

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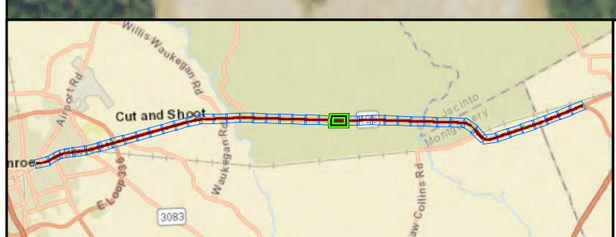

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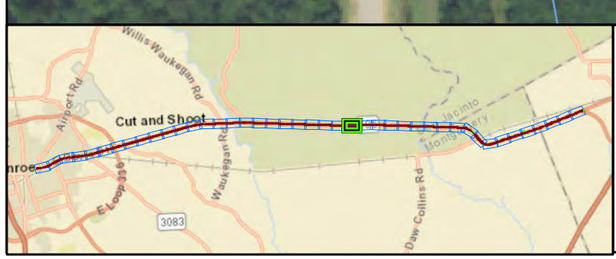

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From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet

Lindley Woods St

Pioneer Ln

R-96

R-97

R-156

R-98

R-101

N 87° 44' 36.27" E

Highway 105

635+00

640+00

645+00

650+00

655+00

660+00

665+00

PC 657+01.49

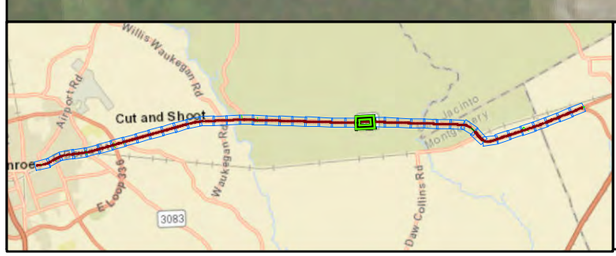
R-100

R-102

R-99

Sheila St

Security Forest Dr



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Montgomery, San Jacinto, and Liberty Counties, Texas

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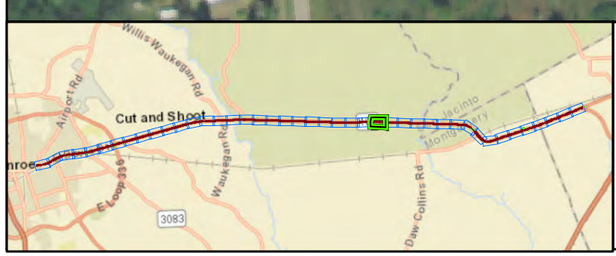

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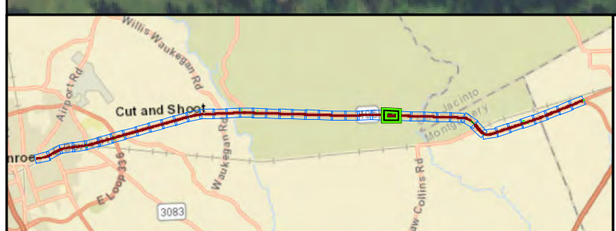

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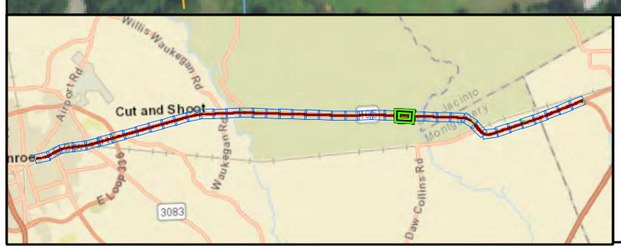

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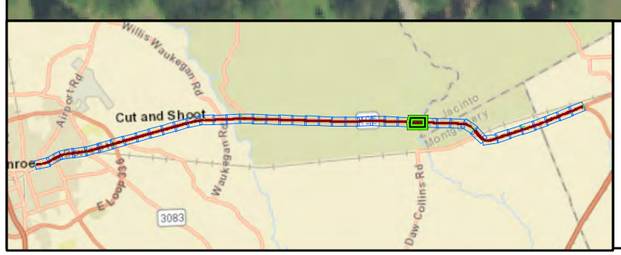

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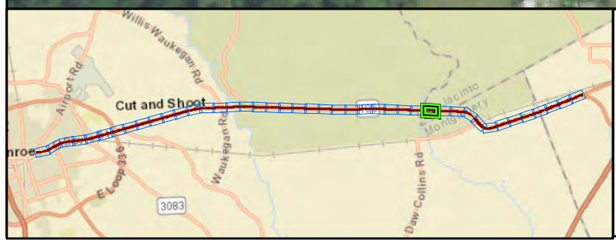

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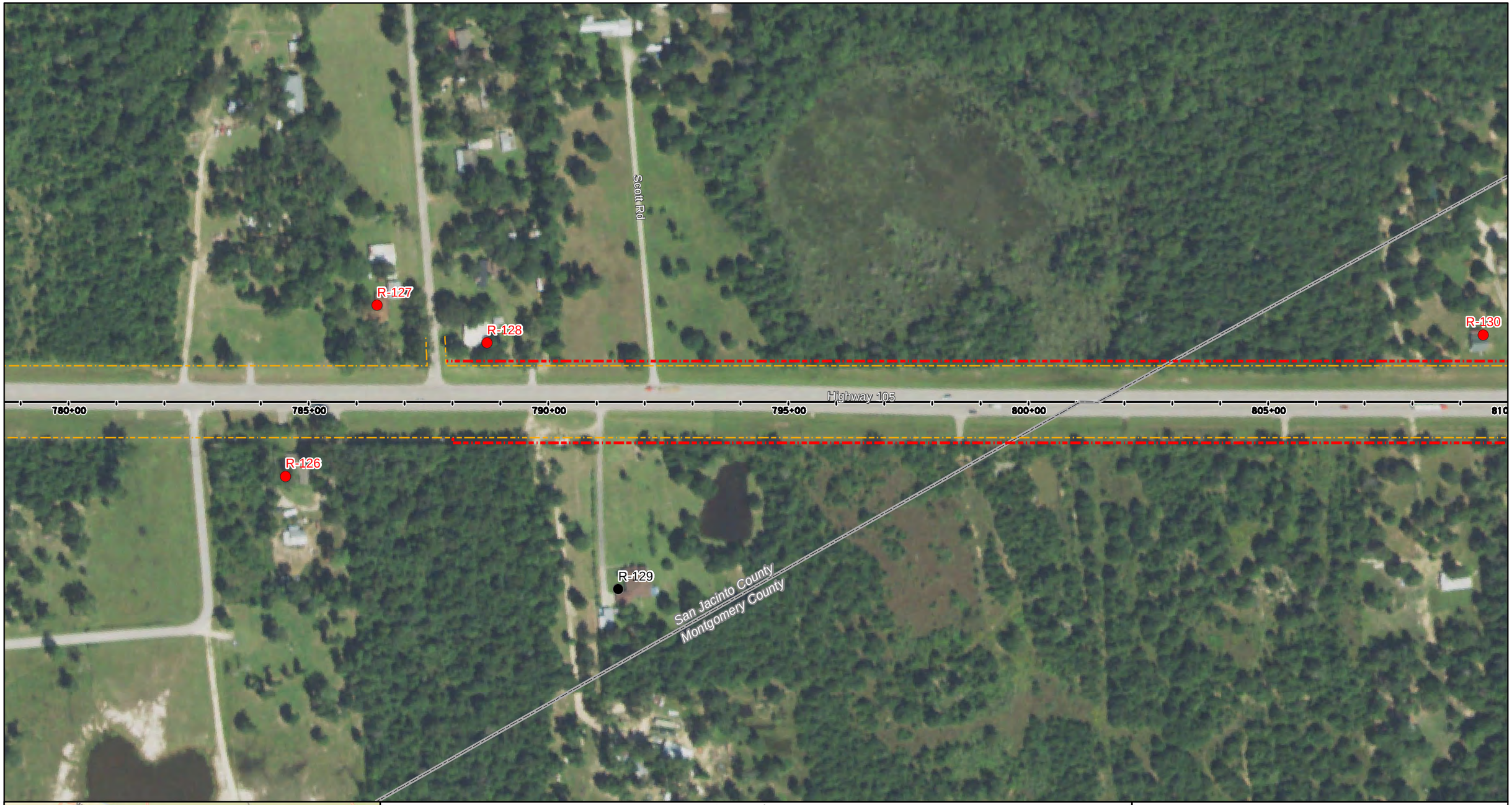

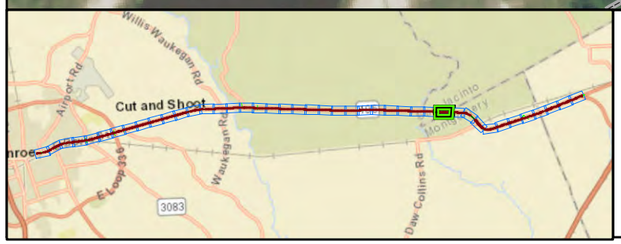

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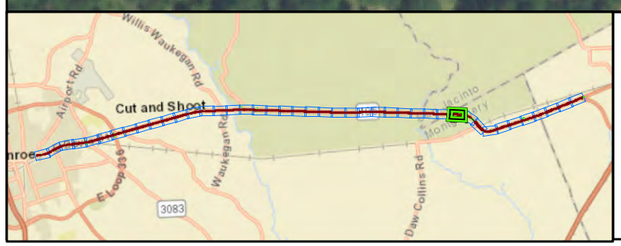
- County Boundary

SH 105
Exhibit 6: Noise Receiver and Barrier Locations
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

0 125 250 500 Feet



Legend

- Benefitted
- Impacted
- Non-impacted
- Proposed Barriers
- Existing ROW
- Proposed ROW
- Named Streams and Rivers
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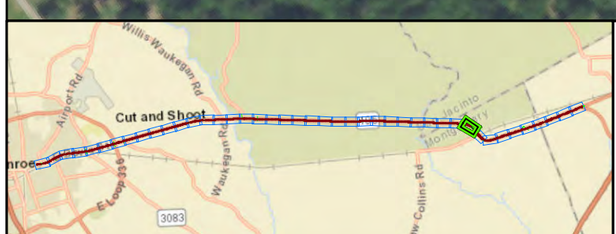

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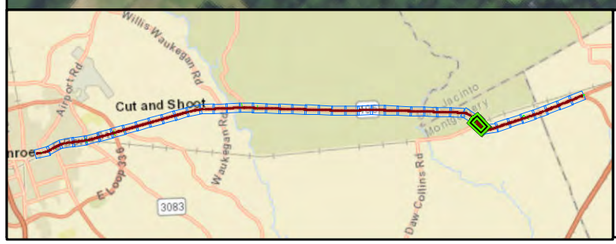
0 125 250 500 Feet

R-139
R-141
R-142
R-138
R-137
R-140
Goode City Ln
Old Highway 105
Highway 105
State Hwy 105
PT 851+75.05
855+00
860+00
865+00
870+00
PC 870+12.78
875+00
880+00
S 39° 22' 12.06" E



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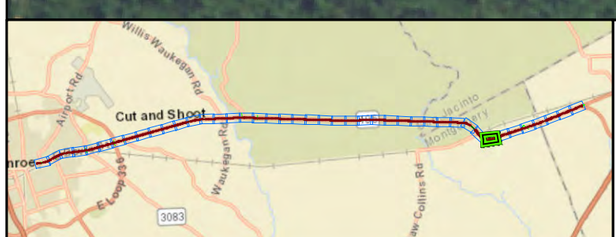
0 125 250 500 Feet

875+00
880+00
885+00
890+00
895+00
900+00
905+00
Goode City Ln
Highway 105
PRC 89+39.20
PT 892+53.53
Jayhawker Creek
R-142
R-143
R-144
R-145



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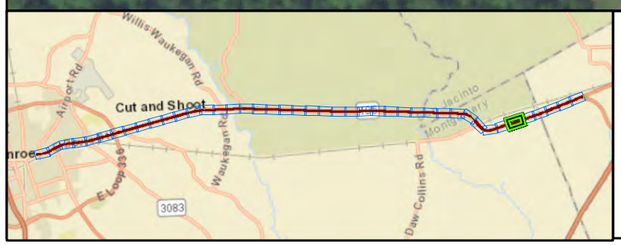

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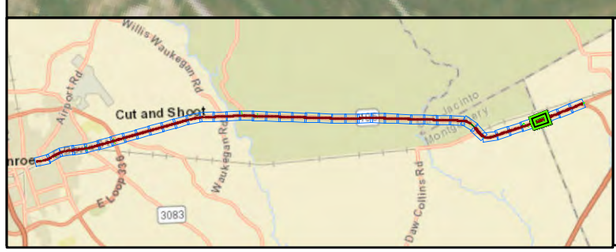

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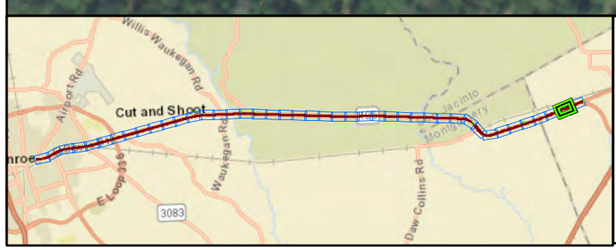

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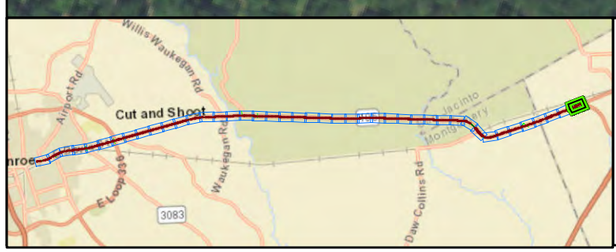

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0 125 250 500 Feet

Appendix G – Agency Coordination

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HOUSTON-GALVESTON AREA COUNCIL
PO Box 22777 • 3555 Timmons Ln. • Houston, Texas 77227-2777• 713/627-3200

April 14, 2010

The Honorable Deirdre Delisi, Chairperson
Texas Transportation Commission
Texas Department of Transportation
125 East 11th Street
Austin, Texas 78701

Re: SH 105 from LP 336 to Cleveland Bypass

Dear Chairperson Delisi:

I am writing to bring your attention to a serious safety concern on SH 105 in Montgomery County. The section of the roadway from LP 336 west of Conroe to US 59 in Cleveland experiences significantly higher crash rates than comparable state facilities. The attached report details the crash history between 2003 and 2008. H-GAC's analysis shows that the crash rate for this segment of SH 105 (176.8 crashes per 100 million vehicle miles of travel) is almost double the crash rate for comparable state highways (92.2crashes per 100 million vehicle miles of travel). The data reflect 29 fatalities in the 18 mile segment.

Unlike other segments of SH 105, the segment east of Conroe and just west of Cleveland, where the SH 105 bypass begins, is a 2-lane roadway. This segment has narrow shoulders with open ditches on either side. Average daily traffic in 2008 was approximately 11,000 vehicles, a 20% increase from 2000.

I am aware that transportation funding resources are limited within the State. Nevertheless, I urge the Commission to explore any opportunity to address safety issues on SH 105 between Conroe and Cleveland. I would be pleased to facilitate further discussions with the cities and counties served by this section of SH 105 and examine opportunities to work cooperatively with TxDOT to address these safety concerns.

Sincerely,

Alan C. Clark
MPO Director

AC/lm

Attachment

Cc: Honorable Lang Thompson, Mayor, Town of Cut and Shoot
Honorable J. D. Roberts, Alderman, Town of Cut and Shoot
Honorable Jill Barnett Kirkonis, Mayor, City of Cleveland

Honorable Web Melder, Mayor, City of Conroe
Honorable Ed Rinehart, Montgomery County, Precinct 4
Honorable Craig Doyle, Montgomery County, Precinct 2
Mr. Amadeo Saenz, P.E., TxDOT
Mr. Ned Holmes, Texas Transportation Commission
Mr. Delvin Dennis, P.E., TxDOT – Houston District
Mr. James Koch, P.E., TxDOT – Houston District
Mr. Rakesh Tripathi, P.E., TxDOT – Houston District

SH 105 Vehicle Crash Summary

March 8, 2010

The following information summaries motor vehicle crashes incidents along State Highway 105 (SH 105) from Loop 336, in Conroe, TX, to US Highway 59, in Cleveland, TX, from 2003 to 2008 (hereafter, "the roadway"). Only geo-coded, TxDOT Reportable crashes resulting in at least one fatality, injury, or property damage in excess of $1,000 are included in the summary. The crashes selected were geographically chosen based on crash geo-coding conducted by TxDOT.

The total length of the roadway is approximately 18.7 miles; with an estimated 202,998 vehicle miles travelled (VMT) based on 2006 TxDOT saturated counts. The crash rate for the roadway is **176.8 crashes per 100 Million VMT (100MVMT)**. The 2007 State average for a rural 2 lane-2 way road was 101.7 crashes per 100MVMT, and for a rural state highway: 92.23 crashes per 100MVMT.

Of the 785 crashes that occurred along the roadway, 446 crashes (56.82%) occurred within 2.57 miles of Loop 336 in Conroe, TX. This portion of the roadway has a crash rate of 647.1 crashes per 100MVMT.

Total Crashes, Fatalities, Injuries, & Impaired Driving Crashes

YEAR	Crashes	Fatalities	Incapacitating	Non-Incapacitating	Possible	DWI-ALCOHOL	DUI-DRUGS
2003	146	2	22	32	51	8	3
2004	110	7	18	22	38	6	0
2005	123	3	12	24	34	7	2
2006	135	3	9	19	54	4	4
2007	134	5	27	29	39	5	2
2008	137	9	18	27	52	5	3
TOTAL	**785**	**29**	**106**	**153**	**268**	**35**	**14**
AVG	**131**	**5**	**18**	**26**	**45**	**6**	**2**

From 2006 to 2008, the number of fatalities reported along the roadway has nearly doubled annually. Over the same period, there have been marginal increases in the number of impaired driving crashes.

Intersection-Related Crashes

Intersection Related	Crashes	PCT
INTERSECTION/INTERSECTION-RELATED	343	43.7%
NON INTERSECTION	353	45.0%
DRIVEWAY ACCESS	89	11.3%
TOTAL	785	

55% of the crashes along the roadway were intersection or driveway access related.

Manner of Collision Totals & Percentages

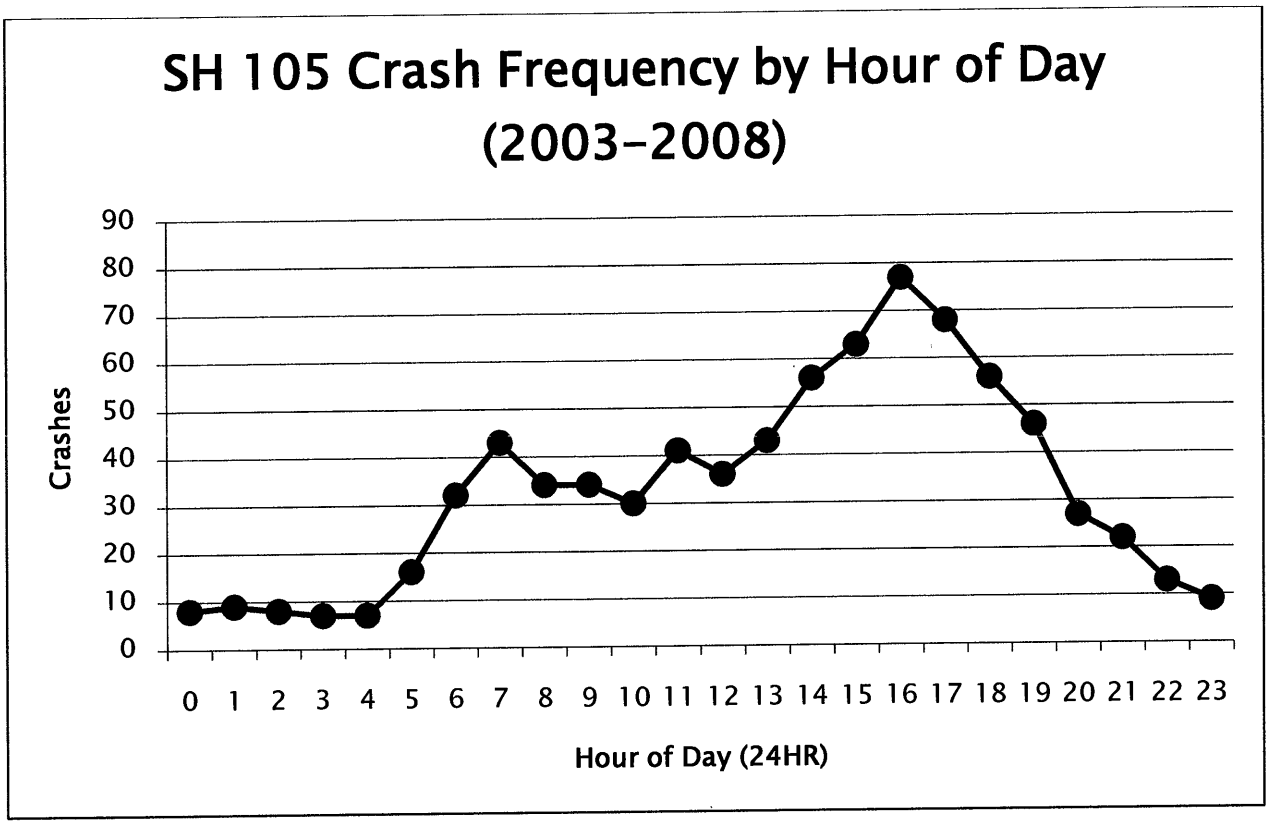
Collision Type	Crashes	PCT
SAME DIRECTION: ONE STRAIGHT-ONE STOPPED	206	26.2%
SAME DIRECTION: BOTH GOING STRAIGHT-REAR END	147	18.7%
ANGLE - BOTH GOING STRAIGHT	100	12.7%
ONE MOTOR VEHICLE: VEHICLE GOING STRAIGHT	92	11.7%
OPPOSITE DIRECTION: ONE STRAIGHT-ONE LEFT TURN	57	7.3%
ANGLE - ONE STRAIGHT-ONE LEFT TURN	39	5.0%
OPPOSITE DIRECTION: BOTH GOING STRAIGHT	33	4.2%
SAME DIRECTION: BOTH GOING STRAIGHT-SIDESWIPE	26	3.3%
SAME DIRECTION: ONE STRAIGHT-ONE LEFT TURN	22	2.8%
SAME DIRECTION: ONE STRAIGHT-ONE RIGHT TURN	15	1.9%
ANGLE - ONE STRAIGHT-ONE RIGHT TURN	12	1.5%
SAME DIRECTION: BOTH LEFT TURN	6	0.8%
ANGLE - ONE LEFT TURN-ONE STOPPED	5	0.6%
OPPOSITE DIRECTION: ONE BACKING-ONE STOPPED	4	0.5%
OPPOSITE DIRECTION: ONE STRAIGHT-ONE STOPPED	4	0.5%
ONE MOTOR VEHICLE: VEHICLE TURNING LEFT	3	0.4%
ONE MOTOR VEHICLE: VEHICLE TURNING RIGHT	3	0.4%
OPPOSITE DIRECTION: ONE RIGHT TURN-ONE LEFT TURN	2	0.3%
OPPOSITE DIRECTION: ONE STRAIGHT-ONE BACKING	2	0.3%
ONE MOTOR VEHICLE: OTHER	1	0.1%
OPPOSITE DIRECTION: BOTH LEFT TURNS	1	0.1%
ONE MOTOR VEHICLE: VEHICLE BACKING	1	0.1%
ANGLE - ONE STRAIGHT-ONE BACKING	1	0.1%
ANGLE - ONE RIGHT TURN-ONE LEFT TURN	1	0.1%
SAME DIRECTION: BOTH RIGHT TURN	1	0.1%
NOT REPORTED	1	0.1%
TOTAL	785	

45% of the crashes that occurred along this segment of roadway were rear-end type collisions. Approximately 1 in 10 crashes were broadside or T-bone crashes, and about 20% were turning type crashes.

Top 25 Primary Contributing Factors

Contributing Factor	Crashes	PCT
FAILED TO CONTROL SPEED	334	39.2%
FAILED TO YIELD ROW - STOP SIGN	60	7.0%
FAILED TO YIELD ROW - TURNING LEFT	54	6.3%
DRIVER INATTENTION	42	4.9%
FOLLOWED TOO CLOSELY	34	4.0%
FAILED TO YIELD ROW - PRIVATE DRIVE	34	4.0%
BACKED WITHOUT SAFETY	26	3.1%
UNDER INFLUENCE - ALCOHOL	26	3.1%
FAILED TO DRIVE IN SINGLE LANE	26	3.1%
DISREGARD STOP SIGN OR LIGHT	22	2.6%
OTHER FACTOR	17	2.0%
DISREGARD STOP AND GO SIGNAL	17	2.0%
WRONG SIDE - NOT PASSING	15	1.8%
SPEEDING - UNSAFE (UNDER LIMIT)	13	1.5%
FAULTY EVASIVE ACTION	13	1.5%
CHANGED LANE WHEN UNSAFE	12	1.4%
TURNED WHEN UNSAFE	11	1.3%
PASSED IN NO PASSING LANE	8	0.9%
ANIMAL ON ROAD- WILD	8	0.9%
PASSED ON RIGHT SHOULDER	7	0.8%
TURNED IMPROPERLY - CUT CORNER ON LEFT	7	0.8%
FATIGUED OR ASLEEP	7	0.8%
FAILED TO PASS TO RIGHT SAFELY	4	0.5%
FAILED TO YIELD ROW - OPEN INTERSECTION	4	0.5%
DISTRACTION IN VEHICLE	4	0.5%
ALL OTHER FACTORS	47	5.5%
TOTAL	852	

The top five primary contributing factors correlate very well with the most frequent manners of collision along the roadway.



Crash frequency along this road segment corresponds to standard travel peak times. The highest crash frequencies occur during morning and afternoon peak times, with the highest frequencies at 7AM in the morning and 4PM in the afternoon.

Texas Department of Transportation

MEMO

October 21, 2016

To: Michael Lee, PE

Concur. 10/25/16

From: Mark D. Wooldridge, PE
Director of Maintenance, Houston District

Subject: Proposed Picnic Area Closure, SH 105 at Cagle Branch, Montgomery County

---

We have received requests from local and state government officials to close the picnic area on SH 105 between Walker Road and FM 1484. The park is no longer necessary for comfort and convenience to the travelling public. It is used for dumping trash and other unsavory activities.

I concur with the request.

CC: Quincy D. Allen, PE
Walter Hambrick

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JACOBS

5995 Rogerdale Road
PO Box 53495
Houston, Texas 77072 U.S.A.
1.832.351.6000 Fax 1.832.351.7700

October 12, 2016

Sam Houston National Forest
Mr. Warren Oja
District Ranger
394 FM 1375 West
New Waverly, Texas 77358

Reference: SH 105 Improvements
Limits: 10th Street in Conroe to Business 105
Counties: Montgomery, San Jacinto, and Liberty Counties
Length: Approximately 20 Miles

Dear Mr. Oja:

The Texas Department of Transportation (TxDOT) is proposing to widen SH 105 at the above-referenced location. Jacobs is currently under contract with TxDOT to perform environmental services for this proposed roadway project.

The proposed project consists of widening the roadway from a two-lane undivided facility to a four-to-six-lane facility with a center turn lane. The existing right-of-way (ROW) width ranges from 80 feet at the western project boundary in Conroe, and is typically 120 to 150 feet throughout the length of the project. The proposed ROW width ranges from 120 feet at the western project boundary in Conroe, but has a typical proposed ROW width ranging from 130 to 180 feet and a maximum proposed ROW width of 280 feet at Caney Creek and Peach Creek.

The additional ROW required for the proposed project totals approximately 45 acres. The nearest distance between the proposed project and any Sam Houston National Forest (SHNF) compartment is approximately 513 feet. A project location map and the SHNF boundary map are enclosed for your review.

Jacobs is conducting the environmental investigations on the above-referenced project. In order to help determine the environmental significance of the proposed project, we are requesting confirmation that the enclosed SHNF boundary map is accurate, and for any comments you may have regarding the proposed project.

If you need any additional information or have any questions or comments regarding this proposed project, please feel free to contact me at (281) 575-2486.

Sincerely,

Ellen Stephenson
Senior Environmental Planner
Enclosures (2): SHNF Boundary Map, Proposed Project Location Map

cc: Ms. Terri Dedhia, TxDOT Environmental Coordinator

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FAX TRANSMITTAL

MOORE ARCHEOLOGICAL CONSULTING, INC.
3511 Houston Avenue, Suite B
Houston, Texas 77009
FAX (713) 861-8627
Voice (713) 861-8663
861-2323

February 20, 2007

To:
Ellen Stevenson
Carter & Burgess, Inc.
55 Waugh Dr., #800
Houston, Texas 77007

FAX: 713-869-2409

Re: A Cultural Resource Survey for the Proposed ROW Expansion for State Highway 105, Montgomery County, Texas.

THC Permit No. **3372**

MAC PN 03-96, ROI 399

Pages to follow: 1

Ms. Stevenson,

We have been notified that the final reports on the above referenced project have been received by the Texas Historical Commission and that the permit is now complete. We have enjoyed working with you and your staff on this project.

Thank you,

David Driver, M.A.
Staff Archeologist

03-96

TEXAS HISTORICAL COMMISSION

The State Agency for Historic Preservation

RICK PERRY, GOVERNOR

JOHN L. NAU, III, CHAIRMAN

F. LAWERENCE OAKS, EXECUTIVE DIRECTOR

February 14, 2007

Mr. David Driver
Moore Archeological Consulting, Inc.
3511 Houston Avenue, Suite B
Houston, Tx 77009

Re: Project review under the Antiquities Code of Texas
Final Report: *A Cultural Resource Survey for the Proposed ROW Expansion for State Highway 105, Montgomery County*
Texas Antiquities Permit #3372
COMPLETED PERMIT

Dear Colleague:

Thank you for your correspondence describing the above referenced project. This letter presents the comments of the Executive Director of the Texas Historical Commission, the state agency responsible for administering the Antiquities Code of Texas.

The Archeology Division is in receipt of twenty copies of the final report and a completed *Abstracts in Texas Contract Archeology* form for the above referenced permit. The submission of twenty copies of the final report and abstract form demonstrates completion of your permit requirements under Permit #3372..

Thank you for your cooperation in this state review process, and for your efforts to preserve the irreplaceable heritage of Texas. **If you have any questions concerning our review or if we can be of further assistance, please contact Lillie Thompson at 512/463-1858.**

Sincerely,

for
F. Lawerence Oaks, State Historic Preservation Officer

FLO/lft

P.O. BOX 12276 · AUSTIN, TX 78711-2276 · 512/463-6100 · FAX 512/475-4872 · TDD 1-800/735-2989
www.thc.state.tx.us

Texas Department of Transportation

125 EAST 11TH STREET, AUSTIN, TEXAS 78701-2483 | 512.463.8588 | WWW.TXDOT.GOV

January 6, 2017

RE: Early Coordination for Sec. 106 Consultation

To: The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by the Federal Highway Administration (FHWA) and TxDOT.

The purpose of this letter is to include more detailed information about TxDOT's consultation program. The documents include information on the **TxDOT Early Tribal Coordination Tool** and a table of the projects and nearby archeological sites, if any, that the **TxDOT Early Tribal Coordination Tool** map depicts. This letter provides more detail about both the **TxDOT Early Tribal Coordination Tool** and the table.

TxDOT Early Coordination Tool

The first attachment contains the link, log in information and directions for the **TxDOT Early Tribal Coordination Tool**. This web-based map depicts hundreds of both minor and major TxDOT projects within your area of interest and any known archeological sites within a kilometer of each project. Each project's provisional area of effects (APE) is defined in the tool as the area within 500 feet of a roadway segment. As TxDOT develops detailed plans for each project and finalizes the APE, this provisional APE in most cases will likely be refined to a smaller area. Archeological sites do occur in proximity to some of the projects, and new sites may be discovered through further investigations. Archeological sites that qualify for inclusion in the National Register of Historic Properties are, however, rare. TxDOT thus expects that most of these projects will have no effect on archeological historic properties. All of the depicted projects have been or will be reviewed by the Environmental Affairs' Archeology Branch to verify that the projects will have no effect.

****YOU MAY COMMENT AT ANY TIME DURING THIS EARLY COORDINATION PROCESS AND USE OF THE TOOL DOES NOT PRECLUDE THE ABSENTEE SHAWNEE TRIBE OF OKLAHOMA FROM ENTERING INTO CONSULTATION PER SEC. 106 OF THE NATIONAL HISTORIC PRESERVATION ACT (NHPA).**

We will continue to send you consultation letters on any project whose area of potential effects includes Native American sites and on all major projects. Major projects:

- include border crossing facility construction, conversion of non-freeways to freeways, new location non-freeways, new location freeways, widening non-freeways, and widening freeways; and
- Require new right-of-way.

Major projects would cause more than 100 cubic yards of ground disturbance to previously-undisturbed areas, and such projects may affect areas that have not been previously surveyed for cultural resources.

For minor projects, TxDOT will conduct investigations of the final APE. These investigations will comprise review of available background information and, in some cases, field studies. TxDOT will not provide further information about such minor projects unless these investigations reveal the presence of a site.

Table of Projects and Sites

The second attachment contains a table of the projects and any sites within the 500-foot APE of each project. As previously noted, sites may have already been identified within this provisional APE. The table lists, as a separate row, each site found within 500 feet of a project. For projects where multiple sites have been found within the provisional APE, the same project will be listed multiple times in the table. Projects for which no known sites occur within 500 feet will be listed only once. The table can be sorted in various ways, such as by County, project status, and let date.

If you have any questions about these tools or would like to consult on any of the projects listed, please contact Laura Cruzada at 512/416-2638, laura.cruzada@txdot.gov. When replying to this correspondence by US Mail, please ensure that the envelope address includes reference to the Archeological Studies Branch, Environmental Affairs Division.

Thank you for your attention to this matter.

Sincerely,

Scott Pletka, Deputy Section Director
Environmental Affairs Division

Stephenson, Ellen

From: Terri Dedhia <Terri.Leeson@txdot.gov>
Sent: Thursday, April 20, 2017 2:05 PM
To: Stephenson, Ellen
Subject: ARCH for SH 105 E

Got this email from Allen Bettis:

Archival background study has been signed off on and archeology is cleared as of today. I cannot update ECOS with NEPA Cleared until you both complete your reviews and close out.

So ARCH is done for this project.

Thanks,
Terri

Terri Dedhia
Environmental Coordinator
TxDOT – Houston District

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JACOBS

5995 Rogerdale Road
PO Box 53495
Houston, Texas 77072 U.S.A.
1.832.351.6000 Fax 1.832.351.7700

October 12, 2016

Commander
Eighth Coast Guard District
Hale Boggs Federal Building
500 Poydras Street
New Orleans, Louisiana 70130

Reference: SH 105 Improvements
Limits: 10th Street in Conroe to Business 105
Counties: Montgomery, San Jacinto, and Liberty Counties
Length: Approximately 20 Miles

To Whom it May Concern:

The Texas Department of Transportation (TxDOT) is proposing to widen SH 105 at the above-referenced location. Jacobs is currently under contract with TxDOT to perform environmental services for this proposed roadway project.

The proposed project consists of widening the roadway from a two-lane undivided facility to a four-to-six-lane facility with a center turn lane. The existing right-of-way (ROW) width ranges from 80 feet at the western project boundary in Conroe, and is typically 120 to 150 feet throughout the length of the project. The proposed ROW width ranges from 120 feet at the western project boundary in Conroe, but has a typical proposed ROW width ranging from 130 to 180 feet and a maximum proposed ROW width of 280 feet at Caney Creek and Peach Creek. The additional ROW required for the proposed project totals approximately 45 acres.

Jacobs is conducting the environmental investigations on the above-referenced project. In order to help determine the environmental significance of the proposed project, we are requesting your input to determine if Stewarts Creek, Little Caney Creek, West Fork Crystal Creek, East Fork Crystal Creek, Caney Creek, Cagle Branch Creek, Spring Branch Creek, Lawrence Creek, Peach Creek, Jayhawker Creek, and Bee Branch at SH 105 in the above-referenced project limits are considered navigable and thereby subject to Section 9 permitting.

We would like to incorporate your input into the EA; therefore, your prompt attention regarding this matter is appreciated. Enclosed for your review is a project location map and U.S. Geological Survey map. If you need any additional information or if you have any questions regarding this project, please call me at (281) 575-2486

Sincerely,

Ellen Stephenson
Senior Environmental Planner
Enclosures (2): Project Location Map, USGS Map

cc: Ms. Terri Dedhia, TxDOT Environmental Coordinator

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U.S. Department of Homeland Security
United States Coast Guard

Commandant
United States Coast Guard
Hale Boggs Federal Building

500 Poydras Street, Room 1313
New Orleans, LA 70130-3310
Staff Symbol: dpb
Phone: (504) 671-2128
Fax: (504) 671-2133
D8DPBALL@uscg.mil

16591A
March 24, 2017

Texas Department of Transportation
Attn: Mr. Mario Mata, Jr.
7600 Washington Avenue
Houston, Texas 77007

SH 105 Improvement Project from 10 Street in Conroe to Business 105
Federal Project number: NH ( )
FHWA Approval Date: 10/29/2003
Montgomery, San Jacinto, and Liberty Counties, Texas

Dear Mr. Mata:

We received your email dated March 24, 2017, for the proposed widening of SH 105 from a two lane undivided roadway to a four to six lane roadway crossing Stewarts Creek, Little Caney Creek, West Fork Crystal Creek, East Fork Crystal Creek, Caney Creek, Cagle Branch Creek, Spring Branch Creek, Lawrence Creek, Peach Creek, Jayhawker Creek and Bee Branch in Montgomery, San Jacinto, and Liberty Counties, Texas. You stated that federal funds are available for this project. However, prior to the Coast Guard's involvement in this project, under 23 CFR §650.805, the Federal Highway Administration (FHWA) has the responsibility under the Surface Transportation Assistance (STA) Act of 1978 to determine whether or not a USCG permit is required for bridge construction.

Section 144(h) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related costs in the execution of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges -- which are constructed, reconstructed, rehabilitated, or replaced with federal assistance imposed under Title 23 U.S. Code -- are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges that fall into this excluded category are those that cross waterways:

(1) which are not used and are not susceptible to use in their natural condition or by reasonable improvement as a means to transport interstate or foreign commerce; and

(2) which are nontidal, or if tidal, used by vessels less than 21 feet in length.

Since FHWA has the responsibility for the STA Act, the Coast Guard will accept a determination by the FHWA Administrator that a bridge project receiving federal assistance under Title 23 U.S. Code meets the stated criteria and is exempted for Coast Guard Bridge Administration purposes. This letter does not imply that this project meets the criteria above and does not constitute concurrence as meeting the criteria. Coordination and concurrence between FHWA and the Coast Guard is required once FHWA has investigated a project and reached a determination that the bridge or bridges are eligible under the applicable statutes.

It must be noted that the subject Act which amended Title 23 U.S. Code to include 23 U.S.C. 144(h), did not exclude that category of bridges from the application of 14 U.S.C.85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. Approval of lights and other signals required under the provisions of 33 CFR 118 should be obtained, prior to the commencement of construction, from this office. If it is determined that federal funds will not be utilized, additional information may be required to determine whether a Coast Guard permit will be required.

If we can be of further assistance, please contact this office.

Sincerely,

Doug Blakemore
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

Copy: Mr. Hector Garcia, FHWA
Ms. Ellen Stephenson, JACOBS

Print this Pa

CIS - STIP View Only

ntrol Section Job: 033804060
Highway Number: SH 105
District: HOUSTON
Location From: FM 1314
County: MONTGOMERY
Location To: LP 336
Actual Let: /
Layman's Description: WIDEN TO 4 LANE DIVIDED RURAL

Project Information

MPO Project ID: 504
Functional Class: 4
Existing Number of Lanes: 2
roposed Number of Lanes: 4
Project Length Miles: 2.08
Implementing Agency:
istrict Estimated Let Date: 09/05

Project Coding

Federal Project Number: NH ( )
State Category: 2
Phase: C PE ROW
MPO Code: 1117
TIP Year: 2006
STIP Revision Date: 09/2003
FHWA Approval Date: 10/29/2003

Project Funding

APPN Code 1 - 4: Q050
Cost 1 - 4: 5090000
stimated Construction Costs: 5090000
local Contribution:
Total Federal: 4072000
Total State: 1018000
Total Local:

Remarks: _____ 04-06;2-80

Stephenson, Ellen

From: Garcia, Hector (FHWA) <Hector.Garcia@dot.gov>
Sent: Wednesday, June 14, 2017 12:54 PM
To: Terri Dedhia
Cc: Mario Mata Jr; Smyth, Andrew (FHWA)
Subject: RE: SH 105 W: 10th Street in Conroe to Business 105 (CSJ 0338-04-060)
Attachments: SH105_Cagle_Brn USCG_Concurrence 2017.06.06.pdf; SH105_Caney_Crk USCG_Concurrence 2017.06.06.pdf; SH105_E_Frk_Crystal_Crk USCG_Concurrence 2017.06.06.pdf; SH105_Jayhawker_Crk USCG_Concurrence 2017.06.05.pdf; SH105 _Lawrence_Crk USCG_Concurrence 2017.06.06.pdf; SH105_Peach_Crk USCG_Concurrence 2017.06.06.pdf; SH105_Stewarts_Crk USCG_Concurrence 2017.06.06.pdf

Good afternoon Terri,

Our office has received concurrence from the USCG on our determination that these bridge projects meet the criteria for the Surface Transportation Authorization Act (STAA) and are exempted from USCG Bridge Administration purposes. Attached are the USCG letters for your records.

Please let us know if we can be of further assistance.

Thanks,

Hector Garcia

From: Terri Dedhia [mailto:Terri.Leeson@txdot.gov]
Sent: Tuesday, May 23, 2017 3:24 PM
To: Smyth, Andrew (FHWA) <Andrew.Smyth@dot.gov>
Cc: Mario Mata Jr <Mario.Mata@txdot.gov>; Garcia, Hector (FHWA) <Hector.Garcia@dot.gov>
Subject: RE: SH 105 W: 10th Street in Conroe to Business 105 (CSJ 0338-04-060)

Ok, thank you for the information. Please let me know if you need anything.

Terri Dedhia
Environmental Coordinator
TxDOT – Houston District

From: Smyth, Andrew (FHWA) [mailto:Andrew.Smyth@dot.gov]
Sent: Tuesday, May 23, 2017 2:45 PM
To: Terri Dedhia
Cc: Mario Mata Jr; Garcia, Hector (FHWA)
Subject: RE: SH 105 W: 10th Street in Conroe to Business 105 (CSJ 0338-04-060)

Terri,

To my recollection, we've never processed a permit waiver without bridge layout plans before. However, after speaking with USCG it looks like we should be able to get these through as-is due to the nature of the waterways crossed (non-

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Lawrence Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

   (1) which are not used and are not susceptible to use in their natural condition or by reasonable improvement as a means to transport interstate or foreign commerce; and

   (2) which are nontidal; or if tidal, used by vessels less than 21 feet in length.

3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Cagle Branch on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore
CGD EIGHT (dpb)

Doug Blakemore

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Caney Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing East Fork Crystal Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Stewarts Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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   (2) which are nontidal; or if tidal, used by vessels less than 21 feet in length.

3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 5, 2017

MEMORANDUM

From: Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Jayhawker Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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   (2) which are nontidal; or if tidal, used by vessels less than 21 feet in length.

3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591C
June 6, 2017

MEMORANDUM

From: Doug Blakemore Doug Blakemore
CGD EIGHT (dpb)

To: Hector Garcia, Assistant Bridge Engineer
Federal Highway Administration

Subj: Surface Transportation Authorization Act Concurrence

1) We have received your FedEx Express letter dated May 25, 2017, the proposed widening of the bridge crossing Peach Creek on SH 105, Montgomery County, Texas. This project meets the criteria for the Surface Transportation Authorization Act (STAA) and qualifies for exemption from Coast Guard bridge permit requirements.

2) Section 144(c) of Title 23 U.S. Code was enacted in 1978 to reduce paperwork and related cost in the executive of the Coast Guard's bridge permit programs. This section has been amended by the Act of April 2, 1987 (Public Law 100-17), to further reduce paperwork and related costs in the permitting of bridges funded by this Act. By reason of this provision, certain bridges which are constructed, reconstructed, rehabilitated, or replace with federal assistance imposed under Title 23 U.S. Code – are no longer subject to the permitting requirements imposed under 33 U.S.C. 401 and 525(b). The bridges which fall into this excluded category are those that cross waterways:

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3) Since FHWA has the responsibility for the STAA and based on the information provided by the Texas Department of Transportation (TXDOT), the Coast Guard accepts your determination that this bridge project meets the criteria for the STAA and is exempted from Coast Guard Bridge Administration purposes.

4) Though exempt under STAA, this bridge is not exempt from the Coast Guard required lights and other signals as the subject Act which amended Title 23 U.S. Code, to include 23 U.S.C. 144(c), did not exclude this category of bridges from the application of 14 U.S.C. 85. The later statute requires the establishment, maintenance, and operation of Coast Guard required lights and signals on fixed structures, including bridges. The owner, TXDOT must request the lighting exemption and provide the reason, the only exemption being Title 33 CFR 118.40(b). The statement of the reason for this exemption must fulfill the requirements of this section. Specifically, if it is determined that no significant nighttime navigation occurs at this bridge site a statement to this effect is required before a decision can be made. Once we receive the required information from the owner of the bridge, we will evaluate the specified conditions and respond accordingly.

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16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing Stewarts Creek at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District
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16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing East Fork Crystal Creek at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

U.S. Department of Homeland Security
United States Coast Guard

Commander
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16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing Caney Creek at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

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16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing Cagle Branch at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

U.S. Department of Homeland Security
United States Coast Guard

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Eighth Coast Guard District
Hale Boggs Federal Building

500 Poydras Street, Room 1313
New Orleans, LA 70130-3310
Staff Symbol: dpb
Phone: 504-671-2128
Fax: 504-671-2133
D8DBPALL@uscg.mil

16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing Peach Creek at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District
Hale Boggs Federal Building

500 Poydras Street, Room 1313
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Phone: 504-671-2128
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D8DBPALL@uscg.mil

16591E
July 18, 2017

Texas Department of Transportation
Attn: Mr. Pat Henry
P.O. Box 1386
Houston, Texas 77251-1386

Dear Mr. Henry:

We received your letter dated July 11, 2017, requesting an exemption from navigational lighting requirements for the proposed widening of the bridge crossing Jayhawker Creek at SH 105 Montgomery, San Jacinto, and Liberty Counties, Texas.

Based on your statement that no significant nighttime navigation occurs at this bridge site and pursuant to Title 33 of the Code of Federal Regulations, Part 118.40, the proposed bridge project is hereby exempt from Coast Guard navigational lighting requirements. This exemption is subject to review and revocation in the future provided conditions change or are found to differ significantly from those indicated in your request.

If we can be of any further assistance, please contact this office.

Sincerely,

Douglas A Blakemore

DOUGLAS A. BLAKEMORE
Chief, Bridge Administration Branch
U.S. Coast Guard
By direction

From:	NEPA
To:	Sonya Hernandez
Subject:	RE: TCEQ Coordination for Water; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019
Date:	Thursday, May 18, 2017 12:06:54 PM
Attachments:	TxDOT Response 17-13.docx

Ms. Hernandez:

Attached is the response to your request. If you are in need of further assistance, please feel free to contact me.

Thank you,

Chikaodi Agumadu
NEPA Coordinator
Texas Commission on Environmental Quality Intergovernmental Relations
12100 Park 35 Circle Bldg. F | Mail Code 119 | Austin, TX 78753
(512) 239-3500

From: Sonya Hernandez [mailto:Sonya.Hernandez@txdot.gov]
Sent: Tuesday, May 16, 2017 1:58 PM
To: NEPA <NEPA@tceq.texas.gov>
Subject: TCEQ Coordination for Water; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

Subject: TCEQ Coordination for Water; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

To Whom It May Concern:
TxDOT requests the TCEQ evaluate this SH 105 project per 43 TAC 2.305. The proposed project would be a 20 mile reconstruction and widening project passing through the cities of Conroe and Cut and Shoot, the unincorporated communities of Security and Fostoria, and the extraterritorial jurisdiction (ETJ) of the City of Cleveland.

We are requesting this TCEQ review since the project meets MOU triggers related to water quality impairment.

An electronic version of the Water Resources Technical Report will be transmitted to your office using our FTP system. Please let me know if you have any questions.
Thank you,

Sonya Y. Hernandez, P.G.

Re: Response to Request for TCEQ Environmental Review

The Texas Commission on Environmental Quality (TCEQ) received a request from the Texas Department of Transportation (TxDOT) regarding the following project: TCEQ Coordination for Water; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

In accordance with the Memorandum of Understanding between TxDOT and TCEQ addressing environmental reviews, which is codified in Chapter 43, Subchapter I of the Texas Administrative Code (TAC) and 30 TAC § 7.119, TCEQ is responding to your request for review by providing the below comments:

The Office of Water does not anticipate significant long term environmental impacts from this project as long as construction and waste disposal activities associated with it are completed in accordance with applicable local, state, and federal environmental permits, statutes, and regulations. We recommend that the applicant take necessary steps to ensure that best management practices are used to control runoff from construction sites to prevent detrimental impact to surface and ground water.

TxDOT will still need to follow all other applicable laws related to this project, including applying for applicable permits.

If you have any questions, please feel free to contact the NEPA Coordinator at (512) 239-3500 or NEPA@tceq.texas.gov.

Chikaodi Agumadu
NEPA Coordinator
TCEQ, MC-119
NEPA@tceq.texas.gov
512-239-3500

From:	NEPA
To:	Sonya Hernandez
Subject:	RE: TCEQ Coordination for Air Quality; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019
Date:	Wednesday, August 09, 2017 1:35:03 PM
Attachments:	TxDOT Response 17-17.docx

Ms. Hernandez –

Attached is the response to your request. If you are in need of further assistance, please feel free to contact me.

Thank you,

Chikaodi Agumadu
NEPA Coordinator
Texas Commission on Environmental Quality
Communications and Intergovernmental Relations
12100 Park 35 Circle Bldg. F | Mail Code 119 | Austin, TX 78753
(512) 239-3500

From: Sonya Hernandez [mailto:Sonya.Hernandez@txdot.gov]
Sent: Thursday, August 03, 2017 9:47 AM
To: NEPA <NEPA@tceq.texas.gov>
Subject: TCEQ Coordination for Air Quality; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

Subject: TCEQ Coordination for Air Quality; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs: 0338-04-060, 0338-04-065, 0338-04-066, 0338-05-028, 0338-06-011 and 0338-07-019

To Whom It May Concern:
TxDOT requests the TCEQ evaluate this SH 105 project per 43 TAC 2.305. The proposed project would be a 20 mile reconstruction and widening project passing through the cities of Conroe and Cut and Shoot, the unincorporated communities of Security and Fostoria, and the extraterritorial jurisdiction (ETJ) of the City of Cleveland.

We are requesting this TCEQ review since the project meets MOU triggers related to air quality.

An electronic version of the Air Quality Technical Report will be transmitted to your office using our FTP system (drop box). Please let me know if you have any questions.
Thank you,

Sonya Y. Hernandez, P.G.

Re: Response to Request for TCEQ Environmental Review

The Texas Commission on Environmental Quality (TCEQ) received a request from the Texas Department of Transportation (TxDOT) regarding the following project: TCEQ Coordination for Air Quality; SH 105; Houston District (Montgomery, San Jacinto, and Liberty Counties, Texas) CSJs

In accordance with the Memorandum of Understanding between TxDOT and TCEQ addressing environmental reviews, which is codified in Chapter 43, Subchapter I of the Texas Administrative Code (TAC) and 30 TAC § 7.119, TCEQ is responding to your request for review by providing the below comments.

This project is in an area of Texas classified by the United States Environmental Protection Agency as moderate nonattainment for the 2008 ozone National Ambient Air Quality Standard. Air Quality staff has reviewed the document in accordance with transportation and general conformity regulations codified in 40 Code of Federal Regulations Part 93 Subparts A and B. We concur with TxDOT's assessment.

TxDOT will still need to follow all other applicable laws related to this project, including applying for applicable permits.

If you have any questions, please feel free to contact the NEPA Coordinator at (512) 239-3500 or NEPA@tceq.texas.gov.

Chikaodi Agumadu
NEPA Coordinator
TCEQ, MC-119
NEPA@tceq.texas.gov
512-239-3500

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Texas Coastal Ecological Services Field Office
17629 EL CAMINO REAL, SUITE 211
HOUSTON, TX 77058
PHONE: (281)286-8282 FAX: (281)488-5882
URL: www.fws.gov/southwest/es/TexasCoastal/;
www.fws.gov/southwest/es/ES_Lists_Main2.html

Consultation Code: 02ETTXX0-2016-SLI-0971 July 26, 2016
Event Code: 02ETTXX0-2016-E-01048
Project Name: SH 105: From 10th Street in Conroe to Business 105

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The U.S. Fish and Wildlife Service (Service) field offices in Clear Lake, Tx, and Corpus Christi, Tx, have combined administratively to form the Texas Coastal Ecological Services Field Office. A map of the Texas Coastal Ecological Services Field Office area of responsibility can be found at: http://www.fws.gov/southwest/es/TexasCoastal/Map.html. All project related correspondence should be sent to the field office responsible for the area in which your project occurs. For projects located in southeast Texas please write to: Field Supervisor; U.S. Fish and Wildlife Service; 17629 El Camino Real Ste. 211; Houston, Texas 77058. For projects located in southern Texas please write to: Field Supervisor; U.S. Fish and Wildlife Service; 6300 Ocean Drive, Unit 5837, Corpus Christi, Texas 78412.

The enclosed species list identifies federally threatened, endangered, and proposed to be listed species; designated critical habitat; and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list is provided by the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information from updated surveys, changes in the abundance and distribution of species, changes in habitat conditions, or other factors could change the list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation for updates to species list and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

Candidate species have no protection under the Act but are included for consideration because they could be listed prior to the completion of your project. The other species information should help you determine if suitable habitat for these listed species exists in any of the proposed project areas or if project activities may affect species on-site, off-site, and/or result in "take" of a federally listed species.

"Take" is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. In addition to the direct take of an individual animal, habitat destruction or modification can be considered take, regardless of whether it has been formally designated as critical habitat, if the activity results in the death or injury of wildlife by removing essential habitat components or significantly alters essential behavior patterns, including breeding, feeding, or sheltering.

Section 7

Section 7 of the Act requires that all Federal agencies consult with the Service to ensure that actions authorized, funded or carried out by such agencies do not jeopardize the continued existence of any listed threatened or endangered species or adversely modify or destroy critical habitat of such species. It is the responsibility of the Federal action agency to determine if the proposed project may affect threatened or endangered species. If a "may affect" determination is made, the Federal agency shall initiate the section 7 consultation process by writing to the office that has responsibility for the area in which your project occurs.

Is not likely to adversely affect the project may affect listed species and/or critical habitat; however, the effects are expected to be discountable, insignificant, or completely beneficial. Certain avoidance and minimization measures may need to be implemented in order to reach this level of effects. The Federal agency or the designated non-Federal representative should seek written concurrence from the Service that adverse effects have been eliminated. Be sure to include all of the information and documentation used to reach your decision with your request for concurrence. The Service must have this documentation before issuing a concurrence.

Is likely to adversely affect adverse effects to listed species may occur as a direct or indirect result of the proposed action or its interrelated or interdependent actions, and the effect is not discountable, insignificant, or beneficial. If the overall effect of the proposed action is beneficial to the listed species but also is likely to cause some adverse effects to individuals of that species, then the proposed action "is likely to adversely affect" the listed species. An "is likely to adversely affect" determination requires the Federal action agency to initiate formal section 7 consultation with this office.

No effect the proposed action will not affect federally listed species or critical habitat (i.e., suitable habitat for the species occurring in the project county is not present in or adjacent to the action area). No further coordination or contact with the Service is necessary. However, if the project changes or additional information on the distribution of listed or proposed species becomes available, the project should be reanalyzed for effects not previously considered.

Regardless of your determination, the Service recommends that you maintain a complete record of the evaluation, including steps leading to the determination of affect, the qualified personnel

conducting the evaluation, habitat conditions, site photographs, and any other related articles.

Please be advised that while a Federal agency may designate a non-Federal representative to conduct informal consultations with the Service, assess project effects, or prepare a biological assessment, the Federal agency must notify the Service in writing of such a designation. The Federal agency shall also independently review and evaluate the scope and contents of a biological assessment prepared by their designated non-Federal representative before that document is submitted to the Service.

The Service's Consultation Handbook is available online to assist you with further information on definitions, process, and fulfilling Act requirements for your projects at: http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf

Section 10

If there is no federal involvement and the proposed project is being funded or carried out by private interests and/or non-federal government agencies, and the project as proposed may affect listed species, a section 10(a)(1)(B) permit is recommended. The Habitat Conservation Planning Handbook is available at http://www.fws.gov/midwest/endangered/permits/hcp/hcphandbook.html.

Service Response

Please note that the Service strives to respond to requests for project review within 30 days of receipt, however, this time period is not mandated by regulation. Responses may be delayed due to workload and lack of staff. Failure to meet the 30-day timeframe does not constitute a concurrence from the Service that the proposed project will not have impacts to threatened and endangered species.

Candidate Species

Several species of freshwater mussels occur in Texas and five are candidates for listing under the ESA. The Service is also reviewing the status of six other species for potential listing under the ESA. One of the main contributors to mussel die offs is sedimentation, which smothers and suffocates mussels. To reduce sedimentation within rivers, streams, and tributaries crossed by a project, the Service recommends that that you implement the best management practices found at: http://www.fws.gov/southwest/es/TexasCoastal/FreshwaterMussels.html.

Candidate Conservation Agreements (CCAs) or Candidate Conservation Agreements with Assurances (CCAAs) are voluntary agreements between the Service and public or private entities to implement conservation measures to address threats to candidate species. Implementing conservation efforts before species are listed increases the likelihood that simpler, flexible, and more cost-effective conservation options are available. A CCAA can provide participants with assurances that if they engage in conservation actions, they will not be required to implement additional conservation measures beyond those in the agreement. For additional information on CCAs/CCAAs please visit the Service's website at http://www.fws.gov/endangered/what-we-do/cca.html.

Migratory Birds

The Migratory Bird Treaty Act (MBTA) implements various treaties and conventions for the protection of migratory birds. Under the MBTA, taking, killing, or possessing migratory birds is unlawful. Many may nest in trees, brush areas or other suitable habitat. The Service recommends activities requiring vegetation removal or disturbance avoid the peak nesting period of March through August to avoid destruction of individuals or eggs. If project activities must be conducted during this time, we recommend surveying for active nests prior to commencing work. A list of migratory birds may be viewed at http://www.fws.gov/migratorybirds/regulationspolicies/mbta/mbtandx.html.

The bald eagle (*Haliaeetus leucocephalus*) was delisted under the Act on August 9, 2007. Both the bald eagle and the goden eagle (*Aquila chrysaetos*) are still protected under the MBTA and BGEPA. The BGEPA affords both eagles protection in addition to that provided by the MBTA, in particular, by making it unlawful to "disturb" eagles. Under the BGEPA, the Service may issue limited permits to incidentally "take" eagles (e.g., injury, interfering with normal breeding, feeding, or sheltering behavior nest abandonment). For more information on bald and golden eagle management guidlines, we recommend you review information provided at http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf

The construction of overhead power lines creates threats of avian collision and electrocution. The Service recommends the installation of underground rather than overhead power lines whenever possible. For new overhead lines or retrofitting of old lines, we recommend that project developers implement, to the maximum extent practicable, the Avian Power Line Interaction Committee guidelines found at http://www.aplic.org/.

Meteorological and communication towers are estimated to kill millions of birds per year. We recommend following the guidance set forth in the Service Interim Guidelines for Recommendations on Communications Tower Siting, Constructions, Operation and Decommissioning, found online at: http://www.fws.gov/habitatconservation/communicationtowers.html, to minimize the threat of avian mortality at these towers. Monitoring at these towers would provide insight into the effectiveness of the minimization measures. We request the results of any wildlife mortality monitoring at towers associated with this project.

We request that you provide us with the final location and specifications of your proposed towers, as well as the recommendations implemented. A Tower Site Evaluation Form is also available via the above website; we recommend you complete this form and keep it in your files. If meteorological towers are to be constructed, please forward this completed form to our office.

More information concerning sections 7 and 10 of the Act, migratory birds, candidate species, and landowner tools can be found on our website at: http://www.fws.gov/southwest/es/TexasCoastal/ProjectReviews.html.

Wetlands and Wildlife Habitat

Wetlands and riparian zones provide valuable fish and wildlife habitat as well as contribute to

ood control, water quality enhancement, and groundwater recharge. Wetland and riparian vegetation provides food and cover for wildlife, stabilizes banks and decreases soil erosion. These areas are inherently dynamic and very sensitive to changes caused by such activities as overgrazing, logging, major construction, or earth disturbance. Executive Order 11990 asserts that each agency shall provide leadership and take action to minimize the destruction, loss or degradation of wetlands, and to preserve and enhance the natural and beneficial value of wetlands in carrying out the agency's responsibilities. Construction activities near riparian zones should be carefully designed to minimize impacts. If vegetation clearing is needed in these riparian areas, they should be re-vegetated with native wetland and riparian vegetation to prevent erosion or loss of habitat. We recommend minimizing the area of soil scarification and initiating incremental re-establishment of herbaceous vegetation at the proposed work sites. Denuded and/or disturbed areas should be re-vegetated with a mixture of native legumes and grasses. Species commonly used for soil stabilization are listed in the Texas Department of Agriculture's (TDA) Native Tree and Plant Directory, available from TDA at P.O. Box 12847, Austin, Texas 78711. The Service also urges taking precautions to ensure sediment loading does not occur to any receiving streams in the proposed project area. To prevent and/or minimize soil erosion and compaction associated with construction activities, avoid any unnecessary clearing of vegetation, and follow established rights-of-way whenever possible. All machinery and petroleum products should be stored outside the oodplain and/or wetland area during construction to prevent possible contamination of water and soils.

Wetlands and riparian areas are high priority fish and wildlife habitat, serving as important sources of food, cover, and shelter for numerous species of resident and migratory wildlife. Waterfowl and other migratory birds use wetlands and riparian corridors as stopover, feeding, and nesting areas. We strongly recommend that the selected project site not impact wetlands and riparian areas, and be located as far as practical from these areas. Migratory birds tend to concentrate in or near wetlands and riparian areas and use these areas as migratory yways or corridors. After every effort has been made to avoid impacting wetlands, you anticipate unavoidable wetland impacts will occur; you should contact the appropriate U.S. Army Corps of Engineers office to determine if a permit is necessary prior to commencement of construction activities.

If your project will involve filling, dredging, or trenching of a wetland or riparian area it may require a Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers (COE). For permitting requirements please contact the U.S. Corps of Engineers, District Engineer, P.O. Box 1229, Galveston, Texas 77553-1229, (409) 766-3002.

Beneficial Landscaping

In accordance with Executive Order 13112 on Invasive Species and the Executive Memorandum on Beneficial Landscaping (42 C.F.R. 26961), where possible, any landscaping associated with project plans should be limited to seeding and replanting with native species. A mixture of grasses and forbs appropriate to address potential erosion problems and long-term cover should be planted when seed is reasonably available. Although Bermuda grass is listed in seed mixtures, this species and other introduced species should be avoided as much as possible. The Service also recommends the use of native trees, shrubs, and herbaceous species that are adaptable, drought tolerant and conserve water.

State Listed Species

The State of Texas protects certain species. Please contact the Texas Parks and Wildlife Department (Endangered Resources Branch), 4200 Smith School Road, Austin, Texas 78744 (telephone 512/389-8021) for information concerning fish, wildlife, and plants of State concern or visit their website at: http://www.tpwd.state.tx.us/huntwild/wild/wildlife_diversity/texas_rare_species/listed_species/.

If we can be of further assistance, or if you have any questions about these comments, please contact 281/286-8282 if your project is in southeast Texas, or 361/994-9005 if your project is in southern Texas. Please refer to the Service consultation number listed above in any future correspondence regarding this project.

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: SH 105: From 10th Street in Conroe to Business 105

Official Species List

Provided by:

Texas Coastal Ecological Services Field Office
17629 EL CAMINO REAL, SUITE 211
HOUSTON, TX 77058
(281) 286-8282
http://www.fws.gov/southwest/es/TexasCoastal/
http://www.fws.gov/southwest/es/ES_Lists_Main2.html

Consultation Code: 02ETTXX0-2016-SLI-0971
Event Code: 02ETTXX0-2016-E-01048

Project Type: TRANSPORTATION

Project Name: SH 105: From 10th Street in Conroe to Business 105
Project Description: Reconstruct and widen from two-lane facility to four-lane facility.

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Location Map:

Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Liberty, TX | Montgomery, TX | San Jacinto, TX

Endangered Species Act Species List

There are a total of 4 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 3 of these species should be considered only under certain conditions. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	**Status**	**Has Critical Habitat**	**Condition(s)**
Least tern *(Sterna antillarum)* Population: interior pop.	Endangered		Wind related projects within migratory route.
Piping Plover *(Charadrius melodus)* Population: except Great Lakes watershed	Threatened	Final designated	Wind related projects within migratory route.
Red Knot *(Calidris canutus rufa)*	Threatened		Wind related projects within migratory route.
Red-Cockaded woodpecker *(Picoides borealis)* Population: Entire	Endangered		

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Andrew Leske

From: Sue Reilly <Sue.Reilly@tpwd.texas.gov>
Sent: Thursday, November 30, 2017 4:21 PM
To: Andrew Leske
Subject: RE: Coordination Initiation Request - SH 105 E 0338-04-060 - Montgomery County

Andrew,

I do not have any further comments on this project.

Thank you for submitting the following project for early coordination: SH 105 widening from 10th St to Business 105 (CSJ 0338-04-060). TPWD appreciates TxDOT's commitment to implement the practices listed in the Tier I Assessment submitted on August 4, 2017 and in subsequent emails. Based on a review of the documentation, the avoidance and mitigation efforts described, and provided that project plans do not change, TPWD considers coordination to be complete. However, please note it is the responsibility of the project proponent to comply with all federal, state, and local laws that protect plants, fish, and wildlife.
According to §2.204(g) of the 2013 TxDOT-TPWD MOU, TxDOT agreed to provide TXNDD reporting forms for observations of tracked SGCN (which includes federal- and state-listed species) occurrences within TxDOT project areas. Please keep this mind when completing project due diligence tasks. For TXNDD submission guidelines, please visit the following link: http://tpwd.texas.gov/huntwild/wild/wildlife_diversity/txndd/submit.phtml

Thank you,

Sue Reilly
Transportation Assessment Liaison
TPWD Wildlife Division
512-389-8021

From: Andrew Leske [mailto:Andrew.Leske@txdot.gov]
Sent: Monday, November 27, 2017 7:37 AM
To: Sue Reilly <Sue.Reilly@tpwd.texas.gov>
Subject: RE: Coordination Initiation Request - SH 105 E 0338-04-060 - Montgomery County

Good Morning Sue,

Just checking in on the status. Do you need any additional information for the coordination?

Many Thanks

Andrew Leske
Environmental Specialist
TxDOT – Houston District
(713) 802-5885
Andrew.Leske@TxDOT.gov

Andrew Leske

From: Terri Dedhia
Sent: Friday, August 04, 2017 11:32 AM
To: 'WHAB_TxDOT@tpwd.texas.gov'
Subject: Coordination Initiation Request - SH 105 E 0338-04-060 - Montgomery County

Good Morning,

I would like to initiate coordination for the following project:

Road: SH 105 E: 10th Street in Conroe to Business 105 (near Cleveland)
CSJ: 0338-04-060, 0338-04-065, 0338-04-066, 0338-06-011, 0338-07-019
Project Description: The existing facility generally consists of a two-lane undivided facility with outside shoulders. The proposed project would reconstruct and widen the existing two-lane facility to a four to six-lane facility. Sidewalks would be added. Approximately 45 acres of new right-of-way would be required. A more detailed description can be found in the Draft EA, which is available in ECOS.

The entire Biological Tech Report, including Tier I Assessment, can be found in ECOS – the file is named "REVISED_BioTR_june 2017". It is too large to email, so please let me know if you have trouble accessing via ECOS.

Thanks,
Terri

Terri Dedhia
Environmental Coordinator
TxDOT – Houston District

Basis for No Effect Determinations

SH 105 CSJ: 0338-04-060

The June, 2017 Biological Technical Report identified potential habitat for the Red-cockaded Woodpecker and the Houston Toad. This document is a summary of the information to support a no effect determination which was gathered after the Technical Report was completed

Red-cockaded Woodpecker (RCW)

The July 26, 2016 USFWS's IPaC report and TPWD's RTEST identified the project area as within the range of RCW. The Bio Tech Report concluded there was no suitable habitat present in the project area, but that there was potential foraging habitat.

On February 16, 2018 NRM staff (Mark Fisher) called USFWS RCW species lead (Robert Allen) for technical assistance on RCW for this project. Mr. Allen said there were no known RCW in the project area, and doubted that the area had suitable foraging habitat because of the understory being too dense and over grown.

While USFWS does not consult on no effect determinations, Mr. Allen felt no effect was the appropriate call, especially if the area with pine trees was visited to confirm the understory was too thick for RCW. On March 7, 2018 NRM biologist (Mark Fisher and Dennis Palafox) visited the project site and confirmed the understory was too thick to support RCW for suitable RCW foraging habitat. Therefore, it was determined that the project will have no effect on RCW.

Houston Toad (HT)

The July 26, 2016 USFWS's IPaC report, does not identify the project area as within the range of HT. TPWD's RTEST identifies only Liberty County as potential HT range. The Bio Tech Report concluded there is suitable habitat (sandy and sandy loam substrates of the loblolly pine and mixed hardwood woodlands) throughout the Liberty County portion of the project area.

On February 20, 2018 NRM staff (Mark Fisher) called USFWS HT species lead (Jeffry Hill) for technical assistance on HT for this project. Mr. Hill said there were no known HT in the project area, and doubted that the area had HT. The discrepancy between IPaC and RTEST was discussed, and while USFWS does not consult on no effect determinations, Mr. Hill felt no effect was the appropriate call for this project.

On February 22, 2018 NRM staff (Mark Fisher) discussed the RTEST output with TPWD's Transportation Assessment Liaison (Sue Reilly). It was determined that the basis for RTEST showing HT in Liberty county was from a 1953 NDD record (EOID 3224) from south of Dayton Texas. Ms Reilly confirmed that TPWD considers HT extirpated from Liberty County. Therefore, it was determined that the project will have no effect on HT.

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DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P. O. BOX 1229
GALVESTON, TEXAS 77553-1229

February 26, 2018

Compliance Branch

SUBJECT: **SWG-2017-00512,** Texas Department of Transportation, Approved Jurisdictional Determination and Preliminary Jurisdictional Determination, State Highway 105 from Conroe to Cleveland, Liberty, Montgomery, and San Jacinto Counties, Texas.

Ms. Terri Dedhia
Texas Department of Transportation
P.O. Box 1386
Houston, Texas 77251

Dear Ms. Dedhia:

This letter is in response to the July 14, 2017 approved jurisdictional determination (AJD) request for the proposed reconstruction and widening of State Highway 105. A preliminary jurisdictional determination (PJD) was also requested on October 12, 2017 for specific aquatic features. The location of the proposed project is within proposed and existing right-of-ways (review area) of State Highway 105, and located between cities of Conroe and Cleveland, in Liberty, Montgomery, and San Jacinto Counties, Texas.

Based on review of Federal Regulations, a September 28, 2017 site visit, and December 14, 2017 desk review, we have determined that the review area contains waters of the U.S., including wetlands, as well as aquatic resources that are not waters of the U.S. Specifically, approximately 4,358 linear feet of tributaries and approximately 4.615 acres of wetlands were determined to be waters of the U.S. subject to Section 404 of the Clean Water Act (see attached map) via a PJD. According to Regulatory Guidance Letter 16-01, a landowner, permit applicant or "affected party" may elect to use a PJD in order to move ahead expeditiously to obtain a Corps permit authorization where the party determines that is in his/her best interest to do so. A permit decision made on the basis of a PJD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This PJD is for the aquatic resources listed in the attached aquatic resource table. Computation of impacts made on the basis of this PJD will treat all waters listed on the attached aquatic resource table as if they are jurisdictional waters of the U.S. As such, a Department of the Army permit will be required prior to the discharge of dredged and/or fill material into these aquatic resources. An AJD for these aquatic resources can be requested at any time.

Based on a review of Federal Regulations, a September 28, 2017 site visit, December 14, 2017 desk review, and coordination with the EPA beginning on December 21, 2017, one wetland, totaling approximately 0.051-acre, was determined to be an "isolated" wetland that lacks any known nexus to interstate commerce. As such, the wetland is not a water of the U.S. and a Department of the Army permit will not be required to conduct work, place structures, and/or discharge dredged and/or fill material into this wetland.

This determination has been conducted to identify the limits of the United States Army Corps of Engineers (USACE) CWA jurisdiction for the site identified in this request. However, this determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985 as amended. If you or your tenant are USDA program participants or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

This letter contains a PJD and an AJD for your subject site. If you wish to appeal the AJD, please see the enclosed sheets regarding the administrative appeal process for jurisdictional determinations: Notification of Appeals Process (NAP) fact sheet and Request for Appeal (RFA) form. If you object to this determination, you may request an administrative appeal under USACE regulations at 33 CFR Part 331. If you request to appeal this determination, you must submit a completed RFA form to the Southwestern Division Office at the following address:

Mr. Elliott Carman
Appeal Review Officer, CESWD-PD-O
U.S. Army Corps of Engineer Division,
Southwestern
1100 Commerce Street, Room 831
Dallas, Texas 75242-1731
Telephone: 469-487-7061; FAX: 469-487-7199

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete; that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within **60 days** of the date of the NAP. It is not necessary to submit an RFA form to the Division office if you do not object to the determination in this letter.

The AJD is valid for 5 years from the date of this letter unless new information warrants a revision prior to the expiration date.

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If you have any questions concerning this jurisdictional determination, please reference file number **SWG-2017-00512,** and contact Mr. Ryan Schwartzengraber at the letterhead address or by calling 409-766-3120. To assist us in improving our service to you, please complete the survey found at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0.

If you would prefer a hard copy of the survey form, please let us know and one will be mailed to you.

Sincerely,

John Davidson
Team Lead
Compliance Branch

Enclosures

		Aquatic Resources Table				
AR Name	Latitude/Longitude	Water Acreage	Wetland Acreage	Linear Feet	Type	Geograhpic Authority
Stewarts Creek	30.316248, -95.440431	0.045		123	RPW	404
Little Caney Creek and Wetland 1	30.31942, -95.430119	0.036	0.009	101	RPW with abutting wetland	404
Tributary of Little Caney Creek and Wetland 2	30.321009, -95.415324	0.031	0.05	150	RPW with abutting wetland	404
West Fork Crystal Creek/Wetland 5 and 6	30.324101, -95.397745	0.051	0.089	254	RPW with abutting wetland	404
West Fork Crystal Creek Trib./WL 7 and 8	30.326083, -95.388885	0.116	0.1	150	RPW with abutting wetland	404
Pond 2/Wetland 10	30.331641, -95.363066	0.09	0.004		Wetland/non-wetland	404
East Fork Crystal Creek	30.331575, -95.361678	0.058		210	RPW	404
Crystal CreekTrib. No. 3	30.332697, -95.355333	0.074		197	RPW	404
Trib. Of Caney Creek/Wetland 11	30.333141, -95.345913	0.02	0.001	197	RPW with abutting wetland	404
Pond 5/Wetland 12	30.333274, -95.335862		0.061		Wetland/non-wetland	404
Wetland 13	30.332888, -95.332807		0.018		Wetland	404
Pond 6/Wetland 14	30.333200, -95.333610	0.052	1.394		Wetland	404
Caney Creek	30.332888, -95.332807	0.146		261	RPW	404
Cagle Branch	30.332672, -95.324749	0.047		202	RPW	404
West Branch Spring Fork and Wetland 17	30.330486, -95.291152	0.037	0.002	175	RPW with abutting wetland	404
Spring Branch/Wetland 18A	30.329280, -95.268652	0.027	0.013	151	RPW with abutting wetland	404
Pond 10/Wetland 19	30.328492, -95.249177		0.033		Wetland/non-wetland	404
Lawrence Creek	30.328202, -95.241019	0.098		206	RPW	404
Trib. Of Lawrence Creek	30.327885, -95.235219	0.026		170	RPW	404
Open Water Pond	30.326983, -95.227140	0.027			non-wetland	404
Pond 12/Wetland 21	30.327309, -95.226899		0.354		Wetland	404
Pond 13/Wetland 22	30.326885, -95.226836		0.02		Wetland	404
Pond 14/Wetland 23	30.327388, -95.225672		0.965		Wetland	404
Wetland 24	30.326895, -95.226501		0.038		Wetland	404
Peach Creek	30.327309, -95.226899	0.179		320	RPW	404
Pond 15/Wetland 27	30.326347, -95.211671		0.041		Wetland	404
Pond 16/Wetland 28	30.326241, -95.210206		0.019		Wetland	404
Pond 17/Wetland 29	30.325918, -95.204833		0.24		Wetland	404
Shell Branch/ Wetland 31 and 32	30.324839, -95.198469	0.063	0.025	252	RPW with abutting wetland	404
Trib to Jayhawker Creek/Wetland 33 and 34	30.316565, -95.198469	0.06	0.031	325	RPW with abutting wetland	404
Jayhawker Creek/Wetland 35, 36 and 37	30.317401, -95.182745	0.063	0.172	261	RPW with abutting wetland	404
Trib of Bee Branch and Wetland 38 and 39	30.321649, -95.165587	0.051	0.027	238	RPW with abutting wetland	404
Bee Branch and Wetland 41 and 42	30.324700, -95.153738	0.141	0.003	151	RPW with abutting wetland	404
Unnamed Drainage and Wetland 43	30.326218, -95.147839	0.026	0.009	152	Wetland/non-wetland	404
Unnamed Drainage and Wetland 44 and 45	30.327896, -95.143408	0.027	0.897	112	Wetland/non-wetland	404
Wetland 25 (Not included in total acreage)	30.326734, -95.224340		0.051		Isolated Wetland	None
	TOTALS	1.591	4.615	4358		

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: TEXAS DEPARTMENT OF TRANSPORTATION	File Number: SWG 2017-00512	Date: 02/26/2018

Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
X	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

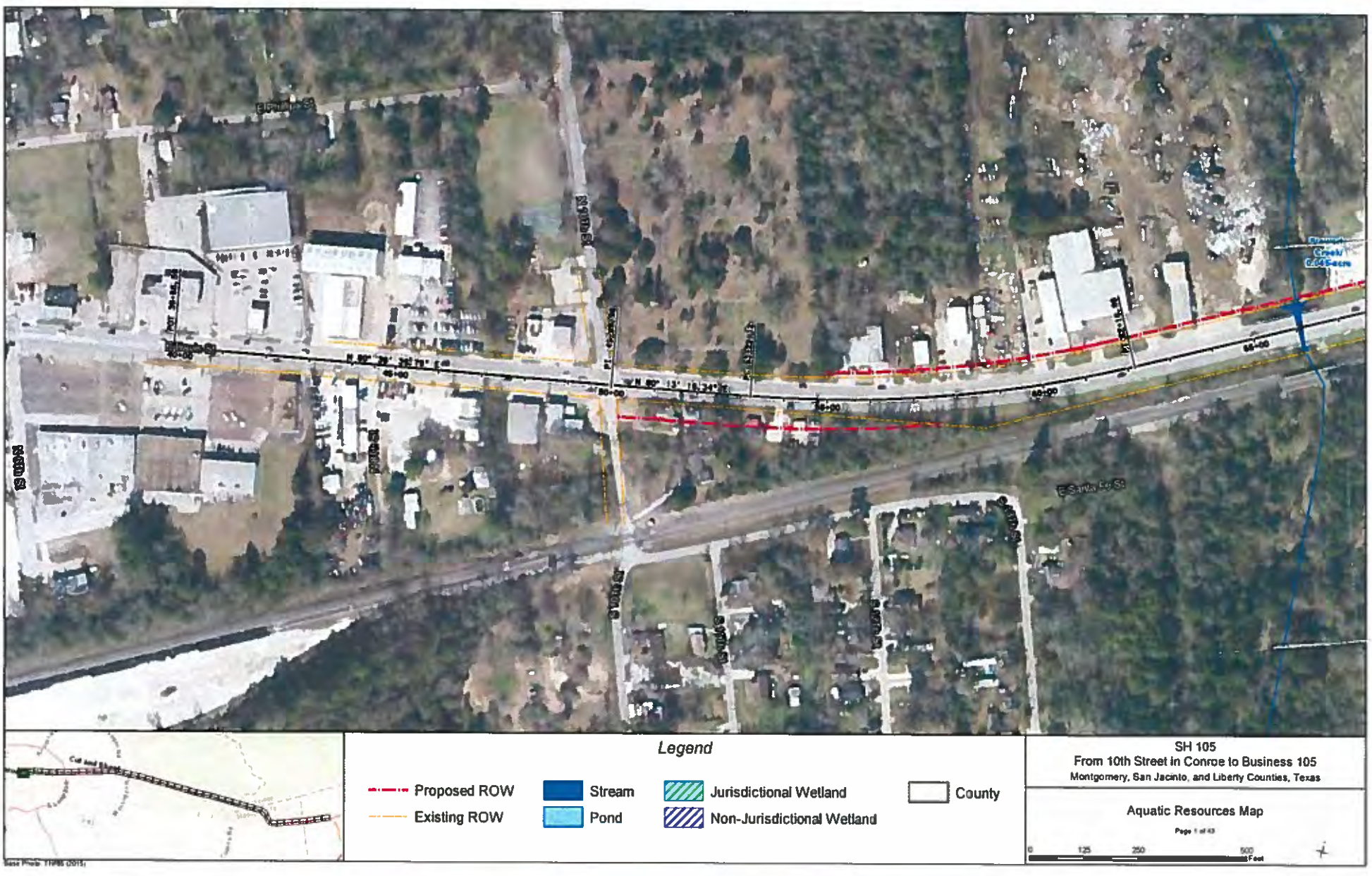
ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
Mr. Ryan Schwartzengraber Regulatory Specialist CESWG-RD-C U.S. Army Corps of engineers P.O. Box 1229 Galveston, Texas 77553-1229 409-766-3120 FAX: 409-766-3931 r	Mr. Elliott Carman Administrative Appeals Review Officer (CESWD-PD-O) U.S. Army Corps of Engineers 1100 Commerce Street, Suite 831 Dallas , Texas 75242-1317 469-487-7061

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		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From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
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Stewarts Creek
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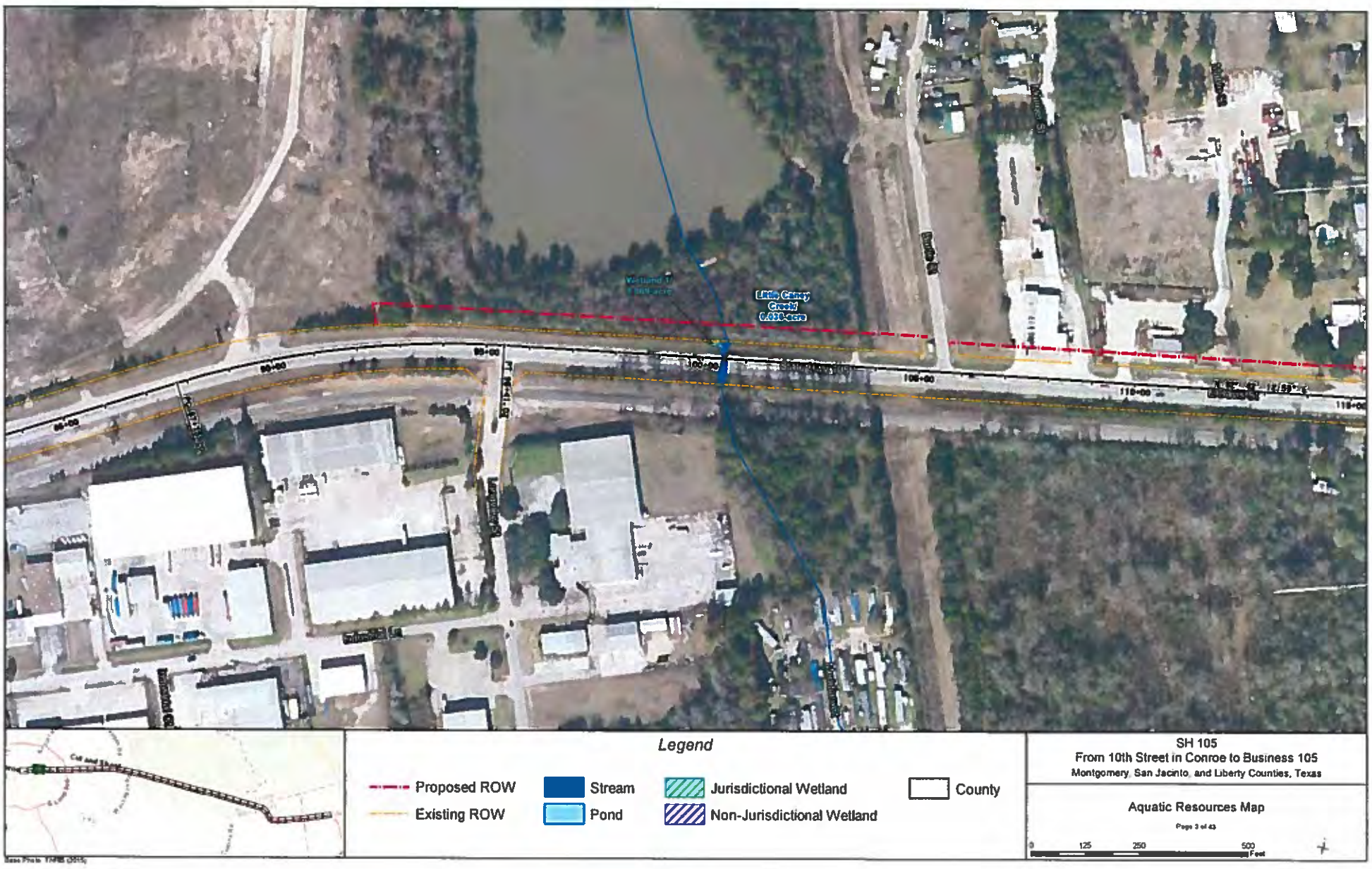
Little Caney Creek
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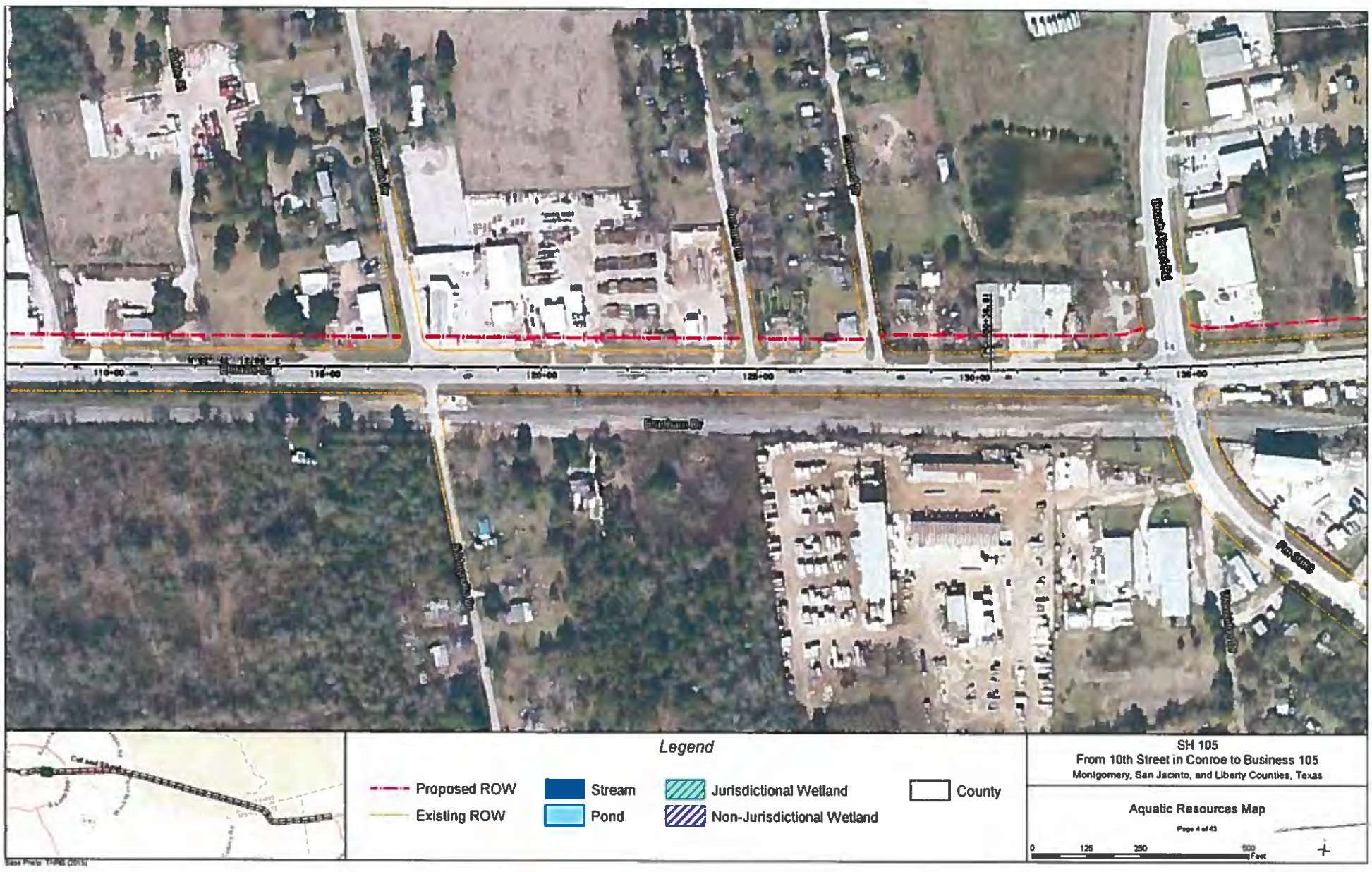
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Aquatic Resources Map
Page 4 of 43
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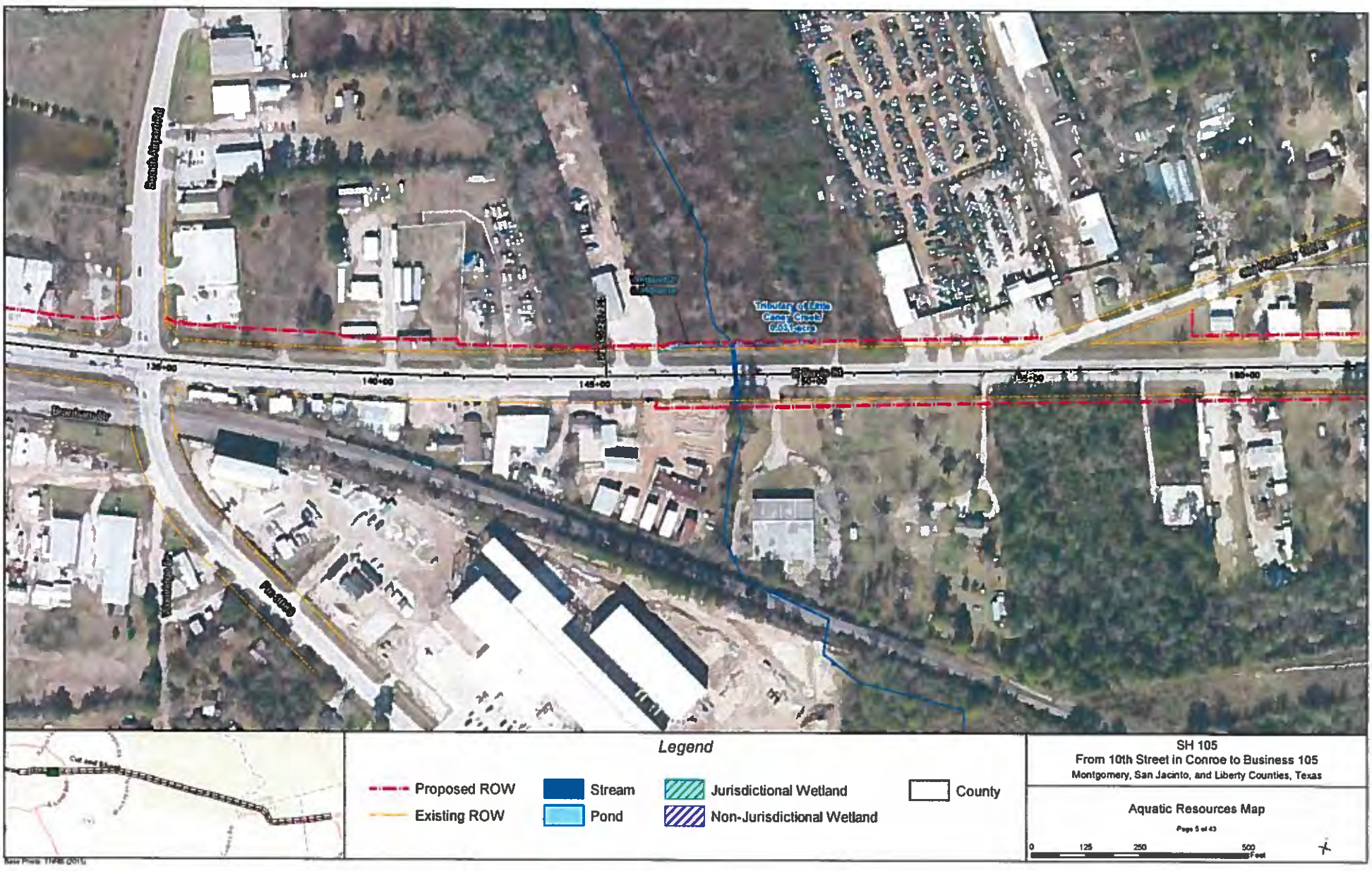
Tributary of Little Caney Creek
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Montgomery, San Jacinto, and Liberty Counties, Texas
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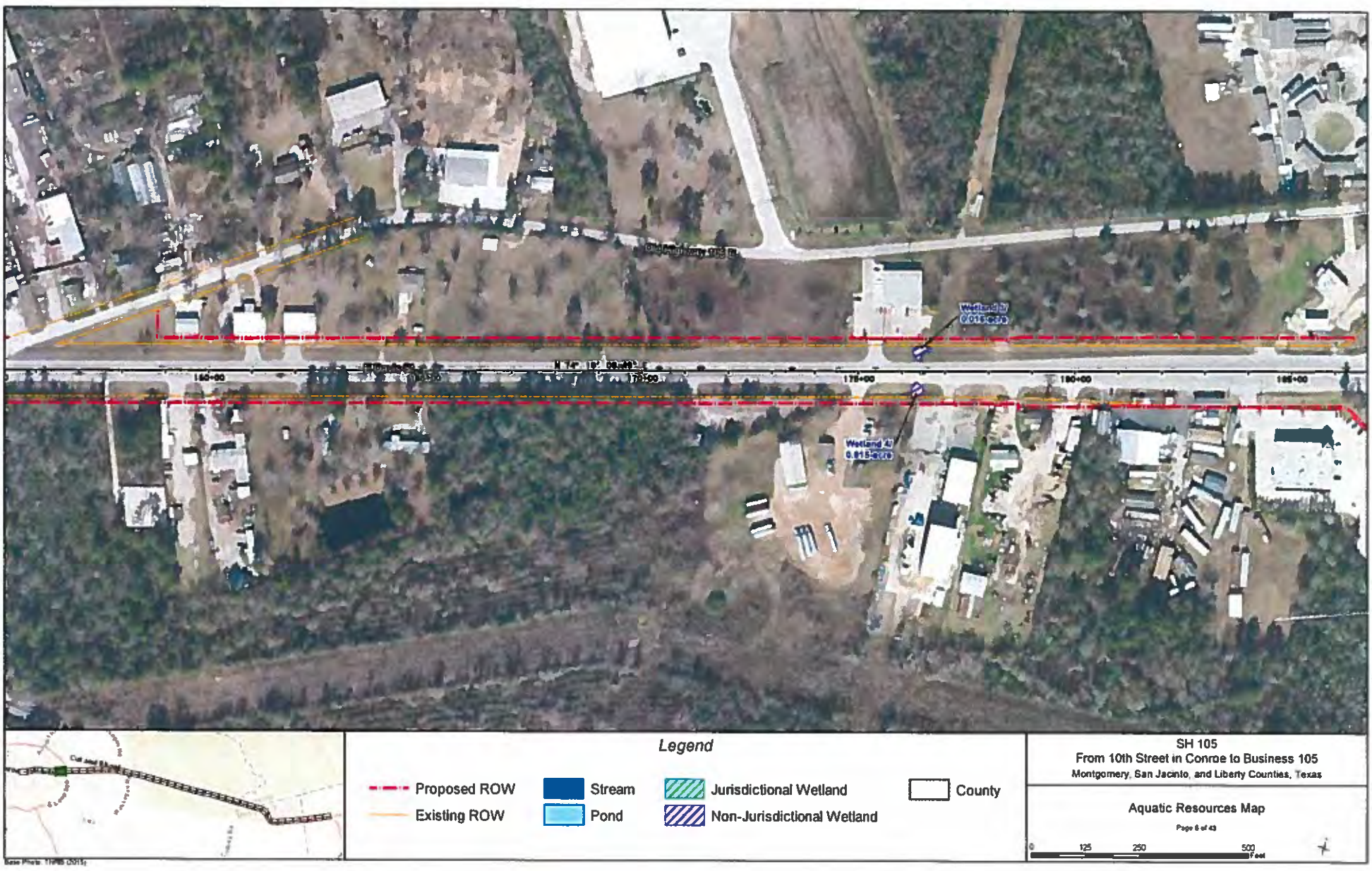
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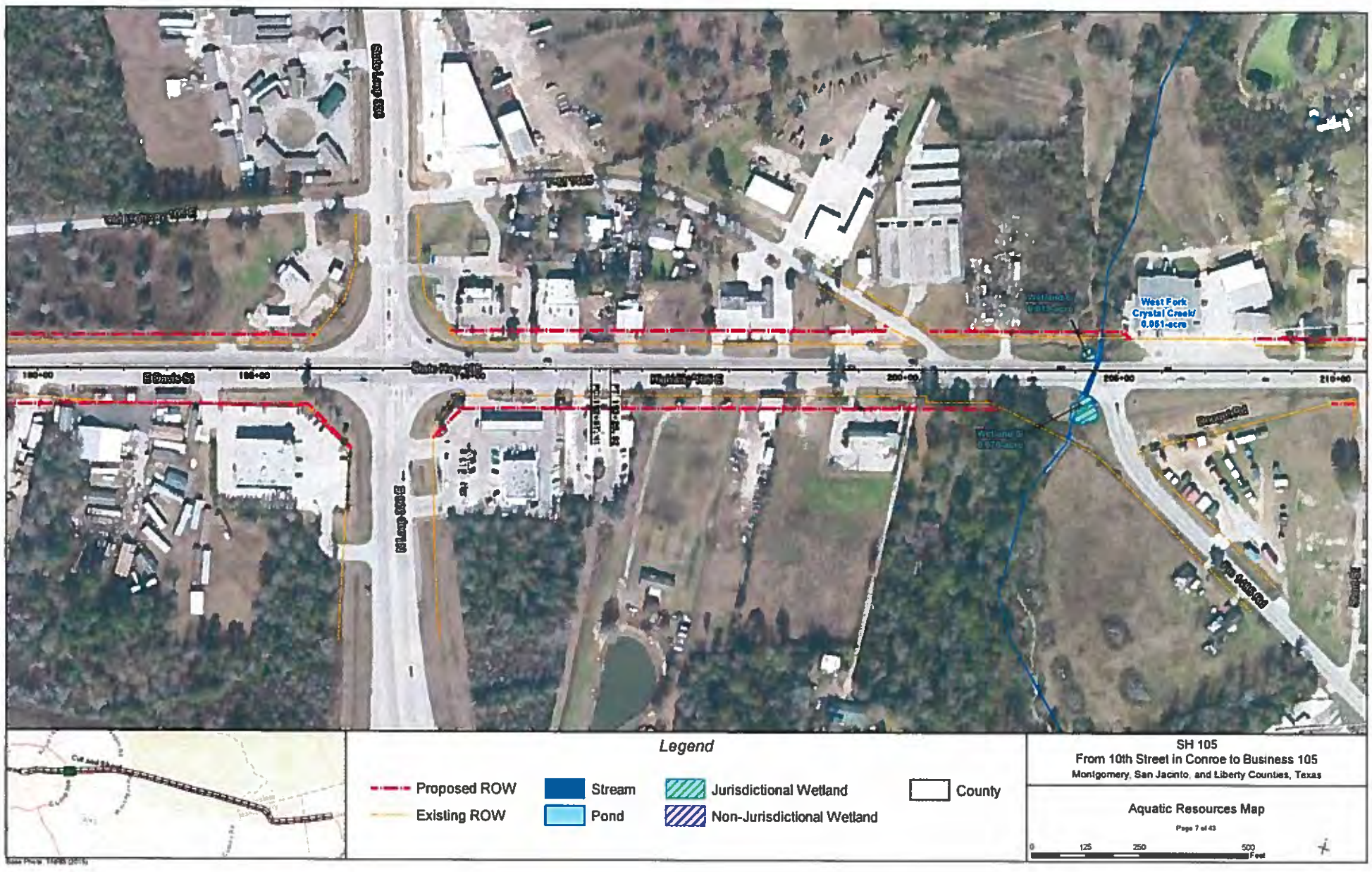
West Fork
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Aquatic Resources Map
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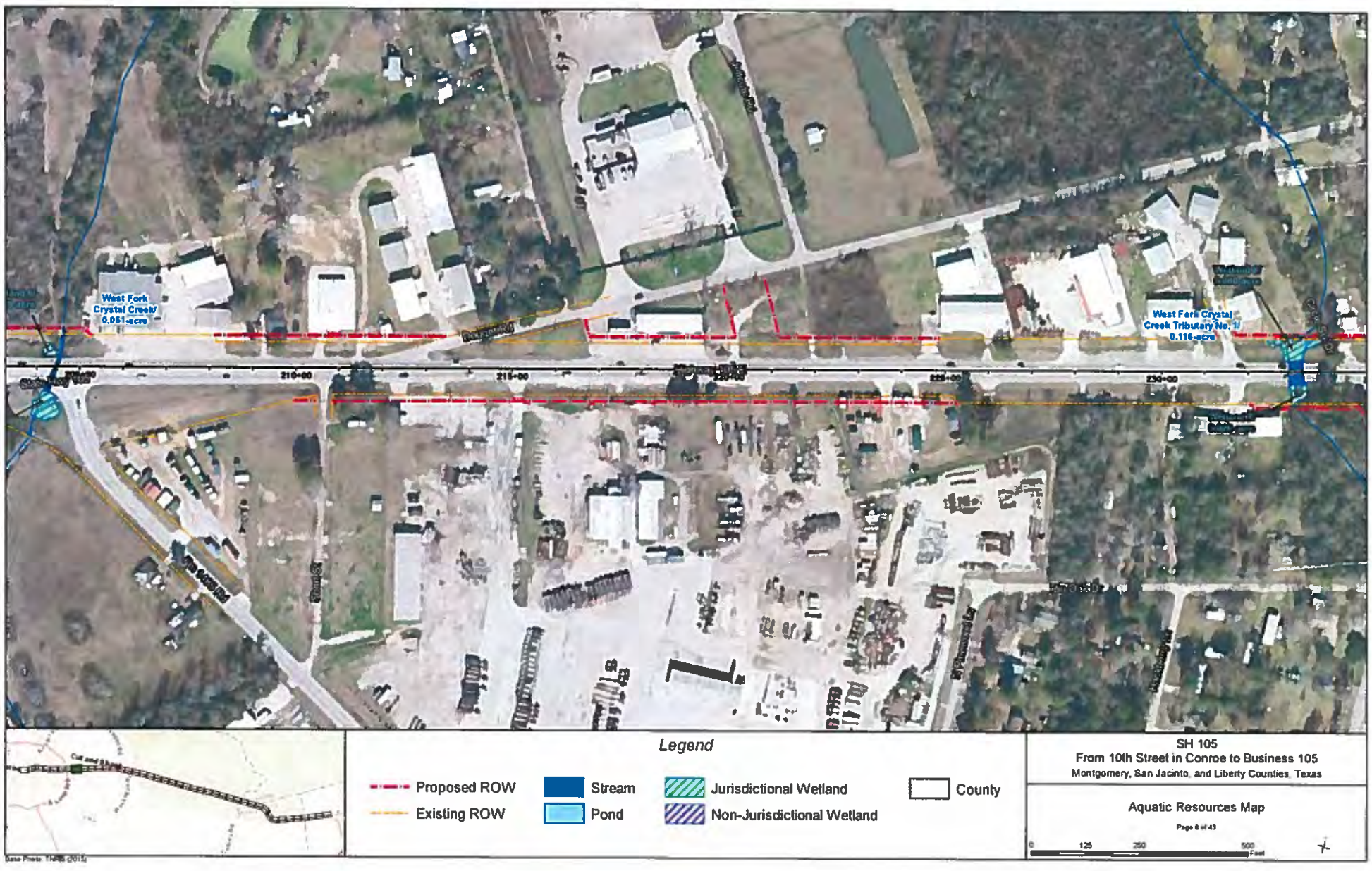

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SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Aquatic Resources Map

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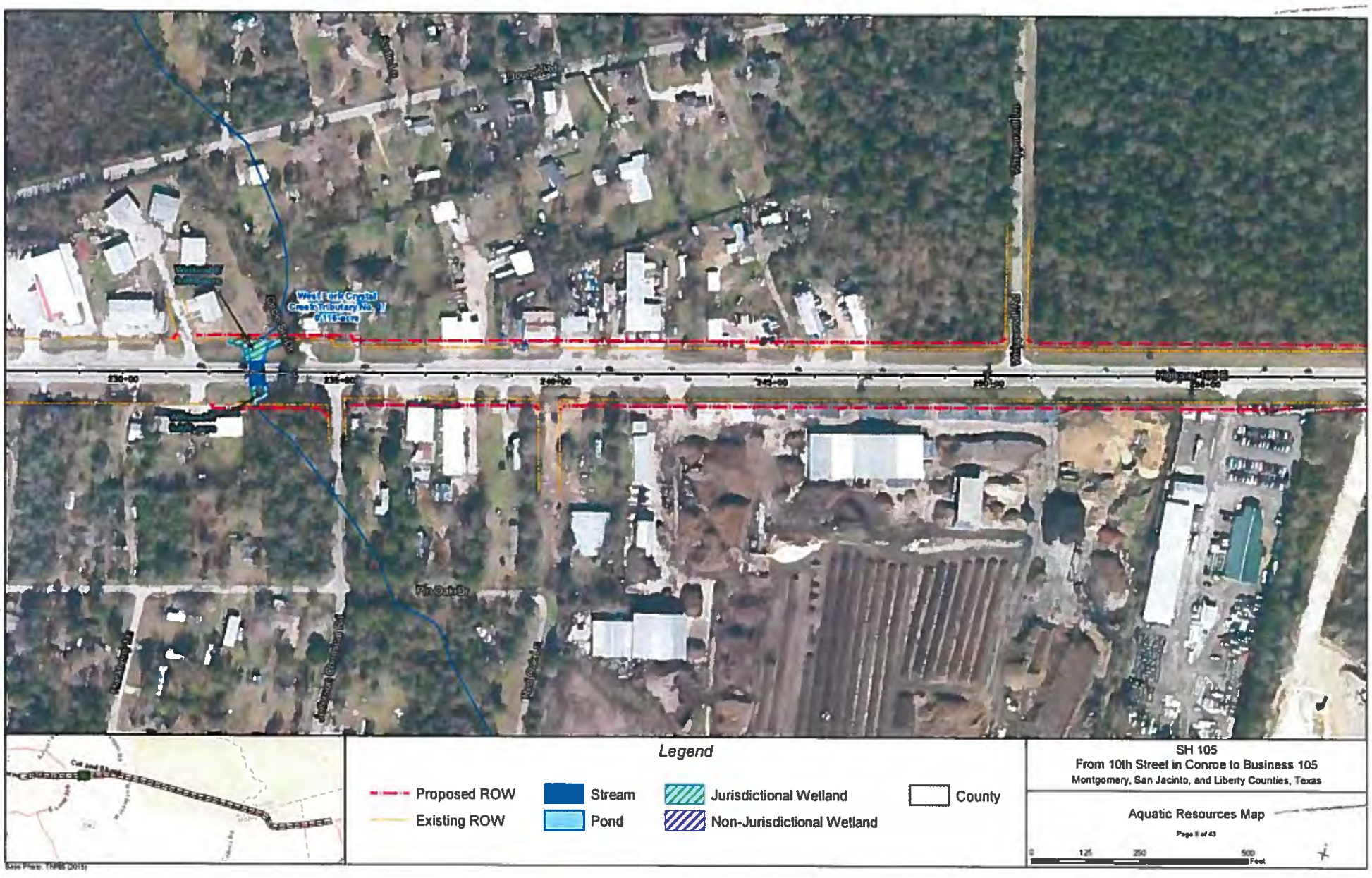
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From 10th Street in Conroe to Business 105
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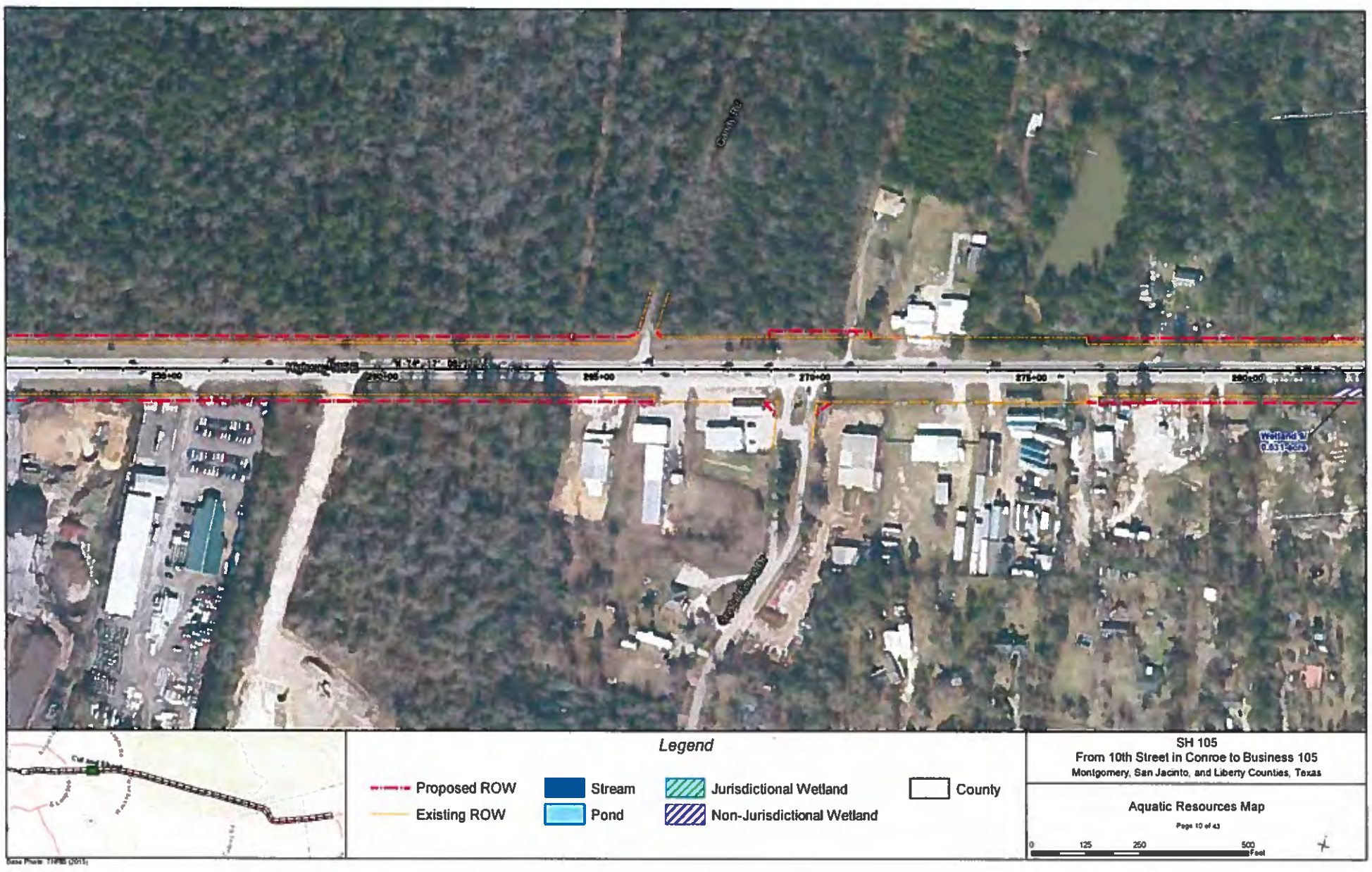
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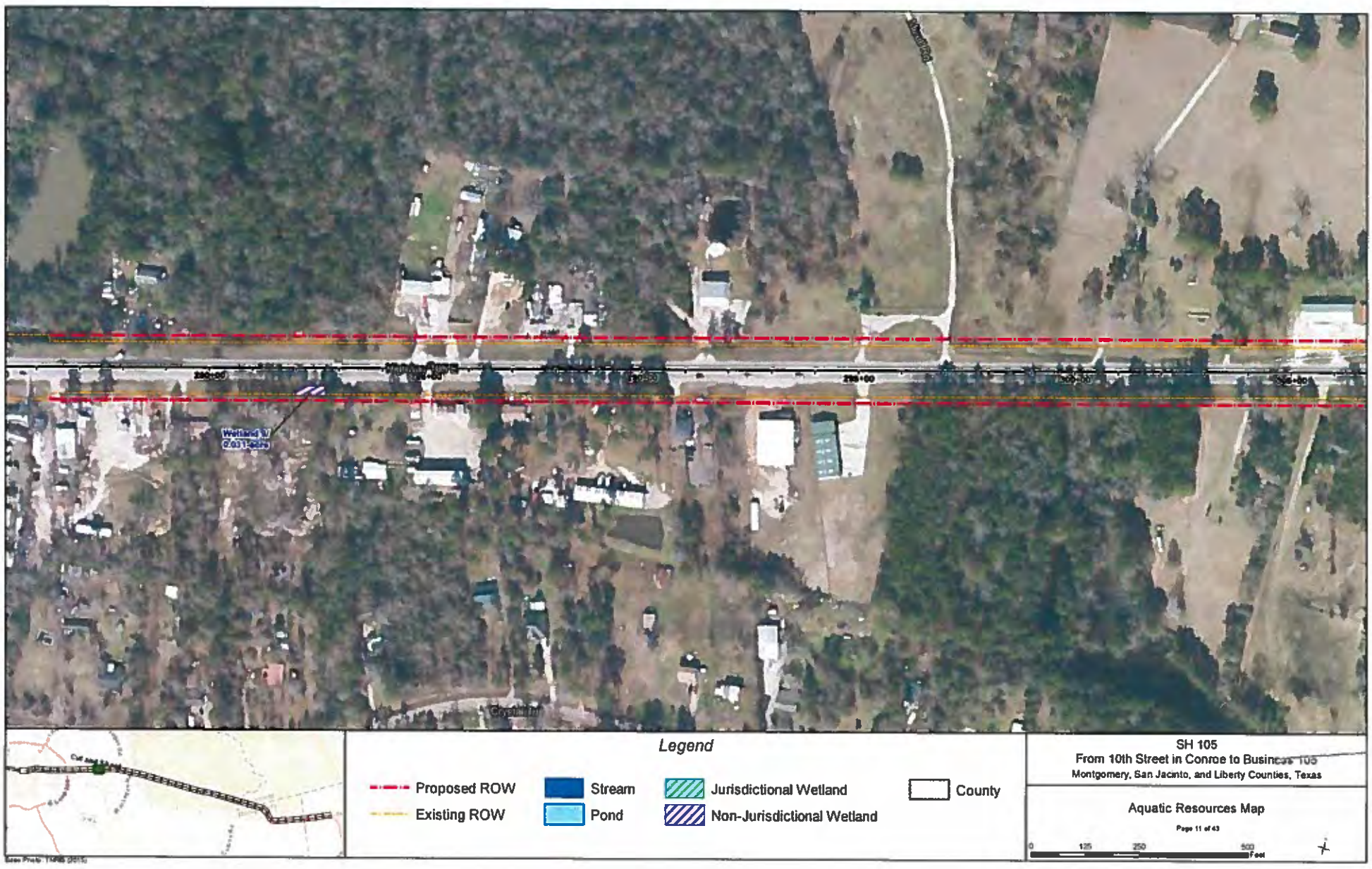
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Aquatic Resources Map
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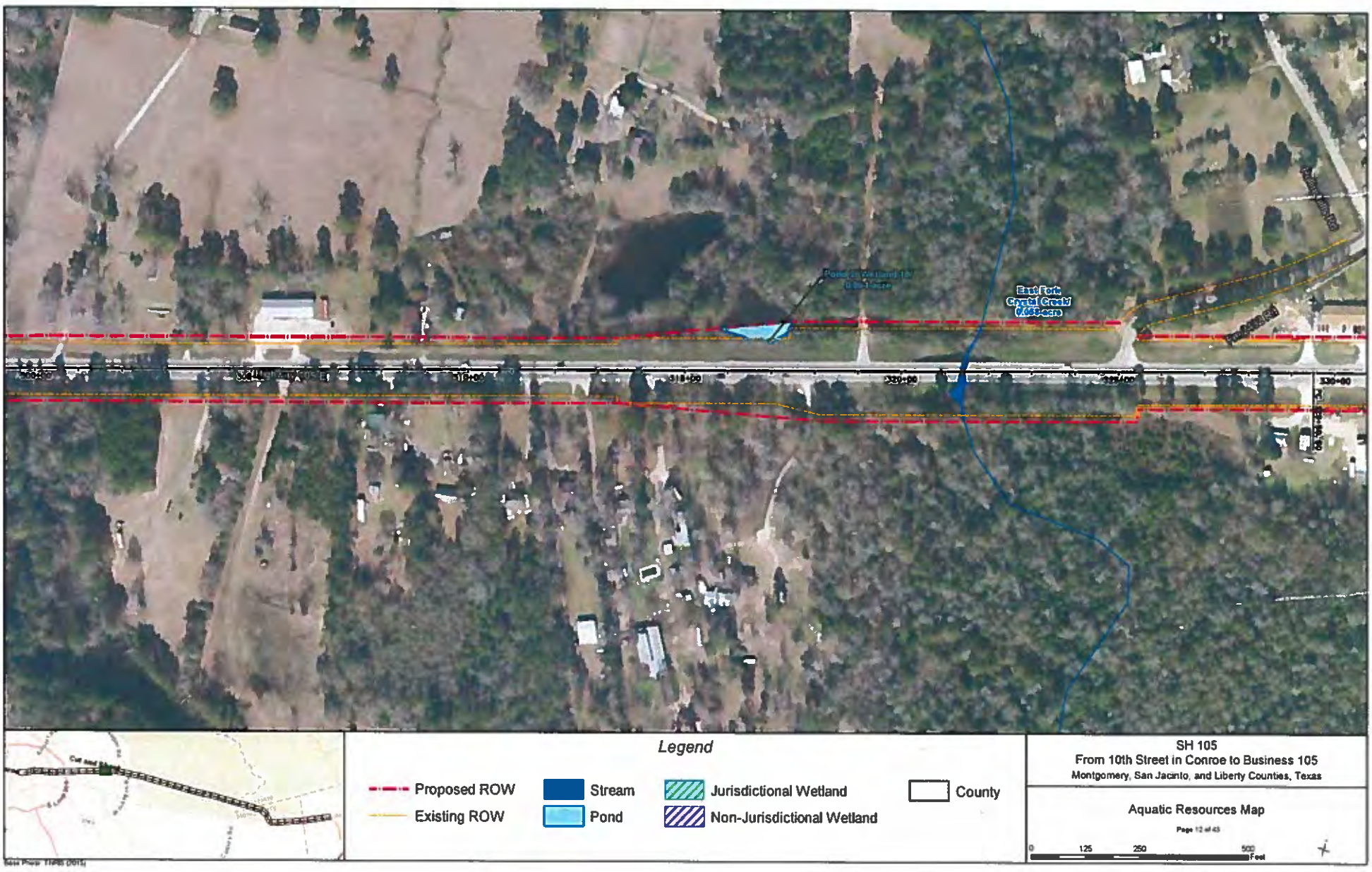
East Fork
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From 10th Street in Conroe to Business 105
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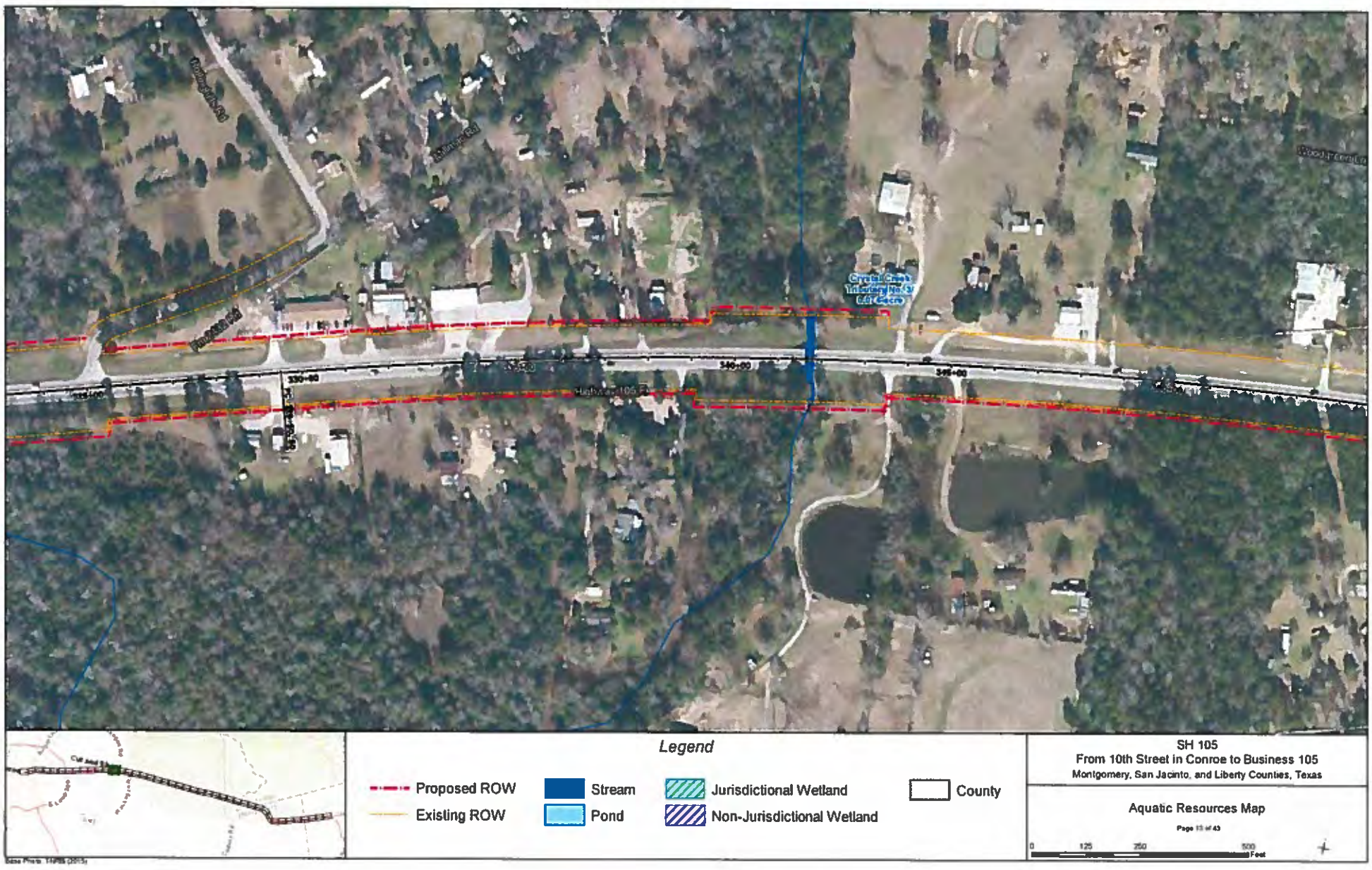
Crystal Creek Tributary No. 3 (UT Creek)
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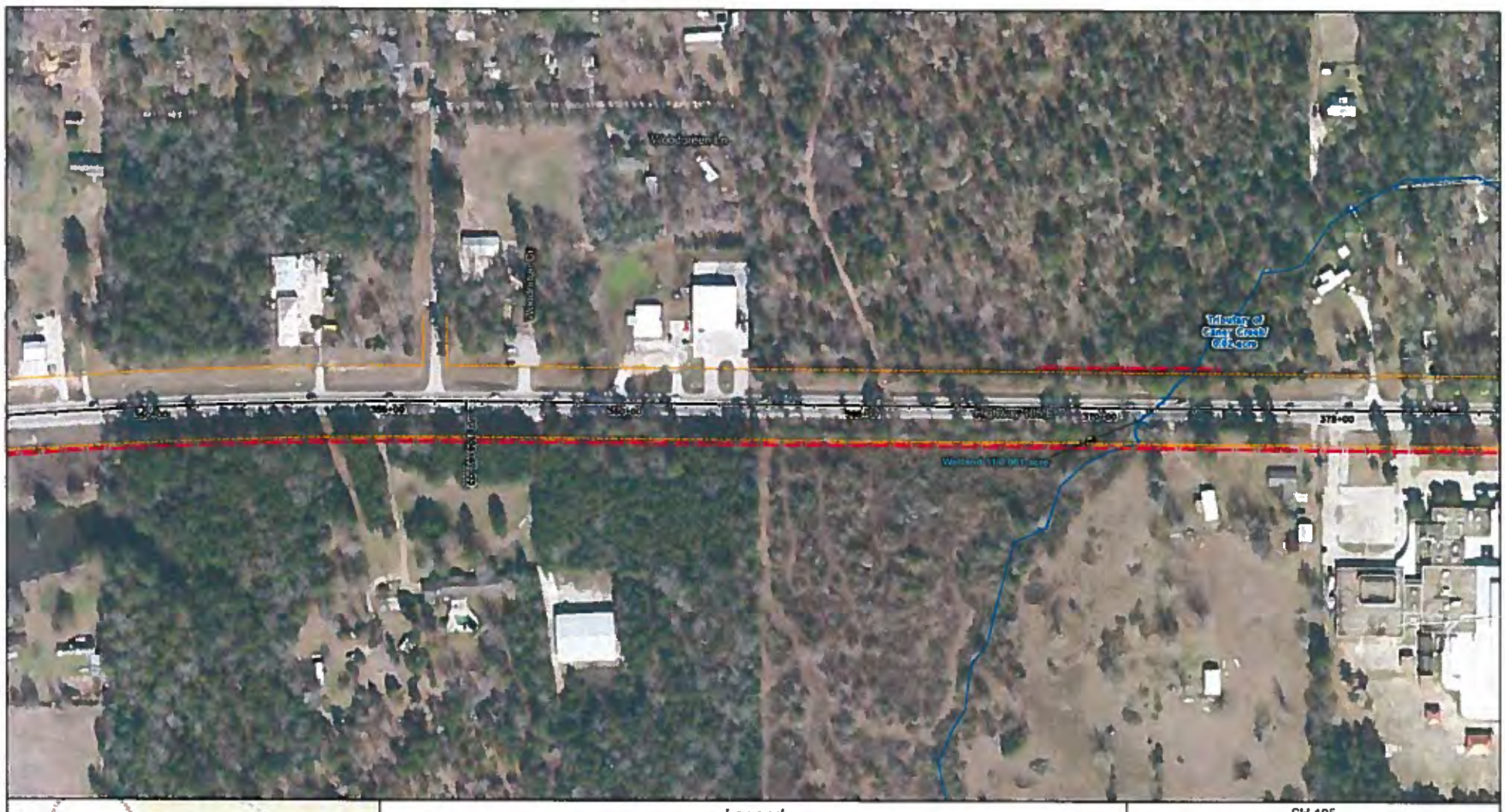

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SH 105
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Aquatic Resources Map

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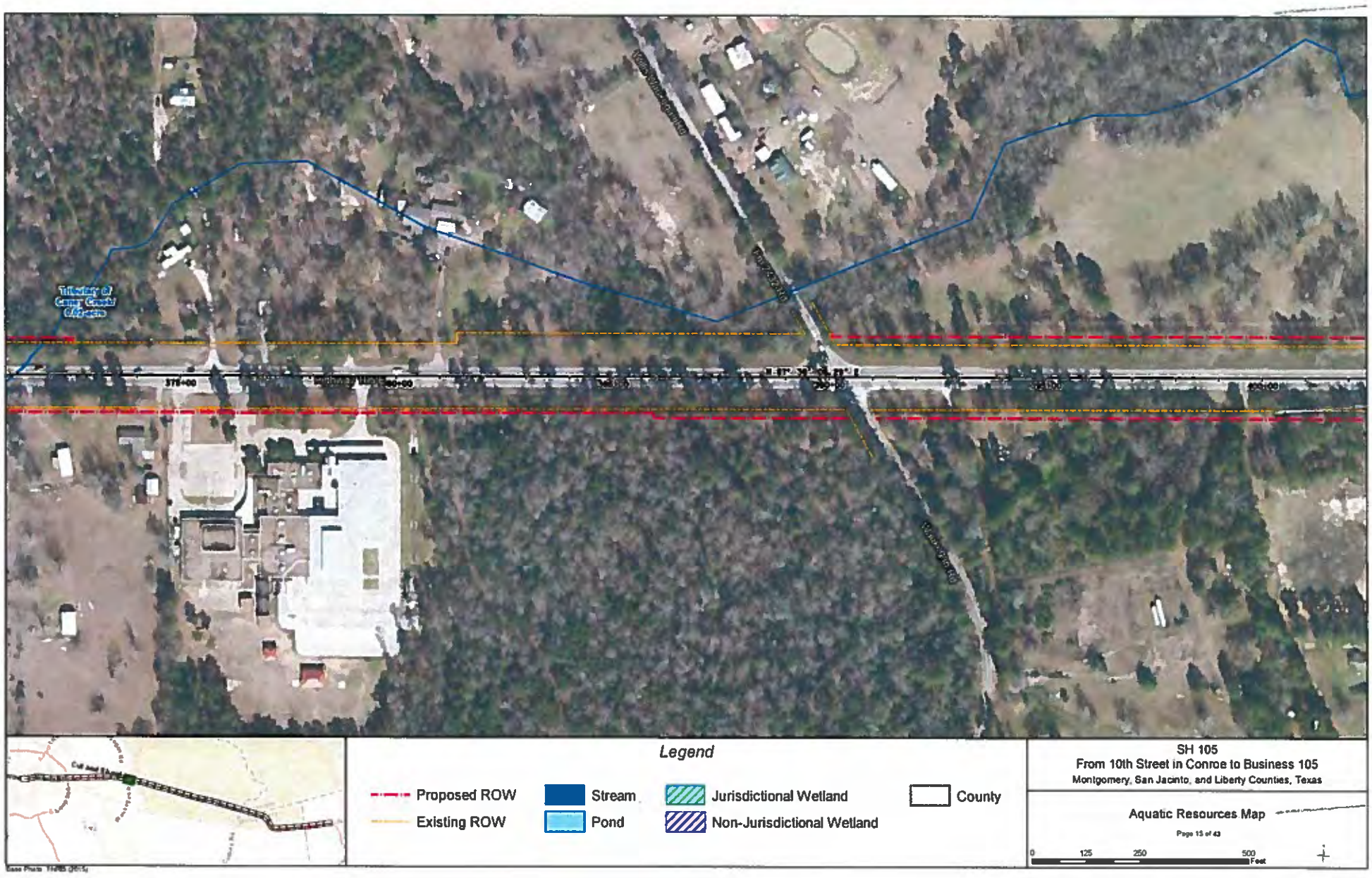
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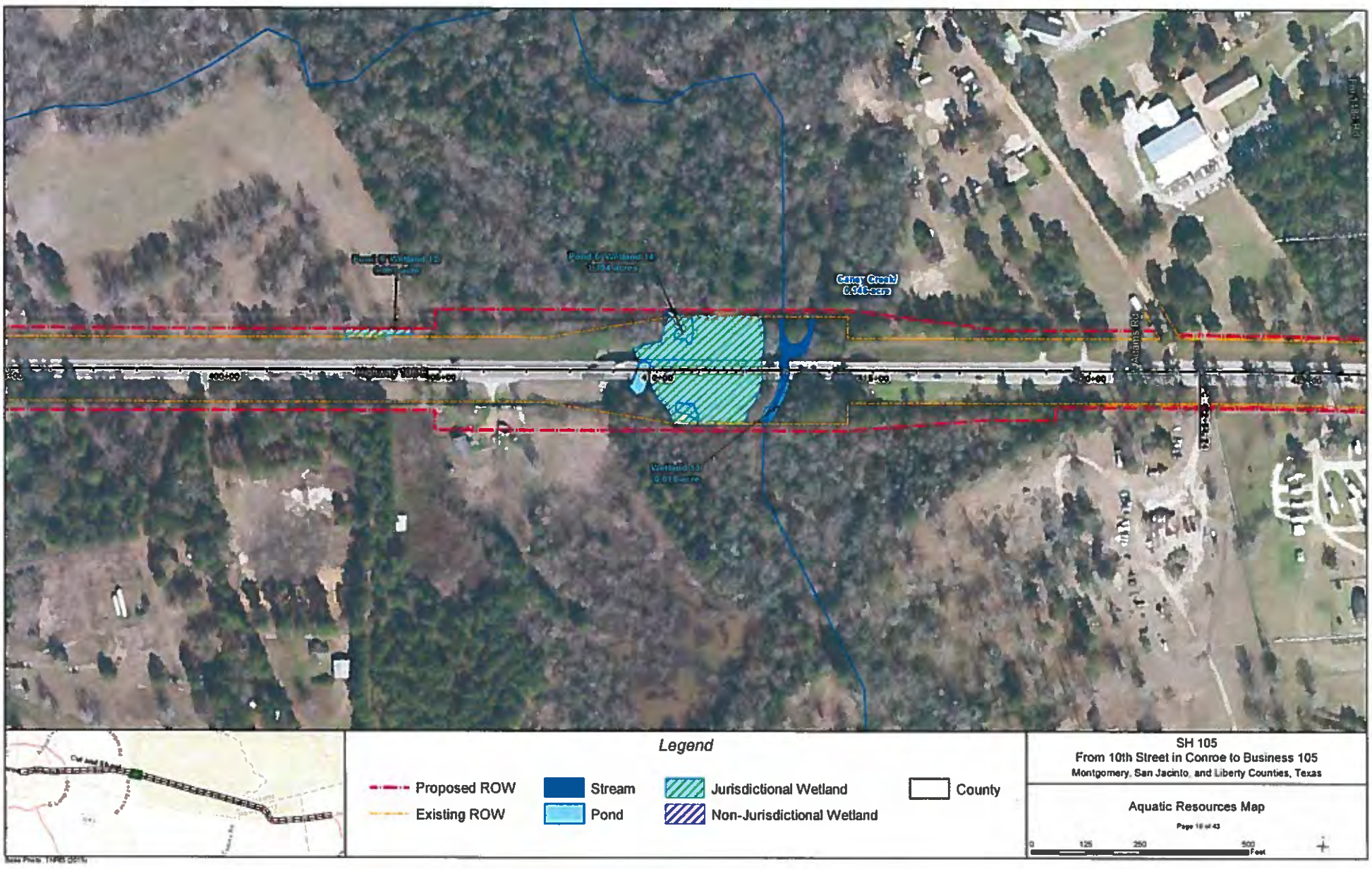
Pond 6 Wetland 14
Caney Creek
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Wetland 13
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Adams Rd
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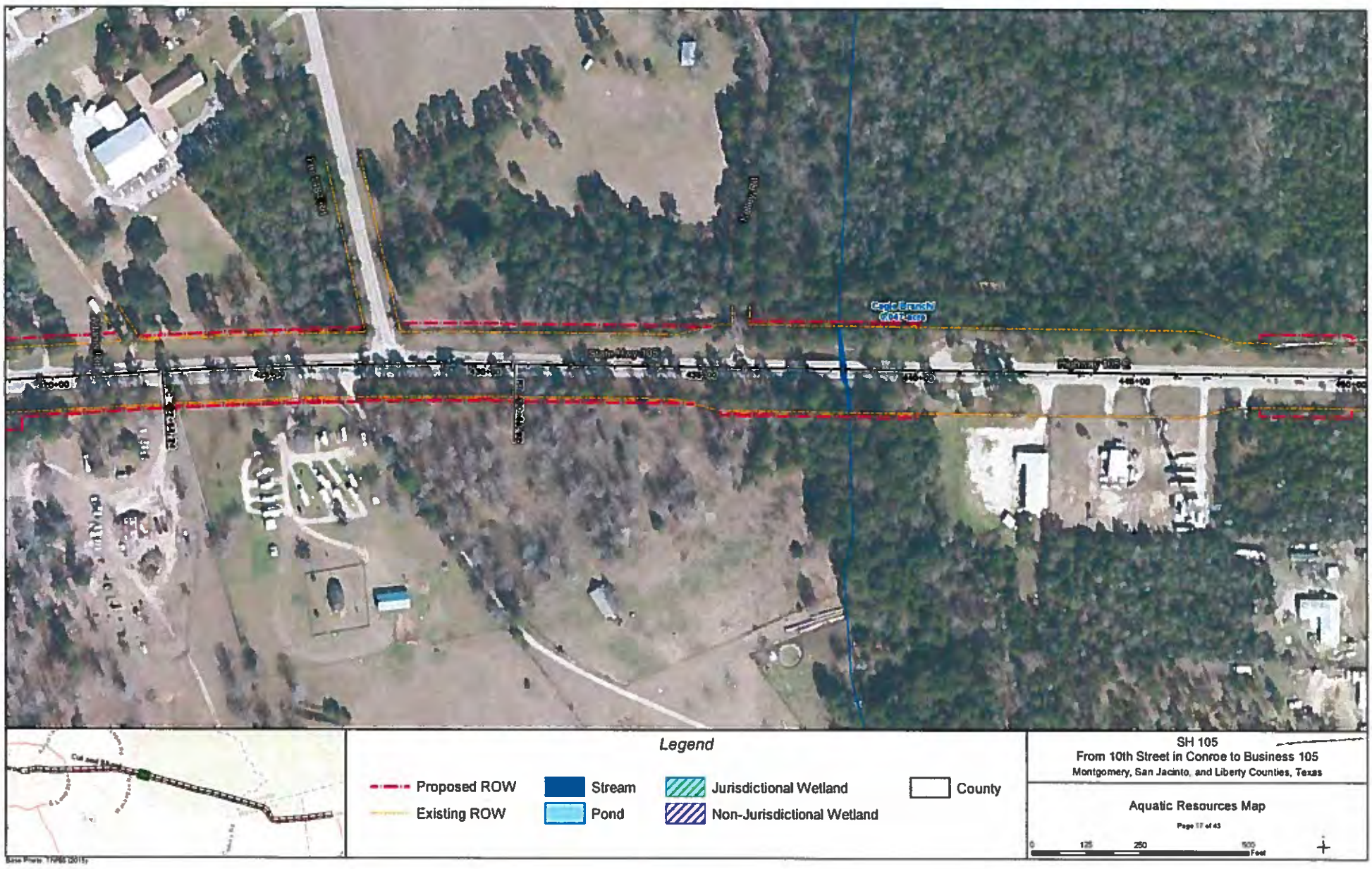
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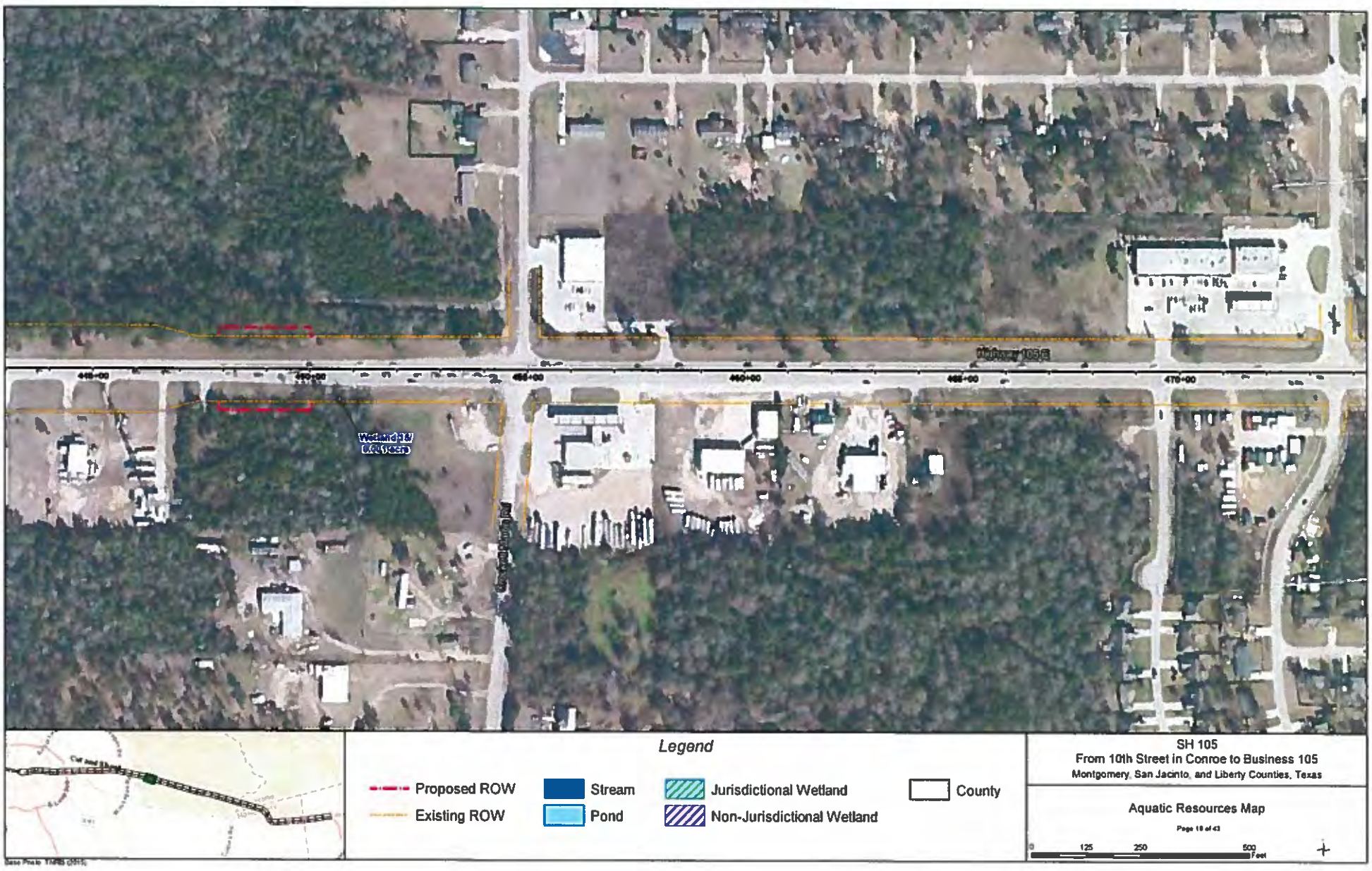
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Legend

- Proposed ROW
- Existing ROW
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland
- County

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Aquatic Resources Map

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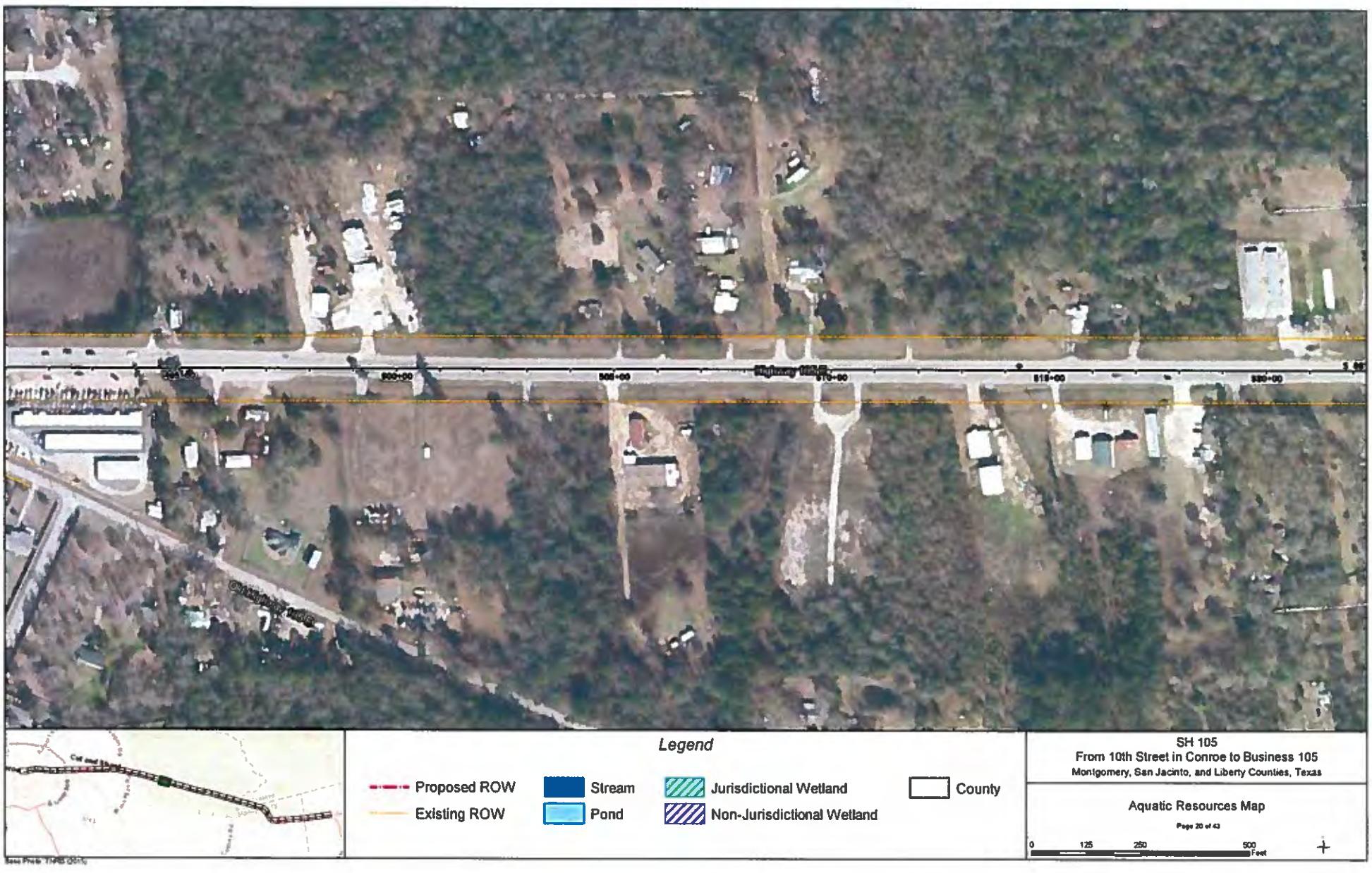
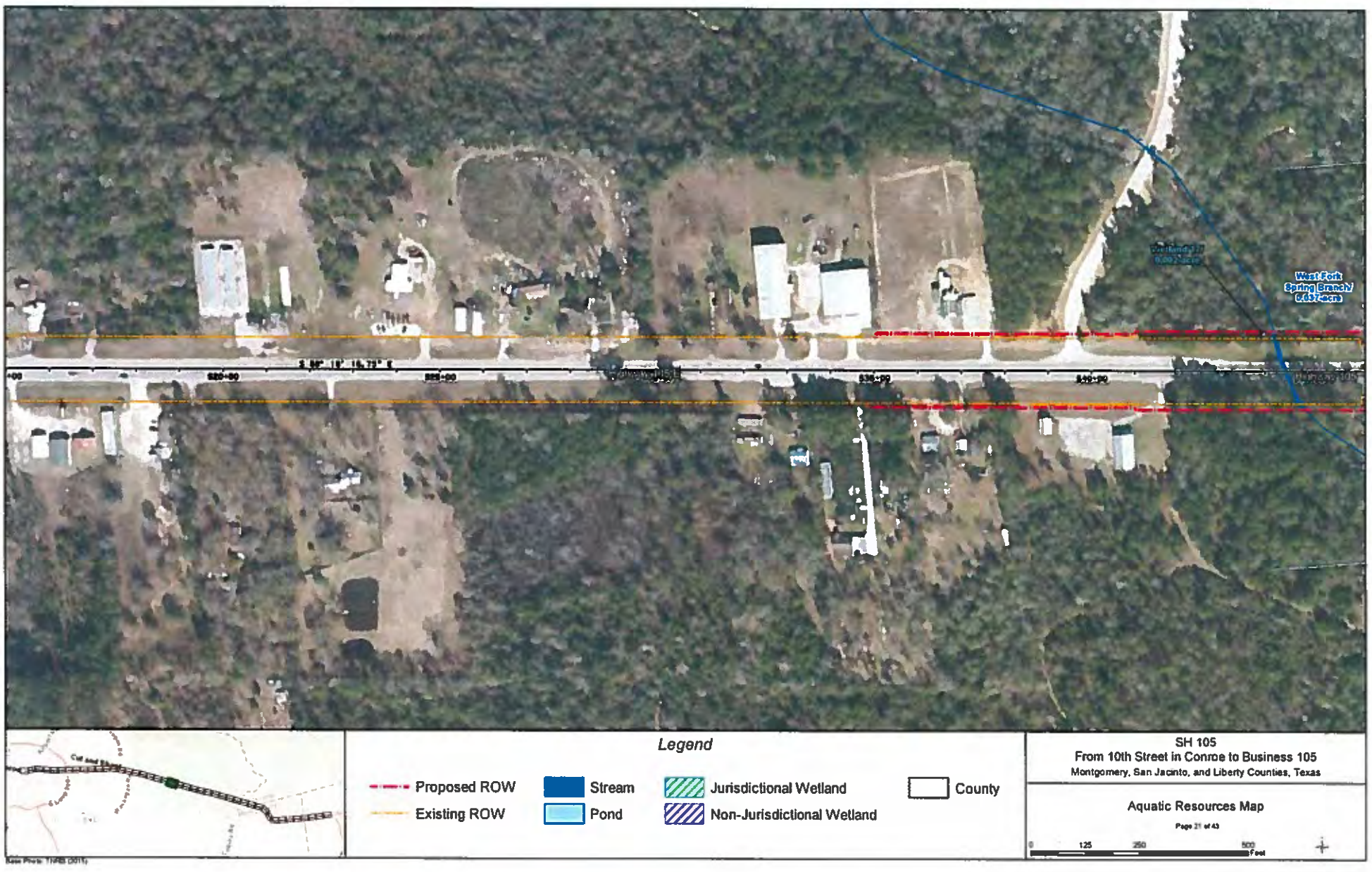
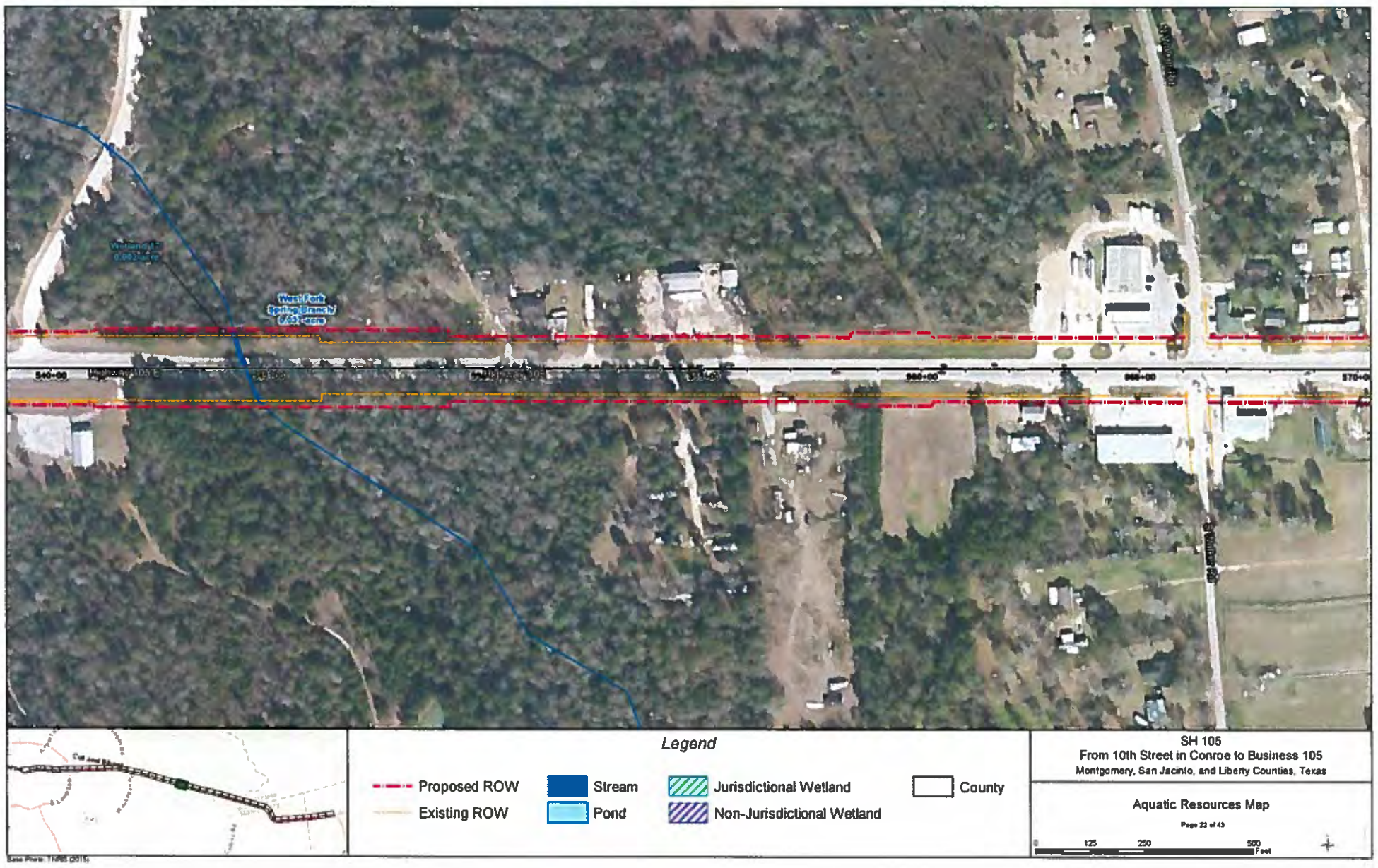
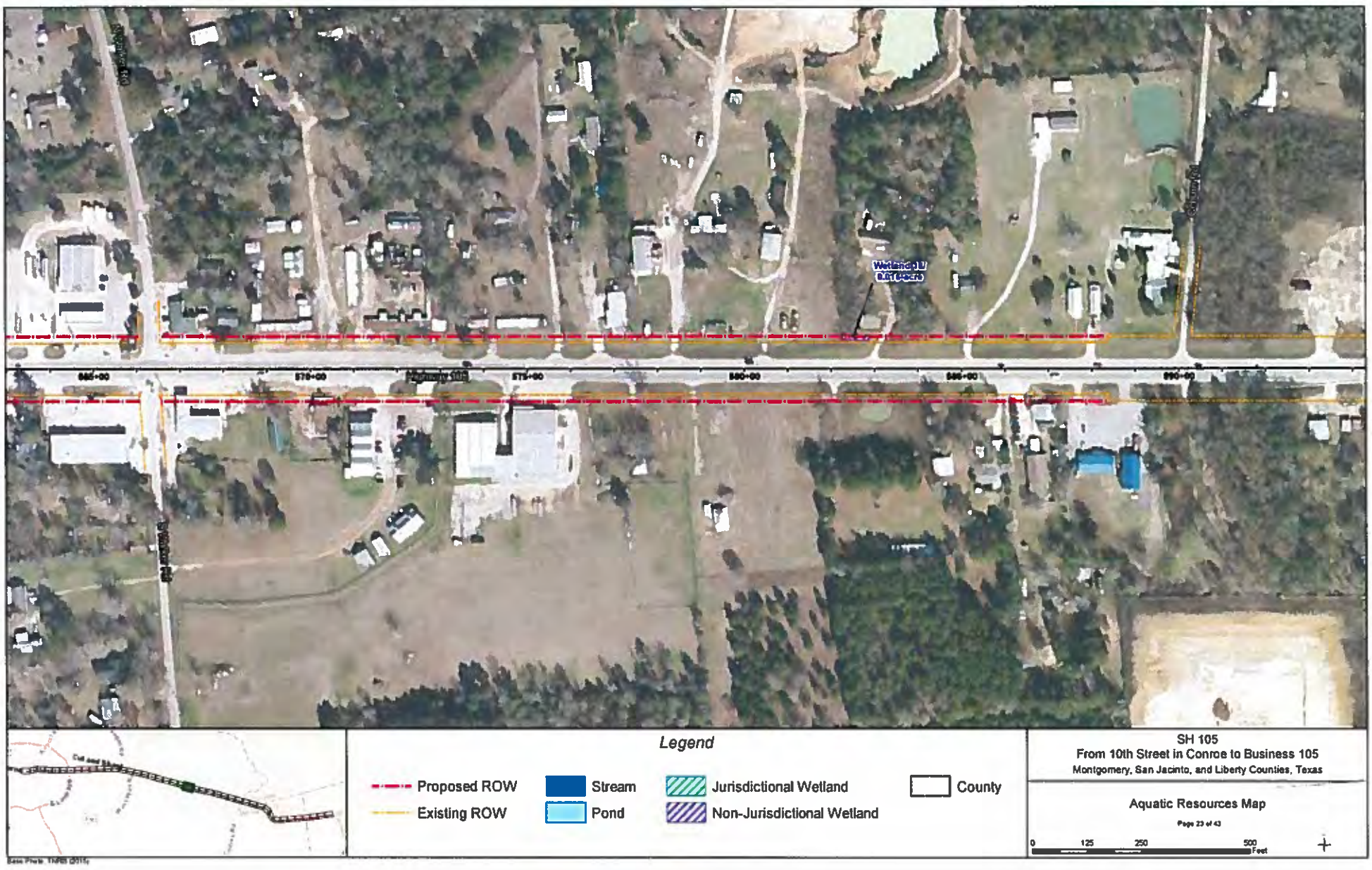
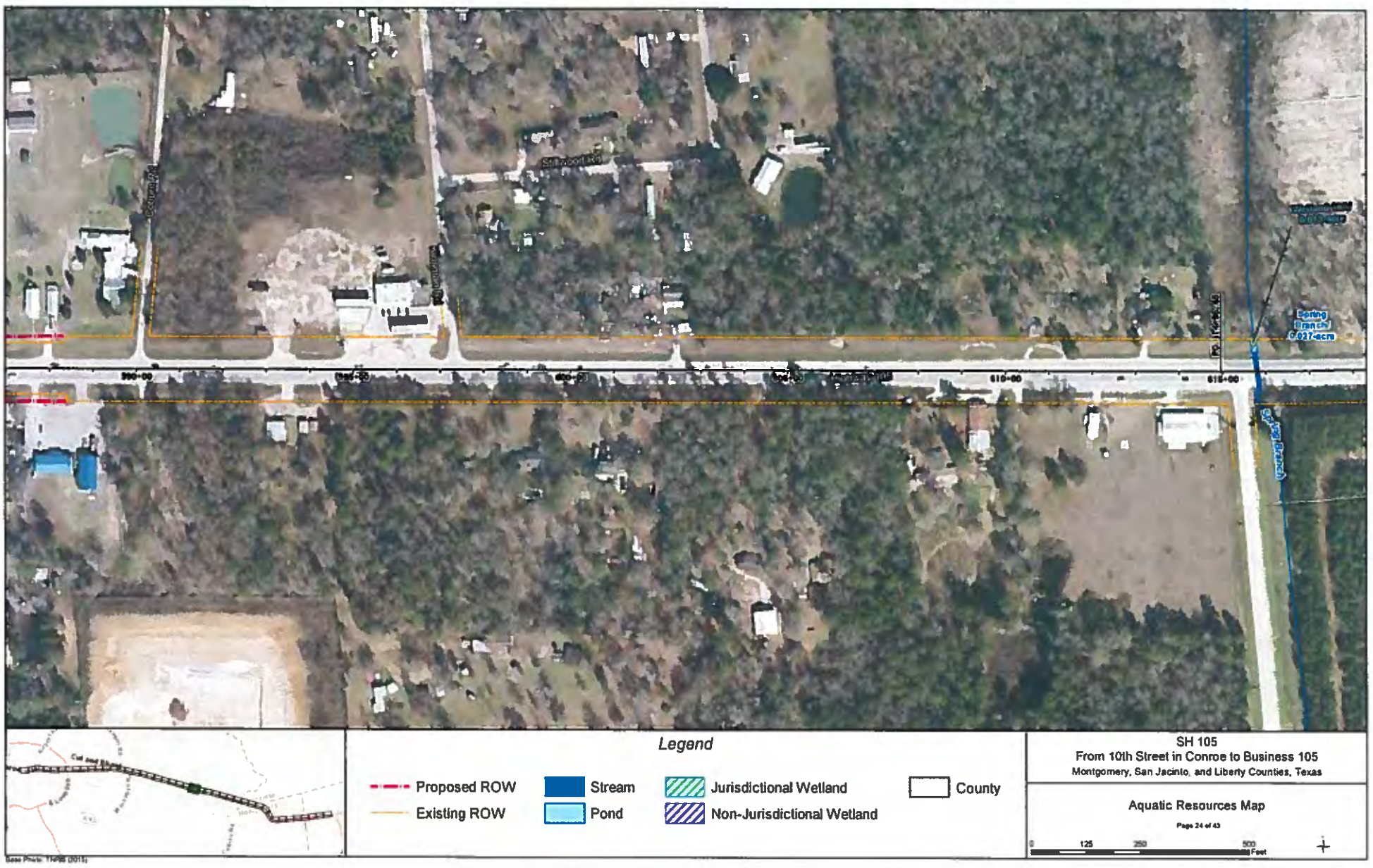
0 125 250 500 Feet

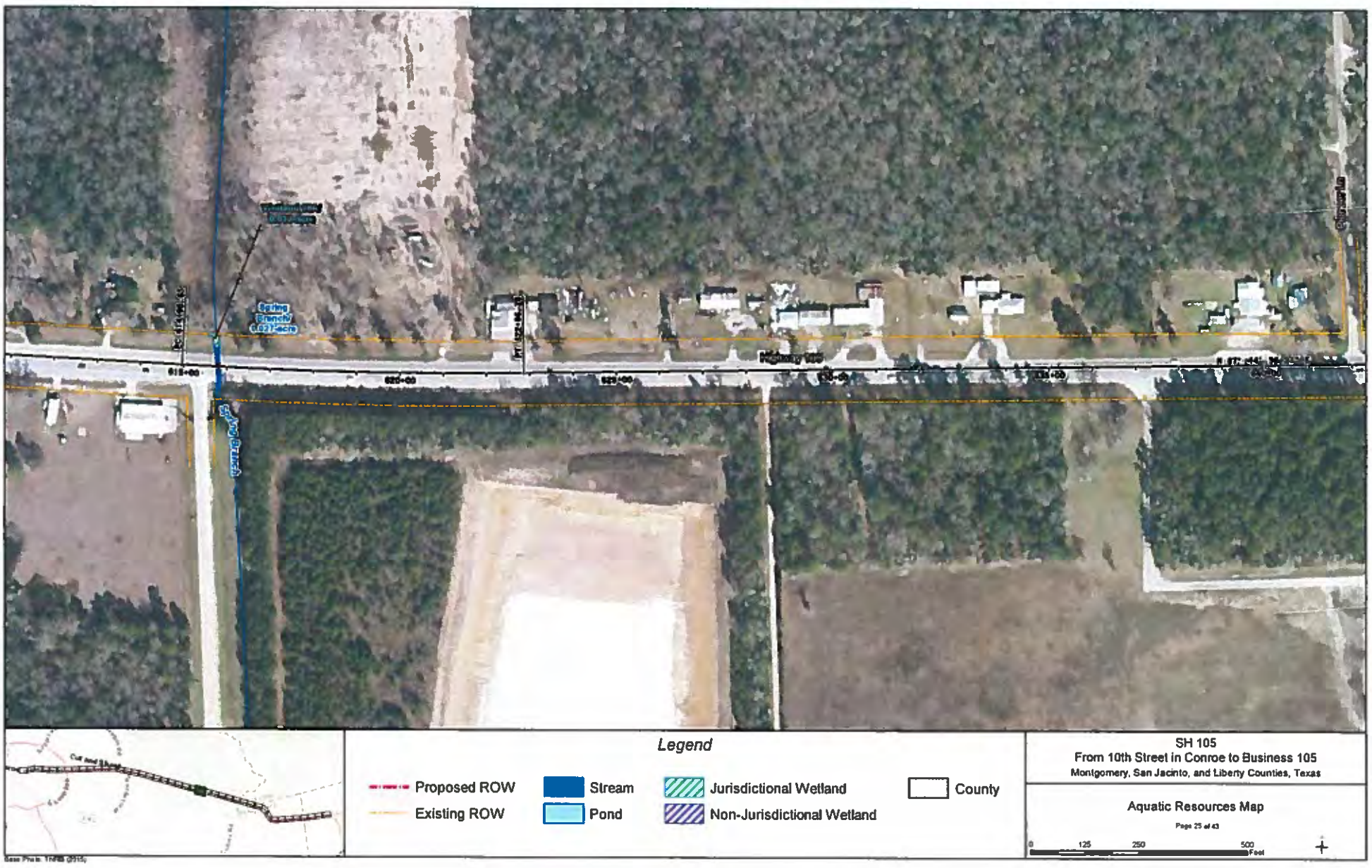

Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

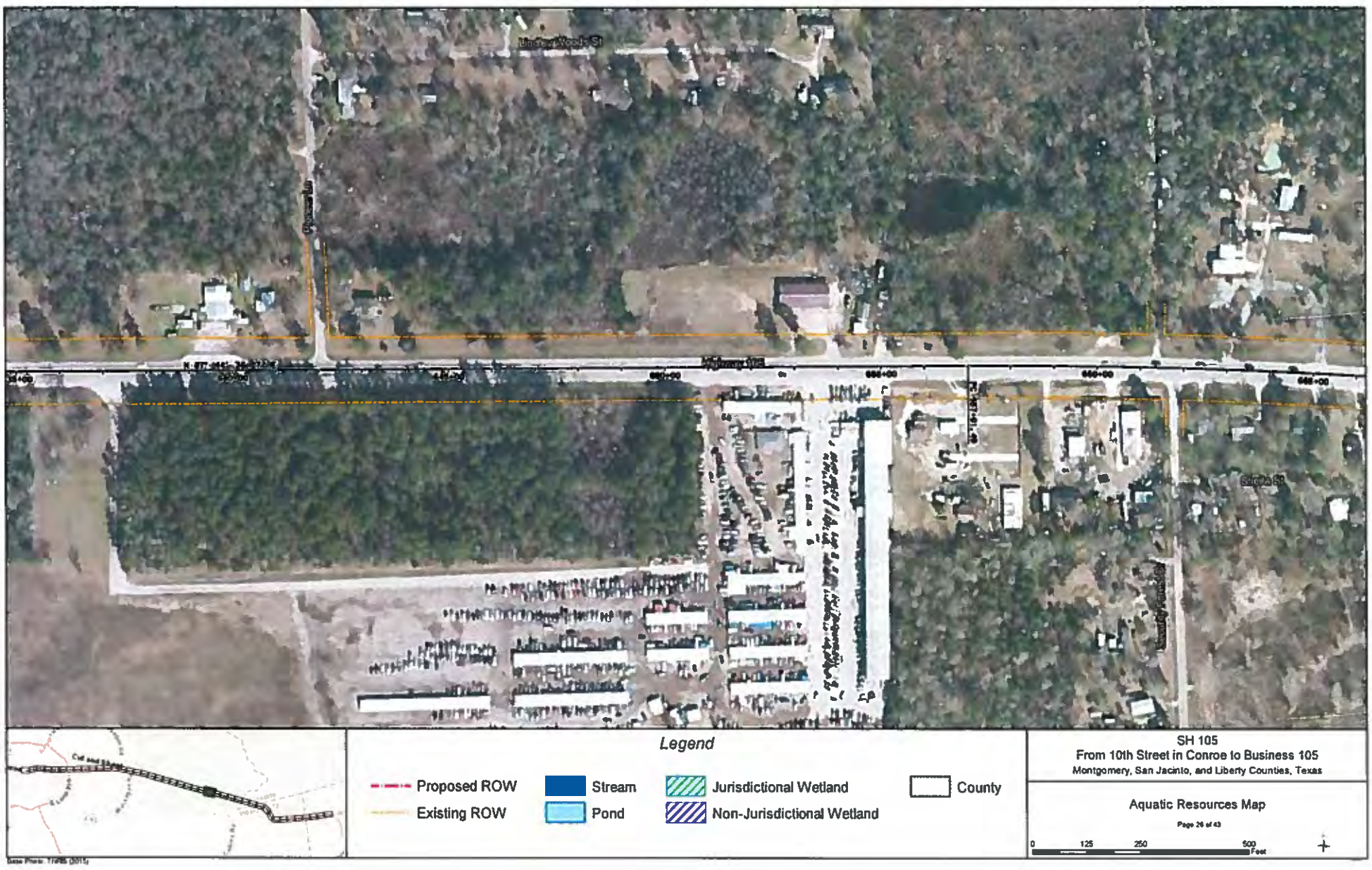

West Fork
Spring Branch/
0.057 acre
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 21 of 43
0
125
250
500
Feet

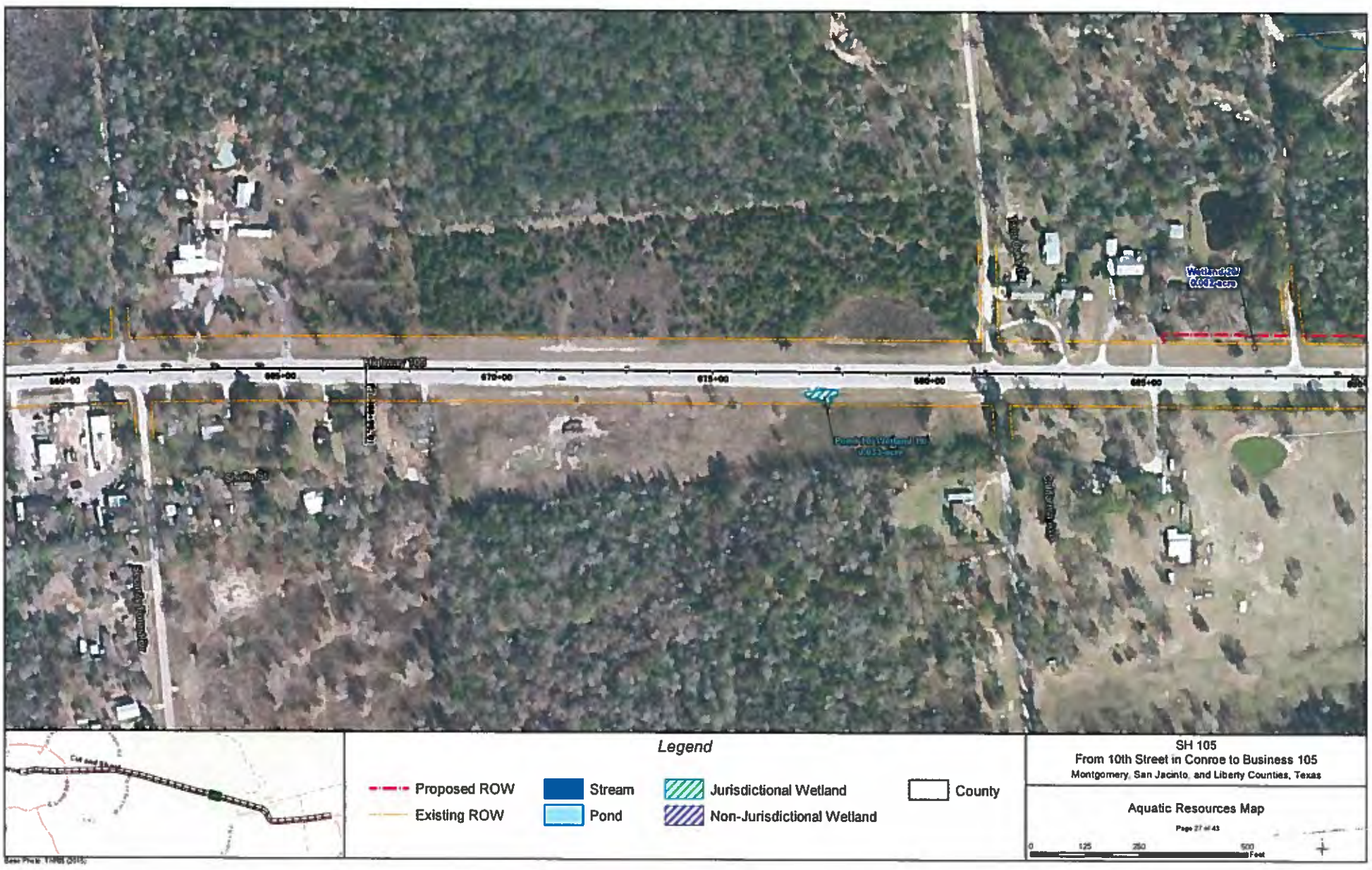

West Fork
Spring Branch
0.51 acre
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 22 of 43
0
125
250
500
Feet

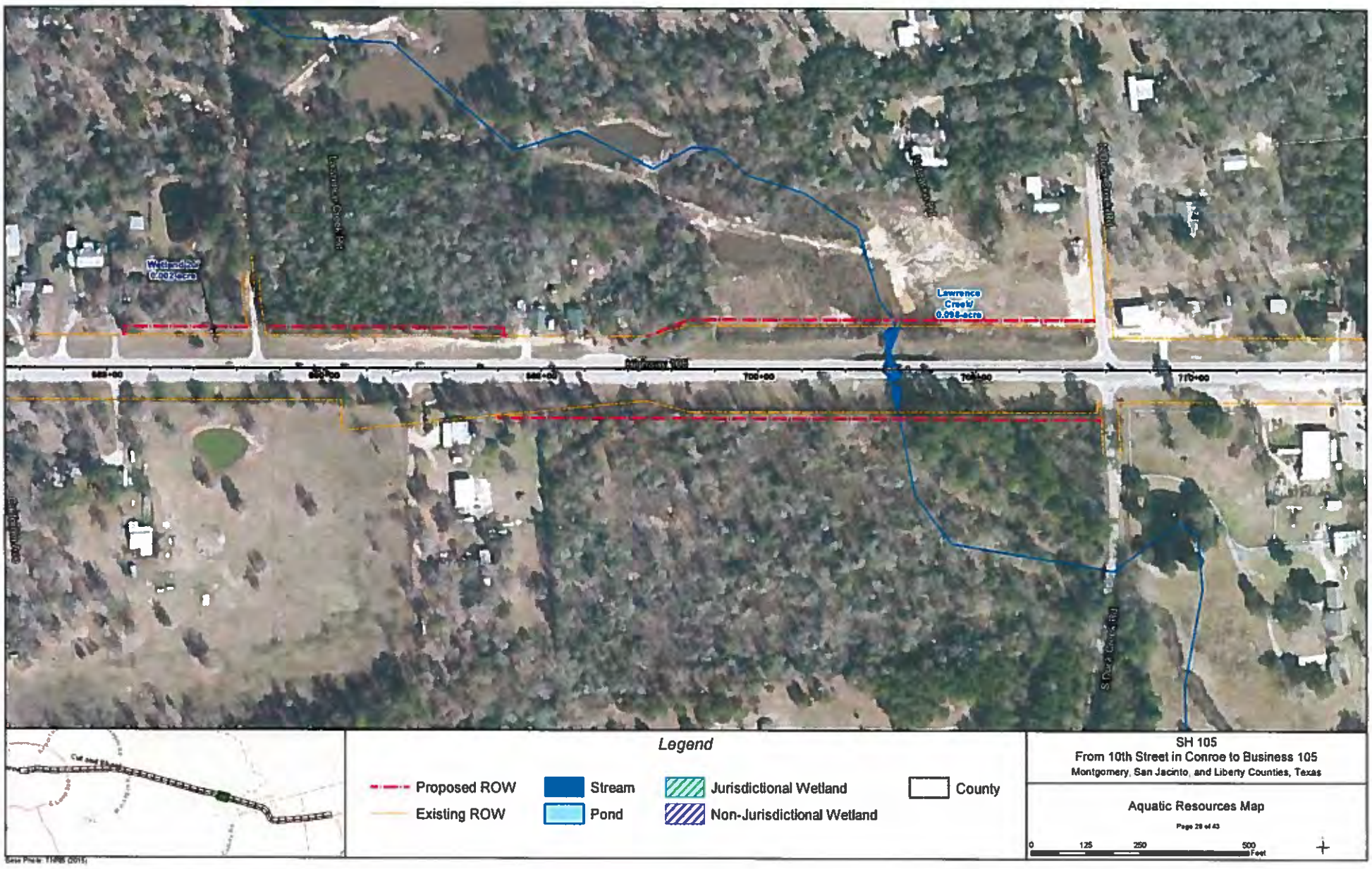

Wetland 3J
Highway 105
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

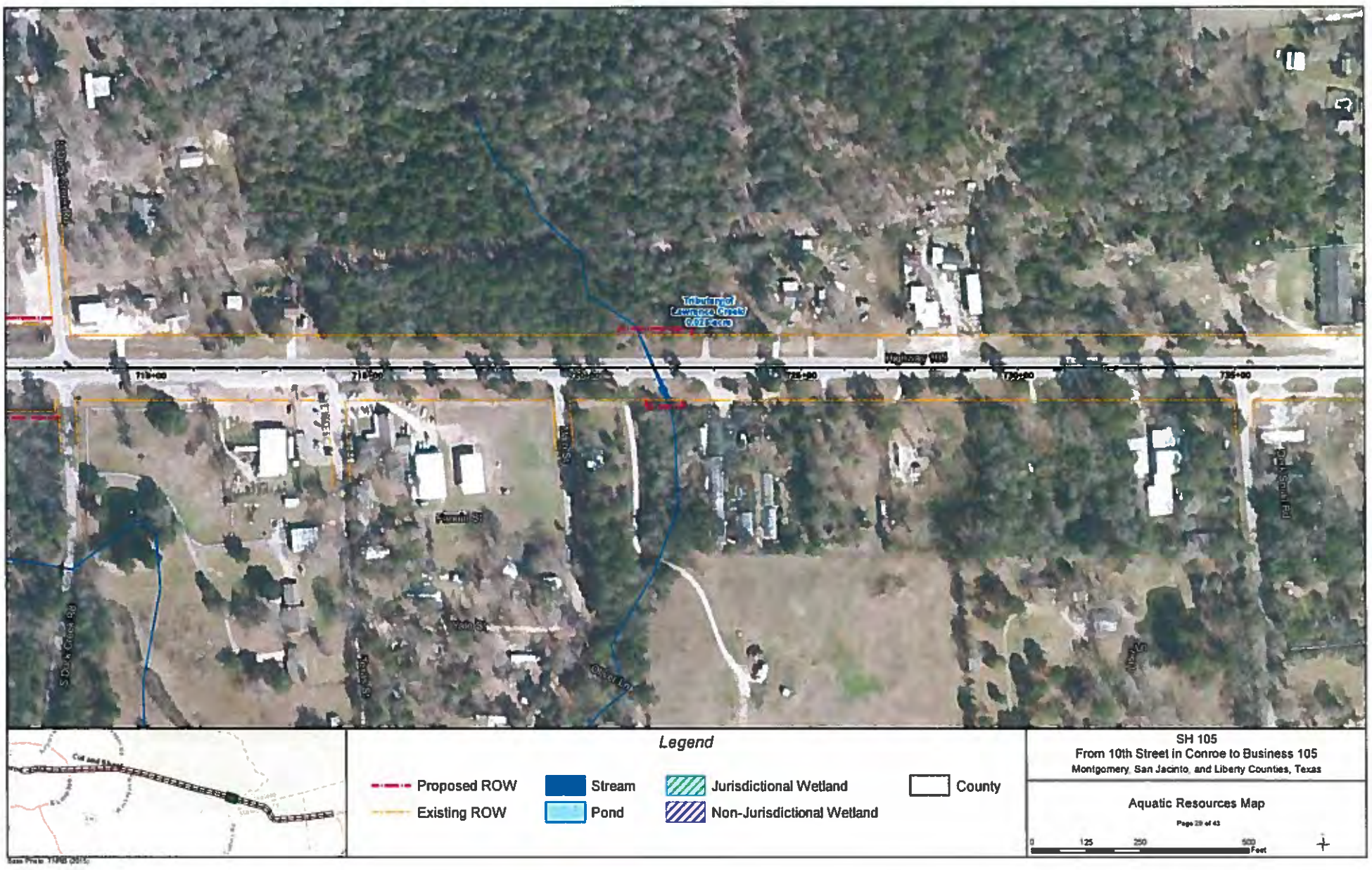

Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 24 of 43
0
125
250
500
Feet

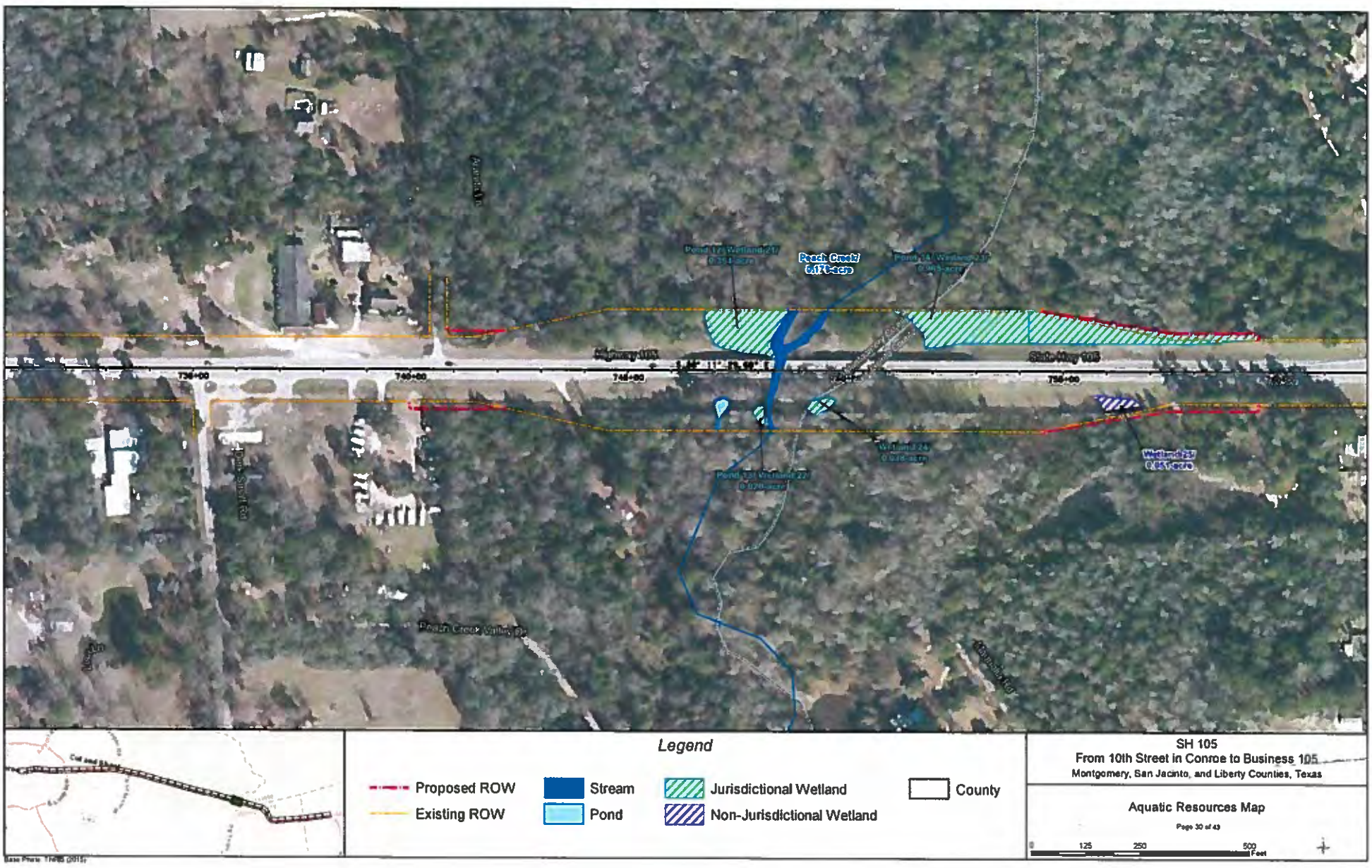

Spring Branch
0.021 acre
Highway 105
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 25 of 43
0
125
250
500
Feet


Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

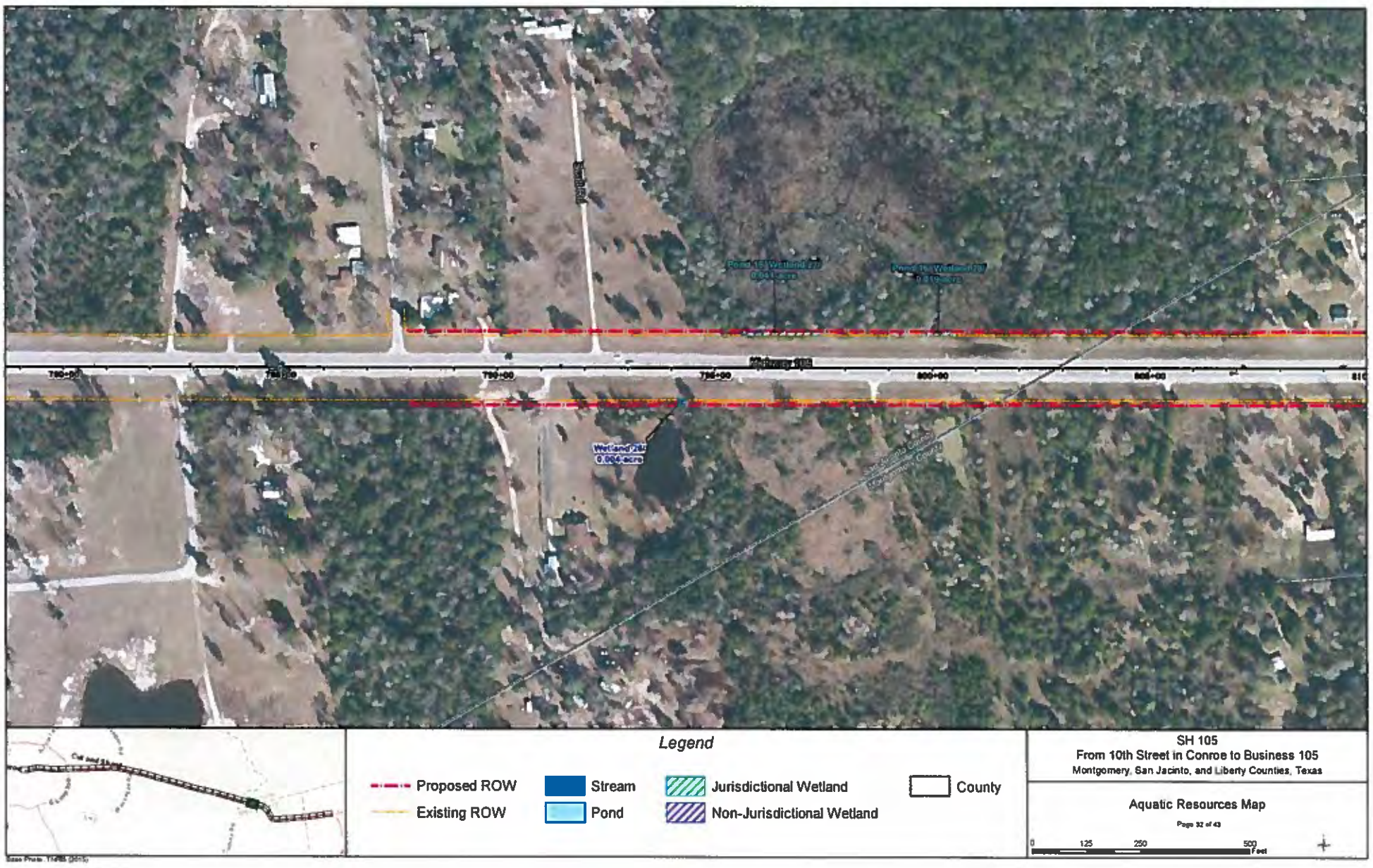

Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

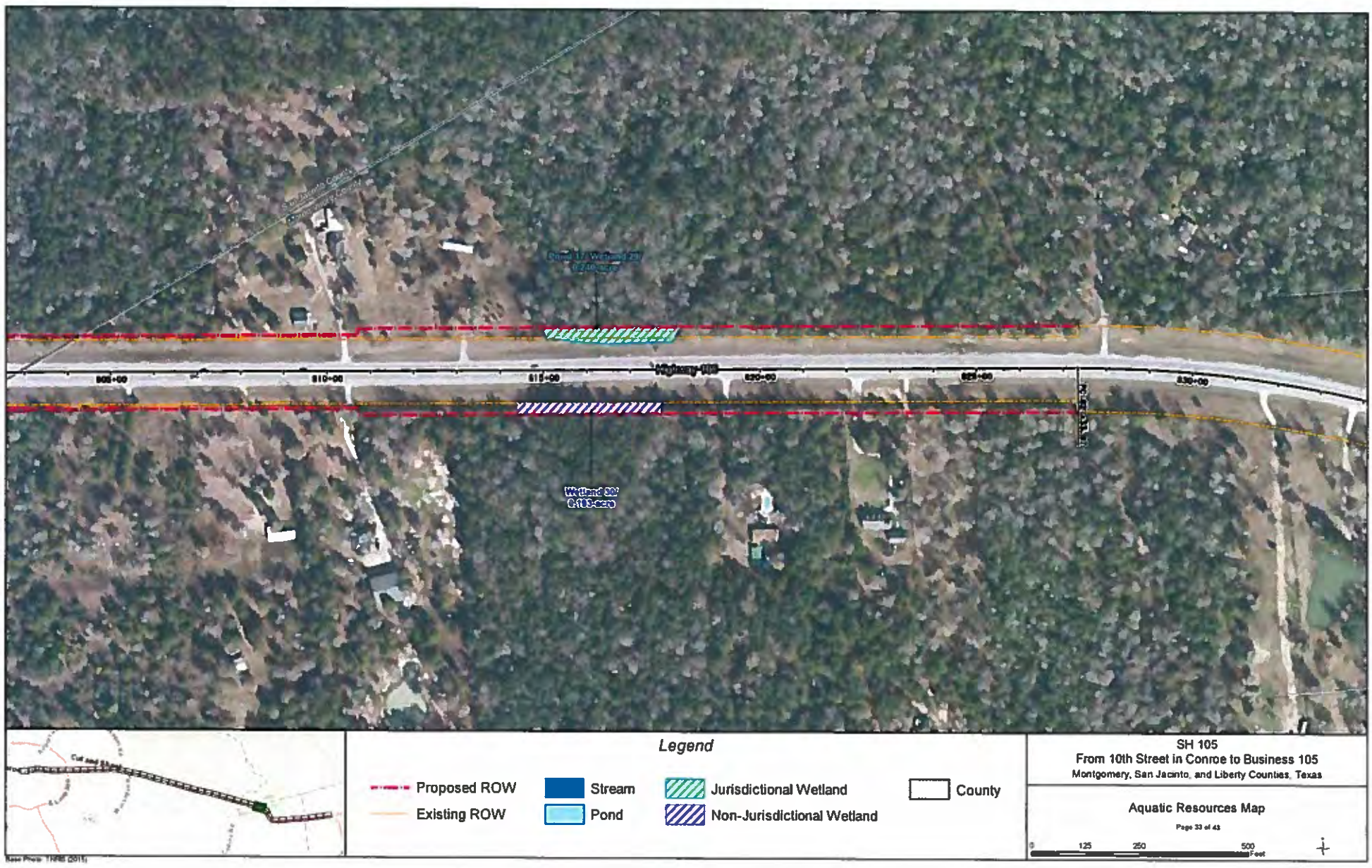

Wetland
0.002-acre
Lawrence Creek
0.098-acre
Highway 105
700+00
710+00
S Dugat Creek Rd
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Tributary of Lawrence Creek
Highway 105
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

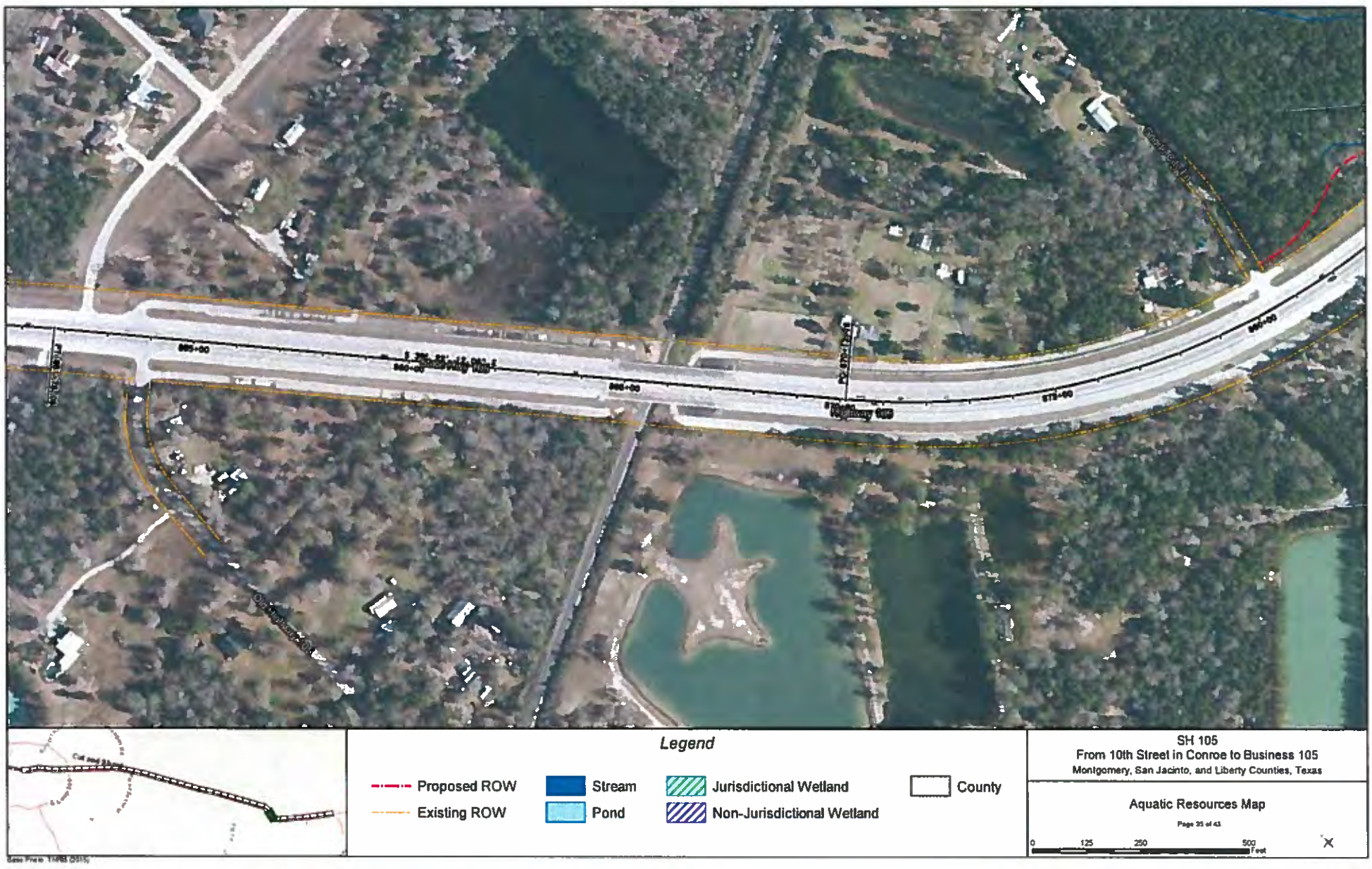

Peach Creek
6,178-acre
Pond 17, Wetland 27
0.34-acre
Pond 14, Wetland 27
0.065-acre
Highway 105
State Hwy 105
736+00
746+00
746+00
756+00
Wetland 24
0.028-acre
Pond 13, Wetland 27
0.026-acre
Wetland 25
0.057-acre
Peach Creek Valley Dr
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 30 of 43
0
125
250
500
Feet

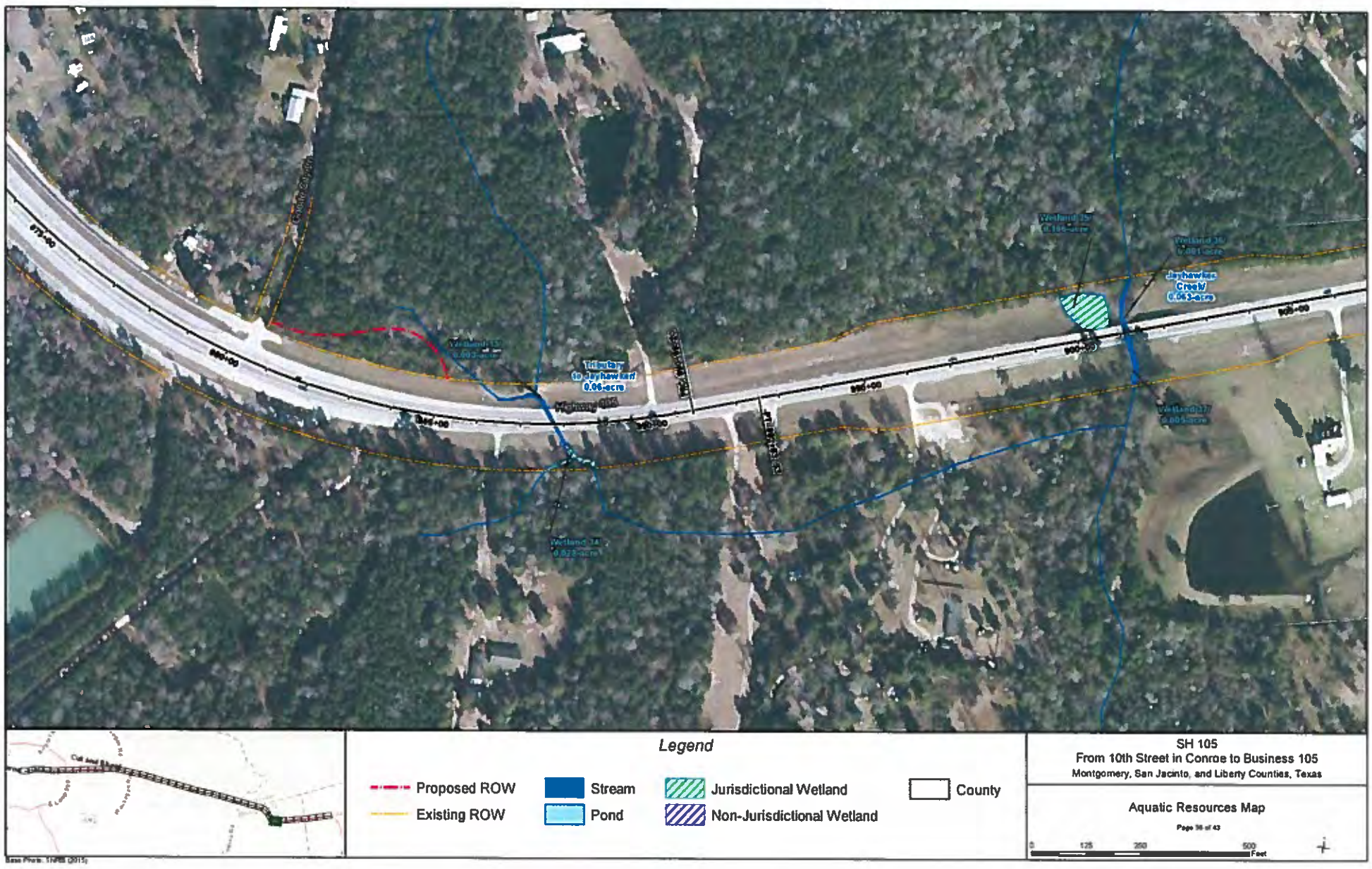
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet

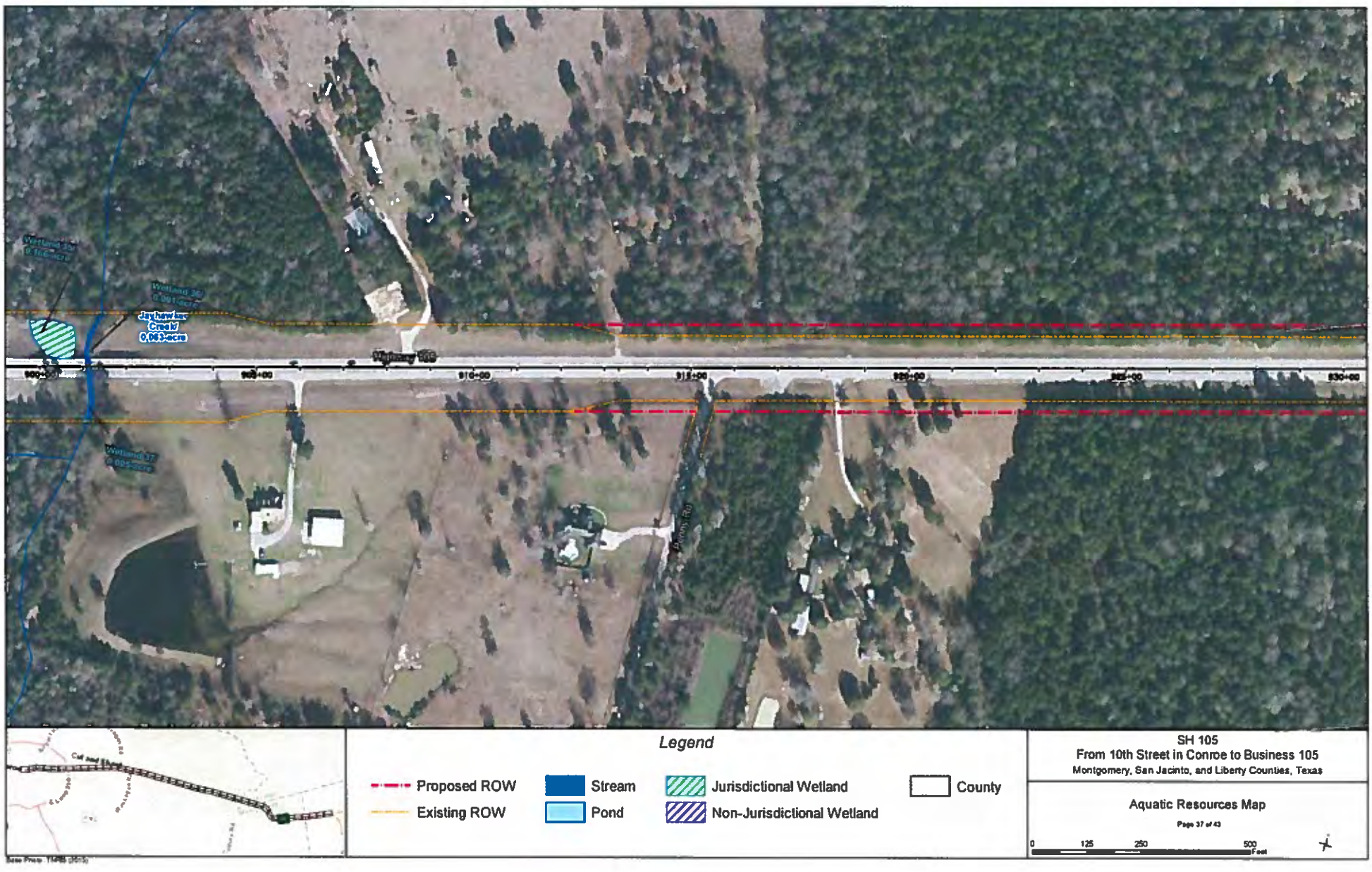

Pond 15 | Wetland 27
0.04-acre
Pond 16 | Wetland 28
0.019-acre
Wetland 26
0.004-acre
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Pond 17 / Wetland 29
0.240-acre
Wetland 30
0.103-acre
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Page 33 of 43
0
125
250
500
Feet

Shell Branch
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
125
250
500
Feet


Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
Jayhawker Creek
0.063-acre
Tributary to Jayhawker
0.06-acre
Highway 105
0
125
250
500
Feet


Wetland 36
0.091acre
Wetland 35
0.091acre
Jaybird Creek
0.003acre
Highway 105
900+00
905+00
910+00
915+00
920+00
925+00
930+00
Wetland 37
0.004acre
Parks Rd
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
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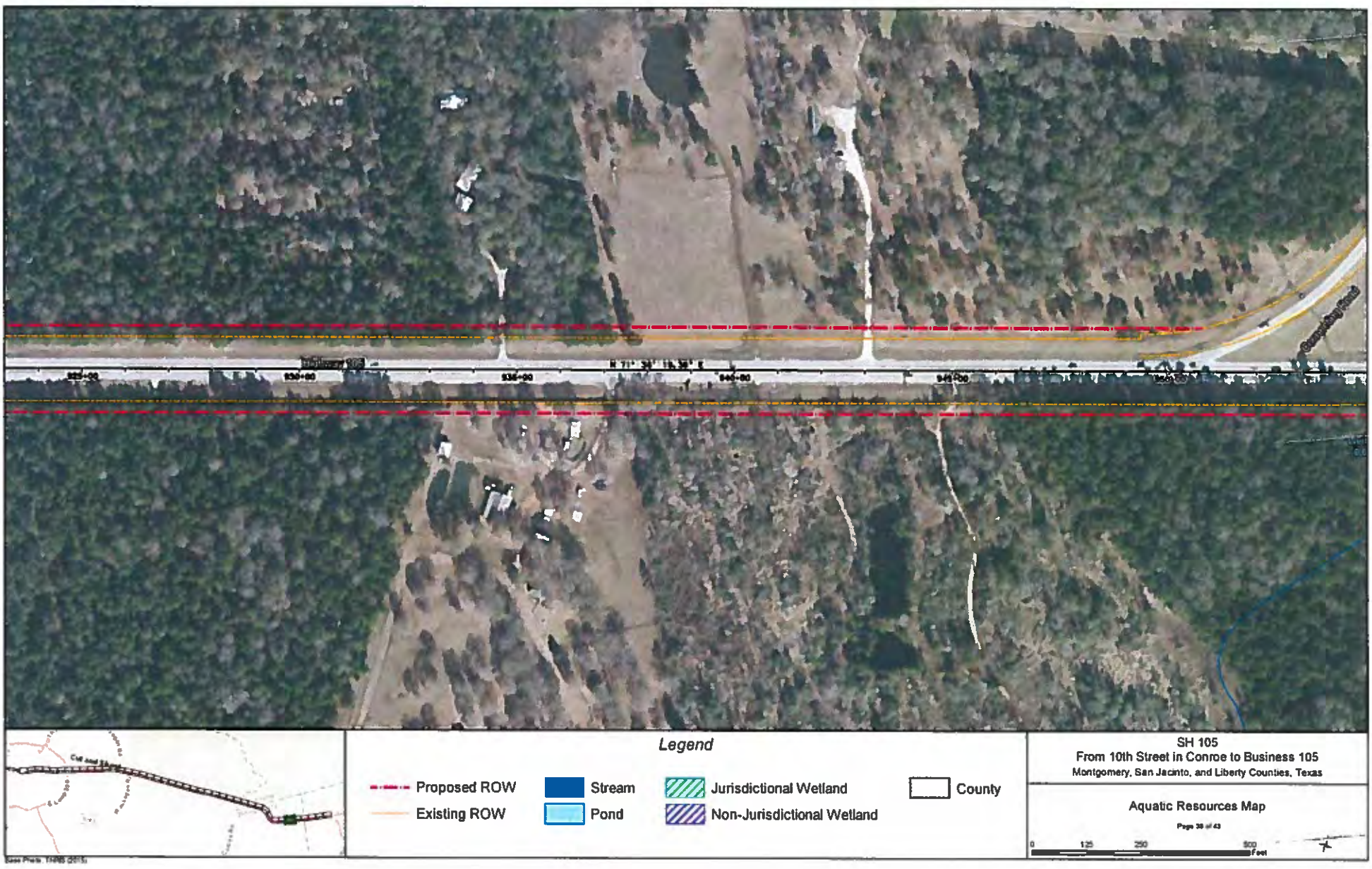
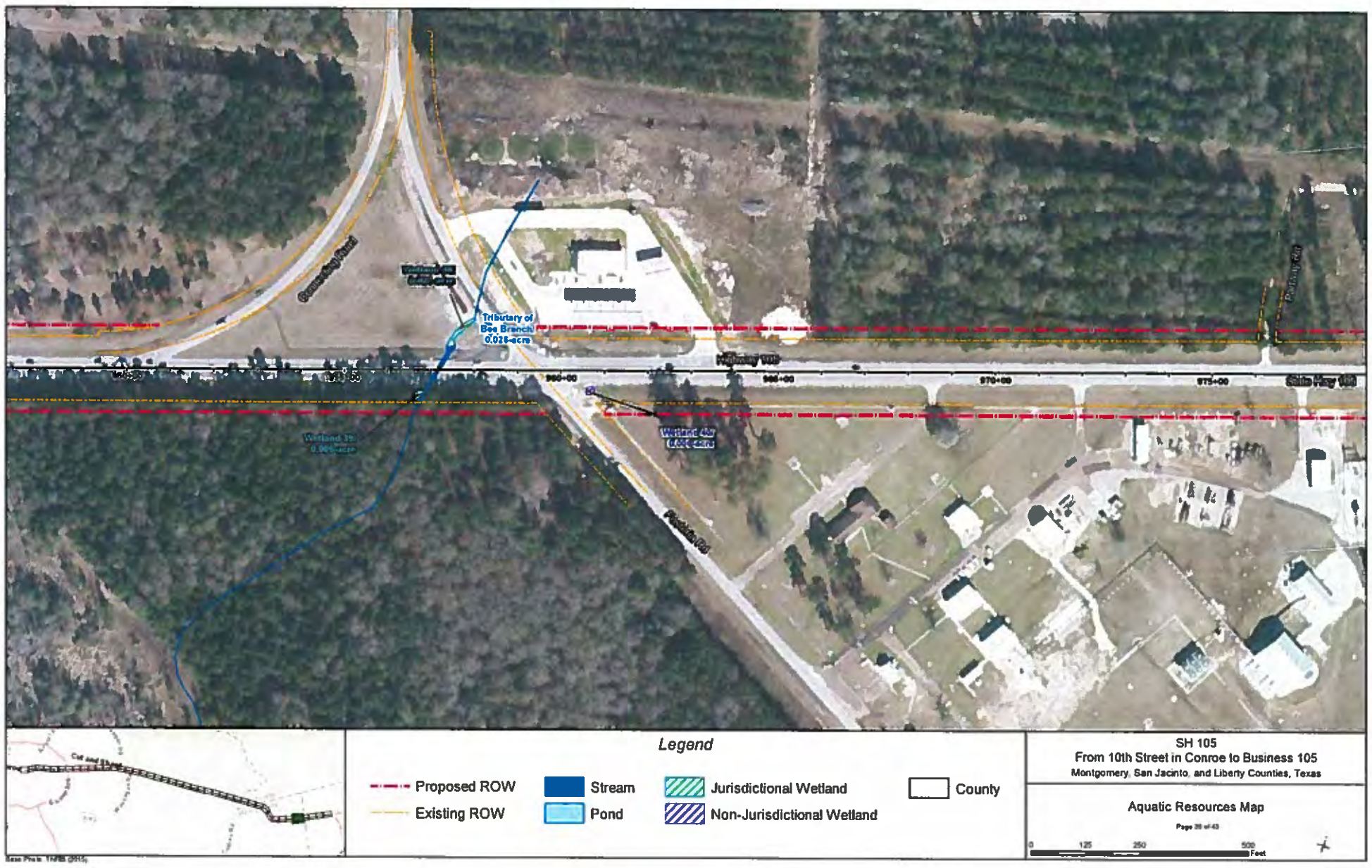
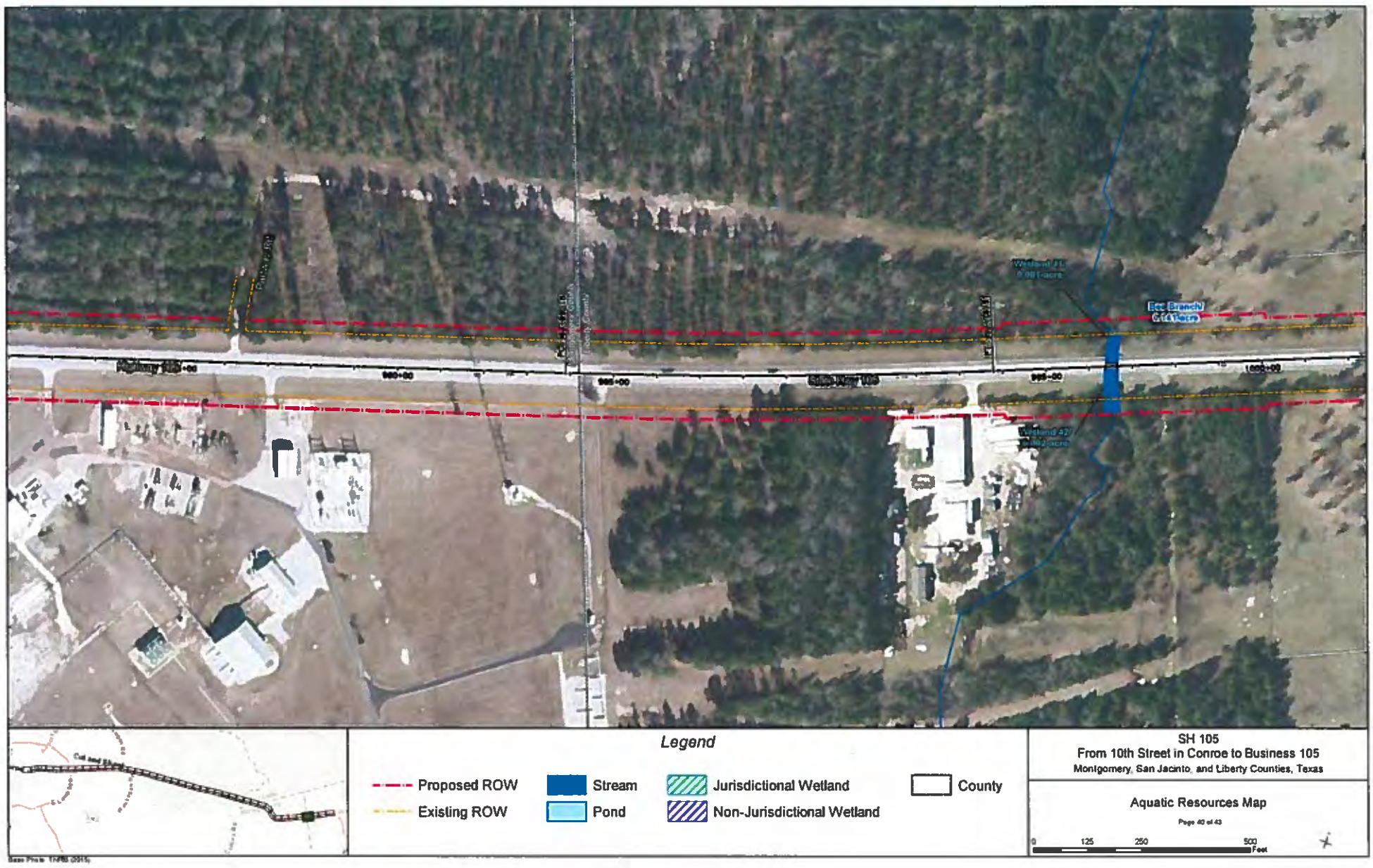
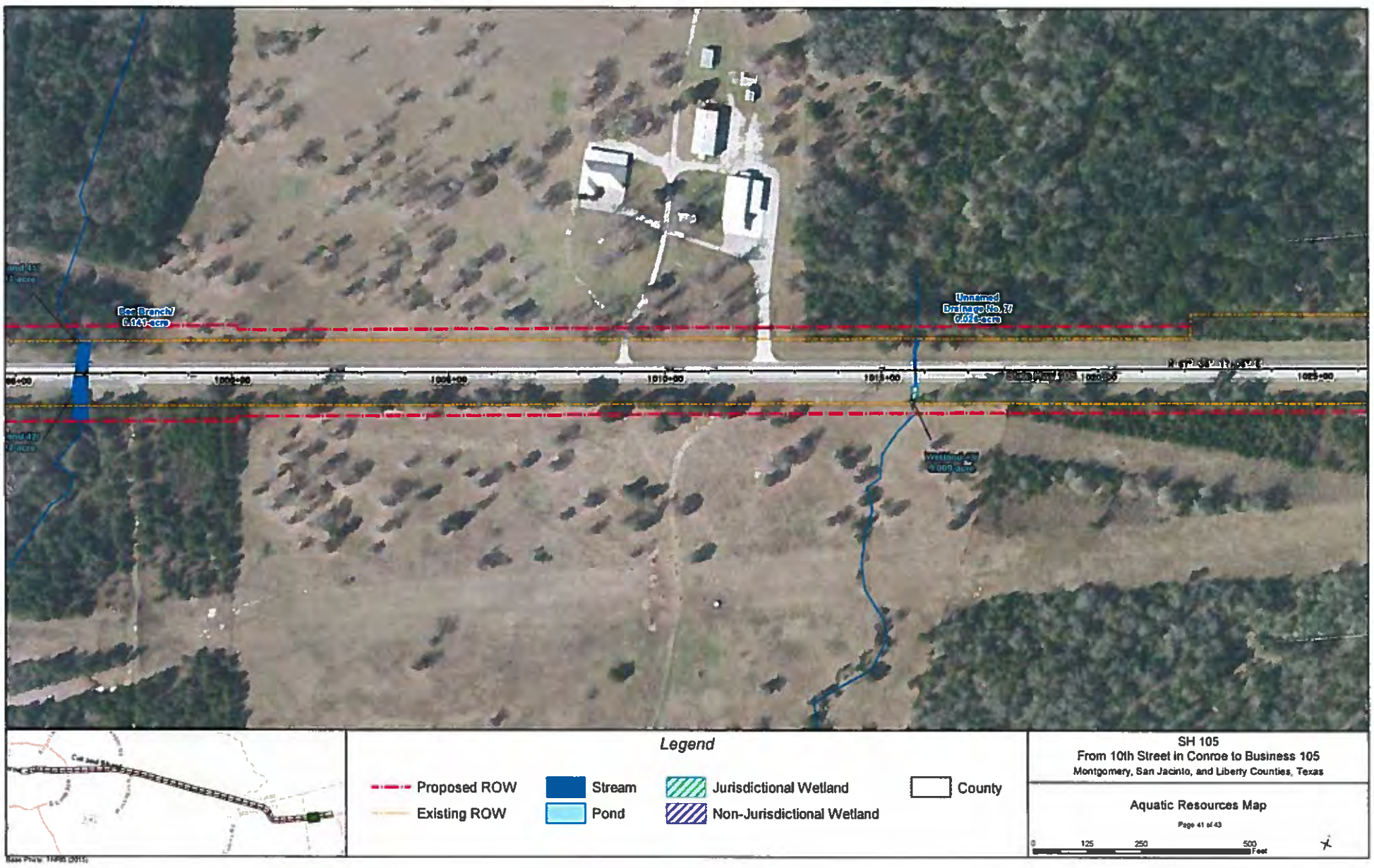
0
125
250
500
Feet


Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Tributary of
Bee Branch
0.028-acre
Wetland 4Ay
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Bee Branch
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
0
125
250
500
Feet


Fox Branch
0.143 acre
Unnamed
Drainage No. 17
0.028 acre
Legend
Proposed ROW
Existing ROW
Stream
Pond
Jurisdictional Wetland
Non-Jurisdictional Wetland
County
SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas
Aquatic Resources Map
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0
125
250
500
Feet

Legend

- Proposed ROW
- Existing ROW
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland
- County

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Aquatic Resources Map

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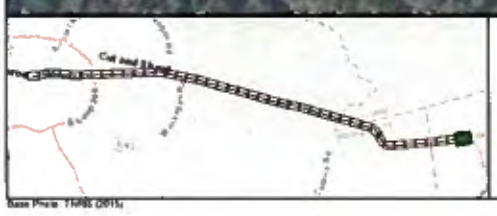
0 125 250 500 Feet



Legend

- Proposed ROW
- Existing ROW
- Stream
- Pond
- Jurisdictional Wetland
- Non-Jurisdictional Wetland
- County

SH 105
From 10th Street in Conroe to Business 105
Montgomery, San Jacinto, and Liberty Counties, Texas

Aquatic Resources Map

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0 125 250 500 Feet