



# Finding of No Significant Impact for a FHWA Project

**Proposed Action:** FM 521 Roadway Improvements  
**Project Limits:** Beltway 8 to FM 2234 (McHard Road)  
**City:** Pearland      **County:** Fort Bend/Harris      **State:** Texas  
**TxDOT CSJ(s):** 0111-01-067, 0111-03-031, and 2105-01-048

In accordance with 23 CFR Section 771.119 and Section 771.121, the Texas Department of Transportation (TxDOT) has determined that FM 521 Roadway Improvements, Beltway 8 to FM 2234 (McHard Road) will not have a significant impact on the human or natural environment.

This Finding of No Significant Impact (FONSI) for the Preferred Alternative is based on the final Environmental Assessment dated March 2017 and the entire project record. This decision documents the selection of the Build Alternative, presented in the final EA as the Preferred Alternative, which is described as follows:

The Build Alternative widens FM 521 to a "typical" four-lane divided curb and gutter section with a 16-foot raised median from Riley Road to FM 2234 and ties to the existing seven-lane section north of Riley Road, a distance of roughly 0.9 miles. Build Alternative improvements to the intersection at FM 521 and FM 2234 provide for a "jug-handle" option that creates two offset "T" intersections (one along FM 521 and one along FM 2234). This alternative eliminates both at-grade railroad crossings with railroad overpasses on FM 521 and FM 2234 and eliminates the four legged intersection at FM 521 and FM 2234. The distance of the improvements on FM 2234, including the grade separation, extend approximately 0.8 miles. Access roads on FM 521 will maintain current access. Proposed improvements would also include a mix of 15 foot outside lanes, 6 foot shoulders, and 5-6 foot sidewalks to accommodate bicyclists and pedestrians.

A Notice of Availability of the draft EA was issued on July 25, 2016.

A public hearing for this project was held on August 25, 2016.

No changes to the draft EA were made as a result of comments received on the draft EA during the posted comment period or from comments made at the public hearing.

Public Hearing Documentation has been prepared and is available for review on request.

The final EA; Checklist for Section 4(f) *De Minimis* for Public Parks, Recreation Lands, Wildlife & Waterfowl Refuges, and Historic Properties; Checklist for TxDOT Compliance with Chapter 26 of the Texas Parks and Wildlife Code; and reports contained in the file of record have been independently evaluated by TxDOT and determined to adequately and accurately discuss the need, purpose, alternatives, environmental issues, impacts of the proposed project, and appropriate mitigation measures. These documents provide sufficient evidence and analysis for determining that preparation of an Environmental Impact Statement is not required. These documents are incorporated by reference into this decisional document.

Based upon TxDOT's review and consideration of the analysis and evaluation contained in the EA for this project, and after careful consideration of all social, economic, and environmental factors, including input from the public involvement process, TxDOT hereby issues this Finding of No Significant Impact for the FM 521 Improvements, Beltway 8 to FM 2234 (McHard Road).



**Finding of No Significant Impact for a FHWA Project**

TxDOT will ensure adherence and completion of all project commitments described in the final EA dated March, 2017, Section 6.3. TxDOT will ensure that any and all local, state, or federal permit requirements and conditions are met and otherwise complied with.

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 the Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.

*Carlos Silva*

TxDOT Environmental Affairs Division Director

3/22/17

Date



# Environmental Document Certification Form

[Reset Form](#)

**Project Name:** FM 521 Roadway Improvements

**Control Section Job Number (CSJ):** 0111-01-067, 0111-03-0311 and 2105-01-048

**Document Type:**  EA  EIS  FONSI

**Document Stage:**  Draft  Final

*This checklist shall be used to certify that an environmental document is ready for public review (draft documents) or approval (final documents).*

*When all required items are satisfactorily completed, the District and ENV representatives will sign this form indicating the environmental document is certified and may proceed to public review or is ready for final approval.*

**This project meets all the following requirements:**

- A. A project scope has been completed for the project.
- B. The document has been determined to be administratively complete.
- C. The document meets the requirements of technical review (43 TAC §2.49) as required to date.
- D. The required public participation has been completed as required to date.
- E. All consultation and coordination required for the environmental decision is complete and appropriately documented (for final environmental documents).
- F. Legal Review or Legal Sufficiency Review has been completed, as required.
- G. Current funding has been reviewed, and is as follows:

Mix of Federal/State/Local funding  State-only funding Date Verified: 3/3/2017

**Comments:**

**Signed:** Andrew Leske

Digitally signed by Andrew Leske  
DN: cn=Andrew Leske, o=TxDOT, ou=Houston District, email=Andrew.Leske@hdist.txdot.gov, c=US  
Date: 2017.03.07 09:28:21 -0600

*District Core Team Member*

**Date:** 3/7/2017

Print Name: Andrew Leske

**Signed:** Patrick Lee

Digitally signed by Patrick Lee  
DN: cn=Patrick Lee, o=TxDOT, ou=ENV, email=Patrick.Lee@txdot.gov, c=US  
Date: 2017.03.09 13:41:28 -0600

*ENV Core Team Member*

**Date:** 3/9/2017

Print Name: Patrick Lee



# Checklist for Section 4(f) *De Minimis* for Public Parks, Recreation Lands, Wildlife & Waterfowl Refuges, and Historic Properties

**Main CSJ:** 0111-01-067  
**District(s):** Houston  
**County(ies):** Harris  
**Property ID:** Almeda Nature Preserve 3307  
**Property Name:** Almeda Nature Preserve

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.

The following checklist was developed as a tool to assist in streamlining the Section 4(f) *De Minimis* process and to ensure that all necessary information is documented in the File of Record (ECOS).

## What Type of Property is Being Evaluated?

- A park, recreation land, or wildlife/waterfowl refuge
- A historic property

## Section 4(f) Defining Criteria for Parks, Recreation, and Refuge Properties

1.   Yes   Is the property publicly owned?
2.   Yes   Is the property open to the public (except in certain cases for refuges)?
3.   Yes   Is the property's major purpose for park, recreation, or refuge activities?
4.   Yes   Is the property significant?

## Defining the Property's Significance

**Note:** Significance is presumed in the absence of a determination with the official with jurisdiction.

1.   Yes   Does the property play an important role in meeting the park, recreation, or refuge objectives for the official with jurisdiction?
2.   Yes   Is the property's major purpose for park, recreation, or refuge activities?

## Establishing Section 4(f) Use of the Property

1.   Yes   Does the project require a use (i.e., new right of way, new easement(s), etc.)?

## Establishing Section 4(f) *De Minimis* Eligibility



**Checklist for Section 4(f) De Minimis for Public Parks, Recreation Lands, Wildlife & Waterfowl Refuges, and Historic Properties**

1.     Yes     Was it determined that the project will not adversely affect the activities features, or attributes that make the property eligible for Section 4(f) protection?
  
2.     Yes     Was a public notice and an opportunity for public review and comment provided?  
*(This requirement can be satisfied in conjunction with other public involvement procedures, such as those for NEPA process)*
  
3.     Yes     Did the Official with Jurisdiction concur that the property was significant and that the proposed project meets ALL conditions of items above?

**Documentation**

The following **MUST** be attached to this checklist to ensure proper documentation of the Section 4(f) *De Minimis*:

1. Brief project description
2. Explanation of how the property will be used.
3. A detailed map of the Section 4(f) property including:
  - a. Current and proposed ROW
  - b. Property boundaries
  - c. Existing and planned facilities
4. Concurrence letter with the Official with Jurisdiction

**TxDOT Approval Signatures**

**District Reviewer Certification**

I reviewed this checklist and all attached documentation and confirm that the above property and proposed project meet the requirements of 23 CFR 774 for a Section 4(f) *De Minimis* finding.

Andrew Leske

Digitally signed by Andrew Leske  
DN: cn=Andrew Leske, o=TxDOT, ou=Houston District,  
email=Andrew.Leske@txdot.gov, c=US  
Date: 2015.12.22.12.41.51 -06'00'

December 22, 2015

District Personnel Name

Date

**ENV Technical Expert Reviewer Certification**

I reviewed this checklist and all attached documentation and confirm that the above property and proposed project meet the requirements of 23 CFR 774 for a Section 4(f) *De Minimis* finding.

Troy Olney

Digitally signed by Troy Olney  
DN: cn=Troy Olney, o=TxDOT, ou=Environmental Affairs,  
email=tolney\_c@txdot.gov, c=US  
Date: 2016.01.14.10.38.40 -06'00'

January 14, 2016

ENV Personnel Name

Date

**TxDOT-ENV Section 4(f) De Minimis Final Approval**

Based upon the above considerations, this Section 4(f) *De Minimis* satisfies the requirements of 23 CFR 774.

Bruce Jensen

Digitally signed by Bruce Jensen  
DN: cn=Bruce Jensen, o=Texas Department of Transportation, ou=CRM  
Section Director, Environmental Affairs, email=bruce.jensen@txdot.gov, c=US  
Date: 2016.03.08.15.09.55 -06'00'

March 8, 2016

TxDOT-ENV, PD Director or designee

Date

## **FM 521 4(f) De Minimis Determination Checklist Documentation**

### 1. Brief Project Description with explanation of how the property will be used;

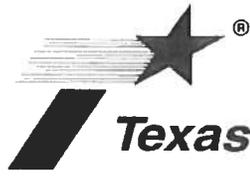
The proposed project consists of reconstructing and widening the existing two-lane rural undivided facility to a four-lane divided urban arterial from Beltway 8 to 0.3 miles south of FM 2234. The project also includes improvements on FM 2234 from 0.3 miles west of FM 521 to 0.2 miles east of FM 521 and proposed grade separations at the Union Pacific Railroad crossings on FM 2234 and FM 521. Approximately 13.2 acres of additional right-of-way (ROW) would be required for the proposed project.

The proposed project would require acquisition of public land designated and used as a nature preserve/park and afforded protection under Chapter 26 of the Texas Parks and Wildlife Code and Section 4(f) of the Department of Transportation Act. A total of 1.67 acres out of 45.75 acres of Almeda Road Nature Preserve (3.65%), owned by Harris County, is within the proposed right-of-way of the project. Proposed work within the nature preserve/park boundary would include roadway improvements to the intersection at FM 521 and FM 2234 to provide for two offset "T" intersections. These "T" intersections would allow for railroad overpasses on FM 521 and FM 2234 to reduce vehicular delays.

TxDOT would acquire the ROW from the far western edge of the Almeda Nature Preserve parcels. Public access to the nature preserve is located at the far northwestern corner of the property via a fenced and gated entrance off of Almeda School Road. The nature preserve property includes a small gravel parking area and some portable restrooms. No other facilities are present on the nature preserve property. TxDOT met with Harris County Parks Department Precinct 1 Parks Superintendent (the Official with Jurisdiction) and other Harris County Staff on November 18, 2014 to discuss the proposed project and the unavoidable need for ROW from the Almeda Road Nature Preserve. Upon review of the proposed project, Harris County agreed that TxDOT could not avoid the ROW acquisition and given the location of the needed ROW on the far western edge of the nature preserve property, that TxDOT minimized the amount of needed ROW from the nature preserve property, and that the proposed project would not adversely affect the activities, features, or attributes that make the property eligible for Section 4(f) protection. TxDOT will continue to coordinate with Harris County regarding the need for ROW from this nature preserve/park property.

A public hearing was held on Thursday May 7, 2015 at Willowridge High School. The public hearing summary report can be found in the official file of record.

2. Detailed Map of the section 4(f) property;
  - a. Included in attachments
  
3. Concurrence letter with the official with Jurisdiction
  - a. Included in attachments



# Texas Department of Transportation

PO BOX 1386 | HOUSTON, TEXAS 77251-1386 | (713) 802 5000 | WWW.TXDOT.GOV

CERTIFIED MAIL 7013 2250 0001 8100 7331

March 9, 2015

Chambers Washington  
Superintendent of Parks  
Harris County, Precinct 1  
7901 El Rio Street  
Houston, Texas 77054

RE: Notification of Intent of Pursue De Minimis to Section 4(f) (23 CRF 774.3(b))  
Section 4(f) Property: Almeda Road Nature Preserve  
Harris and Fort Bend Counties  
FM 521: At FM 2234  
Control 0111-01-067 and 0111-03-031

Dear Mr. Washington:

In accordance with 23 CRF 774.3(b), we are seeking concurrence for the above referenced project, which will be carried out with Federal funds. This letter requests review and consultation concerning the determinations of significance and findings of no adverse effects within the project's area of potential effects (APE). TxDOT also intends to pursue a Section 4(f) *de minimis*.

## Introduction

The Texas Department of Transportation (TxDOT) proposes to reconstruct and widen the existing two-lane rural undivided FM 521 facility to a four-lane divided urban arterial from Beltway 8 to 0.3 miles south of FM 2234. The project also includes improvements on FM 2234 from 0.3 miles west of FM 521 to 0.2 miles east of FM 521 and proposed grade separations at the Union Pacific Railroad crossings on FM 2234 and FM 521. The proposed project would require acquisition of public land designated and used as a nature preserve/park. A total of 1.67 acres out of 45.75 acres of Almeda Road Nature Preserve (3.65%) is within the proposed right-of-way (ROW) of the project. Proposed work within the nature preserve/park boundary would include roadway improvements to the intersection at FM 521 and FM 2234 to provide for two offset "T" intersections. These "T" intersections would allow for railroad overpasses on FM 521 and FM 2234 to reduce vehicular delays.

Impacts to the parkland were unavoidable due to the geometric constraints imposed by the required railroad crossing. In particular, the limitations of feasible bridge beam span length over the railroad ROW combined with the requirement that permanent bridge foundations and footings not be constructed within the existing railroad ROW. An additional constraint was the minimum allowable radius for the required design speed for the proposed FM 521 facility. Given these constraints, the "tightest" feasible reverse curve configuration to achieve the railroad grade separation was laid out to successfully minimize the ROW impact to the parkland.

## OUR GOALS

MAINTAIN A SAFE SYSTEM ▪ ADDRESS CONGESTION ▪ CONNECT TEXAS COMMUNITIES ▪ BEST IN CLASS STATE AGENCY

*An Equal Opportunity Employer*

**Determination of No Adverse Effects and Certification of Section 4(f) De Minimis**

Survey determined that the Alameda Road Nature Preserve on which the *use* will take place has significance under the requirements of 23 CRF 774.3(b). In order to qualify for a Section 4(f) *de minimis*, it was established that the project activities will not adversely affect the activities, features, or attributes that make the property eligible for Section 4(f) protection.

The function of Alameda Nature Preserve will not be impaired and its function will not cease. Nor will the project impair the function of the property as a whole. Therefore, these minor changes would have no adverse effect. The property would still possess its significance after the project is complete.

If you feel that TxDOT has met the above requirements and have no additional comments about the project, then please endorse this letter and return it to us by April 20, 2015. This endorsement will signify your concurrence that there is no adverse effect to the above property. Additional information about Section 4(f) requirements can be found at the following or you may request additional information from TxDOT:

[http://environment.fhwa.dot.gov/\(S1vyep545s3wmhuubnvexkmm2\)/4f/index.asp](http://environment.fhwa.dot.gov/(S1vyep545s3wmhuubnvexkmm2)/4f/index.asp)

**Conclusion**

In accordance with 23 CRF 774.3(b), I hereby request your signed concurrence with the finding of no adverse effects. Furthermore, TxDOT determined that the proposed project activities meet the requirements of a *de minimis* finding under Section 4(f).

Thank you for your assistance with the federal review process.

If you need further information, please call Pat Henry, P.E., at (713) 802-5241.

Sincerely,



Pat Henry, P.E.  
Director of Project Development  
Houston District

Attachment

<b>CONCUR: NO ADVERSE EFFECT</b> <b>DETERMINATION OF DE MINIMIS IMPACT UNDER SECTION 4(f) GUIDELINES</b>	
NAME: <u></u>	DATE: <u>03-13-15</u>
Harris County Precinct 1 Superintendent of Parks Mr. Chambers Washington	



## Andrew Leske

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**From:** Troy Olney-C  
**Sent:** Wednesday, May 27, 2015 10:28 AM  
**To:** Chambers.Washington@cp1.hctx.net  
**Cc:** Andrew Leske; Pat Henry  
**Subject:** TxDOT FM 521 4(f) De Minimus  
**Attachments:** FM\_521\_4(f)\_Notification Letter.pdf

Good Morning Mr. Washington,

I am writing to inform you of an omission on the attached "Notification of Intent to Pursue De Minimis to Section 4(f) (22 CFR 774.3(b))" letter for the FM 521 Project. The letter failed to notify you of the recent assignment of some NEPA responsibilities to the Texas Department of Transportation (TxDOT) by the Federal Highway Administration (FHWA), as required by the Memorandum of Understanding between TxDOT and FHWA. The letter should have included the following statement:

***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.***

Please feel free to contact me with any questions on this matter.

Thank you,

**Troy Olney**  
Environmental Affairs Division  
Texas Department of Transportation  
512-416-2522  
[TOLNEY-C@txdot.gov](mailto:TOLNEY-C@txdot.gov)

**APPENDIX C:**  
**RTP and STIP Excerpts**

## CORRIDOR-BASED MAJOR INVESTMENTS

MPOID	CSJ	County	Facility	From	To	Description	Length (mi)	Main Lanes	Frontage Lanes	Fiscal Year	Analysis Year	Total Project
												Cost (M, YOE)
<b>SH 146</b>												
137	0389-05-087	Harris	SH 146	FAIRMONT PARKWAY	RED BLUFF RD	WIDEN TO 6-LANES WITH TWO 2-LANE FRONTAGE ROADS	4.6	(4,6)	(0,4)	2018	2025	\$ 51.50
139	0389-05-088	Harris	SH 146	RED BLUFF RD	NASA I	WIDEN TO 8-LANES, GS AT MAJOR INTERSECTIONS AND 2 2-LANE FRONTAGE ROADS	1.8	(4,8)	(0,4)	2018	2025	\$ 76.70
14632	0389-05-116	Harris	SH 146	NASA RD I	GALVESTON/HARRIS CL	WIDEN TO 6-LANE ARTERIAL WITH 4-LANE EXPRESS LANES	1.0	(4,10)	n/a	2018	2025	\$ 98.80
468	0389-06-088	Galveston	SH 146	FM 518	FM 1764	WIDEN TO 6-LANES WITH TWO NONCONTINUOUS 2-LANE FRONTAGE ROADS IN SECTIONS	10.4	(4,6)	(0,4)	2021	2025	\$ 210.00
13842	0389-06-095	Galveston	SH 146	HARRIS/GALVESTON C/L	FM 518	WIDEN TO 6-LANES ARTERIAL WITH 4-LANE EXPRESS LANES	1.7	(4,10)	n/a	2019	2025	\$ 139.00
467	0389-07-025	Galveston	SH 146	FM 519	LP 197	CONSTRUCT RR OVERPASS	0.7	(2,4)	n/a	2030	2035	\$ 55.23
536	0389-13-039	Harris	SH 146	AT BS 146E	FERRY RD	CONSTRUCT 4 MAINLANES AND GRADE SEPARATION	0.9	(0,4)	(6,6)	2020	2025	\$ 47.09
7521		Harris	SH 146	SH 146 SB	SOUTHERN ACCESS RD	CONSTRUCT DIRECT CONNECTOR FROM SB LANES OF SH 146	0.5	n/a	n/a	2020	EREA (2025)	\$ 13.92
17055		Chambers	SH 146	SH 146 SB AT IH 10 AND	IH 10 WB FRG RD AT SH 146 NB	CONSTRUCT MEDIAN IMPROVEMENTS AND EXTEND AND WIDEN TURN LANES	0.3	(4,4)	n/a	2018	EREA (2025)	\$ .37
<b>SH 249</b>												
914	0720-02-074	Montgomery	SH 249	FM 1774/FM 149 IN PINEHURST	SPRING CREEK/HARRIS C/L	CONSTRUCT 6-LANE TOLLWAY WITH GRADE SEPARATIONS AT STAGECOACH RD AND WOODLANDS PARKWAY	3.6	(0,6)	(4,4)	2016	2025	\$ 129.93
339	0720-03-074	Harris	SH 249	MONTGOMERY C/L	BROWN RD	CONSTRUCT TWO 3-LANE FRONTAGE ROADS	1.1	(6,6)	(0,6)	2016	2025	\$ 35.17
913	0720-03-123	Harris	SH 249	MONTGOMERY C/L	BROWN RD	CONSTRUCT 6-LANE TOLLWAY WITH GRADE SEPARATIONS AT BROWN, BAKER AND ZION ROADS	1.2	(6,6)	(0,6)	2016	2025	\$ 165.00
11570	3635-01-001	Montgomery	SH 249	GRIMES COUNTY LINE	FM 1774/FM 149 IN PINEHURST	CONSTRUCT 4-LANE TOLLWAY IN SECTIONS	12.2	(0,4)	n/a	2016	2025	\$ 271.31
14524	3635-02-001	Grimes	SH 249	FM 1774 IN TODD MISSION	MONTGOMERY COUNTY LINE	**INFORMATION ONLY** PROJECT CONSISTENT WITH MONTGOMERY CO PROJECT IN PLAN (MPOID 11570) CONSTRUCT 4-LANE TOLLWAY (GRIMES CO)	2.4	(0,4)	n/a	2016	2025	\$ 473.40
<b>SH 288</b>												
14224	2105-01-048	Fort Bend	FM 2234	AT UPRR		CONSTRUCT GRADE SEPARATION (DOT# 447 9685)	0.6	(2,4)	n/a	2016	2025	\$ 20.10

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

7/8/2016

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## CORRIDOR-BASED MAJOR INVESTMENTS

MPOID	CSJ	County	Facility	From	To	Description	Length (mi)	Main Lanes	Frontage Lanes	Fiscal Year	Analysis Year	Total Project
												Cost (M, YOE)
<b>SH 288</b>												
17110		Fort Bend	FM 521	FM 2234	SH 6	RECONSTRUCT AND WIDEN TO 4-LANES WITH RAISED MEDIANS, INTERSECTION IMPROVEMENTS, SIGNAL IMPROVEMENTS AND PEDESTRIAN ACCESS	5.2	(2,4)	n/a	2024	2035	\$ 93.30
534	0111-01-067	Harris	FM 521	BW 8	FORT BEND C/L	WIDEN TO 4-LANE DIVIDED SECTION AND CONSTRUCT GRADE SEPARATION AT UPRR (DOT# 447 969Y)	0.6	(2,4)	n/a	2016	2025	\$ 29.60
495	0111-03-031	Fort Bend	FM 521	HARRIS C/L	S OF FM 2234	WIDEN TO 4-LANE DIVIDED	0.3	(2,4)	n/a	2016	2025	\$ 4.10
10568	0598-01-090	Harris	SH 288	S OF US 59	IH 610	CONSTRUCT 4 TOLL LANES AND RECONSTRUCT DIRECT CONNECTORS AT IH 610	4.5	(0,4)	n/a	2016	2025	\$ 510.80
13856	0598-01-092	Harris	SH 288	IH 610	BRAZORIA C/L	CONSTRUCT 4 TOLL LANES	6.6	(0,4)	n/a	2016	2025	\$ 243.70
16026	0598-01-095	Harris	SH 288	AT HOLCOMBE BLVD		CONSTRUCT NB-WB AND EB-SB CONNECTORS TO SH 288 TOLL LANES	1.2	n/a	n/a	2016	2025	\$ 14.40
16033	0598-01-096	Harris	SH 288	AT BW 8		CONSTRUCT 8 DCS AT BW 8 INTERCHANGE	1.0	n/a	n/a	2016	2025	\$ 169.80
7748	0598-01-906	Harris	SH 288	IH 610	BW 8	RECONSTRUCT AND WIDEN TO 8 MAIN LANES	5.6	(6,8)	n/a	2032	2035	\$ 221.00
13765	0598-02-092	Brazoria	SH 288	HARRIS C/L	CR 58	CONSTRUCT 4 TOLL LANES WITH GRADE SEPARATIONS	5.0	(0,4)	n/a	2017	2025	\$ 206.44
13767	0598-02-093	Brazoria	SH 288	CR 58	SH 99	CONSTRUCT 4 TOLL LANES WITH GRADE SEPARATIONS	8.2	(0,4)	n/a	2032	2035	\$ 261.00
17060		Brazoria	SH 288	AT FM 518		RECONSTRUCT INTERSECTION INCLUDING ADDITIONAL THROUGH AND TURN LANES ON FM 518 AND ADDITIONAL TURN LANES ON SH 288 FRTG ROADS WITH SIGNAL AND PEDESTRIAN FACILITY UPGRADES	0.0	n/a	n/a	2017	EREA (2025)	\$ 17.50
16035	0598-01-099	Harris	SH 288	AT IH 610		RECONSTRUCT INTERCHANGE	5.0	(2,2)	n/a	2032	EREA (2035)	\$ 203.00
17016	0598-02-117	Brazoria	SH 288	AT FM 518		RECONSTRUCT NB AND SB MAIN LANE BRIDGES OVER FM 518 AND DESIGN SH 288/FM 518 INTERSECTION RECONFIGURATION	0.0	(6,6)	n/a	2017	EXEMPT	\$ 11.30
<b>SH 36</b>												
263	0188-01-016	Fort Bend	SH 36	US 59 S	FM 2218	WIDEN TO 4-LANE DIVIDED WITH CONTINUOUS LEFT TURN LANE, INTERSECTION IMPROVEMENTS AND BICYCLE ACCOMMODATIONS	2.9	(2,4)	n/a	2021	2025	\$ 51.80
262	0188-02-029	Fort Bend	SH 36	FM 2218	S OF NEEDVILLE FAIRCHILD'S RD	WIDEN TO 4-LANE DIVIDED ROADWAY (CONTINUOUS LEFT TURN LANE AND RURAL IN SECTIONS) WITH INTERSECTION IMPROVEMENTS AND BICYCLE ACCOMMODATIONS	8.1	(2,4)	n/a	2019	2025	\$ 117.90

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

7/8/2016

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STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM  
HOUSTON-GALVESTON MPO - HIGHWAY PROJECTS  
FY 2018

2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	HARRIS	0389-05-116	SH 146	C	SEABROOK	\$ 79,700,000		
LIMITS FROM NASA RD 1		PROJECT SPONSOR TXDOT							
LIMITS TO GALVESTON/HARRIS CL		REVISION DATE 07/2016							
PROJECT WIDEN TO 6-LANE ARTERIAL WITH 4-LANE EXPRESS LANES		MPO PROJ NUM 14632							
DESCR		FUNDING CAT(S) 2M							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	3,905,300		CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	0	COST OF	2M	\$ 63,760,000	\$ 15,940,000	\$ 0	\$ 0	0	\$ 79,700,000
CONSTR \$	79,700,000	APPROVED	TOTAL	\$ 63,760,000	\$ 15,940,000	\$ 0	\$ 0	0	\$ 79,700,000
CONST ENG \$	3,188,000	PHASES							
CONTING \$	7,970,000	\$ 79,700,000							
INDIRECT \$	4,048,760								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	98,812,060								

2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	HARRIS	0389-05-088	SH 146	C	SEABROOK	\$ 29,000,000		
LIMITS FROM RED BLUFF RD		PROJECT SPONSOR TXDOT							
LIMITS TO NASA 1		REVISION DATE 07/2016							
PROJECT WIDEN TO 8-LANES, GS AT MAJOR INTERSECTIONS AND 2 2-LANE FRONTAGE ROADS		MPO PROJ NUM 139							
DESCR		FUNDING CAT(S) 2M							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	1,421,000		CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	40,779,606	COST OF	2M	\$ 23,200,000	\$ 5,800,000	\$ 0	\$ 0	0	\$ 29,000,000
CONSTR \$	29,000,000	APPROVED	TOTAL	\$ 23,200,000	\$ 5,800,000	\$ 0	\$ 0	0	\$ 29,000,000
CONST ENG \$	1,160,000	PHASES							
CONTING \$	2,900,000	\$ 29,000,000							
INDIRECT \$	1,473,200								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	76,733,806								

2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	HARRIS	0111-01-067	FM 521	C,R	NONE	\$ 23,750,000		
LIMITS FROM BW 8		PROJECT SPONSOR TXDOT							
LIMITS TO FORT BEND C/L		REVISION DATE 07/2016							
PROJECT WIDEN TO 4-LANE DIVIDED SECTION AND CONSTRUCT GRADE SEPARATION AT UPRR (DOT# 447		MPO PROJ NUM 534							
DESCR 969Y)		FUNDING CAT(S) 2M							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	1,127,907		CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	731,500	COST OF	2M	\$ 19,000,000	\$ 4,750,000	\$ 0	\$ 0	0	\$ 23,750,000
CONSTR \$	23,018,500	APPROVED	TOTAL	\$ 19,000,000	\$ 4,750,000	\$ 0	\$ 0	0	\$ 23,750,000
CONST ENG \$	1,150,925	PHASES							
CONTING \$	2,301,850	\$ 23,750,000							
INDIRECT \$	1,169,340								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	29,500,021								

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM  
HOUSTON-GALVESTON MPO - HIGHWAY PROJECTS  
FY 2018

2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	FORT BEND	0111-03-031	FM 521	C	PEARLAND	\$ 3,280,000		
LIMITS FROM HARRIS C/L		PROJECT SPONSOR TXDOT							
LIMITS TO S OF FM 2234		REVISION DATE 07/2016							
PROJECT WIDEN TO 4-LANE DIVIDED		MPO PROJ NUM 495							
DESCR		FUNDING CAT(S) 2M							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	160,720	COST OF APPROVED PHASES \$ 3,280,000	CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	0		2M	\$ 2,624,000	\$ 656,000	\$ 0	\$ 0	\$ 0	\$ 3,280,000
CONSTR \$	3,280,000		TOTAL	\$ 2,624,000	\$ 656,000	\$ 0	\$ 0	\$ 0	\$ 3,280,000
CONST ENG \$	196,800								
CONTING \$	328,000								
INDIRECT \$	166,624								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	4,132,144								

2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	FORT BEND	1258-03-046	FM 1093	C,E,R	NONE	\$ 17,000,000		
LIMITS FROM AT SH 99		PROJECT SPONSOR FBCTRA							
LIMITS TO		REVISION DATE 07/2016							
PROJECT WESTPARK TOLL ROAD EB-NB DIRECT CONNECTOR CONSTRUCTION		MPO PROJ NUM 16080							
DESCR		FUNDING CAT(S) 3RTR							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	555,407	COST OF APPROVED PHASES \$ 17,000,000	CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	2,833,711		3RTR	\$ 0	\$ 0	\$ 0	\$ 0	\$ 17,000,000	\$ 17,000,000
CONSTR \$	11,334,845		TOTAL	\$ 0	\$ 0	\$ 0	\$ 0	\$ 17,000,000	\$ 17,000,000
CONST ENG \$	566,742								
CONTING \$	1,133,484								
INDIRECT \$	575,810								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	17,000,000								

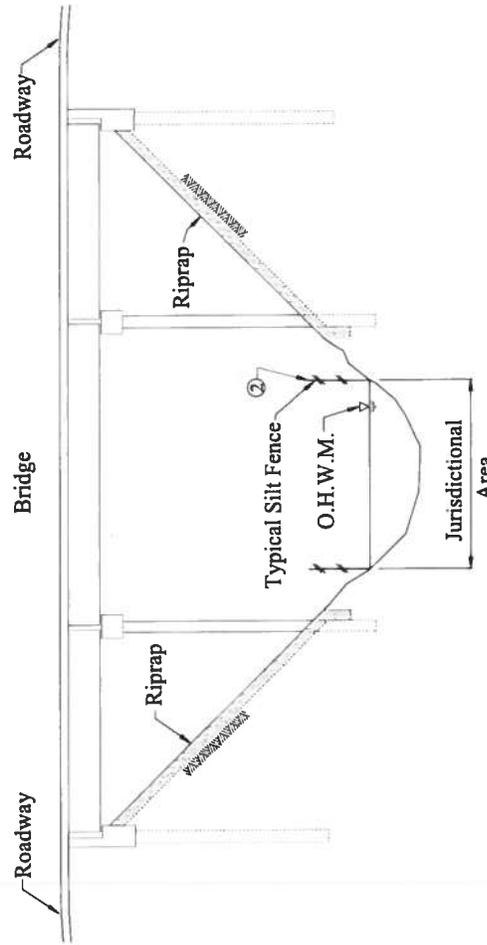
2017-2020 STIP		07/2016 Revision: Approved 12/19/2016							
DISTRICT	MPO	COUNTY	CSJ	HWY	PHASE	CITY	YOE COST		
HOUSTON	HOUSTON-GALVESTON	FORT BEND	2105-01-048	FM 2234	C,R	PEARLAND	\$ 16,880,000		
LIMITS FROM AT UPRR		PROJECT SPONSOR TXDOT							
LIMITS TO		REVISION DATE 07/2016							
PROJECT CONSTRUCT GRADE SEPARATION (DOT# 447 968S)		MPO PROJ NUM 14224							
DESCR		FUNDING CAT(S) 2M							
REMARKS		PROJECT HISTORY							
P7									
TOTAL PROJECT COST INFORMATION				AUTHORIZED FUNDING BY CATEGORY/SHARE					
PREL ENG \$	620,340	COST OF APPROVED PHASES \$ 16,880,000	CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	4,220,000		2M	\$ 13,504,000	\$ 3,376,000	\$ 0	\$ 0	\$ 0	\$ 16,880,000
CONSTR \$	12,660,000		TOTAL	\$ 13,504,000	\$ 3,376,000	\$ 0	\$ 0	\$ 0	\$ 16,880,000
CONST ENG \$	633,000								
CONTING \$	1,266,000								
INDIRECT \$	643,128								
BOND FIN \$	0								
PT CHG ORD \$	0								
TOTAL CST \$	20,042,468								

PHASE: C = CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

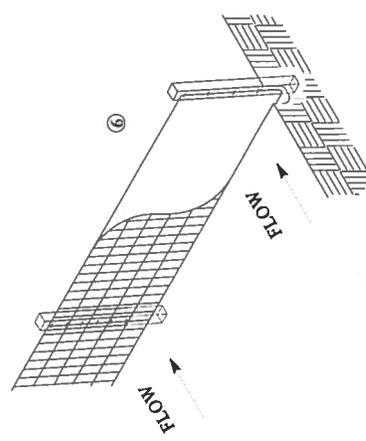


**GENERAL DESIGN CONSIDERATIONS**

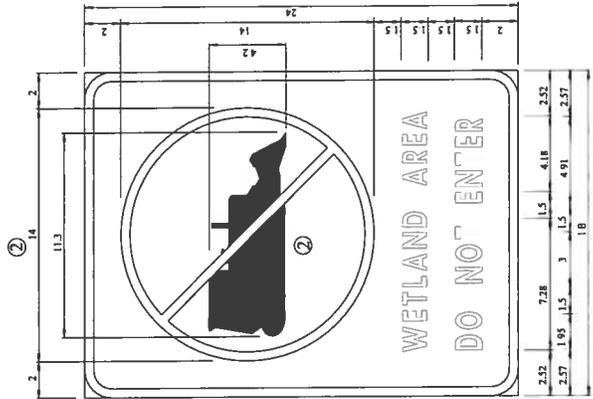
1. Ordinary high water mark (elevation) (O.H.W.M.) is determined by Environmental Project Manager and elevation is set by Surveyor.
2. All non-permitted jurisdictional wetlands and waters within the project area shall be protected by a silt fence and signage, and shall be avoided.
3. The Contractor will be required to obtain the appropriate permits if he/she alters the construction method or deviates from the permit.
4. Signs and fencing shown will not be paid for separately but are considered subsidiary to Item, "Barricades, Signs and Traffic Handling".
5. Any wetlands permitted for impacts/fill and non-permitted wetlands are shown elsewhere on plans or USACE permit.
6. See Houston Roadway Design Standard EC(1)-16 Temporary Erosion, Control Measures (Fence & Vertical Tracking) for Silt Control Fence dimensions and usage Guidelines.



**TYPICAL RELATIONSHIP OF O.H.W.M., SILT FENCE, PILING/DRILL SHAFT & RIPRAP TOE WALLS**  
N.T.S.



**TEMPORARY SEDIMENT CONTROL FENCE**



1.50" Radius, 6.50" Border, Black on White.  
[WETLAND AREA] C; [DO NOT ENTER] C;  
CIRCLE, DIAG LINE, RED

**TxDOT**  
Location District

**Texas Department of Transportation**

**ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS**

**EPIC**

FILE	DR	CL	DW	CL	SIZE
© TxDOT 2011					A3
REVISED 08/11					
1. ADDED SIGNAGE	2. ADDED SIGNAGE	3. ADDED SIGNAGE	4. ADDED SIGNAGE	5. ADDED SIGNAGE	6. ADDED SIGNAGE
PROJECT NO.	SECTION	DATE	BY	APP'D	SCALE
6	6	01/11			1"=10'
COUNTY	SECTION	JOB	ROW	ROW	ROW
6	6	6	6	6	6

REVISED 08/11  
REVISED 08/11  
REVISED 08/11  
REVISED 08/11  
REVISED 08/11  
REVISED 08/11

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DATE: Feb 14 2017