# Texas Department of Transportation Technical Provisions

**SH 183 Managed Lanes Project** 

Attachment 4-5 EPIC Sheets

reight - match text attribut ection,fence and adjust s ut do not relocate from it rify the necessary pay it Font style, size or for a numbered s grand readability I thoroughly and v lotes To Designer:
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. If additional space is needed for as needed for proportioning a .
. All areas should be addressed the support actions needed. tes Do If

#### STORMWATER POLLUTION PREVENTION PLAN-CLEAN WATER ACT SECTION 402 TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 1122. 1. Construction General Permit (CGP) requires storm, water pollution prevention plan, notice of intent, and notice of termination be prepared for the proposed improvements. No Action Required Required Action Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors. 4 When Contractor project specific locations (PSI's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404 USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas. No equipment is allowed in any stream channel below the Ordinary High Water Mark except on approved temporary stream crossings or drill pads. The Contractor must adhere to all of the terms and conditions associated with the following permit(s): No Permit Required Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected) Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters) Individual 404 Permit Required Other Nationwide Permit Required: RGP 12 For Elm Fork(Within Section 408) Required Actions: List Waters of the US Permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS. WATERS OF THE U.S. PERMIT APPROXIMATE LOCATION NWP 14/25 Sta 4527+00 to 4530+00 Bear Creek NWP 14/3 Estelle Creek Sta 155+00 NWP 14/3 Sta 220+00 Dry Creek NWP 14/3 Delaware Creek Sta 300+00 NWP 14/3 Unnamed Tributary 1 to Delaware Creek Sta 320+00 to 326+00 NWP 14/3 Unnamed Tributary 2 to Delaware Creek Sta 326+00 NWP 14/3 Unnamed Tributary 3 to Delaware Creek Sta 337+00 NWP 14/3 Unnamed Tributary 4 to Delaware Creek Sta 363+00 Sta 557+00 to 561+00 RGP 12 Elm Fork Trinity River The elevation of the Ordinary High Water Marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts (or as established by the If design changes occur to the proposed, a reassessment of potential impacts would be necessary. If Impacts to potentially

III. CULTURAL RESOURCES Refer to TxDOT Standard Specifications in the event historicalissues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately No Action Required IV. VEGETATION RESOURCES Preserve native vegetation to the extent practical. No Action Required Action No. 1. Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large areas of disturbed ground would be left bare for a considerable length of time. Seeding and replanting with TxDOT approved seeding specifications that is in compliance with Executive Order 13112 shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECI CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRD TREATY ACT

☐ No Action Required

Required Action

Required Action

Required Action

Action No.

 The Developer shall comply with all state and federal laws and regulations as related to state and federal listed threatened and endangered species. Prior to construction, the Developer shall review the most current state and federal threatened and endangered species lists to determine if changes to the lists have occurred since the applicable NEPA Approvals. If changes to the lists have occurred, the Developer shall reassess the potential project impacts to the listed species and/or their habitat. The Developer shall take all appropriate actions to comply with applicable state and federal regulations. If it is determined that adverse effects to listed species will occur, the Developer shall work with TxDOT to develop mitigation approaches. Ine Developer shall prepare any materials needed for coordination or consultation with regulatory agencies, at TxDOT's direction. TxDOT will conduct coordination or consultation with the applicable state and lederal agencies for the project. The Developer shall be responsible for any mitigation requirements identified from regulatory coordination/consultation. agency

Between October 1 and February 15, remove all inactive migratory bird nests any structures that would be affected by the proposed project, and plete any bridge work and/or vegetation clearing. Between February 15 and October 1, the Developer would be prepared to prevent migratory birds from building nests. In the event that migratory birds are encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs and/or young would be avoided. If species are present, work should cease at that location and TxDOT personnel should be contacted. If any active nests are found, the local USFWS biologist should be contacted by TxDOT to determine an appropriate plan of action.

REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN FOR SECTION V - CONTINUATION
FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA
WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

## LIST OF ABBREVIATIONS

BMP: Best Management Practice CGP: Construction General Permit DSHS: Texas Department of State Health Services FHWA: Federal Highway Administration

MOA: Memorandum of Agreement MOU: Memorandum of Understanding

MSDS: Material Safety Data Sheets MBTA: Migratory Bird Treaty Act NOT: Notice of Termination

NWP: Nationwide Permit

NOI: Notice of Intent

SPCC: Spill Prevention Control and Countermeasure SW3P: Storm Water Pollution Prevention Plan PCN: Pre-Construction Notification

PSL: Project Specific Location RGP: Regional General Permit

TCEQ: Texas Commission on Environmental Quality MS4: Municipal Separate Stormwater Sewer System TPDES: Texas Pollutant Discharge Elimination System

TPWD: Texas Parks and Wildlife Department TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species

TSS: Total Suspended Solids USACE: U.S. Army Corp of Engineers USFWS: U.S. Fish and Wildlife Service

## VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels, and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Developer shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer and Developer's Environmental Compliance Manager if any of the following are detected:

- Dead or distressed vegetation (not identified as normal)
- \* Trash piles, drums, canisters, barrels, etc. \* Undesirable smells or odors
- Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

X Yes

If "No", then no further action is required.

If "Yes", then the Developer is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

□ N/A ☐ No

If "Yes", then the Developer must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then the Developer is still required to notify DSHS 15 working days prior to any

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Developer and the asbestos consultant.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

No Action Required

Required Action

Action No.

1. The Developer shall comply with the recommendations of the limited Phase 1 environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per the Contract Documents. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. All construction materials used for this project would be removed as soon as the work schedules permit.

## VII. OTHER ENVIRONMENTAL ISSUES

(includes regionalissues such as Trinity River Corridor Development Certificate, etc.)

REFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN FOR SECTION VII - CONTINUATION FOR LIST OF OTHER ENVIRONMENTAL ISSUES

CONTROL-SECTION-JOB NUMBERS (CSJ'S)

0094-03-065, 0094-07-020, 0094-07-015

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## ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS (FPIC)

FED.RD. DIV.NO.	FEI	HIGHWAY NO.	
6		SH_ 183	
STATE	DIVISION	Dallas	
TEXAS	SPD	DALLAS	SHEET
CONTROL	SECTION JOB		NO.
			1 of 2

GENERAL NOTE:

Any change orders and/or deviations from the final design must be reported to TxDOT prior to commencement of construction activities, as additional environmental clearance may be required.

LAST REVISION: MAY 2012

SH 183 Manged Lanes Project March 11, 2014

jurisdictional features are identified due to the Developer's

obtaining the appropriate Section 404 permits.

REFER TO EPIC SHEET 2 OF 2 - LEFT COLUMN FOR SECTION II - CONTINUATION FOR BEST MANAGEMENT PRACTICES

methodologies or activities, the Developer would be responsible for

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actice Act". sver. 1 to other		MS, WATERBODIES AND WETL 04(CONTINUATION FROM EF		·	ATENED, ENDANGERED SPECIES, CRITICAL CANDIDATE SPECIES AND MIGRATORY BIR M EPIC SHEET 1 OF 2)	D (CONTINI	R ENVIRONMENTAL ISSUES JATION FROM EPIC SHEET 1 OF regionalissues such as Edwards Aquifer Di	istrict, etc.)			
ering Practice is whatsoever. standard to of its use.	3	or applicable Section 401 Gene	eral	Species Potentially within Project Area w/ Descrip  1. Alligator Snapping Turtle: Characterized by a head, and a long, thick shell with three dorsal	large heavy Perennial water bodies; deep		Action Required Require  Runoff from this project discharges  0841 of the lower West Fork of the threatened/impaired for PCB's, dioxi	s within 5 s Trinity Riv	er basin wh	hich is listed as	gment
Engine purpos of this from	Conditions:  Erosion  Temporary Vegetation	Sedimentation  ☐ Silt Fence	Post-Construction TSS  Vegetative Filter Strips	large scales. They can be immediately disting the common snapping turtle by the three of spikes and raised plates on the carapace are a solid gray, brown, black, or olive-green	guished from and oxbows; also swamps, bayous listinct rows and ponds near deep running water /shell. They sometimes enters brackish coasta	er;	tissue on the Texas 2012 303(d) lis the constituent of concern at this lo The proposed project is located wit	st. Select ap ocation. thin the bo	ppropriate (	BMP's to control f the Cities of Fort W	
the "Texa T for al conversion	☐ Blankets/Matting ☐ Mulch	Rock Berm Triangular Filter Dike	Retention/Irrigation Systems Extended Detention Basin	and often covered with algae.	bottom and abundant aquatic vegetation; may migrate several miles along rivers; active March-October; breeds April-Octob	Requirements  3. Trinity River	Irving, and Dallas and TxDOT's munic Phase Land Euless Phase Il permits is required. Portions of the project cross the T	. Camplianc	ce with the	applicable MS4 pern	mit(s)
erned by by TxDc r for the or damag	Sodding Interceptor Swale Diversion Dike	Sand Bag Berm Straw Bale Dike Brush Berms	Constructed Wetlands Wet Basin Erosion Control Compost	Bold Eagle: The plumage of an adult Bald Eagler dark brown with a white head and tail. The tanderately long and slightly wedge-shaped. The shaped of th	gle is evenly Found primarily near rivers and large lakes; nests in tall trees	Corridor	Development Certificate (CDC) is recoordinate and obtain the CDC.  Hydraulic design to be In accordance.	quired. The	Developer	Is responsible to	
AMER: se of this standard is governed by the "Texas rranty of any kind is made by TxDOT for any assumes no responsibility for the conversion ts or for incorrect results or damage resulting	☐ Erosion Control Compost ☐ Mulch Filter Berm and Socks ☐ Compost Filter Berm and Socks	☐ Erosion Control Compost ☐ Mulch Filter Berm and Socks ☐ Compost Filter Berm and Socks ☐ Stone Outlet Sediment Traps		feet are bright yellow. The legs are feather- toes are short and powerful with large talons of the immature bold eagle is a dark brown messy white streaking until the fifth year.	free, and the roosts, especially in winter; hunts. The plumage live prey, scavenges, and pirates		procedures. The proposed improver of the design year flood, inundation without causing substantial damage The proposed project must not incr that would violate applicable floodpl	of the roc to the high rease the t	adway being nway, strean base flood	g acceptable, m or other property elevation to a level	
this stand of any Ki mes no r		Sediment Basins	Julio Filter Systems	Timber/Canebrake Rattlesnake: Timber rattlet wide heads and narrow necks (typical distinc venomous snakes except coral snakes Micrur Timber rattlers are the second largest venor	tion of all and deciduous woodlands, riparian us fulvius). zones, abandoned formland: limest bluffs; sandy soil or black clay;		or treating disturbed areas with du loaded trucks and other dust abate	st suppress ement contr	sion techniq rols as app	ques, sprinkling, cover propriate.	
DISCLAIMER. The use of the Norman Markanty TxDOT assurted the contraction of the contract	Refer also to the SW3P, project Best Management Practices.	specific EPIC sheets, and Project	GeneralNotes for project specific	Texas and third largest in the United States rattlesnakes reach a length of 36 to 40 inc cm), and weigh 1.3 to 2 pounds (0.58 to 0. have a heavy, light yellow, gray or greenish-va rust-colored strip along the length of thei black tail is tipped with rattles. Timber rattles	thes (91 to 101 gropevines or palmetto. 9 kg). They white body with r back and a	6. Construction Emissions Reduction Plan	The Texas Emissions Reduction Platencourage the development of multi in Texas is both safe to breathe a TxDOT encourages Developers to a possible to minimize dieselemissions be found at http://www.tceq.state.u	i-pollutant o and meets a atilize the T s. Informati	approaches minimum fe TERP progre ion about th	s to ensure that the ederalstandards. ram to the fullest e he TERP program co	extent
iown ion. to				yellow eyes with elliptical or cat-like pupils. T dark, V-shaped crossbars with jagged edges distinctive pattern across their back.  4. Mussels (Louisiana pigtoe, Texas heelsplitter):	form a  Adults can Small and large rivers especially a		Developer to make every reasonab abatement measures such as work- construction at residential areas) an Notify city and local safety officials timing and necessary rerouting of	-hour contr nd proper m s of propos	rols (i.e., mi maintenance sed road cl	inimization of nighttin e of muffler systems. losures or detours. D	me s. Detour
xt attributes. ' ad just sections up or down e from its relative position. ary pay items are set up to				range from approximately 1-inch to 12-Inc Some species have thin shells and shells van the inside and outside of mussels, depending Color, texture and shape variations in shells help identify types of mussels.	y both on gravel, also still to swiftly flowing on species. waters.	8. Visual Resources/	the proper local officials. Lane closu TxDOT requirements and the Manual TxDOT has begun discussions with	ures and de al of Uniforn local Jurisd	etours are m Traffic ( dictions rego	to comply with Control Devices. arding aesthetic feat	
ibutes. Ist section In its rek y items a				Species of Concern - additional of habitat information can be found 1. Western Burcowing Owl:	in NEPA documents. 4.Plains Spotted Skunk:	Aesthetics  9. Threatened and Endangered	The Developer shall adhere to the		·		
2 3 g e				2. Black Lordithon Beetle: 3. Cave Myotis Bat:	5.Texas Garter Snake: 6.Fawsfoot, Little Spectaclecase, and Wabash Pigtoe:	Species  10. Habitat  Mitigation	7.75 acres of unusual habitat vege Lake Environmental Learning Center		ıd be mitigc	ated on tracts at Le	ewisville
weight - match t section, fence ar but do not reloce verify the neces.			<	If any of the listed species are observed, cease do not disturb species or habitat and contact the work may not remove active nests from bridge nesting season of the birds associated with the are discovered, cease work in the immediate are Engineer Immediately.	e Engineer immediately. The s and other structures during nests. If caves or sinkholes	11. Noise	The wall at the O'Connor Road over as part of the interim SH 183 processbound frontage road lanes betweetended approximately 100 feet.	ject. The	constructed	ed barrier along the	be
nt style, size or v ir a numbered si ind readability b thoroughly and ve			2	Special Note: The Migratory Bird Treaty Accapture, collect, possess, buy, sell, trade young, feather or egg in part or in whole, accordance within the Act's policies and rev	or transport any migratory bird, nest, without a federal permit issued in	12. Section 408	Developer shall be responsible for a	obtaining co			
			OK	remove all inactive migratory bird nests from October 1 to February 15. In addition prevent migratory birds from building ne	om any structures where work would be dition, the Developer would be prepared			0		CTION-JOB NUMBERS (CSJ'S	-
Design or Fo e is needed fo proportioning be addressed needed.				effort to avoid adverse impacts on protect would be required.  LIST OF ABE			ers and/or deviations from		Dalla	s Department of Tr	rd
'gner: Sheet Dessil space is to proponould be additions need				BMP: Best Management Practice CGP: Construction General Permit DSHS: Texas Department of State Health Services FHWA: Federal Highway Administration MOA: Memorandum of Agreement	SPCC: Spill Prevention Control and Countermeasure SW3P: Storm Water Pollution Prevention Plan PCN: Pre-Construction Notification PSL: Project Specific Location TCEQ: Texas Commission on Environmental Quality	prior to comme construction ac	must be reported to TxDOT neement of tivities, as additional earance may be required.	ISSUE	ES AN	ENTAL PERI ID COMMITM (EPIC)	MENTS
Notes To Designer:  1. Do not after Sheet L. 2. If additional space as needed for pl 3. All areas should be support actions n				MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer System MSDS: Material Safety Data Sheets MBTA: Migratory Bird Treaty Act NOT: Notice of Termination NWP: Nationwide Permit	TPDES: Texas Pollutant Discharge Elimination System TPWD: Texas Parks and Wildlife Department TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species TSS: Total Suspended Solids USACE: U.S. Army Corps of Engineers	This document is rel and is subject to approving agencies ar	eased for information purposes change based on comments from nd public input. It is not to be r construction purposes	FED.RD. DIV.NO.  6 STATE TEXAS CONTROL	DIVISION	COUNTY  DALLAS  JOB	HIGHWAY NO.  SH 183 Dollas  SHEET NO.
31.9 W				NOI: Notice of Intent	USFWS: U.S. Fish and Wildlife Service		LAST REVISION: MAY 2012		T		2 of 2

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STORMWATER POLLUTION PREVENTION PLAN-CLEAN WATER ACT SECTION 402 TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 1122 1. Construction General Permit (CGP) requires storm water pollution prevention plan, notice of intent, and notice of termination be prepared for the proposed improvements. ☐ No Action Required Required Action Action No 1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000. 2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors. 4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404 USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas. No equipment is allowed in any stream channel below the Ordinary High Water Mark except on approved temporary stream crossings or drill pads. The Contractor must adhere to all of the terms and conditions associated with the following permit(s): ■ No Permit Required Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected) Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters) Individual 404 Permit Required Other Nationwide Permit Required: utes. t sectic its re items Required Actions: List Waters of the US Permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation t attribu ad just from i ry pay it and post-project TSS. h text a and ad ocate fi essary WATERS OF THE U.S. APPROXIMATE LOCATION PERMIT NWP 14/3 Unnamed Tributary 1 to Trinity River SH 183 Sta 4363+00 NWP 14/3 Unnamed Tributary to Bear Creek SH 183 Sta 4523+00 to 4528+00 SH 183 Sta 4528+00 to 4530+00 NWP 14/25 Regr Creek weight section, but do Font style, size or to for a numbered song and readability and thoroughly and vertices. The elevation of the Ordinary High Water Marks of any greas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts (or as established by the Design or Forms is needed for proportioning conducessed theeded. If design changes occur to the proposed, a reassessment of potential impacts would be necessary. If Impacts to potentially jurisdictional features are identified due to the Developer's methodologies or activities, the Developer would be responsible for 58 E is obtaining the appropriate Section 404 permits. REFER TO EPIC SHEET 2 OF 2 - LEFT COLUMN FOR SECTION II - CONTINUATION FOR BEST MANAGEMENT PRACTICES

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

Required Action No Action Required

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☐ No Action Required

Required Action

1. Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large areas of disturbed ground would be left bare for a considerable length of time. Seeding and replanting with TxDOT approved seeding specifications that is in compliance with Executive Order 13112 shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECI AND MIGRATORY BIRD TREATY ACT

☐ No Action Required

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Action No.

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REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN FOR SECTION V - CONTINUATION FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

## LIST OF ABBREVIATIONS

BMP: Best Management Practice CGP: Construction General Permit DSHS: Texas Department of State Health Services

FHWA: Federal Highway Administration MOA: Memorandum of Agreement MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer System MSDS: Material Safety Data Sheets

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TSS: Total Suspended Solids USACE: U.S. Army Corps of Engineers USEWS: U.S. Fish and Wildlife Service. VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects)

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

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Contact the Engineer and the Developer's Environmental Compliance Manager if any of the following are detected: Dead or distressed vegetation (not identified as normal)

Trash piles, drums, canisters, barrels, etc.

Undesirable smells or odors

\* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

If "No", then no further action is required.

If "Yes", then the Developer is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

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In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Developer and the asbestos consultant

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

No Action Required

Required Action

1. The Developer shall comply with the recommendations of the limited Phase 1 environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per the Contract Documents. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. All construction materials used for this project would be removed as soon as the work schedules permit.

## VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

REFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN FOR SECTION VII - CONTINUATION FOR LIST OF OTHER ENVIRONMENTAL ISSUES

CONTROL-SECTION-JOB NUMBERS (CSJ'S) 0364-01-054, 0364-05-025, 0364-05-925, 0094-02-077, 0094-02-977

🅯 2012 🗯 Texas Department of Transportation Dallas District Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (FPIC)

FED.RD. DIV.NO.	FEI	HIGHWAY NO.	
6			SH 183 SEGMENT 2
STATE	DIVISION	COUNTY	SEGMENT 2
TEXAS	SPD	TARRANT/DALLAS	SHEET
CONTROL	SECTION	JOB	NO.
			1 of 2

GENERAL NOTE:

Any change orders and/or deviations from the final design must be reported to TxDOT prior to commencement of construction activities as additional environmental clearance may be required.

LAST REVISION: MAY 2012

SH 183 Manged Lanes Project March 11, 2014

ractice Act". soever. ird to other	II. WORK IN OR NEAR STREAM ACT SECTIONS 401 AND 40			V. FEDERAL LISTED, PROPOSED THREAT		(CONTINUATION	/IRONMENTAL ISSUES FROM EPIC SHEET 1 OF	r District, etc.)
gineering Practice , pose whatsoever. this standard to ot om its use.	Best Management Practices for ap Conditions:	oplicable Section 401 General		CRITICAL HABITAT, STATE LISTED SP AND MIGRATORY BIRD TREATY ACT (CONTINUATION FROM EPIC SHEET 1		☐ No Action Re	Runoff from this project o	discharges within 5 stream miles
's standard is governed by the "Texas Engineer f any kind is made by TxDOT for any purpose es no responsibility for the conversion of this s r incorrect results or damage resulting from it	Erosion  Temporary Vegetation  Blankets/Matting  Mulch  Sodding  Interceptor Swale  Diversion Dike  Erosion Control Compost  Mulch Filter Berm and Socks  Compost Filter Berm and Socks	Sedimentation  Silt Fence Rock Berm Triangular Filter Dike Sand Bag Berm Straw Bale Dike Brush Berms Erosion Control Compost Mulch Filter Berm and Socks Compost Filter Berm and Socks Stone Outlet Sediment Traps	Post-Construction TSS  Vegetative Filter Strips  Retention/Irrigation Systems  Extended Detention Basin  Constructed Wetlands  Wet Basin  Erosion Control Compost  Mulch Filter Berm and Socks  Compost Filter Berm and Socks  Sompost Filter Systems	Species Potentially within Project Area w/ Description  1. Texas Garter Snake: A small to medium size terrestrial snake that can grow to about 39 inches long. Their backs are green to black with a distinctive stripe of red or orange a either side features yellowish stripes.	conducive to the species occurrence, but the snake is not necessarily	2. MS4/Requirements 3. Floodplains	threatened/impaired for PC in edible tissue on the Tex BMPs to control the constitute of Bedford, Fort Worth, Eulstorm sewer system (MS4 applicable MS4 permit(s) is Hydraulic design to be In a policy procedures. The proconveyance of the design being aoceptable, without a highway, stream or other process.	accordance with TxDOT and FHWA design posed improvements would permit the year flood, inundation of the roadway ausing substantial damage to the property. The proposed project must not evation to a level that would violate
DISCLAIMER: The use of thi No warranty of TXBOT assum formats or fo	Refer also to the SW3P, project-Best Management Practices.	-specific EPIC sheets and Project	General Notes for project specific		< <o< td=""><td>4. Construction Air Quality  5. Construction Emissions Reduction Plan</td><td>such as covering or treating techniques, sprinkling, cover abatement controls as app.  The Texas Emissions Redur programs to encourage the to ensure that the air in Taminimum federal standards the TERP program to the</td><td>ction Plan (TERP) Includes Incentive e development of multi-pollutant approaches 'exas is both safe to breathe and meets . TxDOT encourages Developers to utilize fullest extent possible to minimize diesel ut the TERP program can be found at</td></o<>	4. Construction Air Quality  5. Construction Emissions Reduction Plan	such as covering or treating techniques, sprinkling, cover abatement controls as app.  The Texas Emissions Redur programs to encourage the to ensure that the air in Taminimum federal standards the TERP program to the	ction Plan (TERP) Includes Incentive e development of multi-pollutant approaches 'exas is both safe to breathe and meets . TxDOT encourages Developers to utilize fullest extent possible to minimize diesel ut the TERP program can be found at
ntributes. Just sections up or down rom its relative position. pay items are set up to				If any of the <b>listed species</b> are observed, ceas	e work In the immediate area,	6. Construction Impacts	Developer to make every a noise through abatement m minimization of nighttime or proper maintenance of muf sofety officials of propose timing and necessory rerol coordinated with the prope	reasonable effort to minimize construction neasures such as work-hour controls (i.e., onstruction at residential areas) and iffer systems. Notify city and local d road closures or detours. Detour uting of emergency vehicles would be er local officials. Lane closures and h TxDOT requirements and the Manual of
size or weight - match text ambered section, fence and actability but do not relocate filly and verify the necessary				do not distarb species or habitat and contact the work may not remove active nests from bridgenesting season of the birds associated with the are discovered cease work in the immediate a Engineer immediately.  SpecialNote: The Migratory Bird Treaty Act of capture, collect, possess, buy, sell, trade or train young, feather or egg in part or in whole, without accordance within the Act's policies and regular remove all old migratory bird nests from any done from October 1 to February 15. In additional contracts.	the Engineer immediately. The ges and other structures during e nests. If caves or sinkholes rea, and contact the  1918 states that it is unlawful to kill, ansport any migratory bird, nest, but a federal permit issued in tions. The Developer would structures where work would be	7. Visual Resources/Aesthetics 8. Noise	aesthetic features. The De to the aesthetic requireme Barriers would be located between Industrial Boulevard 9 and 11), at a residential a	•
le, si, numb eada ighly				to prevent migratory birds from building nest(  In the event that migratory birds are encounte.	s) between February 15 to October 1.			CONTROL-SECTION-JOB NUMBERS (CSJ'S)
nt style, r a nun nd rea horough				effort to avoid adverse impacts on protected would be observed.	- · · · · · · · · · · · · · · · · · · ·			0364-01-054, 0364-05-025, 0364-05-925, 0094-02-077, 0094-02-977
r For						GENERAL NOTE:		© 2012 Texas Department of Transportation
igner: Sheet Design of Space is needed if for proportion bould be addressions needed.				BMP: Best Management Practice CGP: Construction General Permit DSHS: Texas Department of State Health Services FHWA: Federal Highway Administration MOA: Memorandum of Agreement	SPECVIATIONS  SPCC: Spill Prevention Control and Countermeasure SW3P: Storm Water Pollution Prevention Plan PCN: Pre-Construction Notification PSL: Project Specific Location TCEQ: Texas Commission on Environmental Quality	Any change orders and/ the final design must be TXDOT prior to commer construction activities, c environmental clearance	reported to ncement of as additional	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)
Notes To Des.  1. Do not after 2. If additions as neas st support a				MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer System MSDS: Material Safety Data Sheets MBTA: Migratory Bird Treaty Act NOT: Notice of Termination NWP: Nationwide Permit NOI: Notice of Intent	TPDES: Texas Pollutant Discharge Elimination System TPWD: Texas Parks and Wildlife Department TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species TSS: Total Suspended Solids USACE: U.S. Army Corps of Engineers USFWS: U.S. Fish and Wildlife Service	This document is released for and is subject to change be approving agencies and public in used for construc	sed on comments from nput. It is not to be	FED.RD.

Notes To Designer:

1. Do not after Sheet Design of a difference of sheet as needed for proportion.

3. All areas should be addres support actions needed.

Revised: May 2012
Prepared by L. Petit of HNTB

I.	STORMWATER POLLUTION PREVENTION PLAN-CLEAN WATER ACT SECTION 402
	TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 1122.
	<ol> <li>Construction General Permit (CGP) requires storm water pollution prevention plan, notice of intent, and notice of termination be prepared for the proposed improvements.</li> </ol>
	☐ No Action Required ☑ Required Action
	Action No.
	<ol> <li>Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000.</li> <li>Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.</li> </ol>
	<ul> <li>3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.</li> <li>4. When Developer project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.</li> </ul>
ΙΙ	. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404
	USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas. No equipment is allowed in any stream channel below the ordinary High Water Mark except on approved temporary stream crossings or drill pads.
	The Developer must adhere to all of the terms and conditions associated with the following $\operatorname{permit}(s)$ :
	No Permit Required
	Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
	☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
	☐ Individual 404 Permit Required
	Other Nationwide Permit Required: NWP#
	Required Actions: List Waters of the US Permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.
	For Proposed Improvements - No permanent or temporary Section 404 impacts are anticipated for the interim improvements based on the schematic.
	The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts (or as established by the Developer).
	If design changes occur to the proposed project, a reassessment of potential impacts would be necessary. If impacts to potentially
	jurisdictional features are identified due to the Developer's methodologies or activities, the Developer would be responsible for obtaining the appropriate Section 404 permits.
	REFER TO EPIC SHEET 2 OF 2 - LEFT COLUMN

## III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

No Action Required Required Action

Action No.

2.

#### IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☐ No Action Required Required Action

Action No.

Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large reas of disturbed ground would be left bare for a considerable time. Seeding and replanting with TxDOT approved specifications that is in compliance with Executive Order 13112 shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT.

☐ No Action Required

 $oxed{oxed}$  Required Action

Action No.

1. The Developer shall comply with all state and federal laws and regulations as related to state and federal listed threatened and endangered species. Prior to construction, the Developer shall review the most current state and federal threatened and endangered species lists to determine if changes to the lists have occurred since the applicable NEPA Approvals. If changes to the lists have occurred, the Developer shall reassess the potential project impacts to the Nisted species and/or their habitat. The Developer shall take all appropriate actions to comply with applicable state and federal regulations. If it is determined that adverse effects to listed species will occur, the Developer shall work with TxDOT to develop mitigation approaches. The Developer shall prepare any materials needed for coordination or consultation with regulatory agencies, at TxDOT's direction. TxDOT will conduct coordination or consultation with the applicable state and federal agencies for the project. The Developer shall implement the required actions established from regulatory agency coordination/consultation that are necessary to satisfy TxDOT's mitigation obligation

Between October 1 and February 15, remove all old migratory bird nests from any structures that would be affected by the proposed project, and complete any bridge work and/or vegetation clearing. Between February 15 and October 1, the Developer would be prepared to prevent migratory birds from building nests. In the event that migratory birds are encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs and/or young would be avoided. If species are present, work should cease at that location and TxDOT personnel should be contacted. If any active nests are found, the local USFWS biologist should be contacted by TxDOT to determine an appropriate plan of action.

REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN FOR SECTION V - CONTINUATION FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

	LIST OF	ABBREV:	IATIONS
BMP:	Best Management Practice	STA:	Stations
CDC:	Corridor Development Certificate	PCC:	Spill Pr
CGP:	Construction General Permit	SW3P:	Storm W
CSN:	Construction Site Notice	PCN:	Pre-Con
DSHS:	Texas Department of State Health Services	PSL:	Project
EPA:	Environmental Protection Agency	TCEQ:	Texas C
FHWA:	Federal Highway Administration	TERP:	Texas E
ML:	Mainlanes	TPDES:	Texas P
MOA:	Memorandum of Agreement	TPWD:	Texas P
MOU:	Memorandum of Understanding	TSS:	Total S
MS4:	Municipal Separate Stormwater Sewer System	n TXDOT:	Texas D
NEPA:	National Environmental Policy Act	T&E:	Threate
NOT:	Notice of Termination	USACE:	U.S. An
NWP:	Nationwide Permit	USFWS:	U.S. Fi
NOI:	Notice of Intent		

Spill Prevention Control and Countermeasure Storm Water Pollution Prevention Plan Pre-Construction Notification Project Specific Location PCC: PSL: TCEQ: TERP: Texas Carmissions Reduction Plan
Texas Pollutant Discharge Elimination System TPDES: Texas Parks and Wildlife Department Total Suspended Solids TSS: Total Suspended Solids
TxDOT: Texas Department of Transportation TRUE: Threatened and Endangered Species USACE: U.S. Army Corp of Engineers USFWS: U.S. Fish and Wildlife Service

#### VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, accordance with safe work practices, and contact the District Spill Coordinator Nately. The Developer shall be responsible for the proper containment and cleanup all product spills.

Contact the Engineer and Developer's Environmental Compliance Manager if any he following are detected:

- Dead or distressed vegetation (not identified as normal)
- Trash piles, drums, canisters, barrels, etc.
- Undesirable smells or odors
- Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

X Yes

If "No", then no further action is required.

If "Yes", then the Developer is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

If "Yes", then the Developer must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then the Developer is still required to notifiy DSHS 15 working days prior to any scheduled demolition.

In either case, the Developer is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Developer and

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

M Required Action ■ No Action Required

Action No.

1. The Developer shall comply with the recommendations of the limited Phase 1 environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per the Contract Documents. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. all construction materials used for this project would be removed as soon as the work schedules permit.

#### VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

	EFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN	
	EFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN OR SECTION VII - CONTINUATION OR OTHER ENVIRONMENTAL ISSUES	
L	OR OTHER ENVIRONMENTAL ISSUES	-

environmental clearance may be required.

## PREPARED FOR INTERIM IMPROVEMENTS

CONTROL - SECTION - JOB NUMBERS (CSJ's) 0581-02-077, 0581-02-128, 0581-02-911, 0094-03-116, 0094-03-976, 0581-02-124,

Dallas District Standard

0094-03-060, 0196-03-137 © 2014 Texas Department of Transportation

Any change orders and/or deviations from ENVIRONMENTAL PERMITS. the final design must be reported to the Engineer prior to commencement of ISSUES AND COMMITMENTS construction activities, as additional

(EPIC) FEDERAL AID PROJECT NO. This docu and is s approvin

ument is released for informational purposes	6	SE	EE TITLE SHEET	I D 1
subject to change based on comments from	STATE	DISTRICT	COUNTY	LFI
ng agencies and public input. It is not to be used for construction purposes.	TEXAS	DALLAS	DALLAS	SHEET
, ,	CONTROL	SECTION	JOB	NO.
LAST REVISION: MAY 2012	0581	02	077, etc.	

SH 183 Manged Lanes Project March 11, 2014

FOR SECTION II - CONTINUATION

FOR BEST MANAGEMENT PRACTICES

HIGHWAY

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TXDOT assumes no responsibility for the conversion of this standard to other

Notes To Designer:

1. Do not after Sheet Design or Fant style, size or weight - match text attributes.

2. If additional space is needed for a numbered section, fence and adjust sections up or down as needed for proportioning and readability but do not relocate from its relative position.

3. All areas should be addressed thoroughly and verify the necessary pay items are set up to

0110	II. WORK IN OR NEAR STR ACT SECTIONS 401 AN	EAMS, WATERBODIES AND N		V. FEDERAL LISTED, PROPOSED THREAT CRITICAL HABITAT, STATE LISTED AND MIGRATORY BIRDS TREATY ACT.			IVIRONMENTAL ISSUE: I FROM EPIC SHEET	
0				(CONTINUATION FROM EPIC SHEEET	1 OF 2)	(includes region	nal issues such as Edwo	ards Aqui
6. 6.						☐ No Action Re	quired 🛛 Re	quired Ac
usi US	Best Management Pract	ices for applicable Sect	ion 401 General	Species Potentially within	Habitat Description	Action No.		
175	Conditions:	други други други други		Project Area w/ Description	·	1. Water Quality	Runoff from this proj	ject disc
resulting from	Erosion  ☑ Temporary Vegetation ☐ Blankets/Matting ☑ Mulch	Sedimentation ⊠ Silt Fence ⊠ Rock Berm □ Triangular Filter Dike	Post-Construction TSS  Vegetative Filter Strips Retention/Irrigation Systems Extended Detention Basin	<ol> <li>Cave Myotis Bat: Relatively larger than typical Myotis. It can be distinguished by the presence of a conspicuous bare patch on its back. Its color is brown and it has short ears.</li> </ol>	Cave-dwelling; also roosts in old buildings and under bridges; roosts in clusters of up to thousands of individuals; hibernates during winter, opportunistic insectivore.	2. M≶4 Requirements	of Segment 0802 of Up threatened/impaired 1 Texas 2012 303(d) lis constituent of concer The proposed project	for PCB's st. Selection at this
damge	Sodding ☐ Interceptor Swale	Sand Bag Berm Straw Bale Dike	Constructed Wetlands			<b>'</b>	of Irving and Dallas system (MS4) Phase I permit(s) is required	permits.
sults or	☐ Diversion Dike ☐ Erosion Control Compost	Brush Berms Erosion Control Compost	☐ Erosion Control Compost ☐ Mulch Filter Berm and Socks		4	3. Trinity River Corridor	Portions of the proje a Corridor Developmer Developer is respons	nt Certif
ussumes no responsibility of the conversion of this standar is or for incorrect results or damge resulting from its use.		cks Compost Filter Berm and Soc Stone Outlet Sediment Traps Sediment Basins  nd Project General Notes for	S Sand Filter Systems		CKY	4. Floodplains	Hydraulic design to to policy procedures. To conveyance of the design acceptable, with highway, stream or of increase the base floapplicable floadplair change in commitment	be in acc The propo sign year thout cau ther prop ood eleva n regulat
formats						5. Construction Air Quality	Incorporate measures such as covering or techniques, sprinkling abatement controls as	treating on
						6. Construction Emissions Reduction Plan	The Texas Emissions F programs to encourage to ensure that the al minimum federal stand the TERP program to the emissions. Information http://www.tceq.state	e the devi ir in Tex dards. T the fulle ion about
				If any of the listed species are observed, do not disturb species or habitat and conta work may not remove active nests from bridg	ct the Engineer immediately. The es and other structures during	7. Construction Impacts	Developer to make evenoise through abateme minimization of night proper maintenance of officials of proposed necessary rerouting of the proper local officomply with TxDOT recontrol Devices.	ent measu ttime con f muffler d road cl of emerge icials.
03/07/2014 ר				nesting season of the birds associated with are discovered, cease work in the immediate Engineer immediately.  Special Note: The Migratory Bird Act of 1918 stacepture, collect, possess, buy, sell, trade or to young, feather or egg in part or in whole, without	d area, and contact the  ites that it is unlawful to kill,  ransport any migratory bird, nest,  ut a federal permit issued in	8. Visual Resources/Aesthetics	TxDOT has begun discu aesthetic features ar to these aesthetic re	nd antici
č				accordance within the Act's policies and regulat remove all old migratory bird nests from any str	ucture where work would be			05
at is				done from October 1 to February 15. In addition, to prevent migratory birds from building nest(s)	between February 15 to October 1.			00
Corpor				In the event that migratory birds are encountere efforts to avoid adverse impacts on protected bi would be observed.		GENERAL NOTE:		© 2014
HNTB				LIST OF ABBREVIATI	ONIC	Any change orders and		ENIV.
<b>o</b> f				BMP: Best Management Practice CDC: Corridor Development Certificate STA: 5 CDC: Construction General Permit PCC: CSN: Construction Site Notice SWSP: Taxps Department of State Health Services PCN:	stations Spill Prevention Control and Countermeasure Storm Water Pollution Prevention Plan Pre-Construction Notification	the final design mus Engineer prior to cor construction activit environmental cleara	mmencement of ies, as additional	ENV ISS
Revised: May 2012 Prepared by L. Petit				EPA: Environmental Protection Agency FHWA: Federal Highway Administration TCEQ:	Project Specific Location Texas Commission on Environmental Quality			FED. RD. DIV. NO.
26. 7				ML: Mainlanes IERP: MOA: Memorandum of Agreement TPDES:	Texas Emissions Reduction Plan Texas Pollutant Discharge Elimination System Texas Parks and Wildlife Polar transf	This document is released	for informational purposes	6
2 : D				MS4: Municipal Separate Stormwater Sewer System TSS:	Texas Parks and Wildlife Department Total Suspended Solids Texas Department of Transportation	This document is released and is subject to change approving agencies and p used for constru	public input. It is not to be	TEXAS
/ise				NOT: Notice of Termination  NOT: Notice of Termination  T&E:  LISACF:	Threatened and Endangered Species	2000 101 0011011	33.73.7 par poodu.	CONTROL
P.P.				NWP: Nationwide Permit USACE: NOI: Notice of Intent USFWS:	U.S. Fish and Wildlife Service		LAST REVISION: MAY 2012	0581

VII. OTHER ENVIRONMENTAL ISSUES (CONTINUATION FROM EPIC SHEET 1 OF 2)						
		al issues such as Edwa		er District, etc.)		
	☐ No Action Re	-	uired Act			
	Action No.					
1. Wo	ater Quality	of Segment 0802 of Up threatened/impaired f	per Trinit or PCB's c t. Select	arges within 5 stream miles upstream ty River which is listed as and dioxins in edible tissue on the appropriate BMP's to control the location.		
2. MS	4 Requirements	of Irving and Dallas	and TxDOT′ permits.	d within the boundaries of the Cities is municipal separate storm sewer Compliance with the applicable MS4		
3. Tr Corri	inity River dor	a Corridor Developmen	t Certific	the Trinity River Corridor; therefore cate (CDC) is required. The ordinate and obtain the CDC.		
4. Floodplains  Hydraulic design to be in accordance with TxDOT and FHWA desi policy procedures. The proposed improvements would permit the conveyance of the design year flood, inundation of the roadword being acceptable, without causing substantial damage to the highway, stream or other property. The proposed project must increase the base flood elevation to a level that would violed applicable floodplain regulations and ordinances. There is no change in commitment since the 2009 EA.				ed improvements would permit the flood, inundation of the roadway ing substantial damage to the rty. The proposed project must not ion to a level that would violate ons and ordinances. There is no		
	Construction Air  Incorporate measures to control fugitive dust during construction such as covering or treating disturbed areas with dust suppression techniques, sprinkling, covering loaded trucks and other dust abatement controls as appropriate.					
	onstruction sions Reduction	programs to encourage to ensure that the ai minimum federal stand the TERP program to t emissions. Informati	Reduction Plan (TERP) includes incentive e the development of multi-pollutant approaches ir in Texas is both safe to breathe and meets dards. TxDOT encourages Developers to utilize the fullest extent possible to minimize diesel ion about the TERP program can be found at e.us/implementation/air/terp/.			
7. Construction Impacts Developer to make even noise through abateme minimization of night proper maintenance of officials of proposed necessary rerouting of the proper local officially with TXDOT recontrol Devices.  8. Visual  TxDOT has begun discussed.			nt measure time const muffler s road clos f emergend cials. Lo	able effort to minimize construction es such as work-hour controls (i.e., truction at residential areas) and systems. Notify city and local safety sures or detours. Detour timing and by vehicles would be coordinated with ane closures and detours are to and the Manual of Uniform Traffic		
			ussions with local jurisdictions regarding and anticipates that the Developer will adhere equirements.			
			PREPAI	RED FOR INTERIM IMPROVEMENTS		
				TROL-SECTION-JOB NUMBERS (CSJ's) 1-02-077, 0581-02-128, 0581-02-911,		
				4-03-116, 0094-03-976, 0581-02-124, 0094-03-060, 0196-03-137		
			© 2014	Texas Department of Transportation		
	ERAL NOTE:	d (a.a. datal.t		Dallas District Standard		
-	-	d/or deviations from t be reported to the	ENVI	RONMENTAL PERMITS,		
	ineer prior to con struction activit	mmencement of ies, as additional		ES AND COMMITMENTS		
		nce may be required.	550.53	(EPIC) SHEET 2 OF 2		
			FED. RD. DIV. NO.	FEDERAL AID PROJECT NO. HIGHWAY NO. SEE TITLE SHEET		
This	document is released	for informational purposes		IP 12		

SHEET NO.

COUNTY

DALLAS

JOB

077, etc.

DISTRICT

DALLAS

SECTION

02

SI Ma	I. Do not alter Sheet Design or Font style, size or weight - match text attribute
H ar	2. If additional space is needed for a numbered section, fence and adjust se
18 ch	as needed for proportioning and readability but do not relocate from Its
3	3. All areas should be addressed thoroughly and verify the necessary pay iter
M 1,	support actions needed.
an 20	Revised: May 2012  Prepared by L. Pettit of HNTB Corporation on 03/07/2014

I. STORMWATER POLL	LUTION PREVENTION PLAN-CLE	AN WATER ACT SECTION 402
required for proje	Stormwater Discharge Permit or C cts with 1 or more acres disturb t protect for erosion and sedime	ped soil. Projects with any
	neral Permit (CGP) requires stor intent, and notice of terminati ements.	
☐ No Action R	Required 🛛 Required Action	n
Action No.		
accordance with	ter pollution by controlling ero TPDES Permit TXR 150000. SW3P and revise when necessary	
the site, acces 4. When Developer	Engineer. on Site Notice (CSN) with SW3P is sible to the public and TCEQ, Epproject specific locations (PSL' or more, submit NOI to TCEQ and	PA or other inspectors. (s) increase disturbed soil
ACT SECTIONS		
water bodies, riv allowed in any st	uired for filling, dredging, exc vers, creeks, streams, wetlands tream channel below the ordinary ry stream crossings or drill pad	or wet areas. No equipment is High Water Mark except on
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Individual 404	Permit Required	
Other Nationwi	de Permit Required: NWP#	_
	List Waters of the US Permit apnagement Practices planned to co	
Permit Waters o	f the US	Approx location ML STA
NWP 14 Site 3	Tributary to Grapevine Creek	SH 114 STA 599+00
NWP 14 Site 8	South Fork Creek	SH 114 STA 775+00 TO 781+00
NWP 14 Site 9	Tributary to Hackberry Creek	SH 114 STA 839+50
NWP 14 Site 10	Cottonwood Branch	SH 114 STA 860+50 TO 862+00
to be performed in	the ordinary high water marks of n the waters of the US requiring nd on the Bridge Layouts (or as	the use of a nationwide
potential impacts jurisdictional fe methodologies or	occur to the proposed project, would be necessary. If impacts atures are identified due to the activities, the Developer would ropriate Section 404 permits.	s to potentially Developer's
REFER TO EPIC SH FOR SECTION II - FOR BEST MANAGEM		

# III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

X	No Action	Required		Required	Acti

Action No.

2.

## IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

Required Action No Action Required

Action No.

Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large reas of disturbed ground would be left bare for a considerable time. Seeding and replanting with TxDOT approved specifications that is in compliance with Executive shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES. CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT.

☐ No Action Required

Required Action

Action No.

ACTION NO.

1. The Developer shall comply with all state and federal laws and regulations as related to state and federal listed threatened and endangered species. Prior to construction, the Developer shall review the most current state and federal threatened and endangered species lists to determine if changes to the lists have occurred since the applicable NEPA Approvals. If changes to the lists have occurred, the Developer shall reassess the potential project impacts to the listed species and/or their habitat. The Developer shall take all appropriate actions to comply with applicable state and federal regulations. If it is determined that adverse effects to listed species will occur, the Developer shall work with TxDOT to develop mitigation approaches. The Developer shall prepare any materials no The Developer shall prepare any materials needed for consultation with regulatory agencies, at TxDOT's DT will conduct coordination or consultation with the direction. TxDOT will conduct coordination or consultation with the applicable state and federal agencies for the project. The Developer shall implement the required actions established from regulatory agency coordination/consultation that are necessary to satisfy  $\mathsf{TxDOT}'s\ \mathsf{mitigation}$  obligation.

Between October 1 and February 15, remove all old migratory bird nests from any structures that would be affected by the proposed project, and complete many bridge work and/or vegetation clearing. Between February 15 and October 1. the Developer would be prepared to prevent migratory birds from building nests. In the event that migratory birds are encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs and/or young would be avoided. If species are present, work should cease at that location and TxDOT personnel should be contacted. If any active nests are found, the local USFWS biologist should be contacted by TxDOT to determine an appropriate plan of action.

> REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN FOR SECTION V - CONTINUATION FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

		LIST	OF	ABBREV	IATIONS
Æ:	Best Management Practice			STA:	Stations
OC:	Corridor Development Certificate	<del>)</del>		PCC:	Spill Pre
3₽:	Construction General Permit			SW3P:	Storm W
SN:	Construction Site Notice			PCN:	Pre-Con
SHS:	Texas Department of State Health	i Serv	ices	PSL:	Project
PA:	Environmental Protection Agency			TCEQ:	Texas Co
WA:	Federal Highway Administration			TEDD:	Toyac Er

Memorandum of Agreement
Memorandum of Understanding

FHWA: Federal Highway Admini M.: Mainlanes MOA: Memorandum of Agreemen MOU: Memorandum of Understa MS4: Municipal Separate Sto NEPA: National Environmental NOT: Notice of Termination NMP: Aktionwide Permit NOT: Notice of Intent Municipal Separate Stormwater Sewer Syst National Environmental Policy Act

PCC: Spill Prevention Control and Countermeasure Storm Water Pollution Prevention Plan
Pre-Construction Notification PSL: TCEQ: Project Specific Location TCEQ: Texas Commission on Environmental Quality
TERP: Texas Emissions Reduction Plan
TPDES: Texas Pollutant Discharge Elimination System Texas Parks and Wildlife Department Total Suspended Solids TSS: Total Suspended Solids
TxDOT: Texas Department of Transportation TRUE: Threatened and Endangered Species
USACE: U.S. Army Corp of Engineers
USFWS: U.S. Fish and Wildlife Service

#### VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, accordance with safe work practices, and contact the District Spill Coordinator Mately. The Developer shall be responsible for the proper containment and cleanup all product spills.

Contact the Engineer and Developer's Environmental Compliance Manager if any of the following are detected:

Dead or distressed vegetation (not identified as normal)

Trash piles, drums, canisters, barrels, etc.

Undesirable smells or odors

\* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

X Yes ☐ No

If "No", then no further action is required.

If "Yes", then the Developer is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

If "Yes", then the Developer must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then the Developer is still required to notifiy DSHS 15 working days prior to any scheduled demolition.

In either case, the Developer is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Developer and the asbestos consultant.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

Required Action ■ No Action Required

Action No.

1. The Developer shall comply with the recommendations of the limited Phase 1 environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per the Contract Documents. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. all construction materials used for this project would be removed as soon as the work schedules permit.

## VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

REFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN FOR SECTION VII - CONTINUATION FOR OTHER ENVIRONMENTAL ISSUES

#### GENERAL NOTE:

Any change orders and/or deviations from the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearance may be required.

CONTROL - SECTION - JOB NUMBERS (CS.1's) 0353-04-056, 0353-04-907, 0353-06-025, 0353-06-905 0353-06-054, 0353-06-906, 0581-02-128, and 0581-02-911 (former 0581-02-121)

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# ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS (EPIC)

This document is released for informational purposes and is subject to change based on comments from approving agencies and public input, it is not to be used for construction purposes. LAST REVISION: MAY 20

	DIV. NO.	FE	NO.	
5	6	SE	SH 114	
	STATE	STATE DISTRICT COUNTY		эп 11 <del>4</del>
	TEXAS	DALLAS	DALLAS	SHEET
	CONTROL	SECTION	JOB	NO.
12	0353	04	056, etc.	

Notes To Designer:

1. Do not atter Sheet Design or Font style, size or weight - match text attributes.

2. If additional space is needed for a numbered section, fence and adjust sections up or down as needed for proportioning and readability but do not relocate from its relative position.

3. All areas should be addressed thoroughly and verify the necessary pay items are set up to

6	I. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404(CONTINUATION FROM EPIC SHEET 1 OF 2)		V. FEDERAL LISTED, PROPOSED THREAT CRITICAL HABITAT, STATE LISTED AND MIGRATORY BIRDS TREATY ACT.	VII. OTHER ENVIRONMENTAL ISSUES (CONTINUATION FROM EPIC SHEET) (includes regional issues such as Edwa			
11.d t				(CONTINUATION FROM EPIC SHEEET	1 OF 2)	(includes region	
tandc use.	Post Management Practi	ces for applicable Sect	ion 401 Conoral			Action No.	equired M ke
175 51	Conditions:	ces for applicable sect	TOTT 401 General	Species Potentially within Project Area w/ Description	Habitat Description	1. Water Quality	Runoff from this proj
I xD01 assumes no responsibility for the conversion of this standard to formats or for incorrect results or dange resulting from its use.	Erosion  ☑ Temporary Vegetation	Sedimentation  ⊠ Silt Fence	Post-Construction TSS  ☐ Vegetative Filter Strips	Henslow's Sparrow: Adults have streaked brown upperparts with a light brown breast with streaks, a white belly and a white throat.  Have a pale stripe on the crown with a dark	areas where lots of bunch grasses		of Segment 0802 of Up threatened/impaired threatened/impaired threatened/impaired threatened in the second of the
nvers esulti	Blankets/Matting	⊠ Rock Berm	Retention/Irrigation Systems	stripe on each side, an olive face and neck, rust-colored wings and short dark forked tail.	occur along with vines and brambles; a key component is bare ground for running/walking.	2. MS4 Requirements	The proposed project
92 e	Mulch	☐ Triangular Filter Dike	Extended Detention Basin	2. Western Burrowing Owl: Distinctive long			of Irving and Dallas
2	Sodding	Sand Bag Berm	Constructed Wetlands	legs, a short tail, and very serious-looking	Open grasslands, especially prairie, plains, and savanna, sometimes in	<b>'</b>	system (MS4) Phase I permit(s) is required
707	☐ Interceptor Swale	Straw Bale Dike Brush Berms	☐ Wet Basin	eyes. Lacks ear tufts. Feathers are sandy brown color above, while breast area is beige	open areas such as vacant lots near human habitation or airports; nests		
120	☐ Diversion Dike ☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Erosion Control Compost	with spotted bars.	and roosts in abandoned burrows.	3. Trinity River Corridor	Portions of the projet a Corridor Developmen
suli	Mulch Filter Berm and Socks		■ Mulch Filter Berm and Socks ■ Compost Filter Berm and Socks	3. Cave Myotis Bat: Relatively larger than	Cave-dwelling; also roosts in old	Corridor	Developer is responsi
707	_			typical Myotis. It can be distinguished by the	buildings and under bridges; roosts in		
7.es/ 7.ec/	Compost Filter Berni and Sock	ss Compost Filter Berm and Soci	_	presence of a conspicuous bare patch on its back. Its color is brown and it has short	clusters of up to thousands of individuals; hibernates during winter,	4. Floodplains	Hydraulic design to be policy procedures.
202		Stone Outlet Sediment Traps	Sand Filter Systems	ears.	opportunistic insectivore.		conveyance of the des
. S		Sediment Basins		4. Plains Spotted Skunk: Small, slender mammal	Catholic; open fields, prairies,		being acceptable, wit
1 dig				with short legs and black tail with prominent,	croplands, fence rows, farmyards,		highway, stream or of increase the base flo
7 dss	Refer also to the SW3P and Best Management Practices.	d Project General Notes for •	project specific	long hairs. Skunk is black overall with narrow, white stripes and spots. Four stripes on the neck, back and sides run from the head to the	forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie.		applicable floodplair change in commitment
00.5				middle of body. There is a white spot on the forehead and in front of each ear.		5. Construction Air	Incorporate measures
Z 0				Toreneda and in front of each ear.		Quality	such as covering or
				5. Mussels (Fawnsfoot, Little Spectaclecase,	Small and large rivers especially on		techniques, sprinklir
				Louisiana pigtoe, Texas heelsplitter, Wabash pigtoe):Adult can range from approximately	sand, mud, rocky mud and sand and gravel, also still to swiftly flowing		abatement controls as
				1-inch to 12-inches in length. Some species	waters.	6. Construction	The Texas Emissions F
				have thin shells and shells vary both on the inside and outside of mussels, depending on		Emissions Reduction	programs to encourage
				species. Color, texture and shape variations in		Fidii	to ensure that the ai
				shells are used to help identify types of mussels.			the TERP program to t
							emissions. Informati
				6. Texas Garter Snake: A small to medium sized terrestrial snake that can grow to about 39-48	Wet or moist microhabitats are conducive to the species occurrence,		http://www.tceq.state
				inches long. Their backs are green to black,	but the snake is not necessarily	7. Construction	Developer to make eve
				with a distictive stripe of red or orange and either side features yellowish stripes.	restricted to them; hibernates	Impacts	noise through abateme
				ermer side reductes yerrowish an ipes.	underground or in or under surface cover; breeds March-August		minimization of night proper maintenance of
							safety officials of p
				If any of the listed species are observed,	cease work in the immediate area,		timing and necessary coordinated with the
				do not disturb species or habitat and conta	act the Engineer immediately. The		detours are to comply
				work may not remove active nests from bridg nesting season of the birds associated with			Uniform Traffic Contr
4				are discovered, cease work in the immediate		8. Visual	TxDOT has begun discu
1/201				Engineer immediately.		Resources/Aesthetics	aesthetic features ar
7/0/5				Special Note: The Migratory Bird Act of 1918 sta	•		to these aesthetic re
03,				capture, collect, possess, buy, sell, trade or t young, feather or egg in part or in whole, without			
٥				accordance within the Act's policies and regulat	tions. The Developer would		
힏				remove all old migratory bird nests from any str done from October 1 to February 15. In addition,			
힏				to prevent migratory birds from building nest(s)	between February 15 to October 1.		
린				In the event that migratory birds are encountere efforts to avoid adverse impacts on protected by			
မ				would be observed.		GENERAL NOTE:	
support actions needed. Revised: May 2012 Prepared by L. Pettit of HNTB Cor						Any change orders an	d/or deviations from
ede F H				BMP: Best Management Practice	ONS	the final design mus	
+ Je				ICDC: Corridor Development Certificate SIA: S	Stations Spill Prevention Control and Countermeasure	Engineer prior to co	
ons ++:				CSN: Construction Site Notice SW3P:	Storm Water Pollution Prevention Plan Pre-Construction Notification	construction activit environmental cleara	
012 Pe 2				EPA: Environmental Protection Agency PSL:	Project Specific Location		· · · · · · · · · · · · · · · · · · ·
7 2 J				ML: Mainlanes TERP:	Texas Commission on Environmental Quality Texas Emissions Reduction Plan Texas Environmental Reduction Plan	This desumest is said.	for Informatical access
<u>ğ<b>≅</b>ã</u>				MOUL: Memorandum of Understanding TPWD:	Texas Pollutant Discharge Elimination System Texas Parks and Wildlife Department	and is subject to change	for informational purposes based on comments from
Z <del>pp</del>				MS4: Municipal Separate Stormwater Sewer System 155: NEPA: National Environmental Policy Act TXDOT:	Total Suspended Solids Texas Department of Transportation	upproving agencies and pused for constr	based on comments from public input. It is not to be ruction purposes.
epd epd epd epd epd epd epd epd epd epd				NOT: Notice of Termination   NAL:   NWP: Nationwide Permit   USACE:	Threatened and Endangered Species U.S. Army Corp of Engineers		
&누				NOI: Notice of Intent USFWS:	U.S. Fish and Wildlife Service		LAST REVISION: MAY 2012

OF 2) ards Aquifer District, etc.) quired Action ject discharges within 5 stream miles upstream pper Trinity River which is listed as for PCB's and dioxins in edible tissue on the st. Select appropriate BMP's to control the rn at this location. is located within the boundaries of the Cities and TxDOT's municipal separate storm sewer permits. Compliance with the applicable MS4 ect cross the Trinity River Corridor; therefore nt Certificate (CDC) is required. The ible to coordinate and obtain the CDC. be in accordance with TxDOT and FHWA design The proposed improvements would permit the sign year flood, inundation of the roadway thout causing substantial damage to the ther property. The proposed project must not ood elevation to a level that would violate n regulations and ordinances. There is no since the 2009 EA. to control fugitive dust during construction treating disturbed areas with dust suppression ng, covering loaded trucks and other dust appropriate. Reduction Plan (TERP) includes incentive e the development of multi-pollutant approaches ir in Texas is both safe to breathe and meets dards. TxDOT encourages Developers to utilize the fullest extent possible to minimize diesel ion about the TERP program can be found at e.us/implementation/air/terp/. ery reasonable effort to minimize construction ent measures such as work-hour controls (i.e., ttime construction at residential areas) and muffler systems. Notify city and local proposed road closures or detours. Detour rerouting of emergency vehicles would be proper local officials. Lane closures and y with TxDOT requirements and the Manual of rol Devices. ussions with local jurisdictions regarding nd anticipates that the Developer will adhere equirements. CONTROL-SECTION-JOB NUMBERS (CSJ's) 0353-04-056, 0353-04-907, 0353-06-025, 0353-06-905 0353-06-054, 0353-06-906, 0581-02-128, and 0581-02-911 (former 0581-02-121) © 2014 Texas Department of Transportation Dallas District Standard ENVIRONMENTAL PERMITS,

ISSUES AND COMMITMENTS (EPIC) SHEET 2 OF

	FED.RD. DIV.NO.	FE	HIGHWAY NO.	
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used for construction purposes.	TEXAS	DALLAS	DALLAS	SHEET
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