TOLL 49 SEGMENT 4
PROGRESS REPORT



JULY 2017
PROGRESS REPORT NO. 13







Board of Directors

Linda Thomas, Chairwoman
Gary Halbrooks, Vice Chairman
James Harris, Secretary
Robert Messer, Treasurer

Keith Honey

Jason Ray

Walta Cooke

Mike Thomas

Barham Fulmer

Dave Spurrier

Robert Moore

Hudson Old

Larry Morse

John Cloutier

Dan Droege

Administration

Chris Miller, Executive Director
Everett M. Owen, Project Director
Colleen Colby, Chief of Staff/Communications Director
Tom Fitzgerald, C.P.A., Accounting
Fagan Consulting, Toll Operations
Locke Lord LLP, Outside General Counsel

General Engineering Consultant (GEC)



Construction Contractor



TABLE OF CONTENTS

1.1	Introduction	1
1.2	Project Description	1
1.3	Development Activities	3
1.3.1 1.3.2	5	
1.3.3		
1.4	Progress Photos	
1.4.1	Earthwork	6
1.4.2	Drainage Structures	7
1.4.3	Bridge & Wall Structures	7
1.4.4	Erosion Control	8
1.4.6	Subbase & Pavement	9
1.5	Progress Narrative	9
1.6	Financial Summary	10
1.6.1	Project Cash Flow Curve – Baseline	11
1.7	Construction Financial Status	12
1.7.1	Summary of Change Orders This Reporting Period	12
1.7.2	Contractor Cash Flow Curve	13
1.8	DBE Status	13
1.9	Comprehensive Environmental Protection Program	14

LIST OF TABLES

Table 1: Right-Of-Way Parcel Status	3
Table 2: Utility Relocation Status	5
Table 3: Construction Progress	10
Table 4: Financial Status Summary	11
LIST OF FIGURES	
Figure 1: Project Location Map	2
Figure 2: Project Cash Flow Curve - Baseline	11
Figure 3: Contractor Cash Flow Curve	13
Figure 3: DBE Status	14
Figure 4: PROJECT AREA south of IH 20	18
Figure 5: PROJECT AREA AT IH 20	19
Figure 6: PROJECT AREA BETWEEN IH 20 AND FM 849	20
Figure 7: PROJECT AREA AT EXISTING FM 849	
Figure 8: PROJECT AREA DAVIS BRANCH TRIBUTARY	22
Figure 9: PROJECT AREA DAVIS BRANCH	23
Figure 10: PROJECT AREA BETWEEN DAVIS BRANCH AND FM 1616	24
Figure 11: PROJECT AREA AT FM 16	25
Figure 12: QUARRIES NORTH OF FM 16	26
Figure 13: PROJECT AREA NORTH OF THE FM 16 QUARRIES	
Figure 14: PROJECT AREA BETWEEN FM 16 AND CR 341	28
Figure 15: PROJECT AREA SOUTH OF CR 431	29
Figure 16: PROJECT AREA AT CR 431	30
Figure 17: PROJECT AREA NORTH OF CR 431	31
Figure 18: PROJECT AREA AT CR 4118	32
Figure 19: PROJECT AREA AT US 69	33

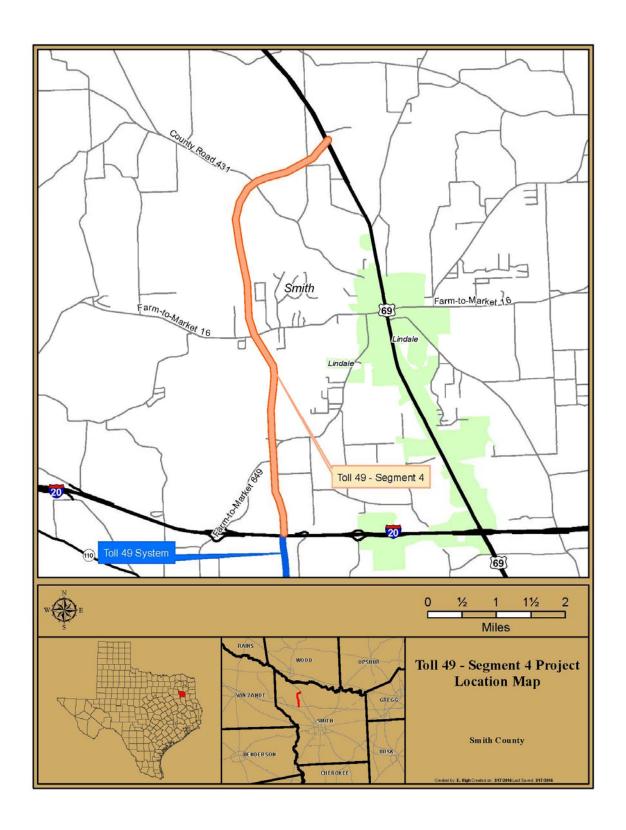
1.1 INTRODUCTION

This report documents and describes the development and construction of the Toll 49 Segment 4 Project during the period from June 1, 2017 through July 1, 2017. This Project is being developed and constructed by the North East Texas Regional Mobility Authority ("the Authority"). The Segment 4 Project is funded by Series 2016A Senior Lien bonds, and funds committed by the Federal Highway Administration (FHWA) and the Texas Department of Transportation (TxDOT).

1.2 PROJECT DESCRIPTION

The Segment 4 Project extends along new alignment from US 69 in the City of Lindale south to IH 20, north of the City of Tyler in Smith County, Texas. The Segment 4 Project connects with Toll 49 Segment 3B, extending Toll 49 by a length of approximately 6.6 miles. The Segment 4 Project consists of an interim two-lane access controlled tollway with grade separations at major cross streets, and toll collection facilities. The interim two-lane facility may be expanded to its ultimate four-lane configuration as traffic demand warrants and funding sources are identified in the future. The Segment 4 Project includes the construction of an at grade intersection at US 69, a diamond interchange including access ramps at FM 16, access ramps south of SH 110, and a three level interchange at IH 20. Continuous access/frontage roads will not be constructed as part of the Segment 4 Project.

FIGURE 1: Project Location Map



1.3 DEVELOPMENT ACTIVITIES

1.3.1 Right-of-Way

To date, the Authority has either acquired, or acquired access rights to, all forty-two project parcels. There is one remaining parcel for which a Possession and Use Agreement (PUA) has been executed and is anticipated to close at a later date.

TABLE 1: RIGHT-OF-WAY PARCEL STATUS

Estimated Acquisition			
Parcel	Acreage	Date	Status
202	3.93	NTP	Closed
203	1.44	Acquired	Closed
204	0.73	NTP + 75 Days	Closed
			PUA executed
205	0.52	NTP	Parcel is accessible to Contractor
206	2.42	NTP	Closed
207	0.40	NTP	Closed
208	7.03	NTP + 75 Days	Closed
			The Authority has taken possession
			Parcel is accessible to Contractor
209	12.47	15-Jul-16	Condemnation proceedings ongoing
210	0.84	15-Jul-16	Closed
			The Authority has taken possession
			Parcel is accessible to Contractor
213	39.13	NTP	Condemnation proceedings ongoing
214	9.95	NTP	Closed
			The Authority has taken possession
			Parcel is accessible to Contractor
215	36.64	NTP	Condemnation proceedings ongoing
			The Authority has taken possession
			Parcel is accessible to Contractor
216	28.31	NTP	Condemnation proceedings ongoing
217	8.39	NTP	Closed
218	5.61	NTP	Closed
219	21.01	NTP	Closed
220	1.35	NTP	Closed
221	5.69	NTP + 30 Days	Closed
222	2.46	NTP + 30 Days	Closed
223	0.13	NTP + 30 Days	Closed
224	0.17	NTP + 30 Days	Closed
225	0.04	NTP + 30 Days	Closed
226	11.63	NTP + 30 Days	Closed

Estimated Acquisition			Estimated Acquisition	
	Parcel	Acreage	Date	Status
	227	3.18	NTP + 60 Days	Closed
	229	22.23	NTP + 60 Days	Closed
	230	3.22	NTP + 60 Days	Closed
	231	4.25	NTP + 60 Days	Closed
	232	14.47	NTP + 60 Days	Closed
	233	1.52	NTP + 60 Days	Closed
	235	0.85	NTP + 60 Days	Closed
	236	9.71	NTP + 60 Days	Closed
	237	0.41	NTP + 60 Days	Closed
				The Authority has taken possession
				Parcel is accessible to Contractor
	238	22.66	NTP + 60 Days	Condemnation proceedings ongoing
				The Authority has taken possession
				Parcel is accessible to Contractor
	239	1.04	NTP + 60 Days	Condemnation proceedings ongoing
				The Authority has taken possession
				Parcel is accessible to Contractor
	240	13.39	NTP + 60 Days	Condemnation proceedings ongoing
	241	0.36	NTP + 60 Days	Closed
	242	11.04	NTP + 60 Days	Closed
	243	9.16	NTP + 60 Days	Closed
	244	19.14	NTP	Closed
	245	5.81	NTP	Closed
	246	0.10	NTP + 30 Days	Closed
				The Authority has taken possession
				Parcel is accessible to Contractor
	247	0.07	NTP + 60 Days	Condemnation proceedings ongoing

1.3.2 Utilities

The Authority has initiated the adjustment of all of the privately-owned utilities impacted by the Segment 4 Project. Relocation design and construction is being performed by the utility owners with 100% reimbursement from the Authority. The Authority has executed relocation agreements with all eleven privately owned utilities impacted by the Segment 4 Project and has issued NTP for the relocation of these facilities.

Due to coordination and construction timeframes, the relocations for some utilities are not anticipated to be complete within the contract's estimated completion dates. It is not anticipated that these relocations will impact the Project critical path.

TABLE 2: UTILITY RELOCATION STATUS

	Estimated Relocation	
Utility Company	Completion Date	Status
AT&T (SBC)	NTP+120	Relocation is complete
CenterPoint Energy	NTP+120	Relocation is complete
City of Lindale	N/A	Webber to relocate as part of construction
Crystal Systems Water	N/A	Webber to relocate as part of construction
East Texas Electric		Utility agreement executed 1-21-2016
Cooperative	1-Jan-17	Relocation NTP issued 6-24-2016
Enbridge	No conflict	No conflict identified, no relocation
		Full utility agreement executed 12-11-2016
Gulf South	NTP+90	NTP issued 6-19-2017
Lindale Rural WSC	N/A	Webber to relocate as part of construction
	Relocation will begin 2	
MHM Pipeline	weeks after clearing	Relocation is complete
		Utility agreement executed 5-4-2016
Oncor Electric Delivery		Relocation NTP issued 6-24-2016
(Distribution)	NTP + 90 to 120 Days	Relocation is ongoing
Oncor Electric Delivery		Utility agreement executed 3-24-2016
(Transmission)	1-Nov-16	Relocation NTP issued 6-24-2016
Peoples Telephone		
Cooperative	NTP + 0 to 60 Days	Relocation is complete
SuddenLink	NTP + 150 Days	Relocation is ongoing
Wood County Electric	NTP +110 Days	Relocation is complete
		Utility agreement executed 6-14-2017
		Relocation NTP issued 6-15-2017
Zayo	NTP +150 Days	Relocation is ongoing

1.3.3 Archeological Survey

During archeological survey undertaken in support of a utility relocation on the project, archeologists encountered a previously unrecorded archeological site within the project right of way. The archeological site is located on the northern end of the project and spans the entire width of the ROW. Following discovery of this site, the Authority enlisted the services of Hicks & Company to perform data recovery and mitigation at the site. Throughout the course of the archeological investigation, the Contractor has been allowed only limited access to the right-of-way near the archeological site. This limited access impeded earthwork activities, resulting in the demobilization of the earthwork contractor for a period of time during the months of December and January.

Access was restored to a northern portion of the site totaling approximately 39 acres in April 2017. Investigations are still underway in the southern portion of the site. With TxDOT and Texas Historical Commission approval in April, The Contractor cleared a 30' construction haul road along the eastern edge of the ROW through the 6 acre southern portion, further expanding access and allowing the transport of materials and construction equipment along the Project ROW.

It is anticipated that the Contractor will submit a time impact analysis in July identifying three to four months of delay associated with impeded earthwork near the archeological site. The NET RMA will review the analysis to determine cost and schedule impacts to the project as well identifying project work that can be accelerated to reduce delays to achieving the substantial completion milestone. It is anticipated that this time impact analysis will include costs impacts, but these impacts will not be fully quantified until all archeological investigations have been completed.

1.4 PROGRESS PHOTOS

1.4.1 Earthwork

Clearing and grubbing activities are complete at all areas necessary within the project limits with the exception of the archeological site, to which the Contractor has limited access. Embankment activities are continue from cross culvert No. 7 south of Stevenson Branch north up to CR 431. Major excavation activities also continue from CR 431 up to CR 4118.



Excavation between CR 431 and CR 4118



Embankment work just south of Stevenson

Branch Relief bridge



Backfill at Cross Culvert No. 16



Embankment work south of CR 431 bridge

1.4.2 Drainage Structures

The Contractor has completed construction of drainage structures major cross culverts No. 5, 7-12 and 14-17 and has begun construction of No. 19. Backfilling is ongoing around culverts No. 15-17. Construction of other various minor culverts, stormdrain, and concrete riprap across the project is ongoing.



Culvert No. 16 construction south of FM 849



Culvert No. 16 construction south of FM 849

1.4.3 Bridge & Wall Structures

The Contractor continues bridge work including installation of drilled shafts, columns, caps, beams, metal decking, abutments and concrete bridge deck at numerous bridge locations across the project. In addition, construction of all Mechanically Stabilized Earth (MSE) walls is complete and the construction of the final cast-in-place (CIP) wall is ongoing.



Installation of concrete traffic barrier at the approach of the FM 849 bridge



Completed beam placement at the CR 431 bridge





Beam placement at the CR 4118 bridge

Building forms for CR 431 bridge abutment

1.4.4 Erosion Control

The Contractor continues environmental control activities such as performing silt excavation and maintaining silt fence, soil retention blankets, and rock filter dams as needed throughout the project to prevent erosion. Topsoil, compost, and seeding is ongoing south of Stevenson Branch.



Rock Filter Dams between CR 4118 and CR 431 near culvert No. 5



Silt fence at FM 16



Topsoil and compost on backslopes between Davis Branch and Davis Branch Tributary



Hay mat installation at CR 431 bridge abutment

1.4.5 Subbase & Pavement

The Contractor continued subbase and pavement activities during the month of June, completing the cement treatment of the subgrade and placement of flexible base, prime coat and asphalt for the future FM 849 pavement. Cement treatment and flex base work has also begun at FM 16 and north of IH 20.



Cement treatment of subgrade at FM 16



Placement of flex base for Toll 49 main lanes north of IH 20



Placement of hot mix asphalt on the western side of realigned FM 849 pavement



Completed asphalt on the western side of realigned FM 849 pavement

1.5 PROGRESS NARRATIVE

Clearing and grubbing activities are complete excluding the area affected by the archeological study. Excavation work is ongoing from CR 4118 down to CR 431. Embankment activities are ongoing from cross culvert No. 7 to approximately a half mile south of Stevenson Branch north to CR 431. Backfill is being placed at various locations including at Culverts No. 15-17. Topsoil, compost, and seeding continues south of Stevenson Branch. The Contractor continues performing silt excavation and maintaining erosion control items including silt fence, rock filter dams, erosion control blankets, and temporary seed as needed to prevent erosion.

Drilled shaft work and construction of bridge columns is ongoing at FM 16 and complete at all other bridge locations on the project. Footing placement is complete. Cap construction is complete at all bridges with the exception of the FM 16 bridge, Long Brake Tributary bridge, and the north side of the IH 20 Main Lane bridge. The Contractor also completed the placement of bridge beams for the CR 4118 and CR 431 bridges in June. Placement of bridge deck panels is ongoing at CR 4118. No bridge deck pours were performed in June, but the Contractor has begun placement of concrete traffic barrier on completed bridge decks.

All MSE wall construction is complete on the project. Work on cast-in-place (CIP) retaining walls is complete with the exception of Retaining Wall No. 4, for which work is ongoing. Installation of major cross Culverts No. 5, 7-12 and 14-17 is complete. Work is ongoing at major cross Culvert No. 19 at Long Brake Tributary.

The Contractor continued subbase activities in the month of June, treating subgrade at FM 16 and north of IH 20, and beginning placement of the prime coat and flexible base materials north of IH 20. Hot mix asphalt was placed for the realigned FM 849 pavement with the exception of the tie ins to existing pavement. No further traffic signal, gantry, or lighting work was completed in the month of June.

Table 3 below reflects construction progress based on the Contractor's schedule of values and approved construction draws.

TABLE 3: CONSTRUCTION PROGRESS

Construction Activity	Percent Complete
Mobilization	90.00%
Traffic Control	56.01%
Earthwork	73.83%
Drainage	39.54%
Sub-base and Base Course	8.46%
Pavement	4.25%
Structures	56.82%
Pavement Markings and Signals	16.30%
Environmental	37.09%
Extra Work Items	34.74%
Change Orders	70.33%

1.6 FINANCIAL SUMMARY

Table 4 shows the overall financial status for the Toll 49 Segment 4 project through July 1, 2017. The original budget established for the Project and the expenditures to date are provided. An estimated cost remaining and an estimate at completion are also provided.

TABLE 4: FINANCIAL STATUS SUMMARY

Project	Original Cost	Expenditures to	Estimated	Estimate at
Description	Estimate (\$)	Date (\$)	Remaining Cost (\$)	Completion (\$)
Toll 49 Segment 4	\$126,220,000	\$52,820,238.97	\$73,399,761.03	\$126,220,000

Note: These costs include Traffic & Revenue studies costs, ROW survey and mapping costs, Final Engineering costs, Utility Relocation costs, Oversight costs, Construction (including GEC costs), and approximately \$23.5 million in remaining contingencies.

1.6.1 Project Cash Flow Curve – Baseline

Figure 2 summarizes the actual project costs to date during this reporting period in comparison to the projected project costs.

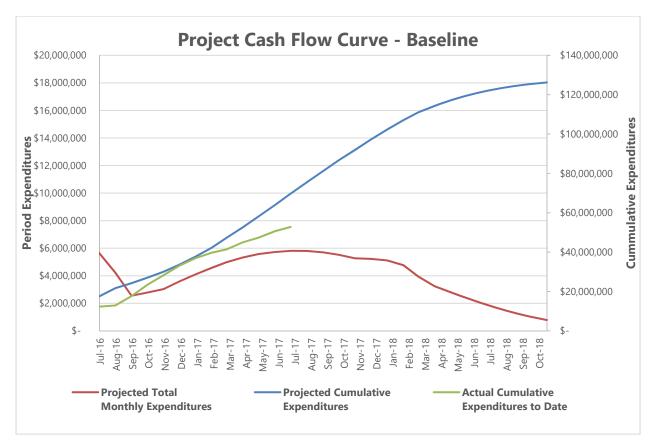


FIGURE 2: PROJECT CASH FLOW CURVE - BASELINE

Note: "Projected Cumulative Expenditures" include projected project expenditures and project contingencies.

1.7 CONSTRUCTION FINANCIAL STATUS

The following summary provides the financial status of the Project.

Original Contractor Amount:	\$68,760,000.00
Authorized Changes (Change Order and/or Amendments):	
Change Order No. 1 ¹	\$0.00
Change Order No. 2	\$26,247.38
Change Order No. 3	\$17,257.93
Change Order No. 4	\$156,926.00
Change Order No. 5	\$100,000.00
Change Order No. 6	\$34,276.66
Change Order No. 7	\$3,721.82
Change Order No. 8	\$4,231.40
Current Authorized Contract Amount:	\$69,102,661.19
Previous total of Contractor Payments:	\$31,923,694.82
Amount Paid this Reporting Period:	\$2,074,459.98
Total Amount Paid To-Date: Retainage withheld:	\$33,998,154.80 \$0.00
Approved Amount for work completed (through Draw No. 11):	\$33,998,154.80
Amount remaining for work to be completed:	\$35,104,506.39
Total Percent of Budget Expended though June 30, 2017:	49.20%

Footnotes:

1. Change Order number 1 did not result in a change in price

1.7.1 Summary of Change Orders This Reporting Period

No Change Orders were executed during this reporting period.

1.7.2 Contractor Cash Flow Curve

Figure 3 summarizes the actual Contractor draws to date during this reporting period in comparison to the projected Contractor draws.

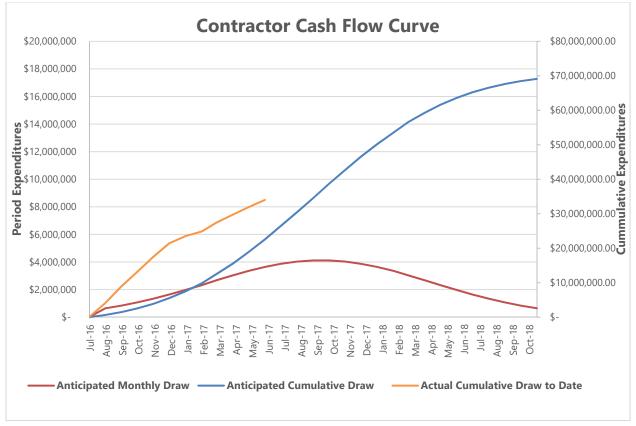


FIGURE 3: CONTRACTOR CASH FLOW CURVE

Note: Contractor Cash Flow Curve includes price and schedule revisions associated with executed Change Orders.

1.8 DBE STATUS

The Contractor is required to meet the Disadvantage Business Enterprise (DBE) goal of 6% for the Segment 4 Project. The Contractor has proposed costs associated with DBE development work in the amount of \$4,125,600.00 which equals 6.00% of the original contract value. This represents approved subcontracts with the following firms: Rambo Contracting INC (culverts, inlets, headwalls, and wing walls), Texas Environmental Management (stormwater pollution prevent plans and erosion control), MCL Contracting (rebar tying), Buyers Barricade (advanced warning signs), and South Texas Painting (painting) along with anticipated subcontracts with Odum Services LP (metal beam guard fence and guard rail) and A Brothers Milling (milling).

To date, the Contractor has made payments in the amount of \$1,826,993.04 to DBE subcontractors, 2.66% of the original contract amount or 44.3% of their commitment amount.

FIGURE 4: DBE STATUS



1.9 COMPREHENSIVE ENVIRONMENTAL PROTECTION PROGRAM

In accordance with the terms of the Environmental Record of Decision (ROD) and contract requirements, the Contractor was required to develop and implement a Comprehensive Environmental Protection Program (CEPP) applicable throughout the duration of construction to establish the approach, requirements and procedures to be employed to protect the environment. The Contractor's CEPP includes the following component parts:

- » Areas of Special Environmental Interest Describes steps taken to prevent impacts to at risk, rare species and their habitat as well as historical resources including:
 - Educating employees to recognize these impacts
 - Identifying the areas where construction related activities are not to take place based on the relevant migratory bird timing windows
 - Keeping water work to a minimum and cleaning any equipment which must enter the water both prior and after to mitigate the spread of Zebra Mussels
 - If endangered/rare species or historical/archaeological/paleontological resources are encountered, ceasing working in the area and notifying the engineer or applicable agency for direction on any mitigation action required
- » Environmental Protection Measures include the following:
 - o Erosion and sediment control measures
 - o Preparation for seasonal shutdown
 - o Protection of wildlife and wildlife habitat
 - o Proper practices for clearing vegetation
 - Appropriate handling and storage of soil
 - o Protection of wetlands, watercourses (streams), and riparian areas

- o Air quality management
- o Proper handling and storage of petroleum, oil, lubricant, and other chemicals
- o Management of waste
- o Constructing, operating, and reclaiming borrow excavations
- o Operating concrete batch plants
- o Well impacts and requirements
- Recycling program
- » Monitoring and Inspection efforts consist of:
 - Self-Regulatory inspection program
 - o Construction Monitoring
 - o Post construction monitoring
- Energy Conservation measures including the following:
 - o Reusing and recycling of construction materials
 - Maximizing the use of local materials to reduce hauling
 - Carpooling of workers to and from the jobsite
 - o Regular maintenance of equipment to ensure proper working order
 - o Reducing energy consumption by turning off equipment and vehicles when not in use
 - Minimizing stops and delays by efficient routing of trucks to and from the jobsite and utilizing off-peak travel times to maximize fuel efficiency
 - Minimizing the need for artificial light by scheduling construction during daytime hours to the extent practicable
 - o Maintenance of traffic control plan that minimizes lengthy detours or delays for motorists.
- The Environmental Protection Training Plan educates non-administrative employees to:
 - Recognize the overall importance of environmental issues
 - o Recognize environmental impacts as they relate to construction
 - Know what actions to take to minimize impacts
- The Communication Plan provides contact information for the Environmental Manager, Superintendent, Project Engineer and Project Manager

Per the CEPP, the Contractor has conducted the following activities:

- Submitted for and posted TCEQ Notice of Intent (NOI) for stormwater discharges. The NOI and large construction site notices are posted on the Contractor's Equal Employment Opportunity board in front of the field office to address accessibility concerns.
- Implemented proper vegetation clearing practices including installing sediment and erosion control measures prior to beginning the clearing and grubbing work.
- » Minimized disturbance to aquatic resources during clearing and grubbing by installing silt fence between the construction site and watercourse to prevent sedimentation and equipment from encroaching on protected areas and installing temporary crossings to allow construction equipment to cross various tributary streams.
- Focused on addressing several erosion control items identified in a recent letter from TCEQ by installing additional rock filter dams, erosion control blankets, mulch, topsoil, and temporary

- seeding on back and side slopes as construction progressed and performing silt excavation downstream of areas where erosion control measures were previously inadequate.
- Reduced the amount of runoff at soil stockpile locations by reducing the grade of the stockpile side slopes.
- Performed weekly inspections to ensure the measures are operating correctly.
- » Implemented the Environmental Protection Training Plan by providing staff access to the TxDOT Environmental Management System training website.
- » Avoided impacts to streams during construction until mitigation was secured.

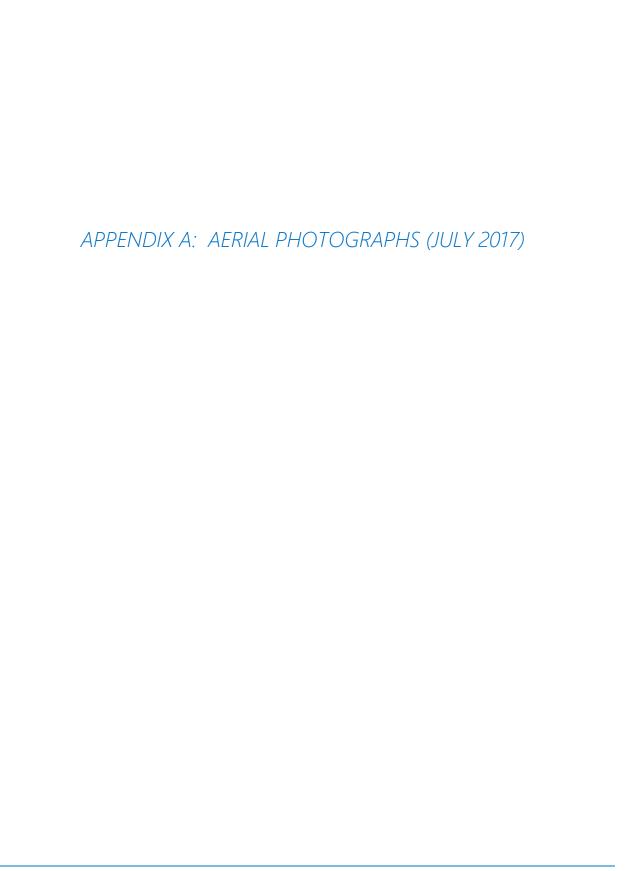




FIGURE 5: PROJECT AREA SOUTH OF IH 20

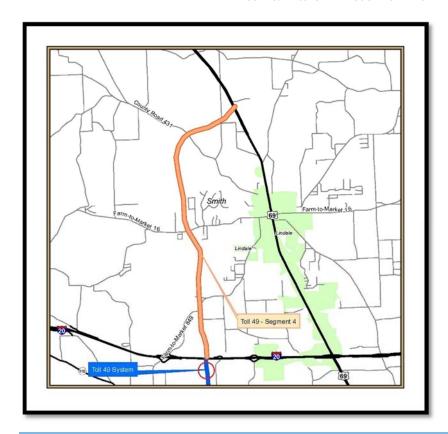




FIGURE 6: PROJECT AREA AT IH 20

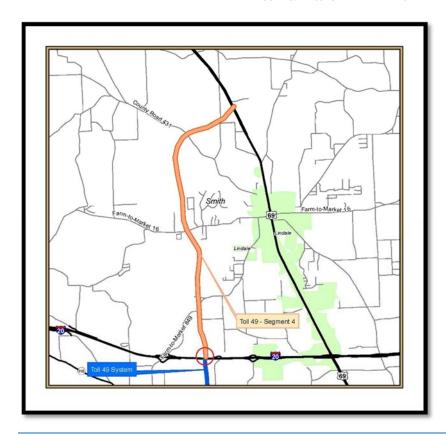




FIGURE 7: PROJECT AREA BETWEEN IH 20 AND FM 849





FIGURE 8: PROJECT AREA AT EXISTING FM 849

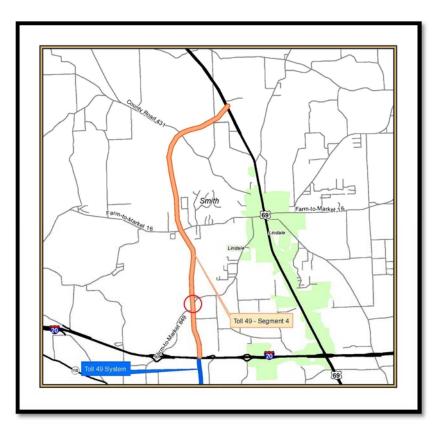




FIGURE 9: PROJECT AREA DAVIS BRANCH TRIBUTARY

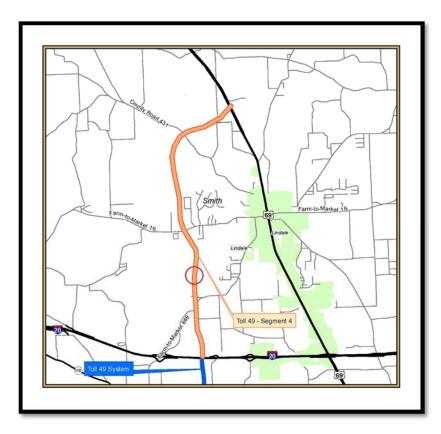


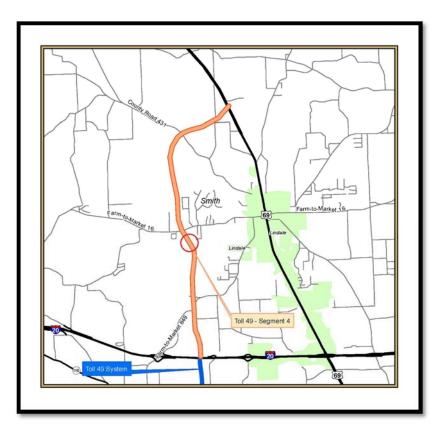


FIGURE 10: PROJECT AREA DAVIS BRANCH





FIGURE 11: PROJECT AREA BETWEEN DAVIS BRANCH AND FM 16



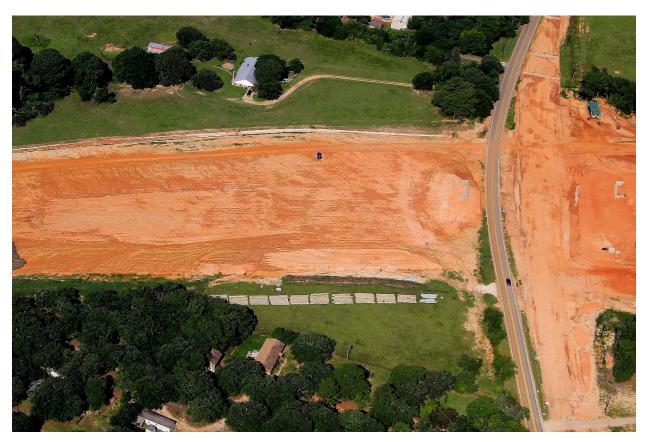


FIGURE 12: PROJECT AREA AT FM 16

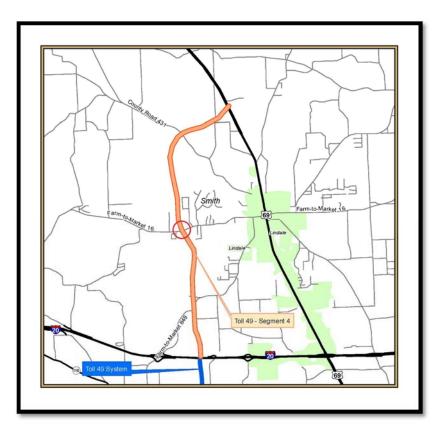




FIGURE 13: QUARRIES NORTH OF FM 16

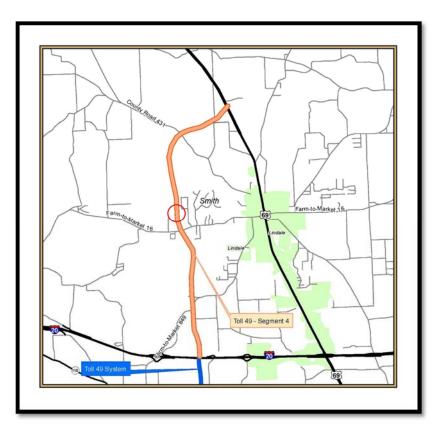




FIGURE 14: PROJECT AREA NORTH OF THE FM 16 QUARRIES





FIGURE 15: PROJECT AREA BETWEEN FM 16 AND CR 341

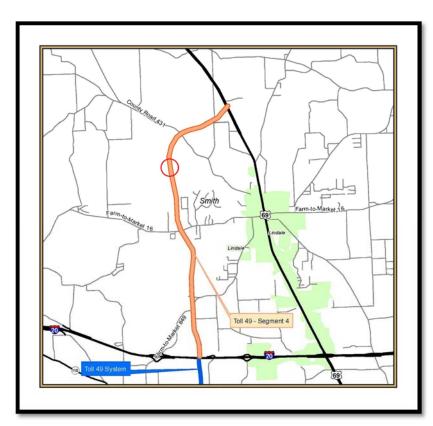




FIGURE 16: PROJECT AREA SOUTH OF CR 431

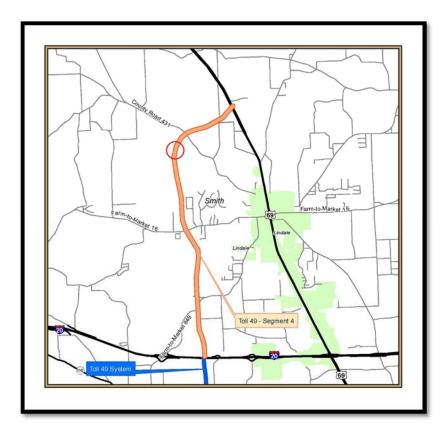




FIGURE 17: PROJECT AREA AT CR 431

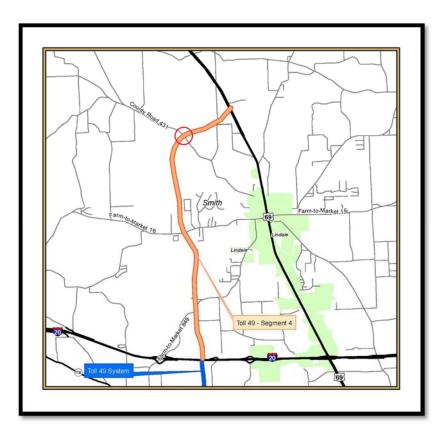




FIGURE 18: PROJECT AREA NORTH OF CR 431





FIGURE 19: PROJECT AREA AT CR 4118





FIGURE 20: PROJECT AREA AT US 69

