Air Quality Technical Report

State Highway (SH) 114

Farm-to-Market Road (FM) 1938 to Dove Road in Tarrant County, Texas

CSJ: 0353-03-100

April 2020

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

TABLE OF CONTENTS PAGE

Project Description....1
Project Consistency with Transportation Plans and Funding....1
Traffic Air Quality Analysis....1
Mobile Source Air Toxics (MSAT)....2
Air Quality Construction Emissions Reduction Strategies....2
References Cited....4

LIST OF APPENDICES

Appendix A Project Location Figure
Appendix B Mobility 2045 Listing
Appendix C STIP Project Listing
Appendix D Typical Section Exhibit
Appendix E NCTCOG CMP Project Implementation Form

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Project Description

The Texas Department of Transportation (TxDOT) is proposing to add continuous frontage roads, including ramp and intersection improvements, along SH 114 from FM 1938 (Davis Boulevard) to Dove Road in Tarrant County, Texas.

The existing facility consists of east and westbound highway mainlanes with three 12-foot lanes, a 10-foot inside shoulder, and a 10-foot outside shoulder in each direction of travel, separated by a concrete traffic barrier. An existing westbound frontage road is located between FM 1938 (David Boulevard) and Kirkwood/Solana Boulevard and consists of one 14-foot shared outside lane and one 12-foot inside lane with 1-foot offsets on each side for curb and gutter. The westbound frontage road is separated from the westbound mainlanes by a grassy median. Access to the SH 114 mainlanes is provided by entrance and exit ramps to cross street intersections.

The proposed project includes adding continuous two-lane frontage roads along SH 114 from FM 1938 (Davis Boulevard) to Dove Road. Additionally, the proposed project includes the reversal of the existing entrance and exit ramps from the "Diamond Configuration" to an "X Configuration". Along with these improvements, U-Turn lanes would be added along SH 114 for both eastbound and westbound directions at Kirkwood Boulevard and on the west side of Dove Road.

Project Consistency with Transportation Plans and Funding

The project is located in the EPA designated serious and marginal nonattainment area for the 2008 and 2015 ozone NAAQS, respectively. Therefore, transportation conformity rules apply. Conformity for older standards is satisfied by conformity to the more stringent 2008 and 2015 ozone NAAQS.

The proposed action is consistent with the North Central Texas Council of Governments' (NCTCOG) financially constrained Mobility 2045 and the 2019-2022 Transportation Improvement Program (TIP), as amended, which were initially found to conform to the TCEQ State Implementation Plan (SIP) by FHWA and FTA on November 21, 2008. Copies of the MTP and TIP pages are included in **Appendix B** and **C**. All projects in the NCTCOG TIP that are proposed for federal or state funds were initiated in a manner consistent with federal guidelines in Section 450, of Title 23 CFR and Section 613.200, Subpart B, of Title 49 CFR.

Traffic Air Quality Analysis

Generally, projects such as the proposed action are considered exempt from a transportation air quality analysis (TAQA) because they are intended to enhance traffic safety and improve traffic flow. The proposed action would not add capacity to an existing facility. Current and future emissions should continue to follow existing trends not being

affected by this project. Due to the nature of this project, further carbon monoxide analysis was not required.

Mobile Source Air Toxics (MSAT)

The purpose of this project is to increase connectivity along this travel corridor by constructing frontage roads on this section of SH 114. This project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special mobile source air toxic (MSAT) concerns. As such, this project will not result in changes in traffic volumes, vehicle mix, basic project location, or any other factor that would cause a meaningful increase in MSAT impacts of the project from that of the no-build alternative.

Moreover, Environmental Protection Agency (EPA) regulations for vehicle engines and fuels will cause overall MSAT emissions to decline significantly over the next several decades. Based on regulations now in effect, an analysis of national trends with EPA's MOVES2014 model forecasts a combined reduction of over 90 percent in the total annual emissions rate for the priority MSAT from 2010 to 2050 while vehicle-miles of travel are projected to increase by over 45 percent[1]. This will both reduce the background level of MSAT as well as the possibility of even minor MSAT emissions from this project.

Air Quality Construction Emissions Reduction Strategies

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

The potential impacts of particulate matter emissions will be minimized by using fugitive dust control measures contained in standard specifications, as appropriate. The Texas Emissions Reduction Plan (TERP) provides financial incentives to reduce emissions from vehicles and equipment. TxDOT encourages construction contractors to use this and other local and federal incentive programs to the fullest extent possible to minimize diesel emissions. Information about the TERP program can be found on TCEQ's TERP website[2].

[1] Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, Federal Highway Administration, October 12, 2016 October 12, 2016 - http://www.fhwa.dot.gov/environment/air_quality/air_toxics/policy_and_guidance/msat/index.cfm

[2] https://www.tceq.texas.gov/airquality/terp

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

References Cited

Texas Department of Transportation (TxDOT). May 2017. Environmental Handbook for Air Quality.

Texas Department of Transportation (TxDOT). August 2019. Guidance for Preparing Air Quality Statements.

APPENDIX A
Project Location Figure

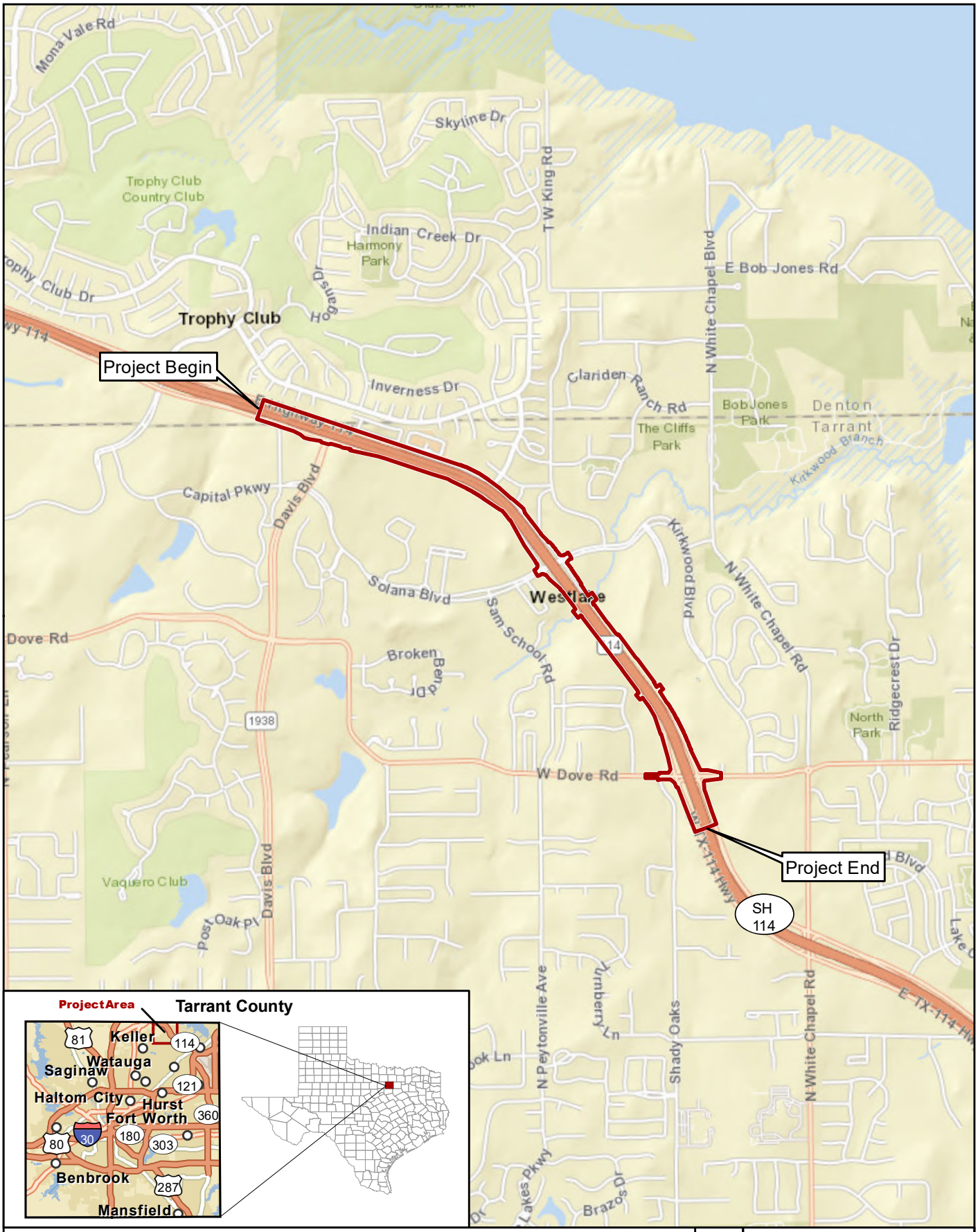

Figure 1

Project Location (Road Base)

SH 114 from FM 1938 to Dove Rd

Project Location

0 0.5 Mile
0 0.75 Kilometer

Prepared for: TxDOT	1 in = 0.5 mile
	Scale: 1:31,680
CSJ: 0353-03-100	Date: 12/12/2018

Basemap Source: ESRI (2018)

G:\Projects\TXDOT\SH114\all_Figure 1_Project Location_Road_20181211.mxd

APPENDIX B
Mobility 2045 Listing

Mobility 2045
Freeway/Tollway Summary Table

FT Corridor	ID	Facility	From	To	2018 (Attainment Year)	2020 (Attainment Year)	2028	2037	2045	Type	YOE Cost
35 - SH 114 (Dallas County)	12.50.3	SH 114	Northwest Hwy (Spur 348)	Rochelle Blvd	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)	8 (Frwy) + 4 (ML/T-C), 4/8 (Frtg-C)		included w/ 12.50.1
35 - SH 114 (Dallas County)	12.50.4	SH 114	Rochelle Blvd	Loop 12	8 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	8 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	8 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	8 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	8 (Frwy) + 4 (ML/T-C), 4/8 (Frtg-C)		included w/ 12.50.1
35 - SH 114 (Dallas County)	12.50.5	SH 114	Loop 12	SH 183	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	6 (Frwy) + 2 (ML/T-C), 6/8 (Frtg-C)	6 (Frwy) + 2 (ML/T-C), 6/8 (Frtg-C)	6 (Frwy) + 4 (ML/T-C), 6/8 (Frtg-C)		included w/ 12.50.1
36 - SH 114 (Denton County)	12.20.3	SH 114	FM 156	IH 35W	4/6 (Frtg-C)	4/6 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)		included w/ 12.30.1
36 - SH 114 (Denton County)	12.30.1	SH 114	IH 35W	East of US 377	4 (Frtg-C)	4 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)		$200,000,000
37 - SH 114 (Tarrant County)	12.30.3	SH 114	Trophy Lake Dr	Kirkwood Blvd	6 (Frwy), 4/6 (Frtg-D)	6 (Frwy), 4/6 (Frtg-D)	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	8 (Frwy), 4/6 (Frtg-C)		included w/ 12.30.1
37 - SH 114 (Tarrant County)	12.30.4	SH 114	Kirkwood Blvd	Kimball Ave	6 (Frwy), 6/8 (Frtg-D)	6 (Frwy), 6/8 (Frtg-D)	6 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	8 (Frwy), 4/8 (Frtg-C)		included w/ 12.30.1
38 - SH 121 (Dallas County)	11.50.1	SH 121	BU 121 (Denton County Line)	Stars and Stripes Way (Tarrant County Line)	8 (Frwy), 4/6 (Frtg-C)	8 (Frwy), 4/6 (Frtg-C)	10 (Frwy), 4/8 (Frtg-C)	10 (Frwy), 4/8 (Frtg-C)	10 (Frwy), 4/8 (Frtg-C)		included w/ 9.10.1
39 - SH 121/NTE Connection	11.80.2	SH 121	Hall-Johnson Rd	Mid Cities Blvd	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	6 (Frwy), 4/6 (Frtg-C)	8 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)		$90,000,000
39 - SH 121/NTE Connection	11.80.3	SH 121**	Mid Cities Blvd	SH 183	4 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	6 (Frwy), 4/8 (Frtg-C)	8 (Frwy) + 2 (ML/T-C), 4/8 (Frtg-C)	Operational Improvements/ Bottleneck Removal	included w/ 11.80.2
40 - SH 161/SH 360 Toll Connector	41.10.1	SH 360/SH 161 Connector	PGBT WE (SH161)	SH 360/Sublett Rd	0	0	0	4 CD (Toll)	4 CD (Toll)		$176,000,000
41 - SH 170	10.20.1	SH 170	IH 35W	Roanoke Rd	4/6 (Frtg-C)	4/6 (Frtg-C)	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)		$446,000,000
41 - SH 170	10.30.1	SH 170	Roanoke Rd	SH 114	4/6 (Frtg-C)	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy), 4/6 (Frtg-C)	4 (Frwy) + 2 (ML/T-C), 4/6 (Frtg-C)		included w/ 10.20.1

(HOV/ExL) - HOV/Tolled Express Lanes
(HOV) - HOV Lanes
(ExL) - Express Lanes
(ML/T) - Tolled Managed Lanes
(-C) - Concurrent Lanes
(-R) - Reversible Lanes

*Interim Pk-Hr Lanes
**Technology Lanes

APPENDIX C
STIP Project Listing

STIP Portal

Logged in as Tim Wood Log Out

Project Management | Reports | Support

Project Management > Area List > STIPs (M-NCTCOG) > Revisions () > TIP Instances (Unassigned) > Highway Projects (Unassigned) > Project Details

Color Key: - Business rule violation - Value changed in current session - Different from DCIS or latest approved copy

Data

Statewide		TIP Revision	None
District	FORT WORTH	County	TARRANT
MPO	NCTCOG	Highway	SH 114
CSJ	0353 - 03 - 100	TIP FY	2020

Phase
- [x] Construction
- [ ] Engineering
  - [ ] Environmental
  - [ ] Engineering
- [x] Right-of-Way
  - [x] Acquisition
  - [x] Utilities
- [ ] Transfer

Total Project Cost Information

Prelim Engineering	$2,000,000
ROW Purchase	$2,500,000
Construction Cost	$36,000,000
Const Engineering	$1,760,400
Contingencies	$406,800
Indirect Costs	$0
Bond Financing	$0
Potential Chg Ord	$0
Total Project Cost	$42,667,200
YOE Cost	
Toll	
TCM	

Revision Date	11/2019	NOX (Kg /D):	0.0000
Project Sponsor	TXDOT-FORT WORTH	VOC (Kg /D):	0.0000
MPO Proj Number	13006	PM10 (Kg /D):	0.0000
MTP Reference	FT1-12.30.3, FT1-12.30.4	PM2.5 (Kg /D):	0.0000
City	VARIOUS	CO (Lbs /D):	

Limits From: FM 1938

Limits To: DOVE RD

Project Description: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

P7 Remarks: ADD ROW AND UTILITY PHASES TO THE TIP/STIP; LOCAL CONTRIBUTION PAID BY CITY OF

ADD ROW AND OTHER PHASES TO THE TIP/STIP; LOCAL CONTRIBUTION PAID BY CITY OF SOUTHLAKE

Project History 10 YEAR PLAN PROJECT

Authorized Funding by Category/Share

Category	Federal	State	Regional	Local	Local Contributions	Total
2M	$26,400,000	$6,600,000	$0	$0	$0	$33,000,000
3LC	$0	$0	$0	$0	$3,000,000	$3,000,000
SW ROW	$2,000,000	$500,000	$0	$0	$0	$2,500,000
Total	$28,400,000	$7,100,000	$0.00	$0.00	$3,000,000	$38,500,000

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2020	SH 114	C,R,ACQ,UTL	VARIOUS	$ 38,500,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 11/2019
MPO PROJ NUM: 13006
FUNDING CAT(S): 2M,3LC,SW ROW

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

REMARKS P7: ADD ROW AND UTILITY PHASES TO THE TIP/STIP; LOCAL CONTRIBUTION PAID BY CITY OF SOUTHLAKE

PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 2,500,000
CONST COST:	$ 36,000,000
CONST ENG:	$ 1,760,400
CONTING:	$ 406,800
INDIRECT:	$ 0
BOND FIN:	$ 0
POT CHG ORD:	$ 0
TOTAL COST:	$ 42,667,200

COST OF APPROVED PHASES $ 38,500,000

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
2M	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 0	$ 33,000,000
3LC	$ 0	$ 0	$ 0	$ 0	$ 3,000,000	$ 3,000,000
SW ROW	$ 2,000,000	$ 500,000	$ 0	$ 0	$ 0	$ 2,500,000
TOTAL	$ 28,400,000	$ 7,100,000	$ 0	$ 0	$ 3,000,000	$ 38,500,000

TIP History

2019-2022 STIP **11/2019 Revision: Approved 01/29/2020**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2020	SH 114	C,R,ACQ,UTL	VARIOUS	$ 38,500,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 11/2019
MPO PROJ NUM: 13006
FUNDING CAT(S): 2M,3LC,SW ROW

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

REMARKS P7: ADD ROW AND UTILITY PHASES TO THE TIP/STIP; LOCAL CONTRIBUTION PAID BY CITY OF SOUTHLAKE

PROJECT HISTORY: 10 YEAR PLAN PROJECT

CONTRIBUTION PAID BY CITY OF SOUTHLAKE

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 2,500,000
CONST COST:	$ 36,000,000
CONST ENG:	$ 1,760,400
CONTING:	$ 406,800
INDIRECT:	$ 0
BOND FIN:	$ 0
POT CHG ORD:	$ 0
TOTAL COST:	$ 42,667,200

COST OF APPROVED PHASES $ 38,500,000

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
2M	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 0	$ 33,000,000
3LC	$ 0	$ 0	$ 0	$ 0	$ 3,000,000	$ 3,000,000
SW	$ 2,000,000	$ 500,000	$ 0	$ 0	$ 0	$ 2,500,000
ROW						
TOTAL	$ 28,400,000	$ 7,100,000	$ 0	$ 0	$ 3,000,000	$ 38,500,000

2019-2022 STIP **02/2019 Revision: Approved 04/04/2019**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2020	SH 114	C	VARIOUS	$ 36,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 02/2019
MPO PROJ NUM: 13006
FUNDING CAT(S): 2M,3LC

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

REMARKS P7: REVISE SCOPE; ADVANCE CONSTRUCTION PHASE TO FY2020; LOCAL CONTRIBUTION PAID BY CITY OF SOUTHLAKE

PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 249,678
CONST COST:	$ 36,000,000
CONST ENG:	$ 1,885,820
CONTING:	$ 435,783
INDIRECT:	$ 0
BOND FIN:	$ 0
POT CHG ORD:	$ 0
TOTAL COST:	$ 40,571,281

COST OF APPROVED PHASES $ 36,000,000

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
2M	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 0	$ 33,000,000
3LC	$ 0	$ 0	$ 0	$ 0	$ 3,000,000	$ 3,000,000
TOTAL	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 3,000,000	$ 36,000,000

2019-2022 STIP **07/2018 Revision: Approved 09/28/2018**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2022	SH 114	C	VARIOUS	$ 33,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 07/2018
MPO PROJ NUM: 13006
FUNDING CAT(S): 2M

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROAD FROM FM 1938 TO SOLANA/KIRKWOOD AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE

REMARKS P7:

PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 0
CONST COST:	$ 33,000,000
CONST ENG:	$ 1,869,381
CONTING:	$ 431,984
INDIRECT:	$ 0
BOND FIN:	$ 0
POT CHG ORD:	$ 0
TOTAL COST:	$ 37,301,365

COST OF APPROVED PHASES $ 33,000,000

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
2M	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 0	$ 33,000,000
TOTAL	$ 26,400,000	$ 6,600,000	$ 0	$ 0	$ 0	$ 33,000,000

Comment History

Time	User	Comment	Related Approval

2019/12/05 17:27:09	**Barbara Maley**		**11/2019: Approved**
2019/03/01 08:39:37	**Barbara Maley**	Approved. Approval based on NCTCOG/RRoderick explanation as provided on March 7, 2019. Upload requested.	**02/2019: Approved**
2018/08/13 15:42:32	**Barbara Maley**		**07/2018: Approved**

STIP Portal

Texas Department of Transportation

Fri, Mar 20, 2020 10:34:18 AM

STIP Portal

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Project Management | Reports | Support

Project Management > Area List > STIPs (M-NCTCOG) > Revisions () > TIP Instances (Unassigned) > Highway Projects (Unassigned) > Project Details

Color Key: - Business rule violation - Value changed in current session - Different from DCIS or latest approved copy

Data

Statewide		TIP Revision	None
District	FORT WORTH	County	TARRANT
MPO	NCTCOG	Highway	SH 114
CSJ	0353 - 03 - 100	TIP FY	2019

Phase
- [ ] Construction
- [x] Engineering
  - [ ] Environmental
  - [x] Engineering
- [ ] Right-of-Way
  - [ ] Acquisition
  - [ ] Utilities
- [ ] Transfer

Total Project Cost Information

Prelim Engineering	$2,000,000	
ROW Purchase	$249,678	
Construction Cost	$36,000,000	
Const Engineering	$1,885,820	
Contingencies	$435,783	
Indirect Costs	$0	
Bond Financing	$0	
Potential Chg Ord	$0	
Total Project Cost	$40,571,281	
YOE Cost		
Toll		
TCM		

Revision Date	02/2019	NOX (Kg /D):	0.0000
Project Sponsor	TXDOT-FORT WORTH	VOC (Kg /D):	0.0000
MPO Proj Number	13006	PM10 (Kg /D):	0.0000
MTP Reference	NRSA1-12.30.3, NRSA1-12.30.4	PM2.5 (Kg /D):	0.0000
City	VARIOUS	CO (Lbs /D):	

Limits From: FM 1938

Limits To: DOVE RD

Project Description: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

P7 Remarks: REVISE SCOPE

REVISE SCOPE

Project History 10 YEAR PLAN PROJECT

Authorized Funding by Category/Share

Category	Federal	State	Regional	Local	Local Contributions	Total
SW PE	$0	$2,000,000	$0	$0	$0	$2,000,000
Total	$0.00	$2,000,000	$0.00	$0.00	$0.00	$2,000,000

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2019	SH 114	E,ENG	VARIOUS	$ 2,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 02/2019
MPO PROJ NUM: 13006
FUNDING CAT(S): SBPE

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

REMARKS P7: REVISE SCOPE
PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 249,678
CONST COST:	$ 36,000,000
CONST ENG:	$ 1,885,820
CONTING:	$ 435,783
INDIRECT:	$ 0
BOND FIN:	$ 0
POT CHG ORD:	$ 0
TOTAL COST:	$ 40,571,281

COST OF APPROVED PHASES $ 2,000,000

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
SW PE	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000
TOTAL	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000

TIP History

2019-2022 STIP **02/2019 Revision: Approved 04/04/2019**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2019	SH 114	E,ENG	VARIOUS	$ 2,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 02/2019
MPO PROJ NUM: 13006
FUNDING CAT(S): SBPE

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROADS FROM FM 1938 TO SOLANA/KIRKWOOD WITH THE ADDITION OF AUX LANES AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE RD WITH THE ADDITION OF AUX LANES AND RAMP MODIFICATIONS

REMARKS P7: REVISE SCOPE
PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000
ROW PURCH:	$ 249,678
CONST COST:	$ 36,000,000
CONST ENG:	$ 1,885,820

COST OF APPROVED PHASES

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
SW PE	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000
TOTAL	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000

CONST ENG:	$ [illegible]	$ 2,000,000
CONTING:	$ 435,783	
INDIRECT:	$ 0	
BOND FIN:	$ 0	
POT CHG ORD:	$ 0	
TOTAL COST:	$ 40,571,281	

2019-2022 STIP **07/2018 Revision: Approved 09/28/2018**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2019	SH 114	E,ENG	VARIOUS	$ 2,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 07/2018
MPO PROJ NUM: 13006
FUNDING CAT(S): SBPE

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROAD FROM FM 1938 TO SOLANA/KIRKWOOD AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE

REMARKS P7:
PROJECT HISTORY: 10 YEAR PLAN PROJECT

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000	COST OF APPROVED PHASES $ 2,000,000
ROW PURCH:	$ 0	
CONST COST:	$ 33,000,000	
CONST ENG:	$ 1,869,381	
CONTING:	$ 431,984	
INDIRECT:	$ 0	
BOND FIN:	$ 0	
POT CHG ORD:	$ 0	
TOTAL COST:	$ 37,301,365	

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
SW PE	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000
TOTAL	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000

2017-2020 STIP **11/2017 Revision: Approved 02/27/2018**

DISTRICT	MPO	COUNTY	CSJ	TIP FY	HWY	PHASE	CITY	YOE COST
FORT WORTH	NCTCOG	TARRANT	0353-03-100	2018	SH 114	E,ENG	VARIOUS	$ 2,000,000

LIMITS FROM: FM 1938
LIMITS TO: DOVE RD
PROJECT SPONSOR: TXDOT-FORT WORTH
REVISION DATE: 11/2017
MPO PROJ NUM: 13006
FUNDING CAT(S): SBPE

PROJECT DESCR: CONSTRUCT 0 TO 2 LANE EB FRONTAGE ROAD FROM FM 1938 TO SOLANA/KIRKWOOD AND CONSTRUCT 0 TO 2 LANE WB AND 0 TO 2 LANE EB FRONTAGE ROADS FROM SOLANA/KIRKWOOD TO DOVE

REMARKS P7: ADVANCE ENGINEERING PHASE AND ADD TO 2017-2020 TIP/STIP; INCREASE FUNDING
PROJECT HISTORY: PART OF REGIONAL 10-YEAR PLAN

TOTAL PROJECT COST INFORMATION

PRELIM ENG:	$ 2,000,000	COST OF APPROVED PHASES $ 2,000,000
ROW PURCH:	$ 0	
CONST COST:	$ 24,010,729	
CONST ENG:	$ 1,512,185	
CONTING:	$ 305,755	
INDIRECT:	$ 0	
BOND FIN:	$ 0	
POT CHG ORD:	$ 0	
TOTAL COST:	$ 27,828,669	

AUTHORIZED FUNDING BY CATEGORY/SHARE

CATEGORY	FEDERAL	STATE	REGIONAL	LOCAL	LC	TOTAL
SW PE	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000
TOTAL	$ 0	$ 2,000,000	$ 0	$ 0	$ 0	$ 2,000,000

Comment History

Time	User	Comment	Related Approval
2019/03/01 08:38:25	**Barbara Maley**	Approved. Approval based on NCTCOG/RRoderick explanation as provided on March 7, 2019. Upload requested.	**02/2019: Approved**
2018/08/13 15:42:32	**Barbara Maley**		**07/2018: Approved**

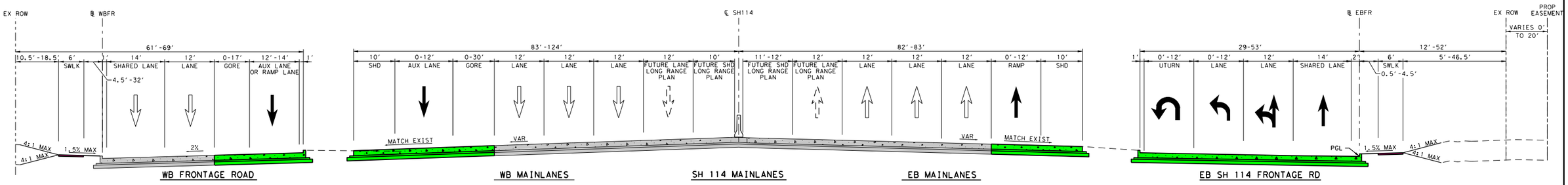
2017/11/15 09:34:26	**Barbara Maley**	**11/2017: Approved**

STIP Portal

Texas Department of Transportation

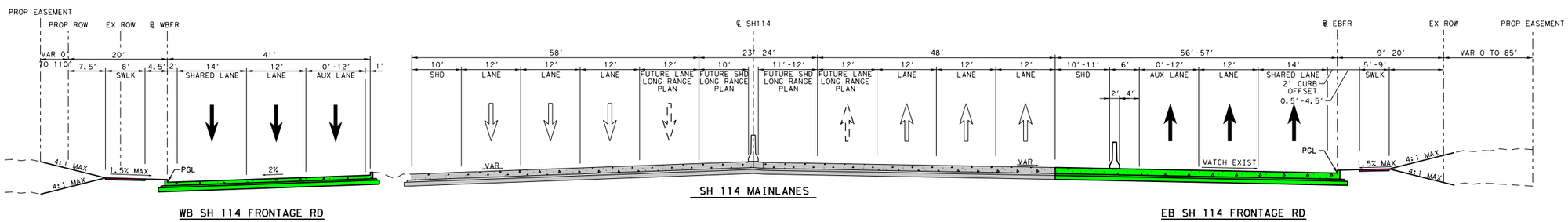
Fri, Mar 20, 2020 10:36:36 AM

APPENDIX D
Typical Section Exhibit



SH 114 PROPOSED TYPICAL SECTION

FROM FM 1938 (DAVIS BLVD) TO KIRKWOOD/SOLANA BLVD



SH 114 PROPOSED TYPICAL SECTION

FROM KIRKWOOD/SOLANA BLVD TO DOVE RD

Kimley»Horn

F-928

Texas Department of Transportation

© 2020

SH 114 TYPICAL SECTIONS

DATE: 3/27/2020 9:01:46 AM
FILE: Typical.dgn

APPENDIX E
NCTCOG CMP Project Implementation Form

NCTCOG CMP
PROJECT IMPLEMENTATION FORM

Submitter Name: Jesus Mares
Agency Name: Cox|McLain Environmental Consulting for TxDOT Fort Worth District
Agency Address: 2501 SW Loop 820 Fort Worth, TX 76133
Email: jesusm@coxmclain.com
Telephone Number: 512-338-2223

Date: 3/3/2020

Please answer the following questions

Project Name State Highway (SH) 114
Project Limits (From) Farm-to-Market Road (FM) 1938
Project Limts (To) Dove Road

2. Does this project add roadway capacity? (IF NOT, THIS FORM IS NOT REQUIRED)

NO

3. Are complementary Travel Demand Management (TDM) or Transportation System Management & Operations (TSM&O) projects within the corridor in the TIP?

If "yes," enter the project name(s), TIP Code(s) and/or CSJ number(s) in table below.

This information can be verified at the following link: Transportation Improvement Program Information System (TIPINS)

*For a list of TDM and TSM&O project types see: Appendix A - TDM and TSM&O Strategies

PLEASE SELECT

Project Name	[Enter Here]	**TIP Code**	[Enter Here]	**CSJ#**	[Enter Here]
Project Name	[Enter Here]	**TIP Code**	[Enter Here]	**CSJ#**	[Enter Here]
Project Name	[Enter Here]	**TIP Code**	[Enter Here]	**CSJ#**	[Enter Here]
Project Name	[Enter Here]	**TIP Code**	[Enter Here]	**CSJ#**	[Enter Here]

3b. Are there any other projects not included in the TIP that may compliment the project?

If "yes," enter the project name(s) and implementing agency in table below.

PLEASE SELECT

Project Name	[Enter Here]	**Implementing Agency**	[Enter Here]
Project Name	[Enter Here]	**Implementing Agency**	[Enter Here]
Project Name	[Enter Here]	**Implementing Agency**	[Enter Here]
Project Name	[Enter Here]	**Implementing Agency**	[Enter Here]

4. Are the project limits within a corridor included in the current Metropolitan Transportation Plan?

This information can be verified in the Mobility Options found here: Appendix E of the MTP (pg. 53 - 97 / pg. 102 - 112)

If "yes," enter the MTP Reference #(s) in table below

PLEASE SELECT

MTP Reference #	[Enter Here]
MTP Reference #	[Enter Here]
MTP Reference #	[Enter Here]
MTP Reference #	[Enter Here]

5. Are the project limits within a corridor included in the current CMP Corridor Analysis?

The complete inventory of corridor fact sheets can be found here: Appendix C - CMP Corridor Fact Sheet

PLEASE SELECT

*If "yes," please proceed to question six.
*If "no," please evaluate corridor to determine if improvements are needed by completing the Fact Sheet Form in Step 2 in the tab below, before proceeding to questio

6. Is the corridor identified as deficient in any category?

PLEASE SELECT

*If "yes," please proceed to questions seven.
*If "no," please proceed to question 11.

7. Identify corridor deficiencies as specified in the current CMP Corridor Analysis or in the CMP Roadway Deficiency Form. (Check all that apply)

- ☐ Alternative Roadway Infrastructure
- ☐ Modal Options
- ☐ System Demand
- ☐ System Reliability

8. Review Appendix A of the current CMP or other available resources to identify possible congestion mitigation strategies to correct the deficiency. (Check all th

Appendix A - TDM and TSM&O Strategies

- ☐ Commuter Transportation Options
- ☐ Freight Management Activities
- ☐ Incentive to Use Alternative Modes
- ☐ In-Vehicle System Efficiency Improvements
- ☐ Roadway Incident and Emergency Management Options
- ☐ Roadway Infrastructure Improvements
- ☐ Sustainable Development Improvements
- ☐ System Management and Operations Improvements
- ☐ Transit System Efficiency Improvements
- ☐ Traveler Information Services
- ☐ Work Zone/Construction Management Operations

9. Specify deficiency-correcting congestion mitigation strategy that will be implemented as part of the project.

[ENTER HERE]

10. If not implementing a congestion mitigation stragegy, please explain reason.

[ENTER HERE]

11. Submit completed form to NCTCOG - CMP Team at: CMP@nctcog.org or by clicking SUBMIT below

*Submit button will auto generate email to NCTCOG with completed excel document attached.
Please finalize step by sending the email.

SUBMIT