

Sherman – Denison Metropolitan Planning Organization (MPO)
TECHNICAL ADVISORY COMMITTEE
AGENDA

Wednesday, September 21, 2016 @ 10:00 am
Texas Department of Transportation
3904 US 75, Sherman, Texas

Please visit our MPO website www.sdmpo.org for background materials under the “Committees/Meetings” link or under “News and Announcements” at our home page.

- I. Call to order
- II. Acknowledgment of Quorum by Chairman

Action Items:

- III. Consider approval of July 20, 2016 meeting notes of the TAC meeting.
- IV. Discussion and Recommendation on Proposed MTP Amendment for the City of Howe

Information/Presentation Items:

- V. US 75 Corridor Study Update
- VI. Announcements
(Informal Announcements, Future Agenda Items, and Next Meeting Date)
 - TAC Next meeting November 16, 2016
 - MPO Policy Board Next meeting October 12, 2016
- VII. Announcements by TAC members
- VIII. Adjournment

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The above notice was posted at the Grayson County Courthouse in a place readily accessible to the public and made available to the Grayson County Clerk on September 14, 2016.

NOTE: The TAC agenda/packet is only distributed digitally, no paper copies will be sent. If you need a printed copy please contact MPO staff.



Karl D Welzenbach

1 TECHNICAL ADVISORY COMMITTEE
2 SHERMAN-DENISON MPO
3 Conference Room
4 Texas Department of Transportation
5 3904 US 75
6 Sherman, TX 75090
7 July 20, 2016 10:00 a.m.
8

9 **Committee Members Present:**

10 Texas Department of Transportation	Aaron Bloom
11 City of Sherman	Clay Barnett
12 Sherman-Denison MPO	Karl Welzenbach
13 City of Denison	Judson Rex
14 City of Howe	Joe Shephard
15 Grayson County	Bill Benton

16
17 **Committee Members Absent:**

18 None

19
20 **Non-Voting Members Absent:**

21 Texas Department of Transportation	Nick Page
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22
23
24 **Guests Present:**

25 Larry Cooper	Mayor, City of Van Alstyne
26 Ricky Mackey	TxDOT Paris District
27 Penny Sansom	TxDOT Paris District
28 Ryan De LaSantos	IEA
29 Larry Redden	IEA
30 Rich Renton	IEA
31 Phillip Lujan	IEA
32 Ben Bryce	Half Associates
33 Kenneth Hatch	CLS
34 Monte Walker	Howe Econ Dev
35 Munson & Munson	William "Ben" Munson
36 McManus & Johnson	Len McManus

37
38 **I. Call to Order -**

39
40 Mr. Welzenbach called the meeting to order at 10:01 a.m.
41

42 **II. Acknowledgement of Quorum by Chairman**

43
44 Mr. Welzenbach declared that a quorum and that Mr. Mackey is on the way but running a little

1 late.

2
3 **III. Review and Approval of Meeting Notes for May 18, 2016 meeting**

4
5 Mr. Barnett made a motion to accept the meeting notes from the May 18th meeting. Mr. Benton
6 seconded the motion. Motion passed.
7

8
9 **IV. Discussion on Proposed 2017-2020 TIP Amendment**

10
11 Mr. Welzenbach referred to the spreadsheet that had been distributed with the Agenda packet.
12 He noted that his original intention was to have the TAC review the list and modify it as needed
13 to have a recommendation for the MPO Policy Board to put out for public review and comment
14 so that we could proceed with a November TIP amendment. However, after discussion with
15 other MPO directors he stated that this effort might be premature. Mr. Welzenbach stated that,
16 as he understands the issue, the projected revenue stream is just that ... a projection for the
17 Unified Transportation Plan. The UTP has not been adopted by the Commission and the
18 Legislature has not met to set a budget. Since he sent out the agenda packet he has been
19 informed that it might be getting a little too far out in front to begin working on a TIP
20 amendment. In fact he has been informed that the amendment might not take place until this
21 time next year.
22

23 Mr. Welzenbach stated that it is still worthwhile to begin this exercise and asked for any
24 suggestions and/or modifications to the list. Mr. Rex suggested that the improvements to FM
25 691 should terminate at Theresa Road instead of Pool Road. Mr. Benton suggested that the SH5
26 project should have more rational termini such as FM 121. There was also clarification on the
27 proposed new FM roadway west of Gunter. Mr. Welzenbach stated that the cost of construction
28 would be shared equally between the MPO and TxDOT.
29

30 There followed some discussion regarding the engineering studies and the funding set aside for
31 those studies.
32

33 **V. US 75 Corridor Study Update**

34
35 Mr. Welzenbach then introduced Ricky Mackey to kick off the next portion of the meeting which
36 is the US 75 Corridor study update. Ricky introduced Larry Redden. Mr. Redden stated that
37 today they, the consulting team, wanted to make sure that they had captured all of the
38 suggestions and issues that had been raised at the previous workshop. He went on to state that
39 they had brought maps that had been marked up with all of the suggestions from the previous
40 meeting and that he would like for each of the communities to step up and review the maps and
41 make sure that all of their issues and suggestions had been accurately reflected.
42

43 Mr. Benton asked whether or not there might come a point when the consulting team makes
44 recommendations to TxDOT regarding specific projects and/or the timing of implementation.
45 Mr. Redden replied that yes that is part of the scope of work as outlined by TxDOT. Mr. Rich
46 Renton said that they plan on bringing back a list of recommendations by September.

1 They also intend to break US 75 up into segments as well as identify those projects that need to
2 be done before any critical widening takes place ... projects such as the railroad bridge and
3 pedestrian bridge in Sherman. Those will have to be adjusted or removed before the actual
4 roadway work would begin.

5
6 Mr. Barnett raised the issue of ramps and accessibility ... not just in Sherman but all along US
7 75. Mr. Redden replied that that is an issue that will be addressed and that they, the consulting
8 team, would be looking again to the locals to provide input.

9
10 The TAC members then proceeded to review the maps of US 75 from the southern communities
11 north.

12
13 The group then came back together again to discuss the idea of a survey to ascertain some of the
14 issues that the general public might have. The additional goal is to ascertain some demographic
15 information as well as mobility issues and perhaps O-D identities.

16
17 Mr. Barnett raised the issue of the specificity of the survey but also how and who these surveys
18 would be distributed to since a significant portion of users of US 75 are from Oklahoma. The
19 response was to utilize the TxDOT websites as well as work with the local governments to place
20 the survey on their websites and/or facebook pages. Mr. Welzenbach wondered how we can
21 reach out to those people that are from out of state and not just the locals. Mr. Barnett suggested
22 that the consulting team look into some way to reach out to those individuals. Mr. Welzenbach
23 also wondered what the intent of the survey was. Mr. Redden responded that they wanted to
24 gather the opinions of the users of US 75 – those people that utilize the corridor on a daily basis.

25
26 Mr. Barnett suggested that perhaps an online survey that, depending on how the first question is
27 answered the survey then directs the individual to the next question. Mr. Welzenbach also
28 suggested that he could provide the consulting team with the results of the Household Travel
29 Survey that TxDOT completed within the last two years. Mr. Barnett also suggested that MPO
30 Staff could provide the consulting team with the survey questions and responses that came from
31 the MTP.

32
33 Mr. Redden stated that perhaps at the end of this process we will have a corridor map that has the
34 projects identified with estimated costs and perhaps a timeline as well. These will initially be
35 rather high level cost estimates since for some of these projects won't begin for some time and
36 therefore the costs will change.

37
38 **VI. Informal Announcements**

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40 The Board will meet August 3rd.

41
42 The next meeting of the TAC will be on Wednesday, September 21.

43
44 **VII. Adjournment** – Mr. Welzenbach adjourned the meeting at 10:31 am.

Sherman-Denison Metropolitan Planning Organization (MPO)
Technical Advisory Committee (TAC)
AGENDA ITEM IV
DISCUSSION ON AMENDMENT TO MTP FOR THE CITY OF HOWE

September 21, 2016

BACKGROUND:

The City of Howe wishes to pursue a roadway project in their community utilizing Prop 1 and/or Prop 7 funds. In order for them to be able to pursue this project it must be included in the MPO's Metropolitan Transportation Plan.

Staff is requesting that the TAC review the attached tables and provide input as to when (what time-frame) would best suit this project. Keep in mind that with the newly identified funding levels we can anticipate that projects will move forward at a rapid pace.

I have included the ranking spreadsheet as completed as well as the completed cost spreadsheet. I'm also including the MTP project list for informational purposes.

ACTION REQUESTED:

Recommend that Policy Board approve the amendment for Public Review and Comment.

ATTACHMENTS:

- *Project Cost Spreadsheet for Howe Project*
- *Project Ranking Spreadsheet for Howe Project*
- *Listing of projects from MTP*

STAFF CONTACT: Karl Welzenbach, 903.771.1451, kwelzenbach@co.grayson.tx.us

SDMPO PROJECT COST ESTIMATE SPREADSHEET

ESTIMATED INFLATION RATE = 4%

Project Rank	Project Sponsor	Project Name	From	To	Project Description	Necessary Bridge Work (Square feet)	Cost per Sq. Ft.	Length of Project (in miles)	Cost Per Lane Mile	Number of Lanes	# of Traffic Signals	Cost per Traffic Signals	Total Cost	Weighted Total	Total Estimated Cost (2020 - 2025)	Total Estimated Cost (2026 - 2030)	Total Estimated Cost (2031 - 2035)	Total Estimated Cost (2036 - 2040)
1	Howe	FM 902 bypass	FM 902 Interchange E	Ponderosa/FM 902 E	Connecting FM 902 W to FM 902 E by way of Ponderosa Rd		\$75	1.5	1099000	2	0	\$250,000	\$3,297,000		\$3,428,880	\$3,566,035	\$3,708,677	\$3,857,024
2							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
3							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
4							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
5							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
6							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
7							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
8							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
9							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0
10							\$75					\$250,000	\$0		\$0	\$0	\$0	\$0

CALCULATION COSTS AND FORMULAS

COST PER SQUARE FOOT OF BRIDGEWORK = \$75

COST PER TRAFFIC SIGNAL = \$250,000

COST PER LANE MILE IS \$1.099 MILLION FOR STATE HIGHWAYS AND \$1.5 MILLION FOR FREEWAYS

NOTE: THE FORMULA TO BE USED IN CALCULATING TOTAL PROJECT COST SHOULD BE (# OF LANES * LENGTH OF PROJECT * COST PER LANE MILE) AND, IF NECESSARY, + (SQR FT OF BRIDGE WORK * \$75 PER SQR FT.) and + (# OF TRAFFIC SIGNALS * \$250,000)

PROJECT RANKING CRITERIA FOR 2040 MTP

					Ranking Factors										
					Safety 33.75%		Maintenance & System Efficiency 23.75%		Congestion 21.25%		Economic Vitality 11.25%				
Project Number	Project Name	From	To	Project Description	Accident Density & Severity	Weighted Accident Density & Severity	Maintenance & System Efficiency	Weighted Maintenance & System Efficiency	Level of Service (V/C ratio)	Weighted Congestion	Estimated Cost	Local Match	ROW Acquisition needed	Weighted Economic Vitality	Weighted Total
1	FM 902 bypass	FM 902 Interchange E	Ponderosa/FM 902 E	Connecting FM 902 W to FM 902 E by way of Ponderosa Rd	0	0.00	0	0.00	0	0	2	0	1	6.75	7
						0.00		0.00		0		0	0	0	0
						0.00		0.00		0		0	0	0	0
						0.00		0.00		0		0	0	0	0
						0.00		0.00		0				0	0
						0.00		0.00		0				0	0
						0.00		0.00		0				0	0

****CONGESTION CURRENTLY IS THROUGH THE HEART OF THE INNER CITY BY WAY OF KOSSE STREET AND YOUNG STREET TRUCK TRAFFIC. NO MODEL AVAILABLE.

Project type scoring

Accident density: Use accident index (0 - 5)
Maintenance & System efficiency: Use PMIS (0 - 5)
LOS: A through F based on model input (0 - 5)
Estimated cost: 2 = < \$5 million 1 = \$5 - \$10 million 0 = > \$10 million
Local Match: 1 = < 10% 0 = none or < 10%
Row: 2 = no ROW acquisition necessary 1 = limited parcels 0 = extensive ROW needed

NOTES:

- The first row, currently filled in, is an EXAMPLE ONLY. Please feel free to substitute your own project and score
1. For Accident Density, Maintenance, and Level of Service a rating of 0 is best and a rating of 5 is worst
 2. A perfect Project would receive a score of 90
 3. The LOS maps and tables are generated by the transportation model in 5-year increments.



TABLE 3 – 2040 MTP EXTENSION OF DALLAS NORTH TOLLWAY & ROADWAY IMPROVEMENTS UNDERTAKEN BY GRAYSON COUNTY AND TXDOT

Year	Project_Number	Funding Agency	Funding Source	Project Name	From_Limit	To_Limit	Description	Cost
FY 2016-2017		Grayson Co/TxDOT	Local /Cat 11	New Road (FM)	FM 121	County Line	New 2-lane Rd plus shoulders	8,132,000
FY_2030	0045-18-034	Grayson Co. RMA	Grayson Co. RMA	Dallas North Tollway Ext.	Grayson County Line	FM 121	6 lanes + access roads	\$221,018,822



TABLE 4 – 2040 MTP PROJECT LIST FUNDED THROUGH PROPOSITION 1

FY 2016-2019

Funding Agency	Funding Source	Project Name	From	To	Project Description	Project Length (in miles)	# of Lanes	Total Cost
MPO /TxDOT	Prop 1 / Cat 11	US 75	Crawford St	FM 120	Ramp Reversals/U-turn			\$4,500,000
MPO /TxDOT	Prop1/ Cat 11	FM 131	at US 82		Reconstruct Interchange	0.90	1	\$3,239,100
MPO	Prop 1	FM 691	SB US 75	Loy Lake Rd	Reconstruct Roadway & add 2 Lanes	0.72	5	\$4,206,400
MPO	Prop 1	FM 131	US 82	North Creek	Widen Existing Roadway	0.60	2	\$1,318,800



FY 2020-2024

Funding Agency	Funding Source	Project Name	From	To	Project Description	Project length (in miles)	# of Lanes	Total Cost
MPO	Prop 1	SH 5	Spence Rd	Baldwin St	Reconstruct and add two lanes	0.6	4	\$3,003,100
MPO	Prop 1	SH289	Meadowbrook	Fountain Creek	Drainage Improvements	0	0	\$150,000
MPO	Prop 1	FM 131	Taylor St.	US 75	Widen Existing Roadway	0.70	2	\$3,950,000
MPO	Prop 1	FM 691	SH 91	Pool Rd	Reconstruct Roadway & add 2 Lanes	0.75	5	\$4,546,100
MPO	Prop 1	FM 131	FM 691	Seymore Bradley	Reconstruct Roadway and Construct Traffic Calming Elements with Improved Signalization	1.1	4	\$5,030,000
MPO	Prop 1	FM 1417	at Sand Creek		Reconstruct Bridge	0	0	\$2,730,000



SHERMAN - DENISON
2040 Metropolitan
Transportation Plan

SHERMAN-DENISON MPO
 METROPOLITAN PLANNING ORGANIZATION
INTERMODAL URBAN TRANSPORTATION PLANNING

FY 2025-2029

Funding Agency	Funding Source	Project Name	From	To	Project Description	Project Length (in miles)	# of Lanes	Total Cost
MPO	Prop 1	FM 120	N York Ave	Juanita Dr	Reconstruct Roadway and Construct Traffic Calming Elements with Improved Signalization	0.77	4	\$4,201,900
MPO	Prop 1	SH 5	Baldwin St.	Hynds St.	Reconstruct and add two lanes	0.9	4	\$4,820,000
MPO	Prop 1	FM 120	Juanita Dr	Maurice	Reconstruct Roadway and Construct Traffic Calming Elements with Improved Signalization	0.391	4	\$2,129,500
MPO	Prop 1	FM 1417	at SH 56		Reconstruct Interchange	0.50	1	\$2,757,500
MPO	Prop 1	FM 1417	Taylor Street	SH 56	Widen Existing Roadway without bridge	1.70	2	\$4,041,500
MPO	Prop 1	SH289	MPO Boundary	FM120	Widen/Straighten	0.75	2	\$1,648,500



FY 2030-2034

Funding Agency	Funding Source	Project Name	From	To	Project Description	Project Length (in miles)	# of Lanes	Total Cost
MPO	Prop 1	FM 131	Seymore Bradley	Davy Ln	Reconstruct Roadway and Construct Traffic Calming Elements with Improved Signalization	0.89	4	\$4,400,970
MPO	Prop 1	FM 691	SH 91	Dripping Springs	Construct New Roadway	2.4	2	\$5,933,900
MPO	Prop 1	FM 691	Plainview	FM 1417	Construct New Roadway	1.5	2	\$3,708,700
MPO	Prop 1	SH 5	Hynds St.	County Line	Reconstruct and add two lanes	1.1	4	\$5,720,600



FY 2035-2040

Funding Agency	Funding Source	Project Name	From	To	Project Description	Project Length (in miles)	# of Lanes	Total Cost
MPO	Prop 1	FM 131	Davy Ln	Crawford Ln	Reconstruct Roadway and Construct Traffic Calming Elements with Improved Signalization	0.63	4	\$3,239,900
MPO	Prop 1	FM 1417	US 82	Dripping Springs	Construct New Roadway	1.9	2	\$4,885,600
MPO	Prop 1	FM 691	SH 289	Plainview	Construct New Roadway	1.6	2	\$4,114,200
MPO	Prop 1	FM 121			Reconstruct and add two lanes		0	\$4,500,000
MPO	Prop 1	SH289	MPO Boundary	FM120	Widen/Straighten	2.00	2	\$4,722,400

Karl,

There are no significant updates to report to the TAC. Please remind the TAC, the on-line survey will close on October 7 and please keep sending the link to their constituents. As of September 9, 2016 there have been 610 respondents. By the time of the meeting, we should have an updated number of respondents. We will provide you that information. Last week, Susan Howard with TxDOT's Office of Public Involvement passed out flyers/cards to various businesses. These cards had the link to the survey which the customers could take. After speaking with Ricky it was agreed that is no need for us to attend the meeting. Let me know if you have any questions.

Thanks

Phillip Lujan

409.656.9343