Labor-Hours Modeling: Transparency and Accountability in Contract Negotiations – Part 2

2023 PEPS Conference

Cliff Hallford, PMP - PEPS Division

Natalie Cox, E.I.T. - Abilene District

December 5 & 6, 2023

Topics

1. Introduction
2. LOE Tool Benefits
3. How Negotiations Would Work
4. How to use LOE Tool
5. Future of LOE Tool
6. Questions & Discussions

LOE Tool Benefits

Fair & Equitable Negotiations

Tool for New & Senior Project Managers

Budget Predictions

Fair and Equitable Negotiations

- Similar projects are used to analyze the data
- Labor-Hours can be reviewed by labor classification and function code
- Tool only looks at hours and not rates
- Additional considerations are taken into account

Tool for New & Senior Project Managers

- Easy to use
- Gives a good starting point for negotiations
- Comparison between the tool and consultant LOE proposal
- Allows Project Manager to perform quick check
- Provides estimate baseline for the District
- Faster and more transparent negotiations
- Consistency in negotiations among PMs, Districts, and Divisions

Budget Predictions

Labor-Hours Tool

The tool can predict ranges for consultant contract cost and predict consultant budget for projects in the STIP and UTP

How would negotiations work?

TxDOT PM and Consultant would scope the project in the field together

Consultant would complete and submit a Scoping / Labor-Hour report

TxDOT PM compares the labor hours per mile and function code by mile to the TxDOT LABOR-HOURS SYSTEM REPORT for similar projects.

If the overall hours are not acceptable for a specific Function Code, then the TxDOT PM would look at each Labor Classification for discrepancy

Scoping the Project

Scoping the Project

CCSJ / CSJ: 012504-033
County: Shackelford
Project Description:
Widen and overlay US 283 from Albany to the Throckmorton County line
Target letting date: 1/2019
Design: Project Justification Statement: US 283 is located in the Barnet Energy Sector. This project was selected as a Tier 1 energy sector project and funded with energy sector funds. This section of US 283 is the only section of US 283 in the Abilene District that has not been widened to at least a 40' roadway section.
Existing conditions: The existing pavement consist of flexbase, sealcoats and an overlay. The existing roadway has predominantly 12-foot lanes and 4-foot shoulders.
Project Scope: The following personnel meet on this project Michael Haithcock, Dan Richardson, Martin Sotelo and Cliff Hallford. The following was determined to be the scope of this project: widen pavement to 40' with flex base, overlay 2" SP D, culvert widening, safety end treatment, new signs, new metal beam guard fence and milled in rumble strips and stripping. Once the PSE is developed and a more detailed estimate is created the SP D may be increased to 3"

Projected Traffic:
ADT or AADT
24 HR T: 26.7%

Current Year (2014): 550
Future (2034): 817

Functional Classification: 5 Rural major collector

Design Standard: 3R

Major Structures: There are 6 bridge class structures on this project. Bridge reports and locations are attached.

Utility Coordination
Utility Involvements: Utilities should be located where structures are widened otherwise utilities should not be an issue

Scoping Report Example

RIGHT-OF-WAY

Right-of-Way (ROW): Existing width: typically, 100 ft.

Required Right-of-Way anticipated: ☒None ☐Yes ☐ Undetermined

Easements anticipated: ☒None ☐Temporary ☐Permanent ☐Utility ☐Other

ENVIRONMENTAL & PERMITS

Anticipated Environmental Document: Categorical Exclusion 22

MS4 Permit Compliance – Is the project located in a MS4? No

Environmental Permits/Variances/Commitments/Coordination anticipated: NA

Environmental Comments and Information: CE documentation

CONSTRUCTION

Preliminary Construction Schedule: 18 Months

Issues potentially affecting constructability/construction schedule: Unknown at this time

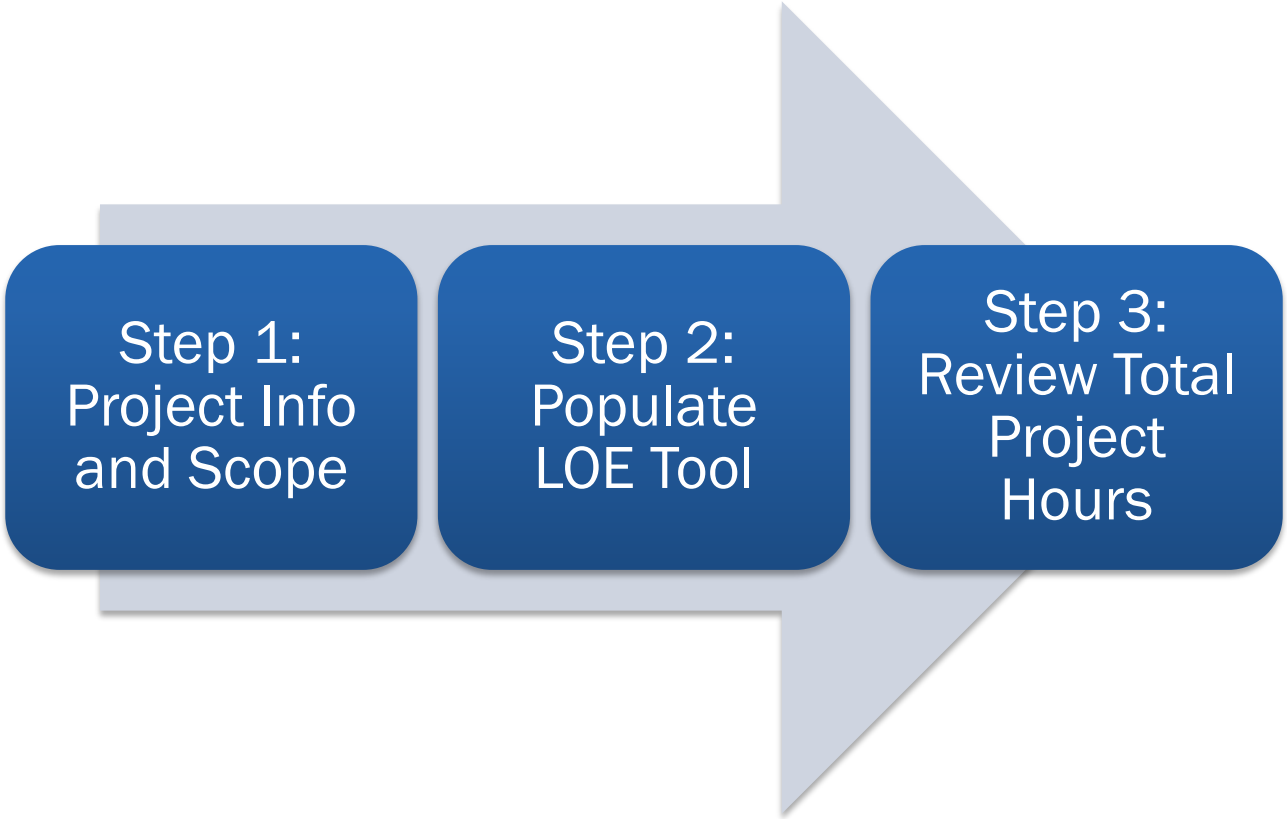
Early Completion Incentives recommended for consideration: None at this time as daytime lane closures are all that should be required.

Special Provisions: Unknown at this time.
Construction Inspection: Abilene Area Office

LIST OF ATTACHMENTS

1. Project Location Map
2. Cost Estimates for Construction
3. Bridge Reports
4. Project Photos

How to use LOE Tool



Step 1: Gather Project Information and Scope of Project

* Project ID:	A00140700	Project Name:	US 87 NORTH OF FM 2230		
Project Type:	Construction	Project Subtype:	Roadway	Project Stage:	PE
* District / Division:	Abilene - 08	County:	Howard	Highway:	US 87
Combined Project Letting Estimate:	$9,300,000.00	* Estimated Let Date:	04/01/2026	Controlling Project ID:	0068-08-070

Project Details

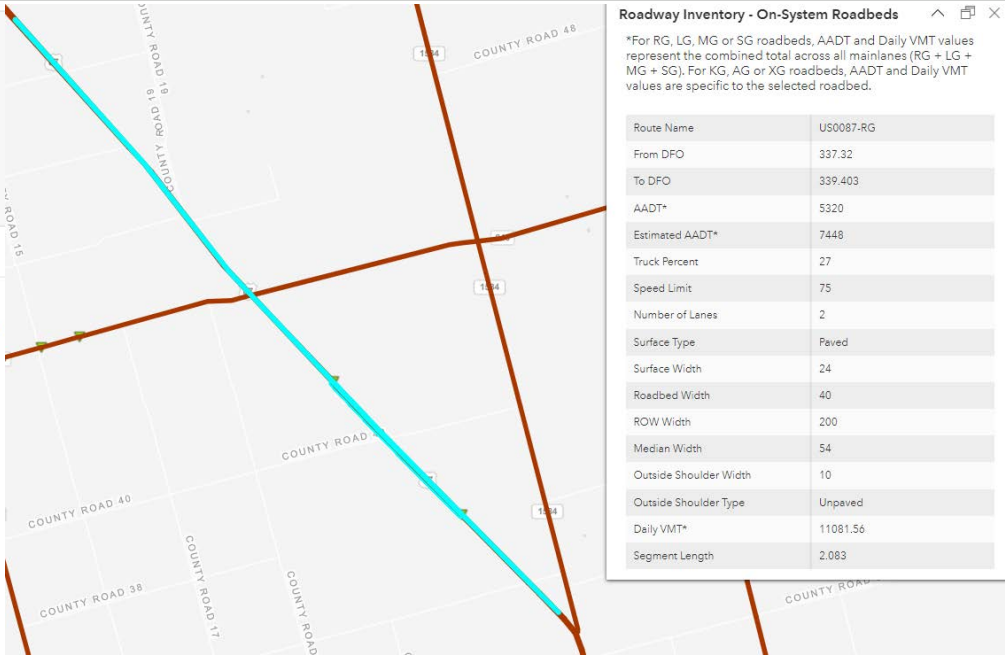
Limits From:	Limits To:
4 MILES N OF FM 846	0.6 MILES N OF FM 2230
Project Classification:	Responsible District:
RER - Rehabilitation of Existing Road	Abilene

Short Description:

Rehabilitate Existing Roadway

Project Description:

REHAB



Roadway Inventory - On-System Roadbeds

*For RG, LG, MG or SG roadbeds, AADT and Daily VMT values represent the combined total across all mainlanes (RG + LG + MG + SG). For KG, AG or XG roadbeds, AADT and Daily VMT values are specific to the selected roadbed.

Route Name	US0087-RG
From DFO	337.32
To DFO	339.403
AADT*	5320
Estimated AADT*	7448
Truck Percent	27
Speed Limit	75
Number of Lanes	2
Surface Type	Paved
Surface Width	24
Roadbed Width	40
ROW Width	200
Median Width	54
Outside Shoulder Width	10
Outside Shoulder Type	Unpaved
Daily VMT*	11081.56
Segment Length	2.083

TxDOTCONNECT **Statewide**

Site Visit & Discussions

Step 2: Populate LOE Tool

CSJ: 0068-08-070 HWY: US 87 DESIGN CRITERIA: 3R DESCRIP: REHAB LETTING EST: $9,300,000

1

Group	Functional Class	Design Criteria	Miles
5	SH	3R	9.088

2

Group 1: FM/RM - PM / 2R
Group 2: US/SH - PM / 2R
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3

AJAR TOTAL PROJECT HOURS PER FN CODE																
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AVERAGE	202.12		53.98		346.07		1775.07		448.67		400.33		974.32		4200.56	
Std Dev	129.59		46.80		172.76		909.25		288.45		265.73		548.01			
RANGE	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
	72.52	331.71	7.18	100.79	173.31	518.83	865.81	2684.32	160.22	737.13	134.59	666.06	426.32	1522.33	1839.96	6561.17

	FN CODE 102	FN CODE 120	FN CODE 145	FN CODE 160	FN CODE 161	FN CODE 162	FN CODE 163
Considerations for each FN CODE:				2-Way Divided Highway. Full depth Rehab no widening, keeping existing profile. Crossovers	2 Bridge class cross culverts. 10+ non bridge culverts but most if not all have SET/MBGF	AE asked to replace cross over signs	Accelerated timeline

4

5

TXDOT TOTAL HOURS	FN CODE 102	FN CODE 120	FN CODE 145	FN CODE 160	FN CODE 161	FN CODE 162	FN CODE 163	TOTAL HOURS
	200.00	50.00	350.00	1200.00	500.00	250.00	1200.00	3750.00

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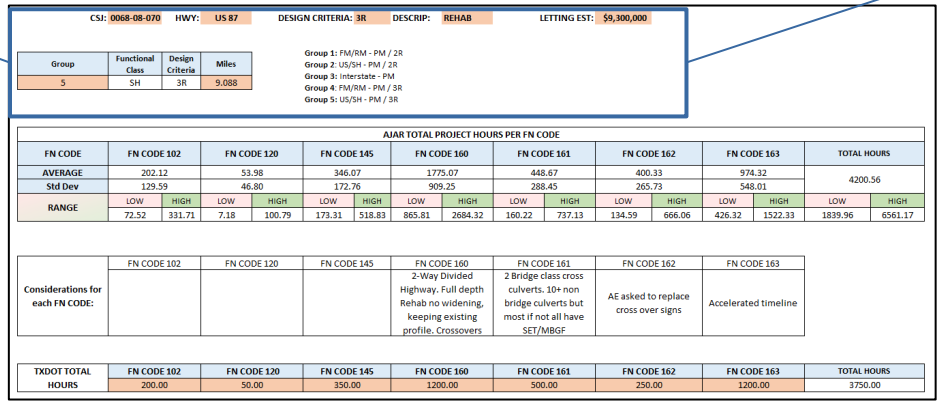

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FC 160 (160) Roadway Design: Roadway Design Controls

FC 160 (160) Roadway Design: Roadway Design Controls **- AJAR**							
JOB TITLE	**PM**	**SE**	**PE**	**EIT**	**ET**	**CADD**	**TOTAL HOURS**
PERCENT	**3%**	**7%**	**13%**	**37%**	**15%**	**25%**	
AVERAGE HOURS / MILE	7.15	14.05	27.22	77.52	30.64	52.49	209.07
JOB TITLE TOTAL HOURS	64.98	127.69	247.38	704.50	278.46	477.03	1900.03

Considerations for FN CODE 160:	2-Way Divided Highway. Full depth Rehab no widening, keeping existing profile. Crossovers
Additional Considerations:	EIT will have the most hours for this function code as he will be doing most of the design and sheets.

FC 160 (160) Roadway Design: Roadway Design Controls **- TXDOT**							
JOB TITLE	**PROJECT MANAGER**	**SENIOR ENGINEER**	**PROJECT ENGINEER**	**ENGR. IN TRAINING**	**ENGR. TECHNICIAN**	**CADD OPERATOR**	**TXDOT TOTAL HOURS**
PERCENT	**3%**	**7%**	**12%**	**40%**	**13%**	**25%**	**1200.00**
TOTAL HOURS	40.00	80.00	140.00	480.00	160.00	300.00	1200.00

Step 2: Populate LOE Tool

CSJ: 0068-08-070 **HWY: US 87** **DESIGN CRITERIA: 3R** **REHAB** **LETTING EST: $ 9,300,000.00**

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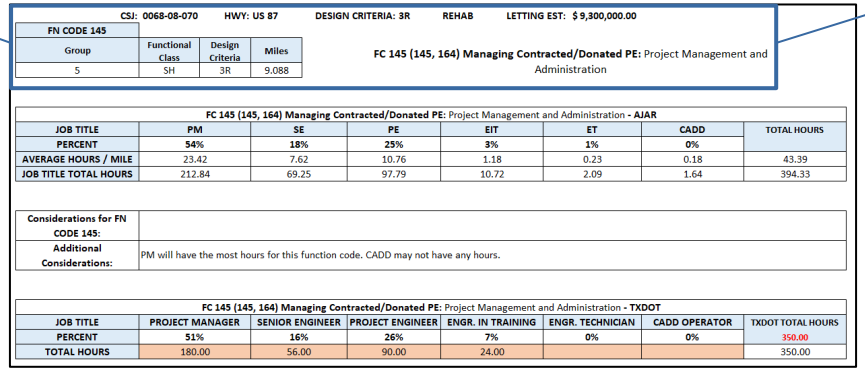

CSJ: 0068-08-070 HWY: US 87 DESIGN CRITERIA: 3R REHAB LETTING EST: $ 9,300,000.00

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FC 145 (145, 164) Managing Contracted/Donated PE: Project Management and Administration

FC 145 (145, 164) Managing Contracted/Donated PE: Project Management and Administration - **AJAR**

JOB TITLE	PM	SE	PE	EIT	ET	CADD	TOTAL HOURS
PERCENT	54%	18%	25%	3%	1%	0%	
AVERAGE HOURS / MILE	23.42	7.62	10.76	1.18	0.23	0.18	43.39
JOB TITLE TOTAL HOURS	212.84	69.25	97.79	10.72	2.09	1.64	394.33

Considerations for FN CODE 145:	
Additional Considerations:	PM will have the most hours for this function code. CADD may not have any hours.

FC 145 (145, 164) Managing Contracted/Donated PE: Project Management and Administration - **TXDOT**

JOB TITLE	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	ENGR. IN TRAINING	ENGR. TECHNICIAN	CADD OPERATOR	TXDOT TOTAL HOURS
PERCENT	51%	16%	26%	7%	0%	0%	350.00
TOTAL HOURS	180.00	56.00	90.00	24.00			350.00

Step 2: Populate LOE Tool

FC 160 (160) Roadway Design: Roadway Design Controls - AJAR							
JOB TITLE	**PM**	**SE**	**PE**	**EIT**	**ET**	**CADD**	**TOTAL HOURS**
PERCENT	**3%**	**7%**	**13%**	**37%**	**15%**	**25%**	
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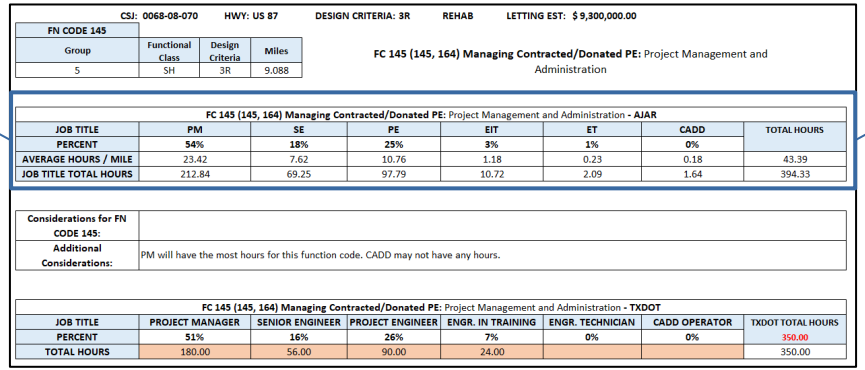

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PERCENT	51%	16%	26%	7%	0%	0%	350.00
TOTAL HOURS	180.00	56.00	90.00	24.00			350.00

Step 2: Populate LOE Tool

Considerations for FN CODE 160:	2-Way Divided Highway. Full depth Rehab no widening, keeping existing profile. Crossovers
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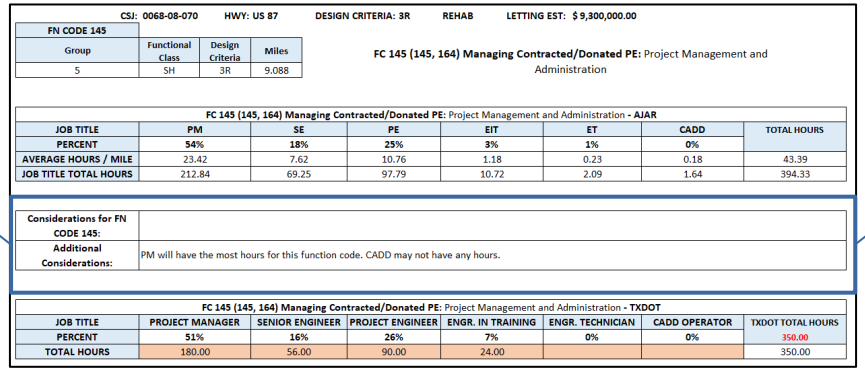

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FC 145 (145, 164) Managing Contracted/Donated PE: Project Management and Administration - **AJAR**

JOB TITLE	PM	SE	PE	EIT	ET	CADD	TOTAL HOURS
PERCENT	54%	18%	25%	3%	1%	0%	
AVERAGE HOURS / MILE	23.42	7.62	10.76	1.18	0.23	0.18	43.39
JOB TITLE TOTAL HOURS	212.84	69.25	97.79	10.72	2.09	1.64	394.33

Considerations for FN CODE 145:	
Additional Considerations:	PM will have the most hours for this function code. CADD may not have any hours.

FC 145 (145, 164) Managing Contracted/Donated PE: Project Management and Administration - **TXDOT**

JOB TITLE	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	ENGR. IN TRAINING	ENGR. TECHNICIAN	CADD OPERATOR	TXDOT TOTAL HOURS
PERCENT	51%	16%	26%	7%	0%	0%	350.00
TOTAL HOURS	180.00	56.00	90.00	24.00			350.00

Step 3: Review Total Project Hours

CSJ: 0068-08-070 HWY: US 87 DESIGN CRITERIA: 3R DESCRIP: REHAB LETTING EST: $9,300,000

TOTAL PROJECT HOURS - TXDOT							
JOB TITLE	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	ENGR. IN TRAINING	ENGR. TECHNICIAN	CADD OPERATOR	TOTAL HOURS:
PERCENTAGE OF TOTAL HOURS	11.15%	9.07%	17.92%	31.52%	14.19%	16.16%	
FUNCTION CODE	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	
FN 102 (110)	34.00	40.00	54.00	62.00	8.00	2.00	**200.00**
FN 120 (120)	12.00	6.00	8.00	16.00	4.00	4.00	**50.00**
FN 145 (145, 164)	180.00	56.00	90.00	24.00	0.00	0.00	**350.00**
FN 160 (160)	40.00	80.00	140.00	480.00	160.00	300.00	**1200.00**
FN 160 (161)	16.00	24.00	120.00	200.00	80.00	60.00	**500.00**
FN 160 (162)	16.00	14.00	40.00	80.00	40.00	60.00	**250.00**
FN 160 (163)	120.00	120.00	220.00	320.00	240.00	180.00	**1200.00**
TOTAL HOURS:	**418.00**	**340.00**	**672.00**	**1182.00**	**532.00**	**606.00**	**3,750.00**

Future of Labor Hours Tool

Data for all types of projects has been entered

Training on how to use labor hour tool

The tool is used on trial basis

Workshop on success and failures

Tweak labor hour tool based off workshop feedback

Full implementation by PEPS

Everyone is receiving a fair contract ☺

Questions and Discussion


HELP
#EndTheStreakTX
End the streak of daily deaths on Texas roadways.
TxDOT.gov (Keyword: #EndTheStreakTX)
#EndTheStreakTX Toolkit

Cliff Hallford, PMP

TXDOT | PEPS

Cliff.Hallford@txdot.gov

325-271-8478

Natalie Cox

TxDOT | Abilene District

Natalie.Cox@txdot.gov

(325) – 676-6960