# Labor-Hours Modeling: Transparency and Accountability in Contract Negotiations – Part 1

2023 PEPS Conference

Michael Haithcock, PE – TP&D Abilene District



December 5-6, 2023

### Key Contributors

- Cliff Hallford PEPS Division
- Brian Chiu & Kevin Clark Transportation Programs Division
- Ben McCulloch, Strategic Planning Division
- ACEC Texas

# Labor-Hours Modeling: Transparency and Accountability in Contract Negotiation

# **2022 PEPS Conference**

Michael Haithcock, P.E. – Abilene District Cliff Hallford, PMP – PEPS Division Lauren D. Garduño, P.E. - Ports to Plains Alliance



Nov 30 & Dec 1, 2022

Safety: Mission

If we could save time in getting to contract Notice To Proceed,

... and ultimately to our finished project, ... we could take a big step, ... in Ending The Streak.

Mission Zero – Safety Is Intentional



## **Safety Never Stops!**

#### Become Administratively Qualified

<u>Texas Department of Transportation</u> > <u>Business</u> > <u>Consultants</u> > <u>Architectural, Engineering and Surveying Consultants</u> > <u>Getting Started</u>

Administrative qualification is a process TxDOT uses to verify that your firm has an indirect cost rate that meets TxDOT requirements.

#### Become Administratively Qualified

You may demonstrate administrative qualification by an audit or by self-certification of its incorporated entity or business segment. TxDOT requires the use of direct labor cost as the allocation base for allocating indirect costs.

- Paycheck Protection Program (PPP) Updated
- <u>Certified Public Accountant (CPA) Audit</u>
- <u>Self-Certification</u>
- Safe Harbor Rate (applies to Texas firms only)
- Overhead Review Process for Administrative Qualification

#### Submit Qualification Documentation

After an audit is complete, you must submit qualification documentation for review.

Submittal and Review Process

#### **Requirements for Processes**

The administrative qualification requirements for the four selection processes – Comprehensive, Federal, Streamlined, and Accelerated – are addressed in the <u>Texas Administrative Code</u>, Title 43, Subchapter C, in Sections 9.34(b), 9.35(b), 9.36(b), and 9.37(b), respectively. The requirements are further explained below:

- <u>Comprehensive, Streamlined and Accelerated Processes</u>
- Federal Process

When it comes to business in Texas, PEPS is a leader in:

1) Innovation

- 2) Fair and Equitable Practices
- 3) Transparency and Trust

Significantly less time to get a contract under NTP

Labor-hours normalized and outliers eliminated

Consultant contract amounts become predictable

PEPS employees optimized and process improved

## Significantly less time to get a contract under NTP

Negotiations without regard to consultant salaries

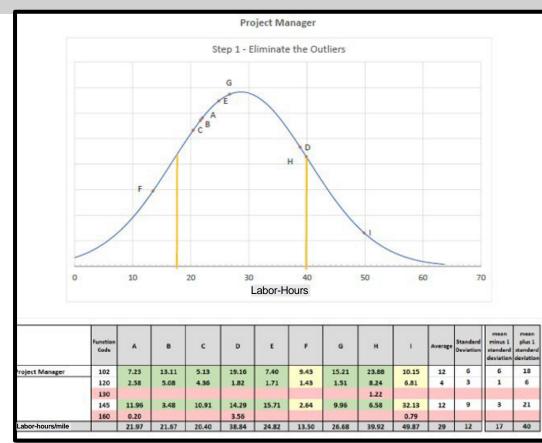
## Consistency among TxDOT project managers

### Negotiations without regard to construction cost

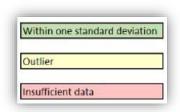
#### **TxDOT Labor-Hours Original Data Set**

REGION:	West Texas
FUNCTIONAL CLASS:	Rural Arterial
TYPE OF WORK:	Environmental & Schematic
DESIGN CRITERIA:	4R New Location & Reconstruction
SCALE:	Over 30 Miles
DISTRICTS:	Odessa, Abilene, & Lubbock

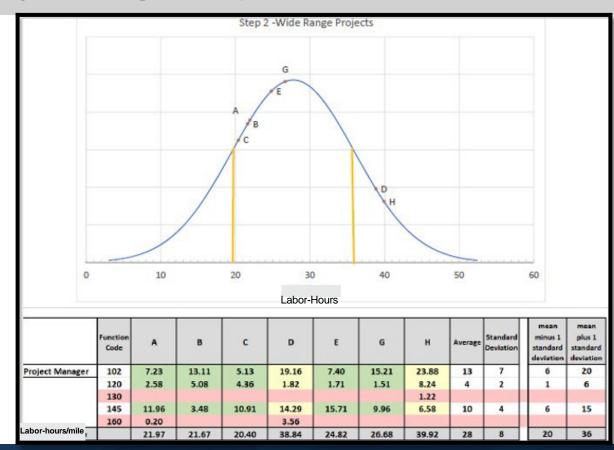
#### Project Manager – Step 1



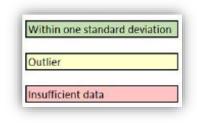




#### **Project Manager – Step 2**



# Eliminate the Outliers



### TxDOT Labor-Hours / Mile for Job Titles

Roadway		
Project Manager	Average 28	Range 20 to 36
Deputy PM	Average 26	Range 21 to 32
Senior Engineer	Average 24	Range 18 to 31
Engineer	Average 72	Range 51 to 93
Engineer-in-Training	Average 94	Range 81 to 106
Design Tech	Average 43	Range 11 to 74

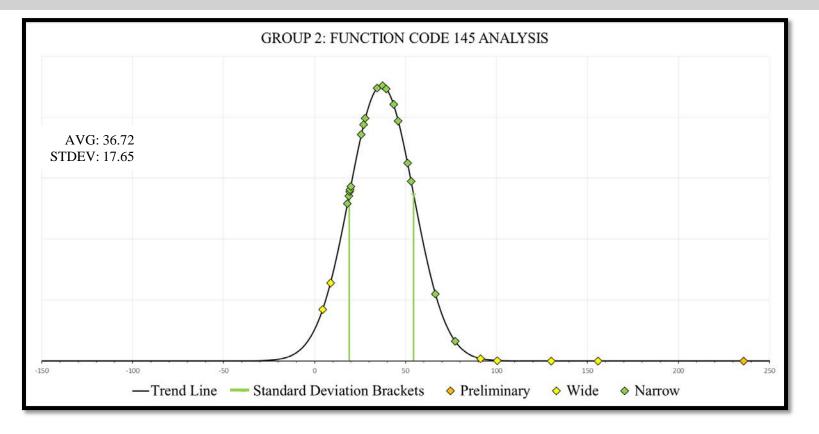
Environmental			Survey and Database	)	
Senior	Average 22	Range 17 to 27	Survey Manager	Average 13	Range 8 to 18
Environmentalist			Survey Technician	Average 26	Range 10 to 41
Environmental	Average 61	Range 40 to 81		Average 20	
Scientist			LIDAR Technician	Average 65	Range 48 to 83
Public Involvement	Average 20	Range 16 to 24	Ortho Specialist	Average 12	Range 10 to 15

# TXDOT CONNECT PS-CAMS

Contract Type - PS&E Project Type - Preventative Maintenance Functional Classification Design Criteria Construction Cost Per Mile

Group 1	FM / RM	PM / 2R
Group 2	SH / US	PM / 2R
Group 3	Interstate	PM
Group 4	FM / RM	ЗR
Group 5	SH / US	ЗR

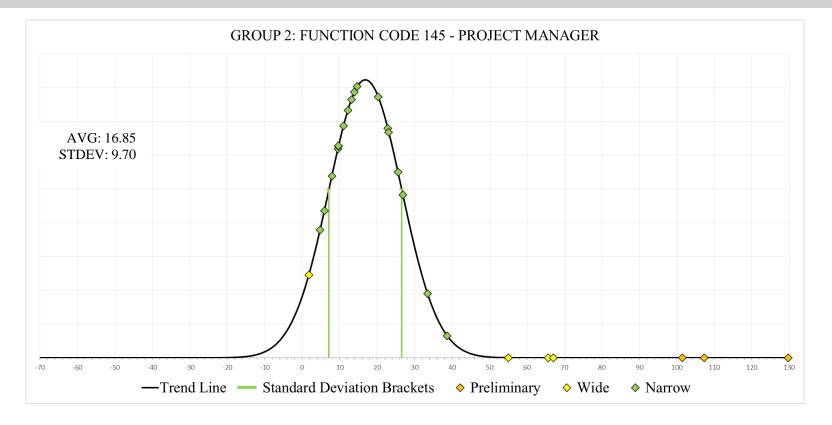
#### Group 2: Function Code 145 Analysis



#### Function Code 145 and 160 Summary (all 5 Groups - 100 Projects)

Group	Functional Class	Design Criteria	Number of Projects		Function Code 145 - Project Management	Function Code 160 - Roadway
1	FM	PM / 2R	25	Average	26.44	124.65
				Std Dev	6.65	47.72
					Narrow	Wide
2	SH	PM / 2R	26	Average	36.72	105.57
				Std Dev	17.65	46.61
					Narrow	Narrow
3	Interstate	PM	24	Average	23.83	85.69
				Std Dev	11.32	41.11
					Narrow	Narrow
4	FM	3R	23	Average	42.65	174.21
				Std Dev	28.35	69.38
					Narrow	Narrow
5	SH	3R	17	Average	49.24	183.84
				Std Dev	25.20	64.07
					Narrow	Narrow

#### **Group 2: Function Code 145 – Labor Classification Analysis**



#### Job Title Summary Function Code 145

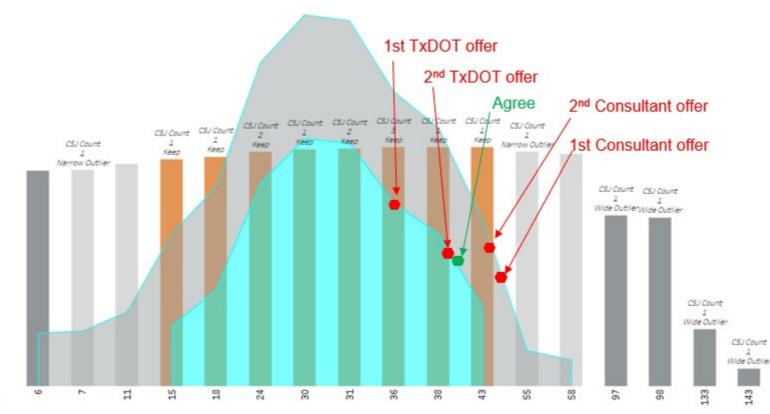
Group	Functional Class	Design Criteria	Project Manager / Mile	Engineer (Project) / Mile	Engineer- In-Training / Mile
1	FM	PM / 2R	20.67	4.61	6.18
2	SH	PM / 2R	16.85	11.60	2.85
3	Interstate	PM	9.79	5.55	7.47
4	FM	3R	16.77	7.67	7.32
5	SH	3R	21.98	9.54	4.63

Fn Code	Design Criteria	Group	Functional Class	Design Criteria
102	PM / 2R	2	SH	PM / 2R
		Miles	4.4	

		1 Project Manager / Mile	2 Engineer (Senior) / Mile	3 Engineer (Design) / Mile	4 Engineer (Project) / Mile	5 Engineer-In- Training / Mile	6 Engineering Tech / Mile	7 CADD / Mile	8 Admin / Mile	9 Support MGR / Mile	Sum 1-9	Total	Range
	Model	23.32	20.24	7.00	28.47	28.03	13.64	9.20	0.35	1.80	132.05	152.85	112.02 - 189.29
1st Submittal	Lauren	54.00	36.00	0.00	36.00	36.00	16.00	16.00	4.00	2.00	200.00	210.00	
1st Submittal	Cliff	28.00	28.00	0.00	28.00	28.00	12.00	12.00	2.00	2.00	140.00	160.00	
2nd Submittal	Lauren	48.00	36.00	0.00	36.00	32.00	16.00	16.00	4.00	2.00	190.00	194.00	
2nd Submittal	Cliff	32.00	34.00	0.00	36.00	32.00	12.00	16.00	8.00	2.00	172.00	172.00	
3rd Submittal	Lauren	48.00	34.00	0.00	32.00	32.00	12.00	8.00	4.00	2.00	172.00	180.00	
3rd Submittal	Cliff	48.00	34.00	0.00	32.00	32.00	12.00	8.00	4.00	2.00	172.00	180.00	



#### **Function Code 102 - Feasibility Studies**



Null

#### Summary

Function Code	1 Project Manager / Mile	2 Engineer (Senior) / Mile	3 Engineer (Design) / Mile	4 Engineer (Project) / Mile	5 Engineer- In-Training / Mile	6 Engineering Tech / Mile	7 CADD / Mile	8 Admin / Mile	9 Support MGR / Mile	Other Job Titles	TOTAL
102	48.00	34.00	0.00	32.00	32.00	12.00	8.00	4.00	2.00	8.00	180.00
120	4.00	4.00	0.00	4.00	2.00	2.00	1.00	1.00	0.00	0.00	18.00
145	90.00	40.00	0.00	30.00	0.00	0.00	0.00	12.00	0.00	8.00	180.00
160	36.00	24.00	0.00	110.00	120.00	110.00	60.00	8.00	0.00	32.00	500.00
161	24.00	18.00	0.00	60.00	100.00	32.00	32.00	2.00	2.00	0.00	270.00
162	16.00	28.00	0.00	40.00	100.00	40.00	60.00	12.00	4.00	0.00	300.00
163	40.00	40.00	0.00	80.00	120.00	60.00	32.00	8.00	8.00	37.00	425.00
Total	258.00	188.00	0.00	356.00	474.00	256.00	193.00	47.00	16.00	85.00	1873.00

Function Code	1 Project Manager / Mile	2 Engineer (Senior) / Mile	3 Engineer (Design) / Mile	4 Engineer (Project) / Mile	5 Engineer- In-Training / Mile	6 Engineering Tech / Mile	7 CADD / Mile	8 Admin / Mile	9 Support MGR / Mile	Other Job Titles	TOTAL
102	48.00	34.00	0.00	32.00	32.00	12.00	8.00	4.00	2.00	8.00	180.00
120	4.00	4.00	0.00	4.00	2.00	2.00	1.00	1.00	0.00	0.00	18.00
145	90.00	40.00	0.00	30.00	0.00	0.00	0.00	12.00	0.00	8.00	180.00
160	36.00	24.00	0.00	110.00	120.00	110.00	60.00	8.00	0.00	32.00	500.00
161	24.00	18.00	0.00	60.00	100.00	32.00	32.00	2.00	2.00	0.00	270.00
162	16.00	28.00	0.00	40.00	100.00	40.00	60.00	12.00	4.00	0.00	300.00
163	40.00	40.00	0.00	80.00	120.00	60.00	32.00	8.00	8.00	37.00	425.00
Total Hours	258.00	188.00	0.00	356.00	474.00	256.00	193.00	47.00	16.00	85.00	1873.00
Contract Cost	\$66,409.20	\$41,939.04	\$-	\$61,089.60	\$48,803.04	\$25,625.60	\$18,767.32	\$4,032.60	\$3,477.76	\$12,155.00	<mark>\$282,299.16</mark>

- ★ John Lamb, Lamb-Star
- ★ Dawn Green, KCI
- ★ Doug Dillon, BGE
- ★ Don Green, RS&H
- ★ Todd Thurber, LJA

- ★ Lee Ann Dixon, Walter P. Moore
- ★ Kelly Kaatz, HDR
- ★ Dave Lubitz, Aguirre & Fields
- ★ John Hamilton, Parkhill
- ★ Travis Isaacson, The Rios Group

#### **ACEC Meeting Notes**

#### **ACEC LOE Labor Hour Tool December Meeting**

**Doug Dillon:** In previous discussions, there was question about using hours in a particular contract and if hours hit a max in contract, TxDOT didn't have the ability to track those hours. So, there is question about these additional hours and how they are tracked. If you are using data from those contracts to assign and generate labor hour efforts for activities and if the majority of contracts use all the hours in the contract, then the concern is that there is additional effort that was required that doesn't show up in data. So, it would understate labor hours required for activity. So, not capturing the true cost.

John T. Hamilton: Benefit in time of supply chain trouble and inflation. Salaries for the consultant and materials for TxDOT. If this expedites the process, then we save tax-payer money. When looking at cost of project, it may have gone up 2 million then consultant fee increases by 55,000, then it's up a million or two in construction cost. Expediting is a benefit for all parties involved.

**Donald Glenn:** When looking at data, the tool is intended to be used statewide. Will we take a look at differences between districts? Even though a project scope may be same, the effort needed may be different. Will we break it down by district to normalize these differences? Level of effort comes down to scope and what's required by one district may vary between the other.

Lee Anne Dixon: One concern is to make sure it works for smaller firms. So, small firms may only have one EIT or one in each category, or even a lot of EIT's and one senior manager. This can be a challenge when looking at it by category. Lee Anne likes that we are trying to come up with accurate hours for projects versus salaries. There is still concern that we run into with districts who are trying to come under a million to avoid a longer review period. Districts are asking to come down x amount of money to shorten review process, this in turn removes a lot of effort on consultant side. Consultants want to see tool help get to end result faster instead of overthinking the process. Want tool to be helpful but not restrictive in that it limits the consultant. Would like it to be one aspect of negation and <u>not the most important</u> aspect when coming to an agreement in scope and fee.

"The LOE Tool will be used for all types of TxDOT Projects"

 We are loading data for low-risk Preventative Maintenance projects, the model will not be complete for six months, then needs reviewing, testing, tweaking, and testing some more – we are very, very early in the process.

"The LOE Tool has already been developed without consultant input and is being sold to us."

Phase 1	Abilene	9 E&S
Phase 2	Abilene, PEPS	100 PSE (Groups 1-5)
<ul> <li>Phase 3</li> </ul>	Abilene, PEPS, BARS, ACEC	200 PSE (Groups 1-5)

#### **TxDOT Labor-Hours Concerns**

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The Labor-Hour data must be correct / accurate for the proposed project.

- In the case of the 9 x \$9M West Texas Environmental and Schematic corridors, we had a near perfect sample to examine.
- Imperative that TxDOT only use historical data from successful contracts on highly similar projects.

The Labor-Hour data must be applied accurately to each project.

- Each project has unique unknowns and risk involved for each job title.
- A contract will often be higher than the average number of labor-hours per mile due to the various complexity of a project.

#### **TxDOT Labor-Hours Concerns**



#### No two projects are the same

- The purpose of this tool is to get TxDOT and consultants closer to a contract that is fair and equitable for both sides.
- The tool does not replace engineering judgement or common sense in negotiations.

# What if we use subconsultants for some services in the contract?

- Labor-hours can be reviewed by the Function Code instead of by the entire Job Title.
- The Prime can add the sub-consultant's hours to the Prime's Job Title for those services or that Function Code can be reviewed separately.

The model has been tweaked and the data is highly accurate

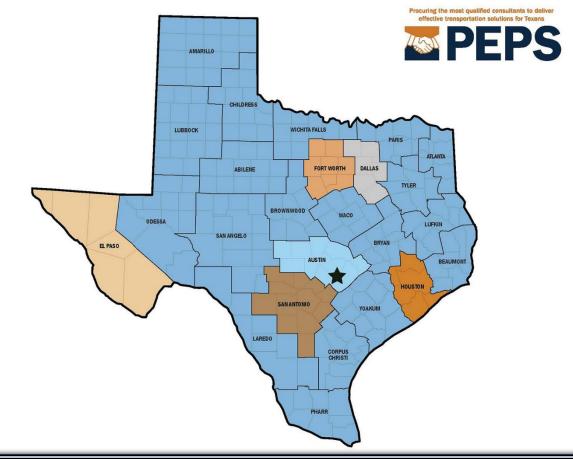
All Contracts beginning in 2024 or 2025 are entered IT has perfected the format of the data and tableaus

TxDOT PMs have been trained on how to use the tool

Consultants are receiving the market rate of Labor Hours

Negotiations are much faster and more efficient Contract information is much more transparent In FY23 with the help of BARS - PEPS hired Data Analysts to collect data

## **PROFESSIONAL ENGINEERING PROCUREMENT SERVICES**



	<u> Maintenance – No Widening</u>						
Group 1	FM / RM	PM / 2R	42 CSJs				
Group 2	SH / US	PM / 2R	39 CSJs				
Group 3	Interstate	РМ	26 CSJs				
Group 4	FM / RM	ЗR	55 CSJs				
Group 5	SH / US	ЗR	33 CSJs				

#### Group 1 - 5 Summary

	,											Legend
						Function Code-Summary						
Group- Summary <sup>2</sup>	Functional Class-Summary	Design Criteria- Summary	Number of Projects-Summary		102 - Route	120 - ENV	145 - Project Management	160 - Roadway	161 - Drainage	162 - Signing and Marking	163 - Misc	Group-Summary
1	FM	PM/2R	42	Average-Summary	18.60	3.29	27.49	125.38	89.07	47.38	108.36	(AII)
Ŧ	FIVI	PW/ZR	42	Std Dev-Summary	7.24	1.26	6.63	42.14	49.53	20.88	50.67	
2	SH	PM/2R	39	Average-Summary	30.00	6.52	40.24	101.84	60.48	51.73	108.26	Function Code-Summary
2	эп	PIVIJZR	55	Std Dev-Summary	16.05	7.35	20.91	33.68	16.87	21.19	44.32	(AII)
2	lata antata	PM	26	Average-Summary	19.37	1.05	26.63	112.52	28.98	37.25	53.47	
5	Interstate	PIVI	20	Std Dev-Summary	8.96	0.52	16.61	130.58	13.33	18.74	30.15	
4	FM	20	<b>FF</b>	Average-Summary	25.54	4.18	46.79	227.58	188.11	49.43	137.57	
4	4 FM 3R	3R 55	Std Dev-Summary	20.18	3.08	31.30	88.84	114.44	23.49	58.15		
-	SH	3R	33	Average-Summary	22.24	5.94	38.08	195.32	49.37	44.05	107.21	
5	51	5K	55	Std Dev-Summary	14.26	5.15	19.01	100.05	31.74	29.24	60.30	

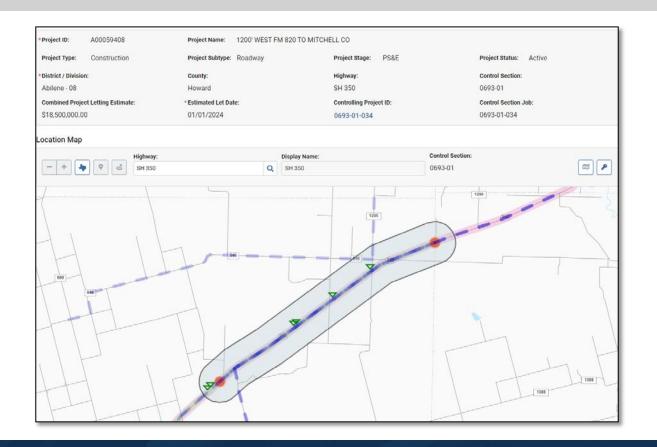
#### Labor-Hours by Job Title

Function Code-Summary	Group- Summary	Functional Class-Sum	Design Criteria-Su	Function Code Number of Projects	Avg. Project Manager / Mile	Avg. Engineer (Senior) / Mile	Avg. Engineer (Design)/Mile	Avg. Engineer (Project)/Mile	Avg. Engineer-In- Training / Mile	Avg. Engineering Tech / Mile	Avg. CADD/Mile	Avg. Admin/Mile	Avg. Support MGR / Mile	Avg. Average Hours/Mile	Avg. /
	1	FM	PM/2R	21	3.69	2.14	1.94	6.92	5.57	1.03	0.74	0.26	0.38	18.60	
	2	SH	PM/2R	24	4.00	4.36	3.42	6.16	7.17	2.90	1.27	0.15	0.36	30.00	
102 - Route	3	Interstate	PM	17	3.84	2.94	3.81	2.34	3.83	1.27	0.26	0.17	0.01	19.37	
	4	FM	3R	43	3.51	2.97	2.32	5.23	7.12	2.40	0.24	0.63	0.23	25.54	
	5	SH	3R	25	4.48	4.86	2.82	6.94	7.95	1.14	0.54	0.58	0.47	22.24	
	1	FM	PM/2R	19	0.54	0.39	0.20	0.74	0.76	0.31	0.32	0.00	0.03	3.29	
	2	SH	PM/2R	26	1.32	1.23	0.10	1.30	0.97	0.83	0.48	0.00	0.29	6.52	
120 - ENV	3	Interstate	PM	11	0.24	0.02	0.06	0.27	0.22	0.00	0.12	0.00	0.12	1.05	
	4	FM	3R	28	0.55	0.64	0.39	0.80	0.55	0.76	0.28	0.04	0.14	4.18	
	5	SH	3R	19	1.39	0.86	0.40	0.74	2.29	1.07	1.03	0.11	0.22	5.94	
	1	FM	PM/2R	24	13.11	5.75	0.67	2.72	1.19	0.30	0.08	5.23	2.26	27.49	
	2	SH	PM/2R	24	16.15	5.16	2.35	6.02	0.82	0.09	0.74	5.37	1.44	40.24	
145 - Project Management	3	Interstate	PM	17	9.53	3.40	1.22	4.06	2.68	0.07	0.39	3.22	1.23	26.63	
Management	4	FM	3R	40	19.11	6.60	1.79	6.80	2.50	0.22	0.39	5.77	2.80	46.79	
	5	SH	3R	17	23.42	7.62	1.21	10.76	1.18	0.23	0.18	7.41	1.72	38.08	
	1	FM	PM/2R	25	7.79	6.27	13.39	20.04	40.18	30.78	20.48	0.37	1.86	125.38	
	2	SH	PM/2R	21	4.62	7.40	12.31	13.65	34.02	14.04	9.66	0.32	2.38	101.84	
160 - Roadway	3	Interstate	PM	23	6.06	6.10	7.06	16.22	36.15	7.06	32.45	0.12	1.05	112.52	
	4	FM	3R	32	7.05	10.48	27.38	21.32	65.78	47.43	45.35	0.06	2.72	227.58	
	5	SH	ЗR	19	7.15	14.05	46.75	27.22	77.52	30.64	52.49	1.57	3.51	195.32	29
	1	FM	PM/2R	22	2.44	8.22	11.85	10.91	38.41	19.49	5.36	0.29	1.99	89.07	
	_														

#### CSJ 0693-01-034 SH 350 Howard County

#### **11ES** Funding

Jan 24 Let





1.	Moderate risk project with pavement rehab
2.	We are improving the pavement design to 2r design criteria
3.	The project is 13 miles long, so consultant hours might be lower than the LOE sum of total hours
4.	We are matching profile, not getting cross sections or improving drainage, traffic control by standard
5.	PS&E needs to be done in approximately six months

**11ES** Funding

Jan 24 Let

Function Code		Miles	Consultant			
102		13.5	100			
120		13.5	21			
145		13.5	364			
160		13.5	2373			
161		13.5	0			
162		13.5	532			
163		13.5	1260			
Total			4650			
FIRST SUBMITTAL						

### CSJ 0693-01-034 SH 350 Howard County 11ES Funding Jan 24 Let

Function Code	Labor Hours / Mile	Miles	Consultant	МН	Final		
102	30.0	13.5	100	400	100		
120	2.5	13.5	21	34	21		
145	34.0	13.5	364	459	364		
160	101.0	13.5	2373	1363.5	2473		
161	53.0	13.5	0	715.5	0		
162	55.0	13.5	532	742.5	532		
163	93.0	13.5	1260	1255.5	1260		
Total			4650	4970	4750		
					0.96		
FIRST SUBMITTAL							

#### THEN NEGOTIATE THE DISTRIBUTION OF LABOR HOURS

FINAL	PM	Senior Engineer	Design Engineer	Project Engineer	EIT	Engineer Tech	CADD	Admin	Support	Total	Dollar
	570	380	380	855	1425	760	357	16	7	4750	\$ 801,626.17
	12.00%	8.00%	8.00%	18.00%	30.00%	16.00%	7.52%	0.34%	0.15%		
							Senior Eng Tech				
Submittal	571	380	428	856	1416	366	712	24	0	4753	\$ 818,947.13
	12.01%	7.99%	9.00%	18.01%	29.79%	7.70%	14.98%	0.50%	0.00%		

Scoped in the field on March 2, 2023 Work Authorization Approved in 28 Days Contract is 4.45% Construction Cost DCC held May 15<sup>th</sup> and 60% Plan Review July 12<sup>th</sup> PSE Package will be turned in October 1

### CSJ 06-2-130 IH 20 FR at Hopkins Rd CAT 1 Funding

May 24 Let

*Project ID:	A00194636	Project Name:	IH 20 FR AT HOPKINS RD NOL	AN COUNTY					
Project Type:	Construction	Project Subtype:	Roadway	Project Stage:	PS&E		Project Status:	Active	
*District / Divisior	1:	County:		Highway:			Control Section:		
Abilene - 08		Nolan		IH 20					
Combined Project	ct Letting Estimate:	*Estimated Let Da	ite:	Controlling Proje	ect ID:		Control Section Job:		
\$4,000,000.00		05/01/2024		0006-02-130			0006-02-130		
imits From:				Limits To:					
imits From:				Limits To:					
FR EB EXIT TO	HOPKINS RD INTERSECTION			NFR WB EXIT					
roject Classificati	on:		Responsible District:			Budget Responsi	ble District:		
RER - Rehabilitat	ion of Existing Road		Abilene			Abilene			
hort Description:									
ehabilitate Exis	ting Roadway								
roject Descriptior	r:								
EHAB FRONTA	GE ROADS AND INTERSECTION	10" CRCP							

1.	This is a relatively high-risk project
2.	We are doing full reconstruction on i-20 frontage roads with concrete pavement
3.	The project is 3 miles long, so consultant hours should be higher than the LOE sum of total hours
4.	Not changing profile, drainage, or getting cross sections
5.	Traffic control will be unique and difficult
6.	PS&E needs to be done in approximately six months

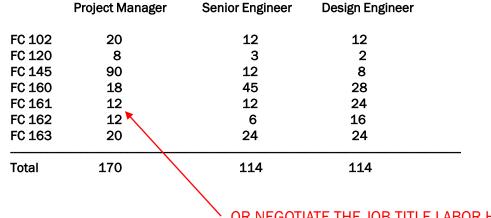
FC		Miles	Consultant			
102		3.0	62			
120		3.0	14			
145		3.0	154			
160		3.0	828			
162		3.0	55			
163		3.0	446			
Total			1559			
	FIRST SUBN	AITTAL /				

### WE NEGOTIATED EACH FUNCTION CODE

FC	Ave / Mile	Miles	Consultant	MH	Final
102	33.0	3.0	62	99	76 🕨
120	6.0	3.0	14	18	18
145	44.0	3.0	154	132	144
160	154.0	3.0	828	462	675
162	55.0	3.0	55	165	120
163	100.0	3.0	446	300	388
Total			1559	1176 🔪	1421
	FIRST SUBM	1ITTAL 🖊			THEN THE FLOP

### THEN NEGOTIATE THE JOB TITLE LABOR HOURS BY PERCENT

PM	Senior Engineer	Design Engineer	Project Engineer	EIT	Engineer Tech	CADD	Admin	Support	Total
170	114	114	256	440	200	100	16	11	1421
11.96%	8.02%	8.02%	18.02%	30.96%	14.07%	7.04%	1.10%	>1%	



OR NEGOTIATE THE JOB TITLE LABOR HOURS BY EACH FUNCTION CODE

# CSJ 360-04-33 US 380 Haskell to Throckmorton CAT 11 Funding Dec 23 Let

* Project ID: A00195423	Project Name:	US 380 HASKELL ECL TO THROCKM	ORTON		
Project Type: Construction	Project Subtype:	Roadway	Project Stage: PE	Project Status:	Active
*District / Division: Abilene - 08	County: Haskell		Highway: US 380	Control Section: 0360-04	
Sealed Engineer's Estimate: \$7,735,157.45	* Estimated Let Date: 12/05/2023		Controlling Project ID: 0360-04-033	Control Section Jol 0360-04-033	b:

### Project Details

Limits From:		Limits To:	
		Linito Io.	
HASKELL EAST CITY LIMITS		THROCKMORTON COUNTY	
Project Classification:	Responsible District:		Budget Responsible District:
OV - Overlay	Abilene		Abilene
Short Description:			

Preventive Maintenance

Project Description:

OVERLAY

1.	Very low risk project - simply an overlay project
2.	Improving the pavement conditions is our only goal
3.	Project is over 14 miles long, so consultant hours might be lower than the LOE sum of total hours
4.	We are not getting cross sections, improving drainage, traffic control by standard
5.	PS&E needs to be done in six months

# CSJ 0360-04-033 US 380 – Haskell CL to Throckmorton Co.

FC	Ave / Mile	Miles	Consultant
102		14	400
120		14	20
130		14	30
145		14	162
160		14	1050
161		14	38
162		14	314
163		14	546
Total			2560

ACCEPTED AT FIRST OFFER -

2023 PEPS Conference

Sep 23 RTL

# CSJ 0360-04-033 US 380 – Haskell CL to Throckmorton Co.

Work Description	Cost Category	AIG Technical Services, LLC	Total		мн
	Labor	400	400		0
50 400 4440	Direct Expenses		0		0
FC 102 (110)	Unit Cost		0		0
	Subtotal FC 110	400	400	16%	270
	Labor	20	20		0
	Direct Expenses		0		0
FC 120 (120)	Unit Cost		0		0
	Subtotal FC 120	20	20		18
	Labor	30	30		0
	Direct Expenses		0		0
FC 130 (130)	Unit Cost		0		0
	Subtotal FC 130	30	30	1%	0
	Labor	162	162		0
	Direct Expenses		0		0
FC 145 (145)	Unit Cost		0		0
	Subtotal FC 145	162	162	6%	207
	Labor	0	0	0,0	0
EC 160 (150)	Direct Expenses	, , , , , , , , , , , , , , , , , , ,	0		0
	Unit Cost		0		0
	Subtotal FC 150	0	0	0%	0
	Labor	1.050	1.050	0/0	0
	Direct Expenses	1,000	0		0
FC 160 (160)	Unit Cost		0		0
	Subtotal FC 160	1,050	1.050	41%	1,116
	Labor	38	38	41/0	0
	Direct Expenses		0		0
FC 160 (161)	Unit Cost		0		0
	Subtotal FC 161	38	38	1%	0
	Labor	314	314	1/0	0
	Direct Expenses	014	0		0
FC 160 (162)	Unit Cost		0		0
,/	Subtotal FC 162	314	314	12%	297
		546	546	1276	0
	Labor Direct Expenses	040	0		0
FC 160 (163)	Direct Expenses Unit Cost	<u>├</u>	0		0
. ,	Unit Cost	540			
One week	Subtotal FC 163	546	546	21%	558
Grand	Labor Totals	2,560	2,560		2,466





## Then negotiate the distribution of labor hours

Project Manager	Quality Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer (Hydraulic)	Engineer-In- Training II	Engineer Technician - Senior	Administra tive/Cleric al	Total Hours
207	80	401	488	546	8	732	80	20	2,562
8%	3%	16%	19%	21%	0%	29%	3%	1%	

# **Internal Staff**





**External Staff** 







# AJAR – Groups 6-13

Group 6	Road and shoulder widening	25 CSJs
Group 7	Super 2 passing lanes	29 CSJs
Group 8	Off system bridges under \$500k construction	47 CSJs
Group 9	Off system bridges \$500k - \$1.5M construction	38 CSJs
Group 10	On system bridges FM/RM roads under \$2M construction	20 CSJs
Group 11	On system bridges FM/RM roads \$2M - \$4M construction	18 CSJs
Group 12	On system bridges US/SH roads under \$4M construction	20 CSJs
Group 13	On system bridges US/SH roads \$4M - \$8M construction	18 CSJs

# **Business In Texas**

### Become Administratively Qualified

<u>Texas Department of Transportation</u> > <u>Business</u> > <u>Consultants</u> > <u>Architectural, Engineering and Surveying Consultants</u> > <u>Getting Started</u>

Administrative qualification is a process TxDOT uses to verify that your firm has an indirect cost rate that meets TxDOT requirements.

### Become Administratively Qualified

You may demonstrate administrative qualification by an audit or by self-certification of its incorporated entity or business segment. TxDOT requires the use of direct labor cost as the allocation base for allocating indirect costs.

- Paycheck Protection Program (PPP) Updated
- <u>Certified Public Accountant (CPA) Audit</u>
- <u>Self-Certification</u>
- <u>Safe Harbor Rate</u> (applies to Texas firms only)
- Overhead Review Process for Administrative Qualification

### Submit Qualification Documentation

After an audit is complete, you must submit qualification documentation for review.

Submittal and Review Process

### **Requirements for Processes**

The administrative qualification requirements for the four selection processes – Comprehensive, Federal, Streamlined, and Accelerated – are addressed in the <u>Texas Administrative Code</u>, Title 43, Subchapter C, in Sections 9.34(b), 9.35(b), 9.36(b), and 9.37(b), respectively. The requirements are further explained below:

- <u>Comprehensive, Streamlined and Accelerated Processes</u>
- Federal Process

When it comes to business in Texas, PEPS is a leader in:

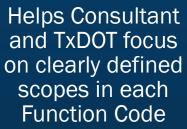
1) Innovation

- 2) Fair and Equitable Practices
- 3) Transparency and Trust

# **New Benefits**



Faster negotiations to address Project Acceleration and "Rack and Stack"



Trust between the Department and the Consultant Industry



Create continuous improvement with each negotiation reinforcing future ones.

# Labor Hours Modeling Phases

Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Abilene	Abilene, PEPS	Abilene, PEPS, BARS, ACEC	Beta Testing	Lessons Learned
9 E&S	Groups 1-5 100 PSE	Groups 1-5 200 PSE	Calendar 2024	December 2024

# Questions and Discussion

# Michael Haithcock, P.E.

TxDOT Abilene TP&D Director

Michael.Haithcock@txdot.gov

325-676-6810