McKinney Street Widening Project

Chad Allen – Capital Projects

October 17, 2017



Subject:

Consider approval of an ordinance authorizing the City Manager to execute a Professional Engineering Services agreement related to the McKinney Street Widening project:

- Huitt-Zollars, Inc.
- In the amount of \$1,358,300

Location Map: McKinney Street Widening:



Major Project Goals:

- Widen from two to four lanes from Woodrow Lane east to Grissom Road
- Construct sidewalks throughout project limits including from Loop 288 east to Billy Ryan High School
- Construct underground drainage improvements and remove roadside drainage ditches
- Resolve utility conflicts and implement overlapping 20" water transmission line CIP project from Loop 288 to Mayhill Road

Background:

- In June 2016, City of Denton and TxDOT agreed to transfer McKinney Street out of TxDOT state highway system and into City of Denton roadway network
- Transfer made official by Quitclaim Deed signed by the Governor in July of 2016
- In January of 2017, the City of Denton and TxDOT entered into an Advanced Funding Agreement to transfer \$18,267,303 to the City of Denton to be used for widening McKinney Street

Background:

- The City intends to use a design-build process for design and construction of the McKinney Street Widening project:
 - Will expedite completion of the project by allowing construction to begin before all phases of design are complete
 - Will encourage innovation and value by allowing the engineer and contractor (design-build team) to work together during final design
 - Design-build process requires the City to hire an engineering representative to perform certain duties prior to selecting the design-build team

Engineering Representative Duties Include:

- Conduct project survey
- Gather data for design process
- Identify easement/ROW needs
- Create preliminary construction plans
- Create RFQ/RFP Documents
- Perform construction administration/management

Engineering Representative Selection Process:

- City of Denton released RFQ 6401
- The City received Statements of Qualifications (SOQ) from two engineering firms
 - Huitt-Zollars, Inc.
 - Freese and Nichols, Inc.
- The City SOQ Review Panel scored the submittals
 - Huitt-Zollars, Inc. : 89 points
 - Freese and Nichols, Inc. : 74 points
- Each company was invited to a presentation/interview session
 - Review Panel recommended Huitt-Zollars be awarded the contract

Selection and Contract Agreement:

- Huitt-Zollars, Inc.
- Contract Includes
 - Basic Services = \$402,300
 - Special Services = \$944,000
 - Reimbursable Expenses = \$12,000
- Total Contract Agreement not to exceed \$1,358,300

Basic Services:

- Preliminary engineering design
- Creation of 30% preliminary construction plans
- Final sealed construction plans for concrete sidewalk leading up to Billy Ryan High School

Special Services:

- Drainage impact study
- Corridor traffic study
- Topographic/ROW surveys
- Environmental investigations
- Geotechnical investigations
- Subsurface utility engineering
- Public outreach support
- Preparation of design-builder procurement documents
- Assistance during design-build final design phase
- Design-build construction phase services
- Supplemental construction materials testing

McKinney Street Issues Map



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Estimated Project Schedule:

- Design:
- ROW/Easement Acquisition:
- Procure Design-Builder:
- D-B Final Design and Construction:

Oct. 2017 to Oct. 2018 Oct. 2017 to Oct. 2018 Nov. 2018 to Apr. 2019 Apr. 2019 to Oct. 2020

McKinney Street Project Schedule

Exhibit 6

HUITT-ZOLIARS

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City selects A/E for DB Development							-					-					-	–				-			-	-			1			—			-	-	<u> </u>	-	-	· - ·	
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1. Kickoff meeting with City					77	ł																													$ \neg$			-	-		
2. Data collection and documents review																																									
3. Survey corridor - topo, ties to ROW and property corner, utility locates																																			\square			-	-		
4. RFQ & RFP outline development																																		\square	\square						
5. Risk Assessment and charrette with City							7	<																			-														
6. Concept level preliminary engineering drawings of project																						1	LEG	GENI	D																
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7. RFQ Development																										A/E	primar	y tasi	k												
a. Define project work scope																										A/E	subtas	k													
b. Prepare draft 30% preliminary engineering docs																										DB 1	Feam a	ctivit	y										\rightarrow		
c. Establish draft project performance requirements																																									
d. Define design criteria package including any HUB requirements																							X			City	milest	one							\vdash			\rightarrow	\rightarrow		
e. Define DB team required qualifications																							17	1		A/E	milest	one				_			\vdash		+	\rightarrow	\rightarrow		
f. Establish selection criteria and scoring			_				_			raft RF	O Sub	mitte	ed -		_							4		*	UB Team milestone							+	\vdash	\vdash	\vdash	ــــ	+	\rightarrow	\rightarrow		
g. Assemble draft RFQ docs & submit									4		4.544																		_						\vdash	_	+	\rightarrow	\rightarrow		
h. Review by City			_												_					_		<u> </u>								<u> </u>		+	\vdash	\vdash	\vdash	_	+	\rightarrow	\rightarrow		
8. Finalize RFQ docs with City			_								BEO		- 1																						\vdash	\vdash	+	\rightarrow	\rightarrow	_	
9. City issues RFQ publically so prospective DB teams can review			_				_		_	24	CT-	- H	eu COO			1						_						_		_		+'		\vdash	\vdash		\downarrow	\rightarrow	\rightarrow	_	+
10. DB teams submit SOQs		_	+				\rightarrow		_			X	5009	recei	ved			<u>ا</u> ا		_	_	-					_	+	-	-		+'	\vdash	\mapsto	\vdash		\vdash	\rightarrow	\rightarrow	_	
11. City selects short list of 3 most qualified DB teams			_				_		_		_			C DB	team	ns sho	rtliste	d				_						_	_	_		+	\vdash	\mapsto	\vdash		+	\rightarrow	\rightarrow		
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a. Finalize project work scope		_	+		-		\rightarrow	-	-		-	+			-	-	-	+		-	_	+					_	-	-	-		+'	+	\vdash	\vdash		+	\rightarrow	+	-	+
b. Prepare final 30% preliminary engineering docs		-	+	-	-		\rightarrow		-		-				-	-	-	+ +		-	_	-		-			_	+	+	-		+'	+	⊢	\vdash		++	+	+	-	
c. Prepare geotechnical baseline report			-		-		-				_	-			_	-	-			-		-						-	-	-		+	++	⊢	٣	+	++	\rightarrow	+	-	
O. Prepare project requirements and design criteria		-	+				-		-		\rightarrow	-			-	-	-			-	_	-						+	-	-		+'	+	⊢	1	+	++	+	\rightarrow	-	
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b. Define DB team selection criteria and scoring		-	+				-		-		-				-	-				-	-	-					-		+	-		+		\vdash		-	+ +	-	+	-	+
i. Define stipend requirements for unsuccessful offerors			-				-		-		-			_								-						+	-	-		+			ر ا	-	+++	+	-	-	+
i. Assemble draft RFP docs & submit		-	+		-		-		-			-	-	<u>–</u>	Draft	RFP S	ubmit	tted	\square		-	-						+	-	-		+	+	$ \rightarrow $	<u> </u>	-	+ +	-	+	-	+
k. Review by City			-											1			1					1										+			-	-		+	-		
13. Finalize RFP docs with City		-	+						-			-				-						-							1	-		+			-	-	+	-	+		
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14. RFP solicitation process																																			$ \neg$			-			
a. City issues RFP to short-listed DB teams															5	RF	P Issu	Jed																	\square				-		
b. Hold one-on-one meetings with DB teams; consider ATCs															-	1							1											\square							
c. City receives proposals																			F P	ropos	als Rec	eived	· 🗆											\square	\square						
d. DB team selection by City, negotiation and award																		L 1							Ц													Т			
e. Award by City Council																				7	City (ound	il Awa	ard		l,															
15. DB contract execution and NTP																				1	` ★ '	NTP t	o DB 1	Team	n											1					
Design-Builder work (Final Design & Construction)																																					Pro Pro	ject C	ompl	lete	
16. A/E Support Services during DB Contract																																					Ľ.				
a. Coordinate & review DB's Final Design docs																																									
b. Review of RFIs, submittals, and pay applications				_			\rightarrow		_							_	-					-														\vdash		\rightarrow	\rightarrow		
c. Independent inspection services																																						$ \rightarrow $	\rightarrow		
d. Construction materials engineering and testing				_												_	-	\square						<u> </u>												\vdash		\rightarrow	\rightarrow		
e. Verification services																	-													-						-		\square			-
f. Project close-out (record drawings, bonds, payments, etc.)																	-	\square														\perp					Pro	ject \	/alida	ted	4
17. Project oversight & acceptance by City																	-																			1÷	Pro	ject /	Accen	ted	
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Staff Recommendation:

Approve an ordinance authorizing the City Manager to execute a Professional Engineering Services agreement by and between the City of Denton, Texas and Huitt-Zollars, Inc., in the not-to-exceed amount of \$1,358,300, for engineering services related to the McKinney Street Widening project.

Questions?