

72ND AVE SE OVER CREEK

Cost Proposal Summary

CITY OF NORMAN

Egis USA, Inc., 6301 Waterford Boulevard, Suite 310 Oklahoma City, OK 73118

DESCRIPTION	NEGOTIATED FEE	
Bridge		
Bridge Design	30,900.00	Lump Sum
Bridge Hydraulics - IDEA Group	18,500.00	Lump Sum
Roadway		
Roadway	69,700.00	Lump Sum
Geotechnical		
In-Place Soil Survey - Red Rock Consulting	9,568.14	Unit Rate
Survey		
Design Survey - Frontier Land Surveying	19,500.00	Lump Sum
Right-of-Way Staking - Frontier Land Surveying	3,500.00	Unit Rate
Easement/ROW Exhibit Survey Services - Frontier Land Surveying	3,900.00	Unit Rate
Environmental		
Environmental - CC Environmental	20,000.00	Lump Sum
Additional Services		
Utility Coordination	8,000.00	Lump Sum
As-Built Drawing Services	4,000.00	Lump Sum
Construction Administration	22,800.00	Hourly
Contract Total	\$ 210,368.14	

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE ENGINEERING CONTRACT FEE PROPOSAL
Sheet 1 of 4**

E.C. NO. _____ SWO NO. _____ JOB PIECE NO. _____
COUNTY _____ CITY _____ PROJECT NO. _____
HIGHWAY NO. _____ PROJECT DESCRIPTION **72nd Ave SE over Creek**
BRIDGE DESIGNATION _____ BRIDGE DESCRIPTION **3-12'x8' RCB Replacement**
NAME OF ORGANIZATION SUBMITTING PROPOSAL **Egis USA, Inc.**

DIRECT SALARY COSTS

Labor Description Labor Rate	LABOR CATEGORY						Sub-Task	Task	Activity	Cost
	1	2	3	4	5	6				
	Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc. I	Designer I	CAD Tech II				
	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71				
HOURS										
3.3 Perform Bridge Hydraulics										
3.3.1 Perform Hydraulic Analysis/Design										
3.3.2 Attend Hydraulic Conferences										
3.3.3 Produce/Review Hydraulic Report										
3.4 Generate Bridge Finished Grade Requirements										
3.8 Prepare Preliminary Bridge Plans	1	4	6	4	12	12			39	\$ 5,642
3.8.1 Compute Preliminary Geometrics			4	4				8		
3.8.2 Perform Preliminary Structural Design										
3.8.3 Perform Comparative Cost Estimates										
3.8.4 Draft Preliminary Bridge Plans					12	12		24		
3.8.4.1 Draft Preliminary General Plan & Elevation					12	12	24			
3.8.4.2 Draft Preliminary Sequence of Construction Sheets (If Necessary)										
3.8.4.3 Draft Preliminary Details (If Necessary)										
3.8.5 Check & Review Preliminary Bridge Plans	1	4						5		
3.8.6 Prepare Cost Estimate			2					2		
3.10 Attend Preliminary Plan Field Review			4						4	\$ 672
3.11 Perform Post-Preliminary Field Review Process										
3.11.3 Prepare Preliminary Plan Field Review Report										
3.11.7 Make Changes From Preliminary Plan Field Review										
3.11.7.1 Make Changes to Bridge Plans										
3.11.7.3 Revise Cost Estimate Based Upon Square Foot Costs										
3.12 Generate Bridge Sounding Requirements										
3.12.1 Layout Boring Locations On GP&E										
3.14 Prepare Corps Permit Application										
3.16 Attend Right-of-Way & Utility Meeting										
3.17 Perform Railroad Process										
3.17.2 Bridge Drafts and Supplies Exhibit A										

Footnote: If an item is not applicable, leave the box blank.

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE ENGINEERING CONTRACT FEE PROPOSAL
Sheet 2 of 4**

DIRECT SALARY COSTS

Bridge	Labor Description	LABOR CATEGORY						Sub-Task	Task	Activity	Cost
		1	2	3	4	5	6				
		Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc.	Designer I	CAD Tech II				
	Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71				
		HOURS									
3.22 Prepare Bridge Structural Design				12						12	\$ 2,016
3.22.1 Perform Structural Design of Components				8					8		
3.22.1.1 Design Superstructure											
3.22.1.2 Design Piers											
3.22.1.3 Design Abutment											
3.22.1.4 Design R.C. Box											
3.22.1.5 Design Retaining Walls/Sound Walls											
3.22.1.6 Design Miscellaneous Components				8				8			
3.22.2 Perform Structural Design Check of Components				4					4		
3.22.2.1 Check Superstructure											
3.22.2.2 Check Piers											
3.22.2.3 Check Abutment											
3.22.2.4 Check R. C. Box											
3.22.2.5 Check Retaining Walls/Sound Walls											
3.22.2.6 Check Miscellaneous Components				4				4			
3.23 Prepare Bridge Foundation Design											
3.23.1 Review Bridge Geotechnical Report											
3.23.2 Develop & Plot Foundation Report Sheets											
3.23.3 Develop Foundation Design Parameters											
3.23.4 Attend Foundation Conference											
3.24 Prepare Bridge Final Plan Field Review Plans		2	6	12	16		4			40	\$ 6,318
3.24.1 Compute Final Bridge Geometry				4	8				12		
3.24.1.1 Compute Final Overall Geometry				2	4			6			
3.24.1.2 Compute Final Component Geometry				2	4			6			
3.24.2 Draft Proposed Bridge Plans					4		4		8		
3.24.2.1 Modify Proposed General Plan & Elevation					4		4	8			
3.24.2.2 Modify Proposed Sequence of Construction Sheets											
3.24.2.3 Draft Proposed Detail Sheets as Req. for Constructability Review											
3.24.3 Check & Review Proposed Bridge Plans		2	6	6					14		
3.24.4 Prepare Cost Estimate Based upon Preliminary Quantities				2	4				6		
3.27 Attend Final Plan Field Review				4						4	\$ 672
3.28 Perform Post-Final Field Review Process				2			12			14	\$ 1,617
3.28.1 Prepare Final Plan Field Review Report											
3.28.4 Make Changes From Final Plan Field Review				2			12		14		
3.28.4.1 Make Changes to Bridge Plans							10	10			
3.28.4.5 Revise Cost Estimate Based Upon Preliminary Quantities				2			2	4			

Footnote: If an item is not applicable, leave the box blank.

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE ENGINEERING CONTRACT FEE PROPOSAL
Sheet 3 of 4**

DIRECT SALARY COSTS

Bridge	Labor Description	LABOR CATEGORY						Sub-Task	Task	Activity	Cost
		1	2	3	4	5	6				
		Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc.	Designer I	CAD Tech II				
	Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71				
		HOURS									
3.30 Prepare Bridge Final Plans		2	8	10	8	18	38			84	\$ 11,628
3.30.1 Prepare Final Bridge Detail Sheets						8	30		38		
3.30.1.1 Finalize General Plan & Elevation Sheet(s)						8	18	26			
3.30.1.2 Finalize Construction Phasing Sheet(s)											
3.30.1.3 Finalize Foundation Report Sheet(s)											
3.30.1.4 Prepare Staking Detail Sheets(s)											
3.30.1.5 Prepare Abutment Detail Sheets(s)											
3.30.1.6 Prepare Wingwall Detail Sheet(s)											
3.30.1.7 Prepare Substructure Excavation Detail Sheet(s)											
3.30.1.8 Prepare Pier Detail Sheet(s)											
3.30.1.9 Prepare Superstructure Detail Sheet(s)											
3.30.1.10 Prepare Beam Detail Sheet(s)											
3.30.1.11 Prepare Bearing Assembly Detail Sheet(s)											
3.30.1.12 Prepare Approach Slab Detail Sheets(s)											
3.30.1.13 Prepare Slope Wall Detail Sheet(s)											
3.30.1.14 Prepare Riprap Detail Sheet(s)											
3.30.1.15 Prepare Bridge Rehabilitation Detail Sheets(s)											
3.30.1.16 Prepare RCB Barrel Detail Sheet(s)											
3.30.1.17 Prepare RCB Wing/Apron Detail Sheet(s)											
3.30.1.18 Prepare Channel Modification Sheet(s)											
3.30.1.19 Prepare Retaining Walls/Sound Walls Layout Sheet(s)											
3.30.1.20 Prepare Retaining Walls/Sound Walls Detail Sheet(s)											
3.30.1.21 Prepare Miscellaneous Detail Sheet(s)							12	12			
3.30.2 Compute Quantities				4	8				12		
3.30.3 Prepare Bridge General Notes Sheet(s)						4	4		8		
3.30.4 Prepare Bridge Summary of Quantities Sheet(s)						4	4		8		
3.30.5 Prepare Bridge Special Provision(s)											
3.30.6 Check & Review Final Bridge Plans		2	6	6					14		
3.30.7 Prepare Final Bridge Construction Estimate			2			2			4		
5.1 Perform Plan Revisions			2			4	12			18	\$ 2,323
5.1.1 Revise Plans per Review Comments			2			4	12		18		
5.1.2 Attend Pre-Bid Conference											

Sub-Total Direct Salary Costs		5	20	50	28	34	78			215	\$ 30,889
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Footnote: If an item is not applicable, leave the box blank.

OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE ENGINEERING CONTRACT FEE PROPOSAL
Sheet 4 of 4

Bridge

DIRECT SALARY COSTS	_____	215 hours	30,889
PAYROLL ADDITIVE (Vacation, sick leave, retirement, FICA, etc.) Input percentage of Direct Salary Costs	_____		0
DIRECT NON-PAYROLL COSTS			
Materials & Supplies	_____		
Reproduction	_____		
Data Processing	_____		
Travel Expenses	_____		
Equipment Rental	_____		
Outside Engr. Consultants	_____		
Other (specify)	_____		
Subtotal	_____		
Subtotal - All Direct Costs	_____		30,889
INDIRECT COSTS (Administration, rent, utilities, telephone, etc.) Input percentage of All Direct Costs	_____		0
Subtotal - Direct & Indirect	_____		30,889
PROFIT	_____		
TOTAL PROPOSED BRIDGE PLAN DEVELOPMENT FEE	_____		30,889
Computed Aggregate Rate per Labor Hour	_____	\$ 143.67 per hour	
MAXIMUM BRIDGE CONSTRUCTION SERVICES FEE	_____		
TOTAL PROPOSED BRIDGE FEE	_____		30,889

Prepared by: _____ Date: _____

Footnote: If an item is not applicable, leave the box blank.

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
ROADWAY ENGINEERING CONTRACT COST PROPOSAL**

Proposal Date: _____

E.C. NO.	SWO NO.	JOB PIECE NO.
COUNTY : CLEVELAND	CITY : Norman	PROJECT NO.
HIGHWAY NO.	ORGANIZATION SUBMITTING PROPOSAL : Egis USA, Inc.	
PROJECT DESCRIPTION : 72nd Ave SE over Creek		

DIRECT SALARY COSTS

Labor Description	Labor Category					
	Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc. I	Designer I	CAD Tech II
Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71

ROADWAY PLAN DEVELOPMENT I

	HOURS						Sub-Task	Task	Activity	Cost
3.2 Prepare Preliminary Roadway Plans	0	1	33	14	90	78			216	\$ 27,937
3.2.2 Create Title Sheet And Generate Location Map			1			4		5		
3.2.5 Draft Typical Section		1	2	4		6		13		
3.2.6 Develop Plan & Profile Sheets			13	2	44	54		113		
3.2.6.2 Prepare Survey Files For Design				2	4	4	10			
3.2.6.3 Generate Horizontal Alignment			1		4	4	9			
3.2.6.5 Generate Existing Ground						6	6			
3.2.6.6 Generate Profile			4		12		16			
3.2.6.7 Generate P&P Sheets			4		12	20	36			
3.2.6.8 Draft P&P Sheets			4		12	20	36			
3.2.7 Design Drainage Structures			9	4	8	8		29		
3.2.7.1 Analyze Existing Drainage System			4		8		12			
3.2.7.2 Determine Size of Cross-Drain Structures			4				4			
3.2.7.3 Generate Drainage Map			1	4		8	13			
3.2.8 Develop Finished Grade Line			8	4	38	6		56		
3.2.8.1 Design Vertical Alignment				4	6		10			
3.2.8.2 Develop Templates			4		16		20			
3.2.8.3 Develop Preliminary Cross Sections			4		16		20			
3.2.8.5 Develop Preliminary End Areas And Volumes						6	6			
3.5.3 Design Superelavation										
3.7.1 Develop Preliminary Construction Sequence										

3.2 Establish Right-of-Way Requirements	0	1	6	14	10	4			35	\$ 4,655
3.15.1 Finalize Horizontal and Vertical Alignments		1	2	4		4		11		
3.15.6 Develop R/W Submission Plans			4	10	10			24		
3.15.6.4 Design Driveways				6	6		12			
3.15.6.5 Design Side Drains				4	4		8			
3.15.6.6 Finalize Roadway Drainage Structure Design			4				4			
3.15.6.7 Design Special Drainage Structures										
3.18.2 Prepare Comparative Estimates for Pavement Design										

3.20 Prepare Roadway Final Cross Sections	0	0	8	0	40	68			116	\$ 14,025
3.15.4 Develop Cross Sections			8		40	54		102		
3.15.4.1 Generate Cross Sections			6		16	24	46			
3.15.4.2 Drain Cross Sections										
3.15.4.4 Drafting On Cross Sections			2		24	30	56			
3.21.2 Perform Earthwork Calculations						14		14		
3.21.2.1 Calculate End Areas And Volumes						6	6			
3.21.2.2 Generate Mass Diagram										
3.21.2.3 Draft End Areas And Volumes On Cross Sections						8	8			

Revised - 10/03/2016

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
ROADWAY ENGINEERING CONTRACT COST PROPOSAL**

DIRECT SALARY COSTS

Labor Description	Labor Category								
	Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc. I	Designer I	CAD Tech II			
Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71			
3.25 Prepare Traffic Final Plans	0	0	6	12	0	28		46	\$ 5,380
3.25.1 Develop Final Construction Traffic Control Plans			2	4		8	14		
3.25.2 Develop Final Signing & Striping Plans			2	4		12	18		
3.25.3 Develop Final Signal Plans									
3.25.4 Develop Final Lighting Plans									
3.31.1 Summarize Traffic Plans			2	4		8	14		
3.29 Prepare Roadway Final Plans	0	0	11	18	28	50		107	\$ 13,056
3.20.1 Develop Final Sequence Of Construction Sheets									
3.21.1 Generate Removal Sheets And Details									
3.29.2 Calculate Quantities			4	8		20	32		
3.29.3 Generate Site Specific Erosion Control Plans			2		8	12	22		
3.29.4 Generate Storm Water Pollution Prevention Plan Sheet			1	2			3		
3.29.5 Generate Detail Sheets						2	2		
3.29.5.1 Design And Generate Joint Layout Sheets									
3.29.5.2 Design And Generate Drainage Structure Details									
3.29.5.3 Generate Miscellaneous Detail Sheets									
3.29.5.4 Generate Survey Data Sheets						2	2		
3.29.6 Generate Summary Sheets			2	4	12	16	34		
3.29.7 Assemble Pay Items And Notes			2	4	8		14		
I. Estimates / Reporting	3	0	7	0	0	0		10	\$ 1,973
3.11 Prepare Preliminary Plan Field Review Report & Cost Estimate	1		2				3		
3.28 Prepare Final Plan Field Review Report & Cost Estimate	1		2				3		
3.30 Prepare Final Cost Estimate Using Current ODOT Est. Software	1		2				3		
S-1 Prepare Special Provisions			1				1		
S-2 Drainage Studies and Reports									
▲ S-3 Modify Activity Description as Directed by ODOT									
▲ S-4 Modify Activity Description as Directed by ODOT									
S-5 Estimated Effort to Administer Subconsultants.									
II. Meetings	10	0	0	0	0	0		10	\$ 2,655
S-3 Confirmation of Scope & Fee Proposal	4						4		
S-4 Additional Meetings Outside Normal Project Requirements									
3.10 Preliminary Plan Field Review	2						2		
3.16 Right-of-Way & Utility Review	2						2		
3.27 Final Plan Field Review	2						2		
5.1 Pre-Bid									
Roadway Plan Development Totals	13	2	71	58	168	228		540	\$ 69,681

Computed Aggregate Rate per labor hour

\$ 129.04 per hour

▲ Revised - 10/03/2016 These activities are to be used only if directed by ODOT. If directed the consultant shall provide an appropriate description of the activity.

Footnote: If an item is not applicable, leave it blank.

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

E.C. NO. _____
COUNTY : _____
HIGHWAY NO. _____
PROJECT DESCRIPTION : _____

SWO NO. _____
CITY: _____
ORGANIZATION SUBMITTING PROPOSAL: _____

FEE PROPOSAL SUBMISSION DATE: _____
JOB PIECE NO. _____
PROJECT NO. _____
Egis USA, Inc. _____

72nd Ave SE over Creek - Utility Coordination

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

DIRECT SALARY COSTS

Labor Description	Labor Category					
	Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc. I	Designer I	CAD Tech II
Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71

I. M5-M7		0	20	0	0	12	12		44	\$ 7,905
	S-1 Utility Coordination		20			12	12		44	
	S-2									
	S-3									
	S-4									
	S-5									
	S-6									
	S-7									
	S-8									
	S-9									
	S-10									

Totals		0	20	0	0	12	12		44	\$ 7,905
Computed Aggregate Rate per labor hour									\$ 179.66	per hour

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

E.C. NO. _____
COUNTY : _____
HIGHWAY NO. _____
PROJECT DESCRIPTION : _____

SWO NO. _____
CITY: _____
ORGANIZATION SUBMITTING PROPOSAL: _____

FEE PROPOSAL SUBMISSION DATE: _____
JOB PIECE NO. _____
PROJECT NO. _____
Egis USA, Inc. _____

72nd Ave SE over Creek - As Builts

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

DIRECT SALARY COSTS

Labor Description	Labor Category					
	Proj. Mgr. II	Engineer III	Engineer I	Engr. Assoc. I	Designer I	CAD Tech II
Labor Rate	\$ 265.50	\$ 249.85	\$ 168.03	\$ 115.30	\$ 135.61	\$ 106.71

I. M5-M7		0	4	0	0	12	12		28	\$ 3,907
	S-1 As-Built Record Plans		4			12	12		28	
	S-2									
	S-3									
	S-4									
	S-5									
	S-6									
	S-7									
	S-8									
	S-9									
	S-10									

Totals		0	4	0	0	12	12		28	\$ 3,907
Computed Aggregate Rate per labor hour									\$ 139.54	per hour

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

E.C. NO. _____
COUNTY : _____
HIGHWAY NO. _____
PROJECT DESCRIPTION : _____

SWO NO. _____
CITY: _____
ORGANIZATION SUBMITTING PROPOSAL: _____

FEE PROPOSAL SUBMISSION DATE: _____
JOB PIECE NO. _____
PROJECT NO. _____
Egis USA, Inc. _____

72nd Ave SE over Rock Creek - Construction Administration

CITY OF NORMAN
ENGINEERING CONTRACT COST PROPOSAL

DIRECT SALARY COSTS

Labor Description	Labor Category					
	Proj. Mgr. II	Engineer III	Engineer I			
Labor Rate	\$ 275.00	\$ 260.00	\$ 175.00			

I. M5-M7		38	0	68	0	0	0		106	\$ 22,350
	S-1 Attend pre-construction meeting	4		4				8		
	S-2 Attend monthly construction progress meeting	24		24				48		
	S-3 Review contractor's submittals			12				12		
	S-4 Address RFI, amendments, and change orders	6		16				22		
	S-5 Review contractor's pay estimates			8				8		
	S-6 Attend final walk-through meeting	4		4				8		
	S-7 Expenses - Mileage									\$ 435
	S-8									
	S-9									
	S-10									

Totals		38	0	68	0	0	0		106	\$ 22,785
Computed Aggregate Rate per labor hour									\$ 210.85	per hour