

**AMENDMENT NO. 1 TO CONTRACT NO. K-0809-165  
AGREEMENT FOR PROFESSIONAL SERVICES  
BETWEEN CITY OF NORMAN AND ENGINEER**

This is an agreement made as of the 23rd day of August, 2010 between the City of Norman (OWNER) and CP&Y, Inc. (ENGINEER) amending the Original Contract No. K-0809-165 dated June 23, 2009 between said parties. OWNER intends to expand the design work beyond the scope of work included in the above said Original Contract. The following shall be considered as the additional work beyond the original scope.

**1. GENERAL**

- 1.1. The hydrologic and hydraulic analysis of the Little River floodplain at the Franklin Road crossing provided several alternatives of bridge structure lengths and span configurations. The selected alternative agreed upon by the CONSULTANT and the OWNER consisted of two three-span structures – one spanning Little River (Bridge “A”) and the other spanning an Overflow Channel (Bridge “B”).
- 1.2. The Scope of Services was based on replacing the existing RCB culvert with a single three-span, prestressed concrete beam structure utilizing ODOT Bridge Standards for the majority of bridge elements, including the deck, beams, bearings, abutments, pier caps, expansion joints, and approach slabs (Sect. 1.1.11).
- 1.3. Additional design work above and beyond what is provided in the ODOT Standards for the above mentioned bridge elements will be handled by an addendum to the original contract (Sect. 1.2.3). ODOT Standards are provided for bridge structures with a 40 ft. clear roadway width.

**2. BRIDGE DESIGN**

- 2.1. The CONSULTANT shall provide the engineering and technical services required for the additional structure, Bridge “B”, as stated above.
- 2.2. The CONSULTANT shall provide the design and detailing necessary to adapt the 40 ft. clear roadway section provided by the ODOT Standards to the 48 ft. clear roadway width required along Franklin Road.
  - 2.2.1. Additional engineering design and detailing is required to verify or adjust the following design values provided by the ODOT Standards:
    - 2.2.1.1. Overhang deck reinforcing at parapet
    - 2.2.1.2. Prestress concrete beam stresses due to adjusted beam spacing
    - 2.2.1.3. Abutment reinforcing and pile stresses due to adjusted beam spacing
    - 2.2.1.4. Pier cap reinforcing due to adjusted beam spacing
    - 2.2.1.5. Bearing pad sizes and thicknesses due to adjusted beam spacing

2.2.1.6. Quantities for all items listed above

2.2.2. Additional plan sheets are necessary for details to supplement ODOT Standards

- 2.3. The CONSULTANT shall provide the engineering and technical services required for the Overflow Channel design, including the sizing of the outfall structure connecting to Little River.

### 3. GEOTECHNICAL SERVICES

- 3.1. Provide four (4) additional structural borings to be located at the overflow bridge structure. In three (3) of the borings, overburden soils will be sampled and tested.
- 3.2. One (1) additional day of traffic control is required.
- 3.3. Additional analysis and report preparation.

OWNER and ENGINEER in consideration of the mutual covenants herein agree to the following in respect to the performance of Professional Engineering Services and the payment for those services by OWNER as set forth below for the above described additional scope of work.

1. For additional services described herein, the CONSULTANT shall be paid a lump sum fee of forty-eight thousand four hundred forty dollars (\$48,440.00).
2. Design Fee Summary

Bridge Design	\$37,940.00
Geotechnical Investigation	\$10,500.00
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Total	\$48,440.00

3. The attached Exhibit A1 contains a breakdown of the additional Bridge Design man hour estimates required above and beyond the estimated hours in the original contract.
4. All other requirements of the ENGINEER included in the Original Contract shall remain in effect for the purposes of this agreement.

This Amendment No. 1 is subject to all terms, covenants, and conditions not inconsistent herewith contained in the Original Contract No. K-0809-165 dated June 23, 2009 which terms, covenants, and conditions are hereby reaffirmed and ratified.

IN WITNESS WHEREOF. OWNER and ENGINEER have executed this agreement.

DATED this 23rd day of August, 2010.

CITY OF NORMAN

CP&Y, INC.

Owner

Engineer

By: Cindy Rosenthal

By: Arnold Cohen

Name: Cindy Rosenthal

Name: Arnold Cohen

Title: Mayor

Title: President

Date: August 23, 2010

Date: 11/17/10

ATTEST:

ATTEST:

Renee Hall  
City Clerk

David Hay  
Secretary

APPROVED as to form and legality this 23rd day of August, 2010

R. Bruce  
City Attorney

CONTRACT NUMBER:  
WORK AUTHORIZATION #  
CHIANG PATEL & YERBY, INC.

City of Norman  
Contract No. K-0809-165 AMENDMENT  
Franklin Road over Little River  
Cleveland County, OK

CP&Y, Inc.  
1000 W. Wilshire Blvd., Suite 224  
Oklahoma City, OK 73116

**EXHIBIT A1**  
**AMENDMENT NO.1 HOURS**

Bridge Design Fee Proposal - Bridge B

Task Description	No. Shts	Project Manager	Senior Engineer	Design Engineer	Design Technician	Admin / Clerical	Totals	
							Hours	Cost
<b>2.3 BRIDGE DESIGN</b>								
2.3.1 Preliminary Analysis		0	0	4	0	0	4	\$ 440.00
2.3.1.1 Compute Preliminary Geometrics				4				
2.3.1.2 Perform Preliminary Structural Design				4				
2.3.1.3 Evaluate Bridge Options (Incl. Cost Estimate)								
2.3.1.4 Provide Bridge Information to Preliminary Engineering Report								
2.3.2 Prepare Preliminary Bridge Plans		2	4	4	8	0	18	\$ 2,190.00
2.3.2.1 Update Preliminary Geometrics / Structural Design								
2.3.2.2 Draft Preliminary Bridge Plans		0	0	2	8	0		
2.3.2.2.1 Draft Prelim General Plan & Elevation				2	8			
2.3.2.2.2 Draft Prelim Typical Section								
2.3.2.3 Perform Prelim. Plan QC Review		2	4	2				
2.3.2.4 Prepare Prelim Cost Estimate								
2.3.3 Attend Plan In-Hand							0	\$ -
2.3.4 General Bridge Boring Requirements					2		2	\$ 200.00
2.3.5 Prepare Bridge Structural Design		0	44	34	0	0	78	\$ 10,340.00
2.3.5.1 Perform Structural Design of Components		0	28	34	0	0		
2.3.5.1.1 Design Superstructure			4	4				
2.3.5.1.2 Design Abutment				4				
2.3.5.1.3 Design Piers			16	24				
2.3.5.1.4 Design Misc. Components (Bearings, Joints, Etc.)			4					
2.3.5.1.5 Design Foundations			4	2				
2.3.5.2 Perform Structural Design Check of Components		0	16	0	0	0		
2.3.5.2.1 Check Superstructure			4					
2.3.5.2.2 Check Abutment			2					
2.3.5.2.3 Check Piers			8					
2.3.5.2.4 Check Misc. Components (Bearings, Joints, Etc.)			2					
2.3.5.2.5 Check Foundations								

CONTRACT NUMBER:  
WORK AUTHORIZATION #  
CHIANG PATEL & YERBY, INC.

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Task Description	No. Shfts	Project Manager	Senior Engineer	Design Engineer	Design Technician	Admin / Clerical	Totals	
							Hours	Cost
2.3.6 Prepare Final Bridge Plans								
2.3.6.1 Compute Final Bridge Geometry		6	16	48	142	0	212	\$ 22,980.00
2.3.6.1.1 Compute Final Overall Geometry		0	2	4	6	0		
2.3.6.1.2 Compute Final Component Geometry			1	2	4			
2.3.6.2 Prepare Final Bridge Detail Sheets				1	2			
2.3.6.2.1 Finalize General Plan & Elevation Sheet	1	6	4	34	108	0		
2.3.6.2.2 Prepare Foundation Report Sheet(s)	4		2	2	12			
2.3.6.2.3 Prepare Substructure Layout Sheet	1				4			
2.3.6.2.4 Prepare Abutment and Wingwall Detail Sheet(s)	1			2	8			
2.3.6.2.5 Prepare Pier Detail Sheet(s)	2			4	12			
2.3.6.2.6 Prepare Superstructure Detail Sheet(s)	2			8	20			
2.3.6.2.7 Prepare Beam Detail Sheet(s)	1	2		8	16			
2.3.6.2.8 Prepare Bearing Assembly Detail Sheet(s)	1			4	16			
2.3.6.2.9 Prepare Approach Slab Detail Sheet(s)				2	4			
2.3.6.2.10 Prepare Riprap Detail Sheet	1		2	4	16			
2.3.6.3 Compute Quantities								
2.3.6.4 Prepare Bridge General Notes Sheet				4	16			
2.3.6.5 Prepare Bridge Summary of Quantities Sheet	1			1	4			
2.3.6.6 Prepare Bridge Special Provisions				1	4			
2.3.6.7 Perform Bridge Plans QC Review			8	2	4			
2.3.6.8 Prepare Final Bridge Construction Estimate			2	2				
2.3.7 Attend Final Plan Review								
2.3.8 Revise Plans Per Comments							0	\$ -
2.3.10 Provide Construction Administration Services			2		4		6	\$ 700.00
Sub-Total Hours		8	68	94	160		10	\$ 1,140.00
Sub-Total Cost		\$ 1,400.00	\$ 10,200.00	\$ 10,340.00	\$ 16,000.00	\$ -	330	\$ 37,940.00