

**Supplemental Agreement No. 2  
for  
Engineering/Architectural Services**

**159<sup>TH</sup> STREET – NALL AVENUE TO MISSION ROAD (TH-0872)**

**City of Overland Park, Kansas**

This Supplemental Agreement made this \_\_\_\_ day of, \_\_\_\_\_ 2014, by and between the City of Overland Park, Kansas, hereinafter called the "City", and Affinis Corp., hereinafter called the "Consulting Engineer/Architect."

**WHEREAS**, the City and the Consulting Engineer/Architect have previously entered into an Agreement, dated March 3, 2014 (the "Original Agreement") for design of 159<sup>th</sup> Street – Nall Avenue to Mission Road (the "Project"); and

**WHEREAS**, Section II of said Original Agreement provides that the Consulting Engineer/Architect may provide the City certain additional services outside the scope of the Original Agreement as requested and authorized in writing by the City; and

**WHEREAS**, the City desires to receive and the Consulting Engineer/Architect desires to provide certain additional services related to the Project as further outlined in Exhibit A, attached hereto and incorporated by reference herein (the "Additional Services"); and

**WHEREAS**, this Supplemental Agreement between the parties outlines the understanding of the parties regarding the provision of the Additional Services by the Consulting Engineer/Architect to the City; and

**WHEREAS**, the City is authorized and empowered to contract with the Consulting Engineer/Architect for the necessary Additional Services for the Project, and necessary funds for the payment of said Additional Services are available.

**NOW THEREFORE**, the parties hereby agree as follows:

**PART A - BASIC CONSULTING ENGINEERING/ARCHITECT SERVICES**

The Consulting Engineer/Architect will complete the Additional Services to the City's full satisfaction and in accordance with Exhibit A of this Supplemental Agreement No. 2.

## **PART B - SCHEDULE**

The Consulting Engineer/Architect will complete the Additional Services in the time frame set forth below:

All work shown in Exhibit A of this Supplemental Agreement No. 2 shall be completed by October 31, 2015.

## **PART C - PAYMENT TO THE CONSULTING ENGINEER/ARCHITECT FOR SERVICES RENDERED**

The Additional Services will be provided at an amount not to exceed Seventy-seven Thousand Seventy and 00/100 Dollars (\$77,070.00) including reimbursables in accordance with Exhibit B, attached hereto and incorporated by reference herein.

This Supplemental Agreement No. 2 raises the maximum fee to Nine Hundred Ninety-two Thousand Nine Hundred Thirteen and 00/100 Dollars (\$992,913.00) for the Project. This is the total of the fee from the Original Agreement of Eight Hundred Eighty-seven Thousand Nine Hundred Forty-four and 00/100 Dollars (\$887,944.00) plus Twenty-seven Thousand Eight Hundred Ninety-nine and 00/100 Dollars (\$27,899.00) for Supplemental Agreement No. 1 plus Seventy-seven Thousand Seventy and 00/100 Dollars (\$77,070.00) for Supplemental Agreement No. 2.

**IN ALL OTHER RESPECTS**, the terms and conditions of the Original Agreement shall remain in full force and effect, except as specifically modified by this Supplemental Agreement No. 2 and Supplemental Agreement No. 1 including all policies of insurance which shall cover the work authorized by the Supplemental Agreements.

*(The remainder of this page has intentionally been left blank)*

**IN WITNESS WHEREOF**, the parties hereto have caused this Supplemental Agreement No. 2 to be executed as of the day and year first above written.

AFFINIS CORPORATION

CITY OF OVERLAND PARK, KANSAS

\_\_\_\_\_  
Rick Worrel, P.E.  
President

\_\_\_\_\_  
Carl Gerlach, Mayor

ATTEST:

\_\_\_\_\_  
Marian Cook  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Tammy M. Owens  
Deputy City Attorney

**Scope of Services  
Supplemental Agreement No. 2  
159<sup>th</sup> Street Widening  
Nall Avenue to Mission Road  
Exhibit A**

Scope of project: This supplement includes design, plans and specifications for construction of a **roundabout to be located at the 159<sup>th</sup> Street and Mission Road intersection**. The project also includes the necessary appurtenances of a roundabout such as pedestrian crossings, splitter islands and storm drainage.

Restoration will include seeding and sod as well as temporary erosion control to be provided per phased construction.

The City's standard traffic control details will be used as the primary basis for the traffic control plans. In addition to the standard details, sequence of construction descriptions and traffic control lane reduction restriction will be provided along with any road closing and detour plans. It is assumed the 159<sup>th</sup> Street and Mission Road intersection will be closed during construction or constructed with a shoo-fly to route traffic around the intersection.

Plans shall be formatted for bid letting according to the City of Overland Park Project Procedures Manual. Plans shall be in ENGLISH units.

The Consulting Engineer shall furnish and perform the various professional duties and services required for the construction of the Project in accordance with all tasks listed in the current City of Overland Park Project Procedures Manual.

**Task I. Preliminary Design** – all roundabout design to be performed in conjunction with roadway design of 159<sup>th</sup> Street (Nall to Mission) Improvements.

**1.01** Data Collection.

- A. Attend pre-design roundabout meeting.
- B. Modify design criteria for the project; modify design memorandum for roundabouts.
- C. Develop detailed design schedule in a form compatible with MS Project 4.0 or later. Submit copy to City, and provide digital updates at scheduled progress meetings. Include at least the following benchmarks:
  1. Data collection complete.
  2. Preliminary plans complete.
  3. Preliminary plans to all utilities.
  4. Field check complete.
  5. Legal descriptions to City.
  6. First neighborhood meeting.
  7. All other agency permit applications submitted.
  8. Final plans submitted for review.
  9. Project ready for bid.
- D. Schedule and coordinate project activities with the City (where applicable).
- E. Prepare roundabout operational analysis at the 159<sup>th</sup> & Mission

intersection during the existing and design year, AM and PM peak hours as well as an analysis to determine the lifespan of the roundabout.

**1.02** Prepare Field Check Plans

- A. Typical sections.
- B. Subsurface drainage design (Consulting Engineer to provide edge drain layout and spot elevations for critical spots on edge drains.)
- C. Surface drainage design
  - 1. Drainage area maps.
  - 2. Pavement spread and inlet spacing calculations.
  - 3. Inlet and other structure design calculations.
  - 4. Hydraulic grade calculations.
- D. Plan and Profile sheets
  - 1. Plan scale = **1"=20'**
  - 2. Profile scale H = **1"=20'**; V = **1"=5'**
- E. Taper and storage lengths is eliminated with roundabout option.
- F. Intersection layouts.
- G. Preliminary traffic control for construction plan sheets. (By Supplemental Agreement Only. Traffic control plans assume the 159<sup>th</sup> & Mission intersection will be closed or built with a shoo-fly. Carrying traffic through the intersection during construction of the roundabout will create additional efforts that would be an added service.)
- H. Preliminary traffic signals
  - 1. 159<sup>th</sup> & Mission (Future Design Plan Layouts and Signal Plumbing Plans) is eliminated with roundabout section.
- I. Preliminary pavement marking and signing.
- J. Cross sections every 25 feet.
- K. ISR wall profiles (By Supplemental Agreement Only).
- L. Quality Assurance Review.

**1.03** Develop preliminary opinion of probable project costs itemized by unit of work including contingency.

**Task II. Final Design**

**2.01** Prepare detailed plans and specifications.

- A. Typical sections.
- B. Plan and Profile sheets
  - 1. Plan scale = **1"=20'**
  - 2. Profile scale H = **1"=20'**; V = **1"=5'**

- C. Taper and storage lengths is eliminated with roundabout option.
- D. Intersection details.
- E. Sidewalk ramp design and details per ADA requirements.
- F. Traffic signals.
  - 2. 159<sup>th</sup> & Mission (Future Design Plan Layouts and Signal Plumbing Plans) is eliminated with roundabout section.
- G. Pavement marking and signing.
- H. Cross sections every 25 feet.
- I. ISR wall profiles (By Supplemental Agreement Only).
- J. Traffic control plan and construction phasing including detour routing for each phase of the project. (By Supplemental Agreement Only. Traffic control plans assume the 159<sup>th</sup> & Mission intersection will be closed or built with a shoo-fly. Carrying traffic through the intersection during construction of the roundabout will create additional efforts that would be an added service.)
- K. Landscape plan. (By supplemental agreement only)
- L. Standard and Special Details
- M. Quality Assurance Review

**Completion time:** The Consulting Engineer hereby agrees to complete preliminary plans suitable for a public information meeting including easement and right-of-way descriptions and drawings (Task I) by **March 13, 2015** and to complete all work necessary to and including preparation of final plans (Task II) by **October 31, 2015**.

**Affinis Corp.**

Supplemental Agreement Two  
Exhibit B

Date: 10/14/2014  
Client: Overland Park, KS  
Project: 159th Street (Nall to Mission)  
Made By: RBF

Tasks	Principal	Project Manager	Sr. Project Engineer	Project Engineer	Design Technician II	CADD Technician II	Land Surveyor II	Land Surveyor I	Survey Crew Member II	Clerical	LABOR COSTS	DIRECT EXPENSES ITEM	COST	TOTAL FEE
<b>TASK 1. PRELIMINARY DESIGN</b>														
<b>1.01 Data Collection</b>														
A Attend Pre-Design Roundabout Meeting		4	4							1	\$ 1,498.00	Mileage	\$ 15.00	\$ 1,513.00
B Modify Design Criteria/Modify Design Memo		2	2		2					1	\$ 1,034.00			\$ 1,034.00
C Develop Detailed Design Schedule		2									\$ 330.00			\$ 330.00
D Schedule & Coordinate Project Activities with City		2									\$ 330.00			\$ 330.00
E Roundabout Operational Analysis		1	1								\$ 357.00	Kittelson	\$ 1,773.00	\$ 2,130.00
<b>1.02 Prepare Field Check Plans</b>														
A Typical Sections		1			2						\$ 415.00			\$ 415.00
B Subsurface Drainage Design		1			4						\$ 665.00			\$ 665.00
C Surface Drainage Design		8		20	20						\$ 6,520.00			\$ 6,520.00
D Plan & Profile Sheets		4	4	40	40						\$ 11,828.00	Kittelson	\$ 9,808.00	\$ 21,636.00
E Taper and Storage Lengths		-2			-8						\$ (1,330.00)			\$ (1,330.00)
F Intersection Layouts														
F1 Standard Roadway Section (159th & Mission Intersection Eliminated)		-1		-6	-6						\$ (1,725.00)			\$ (1,725.00)
F2 Roundabout Intersection Layouts		2		20	30						\$ 6,780.00			\$ 6,780.00
G Preliminary Traffic Control (By Supplemental Agreement Only. See Scope Agreement for Additional Details)											\$ -			\$ -
H Preliminary Traffic Signals														
H1 159th & Mission (Future Design Plan Layouts & Signal Plumbing Plans) ELIMINATED		-2	-3	-8		-16					\$ (3,266.00)			\$ (3,266.00)
I Preliminary Pavement Marking & Signing		1	2	8		16					\$ 2,909.00			\$ 2,909.00
J Cross Sections (25-ft intervals)		2		12	16						\$ 3,950.00			\$ 3,950.00
K Integral Sidewalk Retaining Wall Profiles (By Supplemental Agreement Only)											\$ -			\$ -
L Quality Assurance Review		2									\$ 330.00	Printing	\$ 150.00	\$ 480.00
<b>1.03 Develop Preliminary Opinion of Construction Costs</b>		2		8	10	4					\$ 2,980.00			\$ 2,980.00
<b>Subtotal Phase 1- Hours</b>	0	29	10	94	110	4	0	0	0	2				
<b>Subtotal Phase 1- Cost</b>	\$0.00	\$4,785.00	\$1,920.00	\$12,690.00	\$13,750.00	\$320.00	\$0.00	\$0.00	\$0.00	\$140.00	\$33,605		\$ 11,746.00	\$ 45,351.00
<b>TASK 2. FINAL DESIGN</b>														
<b>2.01 Final Plans</b>														
A Typical Sections		1			6						\$ 915.00			\$ 915.00
B Plan & Profile Sheets		4	4	32	32						\$ 9,748.00	Kittelson	\$ 3,104.00	\$ 12,852.00
C Taper and Storage Lengths		-2		-8							\$ (1,410.00)			\$ (1,410.00)
D Intersection Details														
D1 Standard Roadway Section (159th & Mission Intersection Eliminated)		-1		-12	-12						\$ (3,285.00)			\$ (3,285.00)
D2 Roundabout Intersection Layouts		1		20	20						\$ 5,365.00			\$ 5,365.00
E Ramp Details		2		10	10						\$ 2,930.00			\$ 2,930.00
F Traffic Signal Plans & details														
F1 159th & Mission (Future Design Plan Layouts & Signal Plumbing Plans) ELIMINATED		-1	-2	-8		-16					\$ (2,909.00)			\$ (2,909.00)
G Pavement Marking and Signing		1	4	8		16					\$ 3,293.00			\$ 3,293.00
H Cross Sections (25 foot intervals)		1		16	16						\$ 4,325.00			\$ 4,325.00
I Integral Sidewalk Retaining Wall Profiles (By Supplemental Agreement Only)											\$ -			\$ -
J Preliminary Traffic Control & Construction Phasing Plans (By Supplemental Agreement Only. See Scope Agreement for Additional Details)		2	4	16		32					\$ 5,818.00			\$ 5,818.00
K Cross Sections (25 foot intervals)											\$ -			\$ -
L Standard & Special Detail Sheets		1		4	16	8					\$ 3,345.00			\$ 3,345.00
M Quality Assurance Review		2									\$ 330.00	Printing	\$ 150.00	\$ 480.00
<b>Subtotal Phase 2- Hours</b>	0	11	10	78	88	40	0	0	0	0				
<b>Subtotal Phase 2- Cost</b>	\$0.00	\$1,815.00	\$1,920.00	\$10,530.00	\$11,000.00	\$3,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,465		\$3,254.00	\$ 31,719.00
<b>GRAND TOTAL HOURS</b>	0	40	20	172	198	44	0	0	0	2				
<b>GRAND TOTAL FEE</b>	\$0.00	\$6,600.00	\$3,840.00	\$23,220.00	\$24,750.00	\$3,520.00	\$0.00	\$0.00	\$0.00	\$140.00	\$62,070.00		\$ 15,000.00	\$ 77,070.00