



## **COCHISE COUNTY PROCUREMENT DEPARTMENT**

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**Project Description**                      **Professional Services Agreement**

**Davis Road Drainage at Milepost 5.16, 9.94, 13.10  
Plans, Specifications & Cost Estimate; Environmental  
Permitting, Post Design**

**Administering Agency:**              **Cochise County Community Development Department**

**Agreement No.**                              **11-03-HFP-01**

### AMENDMENT NO.1

THIS AGREEMENT, originally entered into on July 20, 2010, by and between the **County of Cochise** (County) and **Stantec Consulting Services, Inc.**, (Consultant), is amended as follows:

#### **Article I. Scope of Services (Exhibit A)**

Per the Scope of Services incorporated herein as Exhibit A

#### **Article II. Compensation and Method of Payment (Exhibit B)**

- Task 1.0 – 3.0 – Fixed Fee of \$108,374.00
- Task 4.0 – Not to Exceed \$139,818.00 The following services shall be billed at actual charges incurred:
  - RFIs/Design Modifications
  - As Needed Survey Assistance
- Reimbursable Expenses – Not to Exceed \$19,855 – To be itemized and identified separately on invoices per Exhibit C incorporated herein
- Contingencies @15% - Not to Exceed \$37,229, with prior written approval of the Project Manager

**Article III. Contract Duration**

This agreement shall be in effect through August 15, 2015.

With the exception of the above, all other provisions of this agreement shall remain in full force and effect.

**COUNTY OF COCHISE**

**CONSULTANT**

\_\_\_\_\_  
Richard R. Searle  
Chairman

\_\_\_\_\_  
John S. Wise  
Principal

Date: \_\_\_\_\_

Date: \_\_\_\_\_

## EXHIBIT "A"

### SCOPE OF SERVICES AGREEMENT NO. 11-03-HFP-01 AMENDMENT NO. 1

Stantec Consulting Services Inc., proposes to provide consulting services associated with 100% roadway and drainage improvements at mile posts 5.16, 9.94 and, 13.10 along Davis Road between SR 80 near Tombstone and SR 191 near McNeal. The primary objective of this project is to construct reinforced concrete arch culverts at mile posts 5.16, 9.94 and, 13.10 to convey the 25-year storm event under the roadway in order to increase safety and decrease the frequency of road closures. Completion of the Environmental Permitting/Categorical Exclusion approval from ADOT and FHWA is included for MP 9.94. Post Design services for all three culvert locations are also included.

#### **TASKS:**

#### **100% PLANS, SPECIFICATIONS AND COST ESTIMATE; ENVIRONMENTAL PERMITTING**

1. *Progress Meetings:* There will be one meeting to discuss the add service project and monthly progress meetings to discuss specific criteria and review Final (100%) plans prior to submittal, as warranted. Monthly project meeting will be held at Stantec (201 N. Bonita Ave., Tucson, Arizona). –Note: Stantec will be relocating to 5151 E. Broadway, Tucson on or about 10/1/12.
2. *Environmental Permitting:* Completion of CE for MP 9.94: submittal and approval to ADOT and FHWA; including coordination of associated cultural plan and biological study.
3. *Design Plans and Cost Estimate:* Stantec shall prepare 100% plans for MPs 5.16, 9.94 and, 13.10 roadway and drainage improvements. Culvert lengths will be reduced, project limits and the proposed detour will be adjusted on MP 9.9, and guardrail will be used at all three culvert crossing locations. The bid schedule will adhere to ADOT format.
  - a. Construction documents will be prepared to ADOT Local Government Section Criteria.
  - b. Erosion control provisions shall be in accordance with ADOT standards and shall be located in the right-of-way or drainage easements.
  - c. Design plans will include typical sections and other supporting data for the culverts and associated inlet/outlet transition improvements. Special details associated with the large span arch-culverts will be coordinated through an appropriate contractor and provided as necessary.

- d.* Specifications shall be per ADOT Standards. Special Provisions will be per ADOT guidelines. Special Provisions will be provided, as needed, for those additions and revisions required to the ADOT Standard Specifications to accurately reflect the planned contract work. Method of Measurement and Basis of Payment will be per ADOT Standards.
- e.* This task shall include an opinion of probable costs based on items of work and pay units as supported by ADOT Standards. The construction cost opinion will be provided in bid schedule format consistent with construction contract pay items (measurement and basis of payment), item numbers and descriptions that match the ADOT Contracts and Specifications Database.
- f.* Structural design plans and details shall be a component of the construction. Stantec will illustrate and define the requirements for the concrete arch structure(s).
- g.* Drawings shall be prepared at a scale of 1"=40' and on sheets with dimensions of 22" by 34". Standard ADOT cover sheet, and pertinent plan sheets/format will be obtained from and coordinated with ADOT.
- h.* Utility coordination, report, and design.

Preliminary utility research and location identification/mapping had previously been performed in conjunction with the Davis Road Project Assessment.

No existing or new utilities pertaining to water or sanitary sewer have been identified in the project area, as such no design for relocation of these facilities has been included in the Scope of Work. Summarily, no new public facilities requiring access or connection to utility services is anticipated for this project.

The design of roadway improvements for Davis Road will be coordinated with the affected utility companies whom will be separately responsible for design relocation, as necessary, for those utilities. Progress plan submittals will be made to utility companies as part of this effort.

At Milepost 5.16, El Paso (Kinder Morgan) Gas was located during the 60% stage. The potholes indicated that modifications will be required to protect the two existing 10" lines in place. Design modifications and coordination with Kinder Morgan will continue through final documents.

- i.* 100% Design plans and cost estimate.

Upon the full resolution of all design issues and at the direction of the ADOT Project Manager a 100% submittal will be made and include final construction plans, final special provisions, and a final detailed opinion of construction cost. Final drainage report will be prepared addressing drainage analyses and calculations for all three culvert locations.

The submittal will include final reproducible sealed plans and contract document originals, final reproducible special provisions, electronic CADD drawings, CD/DVD containing all plans in pdf format, final quantities summaries and cost estimates, estimate of contract time and construction, approved environmental permits (as applicable), final earthwork quantities, and final drainage report. All final plan sheets shall be printed on Mylar.

**Design Considerations:**

MP 5.16: KM/EP Gas Line

MP 5.16: ASLD ROW acquisition

MP 9.94: Cultural and Biological Clearance

MP 9.94: CE submittal and approval – ADOT and FHWA

MP 9.94: ASLD ROW acquisition and Detour Plans

All MPs: Provide revised ‘scope of work’ for PA – separate letters for each MP

*j.* Survey – MP 9.94 ROW and Detour Legals

Descriptions of the proposed new 200-foot wide right-of-way will be prepared for this location, inclusive of exhibits. It is anticipated that three (3) separate descriptions will be required. These descriptions will be prepared in accordance with the “Arizona Boundary Survey Minimum Standards” as established in the Code and Rules of the Arizona State Board of Technical Registration. The Client will be responsible for preparing any instruments of conveyance that may be required and for the recording of such documents with the Cochise County Recorder.

This scope excludes any parcel splits and record-of-survey drawings that may be required in connection with the new right-of-way.

**DELIVERABLES:**

- ✓ 100% plans for MPs 5.16, 9.94, 13.10
- ✓ CE Report for MP 9.94
- ✓ One Mylar copy of plans; final specifications and cost estimates; and electronic copy of submitted materials (drawings will be in appropriate AutoCAD format and will not be write-protected).
- ✓ Three copies of final drainage report.

**ASSUMPTIONS/EXCLUSIONS:**

The following items are not anticipated, and have not been included as part of this Scope of Work (may be provided as additional services):

- ✓ Land acquisition, recordation of drainage easements.
- ✓ Geomorphic/sediment transport analyses and models
- ✓ FEMA CLOMR/LOMR
- ✓ Submittals will be forwarded to ADOT (standard distribution list) through Cochise County; Stantec will coordinate all review comments through

Cochise County and the ADOT Local Government Section Project Manager.

**POST DESIGN SERVICES: for each Mile Post, except as noted**

1. Meetings
  - Attend ADOT Partnering and Post-Partnering meetings – one each
  - Field Visits (2)
  - ADOT/Utilities Project Coordination (3) – assume meetings will be held in Southern AZ
  
2. As-Built Drawing Preparation
  - Stantec will prepare As-Built “Record Drawings” based on redlines provided by ADOT. PDFs of the record drawings will be provided to ADOT/Cochise County.  
The fee is based on minimal revisions to each sheet.
  
3. Request for Information

Reviewing and responding to Requests for Information (RFI) generated by the Contractor, assist the County with issues as they arise during construction – including plan modifications as applicable. Assumes up to 8 RFIs for MPs 5.16 and 9.94, and 10 RFIs for MP 13.10 per the hours included in the budget.
  
4. Post-design survey services will include, at a minimum, the following items:
  - Provision of survey control points and benchmarks
  - Provide staking for limits of disturbance and avoidance – cultural area at MP 9.94
  - Location of Kinder Morgan pipeline – MP 5.16
  - As-Needed Survey – provide survey services as requested/directed by Cochise County/ADOT – per the proposed budget.

## **ASSUMPTIONS**

### 1. Client Provisions

- Advance notice of Survey work requests of at least 48 hours minimum.
- Two complete current sets of construction plans, all supplements, modifications, and addenda. One set for office and one for field crew.

2. All of the above scoped staking services are to be provided on a one-time basis. Additional work or re-staking will be covered by Item (04) Additional Services.

3. Our office staff or field crew chief must be notified immediately if any discrepancies or inaccuracy in stakes is suspected. If notification is not given and we are not afforded the opportunity to either verify or correct these discrepancies or inaccuracies, we shall accept no responsibility or liability for those items. Any questions regarding the accuracy of the construction layout will not be considered unless the reference points from which the layout occurred are preserved intact in their original and undisturbed state.

4. This survey proposal is based upon completion of scoped items as a unit whole per Mile Post project, not being segmented, phased or broken up into multiple un-scheduled trips. Situations out of our control (i.e. contractor not ready for survey after scheduled crew arrives, site/work area not accessible or ready for staking) not allowing Stantec to perform these duties in a methodical, productive manner will result in additional charges for partial work performed beyond proposed scoped costs.



# EXHIBIT "B" FEE SCHEDULE AGREEMENT NO 11-03-HFP-01 AMENDMENT NO.1

Cochise County-Davis Road Drainage Crossings @ Mileposts 5.16, 9.94, 13.10: Detailed Breakdown of Not To Exceed Fee (October 2012)

Add Service - 100% Plans, Specifications, Cost Estimate; Environmental Permitting; Post Design

STAGE & TASK DESCRIPTION	Project Professional Who		Project Manager Mosko	Team Lead SADD	Team Design	Survey BM Field/Office	Survey Crew Field	Senior Hydrographical	Hydrologist	ALLOCATED HOURS	Project Estimator	DraftCAD Desktop	Clerical Support	Total Hours	Engineering Fee Estimate	Task Subtotal
	2010 Hourly Rate	\$														
Partnering and Post-Partnering Meetings	12	\$100	12													
Field Visits (2)	24		24													
As-Builts	6		6													
RFI/Design Modification	6		12													
Survey																
Cultural Area Staking																
Set Control Points and BMs																
As-Needed Survey Assistance																
ADOT/Utilities Meetings (3)	9		12													
<b>MP13.10</b>																
Partnering and Post-Partnering Meetings	12		12													
Field Visits (2)	24		24													
As-Builts	6		6													
RFI/Design Modification	6		12													
Survey																
Set Control Points and BMs																
As-Needed Survey Assistance																
ADOT/Utilities Meetings (3)	9		12													
<b>Task 1.0 Through 4.0 Column Totals:</b>	<b>76</b>		<b>82</b>	<b>130</b>	<b>320</b>	<b>32</b>	<b>60</b>	<b>4</b>	<b>30</b>	<b>0</b>	<b>54</b>	<b>20</b>	<b>12</b>	<b>826</b>	<b>\$248,192</b>	<b>\$48,434</b>

**TASK 1.0 thru 4.0 = \$248,192**  
**EXPENSES @ 8% = \$19,855**  
**CONTINGENCIES @ 15% = \$37,229**  
**STANTEC Not To Exceed FEE = \$305,276**

**EXHIBIT "C"**

**REIMBURSABLE EXPENSES  
AGREEMENT NO. 11-03-HFP-01  
AMENDMENT NO. 1**

Car Rental at Stantec Enterprise Customer Rates (Customer # XZ32157)

Mileage @ 55.5 cents per mile

Reproduction costs per pricing sheet dated April 6, 2012

Postage & Shipping if needed

\*Documentation to be provided upon request