

AMENDMENT TO AGREEMENT BETWEEN
CITY OF RENO, CITY OF SPARKS
AND HDR ENGINEERING, INC.

This Amendment, made this _____ day of _____, 2015, by and between Stantec Consulting Services, Inc., herein referred to as "ENGINEER" and CITY OF RENO and CITY OF SPARKS herein referred to as "CLIENT", hereby amends the Agreement between ENGINEER and CLIENT made and entered into on November 6, 2013, herein referred to as Basic Agreement:

WHEREAS, CLIENT and ENGINEER entered into an Agreement for services on November 6, 2013 for engineering and support services for the TMWRF Nitrification System Control Valve Replacements and Vault Construction Project, referred to as "Project";

WHEREAS, the CLIENT has requested additional engineering design and support services for the Project;

Now, therefore CLIENT and ENGINEER for considerations hereinafter set forth, mutually agree as follows:

ARTICLE I – SERVICES is amended to add the following sentence:

ENGINEER is subject to NRS 338.010 – 338.090 (prevailing wage) for all covered work.

ARTICLE II – SCOPE OF SERVICES is amended as follows:

The Scope of Services is set forth in Exhibit A which attached hereto and incorporated herein by this reference. Exhibit A consists of 8 pages.

ARTICLE III – COMPENSATION is amended as follows:

Compensation to the ENGINEER for the engineering services performed in accordance with Exhibit A and this Amendment is on a time and materials basis as set forth in Exhibit B which consists of 2 pages at the rate set forth in Exhibit C which consists of 2 pages. The total sum not to exceed for the amendment is \$57,744.00. The City of Reno's share is the sum of \$39,629.71 and the City of Spark's share is the sum of \$18,114.29.

- D. The budget for total charges for services authorized by this Amendment to Agreement is \$494,244.00 and shall not be exceeded without authorization of the CLIENT. The City of Reno's share is the sum of \$339,199.66 and the City of Spark's share is the sum of \$155,044.34. The budget may be increased by amendment hereto if necessitated by a change in scope of services which increases the cost of providing the services. ENGINEER is not authorized to provide any additional services beyond the scope of work without having authorized funding pursuant to a written amendment hereto.

ARTICLE IV – SCHEDULE OF WORK – is hereby amended as follows:

ENGINEER will proceed in accordance with the schedule of work as set forth in Exhibit A attached hereto and incorporated herein by this reference.

The terms of the November 6, 2013 Basic Agreement are incorporated herein by this reference, unless inconsistent with the terms set forth herein or unless otherwise stated. If there are any inconsistencies, the terms specified above shall prevail.

IN WITNESS WHEREOF, CLIENT has caused these presents to be executed by its officers hereunto duly authorized and the ENGINEER has subscribed same, all on the day and year first above written.

CITY OF RENO, NEVADA

By: _____
Hillary L. Schieve, Mayor

ATTEST:

Reno City Clerk

APPROVED AS TO FORM:

By: _____
Susan Ball Rothe
Deputy City Attorney

HDR Engineering, Inc.

By: _____
Ruedy Edgington, P.E.

CITY OF SPARKS, NEVADA

By: _____
Geno Martini, Mayor

ATTEST:

Sparks City Clerk

APPROVED AS TO FORM:

By: _____
Sparks City Attorney

EXHIBIT A SCOPE OF SERVICES - Amendment

City of Reno and Sparks *Truckee Meadows Water Reclamation Facility Nitrification System Control Valve Replacements*

PROJECT UNDERSTANDING

The bids received by City of Reno and Sparks (CITY) on September 18, 2014, for the TMWRF Nitrification System Control Valve Replacements and Vault Construction Project exceeded the project budget by approximately \$780,000. Some of the factors that resulted in the increased cost include:

- Plant shut down limitations and restrictions needed to construct the piping and vaults
- Depth of vaults and close proximity to existing utilities is challenging and costly to construct
- Limited number of local interested and capable contractors resulted in just two bids

Due to existing budget constraints, Truckee Meadows Water Reclamation Facility (TMWRF) would like to re-design and bid the project around replacement of the existing valves with direct buried, electric actuated valves. It is expected that removal of the concrete valve vaults and associated piping will significantly reduce construction costs.

However, the valves associated with Tower 3 are in the traveled way, and as such will still require a vault. The design for this vault will be modified to reflect keeping the upstream 36-inch and 24-inch valves in place to reduce demo and piping costs. Note that direct bury of the valves at the other towers will only slightly reduce the number and/or length of shutdowns.

To further reduce costs, TMWRF staff has decided NOT to replace the existing 30-inch electric actuated valves on Towers 5 and 6 at this time, since they were constructed in 2002 and have not had any problems. Also, TMWRF staff agrees that the 36-inch upstream valves (closest to the Towers) are redundant, and do not require removal or replacement at this time.

The following Scope of Work is for design and bid assistance of the valves covered in the original Phase I project only. The remaining valve replacements and miscellaneous scope items will be designed and constructed in Phase II.

SCOPE OF WORK

Task 1 - Project Management, Quality Assurance/Quality Control (QA/QC), and Meetings

This task includes the management activities required to ensure the project is completed on time and within budget, and addresses the CITY'S concerns. CONSULTANT will prepare invoices and progress reports on a monthly basis. The monthly progress reports will summarize budget and schedule status in measurable terms. Other activities include scheduling of staff and coordinating the quality assurance effort. To ensure objectivity, senior technical staff, not immediately involved in the project, will perform internal QA/QC of deliverables before they are submitted to the CITY.

CONSULTANT anticipates the following meetings with CITY staff during the project design:

1. 100% Design Review – discussion and review of 100% design plans. Comments incorporated into Final design submittal.
2. Final Design Review - discussion and review of Pre-Final design plans. Comments incorporated into Final design submittal.
3. Miscellaneous

Deliverables: Meeting agenda and minutes, and monthly invoices and progress reports.

Task 2 – Design and Permitting Services

Subtask 2.1 – 100% Phase I Contract Drawings and Specifications

2.2.1 – Contract Drawings

Based on the meeting minutes from November 18, 2014, conference call on December 15, 2014, and subsequent correspondence, CONSULTANT will re-design the Phase I project for direct buried valves at Towers 1, 5, and 6, and a valve vault at Tower 3.

The direct bury valves will be replaced in their existing locations, so that no vaults are required at Towers 1, 5, and 6. Flanged coupling adapters will be required to facilitate removal and replacement of the valves.

The vault at Tower 3 will be similar to the previous Vault 5 design, with the exception that the existing 36-inch and 24-inch upstream valves will remain in place to limit demolition, paving, and pipe replacement costs, as well as provide easy isolation points for the contractor.

The valves at Towers 1 and 3 will be base bid items, along with the 24-inch valves at Towers 5 and 6. The remaining valves at Towers 5 and 6 will be alternate bid item(s). The following table shows a list of drawings anticipated for the project:

List of Drawings Anticipated for the Project		
No.	Sheet No.	Drawing Description
General		
1	G-01	Cover Sheet & Vicinity Maps
2	G-02	Abbreviations
3	G-03	Symbols
4	G-04	Overall Site Plan
5	G-05	Site/Key Plan
Demolition		
6	D-01	Demolition Plan Towers 1 and 3
7	D-02	Demolition Plan Towers 5 and 6
Civil		
8	C-01	Site Plan Towers 1 and 3
9	C-02	Site Plan Towers 5 and 6
10	C-03	Details - 1
11	C-04	Details - 2
12	C-04	Details - 3
Structural		
13	S-01	Structural General Notes and Special Inspection Notes
14	S-02	Typical Concrete Details
15	S-03	Typical Reinforcing Details
16	S-04	Standard Metal Details
17	S-10	Vault Plan and Sections
Electrical		

List of Drawings Anticipated for the Project		
No.	Sheet No.	Drawing Description
18	E-01	Symbols & Legends
19	E-02	Details
20	E-03	Control Diagram & MCC Elevation
21	E-10	Single Line Diagram
22	E-11	Site Plan – Towers 1 and 3
23	E-12	Site Plan – Towers 5 and 6

The above sheets will include the design necessary for construction of seven (7) electric actuated buried valves, two (2) exposed valves, and four (4) vaulted valves per the following schedule.

Valve Replacement Schedule		
Tower	Valve Size (in)	Comments
Base Bid		
1	36	<i>Difficult to operate, no stops, leaks</i>
1	30	
1	24	
3	36	<i>Valve Vault</i>
3	36	<i>Valve Vault</i>
3	30	<i>Valve Vault</i>
3	24	<i>Valve Vault - Leakage</i>
5	24	<i>High concern of failure</i>
6	24	<i>High concern of failure</i>
Alternate Bid		
5	36	
5	30	<i>Exposed Splitter Box Isolation Valve</i>
6	36	
6	30	<i>Exposed Splitter Box Isolation Valve</i>

Drawings will be prepared for 22"x34" full size, and 11"x17" half size sheets, to HDR CAD standards. See attached figures for valve replacement locations.

2.2.2 - Technical Specifications

Technical specifications will be prepared in Construction Specifications Institute (CSI) MasterFormat 1995 (5 digit numbering/16 divisions). This task includes revision of the specifications to correct discrepancies with the previous design. Front-end contract documents provided by the CITY will be prepared by CONSULTANT. CONSULTANT will prepare the following technical specification sections at the 100% and Final design levels:

Division 1

01025	Measurement and Payment
01060	Special Conditions
01200	Requests for Information (RFI)
01340	Submittals
01342	Operations and Maintenance Manuals
01560	Environmental Protection and Special Controls
01600	Product Delivery, Storage, and Handling
01601	Job Conditions
01710	Cleaning
01720	As-Built Documents
01800	Openings and Penetrations in Construction

Division 2

02072	Demolition, Cutting, and Patching
02200	Earthwork (Utilities)
02240	Dewatering
02513	AC Paving

Division 3

03108	Formwork
03151	Anchorage to Concrete
03208	Reinforcement
03308	Concrete Materials and Proportioning
03311	Concrete Mixing, Placing, Jointing, and Curing
03348	Concrete Finishing and Repair of Surface Defects
03350	Testing
03431	Precast Concrete

Division 5

05120	Structural Steel
05131	Structural Aluminum
05505	Metal Fabrications

Division 7

07720	Vault Hatches
07900	Joint Sealants

Division 9

Painting & Protective Coatings

Division 10

10400	Identification Devices
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Division 11

11005 Equipment: Basic Requirements

Division 13

13440 Instrumentation for Process Control: Basic Requirements

13446 Control Auxiliaries

13448 Control Panels and Enclosures

Division 15

15060 Pipe and Pipe Fittings: Basic Requirements

15061 Pipe: Steel

15064 Pipe: Plastic

15100 Valves: Basic Requirements

15113 Butterfly Valves

15183 Pipe, Duct and Equipment Insulation

Division 16

16010 Electrical: Basic Requirements

16060 Grounding

16080 Acceptance Testing

16120 Wire and Cable: 600 Volt and Below

16130 Raceways and Boxes

16140 Wiring Devices

16410 Safety Switches

16490 Overcurrent and Short Circuit Protective Devices

Deliverables:

- *PDF files of drawings and technical specifications.*
- *Engineer's opinion of probable construction cost.*

Subtask 2.2 - Final Contract Drawings and Specifications

CONSULTANT will provide Final Drawings and specifications based on the 100% design submittal review comments.

Deliverables:

- *Four wet stamped copies of the Final construction drawings (22" x 34") and specifications for CITY and permit review and approval. PDF files of plans and specifications.*
- *Two completed sets of final construction documents (one unbound master for reproduction).*
- *One computer disk with PDF, word, and AutoCAD files of the contract documents.*
- *Engineer's opinion of probable construction cost.*

Subtask 2.3 – Permitting Assistance

CONSULTANT will prepare and file the following permit application for the project.

- Nevada Division of Environmental Protection (NDEP). This includes:
 - Submission of plans and specifications to NDEP for review and approval.

The CITY/TMWRF will pay any permit fees. CONSULTANT will respond to and address permitting agency comments.

Deliverables: Information for permit applications, and meeting agenda and minutes.

Task 3 – Bid Assistance

Subtask 3.1 – Pre-Bid Meeting

CONSULTANT will attend pre-bid meeting and prepare agenda.

Deliverables: Pre-bid meeting notes.

Subtask 3.2 - Bid Period Services

CONSULTANT will provide the following services:

- Respond to bidders questions and prepare contract clarifications and addenda.
- Attend bid opening.
- Review and summarize bids, provide recommendation for award.

Deliverables: Up to four project addenda. Bid Tabulation and recommendation for award.

Subtask 3.3 – Conformed For Construction Documents

CONSULTANT will incorporate the contract changes by addendum into a Conformed for Construction set of contract documents, to provide to the CITY.

Deliverables: 10 sets each of full and half size Conformed drawings and contract documents.

ITEMS TO BE FURNISHED BY THE CITY/TMWRF

- Access to the treatment plant facilities, as requested by HDR staff.
- City of Sparks Building Permit

EXCLUSIONS

The following items are not included in CONSULTANT'S scope of work:

- Phase II Design
- Construction Management Services

EXHIBIT B
COMPENSATION-Amendment

City of Reno and Sparks
Truckee Meadows Water Reclamation Facility
Nitrification System Control Valve Replacements

Work will be performed on a time and materials basis for a not-to-exceed fee shown in Table 1.

This amount will not be exceeded without prior written authorization.

A rate schedule with expenses is included in Exhibit C.

Table 1 - Estimated Work Effort and Cost - Amendment 1

City of Reno and Sparks, NV

TMWRF NTF Valve Replacement - Phase I

12/17/2014

Task No.	Task Description	Principal/ QA/QC	PM/Senior Civil Engr	Struct Engr	Elec Engr	Civil Engr	CADD Tech.	Project Controller	Project Coord	Total HDR Labor Hours	Total HDR Labor (\$)	Total HDR Tech Charge (\$)	Subs (\$)	Expenses (\$)	Total Cost (\$)
Task 1 - Project Management, Quality Assurance/Quality Control, & Meetings															
1.1	Project Management	2	8					4	4	18	\$2,676	\$67			\$2,743
1.2	QA/QC Program (includes review of all submittals)	10	2						2	14	\$2,804	\$52			\$2,856
1.3	Project/Review Meetings (up to 3)		12		4	12				28	\$4,782	\$104		\$160	\$5,046
	Subtotal Task 1	12	22	0	4	12	0	4	6	60	\$10,262	\$222	\$0	\$160	\$10,544
Task 2 - Design & Permitting Services															
2.1	100% Phase 1 Contract Drawings and Specifications	2	30	8	16	40	70	0	8	174	\$25,788	\$644		\$200	\$26,632
2.2	Final Contract Drawings and Specifications		16	4	4	24	40		4	92	\$12,966	\$340		\$300	\$13,606
2.3	Permitting Assistance		2			6				8	\$1,207	\$30		\$400	\$1,637
	Subtotal Task 2	2	48	12	20	70	110	0	12	274	\$39,961	\$1,014	\$0	\$900	\$41,875
Task 3 - Bid Assistance															
3.1	Pre-Bid Meeting		6			6			2	14	\$2,045	\$52			\$2,097
3.2	Bid Period Services (up to 4 addenda)	2	24	4	4	24	24		4	86	\$12,890	\$318		\$200	\$13,408
3.3	Confirmed Documents		4			6	8		4	22	\$2,817	\$81		\$840	\$3,738
	Subtotal Task 3	2	34	4	4	36	32	0	10	122	\$17,752	\$451	\$0	\$1,040	\$19,243
	COLUMN TOTALS	16	104	16	28	118	142	4	28	456	\$67,975	\$1,687	\$0	\$2,100	\$71,762

2014-12-5 REMAINDER \$ 14,018
MODIFICATION AMOUNT \$ 57,744

EXHIBIT C RATE SCHEDULE

**HDR Engineering, Inc.
STANDARD RATE SCHEDULE
January – December 2015**

**City of Reno & Sparks
*Truckee Meadows Water Reclamation Facility
Nitrification System Control Valve Replacements***

Drafter I	\$94
Drafter II	\$100
Drafter III	\$118
Drafter IV	\$125
Electrical Engineer I	\$160
Electrical Engineer II	\$182
Electrical Engineer III	\$225
Electrical Engineer IV	\$266
Mechanical Engineer I	\$167
Mechanical Engineer II	\$205
Principal	\$215
Technical Specialist I	\$208
Technical Specialist II	\$235
Technical Specialist III	\$255
Technical Specialist VI	\$285
Project Engineer I	\$137
Project Engineer II	\$150
Project Engineer III	\$162
Project Engineer IV	\$167
Project Engineer V	\$176
Project Engineer VI	\$194

Staff Engineer I	\$68
Staff Engineer II	\$92
Staff Engineer III	\$106
Staff Engineer IV	\$116
Staff Engineer V	\$126
Structural Engineer I	\$134
Structural Engineer II	\$155
Structural Engineer III	\$240
CADD Technician I	\$134
CADD Technician II	\$150
Project Controller I	\$86
Project Controller II	\$125
Project Controller III	\$135
Project Controller IV	\$144
Project Coordinator I	\$52
Project Coordinator II	\$75
Project Coordinator III	\$85

Please Note: Rates include current overhead rate plus profit and are adjusted annually

EXPENSES:

In-house Expenses:

Technology Charge per Direct Labor Hour	\$3.70
Vehicle Mileage (Per Mile)	FTR – Federal
Color Copy (per copy)	\$0.75 to \$1.50
Photocopies (per copy)	\$0.10 to \$0.20
Bond Plotting – B&W (per square foot)	\$0.14
Bond Plotting – Color (per square foot)	\$0.50
Vellum – B&W (per square foot)	\$0.50
Mylar – B&W (per square foot)	\$0.90

*Please Note: Technology charges include computer, CADD, network, software, and other related technology services.
Expense and Subconsultants are charged with a five percent mark up.*