

SCOPE OF WORK

Specifications for a Comprehensive Historic Context for Four Historic Properties For the Ash Creek Project Washington County, Utah Washington County Water Conservancy District

Schedule of Items

Development of historic contexts and selective reconnaissance survey of four historic properties to assist the Washington County Water Conservancy District (WCWCD) to comply with its legal requirements related to certain proposed federal actions that may occur in Washington County, in accordance with all terms and conditions of this Statement of Work. The Project Area includes BLM-Managed Public Lands, State of Utah Lands and Private Land in Ash Creek Valley, Washington County, Utah.

Description / Objectives / Scope of Work

I. Background

The WCWCD requires assistance with the development of historic contexts for four historic properties that will be adversely affected by the Ash Creek Project (Ash Creek Pipeline & Toquer Reservoir Recreation Plan) proposed project. The project would construct a primary pipeline, two collector pipelines, expand a holding pond, upgrade diversion feature, construct reservoir (with recovery wells), and connection pipeline to Toquerville water system.

Four associated Cultural Resource Inventories were completed between 2008-2013. A total of 64 archeological sites were identified. Four eligible historic period sites, 3 historic roads and 1 historic irrigation ditch (42WS3709, 42WS3715, 42WS4099, 42WS5156) are the focus of this Statement of Work (SOW). They are located on private, Bureau of Land Management (BLM) and Utah School and Institutional Trust Lands Administration (SITLA) lands. The three roads to be treated here are early manifestations of original wagon road alignments and early automobile roads through Ash Creek Valley and on to other settlements in the greater Virgin River drainage area. The ditch is along South Ash Creek pipeline corridor is thought to have been constructed between 1863 and 1869, falling into the early category of irrigation.

A Treatment Plan was developed in 2014 with consultation and concurrence from the Utah State Historic Preservation Office (USHPO), the Paiute Indian Tribe of Utah (PITU) and the Shivwits Band of Paiute Indians. The Treatment Plan is provided here as Appendix A as it provides the foundation for this Statement of Work. The developed treatment will lessen to the maximum extent the adverse nature of the effects resulting from the proposed federal actions which may include the construction of a water storage reservoir and associated facilities by the WCWCD and a patent of public lands to the WCWCD through an Recreation and Public Purpose (RP&P) lease. The data acquired through the Treatment Plan will be used for compliance with relevant federal laws, including the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA).

Historic properties and cultural resources are defined as those fragile and nonrenewable remains of human activity, occupation, or endeavor, including both prehistoric and historic remains, representing a part of the continuum of events from the earliest evidence of people to the present day. These resources consist of: (1) physical man-made artifacts, features, structures, and sites; (2) areas where significant events

occurred, even though evidence of the event may no longer remain; and (3) the environment immediately surrounding the actual resource.

II. General Description of the Project Area

The Project Area is located between the eastern foothills of the Pine Valley Mountains and the Hurricane Cliffs in the Ash Creek drainage. This area is a drainage basin that includes Ash Creek, Leap Creek, Wet Sandy, and South Ash Creek . The topography to the north is rugged, steep canyon slope to basalt covered mesas and rolling sand dunes in the south.

The above is provided as information only and should not necessarily be used as the basis for formulating a proposal or serve in place of the offeror's due diligence. It is the offeror's responsibility prior to submitting a proposal to inspect the Project Area and conduct a review of available literature to resolve any concern over the nature and extent of potential difficulties regarding terrain, site density, site size, vegetation density, ground cover, boundaries, access and/or any other factors which may affect the offeror's proposal. If the offeror is unfamiliar with the project location, it is strongly recommended that a site visit be conducted.

III. Government Furnished Property

The Government will provide shapefiles of the survey areas and previously recorded archeological sites to the Contractor at the pre-work meeting. The government will also provide copies of relevant reference materials.

IV. Contractor Furnished Property

The Contractor shall furnish all other equipment and materials necessary to complete this project. The Contractor shall supply the necessary qualified personnel, materials, equipment, and facilities to conduct Class III survey areas. The contract period shall be 180 calendar days starting from the day in which the contract is awarded and with an anticipated period of performance through the spring and summer of 20202021. Draft report and site forms shall be submitted to the BLM WCWCD at least at least 60 days prior to the end of the contract. Within 30 days of being awarded the contract, the contractor must attend a pre-work meeting with the WCWCD and SGFO BLM staff, Contracting Officer (CO) and/or POC.

V. Administration, Supervision and Personnel

The Contractor shall be required to hold a valid BLM-Utah Cultural Resource Use Permit and all key personnel shall be listed on that permit; substitutions will not be allowed without written permission from the WCWCD.

All work shall be performed in accordance with the Secretary of the Interior's *Standards and Guidelines for Archaeology and Historic Preservation* and specifically the *Standards for Architectural and Engineering Documentation*. The Project Lead or Principal Investigator (PI) shall meet Secretary of the Interior's *Professional Qualification Standards* for Historical Documentation, Architectural History, Architecture, and/or Historic Architecture.

The Contractor is responsible for all phases of the work and for the quality of deliverables. The Contractor must be able to demonstrate competence in successful project administration and completion. Such demonstration may include the following: 1) a record of successful completion of similar projects or the types of projects with comparable scope and complexity; or 2) a record of responsibility at the PI level in the successful completion of similar projects.

The Contractor shall submit a list of key personnel who will be involved with the project. Key personnel are defined as Principal Investigator, Project Director, Field Director, and Crew Chief(s). Resumes should be provided verifying their qualifications and past experience with cultural resources in the region, which is defined as southwestern Utah, southern Nevada, and northwestern Arizona. Resumes of personnel will be supplied and credentials must be approved of all personnel prior to commencement of field work. All key personnel must meet the basic minimum qualifications described in the following Statement of Work.

VI. Objective

The objective of this contract is to conduct develop a historic context for four historic period linear archeological sites:

- Update existing site records, which consists of detail recording sites (especially as they pass through the project area), a physical description of them including plotting and photographs of any associated features, and a summary of all artifacts that may be found.
- Develop a history of each site, this may include volunteer informant testimonies, published histories, official records, special collections, and historic maps and photographs.
- Produce a public project, this includes photographs and text that can be utilized to design plaques, signage and interpretative kiosks at the proposed reservoir location. Additionally, a public presentation should be created that can be used to give presentations to local schools, historical societies, and BLM brown bag sessions.

The results of the work covered by this statement of work will be used in the BLM-SGFO current and future decision-making processes, and to fulfill other federal legal requirements, including those under Sections 106 of the NHPA.

VII. Statement of Work

a. General

The Contractor shall conduct a Class II Selective Reconnaissance Inventory standards in *Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation* (48 FR 44716, September 29, 1983), of the four historic archeological sites. This requires the contractor conduct field work to physically record/update the existing site records using the Utah Archeological Site Form (UASF). All previously documented sites will be evaluated against the criteria for listing to the National Register of Historic Places.

The contractor shall establish a history for each site following the themes established in the Treatment Plan (transportation, immigration, and irrigation). This includes conducting extensive research and investigation of existing archives, special collections, publication, official records, map, photographs, and aerial imagery. The contractor should investigate whether informants with personal knowledge of these resources can be found and interviewed.

Following the established historic themes, the contractor shall produce raw data, graphics, templates, and presentations of finding to be used for public education

purposes. Interpretative panels and kiosks are planned for installation at the proposed reservoir location to educate the public on the history of use, and the people and lifeways that modified the landscape.

b. Conduct Class II Selective Reconnaissance Survey, Preparation of Site Histories, and Public Education Products

(1) Each field crew shall be supervised by a qualified Field Supervisor. A Field Supervisor must have completed one academic year of graduate level education in anthropology, archeology, history, historic architecture, historic preservation, or an equivalent of training and experience. In addition, a Field Supervisor must have a minimum of 12 months professional experience and/or specialized training in archaeological field work. This experience shall have included at least six months of work in Great Basin and Southwest, with a portion of that experience occurring in Southern Utah. Experience in the identification and documentation of material culture associated with Great Basin and Southwestern aboriginal groups during all cultural periods, and particularly Anglo-American local history including exploration, settlement, farming/ranching and industry is required. Crew personnel should have at least 6 months of general experience in the techniques, procedures and methods of archaeology, and at least half of that experience in the Great Basin and Southwest. A BS/BS degree in archaeology or anthropology is recommended.

(2) The BLM will provide ArcMap shapefiles of the Project Area and the four individual archeological sites to the Contractor prior to the start of fieldwork. The Contractor shall import the ArcMap shapefiles into a GPS unit to precisely locate the boundaries of the Project Area and the individual site locations. They will not be flagged by BLM.

3) Physical Description Narrative Utah Archeological Site Form (UASF)

- Complete narrative describing the historic properties and their physical characteristics. The narrative should document the evolution of the roads ditch, including associated features, describing major changes since its construction or period of significance.
- Describe all character defining features, including the landscape. Determine whether each resource does or does not contribute to the historic significance of the property. List and describe salient characteristics of all associated features that significantly contribute to the physical character and historic significance of the roads and ditch. Document the evolution of the contributing and non-contributing associated features, their current conditions, and causes of deterioration (based on documentary research and physical examination). Compile documentation and create a count for the contributing and non-contributing resources. The documentation must include photographs representing each resource. Views must include buildings, structures, features and important landscape features and patterns.
- Summarize modifications to the roads and ditch, include substantial events such as expanding bridges, the addition of pullouts, addition of major features, large scale paving, repairs, and realignments.

4) Site re-recording using Utah Archeological Site Form (UASF); thus, replacing IMACS, and relevant attachments.

- Detail site sketch maps shall be completed for all newly recorded sites and appropriately updated for previously recorded sites. Site maps may be done with GPS technology and shall include the site boundary, all artifact concentrations, diagnostic artifacts, important individual artifacts, tools, structures, or features. Detail maps of individual features or parts of a site may be required for large or complex sites. Detail maps shall also include a north arrow, scale bar, legend, as well as geographic details of the site area, including all pertinent land features and prominent contours. A site datum shall be established, mapped using GPS, and depicted on the detail map.
- The Contractor shall collect GPS data in the field for previously recorded sites revisited. Site boundaries shall be documented as a polygon or a polyline, as appropriate, with actual polygon mapping of boundaries preferred. A polyline may be mapped for linear sites, except when any portion of the linear site varies substantially in width. If this occurs, the linear site shall be mapped as a polygon. If a polyline is recorded, the mapped polyline shall be buffered using GIS to approximate the linear site width. Polygon and polyline shape files shall be submitted with theme attribute tables appropriately completed. GPS locations of site datums shall be obtained for all sites, as well as any notable artifacts, artifact concentrations, or features within a site. These internal site characteristics may be mapped as points, lines, or polygons, as appropriate.
- All diagnostic artifacts shall be illustrated or digitally color photographed and mapped to maintain provenience. At previously recorded sites, only newly discovered diagnostic artifacts need to be documented. However, observations should include whether previously recorded diagnostic artifacts were relocated. Artifacts shall be deemed "diagnostic," either chronologically or functionally (e.g., projectile points, ceramics, scrapers, drills, and ground stone). Diagnostic historic artifacts can include bottles, glass, cans, ceramics, artifacts with identifiable markings that can be researched. All temporal information provided by the artifacts shall be recorded on the UASF form. The provenience of all surface diagnostics and tools shall be indicated on the site sketch maps. Artifact collection is not authorized by this contract.
- At least two digital color photographs, displaying different aspects, shall be taken of each site newly recorded and revisited. An overall site photo is required, and pertinent diagnostic artifacts shall be photographed or illustrated. All petroglyphs, pictographs, historic inscriptions, stone features, foundations, and unusual features shall be digitally photographed in color. Non-diagnostic isolated finds do not require photos. A photo log shall be completed and included with each UASF site record. All digital photos included with the site form shall be labeled to include site number, direction and description. All digital color photographs shall be submitted as a deliverable with the final report.
- Each re-recorded cultural resource site shall be evaluated for inclusion in the National Register of Historic Places (NRHP), as set forth in 36 CFR Part 60 and discussed in the National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation. No artifact collection or testing of sites shall be conducted to make the eligibility determination. Unevaluated determinations of site eligibility are unacceptable.

A comprehensive evaluation includes a discussion of site significance and aspects of integrity. The Contractor shall make recommendations concerning site eligibility. The recommendation must include a justification for site historic context and significance and if significant, under what criteria (A, B, C, or D). For those properties evaluated as satisfying criterion “d”, the Contractor shall describe the data sets that are present on site and the research domains or questions could be addressed by those data sets. The recommendation must also include an evaluation of integrity, which is the ability of a site to convey its significance. The NRHP recognizes seven aspects that define integrity (location, design, setting, materials, workmanship, feeling, association). The evaluation should identify what aspects of integrity the site retains or lacks. All eligibility recommendations should conclude with a discussion of how the relationship of significance and integrity together determined the recommended NRHP status.

Determinations of eligibility will be made by the BLM, in consultation with the SHPO, based on the information provided by the Contractor.

5) Historical Background and Context

- Conduct extensive archival research to locate historic documents that pertain to the four historic properties of focus in this Statement of Work. The Utah State Historic Preservation Office’s, “Archeological Compliance Guidance”, Appendix A, provides references to available historic research references. Archival research may include, but is not limited to, historic maps, historic photos, manuscripts, official records, special collections, Library of Congress, publications, journals, Church of Jesus Christ of Latter-Day Saints historic document collection, and unpublished gray literature.
- Produce an annotated bibliography of all research. Include necessary references for source to be relocated in the future if necessary. Note whether sources contained pertinent information. Scan all original documents utilized to interpret the history of these sites.
- If historic photographs are discovered, conduct repeat photography. This entail physically re-creating the view of the original photograph with a current photograph. This process can reveal changes in the environment, landscape and conditions of the historic properties.
- If historic maps and/or aerial images are discovered, utilize or collect current spatial data to provide comparative maps. These comparative maps can be used to analyze changes in alignments, changes to environment and landscape, locate associate features or locales.
- If informants are located with personal or family knowledge of these resources, they should be interviewed. Any oral histories conducted should include a signed permission slip by the interviewer and interviewee (this form will be provided by BLM at pre-work meeting). Interviews should be collected either as audio (.wav files) or video (.mov files). Transcripts of interviews should be produced in a

searchable .pdf format. All audio and/or video files should be provided to the BLM on an external hard drive.

6) Public Product

- The contractor shall establish a history for each site following the themes established in the Treatment Plan (transportation, immigration, and irrigation).
- The contractor should scan any primary source graphic discovered that would be good candidates for interpretative panels and/or plaques at a very high quality to allow for this use.
- The contractor should prepare an electronic presentation (powerpoint) appropriate for presentation at schools, local historical societies and brown bags. This powerpoint should be outlined so the BLM can utilize in the future if necessary.

c. Field Work and Report Submittals

Upon issuance of the Notice of Award, the Contractor will schedule a pre-work meeting with the WCWCD and BLM in St. George within 45 days. At this meeting the BLM will provide shapefiles, forms and any relevant archives associated with this project. Also, any questions brought by the Contractor will be addressed.

The field inventory shall be completed within 60 days starting from the day after the pre-work meeting. A draft report and site records will be submitted to the WCWCD at least 60 days prior to the end of the contracting period. The WCWCD and BLM will provide comments on the draft report and site records to the Contractor within 30 calendar days. The Contractor will have the remaining contracting time (30 days) to submit the final report and all project materials as defined in IV(d). If the final report is found to be deficient in form or content, the WCWCD may return it for revision. Any additional costs incurred in producing an acceptable report shall be borne by the Contractor.

d. Preparing and Submitting Reports

1. The Contractor shall prepare a report of the work accomplished under this contract which shall include:
 - (a) completed Utah SHPO and BLM (UT-8100-3) cover sheets
 - (b) title page
 - (c) abstract and management summary (nature of the undertaking and 2014 Treatment Plan)
 - (d) introduction
 - (e) a brief environmental overview
 - (f) a discussion of the research focus (themes)
 - (g) detailed descriptions of all field work including methods and results

- (h) topographic maps with the survey areas, and cultural resources locations
- (i) site descriptions with physical narratives (photographs and maps as applicable)
- (j) Summary of recommendations of eligibility for listing to the National Register of Historic Places for each recorded cultural resource, with rationale; and
- (k) Comprehensive histories for each site (description of research and findings, annotated bibliography, repeat photography, spatial comparisons, oral history interviews)
- (l) Summary of public products produced with recommendations
- (k) bibliography of references cited

2. The Contractor shall submit an electronic version via external drive to the WCWCD and BLM for review.

3. The Contractor shall revise the draft report and site records, based on comments from the WCWCD and/or BLM, and submit final revised reports/records and other deliverables to the BLM.

- (a) Submission of the final report to the WCWCD should be one single pdf/a for the entire report (cover letters, appendices, photos, maps, etc). The file should be labeled with the Antiquities Project Number with upper case (e.g. U17XX1234.pdf).
- (b) Submission of the site files to the BLM. The updated site files require individual pdf/a files. The individual pdf/a needs entire UASF form and photos. These files should be labeled with the site number in uppercase letters with no leading zeros (e.g. 42WS123). All of the individual site pdf/a files should then be combined into a single zip file, labeled: projectnumber_SiteForms (e.g. U17XX1234_Siteforms.zip). Submission of site files also includes UASF tabular data, which would be one Excel worksheet with all of the project's sites on it. The spreadsheet contains 21 data points across 37 fields. A spreadsheet template is provided on the Utah State Historic Preservation website. The spreadsheet should be labeled PROJECTNUMBER_tabular.xlsx (e.g. U17XX1234_tabular.xlsx).
- (c) The Contractor shall convert all corrected (.cor) GPS cultural resource site data files into ArcMap GIS program shapefiles utilizing Projected Coordinate System NAD_1983_UTM_Zone_12N. Minor spatial editing of GIS shapefiles shall be conducted as appropriate by or with input from the person who collects the data in the field. All data collection, conversion, and editing shall be conducted using parameters set by the County as determined through consultation with BLM. All GIS shapefiles (.dbf, .prj, .sbn, .sbx, .shp, .shx) shall be submitted as a deliverable with the final report. There should be one file for survey data, labeled: pPROJECTNUMBER (e.g. pU17XX1234). The site data should be combined into one file as well, labeled: sPROJECTNUMBER (e.g. sU17XX1234). The survey area and site spatial data should then be combined into a single zip file, labeled: projectnumber_GIS.zip (U17XX1234_GIS.zip).

- (d) Submission of archival research to the BLM. All scanned primary sources scanned at a high resolution .tiff and should be organized with associated annotated bibliography/finding aid.
- (e) Submission of interviews to the BLM. Interviews should either be done as audio (.wav) files or video (.mov). These files should be labeled with the informants' name. All interviews must have transcripts in a searchable .pdf format. Scanned permission forms for each individual must be provided (.pdf).

f. Permits

The Principal Investigator and all Field Supervisors shall hold a valid BLM Cultural Resource Use Permit for public lands in Utah for the project area. In addition, a Fieldwork Authorization must be obtained from the SGFO Authorized Officer at least 7 days prior to the start of field work.

g. Safety Concerns

Standard safety precautions for field surveys in rugged terrain and variable field conditions (temperature extremes, rugged terrain) are recommended. The Contractor should be aware that venomous reptiles may be present in the project area, and that field conditions require that sufficient water be carried to prevent dehydration and other heat-related problems. Vehicle access to designated parking/staging areas is primarily via unimproved two-track routes. Vehicles with four-wheel drive capabilities are required to negotiate some routes and it is recommended that each vehicle carry, at a minimum, a tow chain, two spare tires, and other basic survival type supplies and equipment. . It is also possible that some aspects of construction of the reservoir and pipeline project may be taking place during data recovery activities.

h. Other Concerns

Although unlikely, if human remains or Native American Graves Protection and Repatriation Act (NAGPRA) objects are discovered during field work, the contractor shall notify the WCWCD and BLM's Authorized Officer immediately and comply with any other applicable provisions of NAGPRA or Utah State Statutes. Inventory may continue in sites/areas not associated with the location of the human remains or objects.

i. Future Use of Project Data

Contractor may use the archaeological data resulting from this survey for future research purposes only under the following circumstances. Contractor agrees to provide a digital copy of any manuscripts, reports, and publications pertaining to the survey to the WCWCD and the BLM Archaeologist. Any manuscript prepared for possible publication will be submitted for review by the WCWCD and the BLM Archaeologist prior to publication. **Site nature and location information shall not be disclosed.** Any data pertaining to the nature and location of archaeological resources on BLM lands is protected data may not be made publically available under any circumstance without the written consent of the appropriate BLM official.

j. BLM Personnel

The BLM personnel engaged in this project are:

Point of Contact

Amber Van Alfen (Archeologist)
Email: avanalfen@blm.gov

Or

Dawna Ferris-Rowley
Email: d8ferris@blm.gov
Voice Phone: (435) 688-3252

VIII. Performance Period

Work shall be performed between October 2020 and April 2021.

IX. Acceptance of Work

The BLM will provide written notification to the WCWCD that the final deliverables have been received and are accepted.

X. Payment Schedule

The Contractor shall be paid a firm-fixed price for the services performed under the contract with payments made as follows:

- (a) 35% payment upon completion of field work and archival research;
- (b) 35% payment upon delivery of draft final report including site forms and associated documentation; and
- (c) 30% payment upon acceptance of final Report and all other deliverables.

XI. Selection Criteria

Selection will be based on minimum standards of eligibility as outlined below and as scored on the outlined criteria. The successful contactor will be selected based on qualifications and then a cost proposal will be requested.

The contractor must include a Statement of Qualifications addressing the following:

To be determined eligible:

The Contractor shall be required to hold a valid BLM-Utah Cultural Resource Use Permit

The contractor must demonstrate evidence of completion of at least five (5) relevant historic research projects in Southern Utah, Southern Nevada and Northern Arizona in the past ten (10) years. These projects must include the project name, location, contracting agent, contact information, and the date for work performed.

The contractor must have at least ten (10) years of experience in conducting historic research project work in Southern Utah, Southern Nevada and Northern Arizona, including work for BLM and Utah SHPO requirements.

The contractor must include a Statement of Qualifications addressing the following:

Contractors will be evaluated for selection based on the following criteria.

Firm Qualifications and Experience (25%)

Statement of Qualifications must describe the firm's resources, special abilities and experience.

Statement of Qualifications must describe completion of at least five historic research projects in Southern Utah, Southern Nevada and Northern Arizona in the past ten (10) years. These projects must include the project name, location, contracting agent, contact information, and the date for work performed. The proposal must include information for original contract date and cost versus final contract date and cost for phase II projects completed in the past 10 years.

Work Performance (15%)

Demonstrate the contractor's ability to complete the work (field work, reporting requirements, government standards, etc.) according to the standards outlined and in a timely manner and with established budgets.

Demonstrate the ability to coordinate historic research work with complex utility projects.

Provide a schedule for completing the work within the required 180-day period.

Key Project Personnel (30%)

Provide an organization chart demonstrating the organizational structure for the individuals working on the project.

Provide the names of the key personnel who would be working on the project, their education, work history and qualifications, references, and the availability of their time available for the project. These individuals would include the Principle Investigator and Field Supervisors and any other pertinent personnel.

Local Service (15%)

Demonstrate the ability to provide for timely and personal local service to complete the project.

References (15%)

References. Provide at least five (5) references for relevant work including organization, contact person familiar with the work, address, phone number and email address.

Statement of Qualifications must be submitted by **Monday, August 3, 2020 at 4:00 p.m.**

Electronic copies of Statement of Qualifications are to be delivered to: Washington County Water Conservancy District, 533 East Waterworks Drive, St. George, UT 84770, or emailed to Corey Cram, corey@wccd.org

Questions and additional information can be directed to Corey Cram, Associate General Manager at corey@wccd.org or (435) 673-3617.