

**CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
FISHERIES PROGRAM**

REQUEST FOR QUOTES

Date: April 9, 2024

RFQ Title: South Fork Touchet River Topographic Surface Creation

RFQ Number: 2024/02-401-024

To: Prospective Vendor

RE: The Confederated Tribes of the Umatilla Indian Reservation (CTUIR) seeks assistance in the creation of topographic surface data by a Profession Land Surveyor licensed in the State of Washington, post-processing of data, and delivery of data to the CTUIR.

1. Your Quotation should be received on or before **2:00 pm PST on April 26, 2024**, either by fax (at the fax number given below) or email at the address given below:

Fax or mail completed quotations to:

CTUIR – DNR Fisheries Program

Attn: Julie Burke

46411 Timine Way

Pendleton, OR 97801

Fax No. 541.429.7292 – julieburke@ctuir.org

2. Quotations not transmitted by fax should be enclosed in an envelope that should be sealed and addressed to the Purchaser at the address given above. The envelope should have the RFQ number and Attn: Julie Burke boldly identified.
3. Quotations should remain valid for a period of not less than 90 days after the deadline date specified for submission.
4. Quotations should be sent on your company's letterhead and display units, unit cost, and total cost where possible. Terms and conditions stated in the RFQ will take precedence over any terms and conditions stated in your quotation.
5. Corrections, if any, should be made by crossing out, initialing, dating and re-writing.
6. Quotations shall give a comprehensive description of the proposed items, costs must be broken down into labor hours, travel, supplies, materials, equipment and overhead, and taxes if applicable. Lump sums will not be accepted.
7. Any deviation from the requested specifications shall be highlighted and explained.

8. The CTUIR will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the best value towards meeting the project objectives.
9. Notwithstanding the above, the CTUIR reserves the right to accept or reject any quotations and to cancel the bidding process and to reject all quotations at any time prior to the award of the contract.
10. The normal payment terms of the CTUIR are 30 days upon satisfactory delivery of goods or services and acceptance thereof by the CTUIR.
11. We look forward to receiving your quotation and thank you for your interest in supplying CTUIR.

TERMS AND CONDITIONS:

- All and any additional costs must be detailed in your quotation.
- All quotes are not necessarily accepted and this inquiry in no way obligates your company, its parent, or affiliated entities.
- Technical inquiries of any nature can be addressed to: Ethan Green @ 541-429-7555 (office & fax);
- Purchase terms or any other related inquiries can be addressed to: Julie A. Burke @ 541-429-7292.

ISSUED BY:
Julie A. Burke
Administrative Manager
DNR Fisheries Program

Attachments: Scope of Work
Project Vicinity Map
CTUIR GIS Standards and Requirements

Attachment A: Scope of Work

1.1. Project Description

The CTUIR is seeking valley bottom survey data for the South Fork Touchet River and Griffin Fork within the Rainwater Wildlife Area. The survey project area is approximately 7 linear miles and 480 acres in size. The Rainwater Wildlife Area can be accessed via South Touchet Road. From Dayton, Washington, take South 4th Street southeast out of town. After 2 miles, turn right on S Touchet Road and follow South Touchet Road until the dead end at the Rainwater Wildlife Area gate. Additional access points exist along both ridge tops on either side of the South Fork Touchet River valley via Robinette Road or Jasper Mountain Road.

The intent of this project is to collect survey data to support the development of a hydraulic model and design of a large wood enhancement project within the Rainwater Wildlife Area.

1.2. Scope of Work

1.2.1. Topographic survey

The survey team will collect topographic survey of the South Touchet River and Griffin Fork valley within the extent shown on in the Vicinity Map (See Appendix B). Survey collection methods will be determined by the survey team and can include methods such as drone mounted LIDAR or photogrammetry, if the resulting surface meets minimum standards set in this document.

The topographic surface should accurately represent the bare earth surface; capturing the valley topography, stream width, stream and valley slope, and major geomorphic features such as relic side channels, road locations, and should be adequate for hydraulic modeling. The surface should have a minimum resolution of 1 meter and a vertical accuracy of 15 centimeters or less.

All data will conform to the requirements defined in the CTUIR GIS Standards and Requirements (Attachment C) unless otherwise noted in the Scope of Work.

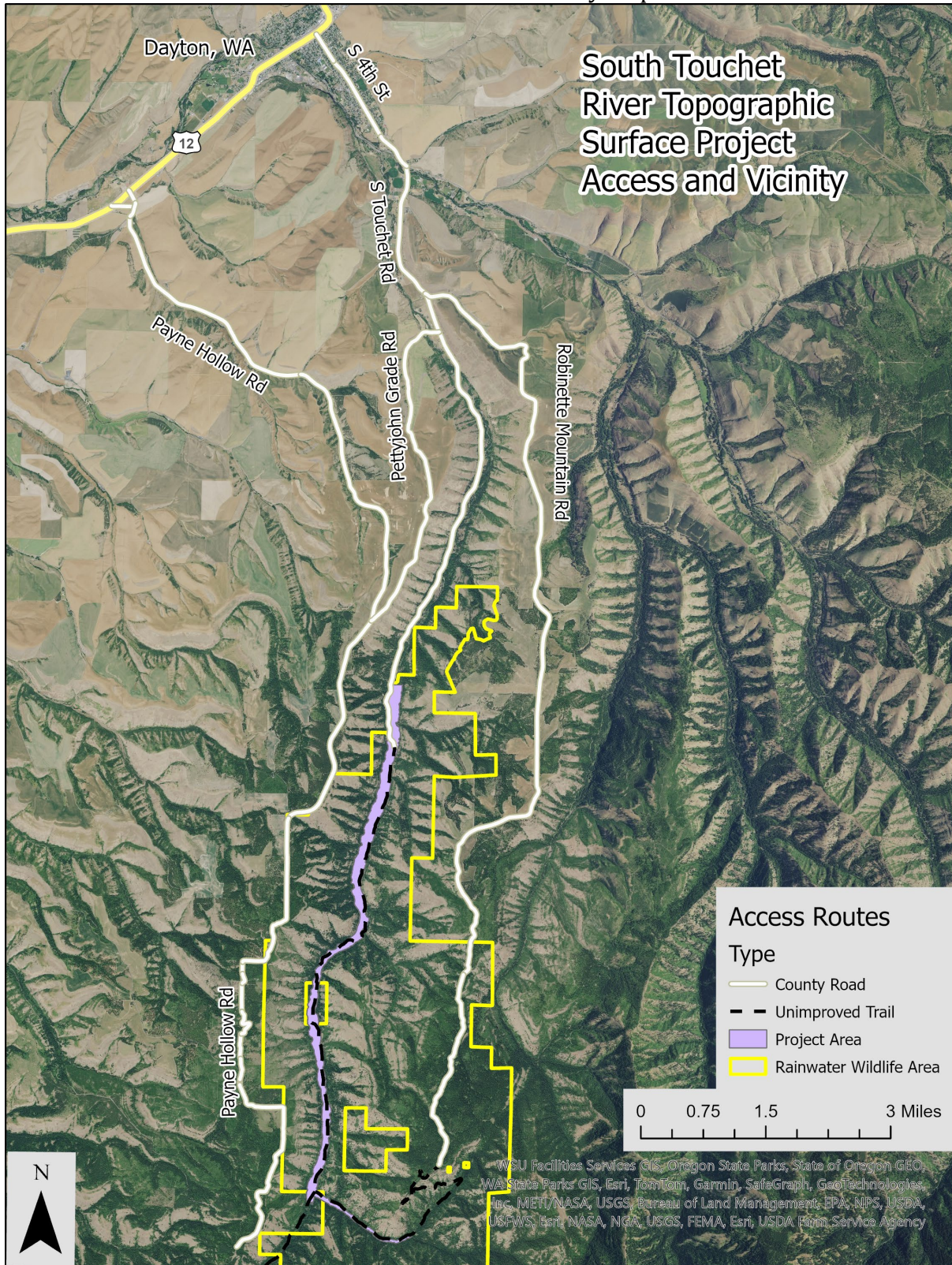
1.1.1. Post-processing and Delivery

In addition to the collection of topographic survey data, the surveyor will perform post-processing of the survey data into usable formats for AutoCAD Civil 3D. The surface will also be provided as a raster data set for compatibility with HEC-RAS and ESRI ArcGIS software. Spatial data will be formatted and delivered consistent with the CTUIR GIS Standards and Requirements (Attachment C).

1.3 Timeline

1.3.1 Survey will be collected before **May 31, 2014**, preferably before leaf growth.

Attachment B: Vicinity Map



Attachment C: GIS Standards and Requirements

The CONTRACTOR shall provide the TRIBES with a digital copy of all finished products that include geographic information. All geographic information shall be delivered in a digital, georeferenced format. Metadata shall be included with all deliverables. The TRIBES use ESRI ArcGIS software as its standard GIS platform, SQL server as its primary database software. This schedule provides a minimum set of requirements for the delivery of GIS files being created for CTUIR. Further requirements may be included in the project implementation plan. All geographic data shall be expected to meet these minimum levels of standards.

If attribute information are collected in addition to geographic positions the CONTRACTOR shall provide a digital data dictionary file that has been approved by the persons responsible for the contract for CTUIR in terms of expected content and format. The data dictionary file must describe all the associated attribute information. Included in the data dictionary must be a definition of each table and each column within the table. The table definition must include the purpose, structure, and a list of any associated features. The column definition must include the data type, data precision, and a brief description of each of the values that may be included in the column (including an explanation of any abbreviations or codes that are utilized). If an extensive number of abbreviations or codes will be utilized to populate a column, a separate domain list shall be provided All domain list values must be accompanied by a description especially in the case of abbreviations. The preferred delivery format for all GIS attribute tables is a comma delimited, ASCII text file format with all column headings specified.

1. Data Collection Standards.

1.1. Survey Data Standards. CONTRACTOR shall:

- 1.1.1. use known Tribal survey monuments if working within the reservation boundary,
- 1.1.2. meet a minimum level or accuracy for all survey work (1/100th of a foot),
and
- 1.1.3. submit a digital file of all survey points and a digital file of their associated attribute descriptions.

1.2. GPS Data Standards. CONTRACTOR shall ensure:

- 1.2.1. all geographic features collected have a unique identification which links it with its attribute information in an associated table,
- 1.2.2. all attribute tables have a digital data dictionary file,
- 1.2.3. horizontal coordinates are documented and meet a minimum level of accuracy as is appropriate for the scope of work. To determine appropriateness, the following guidelines shall be used:
 - 1.2.3.1. Survey Grade are the most accurate and most commonly used in situations where accuracy is essential (engineering applications, property boundary determinations, etc.), as such they are the preferred method. They typically provide true positional accuracy within a centimeter in the horizontal direction and elevation accuracies within 10 centimeters.
 - 1.2.3.2. Mapping Grade receivers must be differentially corrected GPS to reduce

positional errors. Differential correction is the process of improving fixed positions utilizing data from a base station. With differential correction, horizontal accuracies from one to two meters can be achieved, while vertical accuracy is around 3 meters. These receivers are most commonly used by GIS professionals for gathering data for inventories, resource mapping, environmental management and infrastructure management. This method is permissible if Survey Grade cannot be provided.

1.2.3.3. Recreational Grade are the least accurate units, and are not permitted without express authorization from the TRIBES' Office of Information Technology. This is typically used for outdoor recreational activities, these receivers can have up to 20 meters in positional error.

1.3. Georeferencing.

1.3.1. Survey grade information must be georeferenced to the approved coordinate system as adopted by the Oregon Legislature in the Oregon Revised Statute 93.330:

Oregon State Plane North
Projection: Lambert_Conformal_Conic
False_Easting: 8202099.737533
False_Northing: 0.000000
Central_Meridian: -120.500000
Standard_Parallel_1: 44.333333
Standard_Parallel_2: 46.000000
Latitude_Of_Origin: 43.666667
Linear Unit: Foot (0.304800)

Geographic Coordinate System: GCS_North_American_1983
Angular Unit: Degree (0.017453292519943299)
Prime Meridian: Greenwich (0.000000000000000000) Datum:
D_North_American_1983
Spheroid: GRS_1980
Semimajor Axis: 6378137.000000000000000000
Semiminor Axis: 6356752.314140356100000000
Inverse Flattening: 298.257222101000020000

1.3.2. Geographic data including data other than survey grade information, such as CAD, GIS, Aerial Imagery, and Photography must be georeferenced using the following coordinate system:

NAD83 UTM Zone 11 North Projection:
Transverse_Mercator False_Easting:
500000.000000
False_Northing: 0.000000
Central_Meridian: -117.000000
Scale_Factor: 0.999600

Latitude_Of_Origin: 0.000000
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS_North_American_1983
Angular Unit: Degree (0.017453292519943299)
Prime Meridian: Greenwich (0.000000000000000000) Datum:
D_North_American_1983
Spheroid: GRS_1980

- 1.3.3. All aerial photography and satellite imagery must be georeferenced and orthographically rectified unless otherwise authorized by the TRIBES' Office of Information Technology.

2. Data Development Requirements.

2.1. ArcGIS data.

- 2.2.1. All intersecting lines shall be processed to remove overshoots and undershoots.
- 2.2.2. Lines, polygons, points and annotation must not be duplicated.
- 2.2.3. Polygons must have only one label per feature.
- 2.2.4. Polygons must edge match without slivers.
- 2.2.5. Polygons must not overlap.
- 2.2.6. Polygons must close without overshoots or undershoots

2.2. CAD data.

- 2.2.1. Zero length segments shall be removed.
- 2.2.2. Different feature types shall not share a common line segment.
- 2.2.3. Snapping shall be set such that lines intersect.
- 2.2.4. All block definitions shall be provided.
- 2.2.5. A detailed layer list shall be provided.

2.3. LiDAR data. CTUIR follows the Oregon Airborne LiDAR Data Standard

- 2.4. A project report describing the processing steps shall be provided.

3. Data Delivery Requirements:

3.1 Vector Data. Points, polygons and lines (parcels, roads, streams, buildings, etc.) shall be delivered in the following formats: ESRI Shape file format, ESRI File Geodatabase format,

3.2 CAD data. Electronic files of all developed CAD data as DWG shall be provided including a PDF of survey or as-built.

3.3 Raster Data. (aerial photos and other remote sensing imagery) shall be in the following formats: TIFF, JPEG, ERDAS IMAGINE, GRID, GEOJPG.

3.4 LiDAR Data. CTUIR follows the Oregon Airborne LiDAR Data Standard. All LiDAR data collections must meet those standards. Unless otherwise stated in the project implementation plan

CONTRACTOR shall provide:

- 3.4.1 LAS files, containing classification values.
- 3.4.2 Intensity grid.
- 3.4.3 Highest hits grid.
- 3.4.4 Bare earth digital terrain model as a DEM

3.5 Metadata. A metadata file shall be submitted for each digital file delivered to CTUIR. Metadata must provide sufficient information to allow a reasonable understanding of the source, accuracy, modifications to, and applicability of the data provided. All submitted metadata shall follow Federal Geographic Data Committee (FGDC) Standards specified in *Content Standard for Digital GeoSpatial Metadata (FGDC-STD-001-1998)* (FGDC 1998). All metadata should be submitted in text (*.txt), Microsoft Word (*.doc), or the ESRI compatible XML format.).

3.5.1 Minimum metadata standards for geographic information. The CONTRACTOR shall:

- 3.5.1.1 Provide a purpose statement identifying the project for which the data was created,
- 3.5.1.1 Identify the original source of the data,
- 3.5.1.2 Identify the creator of the data,
- 3.5.1.3 Indicate the date that the data was input into a GIS system,
- 3.5.1.4 Provide confidence of attribution data,
- 3.5.1.5 Provide positional confidence of the object location (horizontal and vertical),
- 3.5.1.6 Identify hardware used to collect and process the data,
- 3.5.1.7 Identify software used to collect and process the data,
- 3.5.1.8 Identify the attributes associated with the data.