

OR OFFICIAL USE ONLY

Date Received _____

Bonneville Power Administration

Sent for _____

Application for Permit for Archaeological Investigations

Review _____

Control No. BPA ARPA

**Under the Authority of
The Archaeological Resources Protection Act of 1979
(16 U.S.C. 470aa-mm; 43 CFR 7);**

Instructions: Complete and return two copies of this application form and required attachments to the appropriate State or Regional Office of the land managing bureau involved. All information requested must be completed before the application will be considered. Use separate pages if more space is needed to complete a section.

1. Name of applicant (institution, corporation, partnership, individual or other entity)
Dana L. Holschuh, M.A., RPA; Harris Environmental Group, Inc.

2. Mailing address
15800 Boones Ferry Rd, Suite A6
Lake Oswego, OR 97035

3. Telephone number(s)
503-944-9305

4. Email address(es)
dholschuh@heg-inc.com

- 5. Nature of archaeological work proposed**
- Survey and Recordation
 - Limited Testing and/or Collection (project specific)
 - Excavation and/or Removal (project-specific)

6. Location of proposed work (attach additional sheets)
a. Description of Federal lands involved. Indicate State, county, and Federal administrative unit. Specify the best available location data, e.g., GPS coordinates, UTM coordinates, township, range and section (cadastral) subdivisions, or metes and bounds. Include a readable copy of a map or plan at an appropriate scale showing specific areas for which permit is desired.

The project area is in in the northwestern portion of Oregon, in the southeastern extent of Washington County, in the northeastern extent of the community of Sherwood. It is located approximately 2.58 miles (4.16 km) east of the intersection of Interstates-5 and -205, approximately 1.56 miles (2.51 km) southeast of the Tualatin River National Wildlife Refuge, and approximately 1.17 miles (1.89 km) north of the Washington/Clackamas County line. It is within Township 2 South, Range 1 West, Willamette Meridian, within the southern portion of Section 28 (see attached map).

b. Identification of archaeological resource(s) or other cultural resource(s) involved (if applicable). No known resources at this time.

7. Time of proposed work

Overall duration of project: From August/September, 2023 To: August/September, 2023

Estimated duration of fieldwork: One field day From: August/September, 2023 To: August/September, 2023

8. Principal Investigator
Name of individual(s) responsible for planning and generally overseeing field projects, including overall supervision of staff and overall

Principal Investigator contact information
Telephone number(s):
503-944-9305

| | |
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| responsibility for the professional quality of resource evaluations and recommendations. Dana L. Holschuh, M.A., RPA | Email address(es): Dholschuh@heg-inc.com |
| 9. Field Director Name of individual(s) responsible for carrying out field projects, for technical quality of fieldwork through direct on-the-ground supervision of all aspects of fieldwork and data gathering, for proposing resource evaluations and recommendations for further treatment, and for preparing field records and descriptive reports. Dana L. Holschuh, M.A., RPA | Field Director contact information Telephone number(s): 503-944-9305 Email address(es): dholschuh@heg-inc.com |
| 10. Permit Administrator Name of individual responsible for fulfilling the terms and conditions of the permit (must be legally empowered to obligate applicant organizations). Dana L. Holschuh, M.A., RPA | Permit Administrator contact information Telephone number(s): 503-944-9305 Email address(es): dholschuh@heg-inc.com |
| <p>11. Applicant must include the following attached to the application form: see attached sheet(s) for answers to prompts a-e.</p> <p>a. Description of the purpose, nature, and extent of the work proposed, including how and why it is proposed to be conducted: (include research design, methods, and curation);</p> <p>b. Summary of organizational capabilities, including information on location(s) and description of facilities and equipment, on organizational structure and staffing, and on facilities, equipment and staff to be involved in the proposed work;</p> <p>c. Summary of organizational history in completing work of the kind proposed, including similar past projects, government contracts, and Federal permits (previously held, currently in force with effective dates, and currently pending or planned, by agency and region/state), reports and/or publications resulting from similar work, and any other pertinent organizational experience;</p> <p>d. For each individual named in 8 and 9 above, a curriculum vitae or similar resume or summary of education, training, and experience in the kind of work proposed and in the role proposed; See enclosed</p> <p>e. Written certification, signed by a properly authorized official of the proposed curatorial facility, attesting to the facility's capability and willingness to accept any collections, as applicable, and records, data photographs, and other documents generated during the proposed term of the permit, and to assume permanent curatorial responsibility for such materials on behalf of the United States Government pursuant to 36 CFR 79. In the case of an application on Indian lands where the Indian tribe or Indian owner(s) do no wish to take custody, written consent to undertake curation is required from the Indian Tribe or the Indian owner(s) pursuant to 25 CFR 262.8. Custody of any Native American human remains or cultural items subject to the Native American Graves Protection and Repatriation Act (NAGPRA), 25 USC 3001-3013, removed from public lands or Indian lands shall be determined in accordance with NAGPRA and its implementing regulations 43 CFR 10.</p> | |
| <p>12. Proposed outlet(s) for public written dissemination of the results The results of the field effort will be written up in an addendum report to be provided to Kittelson and Associates and to BPA. Any dissemination will be at the discretion of BPA, the landowner/managers, Kittelson as the project proponent, and the State of Oregon, as allowed by law.</p> | |
| <p>13. Signature of individual named in 10</p> | <p>14. Date signed August 14, 2023</p> |

Paperwork Reduction Act and Estimated Burden Statement: This information is being collected pursuant to 16 U.S.C. 470cc and 470mm, to provide the necessary facts to enable the Federal land manager (1) to evaluate the applicant's professional qualifications and organizational capability to conduct the proposed archaeological work; (2) to determine whether the

proposed work would be in the public interest; (3) to verify the adequacy of arrangements for permanent curatorial preservation, as United States property, of specimens and records resulting from the proposed work; (4) to ensure that the proposed activities would not be inconsistent with any management plan applicable to the public lands involved; (5) to provide the necessary information needed to complete the Secretary's Report to Congress on Federal Archaeology Programs; and (6) to allow the National Park Service to evaluate Federal archaeological protection programs and assess compliance with the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470). Submission of the information is required before the applicant may enjoy the benefit of using publicly owned archaeological resources. To conduct such activities without a permit is punishable by felony-level criminal penalties, civil penalties, and forfeiture of property. A Federal agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information is estimated to average three hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Departmental Consulting Archaeologist; NPS; 1849 C Street, NW (2275); Washington, DC 20240-0001.

a. Description of the purpose, nature, and extent of the work proposed, including how and why it is proposed to be conducted: (include research design, methods, and curation);

Upon receipt of the ARPA permit from BPA, we will perform both surface and subsurface investigations within the BPA-held portions of the Ice Age Drive project area. This will include a full, 100% pedestrian survey of the entire area controlled by BPA. The pedestrian survey will be used to assess the landform for signs of previous disturbances and to choose locations for the excavation of shovel test probes (STPs). All exposed soils will be observed and any artifacts on the surface will be noted.

For the subsurface investigation, we will excavate up to 10 STPs within the BPA-managed parcel(s). These probes will measure no less than 35 cm at ground surface and will be excavated by hand as cylindrical holes. Each probe will be excavated 20 cm into sterile subsoils- soils identified as old enough to preclude human occupation, or until 1m below ground surface. Select probes will be augured to access deeper sediments, if necessary. Auguring will be done at the discretion of the field personnel. The vertical extent of the augur is 2m below ground surface. Notes on all observed matrix, rock content, disturbances and artifacts will be kept in field notes and transcribed into the final addendum report.

No collection will take place as part of this survey. If artifacts are observed, they will be analyzed in the field, photographed, and placed in plastic bags labeled with the date, project name, STP of origin, level of recovery, date, and excavators' initials, and returned to the probe of origin. All probes will be marked with a GPS data point, and the data used to create maps for inclusion in the report.

The results of the survey will be summarized in an addendum to the original Ice Age Drive report, which will be submitted electronically to Kittelson and Associates in Portable Document Format (PDF). This addendum report will contain a summary of the fieldwork performed and the results of that fieldwork. The report will include recommendations for further archaeological work, along with an inadvertent discovery plan (IDP).

b. Summary of organizational capabilities, including information on location(s) and description of facilities and equipment, on organizational structure and staffing, and on facilities, equipment and staff to be involved in the proposed work;

In business since 1994, Harris Environmental has extensive experience conducting a wide variety of cultural resource projects directly for county, state, and federal agencies. Past and current clients include the National Park Service (NPS), U.S. Fish and Wildlife Service (USFWS), U.S. Bureau of Land Management (BLM), the U.S. Army Corps of Engineers (USACE) and many local municipalities and counties, as well as private design, engineering and development firms and private citizens. We have offices in Lake Oswego, Oregon, Tacoma, Seattle and Freeland, Washington, as well as locations and personnel in Arizona, California, Colorado, New Mexico, and Utah.

Our local Oregon office is fully equipped for any field work, including a 4WD work vehicle, all necessary screens and shovels and other excavation equipment. We will be equipped in the field with all required safety equipment, including safety vests, fire extinguishers, first aid kits and any other necessary equipment. We will use hand-held Trimble GEO7X GPS units to record all data with sub-meter accuracy.

Our archaeologists, including Ms. Holschuh, have extensive experience with cultural resources surveys, site assessments, archaeological monitoring, testing, and data recovery in compliance with NHPA Section 106 and other archaeological ordinances. We ensure that regulatory compliance is achieved by providing

technical and planning assistance to our clients, from initial scoping and research through execution of resource specific studies. Our team possesses the requisite local and regional knowledge of archaeological and cultural resource principles, policies, and techniques to provide for compliance federal, state, and local regulations and policies.

All our archaeologists meet and exceed the Secretary of the Interior's Professional Qualifications Standards, and Ms. Holschuh is an ODOT-qualified archaeologist. She brings proven experience to researching, documenting, and protecting pre-contact and historic sites while facilitating the progress of our clients' projects and overall missions. We have completed numerous cultural resource inventories (CRIs), archaeological testing projects, data recovery, and the recovery of human remains. We have prepared numerous Environmental Assessments in compliance with the National Environmental Policy Act (NEPA), in which cultural resources have been addressed. Our CRIs have been prepared in accordance with Sections 106 and 110 of the National Historic Preservation Act (NHPA), as well as applicable executive orders. Our archaeologists have direct hands-on experience performing Class I archival review studies, Class III pedestrian surveys, data recovery projects, archaeological monitoring services, National Register eligibility testing, and mapping using ArcGIS. We have assisted numerous agencies in consultation with the State Historic Preservation Office (SHPO) and with Tribes, both through in-person consultation meetings and by developing formal consultation letters.

c. Summary of organizational history in completing work of the kind proposed, including similar past projects, government contracts, and Federal permits (previously held, currently in force with effective dates, and currently pending or planned, by agency and region/state), reports and/or publications resulting from similar work, and any other pertinent organizational experience;

Harris Environmental have built a nearly 30-year record of completing high quality, large-scale cultural resource surveys, inventories, and site condition assessment projects for federal agencies and other clients. We have extensive experience with cultural resources inventories, associated records and literature searches, site documentation and assessments, NRHP evaluations and authoring comprehensive reports synthesizing the results.

Our work meets the professional standards required by the SOI and Oregon SHPO. We are adept at all aspects of compliance with Section 106 of the National Historic Preservation Act (NHPA). With Ms. Holschuh at the helm of our cultural resources program in the Pacific Northwest since 2017, Harris Environmental Group has performed hundreds of survey projects in Oregon, Washington, Idaho, and California. Our work has included 12 surveys or archaeological monitoring projects for the Columbia River Estuary Study Taskforce (CREST), many of which have included BPA as a funding and reviewing entity (Palensky Wildlife Restoration Area Survey project; Dalton Lake Survey and Monitoring; E Aldrich Point Survey and Monitoring, Wolf Creek Survey). In addition to CREST, we have performed dozens of surveys for USFS, BLM, USACE (Portland, Seattle, and Walla Walla Districts), and many private, municipal, and non-profit clients. We have worked with Kittelson on previous ODOT projects, including two phases of work at the Ice Age Drive project area.

Ms. Holschuh is currently awaiting receipt of archaeological excavation permits in Oregon for similar survey work at the Agency Creek and the Warren Slough project areas, Clatsop County. The permits are expected to be issued in August, 2023 for work within ODOT rights-of-way. Ms. Holschuh is also expecting

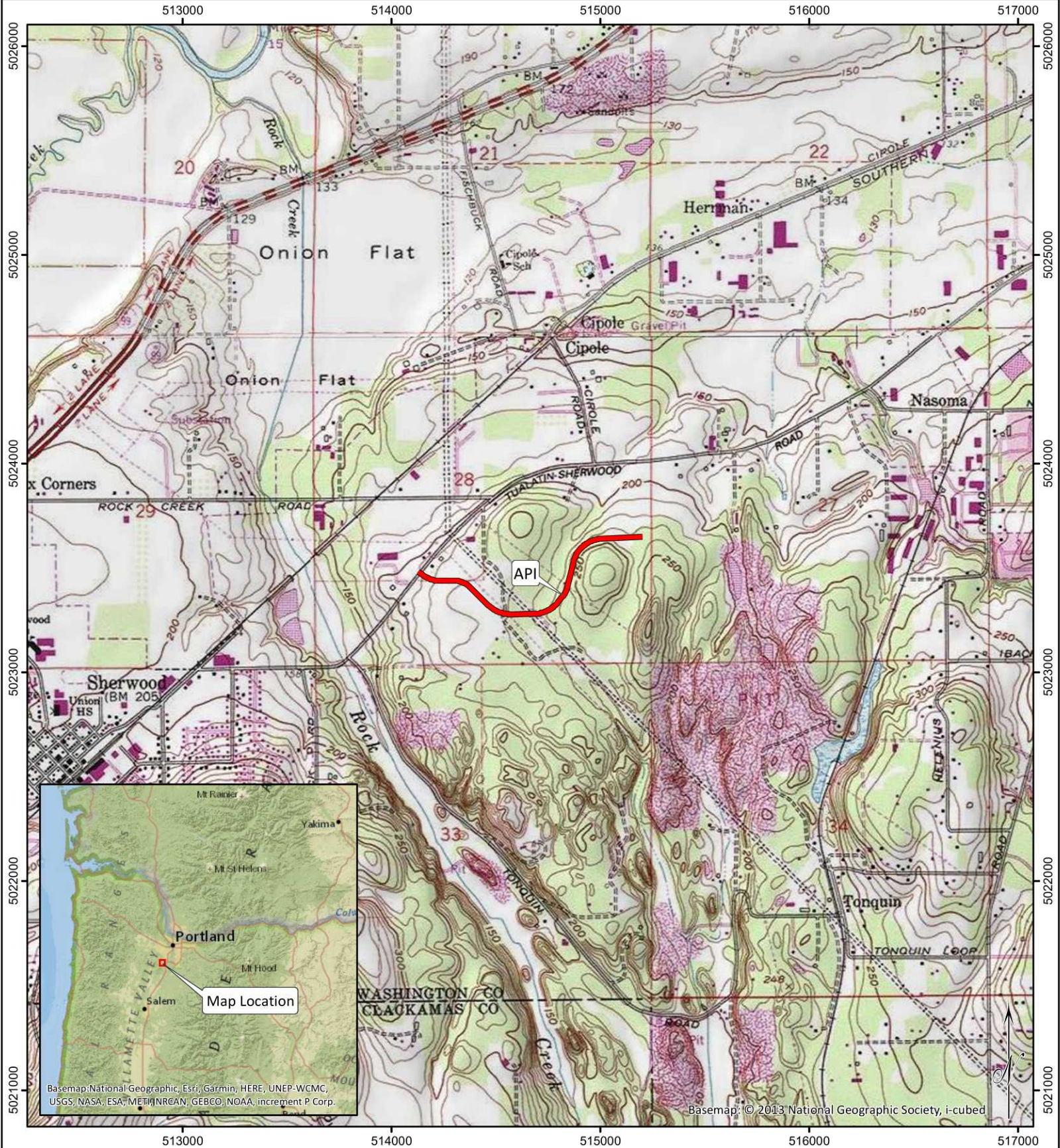
receipt of a State of Washington archaeological monitoring report for monitoring within a known site in Pierce County.

d. For each individual named in 8 and 9 above, a curriculum vitae or similar resume or summary of education, training, and experience in the kind of work proposed and in the role proposed;

See enclosed resume for Dana L. Holschuh, M.A., RPA

e. Written certification, signed by a properly authorized official of the proposed curatorial facility, attesting to the facility's capability and willingness to accept any collections, as applicable, and records, data photographs, and other documents generated during the proposed term of the permit, and to assume permanent curatorial responsibility for such materials on behalf of the United States Government pursuant to 36 CFR 79. In the case of an application on Indian lands where the Indian tribe or Indian owner(s) do not wish to take custody, written consent to undertake curation is required from the Indian Tribe or the Indian owner(s) pursuant to 25 CFR 262.8. Custody of any Native American human remains or cultural items subject to the Native American Graves Protection and Repatriation Act (NAGPRA), 25 USC 3001-3013, removed from public lands or Indian lands shall be determined in accordance with NAGPRA and its implementing regulations 43 CFR 10.

No artifacts will be collected in association with the proposed survey. If any artifacts are observed during either the surface or subsurface investigations, they will be analyzed in the field, photographed, and placed in plastic bags labeled with the date, project name, STP of origin, level of recovery, date, and excavators' initials, and returned to the probe of origin. The probes will be flagged in the field and marked with GPS data points.

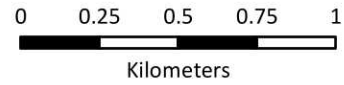


**Ice Age Drive
Preliminary Cultural Resources Review**

Washington County, OR
T 02S R 01W Section 28
USGS Topo Quadrangle: Sherwood

Coordinate System: NAD 1983 UTM Zone: 10N
Projection: Transverse Mercator
Harris Environmental Group 2022

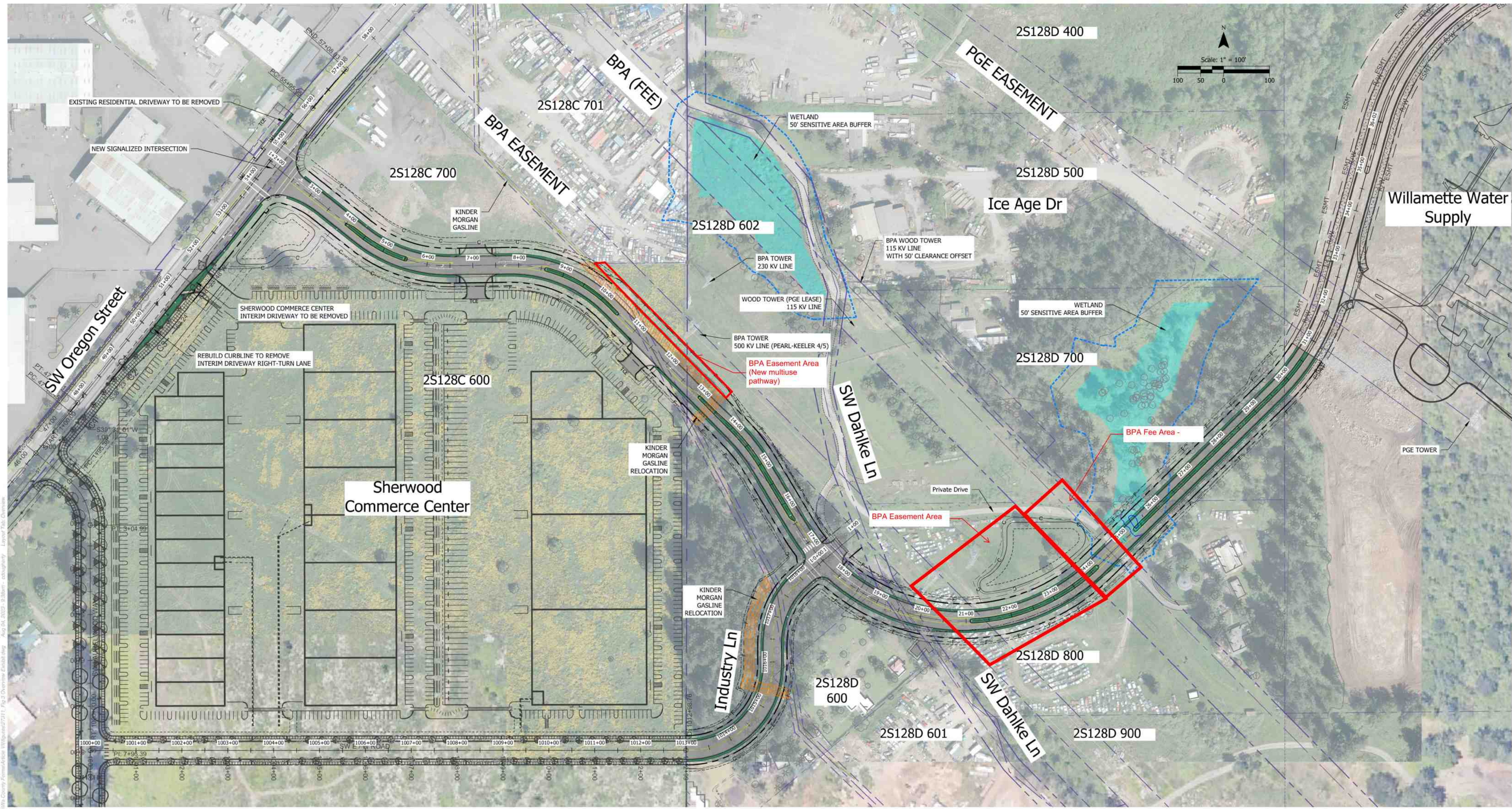
 Area of Potential Impact



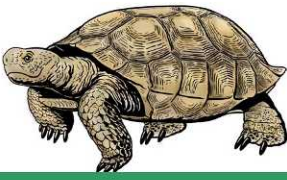
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FIGURE 3 - CONCEPT LAYOUT

Preliminary Design Subject to Change
Date: August 2023



Aug 04, 2023 9:38am - cshughan - Layout File - Overlays



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DANA HOLSCHUH, M.A., RPA

PRINCIPAL INVESTIGATOR

EDUCATION

M.A. Anthropology
(Historic Archaeology)
Portland State University,
2013

B.A. Anthropology –
Classical Civilizations
Colby College, 2001

QUALIFICATIONS

Meets and Exceeds the
Secretary of the Interior's
Professional Qualifications
Standards for Archaeology
and Architectural History

Registered Professional
Archaeologist (Registration
No. 17025)

ODOT-qualified
archaeologist

Small Business Liaison,
Society for American
Military Engineers Board
of Trustees, Portland Post

PROFESSIONAL SUMMARY

Dana Holschuh is a cultural resources professional with over 20 years of experience performing work in compliance with Section 106 of the National Historic Preservation Act (NHPA). She has regularly managed and coordinated all aspects of cultural resource projects, including research, survey, excavation, historic property inventories, construction monitoring; and artifact processing and curation. Ms. Holschuh has provided high quality work and consultation for the U.S. Army Corps of Engineers (USACE, Seattle and Portland Districts), U.S. Forest Service (USFS), U.S. Fish and Wildlife Service (USFWS), Oregon Department of Transportation (ODOT), and many private clients. She has worked directly with many Oregon tribes to create a collaborative approach to cultural resources compliance work. Ms. Holschuh is well-versed in cultural resources studies to support telecommunications installations, and is experienced in evaluating project areas to identify historic properties and archaeological sites, providing evaluations of their integrity and significance, making recommendations for inclusion on the National Register of Historic Places (NRHP) and assess the impacts of a variety of proposed project types.

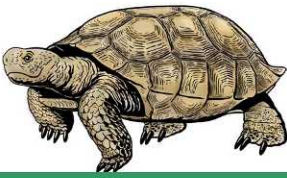
PROFESSIONAL EXPERIENCE

Multiple Cultural Resources Surveys supporting Cellular Installation, Oregon, Washington and Montana. Principal Investigator. Oversaw and performed literature reviews, site visits, surveys and reporting for private clients in locations across Oregon, Washington and Montana. Fieldwork included navigating to remote locations and performing complex visual impact analysis within urban areas. All reports designed to satisfy the appropriate SHPO, and Section 106 requirements.

Cultural Resources Site Assessments, Clackamas County, OR, Portland Water Bureau, (PWB) Clackamas County, OR. Principal Investigator. Coordinated and carried out two site assessments at the Sandy River Station and Waterworks Road sites. Conducted background research with OR SHPO and consulted historic maps, aerial photographs to assess the potential for extant archaeological or historical resources and to assist PWB in Section 106 compliance. Conducted site visit and pedestrian survey at each project area with photo-documentation, and developed two final technical reports with recommendations.

Archaeological Monitoring of sediment sampling in support of the Willamette River Upriver Reach Project, Multnomah and Clackamas Counties, Oregon. Principal Investigator. Coordinated with private client to install and perform monitoring during sediment sampling at 45 locations within the Willamette River, to the south of Portland. Project duties included coordinating with geological crew and research vessel crew, observing and documenting sediment samples. Authored a monitoring report detailing the results of the monitoring.

Section 106 Survey of the Ankeny National Wildlife Refuge, Jefferson, Marion County, Oregon, US Fish and Wildlife Service (USFWS). Principal Investigator. Coordinated cultural resources survey prior to construction of nature center and interpretive/educational facilities. Attended agency meetings, performed extensive literature review and led pedestrian and subsurface investigations. Synthesized decades of previous archaeological work, relocated and tested previously recorded sites and analyzed historic maps and aerial photographs. Recorded one historical isolate and one multicomponent site with two features. Completed SHPO site forms and evaluated NRHP eligibility of all resources. Authored technical report including environmental, ethnographic and historic context statements, digital maps and photographs and recommendations, resulting in SHPO concurrence.



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Cultural Resources Survey of the Palensky Wildlife Habitat Mitigation Project Area, Columbia River Estuary Study Taskforce (CREST), Burlington, Multnomah County, OR. Principal Investigator. Coordinated with CREST, BPA and OR Department of Fish and Wildlife to conduct a survey and inventory of a 28-acre project area within a wetland environment. Performed literature review and identified high probability areas (HPAs) to be subject to subsurface investigations. Oversaw fieldwork, which included 100% pedestrian survey and testing in the HPAs. Provided quality control and quality assurance for the resulting technical report, in consultation with BPA.

Cultural Resources Inventory of the South Warner Habitat Restoration Project Area, Fremont-Winema National Forest, Oregon, U.S. Forest Service (USFS). Principal Investigator. Coordinated and oversaw large-scale survey and site inventory of 4,275 acres, split up into 30 separate survey areas, containing 26 previously recorded pre-contact and historic archaeological sites. Communicated with crew in the field and coordinated with USFS to perform 100% pedestrian survey and site assessments at each of the previously recorded resources. Our team recorded an additional 21 new archaeological sites and 59 isolated finds. Provided QA/QC on resulting reporting, which followed the Oregon SHPO Standards for Survey Reporting and received SHPO concurrence.

Cultural Resources Survey and Subsequent Testing within the Bly Solar Center Project Area, Klamath County, Oregon. Participated in extensive survey and testing within a 248-acre project area for proposed solar array installation project. During initial pedestrian survey, a total of five (5) pre-contact archaeological sites and ten (10) pre-contact archaeological isolates were identified. Subsequent work included consultation with SHPO and the Klamath Tribe, and additional pedestrian survey and excavations to verify isolates, delineate APE boundaries, identify and record stacked rock features, and evaluate the previously recorded deposits. The resulting technical report included comprehensive context statements for Sprague River Basin, archaeology of the Klamath Basin and the Klamath peoples' stacked rock feature tradition along with recommendations of eligibility for each of the cultural resources identified and tested.

Cultural Resources Survey and Inventory of the Duckabush Estuary Restoration Project, Jefferson County, WA. USACE Seattle District. Principal Investigator. Coordinated and oversaw all work for a large-scale survey and inventory within a tidal marsh at the mouth of the Duckabush River. The project included literature review, pedestrian and extensive subsurface testing and geoarchaeological analysis and historic property documentation. Documented the historic Duckabush River Bridge, Duckabush Slough Bridge and Duckabush Causeway and Dike that carry historic Olympic Loop Highway across the estuary on NPS 10-1900 NRHP nomination forms, including detailed statements of significance, results of background research and site visits and historic photographs. Supervised a crew of five archaeologists during multiple field sessions. Worked closely with USACE Seattle and Washington Department of Fish and Wildlife (WDFW) to formulate research design documents prior to fieldwork, deliver soil samples and provide progress reports to those agencies throughout the project. Report was finalized with input from USACE and WDFW.

City of Pasco African American Experience Historic Property Survey, Pasco, WA, City of Pasco. Principal Investigator. Performed intensive-level inventory of historic properties for an NPS grant-funded project within East Pasco. Conducted public outreach in consultation with City of Pasco, and local interest groups. Organized public meetings presenting project and results to community. Performed background research and oral interviews to write statements of significance. Recorded ten historic properties on DAHP's Historic Property Inventory (HPI). Assessed and evaluated properties for integrity, significance and eligibility for NRHP. Authored technical report summarizing inventory results and received DAHP concurrence. Project received 2020 Municipal Excellence Award from the Association of Washington Cities.

Multiple Habitat Restoration Projects: Hungry Harbor, Smith Creek, Mill Creek, Harlow Creek Surveys, and John Day Bridge Replacement Monitoring, Washington and Oregon, Columbia River Estuary Study Taskforce (CREST). Principal Investigator. Oversaw, coordinated and contributed to several surveys for CREST restoration project areas southwest Washington and Northwest Oregon in support of restoration of various estuarine and riverine habitats to improve tidal areas in of fish passage. Responsible for conducting pedestrian survey of parcels ranging from two to 50 acres, as well as the excavation of multiple shovel probes within high-probability areas (HPAs). Performed archaeological monitoring during the removal of an existing culvert on the Johan Day River. Provided QA/QC for the draft and final technical reports in consultation with tribes, CREST and funding entities including BPA and USACE. The projects were completed on time and within their designated budgets.