Exhibit I: Applicant Submittals

- Application, SDR
- Narrative
- SEPA Checklist
- Critical Areas
- Aquatic Resources Summary and Maps
- Site Plans
- Site Plan _Wetland Exhibit

119 West First Street
Cle Elum, WA 98922
Telephone · (509) 674-2262
Fax · (509) 674-4097
www.cityofcleelum.com

Stamp & initial
RECEIVED
APR 26 2024

SITE AND DESIGN REVIEW APPLICATION

Site and design review is required for all proposed development activities unless determined to be exempt by the city, Per CEMC 14.30.140(A). For exemptions, see 14.30.140(A)(5)(a-f).

The purpose of a site and design review is to determine whether new development activities will or will not have an adverse effect on the public health, safety, and welfare of residents of Cle Elum, and that new development activities are compatible with existing patterns of development and the provisions of the Cle Elum comprehensive plan, per CEMC 14.30.140.

OFFICAL USE ONLY	
Permit #:	SDR-2024-002
Staff Person:	K. Arnold
Fee Total:	$350.00
Related Permits:	PreAP-2024-001

Applicant	
Name: Kittitas County Public Works	
Mailing Address: 411 N. Ruby St., Suite 1 Ellensburg, WA 98926	
Phone Number: 509-962-7523	Email: kelee.hodges.pw@co.kittitas.wa.us
Property Owner	Same as Applicant ☒
Name:	
Address:	
Phone Number:	Email:
Project Information	
Project Name: Kittitas County Search and Rescue/ EOC	
Project Location Address: XXXX Airport Rd, Cle Elum WA 98922	
Assessor's Parcel No. 962113	Zoning: Planned Mixed Use

Narrative

Description of proposed action:

Construct a regional facility housing search and rescue (SAR) along with an emergency operations center (EOC). The project is located on parcel # 962113 near MP 1.23 Airport Rd in Cle Elum, WA. The parcel is zoned Planned Mixed Use (PMU). Typical daily operations will have one or two employees on-site. Current access is from the airport access driveway. There will be two phases for the project. The first phase will be the clearing and grubbing, grading and well installation, along with the design for future build out.
The second phase will include construction of septic systems, buildings, and parking lots. The third phase is for a future build out of the Emergency Operations Center (EOC).

General Site Plan Checklist CEMC 14.30.140(B)(1)

All general site plans shall be drawn to scale, shall be submitted in a format prescribed by the city by a qualified professional, and should include, but is not limited to the following:

- The location and dimension of the lot(s).
- Existing topography and natural features.
- The nature, location, dimensions of critical areas, shorelines, and their associated buffers, if any, on or adjacent to the site.
- The footprint of existing and proposed structures, proposed building heights, proposed building setbacks, and the proposed uses.
- The location of existing and proposed utilities including but not limited to water, hydrants, irrigation, sanitary sewer, electrical, light poles, and cable.
- Existing and proposed easements.
- The location of existing and proposed roads, driveways, parking facilities, loading areas, curbs, sidewalks, pedestrian facilities, bike lanes and facilities, and signage.
- Existing and proposed walls, fences, and landscaping.
- Existing and proposed open space, parks, plazas, public spaces, and public art.
- Proposed grading and drainage facilities.
- Other items as may be required by the city in writing.

Supplemental Materials

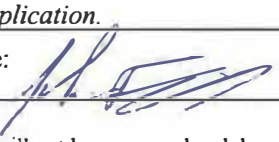
Additional information that may be required could include technical reports prepared by a qualified professional. This may include, but is not limited to:

- Critical area reports;
- Landscaping, screening and buffering plans that meet the standards of CEMC 17.64.;
- Geotechnical reports;
- Preliminary storm water reports;
- Traffic impact analysis; and/or
- Parking studies.

Decision Criteria can be found in CEMC 14.30.150

Authorization

The undersigned hereby certifies that this application has been made with the consent of the lawful property owner(s) and that all information submitted with this application is complete and correct. False statements, errors, and/or omissions may be sufficient for denial of the request. This application gives consent to the City to enter the properties listed above for the purposes of inspecting and verifying information presented in this application. The applicant further agrees to pay all fees specified in the City's fee schedule for the permit and expenses associated with the review of the application, including City's consultant costs. The applicant gives consent to the City to enter the property(s) listed above for the purpose of inspecting and verifying information presented in this application.

Applicant Signature:  Date: 23/April/2024

The application will not be processed and deemed complete unless all required criteria is attached to application on the day of submission. The Planner may choose to waive some of the required criteria. If any of the required criteria is provided in another permit, please cite that permit.

City of Cle Elum
119 West First Street
Cle Elum, WA. 98922
509-674-2262

Kittitas County Public Works
411 North Ruby St., Suite #1
Ellensburg, WA 98926

Account Information			
Cust #:	1117		
Date:	04/26/2024	Due:	05/26/2024
Invoice #:	7334		
For:	Planning And Development		

Item	Taxed	Quantity	Amount	Total
Grading Permit GP-2024-003	N	1.0000	600.00	600.00
Site and Design Review SDR-2024-002	N	1.0000	350.00	350.00
SEPA Checklist SEP-2024-002	N	1.0000	975.00	975.00

Base fees for Grading, Site and Design Review & SEPA Applications. Permit # GP-2024-003, SDR-2024-002 & SEP-2024-002.
Additional Review Fees May Be Invoiced At A Later Date.

Non Taxed:		1,925.00
Taxed:		0.00
Tax @	6.00%:	0.00
Payments:		0.00
Total:		**1,925.00**

THANK YOU!

City of Cle Elum
119 W First St.
Cle Elum, WA 98922
(509) 674-2262
www.cityofcleelum.com

XBP Confirmation Number: 171398428

Transaction detail for payment to City of Cle Elum. **Date: 04/26/2024 - 1:26:03 PM MT**

Transaction Number: 217531748
Visa — XXXX-XXXX-XXXX-1421
Status: Successful

Account #	Item	Quantity	Item Amount
	Planning and Development Fees	1	$1925.00
Notes: Base Fees for Grading Permit GP-2024-003, Site and Design Review SDR-2024-002 and SEPA Checklist SEP-2024-002 Applications.			

TOTAL: ***$1925.00***

Billing Information
Public Works Department Kititas County
411 N Ruby St. Suite 1
Ellensburg, WA 98926

Transaction taken by: Admin Virgil

Receipt: 16389 04/26/2024
Acct #: 1117 COPY
City Of Cle Elum
119 W First Street
Cle Elum, WA 98922
5096742262

Kittitas County Public Works
411 North Ruby St., Suite #1
Ellensburg, WA 98926

Invoice Payment
Inv#: 7334 Amt Paid: 1,925.00
Base fees for Grading, Site and Design Review & SEPA Applications. Permit # GP-2024-003, SDR-2024-002 & SEP-2024-002.
Additional Review Fees May Be Invoiced At A Later Date.

Non Taxed Amt:	1,925.00
Total:	1,925.00
CC: Xpress	1,925.00
Ttl Tendered:	1,925.00
Change:	0.00

Issued By: Virgil
04/26/2024 13:47:50

KITTITAS COUNTY
DEPARTMENT OF PUBLIC WORKS

Mark Cook, Director

PROJECT NARRATIVE

KCSAR EOC
XXXX Airport Rd
Cle Elum, WA 98922

Kittitas County is constructing a regional facility housing search and rescue (SAR) along with an emergency operations center (EOC). The new facility creates the first county EOC and relocates the existing SAR facility from Ellensburg to Cle Elum, WA. Ninety percent of all rescues call to the upper county (Cle Elum area). The relocated facility reduces response time and saves money which increases first responders ability to saving lives. The Teanaway and Cle Elum Ridge areas represent two of the highest fire danger areas in the county as recognized by Washington Department of Natural Resources and United States Department of Agriculture (US Forest Service). Locating the EOC in Cle Elum affords increased operational efficiencies during fire fighting operations.

The project is located on parcel # 962113 near MP 1.23 Airport Rd, Cle Elum, WA 98922. The parcel is zoned for Planned Mixed Use (PMU). Typical daily operations will have 1-2 employees on-site. During active search and rescue activities and/or trainings there may be up to 40 people on-site for a short time period. Property to the north is owned by City of Cle Elum and is the location of Cle Elum Airport. The property to the east is owned by DNR and is the location for training and housing of wildfire specialists. The property to the west and south are zoned agriculture and rural residential. Current access is from the airport access road that runs through the property. The City of Cle Elum has an easement through the parcel owned by Kittitas County Public Works. Another access will be created off Airport Rd.

There will be two phases for the project. The first phase will be the clearing and grubbing, grading, storm drainage systems, septic system, and well installation, along with the design for future buildout. The second phase will include construction of buildings and parking lots.

411 N. Ruby St, Suite #1
Ellensburg, WA 98926

TEL (509) 962-7523
FAX (509) 962-7663

SEP-2024-003

City of Cle Elum, Washington
SEPA Checklist

Purpose of the Checklist

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for Applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. **You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown.** You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to **all parts of your proposal,** even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of the Checklist for Nonproject Proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the Supplemental Sheet for Nonproject Actions (Part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

1) Background

1. Name of proposed project, if applicable:

   Kittitas County Search and Rescue Facility

2. Name of applicant:

   Kittitas County Public Works

3. Address, e-mail and phone number of applicant and contact person:

   Josh Fredrickson
   411 N. Ruby St, Suite 1
   Ellensburg, WA 98926
   509-962-7523
   josh.fredrickson@co.kittitas.wa.us

4. Date checklist prepared:

   April 22, 2024

5. Agency requesting checklist:

   Kittitas County Public Works

6. Proposed timing or schedule (including phasing, if applicable):

   Site development will begin in the fall of 2024 with land clearing operations followed by activities including grading, paving, well and onsite septic construction. Construction of the metal skin building will begin concurrent with site development activities concluding in the third quarter of 2025. Kittitas County Search and Rescue (KCSR) will occupy the facility upon building completion. Build out of the interior of the Emergency Operations Center (EOC) proceeds as funding allows.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   None currently planned. The Project is finished upon completion.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

   Documentation that has been prepared directly related to this proposal includes:

   - **Jacobs. 2023a. *Kittitas County Search and Rescue Facility - Aquatic Resources Summary*. Technical Memorandum prepared for Kittitas County. August 2023.**
   - **Jacobs. 2023b. *Cultural Resources Assessment Search and Rescue Building Project Kittitas County, Washington. Prepared for Kittitas County*. September 2023.**
   - **Jacobs. 2023c. *Kittitas County Search and Rescue Facility Project Hazardous Materials Memorandum*. Update in progress.**
   - **Kittitas County. In Progress. *Stormwater Report*. Prepared by Kittitas County Public Works.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

Government approvals currently pending include:

- **Washington State Department of Natural Resources (DNR) Forest Practice Application**
- **National Environmental Policy Act Categorical Exclusion is being prepared by the Federal Emergency Management Agency (FEMA).**

10. List any government approvals or permits that will be needed for your proposal, if known.

- **Letter of Concurrence with Area of Potential Effects for Section 106 from the Washington State Department of Archaeology and Historic Preservation.**

11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

Kittitas County is proposing construction of a regional facility housing KCSR along with an EOC. Proposed Project activities consist of construction of a communications tower, a County road accesses, an access to the existing driveway, an office building, a storage building, a drive-through vehicle bay building, and a paved parking lot with parking spaces. The objective of the Project is to create the first County EOC and relocate the existing KCSR facility from Ellensburg to Cle Elum to increase response times and service.

The new roadway and accesses will occur on Airport Road and on the existing airport access. The new accesses will be constructed with fill and paved. The parking area will be paved and provide approximately 16 designated parking spaces. A 1,600 square foot parking garage will be constructed as alternate parking for EOC equipment. One recreational vehicle pad will be constructed for a FEMA trailer. The new accesses and parking area will be designed using the WSDOT Eastern Washington Stormwater Manual to sheet flow stormwater runoff for dispersal and infiltration into roadside areas. There will be no discharge of untreated stormwater to surface waters. The Project will add approximately 48,400 square feet (11,900 square feet for buildings and 36,500 of paved lot) of impervious surface.

Approximately 83,040 square feet of grading will occur for facility buildings and parking areas. Following site preparation and construction of the accesses, facility construction activities including grading, paving, well, and onsite septic construction will occur. Construction of retaining walls and the metal skin building will occur concurrent with site development activities.

An approximately 10,300 square foot building serving as both the KCSR and EOC building on the southern half of the parcel will be constructed. The one story building will house several offices, storage, restrooms, and a kitchen at one end with an enclosed vehicle garage at the other end of the building. Build out of the proposed buildings and interior of the KCSR will occur during the first phase. The EOC facility interior build out will occur after the exterior is in place and will proceed in a phased approach as funding allows.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The Project is located at the Cle Elum Municipal Airport in Kittitas County, Washington in Section 30, Township 20 North, Range 16 East, Willamette Meridian at 46.952243° N latitude, 120.530794° W longitude. See Vicinity map and site plan (Attachment 1 and Attachment 2).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

The site is flat with slopes at the perimeter, one on the north boundary of the parcel and one at the south boundary of the parcel.

(circle one): **Flat**, rolling, hilly, **steep slopes**, mountainous, other

b. What is the steepest slope on the site (approximate percent slope)?

44%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat,muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The Project will not remove soils from the site.

The Natural Resources Conservation Service Web Soil Survey maps soils as Teanaway ashy loam and Patnish-Mippon-Myzel complex. Both soils are classified as agricultural or prime farmland.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

A total of approximately 5,400 cubic yards of excavation will be required. Approximately 1,060 cubic yards of excavation is needed for the building footings and foundations during construction and approximately 4,400 square feet of excavation is anticipated for the stormwater pond, ditching and access construction.

Approximately 83,040 square feet of grading is needed for buildings and parking lot construction.

Approximately 6,000 cubic yards of fill is anticipated.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Minimal erosion is possible during construction. Best management practices (BMPs) for erosion/sediment control will be in place to mitigate any possible erosion during clearing, construction, and post construction. There will be no increase in erosion from the long-term use of the facility.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Approximately 23% of the site will be covered in impervious surface; approximately 36,500 square feet of asphalt and approximately 14,300 square feet of building footprint for a total of 50,800 square feet of impervious surface.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

A Project-specific Temporary Erosion and Sediment Control (TESC) Plan is required for the Project. Disturbed areas not planned for direct facility use will be replanted with native vegetation or approved species. Project-specific BMPs will be implemented to avoid and prevent any erosion associated with construction.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Typical construction activities are expected to cause minor and temporary increases in fugitive dust and exhaust.

The completed Project is not anticipated to result in a significant increase in traffic volumes. Estimated volumes of traffic are 0.88 peak hour trips during a typical day and 17.6 peak hour trips during events or trainings.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Standard BMPs for dust control measures during construction, such as watering exposed soil or road surfaces, placing clean rock on road surfaces, or other commercial dust abatement applications to road surfaces will be implemented as needed. Machinery, equipment, and support vehicles used for the Project will be maintained in proper working order and shut off when not in use.

3. Water

a. Surface Water:

(1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Streams and Waterbodies

The U.S. Geologic Survey National Hydrography Dataset indicates there is an unnamed ephemeral drainage on the adjacent parcel to the east, which flows north to south. The DNR types this drainage as a Type 'F' stream. Field reconnaissance conducted by Jacobs' biologists indicates this "stream" to be an ephemeral drainage that is dry for many months of the year and has reported findings as stream type "Ns" (Jacobs 2023a). Type Ns streams are defined by DNR as "Streams that do not have surface flow during at least some portion of the year, and do not meet the physical criteria of a Type "F" stream."

Wetlands

Field investigations were conducted in 2023 by a certified biologist, which determined there is one approximately 0.42 acre wetland within the Project area (Jacobs 2023a).

(2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No work will occur in or adjacent to surface waters.

(3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill or dredge material will be placed or removed from surface water or wetlands.

(4) No fill or dredge material will be placed within any wetlands or aquatic resources. Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

(5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

(6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground Water:

(1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

Domestic well and septic systems are proposed for the office building, which will contain a kitchen and two restrooms. The well will be used for drinking water and other domestic functions.

(2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Waste material that will be discharged into the ground from septic tanks includes domestic sewage. The facility is anticipated to serve two people but is designed to accommodate up 10 people on a regular basis. A surge tank will be provided to help mitigate and influxes the facility may see during emergency operations. A septic dump has also been included for the FEMA emergency trailer in front of the septic field (Attachment 2).

c. Water runoff (including stormwater):

(1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

A stormwater pond will be created on the east edge of the site adjacent to the access road. The footprint of the pond will be approximately 14,000 square feet. The pond will be positioned to convey runoff from the adjacent area in a series of catch basins positioned throughout the site routed to the stormwater infiltration pond. The water will be contained for infiltration and treated through the site soils and not flow into other waters. Vegetation will be added to the pond if necessary (see Attachment 2).

(2) Could waste materials enter ground or surface waters? If so, generally describe.

No, any waste materials will be contained within the proposed stormwater pond.

(3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

The proposal only alters drainage patterns within the Project footprint. The adjacent areas will not be altered. The Project will not alter or affect drainage patterns in the vicinity of the site.

(4) Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

BMPs for stormwater will be in place during construction. In the event a precipitation event occurs and results in short-duration runoff of surface water, BMPs will contain all sediment and prevent discharge to any adjacent aquatic resources.

4. Plants

a. Check the types of vegetation found on the site:

X deciduous tree: alder, maple, aspen, other
X evergreen tree: fir, cedar, pine, other
X shrubs
X grass
__ pasture
__ crop or grain
__orchards, vineyards, or other permanent crops.
X wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
__water plants: water lily, eelgrass, milfoil, other
__ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Pine, hemlock, and cottonwood trees, shrubs, and grasses will be removed or cleared for the buildings. No vegetation will be removed from the delineated wetland or east of the Cle Elum Municipal Airport access.

c. List threatened and endangered species known to be on or near the site.

There are no known threatened or endangered plant species on or near the site. There is no suitable habitat present for threatened or endangered species within the Project area.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Vegetation will be left in place to the greatest extent possible. Disturbed areas not intended for Project use will be reseeded and potentially landscaped.

e. List all noxious weeds and invasive species known to be on or near the site.

No noxious weeds were observed onsite.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

Birds: hawk, heron, eagle, songbirds, other:

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other

b. List any threatened and endangered species known to be on or near the site.

There are no known threatened or endangered species on or near the site.

c. Is the site part of a migration route? If so, explain.

The Project is not part of a mapped or documented migration route.

d. Proposed measures to preserve or enhance wildlife, if any:

The site will be fenced to keep wildlife out.

e. List any invasive animal species known to be on or near the site.

None known.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The completed Project will use electrical power for heating, cooling, lighting, and general facility operations.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

The Project will utilize local materials where possible during construction and use energy star appliances, auto shut off lights, and other energy efficient utilities.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

There are no known health hazards at the Project site.

1. Describe any known or possible contamination at the site from present or past uses.

No spills or cleanup sites are documented in the Washington State Department of Ecology's Facility/Site or Toxics Cleanup Program databases within the Project site. There is no known contamination at the Project site.

2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Construction may require the use of hazardous materials (e.g., fuel, oil). BMPs will be in place when storing or using hazardous materials. A Spill Prevention, Containment and Countermeasures (SPCC) Plan will be implemented during construction.

Toxic or hazardous chemicals that may be stored on or used during the operating life of the facility may include but is not limited to gas or oil for equipment and vehicles.

4.Describe special emergency services that might be required.

It is not anticipated that special emergency services will be required.

5. Proposed measures to reduce or control environmental health hazards, if any:

A SPCC Plan will be developed for the Project which will provide site-specific information regarding the prevention and containment of spills. Appropriate BMPs for spill prevention will be in place and clean up measures will be taken if necessary.

Spill containment plans would be implemented in the event of a vehicle or equipment leak. Refueling would be done over 100 feet from any surface water and with appropriate care to avoid spills. A Health and Safety

Plan would be required to define the appropriate engineering control methods and personal protection equipment for health and safety. Work areas would be identified with flagging or temporary construction fencing to prevent potential impacts outside of the work limits.

b. Noise

1. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

The Project is near the Cle Elum Municipal Airport, which creates noise from airplane traffic. The Project is also near Airport Road and the Airport access, which generates noise from traffic. Existing noise in the area will not affect the Project.

2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

During construction, noise associated with equipment to be used may include but is not limited to dozers, chain saws (for clearing and grubbing), pickups, compressors (to power pneumatic tools), graders, rollers, excavators, dump trucks, front loaders, and generators.

Construction will take place during work hours, from approximately 7:30 am to 5:30 pm on weekdays.

Noise associated with the completed Project may include noise from up to two vehicles during normal operating hours and several vehicles, tools, and sirens during an emergency operation.

3. Proposed measures to reduce or control noise impacts, if any:

During construction, equipment will be operational during daylight hours and shut off when not in use.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The site is currently vacant . Adjacent properties include the Cle Elum Municipal Airport, which is a public airport, the DNR Training Facility, which is used for personnel fire training, and residential properties.

The proposed Project will not affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No, the site has not been used as farmland or forest lands and no agricultural or farmland will be converted to another use as a result of the Project.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

One decommissioned well house is the only structure on the site.

d. Will any structures be demolished? If so, what?

Yes, the well house structure will be demolished.

e. What is the current zoning classification of the site?

The property is zoned Planned Mixed Use.

f. What is the current comprehensive plan designation of the site?

The current land use designation is Planned Mixed Use.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable. No shoreline master program designation exists on the site.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Wetlands

Field surveys determined one wetland occurs on the south portion of the parcel.

Critical Aquifer Recharge Areas

The parcel is mapped as Unconsolidated Deposit within Kittitas and Roslyn Basins.

Fish and Wildlife Habitat Conservation Areas

The Project site does not include any mapped fish or wildlife conservation areas.

Frequently Flooded Areas

The Project site is not within a floodway, 100-year floodplain, or any other frequently flooded areas or flood zones.

Geologically Hazardous Areas

The Project site does not include any geologically hazardous sites.

i. Approximately how many people would reside or work in the completed project?

No residential units are associated with the Project. One to two people would work at the facility on a daily basis. An average of approximately 40 people, depending on the season and call frequency would work intermittently at the completed site on a call by call basis.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not applicable.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The existing land use supports the KCSR and EOC current operations and compliments the adjacent Cle Elum Airport and DNR Wildland Firefighter Camp land uses. The Project is consistent with Kittitas County's Multi-Jurisdictional Hazard Mitigation Plan Volume 1 and Volume 2 (Kittitas County 2019).

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term

commercial significance, if any:

Not applicable.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The tallest structure will be the communication tower at approximately 180 feet tall. The tallest building will be the drive through vehicle bay at approximately 26 feet high. The building will be used for parking vehicles and will likely have a steel exterior.

b. What views in the immediate vicinity would be altered or obstructed?

Views in the immediate vicinity of the Project site would be altered as the site will be converted from a vacant forested site to a business facility site. The constructed site will be consistent with surrounding views such as the Cle Elum Municipal Airport to the north and the DNR Training Facility, which is used for training wildland fire staff, to the east of the Project site.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Where possible, existing trees and shrubs will be left in place. The perimeter of the site will remain vegetated, and landscaping may occur if needed.

The building colors will be neutral or earth tones to complement the surrounding landscape.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The Project includes indoor lighting, fixed outdoor lighting, and lighting from vehicles. Lighting would mainly occur from dusk until dawn and would be directed downward into the site to minimize light pollution.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

It is not anticipated that light or glare could be a safety hazard although the addition of lighting in an area where none previously existed may interfere with views.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

Outdoor lighting will be angled downward to reduce light or glare impacts.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Although upper Kittitas County provides many recreational opportunities, there are no recreational opportunities accessible in the immediate vicinity of the Project site.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No, there are no recreational uses in the immediate vicinity of the Project.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Not applicable. No impacts to recreation will occur.

13. Historic and cultural preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

A well house occurs on the site which first appears on aerial imagery in 1954. A cultural resource evaluation recommends the structure not eligible for listing in the National Register of Historic Places (NRHP) due to deterioration of the materials of the pump house as well as lack of significance and integrity (Jacobs 2023b).

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

The discovery of human remains, or cemeteries did not occur during the cultural resources inventory conducted by Jacobs archaeologists.

Two historic debris scatters were noted on the surface within the Area of Potential Effect (APE). Two subsurface probes were positive for cultural material. These two shovel test probes include three precontact lithic flakes and one hand blown amethyst glass. A grid of shovel test probes identified a heavily disturbed context surrounding both positive shovel test probes. The two historic debris scatters and one multicomponent site was recommended as not eligible and the 2023 report recommended a finding of no historic properties affected (Jacobs 2023b).

Jacobs archaeologists conducted a cultural resources study and drafted a report: *Cultural Resources Assessment Search and Rescue Building Project, Kittitas County, Washington* (Jacobs 2023b). Previous professional studies conducted within 1.0 mile of the APEs are shown in the table below.

Report No.	Year	Author	Title	Distance from APE (miles)	Resources
1341999	1997	Fennelle, Miller	1997 Cultural Resource Surveys of Plum Creek Timber Company, L.P.'s Proposed Timber Harvests	0.40	45KT01359
1681189	2011	Amara, Mark	John Hein Cultural Resources Site Identification Survey	0.61	None
1341891	2001	Wilt, Julie	Results of a Cultural Resources Survey of the Bonneville Power Administration's Yakima River Side Channel Project Area	0.62	None

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Methods used to assess the potential impacts to cultural and historic resources included a records and literature review as well as field investigations. The literature review included:

- **Washington Information System for Architectural and Archaeological Records Data database**
- **Bureau of Land Management General Land Office historical maps**
- **U.S. Geological Survey topographic maps**
- **Metsker maps**
- **Aerial maps**
- **Natural Resources Conservation Service maps**

Field investigations included surface pedestrian and subsurface surveys across the entire proposed APE. Specific field methods are described in the Cultural Resources Assessment Report (Jacobs 2023b).

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

Per the management recommendations described in the Cultural Resources Assessment Report, the institution of an inadvertent discovery plan is recommended (Jacobs 2023b).

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The Project site will have access from Airport Road. An additional access point will be located on the Cle Elum Municipal Airport access. See Attachment 2.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

The site is not directly served by public transit. The nearest transit service is provided by Kittitas County Connector (HopeSource) and is in Cle Elum approximately 4 miles to the west.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

The Project will provide up to 16 parking spaces within the facility lot. No parking spaces will be eliminated.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

The Project will improve the airport access, a private driveway, bringing it up to private road standards (KCC 12.04.070).

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

Transportation to the Project site would primarily utilize Kittitas County roads.

The Project occurs in the vicinity of the Cle Elum Municipal Airport which is a public airport.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No. The Project would increase public services available in the area by providing emergency search and rescue and emergency operation services.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _

Kittitas County Public Utility District serves the area; poles are exiting adjacent to site. No utility connections are currently available at the site.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Electricity, telephone, fiber optic, water, septic, satellite and/or radio communication utilities will be needed for the Project.

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Name of signee Josh Fredrickson

Position and Agency/Organization Public Works Director, Kittitas County Public Works

Date Submitted: 24/Apr/2024

City of Cle Elum

Critical Areas

Application Packet

City of Cle Elum, Planning Division
119 West First Street, Cle Elum, WA 98922
Phone#: (509) 674-2262 Email: planning@cleelum.gov

LAND USE APPLICATION

CITY OF CLE ELUM, PLANNING DEVELOPMENT

119 WEST FIRST STREET, CLE ELUM, WA 98922

PHONE: (509) 674-2262 EMAIL: planning@cleelum.gov

INSTRUCTIONS – PLEASE READ FIRST Please type or print your answers clearly.

Answer all questions completely. If you have any questions about this form or the application process, please ask a Planner. Remember to bring all necessary attachments and the required filing fee when the application is submitted. The Planning Division cannot accept an application unless it is complete and the filing fee paid. Filing fees are not refundable. ***Consulting fees may apply.***
This application consists of four parts. PART I - GENERAL INFORMATION AND PART IV – CERTIFICATION are on this page. PART II and III contain additional information specific to your proposal and MUST be attached to this page to complete the

PART I – GENERAL INFORMATION

1. Applicant's Information:	Name:	Kittitas County Public Works					
	Mailing Address:	411 N. Ruby St., Suite 1					
	City:	Ellensburg	St	WA	Zip	98926	Phone: ( )
	E-Mail:	kelee.hodges.pw@co.kittitas.wa.us					
2. Applicant's Interest in Property:	Check One:	☒ Owner	☐ Agent	☐ Purchaser	☐ Other _____		
3. Property Owner's Information (If other than Applicant):	Name:						
	Mailing Address:						
	City:		St		Zip		Phone: ( )
	E-Mail:						

4. Subject Property's Assessor's Parcel Number(s): 962113

5. Legal Description of Property. (if lengthy, please attach it on a separate document)
Parcel 2 of Cle Elum Municipal Airport Short Plat

6. Property Address: xxxx Airport Rd, Cle Elum, WA 98922

7. Property's Existing Zoning:

8. Type Of Application: (Check All That Apply)

☒ Critical Areas Review ☒ Environmental Checklist (SEPA Review)

☐ Shorelines ☐ Other _____

PART II – SUPPLEMENTAL APPLICATION, PART III – REQUIRED ATTACHMENTS, & PART IV – NARRATIVE

SEE ATTACHED SHEETS

PART V – CERTIFICATION

I certify that the information on this application and the required attachments are true and correct to the best of my knowledge.

Property Owner's Signature **Date**

Kelee Hodges — **Applicant's Signature**

6/4/24 — **Date**

FILE/APPLICATION(S)#

DATE FEE PAID:	RECEIVED BY:	AMOUNT PAID:	RECEIPT NO:

Critical Areas Identification Form

CITY OF CLE ELUM, PLANNING DEPARTMENT

119 WEST FIRST STREET, CLE ELUM, WA 98922

PHONE: (509) 674-2262 EMAIL: planning@cleelum.gov

This form is intended to provide a sufficient level of information that, when combined with a site inspection, the Administrative Official can make an informed determination as to whether or not critical areas are present on the site, and whether or not the proposed activity will impact those critical areas. A "yes" response to any single question on the identification form does not necessarily indicate that further critical area review is required. **The Administrative Official will evaluate all the information provided on the form, in conjunction with the information provided with the initial permit application, to determine if further investigation is needed and whether completion of a critical area report is warranted**. In some instances, a preliminary report prepared by an environmental professional may be appropriate. If a buffer reduction is necessary for your project, a separate review will be required and a separate fee will be charged.
Some of the questions listed here require locating the project area on reference maps. The City of Cle Elum has various maps on file, i.e. the FEMA Floodplain Map. Maps from other federal, state, and local agencies may also be used as indicators.

PART II - APPLICATION INFORMATION

A. Project Information

1. Name of project.

Kittitas County Search and Rescue/ EOC

2. Name and address of applicant. Kittitas County Public Works
411 N. Ruby St., Suite 1
Ellensburg, WA 98926

3. Name and address of individual completing the identification form and their environmental/technical expertise/special qualifications.

Kelee Hodges — Environmental/Transportation Planner
411 N. Ruby St., Suite 1

4. Date the identification form was prepared.

May 14, 2024

5. Location of the proposed activity (street address and legal description).

XXXX Airport Rd
Cle Elum, WA 98922

6. Give a brief, complete description of the proposed activity, including extent of proposed activities, and impervious surface areas.

Construct regional facility for search and rescue operations along with an emergency operations center. Project is located on 5 acres south of Cle Elum Airport. Impervious surface is estimated to be 36,500 s.f. for parking lot and building of 11,900 s.f.

7. Describe the limits of the project area in relation to the site (*for example, "the project area will extend to within 50 feet of the north property line"*), including the limits of proposed clearing and construction activity.

Grading; clearing and grubbing, paving, domestic well, on-site septic construction, foundation, and building installation. An access will be installed on the southwest portion of the property.

B. General Questions That May Be Applicable To All Areas

1. What is the U.S. Department of Agriculture soil classification of the soil found on site?

Teanaway ashy loam and Patnish Mippon-Myzel complex.

2. What types of soils are found on the site (for example, clay, sand, gravel, peat, muck)?

Loamy soils

3. What types of vegetation are found on site? Cattail, buttercup, bulrush, skunk cabbage, water lily, eelgrass, milfoil?

Evergreen trees; fir, cedar, pine. Shrubs and grass. Wet soil plants such as cattail, buttercup, bullrush, skunk cabbage.

4. Describe any vegetation proposed to be planted as part of the project.

Native plants will be planted according to landscape requirements.

5. Give a brief, complete description of existing site conditions, including current and past uses of the property as well as adjoining land uses.

Existing site conditions are undeveloped land with trees.

6. Will the project include installation of an on-site septic system?

Yes

7. What is the proposed timing and schedule for all multi-phased projects?

Site development will begin in the fall of 2024 with land clearing, including grading, paving, well and onsite septic construction. Metal building the end of 2024 with completion by end of 2025.

8. Do you have any plans for future additions, expansion, or related activity? If yes, explain.

Search and Rescue will occupy facility upon building completion. Future funding will allow the build out of the interior of the building for the Emergency Operations Center. (EOC)

9. Have any critical areas or protection easements been recorded on the title of the property or adjacent properties?

No.

10. Will your project require review under the State Shoreline Management Act or the State Environmental Policy Act?

Yes, SEPA will be reviewed.

11. Is the site within the 100-year flood plain on flood insurance maps published by the Federal Emergency Management Agency (FEMA), or on other local flood data maps?

No.

12. Describe any surface water and watercourses, including intermittent streams, drainage channels, ditches, and springs, located on site or within one-half mile of the site. If appropriate, provide the names of the water bodies to which the streams flow.

A possible wetland was identified with an Aquatics Memo being prepared by Jacobs Engineering.

13. Indicate the topography of the site (shallow areas often retain water and may be wetlands, although wetlands may also occur on slopes).

A depressional palustrine scrub shrub and palustrine forested wetland appears on the southern and lowest portion of the parcel.

14. How will stormwater from the project be managed?

A 14,000 s.f. pond will be installed to convey runoff from adjacent area catch basins. Infiltration and treatment through site soils, preventing flow into other waters.

15. Is development proposed to be clustered to reduce disturbance of critical areas?

Development of site will be outside suspected wetland boundary.

16. Will this project require other government approvals for environmental impacts?

- ☐ Hydraulic Project Approval (HPA) (Washington Department of Fish and Wildlife)
- ☒ Water quality certification [(Washington State Department of Ecology (Ecology)).
- ☐ National Pollutant Discharge Elimination System (Ecology).
- ☒ Municipal or health district wastewater/septic approval (Ecology).
- ☒ Water Use Permit; Certificate of Water Right (Ecology).
- ☐ U.S. Army Corps Section 404 or Section 10 Permits.
- ☒ Forest Practices Permit (Washington State Department of Natural Resources (DNR)).
- ☐ Aquatic Lands Lease and/or Authorization (DNR).
- ☐ Shoreline development, conditional use, or variance permit (local jurisdiction).
- ☒ Other NEPA-CE (FEMA)

C. Available Information

1. Has a critical area review, or other environmental review, been conducted for another project located on or adjacent to the site? List any environmental information known to have been prepared, or expected to be prepared, relating to this proposal or project area.

No

D. Wetlands

1. Is there any evidence of ponding on or in the vicinity of the site?

No ponding has been observed on-site.

2. Does the proposed activity or construction involve any discharge of waste materials or the use of hazardous substances?

No.

E. Critical Aquifer Recharge Areas

1. What is the permeability (rate of infiltration) of the soils on the site? (Note: *General information for this question and the following question can be found in the Guidance Document for the Establishment of Critical Aquifer Recharge Area Ordinances, 2000, Ecology Publication #97-30*).

2. What is the annual average precipitation in the area?

3. Is there any evidence of groundwater contamination on or in the vicinity of the site?

No.

4. Is there any groundwater information available from wells that have been dug in the vicinity? If so, describe, including depth of groundwater and groundwater quality.

No.

5. Does the proposed activity or construction involve any discharge of waste materials or the use of hazardous substances?

Construction may require the use of hazardous materials. BMP's will be in place when storing or using hazardous materials.

F. Frequently Flooded Areas

1. Is the site, or a portion of the site, at a lower elevation than surrounding properties?

No.

G. Geological Hazard

1. Generally describe the site: Flat, rolling, hilly, steep slopes, mountainous, other.

Flat and steep slopes.

2. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill material.

A total of approximately 5,400 CY. of excavation will be required. 1,060 CY of excavation for building footing and foundations and 4,400 SF of excavation is anticipated for the stormwater pond, ditch and access construction

3. What is the steepest slope on the property? 44%

4. Is the area mapped by Ecology (Coastal Zone Atlas) or the Department of Natural Resource (slope stability mapping) as unstable ("U" or class 3), unstable old slides ("UOS" or class 4), or unstable recent slides ("URS" or class 5)?

No.

5. Is the area designated as quaternary slumps, earthflows, mudflows, lahars, seismic hazard, or landslides on maps published by the U.S. Geological Survey or Dept. of Natural Resources?

No

6. Is there any indication of past landslides, erosion, or unstable soils in the vicinity?

No.

7. Is erosion likely to occur as a result of clearing, construction, or use?

No.

8. Are soils proposed to be compacted?

Yes.

9. Are roads, walkways, and parking areas designed to be parallel to natural contours?

Yes.

H. Habitat

1. List any birds, mammals, fish, or other animal species found in the vicinity of the site, including those found during seasonal periods.

Hawk, eagle, songbirds, deer, elk

2. Is the site or areas in the vicinity used for commercial or recreational fishing, including shellfish?

No.

3. Is the area designated an Area of Special Concern under on-site sewage regulations to protect shellfish or the general aquatic habitat?

No.

4. Are any natural area preserves or natural resource areas located within 500 feet of the site?

No.

5. Is the site part of a migration route?

No.

6. Are any priority habitat areas, as shown on maps published by the WA Dept. of Fish & Wildlife, within one-half mile of the site? If so, describe type of habitat and distance from project area.

No.

7. Are any of the following located on or adjacent to the site?

☐ Aspen stands	☐ Estuary and estuary like areas	☐ Juniper savannah
☐ Caves	☐ Marine/estuarine shorelines	☐ Prairies and steppe
☐ Cliffs	☐ Vegetative marine/estuarine areas	☐ Riparian areas
☐ Shrub-steppe	☐ Old-growth/mature forests	☐ Instream habitat areas
☐ Snags or logs	☐ Oregon white oak woodlands	☐ Rural natural open spaces
☐ Talus	☐ Freshwater wetlands and fresh deepwater	☐ Urban natural open spaces

8. Does the proposal involve any discharge of waste materials or the use of hazardous substances?

Construction may require the use of hazardous materials. BMP's will be in place when storing or using hazardous materials.

9. What levels of noise will be produced from the proposed activity or construction?

During construction; equipment may include dozers, chain saws, pickups, compressors, graders, rollers, excavators, dump trucks, front loaders and generators.

10. Will light or glare result from the proposed activity or construction?

Project includes indoor lighting, fixed outdoor lighting and lighting from vehicles. All exterior lights will be facing downward.

III. REQUIRED ATTACHMENTS

1. Are there any existing environmental documents for the subject property? Yes

2. Provide a detailed site plan which includes all the required items on the Site Plan Checklist, along with the extent and nature of on-site and off-site Critical Areas and the relationship of the project to those Critical Areas.

Jacobs

Memorandum

32 North 3rd Street
Yakima, WA 98901, USA
www.jacobs.com

To:	Mark Cook, Kittitas County Public Works
From:	Jen Bader, Jacobs
Date:	August 18, 2023
Subject:	**Kittitas County Search and Rescue Facility - Aquatic Resources Summary**

PURPOSE

Kittitas County is constructing a regional facility housing search and rescue (S&R) along with an emergency operations center. The property where this is planned is approximately 5 acres and is located at the Cle Elum Municipal Airport in Kittitas County, Washington State in Section 30, Township 20 North, Range 16 East, Willamette Meridian, at 46.952243° N latitude, 120.530794° W longitude (Attachment A, Figure 1). Site access will occur off of Airport Road and the access road to the Cle Elum Municipal Airport.

The purpose of this memorandum is to provide a summary of aquatic resource inventory efforts within the study area (Attachment A, Figure 2). The study area consisted of parcel 2 of the Cle Elum Municipal Airport Short Plat (parcel number 962113).

METHODS

Jacobs biologists performed a background review of the following resources to gather information about environmental conditions.

- National Oceanic and Atmospheric Administration Regional Climate Centers AgACIS precipitation data
- Natural Resources Conservation Service (NRCS) Web Soil Survey
- U.S. Fish and Wildlife Service National Wetland Inventory (NWI) Wetlands Mapper
- U.S. Geological Survey National Hydrography Dataset (NHD)
- The Northwest Indian Fisheries Commission Statewide Integrated Fish Distribution Web Map
- Central Washington University 1954 aerial imagery

Jacobs biologists assessed the conditions of the study are and delineated the boundaries of wetlands and the ordinary high water mark (OHWM) of a stream on August 20 and 27, 2023. Wetlands were delineated using methods described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)*. This methodology uses the triple-parameter approach by evaluating vegetation types, soils indicators, and hydrology indicators.

All wetlands within the study area were rated using the *Washington State Wetland Rating System for Eastern Washington – 2014 Update.* This system categorizes wetlands from I to IV based on a composite scoring of landscape opportunity, potential for water quality function, hydrologic function, and habitat function. Wetland ratings were approximated using this data. If it is determined the Project will have wetland impacts, this data can be used in the future to rate the wetlands.

An unnamed ephemeral drainage on the east side of the Cle Elum Airport access road was delineated within the parcel using methods described in the Corps of Engineers *A Guide to Ordinary High Water Mark (OHWM) delineation for non-perennial streams in the Western Mountains, Valleys, and Coast Region of the United States* and the *Department of Ecology's Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State*. Drainages within the study area were examined for hydrology indicators including bed, bank, OHWM, flow regime in a typical year, and the presence of macroinvertebrates using the Environmental Protection Agency's *Streamflow Duration Assessment Method for the Pacific Northwest*.

EXISTING CONDITIONS

The study area consists primarily of upland forest with one wetland and an unnamed ephemeral drainage (Attachment A, Figure 2). The site is bisected by the access road for the Cle Elum Municipal Airport with the unnamed drainage occurring east of the road and the wetland occurring west of the road.

Precipitation data indicates the three months preceding the site visit were below average compared to historical "normal" conditions.

The NRCS web soil survey indicates one soil types occurs within the study area, Teanaway ashy loam, which is formed from loess with volcanic ash components, overlying glacial till.

NHD indicates there is an unnamed stream, which DNR identified as a type 'F' (fish-bearing) on the east side of Cle Elum Airport access road. NWI maps the drainage as Riverine Intermittent Streambed Seasonally Flooded (R4SBC). There are no mapped floodplains within the parcel.

DELINEATION RESULTS

Wetlands

Jacobs biologists delineated one wetland, Wetland 1, within the study area (Figure 2, Attachment B, Photographs 1 and 2). Wetland 1 is approximately 0.42 acres and adjacent to Airport Road. Wetland 1 is primarily a depressional palustrine scrub shrub and palustrine forested wetland that appears to have formed after the road was constructed which limited drainage from the site. Refer to Attachment C for Corps Wetland Determination Data Forms and Attachment D for the Study Area Plant List.

Table 1. Wetland Summary

Wetland	Size (Approx. Acreage)	Jurisdictional[1]	Cowardin Vegetation Classification[2]	HGM Class	Likely Ecology 2014 Rating Category
1	0.42	Likely	PSS/PFO	Depressional	III

Notes:
HGM = Hydrogeomorphic
PSS = palustrine scrub shrub; PFO = palustrine forested
[1]The findings presented regarding regulation under the CWA represents our best professional judgement. However, the Corps and Ecology make the official jurisdictional determinations, which may differ from the findings presented above based on their evaluation of surface water connectivity and significant nexus.
[2]U.S. Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979).

Wetland Buffer

Kittitas County Code (KCC) Table 17A.07.030: Standard Buffer Widths states that Category III wetlands are required to have a standard buffer width of 75 feet for land use with low impact, 110 feet for land use with moderate impact, and 150 feet for land use with high impact. The current land use adjacent to and within the wetland buffer is public roadway to the south, residential to the south and east and forested on the west and north. Dominant vegetation within the buffer is ponderosa pine (*Pinus ponderosa*) and mountain balm (*Ceanothus velutinus,*) (Attachment B, Photographs 3 and 4; Attachment D).

Watercourses

While DNR indicates the unnamed drainage is fish bearing and NHD maps it as intermittent within the study area, the site assessment indicated this drainage is ephemeral (Attachment E) with no water or fish presence at the time of the survey. When water is present, this drainage flows from north to south. The drainage has a low gradient, meandering through the eastern side of the parcel with upland vegetation growing within the channel (Attachment B, Photographs 5 through 8). The streambed material consists of cobbles and fine sediment. This unnamed drainage was classified during the site visit as a "Type Ns Water" per Kittitas County Code 17A.02.750. Type Ns Waters are seasonal, non-fish habitat streams in which surface flow is not present for at least some portion of a year of normal rainfall and are not located downstream from any stream reach that is a Type Np, F or S Water. Water type determination was based on the stream size, presence/absence of water flow, and the physical criteria needed to be potentially used by fish. Type Ns streams have a 50-foot Riparian Management Zone and Buffer width within the Cascade Ecoregion (KCC Table 17A.04.030.4).

LIMITATIONS

This report was prepared for the exclusive use of the County and their representatives. Jacobs prepared the findings and conclusions documented in this report for specific application to this Project. The conclusions and recommendations presented in this report are the professional opinions based on interpretation of information currently available and made within the operational scope, budget, and schedule constraints of this Project. No warranty, expressed or implied, is made.

Abbreviations

WSDOT	=	Washington State Department of Transportation
KCC	=	Kittitas County Code
HMA	=	Hot Mix Asphalt
CSBC	=	Crushed Surfacing Base Course
CSTC	=	Crushed Surfacing Top Course
R	=	Right
L	=	Left
'	=	Foot/Feet
ft	=	Foot/Feet
"	=	Inch/Inches
LS	=	Lump Sum
CY	=	Cubic Yard
EST	=	Estimate
LF	=	Linear Feet
ADA	=	Americans with Disabilities Act
MUTCD	=	Manual on Uniform Traffic Control Devices
TESC	=	Temporary Erosion and Sediment Control
Std.	=	Standard Provision
Sp.	=	Special Provision
LWM	=	Large Woody Material
TYP	=	Typical
MPH	=	Miles per Hour
CL	=	Center Line
OHWM	=	Ordinary High Water Mark
ROW	=	Right of Way
ESC	=	Erosion Sediment Control
SPCC	=	Spill Preventions Control and Countermeasure
TCE	=	Temporary Construction Easement
CP	=	Control Point
SCR	=	Section Corner
MON	=	Monument

Existing Legend

= County Right of Way/Property Line
= Existing Contour
= Existing Edge of Asphalt
= Existing Edge of Gravel
= Existing Gravel
= Existing Road Centerline
= Existing Fence
= Existing Guardrail
= Existing Overhead Power
= Existing Underground Communications
= Existing Underground Fiber Optics
= Existing Waterline
= Existing Grouped Vegetation
= Existing Mailbox
= Existing Telephone/Cable Riser Box
= Existing Tree
= Existing Power Pole
= Existing Guyline Anchor
= Existing Sign
= Existing Water Valve
= Existing Section Corner
= Existing Building
= Existing Vegetation

Proposed Legend

= Proposed Contour
= Proposed Edge of Asphalt
= Proposed Asphalt
= Proposed Edge of CSBC
= Proposed CSBC
= Proposed Concrete
= Proposed Road Centerline
= Proposed Fence
= Proposed Guardrail
= Proposed Straw Wattle
= Proposed TCE Limits
= Graded Native Material

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Airport Rd

Upper County
Search and Rescue

4/10/2024

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Entered By:	C. Curtis
County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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FROM THE CASCADES... TO THE COLUMBIA KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

General Notes

GE-01 | 01 / 22

General Notes

The basis for control of work shall be as follows:

A. It is the responsibility of the contractor to have an approved set of plans and any necessary permits on the job site wherever work is being accomplished.

B. The County shall have the authority to enforce these plans and specifications, as well as all other referenced or pertinent specifications. The County Engineer will appoint designees, project engineers, assistants, and inspectors as necessary to inspect the work, and they will exercise such authority as the County Engineer may delegate.

C. It is the responsibility of the contractor to notify the county in advance of beginning work on any project. A pre-construction meeting and/or field review shall be required before the commencement of work.

D. Failure to comply with the provisions of these plans and specifications may result in stop work orders, removal of work accomplished, or other penalties as established by law.

E. All stationing is based on centerline of roadways unless otherwise noted.

F. All cross sections are oriented looking up station unless otherwise noted.

G. It is the contractor's responsibility to contact all utility companies in order to assure that all lines, conduits, poles, vaults, and other appurtenances are properly located.

Construction Notes

Construction sites shall be maintained for access, accessibility, and safety at all times. Site maintenance activities shall include, but are not limited to the following:

A. On existing roads, two-way traffic and all existing lanes of traffic shall be maintained at all times unless detour and/or traffic control plans have been approved in advance by the County Engineer. See KCC 12.09.05 for construction traffic control requirements.

B. Roads shall be kept free of dirt and debris.

C. Pedestrian and bicycle facilities shall be kept free of obstructions, and in compliance with ADA guidelines.

D. Drainage facilities shall be maintained to ensure proper function, stormwater, erosion, and sedimentation control devices shall be maintained and fully functional at all times. See KCC 12.06.040 for stormwater requirements.

E. Work for this site will be built in phases as described below. These plans describe the work to be completed for Phase 1 Construction.

E.1. Site Preparation (By Others)
- E.1.1. Clearing and Grubbing
- E.1.2. Rough Grading
- E.1.3. Well Installation

E.2. Phase 1 Construction
- E.2.1. Finished Surfacing
- E.2.2. Utility Build Out
- E.2.3. Building Shell for Search and Rescue

E.3. Phase 2 Construction (By Others)
- E.3.1. Emergency Operations Center Build Out
- E.3.2. Communications Tower Build Out
- E.3.3. Future Shop Building

Airport Rd

Upper County
Search and Rescue

4/12/2024

Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	J. Fredrickson
P.W. Director:	M. Cook

Revision	Date	By

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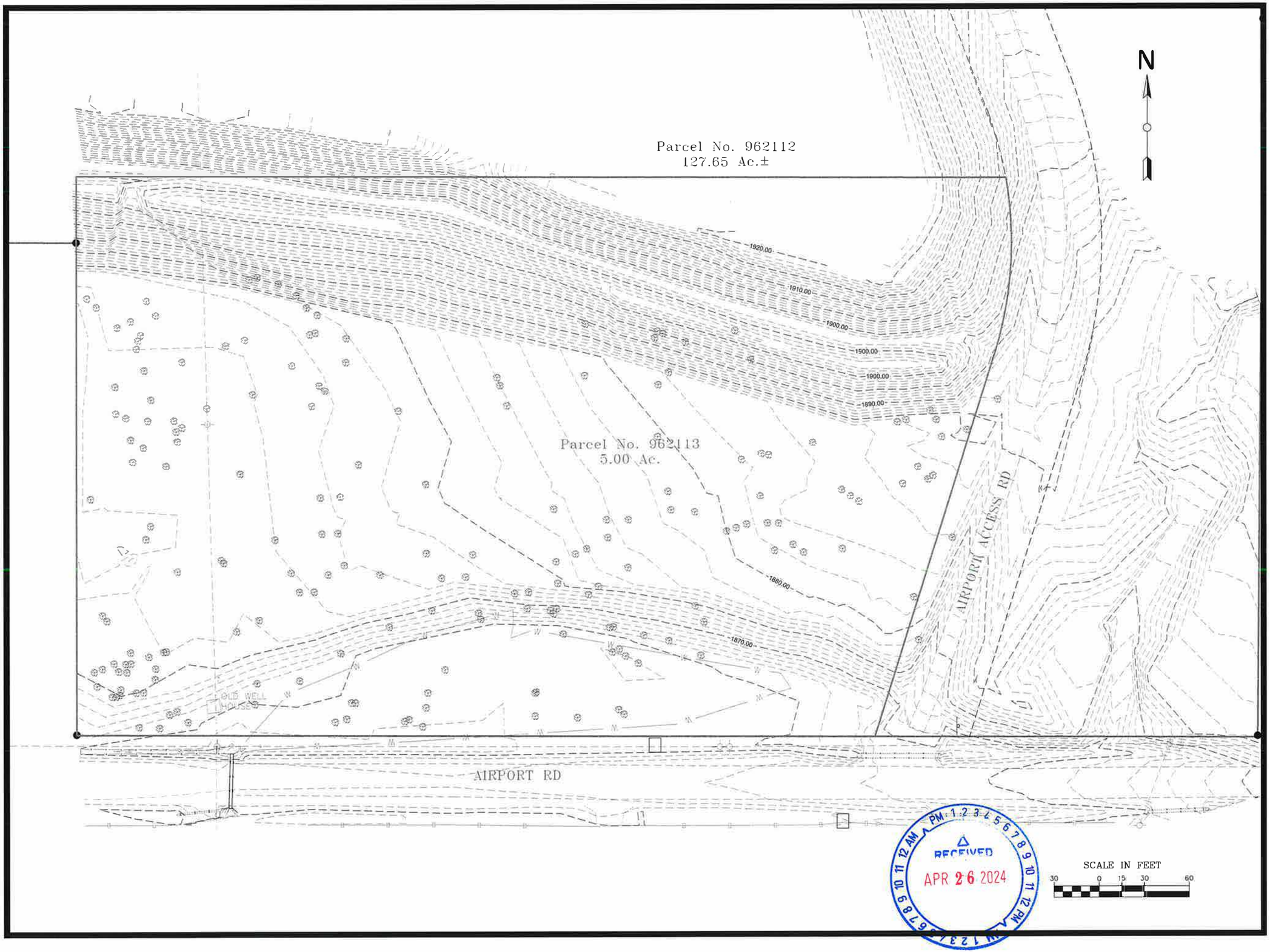
KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

General Notes

GE-02 | 02 / 22



Airport Rd

Upper County

Search and Rescue

4/12/2024	
Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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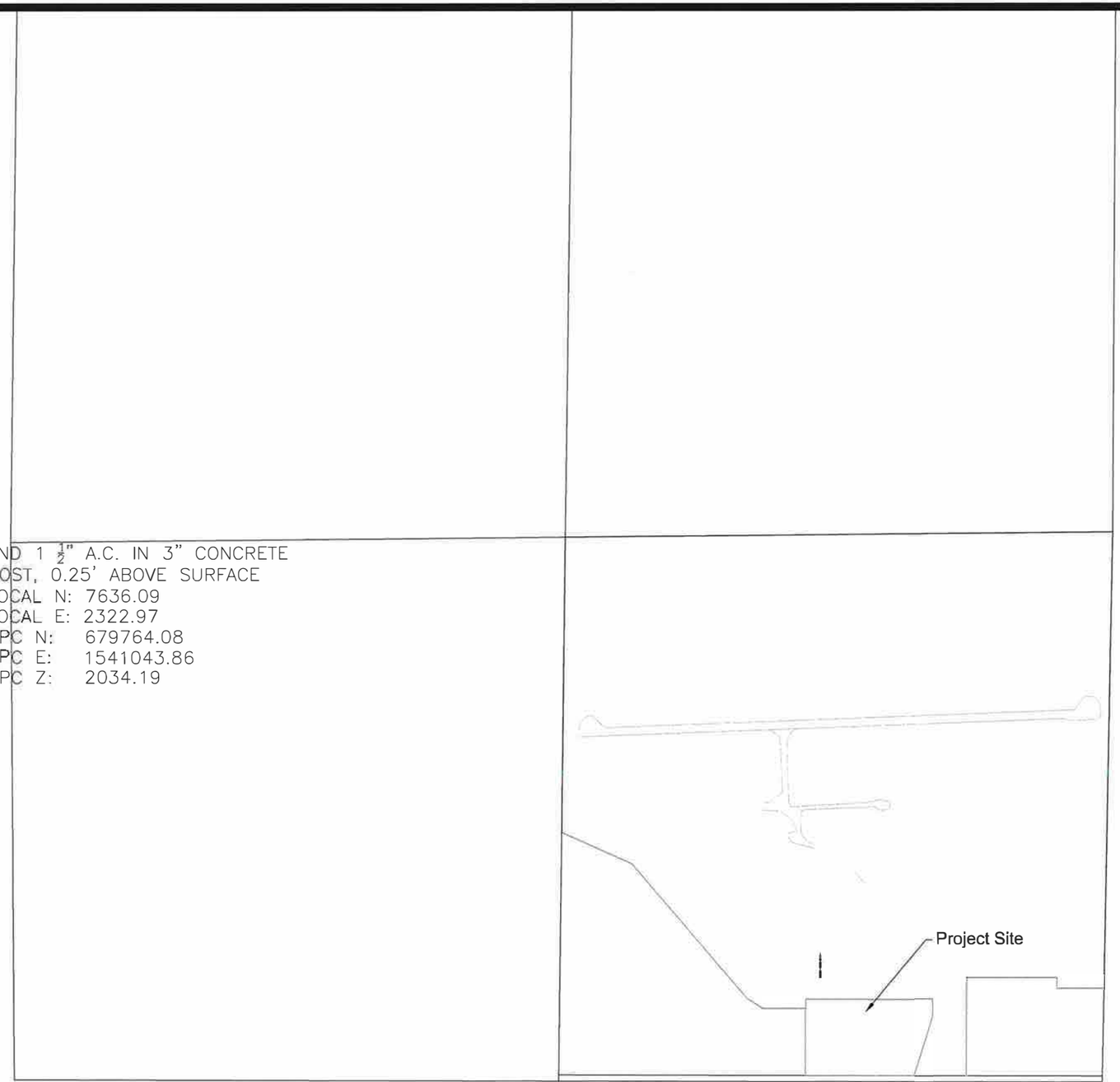
Federal Aid No.

C.R.P. No.

Existing Conditions

EX-01 | 03 / 22



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FND 1 ½" A.C. IN 3" CONCRETE
POST, 0.25' ABOVE SURFACE
LOCAL N: 7636.09
LOCAL E: 2322.97
SPC N: 679764.08
SPC E: 1541043.86
SPC Z: 2034.19

FND ½" A.C. IN CASE 12'
NORTHWEST OF INTX OF
AIRPORT RD AND WHITE RD
LOCAL N: 5006.97
LOCAL E: 2339.67
SPC N: 677135.31
SPC E: 1541060.59
SPC Z: 1879.10

FND 2" A.C. WITH PUNCH IN
CASE–UNREADABLE, 4 IN NORTH OF
AIRPORT RD CENTERLINE
LOCAL N: 5000.00
LOCAL E: 5000.00
SPC N: 677128.32
SPC E: 1543720.58
SPC Z: 1869.86

FND 3/8" REBAR IN HOLE IN AIRPORT RD, 2'
SOUTH OF CENTERLINE
LOCAL N: 4992.10
LOCAL E: 7659.97
SPC N: 677120.47
SPC E: 1546380.22
SPC Z: 1899.79

Airport Rd

Upper County
Search and Rescue

4/12/2024

Designed By:	C. Curtis
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County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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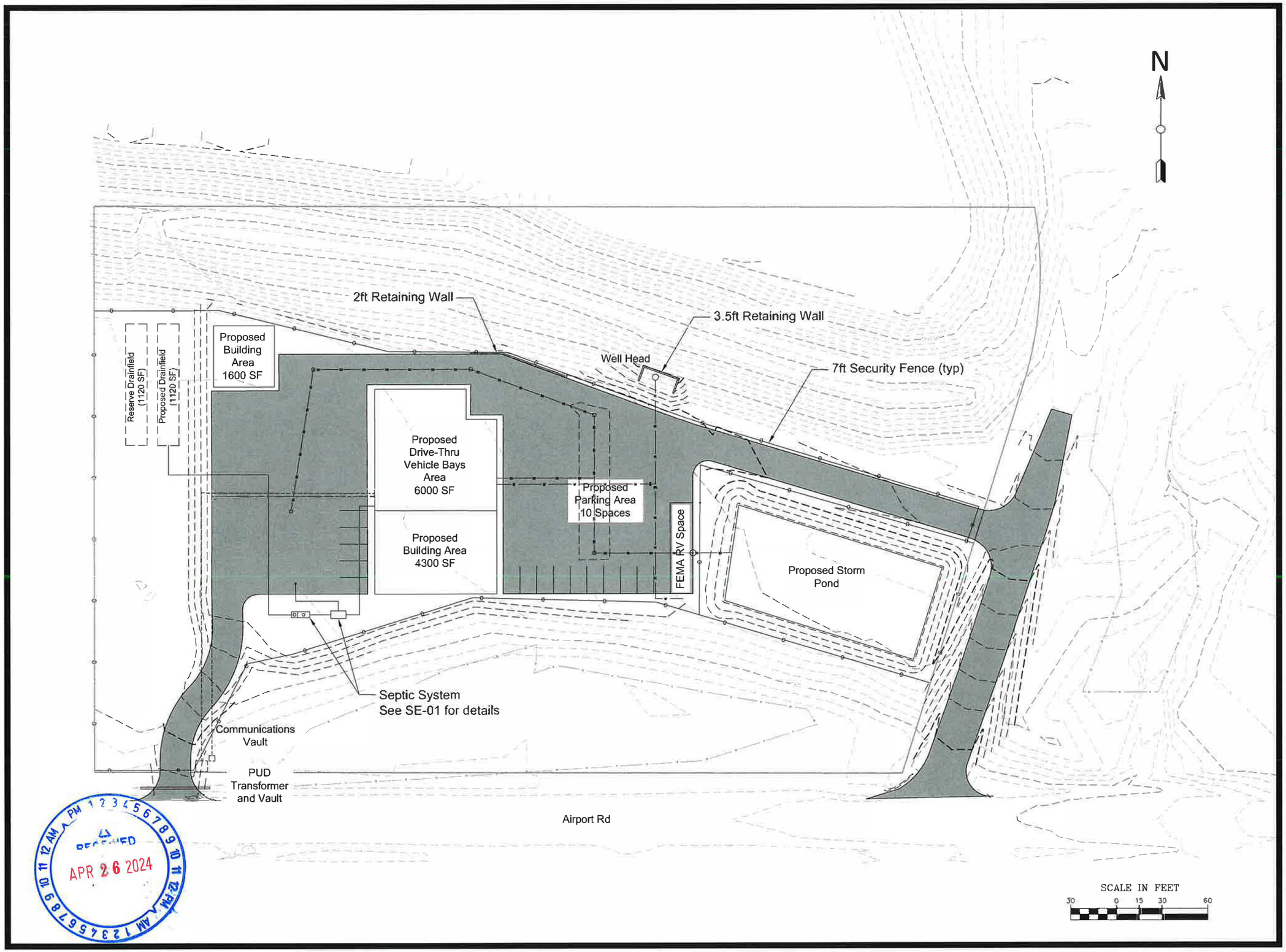
C.R.P. No.

Existing Conditions

EX-02 | 04 / 22



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4/11/2024

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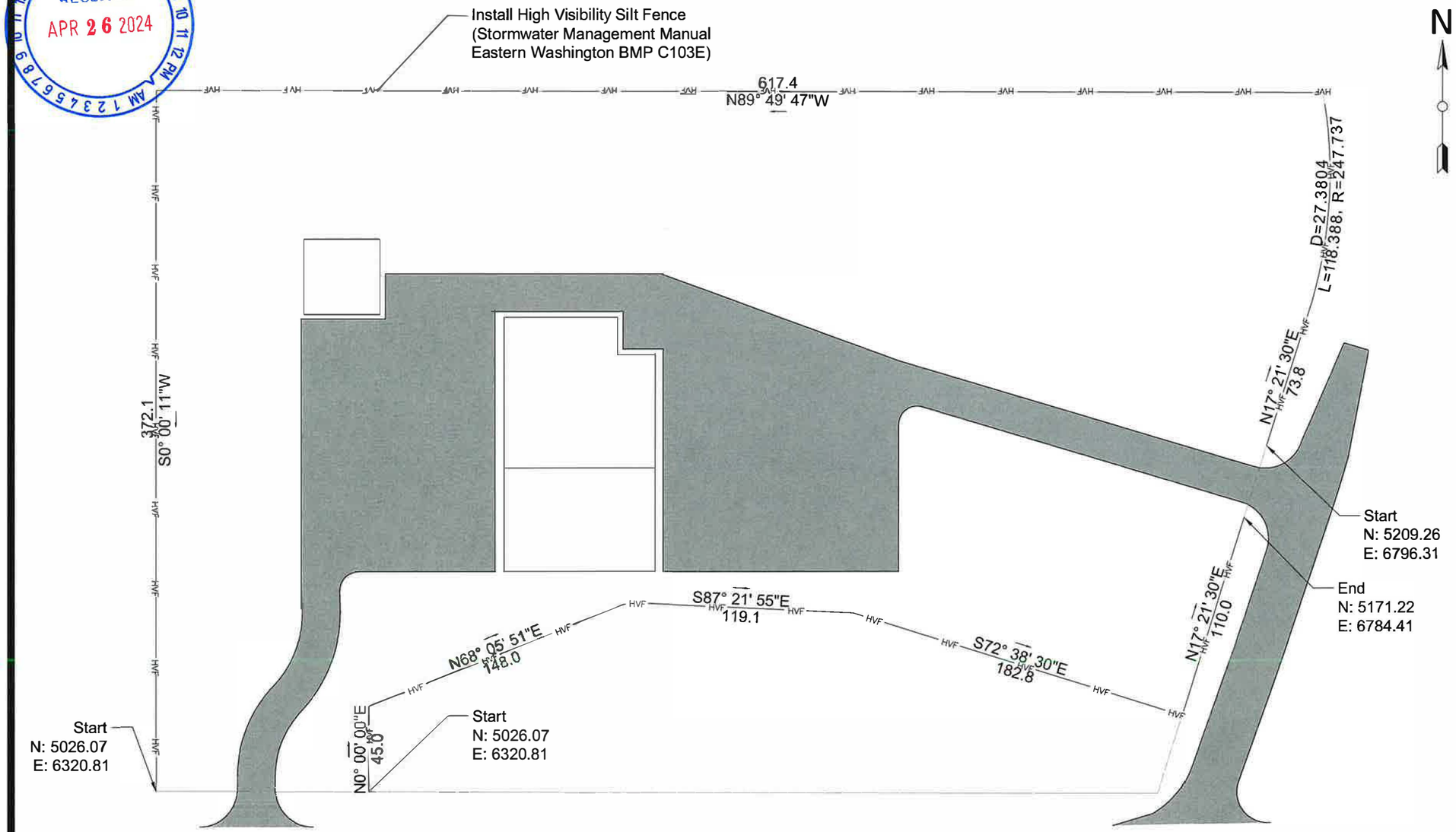
Site Plan

SP-01 | 05 / 22



General Notes

1. Refer to the 2019 Department of Ecology Stormwater Management Manual for Eastern Washington.
2. All sedimentation and erosion control facilities must be in operation prior to any construction activities to ensure that sediment laden water does not enter the natural drainage system. The implementation, maintenance, replacement and additions to the erosion and sedimentation control systems shall be the responsibility of the contractor.
3. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses, additional facilities may be needed to ensure complete siltation control. It is the Contractor's responsibility to address any conditions that may be created by construction activities or changing weather conditions, and to provide additional facilities as may be needed to protect sensitive areas or storm drainage systems.
4. Bearing and Distance values shown as approximate values. Exact location may vary based on site topography and vegetation.

SCALE IN FEET
30 0 15 30 60

Airport Rd

Upper County
Search and Rescue

4/12/2024

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County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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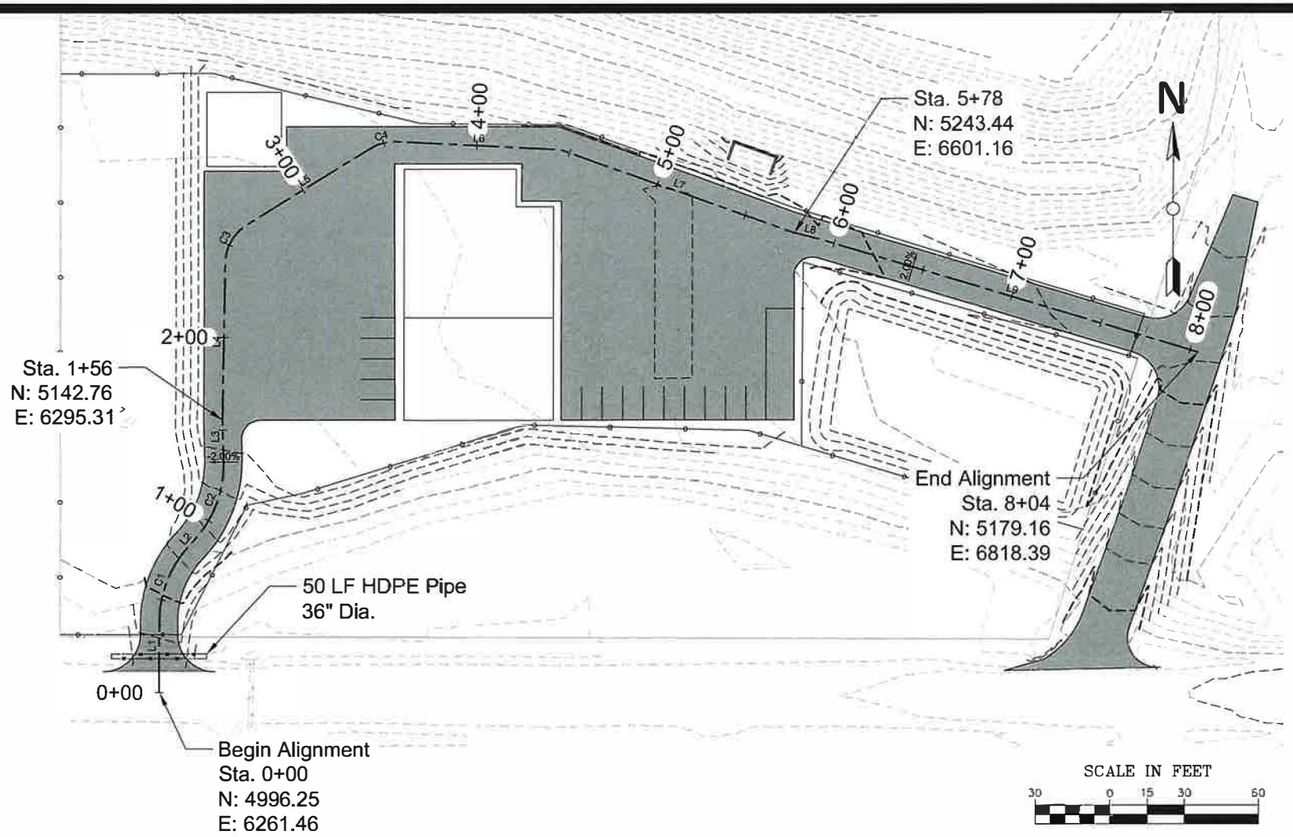
Federal Aid No.	
C.R.P. No.	
TESC	
TE-01	06 / 22



Search and Rescue Drive		
Line #	Length	Direction
L1	38.18	N0° 10' 13.00"E
L2	8.14	N40° 43' 02.23"E
L3	22.49	N1° 30' 11.96"W
L4	84.37	N0° 54' 05.35"E
L5	77.38	N58° 01' 22.06"E
L6	87.40	S87° 08' 06.25"E
L7	133.14	S70° 18' 26.72"E
L8	16.07	S76° 00' 10.16"E
L9	210.49	S73° 19' 34.42"E

Search and Rescue Drive			
Curve #	Radius	Length	Chord Direction
C1	60.00	42.46	N20° 26' 37.62"E
C2	60.00	44.21	N19° 36' 25.14"E
C3	25.00	24.92	N29° 27' 43.70"E
C4	25.00	15.20	N75° 26' 37.91"E

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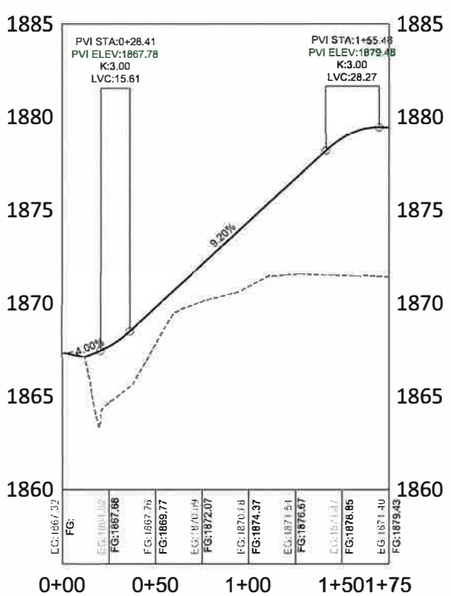
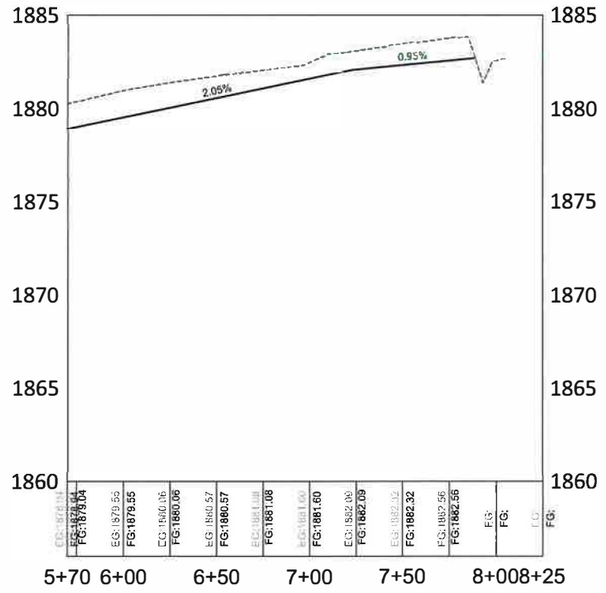
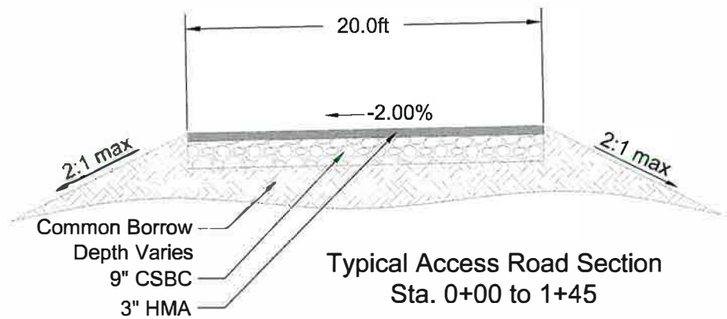
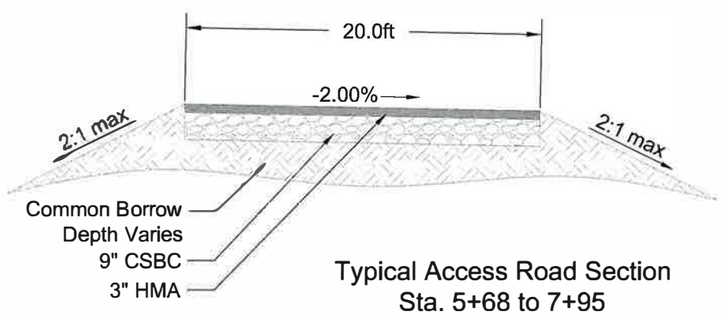






Typical Access Road Section
Sta. 0+00 to 1+45



Typical Access Road Section
Sta. 5+68 to 7+95

Airport Rd

Upper County
Search and Rescue

4/12/2024

Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

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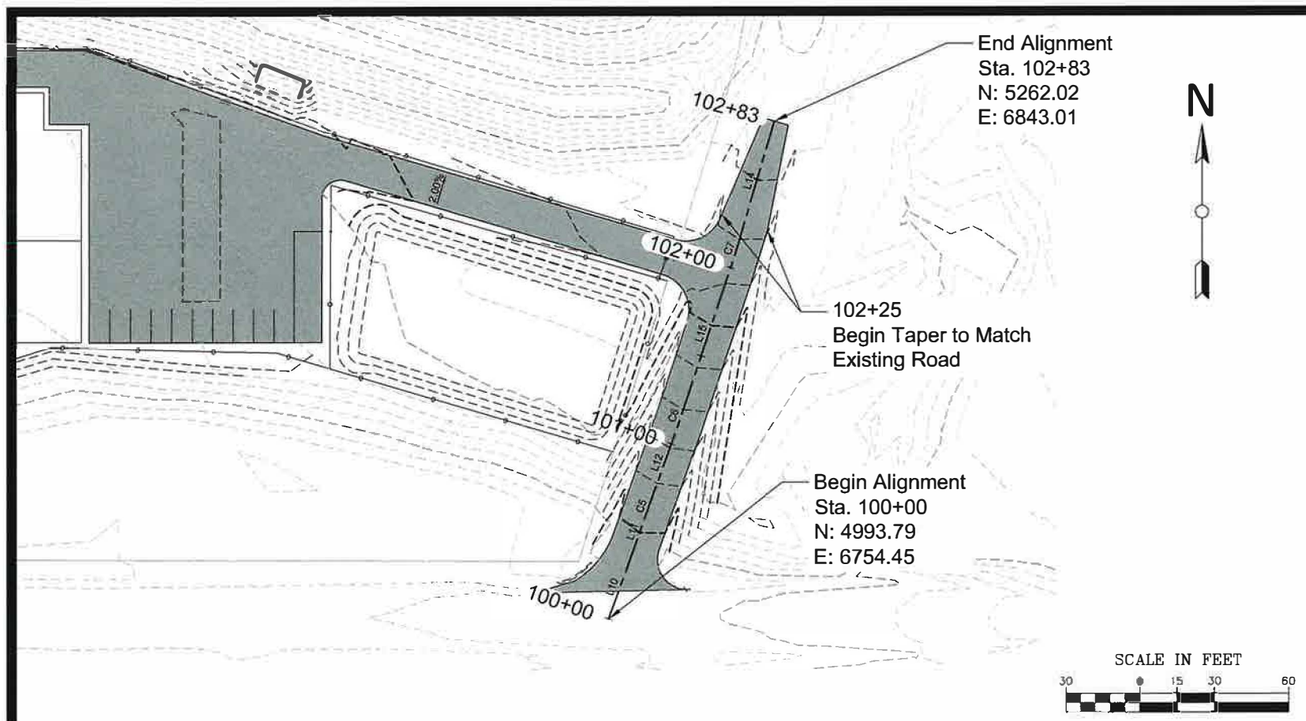
KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

Access Details

AC-01 | 07 / 22



N

SCALE IN FEET
30 15 30 60

Airport Drive		
Line #	Length	Direction
L10	33.96	N19° 36' 00.23"E
L11	28.83	N19° 38' 38.37"E
L12	49.30	N19° 28' 15.13"E
L15	89.28	N18° 17' 47.64"E
L14	69.22	N16° 13' 11.45"E

Airport Drive			
Curve #	Radius	Length	Chord Direction
C5	200.00	0.60	N19° 33' 26.75"E
C6	200.00	4.10	N18° 53' 01.39"E
C7	200.00	7.25	N17° 15' 29.55"E

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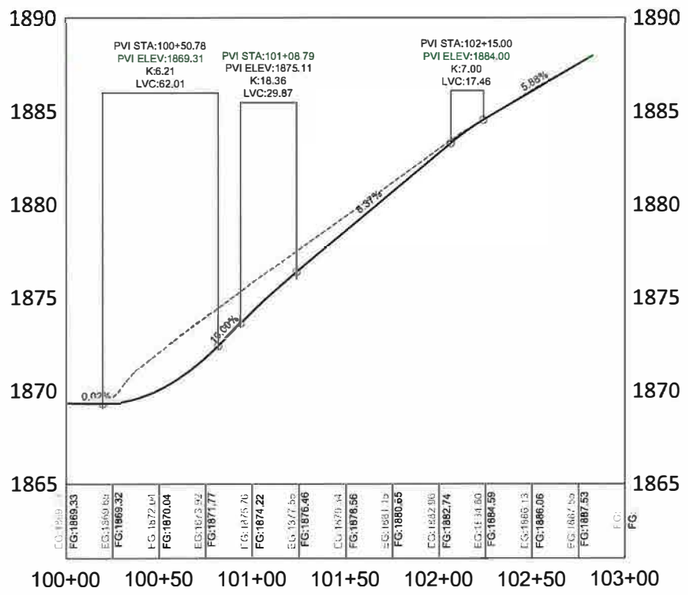

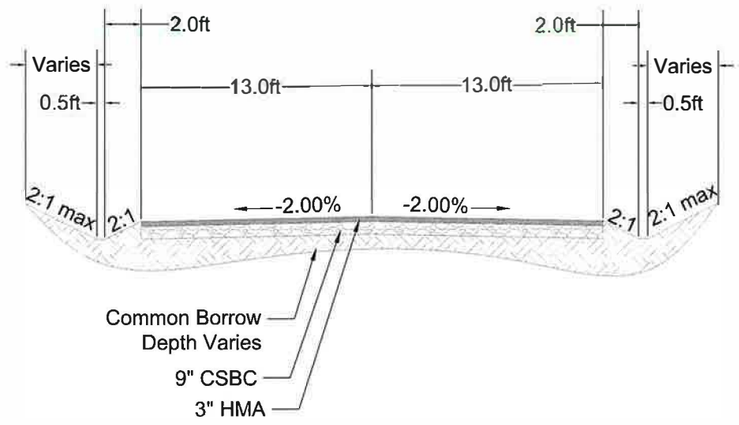

Typical Airport Driveway Section
Sta. 100+00 to 102+83

Airport Rd

Upper County
Search and Rescue

4/12/2024

Designed By:	C. Curtis
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County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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FROM THE CASCADES... TO THE COLUMBIA
KITTITAS COUNTY

Federal Aid No.

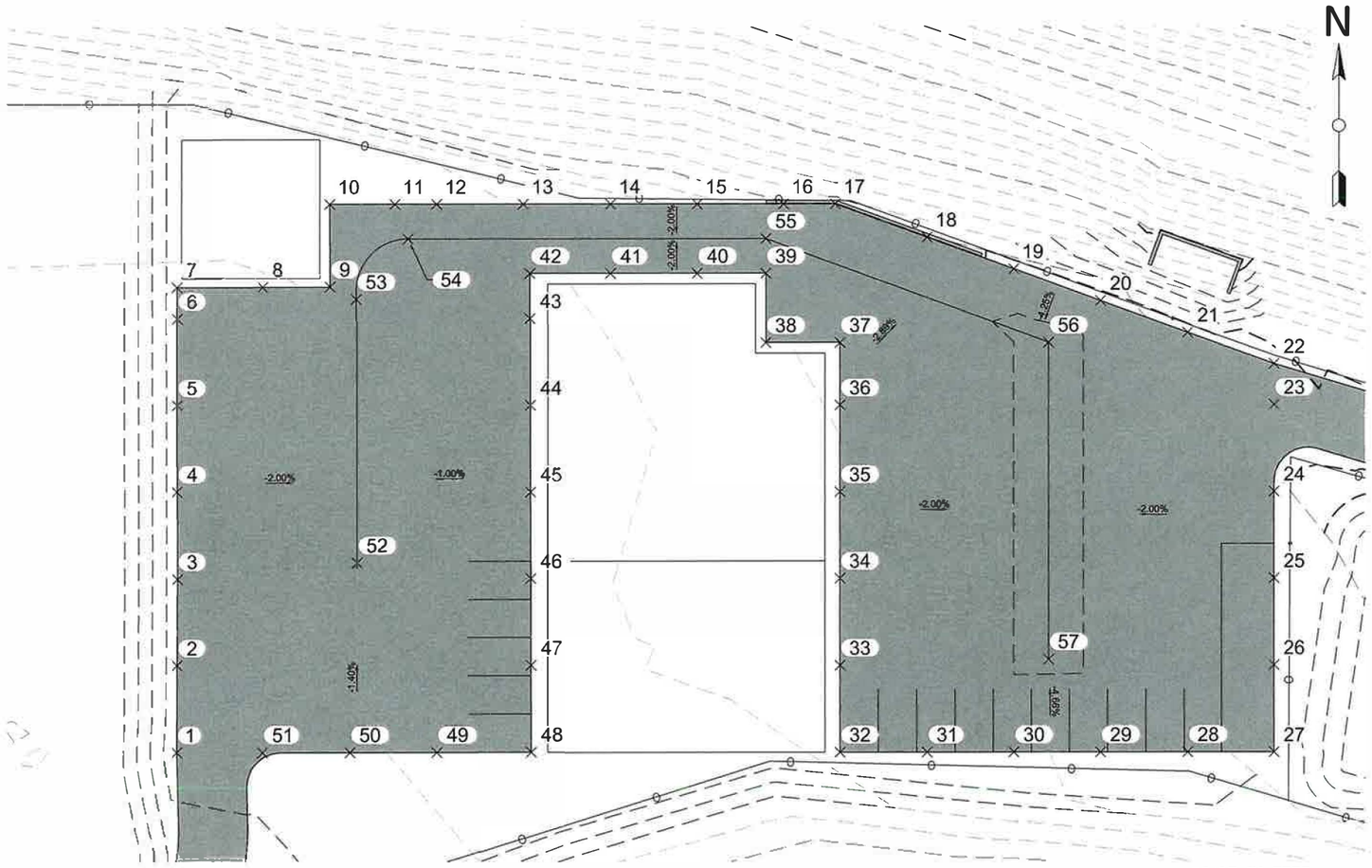
C.R.P. No.

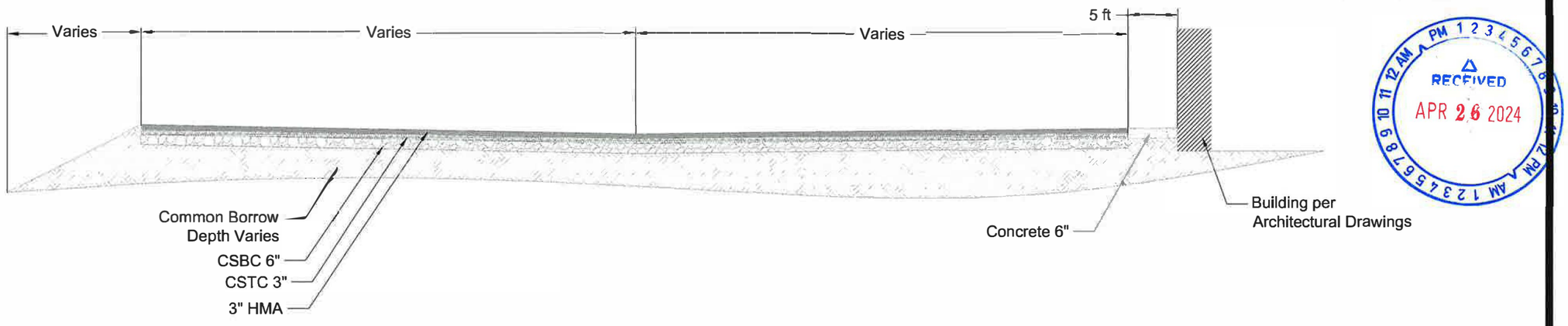
Access Details

AC-02 | 08 / 22

Point Table			
Point #	Elevation	Northing	Easting
1	1879.54	5142.76	6285.31
2	1879.54	5167.76	6285.41
3	1879.54	5192.76	6285.50
4	1879.51	5217.76	6285.41
5	1879.53	5242.76	6285.46
6	1879.53	5267.76	6285.46
7	1879.54	5276.80	6285.31
8	1879.04	5276.88	6310.31
9	1878.65	5276.94	6329.62
10	1878.99	5300.76	6329.55
11	1878.94	5300.76	6348.23
12	1878.96	5300.76	6360.31
13	1879.00	5300.76	6385.31
14	1879.00	5300.76	6410.31
15	1879.00	5300.76	6435.31
16	1879.00	5300.76	6460.31
17	1879.00	5300.76	6475.21
18	1878.58	5291.12	6501.50
19	1878.48	5281.96	6526.50
20	1878.35	5272.79	6551.50
21	1878.60	5263.63	6576.50
22	1879.09	5254.59	6601.14
23	1879.09	5242.76	6601.15
24	1879.13	5217.76	6601.16
25	1879.09	5192.76	6601.15
26	1879.09	5167.76	6601.14
27	1879.09	5142.71	6601.13
28	1879.07	5142.76	6576.50
29	1879.05	5142.76	6551.50
30	1879.04	5142.76	6526.50

Point Table			
Point #	Elevation	Northing	Easting
31	1879.02	5142.76	6501.50
32	1879.00	5142.76	6476.50
33	1879.00	5167.76	6476.49
34	1879.00	5192.76	6476.49
35	1879.00	5217.76	6476.49
36	1879.00	5242.76	6476.48
37	1879.00	5260.76	6476.48
38	1879.00	5260.76	6455.21
39	1879.00	5280.76	6455.21
40	1879.00	5280.76	6435.31
41	1879.00	5280.76	6410.31
42	1879.00	5280.76	6387.17
43	1879.00	5267.76	6387.20
44	1879.00	5242.76	6387.27
45	1879.00	5217.76	6387.35
46	1879.00	5192.76	6387.42
47	1879.00	5167.76	6387.49
48	1879.00	5142.76	6387.57
49	1879.14	5142.76	6360.31
50	1879.27	5142.76	6335.31
51	1879.40	5142.76	6310.31
52	1878.50	5197.35	6337.35
53	1878.50	5273.35	6337.14
54	1878.63	5290.76	6352.13
55	1878.80	5290.76	6455.21
56	1877.80	5260.76	6536.48
57	1877.80	5169.47	6536.49





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Airport Rd

Upper County
Search and Rescue

4/12/2024

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County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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Parking Area

PA-01 | 09 / 22

N

SCALE IN FEET

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Upper County
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P.W. Director:	J. Fredrickson

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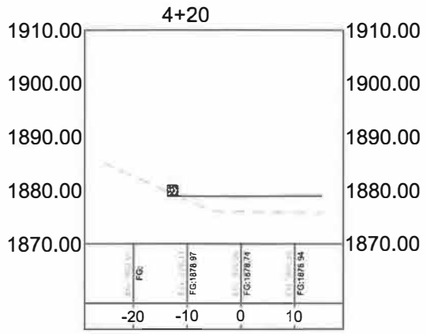
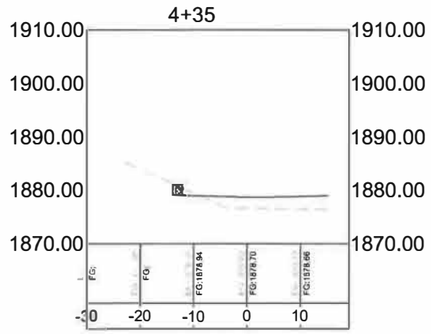
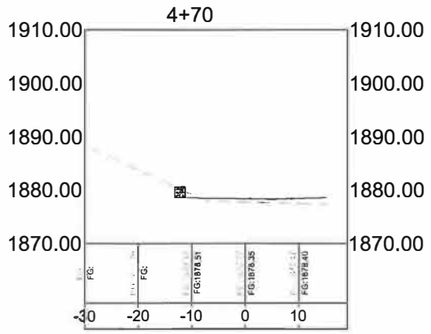
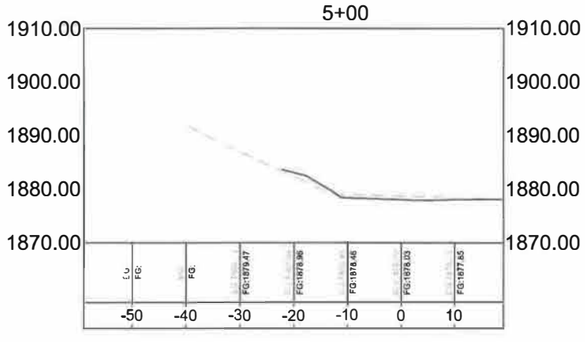
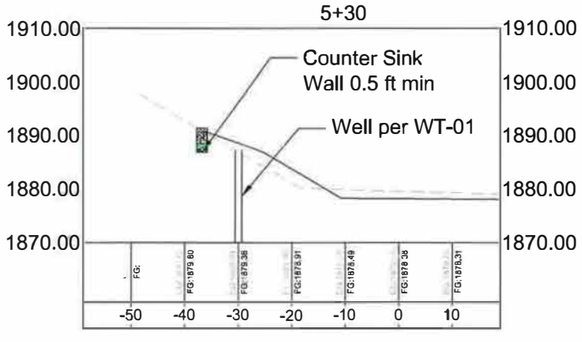
Federal Aid No.	
C.R.P. No.	
Retaining Wall	
WA-01	10 / 22

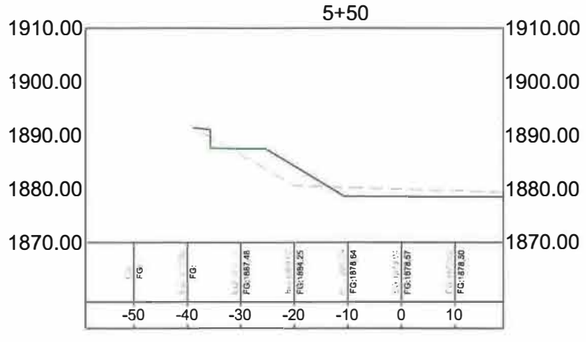












Airport Rd

Upper County
Search and Rescue

4/12/2024

Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

Revision	Date	By

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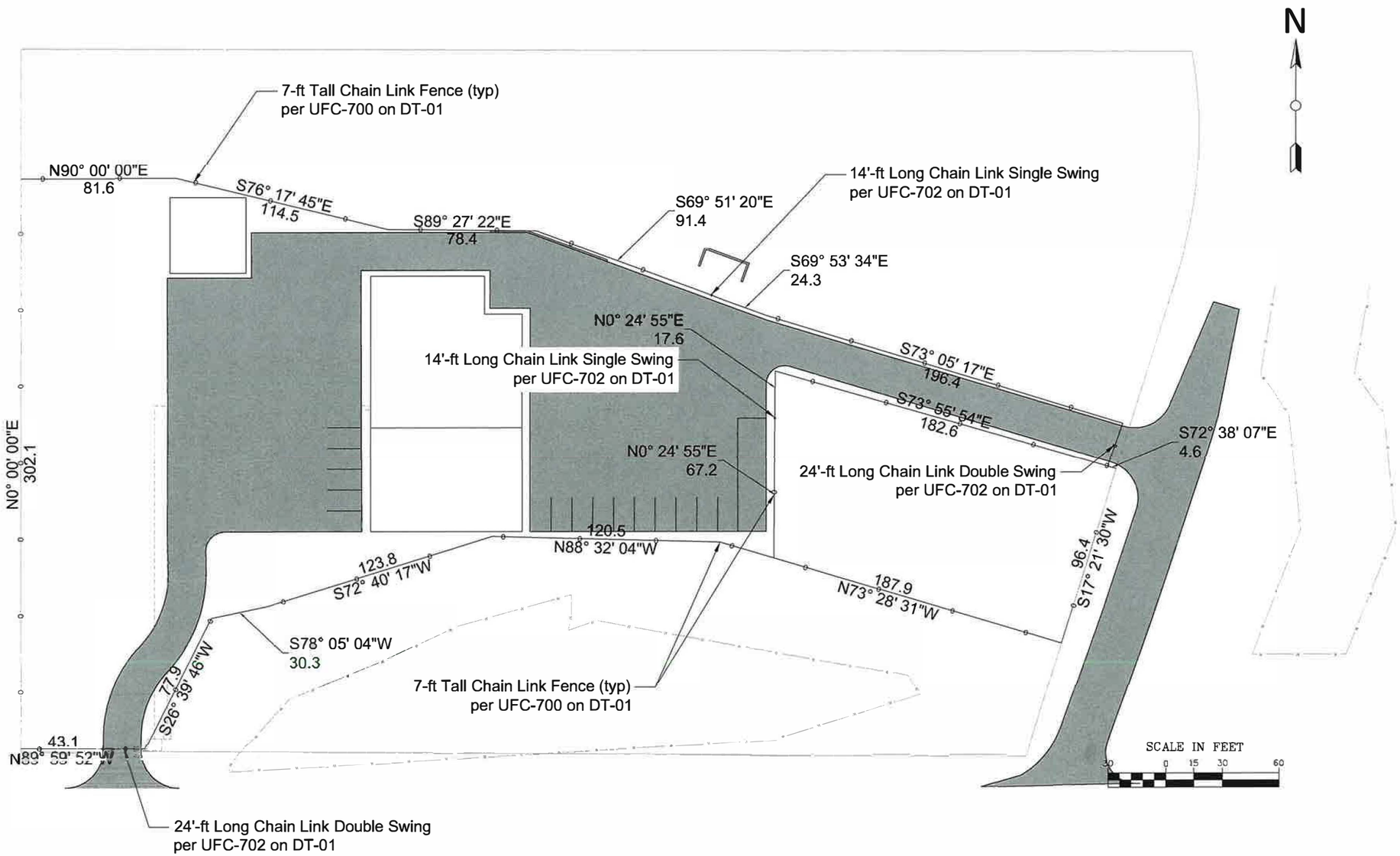
FROM THE CASCADES... TO THE COLUMBIA KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

Retaining Wall

WA-02 | 11 / 22



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APR 26 2024

Airport Road

Upper County
Search and Rescue

4/12/2024	
Designed By:	C. Curtis
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County Engineer:	C. Curtis
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Revision	Date	By

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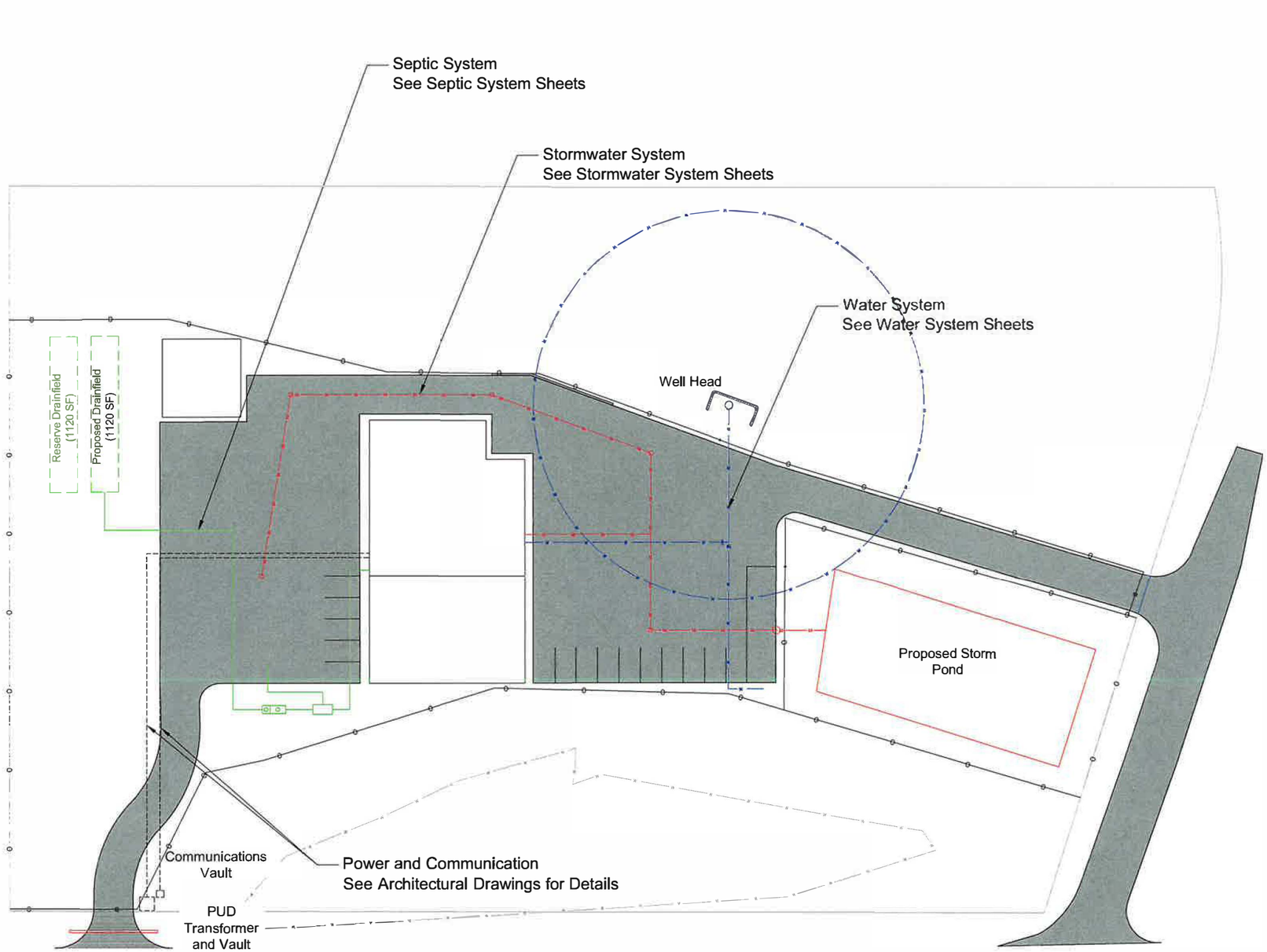
Federal Aid No.	
C.R.P. No.	
Fence Details	
FE-01	12 / 22



SCALE IN FEET

30 0 15 30 60

Airport Rd

Upper County

Search and Rescue

4/12/2024

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County Engineer:	C. Curtis
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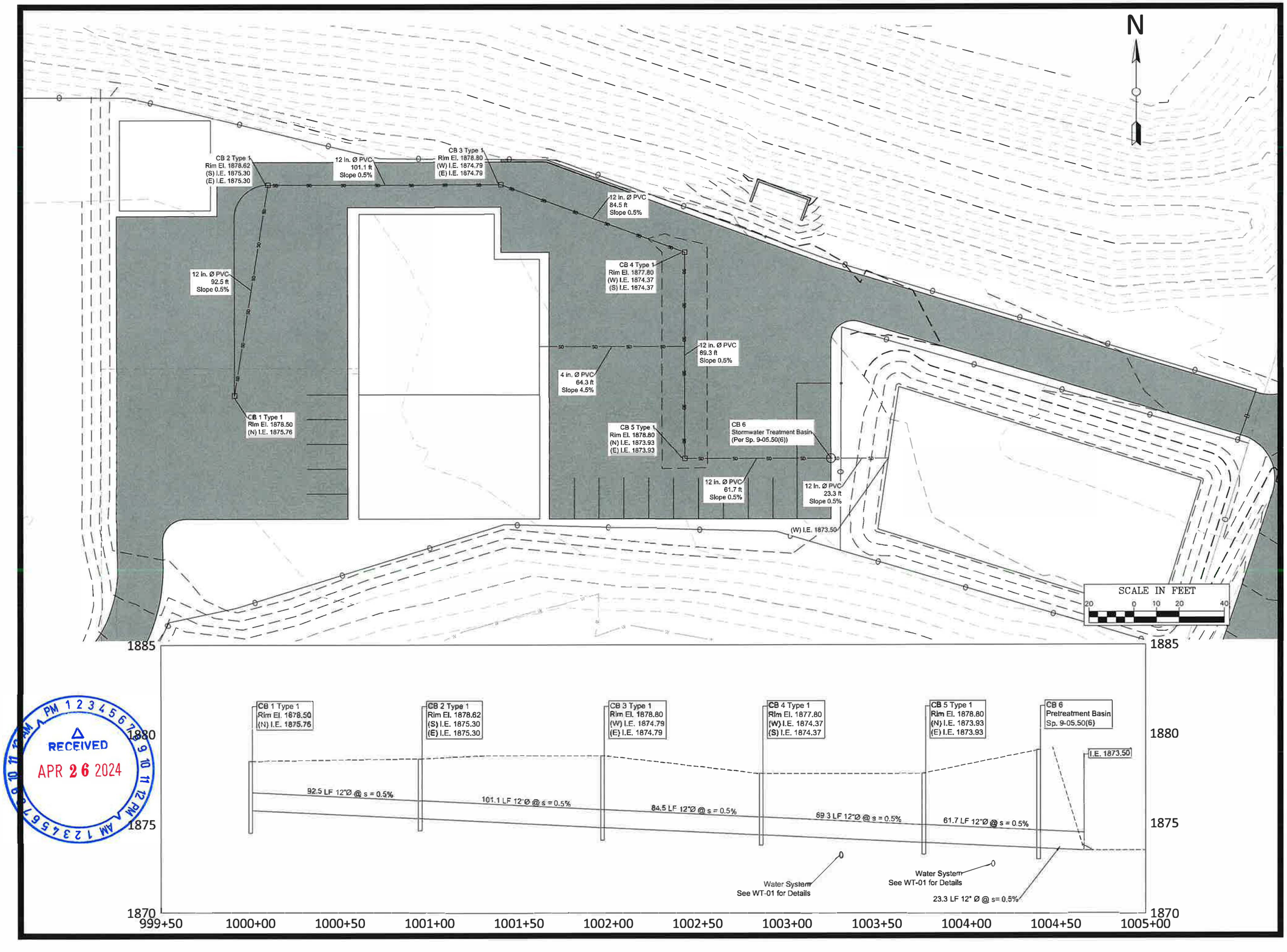
Federal Aid No.

C.R.P. No.

Utilites Site Plan

UT-01 | 13 / 22



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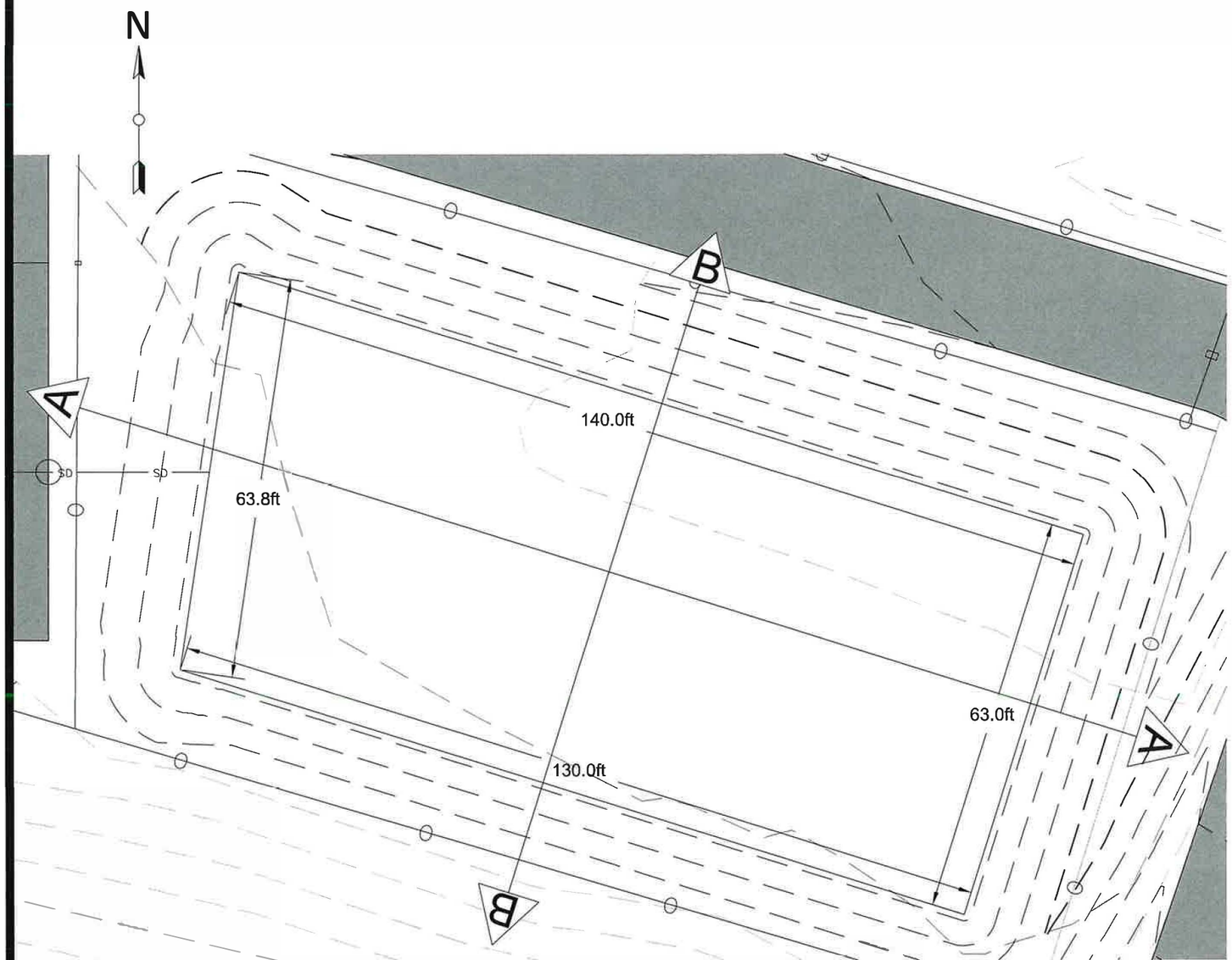
KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

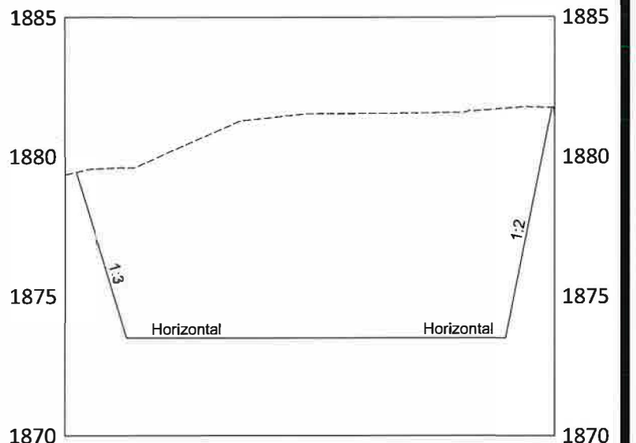
Stormwater System

SW-01 | 14 / 22

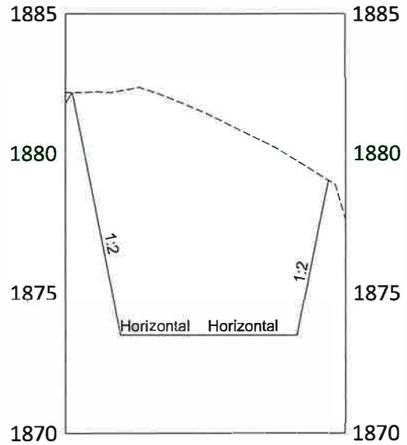


SCALE IN FEET

10 0 05 10 20



Section A-A



Section B-B

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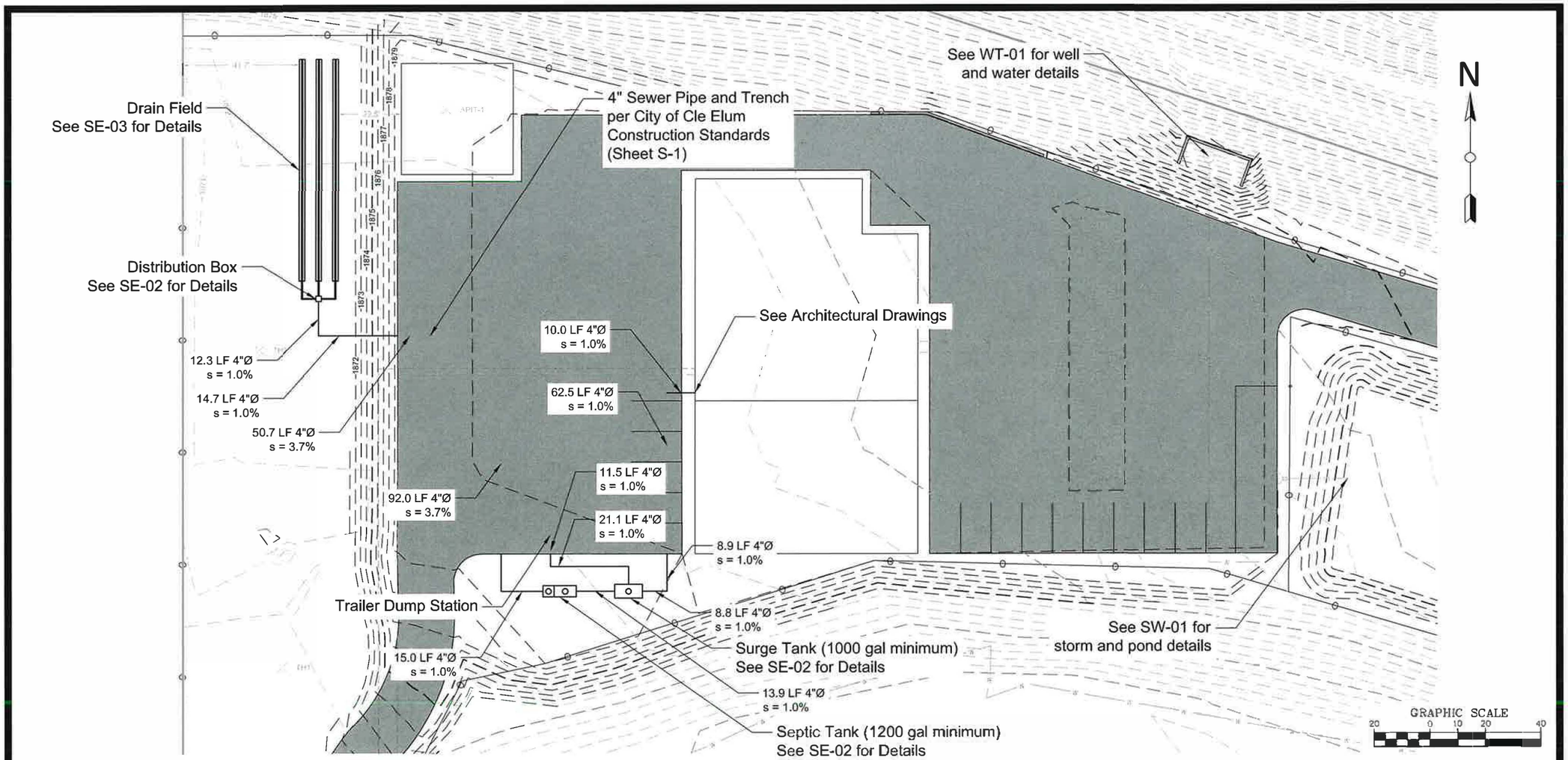
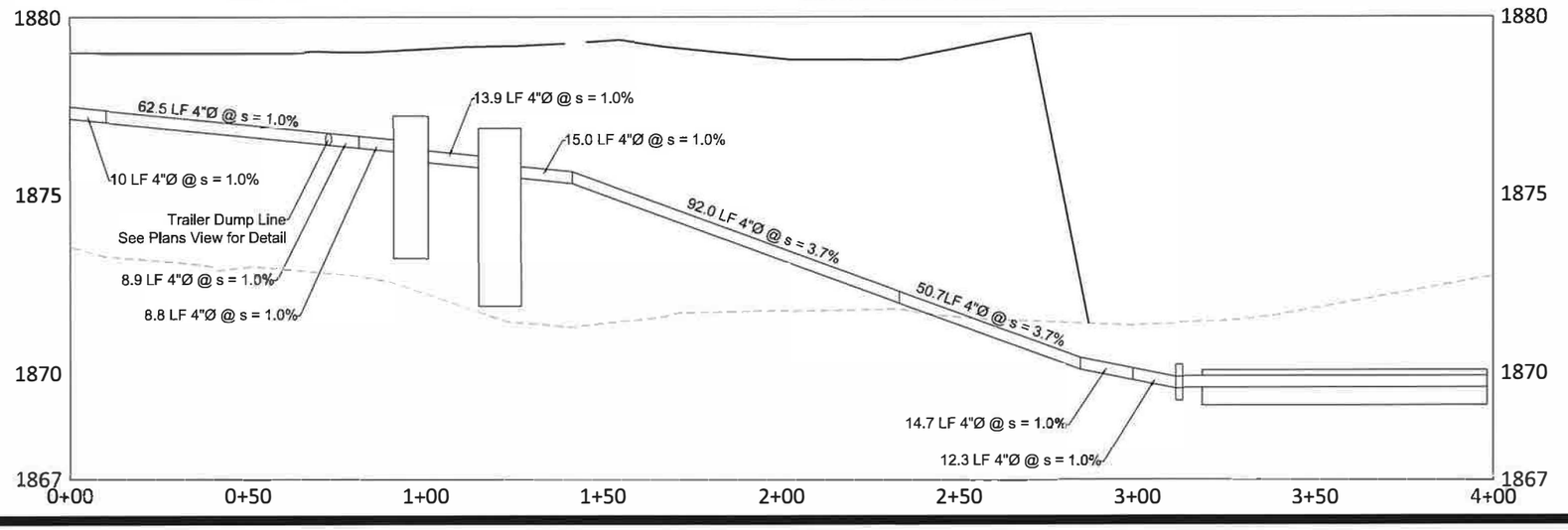
Federal Aid No.	
C.R.P. No.	
Stormwater System	
SW-02	15 / 22





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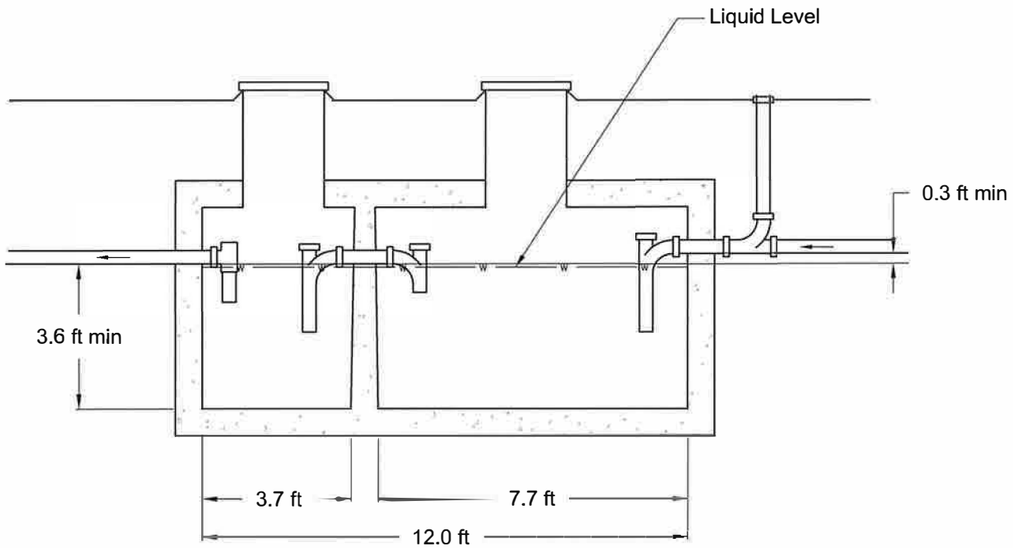
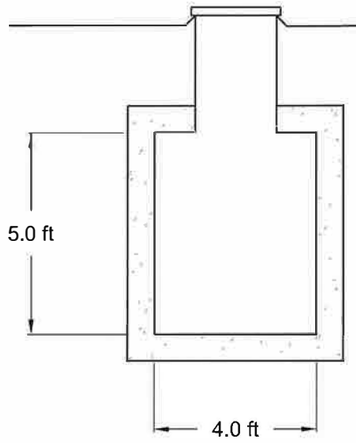
Federal Aid No.

C.R.P. No.

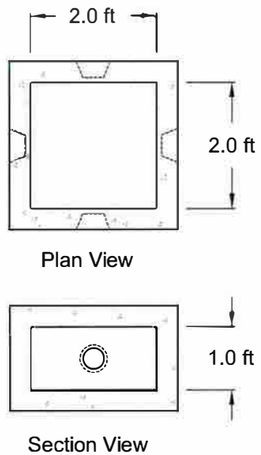
Septic System

SE-01 | 16 / 22

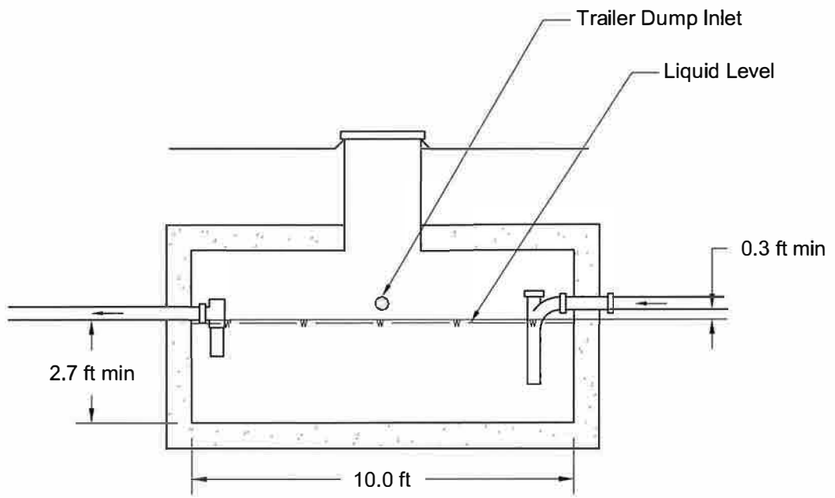


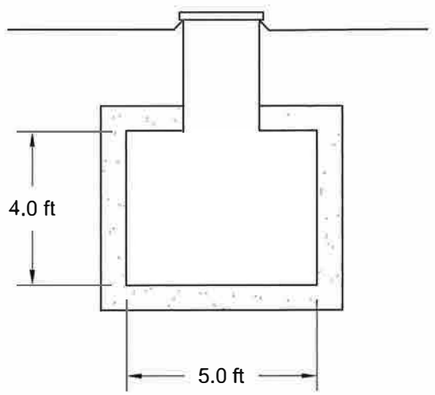


Septic Tank Details



Distribution Box Details





Surge Tank Details

Tanks meeting dimensions shown or approved equivalent from Washington State Department of Health List of Registered Sewage Tanks

Airport Rd

Upper County Search and Rescue

4/12/2024

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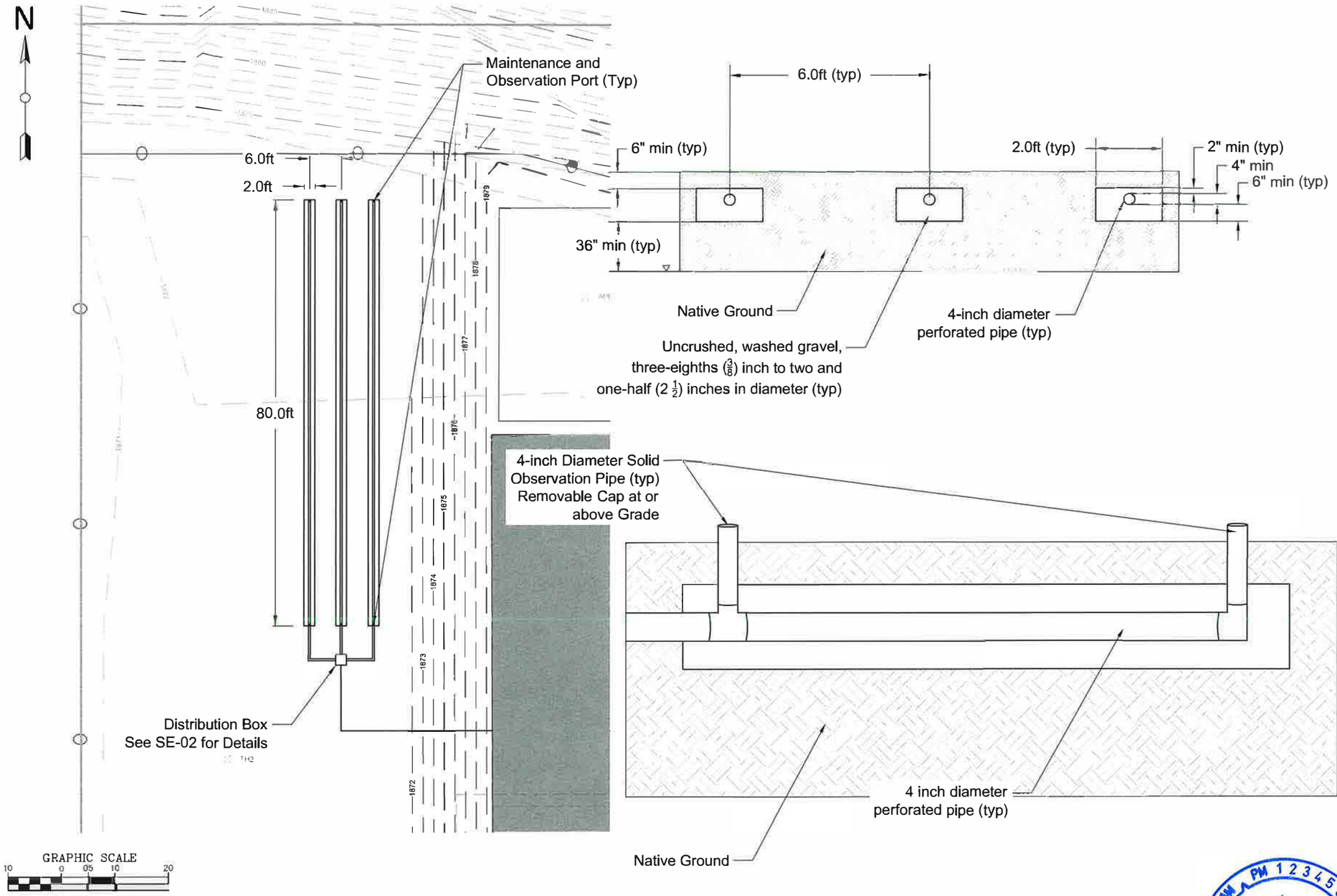
Federal Aid No.	
C.R.P. No.	
Septic System	
SE-02	17 / 22



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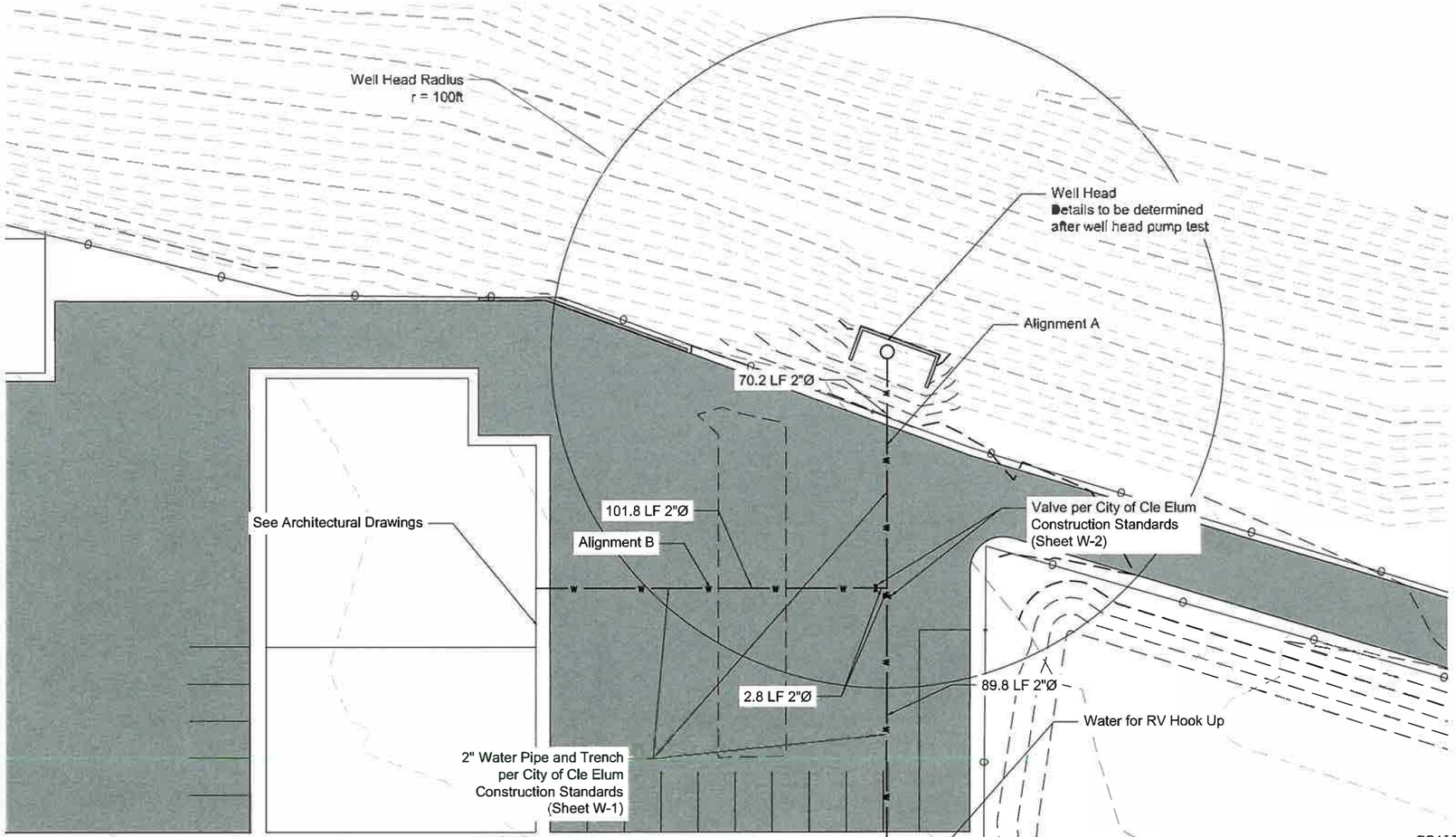
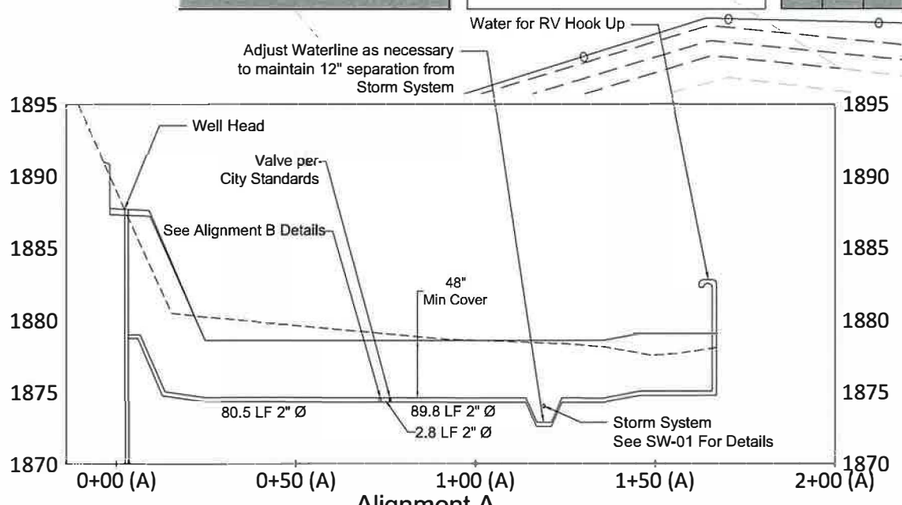
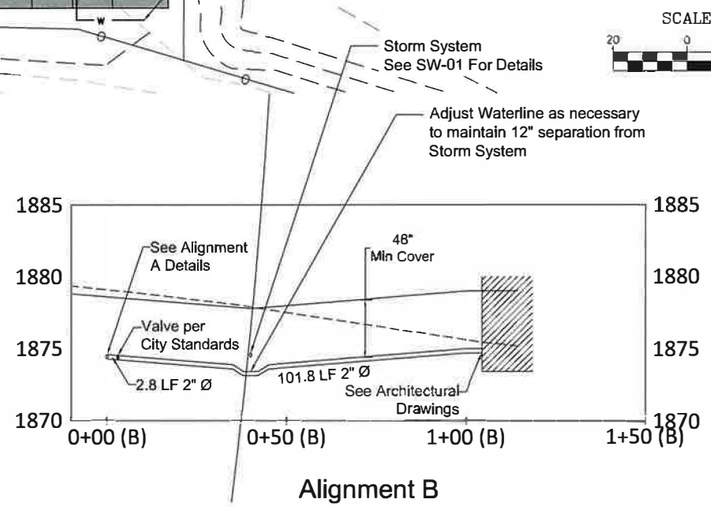
FROM THE CASCADES... TO THE COLUMBIA
KITTITAS COUNTY

Federal Aid No.	
C.R.P. No.	
Septic System	
SE-03	18 / 22







Airport Rd

Upper County

Search and Rescue

4/12/2024

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County Engineer:	C. Curtis
P.W. Director:	J. Fredrickson

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Federal Aid No.	
C.R.P. No.	
Water System	
WT-01	19 / 22

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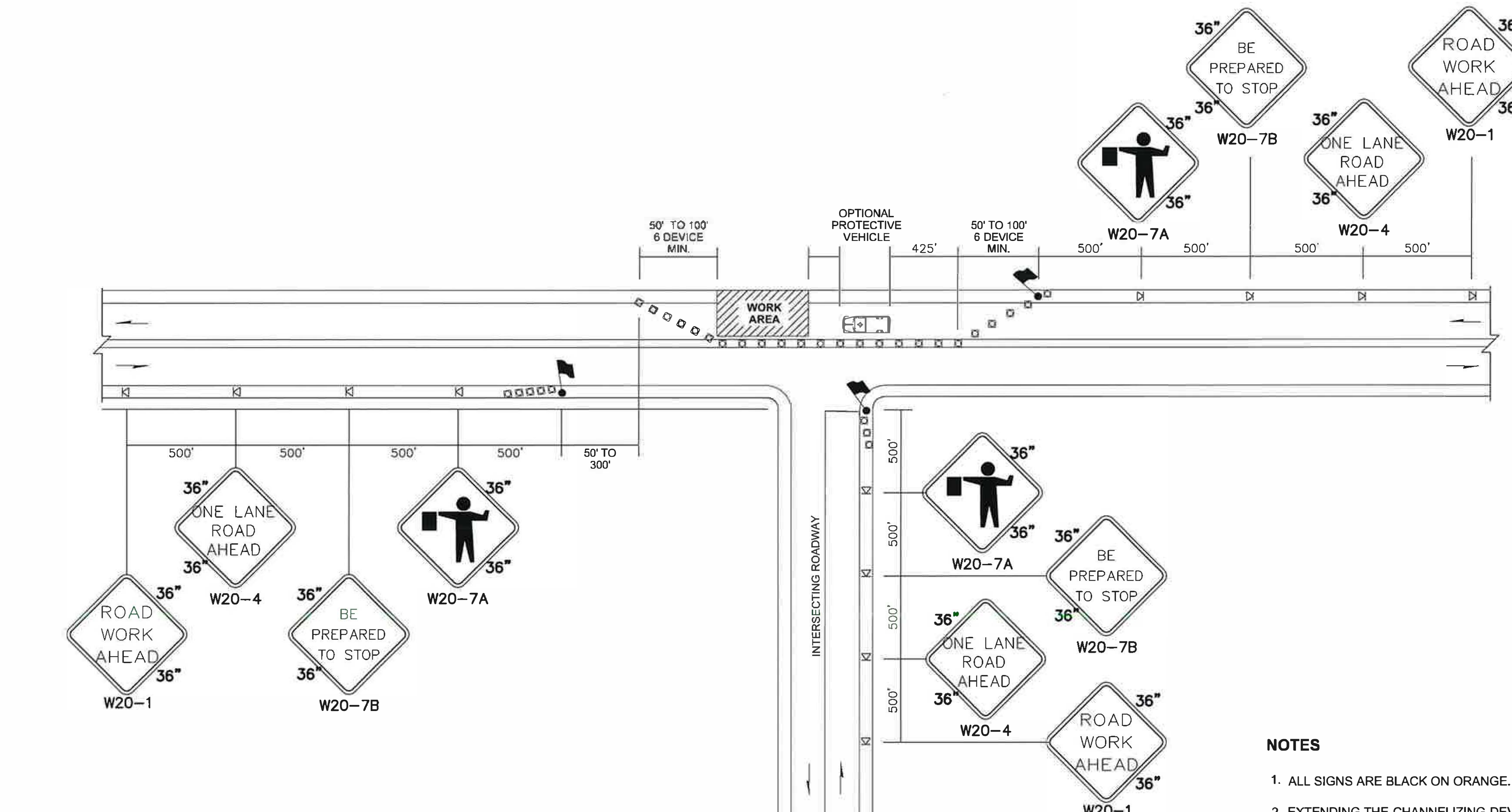

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE (OPTIONAL)

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

NOTES

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE **STANDARD SPECIFICATIONS** FOR ADDITIONAL DETAILS.
4. SEE **SPECIAL PROVISIONS** FOR WORK HOUR RESTRICTIONS.

Airport Rd

Upper County Search and Rescue

4/12/2024

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KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

Temporary Traffic Control

TC-01 20 / 22

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Upper County

Search and Rescue

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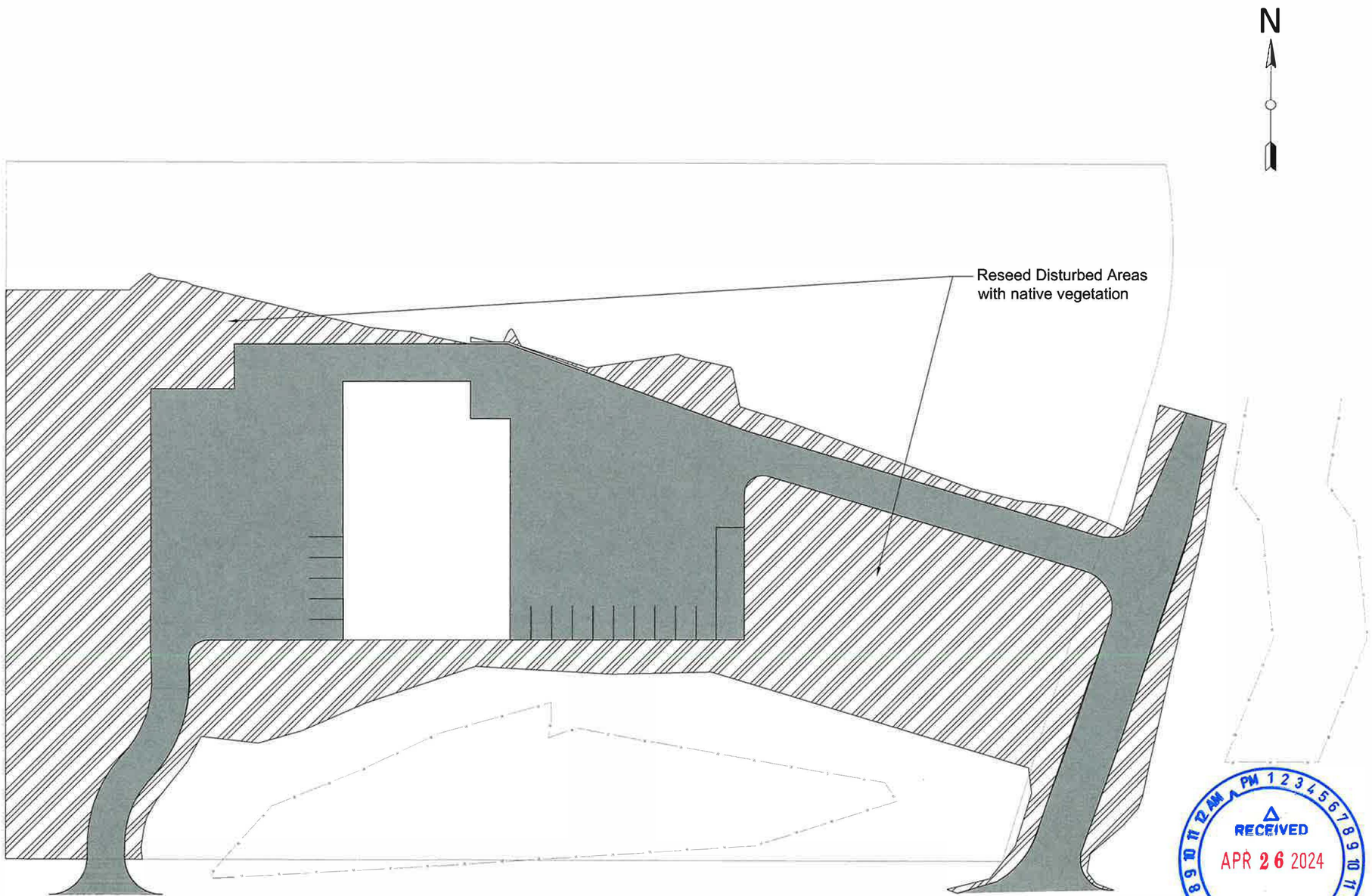
FROM THE CASCADES... TO THE COLUMBIA
KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

City of Cle Elum Details

DT-01



SCALE IN FEET

30 0 15 30 60

Airport Rd

Upper County

Search and Rescue

4/12/2024	
Designed By:	C. Curtis
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County Engineer:	C. Curtis
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FROM THE CASCADES... TO THE COLUMBIA KITTITAS COUNTY

Federal Aid No.

C.R.P. No.

Landscaping Detail

LC-01 | 22 / 22

Wetland boundaries identified by Jacobs are preliminary until the USACE validates the flagged wetland boundaries. Validation of the wetland boundary by the USACE provides a certification, usually written, that the wetland boundaries verified are the boundaries that will be regulated by the USACE until specified data or until the regulations are modified. Only the USACE can provide this certification.

Since wetlands are dynamic communities affected by both natural and human activities, changes in wetland boundaries may be expected; therefore, wetland delineations cannot remain valid for an indefinite period. The USACE typically recognizes the validity of wetland delineations for a period of 5 years after completion.

If you have any questions regarding the findings and recommendations in this report, please contact Jen Bader at (509) 899-5256 or at Jennifer.Bader@jacobs.com.

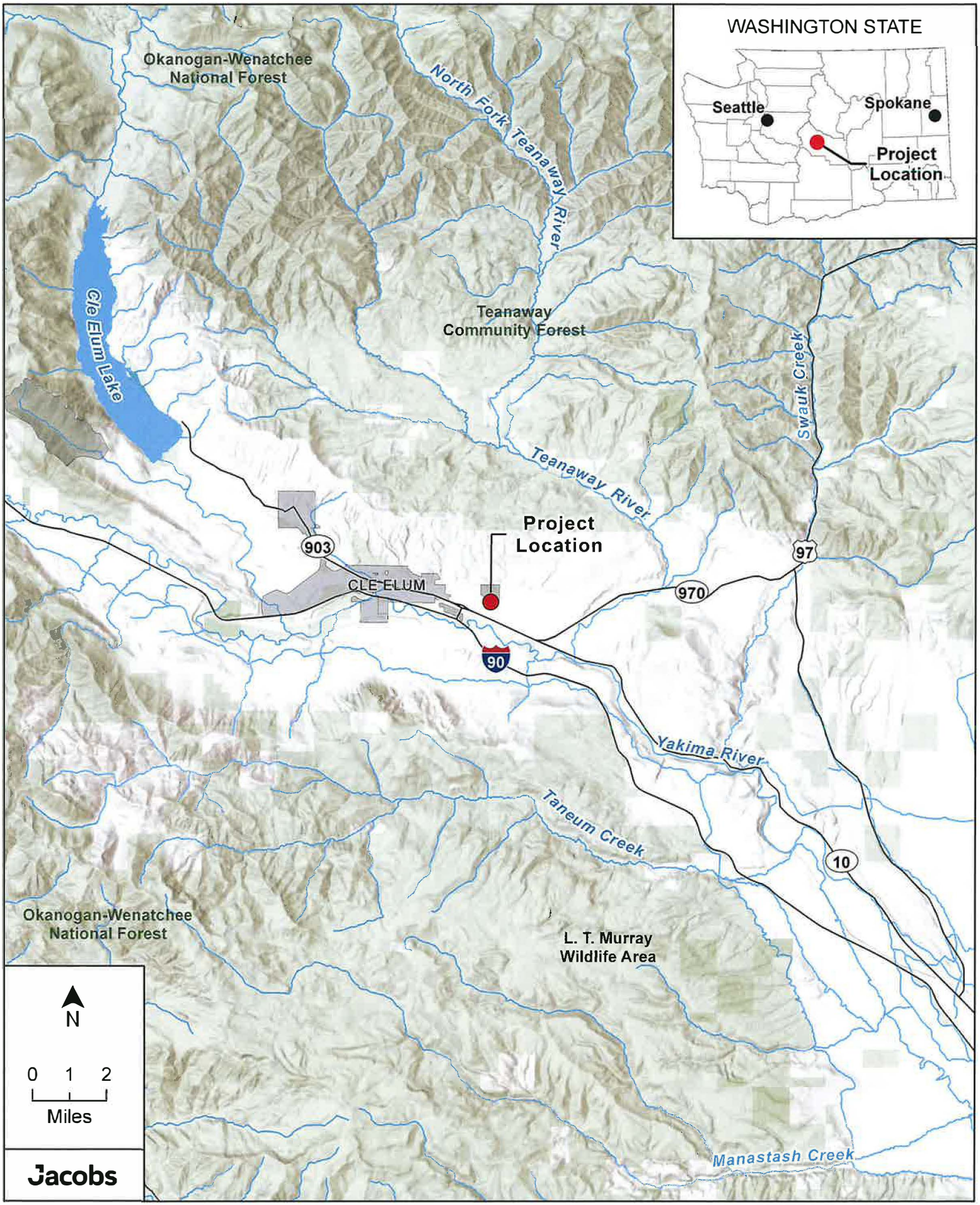
Jacobs

Memorandum

32 North 3rd Street
Yakima, WA 98901, USA
www.jacobs.com

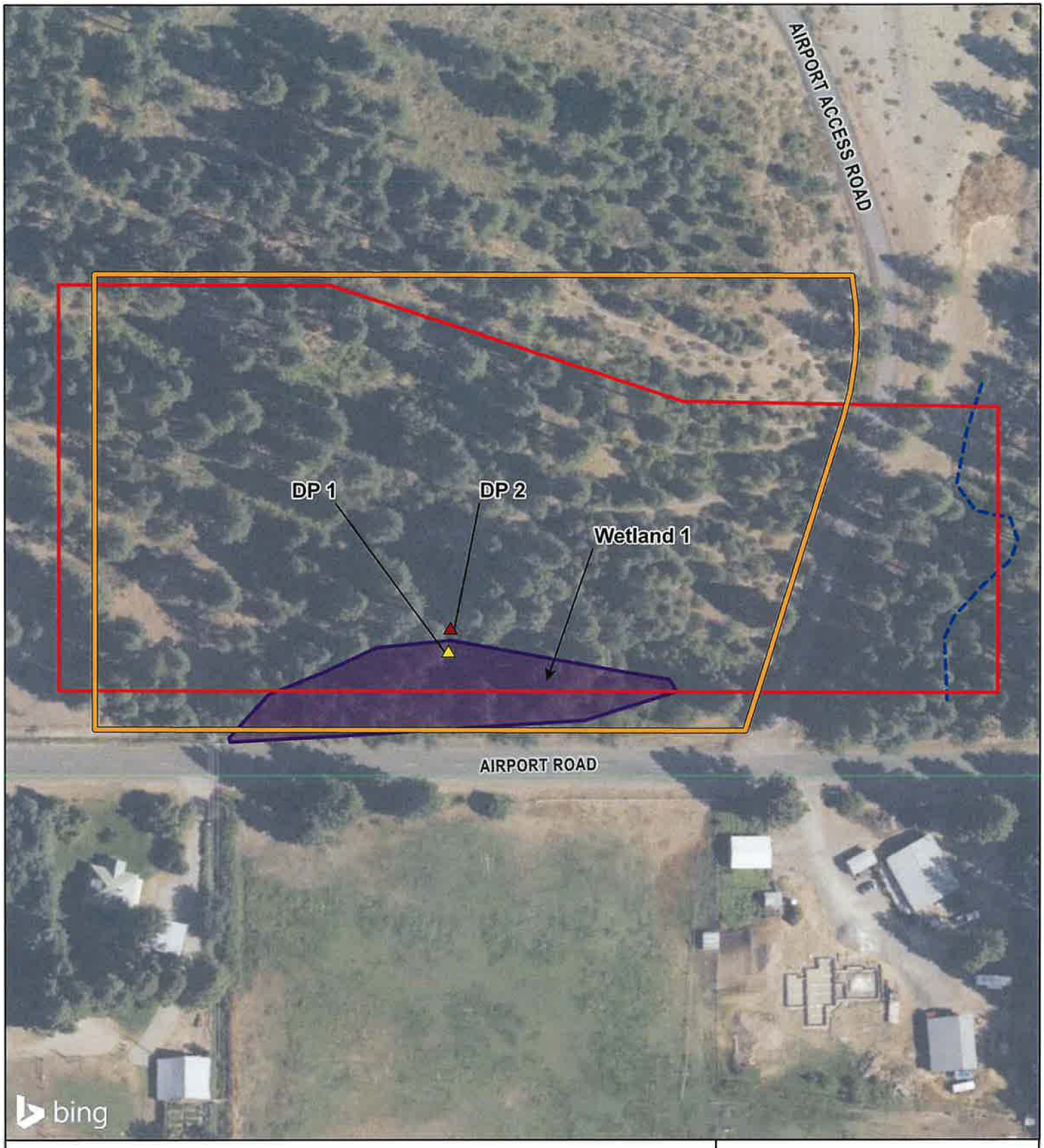
Attachment A. Reference Maps

FIGURE 1. VICINITY



Data Sources: Kittitas County, USFWS, USGS, WSDOT. Basemap Sources: Esri, NASA, NGA, USGS.

FIGURE 2. STUDY AREA



Basemap Source: Bing © 2023 Microsoft Corporation.

Attachment B. Project Area Photographs

Photograph 1: Wetland 1 looking from north to south toward Airport Rd.

Photograph 2: Wetland 1 looking at data plot location.

Photograph 3: Upland area within the study area looking northwest.

Photograph 4: Upland area within the study area.

Photograph 5: Drainage on east side of parcel looking downstream, or the upstream of culvert.

Photograph 6: Drainage on east side of parcel looking upstream, or the downstream of culvert.

Photograph 7: Drainage on east side of parcel looking downstream.

Photograph 8: Drainage on east side of parcel looking upstream.

Attachment C. Corps Wetland Data Forms

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Search and Rescue Site - Wetland 1 City/County: Kittitas County Sampling Date: 6/20/2023

Applicant/Owner: Kittitas County State: WA Sampling Point: DP-1

Investigator(s): Jen Bader, Nicole Ogan Section, Township, Range: Section 30, Township 20 North, Range 16

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 1

Subregion (LRR): A Lat: 47.18969096 Long: -120.88289679 Datum: NAD83HARN

Soil Map Unit Name: Teanaway ashy loam NWI Classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? (●) Yes ( ) No (If no, explain in Remarks.)

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? (●) Yes ( ) No

Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	(●) Yes	( ) No	**Is the Sampled Area within a Wetland?**	(●) Yes	( ) No
Hydric Soil Present?	(●) Yes	( ) No			
Wetland Hydrology Present?	(●) Yes	( ) No			

Remarks:
Depression between Airport road and hillslope.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 20x20)	Absolute % Cover	Dom. Sp.?	Relative % Cover	Indicator Status
1. *Pinus ponderosa*	10	Y	76.9	FACU
2. *Crataegus douglasii*	3	Y	23.1	FAC
3.				
4.				
	13	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15x15)				
1. *Cornus alba*	65	Y	79.3	FACW
2. *Salix lasiandra*	7	N	8.5	FACW
3. *Symphoricarpos albus*	5	N	6.1	FACU
4. *Rosa woodsii*	5	N	6.1	FACU
5.				
	82	= Total Cover		
Herb Stratum (Plot size: 5x5)				
1. *Equisetum arvense*	1	Y	100.0	FAC
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
	1	= Total Cover		
Woody Vine Stratum (Plot size: 15x15)				
1. *None*				
2.				
		= Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	72	x 2 =	144
FAC species	4	x 3 =	12
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	96 (A)		236 (B)

Prevalence Index = B/A = 2.458

Hydrophytic Vegetation Indicators:

- [ ] 1 - Rapid Test for Hydrophytic Vegetation
- [x] 2 - Dominance Test is >50%
- [x] 3 - Prevalence Index is ≤3.0[1]
- [ ] 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] 5 - Wetland Non-Vascular Plants[1]
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? (●) Yes ( ) No

Remarks:
Ground cover was dense leaf litter. One skunk cabbage and some carex (not able to identify since early in growth form with now flowers) were also present in the wetland.

SOIL

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-4										duff layer
4-6	2.5Y	3/2	100							
6-18	5Y	4/1	78	5YR	4/6	25	C	PL&M	silty clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicble to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: None

Depth (inches):

Hydric Soil Present? ◉ Yes ○ No

Remarks:
Soil Damp at surface

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☑ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? ○ Yes ◉ No Depth (inches):

Water Table Present? ○ Yes ◉ No Depth (inches):

Saturation Present? (includes capillary fringe) ◉ Yes ○ No Depth (inches): 12

Wetland Hydrology Present? ◉ Yes ○ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Appears water pools from snowmelt off hillside that is impounded at this location due to road prism on downstream side of depression.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: arch and Rescue Site - Wetland 2 City/County: Kittitas County Sampling Date: 6/20/2023

Applicant/Owner: Kittitas County State: WA Sampling Point: DP-2

Investigator(s): Jen Bader, Nicole Ogan Section, Township, Range: Section 30, Township 20 North, Range 16

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 25

Subregion (LRR): A Lat: 47.18978762 Long: -120.88284448 Datum: NAD83HARN

Soil Map Unit Name: Teanaway ashy loam NWI Classification: upland

Are climatic / hydrologic conditions on the site typical for this time of year? (●) Yes ( ) No (If no, explain in Remarks.)

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? (●) Yes ( ) No

Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	( ) Yes	(●) No	**Is the Sampled Area within a Wetland?**	( ) Yes (●) No
Hydric Soil Present?	( ) Yes	(●) No		
Wetland Hydrology Present?	( ) Yes	(●) No		

Remarks:
South facing hillslope adjacent and north of wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 20x20)	Absolute % Cover	Dom. Sp.?	Relative % Cover	Indicator Status
1. *Pinus ponderosa*	40	Y	100.0	FACU
2.				
3.				
4.				
	40	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15x15)				
1. *Symphoricarpos albus*	10	Y	50.0	FACU
2. *Amelanchier alnifolia*	5	Y	25.0	FACU
3. *Rosa woodsii*	5	Y	25.0	FACU
4.				
5.				
	20	= Total Cover		
Herb Stratum (Plot size: 5x5)				
1. *Tragopogon dubius*	1	Y	100.0	UPL
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
	1	= Total Cover		
Woody Vine Stratum (Plot size: 15x15)				
1. *None*				#N/A
2.				
		= Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	60	x 4 =	240
UPL species	1	x 5 =	5
Column Totals:	61 (A)		245 (B)

Prevalence Index = B/A = 4.016

Hydrophytic Vegetation Indicators:

- [ ] 1 - Rapid Test for Hydrophytic Vegetation
- [ ] 2 - Dominance Test is >50%
- [ ] 3 - Prevalence Index is ≤3.0[1]
- [ ] 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] 5 - Wetland Non-Vascular Plants[1]
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? ( ) Yes (●) No

Remarks:
Ground cover was dense litter. See plant list of site for other species located in the uplands.

SOIL

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2								duff layer
2-18	10YR 2/2	100					silt loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicble to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: None

Depth (inches): _____

Hydric Soil Present? ○ Yes ◉ No

Remarks:
Soil dry and hard to dig through

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? ○ Yes ◉ No Depth (inches): _____

Water Table Present? ○ Yes ◉ No Depth (inches): _____

Saturation Present? (includes capillary fringe) ○ Yes ◉ No Depth (inches): _____

Wetland Hydrology Present? ○ Yes ◉ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No wetland hydrology indicators are present.

Attachment D. Plant List

Table 1. Plant List

Scientific Name[1]	Common Name	Western Mountain, Valleys, and Coast[2]	Distribution in Cover Types	Type[3]	Riparian Vegetation	Wetland	Upland
Trees							
Alnus sp.	Alder	Varies	Sporadic			Sparse	Sparse
Crataegus douglasii	Douglas hawthorne	FAC	Sporadic	N	Sparse	Sparse	Sparse
Pinus ponderosa	Ponderosa pine	FACU	Even	N			Common
Populus balsamifera	Black cottonwood	FAC	Sporadic	N	Sparse	Common	
Pseudotsuga menziesii	Douglas fir	FACU	Sporadic	N			Sparse
Amelanchier alnifolia	Serviceberry	FACU	Sporadic	N			Sparse
Ceanothus velutinus	Mountain balm		Even	N			Common
Cornus sericea	Redosier dogwood	FACW	Clumped	N	Common	Common	
Mahonia sp.	Oregon-grape	FACU	Clumped	N			Sparse
Philadelphus lewisii	Mock orange	FACU	Sporadic	N	Sparse		
Prunus virginiana	Chokecherry	FACU	Clumped	N	Sparse		
Purshia tridentata	Bitterbrush	UPL	Sporadic	N			Common
Rosa woodsii	Wood's rose	FACU	Clumped	N			Common
Salix lasiandra	Pacific willow	FACW	Sporadic	N		Common	
Sambucus nigra sp. cerulea	Blue elderberry	FAC	Sporadic	N	Sparse	Sparse	
Symphoricarpos albus	Common snowberry	FACU	Sporadic	N			Common
Herbs							
Apocynum sp.	Dogbane	Varies	Clumped	N			Sparse
Balsamorhiza sagittata	Arrowleaf balsamroot	UPL	Clumped	N			Sparse
Cirsium arvense	Canadian thistle	FAC	Clumped	I		Sparse	
Collomia grandiflora	Grand collomia	UPL	Sporadic	N			Sparse
Crepis sp.	Hawksbeard	Varies	Sporadic	N			Sparse
Elymus repens	Quackgrass	FAC	Even	I	Common		Common
Equisetum arvense	Field horsetail	FAC	Clumped	N	Common	Sparse	
Fragaria virginiana	Blueleaf strawberry, mountain	FACU	Clumped	N			Sparse
Geranium viscosissimum	Sticky purple geranium	FACU	Clumped	N			Sparse
Lupinus sp.	Lupine	Varies	Sporadic	N			Sparse
Lysichiton americanus	American skunkcabbage	OBL	Single	N		Single	
Madia exigua	Small tarweed	UPL	Clumped	N			Sparse
Poa bulbosa	Bulbous bluegrass	FACU	Even	I			Common
Potentilla sp	Cinquefoil	Varies	Sporadic	N			Sparse
Senecio sp.	Butterweed	Varies	Sporadic	N			Sparse
Vicia sp.	Vetch	Varies	Sporadic	N			Sparse

1 Species identified only to genus were due to limited ability to determine species.

2 Western Mountains, Valleys, and Coast Region Indicator Status described in Table 2.

3 Type: N=Native, I=Introduced, U=Unknown because unable to identify to species and both could occur in this habitat type for Genus.

Table 1. Plant List

Indicator status	Abbreviation	Definition	Percent Occurrence in Wetlands (%)
Obligate	OBL	Occur almost always under natural conditions in wetlands.	99
Facultative Wetland	FACW	Usually occur in wetlands but occasionally found in non-wetlands.	67–99
Facultative	FAC	Equally likely to occur in wetlands and nonwetlands.	34–66
Facultative Upland	FACU	Usually occur in non-wetlands but occasionally found in wetlands.	1–33
Upland	UPL	Occur in wetlands in another region, but occur almost always under natural conditions in non-wetlands in the region specified.	1

Reference

Lichvar, R. W., N. C. Melvin, M. Butterwick, and W. N. Kirchner (Lichvar et al.). 2012. *National Wetland Plant List Indicator Rating Definitions*. Prepared for USACE Wetland Regulatory Assistance Program, Publication #ERDC/CRREL TN-12-1. July.

Attachment E. Streamflow Duration Data Form

Appendix B: Streamflow Duration Field Assessment Form

Project # / Name		Assessor
Address		Date
Waterway Name	Coordinates at downstream end (ddd.mm.ss)	Lat. N
Reach Boundaries		Long. W
Precipitation w/in 48 hours (cm)	Channel Width (m)	☐ Disturbed Site / Difficult Situation (Describe in "Notes")

Observed Hydrology

% of reach w/observed surface flow_____

% of reach w/any flow (surface or hyporheic) _____

# of pools observed_____

Observations

Observed Wetland Plants (and indicator status):

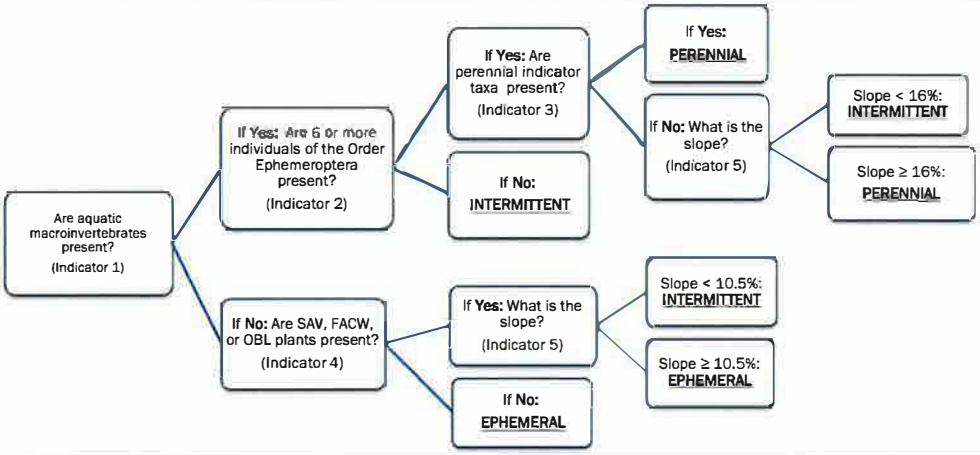
Observed Macroinvertebrates:

Taxon	Indicator Status	Ephemer-optera?	# of Individuals

Indicators

1. Are aquatic macroinvertebrates present?	☐ Yes	☐ No
2. Are 6 or more individuals of the Order Ephemeroptera present?	☐ Yes	☐ No
3. Are perennial indicator taxa present? (refer to Table 1)	☐ Yes	☐ No
4. Are FACW, OBL, or SAV plants present? (Within ½ channel width)	☐ Yes	☐ No
5. What is the slope? (In percent, measured for the valley, not the stream)	_____ %	

Conclusions



Single Indicators:
☐ Fish
☐ Amphibians

Finding:
☐ Ephemeral
☐ Intermittent
☐ Perennial

Notes: (explanation of any single indicator conclusions, description of disturbances or modifications that may interfere with indicators, etc.)

Difficult Situation:

Describe situation. For disturbed streams, note extent, type, and history of disturbance.

- ☐ Prolonged Abnormal Rainfall / Snowpack
  - ☐ Below Average
  - ☐ Above Average
- ☐ Natural or Anthropogenic Disturbance
- ☐ Other: _____

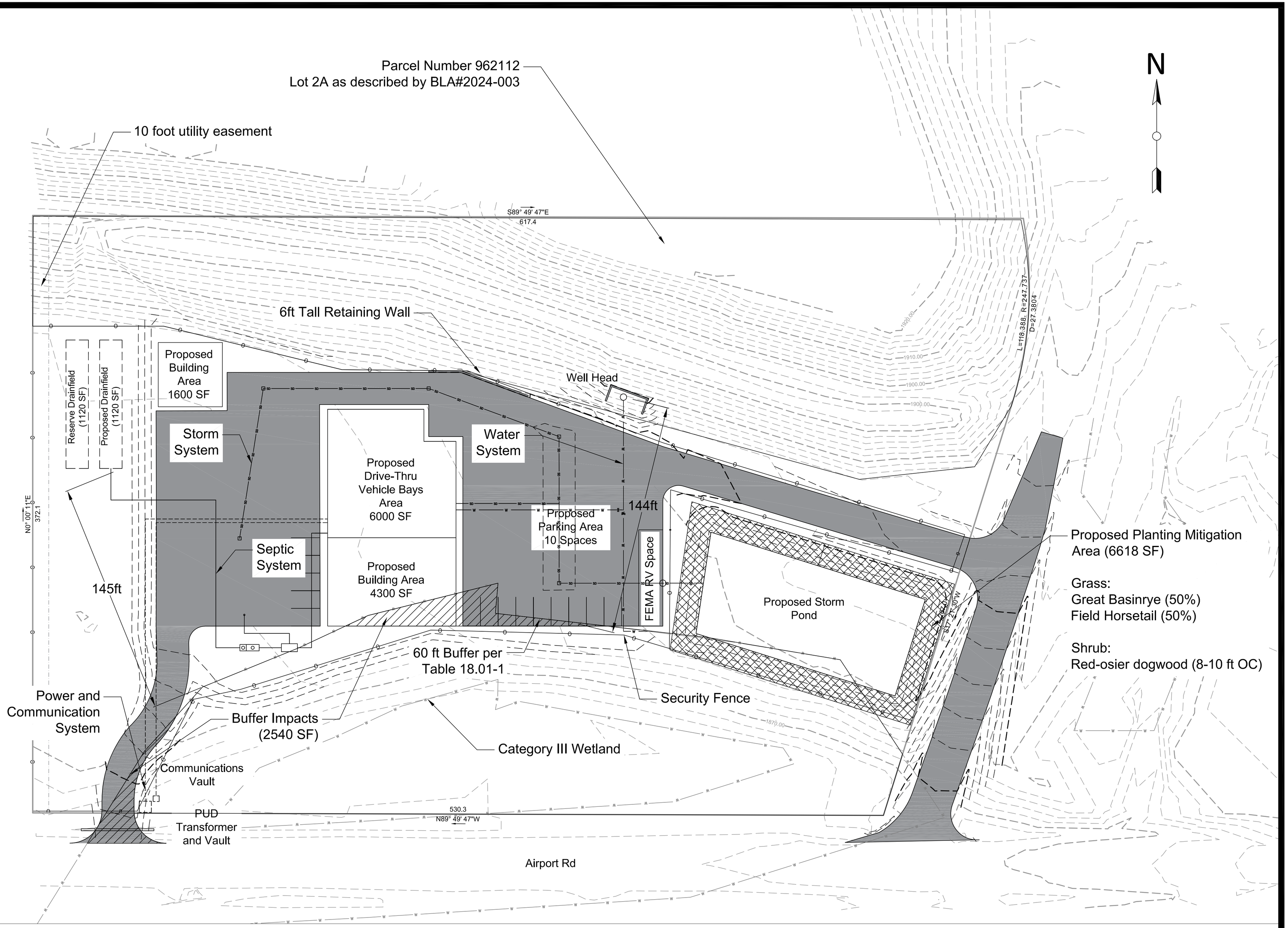
Additional Notes: (sketch of site, description of photos, comments on hydrological observations, etc.) Attach additional sheets as necessary.

Ancillary Information:

- ☐ Riparian Corridor
- ☐ Erosion and Deposition
- ☐ Floodplain Connectivity

Observed Amphibians, Snake, and Fish:

Taxa	Life History Stage	Location Observed	Number of Individuals Observed



Airport Rd - Cle Elum

Upper County

Search and Rescue

3/12/2024	
Designed By:	C. Curtis
Entered By:	C. Curtis
County Engineer:	J. Fredrickson
P.W. Director:	M. Cook

Revision	Date	By

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C.R.P. No.	
Site Plan	
SP-01	/