



MEETING INFORMATION

TRAILS ADVISORY COMMITTEE MEETING

****ATTENTION****

Due to technical difficulties with the Granicus live stream system we were unable to get a full video of the Trails Advisory Committee Meeting (TAC) on Wednesday, April 7, 2021 at 1:30 p.m.

Please contact the Clallam County Public Records Department if you wish to obtain a complete copy of the Soniclear audio only recording at:

[https://clallamcountywa.mycusthelp.com/WEBAPP/rs/\(S\(3udupb05bpgakqm3cadr2ncq\)\)/support/home.aspx](https://clallamcountywa.mycusthelp.com/WEBAPP/rs/(S(3udupb05bpgakqm3cadr2ncq))/support/home.aspx)

Questions can be directed to Steve Gray – Road Department / Clerk for TAC - at 360-417-2290 or sgray@co.clallam.wa.us

AGENDA
CLALLAM COUNTY TRAILS ADVISORY COMMITTEE
Clallam County Courthouse, Room 160
223 East 4th St Port Angeles, WA
April 7, 2021 - 1:30 p.m.

****ATTENTION****

In response to the current Governors order Clallam County has moved Phase 3 of the Healthy Washington Roadmap to Recovery Plan. To be in compliance with the Healthy Washington Roadmap to Recovery Plan the following general requirements for COVID safety for meetings held in the Board of County Commissioners (BOCC) Board Room are as follows:

1. All attendees are encouraged to provide contact information on a sign in sheet which will be retained for 28 days for contact tracing purposes.
2. Public seating areas and Committee member seating will be arranged to ensure physical distancing is maintained.
3. Meeting attendees must wear a proper face covering and maintain six feet of physical distance between other persons.
4. No food or drink should be consumed in the BOCC Board Room.
5. Meeting organizers shall clean or arrange to have cleaned high-touch surfaces before and after each meeting.
6. Hand sanitizing stations will be available in the BOCC Board Room.
7. Keep doors and windows open where possible to improve ventilation.

This meeting can be viewed on a live stream at this link: <http://www.clallam.net/features/meetings.html>

If you would like to participate in the meeting via BlueJeans audio only, call 408-419-1715 and join with Meeting ID: 759 743 837

If you would like to participate in the meeting via BlueJeans video conference, visit www.bluejeans.com and join with Meeting ID: 759 743 837

Public comment and questions can be directed to County Public Works-Roads at 360-417-2290 or sgray@co.clallam.wa.us

A. WELCOME/CALL TO ORDER/ROLL CALL

B. REQUEST OF MODIFICATIONS/ADDITIONS TO AGENDA

C. APPROVAL OF MEETING MINUTES: March 3, 2021

D. ANNOUNCEMENTS AND REPORTS

E. DISCUSSION ITEMS

1. Temporary closure of short segment of the Olympic Adventure Trail (OAT) immediately west of the Joyce-Access Road crossing with a detour around closure area.
2. Peninsula Trails Coalition (PTC) Guidelines for Olympic Discovery Trail (ODT) Signs and Structures.
 - a. PTC Standard Guideline and Design for ODT Information Kiosks.
 - b. Recent Kiosk Installation Photo Example at Strait View Drive Trail Access.
 - c. Proposed Information Kiosk Design near east-side of Kitchen-Dick Road Crossing.
3. PTC Bollard Inventory and Bollard Maintenance

F. TRAIL PROJECT REPORTS & UPDATES

1. Olympic Adventure Trail (OAT) Motorized Vehicle Barrier Removal Project Completed
2. ODT-Forks Calawah River Park to Sitkum-Sol Duc (aka "A" Road)
3. ODT-Forks to La Push (along SR 110/La Push Rd Corridor)
4. Other Project Reports/Updates

G. OLYMPIC DISCOVERY TRAIL (ODT) MAINTENANCE REPORTS

1. County Volunteer Trail Crew Reports
2. County Maintenance Reports
3. Peninsula Trails Coalition and Other Reports

H. PUBLIC COMMENT

I. ADJOURNMENT

Members: Andy Stevenson, Jennifer Reandeau, Justin Zarzeczny (Dept. of Natural Resources), Gary Gleason, Dick Gritman, Kat Sample, Chuck Preble, Charlie Commeree, Jason Anderson, Gordon Taylor, Eric Rohrer, Bill Biery, and Richard Bloomer.
Ex-officio Members: Lisa Turecek (Olympic National Park), Steve Gray (Clallam County Public Works/Road Department), and Bill Peach (Clallam County Commissioner)

Clallam County Trails Advisory Committee (TAC) March 3, 2021 Meeting Minutes

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WELCOME/INTRODUCTIONS

The meeting was called to order. The meeting was conducted both in-person and via video/phone conferencing.

Members Present: Andy Stevenson, Jennifer Reandeau, Justin Zarzecny, Gary Gleason, Kat Sample, Gordon Taylor, Bill Biery, and Richard Bloomer.

County Representatives: Steve Gray, County Public Works/Road Department
Bill Peach, County Commissioner

The agenda was approved without modification.

APPROVAL OF MINUTES:

Mr. Taylor motioned to approve the February 3, 2021 meeting minutes, which was seconded by Mr. Gleason. The motion passed with all in support.

ANNOUNCEMENTS:

Mr. Bloomer noted that Pedego bike store in Sequim recently sold two ebikes either to the City of Sequim or Clallam County for use on the Olympic Discovery Trail (ODT). He was going to follow-up to confirm which agency and the planned purpose. Mr. Gray indicated it was not the County Road Department, and noted that last year the Sheriff Department purchased ebikes to support a volunteer trail patrol.

NEW BUSINESS/DISCUSSION ITEMS:

Peninsula Trail Coalition Projected Length of Olympic Discovery Trail (ODT)

Chair Stevenson reported that the Peninsula Trails Coalition (PTC) has identified the ODT aspirational length when completed to be 135-miles based on current mileage of completed sections and estimated route length in current trail gaps. He noted that PTC wanted to have an agreed upon single number that represents what the trail length will be when completed. The 135-mile estimate does not include the Olympic Adventure Trail (OAT) section.

Bollard Height and Other Considerations

Mr. Gray noted that during prior TAC discussion the issue of bollard height related to the risk for handlebar strikes was raised. He noted that the PTC bollard inventory shows the most common bollard heights on the ODT are 30-inches and 42-inches in height, and that the recent bollard installations by the County were 42-inches in height.

Mr. Gray compared current AASHTO and Washington State Department of Transportation (WSDOT) bollard height and diameter guidelines. AASHTO recommends minimum bollard height of 40 inches and a minimum diameter of 4 inches for visibility, whereas WSDOT guidelines and standard plans for Type 1 Bollard (removable) and Type 2 Bollard (non-removable) show a 30-inch in height and 4-inch diameter post. Mr. Gray referenced pictures of several recent bollard installations on the ODT showing varying heights and

diameters, and that the different WSDOT guideline may be one reason for the use of 30-inch tall bollards on the ODT by the various jurisdictions.

Mr. Gray noted that he contacted Brian Wood, WSDOT Pedestrian and Bicycle Coordinator, on why the state bollard height standard was different. Mr. Wood indicated that WSDOT's 2008 standard bollard plans are under review and WSDOT will likely update to the AASHTO bollard standard, and he recommended using the AASHTO minimum 40-inch height standard.

Mr. Gray referenced the presentation by Brian Wood, WSDOT, titled "Trail Access Control Considerations" in the meeting packet that summarizes AASHTO and WSDOT guidelines and recommendations. Chair Stevenson indicated that the WSDOT presentation in the packet accurately reflects their position on use of bollards. He also noted that WSDOT standards apply to trails on WSDOT property. He added that he believes bollard use on the ODT can be reduced based on WSDOT/AASHTO guidance citing the example of bollards on the west side of the ODT-Carlsborg Road crossing before the pump station. He believes bollard use at this location can be eliminated or reduced because it does not look like a road intersection.

Mr. Bloomer asked if removal of bollards is next-step. Mr. Gray responded that the County is in the process of removing the motorized barriers on the Olympic Adventure Trail, and that any bollard removal on the main paved ODT will be evaluated on a case-by-case basis.

Mr. Bloomer asked Gordon Taylor if PTC was drafting a letter to trail jurisdictions related to bollards. Mr. Taylor responded that the PTC bollard inventory is completed and has been shared with trail jurisdictions, and he is now working on updates to PTC structural recommendations to follow AASHTO guidelines. Mr. Taylor added he did initiate a discussion with City of Port Angeles on needs for bollards with the city limits, and PTC is in the discussion phase as to any letter to send to jurisdictions regarding bollards.

Trail Etiquette/Courtesy Messaging

Mr. Gray noted the issue of trail user etiquette/courtesy messaging was raised at the last meeting. To continue that discussion, he referenced and summarized examples of current messaging to trail users in the meeting packet materials that included: trailhead brochures, trail user yield signs (i.e., directs bicyclist to yield to pedestrians and horses), ODT web page information, kiosks, and trail rule signage. He also mentioned the potential incorporation of trail etiquette rules as part of any future ODT use regulation updates citing examples from other jurisdictions.

Discussion was opened to generate ideas to improve and expand use trail etiquette/courtesy messaging and how to implement (e.g., who lead, funding needs) such ideas. Mr. Biery recommended expanding the use of the yellow trail user courtesy yield signs along the trail corridor and inquired whether signs are available to post. Mr. Gray responded that the County does not have any signs in stock and that the bright colored ones were recently paid for and installed by PTC. Mr. Taylor followed by saying PTC did not have any in stock at the moment and would need to look at available funding since they are not inexpensive.

Lorrie Mittman provided public comment that ebikes are flying off shelf and her observation is that many purchasers have not biked in a long time. She recommended that local bike shops provide orientation to trail etiquette when selling bikes, but not sure if it is the role of Committee to ask. Mr. Biery responded he would be happy to approach PEDEGO and Bens Bike in Sequim to provide written materials they can hand out. Ms. Mittman also suggested expanding making such materials available to Sound Bikes & Kayaks in Port Angeles.

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Chair Stevenson suggested that we can all help with messaging. He noted that such messaging should target that the ODT is not a “bike path” but a “shared use path” for many user types. We need to model and promote the range of users including handicap users as one of the biggest messages. Mr. Bloomer agreed and noted that he regularly rides with a number of bike groups and that before every ride we remind everyone of courtesy rules. We had a few riders that liked to go fast that ultimately got the message and went back to road riding. He recommended a 3 x 5 inch flier to promote the shared use path message at local bike shops.

Mr. Gleason inquired about signage that indicates this is a multi-use trail. Chair Stevenson noted that the trail user yield courtesy signs help with that messaging. Mr. Taylor noted PTC has been putting out two types of trail user yield courtesy signs depending on location: 1) white background with color where trail traffic is high and signage more dense; and 2) brown background in more remote areas (e.g., west of Fairholm). Several members commented that they liked that approach. Mr. Gray pointed to the photo of the brown sign type in the meeting packet materials used on the Spruce Railroad Trail. He also noted support for messaging the ODT as a shared use trail and suggested groups like PTC, OPMA and trail event organizers could assist with such messaging on their web pages.

TRAIL PROJECT UPDATES/REPORTS

Spruce Railroad Trail Landslide Removal

Mr. Gray reported that Jeff Doryland, Acting Chief of Facility Management, confirmed that Olympic National Park (ONP) has obtained funding for slide removal. Bruch & Bruch is still under contract from the Spruce Railroad Trail work, and that the plan is to contract with Bruch & Bruch to remove the slide debris. ONP hopes to have more details on scope and schedule soon.

Chair Stevenson suggested that we request that ONP provide for an interim bypass trail over top of slide. He believes it can be done safely and not involve a lot of work. Work can be done by hand and would include cutting a path through a couple of the big logs and some trail surface work. He questioned whether ONP needs to remove all the debris in that there is room along the trail sides to store in place. Chair Stevenson made a motion to request ONP consider an interim bypass trail that was seconded. The motion passed with none opposed.

Olympic Adventure Trail (OAT) Motorcycle Barrier Removal Project

Mr. Gray reported that the removal of the motorized barriers on the OAT is nearing completion. Approximately three spots remain west of the Eden Valley Road trail access. He noted the County plans to keep the barrier at the Dan Kelly Road parking lot trail access for now, and will repaint and improve grade thru the barrier. This barrier is at the end of the parking lot and restricts access along with the gate to the powerline maintenance access road that provides access to the OAT. Chair Stevenson noted that he has heard a lot of positive feedback on the removal of the barriers on the OAT.

ODT-Forks to La Push

Mr. Gray reported that consultants for the Federal Highway Administration – Western Federal Highway Division (WFL) have prepared a draft project scoping report. WFL is the current project manager for delivery of this project. The purpose of the scoping report is to evaluate the project scope, schedule, costs, environmental and cultural review, permitting needs, risks, and delivery methodology.

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The scoping report looked at three options:

- Option 1: Based on County application (10-ft. wide paved trail – use existing SR 110 Bogachiel River Bridge SR 110 crossing).
- Option 2: Includes additional improvements for safety such as advanced warning lights at the SR 110 Bogachiel River Bridge crossing and a wider paved trail section (12 feet wide)
- Option 3: Includes all recommended improvements for the project – the main difference being a new bike and pedestrian bridge crossing of the Bogachiel River.

Draft cost estimates for Option 1 were significantly higher than County's Federal Lands Access Program (FLAP) ~ 5.9 million funding. The draft report is under review and the County anticipates reductions in cost estimates. For example, the draft estimate includes nearly 1 million for importing topsoil that the County believes is not needed. In addition, the cost estimate also includes a 30% contingency on total construction. As WFL moves toward into design and approaches final design, their goal is to eliminate or significantly reduce contingency costs.

Possible alternatives to address funding gaps for construction include adding FLAP funding and phasing project (e.g., construct segment from US 101 to 3 Rivers Areas). County delivery of project may also be an option to save on costs by using local forces for engineering design and construction management.

Mr. Gray noted that the draft report is now under agency review and the County anticipates WFL to issue a final report in April/May. WFL project manager will brief the Programming Decision Committee (PDC) established for Washington State for FLAP funding on the scoping report findings.

Chair Stevenson asked if FLAP funding is amenable to project phasing and obtaining additional FLAP funding under the current award. Mr. Gray indicated based on discussion with WFL that project phasing and additional funding under FLAP are both potential options. Chair Stevenson followed about whether the Joyce-Piedmont Road FLAP funding could be moved to this trail project to make for one fully funded project. Mr. Gray did not know about whether that can be done.

Chair Stevenson asked about status of County survey for the ODT- Forks to La Push route. Mr. Gray responded that the County has completed the right-of-way plat survey from US 101 to 3-Rivers Area, but has not completed the survey work west of the Bogachiel River. He noted the County can proceed with appraisal of the completed survey section.

Chair Stevenson inquired based on the update any issues with the state Recreational Conservation Office (RCO) grant. Mr. Gray responded that the County we will have at least two years to acquire trail corridor under the RCO grant. The County does not have the grant under contract yet, which is expected to occur sometime this summer. He added that the FLAP funding is for trail construction. Before we construct, we will have to acquire the trail corridor.

Port Angeles Waterfront Trail Section Maintenance

Mr. Gray reported that the City of Port Angeles met with PTC members and have identified about 20 spots along the waterfront trail needing repair or maintenance. The City is giving consideration to putting the work out to bid.

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DNR Striped Peak Trail Expansion and Improvement Project

Justin Zarzeczny, DNR, reported that a WTA work party is helping complete the Striped Peak trail that starts at the County Salt Creek Recreation Area. The trail expansion has made it to the top bunker just below the peak and a spur trail to the peak is in progress. When completed this will be a 4.5- mile loop trail designed for hikers but open to biker and horse use. Mr. Zarzeczny will provide a trail map to distribute to the TAC.

OLYMPIC DISCOVERY TRAIL MAINTENANCE REPORTS

Olympic Adventure Trail (OAT) – Bear Creek Crossing

Mr. Gray reported that the County Volunteer Trail Crew completed significant tread repair on the OAT on the approaches to the Bear Creek bridge crossings.

Year 2020 Volunteer Hours

Mr. Gray provided total reported ODT volunteer hours for Year 2020 that included:

- County Trail Volunteer Crew: 35 work days and over 1,600 hours
- PTC Trail Adopters: 2,416 reported hours
- PTC Work Parties: 285.5 reported hours

County Trail Maintenance Highlights

Mr. Gray highlighted County trail maintenance since the February meeting:

- Coordinated two volunteer work parties that included: 1) OAT – Bear Creek area tread work; and 2) improving drainage on steep OAT section near Hwy 112 trailhead just north of the powerline crossing. In regards to the latter, a volunteer work party is planned to return tomorrow to haul and add new gravel surfacing to complete the tread improvements.
- Continued motorcycle barrier removal project on the OAT.
- Removed downed tree and brush across fence just north of the Pristine Lane crossing in Bagley Creek area.
- Inspected and blew off trail debris from Siebert Creek to Deer Park rest stop.
- Inspected and blew off trail debris along the ODT- Kaycee Way to Elwha River Bridge section.
- Inspected and blew off trail debris along ODT – Gossett to Waterline Road section.

Other Maintenance Reports/Needs

Mr. Taylor acknowledged County efforts to spread baking soda for moss control in the Camp Creek Area. Mr. Gray noted that TAC member Eric Rohrer sent email that was continuing maintenance work on the 5-miles of trail east of Camp Creek today. Chair Stevenson commented on the high level of volunteer effort that supports the ODT is very unique and remarkable even during a pandemic.

PUBLIC COMMENTS

See earlier comments by Lorrie Mittman. No additional public comment.

ADJOURNMENT

Following a motion and no additional business, the meeting was adjourned.

DRAFT

March 29, 2021

Sound Publishing, Inc.

Volunteers keep Olympic Discovery Trail in shape

Jefferson County secures land for additional pathway

By DIANE URBANI DE LA PAZ
PENINSULA DAILY NEWS

A rare motorized vehicle was sighted just weekend on the Olympic Discovery Trail. The bright orange Kubota tractor dumped dirt on the path through the woods off Discovery Road just outside Port Townsend.

Its operator, Gary Weldon, is one among hundreds of volunteers who keep the two-county trail looking like just another feature of the landscape, along with the many rivers it crosses.

"All this time, the trail has been resilient. It wouldn't be here without the volunteers," said Merrily Mount, who brought some bright yellow vests out to the workers on a recent Saturday morning.

Mount is a member of the Peninsula Trails Coalition, a group formed in the 1980s around the members' wildest dream: a bicycle-pedestrian-equestrian path from Port Townsend to the Pacific Ocean.

The Olympic Discovery Trail today has four sections: the easternmost, 27 miles from Port Townsend Bay to Sequim Bay; the east central, which has nine bridges over rivers and creeks between Blyn and Port Angeles; the west central, spanning 32 miles from downtown Port Angeles to Lake Crescent; and the westernmost leg, 42 miles from the lake to La Push.

All along the route, at trailheads and city visitor centers, users will find new Olympic Discovery Trail maps; information is also at olympicdiscoverytrail.org.

While many miles separated from motor traffic, there are still gaps in the dedicated path, such as a 9-mile stretch on state Highway 20 in Jefferson County. Earlier this month, the county Public Works Department announced a small victory: acquisition of Rayonier-owned timberlands between Four Corners Road and Anderson Lake State Park.

The transaction cost \$125,900, county right-of-way representative Mara Dotson said. Other parcels are yet to be acquired, he added, but the Rayonier piece is the largest in the area where new trail will be built.

"It's one step forward," Dotson said. "We're still working with the other property owners."

TURN TO TRAIL/A3



A group of bicyclists make their way down a section of the Olympic Discovery Trail near William R. Fairchild International Airport on the west side of Port Angeles.

Coalition tips for etiquette

PENINSULA DAILY NEWS

The Peninsula Trails Coalition recommends the following trail etiquette guidelines. For more information, see [Olympicdiscoverytrail.org](http://olympicdiscoverytrail.org).

Pedestrians

- Yield to horses.
- Dogs must be on leash.
- Clean up after pets.
- Allow faster users to pass.

Bicyclists

- Stay to the right, and slow down in crowded stretches.

- Overtake other users on their left, using a calm voice to alert them.
- Don't ring bike bells when near horses.

Equestrians

- Maintain control over horses at all times.
- Help other users pass safely by providing spoken guidance.
- Remove manure; kick manure off the trail.
- Use the horse path when available or move to the side to allow others to pass safely.
- Cantering or galloping endangers others and may damage the trail.

Trail: Landslide along Crescent portion of ODT

CONTINUED FROM A1

This acquisition and others like it happen thanks to willing property owners and funding resources such as the state Recreation and Conservation Office, she noted.

In Clallam County, one of the Olympic Discovery Trail's marquee legs is along Lake Crescent: the Spruce Railroad Trail, which hugs the north shore for 5 miles.

"Our big problem right at the moment is it's closed" by a January landslide, said Gordon Taylor, Peninsula Trails Coalition East Clallam County vice president.

"There's a whole lot of mess on the sides to clean up," he added of the slide area, which is between the trail's two tunnels.

Reopen hopes

Taylor hopes the stretch will reopened by the end of April.

Until then, "I recommend the section between Blyn and Port Angeles," he said. "It's all open, and it's a very pleasant ride."

Features of the trail leg include the trestle bridge across the Dungeness River, a repurposed ship's loading ramp across Bagley Creek and another trestle over Morse Creek.

This past weekend, Jeff Selby, Peninsula Trails Coalition Jefferson County

Features of the trail leg include the trestle bridge across the Dungeness River, a repurposed ship's loading ramp across Bagley Creek and another trestle over Morse Creek.

vice president, went out for an extended bike ride on the Olympic Discovery Trail — 48 miles round trip, from Discovery Bay to Sequim and back.

While it was farther than he'd planned to go, he said it was a fine training ride for the late-summer trek he's planning.

Annual pedal

On a morning in August, Selby and friends from the coalition like to assemble at the trail's milepost zero in the Port Townsend Boat Haven, then ride to Lake Crescent to spend the night at the Log Cabin Resort.

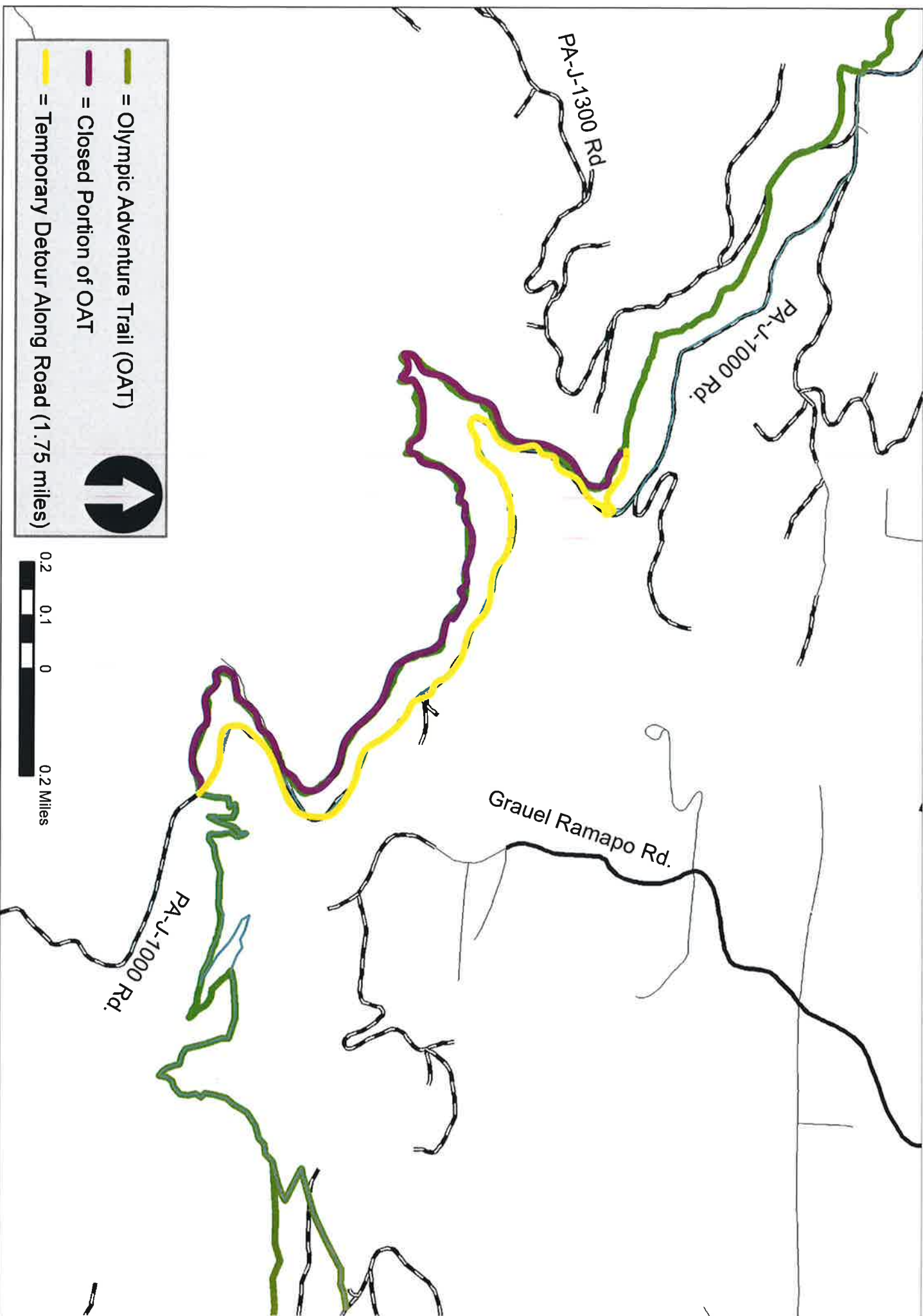
Next they pedal to the Quillayute River, near the trail's Pacific terminus and the continent's northwest edge.

Jefferson County senior reporter Diane Urbani de la Paz can be reached at 360-417-3509 or durbanidelapaz@peninsuladailynews.com.



DIANE URBANI DE LA PAZ/PENINSULA DAILY NEWS

In preparation for spring hikers, equestrians and bicyclists, volunteers Jeff Selby, foreground, and Gary Weldon spread dirt on the Larry Scott Trail, the Olympic Discovery Trail section around Port Townsend.





GUIDELINES

for *Olympic Discovery Trail's* **Signs & Structures**



Produced by the

Peninsula Trails Coalition

**PENINSULA
TRAILS
COALITION**

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Introduction to the Olympic Discovery Trail

The Olympic Peninsula is one of Washington State's most stunning destinations for non-motorized touring. The Olympic Discovery Trail winds through forests, ocean beaches, farmland, small towns, lakes, rivers, hot springs, tribal lands and Olympic National Park, a World Heritage biosphere. Traversing 120 miles of the lowlands between the Olympic Mountains and the Strait of Juan de Fuca, the route of the Olympic Discovery Trail (ODT) will connect the cities and sites of the northern Olympic Peninsula from Puget Sound to the Pacific Ocean beaches.

Construction began in the 90's. The presently completed trail travels through a variety of diverse landscapes, from fields and parks and towns, over creeks, rivers and ravines on restored railroad trestles, to beaches and national recreation areas. This paved bicycle and pedestrian highway, with equestrian side tracks in many areas, will provide non-motorized access along the entire North Olympic Peninsula.

Using This Guide

The Olympic Discovery Trail has established a distinctive brand character that places it in the company of world-class multi-user trails. This manual provides style guidelines that support the brand image of the ODT and enhance the experience of trail users through the application of a consistent style in the delivery of trail information. The purpose of this guide is to establish clear definitions of the informational signage and structural elements that are used along the Olympic Discovery Trail, with references to construction drawings, materials, computer files and processes that are required to make or procure each item. Together these establish the unique character of the trail, as well as making the trail itself safer and more usable. They provide a consistent visual image on constructed features and signage over the length of the trail. This manual does not deal with regulatory signage, which is controlled by Local, State and Federal standards.

The Peninsula Trails Coalition (PTC) maintains the CAD documentation drawings and graphic files needed for each structural or sign element controlled by these guidelines, and provides them to jurisdictions as required. PTC has volunteers skilled in making, routing, and installing each of the structures and will provide and/or install them on request at no cost. We also have skilled graphic volunteers who will prepare the computer files needed to procure signs for use along the trail, again at no cost to the jurisdiction. If design modifications are required to adjust for special situations or locations, PTC will be pleased to work with the jurisdiction to provide modified documentation. We also support maintenance and repair of any of these structures when needed, and maintain an inventory of the standard signs for fast response installation or repair.

Sign Type and Process

Signs used along the ODT are high resolution, full color digitally printed signs designed for long life with full outdoor exposure. We utilize the v.3 process and materials as specified by 3M Co. We provide the sign graphics as an .eps vector file (and/or a bitmap file in any of the common formats) for bidding and fabrication. These are printed using piezo ink jet printers on 3m Controltac Graphic IJ180Cv3 UV resistant Film. We specify a 3M 8519 over laminate for graffiti resistance and image protection. Generally the films are mounted on 3A Composites Dibond panels. These are comprised of two .012 painted aluminum sheets with a solid polyethylene core.

We use .125"-thick sheets for signs mounted to

backing (as on kiosks). However, solid aluminum backing sheets can be used for strength in standalone signs if desired, in any desired thickness.

Under full exposure conditions, these signs generally provide a 15-year life, potentially more with shade protection (e.g. roofs on kiosks). Sign size references are shown in inches, height x width."





Route marker sign

These small vertical signs appear at frequent intervals along the trail. They are used to confirm users are still on ODT, particularly at intersections and other potentially confusing spots. They are mounted on one 4x4 or steel post just off the trail. PTC Drawing 14.10-4 and the referenced graphic file define the sign. The size is 7"x3.5".



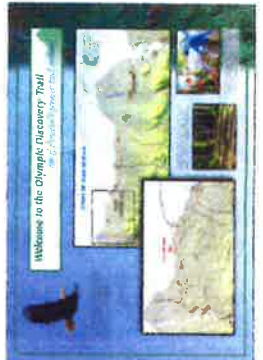
Brand identifiers

These add-on signs are designed to be used to mount on the trail structures along the route. You can see them on the structures in the next section. PTC Drawing 15.3-1, -2, -3, -4 and referenced graphic files define these signs. Sizes are #1 (3.5x14"), #2 (5x20.5"), #3 (3.5x20"), and #4 (2x16").



Volunteer adopter sign

This sign is used to acknowledge volunteer trail adopters by mounting to 4x4 post or metal stake somewhere central in the adopted section. PTC Drawing 15.3-2 and referenced graphic file define the sign. Size is 8x10". The adopter name(s) are applied with weather resistant stick-on black block letters, 3/4" high on up to three lines.



Trail information signs

These signs are one of a kind signs that provide information either specific to a site of special interest, or maps and sites to look for along a section of the trail. They are mounted on kiosks at trailheads or at approaches to cities or other places where local info is needed. They are also mounted on Information Display Stands at sites



Structures



Information kiosk

These large kiosks provide information and trail maps to trail users at ODT trail heads. They generally present a local map of the neighborhood of the trailhead with a "you are here" indicator, and a larger map that shows the trail route for 10 miles or so in either direction. A "take one" map box is attached to the kiosk frame. Information and photos feature local points of interest. The back side of the kiosk is used for posting notices. PTC Drawing 14.10-1 defines the structure and provides a bill of materials. Overall size is 5ft wide x 4ft footprint and 8' high. Display space is 3'x4'. All exposed surfaces are stained medium dark brown. Brand identifier 15.3-2 is attached to the lower cross beam as shown.



Wayfinding kiosk

These small kiosks are used to provide local area information at points along the trail. The example shown is at the east entrance to downtown Sequim, and shows ODT users connections to the town trail system, as well as store, restaurant, and lodging locations. The back side can be used for posting notices. A "take one" map box is attached to the frame. PTC Drawing 14.9-1 defines the construction and materials. Overall size is 40" wide x 38" footprint, 8' high. Display space is 32"x24". All exposed surfaces are stained medium dark brown. PTC 15.3-3 identifier is attached to the lower cross beam.

of interest. Each sign is defined by its graphic file, identified by location and date in the file title. The sign sizes for the standard structures are (approx.) 36x48" for large kiosks, 32x24" for small kiosks, and 18x24" or 24x36" for information stands. Kiosk signs have about 0.5" bleed for mounting strips, info stands are mounted flush. Background color and style follow the examples shown.



Trailhead entrance

This routed sign appears at the road entrance to all ODT trailheads. The trailhead name appears below the trail ID. It may also be used in other locations where trail access from a road is available, in which case the trailhead name is replaced with "road name" Access. PTC Drawing 14.10-2 defines the structure. The sign area is 32x40". Finish is medium dark brown stain on all exterior surfaces. Routed lettering is filled with white exterior latex paint except "Discovery" is in standard yellow-gold paint. Attach PTC 14.10-4 Route Marker to left of trail name as shown.



Trail mileage structure

This sign provides the distance to other points along the trail from the sign location. They are also used at intersections to show direction and distance on side trails or roads. Two lines of lettering are routed into clear 5/4 cedar boards 7.5x42". Up to four can be mounted on a pair of 6 ft. 4x4" posts, spaced 28". Construction and routing is defined by PTC Drawing 14.11-1. The cedar is left unfinished and ages to silver grey. The routed letters are filled with black exterior latex paint. The posts should be stained medium dark brown. If space permits, attach PTC 15.3-4 identifier in place of a line of lettering.



Dismount and hitch station

These stations are provided at locations where we have equestrian access and they need to dismount to use facilities, read maps etc. It is defined by PTC Drawing 14.11-2. The stand is 2'x4" on a gravel pad with 1' steps, filled with sand. Finish is medium dark brown exterior stain on all surfaces. Attach PTC 15.3-4 identifier to side of stand facing trail



Dog station

ODT is presently using commercial components for a dog station. However, in suburban areas this is a very popular feature, so we expect to develop an ODT unique design featuring dog regulations that are consistent with our jurisdictions. PTC Drawing 15.5-1 defines the current station.

Trail bike rack

Bike racks are provided at trailheads as a convenience to bicyclists when loading or unloading, or just using the trailhead maps and facilities. PTC Drawing 15.3-3 defines a wood stand consistent with our other structures. Finish is medium dark brown exterior stain on all surfaces. Attach PTC 15.3-4 identifier.



Sanican base

We pour a concrete sanican base with tie downs at each of our trailheads, and commercial sanicans are leased with service. Our sanican base drawing PTC 14.11-3 defines both regular and handicapped sizes. Drawing PTC 14.11-3 defines both regular and handicapped size concrete bases.



Information display stand

Information displays are placed along the trail to provide information about points of interest. PTC Drawing 14.11-4 defines a wood stand built to outlast the sign est. life time, in either 18x24" or 24x36" sizes, finished in medium brown stain.



Trail picnic table

Tables with benches are placed at most trailheads and selected rest areas to provide a place to sit or eat, or to load up packs and bikes for a trip. We use galvanized steel frames fastened to concrete pads, with 2'x10' cedar or fir planks for seats and tops that can be replaced. They are available in 6' and 8' lengths. PTC Drawing 15.5-2 provides frame sources and assembly/ repair information.



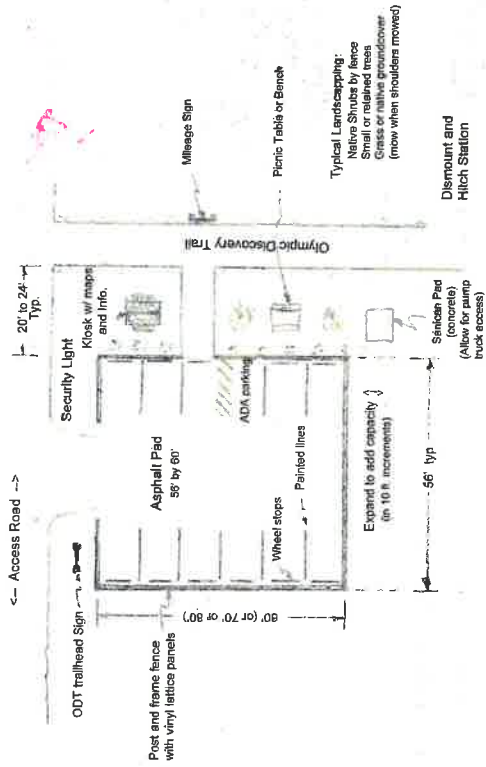
Parking fence design guidelines

Fencing around the parking area leaves the rest of the area more natural, as well as providing some protection for users. We use post and rail construction with UV resistant vinyl privacy panels, as shown, which is easily built or maintained by our volunteer crews. Corner and end posts are set in concrete. PTC Drawing 15.5-3 defines construction and finish details for parking, handicapped provisions. The structure is based on 4' x 8' panels with 7' posts (2' in ground) and 2x4 rails. Panels are light cedar, posts and rails have dark brown exterior stain with 25% solids. Attach PTC Drawing 14.10-4 markers to posts on either side of road entrance lot and lot exit to trail.

Security lighting design guidelines

Most of our trailheads are on roads with power lines which makes having a security light reasonable. The PUD will place a light pole at the edge of the trailhead. By selecting the higher wattage lamp available and a suitably tall pole, it is generally possible to shed light on the trail crossing of the road, the installations and signs at the trailhead, and some light over the fence into the parking area. The jurisdiction must agree to pay the light bill.

Typical Trailhead Layout for Olympic Discovery Trail
Each Location Will Require Some Adjustments



Trailhead layout

Each trailhead requires a specific design effort to integrate all the design elements into the land available and to accommodate the road and trail geometry. Road access permits are required. Road, trail, and parking lot drainage requirements must be accommodated. The jurisdiction for the section of trail involved has final approval authority.

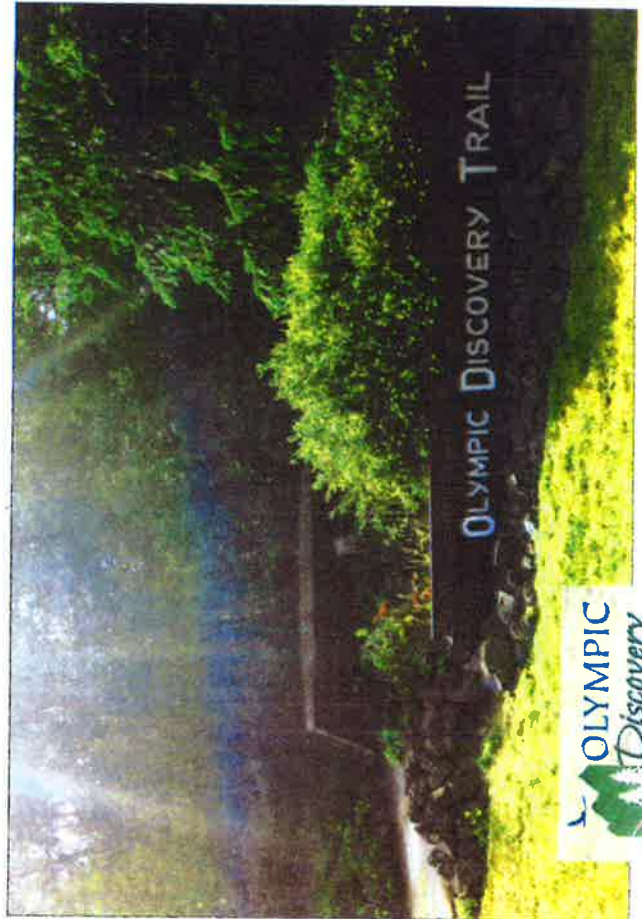


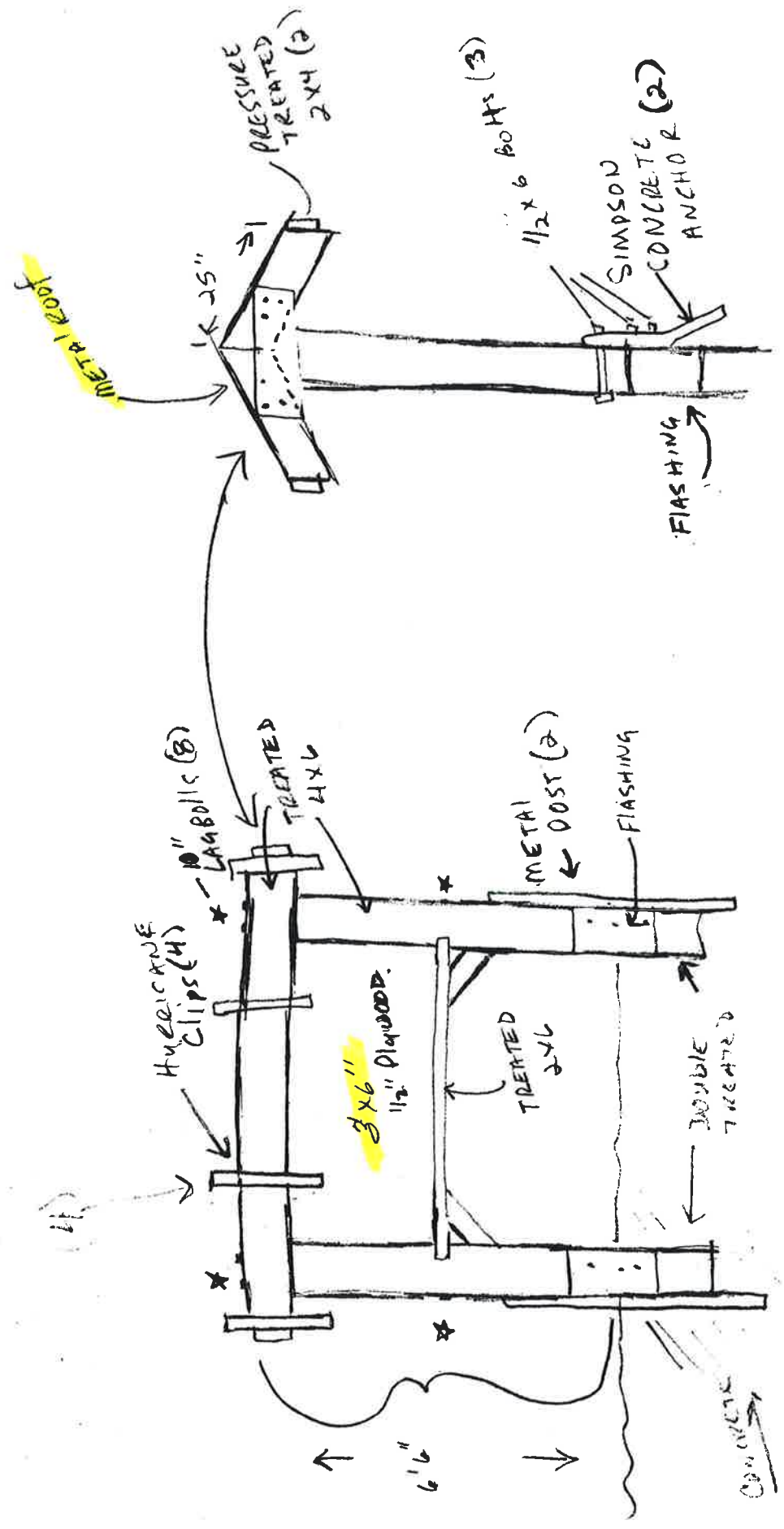
Photo by bobbi fabeliano



New Kiosk at Trailhead Access off of Strait View Drive Before Morse Creek Bridge Trestle



Proposed Kiosk Design at Kitchikan - Dick Road Crossing





Bollards

ID 1

Segment number 201

Location Diamond Point Rd. - East

Description Center drop in 30 x 2.5 in pipe, no sides

Guide marking Diamond + guide lines

Latitude 48° 3'2.52"N

Longitude 122°57'3.18"W

Field1



Field2



ID 2

Segment number 201

Location Knapp Rd.

Description Center drop in 30 x 2.5 in pipe, no sides, both sides of road

Guide marking Diamond + guide lines

Latitude 48° 3'3.59"N

Longitude 122°57'41.71"W

Field1



Field2



ID	3
Segment number	201
Location	Michigan School Rd.
Description	Center fold 42 x 2.5 in pipe, 2 - 30 x 2.5 in pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 3'1.57"N
Longitude	122°58'6.66"W

Field1



Field2

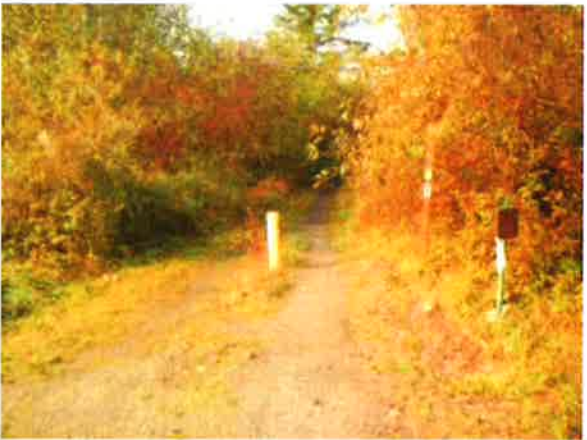


ID	4
Segment number	202
Location	Pierce Rd.
Description	Center drop in 8in PVC pipe, no sides
Guide marking	None, dirt section
Latitude	48° 2'56.18"N
Longitude	122°58'21.79"W

Field1



Field2



ID	5
Segment number	202

Location	North Old Blyn Highway
Description	Center drop in 8in PVC pipe, no sides
Guide marking	None, dirt section
Latitude	48° 2'38.48"N
Longitude	122°58'53.54"W

Field1



Field2



ID	7
Segment number	203
Location	Blyn Rd.
Description	2 - fold 42 x 2.5 in pipe, 4 - 6 x 6 wood sides
Guide marking	2 x diamonds
Latitude	48° 2'3.34"N
Longitude	122°59'21.67"W

Field1



Field2



ID 8

Segment number 203

Location Jamestown parking

Description Center fold 30 x 2.5 in pipe, no sides, both sides of drive

Guide marking Diamond + guide lines

Latitude 48° 1'36.08"N

Longitude 122°59'42.79"W

Field1



Field2



ID 9

Segment number 203

Location Heron Hall

Description Center drop in 30 x 2.5 in pipe, no sides, both sides of drive

Guide marking None

Latitude 48° 1'33.57"N

Longitude 122°59'42.53"W

Field1



Field2



ID 10

Segment number 203

Location	Blyn Crossing Rd.
Description	2 - 30 Center drop in 4 in pipe, no sides
Guide marking	None
Latitude	48° 1'19.90"N
Longitude	123° 0'1.25"W

Field1



Field2



ID	11
Segment number	204
Location	Old Blyn Highway-MP27
Description	Center drop in 42 x 4 in pipe, 2 x pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 1'19.43"N
Longitude	123° 0'16.59"W

Field1



Field2



ID12

Segment number204

LocationJimmycomelately Bridge 1 - East

DescriptionCenter drop in 42 6 pipe, bridge sides

Guide markingDiamond + guide lines

Latitude48° 1'15.67"N

Longitude123° 0'23.20"W

Field1



Field2



ID 13

Segment number 204

Location Jimmycomelately bridge 1 - West

Description Center drop in 42x 6 pipe, bridge sides

Guide marking Diamond + guide lines

Latitude 48° 1'16.00"N

Longitude 123° 0'24.16"W

Field1



Field2



ID 14

Segment number 204

Location	Jimmycomelately bridge 2 - East
Description	Center drop in 42x 6 pipe, bridge sides
Guide marking	Diamond + guide lines
Latitude	48° 1'18.23"N
Longitude	123° 0'29.12"W

Field1



Field2

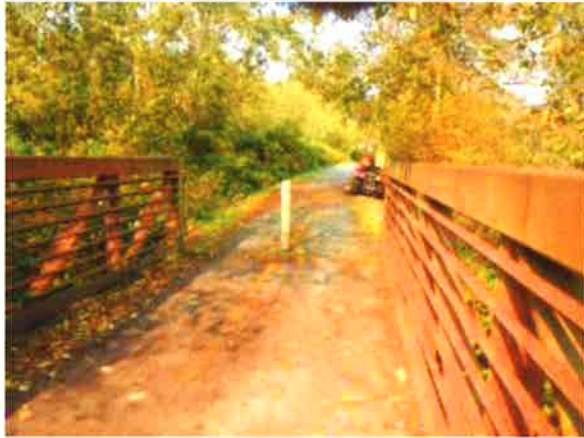


ID	15
Segment number	204
Location	Jimmycomelately bridge 2 - West
Description	Center drop in 42x 6 pipe, bridge sides
Guide marking	Diamond + guide lines
Latitude	48° 1'18.92"N
Longitude	123° 0'30.30"W

Field1



Field2



ID 16

Segment number 204

Location Correa Rd

Description Center drop 42 x 4 in pipe, 2 - 4in pipe sides

Guide marking Diamond + guide lines

Latitude 48° 1'26.23"N

Longitude 123° 0'38.41"W

Field1



Field2



ID 17

Segment number 205

Location US101 - Blyn

Description Fabricated 42 x 4 fold down, no sides

Guide marking Diamond + guide lines

Latitude 48° 1'35.92"N

Longitude 123° 0'51.68"W

Field1



Field2



ID 18

Segment number 205

Location	Dawley Rd
Description	Center fold 42 x 2.5 in pipe, 2 - 4 in pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 1'50.42"N
Longitude	123° 1'10.10"W

Field1



Field2



ID	19
Segment number	207
Location	Ramblewood entrance
Description	Center fold 42 x 2.5 in pipe, no sides
Guide marking	Diamond + guide lines
Latitude	48° 2'12.02"N
Longitude	123° 1'45.40"W

Field1



Field2



ID 20

Segment number 207

Location Squim Bay State Park - East

Description Center fold 42 x 2.5 in pipe, no sides

Guide marking None

Latitude 48° 2'16.72"N

Longitude 123° 1'44.89"W

Field1



Field2



ID 21

Segment number 207

Location Sequim Bay State Park Bridge

Description Center fold 42 x 2.5 in pipe, no sides

Guide marking None

Latitude 48° 2'24.60"N

Longitude 123° 1'39.03"W

Field1



Field2



ID 22

Segment number 207

Location	Squim Bay State Park - road - East
Description	Center fold 42 x 2.5 in pipe, no sides
Guide marking	None
Latitude	48° 2'28.86"N
Longitude	123° 1'43.34"W

Field1



Field2

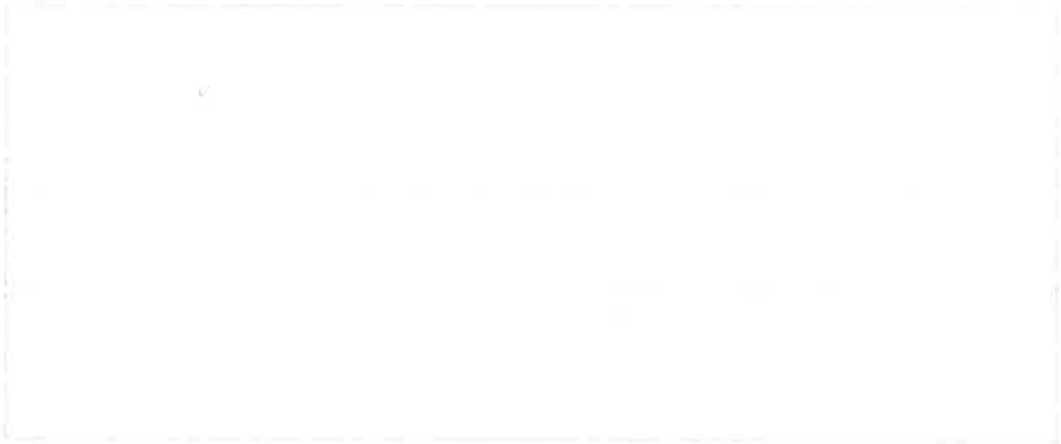


ID	23
Segment number	207
Location	Squim Bay State Park - road - West
Description	Center fold 42 x 2.5 in pipe, no sides
Guide marking	None
Latitude	48° 2'30.28"N
Longitude	123° 1'44.36"W

Field1



Field2



ID	24
Segment number	207
Location	Squim Bay State Park - West
Description	Center fold 42 x 2.5 in pipe, no sides
Guide marking	None
Latitude	48° 2'35.06"N
Longitude	123° 1'50.24"W

Field1



Field2



ID 25

Segment number 208

Location Barker Rd.

Description Center fold 42 x 2.5 in pipe, no sides

Guide marking Diamond + guide lines

Latitude 48° 2'47.82"N

Longitude 123° 2'2.82"W

Field1



Field2



ID 26

Segment number 208

Location	Discovery Creek
Description	6 in round Wood center, bridge sides
Guide marking	Diamond + guide lines
Latitude	48° 2'50.34"N
Longitude	123° 2'6.13"W

Field1



Field2



ID	27
Segment number	208
Location	West Sequim Bay Rd 1 - East
Description	Center fold 42 x 2.5 in pipe, wood sides
Guide marking	Diamond + guide lines
Latitude	48° 2'53.41"N
Longitude	123° 2'9.45"W

Field1



Field2



ID 28

Segment number 209

Location West Sequim Bay Rd 1 - West

Description Center fold 42 x 2.5 in pipe, no sides

Guide marking Diamond + guide lines

Latitude 48° 2'54.58"N

Longitude 123° 2'10.90"W

Field1



Field2



ID 29

Segment number 301

Location Whitefeather Way - East

Description 2 - 30 x 2.5 in drop in, 4 - 30 x 6 in square wood

Guide marking None

Latitude 48° 3'41.76"N

Longitude 123° 3'2.77"W

Field1



Field2



ID 30

Segment number 301

Location Whitefeather Way - West

Description 4 - 30 x 6 in square wood

Guide marking None

Latitude 48° 3'41.55"N

Longitude 123° 3'10.45"W

Field1



Field2



ID 31

Segment number 302

Location Johnson Creek trestle - East

Description 1 - 30 in 6x6 wood - Bridge sides

Guide marking Diamond + guide lines

Latitude 48° 3'43.15"N

Longitude 123° 3'11.33"W

Field1



Field2



ID	32
Segment number	302
Location	Johnson Creek trestle - West
Description	1 - 30 in 6x6 wood - Bridge sides
Guide marking	Diamond + guide lines
Latitude	48° 3'43.36"N
Longitude	123° 3'16.36"W

Field1



Field2



ID 33

Segment number 303

Location Simdars Rd

Description 1 - 42 in x 2.5 drop in - no sides

Guide marking Diamond + guide lines

Latitude 48° 4'10.08"N

Longitude 123° 4'8.38"W

Field1



Field2



ID 34

Segment number 303

Location	Washington St East
Description	1 - 42 in x 2.5 drop in - no sides
Guide marking	Diamond + guide lines
Latitude	48° 4'12.34"N
Longitude	123° 4'14.55"W

Field1



Field2



ID	35
Segment number	303
Location	Washington St 4
Description	1 - 30 in 6x6 wood - No sides
Guide marking	Diamond + guide lines
Latitude	48° 4'15.22"N
Longitude	123° 4'21.44"W

Field1



Field2



ID 36

Segment number 303

Location Washington St 3

Description 1 - 30 in 6x6 wood - No sides

Guide marking Diamond + guide lines

Latitude 48° 4'16.44"N

Longitude 123° 4'24.57"W

Field1



Field2



ID	37
Segment number	303
Location	Washington St 2
Description	1 - 30 in 6x6 wood - No sides
Guide marking	Diamond + guide lines
Latitude	48° 4'18.56"N
Longitude	123° 4'29.79"W

Field1



Field2



ID	38
Segment number	303

Location	Washington St West
Description	1 - 30 in 6x6 wood - No sides
Guide marking	Diamond + guide lines
Latitude	48° 4'20.36"N
Longitude	123° 4'34.25"W

Field1



Field2



ID	39
Segment number	303
Location	Rhodefer Rd
Description	1 - 42 in x 2.5 drop in - no sides
Guide marking	Diamond + guide lines
Latitude	48° 4'26.64"N
Longitude	123° 4'49.73"W

Field1



Field2



ID 40

Segment number 304

Location West Sequim Bay Rd 2

Description 1 - 30 in 6x6 wood - No sides

Guide marking Diamond - no guides

Latitude 48° 4'33.28"N

Longitude 123° 4'50.97"W

Field1



Field2



ID 41

Segment number 305

Location Carrie Blake - East

Description 1 - 3 inch pipe drop in - no sides

Guide marking Diamond + guide lines

Latitude 48° 4'46.20"N

Longitude 123° 4'50.55"W

Field1



Field2



ID 42

Segment number 305

Location	Carrie Blake Bridge
Description	2 x 1 - 6 inch fixed concrete
Guide marking	None

Latitude	48° 4'52.65"N
Longitude	123° 4'51.01"W

Field1



Field2



ID	43
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Segment number	305
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Location	Carrie Blake - East Road
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Description	2 x 1 - 3 in drop in pipe - no sides
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Guide marking	Diamond - guides (faded)
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Latitude	48° 4'56.22"N
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Longitude	123° 4'50.80"W
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Field1



Field2



ID 44

Segment number 306

Location Hendrickson 152 - East

Description 1 - 30 x 8 inch concrete + broken stub marked with pylon

Guide marking None

Latitude 48° 5'13.10"N

Longitude 123° 6'12.65"W

Field1



Field2



ID 45

Segment number 306

Location Hendrickson 152 - West

Description 1 - 30 x 8 inch concrete - no sides

Guide marking None

Latitude 48° 5'13.05"N

Longitude 123° 6'13.36"W

Field1



Field2



ID 46

Segment number 306

Location	Hendrickson Bridge
Description	1 - 30 x 3 pipe - no sides
Guide marking	Minimal
Latitude	48° 5'13.05"N
Longitude	123° 6'16.86"W

Field1



Field2



ID	47
Segment number	401
Location	Priest Rd.
Description	Center fold 42 x 2.5 in pipe, no sides
Guide marking	Diamond + guide lines
Latitude	48° 5'6.69"N
Longitude	123° 7'56.29"W

Field1



Field2



ID	48
Segment number	403
Location	RRBridge - East
Description	1 - 42 x 4 pipe, rock side
Guide marking	Diamond + guide lines
Latitude	48° 5'13.04"N
Longitude	123° 9'29.12"W

Field1



Field2



ID 49

Segment number 404

Location Heath Rd

Description 2 - 42 x 4 in pipe drop in, 2 -42 inch pipe sides. (one of the centers has been removed)

Guide marking Diamond + guide lines (faded)

Latitude 48° 5'22.20"N

Longitude 123° 9'44.05"W

Field1



Field2



ID 50

Segment number 404

Location	Banana Way - East
Description	1 - 42 x 6 inch pipe, no sides
Guide marking	Diamond + guide lines
Latitude	48° 5'33.13"N
Longitude	123°10'7.43"W

Field1



Field2



ID	51
Segment number	405
Location	Banana Way - West
Description	1 - 42 in fabricated center fold down, 2 - 42 x 6 inch sides on north only
Guide marking	Diamond + guide lines
Latitude	48° 5'33.27"N
Longitude	123°10'8.37"W

Field1



Field2



ID 52

Segment number 405

Location Carlsborg - East

Description 1 - 42 x 6 in pipe drop in, 1 - 42 x 6 inch side, south only

Guide marking None

Latitude 48° 5'36.09"N

Longitude 123°10'22.04"W

Field1



Field2



ID 53

Segment number 406

Location Carlsborg Pump Station Access

Description 2 - 42 x 6 inch pipe, solid, 2 - 42 x 6 inch pipe sides

Guide marking None

Latitude 48° 5'36.59"N

Longitude 123°10'22.98"W

Field1



Field2



ID 54

Segment number 406

Location	Kitchen-Dick - East
Description	1 - 42 x 6 inch pipe drop in, 2 - 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 5'56.90"N
Longitude	123°12'0.13"W

Field1



Field2



ID	55
Segment number	407
Location	Kitchen-Dick - West
Description	1 - 42 x 6 inch pipe drop in, 2 - 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 5'57.68"N
Longitude	123°12'1.93"W

Field1



Field2



ID 56

Segment number 407

Location Vautier Rd.

Description 1 - 42 x 6 inch pipe drop in, 2 - 42 x 6 inch pipe sides

Guide marking Diamond + guide lines

Latitude 48° 6'5.26"N

Longitude 123°12'39.13"W

Field1



Field2



ID 57

Segment number 408

Location Robin Hill Park - East

Description 1 - 42 inch fabricated, 2 - 42 x 6 inch wood sides

Guide marking Diamond + guide lines

Latitude 48° 5'52.27"N

Longitude 123°12'40.21"W

Field1



Field2



ID 58

Segment number 408

Location	Robin Hill Park - West
Description	1 - 42 inch 6 x6 wood, 2 - 42 x 6 inch wood sides
Guide marking	Diamond + guide lines
Latitude	48° 5'52.29"N
Longitude	123°13'5.63"W

Field1



Field2



ID	59
Segment number	408
Location	Quail Run Private Crossing
Description	2 x 42 x 6 in pipe drop in, 1 - 42 in 6 x6 wood, south only
Guide marking	Diamond + guide lines
Latitude	48° 5'52.33"N
Longitude	123°13'15.20"W

Field1



Field2



ID 60

Segment number 408

Location Rubens Dr.

Description 1 - 42 x 6 in pipe drop in, 2 - 42 in 6 x6 wood

Guide marking Diamond + guide lines

Latitude 48° 5'52.37"N

Longitude 123°13'18.48"W

Field1



Field2



ID 61

Segment number 409

Location Pinnell Rd

Description 1 - 42 - 6x6 wood, 2 - 42 - 6 x 6 wood sides

Guide marking None

Latitude 48° 5'52.79"N

Longitude 123°13'18.95"W

Field1



Field2



ID 62

Segment number 409

Location	McDonnell Cr - E
Description	1 - 42 inch fabricated, 2 - ecology block sides
Guide marking	Diamond + guide lines
Latitude	48° 5'53.01"N
Longitude	123°13'28.84"W

Field1



Field2



ID	63
Segment number	410
Location	Barr Rd - East
Description	1 - 42 inch fabricated, 2 - 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 5'51.95"N
Longitude	123°13'56.93"W

Field1



Field2



ID	64
Segment number	410
Location	Barr Rd - West
Description	1 - 42 x 6 pipe drop in, no sides
Guide marking	Diamond + guide lines
Latitude	48° 5'52.29"N
Longitude	123°13'58.37"W

Field1



Field2



ID 65

Segment number 411

Location Freedom Farm - East

Description 1 - 30 x 8 inch PVC, 2 - 42 x 6 in pipe sides

Guide marking Diamond + guide lines

Latitude 48° 5'52.49"N

Longitude 123°14'33.06"W

Field1



Field2



ID 66

Segment number 411

Location	Spring Rd
Description	1 - 30 x 8 inch PVC, 2 - 42 x 6 in pipe sides, 2 - 6 x 6 wood sides
Guide marking	Diamond + guide lines
Latitude	48° 5'59.18"N
Longitude	123°14'55.79"W

Field1



Field2



ID	67
Segment number	413
Location	Heuhslein Rd.
Description	1 - 30 x 8 inch PVC, 2 - 42 x 6 in pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 6'18.22"N
Longitude	123°14'56.68"W

Field1



Field2



ID 68

Segment number 413

Location Old Olympic Highway private crossing

Description 2 - 42 x 6 inch pipe drop in, 42 x 6 inch pipe sides

Guide marking Diamond + guide lines

Latitude 48° 6'23.82"N

Longitude 123°16'9.94"W

Field1



Field2



ID

69

Segment number

413

Location

Lewis Rd

Description

1 - 42 x 6 inch pipe drop in, 42 x 6 inch pipe sides

Guide marking

Diamond + guide lines

Latitude

48° 6'24.74"N

Longitude

123°16'22.72"W

Field1



Field2



ID

70

Segment number

414

Location	Siebert Creek - East
Description	1 - 42 inch fabricated, 2 - 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 6'22.50"N
Longitude	123°16'38.92"W

Field1



Field2



ID	71
Segment number	414
Location	Wild Current Way parking
Description	1 - 42 x 6 inch pipe drop in, 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 6'23.73"N
Longitude	123°16'43.05"W

Field1



Field2



ID 72

Segment number 415

Location Siebert Creek - West

Description 1 - 42 x 6 inch pipe drop in, 42 x 6 inch pipe sides

Guide marking Diamond + guide lines

Latitude 48° 6'21.47"N

Longitude 123°16'49.27"W

Field1



Field2



ID 73

Segment number 415

Location Old Olympic Highway

Description 1 - 30 x 8 inch PVC, 1 - 42 x 6 in pipe, east side

Guide marking Diamond + guide lines

Latitude 48° 6'19.62"N

Longitude 123°16'55.24"W

Field1



Field2



ID 74

Segment number 415

Location	Gasman Road - Second East
Description	1 - 30 x 8 inch wood drop in, 2 x ecology block sides
Guide marking	Diamond + guide lines
Latitude	48° 6'43.66"N
Longitude	123°17'57.71"W

Field1



Field2



ID	75
Segment number	415
Location	Gasman Road - East
Description	1 - 42 x 6 inch pipe drop in, 2 x ecology block sides
Guide marking	Diamond + guide lines
Latitude	48° 6'42.44"N
Longitude	123°18'2.06"W

Field1



Field2



ID	76
Segment number	416
Location	Gasman Road - West
Description	1 - 42 x 6 inch pipe drop in, no sides
Guide marking	Diamond + guide lines
Latitude	48° 6'42.06"N
Longitude	123°18'2.79"W

Field1



Field2



ID 77

Segment number 416

Location Bobcat Hollow - East

Description 1 - 42 x 6 inch pipe drop in, 1 - 42 x 6 inch pipe (south), 1 - concrete form (north) sides

Guide marking Diamond + guide lines

Latitude 48° 6'36.99"N

Longitude 123°18'17.41"W

Field1



Field2



ID 78

Segment number 416

Location	Bobcat Hollow - West
Description	1 - 42 x 6 inch pipe drop in, 2 - 42 x 6 inch pipe sides
Guide marking	Diamond + guide lines
Latitude	48° 6'37.33"N
Longitude	123°18'18.81"W

Field1



Field2



ID	79
Segment number	416
Location	Pristine Lane - East
Description	1 - 42 x 6 inch pipe drop in, 2 - 42 x 6 x 6 inch wood sides
Guide marking	Diamond + guide lines
Latitude	48° 6'26.11"N
Longitude	123°19'5.72"W

Field1



Field2



ID	80
Segment number	416
Location	Pristine Lane - West
Description	1 - 42 x 6 inch pipe drop in, 1 - 42 x 6 inch side (north)
Guide marking	Diamond + guide lines
Latitude	48° 6'25.71"N
Longitude	123°19'6.16"W

Field1



Field2



ID 81

Segment number 416

Location Lake Farm Road - East

Description 1 - 42 x 6 inch pipe drop in, 1 - 42 x 6 inch side (north)

Guide marking Diamond + guide lines

Latitude 48° 6'24.31"N

Longitude 123°19'12.03"W

Field1



Field2



ID 82

Segment number 417

Location	Lake Farm Road - West
Description	1 - 42 inch center fabricated, 1 - 6 in pipe (north), 1 - 6 x 6 wood (south) sides
Guide marking	Diamond + guide lines
Latitude	48° 6'24.14"N
Longitude	123°19'13.50"W

Field1



Field2



ID	83
Segment number	417
Location	Bagley Creek Road - East
Description	1 - 30 x 8 inch PVC, 2 - 6 x 6 wood sides
Guide marking	Diamond + guide lines
Latitude	48° 6'24.22"N
Longitude	123°19'44.89"W

Field1



Field2



ID

84

Segment number

418

Location

Bagley Creek Road - West

Description

1 - 6 inch pipe drop in, 2 - 6 x 6 wood sides

Guide marking

Diamond + guide lines

Latitude

48° 6'26.10"N

Longitude

123°19'45.81"W

Field1



Field2



ID

85

Segment number

418

Location

Breezy Lane - East

Description

1 - 42 x 6 inch pipe drop in, 1 - 42 x 6x6 wood side (south)

Guide marking

Diamond + guide lines

Latitude

48° 6'20.85"N

Longitude

123°20'13.84"W

Field1



Field2



ID

86

Segment number

418

Location	Breezy Lane - West
Description	1 - 42 x 6 inch pipe drop in, 2 - 42 x 6x6 wood sides
Guide marking	Diamond + guide lines
Latitude	48° 6'20.56"N
Longitude	123°20'13.93"W

Field1



Field2



ID	87
Segment number	419
Location	Gun Club entrance
Description	2 - 42 x 6 inch pipe drop in
Guide marking	Diamond + guide lines
Latitude	48° 6'15.73"N
Longitude	123°20'35.02"W

Field1



Field2



ID 88

Segment number 419

Location Deer Park Loop

Description Center fold 42 x 2.5 in pipe, 2 - 30 x 2.5 in pipe sides

Guide marking Diamond + guide lines

Latitude 48° 6'23.47"N

Longitude 123°20'41.12"W

Field1



Field2



ID 89

Segment number 419

Location Deer Park Rest Stop

Description 2 ea - Fold 42 x 2.5 in pipe, no sides

Guide marking None

Latitude 48° 6'26.88"N

Longitude 123°20'52.05"W

Field1



Field2



ID 90

Segment number 419

Location	Morse Creek Hill - Top
Description	1 - 42 x 6 inch pipe, no sides
Guide marking	Diamond + guide lines
Latitude	48° 6'20.93"N
Longitude	123°21'0.50"W

Field1



Field2



ID	91
Segment number	419
Location	Strait View Drive - East
Description	1 - 6 inch pipe drop in, 2 - rock sides
Guide marking	Diamond + guide lines
Latitude	48° 6'15.32"N
Longitude	123°21'15.93"W

Field1



Field2



ID	92
Segment number	420
Location	Strait View Drive - West
Description	1 - 30 x 8 inch concrete
Guide marking	West side only, partial diamond
Latitude	48° 6'14.38"N
Longitude	123°21'19.49"W

Field1



Field2



ID

93

Segment number

501

Location

Morse Creek Private Rd - East

Description

1 - 6 inch pipe drop in, no sides

Guide marking

Diamond + guide lines

Latitude

48° 6'55.17"N

Longitude

123°21'16.97"W

Field1



Field2



ID

94

Segment number

501

Location	Morse Creek Private Rd - West
Description	1 - 6 inch pipe drop in, no sides
Guide marking	Diamond + guide lines
Latitude	48° 6'55.51"N
Longitude	123°21'17.24"W

Field1



Field2



ID	95
Segment number	506
Location	Port Angeles City Pier
Description	1 - 30 x 6 inch pipe drop in, no sides
Guide marking	None
Latitude	48° 7'10.68"N
Longitude	123°25'45.49"W

Field1



Field2



ID	96
Segment number	500
Location	Valley Creek Park
Description	Street - Pier access restriction
Guide marking	None
Latitude	48° 7'17.93"N
Longitude	123°26'2.63"W

Field1

Field2



ID 97

Segment number 500

Location Marine Drive at Hill Street

Description 1 - 30 x 8 inch concrete

Guide marking None

Latitude 48° 7'44.65"N

Longitude 123°27'48.04"W

Field1



Field2



ID 98

Segment number 507

Location	10th St & Milwaukee Drive
Description	1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides
Guide marking	Diamond & guide lines
Latitude	48° 7'50.98"N
Longitude	123°29'21.12"W

Field1



Field2



ID	99
Segment number	507
Location	14th St - East
Description	1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides
Guide marking	Diamond & guide lines
Latitude	48° 7'45.61"N
Longitude	123°29'47.21"W

Field1



Field2



ID	100
Segment number	508
Location	14th St - West
Description	1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides
Guide marking	Diamond & guide lines
Latitude	48° 7'45.29"N
Longitude	123°29'48.38"W

Field1



Field2



ID	101
Segment number	508
Location	Milwaukee Dr.
Description	1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides
Guide marking	Diamond & guide lines
Latitude	48° 7'43.21"N
Longitude	123°29'58.67"W

Field1



Field2



ID	102
Segment number	509

Location	18th St (Trailhead)
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Description	1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides
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Guide marking	Diamond & guide lines
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Latitude	48° 7'39.38"N
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Longitude	123°30'17.66"W
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Field1	
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Field2	
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ID	103
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Segment number	509
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Location	Dry Creek Bridge - East
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Description	1 - 30 x 2.5 inch pipe fold down, Bridge sides
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Guide marking	Diamond & guide lines
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Latitude	48° 7'25.48"N
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Longitude	123°31'21.51"W
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Field1



Field2



ID 104

Segment number 509

Location Dry Creek Bridge - West

Description 1 - 30 x 2.5 inch pipe fold down, Bridge sides

Guide marking Diamond & guide lines

Latitude 48° 7'24.78"N

Longitude 123°31'24.53"W

Field1



Field2



ID 105

Segment number 509

Location Lower Elwha Rd at Kacee Way

Description 1 - 30 x 2.5 inch pipe fold down, 30 x 4 inch wood sides

Guide marking Diamond & guide lines

Latitude 48° 7'23.78"N

Longitude 123°31'31.73"W

Field1



Field2



ID 106

Segment number 510

Location	Kacee Way
Description	1 - 42 x 2.5 inch pipe fold down, ecology block sides
Guide marking	Diamond & guide lines
Latitude	48° 7'33.24"N
Longitude	123°32'17.98"W

Field1



Field2



ID	107
Segment number	511
Location	Elwha bridge - East
Description	2 - 42 x 2.5 inch pipe fold down, fence on north side
Guide marking	None
Latitude	48° 6'50.14"N
Longitude	123°33'6.94"W

Field1



Field2



ID	108
Segment number	511
Location	Elwha bridge - West
Description	2 - 42 x 2.5 inch pipe fold down, Bridge railing sides
Guide marking	None
Latitude	48° 6'50.63"N
Longitude	123°33'16.20"W

Field1



Field2



ID	109
Segment number	511
Location	Elwha River Rd - Gate
Description	Gate with bypass
Guide marking	None
Latitude	48° 6'50.02"N
Longitude	123°33'17.94"W
Field1	

Field2



ID	110
Segment number	630

Location	Onella Rd - East
Description	1 - 42 x 2.5 inch pipe fold down, Ecology block sides
Guide marking	Diamond & guide lines
Latitude	48° 7'29.11"N
Longitude	123°38'4.25"W

Field1



Field2



ID	111
Segment number	630
Location	Onella Rd - West
Description	1 - 42 x 2.5 inch pipe fold down, Ecology block sides
Guide marking	Diamond & guide lines
Latitude	48° 7'29.11"N
Longitude	123°38'44.39"W

Field1



Field2



ID 112

Segment number 670

Location Gossett Rd

Description 1 - 42 x 2.5 inch pipe fold down, rock sides

Guide marking Diamond & guide lines

Latitude 48° 7'55.45"N

Longitude 123°47'11.38"W

Field1



Waterline R.O. Access



Looking
West

1 - 42 x 2.5" pipe fold down, rock sides



Looking
East

1 - 42 x 2.5" pipe fold down, rock sides

Field2



ID 113

Segment number 801

Location Fairholme T - east on way to US101 parking

Description 2 - 42 x 2.5 inch pipe fold down, 1- 30 x 2.5 pipe, tree sides

Guide marking None

Latitude 48° 4'35.28"N

Longitude 123°57'6.60"W

Field1



Field2



ID 114

Segment number 802

Location	Fairholme crest - East
Description	2 - 42 x 2.5 inch pipe fold down, 1 - 48 x 6x6 wood on north side
Guide marking	None
Latitude	48° 4'40.97"N
Longitude	123°57'33.69"W

Field1



Field2



ID	115
Segment number	802
Location	Fairholme crest - West
Description	2 - 42 x 2.5 inch pipe fold down, 1 - 42 x 6 in pipe on south side
Guide marking	None
Latitude	48° 4'40.95"N
Longitude	123°57'36.97"W

Field1



Field2



ID

116

Segment number

802

Location

US101 - East

Description

1 - 42 x 2.5 inch pipe fold down, Ecology block sides

Guide marking

Diamond & guide lines

Latitude

48° 4'29.95"N

Longitude

123°58'9.07"W

Field1



Field2



ID

117

Segment number

803

Location

US101 - West

Description

1 - 42 x 2.5 inch pipe fold down, Rock sides

Guide marking

None

Latitude

48° 4'28.78"N

Longitude

123°58'8.36"W

Field1



Field2



ID

118

Segment number

803

Location	FS2918 - East
Description	1 - 42 x 2.5 inch pipe fold down, Rock sides
Guide marking	None
Latitude	48° 4'10.16"N
Longitude	124° 0'47.75"W

Field1



Field2



ID	119
Segment number	805
Location	FS2918 - West - Gate
Description	Gate with bypass
Guide marking	None
Latitude	48° 3'41.75"N
Longitude	124° 0'16.77"W

Field1



Field2



ID 120

Segment number 806

Location FS065 at start of separated trail

Description 2 - 42 x 2.5 inch pipe fold down, 2 - 60 x 4 pipe sides

Guide marking None

Latitude 48° 3'43.85"N

Longitude 124° 1'0.15"W

Field1



Field2



ID 121

Segment number 806

Location FS070/FS2929

Description Gate with bypass

Guide marking None

Latitude 48° 3'37.48"N

Longitude 124° 4'51.66"W

Field1



Field2



ID 122

Segment number 806

Location	FS070/FS2929
Description	1 - 42 x 2.5 inch pipe fold down, Rock north side
Guide marking	Diamond & guide lines
Latitude	48° 3'37.17"N
Longitude	124° 4'58.45"W

Field1



Field2



ID	123
Segment number	806
Location	FS2929 - East
Description	1 - 42 x 2.5 inch pipe fold down, Rock sides
Guide marking	Diamond & guide lines
Latitude	48° 3'37.96"N
Longitude	124° 6'17.16"W

Field1



Field2



ID 124

Segment number 806

Location FS2929 - West

Description 1 - 42 x 2.5 inch pipe fold down, Rock sides

Guide marking Diamond & guide lines

Latitude 48° 3'38.32"N

Longitude 124° 6'18.07"W

Field1



Field2



ID 125

Segment number 806

Location Cooper Ranch Rd

Description 1 - 42 x 2.5 inch pipe fold down, Rock sides

Guide marking Diamond & guide lines

Latitude 48° 3'38.56"N

Longitude 124° 6'32.16"W

Field1



Field2

