

Cedar Creek Falls Overlook

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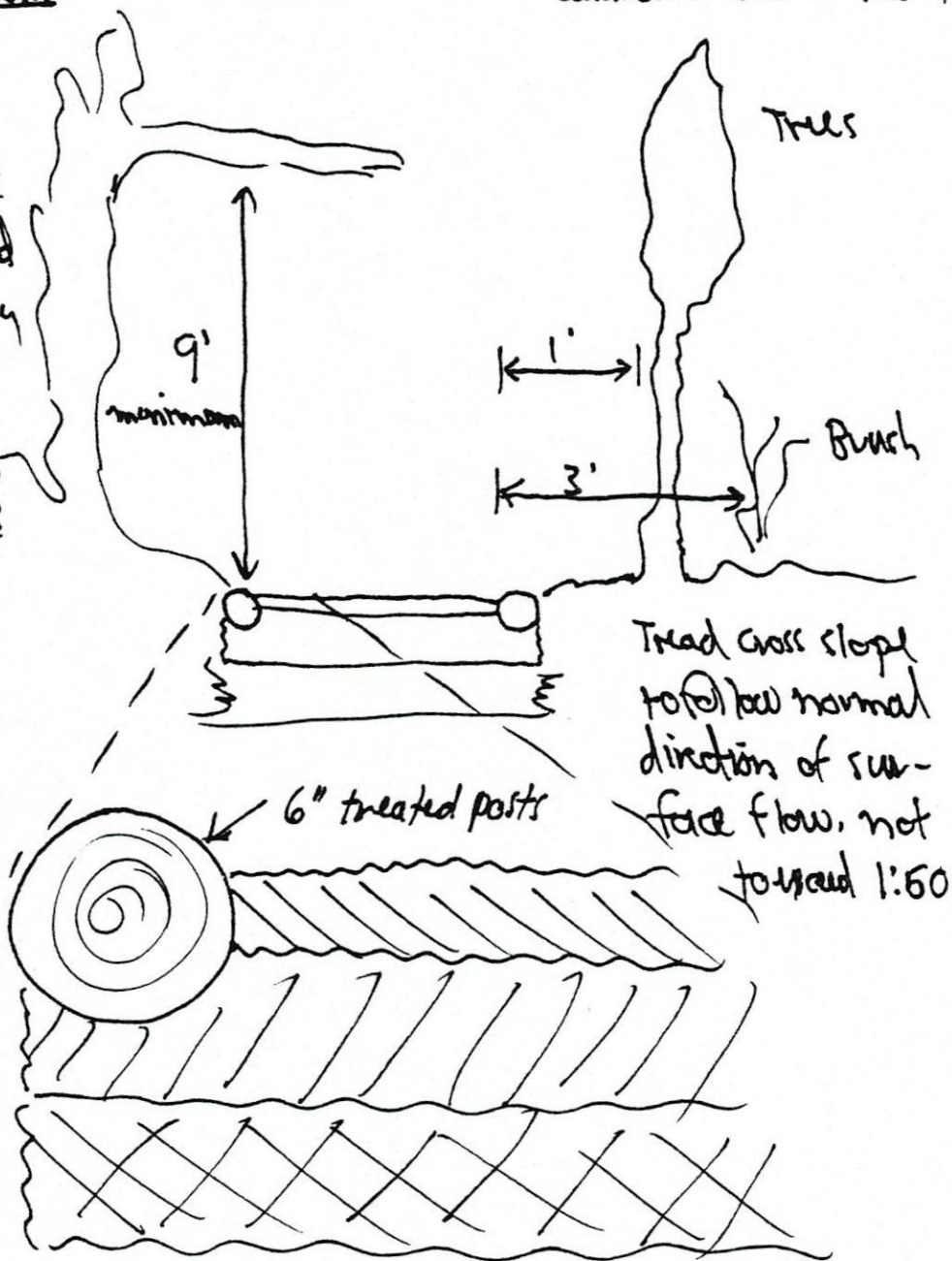
Typical Tread Treatment

Adon Creek Falls Overlook 1

Notes:

- * All crushed rock to be quarry crushed and mixed with Portland Cement 2-3% by weight, compacted 95%
- + All native material to be compacted 95%

Pre-emergent Ronstar to be applied as per manufacturer's standard. Do not use soil sterilant due to proximity to forest and stream!



Grade Note:

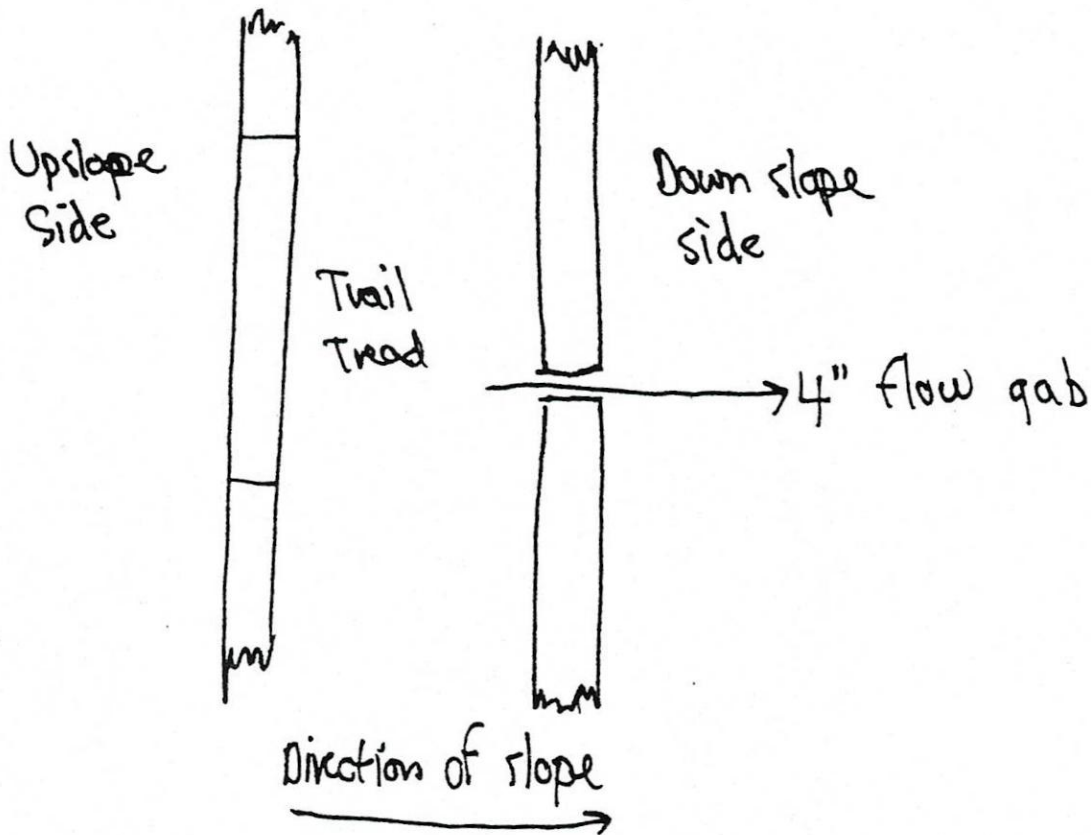
Grade not to exceed 1:20 (5%) most to be 1:40-50 (3-2%)


- + 2-3" $\frac{3}{8}$ " - quarry crushed *
- 3-4" $\frac{3}{4}$ " - quarry crushed *
- native subgrade soil

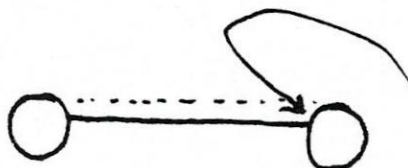
Curb Note:

Curb to be of 6" treated poles, drill and spike with $\frac{3}{8}$ " rebar 2' long where needed if unsecured on outside edge with native material. Drill $\frac{1}{4}$ " hole, treat, rebar to be coated.

Tread Treatment Curb

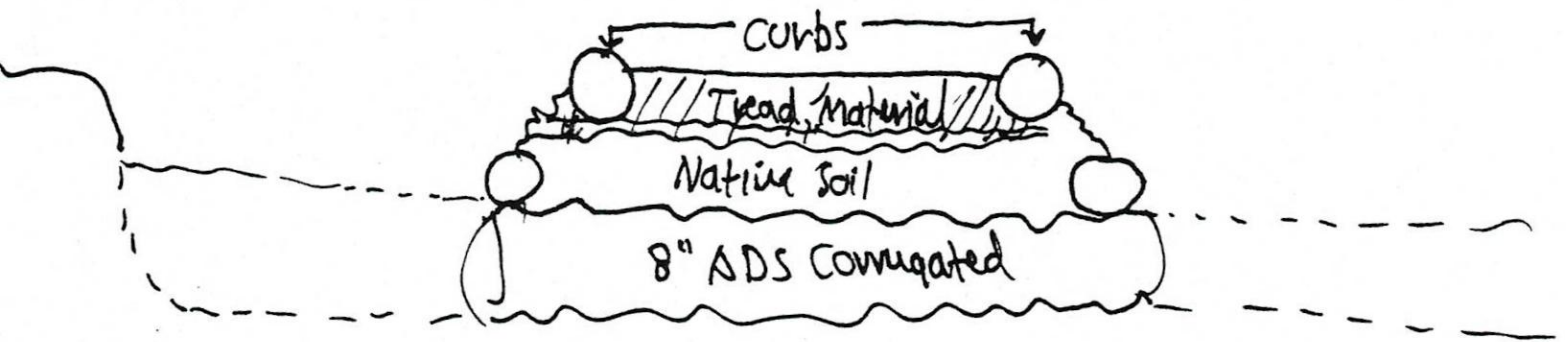


 Tread slope not to exceed 1:50

 Exposed curb height at least 2"

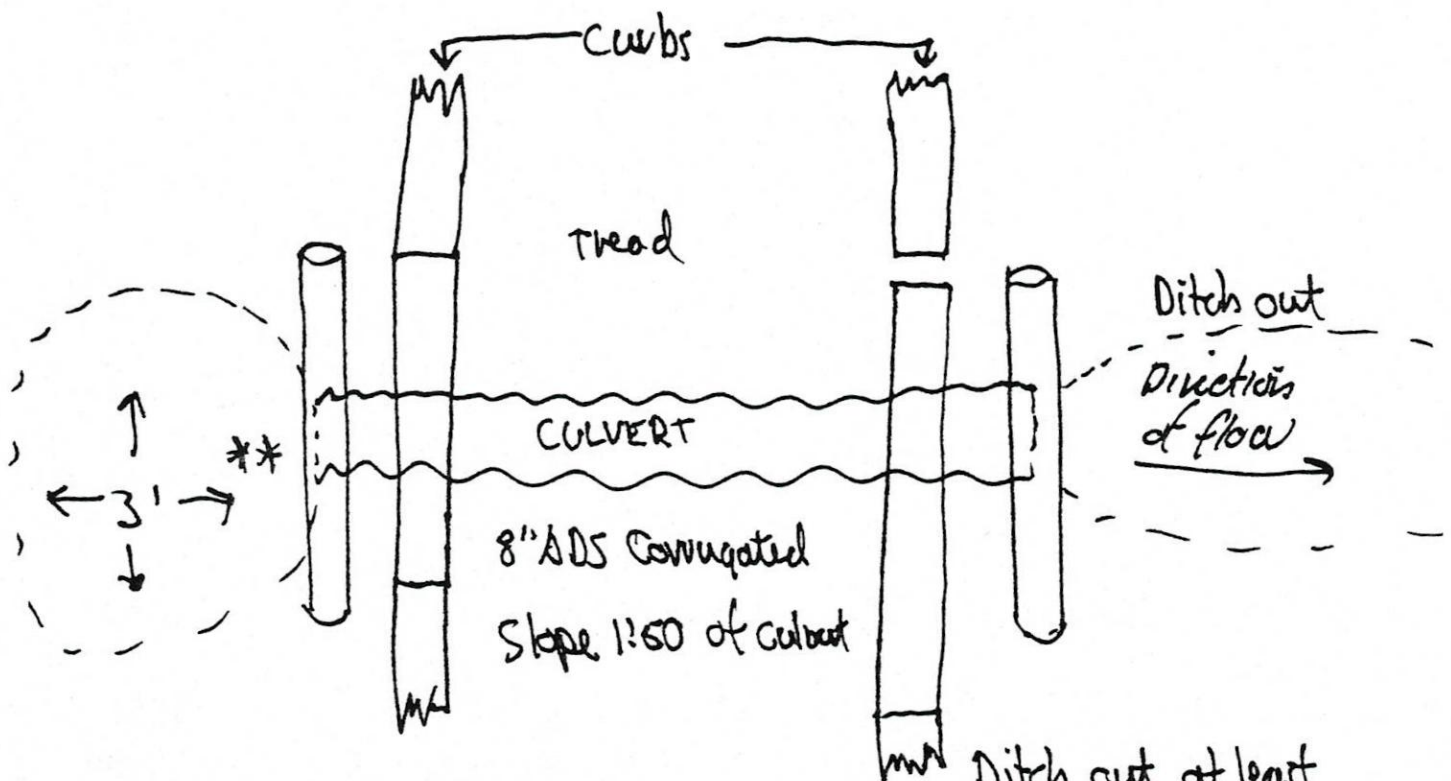
Culvert Treatment

Cedar Creek Falls Overlook #3



Catch basin
3' diameter

Direction of flow \longrightarrow
Slope 1:50 of culvert



++ Culvert Note

* Retainer log note

Retainer logs to be 6' in length.
Both ends ^{of logs} to be concealed with
native rock, soil and vegetation.

Ditch out at least
8' or until
hitting normal
drainage area.

Ditch out to be
16" wide terracing

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Culvert Treatment: (Cont)

- ** All culvert ends to be concealed by either native stones or ground contact poitr.
- + Frequency of culverts to be determined following tread preparation but prior to 3/8" dressing.
- ++ Culvert material to be 8" ADS corrugated polyethylene.

All culverts to be provided with a 3' minimum catch basin no deeper than culvert.

Culvert to be buried 8" below tread surface.

Culvert run off to be extended at least 10' from end of culvert if normal drainage not available.

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Vegetation Treatment and the User:

Decayed logs: Disturbing most down old growth logs can be avoided when necessary. Disturbed decayed material should be spread near the site.

Brush: Brush is to be cut and disposed of 15' off trails edge. Where possible debris should be taken to site of relocated trail to be used in concealing old trail.

Green Trees: Several small alders need to be removed. If the stump is to be removed leave tree to assist in the removal of the stump. Alders to the diameter of 4"-3" should be cut to 16" lengths, stacked 4' off the trail. 4"-3" material and smaller to be treated as brush.

Blow Downs: Several large douglas fir blow downs are to be found at the site. These should be removed 4' on either side at counterline of trail. Material removed should be at 16" lengths and stacked 4' off the trail.

Cut Wood: Where possible cut wood should be delivered to the covered picnic area. This could be accomplished when crushed rock is hauled to the site. Cut wood could be carried back with equipment used to carry crushed rock to the site.

Grasses, Forbes, Weedy Stemmed Plants and Roots: The top 6" of native material is to be removed. Where possible this material can be delivered to the site of the abandoned trail to be used in the revegetative process. Excess material should be spread at least 15' from the edge of the trail. It should be spread in a manner that is not overly visible to the user and away from any flowing water.

The User: Cutting of all vegetation and its removal or disposal on site must be done with the user in mind. Intrusive material 9' up and one foot out is to be removed. Salmon berry bushes for 3' on either side should be root cut out. The retention of as near an undisturbed appearance as possible for the user is important. Interpretive signing will occur at the site of the cedar grove. The blow downs will provide the opportunities to interpret wind in the building soil. The old growth, decayed logs will further be utilized in an interpretive approach with this trail.

Cedar Creek Falls Overlook

Interpretive Opportunities: Interpretive signing opportunities can be shown by describing five potential sites.

Old Decayed Down Logs: These date back to the Yacolt burn era. The Yacolt burn and role of down vegetation in the forest can be featured.

Blow Downs: The role of wind in the forest.

Cedar Grove and Wet Areas: The role of water, and moisture to the western red cedar. The role the western red cedar played in the culture of the Native American, the early settlers, and to modern man.

The Red Alder: Its role in the forest as seen along the trail.

Cedar Creek Falls: The role of water in the forest and the relationship of a viable forest, to a healthy stream and aquatic life.



PATHWAY GUIDELINES

7

Pathway Surface Types

ACCESSIBLE 1	USEABLE 2	DIFFICULT 3
<p>The following list describes a few of the surfacing materials that can be used for pathways and other outdoor activity areas. The list is limited to a few materials that can be used effectively at different Levels of Accessibility. Other possibilities should be considered if appropriate to local conditions and needs.</p> <p>Some materials have broad application, while others may not be suitable for all Levels of Accessibility.</p>		

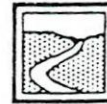
Crushed Stone

<p>Crushed stone can form an accessible surface if it is correctly designed and constructed.</p> <ul style="list-style-type: none"> • Sub-grade cleaned and cleared to a depth of 6 inches below finished grade, compacted to 95% density. The use of a soil sterilant is recommended. • 4 inch base course, 3/4 inch crushed stone, compacted to 95% density. A binder of 2-3% Portland cement with water and gravel may be used. • 2 inch surfacing course of crusher fines, rolled and compacted to 95% density. Cement binder recommended. • Maintenance is essential to insure a consistent surface.

Curbs and Railings

<p>Provide 2" high curb at the edge of paths that slope at the side. Provide a 42" high railings at hazardous pathway edges.</p>	<p>Provide 2" curb and 42" railing at difficult and dangerous locations.</p>	<p>Provide curbing at difficult and dangerous locations.</p>
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PATHWAY ILLUSTRATIONS

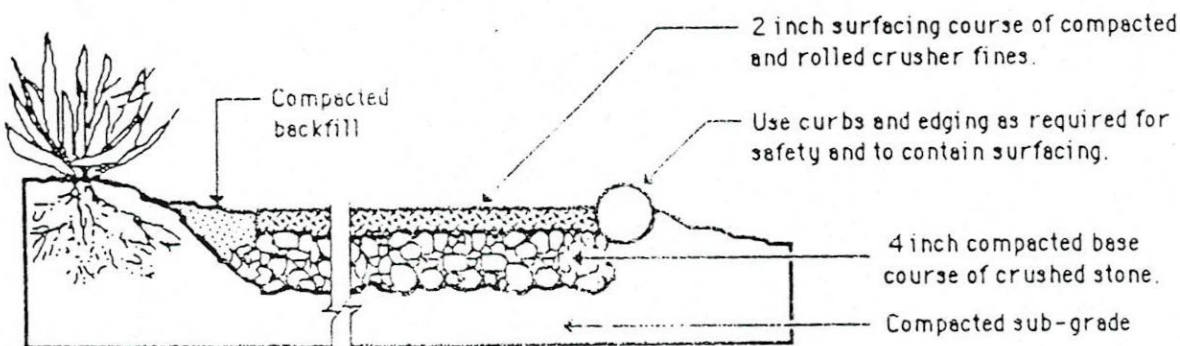


Level 1

Surfacing Material	Level of Accessibility		
	1	2	3
Concrete	■	■	■
Pavers on Conc.	■	■	■
Asphalt	■	■	■
Crushed Stone	■	■	■
Wood Decking	■	■	■
Soil Cement	■	■	■
Wood Chips		■	■
Untreated Soil		■	■
Grass		■	■
Packed Gravel			■

- Materials which are appropriate for a given Level of Accessibility.
- Materials which may be used for a given Level of Accessibility if designed and constructed properly.

PATHWAY SURFACING MATERIALS



CRUSHED STONE

Cedar Creek Falls Trail Overlook Materials

9

4x12 *	100 per 10'	
	8 per 8'	
	16 per 16'	
	150' multiples of 5	3536
6"x6"x8'	14 pcs	\$225
	144' multiples of 3'	
48	12x12 piers	\$480
48 Simpson post anchors **		\$480
3/8" x 10	130 bolts	120
3/8" x 4	300 lag bolts	80
3/8" x 1	550 washers	14
3/8"	130 nuts	7
	200 strap/angle brackets	200
4x8'	482' multiples of 8'	800
4x4x 500'	no length specified	370
2x4x64'		
1100	spikes	140
60	bags of Portland cement	\$375
72-1/2"x10"	hexhead bolts	95
72-1/2"	nuts	8
144-1/2"	washers	14
80' x 8"	ADS flex culvert material 10x10 lengths	\$124
2000'x6"	treated poles	\$1,687
3/8" -	quarry crushed 70 yds.	
1 3/4"	quarry crushed 110	2430 -
3 loads	300-500 pound rock boulders	607 -
300'	#4 coated rebar (1/2")	\$51.00
50	bags concrete mix	165.00
5 gal	wood preservative	<u>N/C</u>
	Sub Total	11,808
	Tax	<u>897</u>
	TOTAL	12,705
	5% Contingency	<u>635</u>
	GRAND TOTAL	13,330
	Equipment rental donated	1,600
500 hours planning development @ \$10/hour		5,000
10 hours @ \$60/hour drawing		600
2000 hours construction @ 10/hour		<u>20,000</u>
		40,530

* All dimension lumber to be ground contact

** All metal to be coated or galvanized

Cedar Creek Falls Overlook and Walkway

Description:

The Cedar Creek Falls Overlook and 1000ft+ walkway as proposed is adjacent to the existing Cold Creek Campground within the Yacolt Burn State forest, managed by the Washington Department of Natural Resources. It is designed to provide a barrier free access to Cedar Creek Falls. It will provide an "in the forest" experience for a group of people who generally are excluded due to some form of physical limitation. This pathway will provide access to a proposed footbridge across Cedar Creek as part of an access to the proposed Columbia River Rim Top Loop Trail, the Chinook Trail. Cedar Creek Falls is slightly more than an hour/s drive from the Vancouver-Portland Metropolitan area

Objectives and Needs:

Primary objectives of the Cedar Creek overlook and walkway project are:

1. To provide the physically challenged with a barrier free forest and streamside experience.
2. To provide the physically challenged with a safely constructed recreational facility meeting the federal standards for barrier free access.
- 3 To upgrade the Cold Creek Campground and picnic area to accommodate the physically challenged.
4. To reconstruct a short section (300 ft) of equestrian trail adjacent to the Cedar Creek walkway in order to avoid conflict and meet federal guidelines regarding separation of users.
5. To provide interpretive possibilities regarding Native Americans, streams, wetlands and the forest.
6. To bring together a diverse group of citizens, agencies, community service organizations and non-profit groups to construct the Cedar Creek Falls project
7. To provide adequate parking to accommodate the physically challenged..
8. To provide an up to date barrier free vault toilet.

Physical Features:

The proposed overlook and walkway trail head will originate within the existing WDNR Cold Creek Campground and Day Picnic area.

The existing Campground and picnic facility located at the proposed Cedar Creek Falls walkway and overlook trail head consist of the following:

1. A covered picnic area.
- 2 Two stringer bridges, one for horse access, the other for foot access to the covered picnic area and the proposed Cedar Creek Falls Overlook.
3. Several established fire ring areas.
4. Picnic tables mounted on concrete pads.
5. A potable water source in the form of a hand pitcher pump.
6. Two old vault-type toilets.
7. Stream access to Cold Creek.

The proposed Cedar Falls Overlook/ Walkway is located north and east seventeen (17) miles from the Camas-Washougal area, twenty five (25) miles from Vancouver and thirty (30) miles from the Portland Metropolitan area. It is accessible from the west and north via asphalt county roads feeding into WDNR road numbers L 1400, L 1000, and L 1300. Access from the south is via asphalt county roads from Hiway 14 to WDNR road #1000, L 1500, or W1200. The west and north approaches require travel on approximately three to six miles of well maintained gravel roads and from the south on approximately six to nine miles of well maintained gravel roads, all in WDNR ownership. Distances vary according to route selected. County roads have direct access to State Highway 14 and Interstate highways 5 and 205.

Appropriate directional and interpretive signing will occur as dictated by Federal guidelines, the onsite situation and the requirements of the users.

The walkway will be constructed of compacted crushed material with curbs and where appropriate, elevated to maintain proper gradients and to span existing wet areas in accordance with wetland requirements.

Social Features:

The need for the Cedar Creek Falls Overlook and walkway is apparent when we examine the limited numbers of in the primitive forest walkways accessible to the physically challenged in Clark County. There are presently only three. Sunset Falls under control of the USFS provides a 300 foot pathway to view Sunset Falls. Moulton Falls and Lewisville Park under control of Clark County Parks and Recreation have facilities for the handicapped. All of these have deficiencies in design when compared with existing federal guidelines for barrier free access.

The Chinook Trail Association discovered Cedar Creek Falls in June of '90 while scouting a route to connect Moulton Falls and Cold Creek Campground. Members of that organization in concert with Vancouver Audubon Society, Sierra Club (Loowit group) the Ptarmigans (local hiking, climbing club) the Mazamas, Clark County Track Club, Kiwanis International, the Coalition of Handicapped Organizations (COHO) and Clark Public Utilities have spent over 1000 hours surveying and studying the best possible route for this trail. Additional work includes conducting a facility assessment of existing improvements, obtaining detailed drawings of the walkway and overlook, developing material lists, applying for grants, securing donations, examining materials and material alternatives, meeting to determine responsibility at time of construction, conducting surveys to determine efficient construction alternatives, developing displays about the project, scheduling work parties, applying for the necessary WDNR permits, writing letters, meeting with local Washington State Legislators and making presentations to local groups including the Clark County Board of Commissioners and the Clark County Parks and Recreation Commission.

The Chinook Trail Association is the organization coordinating the volunteer labor and efforts. The CTA has secured and continues to secure donated materials, dollars talent and labor. The CTA proposes and works toward the realization of the proposed Columbia River loop trail, the Chinook Trail, Vancouver Lake to Maryhill State Park, Biggs to Portland.

Financial needs:

To date the planning effort has been performed by the Chinook Trail Association and the Washington Department of Natural Resource personnel. Actual construction of the walkway and overlook will be done by volunteers assembled by the Chinook Trail Association.

Financial assistance is needed to assist with the following items:

1. Ballast and crushed rock to expand the parking area, provide for walkways and footings for elevated walkway
2. Purchase of equipment rental or reimbursement for equipment to put in parking. Load and haul crushed rock
3. Culvert material for parking and walkway
4. Purchase a barrier free vault toilet
5. Provide materials to protect pump from vehicle damage.
- 6 Provide vehicle barriers
7. Treated 6" posts for trail curbs
8. Elevated walkway and overlook materials including beams, decking, hardware, pier blocks, cement and cement mix

Results and Benefits:

Completion of the Cedar Creek Falls Overlook project will:

1. Provide the Physically Challenged with a 1000ft+ barrier free trail/ walkway and overlook in a streamside, forested setting.
2. Provide a first stage 1000ft connector of the Chinook Trail.
3. Upgrade an existing camp/ picnic facility to accommodate the physically challenged.
4. Provide a facility for another group of users which should assist in reducing vandalism due to increased legitimate users.
5. Further separate equestrian use from the campground/ picnic area.

Plan of Action:

The Cedar Creek Falls walkway and overlook project will be divided into two work phases. These can occur at the same time.

- I. The Chinook Trail Association with the previously mentioned affiliates will construct the walkway and overlook following this work plan;
 - a. Cut and remove unneeded vegetation
 - b. Prepare tread, walkway supports and pier block site
 - c. Compact native soil, spread trail ballast, deposit mudsill base and install piers
 - d. Install elevated walkway and overlook
 - e. Install curbs, lay final tread mixed and compacted
2. The Washington Department of Natural Resources will;
 - a. Remove trees and stumps to provide for expanded parking
 - b. Install needed ballast
 - c. Install barrier free vault toilet
 - d. Upgrade in camp picnic table pads to be barrier free
 - e. Install vehicle barriers
 - f. Surface roads and existing walkways with crushed rock as needed.

Public Participation:

The Chinook Trail Association has contacted and secured the services and support of a wide variety of organizations and agencies. In addition they have received over three thousand dollars from SWIFT (Southwest Washington Independent Forward Thrust) to assist with this project. It is estimated over 1000 hours have gone into the planning and an additional 2000 hours will be contributed to construct this facility.

Members from the following have helped plan or will help construct the Cedar Creek Falls Walkway and Overlook.

The Chinook Trail Association

The Ptarmigans

The Vancouver Audubon Society

Clark County Track Club

Clark Public Utilities employee group

Sierra Club, Loowit group

Pacific Northwest District Kiwanis International

Summary:

Construction of the Cedar Creek Falls Walkway and Overlook will make it possible for a special segment of our society to have a near wilderness type of experience.