CLARK COUNTY STAFF REPORT

DEPARTMENT/DIVISION:	Department of Public Works / Transportation Program			
DATE:	December 16, 2014			
REQUEST:	Acknowledge the Section 4(f) de minimis use of public park and recreation area for construction of Big Tree Creek Bridge #120, CRP 330022.			
CHECK ONE:		Hearing	☐ Chief Administrative Officer	
PUBLIC WORKS GOALS: ☑ Provide safe and efficient transportation systems within Clark County ☑ Continue responsible stewardship of public funds ☐ Promote family-wage job creation and economic development to support a thriving community ☑ Maintain a desirable quality of life ☑ Improve environmental stewardship and protection of natural resources ☐ Increase partnerships and foster an engaged, informed community ☐ Make Public Works a great place to work				
Big Tree Creek Bridge #120 the bridge abutments will req owned and maintained by Cla for access roads and erosion	on NE Lucia Falls Ro ruire permanently imp ark County. The proje n/sediment control me	ad. The installation of acting 864 sq. feet of the ct will also temporarily asures. All temporarily	perform preventative maintenance on bank stabilization for the protection of the Moulton Falls Regional Park, impact 1770 sq. feet of park property by disturbed areas will be reseeded or idered a public recreational facility and	
Section 4(f) of the U.S. Department of Transportation Act of 1966 requires all potential impacts on Section 4(f) lands to be analyzed for prudent alternatives prior to implementation of a project. Bank stabilization measures associated with the Big Tree Creek Bridge #120 project are considered a de minimis use. Section 4(f) of the Transportation Act requires that de minimis use of resource lands be approved following a formal opportunity for public comment.				
<u>COMMUNITY OUTREACH</u> : All adjacent property owners have been notified by mail and/or direct communication about the project. A public notification and comment period was provided through the SEPA process. A public comment period for the required County Shoreline Permit will end on January 5 th , 2015.				
Big Tree Creek Bridge #120	project was approved t the time of contract	l as part of the 2014-20 solicitation. A letter of s	ns will result from this approval. The 19 TIP. Construction will also have to support from the Clark County Parks	
FISCAL IMPACTS:	Yes (see Fiscal I	mpacts Attachment)	⊠ No	
ACTION REQUESTED: By a property for the Big Tree Cre			dge the de minimis use of public park	

Moh

* 7 1 7 8 9 8 *

DISTRIBUTION: Please return an originally signed duplicate of the approved staff report to the Department of Public Works - Transportation Programming, attention Michael Derleth.

William Wright, P.E.

Transportation Programming Manager

Public Works Director/County Engineer

CLARK COUNTY, WASHINGTON

BOARD OF COMMISSIONERS

BW/HH/MD

Attachments: Section 4f De Minimis 4(f) Exemption Determination, Parks Division Support Letter, 4(f) Figures

c: Lisa Hemesath, Environmental Services Jean Singer, Project Manager Heath Henderson, Public Works Michael Derleth, Public Works

Section 4(f) De Minimis Impact Determination (per 23 CFR 774)

Date:	December 2, 2014
Lead Agency:	Clark County
Project Number:	BHS-A068(004)
Project:	Big Tree Creek Bridge #120
Project Description:	The Clark County Department of Public Works is proposing a seismic retrofit and installation of scour repair at Big Tree Creek Bridge #120 on NE Lucia Falls Road, Clark County, Washington. The Big Tree Creek Bridge ranks #6 on the Clark County's 2012 Seismic Vulnerability Screening Assessment/Evaluation. The Bridge also ranked as a #2 priority on Clark County's 2007 Scour Critical Bridge Review. The project is located on NE Lucia Falls Road less than ¼ mile west of the Sunset Falls Road intersection in Clark County, WA. T4N R3E Section 13 NW ¼. See Figure 1.
	Falls Road. This location services the Moulton Falls Regional Park which consists of several miles of trails, picnic areas and fishing spots. The detour route is 14 miles long and there would be no other way to access the park if the bridge had to be closed for high flows or seismic damage. The roadway bridge abutments also support a pedestrian bridge that is part of Moulton Falls Regional Park's trail system (Figure 2).
	The seismic retrofit will consist of structural reinforcements of existing bridge structures. Proposed structural reinforcements will include steel seat extensions, transverse restraints, and pier wall strengthening. The center pier wall will be strengthened by widening the existing wall with concrete and steel reinforcement.
	The proposed scour repair includes installation of a riprap revetment, installation of a new gabion wall, and extension of an existing wing wall. The new gabion wall will be constructed adjacent to the upstream wing wall of the west abutment and will be 9 feet long. The existing upstream east abutment wing wall will be extended by 10 feet eastward. Riprap revetment overlain with native streambed material will be installed around the center pier, abutments, wing walls and gabion wall for scour protection.
	Impacts to riparian habitat along Big Tree Creek and the E. Fork Lewis River will be mitigated on-site by planting native shrubs and herbaceous plants in areas temporarily disturbed by construction activity.
	Scour repairs at the bridge abutments on the northwest and northeast corners of the bridge will require approximately 864 sq. feet of permanent impacts to Moulton Falls Regional Park (Figure 3). The project will require an additional 1770 sq. feet of temporary impact for the installation of erosion control measures and the

	construction of three short access roads (Figure 4) for heavy equipment access to the northeast, northwest, and southwest bridge abutments. Temporarily disturbed areas will be replanted with native shrubs and herbaceous vegetation (Figure 5). Temporary and permanent uses, as described above, of a publicly-owned recreational area are subject to the requirements of Section 4(f) of the Department of Transportation Act of 1966.
Section 4(f) Resource	Moulton Falls Regional Park
Type of 4(f) Resource	 Public Park or Recreational Area □ National Register-Eligible Historic Site □ Publicly-owned Wildlife or Waterfowl Sanctuary
Size of the de minimis use of the 4(f) Resource in acres	The project will permanently impact 0.02 acres (864 sq. feet) of a 387-acre park.
Official With Jurisdiction	Clark County Parks Division of Public Works

De minimis Documentation

1. Describe the Section 4(f) property and the attributes and features that qualify it for Section 4(f) protection, attach a map with shows the boundary of the resource, the locations of key features (e.g. ball fields, structures) and shows the area to be used;

The project is located on NE Lucia Falls Road less than ¼ mile west of the Sunset Falls Road intersection in Clark County, WA. T4N R3E Section 13 NW ¼. See Figure 1. NE Lucia Falls Road bisects the county-owned Moulton Falls Regional Park. This 387-acre park, at the confluence of the East Fork of the Lewis River and Big Tree Creek, features two waterfalls and an arch bridge more than three stories high crossing the E. Fork Lewis River. The park is heavily forested. Facilities at the park include a parking lot, picnic tables, a barbeque grill, trails, pedestrian bridges, and a restroom (Figure 6). The area is also a popular swimming spot.

2. Describe the impacts to the Section 4(f) property, and any avoidance, minimization and mitigation or enhancement measures, and why they are considered de minimis as defined in 23 CFR 774.17;

Clark County plans to install a riprap revetment and a new gabion wall, and extend an existing wing wall in order to protect Big Creek Tree Bridge from on-going scour that could further undermine the bridge abutments and center pier. To provide sufficient protection, these scour protection measures need to extend on to Moulton Falls Regional Park. Area of permanent impact is approximately 864 sq. feet. The impacted area would still be accessible to park users after construction.

Access to three corners of the bridge abutments will require the construction of temporary access roads. Installation of the access roads and erosion control measures will require the removal of about 1770 sq. feet of understory vegetation consisting of native shrubs and herbaceous vegetation on park property. The access roads and erosion control measures will be removed and the site returned to pre-existing conditions, using native plant species, after work is completed. There are no anticipated permanent adverse physical impacts associated with the construction and removal of the access road and erosion control measures. The amount of temporary disturbance is a fraction of the 387-acre park. Use of the park by the public will not be interrupted during or after construction, nor will the proposed project change the purpose of the park or its recreational amenities. Scour repair on the northwest abutment and center pier, may cause temporary closure of a trailhead (Figure 7); however, the trail will still be accessible at an alternate trailhead located further east on NE Lucia Falls Road. Closure of the trailhead will be in short duration and will be less than the time needed for construction of the entire project.

Clark County has avoided impacts to the Section 4(f) resource and the riparian habitat of Big Tree Creek and the E. Fork Lewis River by minimizing ground disturbance. All permanent and temporary impacts are adjacent to the current road right-of-way. Permanent impacts are the minimal necessary to repair scour adjacent to the bridge abutments and center pier. These impacts only extend at a maximum of 40 feet into the park from the road right-of-way. Access roads were designed to avoid tree removal and keep within the road right-of-way as much as feasible. Temporary impacts resulting from the construction of access roads and installation of erosion control measures, measuring approximatley 1770 sq. feet, will be mitigated by replanting with native shrubs and herbaceous vegetation. Replanting will help maintain a healthy understory and quickly restore the natural scenery as viewed from the bridge and nearby trails. Mitigation on a Section 4(f) property is considered a non-transportation use if the official who has jursidiction over the property agrees that the proposed work is consistent with the function of that property and is an enhancement of the 4(f) resource.

3. For parks, recreational facilities, and wildlife and waterfowl sanctuaries:

a. Describe the Public Outreach that has been or is being conducted (leave blank for historic sites);

All adjacent property owners have been notified by mail and/or direct communication about the project. Public notification and comment periods were provided through the SEPA and Clark County Shoreline permit processes. In addition, the County has provided the public the opportunity to comment on the proposed use of the Moulton Falls Regional Park for the repair of Big Tree Creek Bridge #120 by placing this item on the Board of County Commissioner's Consent Agenda on 12/16/2014.

b. Include written concurrence of the official with jurisdiction over to 4(f) resource with the de minimis determination.;

The Moulton Falls Regional Park is managed by the Clark County Parks Division of Public Works. Clark County Public Works, the department lead on the bridge project, has been coordinating with the Parks Division on this project. The Parks Division concurred with the de minimis take on 10/28/2014 (see attached letter). The county will continue to coordinate with the Parks Division during bridge repairs and

replanting. Clark County Public Works will be responsible for planting, maintaining and monitoring the riparian plantings.

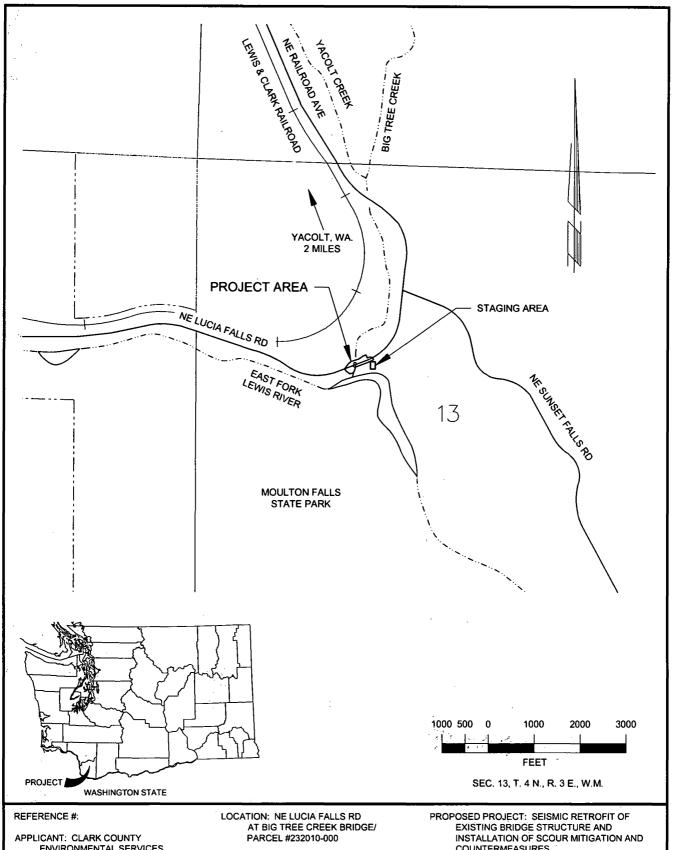
4. For historic resources, attach Section 106 Documentation (Include SHPO concurrence in project-level findings (DOEs and or FOEs) and Programmatic Agreement Memos for archaeological resources); and

No historic resources will be impacted by this project. SHPO concurred with the finding on 1/22/2014.

Request for Approval

Based upon this analysis we request FHWA approval that the use of the Section 4(f) resource described above is *de minimis* as defined in 23 CFR 774.17.

Melanie Vance, Environmental Engineer	Date
WSDOT Local Programs	
FHWA Approval	
Liana Liu, P.E, Area Engineer	Date
FHWA Washington Division	



ENVIRONMENTAL SERVICES

ADJACENT PROPERTY OWNERS: 1. CLARK COUNTY / PARCEL #232010-000 2. CLARK COUNTY / PARCEL #232019-000 LAT / LONG: 45.831944 N / -122.387222 W

PAGE 1 OF 4 DATE: JULY 31, 2014 COUNTERMEASURES.

IN: BIG TREE CREEK AT CONFLUENCE WITH EAST FORK LEWIS RIVER NEAR: YACOLT, WA

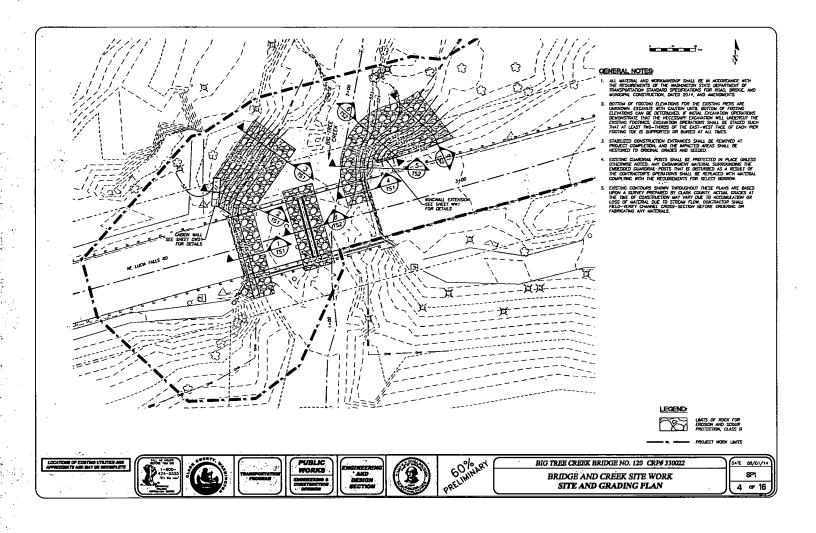
COUNTY: CLARK STATE: WASHINGTON

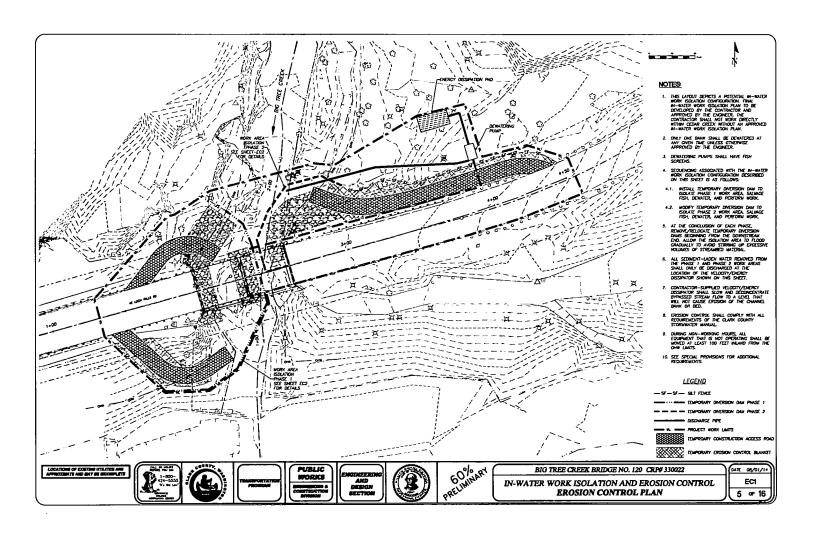
FIG. 1

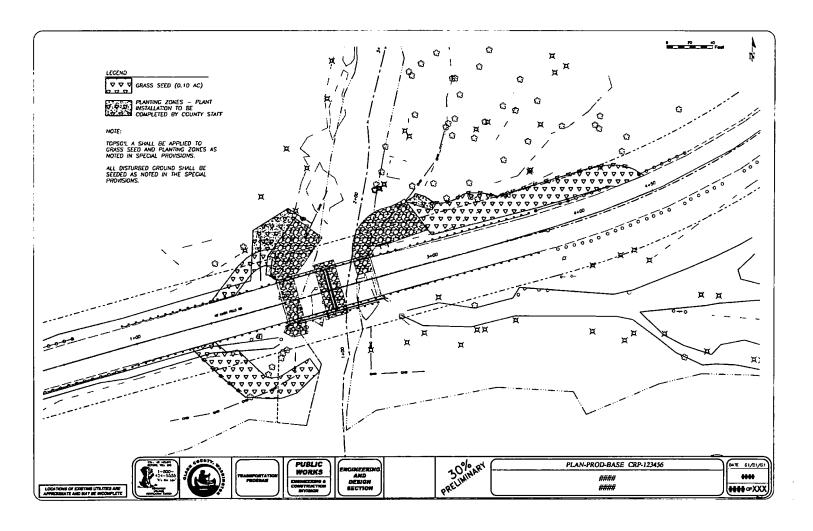
Figure 2. Big Tree Creek Bridge: Roadway and Pedestrian Crossing*



*Pedestrian bridge is part of the Moulton Falls Regional Park Trail system







Lucia Falls and Moulton Falls Trails

27781 LUCIA FALLS ROAD, YACOLT

EAST FORK LEWIS RIVER

Moulton Falls and Lucia Falls Parks together encompass 325 acres of older-growth forest, three separate waterfalls and miles of shared use and primitive trail. Other points of interest include volcanic rock formations from early lava flows, a beautiful arch bridge over three stories high. Swimming is not allowed at Lucia Falls, in order to protect sensitive fish habitat. A 2.5-mile, barrier-free trail runs from the Hantwick Road trailhead to Moulton Falls Park. The primitive, 9-mile Bells Mountain Trail also begins here, and will eventually link southward to the Rock Creek Campground and the Tarbell and Larch Mountain Trails.

SHARED TRAIL ŧIŧ RESTROOM ᄍ PICNIC TABLES

CENTER

FACILITIES Picnicking, toilets, swimming, fishing, riewpoints.

DIRECTIONS By car: 5 miles northeast of Battle Ground on Lucia Falls Road

By bus: No bus service within one mile Parking fees were eliminated in 2013.

HOURS 7 a.m. to dusk

MODERATE

DIFFICULT

NE CC Landon Rd Ħ Hantwick Rd. Trailhead _ 1/8 Mile to Lucia Falls from Hantwick Road Moulton Falls Lucia Falls Park 7 Miles to Cold Creek 1 Mile Loop Campground



1 INCH = 1/2 MILE

Lucia Falls and Moulton Falls Trails



27781 LUCIA FALLS ROAD, YACOLT

Moulton Falls and Lucia Falls Parks together encompass 325 acres of older-growth forest, three separate waterfalls and miles of shared use and primitive trail. Other points of interest include volcanic rock formations from early lava flows, a beautiful arch bridge over three stories high. Swimming is not allowed at Lucia Falls, in order to protect sensitive fish habitat. A 2.5-mile, barrier-free trail runs from the Hantwick Road trailhead to Moulton Falls Park. The primitive, 9-mile Bells Mountain Trail also begins here, and will eventually link southward to the Rock Creek Campground and the Tarbell and Larch Mountain Trails.

ŧŧ Ŧ PICNIC TABLES

1 INCH = 1/2 MILE

CAMAS/ WASHONGA

CENTER

FACILITIES Picnicking, toilets, swimming, fishing, viewpoints

DIRECTIONS By car: 5 miles northeast of Battle Ground on Lucia Falls Road

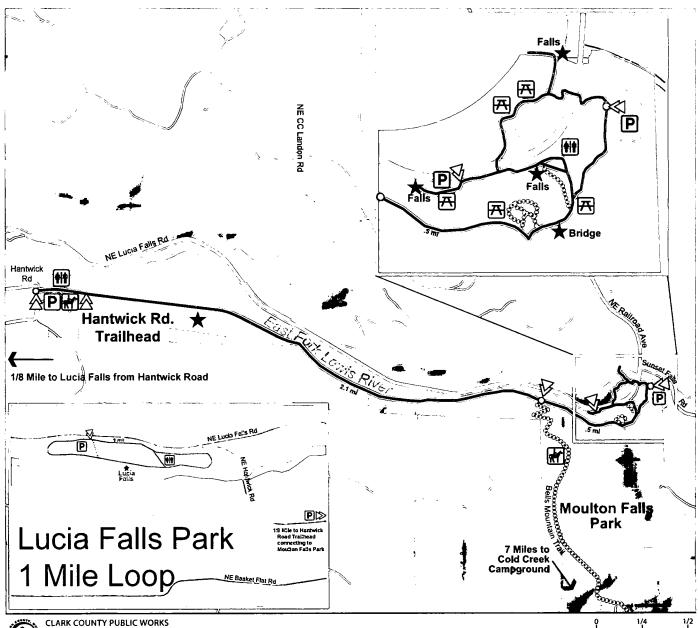
By bus: No bus service within one mile Parking fees were eliminated in 2013.

7 a.m. to dusk

HOURS

MODERATE

D:FFICULT



PARKS DIVISION

www.clark.wa.gov/parks



proud past, promising future

October 28, 2014

Heath Henderson Director Clark County Public Works P.O. Box 9810 Vancouver, WA 98666-9810

RE: Moulton Falls Regional Park and Clark County's Big Tree Creek Bridge #120 Repair Project

The Clark County Department of Public Works is proposing a seismic retrofit and installation of scour protection at Big Tree Creek Bridge on NE Lucia Falls Road. This project will impact the 387-acre Moulton Falls Regional Park. The impacts include 864 sq. feet of permanent impact and 1770 sq. feet of temporary impact. All land temporarily disturbed will be reseeded or replanted with native species.

The permanent impacts are due to the placement of bank stabilization necessary for the protection of bridge abutments. The bank stabilization will be placed immediately adjacent to the existing bridge where scour is occurring. Due to the minor amount of park land impacted and the added benefit of preventing further bank erosion, the proposed 4(f) use is de minimis in nature and will not adversely affect the features, attributes or activities qualifying the Moulton Falls Regional Park for protection under Section 4(f).

The proposed temporary impacts are a minor impact in nature and magnitude to the Moulton Falls Regional Park. Because Clark County Public Works has agreed to restore the temporary impact area to pre-existing conditions, the County does not anticipate permanent adverse physical impacts to the park. In addition, the temporary impacts to trail access will not interfere with the activities or purpose of the park as access will still be provided at an alternative trailhead.

The proposed mitigation, replanting temporarily disturbed areas, is a non-transportation use of Moulton Falls Regional Park. The mitigation is consistent with the function of the existing park and considered an enhancement to fish and wildlife resources on the site. The Clark County Parks Division plans to protect and encourage the survival of the riparian plantings.

In conclusion, the proposed Big Tree Creek Bridge #120 repair project will have **no adverse effect to activities, features or attributes to the Moulton Falls Regional Park,** and thus will have a **de minimis impact to this Section 4(f) resource**.

Sincerely,

Bill Bjerke Manager

Clark County Parks Division of Public Works