

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT

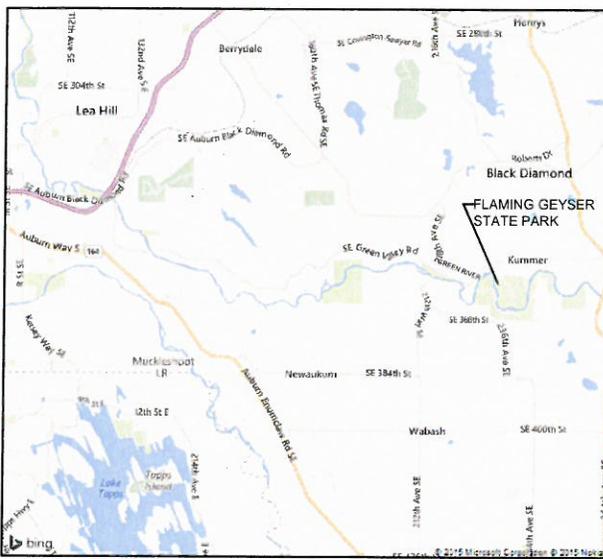


**WASHINGTON STATE**

N.T.S.

## VICINITY MAP

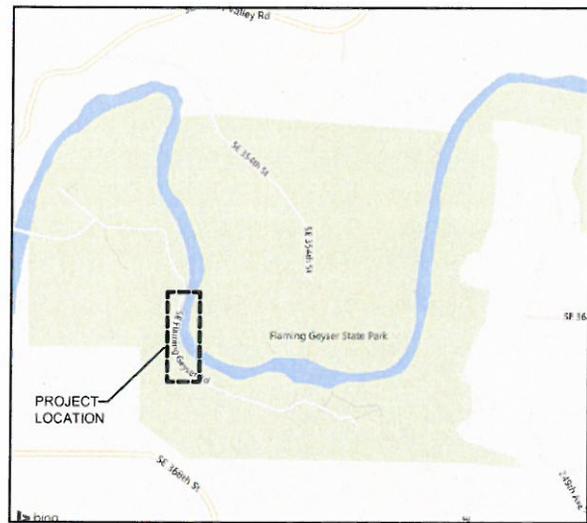
NORTH



Lat: 47.274839 / Long: -122.03057

## PROJECT LOCATION

NORTH



23700 S.E. Flaming Geyser Road, Auburn, Wa. 98092  
Section 27 Township 21N Range 6E  
King County TAX PARCEL NUMBER 2721069005  
WRIA 9

**NOTE:**

As part of the Flaming Geyser State Park - Beaver Creek Realignment project, the proposal will fill an existing man made 125 lf channel that connects to the Green River that is fed by an existing pond. A failing culvert at the head of the filled channel will also be abandoned in place. New channel grading is being proposed to the north that connects the existing pond, a secondary smaller pond and also an existing relic channel of the Green River. A 30' span bridge will be installed at the park entrance road crossing near the terminus of the new channel adjacent to the Green River.

**SITE DIRECTIONS:**

From Highway 18 in Auburn take Green Valley RD east for 8 miles. Turn right onto SE Flaming Geyser RD for 0.4 miles, then turn right to stay on SE Flaming Geyser RD for 0.3 miles to site.

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE NOTE THIS SHEET	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: SEE SHEET 2	WATER BODY: UNNAMED
	DATE: JANUARY 2016

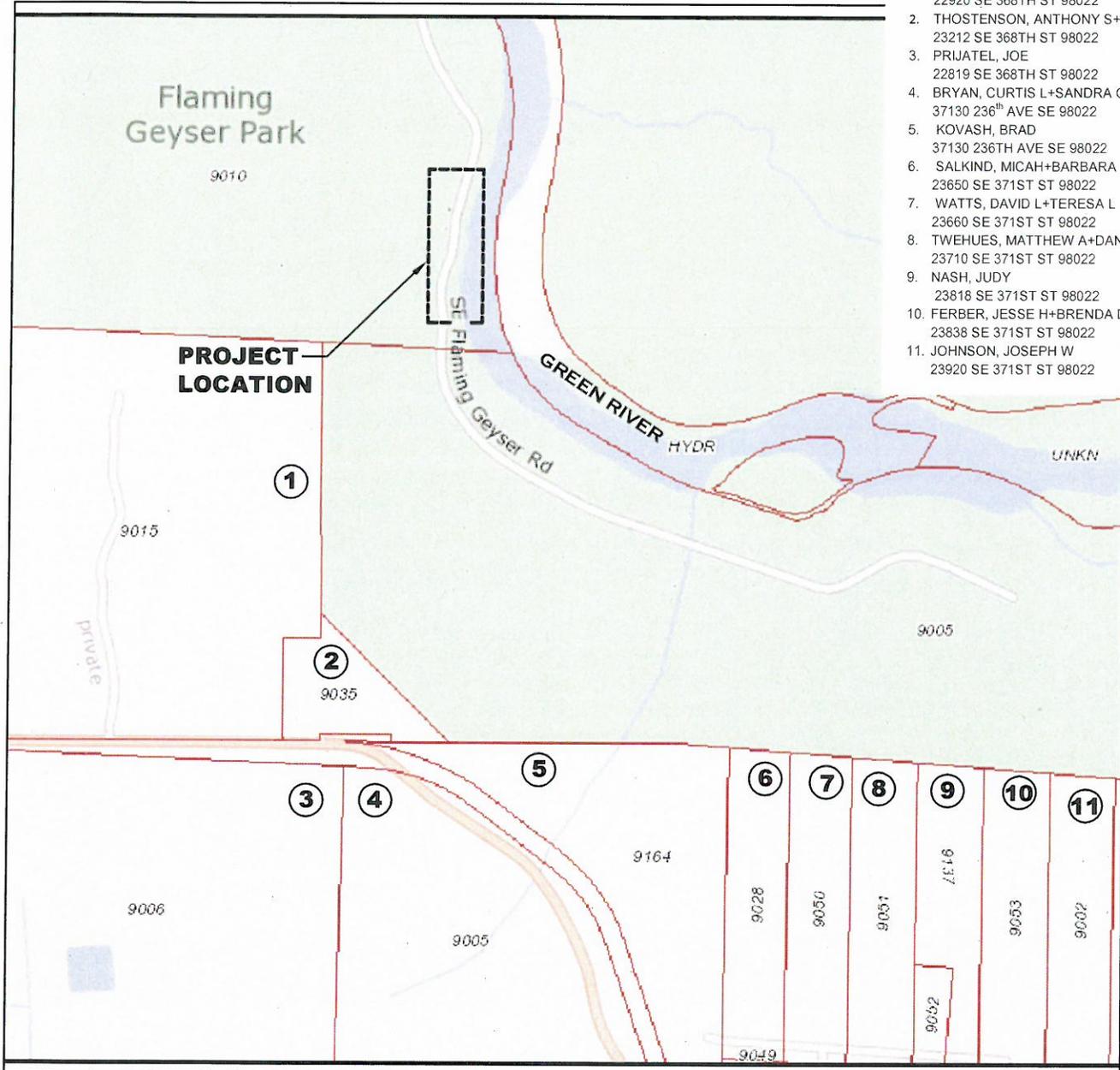


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**FISH and  
WILDLIFE**

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~ADJACENT PROPERTY OWNERS~



1. NELSON, KEN  
22920 SE 368TH ST 98022
2. THOSTENSON, ANTHONY S+LAURA  
23212 SE 368TH ST 98022
3. PRIJATEL, JOE  
22819 SE 368TH ST 98022
4. BRYAN, CURTIS L+SANDRA G  
37130 236<sup>th</sup> AVE SE 98022
5. KOVASH, BRAD  
37130 236TH AVE SE 98022
6. SALKIND, MICAH+BARBARA  
23650 SE 371ST ST 98022
7. WATTS, DAVID L+TERESA L  
23660 SE 371ST ST 98022
8. TWEHUES, MATTHEW A+DANA  
23710 SE 371ST ST 98022
9. NASH, JUDY  
23818 SE 371ST ST 98022
10. FERBER, JESSE H+BRENDA D  
23838 SE 371ST ST 98022
11. JOHNSON, JOSEPH W  
23920 SE 371ST ST 98022



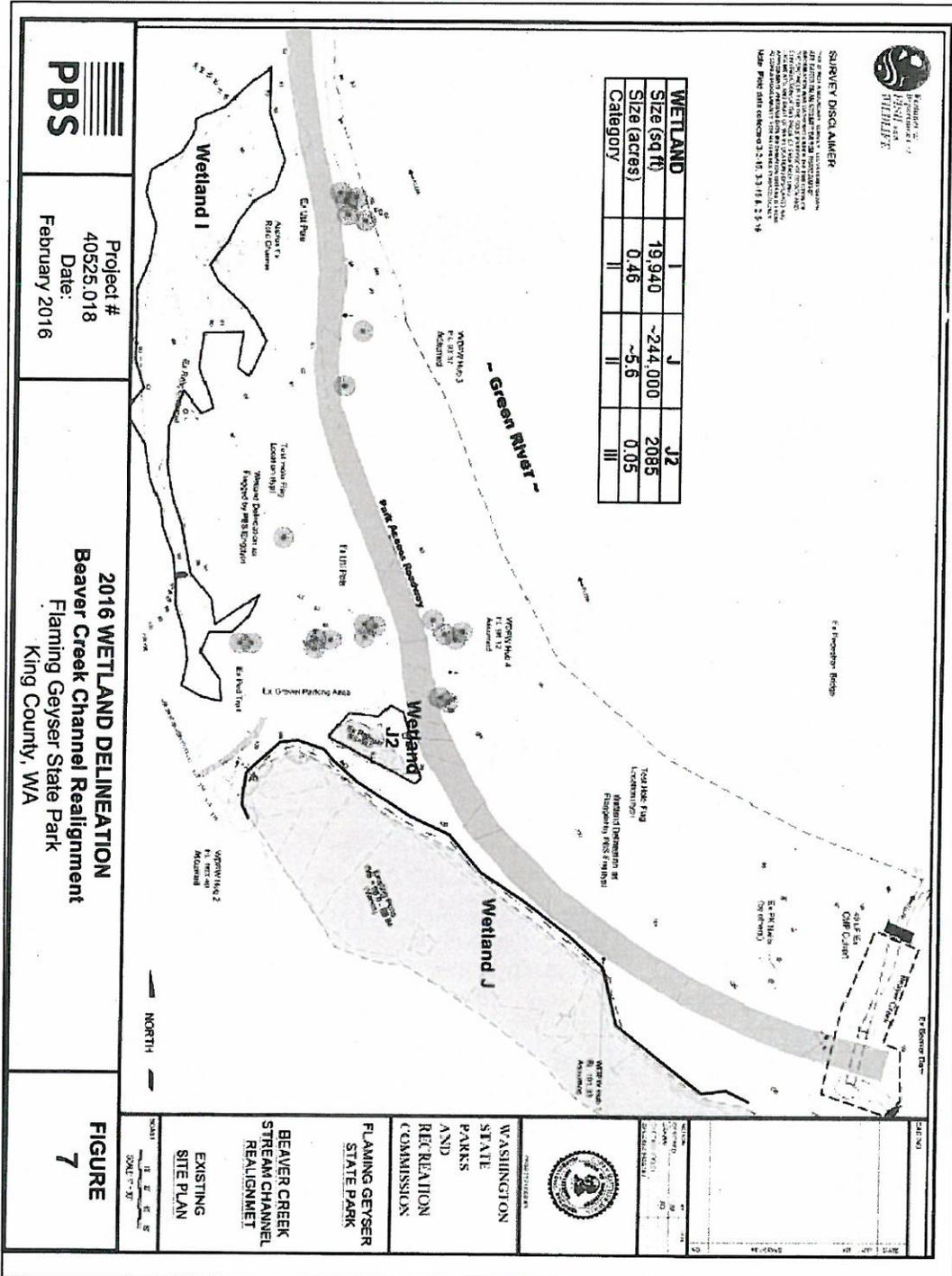
Scale: 1" = 600'

\*SEE TABLE THIS SHEET FOR ADJACENT PROPERTY OWNER LIST

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: THIS SHEET	WATER BODY: UNNAMED
	DATE: JANUARY 2016



# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~WETLANDS~

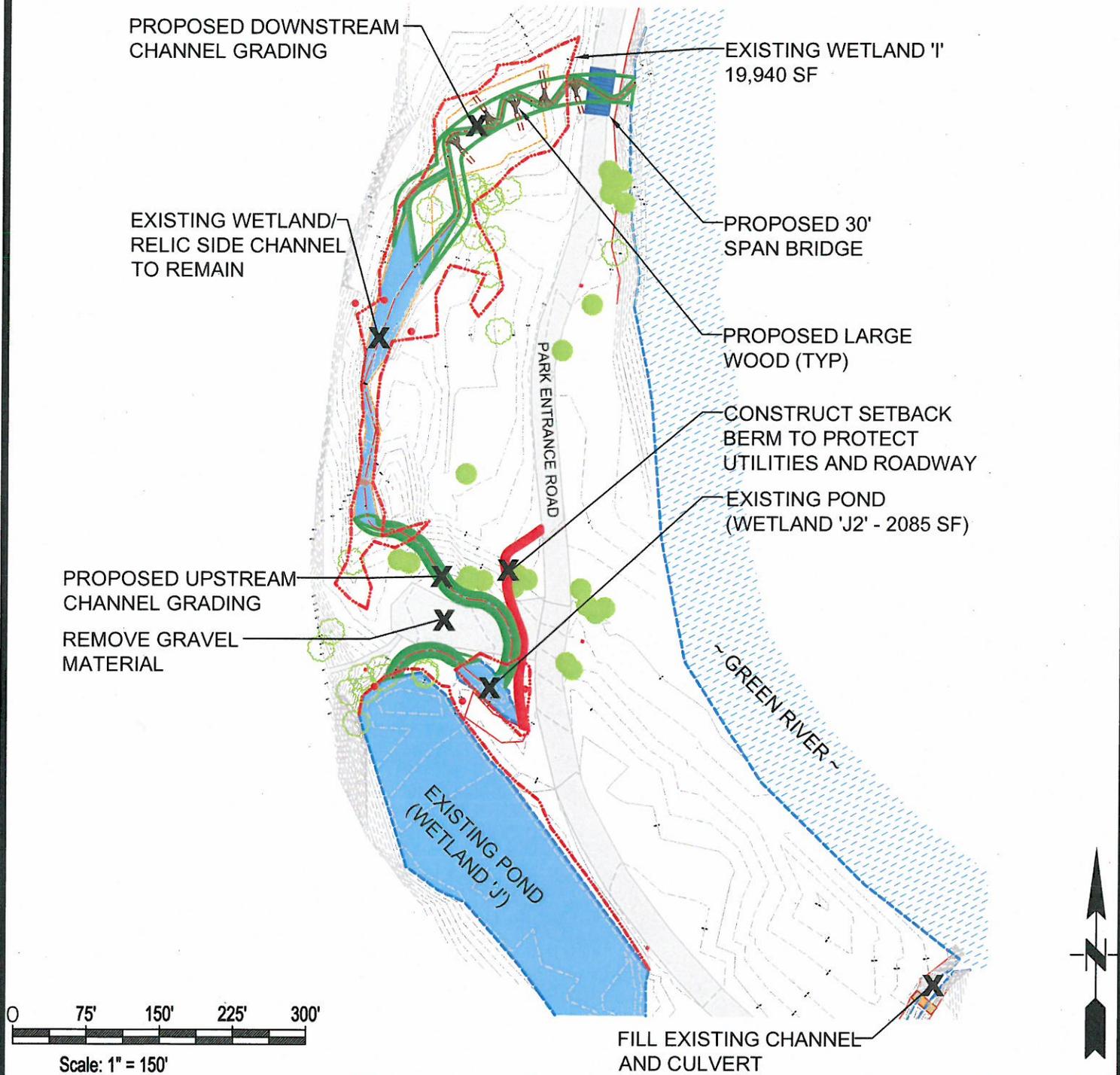


PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: SEE SHEET 2	WATER BODY: UNNAMED
	DATE: JANUARY 2016

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SHEET 3 of 12

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~DESIGN PROPOSAL OVERVIEW~



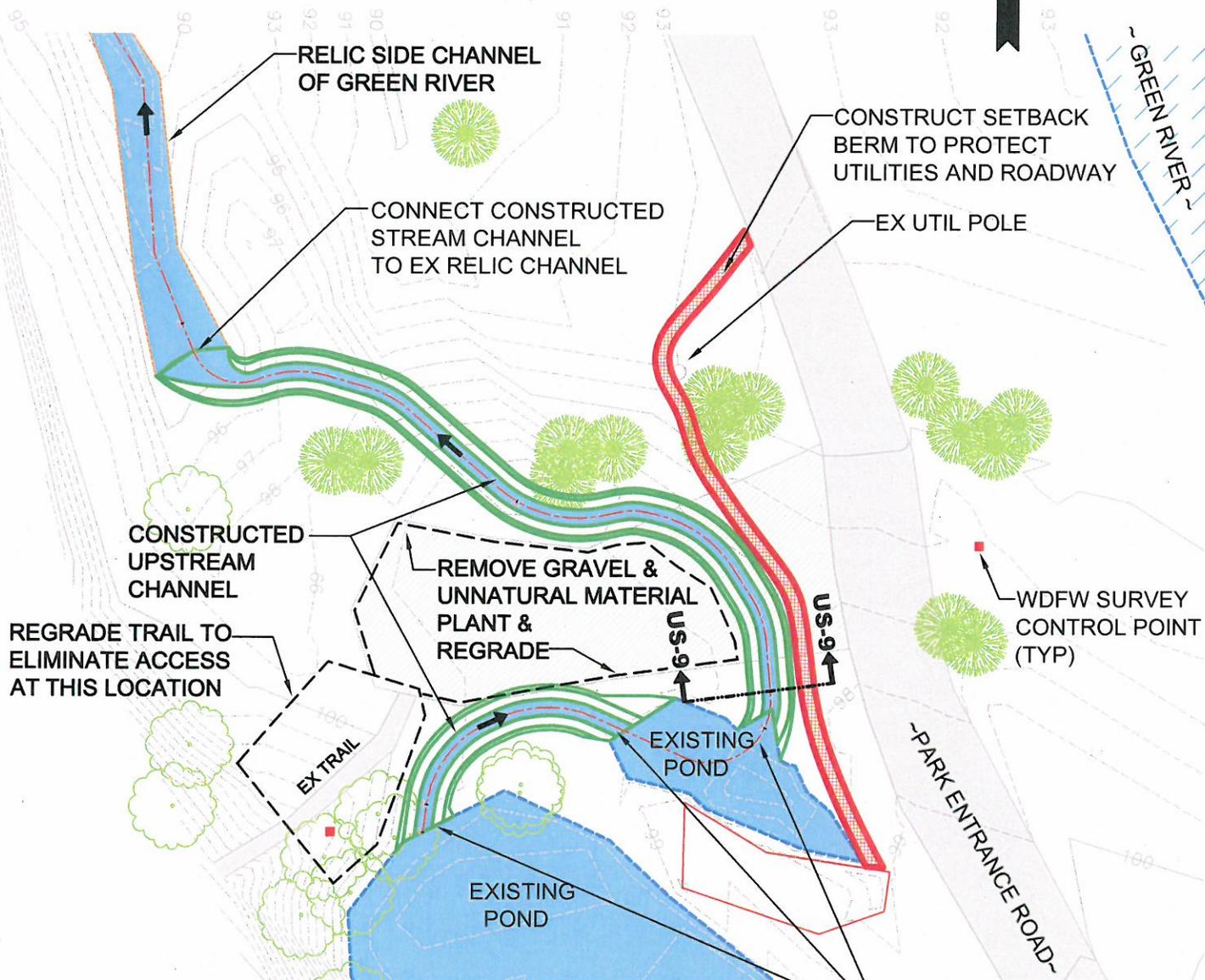
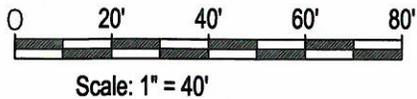
PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: SEE SHEET 2	WATER BODY: UNNAMED
	DATE: JANUARY 2016



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SHEET 4 of 12

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~UPSTREAM SITE PLAN~



**\*NOTES:**

1. SEE PROFILE SHEET 6.
2. SEE CROSS SECTION AND SUBSTRATE DETAILS OF CONSTRUCTED CHANNEL ON SHEET 9.

CONNECT CONSTRUCTED STREAM CHANNEL TO EX POND

PURPOSE: RESTORE STREAM CHANNEL

REFERENCE NO:

PROPOSAL: SEE SHEET 1

APPLICANT: WDFW

LOCATION: SE FLAMING GEYSER ROAD

COUNTY: KING

DATUM: ASSUMED

NEAR: BLACK DIAMOND

ADJ PROPERTY OWNERS: SEE SHEET 2

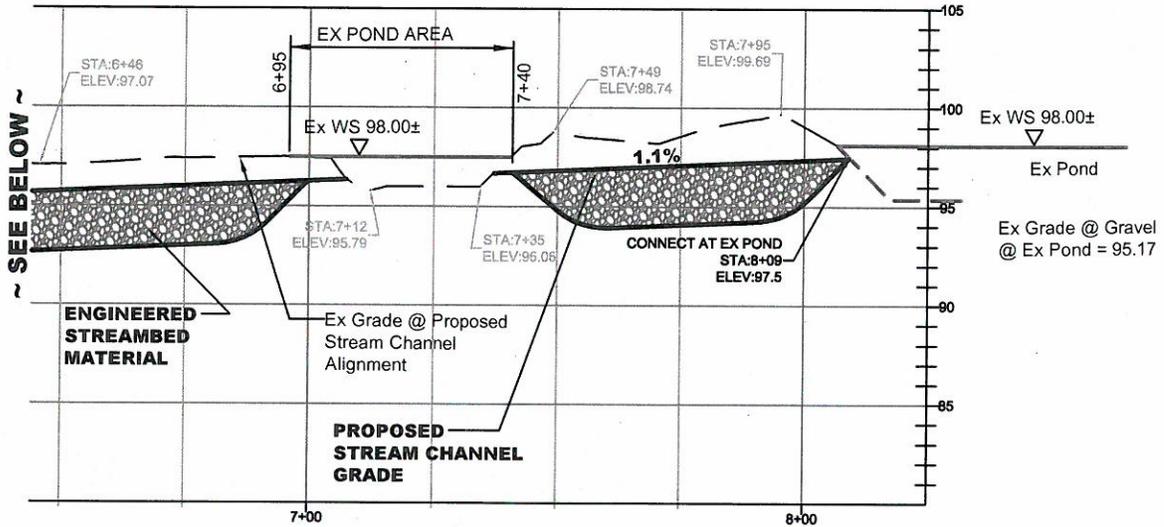
WATER BODY: UNNAMED

DATE: JANUARY 2016



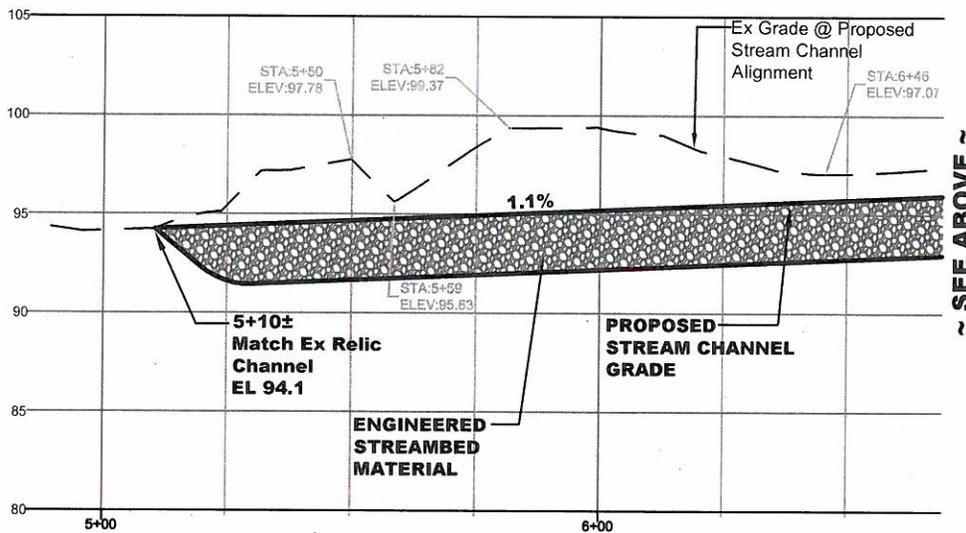
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# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~UPSTREAM CHANNEL PROFILE~



**Stream Channel Profile**

Scale: Horiz 1" = 40' / Vert 1" = 10'



**Stream Channel Profile**

Scale: Horiz 1" = 40' / Vert 1" = 10'

\* ENGINEER TO DIRECT FINAL  
PROFILE OF NEW STREAM  
CHANNEL VARIATION IN  
THE FIELD.

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: THIS SHEET	WATER BODY: UNNAMED
	DATE: JANUARY 2016



# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~DOWNSTREAM SITE PLAN~



**\*NOTES:**

1. SEE PROFILE SHEET 8.
2. SEE SUBSTRATE NOTES OF CONSTRUCTED CHANNEL ON SHEET 9.

CONSTRUCTED DOWNSTREAM CHANNEL

BALLAST ANCHORED LARGE WOOD HABITAT FEATURE (TYP)

EX UTIL POLE

INVASIVE PLANT MANAGEMENT AREA

~PARK ENTRANCE ROAD~

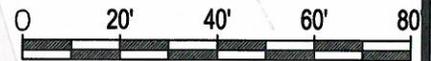
CONNECT CONSTRUCTED STREAM CHANNEL TO EX RELIC CHANNEL

30' SPAN MODULAR BRIDGE BY OTHERS

CONNECT CONSTRUCTED CHANNEL TO GREEN RIVER BANK

~GREEN RIVER~

WDFW SURVEY CONTROL POINT (TYP)



Scale: 1" = 40'

PURPOSE: RESTORE STREAM CHANNEL

REFERENCE NO:

PROPOSAL: SEE SHEET 1

APPLICANT: WDFW

LOCATION: SE FLAMING GEYSER ROAD

COUNTY: KING

DATUM: ASSUMED

NEAR: BLACK DIAMOND

ADJ PROPERTY OWNERS: THIS SHEET

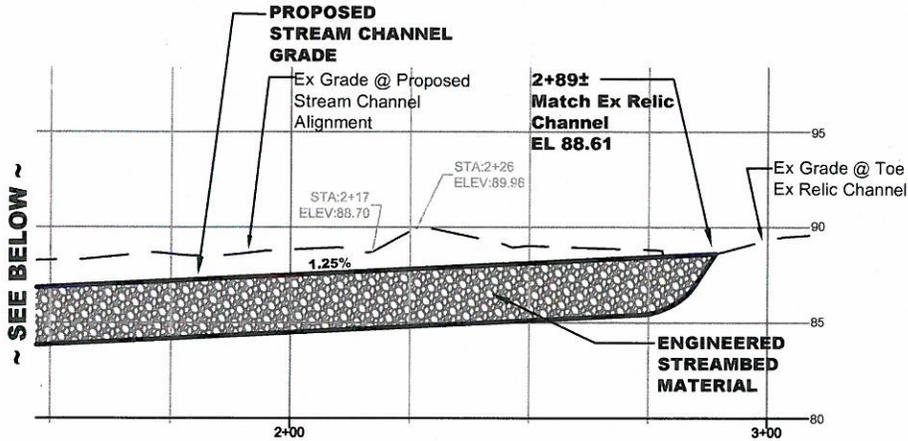
WATER BODY: UNNAMED

DATE: JANUARY 2016



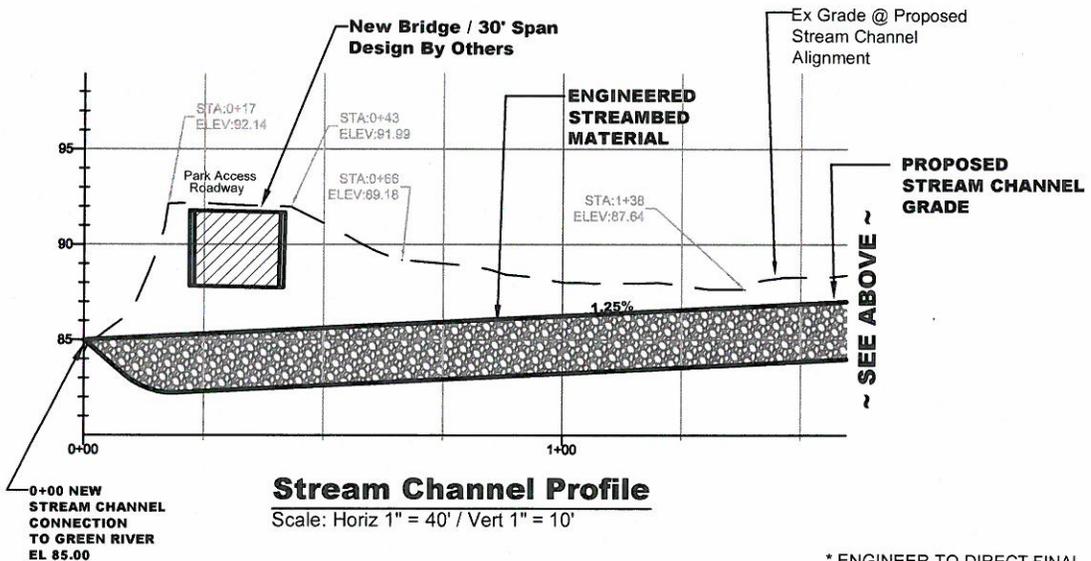
Washington Department of  
**FISH and WILDLIFE**

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~DOWNSTREAM CHANNEL PROFILE~



**Stream Channel Profile**

Scale: Horiz 1" = 40' / Vert 1" = 10'



**Stream Channel Profile**

Scale: Horiz 1" = 40' / Vert 1" = 10'

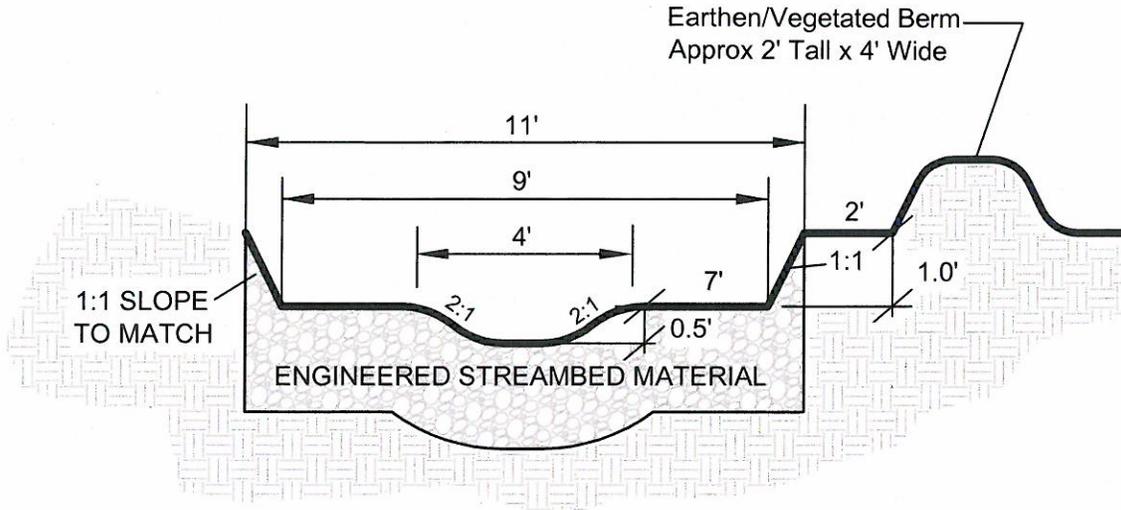
\* ENGINEER TO DIRECT FINAL PROFILE OF NEW STREAM CHANNEL VARIATION IN THE FIELD.

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: THIS SHEET	WATER BODY: UNNAMED
	DATE: JANUARY 2016

Washington  
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SHEET 8 of 12

**FLAMING GEYSER STATE PARK  
BEAVER CREEK  
CHANNEL REALIGNMENT  
~UPSTREAM CHANNEL SECTION~**



**Upstream Channel Section US-9**

Not to Scale

STA 5+08 to 8+07±

\*STREAMBED MATERIAL GRADATION  
PER W.S.D.O.T. STD SPECIFICATION  
FOR ROAD, BRIDGE AND MUNICIPAL  
CONSTRUCTION SECTION 9.03

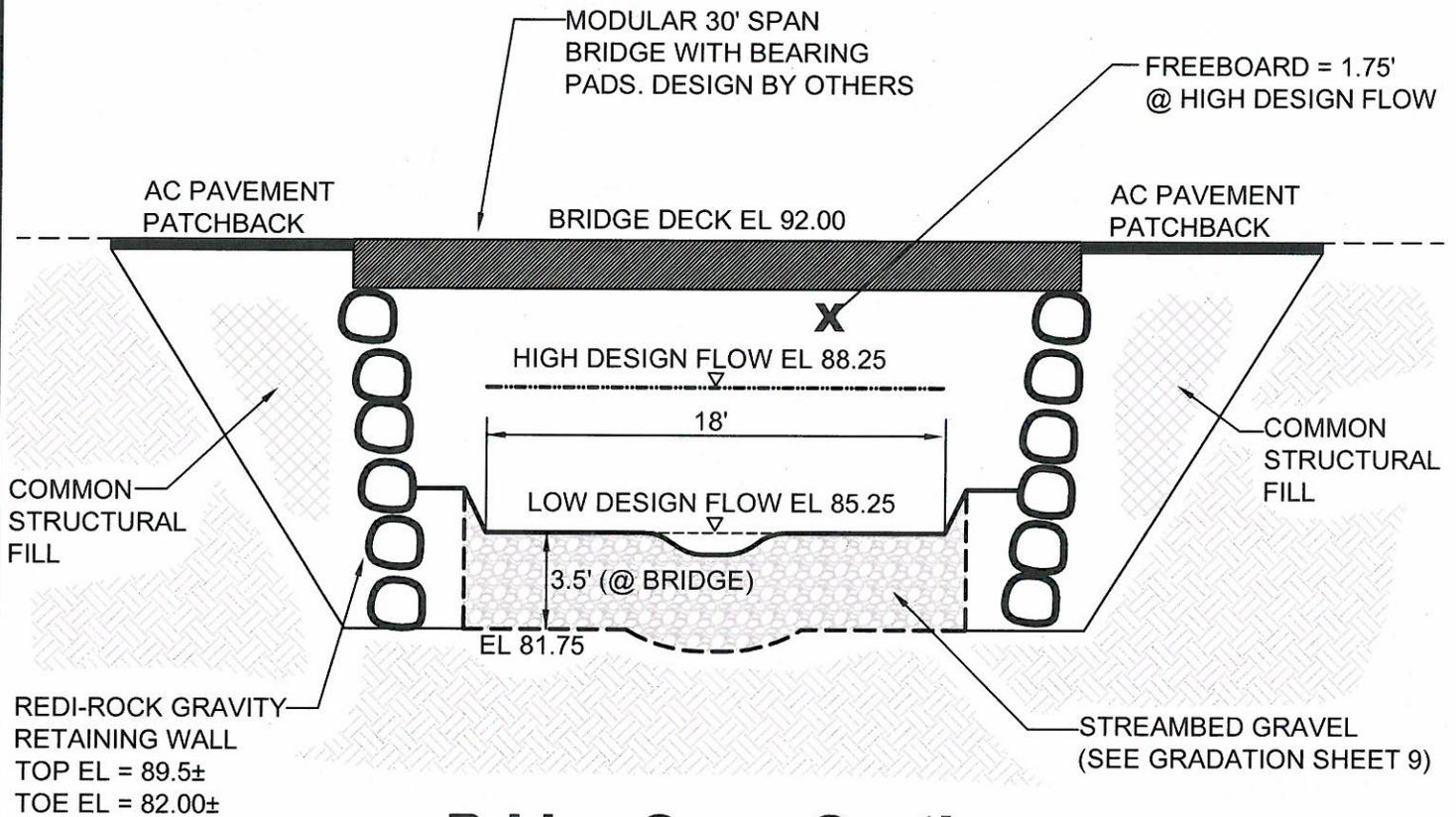
1 PART 4" COBBLES  
2 PARTS STREAMBED SEDIMENT

2 1/2" to 4" - 15%  
1" to 2 1/2" - 35%  
1/8" to 1" - 35%  
< 1/8" - 15%

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:	 Washington Department of <b>FISH and WILDLIFE</b>
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW	
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING	
DATUM: ASSUMED	NEAR: BLACK DIAMOND	
ADJ PROPERTY OWNERS: SEE SHEET 2	WATER BODY: UNNAMED	
	DATE: JANUARY 2016	
		SHEET 9 of 12



**FLAMING GEYSER STATE PARK  
BEAVER CREEK  
CHANNEL REALIGNMENT  
~BRIDGE CROSS SECTION~**



**Bridge Cross Section**

Not to Scale

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: SEE SHEET 1	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
ADJ PROPERTY OWNERS: THIS SHEET	WATER BODY: UNNAMED
	DATE: JANUARY 2016



Washington  
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**FISH and  
WILDLIFE**

**FLAMING GEYSER STATE PARK  
BEAVER CREEK  
CHANNEL REALIGNMENT  
~MATERIAL QUANTITIES / DISTURBED AREAS~**

\*NOTE: THERE IS NO EXISTING O.H.W. AS THE CHANNEL IS BEING CONSTRUCTED. THE ONLY ACTIVITY WITHIN A CURRENT O.H.W. WILL BE FILLING THE CHANNEL THAT IS TO BE ABANDONED.

OUTSIDE OF ROAD

IN ROAD

<u>ITEM</u>	<u>CUT</u>	<u>FILL</u>	<u>CUT</u>	<u>FILL</u>
WITHIN O.H.W.	0 C.Y.	25 C.Y.	0 C.Y.	0 C.Y.
<u>OUTSIDE O.H.W.</u>	<u>2,173 C.Y.</u>	<u>1,187 C.Y.</u>	<u>690 C.Y.</u>	<u>376 C.Y.</u>
SUBTOTAL	2,173 C.Y.	1,212 C.Y.	690 C.Y.	376 C.Y.

\*SPECIFIC MATERIAL QUANTITIES

ROOTWAD ATTACHED LOGS: 5  
 RETAINING WALL: 100 SQ FT±  
 STREAMBED GRAVEL: 1,317 CY  
 BRIDGE DECK: 720 SQ FT

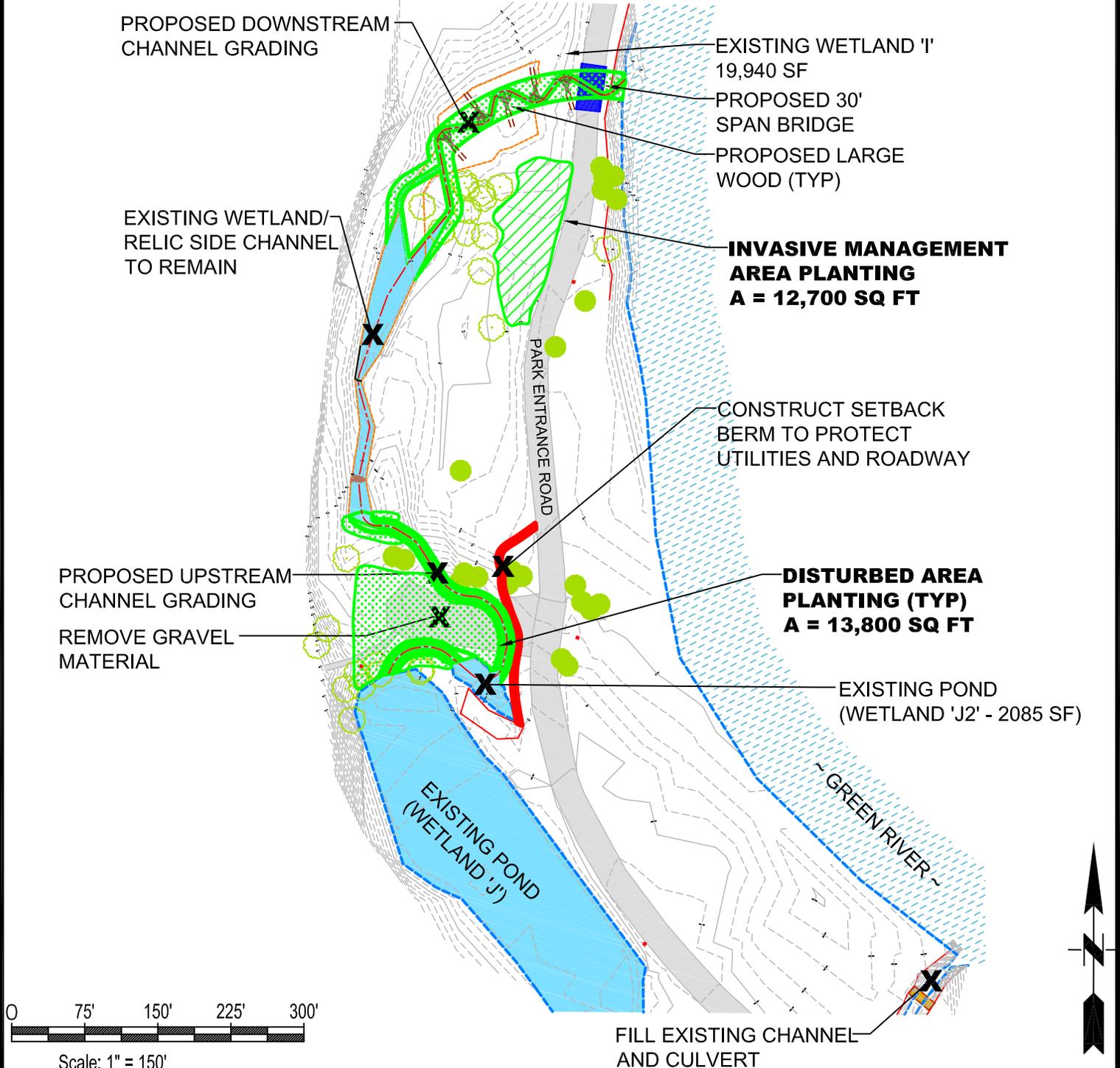
TOTAL DISTURBED AREA = 41,730 SQ FT = 0.96 AC

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ADJ PROPERTY OWNERS: SEE SHEET 2	WATER BODY: UNNAMED
	DATE: JANUARY 2016



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# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~PLANTING OVERVIEW~



PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: PLANTING PLAN OVERVIEW	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
	WATER BODY: UNNAMED
	DATE: JANUARY 2016



Washington  
Department of  
**FISH and WILDLIFE**

SHEET 1 of 2

# FLAMING GEYSER STATE PARK BEAVER CREEK CHANNEL REALIGNMENT ~PLANTING NOTES & DETAILS~

## Invasives Management Planting

PLANT	SPACING	QUANTITY
1 GAL SALMONBERRY	↑	20
1 GAL VINE MAPLE	↑	20
1 GAL NOOTKA ROSE	4' ON CENTER	20
1 GAL THIMBLEBERRY	↓	20
3.5 IN SWORD FERN	4' ON CENTER	60

## Disturbed Area Planting

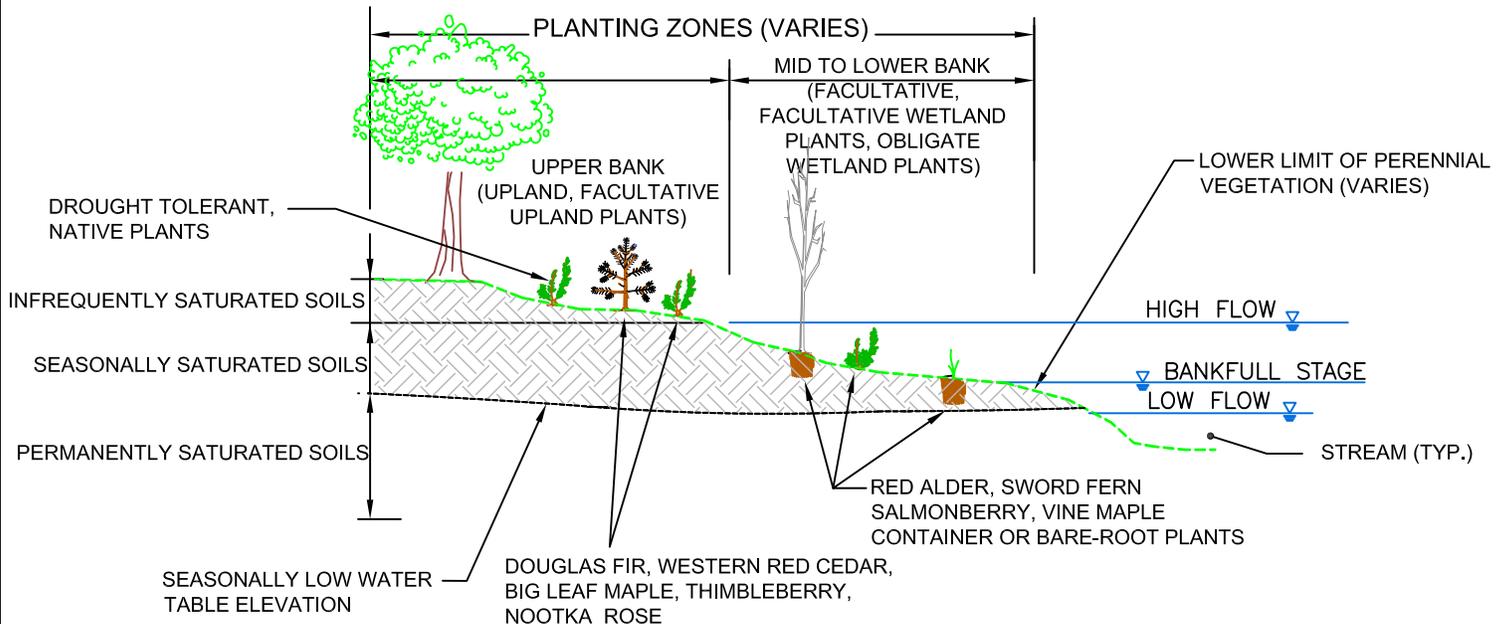
PLANT	SPACING	QUANTITY
1 GAL RED ALDER	↑	20
1 GAL BIG LEAF MAPLE	↑	20
1 GAL SALMONBERRY	10' ON CENTER	20
1 GAL VINE MAPLE	↓	20
1 GAL WESTERN RED CEDAR	↓	20

### INVASIVE MANAGEMENT NOTES:

- EVENLY DISTRIBUTE ABOVE LISTED SALMONBERRY, VINE MAPLE, NOOTKA ROSE, AND THIMBLEBERRY AT 4' ON CENTER.
- DISTRIBUTE SWORD FERN AT 4' ON CENTER OVER ENTIRE AREA.
- REMOVE OR SPRAY INVASIVE PLANTS INCLUDING BLACKBERRY AND VINE BLACKBERRY'S.
- IF PHYSICALLY REMOVED, ENSURE THAT ENTIRE ROOT AND PLANT IS REMOVED.
- UPON REMOVAL OF INVASIVES AND ROOTS, PLANT PER PLANTING SCHEDULE ABOVE AND MULCH HEAVILY WITH WOOD MULCH.
- IF CHEMICAL METHODS ARE USED THEY SHALL COMPLY WITH THE REQUIREMENTS DESCRIBED IN THE KING COUNTY NOXIOUS WEED REGULATORY GUIDELINES.

### DISTURBED AREA PLANTING NOTES:

- PLANTING ZONES PROVIDED ARE APPROXIMATE. APPROPRIATE PLANT SPECIES AND DISTRIBUTION VARY WITH EACH INDIVIDUAL SITE AND PLANT SPECIES CHARACTERISTICS.
- HERBACEOUS PLANTINGS MIGHT BE APPROPRIATE WITH WOODY PLANTINGS.
- PLANTING TO OCCUR WINTER OR EARLY SPRING.
- PLANTS SHALL BE MIN. 2-YRS. OLD.
- IF BARE ROOT STOCK USED, PLANTS SHALL BE PLANTED WITHIN (2) DAYS.
- EVENLY DISTRIBUTE ABOVE LISTED PLANTS IN DISTURBED AREAS AT 10' ON CENTER NOT IN "INVASIVE MANAGEMENT AREA". SEE SEPARATE PLANTING DESCRIPTION THIS SHEET.



## Hydrology-Based Planting Zones and Typical Woody Planting Bank Treatment

PURPOSE: RESTORE STREAM CHANNEL	REFERENCE NO:
PROPOSAL: PLANTING PLAN OVERVIEW	APPLICANT: WDFW
LOCATION: SE FLAMING GEYSER ROAD	COUNTY: KING
DATUM: ASSUMED	NEAR: BLACK DIAMOND
	WATER BODY: UNNAMED
	DATE: APRIL 2016

