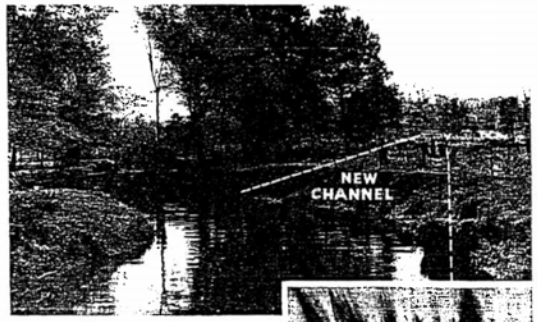
MAKE ABERNATHY GREAT AGAIN

Alternative Title:

On Second Thought, Maybe We Don’t Need a Wall

"Crooked streams are a menace to life..."

How DYNAMITE streamlines streams



Straightening of Pequest River in New Jersey by CCC workers stopped its yearly floods. Location of new channel is seen at right. Note temporary dam at left to provide volume of water for scouring blasted channel.

Explosion of dynamite charge by propagation excavates new channel.

Immediately after explosion, water is entering new channel, whose banks will be smoothed and "stream-lined" by the speedier flow of water.

CROOKED STREAMS are a menace to life and crops in the areas bordering on their banks. The twisting and turning of the channel retards the flow and reduces the capacity of the stream to handle large volumes of water. Floods result. Crops are ruined. Lives are lost. Banks are undermined, causing cave-ins that steal valuable acreage.

In many instances straightening out a stream has doubled its capacity for disposing of run-off water.

DYNAMITE may be used most efficiently and economically in taking the kinks out of a crooked stream. The dynamite is loaded along the length of "cut-off" channel. When fired, the dirt and other debris is heaved high in the air and is scattered over the adjoining territory—leaving practically no spoil-banks. In addition to the material actually thrown out, much dirt is loosened and is later scoured out by the water which rushes swiftly through the straightened channel.

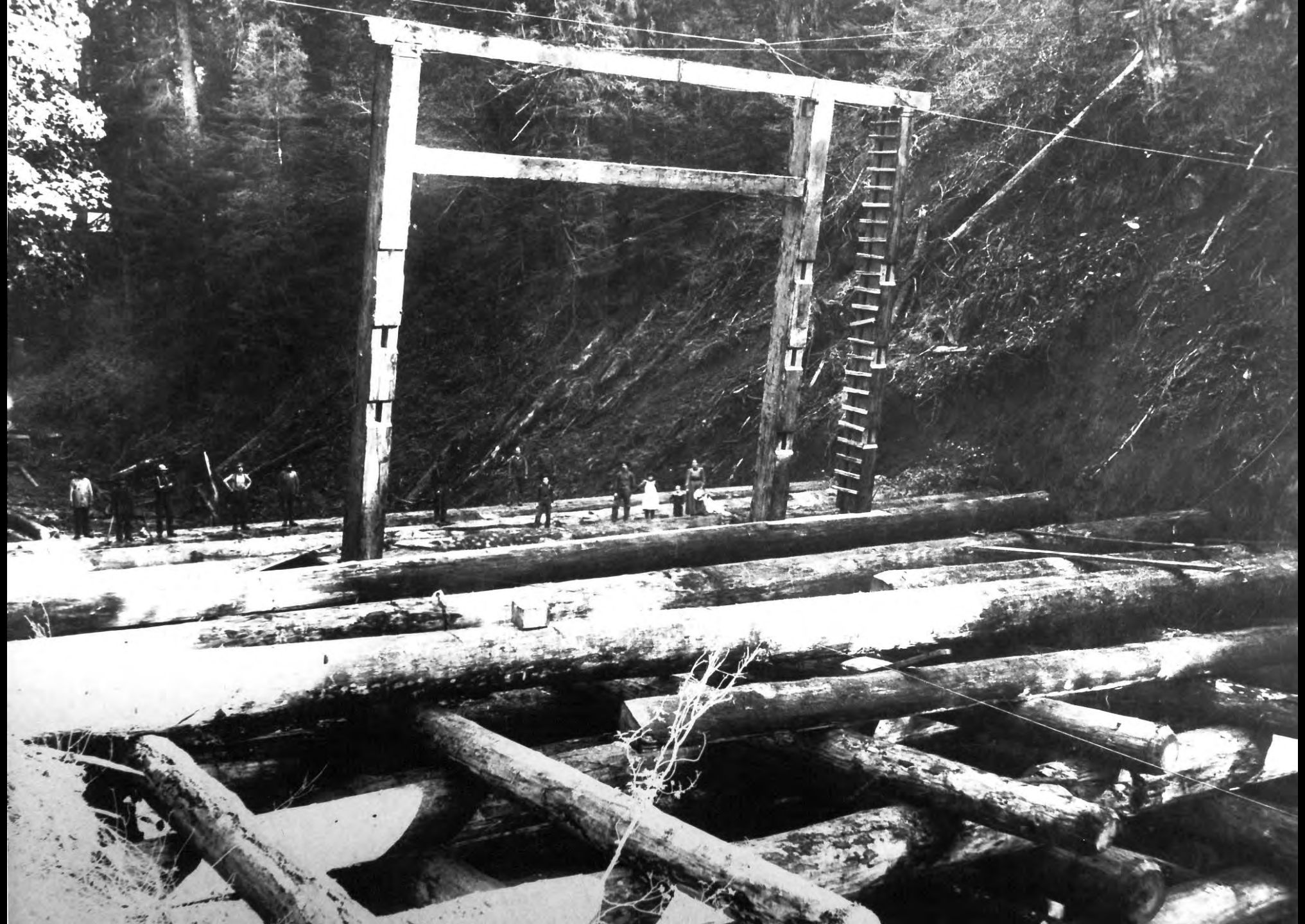
Du Pont Dynamite has straightened many thousands of miles of crooked streams. Du Pont engineers have worked for years to develop the best blasting methods for the cleaning out and straightening of streams. All their data is in a 48-page book, "Ditching with Dynamite." It is for your use. Write for it.

Dynamite can help you do other jobs, too. It can help you build highways, dams; fight soil erosion; work quarries. Du Pont has an explosive for every purpose.

DU PONT

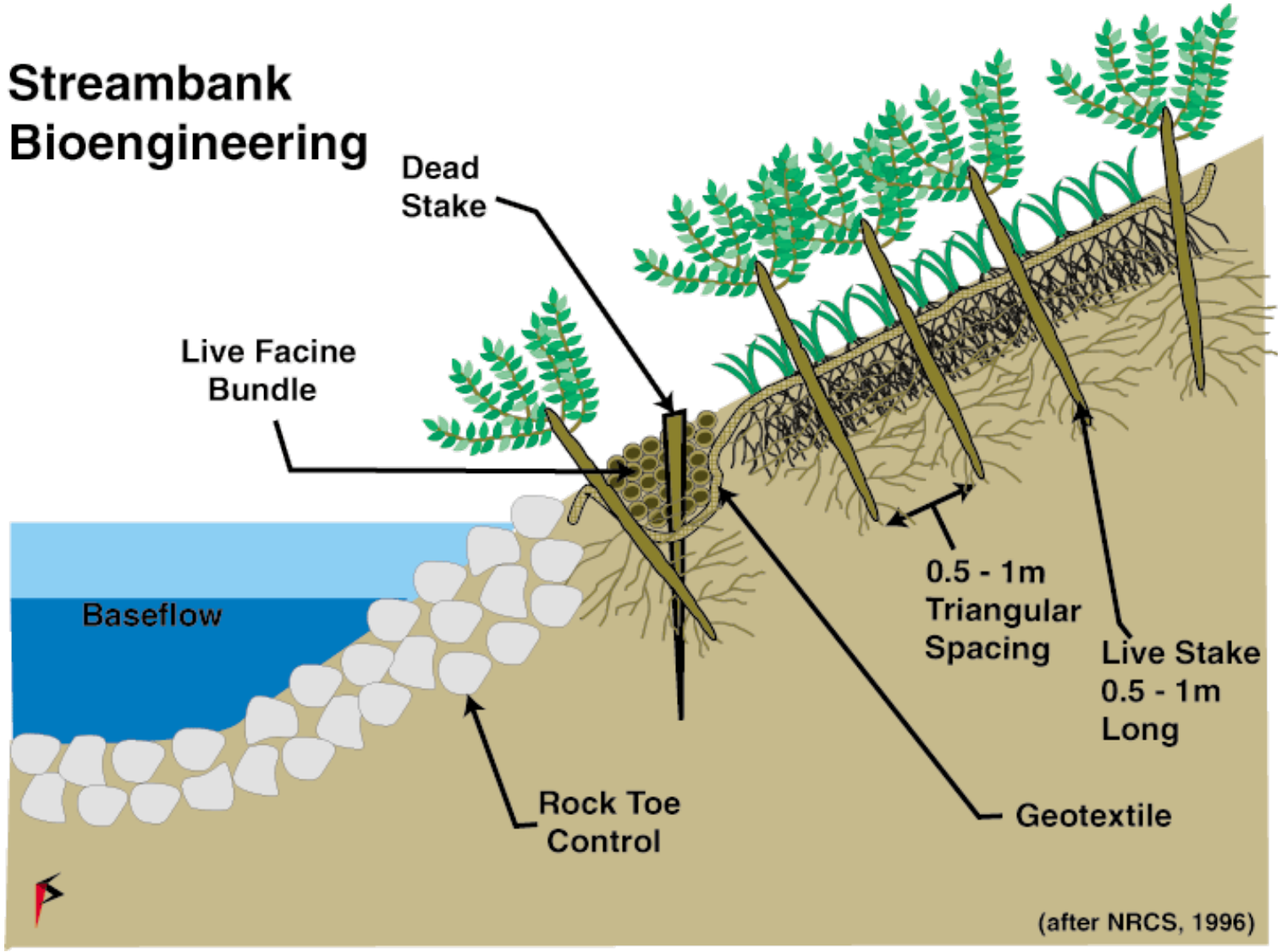
REG. U.S. PAT. OFF.

E. I. du Pont de Nemours & Co. Inc.
Explosives Department



6/18/18
B.T.Co

Keep that stream in place!



Preserving, Protecting and Enhancing the Goose Creeks

In keeping with the Downtown Sheridan Association's mission to preserve and enhance historic downtown Sheridan to ensure future prosperity, the DSA Goose Creeks Committee is committed to its own mission of improving the health and vitality of the Goose creeks and adjacent riparian areas that form the centerpiece of the downtown area.

The Goose Creeks Committee recognizes that the downtown sections of the Goose Creeks are a part of a greater watershed for which a broader management approach is necessary. The Goose Creeks Committee therefore strives to work as a partner with and encourage partnerships between community, state and federal organizations to improve and maintain the health and vitality of the greater Goose creeks watersheds. It is the goal of the Goose Creeks Committee to play an active and ongoing role in developing initiatives to achieve the stream-specific outcomes set forth in the Downtown Master Plan, the City of Sheridan Parks & Recreation Master Plan and the South Park Concept Master Plan.

The Evolution of Flood Control

When the town of Sheridan was founded at the confluence of Big Goose and Little Goose creeks, the two creeks were meandering streams with gravel beds and active floodplains. As Sheridan grew, damage from natural flooding increased, and in 1963 the US Army Corps of Engineers completed a flood control project to protect properties along the creeks, thereby changing the nature of the creeks. While the channel provides flood control, the creeks no longer adequately transport sediment, nor can they self-maintain the riffles, pools and other features that provide fishing habitat and pleasing aesthetics.

In the 1960s, minimizing flood damage was the only goal for such river projects. Today, river projects are expected to take into consideration other goals such as fisheries, self-maintenance, aesthetics, and recreational uses. Rehabilitation of the Goose Creeks through Sheridan will accomplish several objectives:

- Maintain current flood capacity
- Decrease annual maintenance
- Aid in water quality improvement efforts
- Improve sediment transport
- Increase fisheries habitat components including runs, riffles, glides, feeding lanes, cover, etc.
- Enhance aesthetics
- Tie to downtown and existing pathways
- Provide public access to streams
- Provide a public gathering place to enhance commerce and recreation, featuring historical signs, decorative lighting, benches, bike racks, and seasonal access

Existing concrete channel

Proposed downtown Riverwalk

Kendrick Park - Completed 2008

The Kendrick Park Stream Enhancement Project on Big Goose Creek lies within a popular City park in the heart of Sheridan. Supported by funding from the Wyoming Wildlife Natural Resource Trust Fund, Montana-Dakota Utilities, and Trout Unlimited, this project addressed issues of limited access, active bank erosion, and lack of stream diversity.

Natural materials such as boulders and vegetation were used to create pools, riffles, more diverse habitat, and public access. Stream stabilization structures were designed to improve the stream as a fishery and establish trout habitat along the creek, allowing the public to enjoy trout fishing within City limits.

Excessive sediment deposition, concrete debris and insufficient public access near pedestrian bridge

Looking upstream from pedestrian bridge at cross-vane structure providing increased habitat and public access

South Park - Completed 2012

The South Park Pathway and Stream Enhancement Project on Little Goose Creek lies within the natural flood plain immediately prior to the start of the Sheridan flood control channel. This project provided much-needed stream stabilization and additional improvements to enhance recreational use by the public.

Natural materials were used to build structures that use the stream's own flow to direct the channel and reduce bank erosion. Stream stabilization structures were designed to decrease sediment resulting from eroding banks, thereby improving water quality throughout Little Goose Creek. The stream enhancements also provided public access to the streams within South Park.

View downstream showing active bank erosion

Upstream view along previously eroding bank stabilized to improve water quality

North Park - Proposed

A stream enhancement project along Goose Creek within the North Park area is currently in the design and permitting phase. Nearly a mile of Goose Creek meanders throughout the North Park area and along the newly developed pathway. As with much of Goose Creek within Sheridan, this reach has experienced extensive bank erosion and over-widening of the channel, which has in turn impaired water quality and stream function.

Similar to the work already completed in both South Park and Kendrick Park, the North Park Project on Goose Creek will utilize natural materials to provide channel stability and increase diversity of the channel. These structures will also provide stream access and pleasing aesthetics throughout the reach during both low and high flow seasons.

Downstream view of active bank erosion along pathway

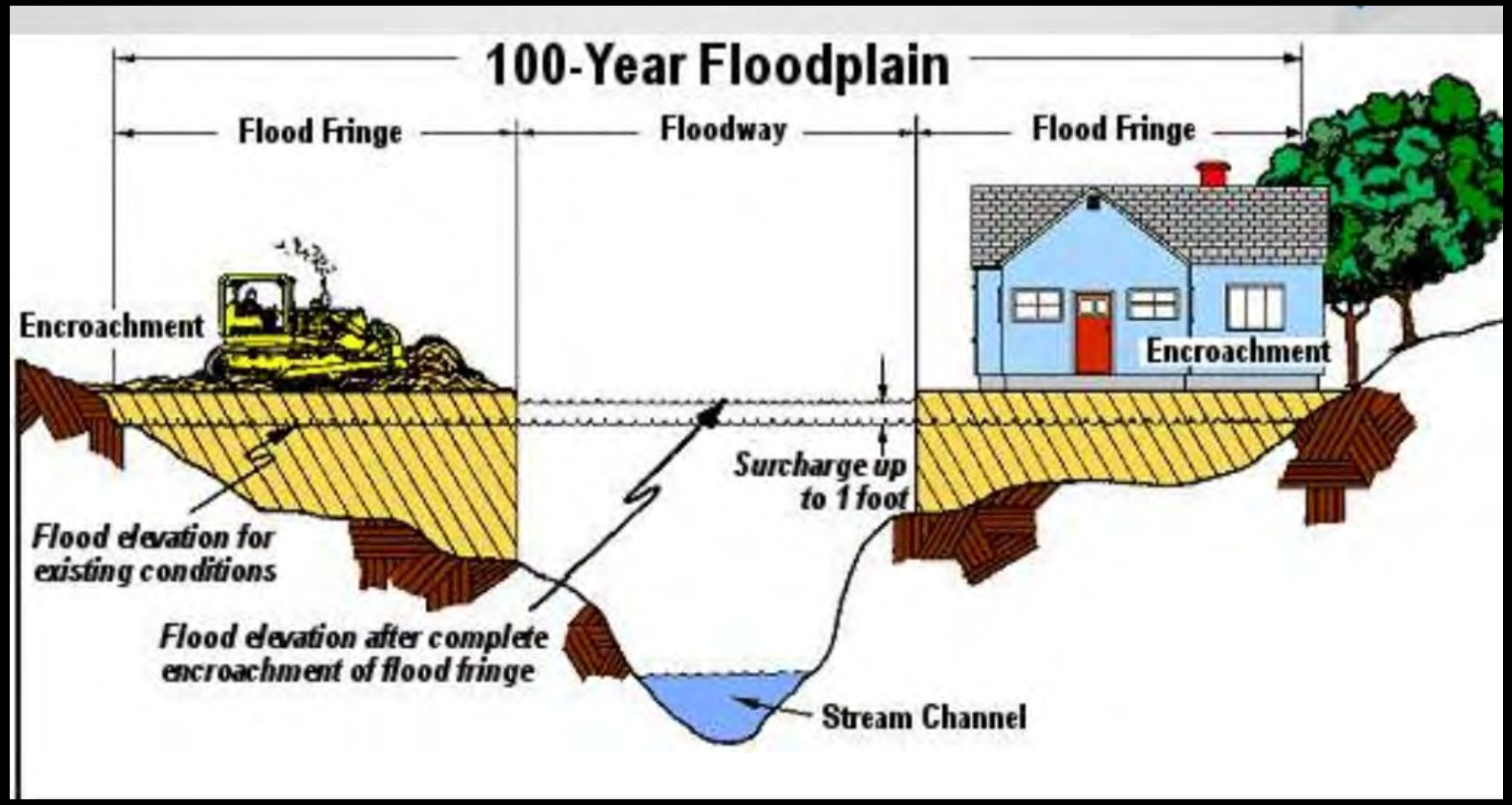
Downtown Riverwalk - Proposed

The Downtown Riverwalk is envisioned as an oasis in the heart of downtown Sheridan, where residents and visitors can mingle in the shade beside peaceful drops and pools near the confluence of Little Goose and Big Goose Creeks.

A collaborative partnership between

Visit **www.goosecreeks.com** to learn more and find out what **you** can do to **help** preserve, protect and enhance our Goose Creeks!

Is It Time to Walk Away from Lost Causes?



Borrowed w/o permission from City of College Station, TX

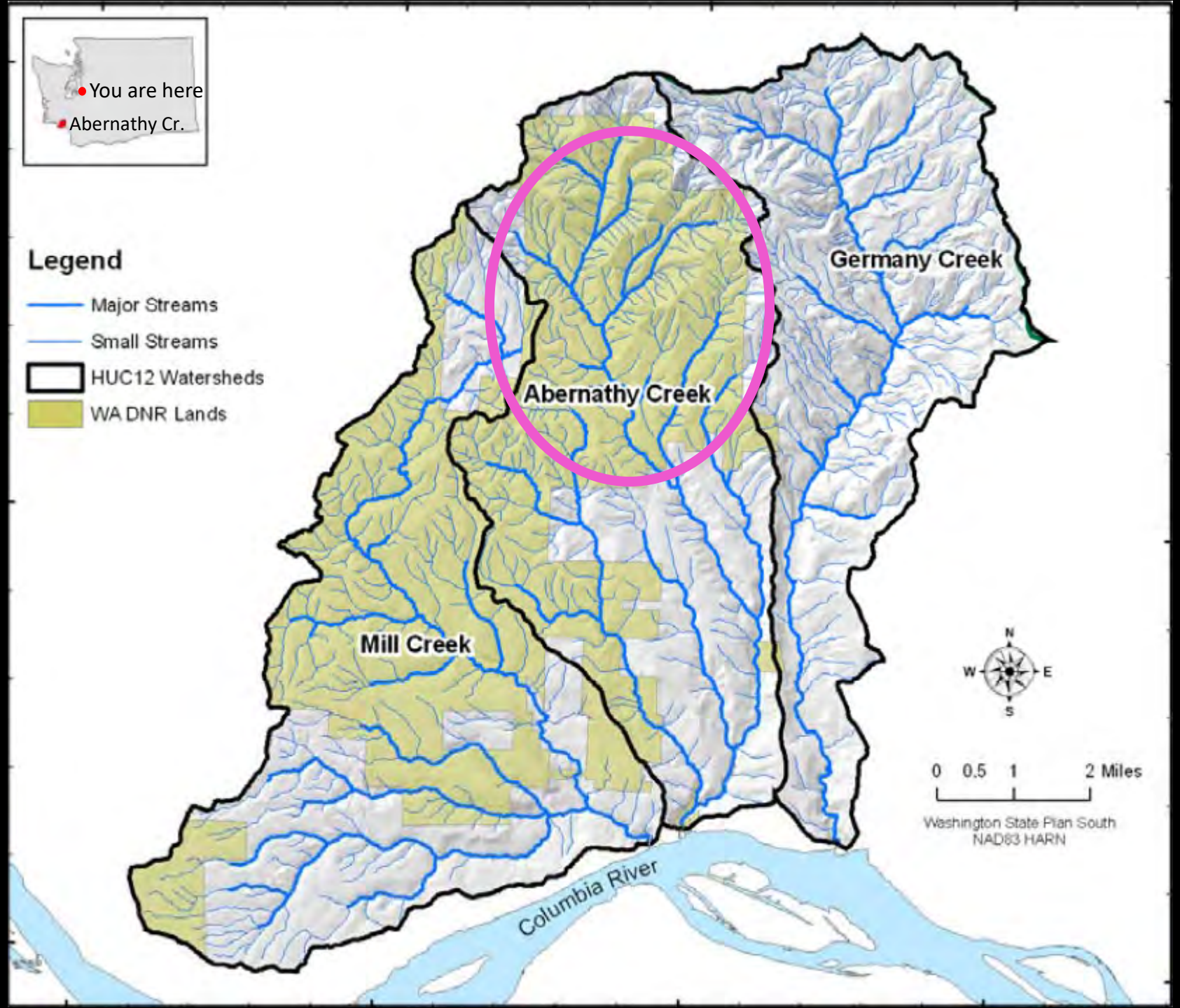
"Chaos was the law of nature;
Order was the dream of man."

-- Henry Adams, 1918

[20th Century]

"It is now generally accepted that river engineering and management that works with rather than against natural processes is more likely to attain and sustain the multi-functional goals demanded by local stakeholders…"

-- Cluer and Thorne, 2013


You are here
Abernathy Cr.
Legend
Major Streams
Small Streams
HUC12 Watersheds
WA DNR Lands
Germany Creek
Abernathy Creek
Mill Creek
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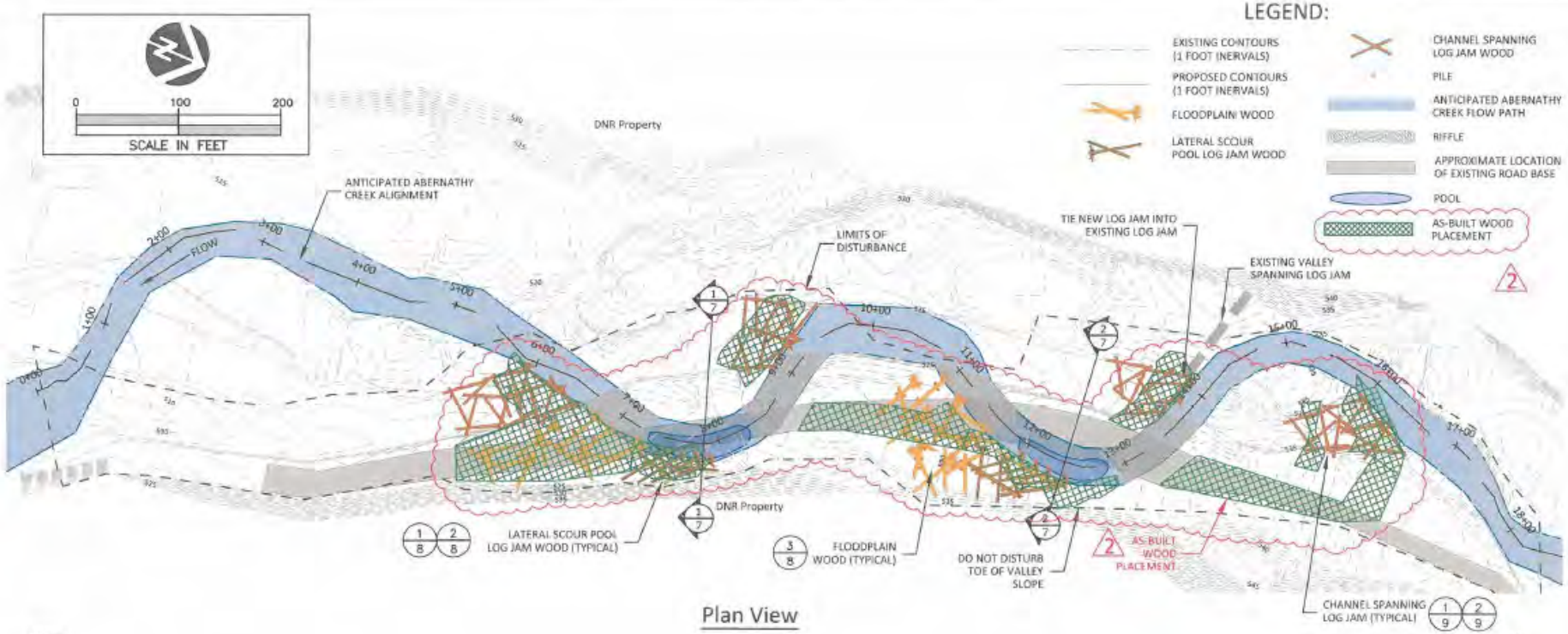
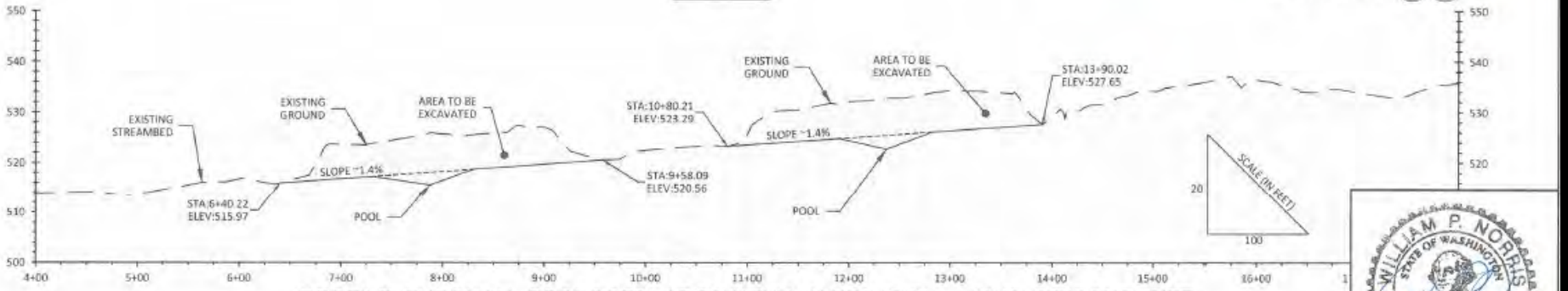


Plan View



PROFILE THROUGH PROPOSED ABERNATHY ALIGNMENT – TWO BRIDGES SITE

NO	BY	DATE	REVISION DESCRIPTION
A	BN	2/15/12	AS-BUILT WOOD PLACEMENT

MWJ	BN, DS	BN
DRAWN	DESIGNED	CHECKED
BN	6/8/12	
APPROVED	DATE	PROJECT

Cowlitz Indian Tribe
Abernathy Creek, Two Bridges Site
Cowlitz County

COWLITZ INDIAN TRIBE
inter·fluve
1020 Mason Street, Suite I
Hood River, OR 97031
541 386 9003
www.interfluve.com

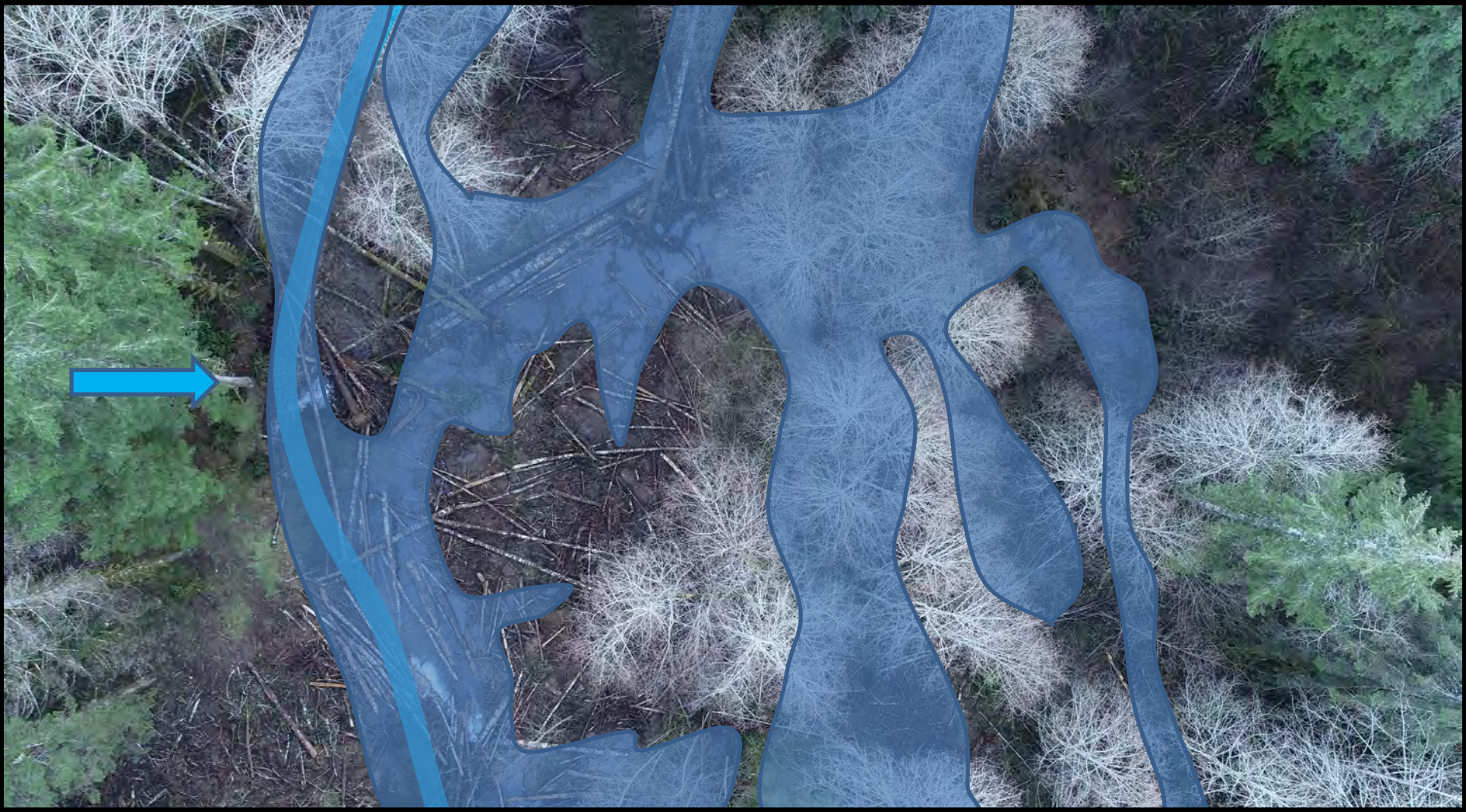
Plan View and Profile View of Proposed Conditions

SHEET 6 OF 13

WILLIAM P. NORRIS
STATE OF WASHINGTON
34576
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12-28-2014

High Cost
Low Risk
High Stability
Modest habitat gain

33"
RELEASE POCKET
FULL GRAIN LEATHER
MacGregor



MAGA Partners

Lower Columbia Fish Recovery Board – Celebrating 20 Years 1998–2018

Washington State Department of Natural Resources

Department of Ecology, State of Washington

Weyerhaeuser

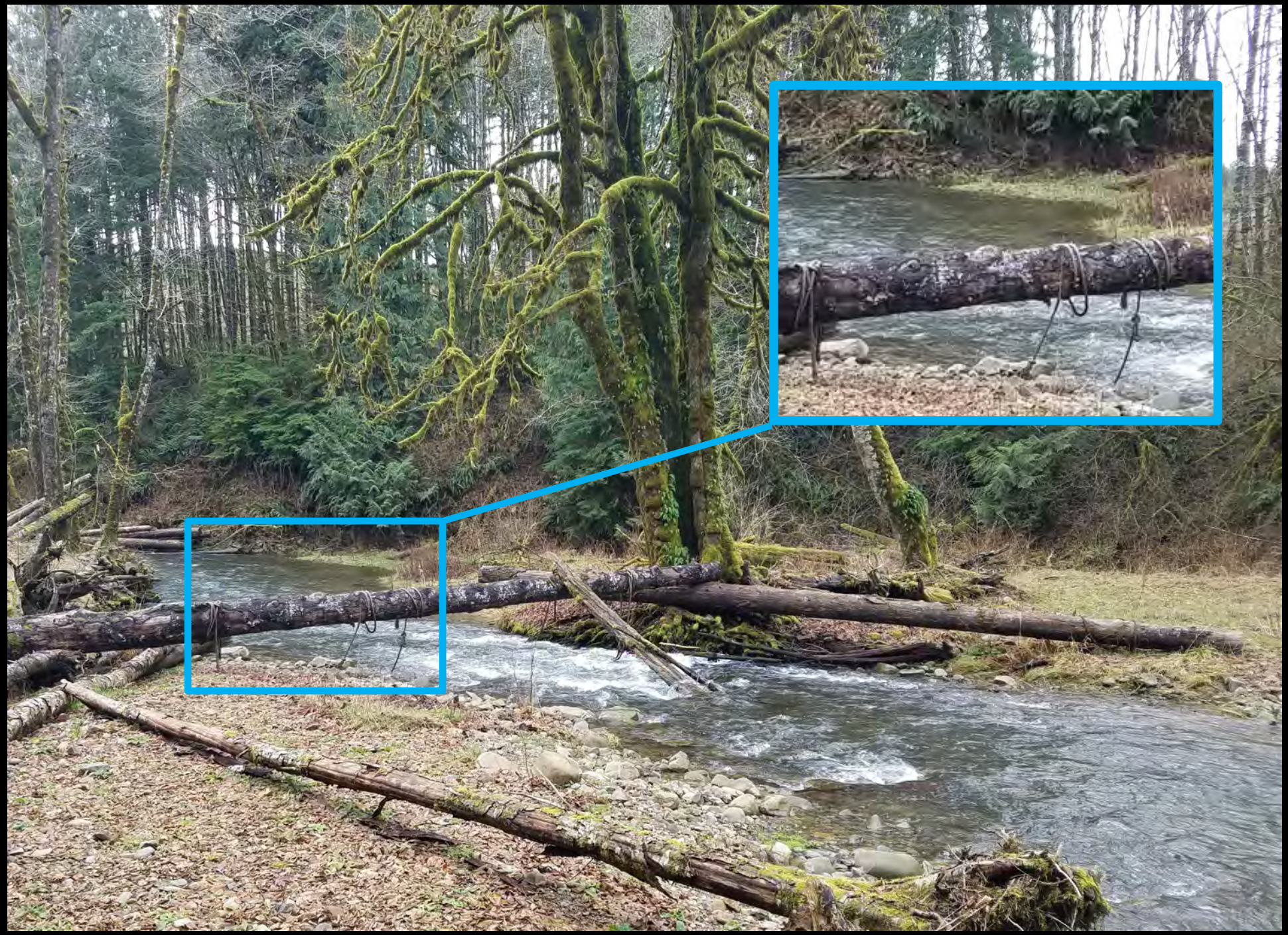
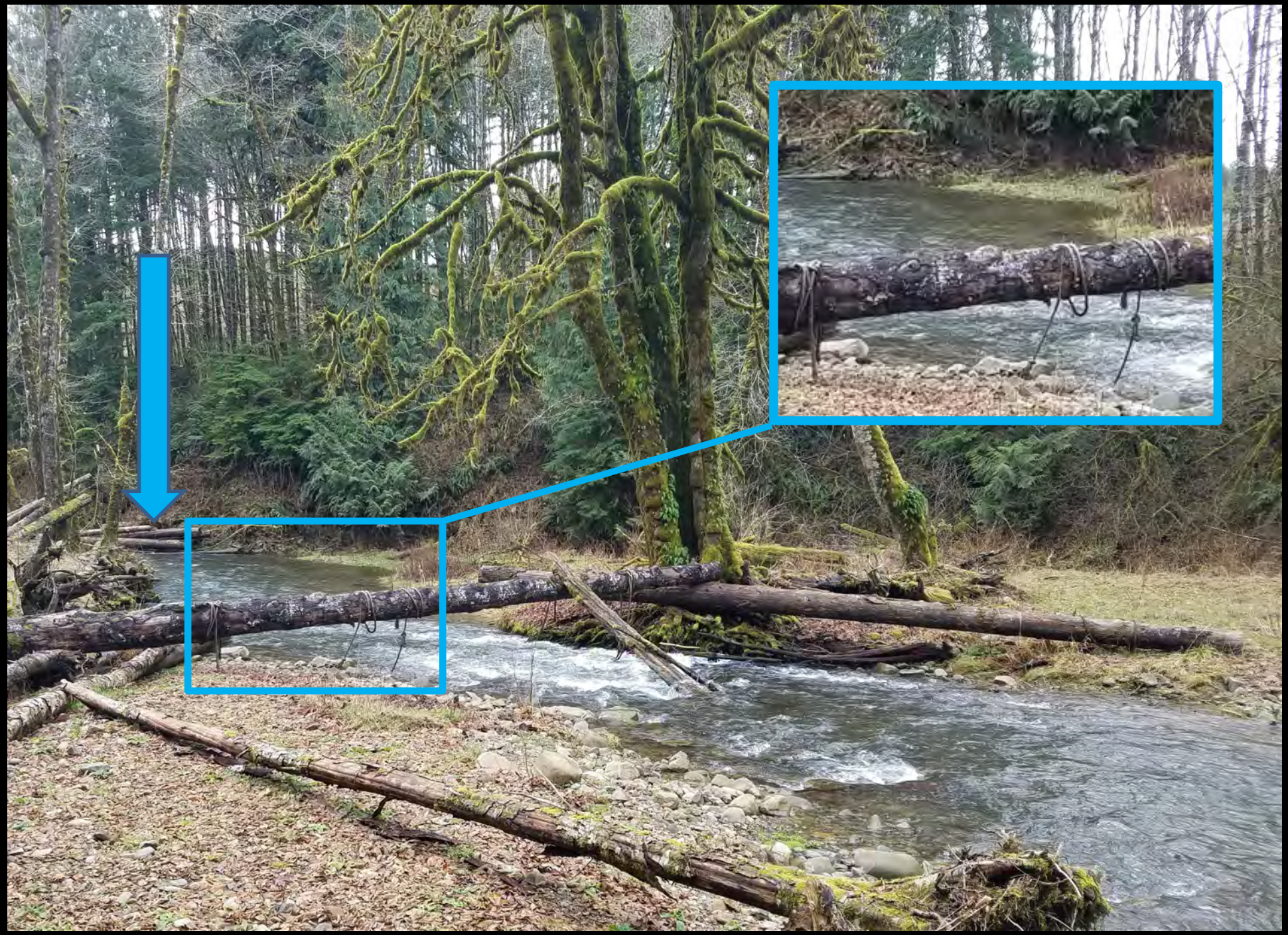
Washington State Salmon Recovery Funding Board

National Oceanic and Atmospheric Administration – NOAA – U.S. Department of Commerce

ERS Ecosystem Restoration Services

ecotrust

U.S. Fish & Wildlife Service – Department of the Interior

inter·fluve

Washington Department of Fish and Wildlife