

An aerial photograph of a river basin. In the foreground, a large steel truss bridge spans a wide river. The river flows from the bottom left towards the right. In the background, a town with several buildings and parking lots is visible, surrounded by green trees. Another bridge is visible further upstream. The text 'Chehalis Basin' is overlaid in large white letters, with 'LAND' in a large outline font below it. A small asterisk is placed near the top right of the 'D' in 'LAND'.

Chehalis Basin LAND*

***LOCAL ACTIONS NON-DAM ALTERNATIVE**

Chehalis Basin Board Meeting
May 4, 2023

PRESENTATION OVERVIEW

Identification of Potential Near-Term Opportunities and Actions:

- **Engaging in existing projects with a LAND relationship**
- **Establishing foundations to support Basin-wide program development**
- **Enabling local communities to evaluate and implement LAND-related policies**



PRELIMINARY LAND ALTERNATIVE

Chehalis Basin
LAND

FOUR KEY CHARACTERISTICS OF THE LAND ALTERNATIVE

1. The LAND Alternative is **Basin-Wide**.
2. The LAND Alternative emphasizes **local control** and decision making.
3. The LAND Alternative provides **multiple benefits** through floodplain and habitat restoration, structure protection, economic development, recreation and open space opportunities.
4. The LAND Alternative incorporates multiple benefit components and is eligible for a **very wide range of funding sources** including State, Federal, and grant funds.

THE PRELIMINARY LAND ALTERNATIVE

PROJECTS

- PJ1: Critical Roads and Bridges
- PJ2: Levees and Floodwalls
- PJ3: Improved Channel Conveyance
- PJ4: Channel Diversion
- PJ5: China Creek Daylighting

PROGRAMS

- PG1: Safe Structures
- PG2: Community Resiliency
- PG3: ASRP/LAND Alignment
- PG4: Equity Set Aside
- PG5: Floodplain Restoration

POLICIES

- PL1: Economic Development, Land Use, and Growth Management
- PL2: Building and Development Codes
- PL3: Capital Facilities
- PL4: Funding

DETERMINING OCB ROLE IN PROJECTS, PROGRAMS AND POLICES

*Regardless of what future flood damage reduction option is pursued, the Chehalis Basin Board can support local **near-term** projects, programs and policy development identified in LAND to reduce flood damage through one or more options:*

- Political support
- Financial support
- Technical assistance
- Other actions identified by the Board



NEAR-TERM PROJECT OPPORTUNITIES

Chehalis Basin
LAND

PJ1: CRITICAL ROADS AND BRIDGES

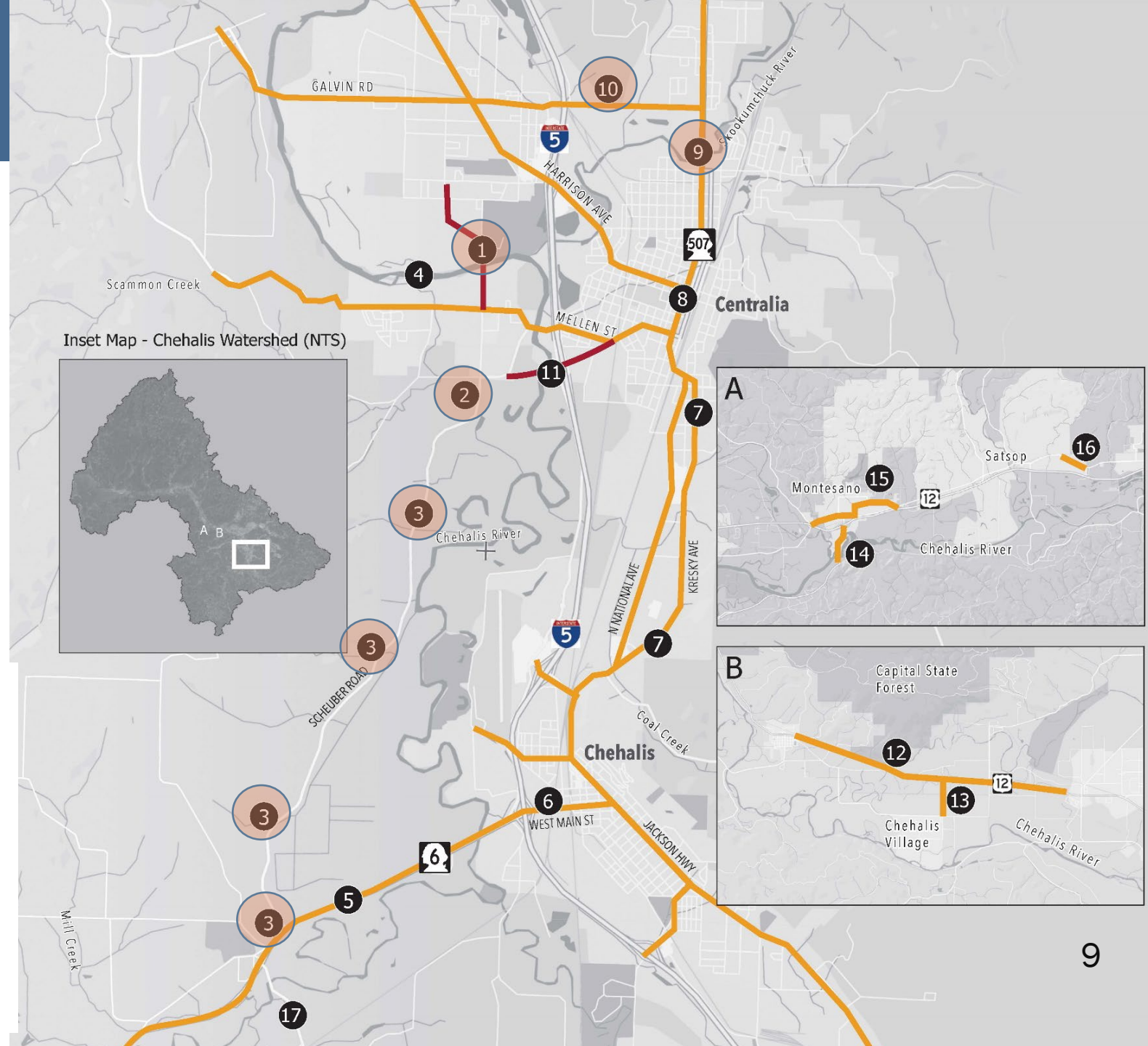
- 1 South Scheuber Road Bridge
- 2 South Scheuber Road —Graf/Military Road
- 3 South Scheuber Road —West Connection
- 4 Cooks Hill Road
- 5 State Route 6 (South Scheuber Road to I-5)
- 6 West Main Street
- 7 National to Kresky
- 8 State Route 507 through Centralia
- 9 Pearl Street and Bridge (SR 507)
- 10 Reynolds Road
- 11 New Mellen Street Bridge
- 12 Raise SR 12
- 13 RaiseAnderson Road
- 14 State Route 107
- 15 Montesano Bypass
- 16 Monte Elma Road
- 17 Old Highway 603

PJ1: CRITICAL ROADS AND BRIDGES

- Projects 1, 2, 3 and 10 are on the Lewis County Transportation Improvement Plan
- Project 9 is scheduled for bid prior to 2027

LEGEND

- Evacuation Routes per 2016 Lewis County Multi-Jurisdictional Hazard Mitigation Plan
- Potential New Bridges



PJ1/PJ2: ENGAGING ALREADY PROGRAMMED PROJECTS

Coordinate with near-term projects with a relationship to LAND

PJ 1.1 South Scheuber Road/West Connection (#1, #2, #3)

- **LAND Relationship: crosses proposed Fort Borst Park levee (PJ2.4) and provides emergency access to the hospital**

PJ 1.2 Pearl Street Bridge Replacement (#9)

- **LAND Relationship: crosses proposed expanded Skookumchuck levee (PJ2.3)**

PJ 1.3 Reynolds Road Improvements (#10)

- **LAND Relationship: Identified as an important east/west emergency access route and connection to hospital**

PJ1/PJ3/PJ4: POTENTIAL EARLY ACTION PACKAGE

1. Update structures data
2. Identify the extent of permitted development
3. Identify acceptable downstream rise and duration goals
4. Model diversion and flow improvements to meet downstream goals
5. Refine Infrastructure costs with utility data and property data

PJ3: Improved Conveyance

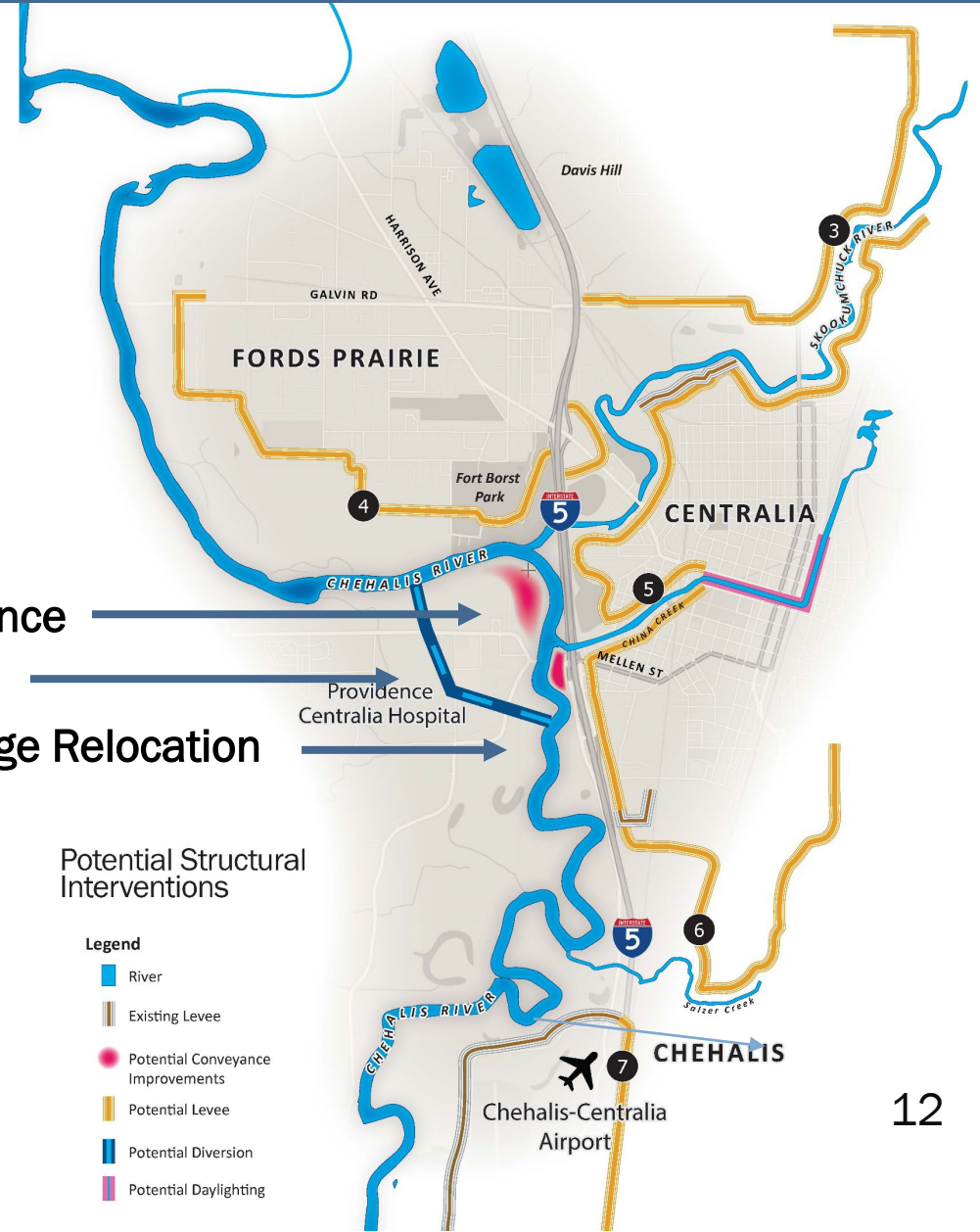
PJ4: Channel Diversion

PJ1: Mellen Street Bridge Relocation

Potential Structural Interventions

Legend

- River
- Existing Levee
- Potential Conveyance Improvements
- Potential Levee
- Potential Diversion
- Potential Daylighting





NEAR-TERM PROGRAM OPPORTUNITIES

PG1: SAFE STRUCTURES (IMMEDIATE ACTIONS)

Expanding CFAR or replacing it with a Safe Structures program should proceed regardless of what future flood damage reduction option is pursued.

- PG 1.1** Provide additional project management and technical assistance for landowners, renters, and local jurisdictions to implement the existing CFAR program.
- PG 1.2** Develop expanded CFAR/Safe Structures Program Plan that identifies increased staff capacity to pursue funding opportunities to address program scale and phasing.
- PG 1.3** Provide technical assistance to jurisdictions to update flood maps

PG2: COMMUNITY RESILIENCY (IMMEDIATE ACTIONS)

Resiliency measures should be expanded and coordinated across the Basin, regardless of what future flood damage reduction option is pursued.

PG 2.1 Organize a working group to develop an Upper Chehalis Basin Community Resiliency Plan to increase capacity and coordination among public agencies (*HB1728 will require this at the state level*).

PG3: ASRP/LAND ALTERNATIVE ALIGNMENT (IMMEDIATE ACTIONS)

The ASRP does not include flood damage reduction in its goals, but much of what is recommended in the ASRP and LAND could provide economic, environmental and flood damage reduction value.

PG 3.1 Create an ASRP/LAND Working Group to identify potential synergies between the two programs



NEAR-TERM POLICY OPPORTUNITIES

PL1: ECONOMIC DEVELOPMENT, LAND USE, AND GROWTH MANAGEMENT

Local comprehensive plan updates are required in the next 3-5 years. They can establish the foundation for more resilient communities and less development in flood-prone areas

- PL 1.1** Update comprehensive plans and apply best practices for reducing future flood damage
- **LAND relationship: provide technical assistance and/or funding to evaluate land uses and update flood maps in support of locally led land use planning (see also additional technical studies related to receiving areas)**

PL2: BUILDING AND DEVELOPMENT CODES

- PL 2.1** **Update flood maps** within the Upper Basin to reduce development in flood prone areas (if not already completed)
- **LAND Relationship:** see PL 1.1 (Comprehensive Plan updates relate to best practices)
- PL 2.2** **Review/Update Development Codes**
- **Complete audits** of all development codes in the Basin related to floodplain development

Some flood maps have not been updated in over 20 years!



NEXT STEPS

Chehalis Basin
LAND

RECOMMENDED ADDITIONAL NEAR-TERM TECHNICAL STUDIES

TS1: Levee Feasibility Analysis

TS2: Geotechnical analysis for the diversion/conveyance options

TS3: Cultural resources consultation

TS4: Update structures database

TS5: Structural intervention refinements to improve downstream conditions.

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