



**COLORADO**

Department of  
Transportation

**Connecting Communities and Lives After a Disaster**  
**Johnny Olson, Region 4 Regional Transportation Director**  
**Larimer County Recovery Expo Aug. 16, 2014**





# September 11, 2013 Flood Event

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# Unimaginable Destruction

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# Flood Recovery Scope and Impacts

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- \$450 million estimated damage to facilities
  - \$153 million local agency impact
- 486 Miles of state highway closed
- 200+ Bridges and culverts damaged
- 120,000 cubic yards of debris removed







# Reconnecting Lives

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## Promise

Gov. sets date  
of Dec. 1, 2013,  
for roads to  
reopen





# Flood Recovery

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100%  
**Reopen**

November 26,  
2013







Thank you for building our road home!

Love,

The Children of Lyons

Marc  
Thank Everything  
Thank you  
Haley  
Kate  
Iay W  
Love  
Ben  
Sasha  
Thank  
Hannah  
Dusek  
Julia  
Will  
A M  
Eve  
Jack  
Riley  
Katie  
Ben  
Jarod  
Michael  
Finn  
Carsten  
Sunny  
W  
Maddie  
Boo  
Ano  
Sasha  
Ben  
Ben  
Michael  
Finn  
Carsten  
Sunny  
W





# Risk and Resiliency – Building Back Better

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# US 36 – The first permanent repair

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# Philosophy of Repairs – US 36 Example 1

## ORIGINAL & DAMAGED TYPICAL SECTION

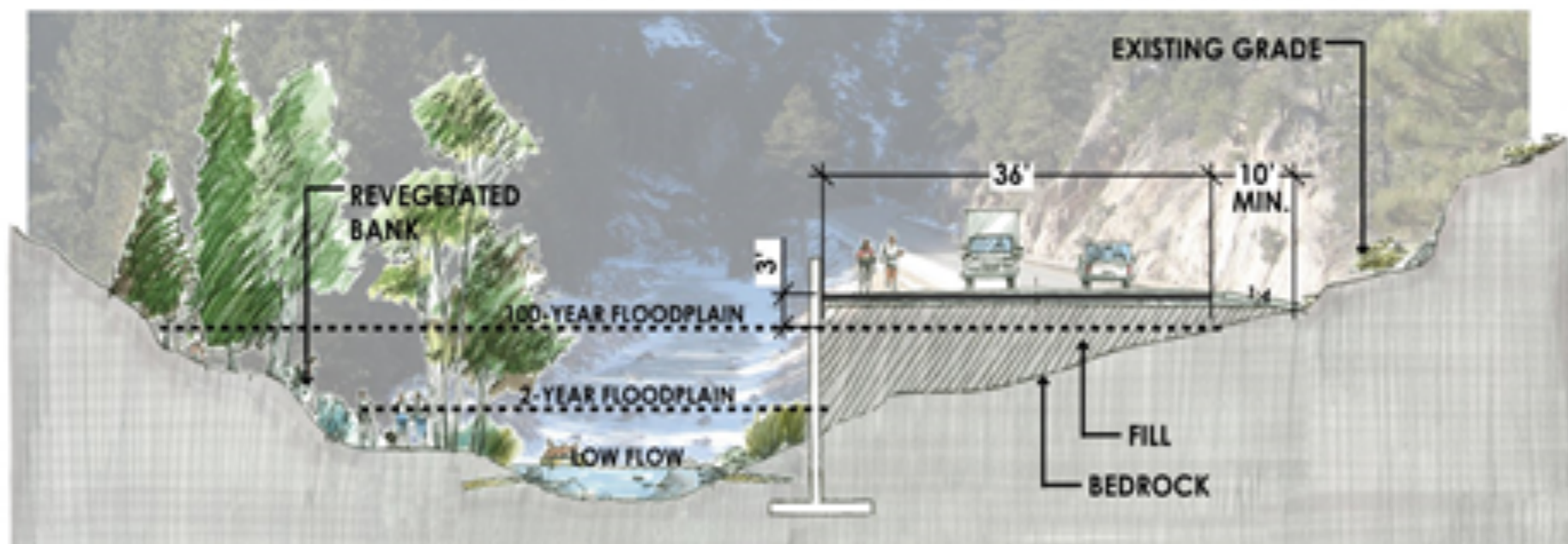






## Philosophy of Repairs – US 36 Example 2

### CONVENTIONAL REPAIR TYPICAL SECTION

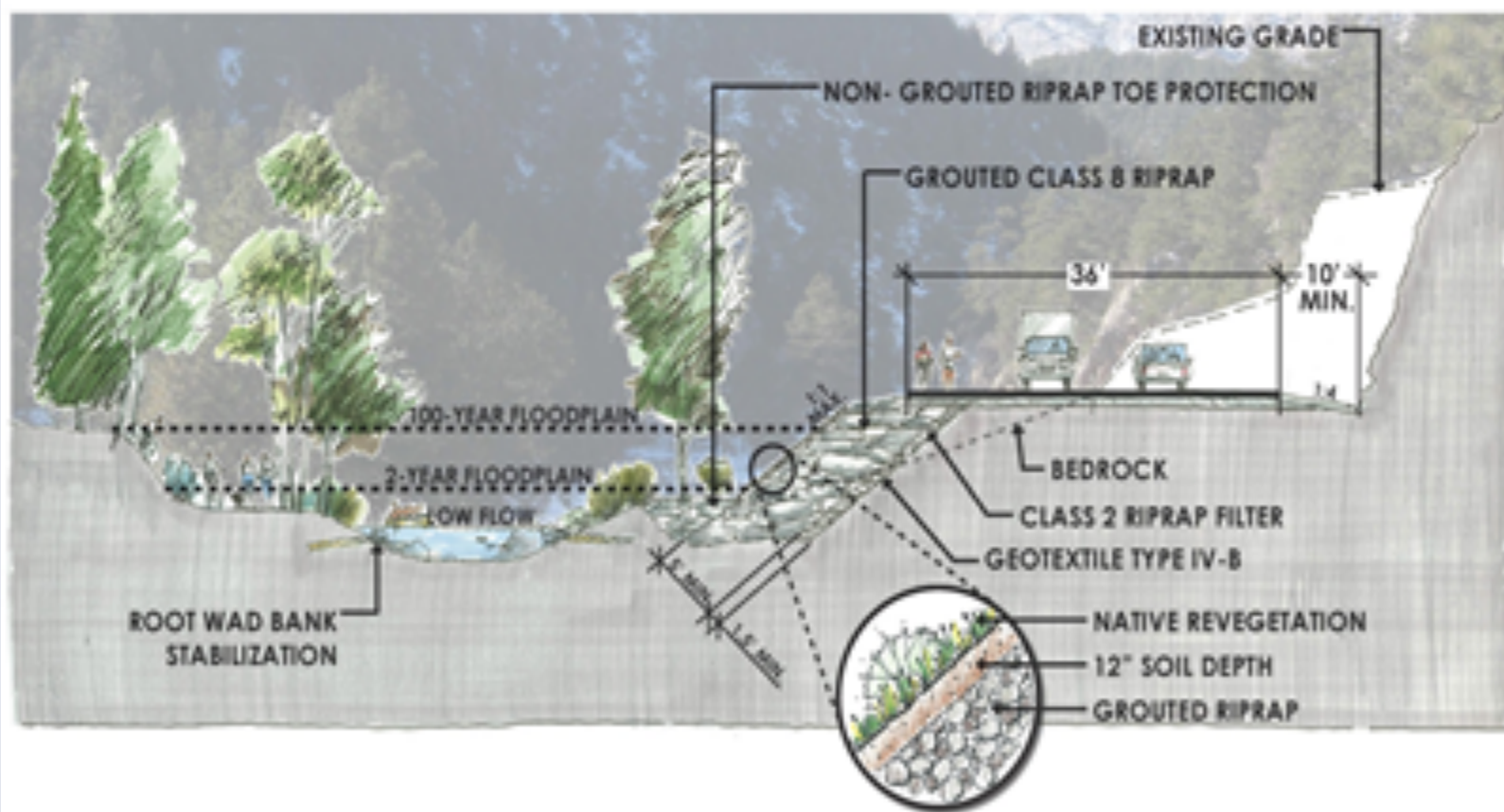






# Philosophy of Repairs – US 36 Example 3

## PROPOSED REPAIR TYPICAL SECTION







# Partnership and Collaboration

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Office of Emergency Management  
Federal Emergency Management Agency (FEMA)  
Central Federal Lands  
Federal Highway Administration (FHWA)  
Colorado Water Conservation Board (DNR)  
US Forest Service  
Army National Guard  
Cultural Resource Agencies  
Local Agencies  
Contractors  
Consultants







# New CDOT flood web page!

- <http://www.coloradodot.info/projects/floodrelatedprojects>





# CDOT/CWCB Hydrologic Evaluation

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- Collaborating to determine peak flood estimates and revised hydrologic modeling for watersheds below:

County and Flooding Source Name	Highways	Location and Drainage Area
Larimer, Big Thompson River	US 34	Big Thompson River Below Lake Estes to West Loveland
Larimer, Little Thompson River	US 36	Little Thompson River Headwaters to Pinewood Springs
Boulder, St. Vrain River	SH 7 and US 36	St. Vrain Creek Headwaters (North, Middle, and South) to I25
Boulder, Boulder creek	SH 119	Boulder Creek below Barker Reservoir to West Boulder
Weld, South Platte River	US 85 and US 34	Big Thompson River confluence to Cache la Poudre River Confluence
Jefferson, Coal Creek	SH 72	Coal Creek Headwaters to Jefferson/Boulder County Line



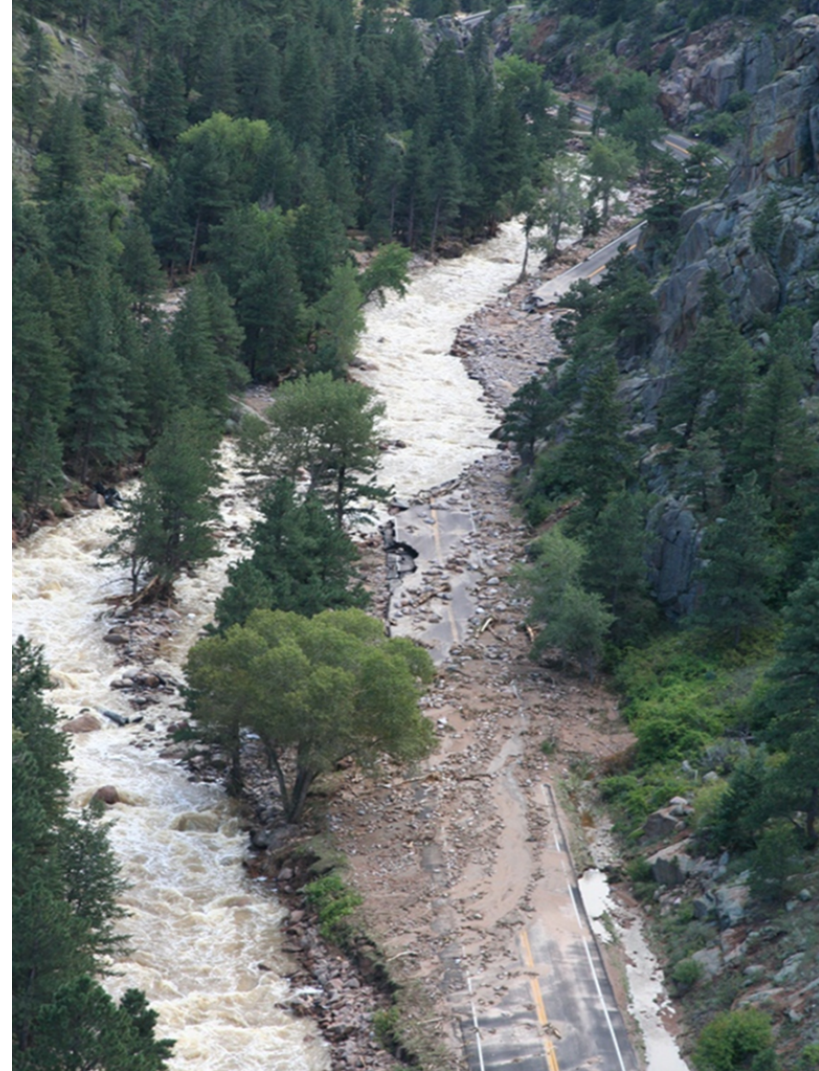


## Stream Teams

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CWCB working with Local Communities to establish Coalitions to develop Watershed Master Plans

CDOT will provide Hydrologic Evaluations for the various watersheds







# QUESTIONS

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Johnny Olson

Regional Transportation Director

Flood hotline:

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