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COLORADO

Department of
Transportation



**US 34 Big Thompson Canyon Permanent Repair Project
CMGC Services Mandatory Pre-Proposal Meeting
March 31, 2015**





AGENDA

- Introduction
- Project Team
- Project Background
- Project Goals
- Project Overview/Elements
- Request for Proposals - overview of key items
- CMGC Pre-construction Process
- Q&A



Introduction

Governor's Challenge:

"Build back better than before"



Flood Program Mission Statement:

In our continuing effort to recover from the 2013 Flood, we will work together through partnership to effectively and responsibly re-build a better, stronger, more resilient transportation infrastructure system, while maximizing federal and state reimbursements.



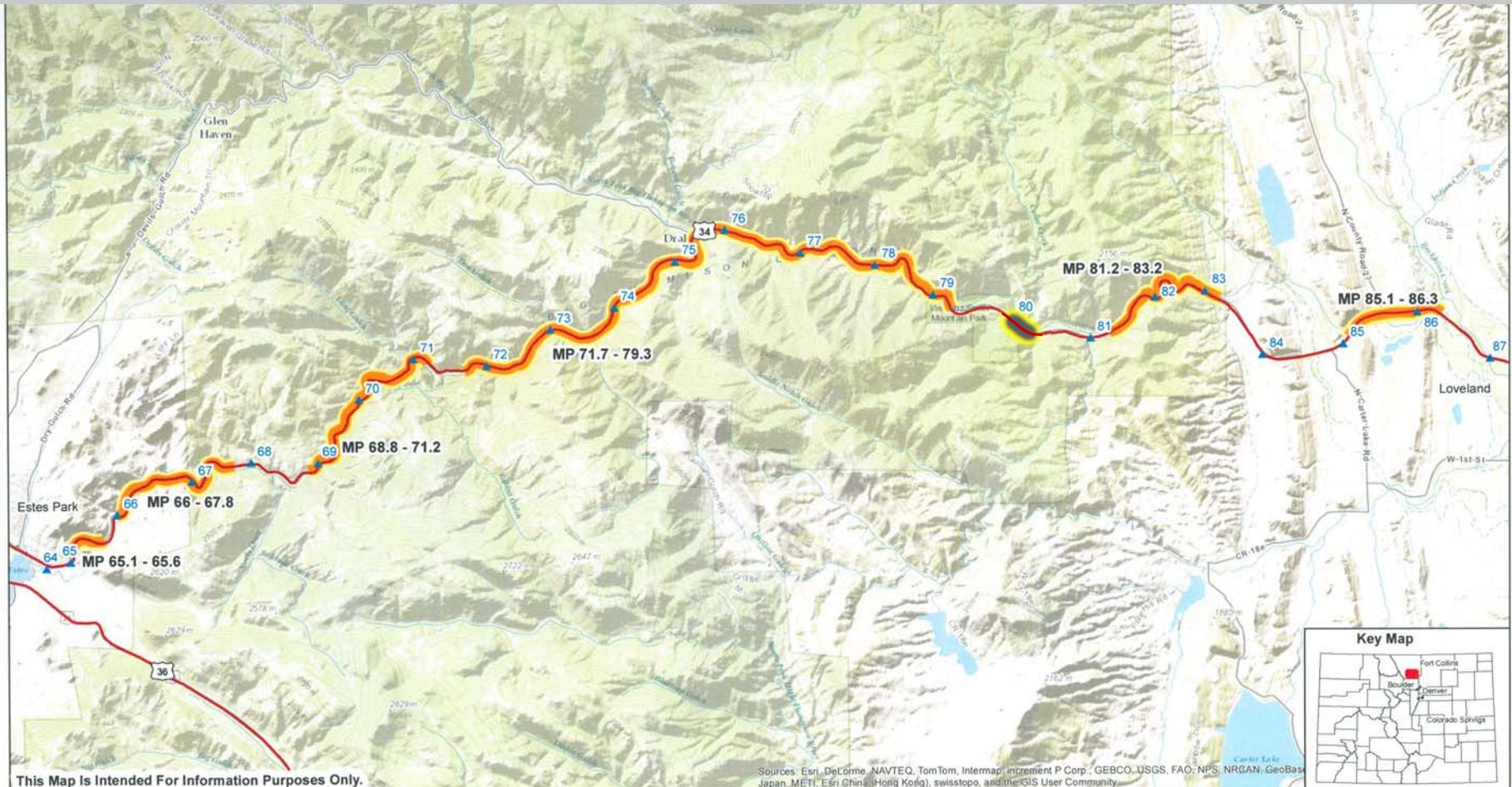
Project Team

- CDOT Resident Engineer: Scott Ellis, P.E.
- CDOT Project Leader: James Usher, P.E.
- Design Consultant: Jacobs Engineering
Project Manager - Velvet Kuesel, P.E.
- Construction Manager: TBD



Project Background - FLOOD 2013

US 34 Big Thompson Canyon Flood Damage



Map Generated : 2/10/2014



US 34

- Damage Sites
- Project Mileposts

Roads

- US Highway
- State and County





Primary Types of Damage

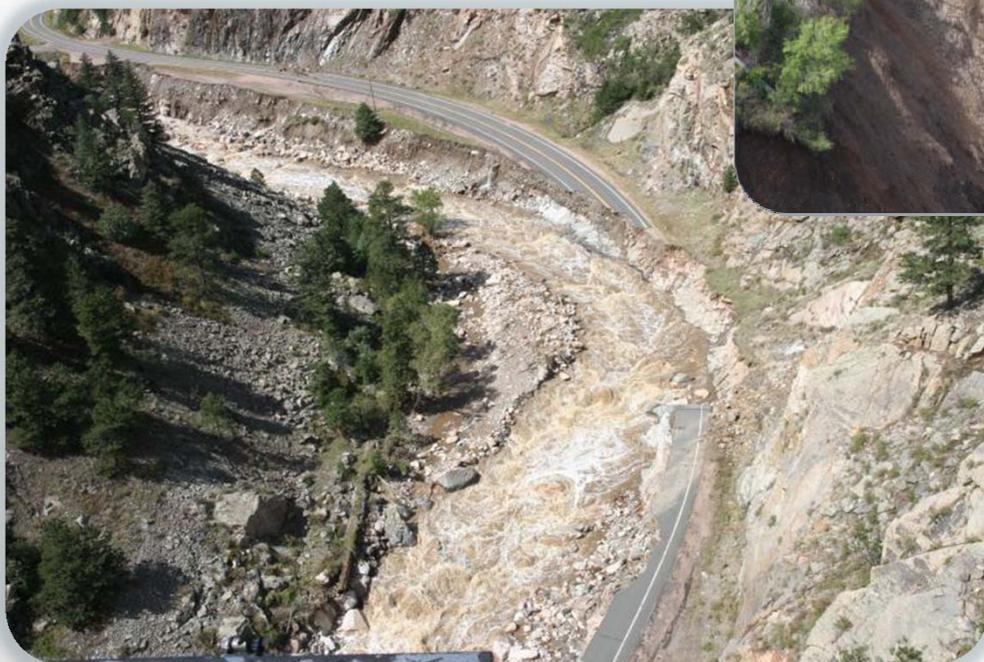
Water and Debris
Overtopping Roadway





Primary Types of Damage

Erosion/Loss of Roadway





Primary Types of Damage



Damage around
Private/County
Bridges



Primary Types of Damage



Landslides and
Rockslide



Primary Types of Damage

Erosion Under and Behind Walls





US 34
Before



US 34
After



Temporary Repairs

- All emergency roadwork considered temporary
- Temporary roadways were not built to normal CDOT Standards or Specifications
- Shoulders are narrower in places and roadway is lower in places
- Replaced damaged guardrail w/ Temp. Concrete Barrier
- River Channel was realigned where necessary to return it to approximate pre-flood location
- All emergency repairs will be evaluated for sufficiency





Permanent Repair Project

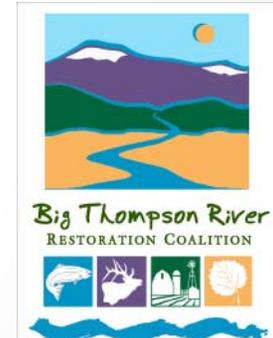
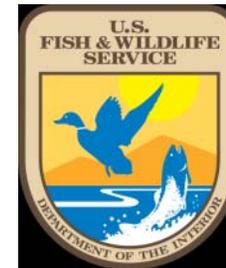
- What has been done so far?
 - Gathering Information
 - Surveying and Mapping
 - Environmental
 - Geotechnical Investigations
 - Hydrology/Hydraulics Analysis
 - Conceptual Design
 - Public Meetings
 - Meetings with Stakeholders





Collaboration Partners

- US Federal Highway Administration
- US Forest Service
- US Fish & Wildlife Service
- US Army Corps of Engineers
- US Bureau of Reclamation
- Larimer County
- City of Loveland
- Town of Estes Park
- Big Thompson River Restoration Coalition
- Colorado Department of Natural Resources
 - Colorado Parks & Wildlife
 - Colorado Water Conservation Board
 - Colorado Division of Water Resources
- Colorado State Historic Preservation Office





Funding Overview

- Project Funding
 - FHWA (Emergency Relief Program)
 - FHWA funds are allocated to the project
 - Fixed Limit of Construction in RFP: \$80M - \$90M
 - Potential additional funding: CDOT and other entities
 - Improvements funded through the Emergency Relief Program must meet the requirements of the Emergency Relief Manual





FHWA Funding Considerations

- \$450 M allocation for overall 2013 Flood recovery
- \$37 M spent on US34 temporary repairs

What permanent repairs are needed to restore the highway in-kind to pre-disaster conditions?

\$50.5 M

Where can updated CDOT standards be applied?

\$120 M to \$160 M

What resiliencies can be introduced to minimize damage from future events?



Project Overview

Damage Assessment Report

- FHWA Emergency Relief Manual
- Determination of Damages
 - Non-Severe
 - Severe
- Determination of Limits





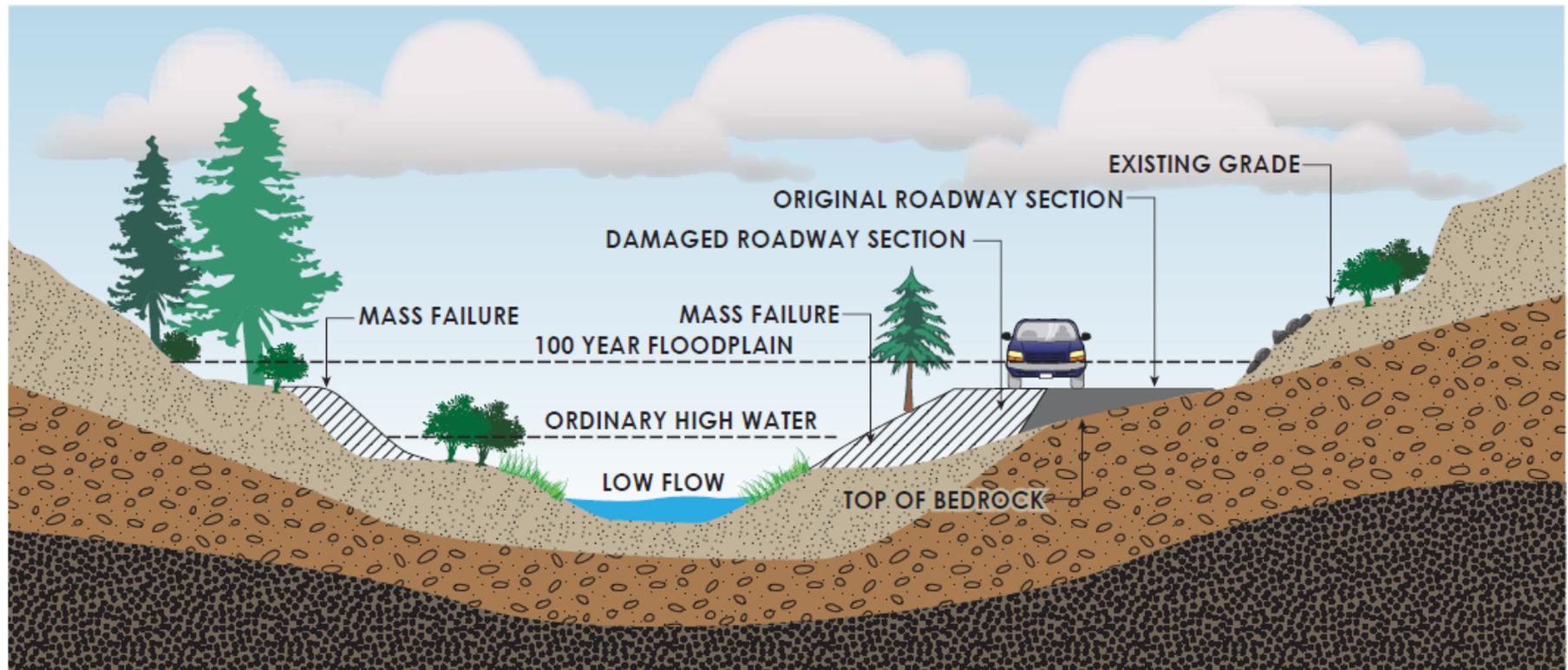
Project Elements

- Fully reconstruct severely damaged roadway
 - Address design standards
 - Re-establish two 12 foot lanes
 - Review and re-establish passing lanes
 - Provide 6 foot shoulders
 - Provide rockfall ditches
 - Provide rockfall protection
- Gap Areas
- River and floodplain
- Public and private accesses



Repair Philosophy

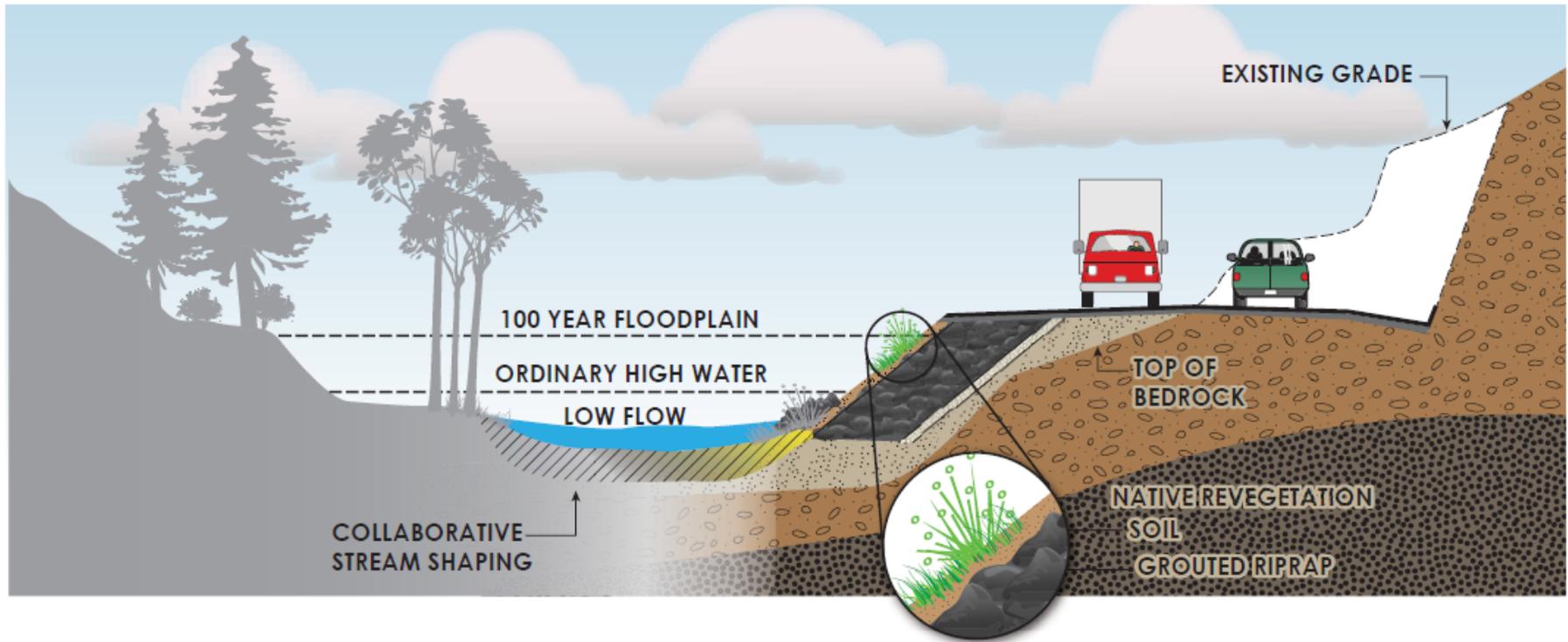
ORIGINAL & DAMAGED TYPICAL SECTION





Repair Philosophy

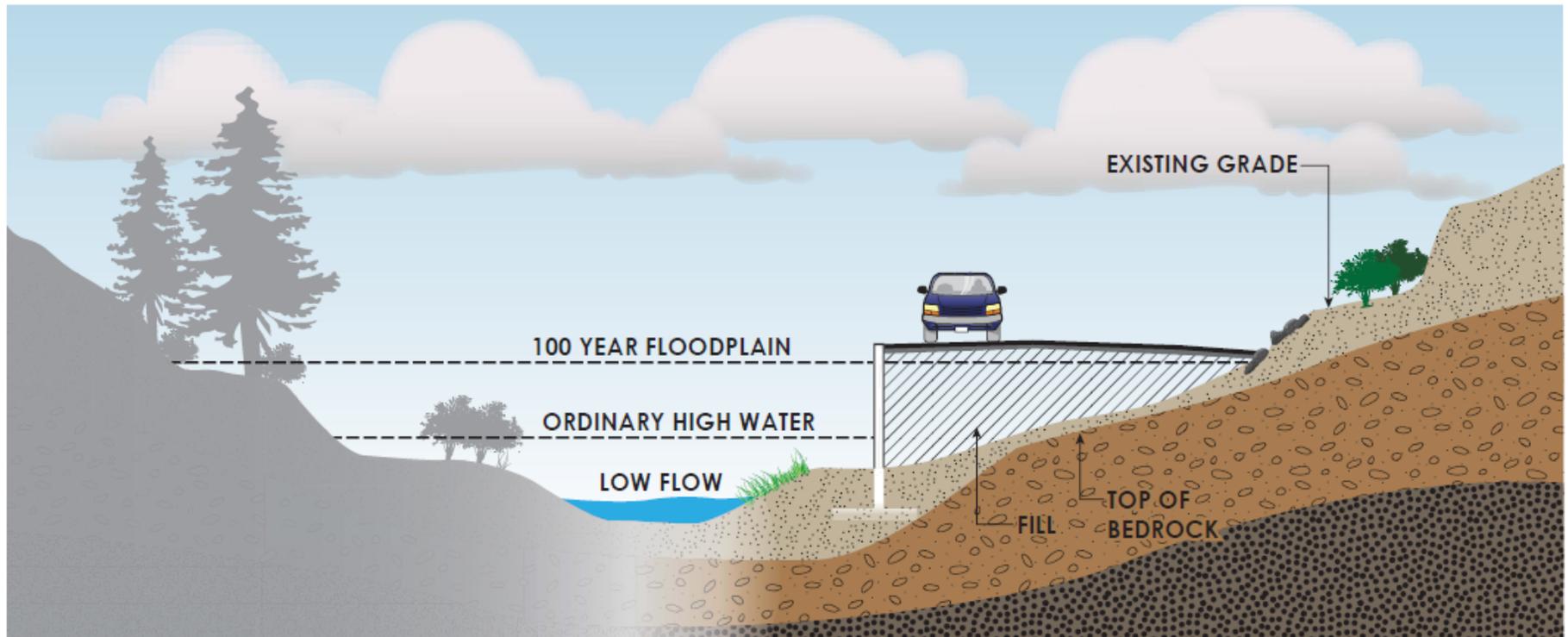
REPAIR CONCEPT





Repair Philosophy

REPAIR CONCEPT





Request for Proposals

- Section 1 - Scope Of Work and Project Information
- Section 2 - CMGC Proposal Requirements and Instructions
- Section 3 -Proposal Content and Evaluation Criteria
- Appendices
 - Appendix A: Preconstruction Roles and Responsibilities Matrix
 - Appendix B: Evaluation and CMGC Management Price Percentage Proposal Forms
 - Appendix C: CMGC Management Price Percentage Proposal Form
 - Appendix D: CDOT Public Information Specifications



Project Goals - Tier 1

1. Build a safe system that meets the needs of the traveling public and stakeholders
2. Build a more resilient roadway in harmony with the river and ecological habitats
3. Coordinate and collaborate with other agencies and stakeholders to maximize mutual benefits, goals and outcomes and to ensure corridor improvements are compatible with one another and don't preclude future investments
4. Complete the roadway project by the end of 2017



Project Goals - Tier 2

5. Maximize system improvements within the allotted project budget
6. Minimize life cycle maintenance costs and provide a quality product
7. Implement an effective public outreach and communication plan
8. Minimize inconvenience to the public and residents along the corridor and maximize safety for workers, residents and the public



1.3 - Major Project Risks

- Schedule
- Phasing/Maintenance of Traffic (MOT)
- Significant rock excavation
- Rockfall mitigation
- Work in Big Thompson River
- Environmental Impacts/clearances
- Permitting
- Scope Increases
- Visual Impacts



1.3 - Coordination and Communication

- US 36 Permanent Repairs complete
- CR 43 from Drake to Estes Park -Completion Winter 2015
- Upper SH 7 Reconstruction
- US 36 and CR 43 may serve as alternative routes during US 34 construction





1.7 - Project Coordination

- Coordination with team
- Co-location during pre-construction phase
 - Base CDOT Plan
 - Options



1.10 - Conceptual Design Documents

- Typical Sections
 - Full Reconstruction
 - Widening and Overlay
 - Narrows
- Conceptual Design Plans
 - September 2013 Post-Flood Imagery
 - August 2014 Post-Emergency Repair Imagery
- Conceptual Design Cross Sections
- Geotechnical - Draft Site Investigation Report



1.13 - Percentage of Work

- CMGC Services during pre-construction phase
 - Proposer must perform not less than 75%
 - Excludes specialized services
- Awarded Construction
 - Proposer must perform not less than 30% nor more than 70%
 - Excludes specialized services



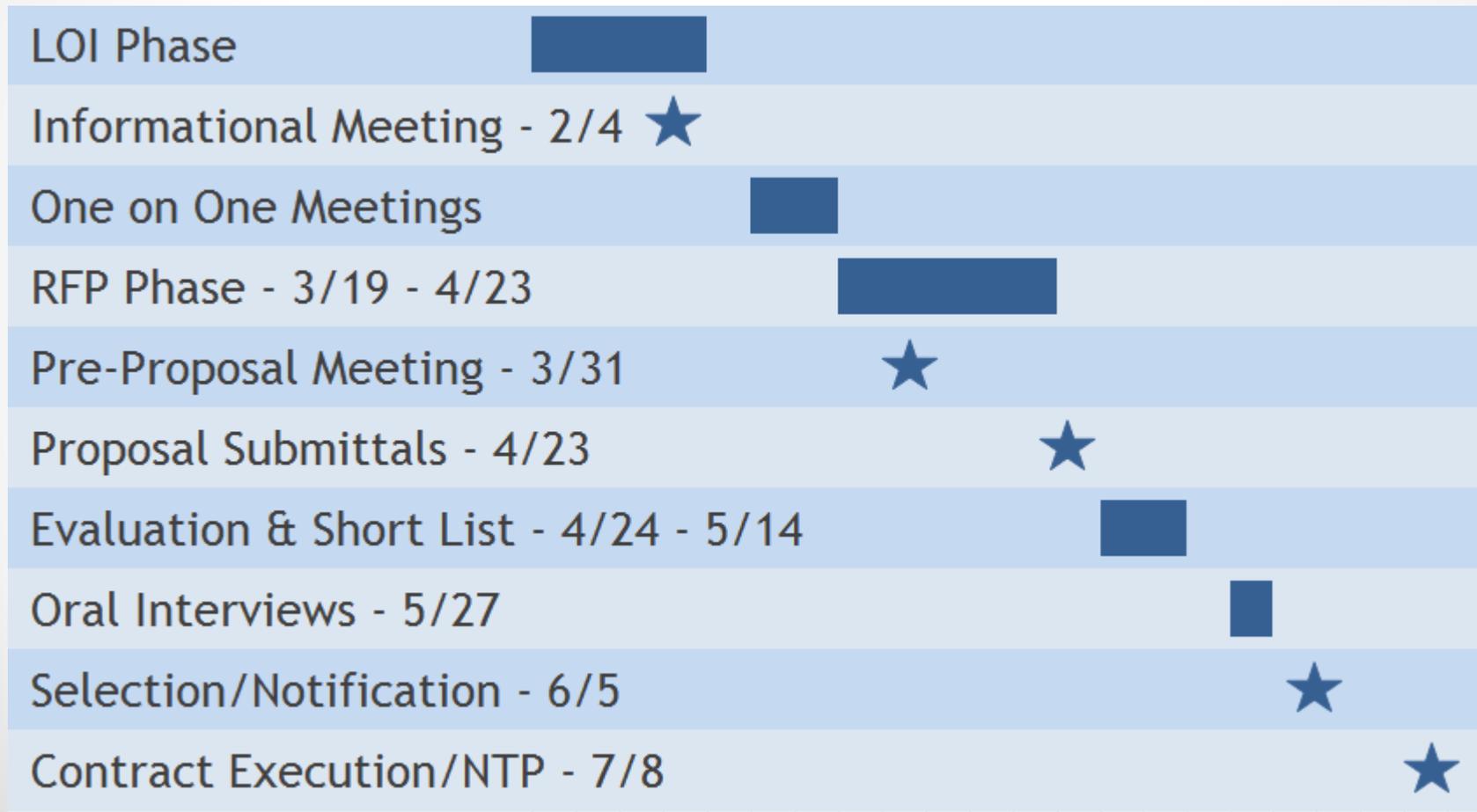
Other RFP Sub-sections

- 1.19 - DBE Program Requirements
 - Pre-construction Services - 0%
 - Awarded Construction - TBD based on each package
- 1.20 - Compensation for CMGC Services
 - \$900,000 lump sum
- 1.21 - Public Information
 - CDOT will be primarily responsible for Public Information during pre-construction phase
 - Contractor in coordination with CDOT will prepare PIP for construction
 - Tier II Public Information Services contract - See Appendix D



Section 2 - Proposal Requirements

- Key Events Schedule and RFP Dates





Section 2 – Proposal Requirements

- 2.5 – Questions and Changes to the RFP
 - CDOT Addendums
 - Proposer Questions and CDOT Responses
- 2.8 – Proposal Submittal – Step 1
 - CDOT Evaluation
 - Shortlisting
- 2.9 – Oral Interview – Step 2
 - Shortlisted Firms
- 2.10 – Sealed CMGC Management Price % – Step 3
 - Submit at Oral Interviews
 - See Appendix C



Section 3 – Proposal Content/Evaluation

- Point Distribution
 - Proposal - 50 points
 - Oral Interview - 35 points
 - CMGC Management Price % - 15 points
- 3.1.1. - Project Management Team
- 3.1.2. - Contractor Capability
- 3.1.3. - Strategic Project Approach
 - A. Preconstruction Approach
 - B. Construction Approach



Section 3 – Proposal Content/Evaluation

- 3.1.4. - Approach to Risk, Schedule, and Price
 - Proposers Evaluate two Major Items of work
 - A. Roadway reconstruction
 - B. Restoration of river channel, floodplain, and features adjacent to highway
 - Discuss following for each Major Item
 - 1. Cost Model Approach
 - 2. Schedule Approach
 - 3. Risk Approach
- 3.1.5. - Project Innovations and Resources

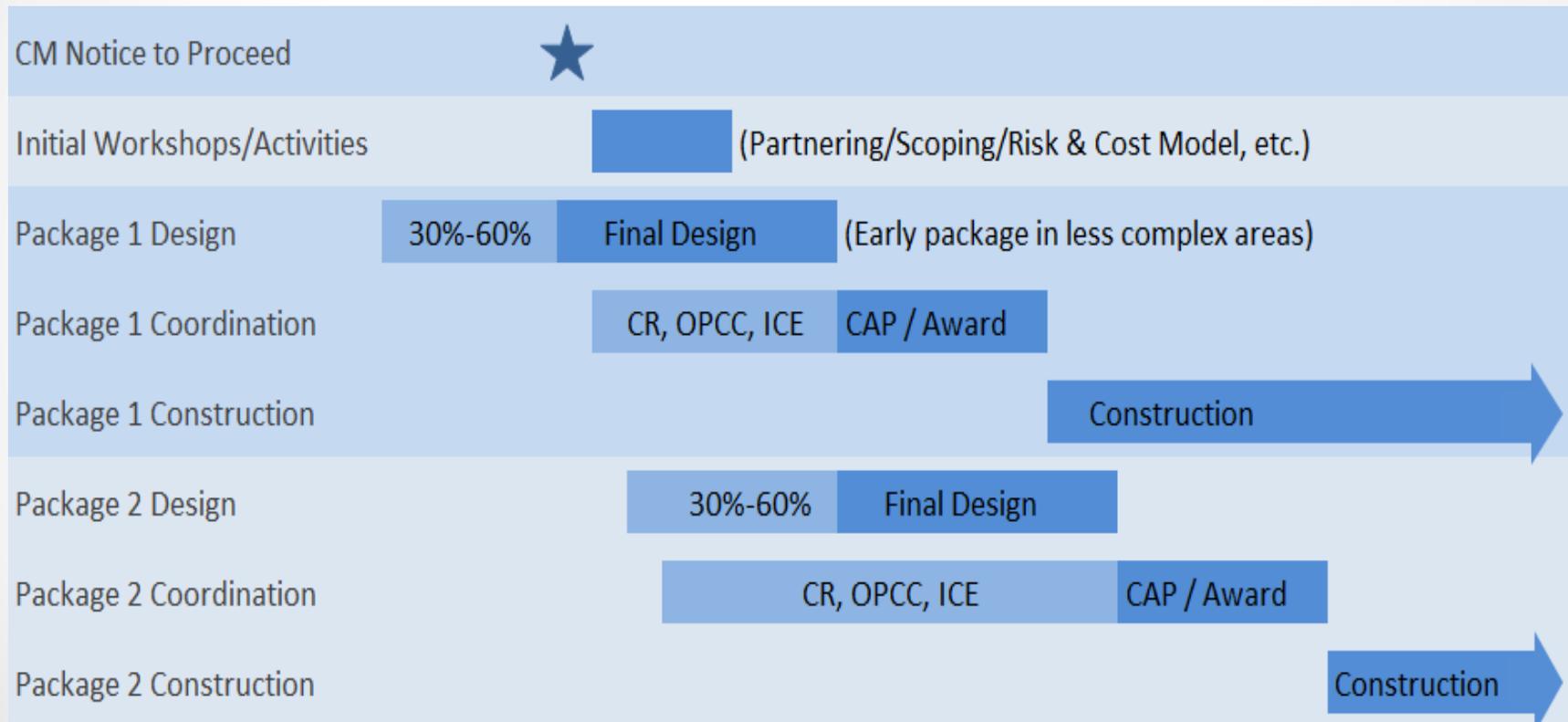


Section 3 – Proposal Content/Evaluation

- 3.2. - Evaluation Criteria for Oral Interviews
 - Interview Format:
 - A. Short Presentation (10 Points)
 - B. Team Challenge (15 Points)
 - C. Q & A Session with the Selection Panel (10 Points)



CMGC Pre-Construction Process





Contact Information

Website:

<https://www.codot.gov/projects/floodrelatedprojects/us-34-big-thompson-canyon-1>

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QUESTIONS?