

Gold Run Community Meeting

Gold Run Rd. & Gold Run Salina Junction to Summerville

December 8, 2015

Meeting Format:

- **Welcome & Introductions**
- **County Presentation**
- **Group forum Q&A session**
- **Open House**



Introduction – Purpose

Why are we here today?

➔ *To Share the Current Design Progress and obtain community feedback*

- **Two separate but related projects:**
 1. **Permanent roadway reconstruction project**
 2. **Habitat restoration project**

Background – Project Limits



- **Roadway repairs Gold Run Rd. from the Salina Junction project to (~ 173 Gold Run Rd.) to 1628 Gold Run Rd.**
- **Gold Run Habitat Restoration (partly with roadway, partly separate)**

Background – Project Goals

- ✓ **Permanent reconstruction of the damaged infrastructure**
- ✓ **Respect and reflect the community character & input**
- ✓ **Increase safety and resiliency where available**
- ✓ **Implement design consistent with Watershed Master Plan**
- ✓ **Minimize environmental impacts through balanced design**
- ✓ **Minimize impacts to ROW, private property, & the community**



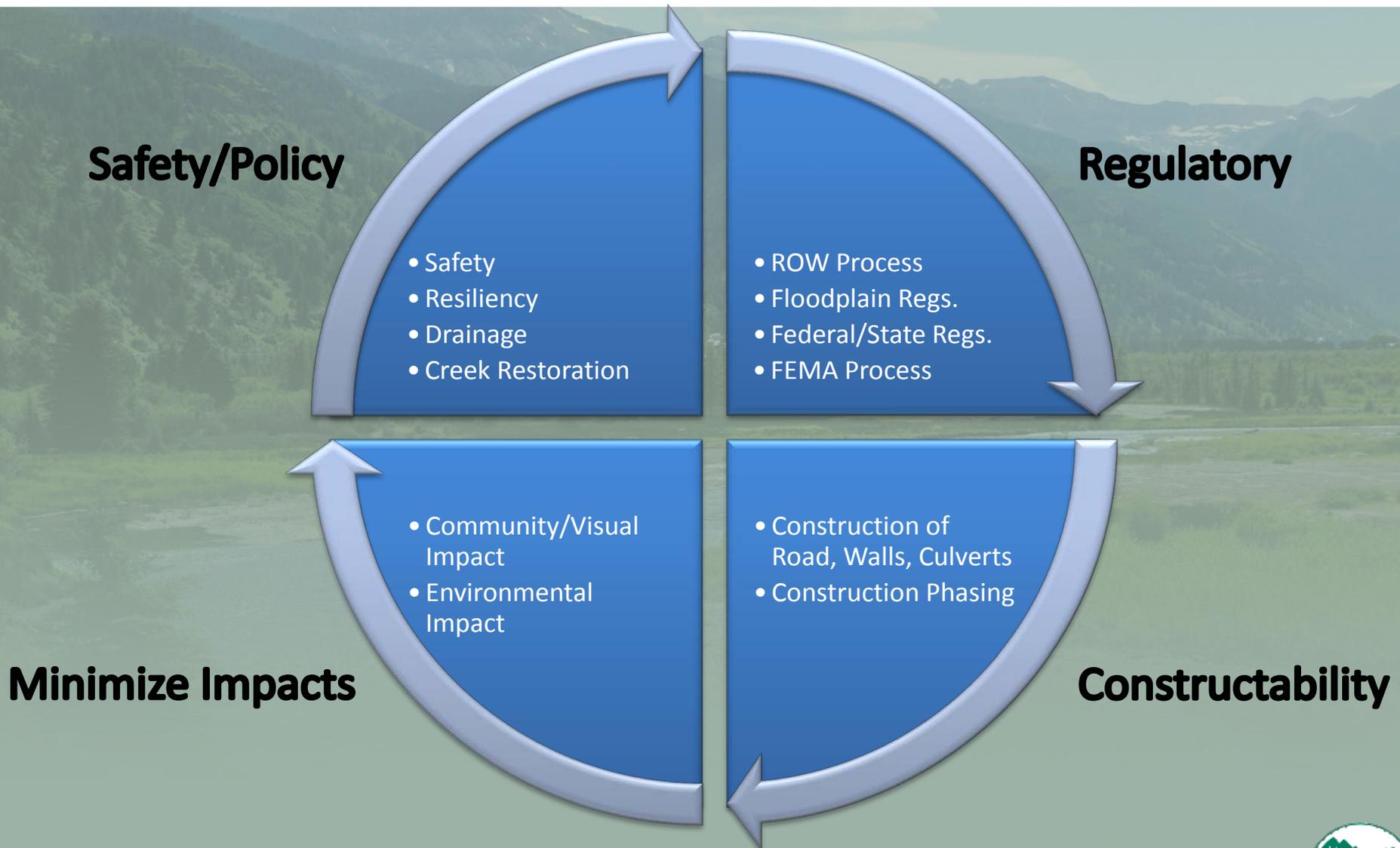
Background – Previous Meetings

From earlier community meetings

- **Respect the community character**
- **Keep reconstruction to a minimum, don't urbanize**
- **Slow down traffic**
- **Minimize cuts & walls / make visually appealing**
- **Concern about tree, vegetation, & wildlife impacts**
- **Concern about impacts to private property (access, flooding, private improvements, visual)**
- **Improve drainage structures to avoid clogging and roadway washout**
- **Fix roadway surfaces**
- **Improve creek health and stability**



Project Development – Driving Factors



Project Development – Roadway

Summary of the Road Project:

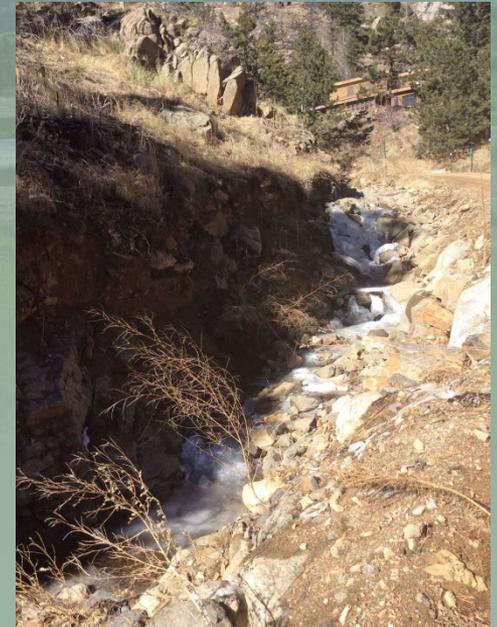
- 30% Design level
- Funded primarily through FEMA
- Primary focus
 - Permanent, resilient solutions with minimal impacts



Project Development – Creek

Summary of the Creek Project:

- **15% Design level**
- **~ 85% of the creek is constructed with roadway funded primarily through FEMA**
- **~ 15% of the creek is constructed away from roadway not funded**
- **Primary focus**
 - **Increase health and stability with minimal impacts**



Anticipated Project Schedule

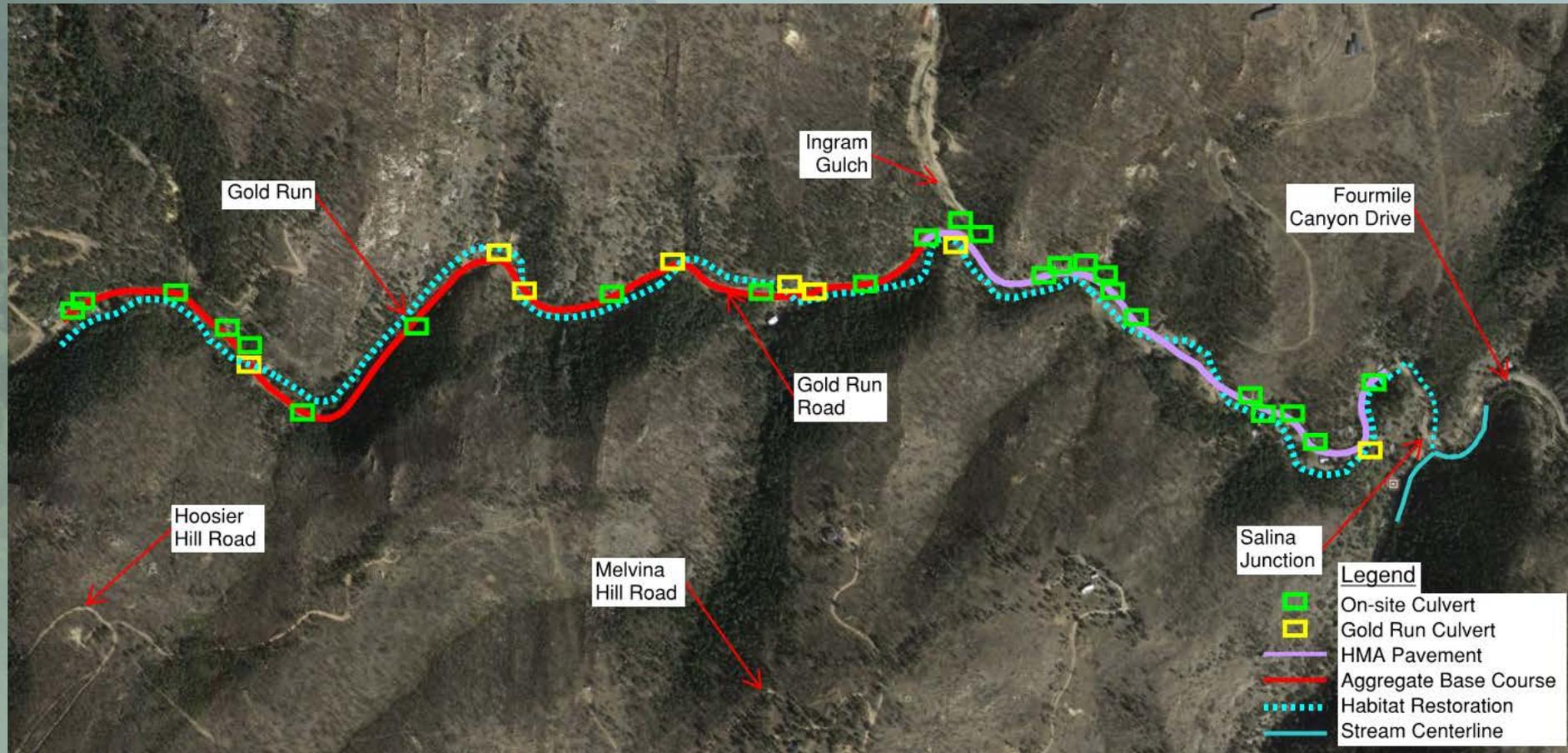
Road project:

- **Final Design Completed – Spring 2016**
 - **60% & 90% designs posted to website**
- **Environmental, ROW, and FEMA Clearances – Spring 2016**
- **Begin Construction – Summer/Fall 2016**

Creek project:

- **Final 30% Design Completed – Spring 2016**
- **Begin Construction – Pending Funding**

Road Project – Limits of Work



Road Project – Basics

Primary features of the project:

- **Reconstructed roadway surfacing**
 - **Road width to match pre-flood width (generally 18' to 20')**
 - **Road alignment very similar to pre-flood and/or current**
 - **Salina to 637 (~0.6 mi) – Asphalt**
 - **637 to 1628 (~0.9 mi) – Gravel**
- **Grading Enhancements**
 - **4 retaining walls (1 stand-alone)**
 - **No rock face cuts**



Road Project – Basics

Primary features of the project:

- **Improved drainage & Safety**
 - 24 proposed roadside drainage culverts
 - 4 public stream crossing replacements
 - 4 private stream crossing replacements
- **Safety Enhancements**
 - Guardrails as needed for safety
 - Cross-slopes (cambers), curves, sight distance, etc.
 - Debris racks and drainage control at Ingram Gulch
- **Habitat Restoration**

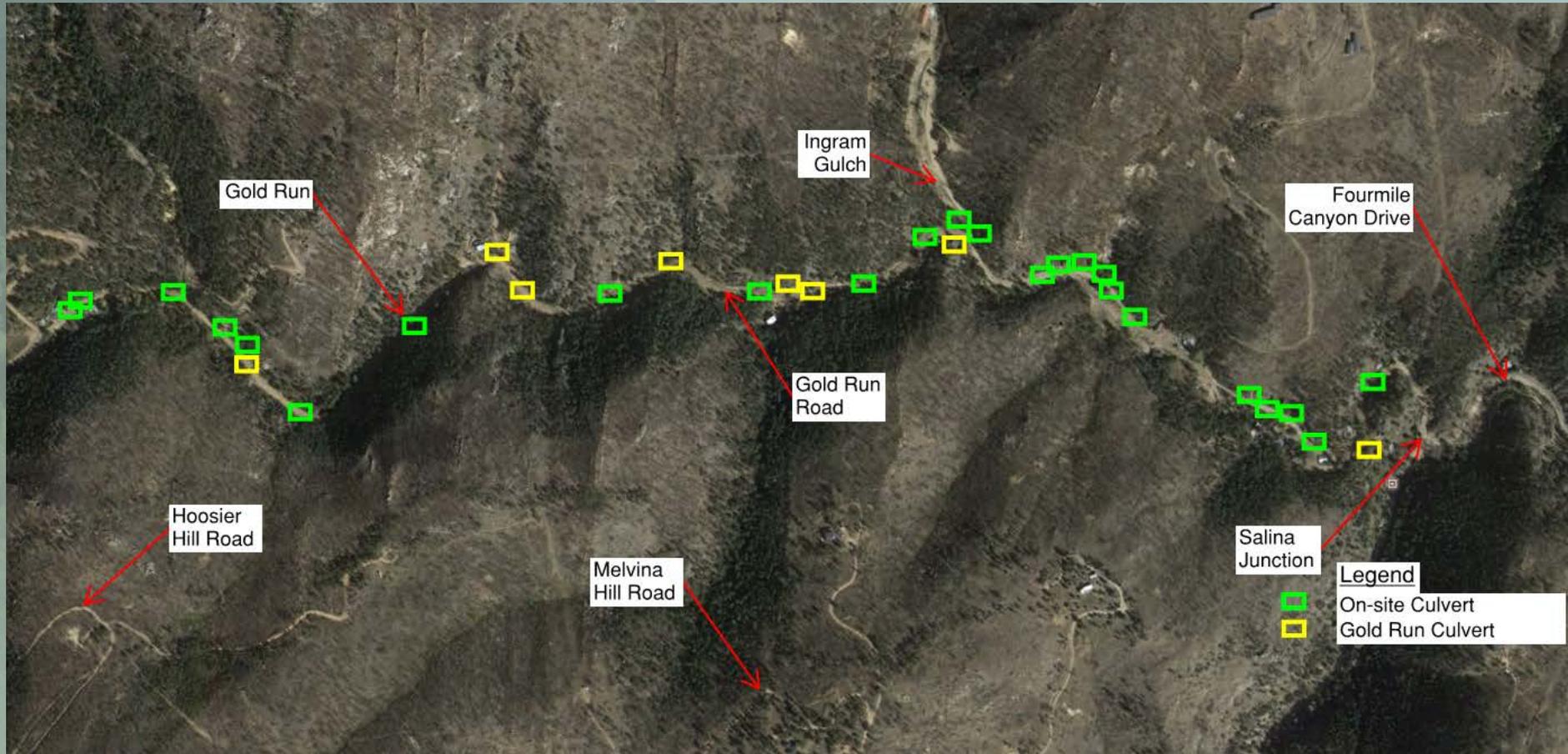


Road Project – Limits of Work



- **Salina to 600 (~0.6 mi) - Asphalt**
- **600 to 1628 (~0.9 mi) – Gravel**

Road Project – Limits of Work



- **24 local drainage culverts**
- **8 Gold Run culverts**
- **Ingram Gulch**

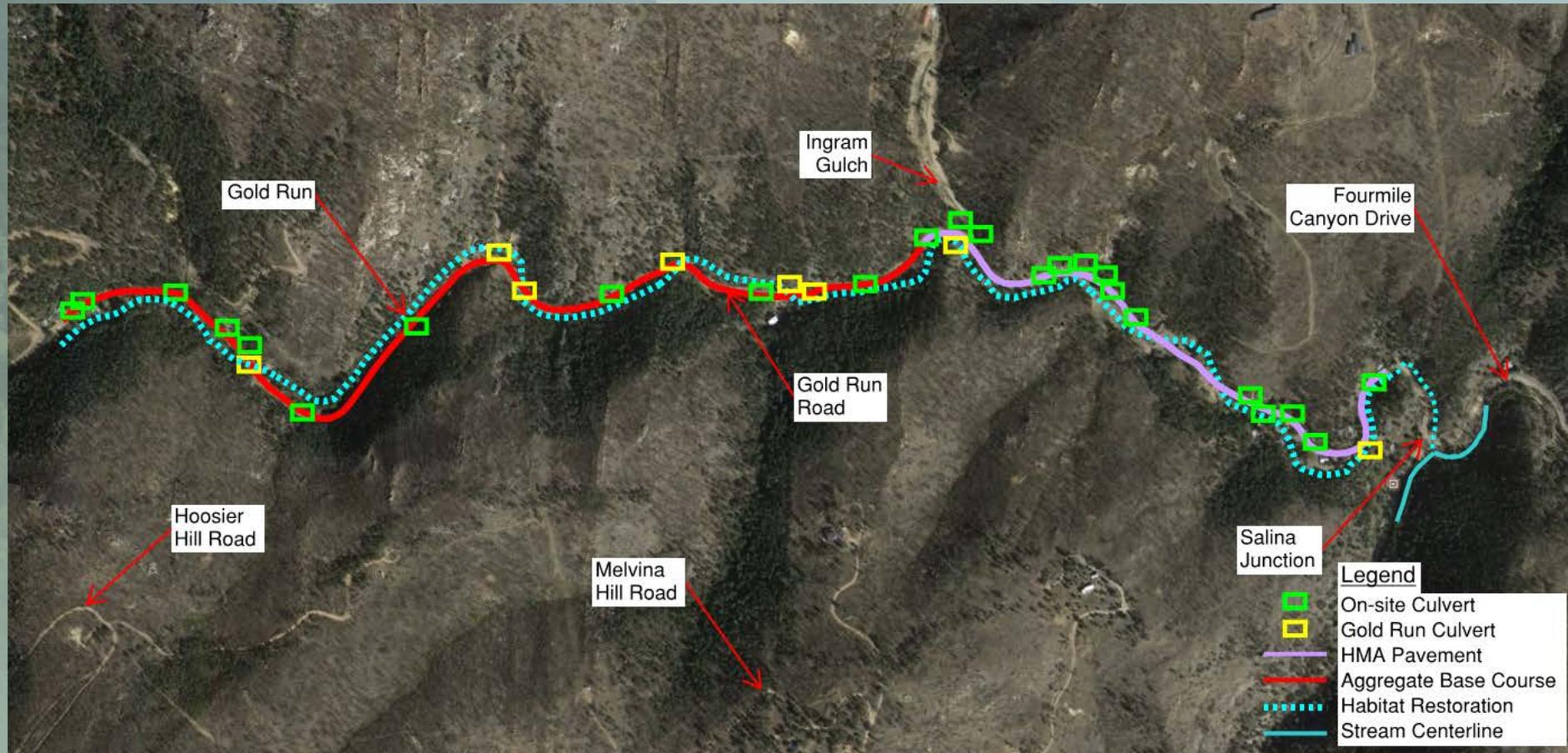
Road Project – Limits of Work



Habitat Restoration

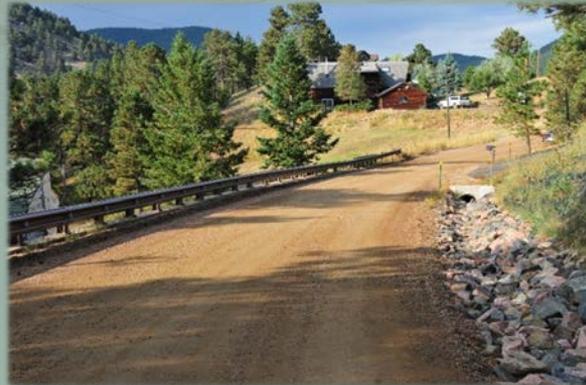
- **At strategic locations to support bank and road stability**
- **Where slope, bedrock, and valley width allow to increase diversity and abundance of habitat**

Road Project – Limits of Work



Road Project – Aesthetics

Where applicable, aesthetics can be implemented



Creek Project – Basics



Gold Run Project Extents

- ▲ Mile Markers
- Habitat Restoration Reaches
- Gold Run
- Fourmile Creek
- Proposed Road Alignment

Michael Baker
INTERNATIONAL



December 7th, 2015



Creek Project – Basics

What is Stream Restoration?

- Design of a natural stable channel in current watershed setting
- Self Regulating
- Establishes the physical, chemical, biological functions

How do we do Creek Restoration?

- Quantify the degree of impairment
- Formulate design based on scientific methods
- Restore biology/ecology/geomorphology/hydrology/geometry based on quantifiable metrics



Creek Project – Proposed Design

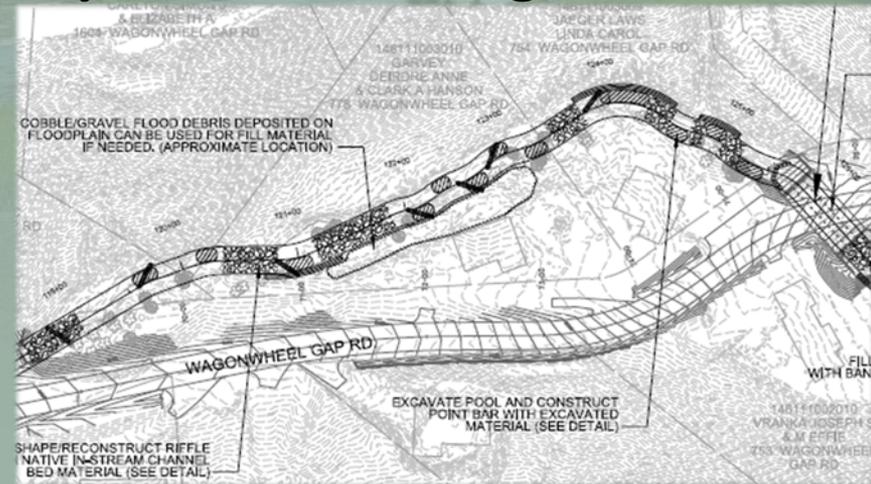
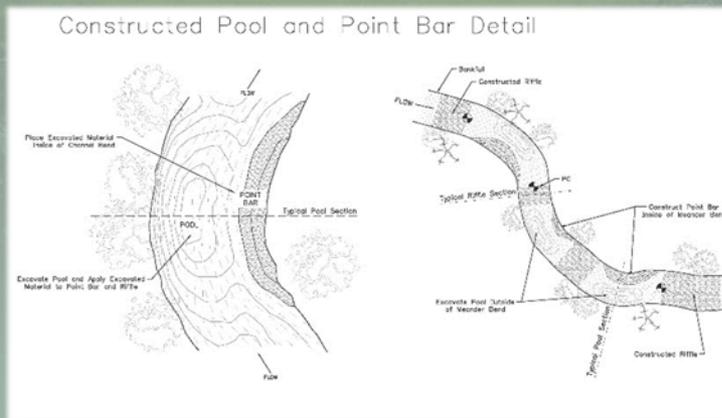
Habitat Restoration

- **Increasing the diversity and abundance of niches and functions (given the physical constraints of the project)**
- **Revegetation: good for stream stability, terrestrial and aquatic food webs, and aesthetics**
- **Boulder clusters, root wads, log vanes, toe wood: provide refuge, cover, and forage sites for fish and other organisms**
- **Pool features: Same as above as well as geomorphic stability and aesthetics**

Creek Project – Proposed Design

Design Process and Results

- Identify Constraints
- Layout channel section, alignment, and profile
 - We want your input!
- Modify using design parameters
- Verify with sediment transport & hydraulic modeling



Creek Project – Implementation

Implementation Process

- **Probably Design Build Construction**
 - **Creek segments required to be constructed w/ roadway funded by FEMA**
 - **Other segments can be funded w/ different mechanisms**
- **Ideal construction times - fall through spring (if/when funded)**
- **In context with native stream and watershed setting**



Community Discussion

Questions?

Community Discussion

Open House

Opportunity to ask questions and provide input on designs, such as:

- Are there known **problem areas** or **additional impacts** we need to consider – e.g., drainage, culverts, ROW, road safety, driveway access, grading?
- Do you have **visual** or **other preferences** we should try to incorporate to reflect the future you envision for the area – e.g., trees, retaining walls, other historic considerations, parking spots lost during flood?

Community Discussion

Questions and Feedback

Upper Fourmile Canyon & Gold Run Road - Flood Recovery Construction

<http://www.bouldercounty.org/roads/pages/upperfourmilecanyon.aspx>

Fourmile Creek Recovery and Restoration

<http://www.bouldercounty.org/flood/creekrestoration/pages/fourmilecreek.aspx>

Contact us with feedback or questions or to be added to the community list serve:

Andrew Barth, Boulder County: 303-441-1032 - abarth@bouldercounty.org

Fourmile Creek Watershed Coalition: Maya MacHamer, 303-449-3333,

fourmilewatershed@gmail.com

We appreciate feedback by December 30, 2015