Jamestown Community Meeting

January 18, 2014
Tonight’s Agenda

• Announcements
• Volunteer Coordination Update
• Upcoming Fundraising Events
• Environmental Assessment
• Stream Corridor Master Plan – Phase II (EWP Engineering & Design)
• Engineering for Distribution System and Roads & Bridges
Volunteer Coordination Update

• Volunteer Work Day
  When: Saturday Feb. 22nd, 9am-2pm (alternate date March 1st)
  Help: 50+ volunteers to help remove debris, moving wood piles, moving assistance, etc.
  How: Please contact Nina ASAP to sign up for volunteers

• Christian Aid Ministries
  When: Now through next week
  Help: Interior repairs, mold mitigation, replacing floors, dry wall, etc.
        Property owner will pay for all material costs
  How: Please contact Nina ASAP

• Mennonite Disaster Services
  Update: Continuing to work with MDS to secure volunteers for this Spring, Summer and Fall
  Help: Repairs and rebuilds
Fundraising Event

• Flood of Love
  
  Hosted: Balarat Outdoor Education (Denver Public Schools)
  When: Saturday, February 22, 6pm – 11pm
  Where: Sherman Street Event Center
         1845 Sherman Ave. Denver, CO

An event at the gorgeous Sherman street convention center in downtown Denver to raise money for the residents of Jamestown, Colorado. Includes an Italian buffet, exhibition cooking, silent auction, games and bluegrass music. There will be a cash bar for libations and lots of big mountain fun.

Ticket donation $11.50, online at:
www.rebuildjamestownco.org
Fundraising Event

- Shine On Jamestown!
  
  Hosted: Pick Up Sticks Marimba Band
  When: March 15, 7pm – close
  Where: Shine Restaurant & Gathering Place
  2027 13th Street, Boulder, CO


Ticket donation $25, online at: www.rebuildjamestownco.org
World Renew (green shirts)

Need help with Rebuilding or Repairing your home? Paying your mortgage? Replacing personal property? Other needs?

Who:  World Renew is a national disaster response agency working with the Long-Term Flood Recovery Group

What:  Volunteers gather information and connect people with resources. They meet 1-on-1 to determine current and future need.

When:  February 10-22

Where:  5 Walk-In Centers

South Boulder
St. Paul’s United Methodist Church – 4215 Grinnell Ave

Central Boulder
Altona Grange
9386 N 39th Street

North Boulder
Boulder Friends Meeting
1825 Upland

Longmont
First Lutheran Church
803 3rd Avenue

Lyons
Walt Self Senior Center
335 Railroad Avenue, Building B
Recovery Updates

- HMGP Buy-Out Program: Next Steps

  Mar 3: Guidance from Town Attorney for Town Board
  Motion to Approve Requested Buy-Outs

  Mar 6: Notification Letters Sent or Emailed

  Mar 19: HMGP Buy-Out Workshop with Lidos
  • Signing of Declaration of Release (of information)
  • Notice of Voluntary Interest
  • Project Implementation Timeline
  • Q&A with Lidos

*** Please email me by February 27 if you are interested in a buy-out ***
Mayor@jamestownco.org

Property owners are not obligated to participate in the buy-out. You can change your mind up until the actual transaction.
Recovery Updates

- Private Property Debris Removal (PPDR)
  Initial meeting with the Lidos team last week
  Next: Kickoff Meeting with Private Property Owners - TBD

- State Cost-Share
  Letter received from Governor’s Office – recommendation from Cost-Share Committee is 22.5% (leaving 2.5% local cost-share)
  Next: Requires approval of State Legislature – TBD
  Meeting with Commissioners and Governor’s Office Friday
Floodplain Development Timeline

11/5 Conceptual

- Stream Corridor Master Plan

1/21 Technical

- EWP Engineering

2/28 Construction

- EWP Construction

- Implementation of Protective Measures
- Final Floodplain Regulations

Post-Flood Floodplain Elevation

Lift Building Permit Moratorium

Planned Floodplain Elevation

LOMR Submission
# Programmatic Environmental Assessment: Schedule

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<th>Activity</th>
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<td>Public Notice of Intent posted to Jamestown website under Announcements</td>
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<td>Sun, Jan 26</td>
<td>Cultural Resource field work</td>
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<td>Fri, Jan 31</td>
<td>Interagency coordination</td>
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<td>Thurs, Feb 13</td>
<td>Draft PEA for internal review</td>
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<td>Tues, Feb 18</td>
<td>CWCB/NRCS review of Draft PEA</td>
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<td>Tues, Feb 18</td>
<td>Draft PEA for public review</td>
<td>In Progress</td>
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<td>Sun, Feb 23</td>
<td>Public notice period ends</td>
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<td>Tue, Feb 25</td>
<td>Town Board Review</td>
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<td>Thu, Feb 27</td>
<td>Public comments addressed</td>
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<tr>
<td>Fri, Feb 28</td>
<td>Final PEA</td>
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Programmatic Environmental Assessment (PEA)

- Every federally funded project has to be reviewed for compliance with the National Environmental Policy Act (NEPA)
- 2013 Sandy Recovery Improvement Act: established a new approach to the Federal Environmental and Historic Preservation (EHP) process called the Unified Federal Review Process
  - Improves coordination and consistency of Federal EHP reviews for disaster recovery projects
- The PEA identifies possible environmental issues and related mitigation measures associated with the Town’s recovery and hazard mitigation actions.
  - Agency reviews have resulted in minimal impacts thus far
  - Will benefit Jamestown’s recovery process by expediting disaster recovery project review and implementation
- Draft PEA available now for public review on Jamestown website
## Emergency Watershed Protection - Schedule

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<td>Fri, Feb 28</td>
<td>Bids due at 3pm, Open bids at 4pm</td>
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<td>Sat, Mar 1</td>
<td>Bids reviewed, matrix prepared for Town Board and OEM, CWCB</td>
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<td>Tue, Mar 4</td>
<td>Contract award (financial commitment req’d)</td>
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<td>Tue, Mar 11</td>
<td>End of one-week mobilization</td>
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<td>Tue, Mar 11</td>
<td>USACE permits required</td>
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<td>Fri, Apr 11</td>
<td>End of construction window (10 days of multi-crew work assumed)</td>
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Town of Jamestown
Review of EWP Program
Preliminary Designs with Property Owners

Presented: February 7 and 8, 2014
Agenda

• Scope of the NRCS EWP Program
• Schedule
• Design Concepts – Key Themes
• Overview of key restoration/mitigation themes
• Discussion of key themes as they apply to each reach
• Design Tools and Specifics
• Scope of EWP
  – Restore pre-flood conveyance to both the channel and the floodplain
  – Protect private property
  – Protect natural resources
    • Water quality
      – Limit erosion
      – Stabilize the channel
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Key Themes

Channel Stability – Grade Control Structures
Stream Gradient at Confluence

Confluence of James and Little James Creek

Sharp Change in Gradient Upstream of Confluence

Reach 6
Reach 5

Distance (m)
Stream Elevation (meters)
Stream Slope (%)
Key Themes

Channel Stability – Grade Control Structures
Stream Gradient Example at Main St. Bridge

- **Reach 4**: Perched Channel in Reach 4
- **Reach 5**: Change in Slope Below Bridge

**Main St. Bridge**

- Slight Drop Transitions into Steeper Reach

**Graph Details**:
- **Distance (m)**: 300 to 550
- **Stream Slope (%)**: 0 to 0.04
- **Elevation**: Various points marked from 2090 to 2120
- **Reach Divisions**: Not clearly marked on the graph
- **30 Cell Running Avg Slope**: Line indicating the average slope change

Insert image and diagram with specific annotations and data points.
Key Themes

Channel Stability – Lateral Protection – Options
Key Themes

Constrictions
Key Themes - Reach 1

- Bank Protection
- Debris Capture
- Channel Stability/Energy Dissipation
Key Themes - Reach 2

- Bank Protection
- Drop Structures
Key Themes - Reach 3

- Drop Structures
- Bank Protection/Lateral Control
- Option 2
Key Themes - Reach 4

- Berm
- Constriction
- Bank Protection
- Restore Capacity
Key Themes - Reach 5 - Lower

- Bank Protection – Toe armor
- Restore Capacity
Key Themes - Reach 5 - Upper

- Debris Capture
- Debris Deflector
- Soil Rip Rap
- Restore Conveyance
- Grade Control
- Constriction
Key Themes - Reach 7

Upper Ward Street Re-alignment

Channel Re-alignment
Bank Armoring
Berm
Bank Protection and elevated road
Drop Structures
Key Themes - Gillespie Run
Key Themes – Howlett Gulch
Key Themes – Howlett Gulch
Example Plan & Profile Sheets – Reach 4
Example Plan & Profile Sheets – Reach 5L
Design Tools

• Standard modeling programs
  – Widely accepted

• NRCS tools and stream design methods
  – Familiar to AMEC staff
  – Expedited NRCS review
  – Examples:
    • Design of stable channels
    • Rock and stone sizing
    • Root wads
Meyer-Peter and Mueller Limiting Slope

Note: fill in values that are underlined, calculated results are in bold red

Note: The equilibrium slope of a channel is defined as the slope at which the sediment transport capacity of the reach is in balance with the sediment transported into the reach. If the sediment transport capacity were to exceed the sediment supply, channel bed degradation will occur until the channel bed slope is reduced so much that the boundary shear stress is less than what is needed to mobilize the bed material an armor layer forms. This new, lower slope may be called the equilibrium slope, \( S_{eq} \).

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<td>Equilibrium slope</td>
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Note: Review MPM applicability

Potential Drop

Existing Slope = 0.007
Horizontal Distance in Reach = 1000 ft
Amount of Drop in Reach = 3.84 ft

Existing bed slope \( S_{eq} \)
Potential Drop
Horizontal Distance in Reach for stable point
Design Tools

Original Section from Lidar
• Section adjusted with Field Survey
### Design calculations

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<th>River/Reach</th>
<th>Design Reach</th>
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<td>Reach 21</td>
<td>691.60</td>
<td>3.04</td>
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**Geometries - Reaches 2B, 4 and 5A**

<table>
<thead>
<tr>
<th>Point</th>
<th>Left</th>
<th>Right</th>
<th>Top of Flood</th>
<th>Top of Bank</th>
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<tbody>
<tr>
<td></td>
<td>Flood + 1.25</td>
<td>Flood + 1.25</td>
<td>3.00</td>
<td>2.1:1 slope at</td>
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<tr>
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<td>Flood + 1.25</td>
<td>Flood + 1.25</td>
<td>3.00</td>
<td>2.1:1 slope at</td>
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</table>
• Apply design to digital model
- Assess design
GENERAL NOTES:
1. Contractor shall install a measurable roughness channel with at least 8 step pools between STA 4+00 and STA 6+00. Install step pools per the above details and rock gradation with additional direction from Engineer in Feeds.
2. Step pool structure shall span the entire channel width, and upstream boundaries shall be left as the bank.
3. Rock reinforcement rock should be installed on each step pool structure and extend a minimum of 5' beyond the upstream and downstream boundaries.
4. Contractor shall avoid damage to and lost material during excavation throughout the project to ensure that the roughened channel and step pools
5. After all steps and pools have been placed, the entire structure shall be backfilled with 1 cubic yard of C 78 fill to seal the channel.
6. In general, step pool installation should resemble natural roughness channel and step pools located further upstream from limits of disturbance.
7. Plan 1 mil bar with no banks for every 10 square feet of bank ground disturbance. See landscape plans for planting notes and details.
Upper James – Funding TBD?

• Met with NRCS and Boulder County for initial approval to complete assessment and to discuss the potential cost-share
• Waiting for funding approval from NRCS
### Next Steps

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Status</th>
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<tbody>
<tr>
<td>Tue, Feb 18</td>
<td>End of 2-week period to complete design</td>
<td>In Progress</td>
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<tr>
<td>Wed, Feb 19</td>
<td>Meeting with private property owners’ to present, discuss feedback, and obtain approval</td>
<td>Scheduled</td>
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<tr>
<td>Thur, Feb 20</td>
<td>Meeting with CWCB, NRCS, USACE, OEM, CWCB to present, discuss feedback, and obtain approval</td>
<td>Scheduled</td>
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<tr>
<td>Fri, Feb 21</td>
<td>RFP distributed</td>
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<tr>
<td>Sat, Feb 22</td>
<td>Pre-bid Meeting</td>
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<td>Fri, Feb 28</td>
<td>Bids due at 3pm, Open bids at 4pm</td>
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<tr>
<td>Sat, Mar 1</td>
<td>Bids reviewed, matrix prepared for Town Board and OEM, CWCB</td>
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<tr>
<td>Tue, Mar 4</td>
<td>Contract award (financial commitment req’d)</td>
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<tr>
<td>Tue, Mar 11</td>
<td>End of one-week mobilization</td>
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<tr>
<td>Tue, Mar 11</td>
<td>USACE permits required</td>
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<tr>
<td>Fri, Apr 11</td>
<td>End of construction window (10 days of multi-crew work assumed)</td>
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<tr>
<td>Fri, Apr 18</td>
<td>End of one-week demobilization</td>
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Questions?
Distribution System and Roads & Bridges: Engineering Update

• IGA with Boulder County
• Contract awarded to AMEC Environment & Infrastructure (Denver) based on qualifications
• Negotiating contract terms and refining scope of work
• Schedule overview next meeting
Questions?