Harvey Jones Channel (HJC) Improvements

Public Meeting
December 12, 2012

PLEASE SIGN IN
HJC Improvements Project

• Welcome / Introductions:
  – SSCAFCA Staff
    • Dave Gatterman, P.E., Project Manager
    • Chuck Thomas, P.E., Executive Engineer
  – Bohannan Huston, Inc. (BHI) Staff
    • Howard Stone, P.E., Principal
    • Scott Armstrong, P.E., Project Manager
    • Denise Weston, Project Planner
    • Marron and Associates, Environmental Consultant
  – VOC Mayor and Council members
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• Setting
  – The HJC is the bottom of the Montoyas Arroyo Watershed Park

![Montoyas Watershed Park Map](image-url)
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• Montoyas Watershed Park statistics
  – Two major arroyos, Montoyas and Lomitas Negras
  – Runs thru unincorporated Sandoval County, the City of Rio Rancho, and the Village of Corrales
  – Watershed area is ~ 60 square miles
  – Approximately 75% of this watershed park is undeveloped
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- Where exactly is the project?

City of Rio Rancho
Harvey Jones Channel
Village of Corrales
Sandia Pueblo
Project Location
NM448
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• Why are we proposing this project?
  – 2006
  – 2010
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• Project Objectives / Goals
  – Hydraulic considerations
    • Increase capacity under NM448 (Corrales Rd.)
    • Move hydraulic jump downstream of bridge
  – Sediment from upstream reduces hydraulic capacity during storm event
    • Minimize sediment deposition under bridge
  – This project is part one of a three part fix
    • SSCAFCA is seeking funding for parts two and three
Companion projects

Future Sediment Pond

Future Sediment Pond
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• Project Constraints

  – Maintain current grade on Corrales Rd.
    • Avoid raising current road profile

  – Improvements contained in public ROW
    • Avoid ROW takes
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• Funding
  – NMDOT Funds (from FHWA)
  – State Legislative Appropriation
  – Funds are secured for project completion
  – Total funding available from non-SSCAFCA sources
    ~$950K
  • Any additional funding would need to be supplied using
    SSCAFCA sources, with Board approval
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• Status
  – BHI has completed the draft Design Analysis Report (DAR) for SSCAFCA review
  – BHI/Marron and Associates performing NEPA compliance activities.

(((TURN OVER TO BHI)))
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• Conceptual Design (Option 1)
  – Trapezoidal Outlet Channel Option
    • Plan view of new trapezoidal outlet channel
    • Profile view of new trapezoidal outlet channel
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Trapezoidal Channel Plan View
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Trapezoidal Channel Profile View

TRAPEZOIDAL OUTLET CHANNEL
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• Conceptual Design (Option 2)
  – Concrete Box Culvert (CBC) Option
    • Plan and profile for new box culvert
    • Traffic Control/Detour
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CBC Option Plan and Profile

Figure 4
Harvey Jones Channel Improvements
Bridge Improvement Conceptual Design
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• Common Project Components
  – Sediment removal pond & 3’ sill removal
  – Sediment disposal site
  – Sediment disposal haul routes
    • Option #1: Truck haul route (MRGCD levee road)
    • Option #2: Truck / conveyor haul route (HJC)

• Summary Evaluation of conceptual designs
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Sediment removal pond/3’ sill removal
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Sediment disposal site
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Sediment Disposal Haul Route

Figure 11
Haul Route Options

Haul Route Option A (5.73 Miles)
Haul Route Option B (1.03 Miles)
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Summary Evaluation of Conceptual Designs

• Trapezoidal Outlet Channel
  – Higher cost
  – Provides higher increased hydraulic capacity vs. CBC option
  – No traffic detouring required
  – Provides positive slope in channel downstream of Corrales Rd.
    • More efficiently prevents sediment buildup at Corrales Bridge

• CBC Option:
  – Least cost method
  – Increases capacity at bridge
  – Requires traffic detour during construction
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- Environmental Process
  - National Environmental Policy Act (NEPA)
  - Federal funds / FHWA lead agency
  - Categorical Exclusion
  - Tribal Coordination
  - Public Involvement
National Environmental Policy Act

NEPA PROCESS

- Environmental Justice
- Community Cohesion
- Public Involvement
- Endangered Species
- Air Quality
- Wetlands
- Cultural Resources
- Multimodal Access
- Land Use
- Visual Impacts
- Noise
- Economic Development
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• Biological Survey
  – No Threatened & Endangered Species
  – Habitat Protection
    • Restrict construction season
    • Prevent project-related sediment in waterway

• Cultural Resource Survey
  – No impact

• Water Resources
  – Jurisdictional Waterway
    • USACE Permit
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• Project Outreach

  – Kick off Meeting
    • Village of Corrales – October 30, 2012
  – Agency Meeting
    • Held at SSCAFCA – November 27, 2012
  – Public Involvement Meeting
    • Village of Corrales – December 12, 2012
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• Proposed Project Schedule
  – Public Involvement Meeting: December 12, 2012
  – Final Design Analysis Report: January 2013
  – Design: Jan – Mar, 2013
  – Environmental Process: now – May, 2013
  – NMDOT Certifications: Jan – May, 2013
  – Final PSE deadline for NMDOT funds: August 15, 2013
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Public Input

Comments Received Until December 27th

• Speak tonight
• Fill out comment sheet
• Email/Call
  – Denise Weston (BHI) 923-3321/dweston@bhinc.com