

I-11 Project



2017

Nevada Transportation Conference

AGENDA

- NDOT Snippet
- Project History
- Project Details/Status
- Project Benefits

Ryan Wheeler, P.E.
NDOT, Senior Project Manager



About NDOT

- NDOT Core Values:
 - Respect – treating others with dignity
- NDOT Goals:
 - Deliver timely and beneficial projects and programs

Question

- Does anyone know of another state that is building a,





US-93 HISTORY (Future I-11)

- 2001: Hoover Dam Bypass EIS completed
- 2003-2010: \$231M Hoover Dam Bypass Project
 - Constructed in four phases
 - Oct 16, 2010 Bridge completed
- 2005: BCB EIS completed
- 2010: ADOT Completed 15 miles from MP 2 to MP 17
- 2015-2018: NDOT/RTCSCN to complete 15.5 miles of the Boulder City Bypass (Interstate 11)



HISTORY

EIS Purpose and Need

- The purpose of the project is to provide overall transportation improvements in the corridor by reducing traffic congestion and crashes, and to improve regional mobility while maintaining or improving local circulation and access to Boulder City businesses
- 2005 EIS signed
 - FHWA: Susan Klekar
 - NDOT: Jeffery Fontane

HISTORY EIS



- The proposed Interstate 11 transportation improvements address:
 - Resolving traffic problems in the vicinity of Boulder City
 - Extending freeway status to the U.S. 93/95 interchange
 - Improving operations at the junction of U.S. 93/95
 - Creating a safer transportation corridor
 - Accommodating future transportation demand
 - Improving system linkage on U.S. 93 and maintaining route continuity

REGIONAL MOBILITY



3



HISTORY

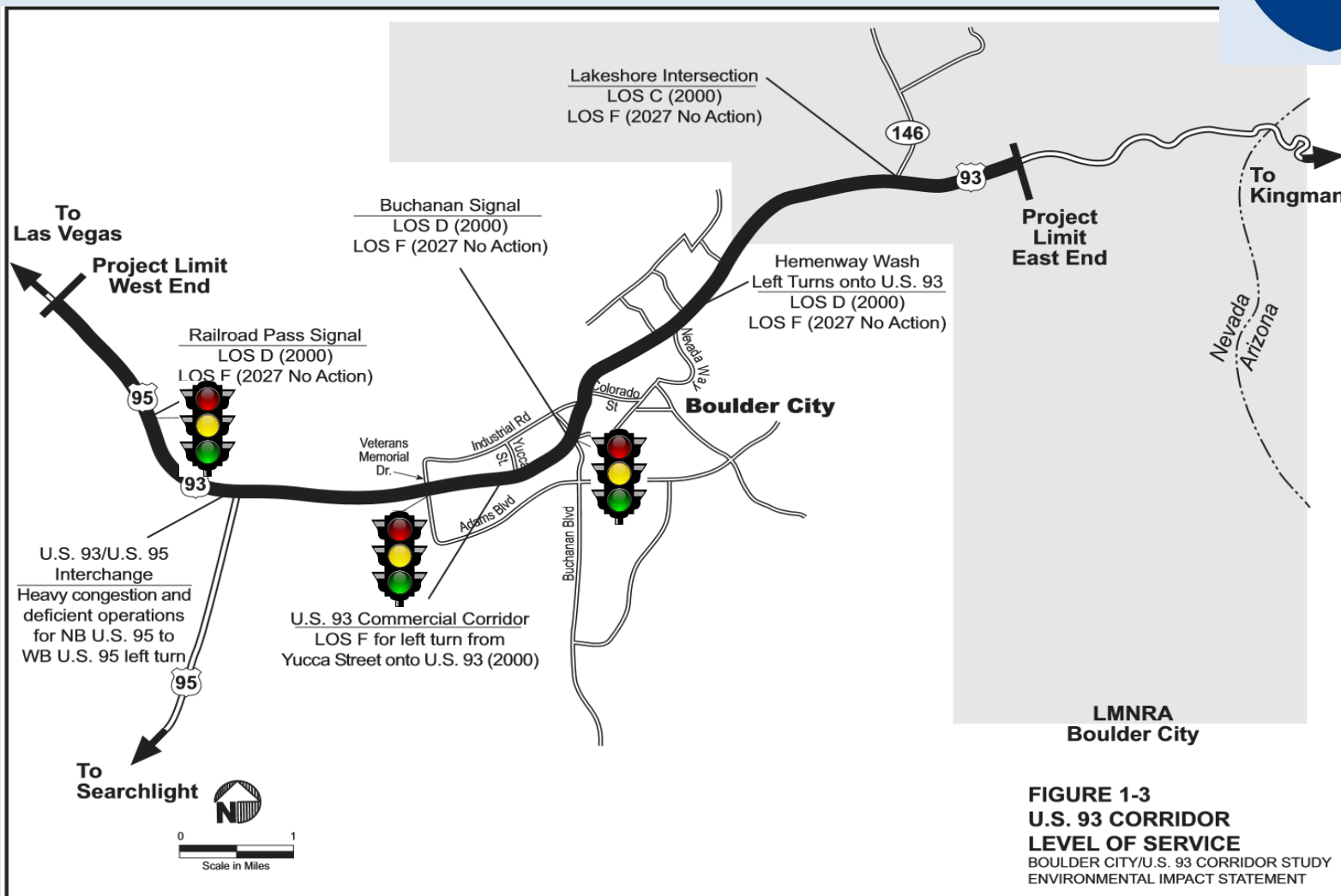
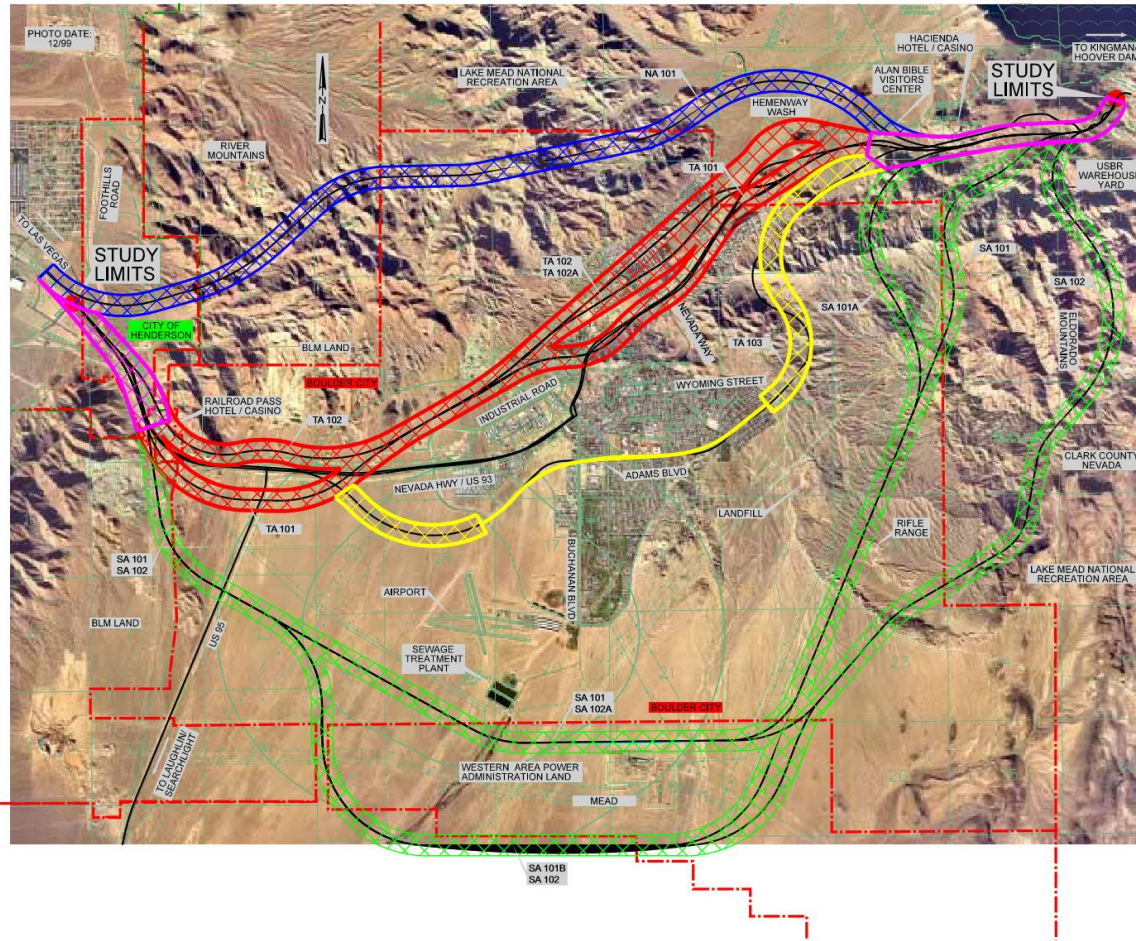


FIGURE 1-3
U.S. 93 CORRIDOR
LEVEL OF SERVICE
 BOULDER CITY/U.S. 93 CORRIDOR STUDY
 ENVIRONMENTAL IMPACT STATEMENT

HISTORY

INTERSTATE

11



**FIGURE 2-6
ALTERNATIVE CORRIDORS
EVALUATED**
BOULDER CITY/US 93 CORRIDOR STUDY
ENVIRONMENTAL IMPACT STATEMENT

LAS 155933.ED.ELFE Figure 2-6 1/05

HISTORY

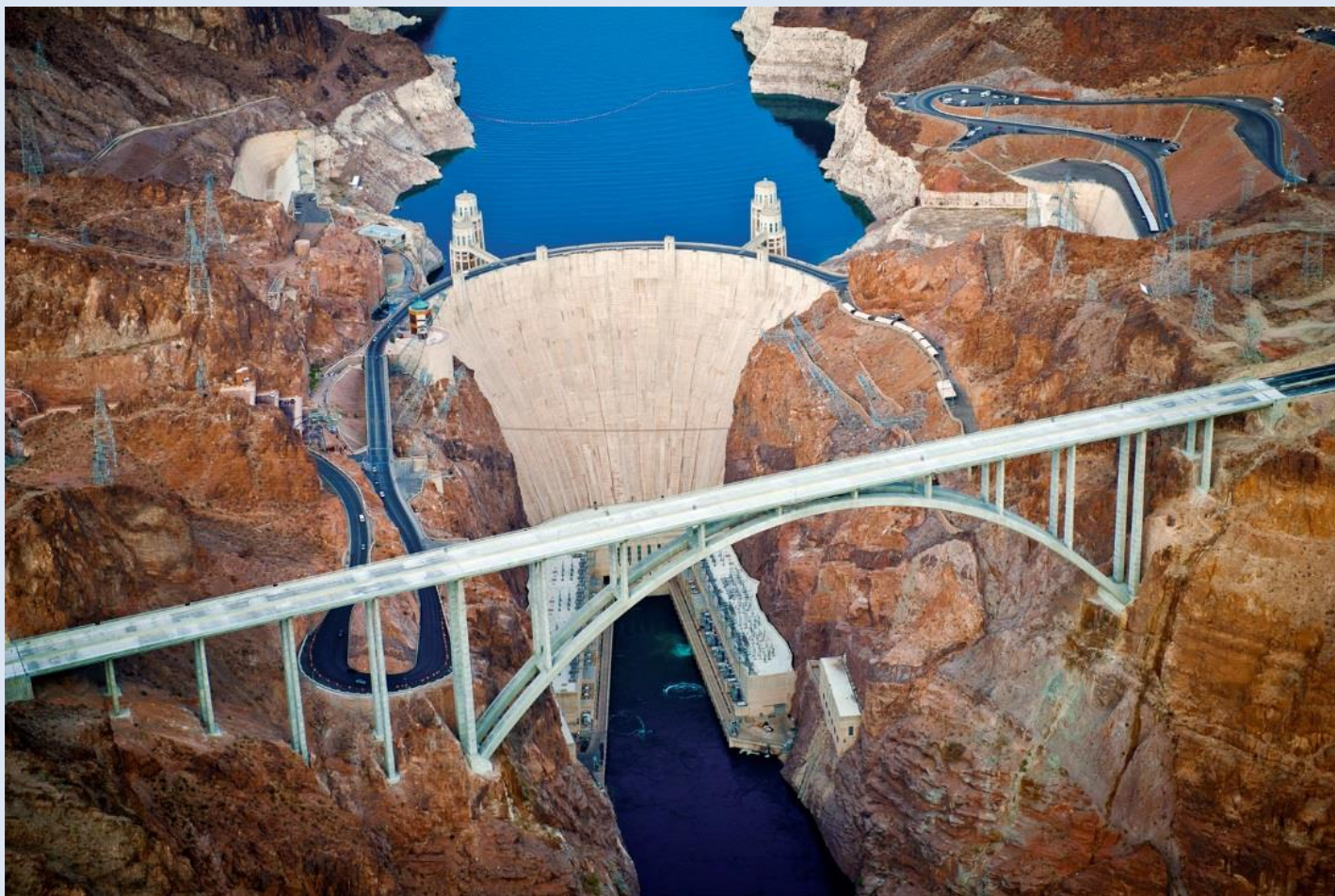


- There was a severe traffic problem crossing the dam



HISTORY

- We solved that problem



HISTORY AND BACKGROUND

- There is a severe traffic problem in Boulder City

Posted December 29, 2010 - 12:29pm

Bypass bridge traffic ties up Boulder City



By ADRIENNE PACKERLAS VEGAS REVIEW-JOURNAL

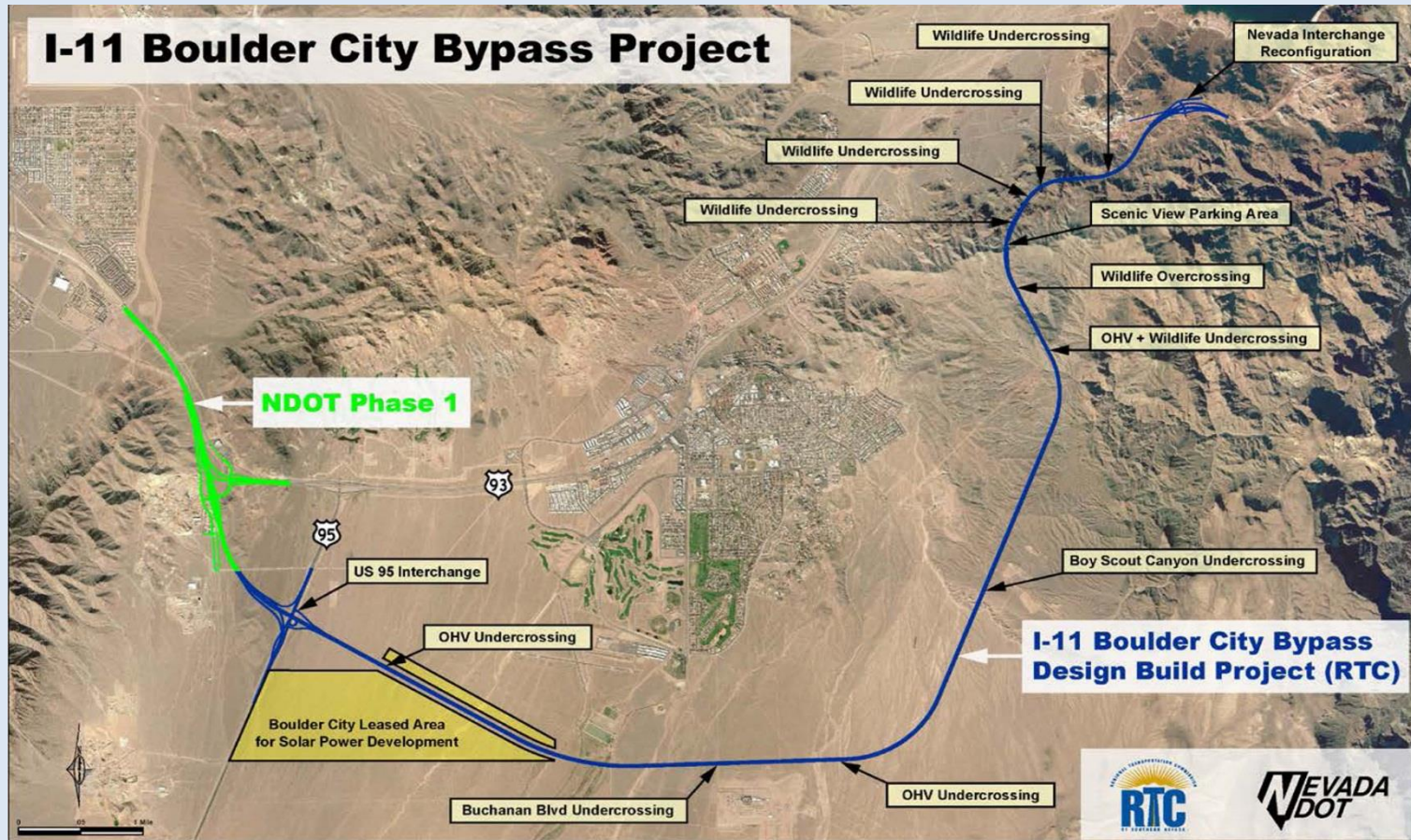


HISTORY AND BACKGROUND

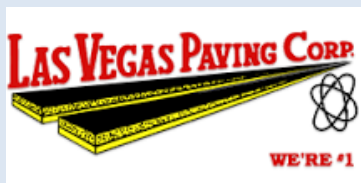
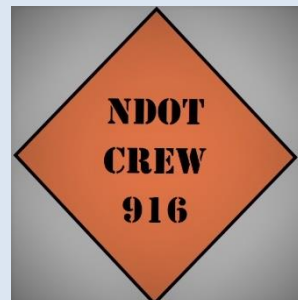
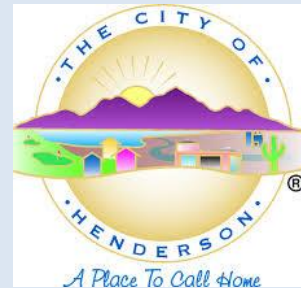
- “We spent all this effort building this amazing bridge, and its simply moved the severe traffic problem once at the dam to Boulder City” - Mayor Roger Tobler
- I tried to visit my mother in Boulder City twice in the past week but turned around both times after I hit congestion as far west as College Drive in Henderson – Jacob Snow, General Manager RTCSN

PROJECT OVERVIEW

- We are solving this problem!



COLLECTIVE “WE”





I-11 PROJECT

- Annual Financial Plan
- \$455M of project related work including
 - Engineering
 - ROW
 - Construction
- Includes \$21M of early improvements to US 93 and Buchanan Blvd.
- ~\$328M spent to date



I-11 PROJECT

- \$313M of active construction work
- 15.5 miles of new I-11 freeway construction
- 4 Lane (2 Lanes in each direction) Limited Access Facility
- Interchanges at US-93 S, US-95, US 93 N
- 17 Bridges (2 bridges CO into project)
 - 4 Wildlife Crossings
 - 1 Wildlife Overcrossing
- Project Completion: October 2018

I-11 PROJECT DELIVERY

- PROJECT COMPLETED IN TWO PHASES

- PHASE 1

- Design-Bid-Build



- Phase 2

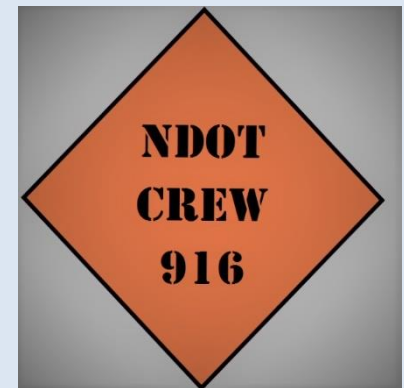
- Design-Build



PROJECT STATUS – PHASE 1



- Design-Bid-Build delivery administered by NDOT
- Project awarded Feb 10, 2015 to Fisher Sand and Gravel Company
- Project amount: \$83M
- 3.5 miles of new I-11 and roadway improvements
- Notice to proceed: May 11, 2015
- Project complete: Jan 5, 2018



CONSTRUCTION SCHEDULE

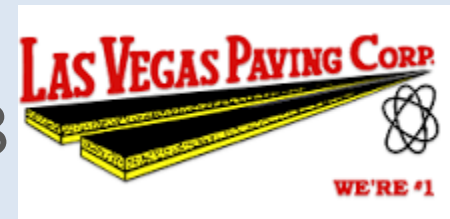
- Earthwork
 - 2.2M CY of Excavation (Completed)
- Portland Cement Concrete
 - 121,000 CY (SB alignment complete)
- Asphalt
 - 252,000 TN of Aggregate Base (90% complete)
 - 64,650 TN of AC Pavement (60% complete)
- Storm Drain
 - 8,400 LF of Storm Drain Improvements
- Bridges
 - 1 - Steel Girder
 - Deck pour completed
 - 4 - Concrete Box Girder (1 RR Bridge)
 - Completed
 - 1 - Prefab Steel Truss
 - Completed



PROJECT STATUS – PHASE 2



- Design Build Delivery administered by RTC of Southern Nevada, oversight by NDOT
- Contractor is Las Vegas Paving with CA Group as the Lead Engineer
- Project amount: \$230M
- 12.5 miles of new I-11
- April 20, 2015 Construction NTP
- Substantial Completion: June 2018
- Final Completion: October 2018



CONSTRUCTION SCHEDULE

- Earthwork
 - 5.2M CY of Blasting (4.9M CY Complete to date; will complete Spring 2017)
 - 6M CY of Excavation (5.7M CY Complete to Date; will complete Spring 2017)
- Asphalt
 - 550,000 TN of Aggregate Base (Placement began May 2016; Completion Late 2017)
 - 350,000 TN of AC Pavement (Placement will begin Fall 2016; Completion Mid 2018)
 - 5 Miles of roadway have been paved to date
- Storm Drain
 - 28,000 LF of Storm Drain Improvements (26,000 LF Complete to date; will complete early 2017)
- Bridges
 - 4 - Steel Girder
 - Construction will begin September 2016, Completion Fall 2017
 - 4 - Concrete Box Girder
 - Construction began June 2016, Completion Fall 2017
 - 2 - Precast Arch
 - Construction will begin late 2016, Completion Early 2017
 - 1 - Cast in Place Arch
 - Construction began June 2016, Completed November 2017



BLASTING



BLASTING



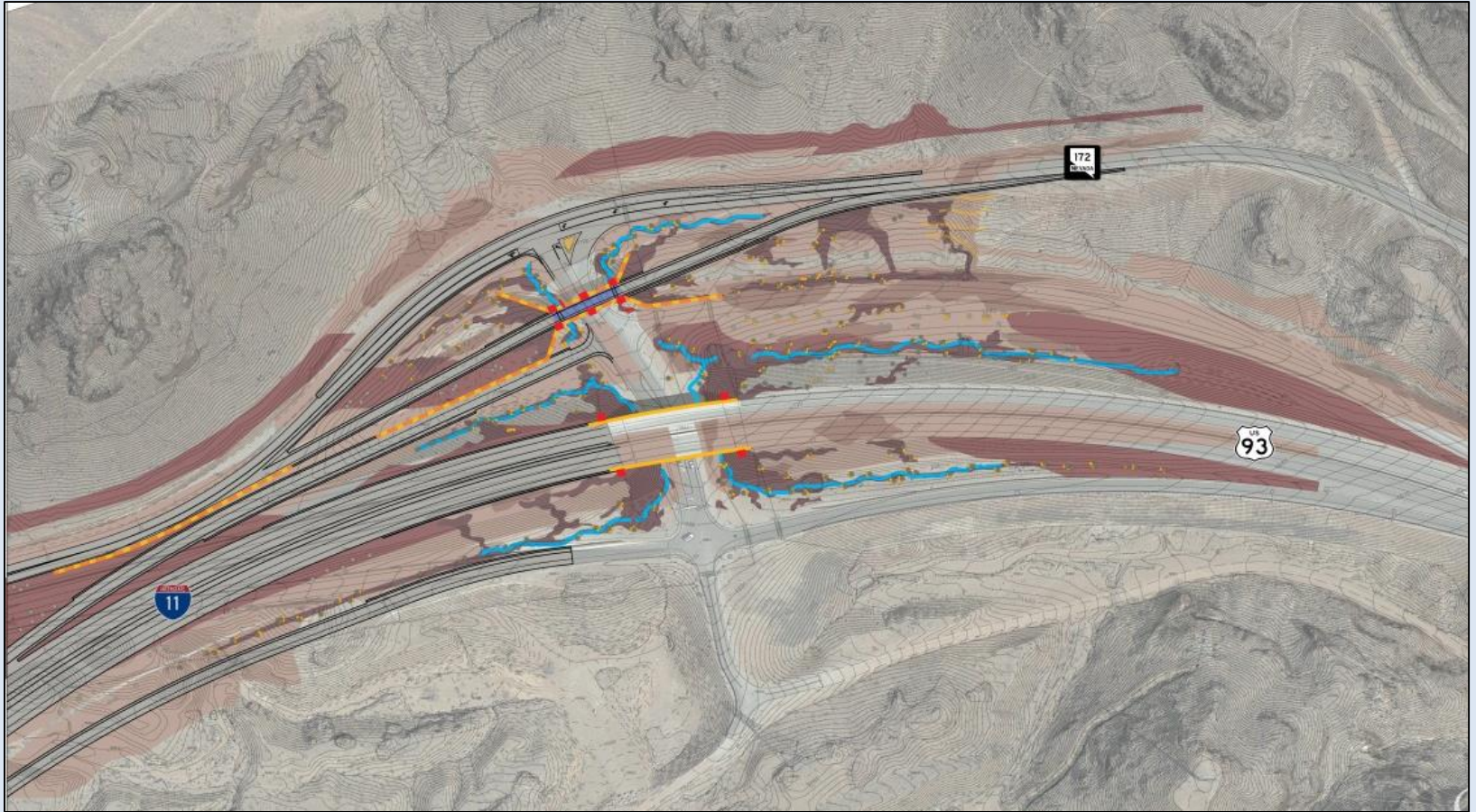


PROJECT BENEFITS

- Improved connectivity
- Improved mobility
- Improved safety
- Relieve congestion
- Re-establish critical connections
- Creates thousands of jobs

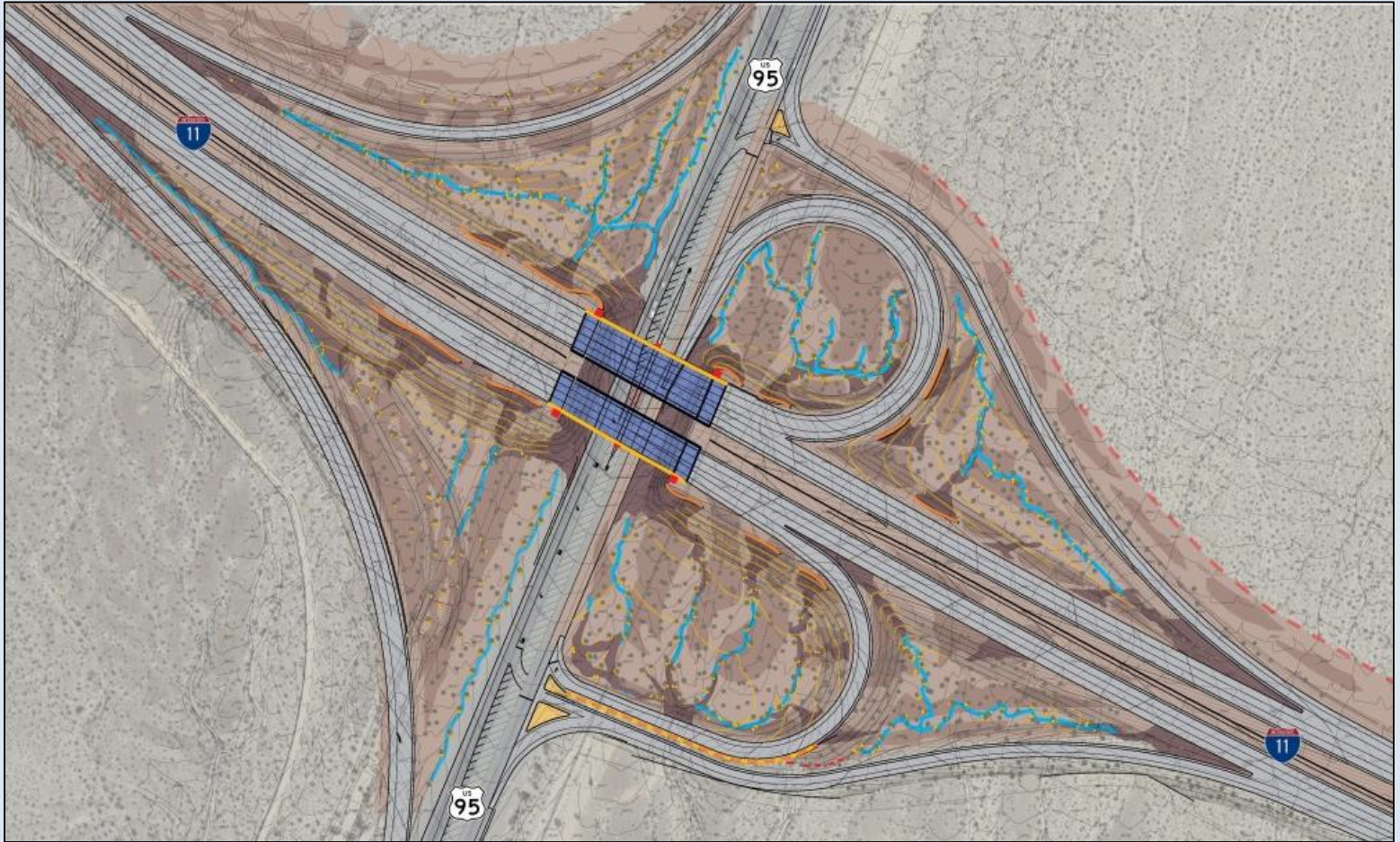
INTERCHANGES

I-11/SR172/US93BUS



INTERCHANGES

I-11/US95



INTERCHANGES

I-11/US93BUS

RR PASS INTERCHANGE



ALL INFORMATION PRESENTED IS PRELIMINARY
SUBJECT TO REVISION

Photo Simulation of West Frontage Road



BOULDER CITY
BYPASS

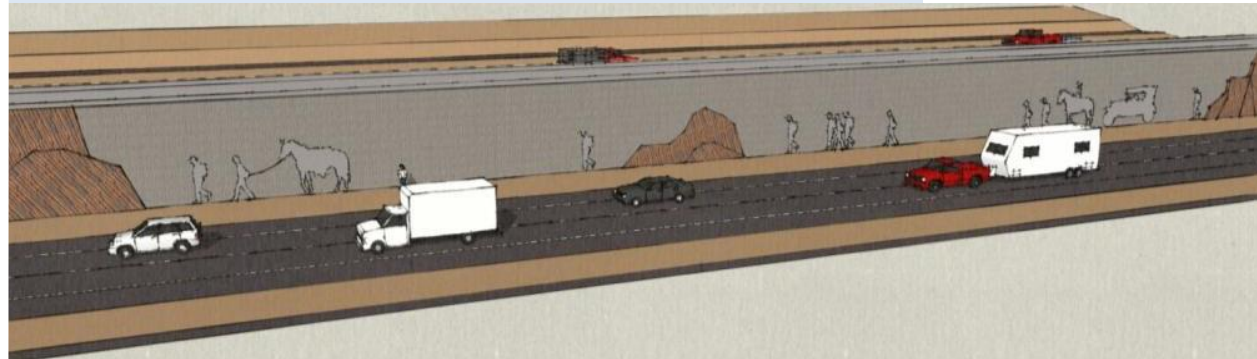
PROJECT BENEFITS



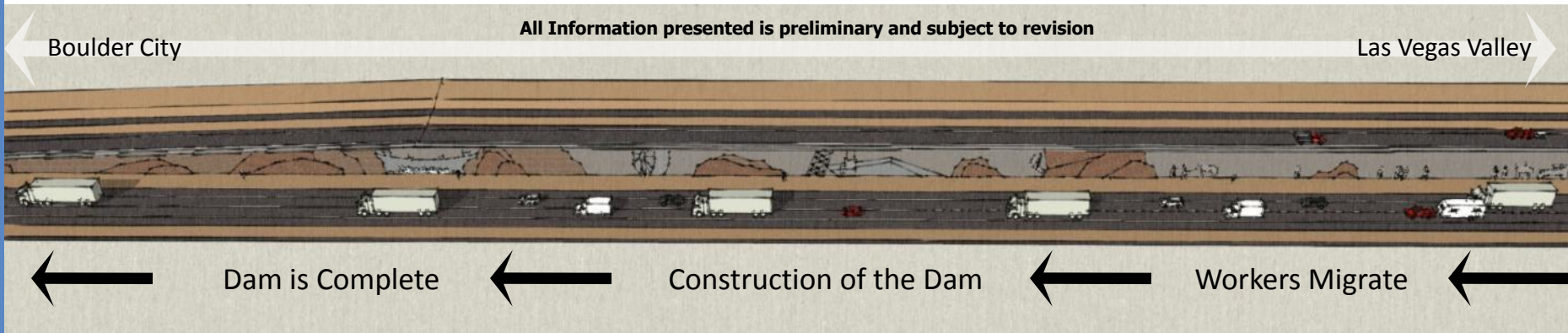
Phase 1 Landscape & Aesthetics



Completed Hoover Dam



'31ers Migration



Boulder City

All Information presented is preliminary and subject to revision

Las Vegas Valley

Dam is Complete

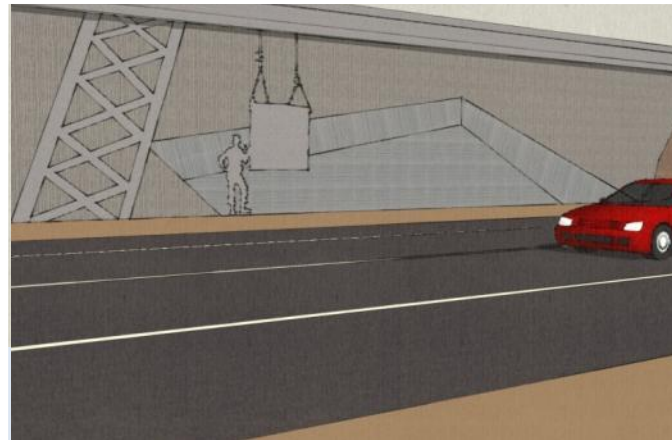
Construction of the Dam

Workers Migrate

Penstock pipe



Pouring Forms



High Scalers



PROJECT BENEFITS



PROJECT BENEFITS

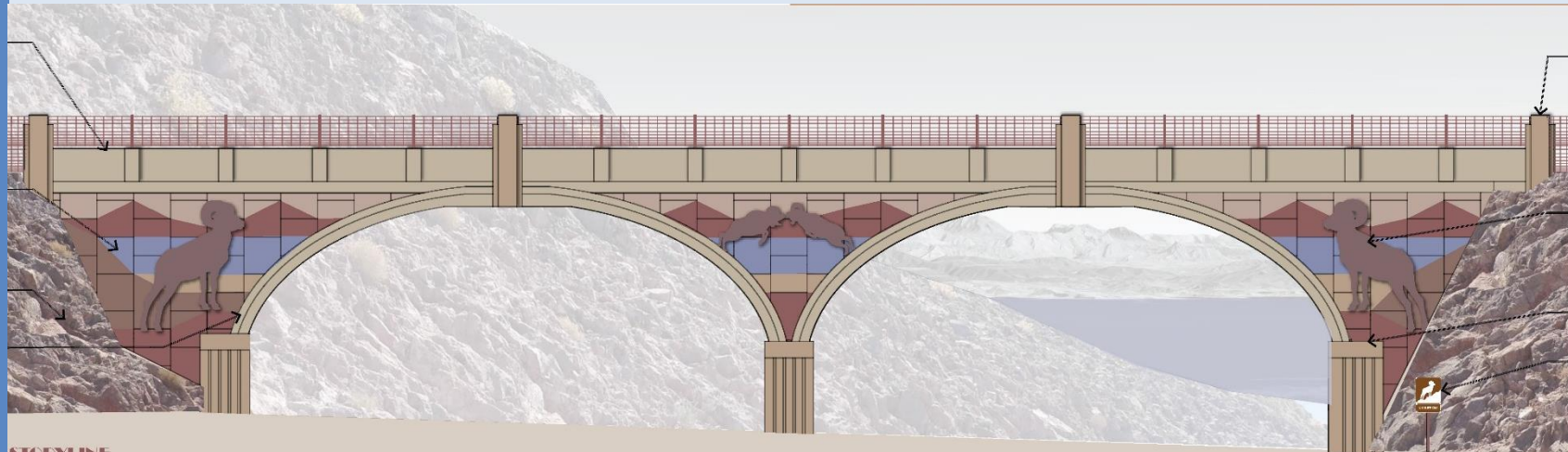


PROJECT BENEFITS





PROJECT BENEFITS



STORYLINE



Image Attribute: Magnus Kjaergaard (changes made)

Image Source: Boulder City Bypass Project RFP

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Image Attribute: Magnus Kjaergaard (changes made)

PROJECT BENEFITS



PROJECT BENEFITS

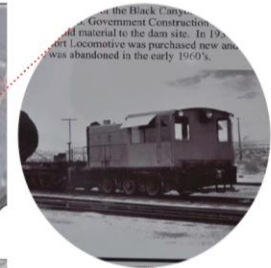


Image © 2016 DigitalGlobe

PROJECT BENEFITS



PROJECT BENEFITS



DAVENPORT DINKY
TRAIN DISPLAY

1. MUSEUM
2. BRIDGE
3. PLATFORM
4. PARKING
5. TRAIN DISPLAY
6. SITE MAIN ENTRANCE
7. BUILDING MAIN ENTRANCE



NEVADA STATE RAILROAD MUSEUM

tsk

PROJECT BENEFITS



NEVADA STATE RAILROAD MUSEUM **tsk**

PROJECT BENEFITS





PROJECT BENEFITS

- Public Outreach, Phase 1
 - www.i-11phaseone.com
Tony Illia; tillia@dot.state.nv.us; 702-385-6509
- Public Outreach, Phase 2
 - www.i-11nv.com
Sonya Ruffin; 702-929-2013; info@i-11nv.com
- www.i11study.com

QUESTIONS?



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