

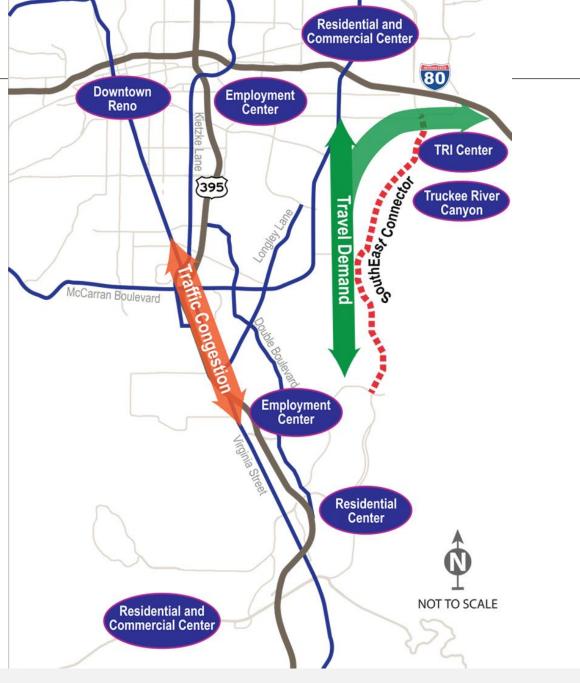
Purpose of Report

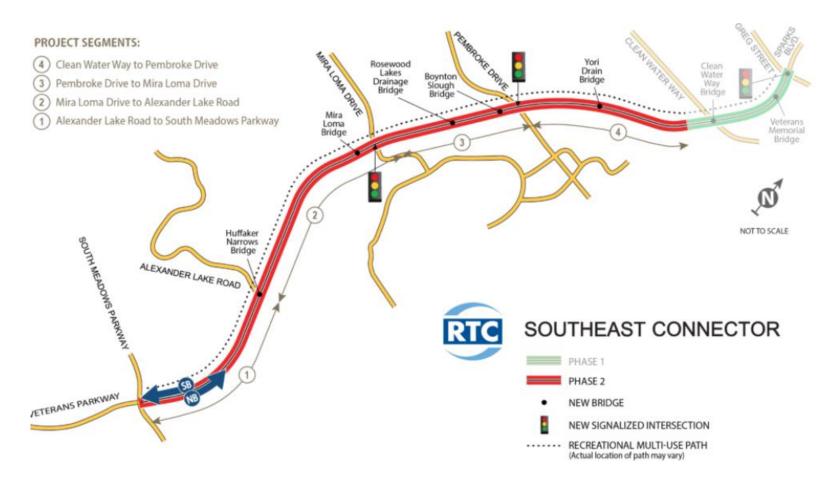
Tahoe—Pyramid Link

1982 RTC Authorized Alignment Study

The general location for the Tahoe-Pyramid Link between the intersection of the Mt. Rose Highway/U.S. Highway 395 and Interstate 80 (I-80) has been adopted by the Regional Planning Commission as shown on the Regional Master Plan of Streets and Highways. The roadway lies in the southeastern portion of the Truckee Meadows and traverses large property holdings such as the Damonte, Double Diamond, Bella Vista, and Jones' Ranches, and portions of the Hidden Valley properties (see Plate No. 1). The potential development of these properties in conjunction with the increasing traffic demand on U.S. Highway 395/South Virginia Street necessitates an additional northsouth expressway in the southeast portion of the Truckee Meadows. To assist in planning for future development in this area, the corridor of the Tahoe-Pyramid Link needed to be refined and a definite horizontal and vertical alignment established.

- 1997 New Watershed Data and Traffic Volume Projections
- 2004-2008 Alignment Finalized
 - Needs same as realized in 1982.
 - Increased with TRIC and lack of N/S route

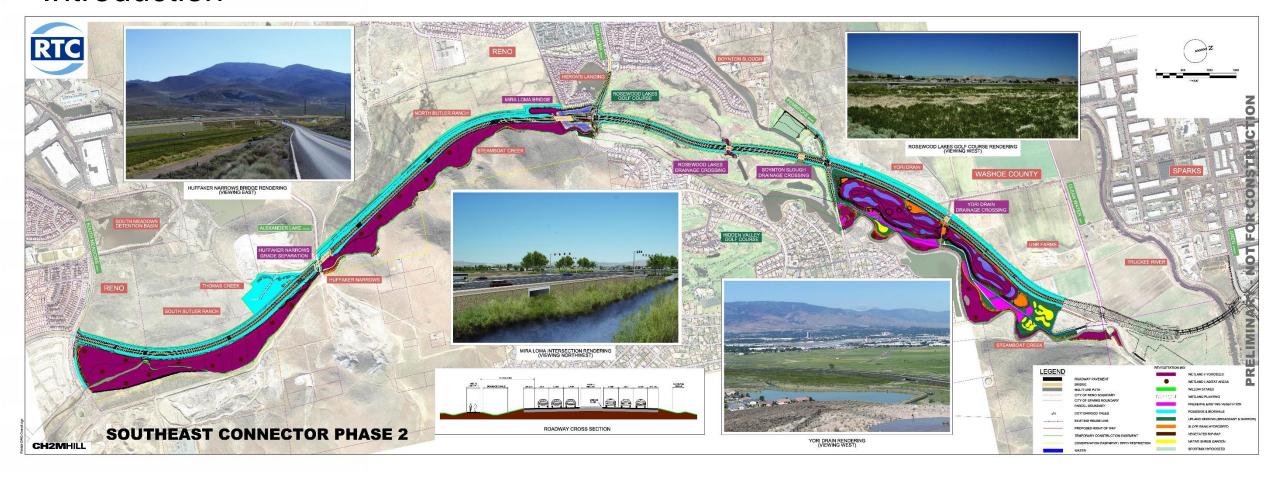




- November 2008 RTC Board Voted for Final Alignment
- 2011 RTC issued RFP for PH1
 - USACE Allowed for Construction due to Limited Impacts of Viaduct Structure
- April 2012 Kiewit Awarded CMAR

- Feb 2013 Kiewit Began Phase 1 Construction
- May 2013 Granite Awarded CMAR for Phase 2 Pre-Construction
- Phase 1 Construction Completed July 2014





 July 2014 CH2M Completed 100% Design for PH2

- April 2015 USACE Issued 404 Permit
- June 2015 Granite Started Construction of SEC PH2



Earthwork



Rock Stabilization

- Primarily in Golf Course
- 1'-4' of Stab Rock or Broken Concrete
- 170,000cy



Dewatering

- Majority of Cut Areas at or Below Ground Water Table
- 193 Wells ranging from 15' to 40'
- 2ea 5-6 Million Gallon Ponds, Discharge to Land

Earthwork





Settlement

- Settlement, Expected up to 2' and 4-6 Months
- Surcharge, minimum of 19" up to 4ft

Deep Soil Mixing

- Areas of High Settlement / Schedule Purposes
- Bridge Abutments for Geotechnical Needs
- 35,000cy of Displacement



Earthwork





Mass Grading

- 1.5 Million Cubic Yards of Cut/Fill
- Blend of Scrapers and Haul Trucks
- Blend for Moisture, PI, Hg, and Organic Content

Cement Treat Subgrade

Over 2 Million Square Feet of 18" CTS



Paving – Base and AC





Agg Base

Complete to date - 40,000 TN

mainline – 136,500 TN

x-streets
24,500 TN

AC

• Complete to date −20,000 TN

mainline – 84,100 TN

• x-streets - 14,600 TN



Flood Equalization Culverts

- 13,579LF of 6'X4' Precast RCB
- Range from Single Cell to 19 Cells Wide
- Roadway Creates a "Dam" within the Flood Plain and RCB's allow water to Equalize across the Flood Plain



RCB Installations

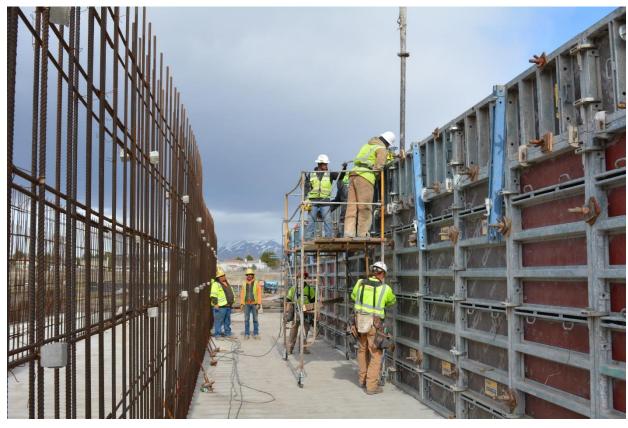
Pembroke Installation

 Used Precast on Installations at Cross Streets to Minimize Impact to Traveling Public



Drainage





Cast In Place RCB Sta 79

Larger RCB's from 10X6 to 12 X12 were Cast In Place

Cast In Place RCB Sta 170

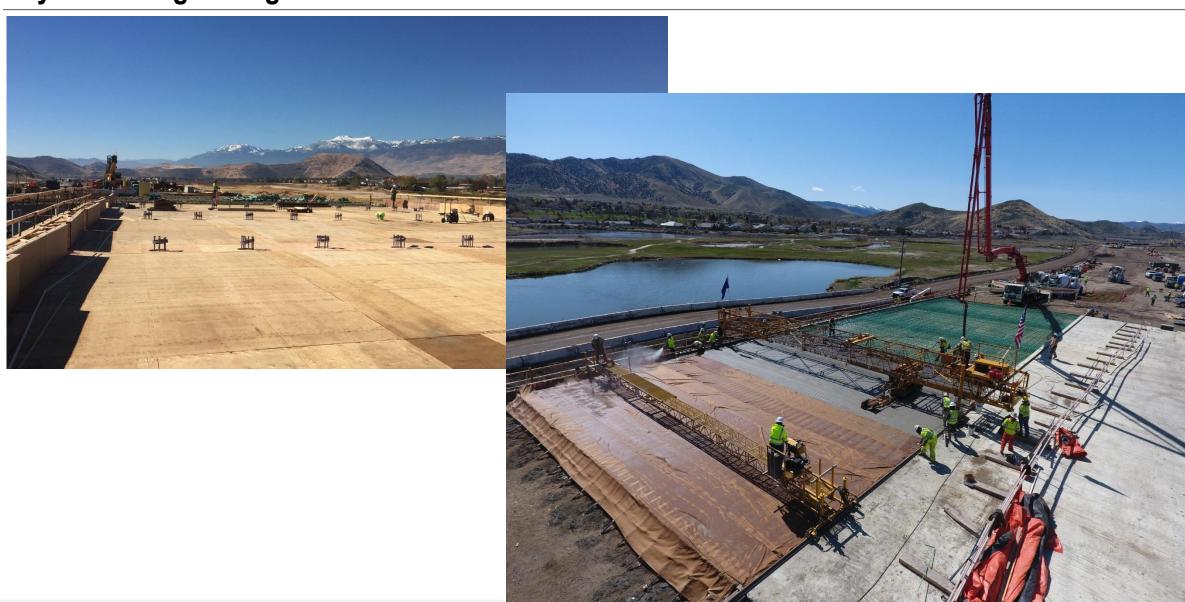


Structures 2016 – Foundation for 2017

- 4 Flat Slab Bridge Locations
- 1ea 500', 5 span, Cast in Place Box Girder
- Completed Work Yori Bridge, Rosewood and Boynton SB bridge decks, box culverts, headwalls, wingwalls, diversion structures, abutments, driven pile, fabricated forms
- 9,253 CY Poured to date
- 24,404 CY remaining to complete
- 184ea H Pile
- 466ea 18-24" Round Steel Pile



Boynton Slough Bridge



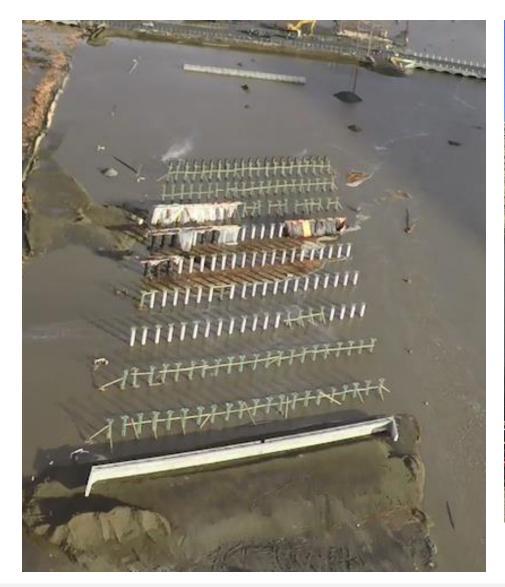
Rosewood Lakes Bridge



Mira Loma Bridge



Mira Loma Bridge







Huffaker Bridge Sub-Structure

- H-Pile
 - 184 EA
- Abutment Footings
 - 404 CY
- 8 Pier Footings
 - 444 CY
- 24 4 ft Columns
 - 272 CY





Huffaker Bridge Superstructure



Soffit

- 761 CY / 68,109 SF

Stem Walls/Diaphrams

1199 CY / 48,019 SF

Deck

1426 CY/ 39,656 SF

Post Tensioning

Subcontractor - Dywidag

Rail

• 164 CY/1165 LF

CIP Arch Culvert Extensions – Mira Loma

- RCA 3 Cell 16 x 8 Avg. 61' to the North, 3' to the South
- RCA 6 Cell 16 x 8 Avg. 46' to the North
- Demo headwalls and tie in
- Coordinate with Utility Work (Sub) and low water flows (Historically June –July, into August this year)
- Predecessor to widening intersection









Environmental

Environmental Project with a Road Running Though It!

Compliance

- 404/401 USACE/NDEP
 - SWPPP
 - Working in Waterways
 - 8 locations
 - Cultural Resources
 - 3 Tribes
 - SHPO
 - Mercury Contaminated Soils
 - Noxious Weeds/White Top
- CLOMAR/FEMA Flood Plane
- Washoe County Air Quality

ZERO VIOLATIONS!!!!

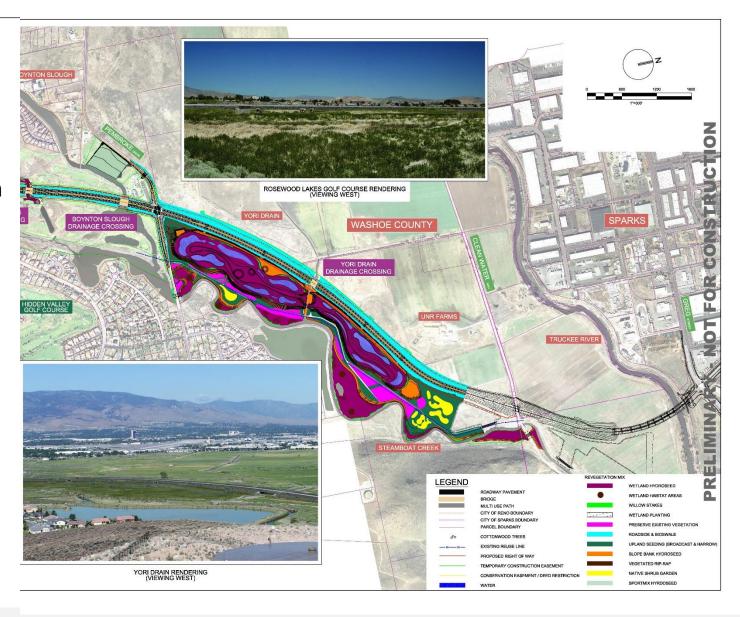


Environmental

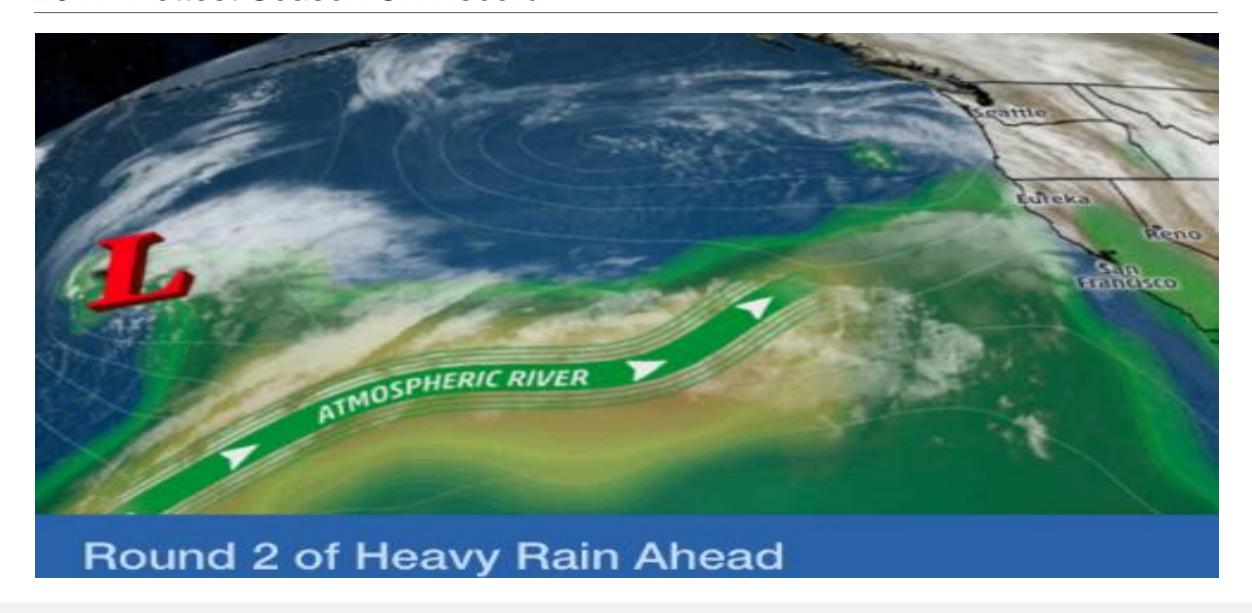
Wetland Habitats

- 9 acres of Wetland from Golf Course.
- 80 Acre Wetland Complex—Yori Drain

seeding	- 310	AC
wetland planting	- 102	AC
plant propagation	- 33,000+	EΑ
fiber rolls	- 57,000	LF
habitat areas	- 19	EΑ
vegetated riprap	- 1,800	CY
willow stakes	- 21,000	SY
cottonwoods	- 570	EΑ



2017 Wettest Season On Record



Environmental



2017 Challenges

- water
- more water







