

## I-90 Corridor Exit 61 to Exit 67 Corridor Study

Public Meeting #3

March 6, 2017

BHSU Rapid City Center



### Introduction

- Welcome
- Housekeeping Items
- Methods of Commenting
  - Comment Card tonight
  - Comment Card later
  - Conversation with project representatives
  - Correspondence after the meeting
- Comments due by September 29



### **Project Contacts**

SDDOT Project Manager: FHU Project Contacts:

Steve Gramm, PE Lyle DeVries

Planning Engineer Todd Frisbie

Ph: (605)773-6641 Ph: (303)721-1440

steve.gramm@state.sd.us lyle.devries@fhueng.com

#### **Study Advisory Team Entities:**

- Federal Highway Administration (FHWA)
- City of Box Elder
- Rapid City Area MPO



### Project Background

- Recommended in BESTPlan as a more focused study of important corridor
- Positioned to:
  - Answer key questions in advance of I-90 rehab/reconstruction (8 yrs. out)
  - Address future of Exit 63
- Collaborative effort among several entities



# Study Area & Project Goals & Needs

#### **Study Goals:**

Complete a list of transportation issues and needs facing the I-90 corridor within the study area

Develop feasible solutions to address those issues and needs that meet current design standards and/or traffic level of service expectations under both the current and predicted future traffic conditions while promoting a livable community that will enhance the economic and social well-being of all users of the corridor.

Two primary areas of need will be investigated in this study.

#### 1. I-90 Corridor Capacity

The need for I-90 and the surrounding roadway network to provide acceptable traffic operations and safety now and into the long range future.

Study Area

Ellsworth AFB

GUINTY HIGHWAY 1416

EGLIN ST. CHEVENNE BILVD

Rapid City

Box Elder

Rapid City

Traffic counts, forecasts and analyses may support:

- The need for an additional travel lane along I-90 for all or part of the study corridor
- The need for particular regional roadway network improvements to accommodate vehicle-trips and support I-90
- The need for other multimodal mobility enhancements

#### 2. Interchange Access

The current half movement interchange provides only for movements to and from the west, not in compliance with current Federal Highway Administration (FHWA) policy requiring that service interchanges provide for all movements. The study will investigate options to bring Exit 63 into compliance with FHWA policy.

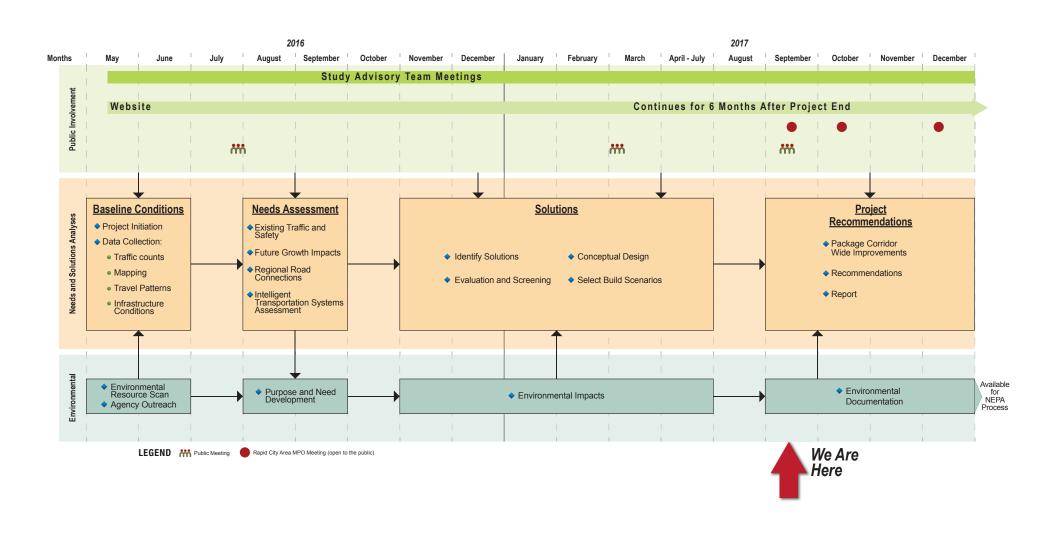


### Project Update

- Public Meeting held March 6, 2017 to present project and existing conditions information, input included:
  - Need for east-west connections supporting I-90
  - Favor for new Exit 63 slightly west of current location
  - Maintain business access
- Project efforts:
  - Further analyses/screening to identify feasible solutions
  - Coordination with Study Advisory Team
- Now presenting findings to public for review and input

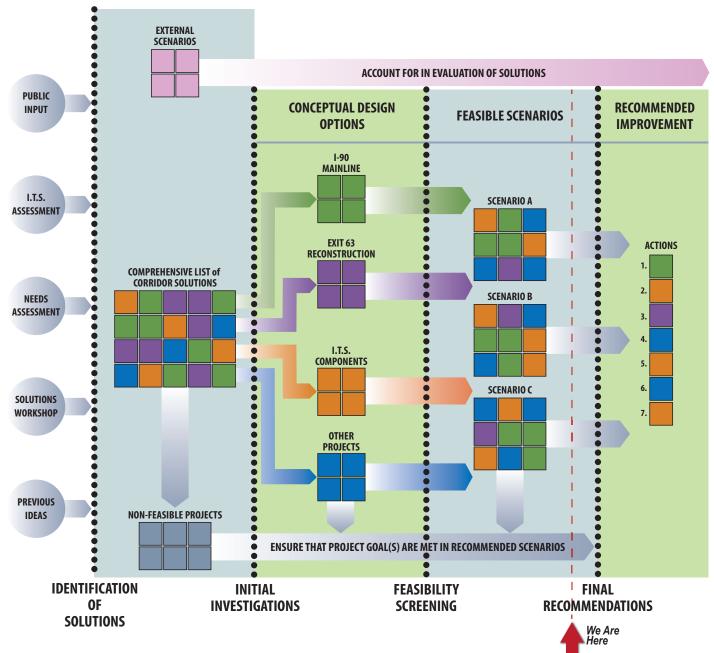


### Schedule/Work Plan





#### Solutions Process



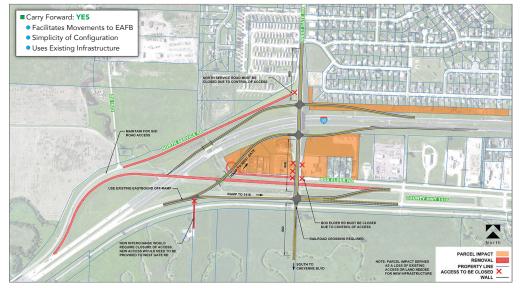


### Exit 63 Alternatives Carried Forward for Further Evaluation

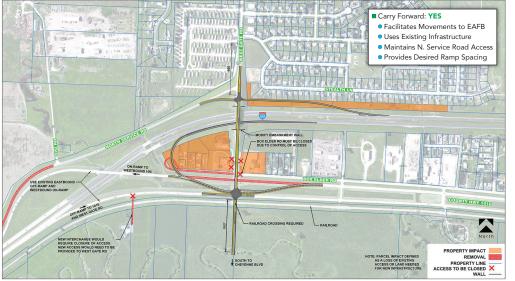
I-90 Exit 63 Alternative 1 Interchange at West Gate



I-90 Exit 63
Alternative 2
Interchange at
West Gate Rd.
with Direct Access to
Eastbound 1416



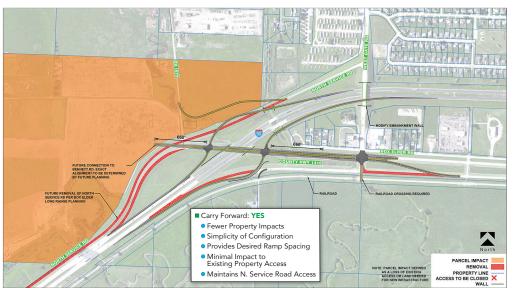
I-90 Exit 63
Alternative 3
Interchange at
West Gate Rd. with
Existing West Ramps
and New East Ramps

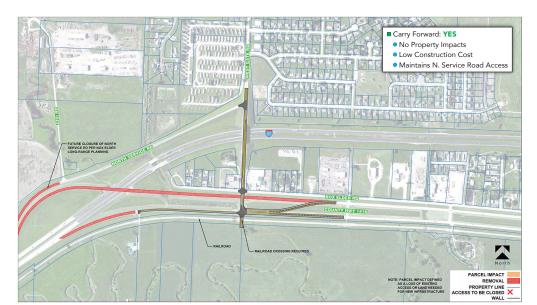




## Exit 63 Alternatives Carried Forward for Further Evaluation

I-90 Exit 63 Alternative 4 Diamond Interchange at Highway 1416

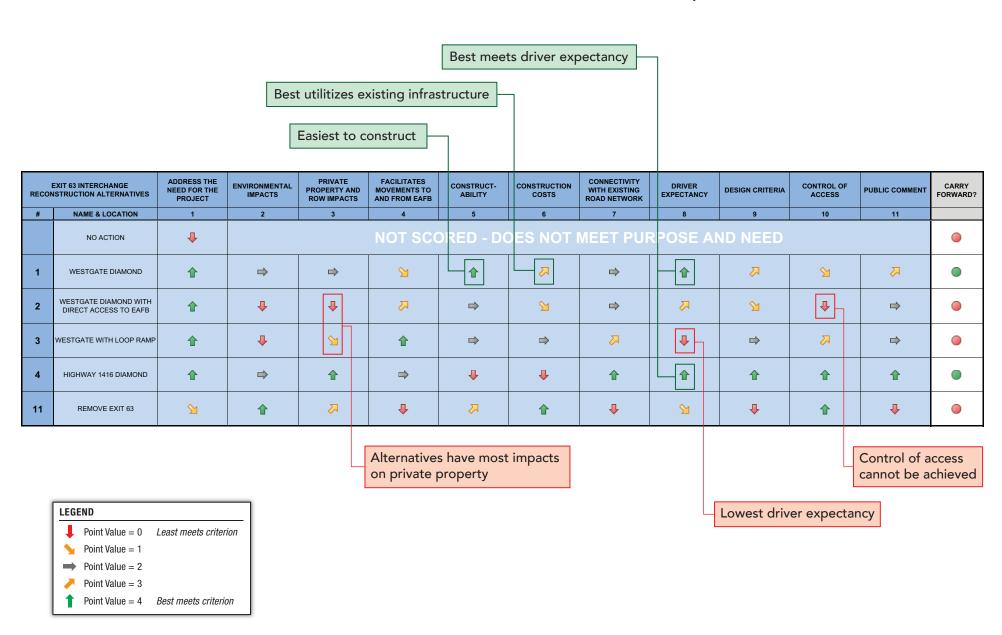




I-90 Exit 63 Alternative 11 Exit 63 Removal at County Hwy 1416

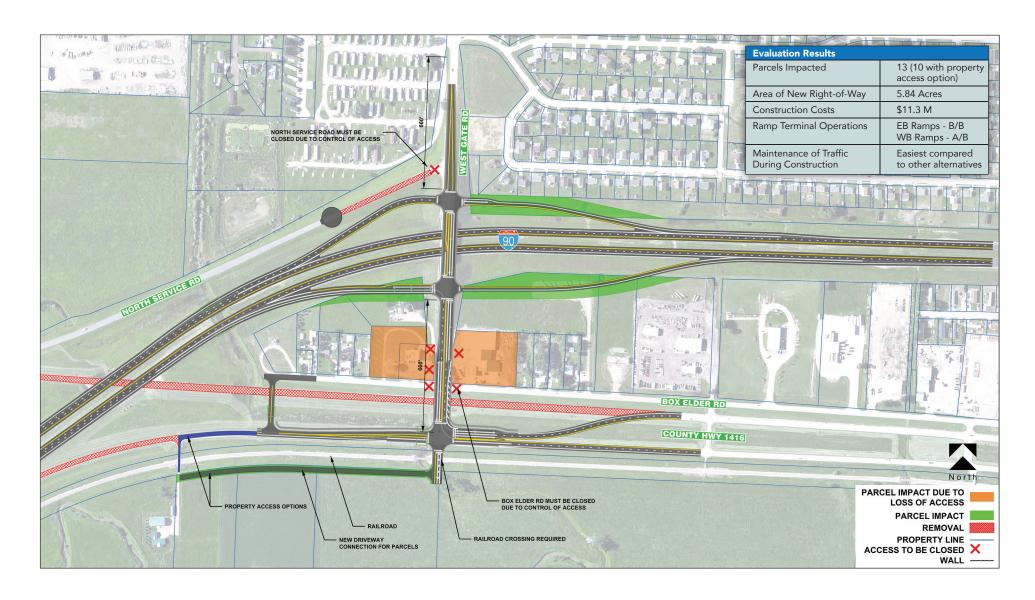


## I-90 Exit 63 Evaluation of Options Carried Forward



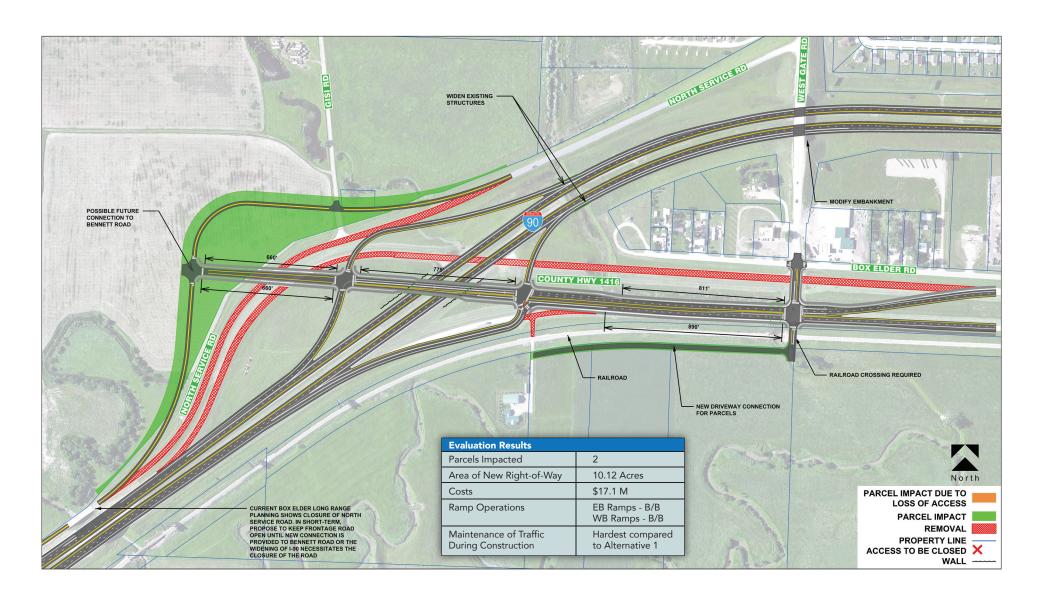


### Feasible Option 1 -Westgate Diamond



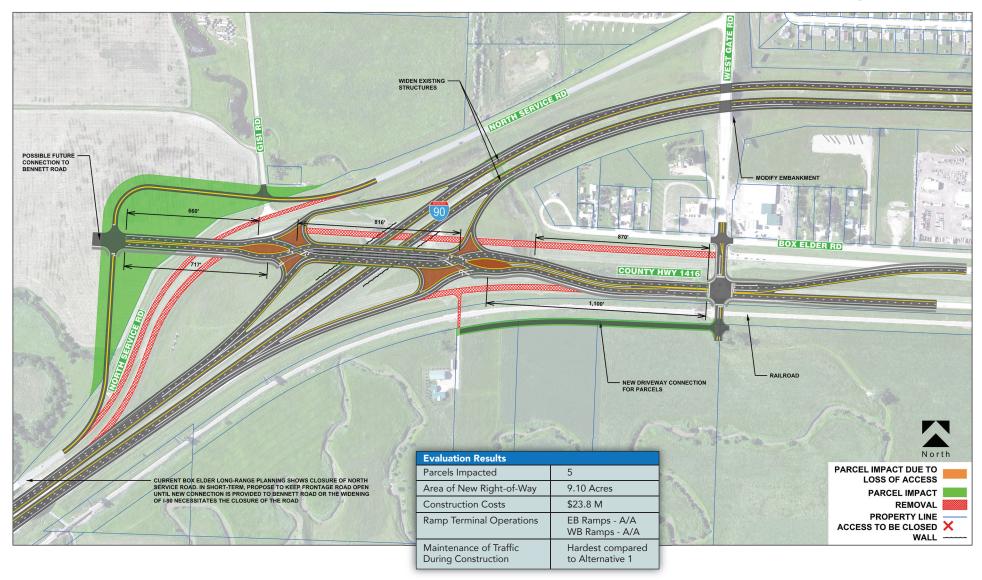


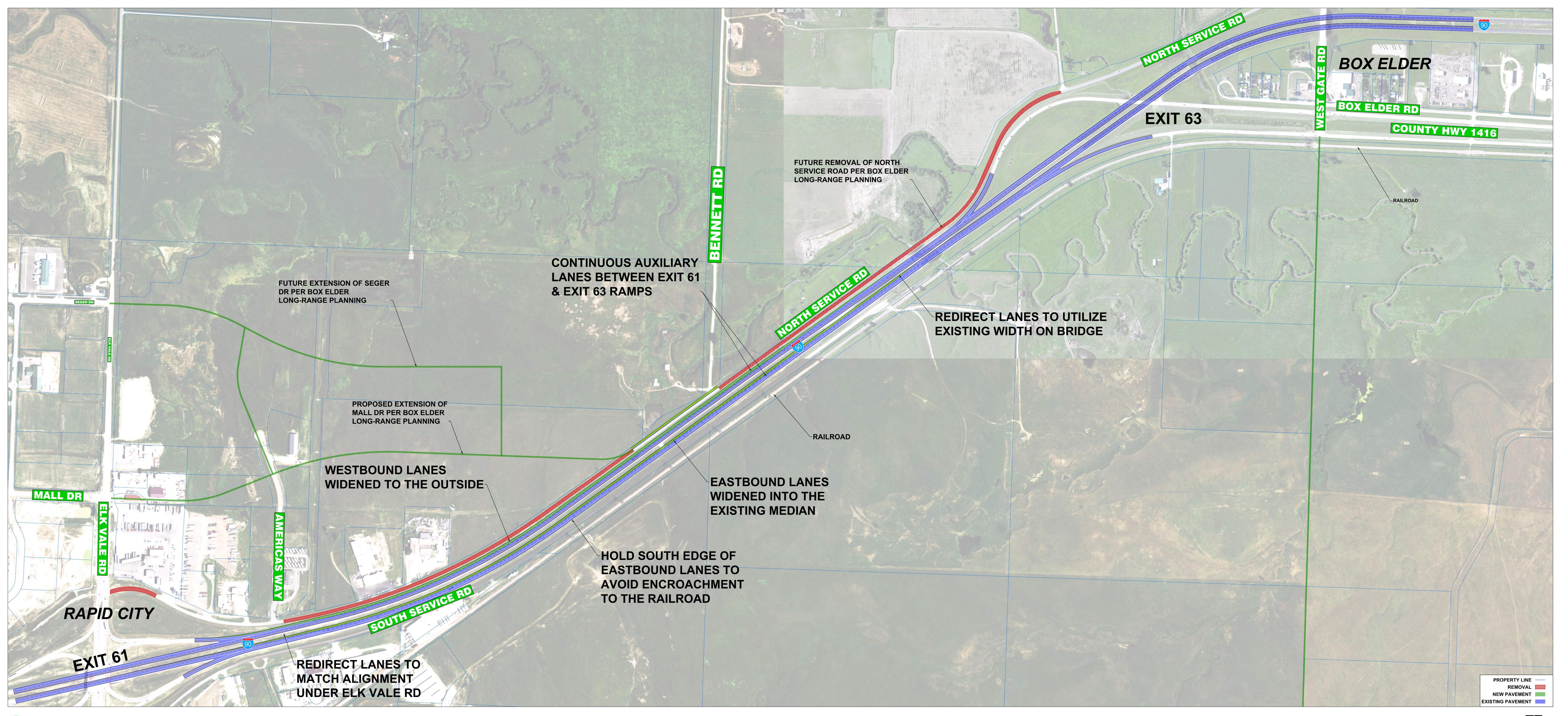
### Feasible Option 4a -Highway 1416 Diamond



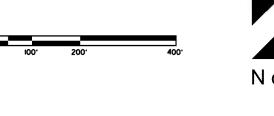


### Feasible Option 4b -Highway 1416 Diverging Diamond Interchange (DDI)



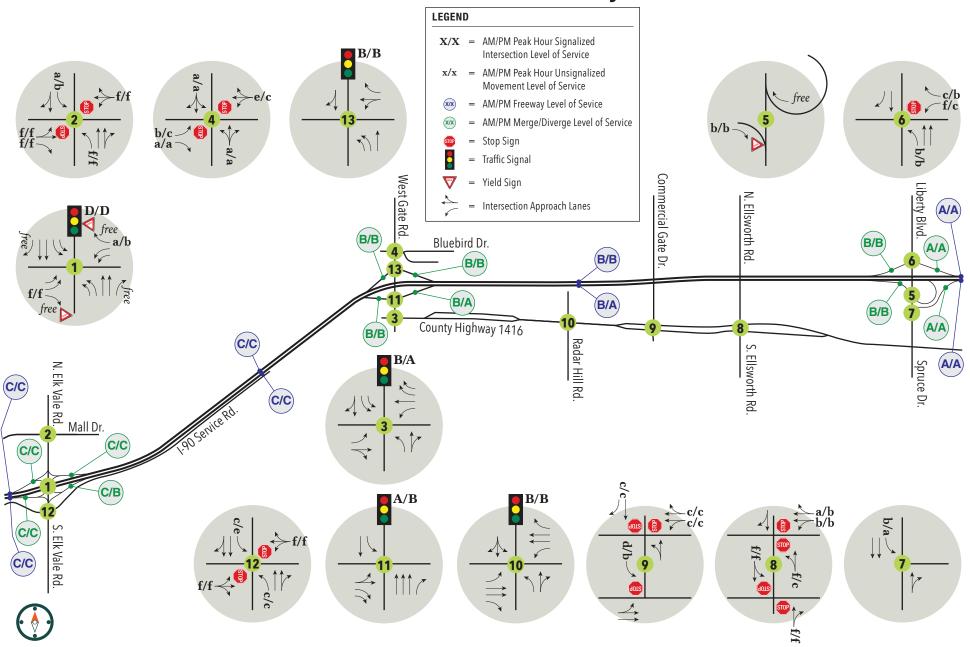






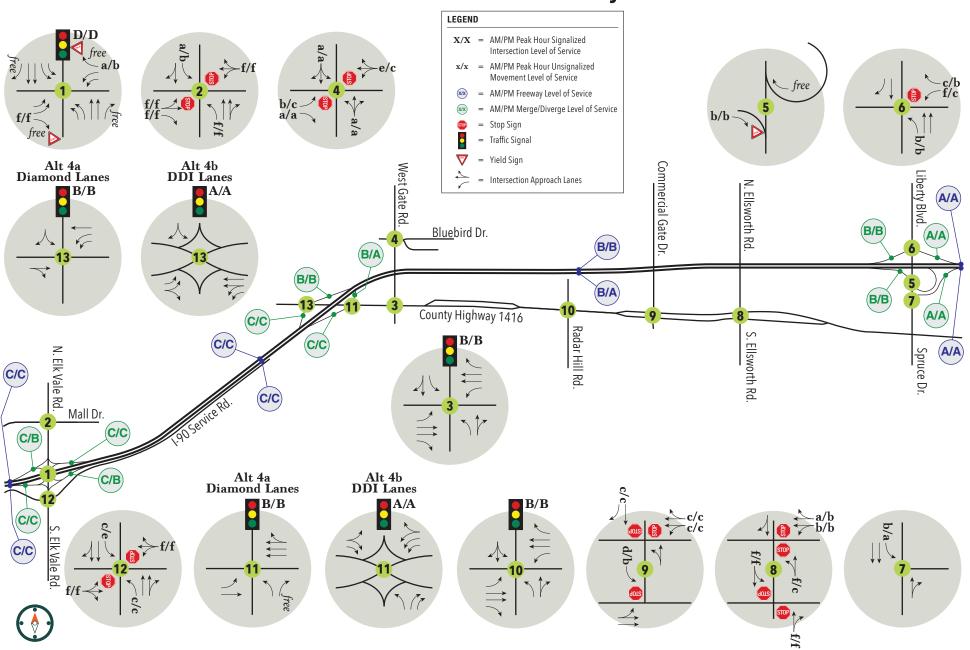


# Alternative 1 2045 Projected Traffic Conditions



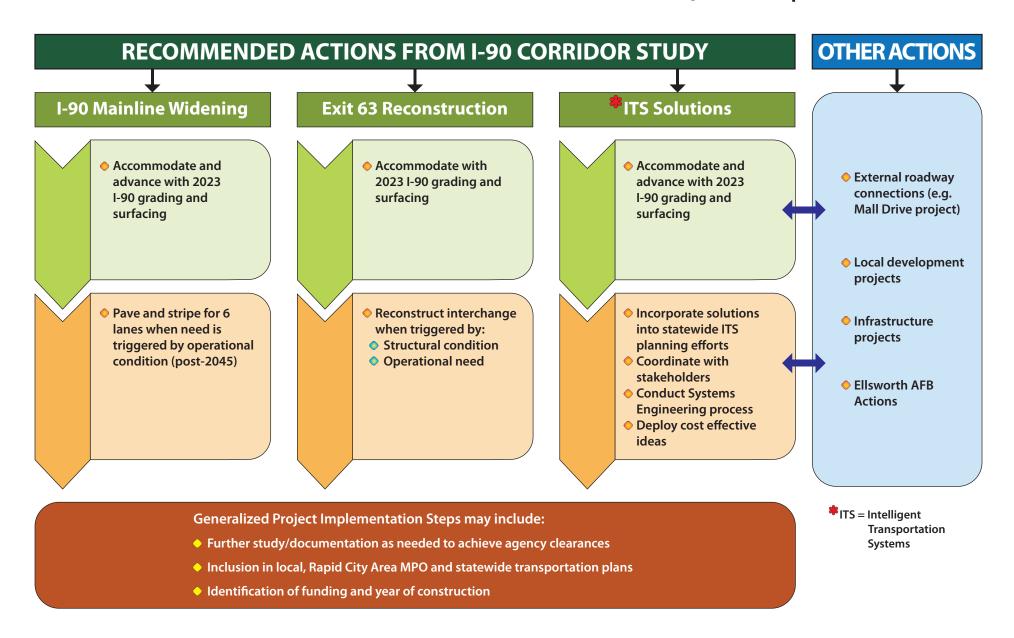


# Alternatives 4a and 4b 2045 Projected Traffic Conditions





# Study Area Project Implementation





### **Next Steps**

- Update Rapid City Area MPO Committees 9/14
- Incorporate public and MPO input
- Formulate final recommendations
- Develop draft and final reports

#### Ongoing input appreciated!

- Visit the project website at <a href="https://www.i90corridor61to67.com">www.i90corridor61to67.com</a>
  - Contact the project team
  - Fill out a comment card



### I-90 Corridor Exit 61 to Exit 67 Corridor Study

## OPEN HOUSE PORTION