I-90 Exit 59 (La Crosse Street)

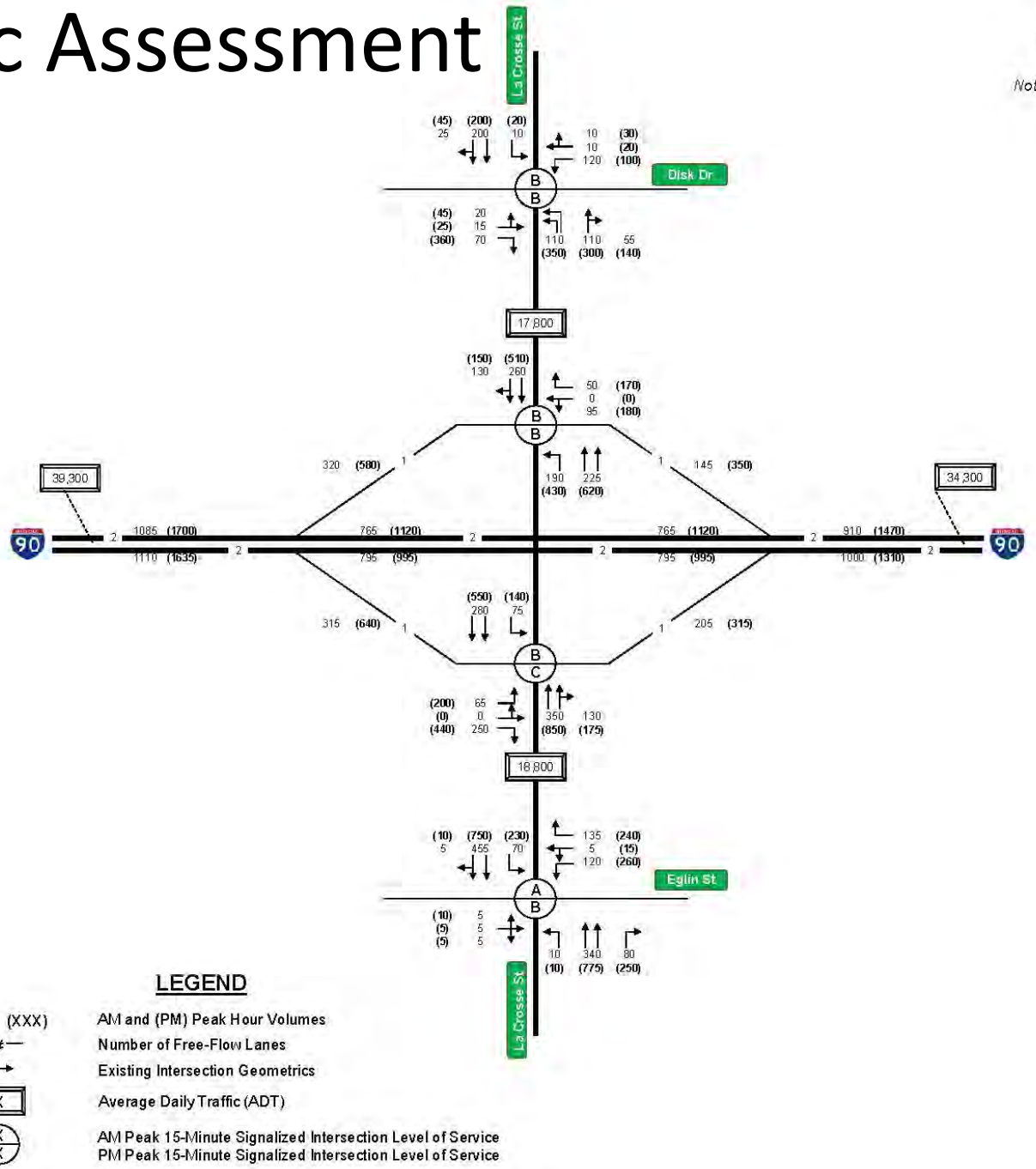
Interchange Options Study

Public Open House #2

February 12, 2014: 5:30 PM – 7:00 PM

Existing Traffic Assessment

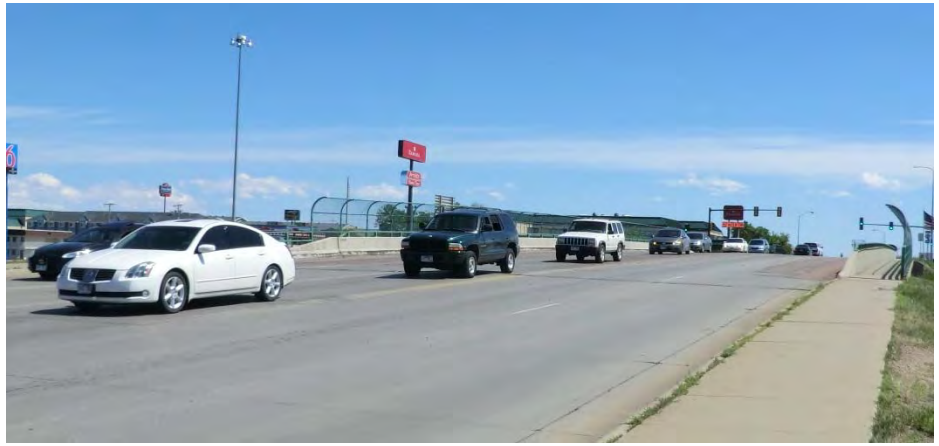
- All Study Area Intersections Operate at Level of Service ‘C’ or Better

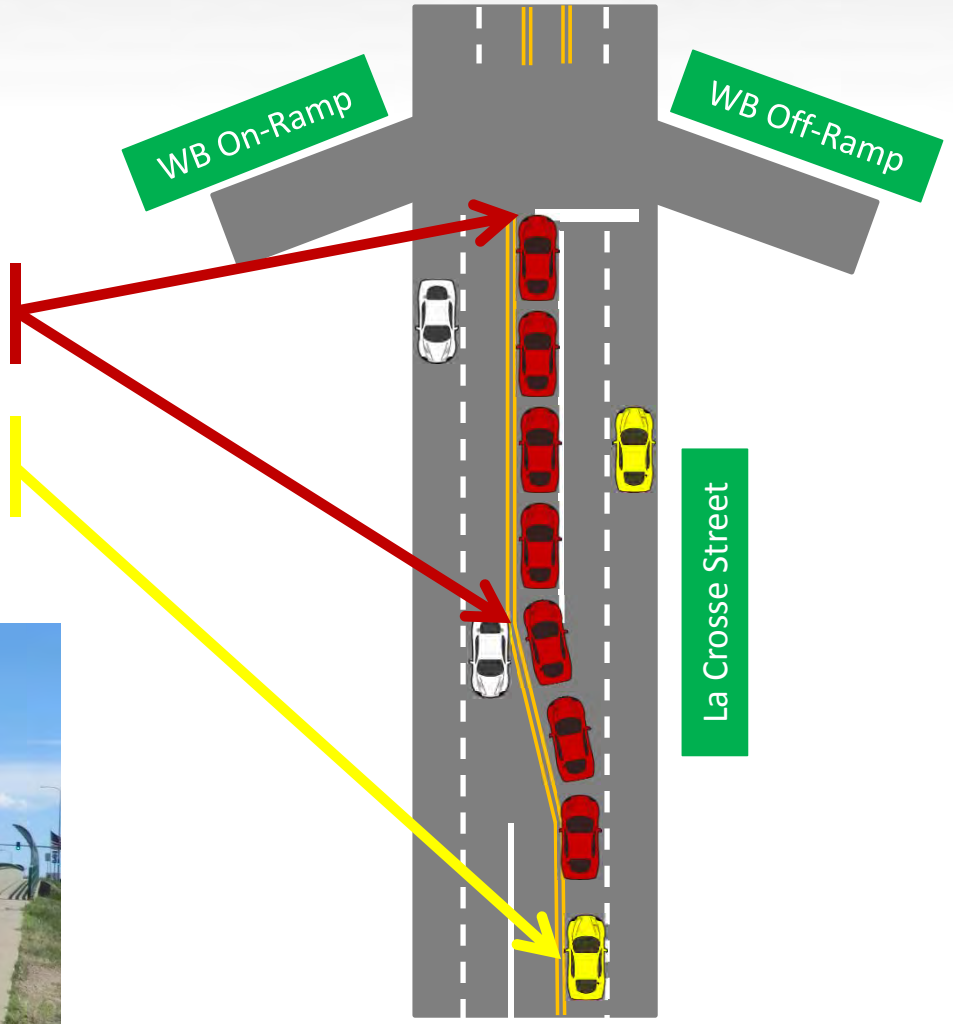


Existing Traffic Assessment

La Crosse Street / I-90 Westbound Ramp

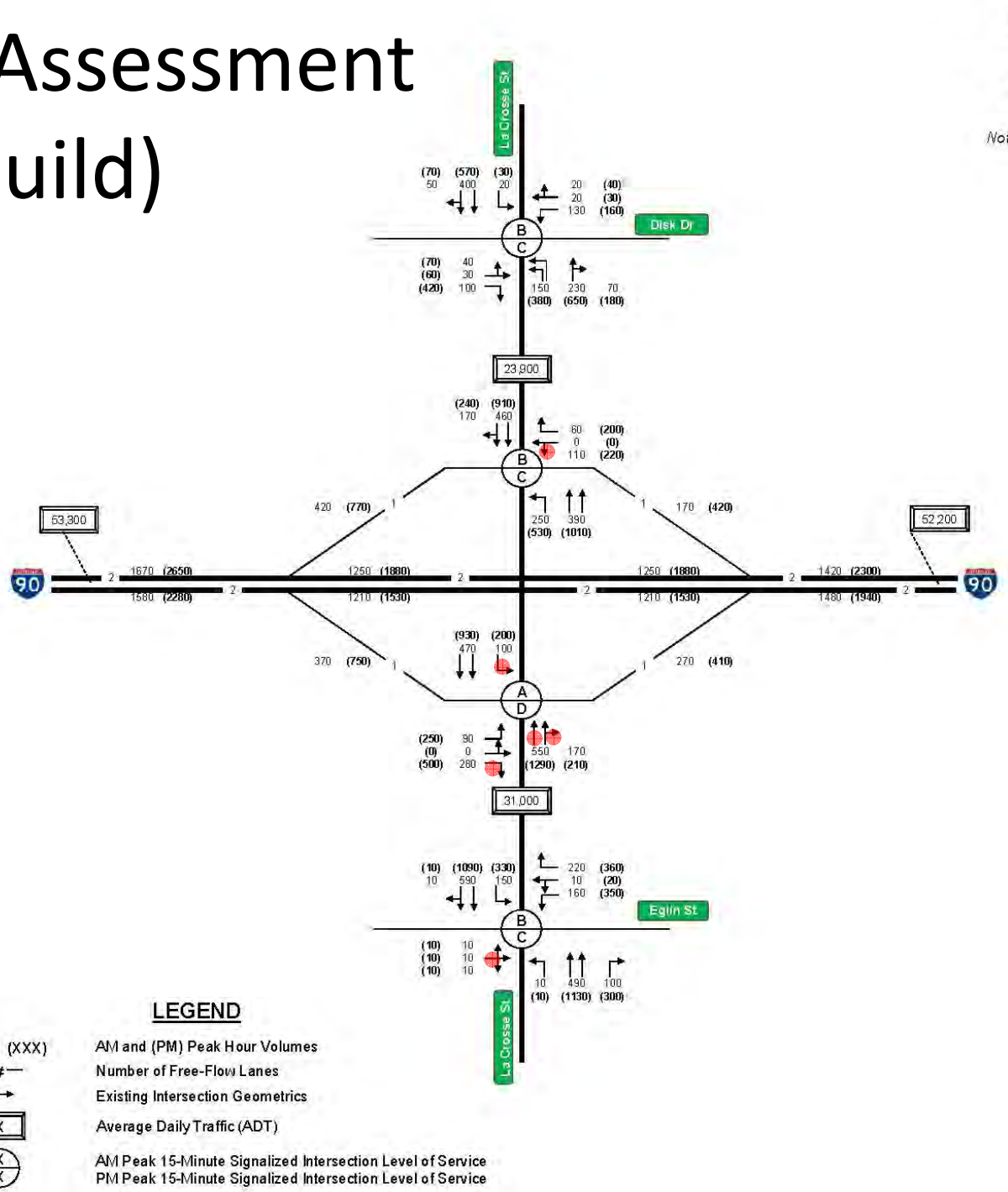
- Northbound Left Turn Vehicles Exceed Capacity
- Blocks Northbound Inside Through Lane





2035 Traffic Assessment (No-Build)

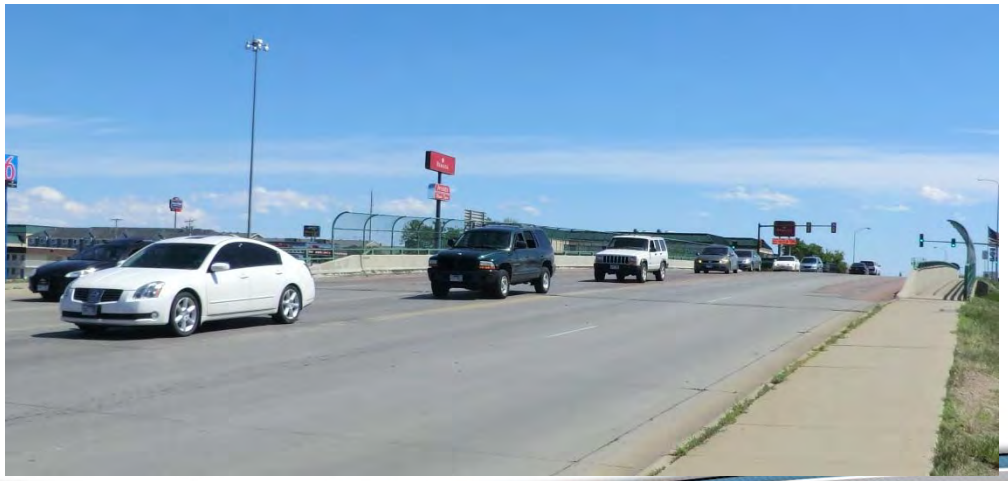
- Traffic Volumes Projected to Increase between 35% to 65% on La Crosse by 2035
- La Crosse/I-90 Eastbound Ramp Intersection – LOS 'D' (PM Peak)
- Multiple Individual Movements LOS 'F' (PM Peak)

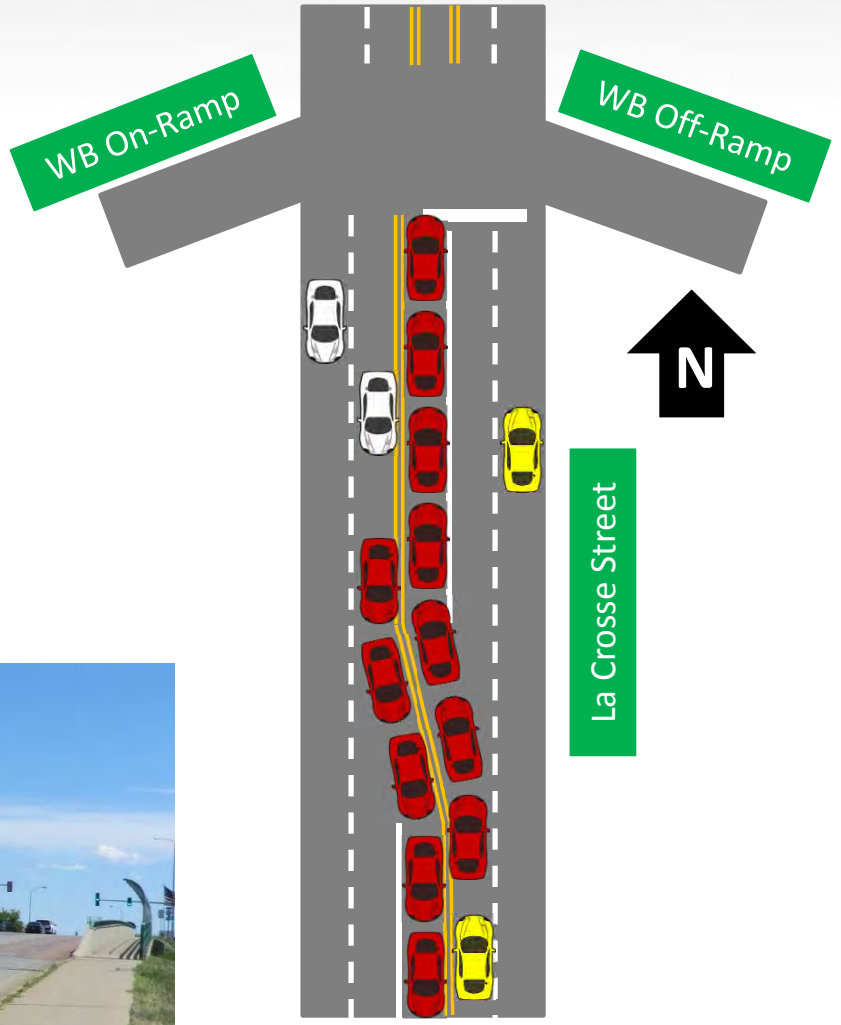


2035 Traffic Assessment (No-Build)

Vehicle Queue Exceeds Available Storage at Multiple Locations:

- La Crosse Street/I-90 EB Ramps
  - Eastbound Left/Right Turn Lanes
  - Southbound Left Turn Lane
- La Crosse Street/I-90 WB Ramps
  - Northbound Left Turn Lane





N

SCALE IN FEET

0 200 400

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Existing Parcel Boundaries
- Potential Property Impact

Rushmore Mall

N. Maple Ave.

Hobby Lobby

Country Inn And Suites

La Crosse Street

E. Mall Dr.

Denny's

Boston's

E. Disk Dr.

Best Western Ramkota

Best Buy /Auto

Burger King

Super 8

Econo Lodge

Holiday Inn

E. Disk Dr.

90

Karls Furniture

Knollwood Dr.

N. Maple Ave.

Grand Gateway Hotel

Foothills Inn

La Crosse Street

Ramada

Funiture Row

Eglin St.

90

Interchange Option 1

La Crosse St Diamond Interchange
Widening the Existing Structure
Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 1

February 2014

N

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

150 '

100 '

La Crosse St.

Ramada

Eglin St.

INTERSTATE 90

Best Western Ramkota

See Inset

Best Buy Auto

138 '

E. Disk Dr.

La Crosse St.

168 '

Burger King

Super 8

Econo Lodge

221 '

Alternative Ramkota Entrance

Interchange Option 1

La Crosse St Diamond Interchange
Widening the Existing Structure
Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 2

February 2014

N

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

Best Western Ramkota

Best Buy Auto

Ramada

Burger King

Super 8

Econo Lodge

129'

102'

224'

250'

YIELD

INTERSTATE 90

La Crosse St.

Eglin St.

E. Disk Dr.

Interchange Option 2a

La Crosse St Single Point Urban Interchange
Interchange with New Structure

Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 3

February 2014

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

Best Western Ramkota

See Inset

Best Buy Auto

Alternative Ramkota Entrance

221'

129'

141'

118'

250'

E. Disk Dr.

La Crosse St.

La Crosse St.

Ramada

Burger King

Super 8

Econo Lodge

Eglin St.

INTERSTATE 90

INTERSTATE 90

Interchange Option 2b

La Crosse St Single Point Urban Interchange
Interchange with New Structure

Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 4

February 2014

N

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

Best Western Ramkota

Ramkota

See Inset

Best Buy Auto

Alternative Ramkota Entrance

221'

129'

141'

118'

250'

E. Disk Dr.

La Crosse St.

Ramada

Burger King

Super 8

Econo Lodge

Eglin St.

INTERSTATE 90

YIELD

Interchange Option 2c

La Crosse St Single Point Urban Interchange
Interchange with New Structure

Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 5

February 2014

N

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

100'

Best Western Ramkota

Best Buy Auto

197'

E. Disk Dr.

La Crosse St.

378'

Ramada

128'

Burger King

Super 8

Econo Lodge

Eglin St.

INTERSTATE 90

Interchange Option 3a

La Crosse St DDI Interchange
Utilizing Existing Structure
Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 6

February 2014

N

SCALE IN FEET

0 150 300

Legend

- Roadway Construction
- Median Construction
- Bridge Construction
- Sidewalk Construction
- Retaining Wall
- Existing Parcel Boundaries
- Access Closure
- Existing Control of Access
- Proposed Control of Access
- Potential Property Impact

Grand Gateway Hotel

Foothills Inn

AT&T

Common Cents

100'

108'

La Crosse St.

Ramada

Eglin St.

INTERSTATE 90

Best Western Ramkota

Best Buy Auto

E. Disk Dr.

102'

167'

Burger King

Super 8

Econo Lodge

Interchange Option 3b

La Crosse St DDI Interchange
Utilizing Existing Structure

Interstate 90/La Crosse Street Interchange Study
Rapid City, South Dakota

Figure 7

February 2014