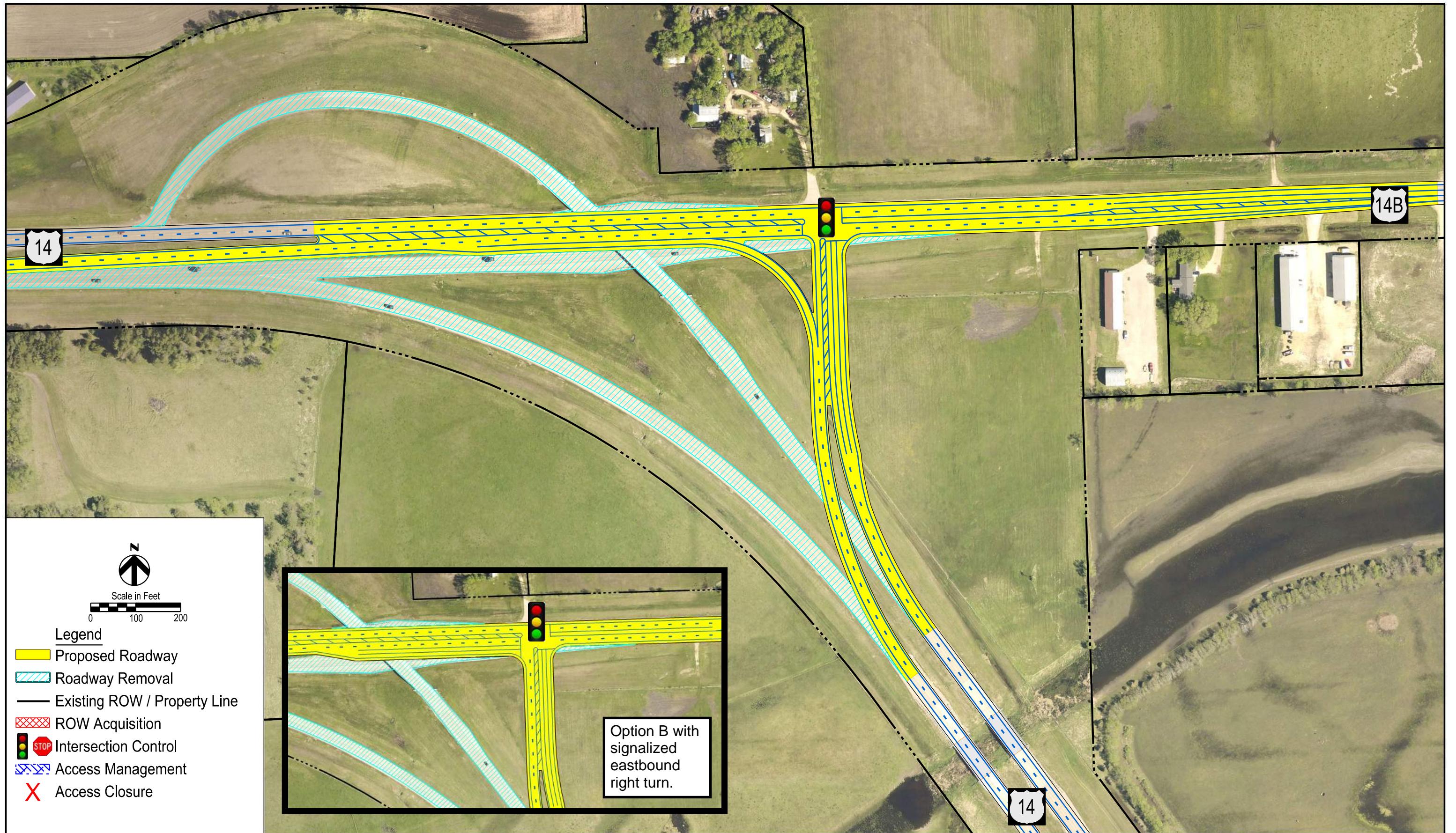


US14/US14 Bypass (West) Intersection

Intersection Option B: At-grade 'T' Intersection

Scenario includes:

- Removal of grade separated interchange.
- Construct at-grade 'T' intersection to maximize spacing from 469th Avenue.
 - Two eastbound right-turn options: free or signalized.



Legend

- Proposed Roadway
- Roadway Removal
- Existing ROW / Property Line
- ROW Acquisition
- Intersection Control
- Access Management
- Access Closure

Drawn By: B. Martishius
 Date: 10/14/2019
 Chkd By:
 Date:
 Revision:



US14 - Volga to US14 Bypass Scenarios
 US14/US14B (West) At-Grade T Intersection
 US14 / US14B Corridor Study

Brookings, SD

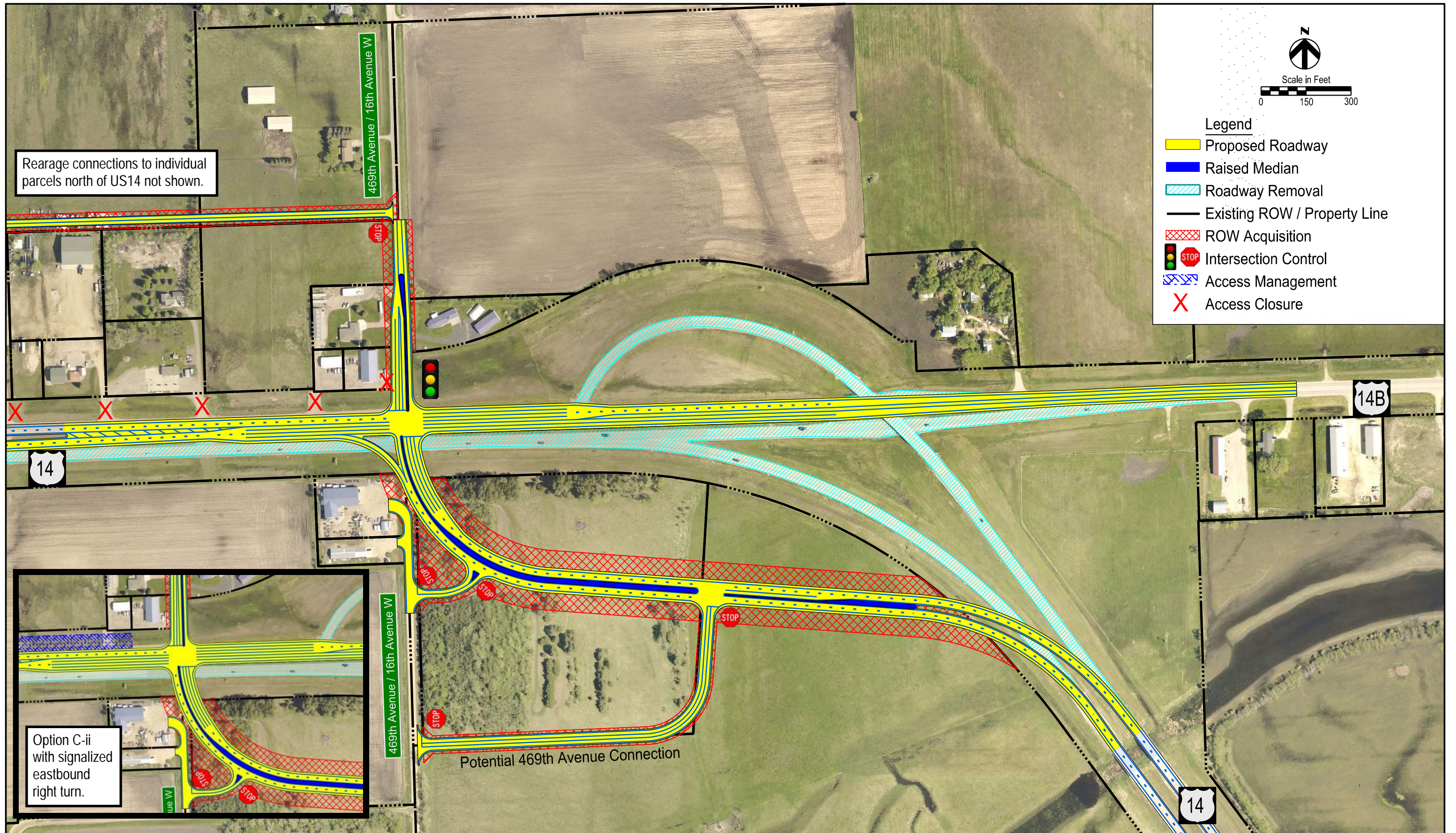
Figure
 US14/US14 Bypass (West) Intersection -
 Option B

US14/US14 Bypass (West) Intersection

Intersection Option C-ii: At-grade Intersection at 469th Avenue

Scenario includes:

- Removal of grade separated interchange.
- Reroute US14 to 469th Avenue and construct 4-leg at-grade intersection.
 - Two eastbound right-turn options: free or signalized.
- Rearrage option shown north of US14 to remove access points within vicinity of the new intersection.
- New connection between US14 and 469th Avenue south.



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US14 - Volga to US14 Bypass Scenarios
US14/US14B (West) At-Grade Intersection at 469th Avenue

US14 / US14B Corridor Study

Brookings, SD

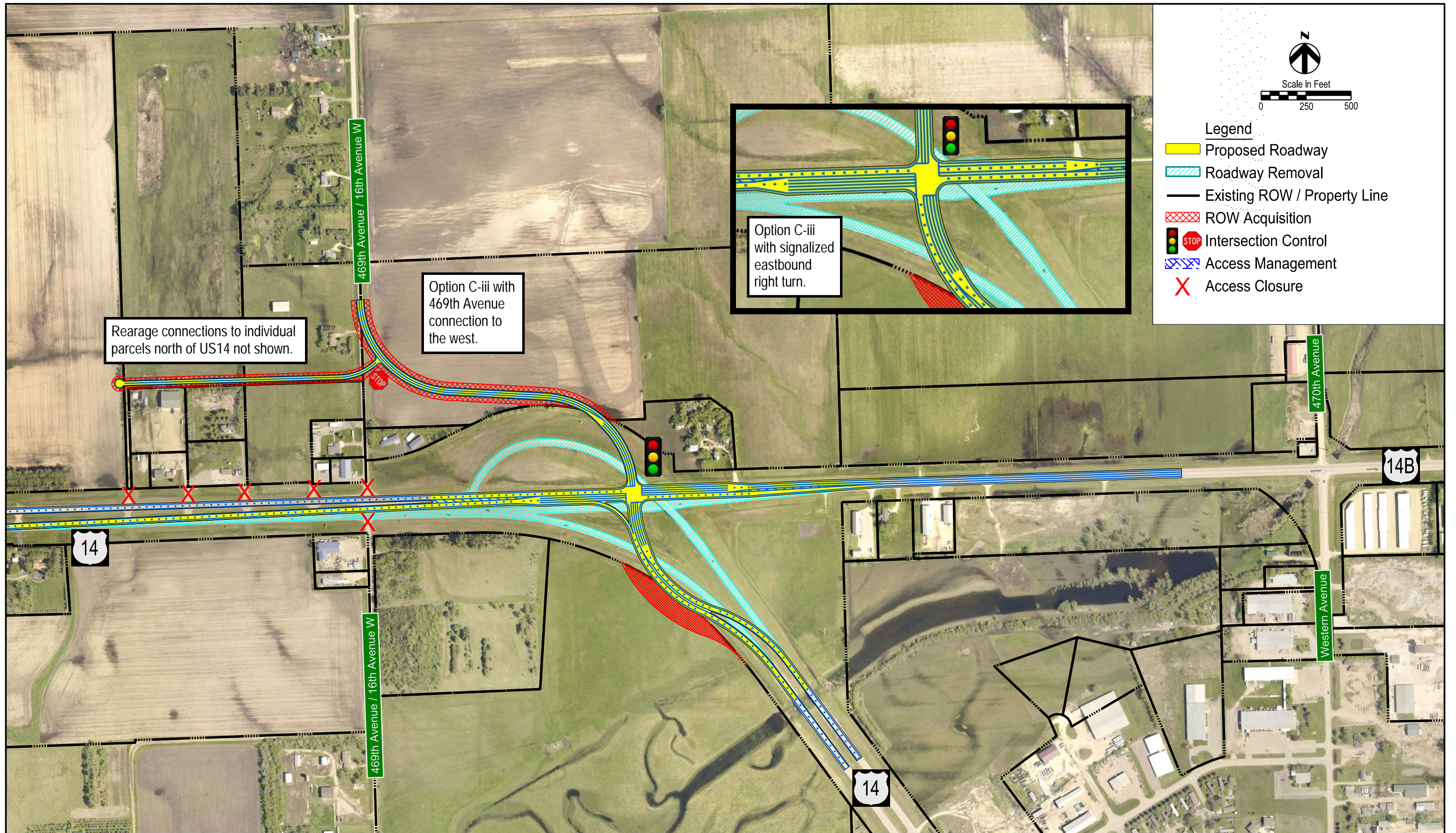
Figure
US14/US14 Bypass (West) Intersection -
Option C-ii

US14/US14 Bypass (West) Intersection

Intersection Option C-iii (west): At-grade Intersection with 469th Avenue Connection (west)

Scenario includes:

- Removal of grade separated interchange.
- At-grade 4-leg intersection in vicinity of existing US14 alignment into Brookings.
 - Two eastbound right-turn options: free or signalized.
- Tight east-west 469th Avenue north connection to minimize property impacts.
- 469th Avenue (north) connection straight west from intersection.
- Rearage option shown north of US14 to remove access points within vicinity of the new intersection.



U.S. Department of Transportation
Federal Highway Administration

US14 - Volga to US14 Bypass Scenarios
US14/US14B (West) At-Grade Intersection with 469th Avenue Connection (West)

US14 / US14B Corridor Study

Brookings, SD

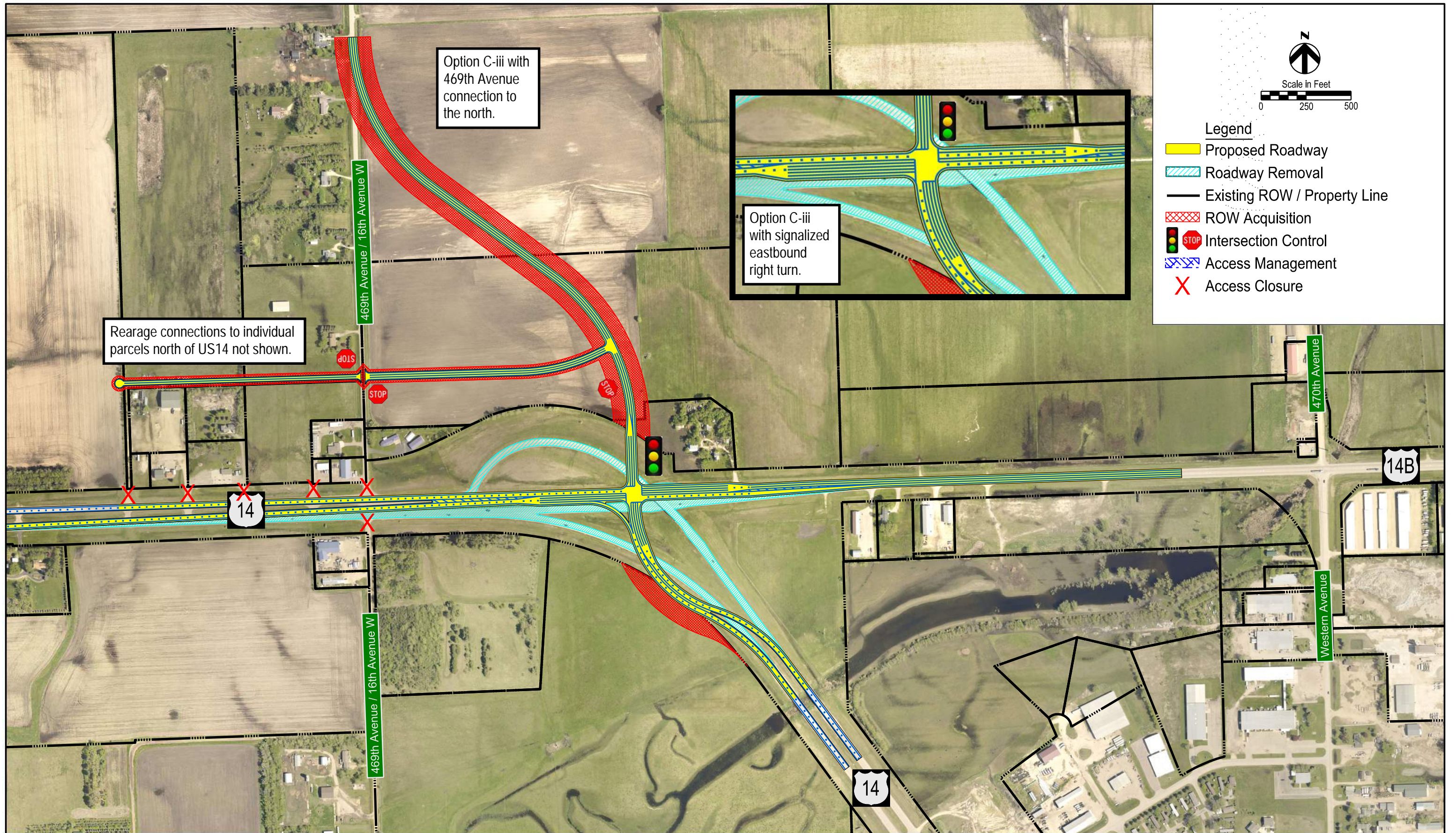
Figure
US14/US14 Bypass (West) Intersection -
Option C-iii (west)

US14/US14 Bypass (West) Intersection

Intersection Option C-iii (north): At-grade Intersection with 469th Avenue Connection (north)

Scenario includes:

- Removal of grade separated interchange.
- At-grade 4-leg intersection in vicinity of existing US14 alignment into Brookings.
 - Two eastbound right-turn options: free or signalized.
- 469th Avenue (north) connection sweeping north from intersection.
- Rearage option shown north of US14 to remove access points within vicinity of the new intersection.



US14 - Volga to US14 Bypass Scenarios
 US14/US14B (West) At-Grade Intersection with 469th Avenue Connection (North)
 US14 / US14B Corridor Study

Brookings, SD

Figure
 US14/US14 Bypass (West) Intersection -
 Option C-iii (north)

US14/US14 Bypass (West) Intersection Scenarios

Intersection Improvement Options:

Option B: At-grade 'T' Intersection

Option C-ii: At-grade Intersection at 469th Avenue

Option C-iii (west): At-grade Intersection with 469th Avenue Connection (west)

Option C-iii (north): At-grade Intersection with 469th Avenue Connection (north)

Preliminary Summary Matrix

Scenario	2050 Traffic Operations			Predictive Safety		ROW & Costs			Environmental Resources
	Intersection Operations	Route Connectivity and Continuity	North/south traffic need to travel on US14?	F&I Crashes	Total Crashes	ROW Acquisition	Construction & ROW Costs	Impact to Private Property	Potential Impacts
	LOS AM / PM	5 - Best 3 - Middle 1 - Least	Yes / No	Average Annual # Crashes	Average Annual # Crashes	Acres	\$ mil	5 - least 3 - middle 1 - most	Low, Medium, High
Option B	A / B	3	Yes	2.6	8.1	< 0.5	\$4.0	5	Low
Option C-ii	B / C	5	No	1.7	5.9	14.5**	\$8.0	5	Low
Option C-iii (west)	B / C	4	No	1.6	5.2	7.0	\$8.0	3	Low
Option C-iii (north)	B / C	4	No	1.6	5.2	18.5***	\$11.0	2	Low
No Build	A / A*	2	No	5.0	9.8	0	0	5	Low

* Does not provide for all movements.

** Primarily State of South Dakota property.

*** Primarily South Dakota State University property; land currently designated as essential to their mission as a land grant university.