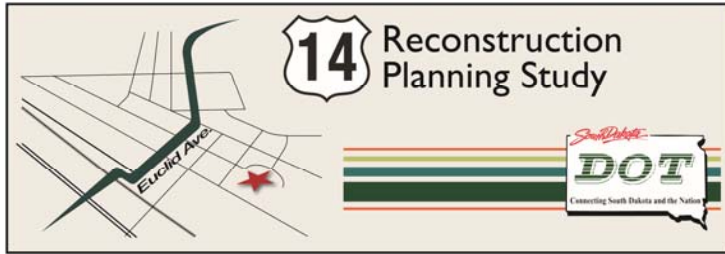


# Public Open House August 29, 2017



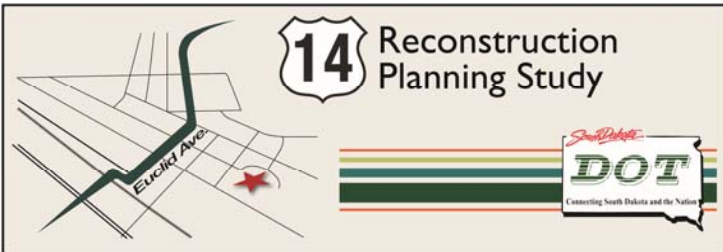


# Public Open House

## August 29, 2017

## WELCOME!

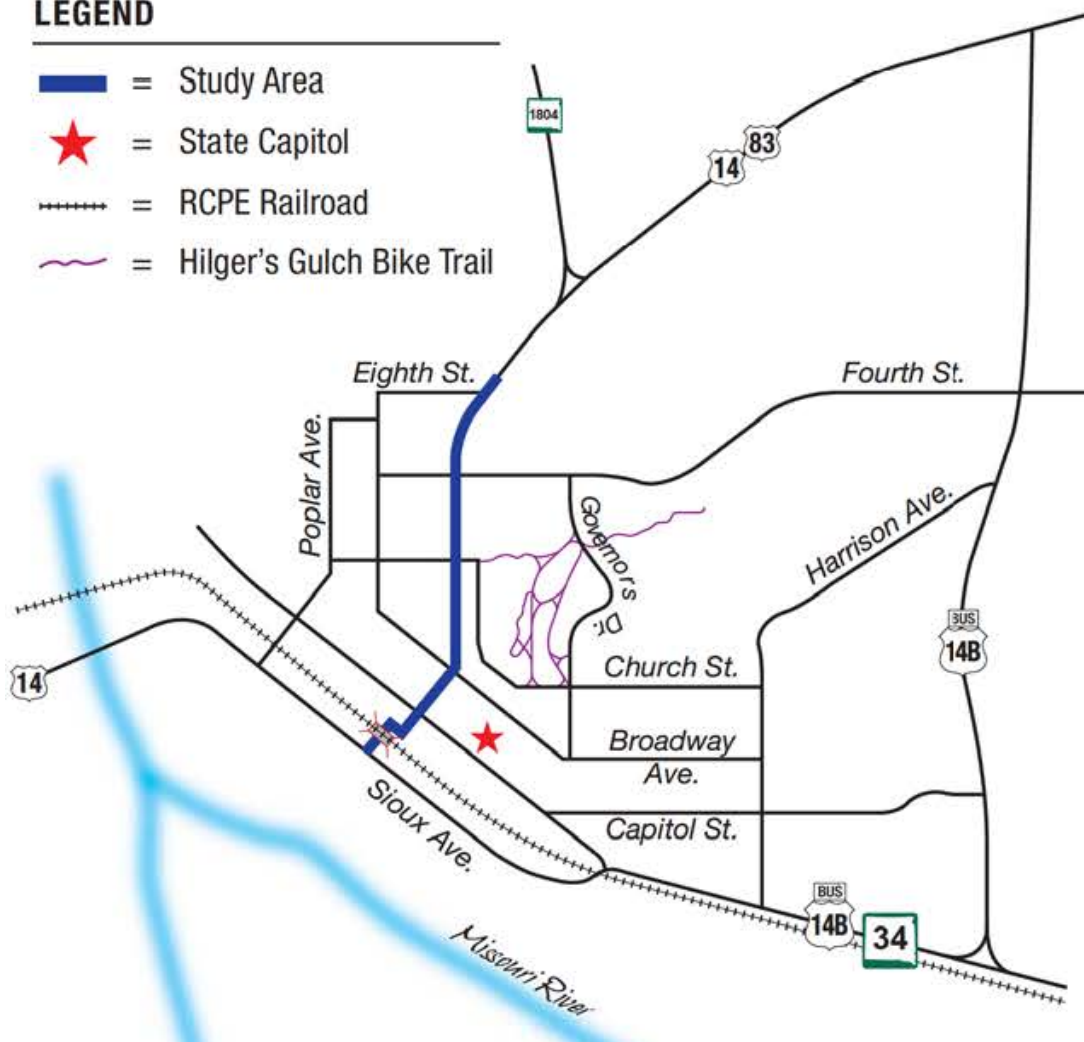
- Pierre US-14 (Euclid Ave.) Reconstruction Planning Study
- Project No. NH 0014(185)229, PCN 026Z
- The goals of today's meeting are to:
  - Share the plans developed since first meeting
  - Answer your questions
  - Get your further input on design

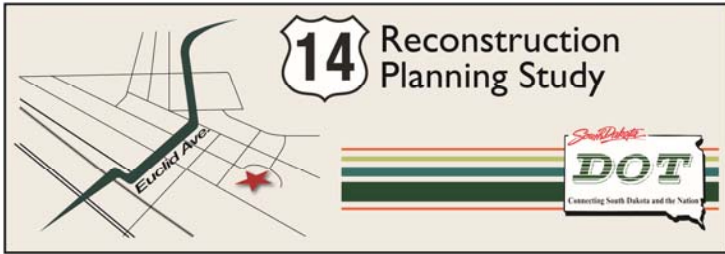


# Study Area

## LEGEND

-  = Study Area
-  = State Capitol
-  = RCPE Railroad
-  = Hilger's Gulch Bike Trail





# Project Purpose & Need

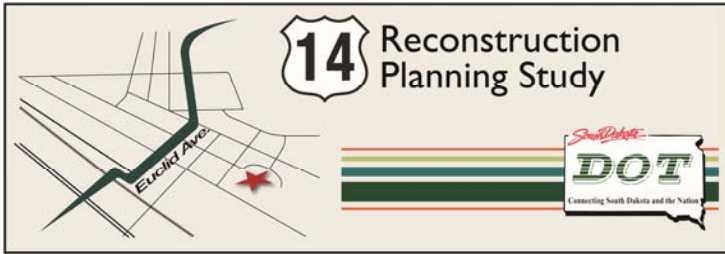
## Purpose of the Project:

- Maintain the pavement infrastructure
- Increase the safety for all road users
- Reduce driver delay

## Need for the Project:

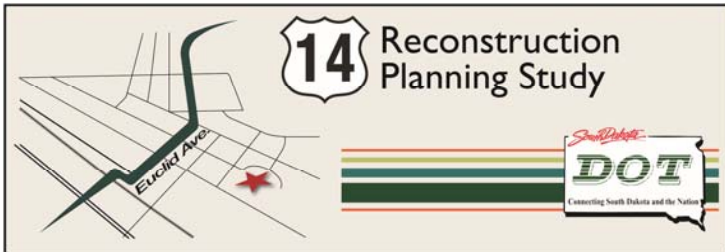
- Existing asphalt surface is 21 years old
- Underlying pavement and storm sewers are 50-86 years old
- Crash Issues to address
- Lack of ADA accessibility





# Public Information Meeting June 1, 2017

- **First Public Meeting Summary:**
  - Attendance (31 sign-ins)
  - Comments (11 verbal / 19 written)
  - Alternative preferences
    - Alternative 4
    - Alternatives 3 & 5 (tie)
    - Alternatives 1 & 2 (tie)
  - Roundabout at 4<sup>th</sup> Street
    - 13 in favor
    - 4 against



# Screening Alternatives

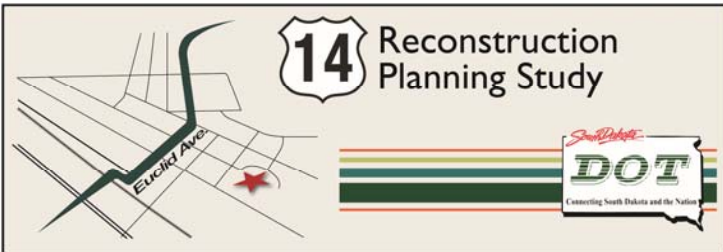
## Pierre US-14 Euclid Avenue Alternatives Screening

7/19/2017

ALTERNATIVE	LANES	STREET WIDTH (FEET)	PARKING	PEDESTRIAN SAFETY (WIDTH - FT)	BIKE PROVISIONS	CONSTRUCTION COST ESTIMATE	BENEFITS CRASH REDUCTION	MEETS PURPOSE & NEED	IMPACTS	PUBLIC SUPPORT
Existing	4	68	Both Sides	62/68	None	N/A	N/A	No	Pavement Failures	None
1	4	64	Both Sides	50/50	None	\$8,453,000	-\$225,500	No		Drop (4)
2	5	68	Only One Side	57/61	None	\$8,720,000	-\$73,500	Partial	Parking Loss	Drop (4)
3	3	64	Both Sides	50/50	Added Width	\$8,453,000	\$2,819,000	Yes		Drop (3) Keep (1)
4	3	54	Both Sides	40/40	Trail East Side	\$8,033,000	\$2,819,000	Yes		Keep (5)
5	3	54	Both Sides	40/40	None	\$7,567,000	\$2,819,000	Partial		Drop (2)

Best
Better
Less
Least

\*\* ALL MEET 2045 VOLUME / CAPACITY NEEDS AT LOS B / C

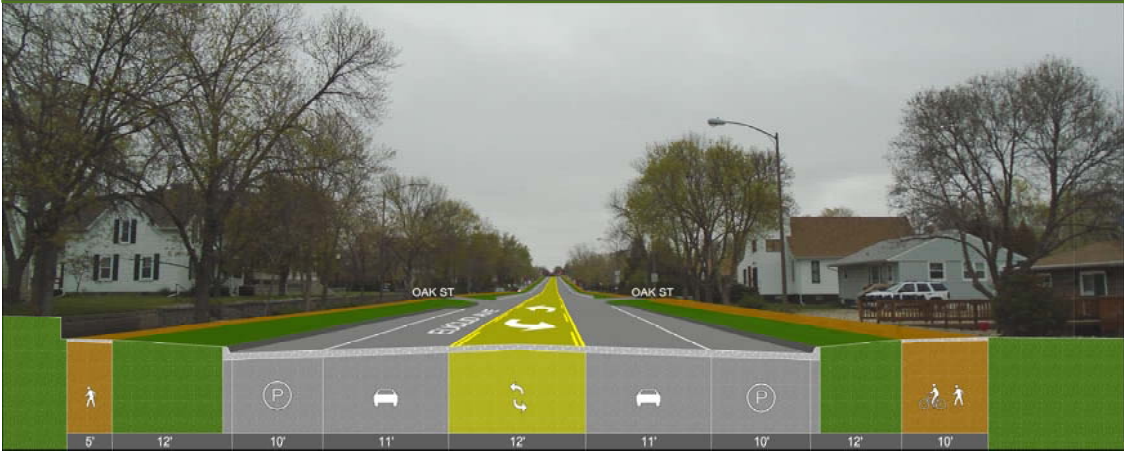


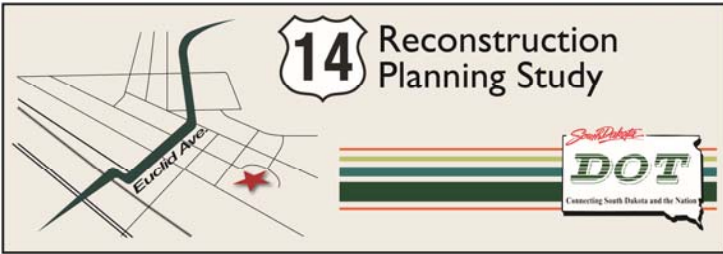
# Public Information Meeting June 1, 2017

Proposed 3-lane Section - 64'  
Alternative 3 (50' At Intersections W/ Bulb-outs Each Side)



Proposed 3-lane Section - 54'  
Alternative 4 (40' At Intersections W/ Bulb-outs Each Side & Bike Trail East Side)





# Benefits of 3-Lane Design

- **Vehicle Safety**

- Removes left turners from thru lane
- Reduces number of potential crash points
- Calms traffic with adequate capacity

- **Pedestrian Safety and Comfort**

- Fewer lanes to cross
- Slower speeds
- Increased buffer – sidewalk to traffic



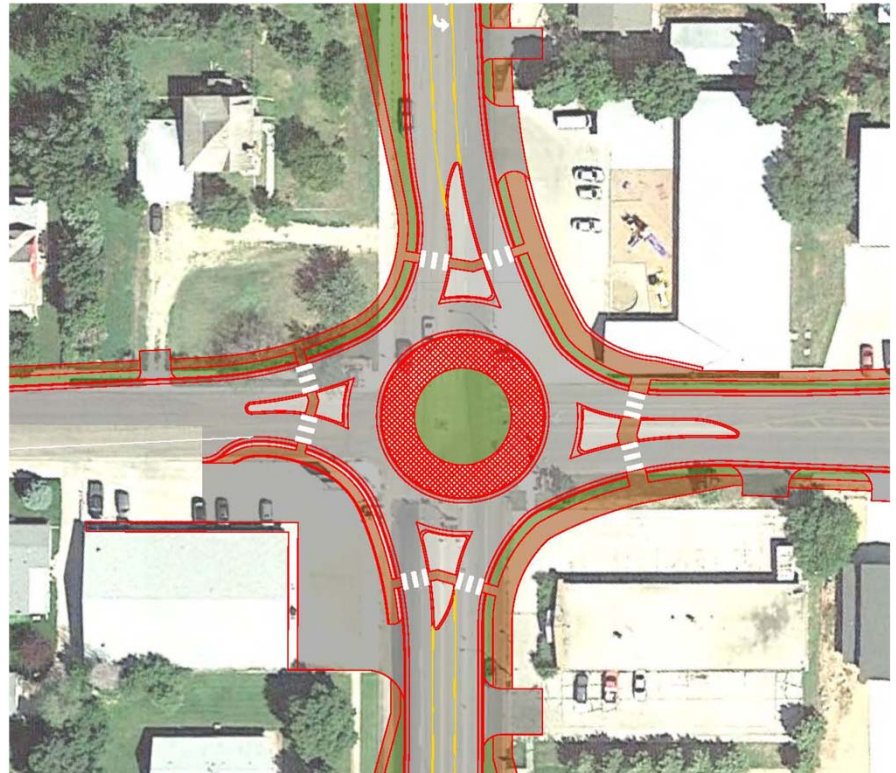


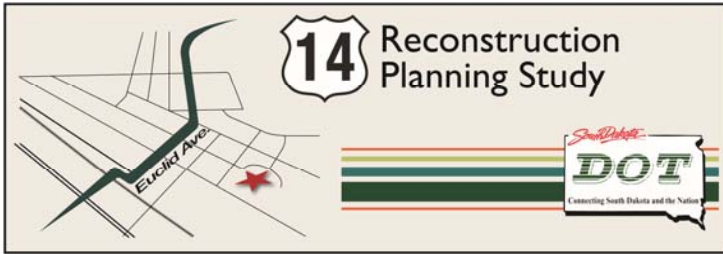


# Euclid at 4<sup>th</sup> Street Roundabout

## • Benefits of 4<sup>th</sup> Street Roundabout:

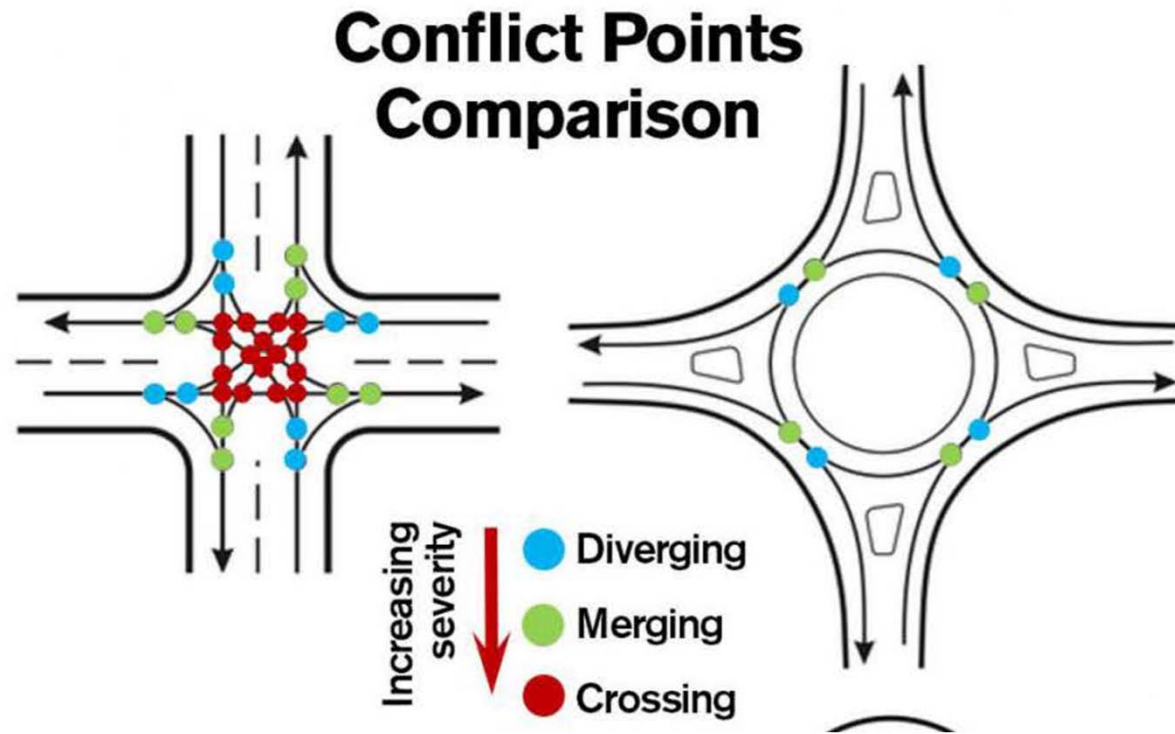
- Visual gateway to lower speed urban area
- Reduce delay to 4<sup>th</sup> Street traffic
- Benefits in less delay – \$1,500,000
- Projected cost – \$415,000
- Benefit / Cost Ratio – 3.61

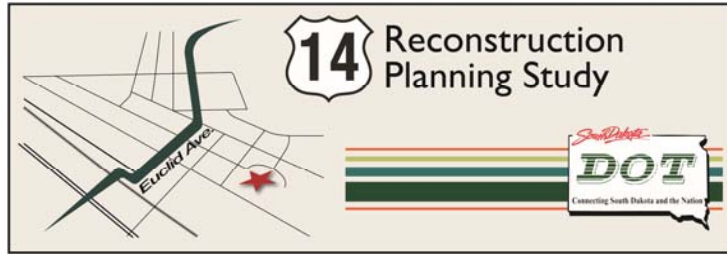




# Conventional Intersections vs. Roundabouts

- Roundabouts increases safety by:
  - Reducing Vehicle Conflict Points from 32 to 8
  - Eliminating potential for most severe crashes
    - Head-on
    - Right angle
    - Left turns

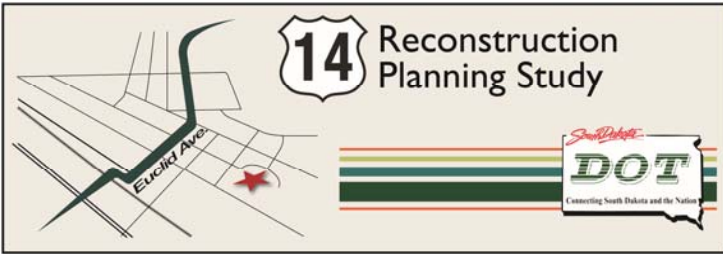




# Potential Roundabout Euclid at 4<sup>th</sup> Street

- Roundabouts also increase safety:
  - Reduce injury crashes 76%
  - Reduce overall crashes by 35%

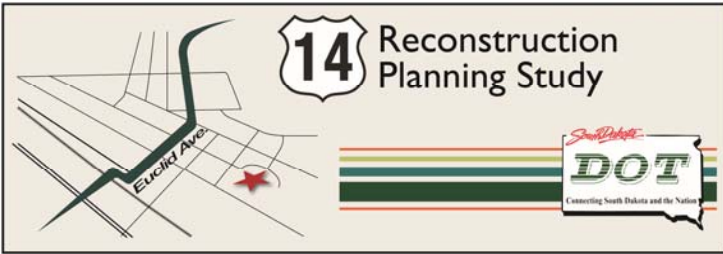




# Traffic Signal Euclid at Elizabeth Street

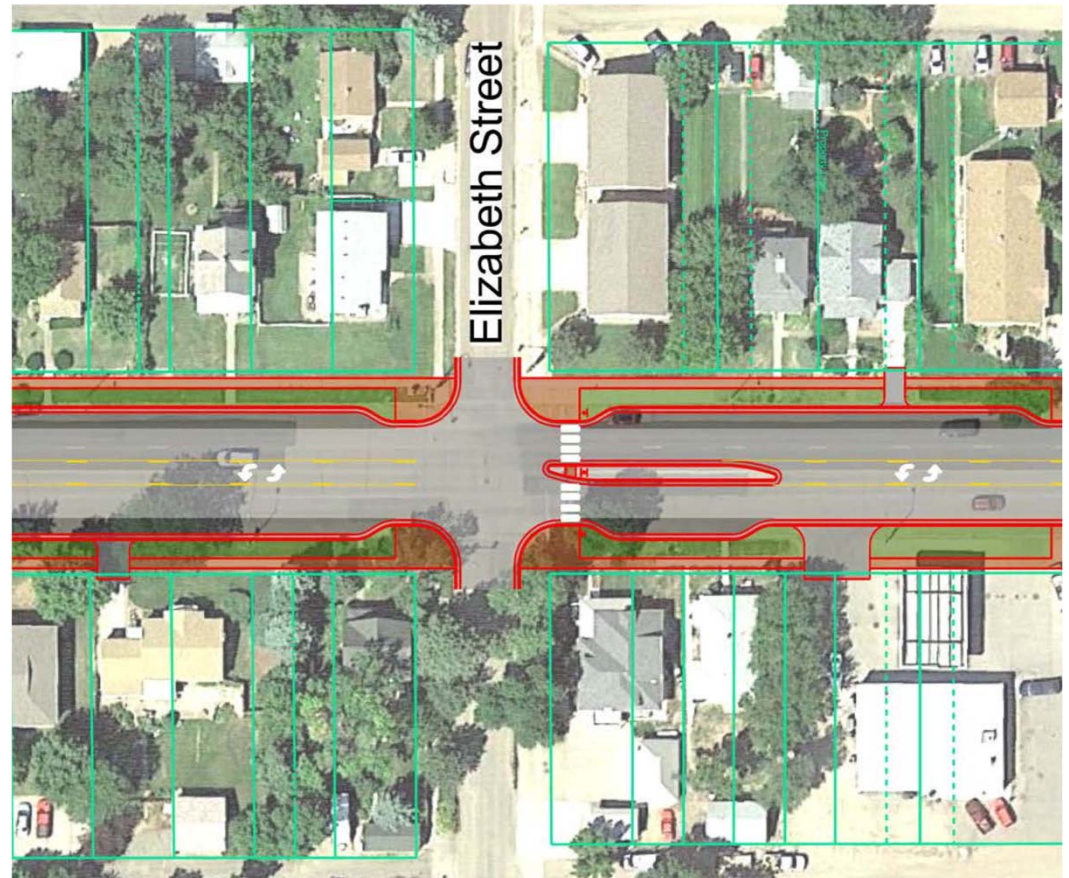
- Existing Traffic Signal Does Not meet:
  - National standards for need

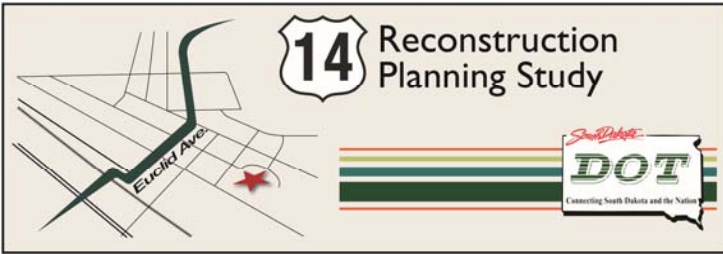




# Traffic Signal Euclid at Elizabeth Street

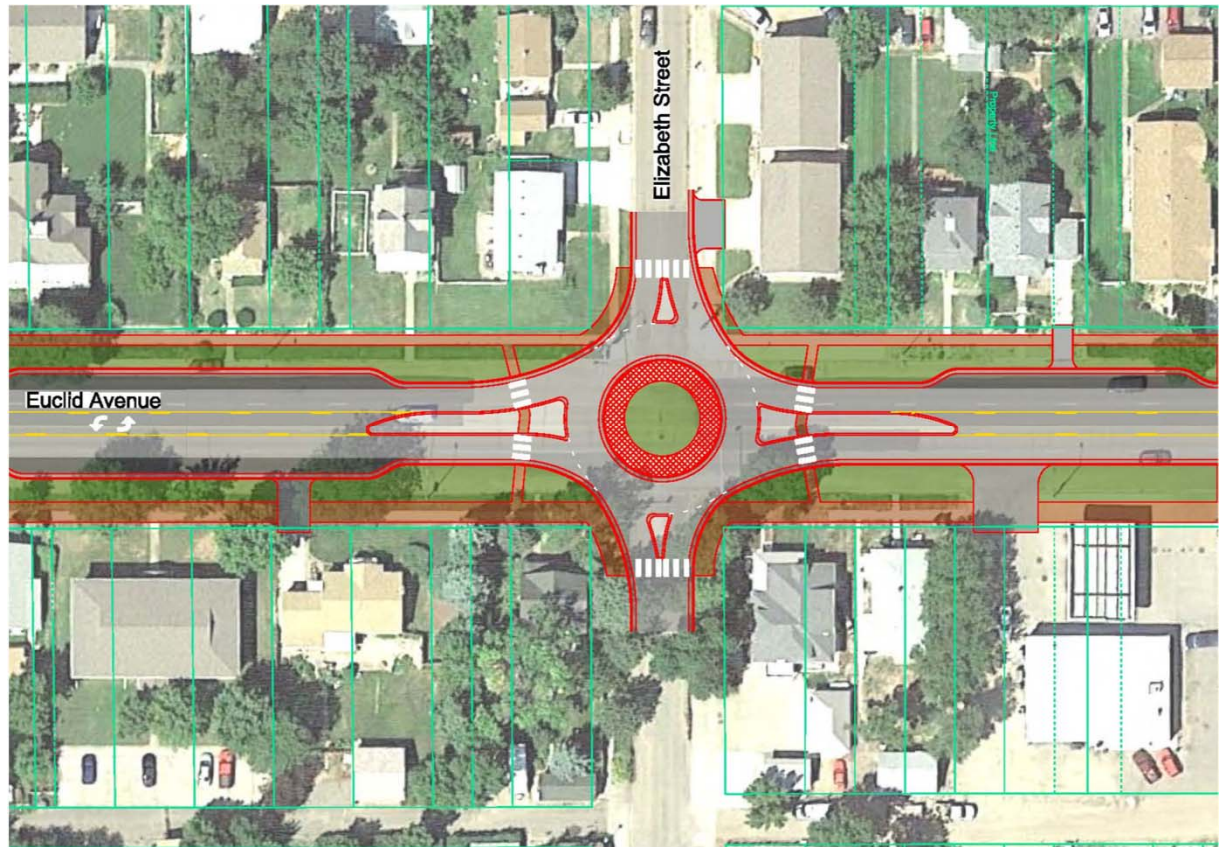
- National standards Alternatives:
  - Flashing Beacon with center island

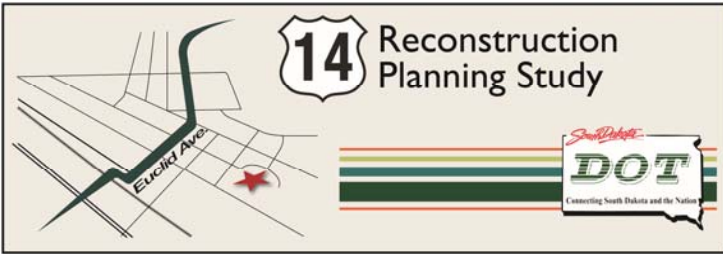




# Traffic Signal Euclid at Elizabeth Street

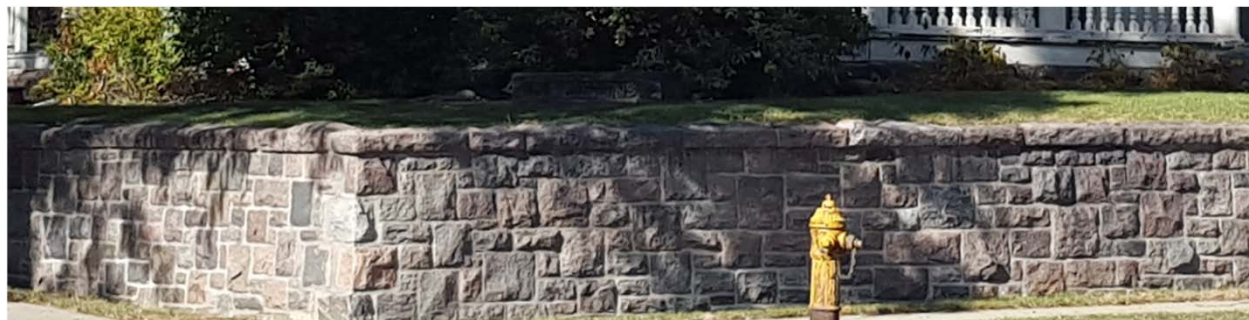
- National standards Alternatives:
  - Roundabout

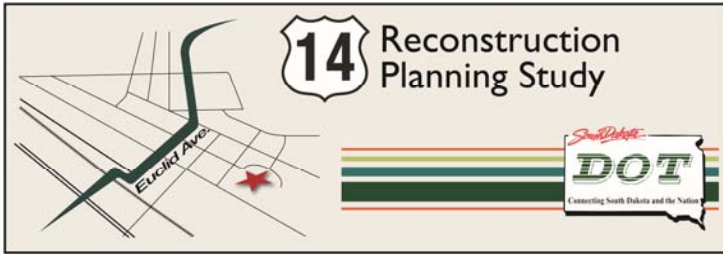




# Environmental Investigations

- Section 4(f) & 6(f) resources
- Cultural resources:
  - Archeological
  - Historic structures
  - Historic districts
  - Retaining walls



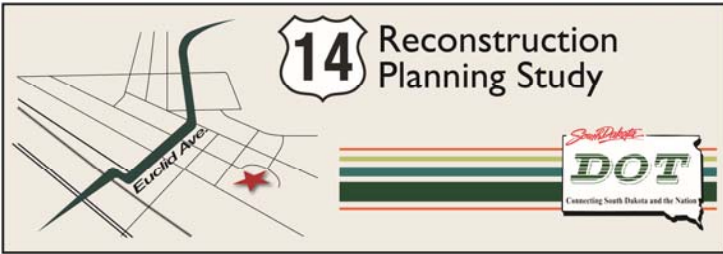


# Study Work Flow

## Where do we go from here?

- Next Steps:
  - Review public comments
  - Screen down to single build alternative
  - Refine concept plans
  - Update cost estimates
  - Evaluate environmental impacts
  - Present results in a Final Report





# Your Input is Critical



Project No. NH 0014(185) 229 PCN026Z

## INFORMATION OPEN HOUSE August 29, 2017 - Pierre, South Dakota

**We want to hear what you think!** What concerns do you have along the study corridor? What should the study team consider regarding living, working, or travelling near US-14 (Euclid Ave)?

Please return to the sign-in table or send comments to the below contact by **September 8, 2017**:

**Mail:** Rick Haden, Project Manager  
Felsburg Holt & Ullevig  
321 S. 9<sup>th</sup> Street  
Lincoln, NE 68508

**E-mail:** [rick.haden@fhueng.com](mailto:rick.haden@fhueng.com)  
**Phone:** (402) 438-7530

**Website:** [http://www.sddot.com/dot/publicmeetings/pubmeet\\_us14PierreSioux1804.aspx](http://www.sddot.com/dot/publicmeetings/pubmeet_us14PierreSioux1804.aspx)

Please identify any specific concerns or improvements that would be beneficial to include in the reconstruction of US-14 Euclid Avenue.

---

---

---

What alternative would you recommend be used for accommodating bicycle travel, extra wide outside lanes (Alternative 3) or a separate 10' wide multi-use trail on one side (Alternative 4)?

---

---

Reasons why?

