ITE 2016 Western District Annual Meeting
July 2016

Presented by:
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Executive Vice President
Felsburg Holt & Ullevig
Location/Background

- Southwest Lincoln
- Residential to south and east
- Industrial to north
- Lack of east/west connections
- Intersections have been studied for years
Project Area and Needs

[Map and images showing traffic congestion and project area with distances 400', 450', 400', 600']
### Project Area and Needs

#### CONFLICT POINTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crossing</td>
<td>80</td>
</tr>
<tr>
<td>Merging</td>
<td>14</td>
</tr>
<tr>
<td>Diverging</td>
<td>16</td>
</tr>
<tr>
<td>Existing</td>
<td>50</td>
</tr>
</tbody>
</table>

- 400’
- 600’
- 450’
- 80°

City of Lincoln, Nebraska
• Eight Project Goals
  • Enhance Safety
  • Increase Capacity
  • Minimize Right-of-way Impacts
  • Cost Effective
  • Multi-modal
  • Incorporate Sustainable Elements
  • Project Aesthetics & Placemaking
  • Schedule
Design Competition

- RFP gave eight goals, 5 month timeline and $125k budget per firm
- Attracted 8 Proposals representing 20 Firms
- Short-Listed and interviewed four groups
  - Innovative interview approach
- Selected three to bring forward solutions
- Used two others as technical support
  - Survey
  - Traffic Counts/Model Building

3 firms to compete over redesign of '14th/Warlick/Old Cheney'
Early Public Involvement

- Independent Public Involvement Specialist
- Front-Loaded and Collaborative Public Involvement
- Identified and Interviewed 38 Major Stakeholders
  - Public/Stakeholder comments mirrored the stated goals
- Consultant teams could attend Stakeholder Kick-off meeting, but only to observe
At-Grade Intersections
Elevated Roundabout
November 2012 – Large Public Meeting

- Over 400 attended
- 432 comments received
- 186 handwritten
- 246 online

Social media both helped and hurt the process

- Clear evidence exists that there was organized online campaign to skew the responses
  - 35 verbatim comments received
  - 38 exact copies of responses received within minutes of each other

Public split over which concept was the best solution
Approach to the Problem

- FHU Approach
  - Data Collection and Review
  - Internal Concept Development Workshop
    - Sketches, Concept Analysis
    - Initial Screening with City
  - Refinement of Concepts
  - Final Screening – 4 Concepts
# Final Concept Selection

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Evaluation Factors</th>
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<tbody>
<tr>
<td>Enhanced Safety</td>
<td>Increased Capacity*</td>
</tr>
<tr>
<td>No Build: Current W / Minimal Imp.</td>
<td>D/D</td>
</tr>
<tr>
<td>1 Most Recent 2006 Plan</td>
<td>D/D</td>
</tr>
<tr>
<td>2 NW Quadrant</td>
<td>C/D</td>
</tr>
<tr>
<td>5 Roundabout / T Signal Under (Flux Cap)</td>
<td>RB- B/B Sig: C/C</td>
</tr>
<tr>
<td>7 14th Street Underpass</td>
<td>C/C</td>
</tr>
<tr>
<td>8 NB Warlick Under</td>
<td>C/D</td>
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*Indicates Level of Service (LOS) of Critical Intersection

- Basic improvements to intersection provides adequate capacity
- Flux Capacitor best met the City’s eight goals and stakeholder concerns
A Process of Refinement
Design Updates

- New traffic counts and forecasts
- City Roundabout Policy
- Direct meetings with City and Stakeholders
- Value Engineering
T Intersection (below)
Roundabout (above)
Active Transportation
Marketing of Concept
Safety is the TOP Priority

CONFLICT POINTS

- Crossing
- Merging
- Diverging

EXISTING

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PROPOSED

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ELEVATING your Experience

- Increased capacity
- Reduced congestion and travel time delays
- Reduced commuting costs and fuel emissions
HEIGHTENED Innovation
Design Process and Tentative Project Timeline*

- **Project Kick-off**
  - February 2016

- **Right-of-Way Process Begins**
  - Winter 2017

- **Utility Relocation Begins**
  - 2019

- **Construction Begins**
  - 2020

- **Construction Ends**
  - Winter 2021

- **Preliminary Design**
  - 2016

- **Final Design**
  - 2017

- **Utility Relocation**
  - 2018

- **Construction**
  - 2019 - 2021

- **Public Meeting #1**
  - June 2016

- **Public Meeting #2**
  - Summer 2017

- **Public Meeting #3**
  - Summer 2018

*All dates and events beyond 2016 are approximate*
Questions?

Project Information
http://www.14tholdcheney.com/

Contact Information
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Existing (2011 Traffic)
Traffic Forecasts (2045)