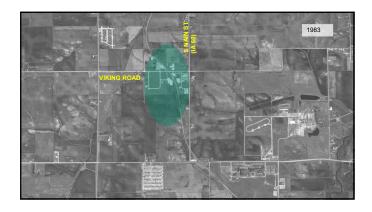






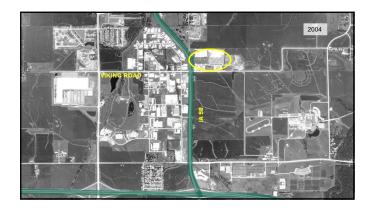
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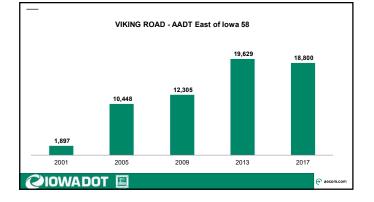




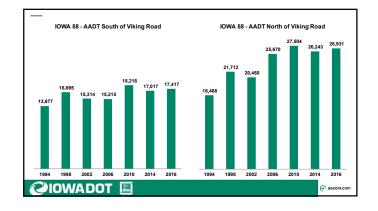






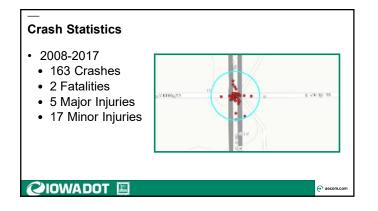


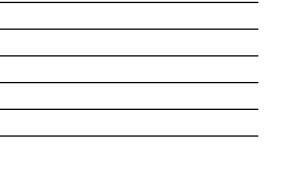












SICL No	. City	County	SICL Intersections Locations	\$
1	Ankeny	Polk	US 69/S ANKENY BLVD/N ANKENY BLVD & W 1ST ST & E 1ST ST	
2	Council Bluffs	Pottawattamie	I-29 & IA 192/S EXPRESSWAY & 30TH AVE	
3	Sioux City	Woodbury	W 7TH ST & HAMILTON BLVD	
4	Des Moines	Polk	DAY ST & 6TH AVE	
5	Cedar Falls	Black Hawk	IA 27/IOWA 58 & VIKING RD	
6		Jasper	US 65/W US 65 N & IA 117/IOWA 117 N & IA 330/IOWA 330 N	
7	Des Moines	Polk	IA 163/E UNIVERSITY AVE & E 30TH ST	
8	Ankeny	Polk	US 69/S ANKENY BLVD & SE MAGAZINE RD & ISU EXPERIM FARM	
9	Burlington	Des Moines	US 61 & WEST AVE	
10	Ankeny	Polk	US 69/S ANKENY BLVD & SW 3RD ST & SE 3RD ST	

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AWKENY BLVD N AWKENY BLVD & W 1ST ST & E 1ST ST 192/S EXPRESSIVAY & 30TH AVE ST & HAMILTON BLVD & 6TH AVE NA 58 & VIKINS RD
ST & HAMILTON BLVD & 6TH AVE
& 6TH AVE
WA 58 & VIKING RD
/ US 65 N & IA 117/IOWA 117 N & IA 330/IOWA 330 N
UNIVERSITY AVE & E 30TH ST
ANKENY BLVD & SE MAGAZINE RD & ISU EXPERIM FARM
NOWA 58 & GREEN HILL RD

Congestion

- Delays of > 60 sec/veh
- Turning traffic extended beyond turn lanes
- Traffic waited through several cycles
 Particularly during Christmas shopping season.
- Congestion between intersections on Viking Road

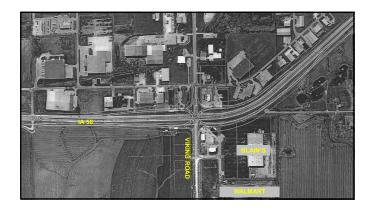
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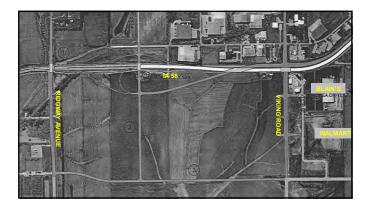
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2008 Interchange Study

- Proposed Interim Improvements
 - Double Left-Turn Lanes
 - Lengthen Turn Lanes
 - Signal Improvements
 - Planned for construction in approximately 2014.
 > \$3 Million and 2 years to construct

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- Still at LOS E/F by 2017

Long-Term Planning

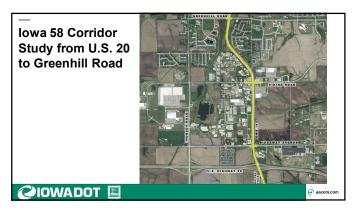
- DOT initiated study for the entire Iowa 58 Corridor from U.S. 20 to Greenhill Road
 - Viking Road was worst, but Ridgeway and Greenhill not far behind

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- Concern that fixing one problem may make the problems at the other locations worse
- Comprehensive plan was needed

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Iowa 58 Corridor Study

- Environmental Assessment and Location Study
 - Partnership Between IDOT, Cedar Falls and INRCOG
 - Interchange Evaluations
 - Environmental Review
 - Public Involvement
 - Noise Issues

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Purpose and Need Statement

"The purpose of the Iowa 58/Viking Road Corridor improvement project is to **increase safety** for vehicles, pedestrians and bicyclists, to **improve the flow** of traffic and to **provide adequate capacity** to accommodate future traffic growth in the corridor."

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Other Criteria

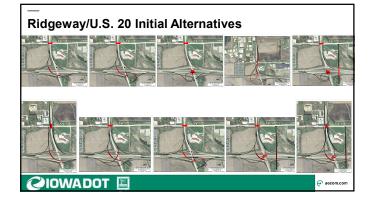
- · Minimization of ROW impacts
- Aesthetics
- Maintain Traffic

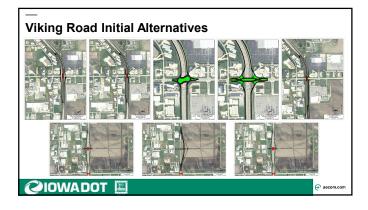
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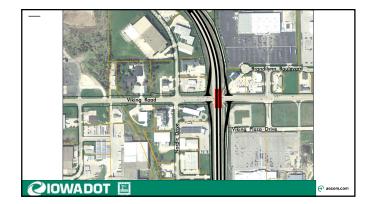
Cost

Alternatives Considered

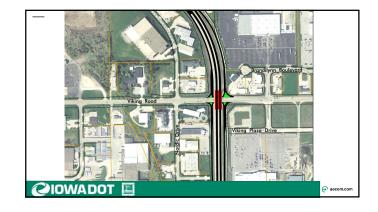
- No-Build Option
- Ridgeway/U.S. 20 10 Initial Alternatives
- Viking Road 8 Initial Alternatives
- (with additional over/under evaluations)
- Greenhill Road 2 Initial Alternatives



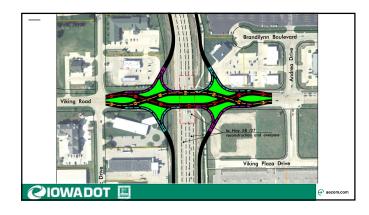




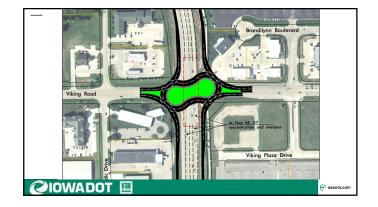


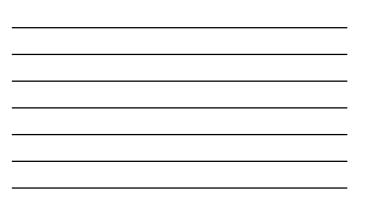


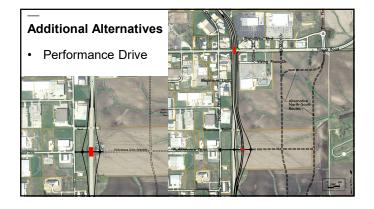


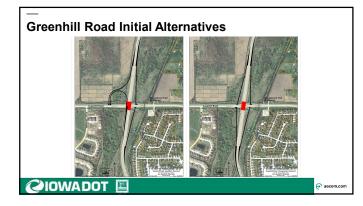


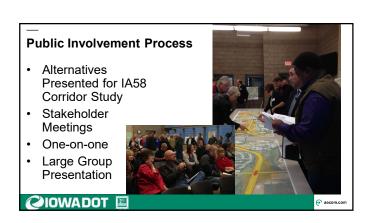








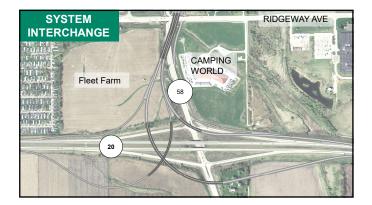


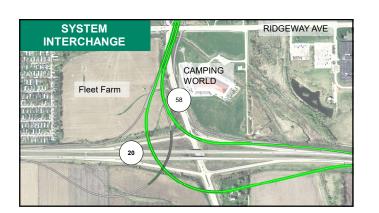


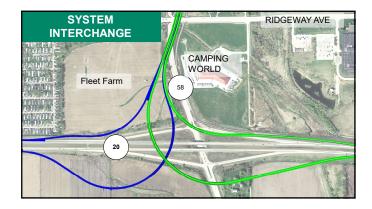
- U.S. 20 and Ridgeway Avenue
 - System Interchange
 - Continuous traffic flow for Iowa 58/U.S. 20 movements

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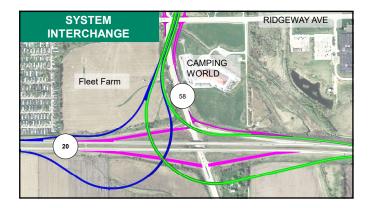
- Butterfield Road remains connected
- Ridgeway Avenue remains connected
 - Public meetings stressed the importance of this connection
 - John Deere
 - Kwik Star















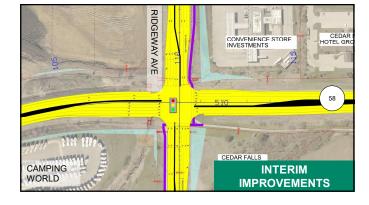
- U.S. 20 and Ridgeway Avenue
 - System Interchange
 - No stop movements for Iowa 58/U.S. 20 movements

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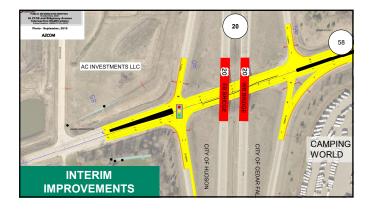
- Butterfield Road remains connected
- Ridgeway Avenue remains connected
- Interim Improvements
 - Additional Turn Lanes
 - Ramp Improvements











- Greenhill Road
 - Single-Point Interchange





- Viking Road

 - Single-Point Interchange
 Compact interchange design
 - One signalized intersection for ramps at Viking Road •
 - Performs well with large left-turn movements

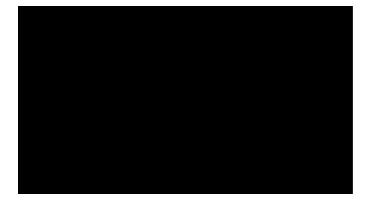
 - Common design in other areas of the country
 Mills Civic Parkway at I-35 in West Des Moines was first in Iowa

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Iowa 100 at Edgewood Road in Cedar Rapids

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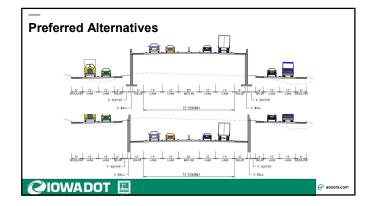
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- Over/Under Discussion

 - Iowa 58 proposed to go under Viking Road Viking Road stayed at essentially the same elevation

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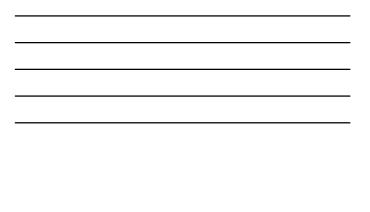
























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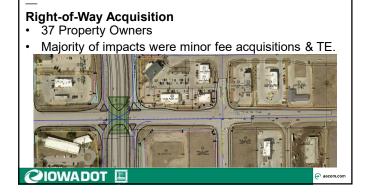


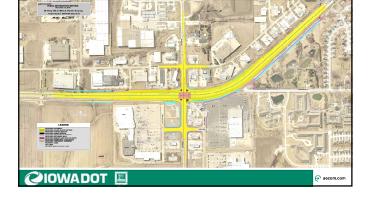
Project Limits

- Iowa 58 & Viking Road Interchange
- Shawnee Road to Mayors Bridge
- Plans accommodate future construction of Greenhill Road and Ridgeway Avenue/US 20 Interchanges









Bridge Plans

- 115'x228' PPCBB
- Built in Stages & Under Traffic
- Enhancements
 - Barrier Rail
 - Outside BeamPavers/Gore
 - Area

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Bridge Plans

Coordination with:

- Tunnel Lighting
- Signals Footing
- Bridge Approach
- Traffic Control
- Abutment Piling
- Wall Construction Below

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Retaining Wall Plans

- Over 5,000 LF
- Built Top Down
- Piles/Tie-Backs
- Timber Lagging
- Concrete Facing
- Enhancements
 - Form Liner
 - Colored Walls
- CIOWADOT

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Retaining Wall Plans

- Over 5,000 LF
- Built Top Down
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- Timber Lagging
- Concrete FacingEnhancements
- Form Liner
- Colored Walls

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Roadway Plans

- Excavation
- Water Main
- Storm Sewer
- Side Road Paving
- Street Lighting
- Recreational Trail
- Traffic Signals
 - Viking & Nordic
 - Viking & Andrea
- Viking & IA 58Iowa 58/Ramp Paving
- Complex Staging

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Project Schedule

- Final Design Started April 2016
- Public Meeting Nov. 2016
- ROW Began April 2017
- Utility Coordination Throughout Project
- Pre-Bid Meeting Jan. 2018
- Bid Letting Feb. 2018
- Construction 2018 2020

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Project Costs

- Engineer's Estimate \$39.0 Million
- Total Bid \$36.9 Million
 - Roadway \$23.0 Million
 - Bridge
- \$ 2.7 Million
- Retaining Walls \$11.2 Million

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Construction

- Traffic Control
 - Reduced Iowa 58 to 1-lane each direction
 - Viking Road reduced to 1-lane each direction
 - Sideroad closures or constructed intersections in quarters.
 - DOT & City utilized numerous alternate route signs, changeable message signs, and 511 System

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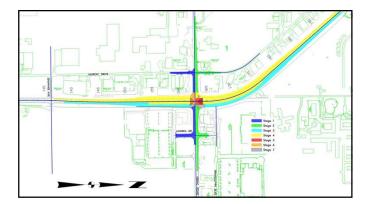
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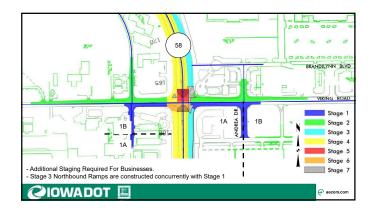
- · Drivers avoided area
- · Some traffic issues on alternate routes

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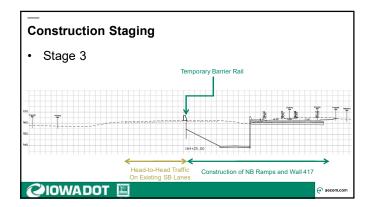
Construction Staging

- Staging Requirements
 - Maintain Traffic on IA58 & Viking Road
 - Maintain Business Access
 - Bridge Construction Coordination
 3 Bridge Deck Pours

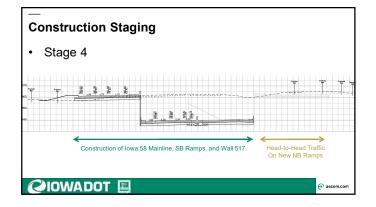


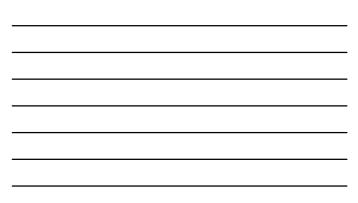


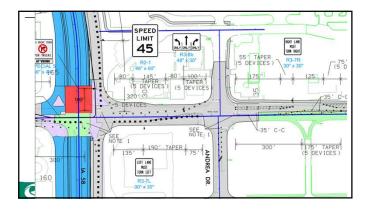








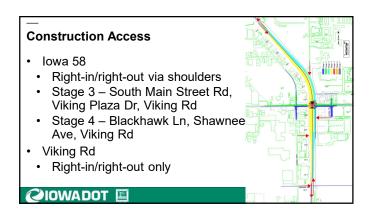




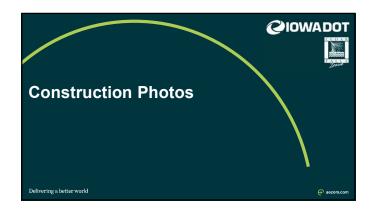








































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