



- Multi-Year Iowa DOT Study and Design Process
- Outcome of Initial Study Phase
 - Develop a preferred set of transportation improvements for the Council Bluffs Interstate system
- Major Long-Term Investment
 - Similar in scope to the NDOR I-80 Omaha Interstate
 Reconstruction and the Iowa DOT I-235 Des Moines Interstate
 Reconstruction
- Stemmed from 1999 Needs Study

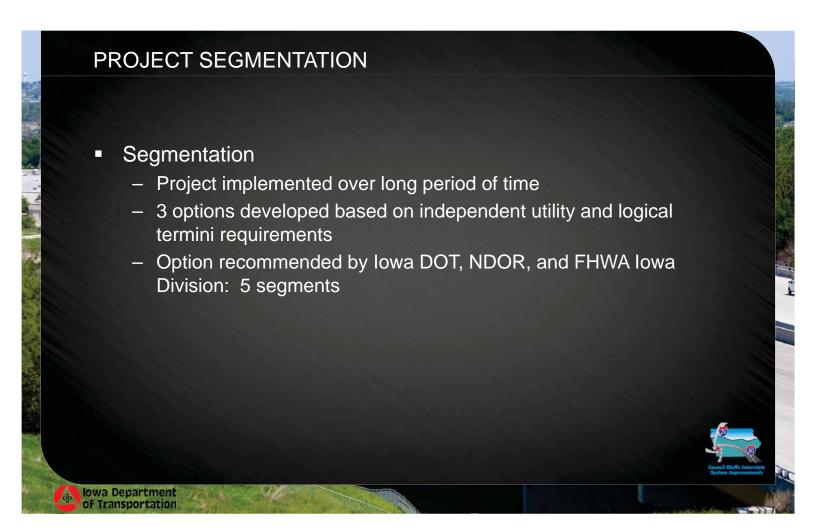


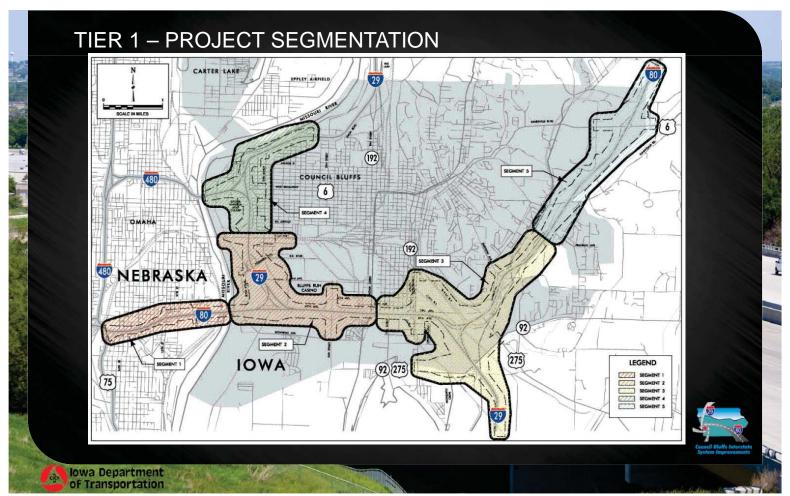
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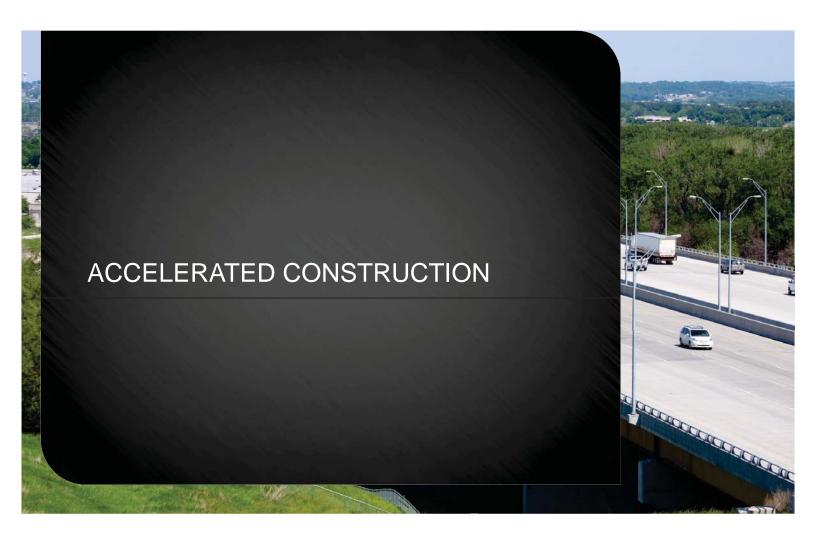
CBIS PROJECT OVERVIEW

- Agencies
 - Iowa Department of Transportation
 - FHWA Iowa Division
 - Nebraska Department of Road
 - FHWA Nebraska Division
 - City of Council Bluffs









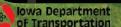
AUGUST 7TH WORKSHOP



ACCELERATED DELIVERY STRATEGIES

- Accelerated **Design-Bid-Build** Delivery
 - A+B Bidding
 - A+B+C Bidding
 - Incentive / Disincentive
 - Performance Specifications
- Construction Phasing
 - Construction Contract Size
 - Shovel Ready Reserve Projects
 - Minimize High Speed Temporary Detour Connections
 - Incrementally Increase Capacity
- Consider Cost and Schedule Risks
 - Utilities, Railroad Agreements, Right-of-Way, Soils, Levees
- "Accountable" Construction Schedule
- Public Relations "Communication Plan"





CHARRETTE PARTICIPANTS



John Carns - Iowa DOT	George Feazell - Iowa DOT	Jon Ranney - Iowa DOT	Mike DiGregorio - HDR
John Carris Towa DOT	George reazen Towa 201	Jon Harmey Towa 201	Winter Bronegorio Tibit
Dave Skogerboe - Iowa DOT	Stacy Ryan - Iowa DOT	Scott Hanson - Iowa DOT	John Smith - HDR
Don Stevens - Iowa DOT	Scott Suhr - Iowa DOT	Kevin Merryman - Iowa DOT	Will Sharp - HDR
Bob Schoenrock - Iowa DOT	Paul Trombino - Iowa DOT	Patricia Schwarz - Iowa DOT	Bill Gilmore - Gilmore Consulting
Eric Keiner - Iowa DOT	Dave Dorsett - Iowa DOT	Andy Wilson - FHWA	Bhooshan Karnik - CH2M Hill
Ed Kasper - Iowa DOT	Steve Gent - Iowa DOT	Lisa McDaniel - FHWA	Emad Farouz- CH2M Hill
Bryan Bradley - Iowa DOT	John Smythe - Iowa DOT	Ken Smith - HDR	Robert Cramer - Cramer and Associates, Inc.
Marty Sankey - Iowa DOT	Michael Kennerly - Iowa DOT	Blane Long – HDR	Jesse Spain - Peterson Contractors
Maria Hobbs - Iowa DOT	Norm McDonald - Iowa DOT	Alia Friedel – HDR	
Steve Maifield - Iowa DOT	Ahmad Abu-Hawash - Iowa DOT	Doug Jackson - HDR	
Jim Muetzel - Iowa DOT	Mitchell Dillavou - Iowa DOT	Phil Rossbach - HDR	₩
Janet Vine - Iowa DOT	Wayne Sunday - Iowa DOT	Craig Hunter - HDR	Council Built Intern

ADDITIONAL GUIDANCE DURING CHARRETTE



- Manage CBIS as a Program
 - Proactive cost and schedule management
- Consider Innovative Approaches
 - Use alternate delivery techniques in the Design-Bid-Build process
 - Consider innovative contractual methods
 - Lump sum bidding, Owner Controlled Insurance Program
- Consider all ideas that could shorten schedule while maintaining value
 - Stage program based on construction first, then review funding
 - Accelerated bridge construction
 - Interstate closures
- Avoid extended schedule or construction inactivity (damages public trust)



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CONSOLIDATION OF CONSTRUCTION PACKAGES Sof Transportation



- Potential Benefits:
 - Economies of scale
 - Reduces MOT
 - Reduces mobilization
 - Reduces impact to traveling public
 - Reduces temporary pavement
 - Larger incentives possible for contracts
 - Shortens construction schedule
 - Simplifies DOT construction administration
 - Construct as more of a linear project
 - Improves public relations
 - Reduce conflict between contractors
- Considerations:
 - Project development needs to be advanced
 - Larger multiyear contracts have a different risk profile
 - Iowa DOT cash flow



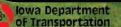
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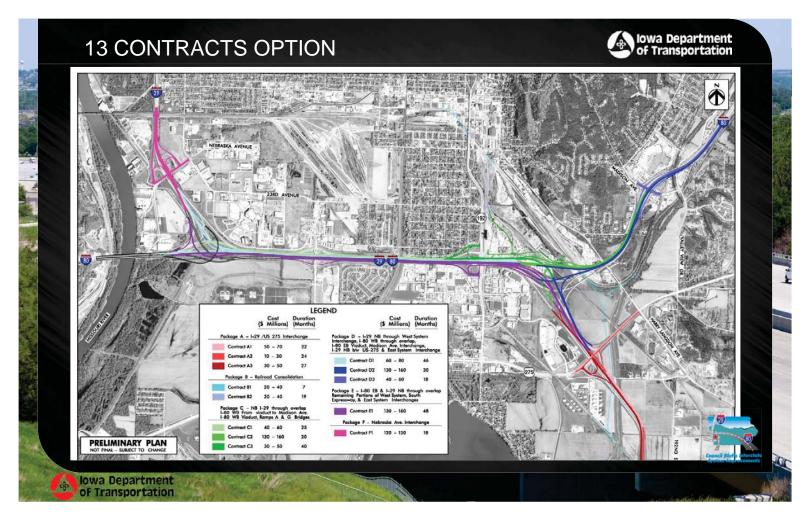
BASELINE

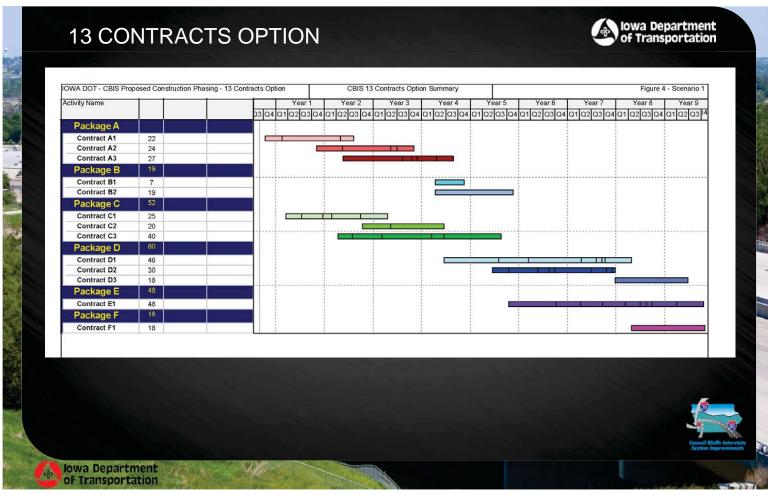


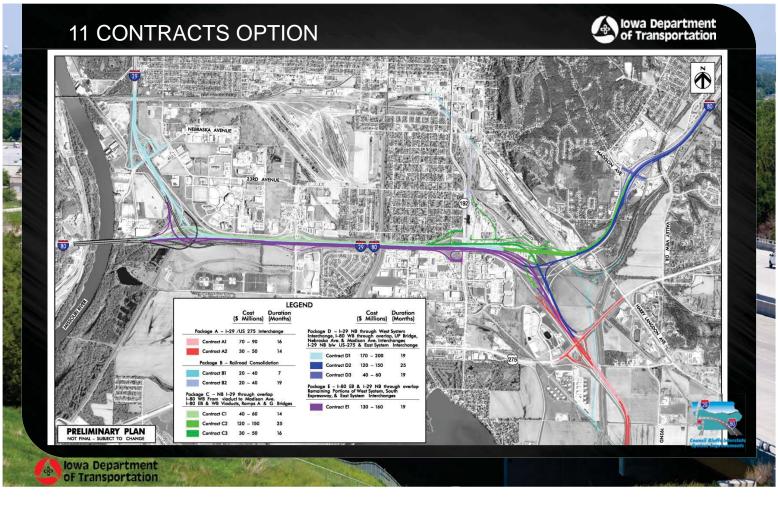
- Based on CBIS Funding Guide
- Schedule 8/2012 4/2023
- 66 contracts Range from less than \$1M to \$70M
- Over \$800 M total construction costs
- Over \$400 M in current DOT 5 Year Program

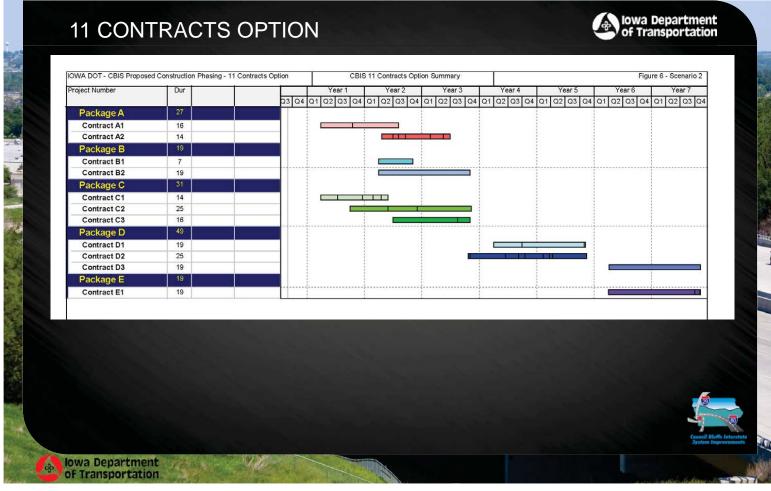


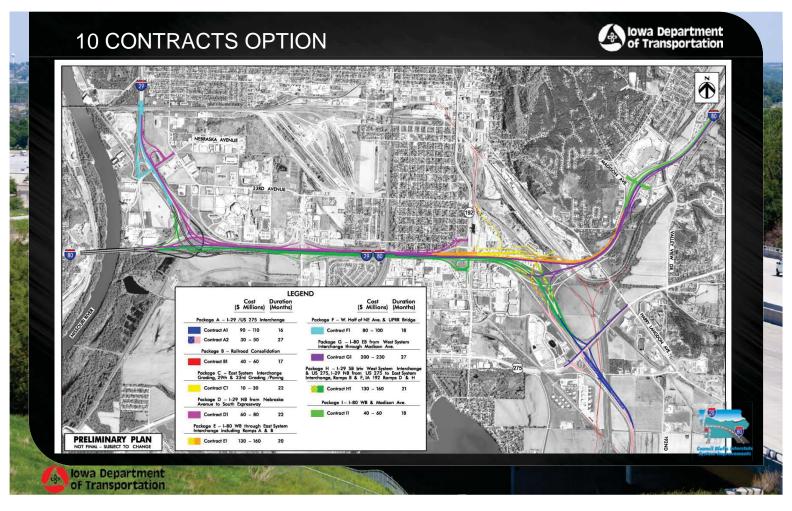


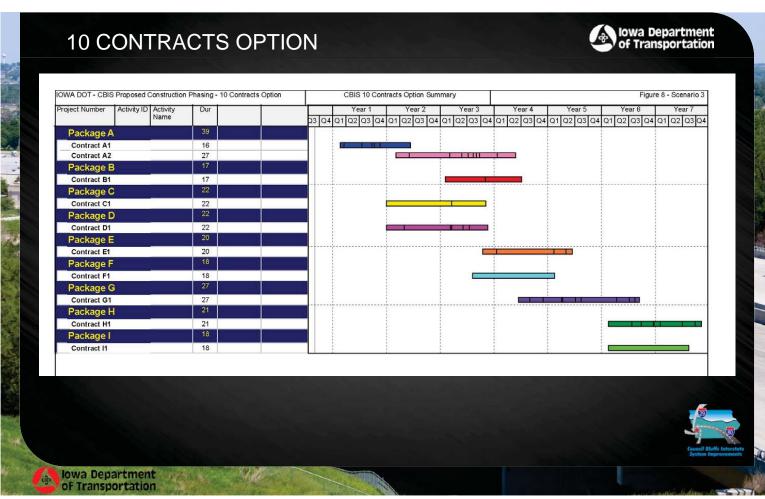


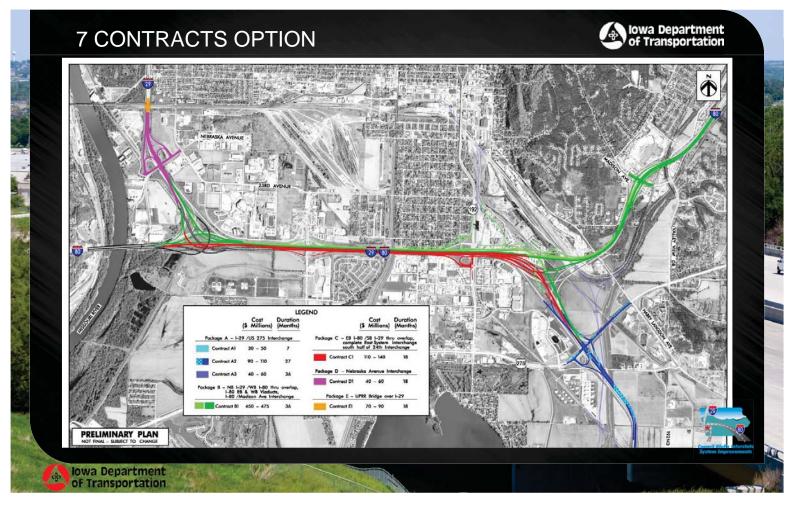


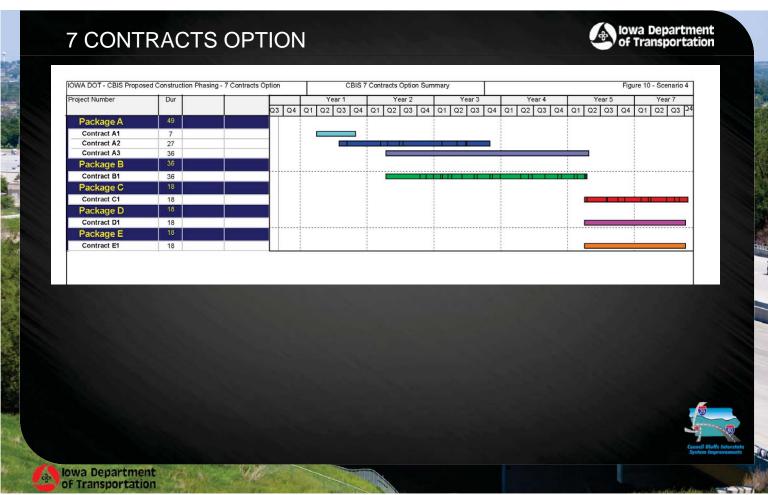












SUMMARY OF SCENARIOS



Summary of Scenarios

Council Bluffs Interstate System Improvements

Segments 2 & 3

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#	Description	Schedule Savings	Total Cost ¹	Average Annual Cost ^{1,3}	Largest Single Contract Cost ¹	Peak Cost / Year ^{1,2}			
1	13 Contracts	1.5 years	\$890 Million	\$100 Million	\$130 - \$160 Million	\$180 Million / 2020			
2	11 Contracts	3.5 years	\$840 Million	\$120 Million	\$170 - \$200 Million	\$300 Million / 2016			
3	10 Contracts	3.5 years	\$855 Million	\$120 Million	\$200 - \$230 Million	\$340 Million / 2016			
4	7 Contracts	4.5 years	\$850 Million	\$140 Million	\$450 - \$475 Million	\$500 Million / 2014			

- ¹ Costs shown do not include ROW costs and are inflated based on each scenario's schedule to account for savings due to schedule reduction.
- ² Assumes that the total contract cost will be expended on the contract letting date. Includes multiple contracts let in a single year.
- ³ Average expenditures over the construction period.



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ACCELERATED DELIVERY STRATEGIES



Strategies being evaluated:

- Program Delivery Approach
- Risk Mitigation /Management
- Accelerated Bridge Construction
- Performance Specifications
- Right-of-Way Schedule Management
- Utility Relocation Schedule Management
- Lump Sum Contracts
- Multi-year contracts, winter work schedules
- Alternative Technical Concepts
- Incentive/Disincentive Provisions



