



Iowa City Gateway

City Council Work Session

January 21, 2014



Gateway Project

Tonight's Objective:

- Establish the Primary Design Parameters for the Project
 - Work Session
 - Review City Council Process to Date
 - Review Recent Activities for NEPA Process
 - Review the Process as we Move Forward with Design
 - Review Staff Recommendations
 - Outline the Resolution and Options
 - Answer Additional Questions from Council
 - Formal Meeting
 - Outline Staff Recommendations
 - Public Input
 - Consider Resolution Establishing Primary Design Parameters



City Council Process to Date:

- September 17, 2013 Work Session
 - Reviewed the project and Environmental Assessment Process
 - Identified three primary design parameters that will need to be decided to move into the design phase
 - Answered Questions
- October 1, 2013
 - **Work Session:** Reviewed the three primary design parameters and staff's recommendations. Answered questions.
 - **Formal Meeting:** Held Public Hearing for input on the project. No action item on the agenda.
- January 21, 2014
 - **Work Session:** Review the process, parameters and recommendations. Answer questions.
 - **Formal Meeting:** Additional public input. Consider resolution establishing the three primary design parameters.



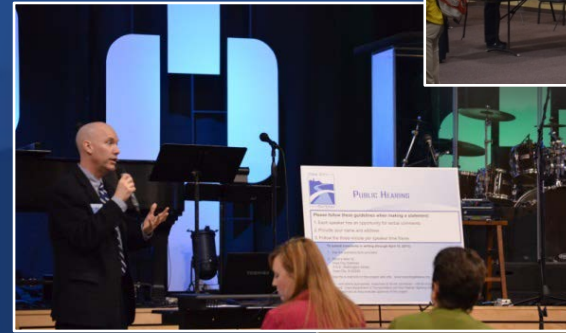
NEPA Cultural Resource Investigations and Recent Findings

- Led by Office of State Archaeologist and Tallgrass Historians
- Coordinated with:
 - Iowa City Historic Preservation Commission
 - Iowa DOT Cultural Resource staff
 - State Historic Preservation Officer
- Received finding of Conditional No Effect summer 2012
- Affirmed by independent evaluation summer 2013
- Iowa City Historic Preservation Commission confirmed support, fall 2013
- Received FHWA Finding of No Significant Impact December 2013



NEPA Public Outreach

- Started April 2010
- Two public meetings: 250+ attendees
- Drop-in center + online public meeting
- Public hearing/drop-in center
- Multiple paid ads
- Multiple media stories
- Local media press releases
- City and project specific Web site*
- Mailing list of nearly 2,000*
- Neighborhood and civic group meetings*
- Multiple one-on-one meetings and calls*



*Will continue in the design process



NEPA Tasks

Completed:

- ✓ Data collection
- ✓ Flood model data updated
- ✓ Initial alternatives screening
- ✓ Purpose and Need approved
- ✓ Two public meetings
- ✓ Refine alternatives
- ✓ Screen alternatives
- ✓ Recommend preferred alternative
- ✓ Prepare NEPA document
- ✓ Resource Agency coordination
- ✓ Release NEPA document for review
- ✓ Hosted Public Hearing
- ✓ Received Federal approval

[illegible]

Denotes Public Meetings for attendance by any interested party
Denotes City Council work session or formal meeting



Staff Recommendations for Primary Design Parameters

- Level of protection for Dubuque Street
 - 2008 event + 1'
- Backwater reduction goals (Elevation of Park Road Bridge):
 - Low Steel at 200 year event +1'
- Structural type of the bridge
 - Deck Girder or Through Arch



Comparison of Levels of Protection for Dubuque Street

Level of Protection	Estimated # of days closed in the past 20 years due to Iowa River flooding	Relative Comparison: Inches above/below the 2008 + 1' protection level
Existing	150	NA
100 year + 1'	7*	-39"
200 year + 1'	5*	-11"
2008 flood + 1' (Recommended)	0	0"
500 year + 1' (EA Preferred Alt)	0	+19"

*Including one day for cleanup, inspection and repair after inundation



Bridge Comparisons

Bridge Type	Low Steel Elevation	Backwater Reduction at Idyllwild	Incremental Improvement in Backwater Reduction	Deck Elevation	Incremental Height of Bridge Deck	Construction Cost Estimate with Dubuque at 100yr + 1'	Construction Cost Estimate with Dubuque at 200yr + 1'	Construction Cost Estimate with Dubuque at 2008 + 1'	Construction Cost Estimate with Dubuque at 500yr + 1'
Deck Girder	100yr + 1'	3.4"		660.20		\$32.67 M		\$34.26 M	
Deck Girder	200yr + 1'	6.1"	2.7"	662.52	27.8"		\$34.63 M	\$35.01 M	
Deck Girder	2008 + 1'	6.6"	0.5"	663.45	11.2"	\$33.41		\$35.17 M	
Deck Girder	500yr + 1'	7.0"	0.4"	665.03	19.0"	\$34.20 M	\$35.01 M	\$35.34 M	\$36.65 M EA Preferred Alternative
Deck Arch	100yr + 1'	3.6"		659.20		\$36.01 M		\$37.59 M	
Deck Arch	200yr + 1'	4.7"	1.1"	661.52	27.8"		\$37.96 M	\$38.34 M	
Deck Arch	2008 + 1'	5.2"	0.5"	662.45	11.1"	\$36.71 M		\$38.48 M	
Deck Arch	500yr + 1'	5.6"	0.4"	664.03	19.0"	\$36.94 M	\$38.33 M	\$38.66 M	\$39.98 M
Through Arch	100yr + 1'	3.4"		656.87		\$35.99 M		\$37.58 M	
Through Arch	200yr + 1'	4.9"	1.5"	659.02	25.8"		\$37.93 M	\$38.31 M	
Through Arch	2008 + 1'	5.2"	0.3"	659.95	11.1"	\$36.70 M		\$38.47 M	
Through Arch	500yr + 1'	5.8"	0.6"	661.53	19.0"	\$36.90 M	\$38.30 M	\$38.63 M	\$39.60 M





Bridge Options from Dubuque Street





Bridge Options from Boathouse





Comparison of Backwater Reduction Goals and Bridge Type

Option	Bridge Type	Low Steel Elevation	Elevation at the Dubuque St/Park Rd Intersection	Backwater reduction at Idyllwild and Taft Speedway	Dubuque Street Protection Level	Construction Cost Estimate of Bridge and Road
Max. protection and backwater reduction (EA Preferred Alt)	Deck Girder	500yr + 1'	665.03	7"	500yr + 1'	\$36.65M
Recommended Arch	Through Arch	200yr + 1'	659.02	4.9"	2008 + 1'	\$38.31M
Recommended Girder	Deck Girder	200yr + 1'	662.52	6.1"	2008 + 1'	\$35.01M





Resolution Establishing Primary Design Parameters

WHEREAS, City staff has recommended that the design parameters be: (1) protect Dubuque Street to the 2008 flood elevation plus one foot and, (2) provide backwater reduction by elevating the low steel of the new bridge to the 200-year flood plus one foot and, (3) proceed with either the Through Arch Bridge or the Deck Girder Bridge; and

WHEREAS, the Council has considered the input and needs of the public; and

WHEREAS, funds for this project are available in the Iowa City Gateway Project (Dubuque St) account # 3809.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF IOWA CITY, IOWA, THAT: For purposes of the Iowa City Gateway Project, which is currently planned for bid letting in 2015, it is in the best interests of the City of Iowa City and its citizens to establish the following design parameters:

1. The 2008 flood elevation plus one foot as the level of protection for Dubuque Street.
2. The 200-year flood elevation plus one foot as the backwater reduction goal (low steel elevation) of the Park Road Bridge.
3. The _____ as the structural type of the bridge across the Iowa River.

Passed and approved this _____ day of _____, 20____.



Iowa City Gateway

Questions?





Bridge Recommendations

Bridge Type	Low Steel Elevation	Backwater Reduction at Idyllwild	Incremental Improvement in Backwater Reduction	Deck Elevation	Incremental Height of Bridge Deck	Construction Cost Estimate with Dubuque at 100yr + 1'	Construction Cost Estimate with Dubuque at 200yr + 1'	Construction Cost Estimate with Dubuque at 2008 + 1'	Construction Cost Estimate with Dubuque at 500yr + 1'
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