

Community Flood Mitigation Strategy

**Professional Services
Contract**

July 10, 2012



CITY OF
AmesTM



Council Goal: Mitigate Flooding

Reduce the possibility of damage in our community caused by river/watershed flooding

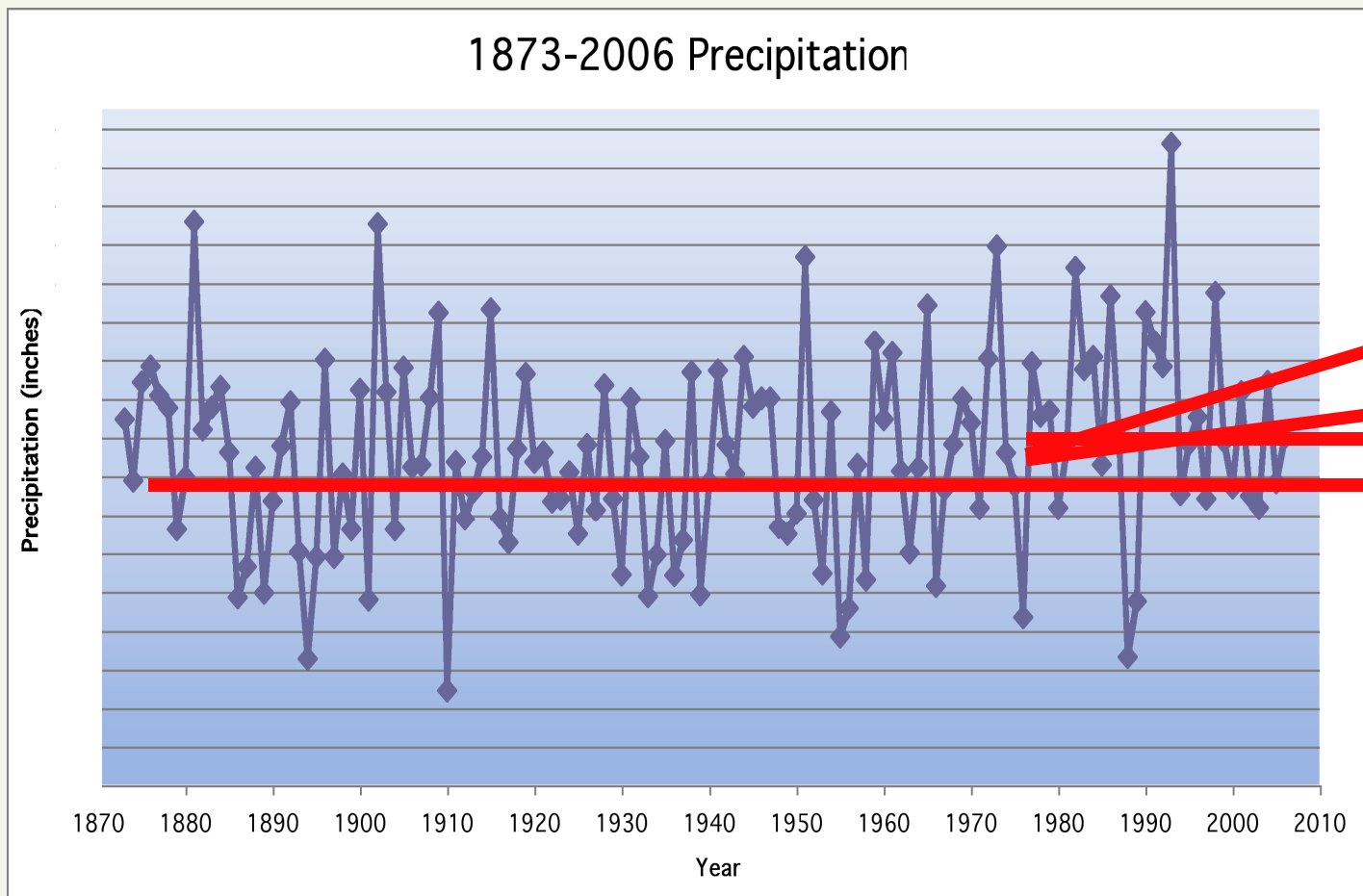
Reduce the possibility of damage in our community caused by localized flooding



Scope of Work Desired

- Update Baseline Flood Discharge
 - Define the 2-, 5-, 10-, 25-, 50-, 100-, and 500-year flood discharge (rate of flow)
 - Evaluate how those discharges would change if different assumptions were made about future rainfall patterns

Precipitation Patterns





Scope of Work Desired

- Update Floodplain Mapping
 - Sequence of maps showing each return frequency
 - Sequence showing differences based on rainfall patterns
 - Listing of properties impacted for each storm modeled
 - Does not include FEMA mapping updates at this time



Scope of Work Desired

- Alternatives Analysis
 - Identify, evaluate, and recommend a list of possible flood mitigation alternatives.
 - Range from physical measures to policy alternatives
 - Includes a conceptual level of detail for the recommended alternatives
 - Will provide budget level estimates that can be programmed into future CIP updates
 - Will not include preparing any bidding or construction documents



Request for Information (RFI)

- Issued January 5, 2012
- Sent to 20 firms; received 9 responses
- Responses used to develop the formal Request for Qualifications (RFQ)



Request for Qualifications

- Issued on April 6, 2012
- Sent to same 20 firms, plus posted on Purchasing Division's website
- Pre-submittal meeting held on April 19
 - Teleconference format allowed for out-of-town firms to participate
 - Attended by 9 firms



Statements of Qualifications

- Mandatory step for firms to be considered
- Eight submissions were received
- Reviewed and scored by city staff, with input from ISU, Story County, IDOT
- Top three rated firms invited to interview



Composite Ratings

	Average Score	Overall Rank
Ayres Associates	87.75	3
Bolton & Menk		
Burns & McDonnell		
HDR Engineers	94.25	1
HR Green		
MWH		
Snyder & Associates		
Stanley Consultants	90.50	2



Interviews

- Interview panel consisted of
 - City Staff
 - ISU Facilities
 - Story County
- Spent 2 hours with each firm
 - Formal presentation; informal Q&A
 - Two envelopes (scope, fee)

Selection Criteria

Strength in flood modeling and mapping	15%
Approach to leveraging the work of other entities	10%
Track record in implementing effective, innovative mitigation strategies	15%
Strength in engaging the public	15%
Approach to evaluating possible mitigation measures (design, cost estimating, environmental impacts, etc.)	15%
Strength in incorporating climate variability into the recommendations.	10%
Ability to work cooperatively and effectively with City staff and its partner agencies	5%
Overall appropriateness of proposed scope of work (Is everything included? Any unusual exceptions? Are the tasks balanced?)	5%
Subtotal	90%

Scoring Results

		HDR	Stanley	Ayres
1	Hydrologic and hydraulic evaluations.	X	X	
2	Leveraging the work of other entities	X		
3	Implementing a wide range of effective, innovative mitigation strategies		X	
4	Managing public meetings		X	
5	Approach of team in evaluating possible mitigation measures	X	X	X
6	Incorporating rainfall sensitivity analysis	X		
7	Work cooperatively and effectively with City staff	X		
8	Overall appropriateness of proposed scope of work.	X		

Fee Proposals

- Firms scored and ranked on first eight criteria before opening the fee proposal envelope.

HDR	Stanley	Ayres / Shive-Hattery
8.09	8.05	7.57

Out of nine possible points

Assigning a Score to the Fee

- Fee proposal envelopes opened
- Lowest fee assigned the maximum score; other firms assigned a score based on how much higher (as a percentage) they were above the lowest fee proposal

	Fee	Rating	Weight	Score
HDR	\$ 242,991	10.00	10%	1.00
Ayres / Shive-Hattery	\$ 249,990	9.72	10%	0.97
Stanley	\$ 253,000	9.60	10%	0.96

Final Scores / Rankings

	HDR	Stanley	Ayres / Shive-Hattery
Total Score <u>Before</u> Opening Fee Envelope	8.09	8.05	7.57
Fee Proposal Rating	1.00	0.96	0.97
Final Score <u>Including</u> Fee Proposal	9.09	9.01	8.54



Recommendation

- HDR Engineers
 - Offered the most “holistic” approach to the watershed
 - Strongest team for evaluating “climate variability”
 - High level of coordination with Iowa Flood Center
 - Very well thought out public input process
 - Also received very high references on their public involvement style from other Iowa communities



Public Participation Plan

- RFQ called for results by the end of October, to allow incorporation into the 2013-2019 CIP
- Concern about schedule
- Concern about the level of public participation



Negotiated Public Participation Scope

“If schedule wasn’t a constraint,
what would an appropriate public
involvement plan look like?”

Public Participation Process

Public Meetings – Round 1

Share personal flood impact stories

Provide input into potential mitigation strategies

Learn about the study

Council Workshop Number 1

Present results of “technical evaluation”

Baseline Modeling & Mapping

Include Rainfall “Sensitivity Analysis”

Public Meetings – Round 2

Present Draft Screening Criteria for Evaluating Mitigation Alternatives

Present Initial Screening of Mitigation Alternatives

Gather Feedback from Public

Early August 2012

Mid-October 2012

Early November 2012

Public Participation Process - Continued

Council Workshop Number 2

Present Draft Screening Criteria for Evaluating Alternatives

Present Initial Screening of Mitigation Alternatives

Share Public Feedback

Receive Council Direction

Public Meetings – Round 3

Present Final Screening Criteria

Gather Public Feedback on Final Screening of Mitigation Alternatives

Final Presentation to Council

Present Final List of Evaluated Alternatives

Include Cost / Benefit Rankings

Includes Budget-level Cost Estimates

Mid-November 2012

Mid-January 2013

Mid-January 2013



Staff Recommendation

Accept base proposal from HDR	\$ 242,991
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Accept expanded public participation scope	40,380
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Total HDR Contract	\$ 283,371
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Misc. Expenses	5,000
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Revised Budget	\$ 288,371
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