

HR Green® Building Communities. Inspiring Lives.



THE CITY OF
DAVENPORT
IOWA | USA



HRGreen
Building Communities.
Inspiring Lives.

Advancing Resilient Transportation Infrastructure Through PROTECT Program

2026 ACEC-IA + Iowa DOT + FHWA
Iowa Transportation Conference
August 26, 2026

Clay Merritt – Director of Engineering & Capital Projects, City of Davenport
Cory Shannon – Project Manager, HR Green, Inc.
Stacy Woodson – Sr. Project Manager, HR Green, Inc.

PROJECT OVERVIEW

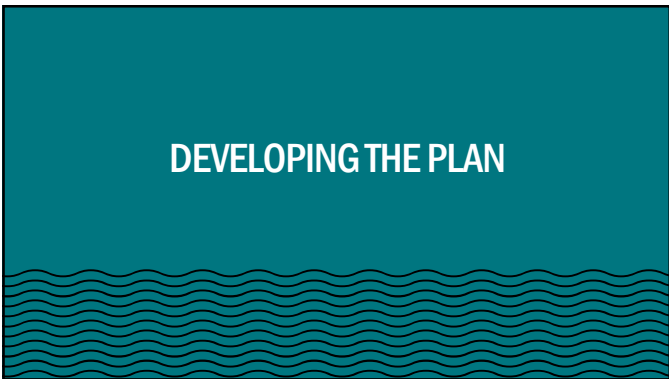
2019 FLOOD EVENT



- Mississippi River **flood of record** (stage 22.7)
- Continuously above flood stage for **103 days**
- Temporary flood barrier failure inundated 3 blocks of downtown







PROJECT GOALS

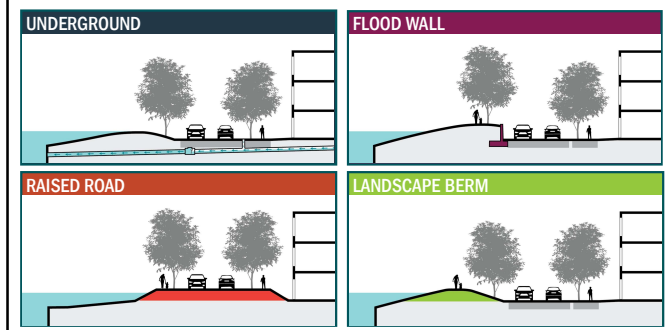
- Engage with the public and stakeholder groups on flood resiliency
- Develop and recommend non-structural and structural flood mitigation
- Increase operational efficiency of flood fighting
- Enhance transportation routes during flooding
- Develop an implementation plan and funding strategy for the recommended programs and projects

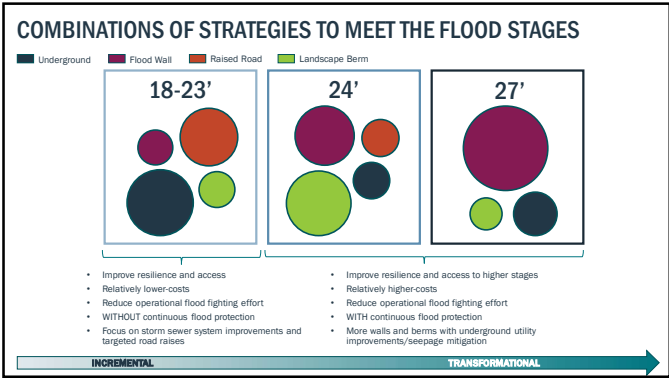


PUBLIC ENGAGEMENT OVERVIEW

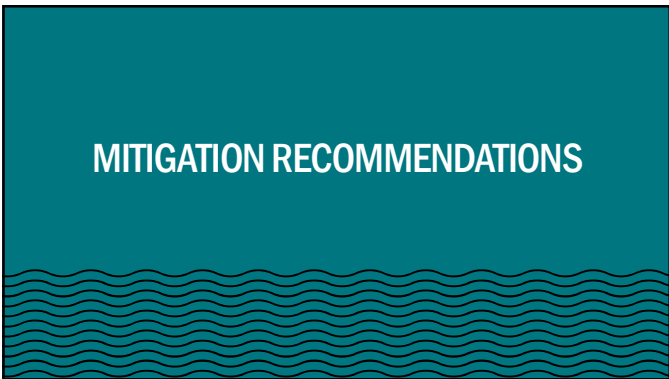
VISIONING	ALTERNATIVES	CONFIRMATION
Fall 2020 Key Questions • How do you experience flooding today? • How do you use the riverfront today? • What do you want to do on the riverfront that they can't do today? Stakeholder Meetings • Village of East Davenport • Downtown • West Davenport Businesses • West Davenport Residents • Riverfront/Parks Focus Group • City Operations Group • Riverfront Improvement Commission • QC Chamber Survey: Visioning and Interactive Mapping • 340 responses 	Spring 2021 Key Questions • What are your top priority goals for flood strategies? • What options for solutions do you support? Why? Stakeholder Meetings • Village of East Davenport • Downtown • West Davenport Business & Black Hawk/Walnut Representatives • QC Chamber • USACE, Rock Island District • Canadian Pacific Railroad Open House • Diversity, Equity and Inclusion organizations • Community utility and response partners • Neighborhood leaders • Media • High school student newspapers Media • Presentation airings on all local media interviews Survey: Alternatives • 507 responses	Summer 2021 Key Questions • Do the recommendations reflect your priorities and feedback? • What are your concerns/priorities around phasing and implementation? Stakeholder Meetings • Village of East Davenport • Downtown • West Davenport Business & Black Hawk/Walnut Representatives • Riverfront Improvement Commission • QC Chamber Open House • Diversity, Equity and Inclusion organizations • Neighborhoods and Friends groups Booth Outreach • Farmers Market • QC Empowerment Open Air Market Media • Presentation airings on all local media interviews Survey: Recommendations • 166 responses

TYPES OF STRATEGIES





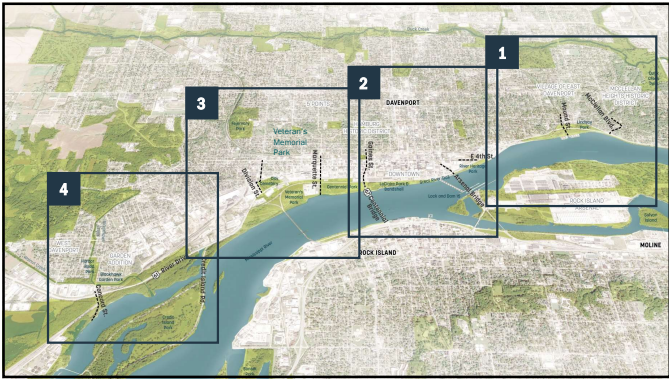
GUIDING PRINCIPLES	
What are the overarching values and goals that apply to all flood resilience concepts for Davenport?	
RESILIENCE	Reduce the impact of flooding on day-to-day lives and economies, including the ability to recover more quickly from a flood event.
OPERATIONS	Reduce the operational drain of flood fighting on the City's resources.
EQUITY	Provide balanced investment in flood mitigation infrastructure and level of flood fighting effort along the full riverfront.
PUBLIC ACCESS	Prioritize the riverfront as a public amenity for the community and deepen Davenport's relationship to the Mississippi.



STRUCTURAL RECOMMENDATIONS – BALANCING ACUTE DIFFERENCES

- Historical Precedent and Relationship with the Mississippi River
- Results from the Public Engagement Process
- Stage-Frequency History on Mississippi River
- Costs and Benefits
- Existing Seawall Elevation

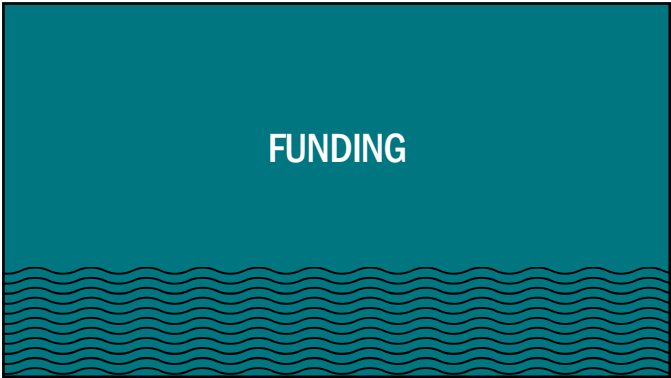
Structural mitigation to stage 22 offers the City of Davenport a **balanced, equitable, and cost-effective** solution that's rooted in the City's rich history of co-existing with the river and lives out public awareness that the mighty Mississippi can always produce a larger or longer flood beyond what anyone can expect or affordably mitigate.

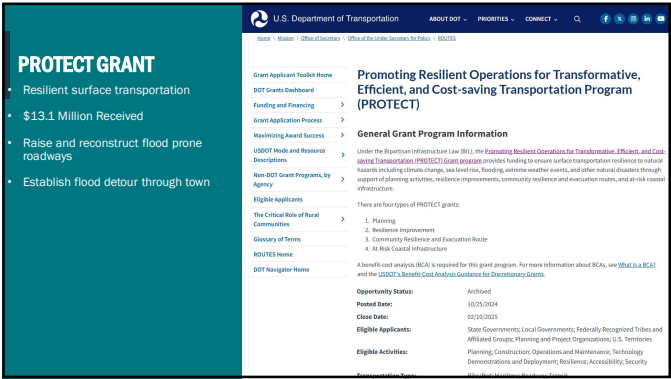


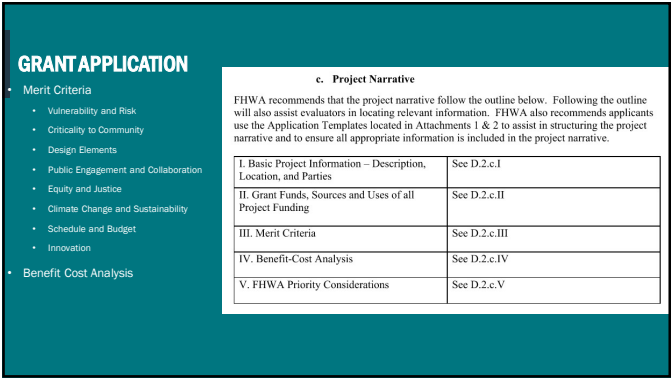
STRUCTURAL MITIGATION PROJECT SUMMARY

Area	Total Project Cost Estimate
1 – East End to Arsenal Bridge	\$ 24.8M
2 – Arsenal Bridge to Centennial Bridge	\$ 52.2M
3 – Centennial Bridge to West End	\$ 49.6M
4 – West End and Credit Island	\$ 36.3M

Note: One project, estimated at \$2.5M, has been excluded from the Area-based Total Project Cost Estimates because the costs span all project areas.







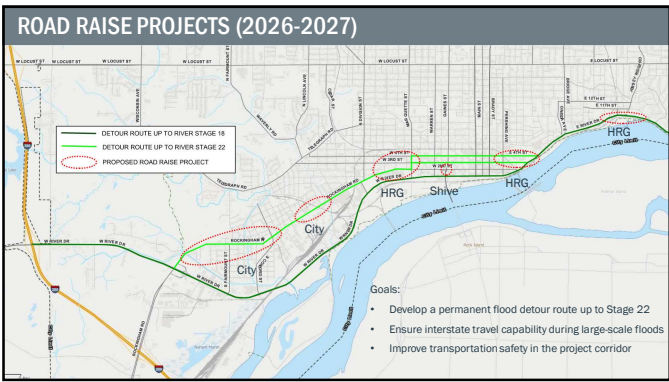
PROJECTS

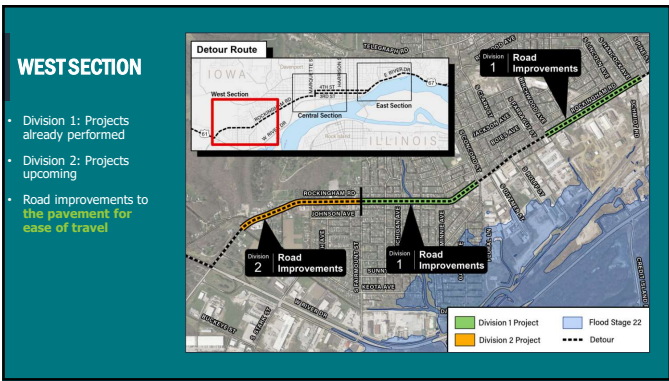
- Storm Sewer Projects (3)
 - \$6.4M (2022-2025)
- Road Raise Projects (5)
 - \$16.7M (2025-2028)
- Total = \$23.9M Needed

FUNDING SOURCES

- ARPA - \$4.0M
- FEMA LPDM - \$1.4M
- FHWA PROTECT - \$13.1M
- CITY - \$5.3M

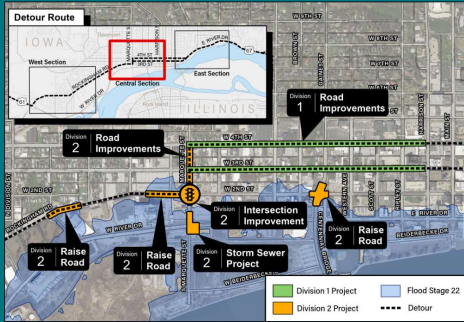






CENTRAL SECTION

- Storm sewer project to **keep W River Drive open**
- Road raise, intersection improvement, and road improvements to **create a permanent flood detour route**
- Road raise to **ensure Interstate travel**



EAST SECTION

- Storm sewer project to **keep E River Drive open**
- Road raise and road improvements to **create a permanent flood detour route**
- Road raise to **ensure Interstate travel**
- Reconfigure intersection to **improve safety**



IMPLEMENTATION AND LESSONS LEARNED

IMPLEMENTATION & LESSONS LEARNED

1

Technical Implementation



2

Compressed Schedule



3

Multiple Projects



4

Communication



RIVER DRIVE AND MARQUETTE STREET



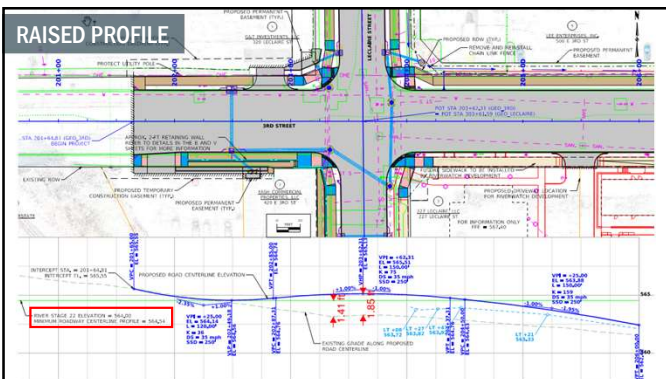
1

GUIDING DESIGN PRINCIPLES

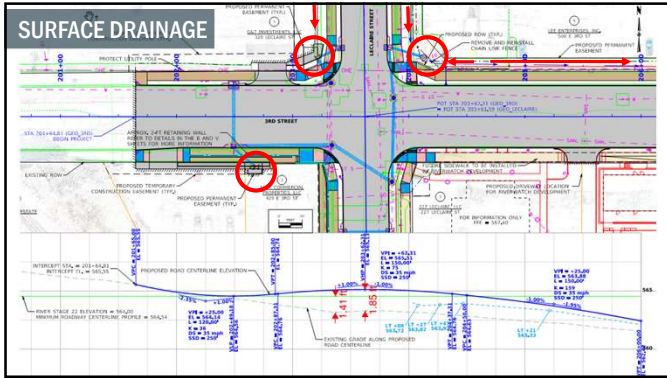
Raise the road profile with focus on maintaining:

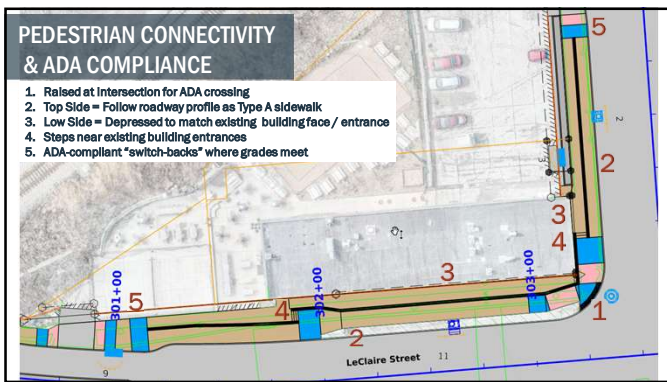
- Drainage network
- Multi-modal capability and ADA compliance
- Integrity of private property and buildings
- Connectivity with City two-way conversion & improved River Drive intersection alignment

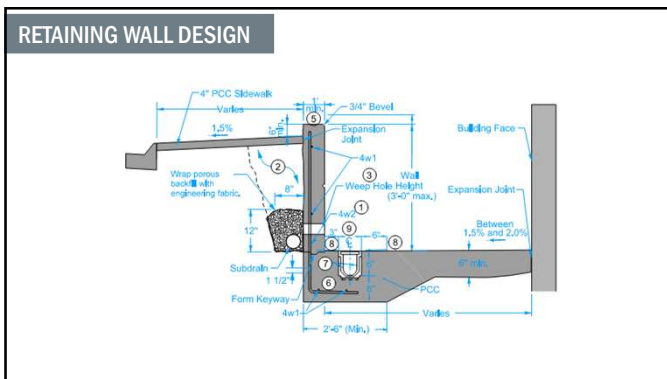
RAISED PROFILE

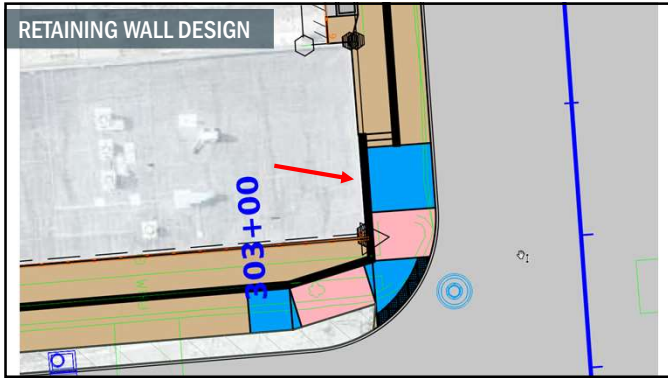


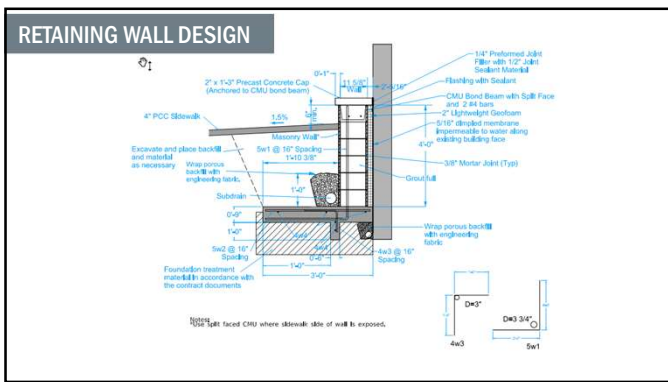


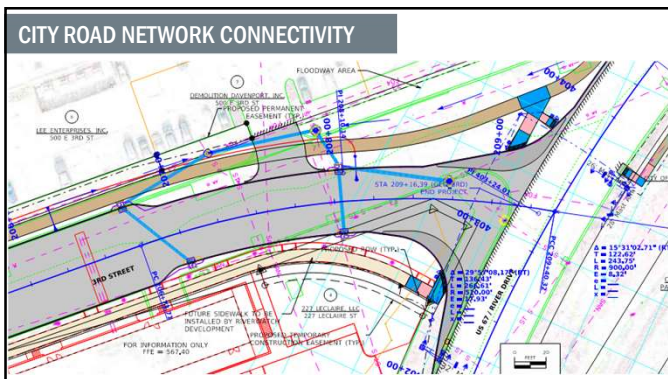












IMPLEMENTATION & LESSONS LEARNED

2

Compressed Schedule

- Determine critical path
- Plan backward
- Predict likely hurdles
- Begin reviews early
- Deliver to City ahead of DOT deliverables
- Share schedule with team, client, various DOT offices

Project Development Critical Path Dates

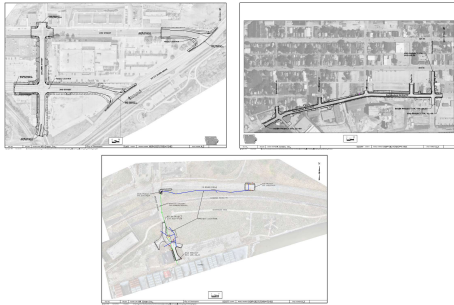
Federal-aid/Primary Projects				All Projects		
Concept Statement		Preliminary Plans	Check Plans	Final Plans, FDC, All other Req'd Docs	Letting Date	Area
Major (1 year)	Minor (6 months)					
01/21/25	04/15/25	07/15/25	09/02/25	10/21/25	01/21/26	Original
02/18/25	05/20/25	08/19/25	10/07/25	11/11/25	02/17/26	
03/18/25	06/17/25	09/16/25	11/04/25	12/08/25	03/17/26	
04/18/25	07/15/25	10/21/25	12/02/25	01/20/26	04/21/26	
05/20/25	08/19/25	11/18/25	01/06/26	02/17/26	05/19/26	
06/17/25	09/16/25	12/16/25	02/03/26	03/17/26	06/18/26	
07/15/25	10/21/25	01/20/26	03/03/26	04/21/26	07/21/26	
08/19/25	11/18/25	02/17/26	04/02/26	05/19/26	08/18/26	
09/16/25	12/16/25	03/17/26	05/05/26	06/16/26	09/15/26	
10/21/25	01/20/26	04/21/26	06/02/26	07/21/26	10/20/26	
11/18/25	02/17/26	05/19/26	07/07/26	08/18/26	11/17/26	Actual
12/16/25	03/17/26	06/16/26	08/04/26	09/15/26	12/15/26	

IMPLEMENTATION & LESSONS LEARNED

3

Multiple Projects

- Consistency of deliverables
- Efficiencies of focused production team
- Program and Project Management redundancy, working in parallel
- Collaborative experience to work through design challenges



IMPLEMENTATION & LESSONS LEARNED

4

Communication

- Conduct routine team meetings
- Share schedule with team, client, and DOT offices
 - LEB-NEPA
 - LEB-Cultural
 - Local Systems
 - Competitive Grant Team
 - District 6
 - Traffic & Safety Bureau
 - Contract Bureau

RE: HDP-1827(705)-71-82 NEPA

10/10/2025 10:00 AM
To: [REDACTED]
From: [REDACTED]
Subject: [REDACTED]

TPMS Project Development

From:	Core Bureau (10/10/2025)
To:	[REDACTED]
Project Number:	HDP-1827(705)-71-82
Location:	In the City of Denver, MARQUETTE Blvd. Just to the West of the Interstate 25 (I-25) and I-70 (I-70) Interchange

Adding the NEPA team to this message. That the architectural submittal is being added for the subject project.

Click here to reply.

From: "Core Bureau" <[REDACTED]>
Sent: 10/10/2025 10:00 AM
To: [REDACTED]
Subject: HDP-1827(705)-71-82 NEPA

The architectural submittal is being added for the subject project.

Updates

- NEPA file Denver Front Mitigation, Maps and Data, Architectural Plans, 705-1011-2, Subarea Architecture pdf was added

HR Green® | Sustainable Infrastructure Engineering, Inc.

Questions



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