Purpose of Flood Control System Committee:
To enable the City Council to discuss and evaluate in greater detail these specific issues that directly impacts the flood control system for the City of Cedar Rapids.

City Council Committee Members:
Council member, Tyler Olson (Chair)
Council member, Marty Hoeger
Council member, Susie Weinacht

- Mayor Bradley G. Hart is an ex-officio member of all Council Committees per City Charter Section 2.06.

Agenda:

1. Approval of Meeting Minutes (February 2018)

2. Informational Items:
   2. Grant and Partnership Report (5 Mins) Rob Davis, Public Works
   3. 8th Avenue Bridge Update (5 Mins) Rob Davis, Public Works

3. Recommendation Items:
   1. Master Plan Update (15 Mins) Rob Davis, Public Works
   2. FY 19 Work Plan (10 Mins) Rob Davis, Public Works

4. Public Comment
Present: Council members: Tyler Olson (Chair) and Susie Weinacht

City Staff: Sandi Fowler (Asst City Manager), Rob Davis (Flood Control Program Manager), Nate Kampman (City Engineer), Angie Charipar (Asst to the City Manager), Bill Bogert (Anderson-Bogert) and Jim Halverson (HR Green), Mandee Beardsley (Administrative Assistant I)

Meeting called to order at 11:05 am by Council member Olson.

Committee unanimously approved the October 2017 meeting minutes with no comments added.

Committee approved to hold future Flood Control System Committee meetings quarterly on the First Tuesday of the month at 11:00 am, but would be willing to meet more frequently as issues arise.

Rob Davis shared the December Financial Report. The City of Cedar Rapids is tracking ahead of its Sales Tax Increment forecast, and should receive its maximum allotment for FY18. The December Financial Report shows the NewBo neighborhood leads the east side expenditures. The Financial Report also shows funds being spent on the West side of the river being close to that of East side, due to property acquisition. Per policy, voluntary property acquisition takes precedence over construction.

Construction on the Czech Village Levee is next to initiate. Councilmember Tyler Olson asked about the discrepancy between sales tax expenses exceeding sales tax revenues. Rob explained the state requires all sales tax money allocated needs to spent or it goes back to the State. Council Member Weinacht asked with the annual sales tax revenue is capped at $15 Million (answer is that is per State legislation). The Committee discussed and decided not to change the format or information on the Financial Report.

Rob Davis presented the Grant Log that gives an overview of all grants that have been applied for since 2015 adoption of the FCS Master Plan. The most recent grant submittal was a FEMA Hazard Mitigation grant, which is a 50/50 program. Successful grant applications to date total $8,251,140.92.

Rob presented an overview of the Flood Control System in a Power Point. The adopted east side alignment upstream of Quaker Oats was compared against an alternative that goes around Cedar Lake to Shaver Road. Public feedback on this alternative was positive at an Open House on January 25, 2018. Many of the businesses that would be protected have expressed that they would like to see more done to protect the extra properties. Councilmember Weinacht asked
about future development near Cedar Lake? Rob stated that there is not really room for future development however; the businesses that are currently there would have the chance for re-investment into their properties if the alternative became the new route. A decision point on this could be as early as end of 2018, depending upon environmental reviews.

Some few quick facts on what is the Flood Control System:
- 7.5 miles long
- 20% removable walls
- Protection level to the 2008 Flood Volume (which is approximately the 2008 flood elevation plus 4 feet due to the system constricting the width of the flow)
- Master Plan adopted in 2015 by City Council
- Master Plan is organized to be updated regularly
- Two larges components (walls and pump stations) comprise 50% of construction costs
- Staff initiative is to reduce number of gates (Master Plan had 35, now 30, goal 25)

Councilmember Weinacht asked what the “big picture” budget looks like? Sandi Fowler stated that Parks and Recreation Department is preparing to take over the green space (e.g. Sinclair Levee with mowing) and Utilities Department has factored into their FY 19 budget maintenance for two pump stations. Future meetings will discuss further funding of the system and funding of the maintenance.

Councilmember Olson asked what the timeline would like look if the Flood Control System were to be expedited? Rob explained that limiting factors include regulatory (e.g. Environmental (IDNR)), business coordination (e.g. Quaker and Union Pacific RR have taken multi-years), utility relocations, coordination amongst projects (e.g. not closing multiple river crossings simultaneously), etc. Staff has been using accelerated overall project timeline as 13 years versus the scheduled 20 years per the Master Plan.

The FCS team continues to work on new and improved technologies to reduce long term operation costs and improve reliability. A video was shown of an automated roadway flood gate versus a manually erected flood gate.

The overview presentation concluded with renderings of the NW Memorial, which will be completed for June 13, 2018 – the 10 – year anniversary of the 2008 Flood is approaching this June.

No public comment.

The meeting was adjourned at 12:05 pm.

Respectfully,

Mandee Beardsley
Administrative Assistant I
Public Works
A summary of projected vs actual Iowa Flood Mitigation revenue received thru May 2018 is shown below. The next quarterly payment is expected in August.

### Projected vs Actual Payments Received from State

<table>
<thead>
<tr>
<th>Year</th>
<th>Estimated Increment from Payments from State</th>
<th>1st Qtr</th>
<th>2nd Qtr</th>
<th>3rd Qtr</th>
<th>4th Qtr</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>$2,577,927</td>
<td>$1,556,798</td>
<td>$1,021,129</td>
<td>$814,489</td>
<td>$2,577,927</td>
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<tr>
<td>2015</td>
<td>$8,144,890</td>
<td>$3,041,641</td>
<td>$2,481,328</td>
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<td>2016</td>
<td>$7,689,027</td>
<td>$1,752,565</td>
<td>$2,845,825</td>
<td>$478,948</td>
<td>$7,689,027</td>
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<tr>
<td>2017</td>
<td>$10,381,241</td>
<td>$3,082,609</td>
<td>$2,801,406</td>
<td>$1,368,219</td>
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<td>2018</td>
<td>$13,140,760</td>
<td>$2,441,683</td>
<td>$2,613,990</td>
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<td>$5,055,673</td>
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<tr>
<td>2019-2033</td>
<td>$15,000,000</td>
<td></td>
<td></td>
<td>$55,641</td>
<td>$33,848,759</td>
<td></td>
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<tr>
<td></td>
<td>$266,933,845</td>
<td></td>
<td></td>
<td></td>
<td>$33,848,759</td>
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</table>

In May 2018, $776K was spent on flood control with the majority of the recent expenses being design and construction of the Sinclair levee & detention basin. Since April of 2014, $62M has been spent on flood control. The following summarizes flood control expenditures since April 2014.

### How Fiscal Year 2018 Expenses Have Been Funded:

<table>
<thead>
<tr>
<th>Project location</th>
<th>Total Flood Control Expenses to Date</th>
<th>Iowa Flood Mitigation Program</th>
<th>Community Development Block Grant</th>
<th>90% Flood Local Option Sales Tax</th>
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<tbody>
<tr>
<td>West of Cedar River</td>
<td></td>
<td>$1,675,191</td>
<td>$66,300</td>
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<tr>
<td>Time Check</td>
<td>$12,792,140</td>
<td>$1,675,191</td>
<td>$66,300</td>
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<tr>
<td>Kingston</td>
<td>$970,800</td>
<td>$21,635</td>
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<tr>
<td>Czech Village/Penford</td>
<td>$8,052,046</td>
<td>$2,394,034</td>
<td>$254</td>
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<tr>
<td>East of Cedar River</td>
<td>$5,109,483</td>
<td>$1,061,781</td>
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</tr>
<tr>
<td>Quaker Oats/Cedar Lake</td>
<td>$5,577,111</td>
<td>$194,370</td>
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</tr>
<tr>
<td>Downtown</td>
<td>$28,516,391</td>
<td>$2,791,313</td>
<td>$197,890</td>
<td>$6,650,749</td>
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<tr>
<td>NewBo/Sinclair</td>
<td>$981,095</td>
<td>$137,484</td>
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<tr>
<td>Cargill South</td>
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<td>$8,275,809</td>
<td>$264,474</td>
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<td></td>
<td>$61,989,066</td>
<td>$8,275,809</td>
<td>$264,474</td>
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### How Prior Year Expenses Have Been Funded:

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<th>Project location</th>
<th>Total Flood Control Expenses to Date</th>
<th>Iowa Flood Mitigation Program</th>
<th>Community Development Block Grant</th>
<th>90% Flood Local Option Sales Tax</th>
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<tbody>
<tr>
<td>West of Cedar River</td>
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<td>$10,901,874</td>
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<tr>
<td>Time Check</td>
<td>$12,792,140</td>
<td>$10,901,874</td>
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<tr>
<td>Kingston</td>
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<tr>
<td>Czech Village/Penford</td>
<td>$8,052,046</td>
<td>$5,654,403</td>
<td>$3,355</td>
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<tr>
<td>East of Cedar River</td>
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<td>$4,047,702</td>
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<tr>
<td>Quaker Oats/Cedar Lake</td>
<td>$5,577,111</td>
<td>$1,383,622</td>
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<td>$3,926,618</td>
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<tr>
<td>Downtown</td>
<td>$28,516,391</td>
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<td>$671,281</td>
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<tr>
<td>NewBo/Sinclair</td>
<td>$981,095</td>
<td>$843,611</td>
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<tr>
<td>Cargill South</td>
<td></td>
<td>$34,717,091</td>
<td>$767,740</td>
<td>$6,079,355</td>
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<tr>
<td>SUBMISSION DATE</td>
<td>AGENCY</td>
<td>GRANT</td>
<td>LOCATION</td>
<td>AMOUNT</td>
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<tr>
<td>-----------------</td>
<td>--------------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>6/4/2015</td>
<td>Iowa Economic Development Authority</td>
<td>CDBG Amendment</td>
<td>North Industrial (Quaker)</td>
<td>$911,562.00</td>
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<tr>
<td>6/30/2015</td>
<td>Iowa Homeland Security</td>
<td>GRI</td>
<td>System Wide</td>
<td>Gross-$5,637,523 Net-$3,082,413</td>
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<td>9/16/2015</td>
<td>Federal Transit Administration (FTA)</td>
<td>Property Rights Donation/Grant Forgiveness</td>
<td>Lot 44 NewBo</td>
<td>$170,616.60</td>
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<td>9/29/2015</td>
<td>Iowa Department of Transportation</td>
<td>City Bridge Program</td>
<td>NewBo/Czech Village (8th Ave Bridge)</td>
<td>$1,000,000.00</td>
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<tr>
<td>10/1/2015</td>
<td>Iowa Department of Transportation</td>
<td>Federal Recreation Trails Grant</td>
<td>NewBo/Sinclair</td>
<td>$235,603.00</td>
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<tr>
<td>1/15/2016</td>
<td>Vision Iowa</td>
<td>Community Attraction &amp; Tourism (CAT) Program</td>
<td>Tree of 5 Seasons Park and Trail</td>
<td>$384,500.00</td>
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<td>7/1/2016</td>
<td>Iowa Economic Development Authority</td>
<td>CDBG Amendment No. 7</td>
<td>Sinclair</td>
<td>$1,305,212.00</td>
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<td>9/1/2016</td>
<td>Iowa Economic Development Authority</td>
<td>CDBG Amendment No. 8</td>
<td>Sinclair</td>
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<td>11/9/2016</td>
<td>Iowa DNR</td>
<td>Iowa Brownfield Redevelopment Program</td>
<td>2204 A Street SW</td>
<td>$24,999.00</td>
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<td>12/9/2016</td>
<td>U.S. Economic Development Administration</td>
<td>Public Works</td>
<td>Quaker Oats</td>
<td>$1,729,500.00</td>
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<td>2/1/2017</td>
<td>Iowa Economic Development Authority</td>
<td>CDBG Amendment No. 9</td>
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<td>11/3/2017</td>
<td>FEMA</td>
<td>FEMA Hazard Mitigation</td>
<td>Downtown Gatewell Structures</td>
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<td>11/7/2017</td>
<td>United States Army Corps of Engineers (USACE)</td>
<td>Planning Assistance Study (50/50)</td>
<td>Quaker North &amp; West Side</td>
<td>$75,000.00</td>
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<tr>
<td>5/24/2018</td>
<td>Iowa Department of Transportation (IDOT)</td>
<td>Railroad Revolving Loan and Grant – Targeted Job Creation Fund to the Iowa Department of Transportation</td>
<td>Quaker Oats Flood Control System</td>
<td>$1,028,000.00</td>
</tr>
</tbody>
</table>

**Total Approved** $8,251,140.92
# FCS Partnership Contribution Log

<table>
<thead>
<tr>
<th>DATE</th>
<th>AGENCY</th>
<th>ITEM</th>
<th>AMOUNT</th>
<th>RESOLUTION NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/1/2017</td>
<td>PepsiCo/ Quaker Oats</td>
<td>Reconstruction of Water Service to Accommodate FCS</td>
<td>$900,000.00</td>
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<tr>
<td>4/1/2018</td>
<td>Interstate Power and Light Company</td>
<td>Reimbursement for removal of Methane Line</td>
<td>$10,000.00</td>
<td>0533-04-18</td>
</tr>
<tr>
<td>5/1/2018</td>
<td>Union Pacific Railroad (UPRR)</td>
<td>RR Abandonment to Accommodate FCS</td>
<td>$400,000.00</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** $1,310,000.00
Flood Control System
Master Plan Update

City Council Flood Control Committee

July 3, 2018
Chapter I: INTRODUCTION
Chapter II: EXECUTIVE SUMMARY
Chapter III: The FCS PLAN *
Chapter IV: IMPLEMENTATION PLAN
Chapter V: BUDGET
Chapter VI: ACQUISITION / DISPOSITION POLICY
Chapter VII: AESTHETIC GUIDELINES *

* Proposed Amendments
Recommended Master Plan Updates

- Chapter III – The FCS Plan, Alignment
  - Multiple alignment or structure type revisions
- Aesthetic Guidelines
  - Expand policy to allow individualization with neighborhood features.
FCS Master Plan Updates 2018

Q Avenue Detention Basin
Q Avenue NW over the Levee
Alignment change at former Best Western Coopers Mill Site
Amphitheater to 8th Ave SW Structure Type
Eliminate Gates at Czech and Slovak Museum Truck Entrance
Levee from 16th-17th Ave
Permanent Wall over Levee
Bowling ST SW over Levee

Permanent Wall
Removable Wall
Gate
USACE Alignment
Levee
Detention & Development Area
North Industrial Alternate Alignment

FLOOd CONTROL SYSTEM
STRENGTHENING OUR COMMUNITY
Why Reduce the Number of Wall or Gates

- They are:
  - Expensive to construct
  - Maintenance intensive
  - Less reliable (i.e. they leak)
  - Labor intensive during a flood
  - More difficult to blend with aesthetic character of neighborhood
**Bowling Street SW over Levee**

**Current Master Plan**

**Proposed Master Plan**

![Map showing current and proposed master plans for Bowling Street SW over Levee.](image)

**16-2020 Czech Village Flood Control System**
Issued February 26, 2016

Work underway in the Czech Village area is part of a multi-year effort to construct permanent flood control for the Cedar Rapids community. Improvements in this area include the construction of a permanent levee as well as creating a new roadway alignment for 21st Avenue. The entire system will stretch north to south on both sides of the Cedar River, and will include a combination of levees, floodwalls, and gates.
• Change from removable wall to solid wall
• Aesthetic upgrade
NCSML Truck Entrance

- Move wall closer to river
- Adjust alignment to remove 3 gates
- Aesthetic upgrade
- Access to NCSML during a flood

**Current Master Plan**

**Proposed Master Plan**
• Provide combination levee and foldup wall
• Narrow foot print to accommodate development
• Allows truck and ADA pedestrian access to Amphitheater
• Wall from 7th Avenue to 8th Avenue
• Eliminate 1 to 2 gates
• Aesthetic upgrade
• Adjust alignment to the East to allow for additional redevelopment at F Avenue NW
**Removal of one gate**

**Eliminate walls either side of O Avenue NW**

**Aesthetic upgrade**
Additional Detention

- Additional detention basin at Q Avenue
- On 8 City-owned parcels
- Improved internal drainage and pump station operation
• Process Policy for Individualization of Aesthetic Elements
  – Staff review and recommendation
  – Council Committee recommendation
  – City Council approval

• Example
  – Wall at National Czech and Slovak Museum and Library

• Policy update being done to be consistent with goals of the Master Plan fitting with Neighborhoods.
• $1.75M East side contract / $1.1M West side contract