Project goal is to reduce flood risk in Meadow Street neighborhood above Amtrak embankment.
FEMA flood mapping shows substantial flood risk to neighborhood

Does not include future sea level rise, flood risk will worsen
Existing physical conditions are a challenge

“Cattle Crossing” is primary flood pathway

Meadow Street low point is at elevation 2.62’

Mean Higher High Water at elevation 2.97’
UCONN Connecticut Institute for Resilience & Climate Adaptation modeled current and future flooding

Future modeled conditions include 20-inches sea level rise by 2050
10-YEAR RETURN STORM FLOOD MAPPING
EXTENT OF FLOODING
50 YEAR

EXTENT OF FLOODING
50 YEAR PLUS SEA LEVEL RISE

50-YEAR RETURN STORM
FLOOD MAPPING

RESILIENT CONNECTICUT PHASE III
RESILIENT MEADOW STREET

November 29, 2022

March 1, 2023

LEGEND
- Flood Depth
- Community Assets
- Ball Field
- Flood Depth 6.2 - 11.2 ft
- Flood Depth 6.2 - 8.2 ft
- Flood Depth 4.3 - 6.2 ft
- Flood Depth 2.3 - 4.3 ft
- Flood Depth 0.0 - 2.3 ft
EXTENT OF FLOODING
100 YEAR

100-YEAR RETURN STORM FLOOD MAPPING

EXTENT OF FLOODING
100 YEAR PLUS SEA LEVEL RISE
Predicted that today’s 100-year frequency flood will be equivalent to the projected 10-year frequency flood in 2050.

<table>
<thead>
<tr>
<th>STORM EVENT</th>
<th>NUMBER OF STRUCTURES IMPACTED (NORTH OF TRAIN TRACKS)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Current Climate</td>
</tr>
<tr>
<td>10-year</td>
<td>0</td>
</tr>
<tr>
<td>50-year</td>
<td>29</td>
</tr>
<tr>
<td>100-year</td>
<td>35</td>
</tr>
</tbody>
</table>
Two Options

1) Install gate to close “Cattle Crossing” during floods

2) Install gate and new floodwall to close “Cattle Crossing” and reinforce Amtrak embankment
<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>ADVANTAGES</th>
<th>DISADVANTAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gate-Only</td>
<td>Relatively Low Cost</td>
<td>Likely not eligible for FEMA funding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Requires human operation to be deployed</td>
</tr>
<tr>
<td>Gate with Flood Wall</td>
<td>Eligible for FEMA funding</td>
<td>Multimillion dollar project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Major visual impact</td>
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</table>
RESILIENT MEADOW STREET

QUESTIONS?