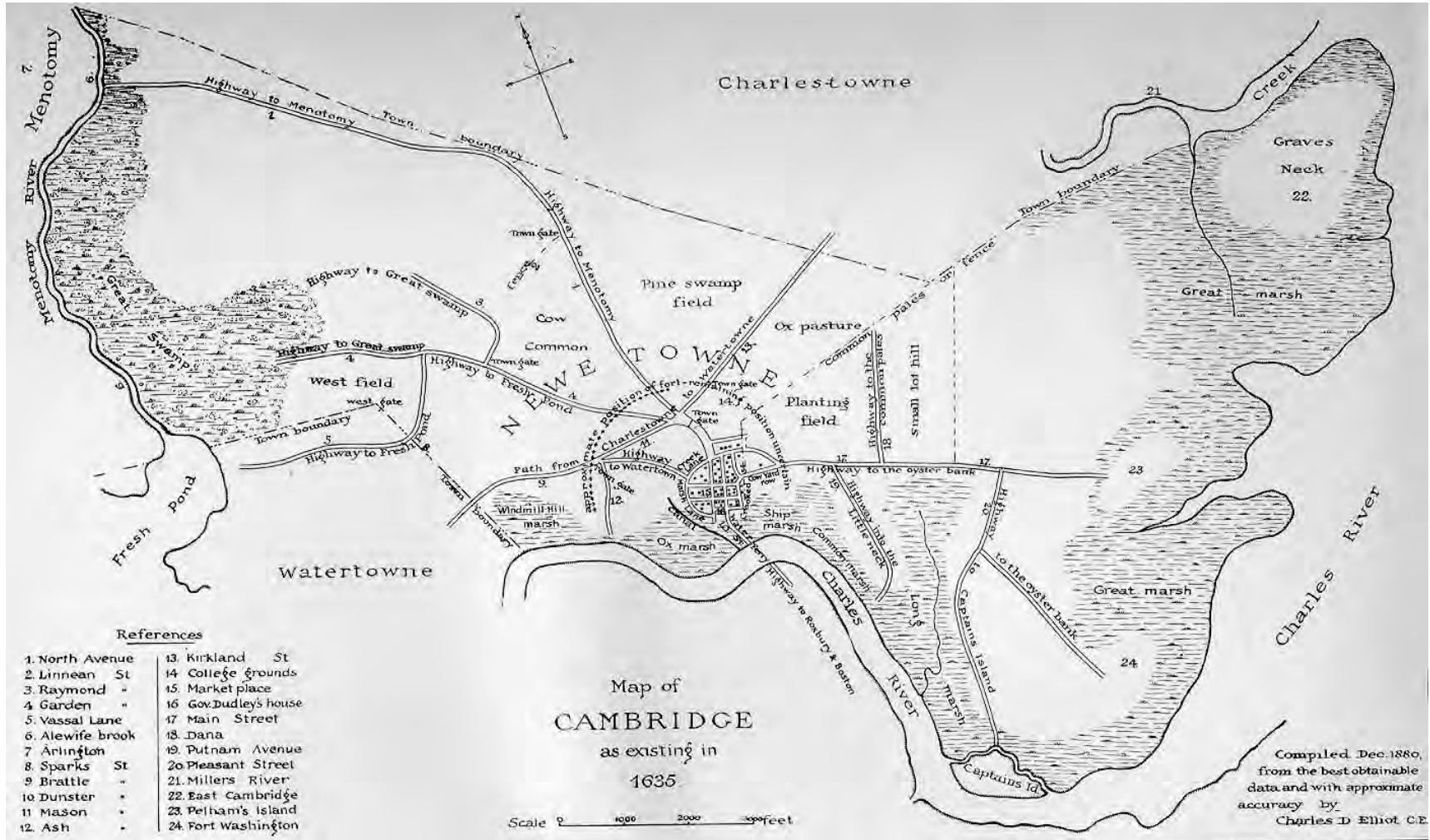


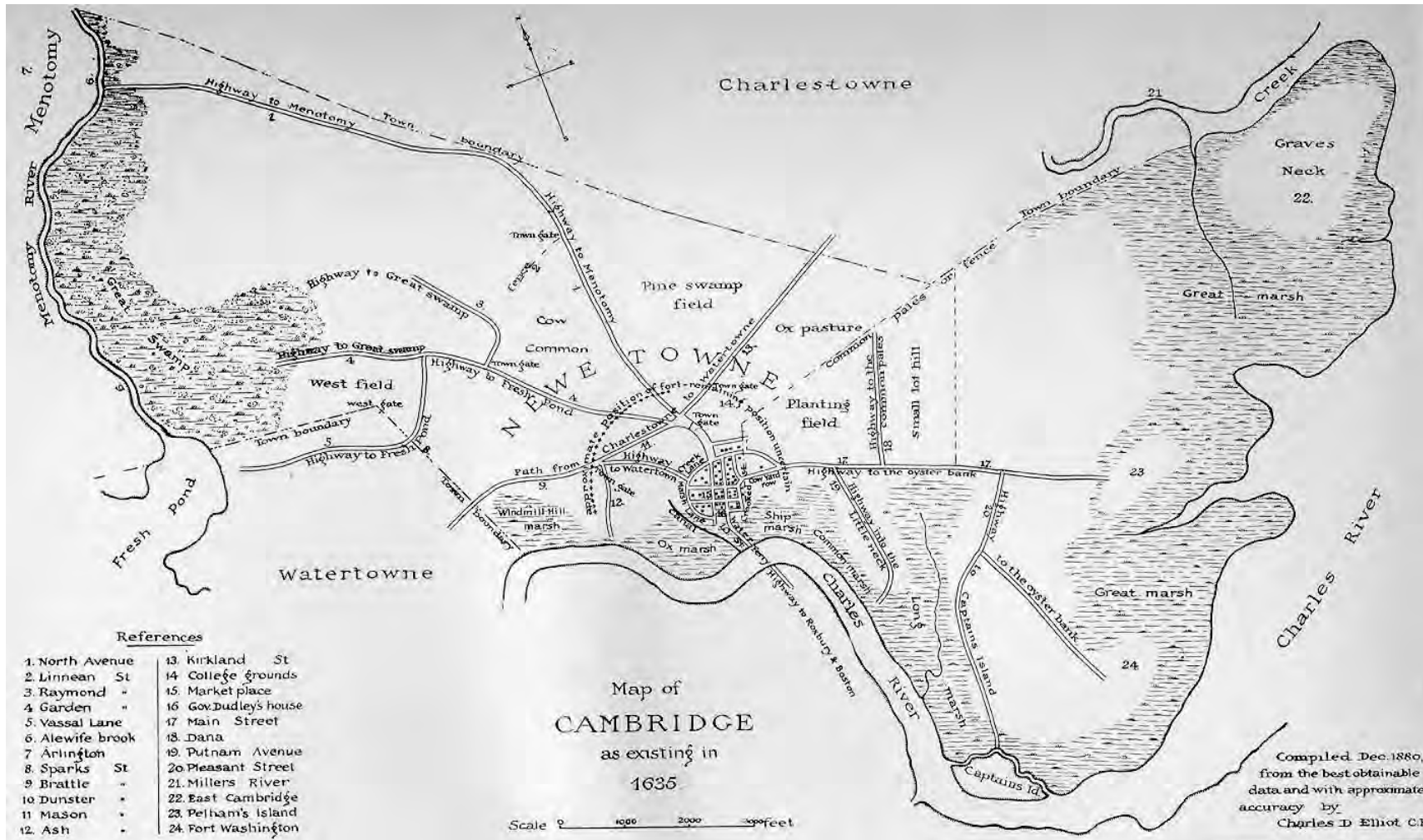


Kendall Square
Our Stormwater Challenge
April 6th 2012

City of Cambridge 1635



City of Cambridge 1635

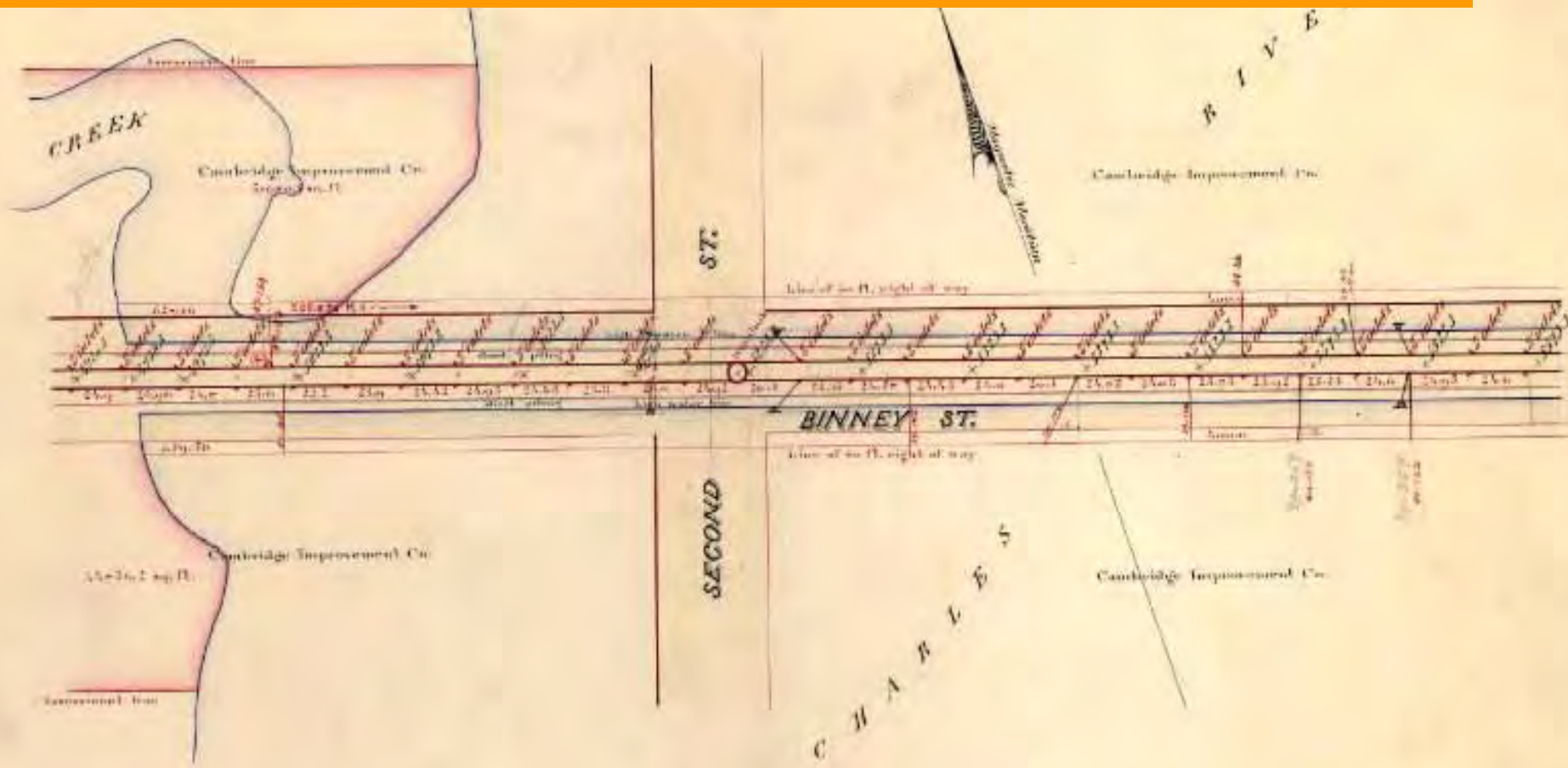


• Charles River Seawall 1903



SEA-WALL ON CHARLES RIVER.
LOOKING EAST TOWARD MAIN ST.

Binney Street Sewer at 2nd Street 1876



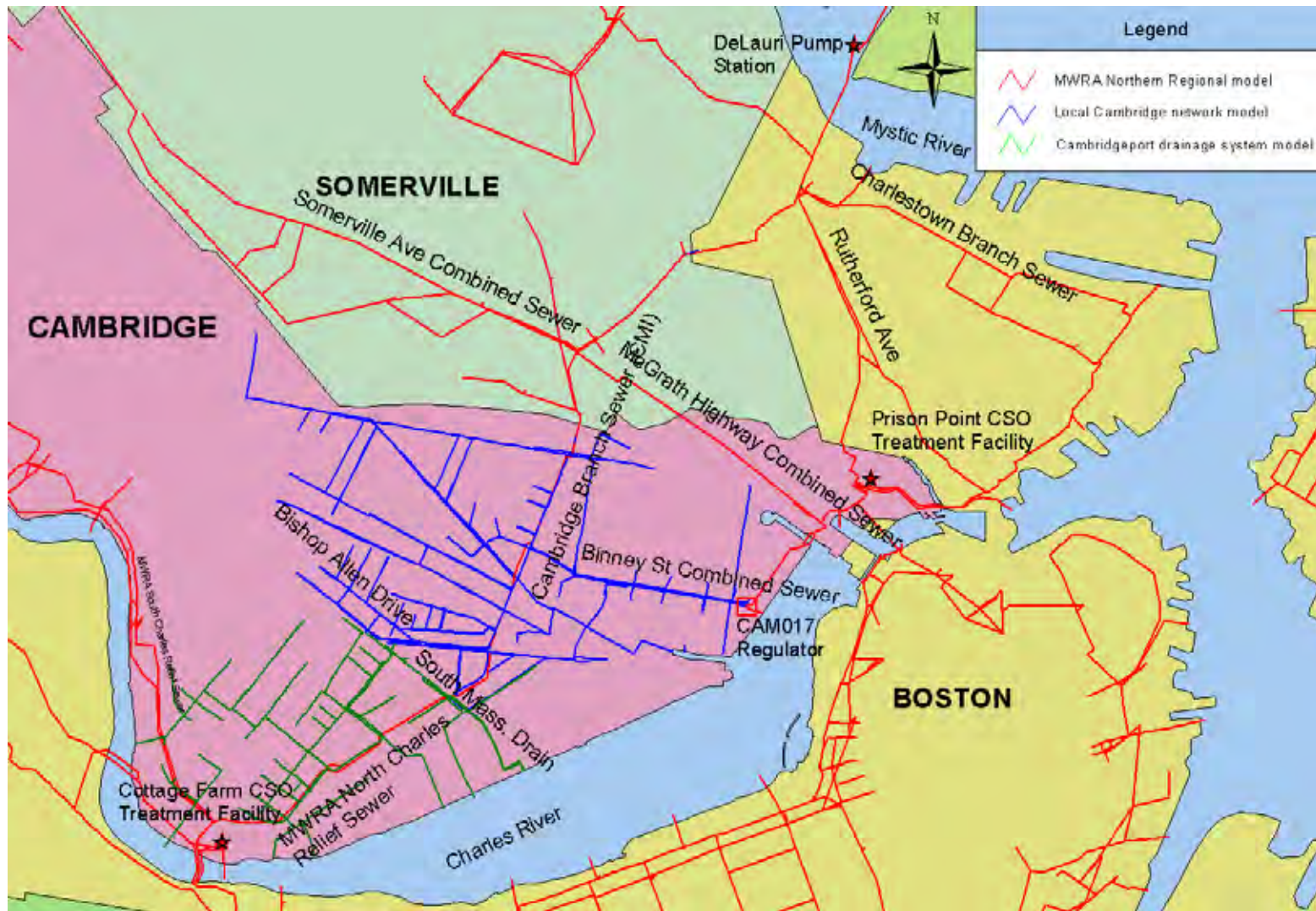
"BINNEY ST. SEWER"

FOR ASSESSMENT

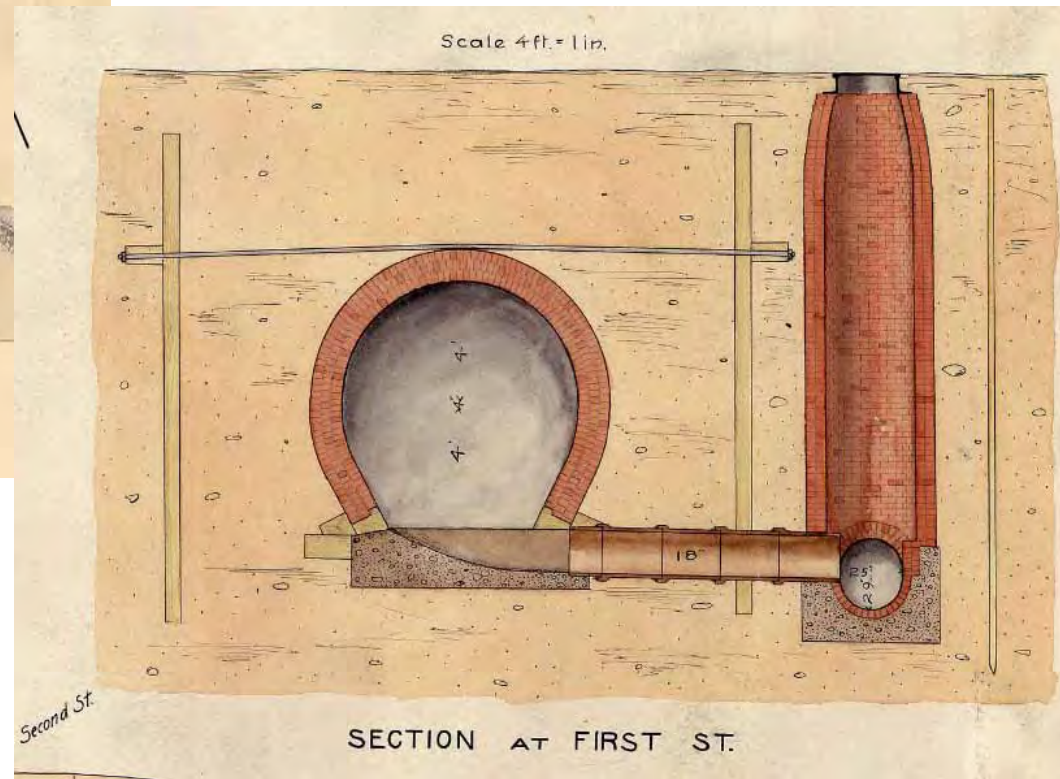
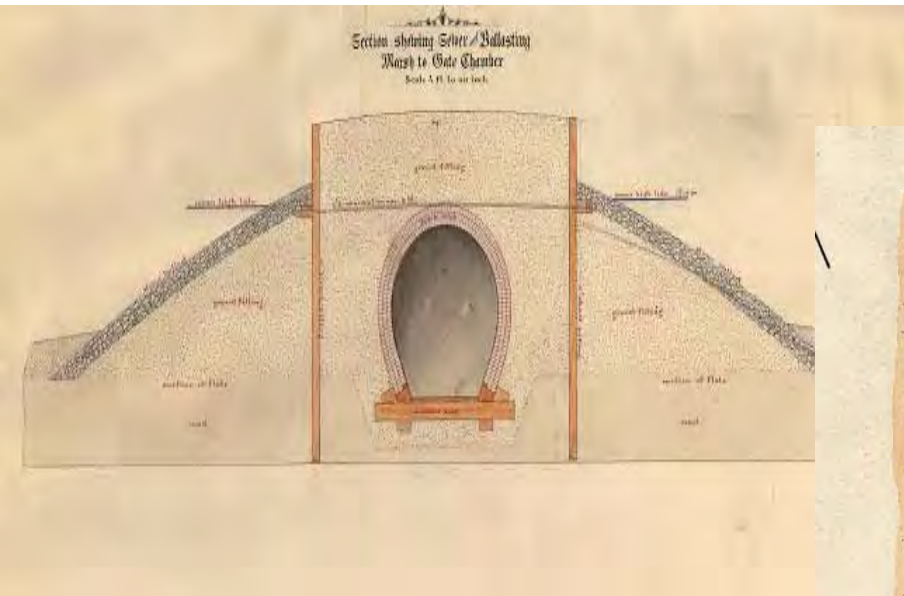
Scales 40 & 6 ft. to an inch



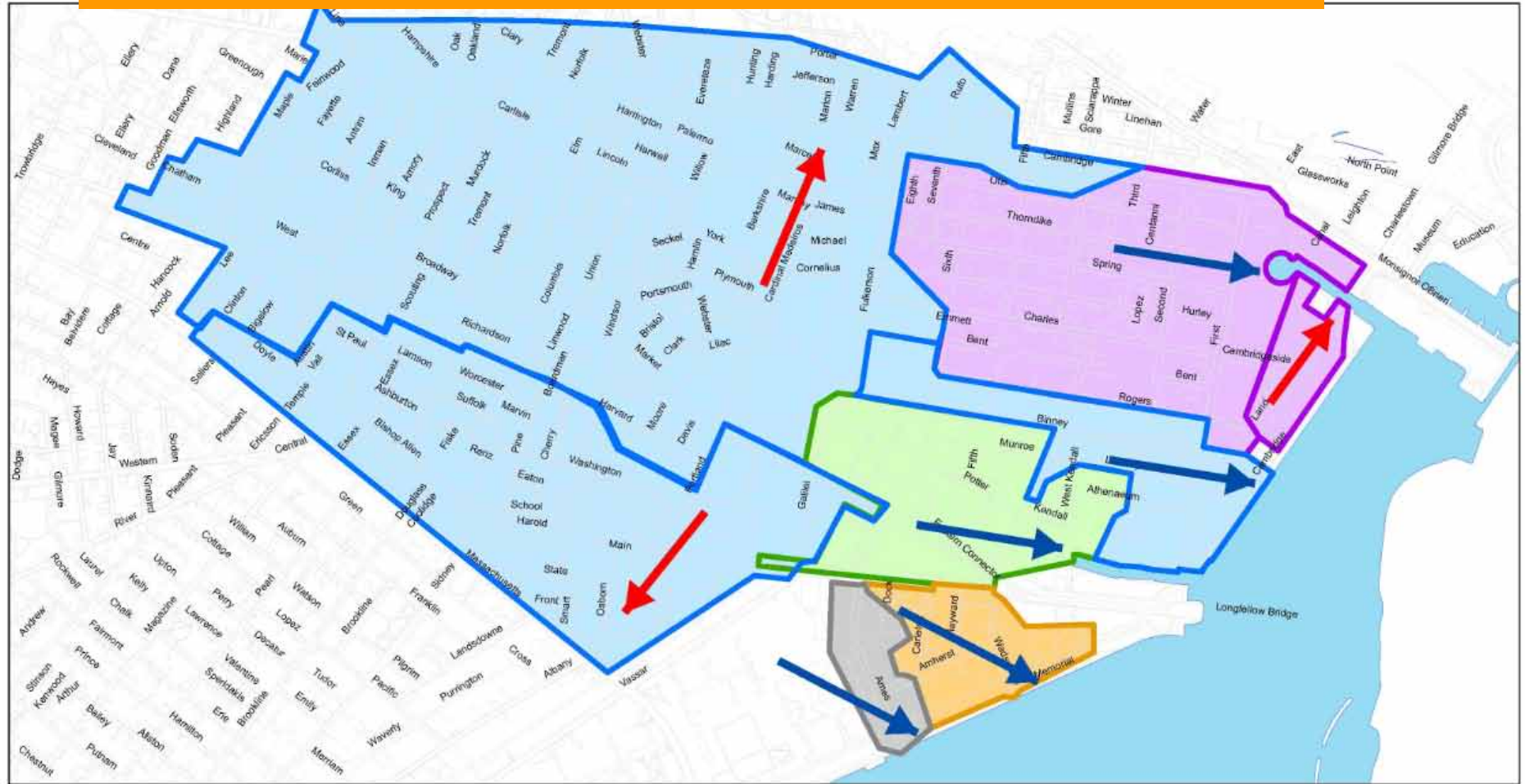
Metropolotian Combined Sewer System



Binney Street Combined Sewer and Sewer Systems late 1800s.



Kendall Square Drainage Areas



Kendall Square Drainage Area
Figure 1

04/05/2012
 P:\Cambridge Projects\CAM017 Binney St Weir\05 Study\GIS Files\Kendall Map for CDPW



Legend

- Broad Canal Catchment
- Ames Catchment
- Lechmere Catchment
- Wards Catchment
- Can

Direction of WET FLOWS

Direction of DRY FLOWS



Broadway July 10th 2010

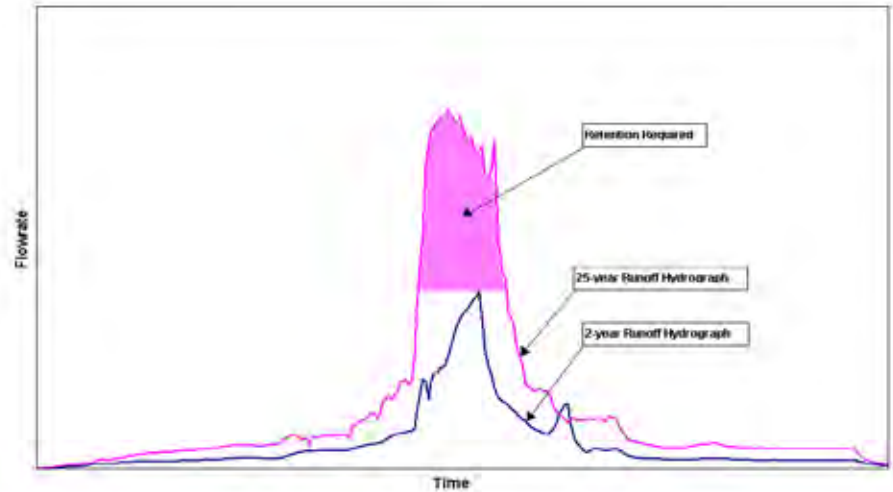


Sewer System Back-up July 13 1998



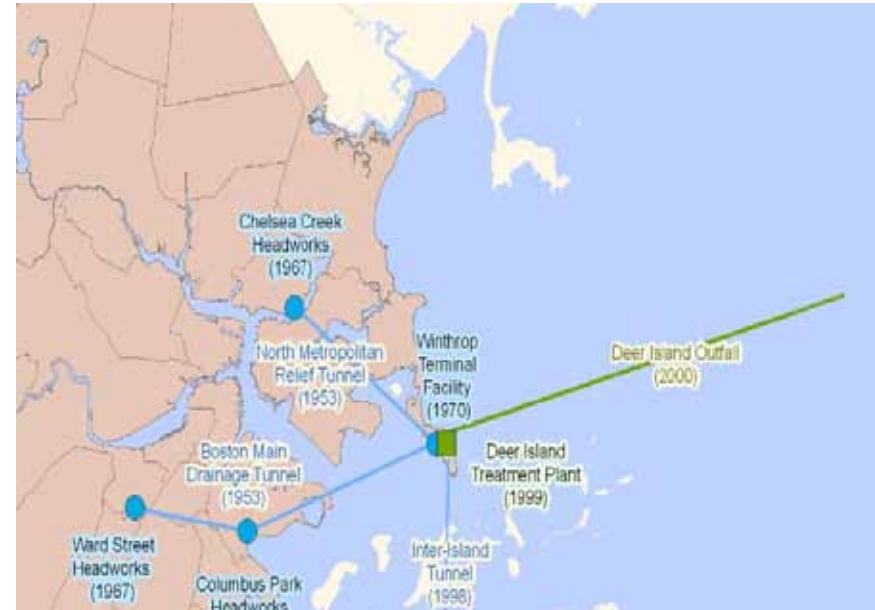
• Stormwater Quality Control:

- Peak Runoff Management.
- Flood Storage.
- Groundwater Recharge Management.
- Phosphorus management.
- Suspended Solids Management.
- Use of sustainable practices must be prioritized.



• Sanitary System Control:

- Inflow & Infiltration Removal
- Sewer system storage



Integrated Approach to Stormwater Management



Low Impact Development Techniques



The Retrofit Alternative



Future Challenges

- TMDLS
- Climate Change

