



Kempton Street Green Infrastructure Outreach Presentation April 5, 2023



Presented by



Our Project Team Presenters



Danielle Spicer, P.E., LEED SP, ENV SP
Group Leader/Project Manager



Juli Riemenschneider, RLA, ASLA
Landscape Design

Agenda

- Existing Conditions
- Project Objectives
- Initial Review of Corridor
- Stormwater & Landscape Improvements
- Schedule
- Questions

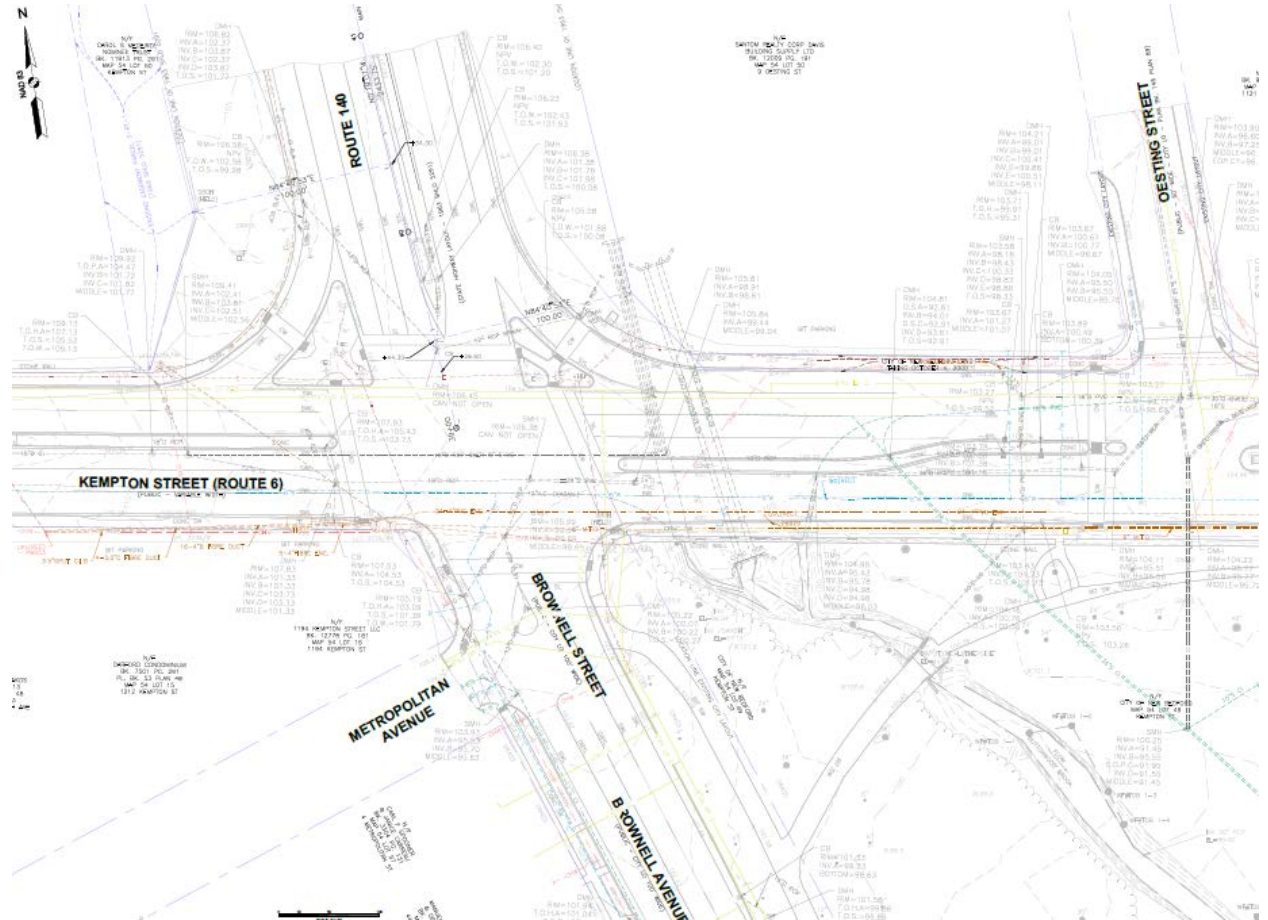
Existing Conditions & Project Challenges

- Kempton Street is a major corridor in New Bedford. The drainage on and in the vicinity of Kempton Street discharges to Buttonwood Brook.
- Combined sewers and mostly untreated stormwater degrade water quality in the brook.



Existing Conditions & Project Challenges

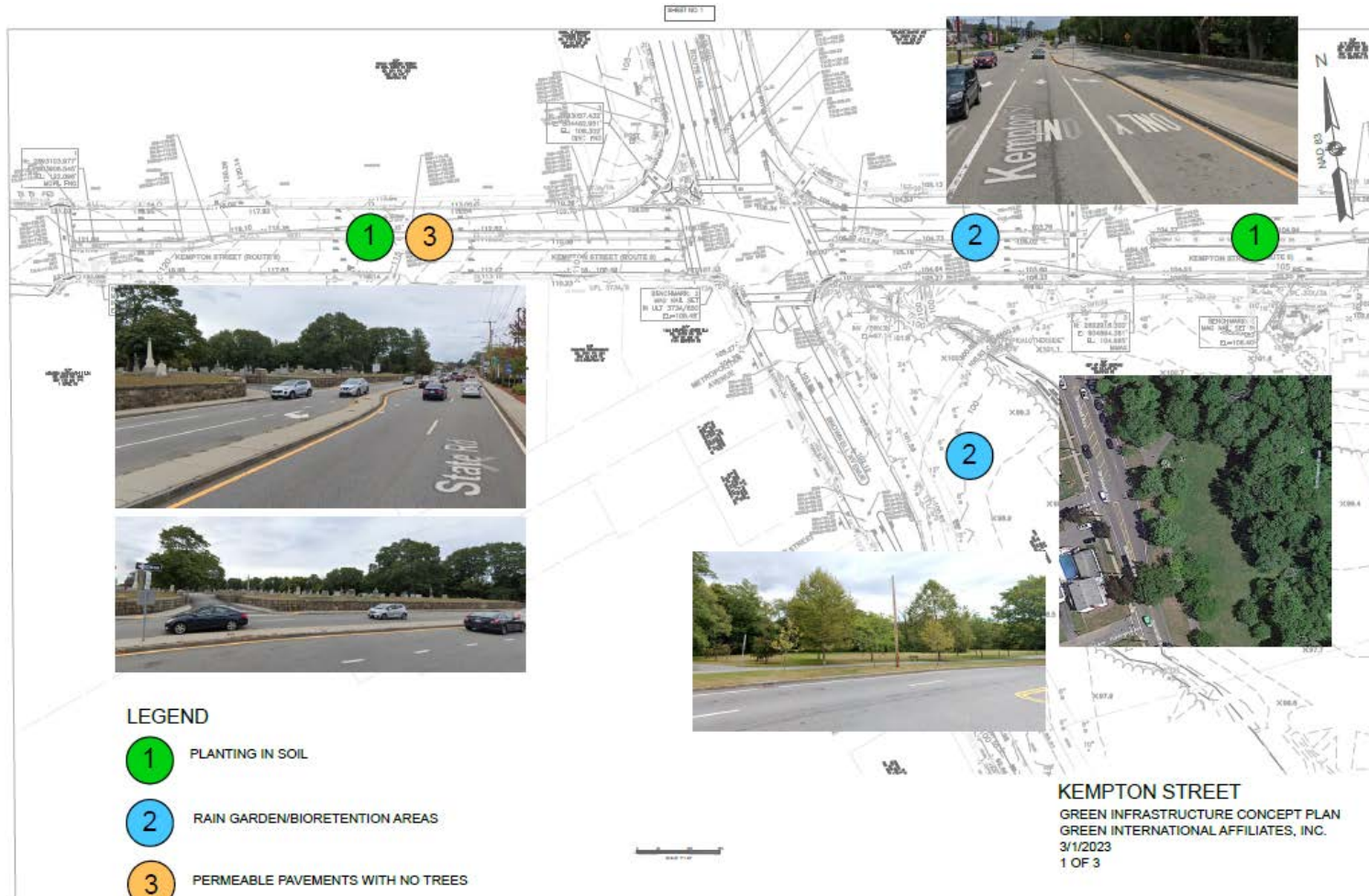
- Narrow ROW and limited space
- Existing utilities



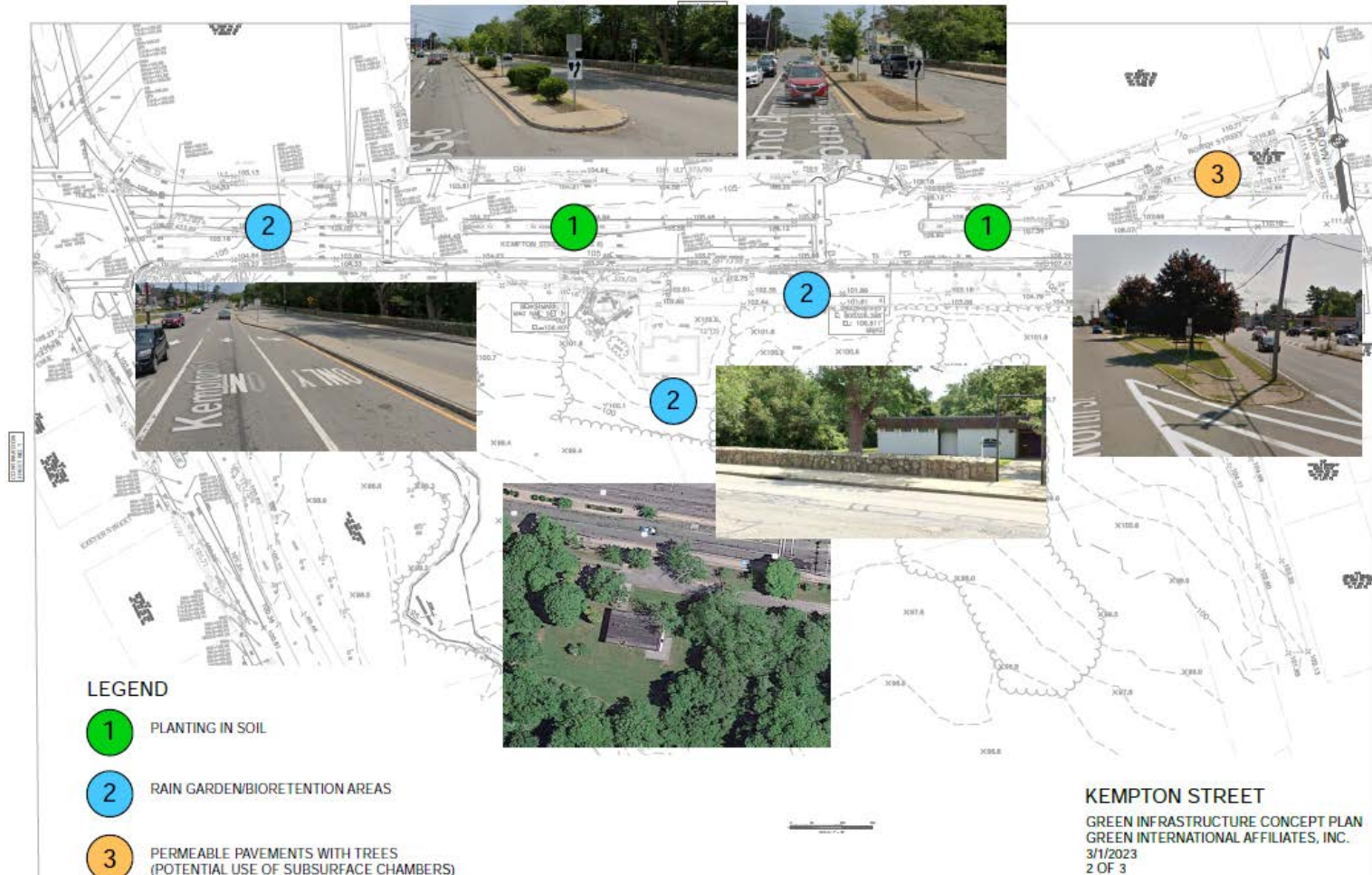
Project Objectives

- Improve stormwater treatment prior to discharge into Buttonwood Brook
- Increase permeable surfaces to promote infiltration
- Provide landscape improvements at several locations along Kempton Street and in Buttonwood Park
- Improve the appearance of the Kempton Street corridor

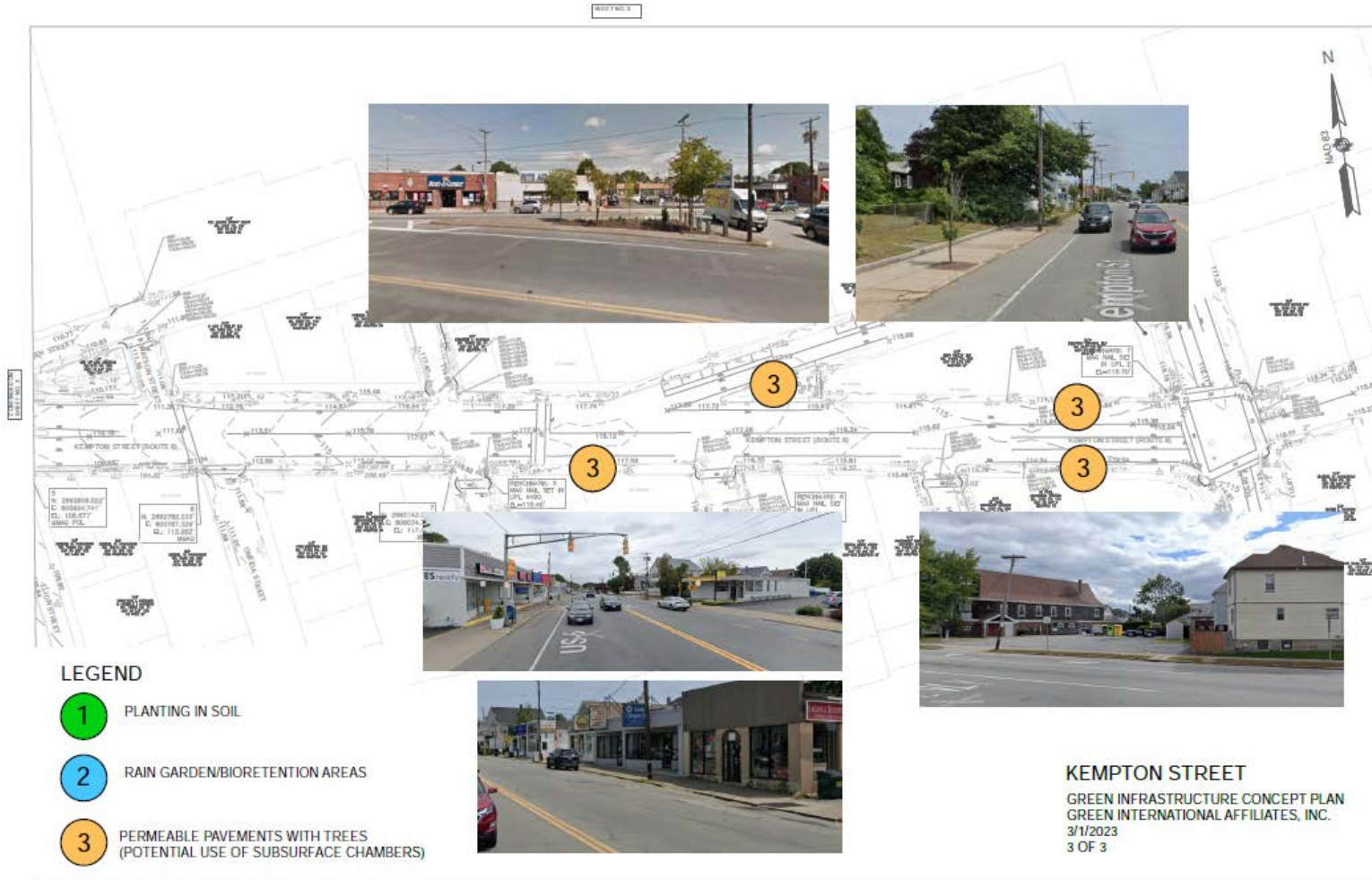
Initial Review of the Corridor



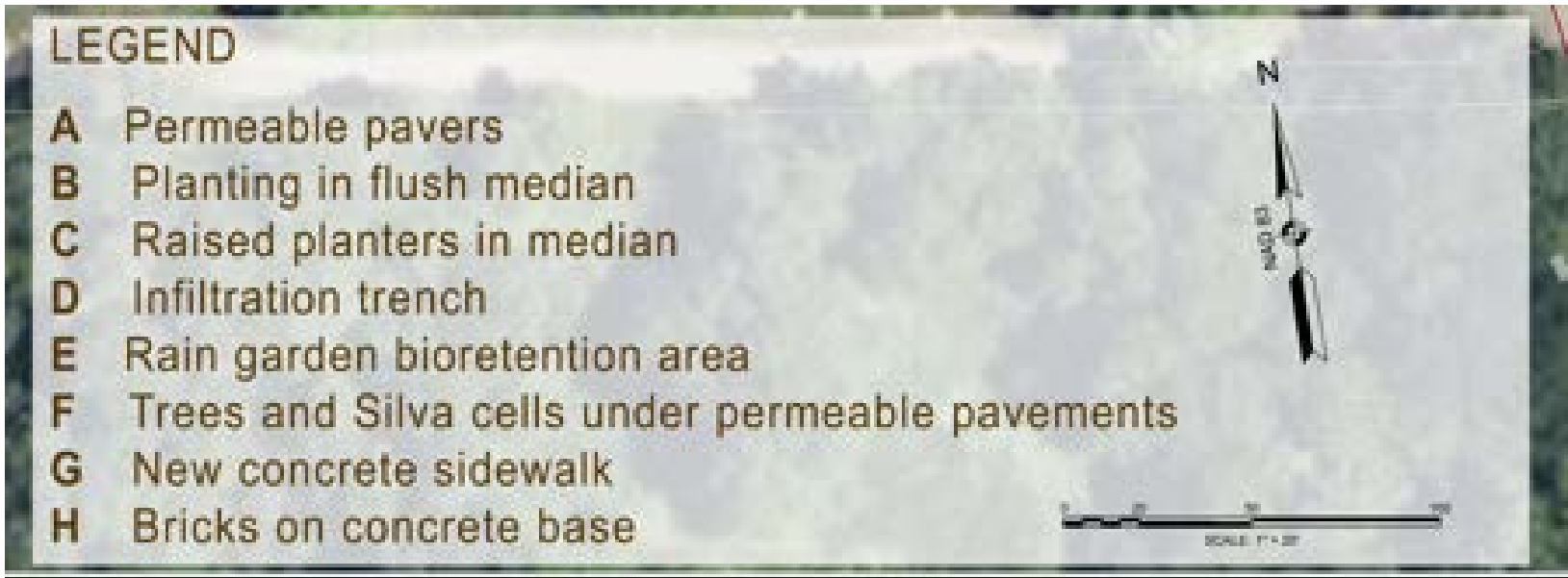
Initial Review of the Corridor



Initial Review of the Corridor



Proposed Improvements



Proposed Improvements



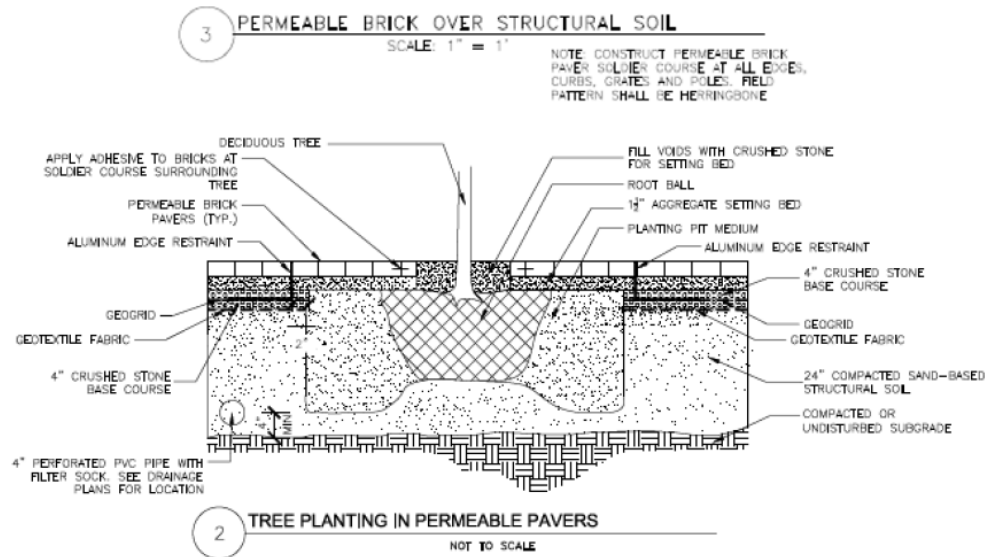
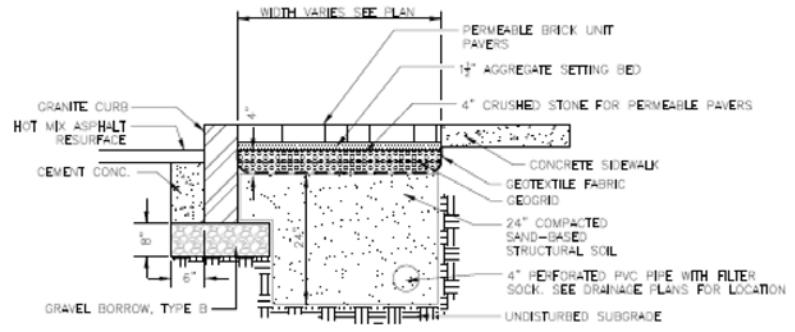
Proposed Improvements



Permeable Pavers Example



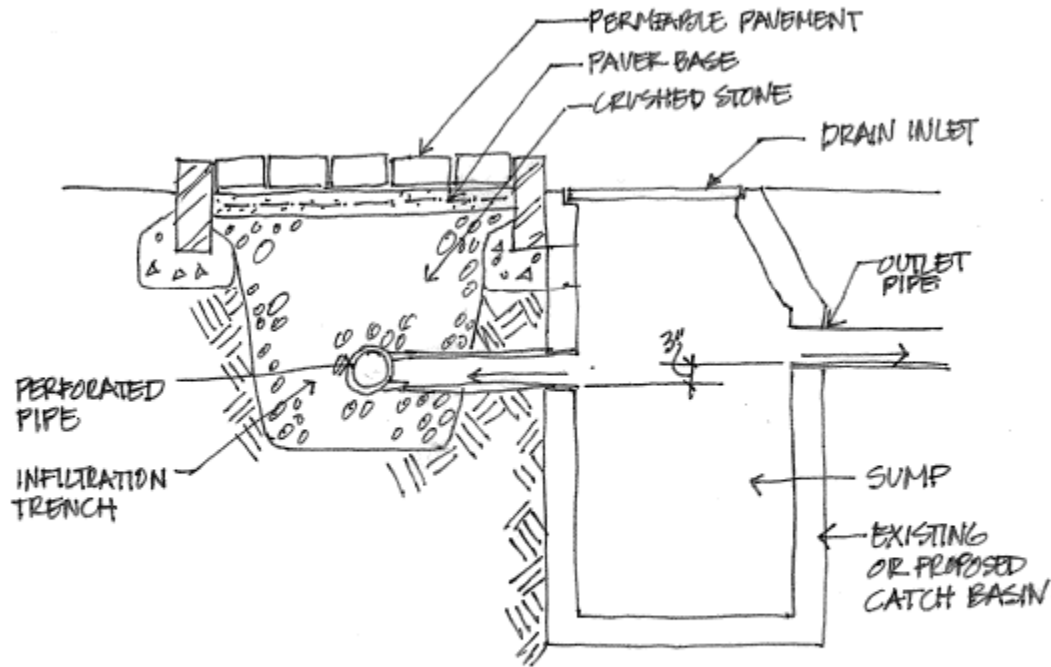
Permeable Pavers Example



Permeable Pavers Locations

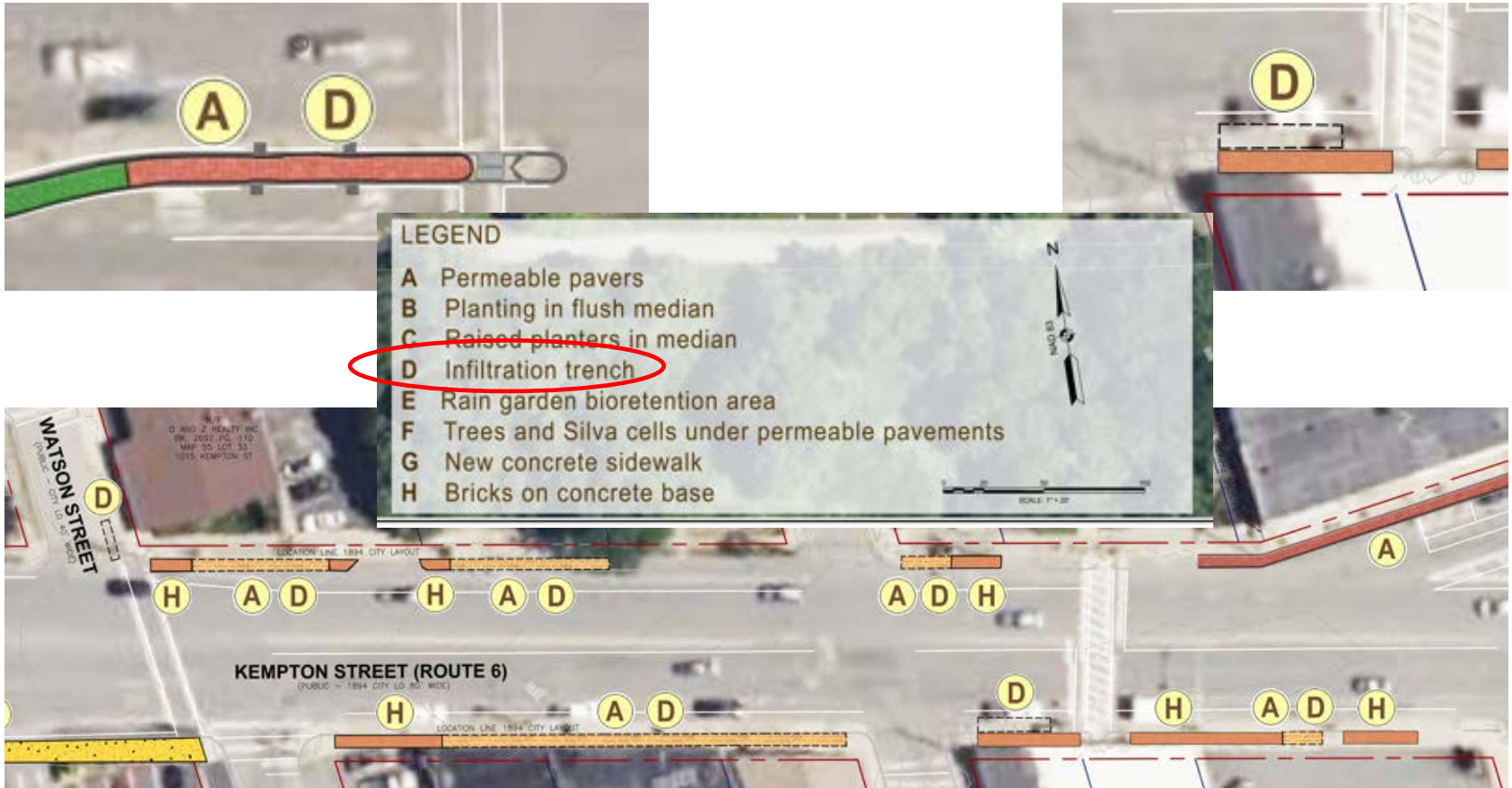


Infiltration Trench Example



INFILTRATION TRENCH AT MEDIAN
1" = 1'-0"

Infiltration Trench Locations



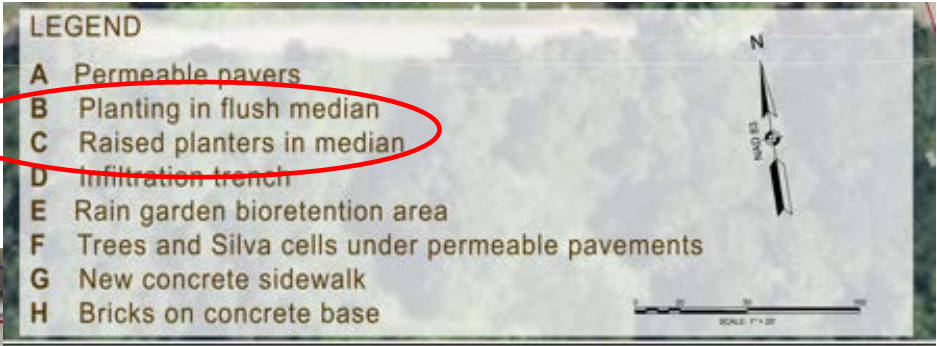
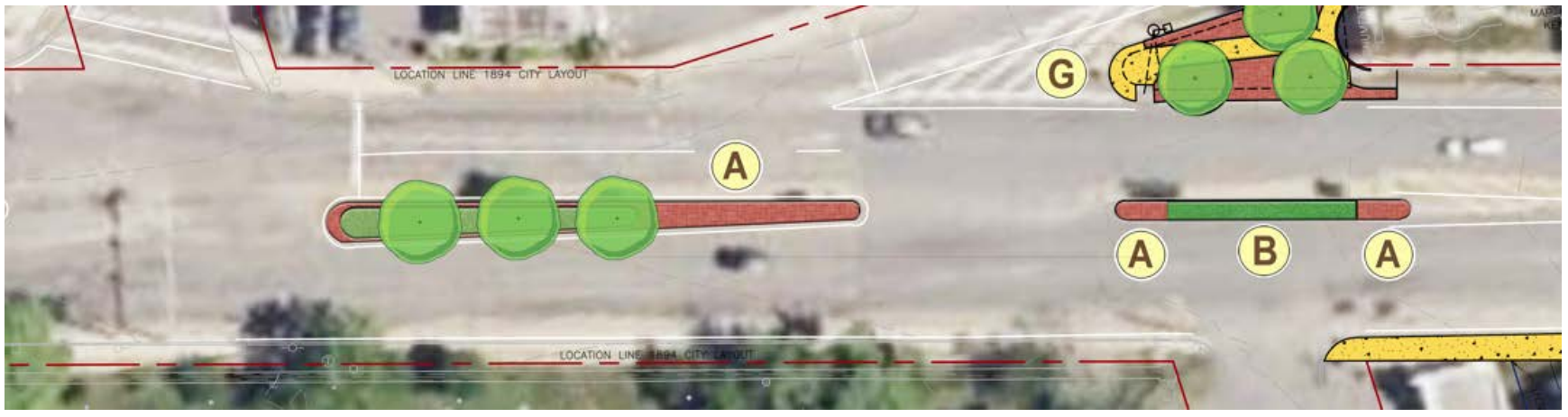
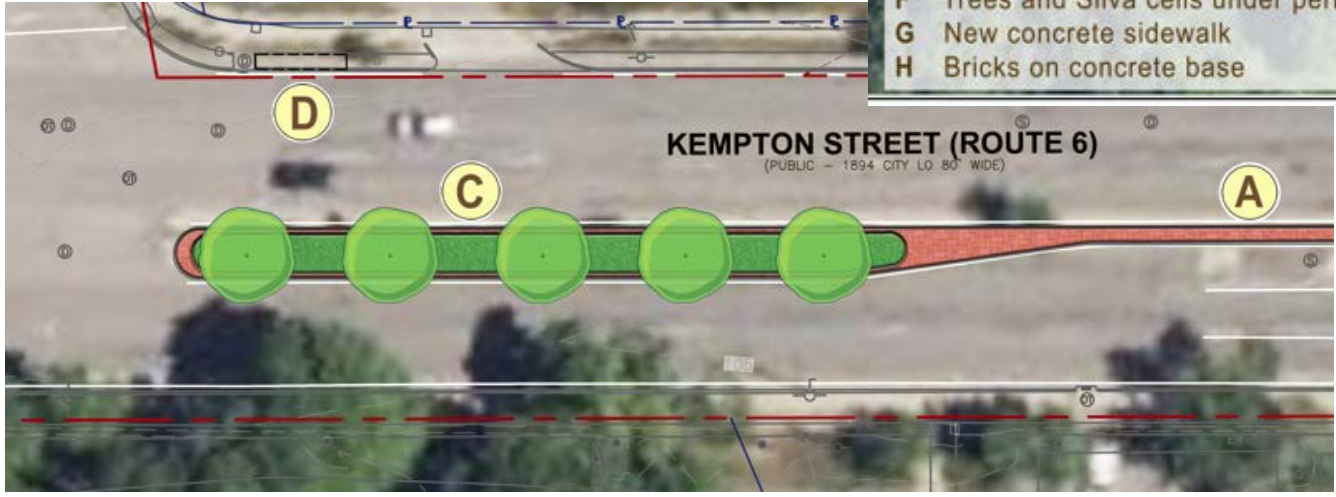
Plantings in Median - Examples



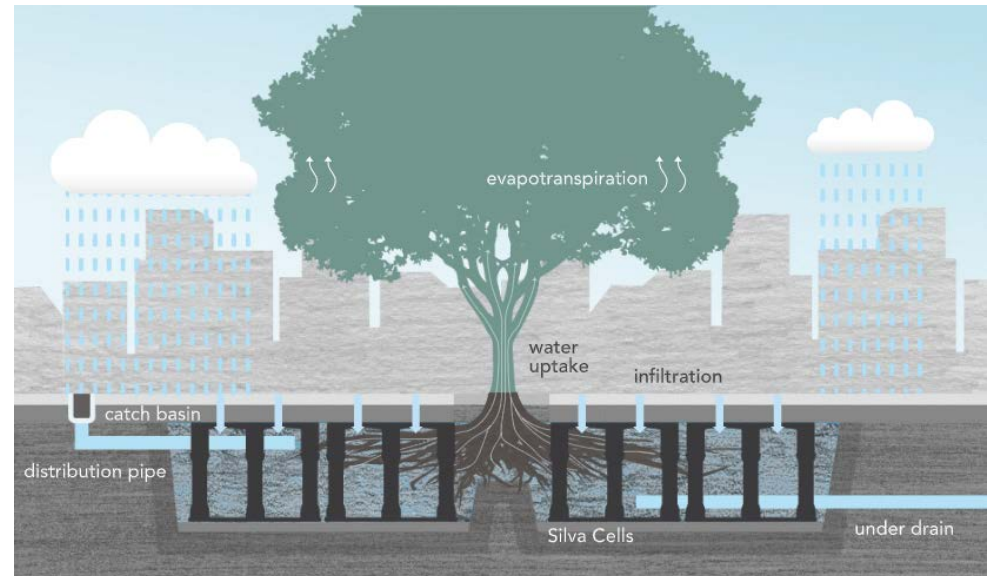
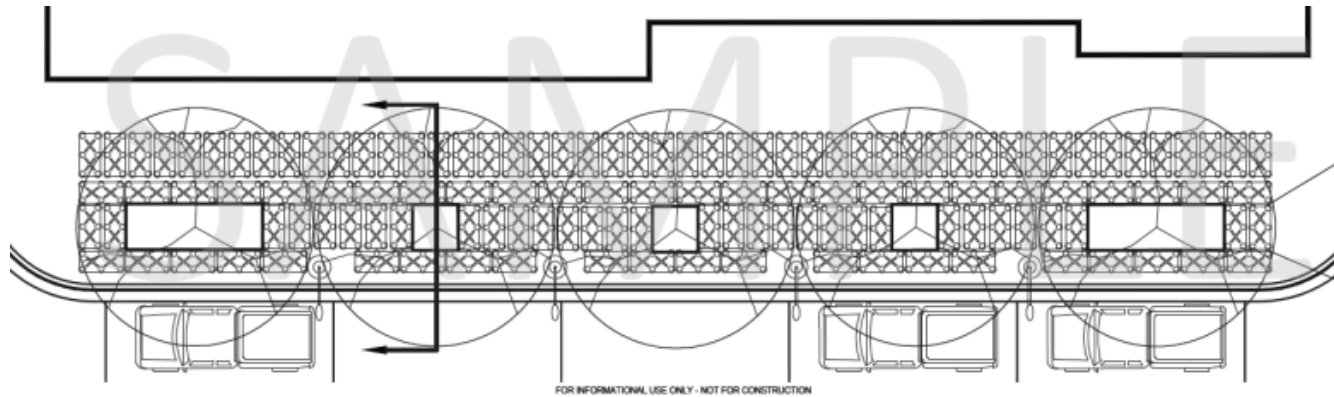
Plantings in Median

LEGEND

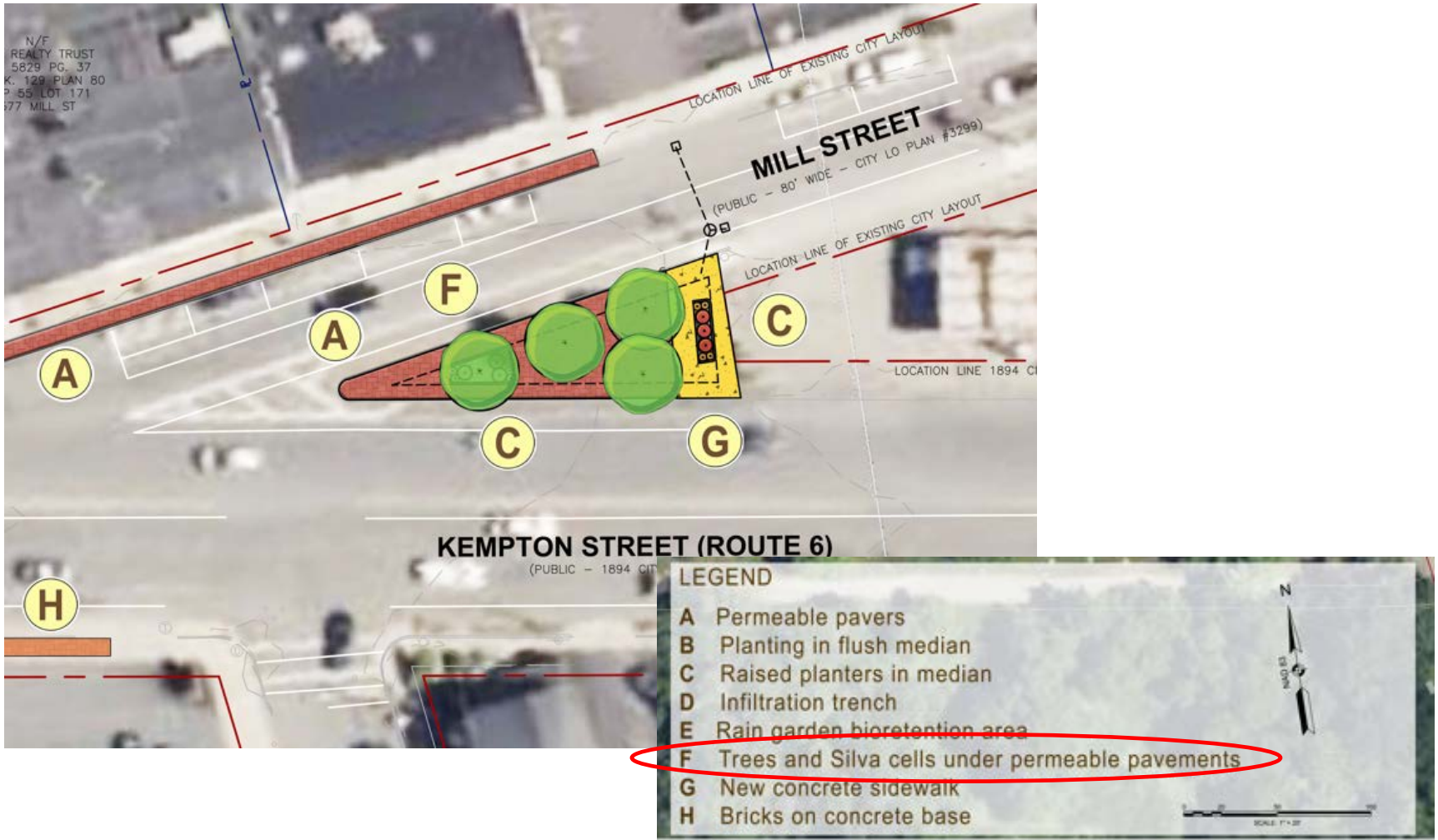
- A Permeable pavers
- B Planting in flush median
- C Raised planters in median
- D Infiltration trench
- E Rain garden bioretention area
- F Trees and Silva cells under permeable pavements
- G New concrete sidewalk
- H Bricks on concrete base

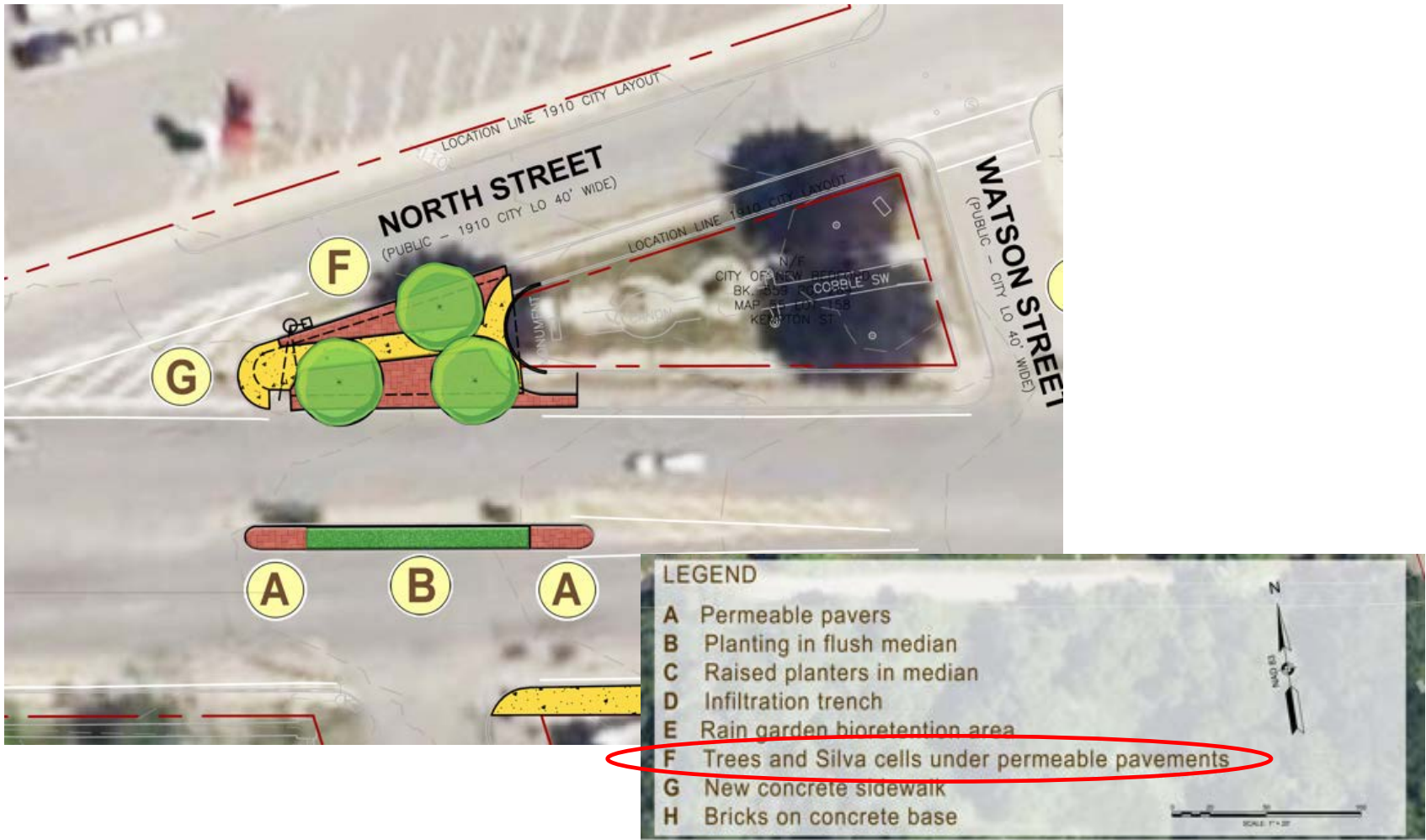
Silva Cells Example



Silva Cells at Kempton and Mill



Silva Cells at Kempton and North Street



Rain Garden - Example



Rain Garden - Example



Rain Garden at Veterans Center

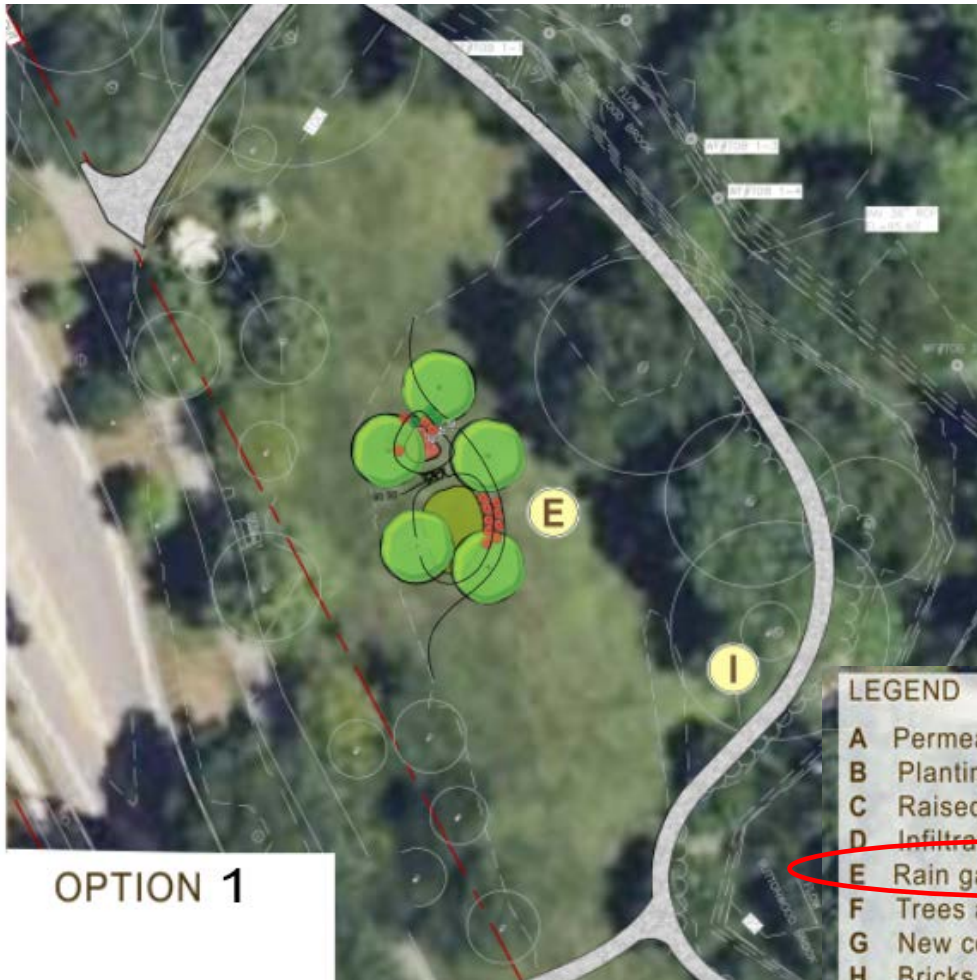


LEGEND

- A Permeable pavers
- B Planting in flush median
- C Raised planters in median
- D Infiltration trench
- E Rain garden bioretention area**
- F Trees and Silva cells under permeable pavements
- G New concrete sidewalk
- H Bricks on concrete base

SCALE 1" = 10'

Rain Garden at Buttonwood Park Option 1



LEGEND

- A Permeable pavers
- B Planting in flush median
- C Raised planters in median
- D Infiltration trench
- E Rain garden bioretention area**
- F Trees and Silva cells under permeable pavements
- G New concrete sidewalk
- H Bricks on concrete base

SCALE 1" = 20'

Rain Garden at Buttonwood Park Option 2



LEGEND	
A	Permeable pavers
B	Planting in flush median
C	Raised planters in median
D	Infiltration trench
E	Rain garden bioretention area
F	Trees and Silva cells under permeable pavements
G	New concrete sidewalk
H	Bricks on concrete base

Schedule

- Public Outreach Meeting on 4/5/2023
- Notice of Intent – File on 5/4/2023
- 1st Conservation Commission hearing on 5/16/2023
- Final Construction Documents by 6/30/2023

Questions?

