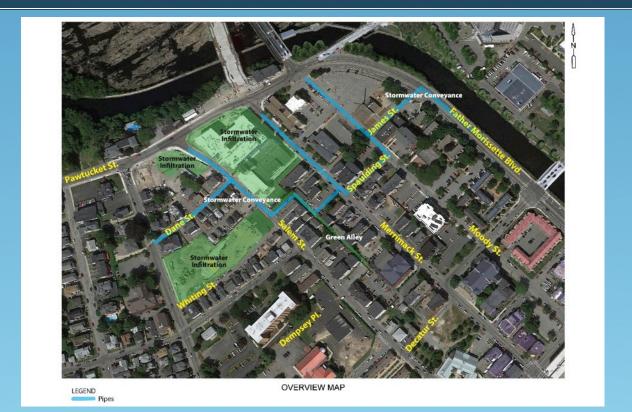




DECATUR WAY: GREEN ALLEY WATER, ART, & YOU





NEWEA
CSO/Wet Weather
Issues Specialty
Conference

UMASS Lowell Inn & Conference Center Lowell, MA
October 27, 2015

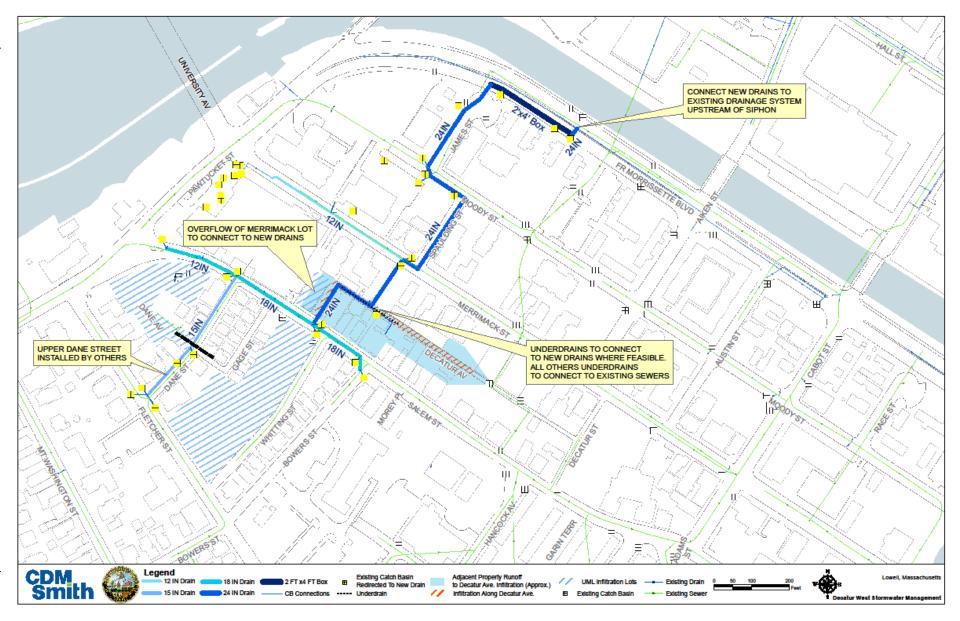
Michael Dodson, RLA

OVERVIEW

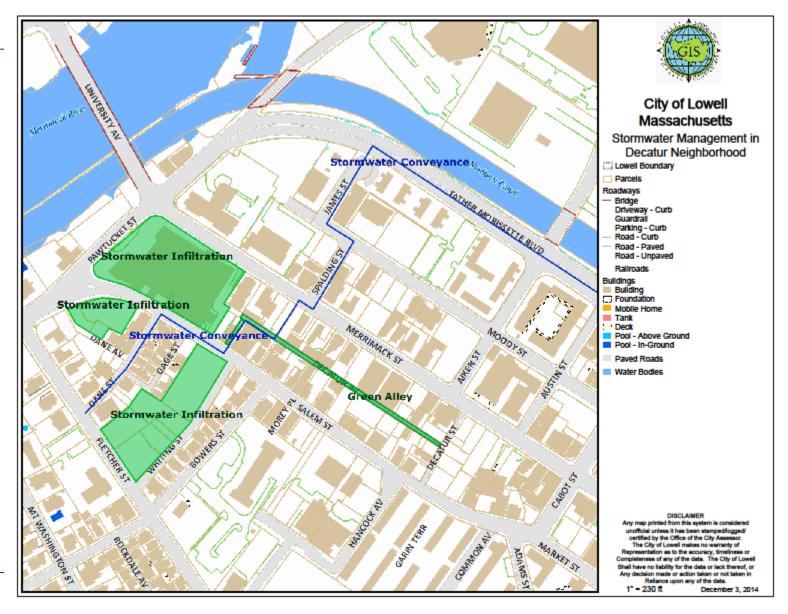
- Who?
- What?
- When?
- Where?
- Why?



Stormwater Conveyance in Decatur Neighborhood



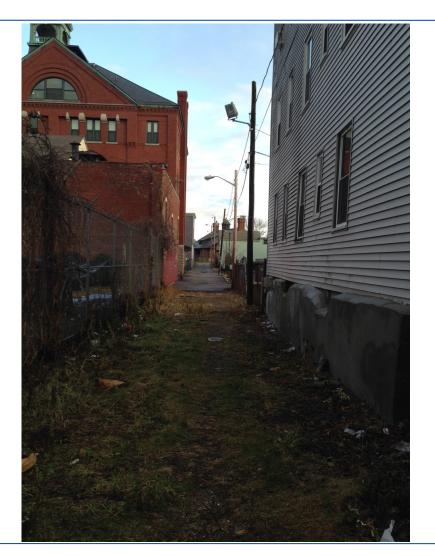
Stormwater Conveyance in Decatur Neighborhood





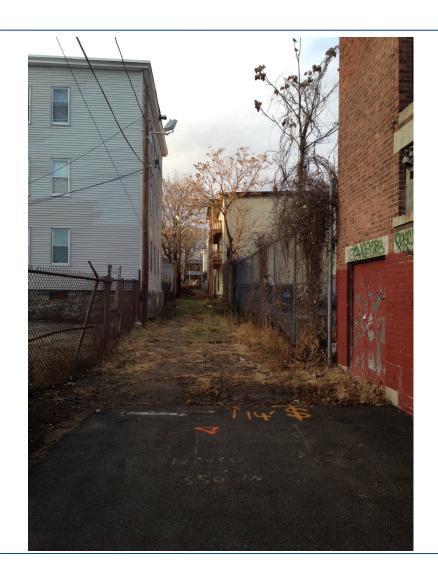
Existing Photos

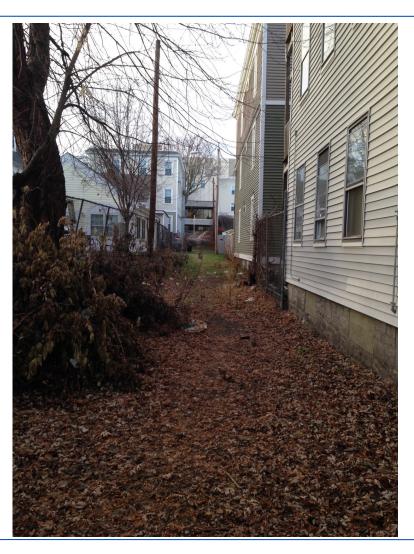






Existing Photos







Existing Photos





Porous Pavements

- Porous Asphalt
- Precast Interlocking Permeable Pavers
- Cast-in-Place Pervious Concrete
- Precast Pervious Concrete



Precast Pervious Concrete





Precast Pervious Concrete: Pros and Cons

PROS

- Light color = high albedo
- Formed in a controlled environment
- Cleaning/replacing panels easier than cast-in-place pervious concrete
- Different standard size panels are available

CONS

Potentially more expensive

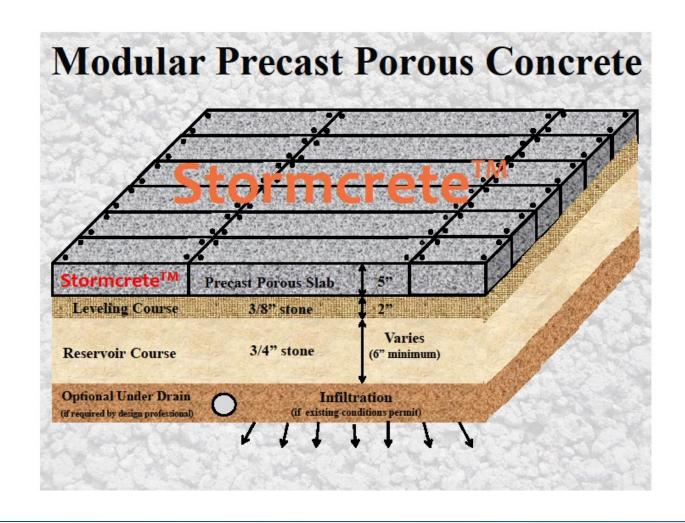


Precast Pervious Concrete





Precast Pervious Concrete: Cross Section Example



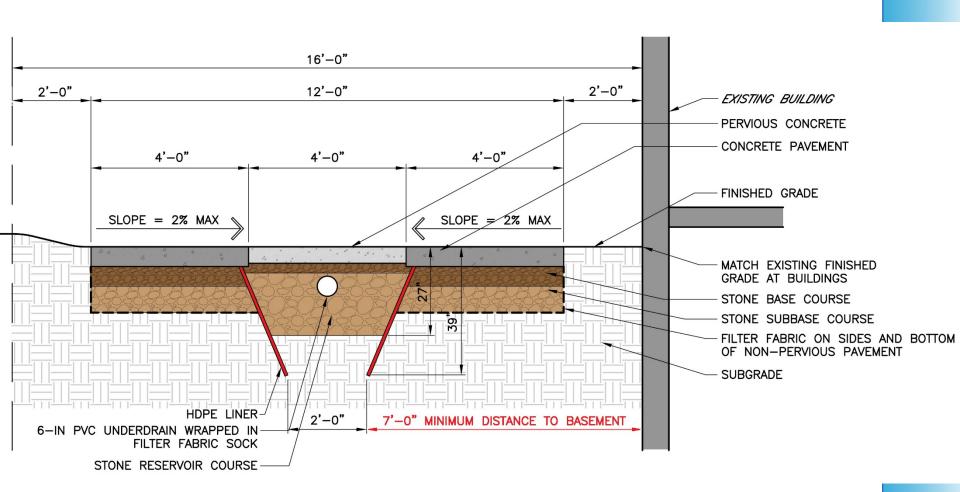


Maintenance

- Inspect at least once per year to examine surface infiltration rates.
- Vacuum as much as 2 to 4 times per year to remove solids and debris and keep voids open.
- Power wash can be used to dislodge trapped particles.
- Light salting during winter months is acceptable.



Typical Section







Decatur Green Alley - Existing Condition Lowell, Massachusetts

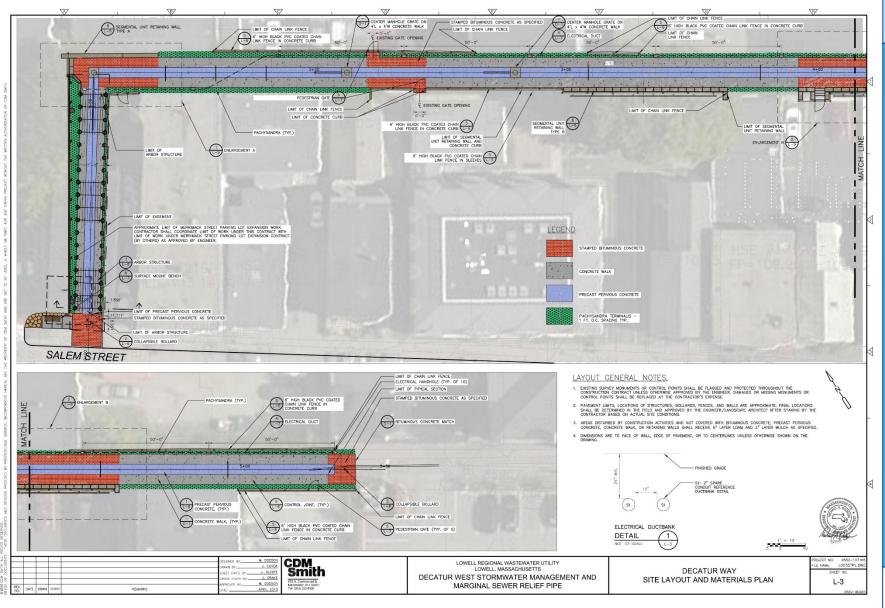
February 2015





CDM Smith

Site Plan





Stamped Bituminous Concrete







Stamped Bituminous Concrete



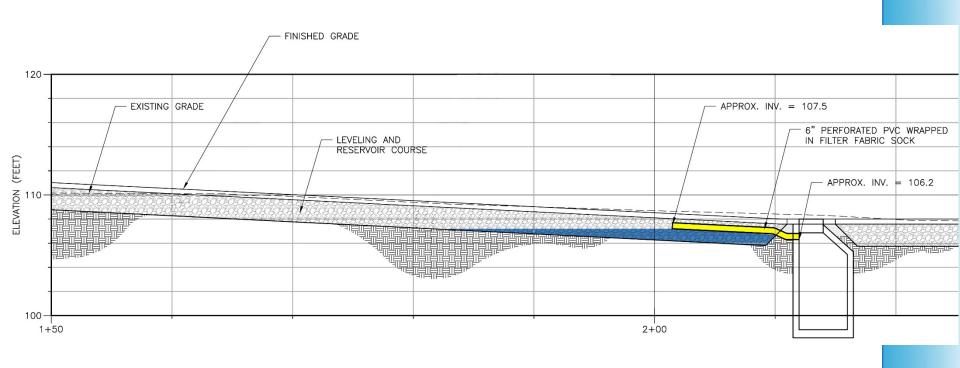


Stamped Bituminous Concrete



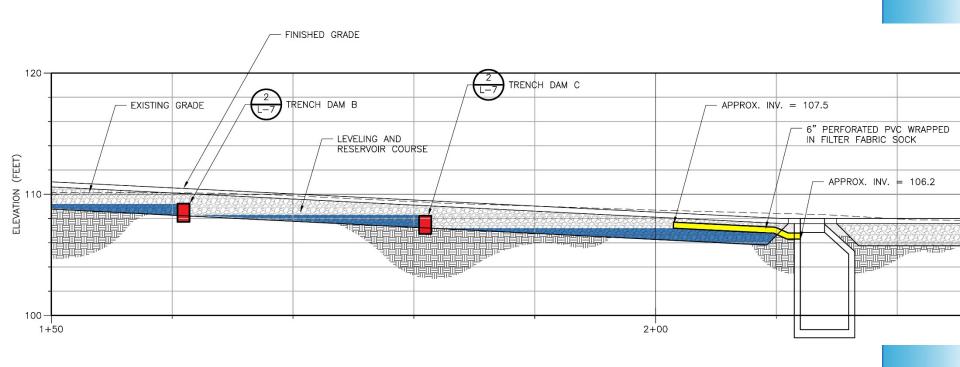


Reservoir without Impervious Dams



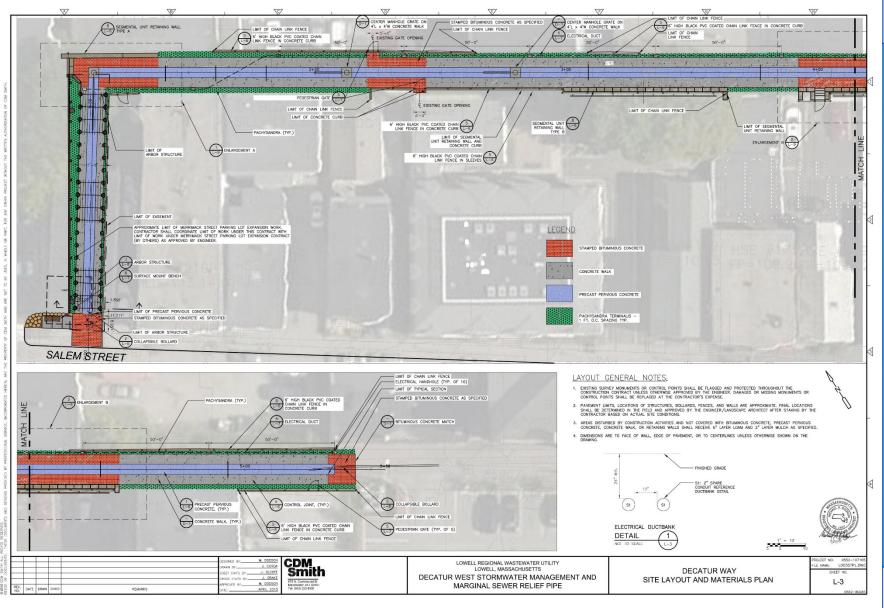


Reservoir with Impervious Dams





Site Plan





Aiken Street Bridge





Arbor Location: Before Photo



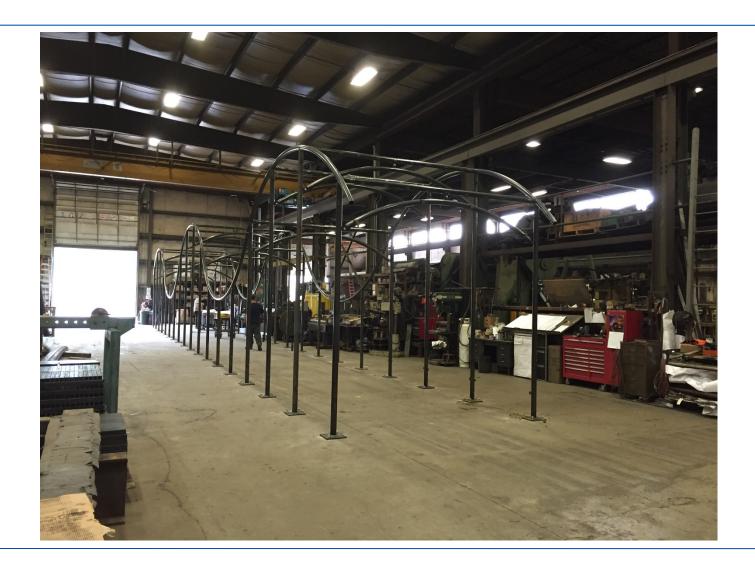


Arbor Location: Photosimulation





Arbor: Fabrication





Under Construction



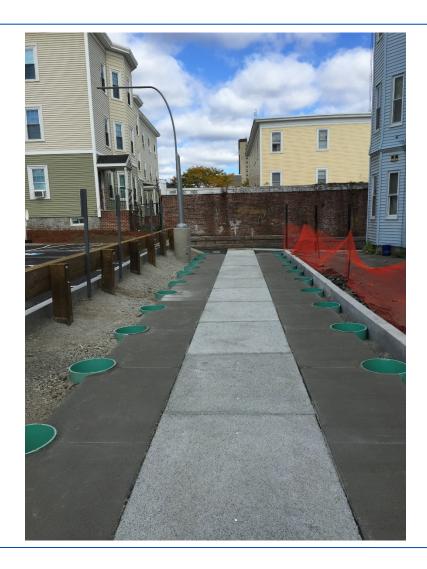


Under Construction





Under Construction











DECATUR WAY: GREEN ALLEY

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Questions?

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