



Collaborating for Public Facility Stormwater Success

NEWEA Spring Meeting 2018

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Building better communities with you

Introduction



schools
public safety
schools
citizens
design
funding permitting
construction public safety
operation maintenance
municipalities public safety
state agencies
stormwater
collaboration rainwater
partners public expectations public safety team
Innovation stormwater solutions schools local
stormwater partners
process navigate planning

Project Teams

Public Team

Town Admin
/ Mayor



Building
Committee



Owner's
Project
Manager



DPW/
Facilities



End Users
(Schools,
Public
Safety
etc.)



Design Team

Architect



Environmental



Engineers



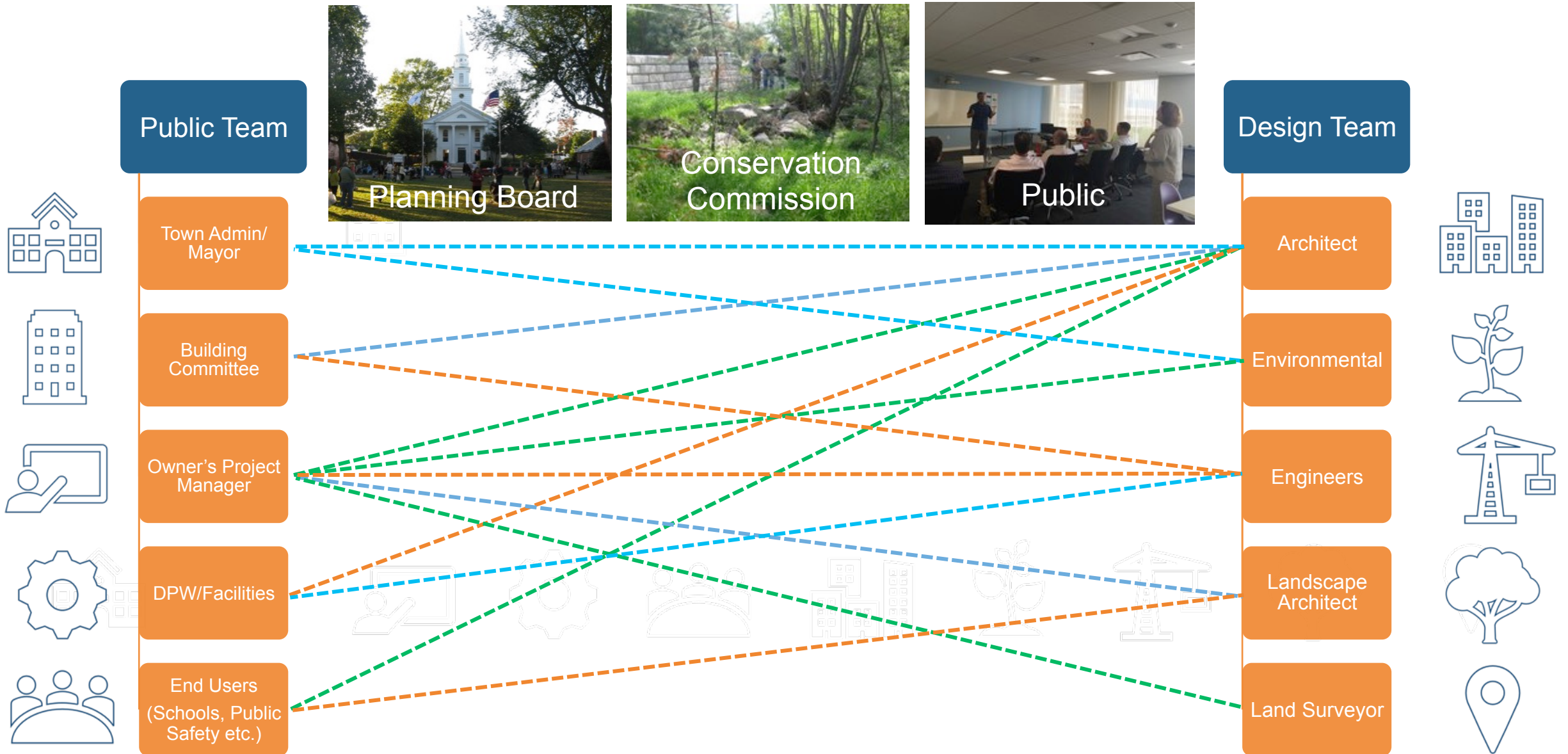
Landscape
Architects



Land
Surveyor



Project Teams



Navigating the Process

Public Team



*Site
Selection*

*Site and
Building
Layout*

*Stormwater
Planning*

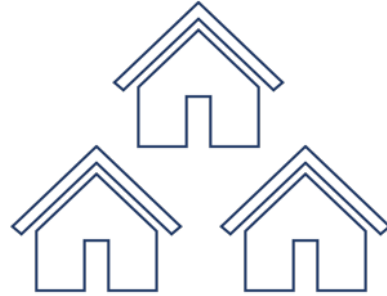
*Outreach
Approach*

*Permit
Approvals*



Design Team

Navigating the Process



People

- Core team
- Decision makers
- Stakeholders
 - Public
 - Approving Authorities

Place

- Constraints
- Neighbors

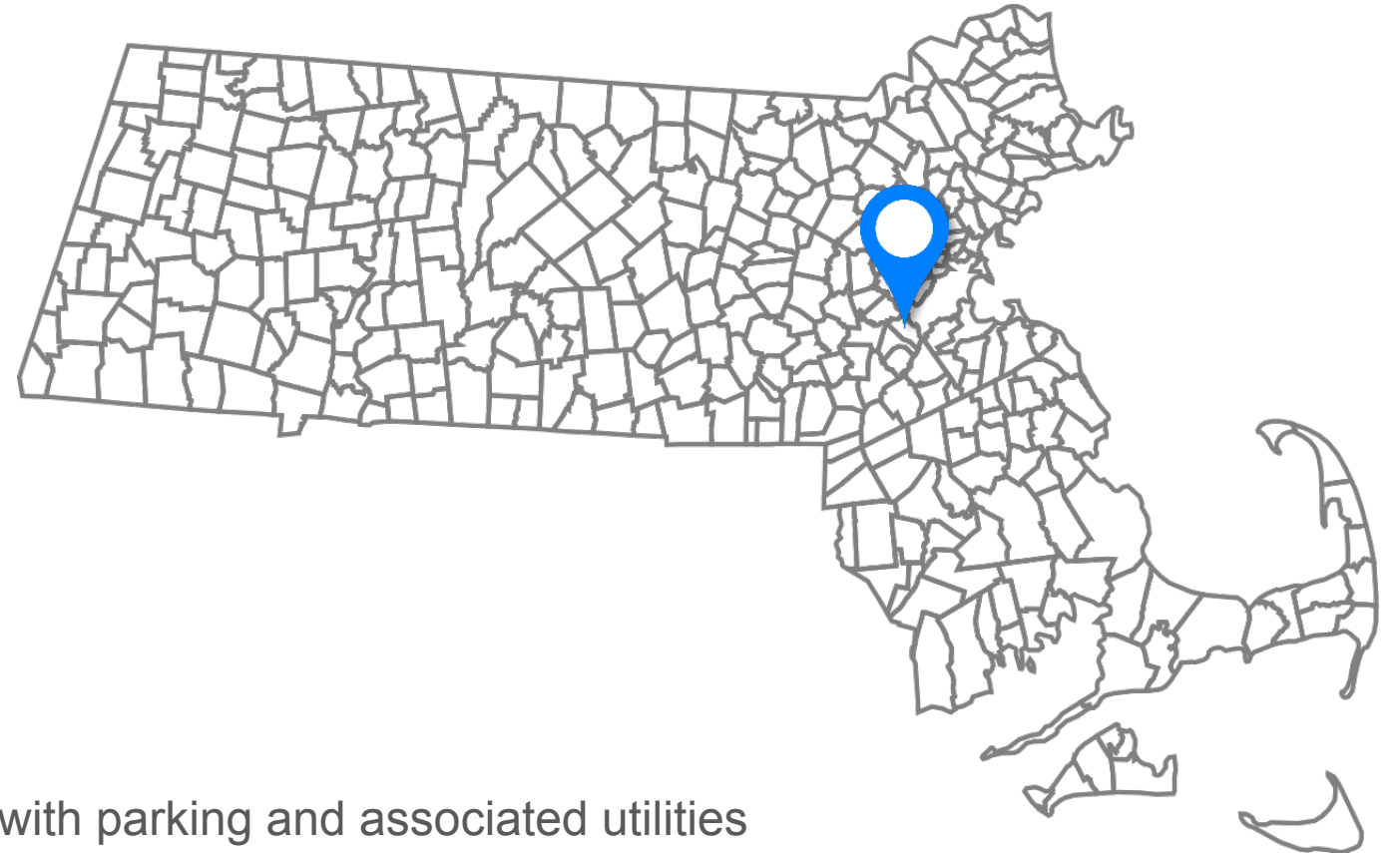
Process

- Meetings
- Approvals

Dedham Early Childhood Center

Architect:
KBA Architecture

Landscape Architect:
Warner Larson



Location:
Dedham, MA

Owner:
Town of Dedham

Project:
New public school with parking and associated utilities



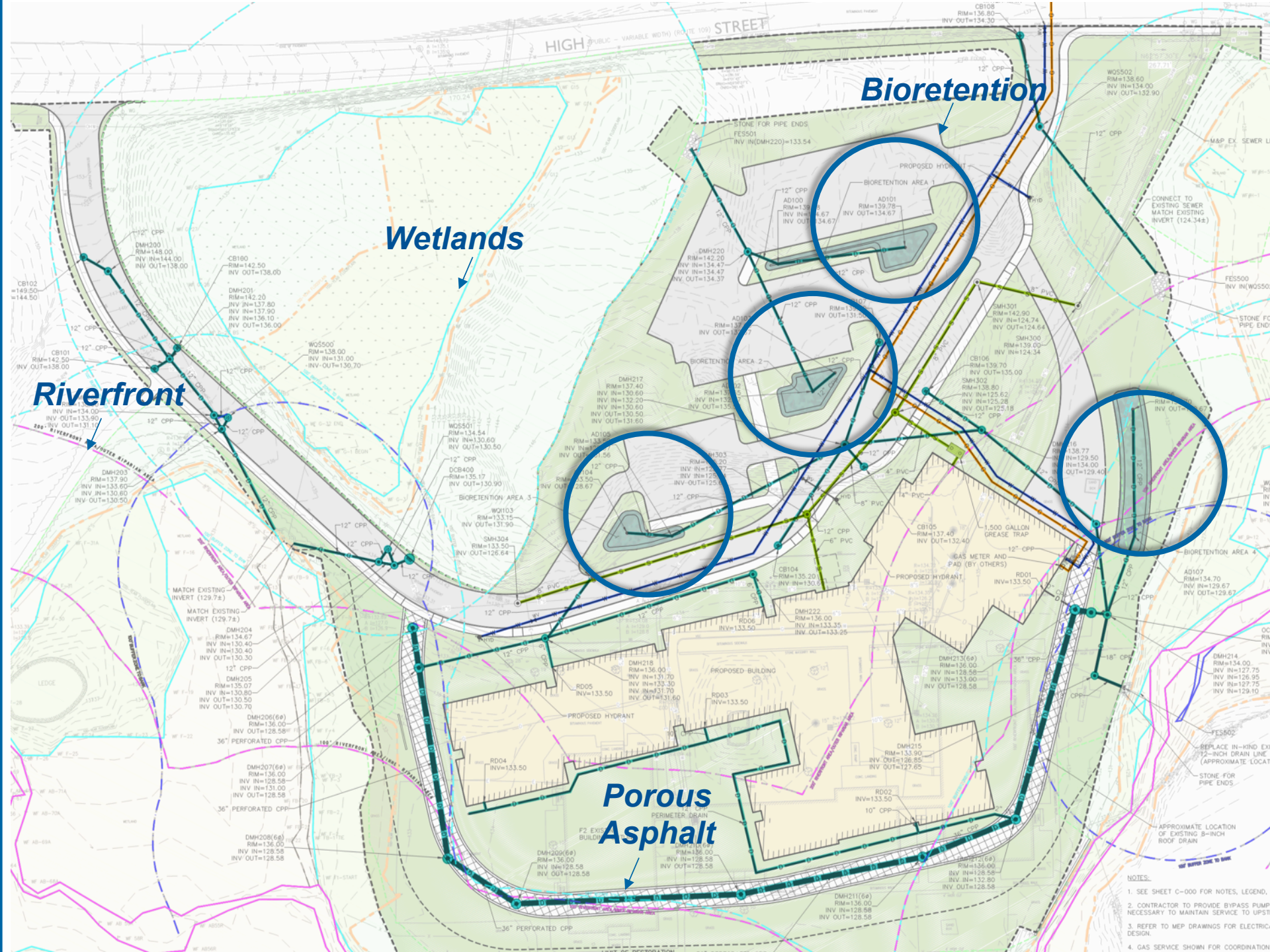
Dedham Early Childhood Center

PEOPLE

- Public Team: Town Administrator, Owners Project Manager, Building Inspector and End Users (School Department)
- Design Team: Architect, Landscape Architect and Civil, Structural, Mechanical/Electrical/Plumbing and Geotechnical Engineers
- Public involvement: Fire Department, Conservation Commission and Planning Board



Dedham Early Childhood Center

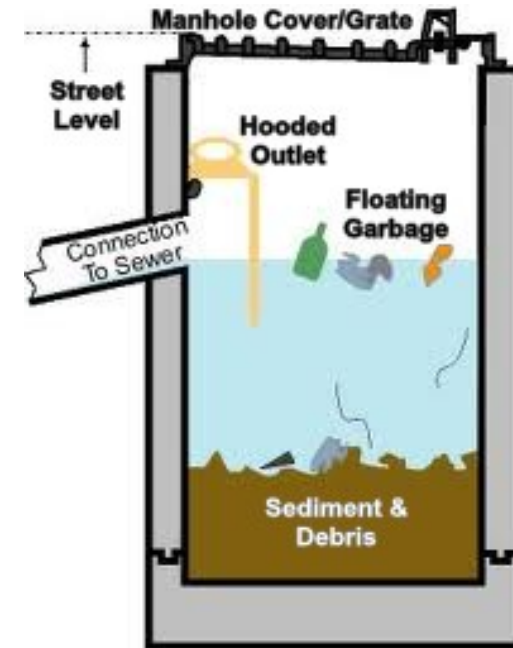
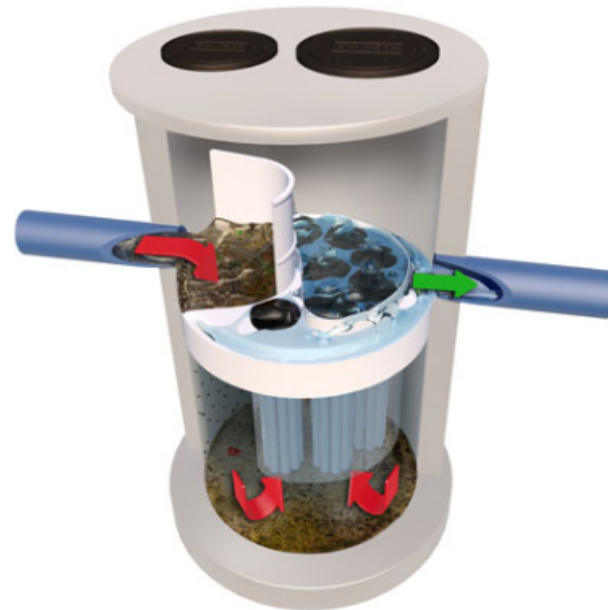


- NOTES:
1. SEE SHEET C-000 FOR NOTES, LEGEND,
 2. CONTRACTOR TO PROVIDE BYPASS PUMP NECESSARY TO MAINTAIN SERVICE TO UPSTREAM
 3. REFER TO MEP DRAWINGS FOR ELECTRIC DESIGN.
 4. GAS SERVICE SHOWN FOR COORDINATION

Dedham Early Childhood Center

FACILITIES USED:

- *Deep Sump and Hooded Catch Basins*
- *Water Quality Units*
- *Porous Asphalt*
- *Bioretention*



Source: www.sanitrol.net

Dedham Early Childhood Center

COMMUNITY ENGAGEMENT & PERMITTING APPROVALS:

- *Many Community Meetings*
- *Close Coordination with Fire Department*
- *Meetings with Conservation Commission and Planning*



State Fire Academy

Architect:
Dore & Whittier Architects

Landscape Architect:
Radner Design Associates



Location:
Springfield, MA

Owner:
State

Project:
New fire training academy with parking and associated utilities

Source: mass.gov



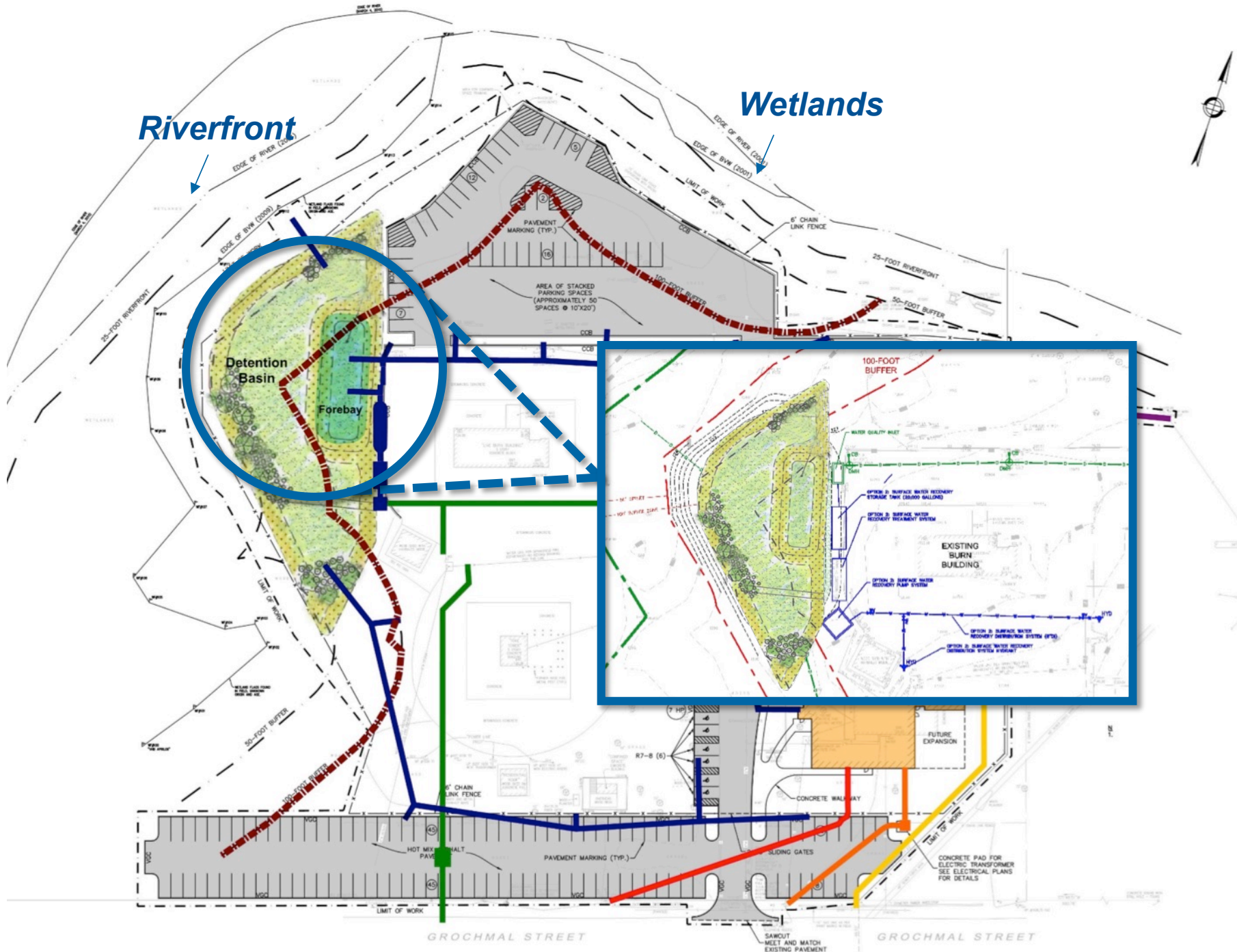
State Fire Academy

PEOPLE

- Public Team: State (DCAMM)
- Design Team: Architect, Landscape Architect and Civil, Structural, Mechanical/Electrical/Plumbing and Geotechnical Engineers
- Public involvement: Department of Planning and Economic Development, Department of Public Works, Springfield Water and Sewer Commission, Springfield Conservation Commission



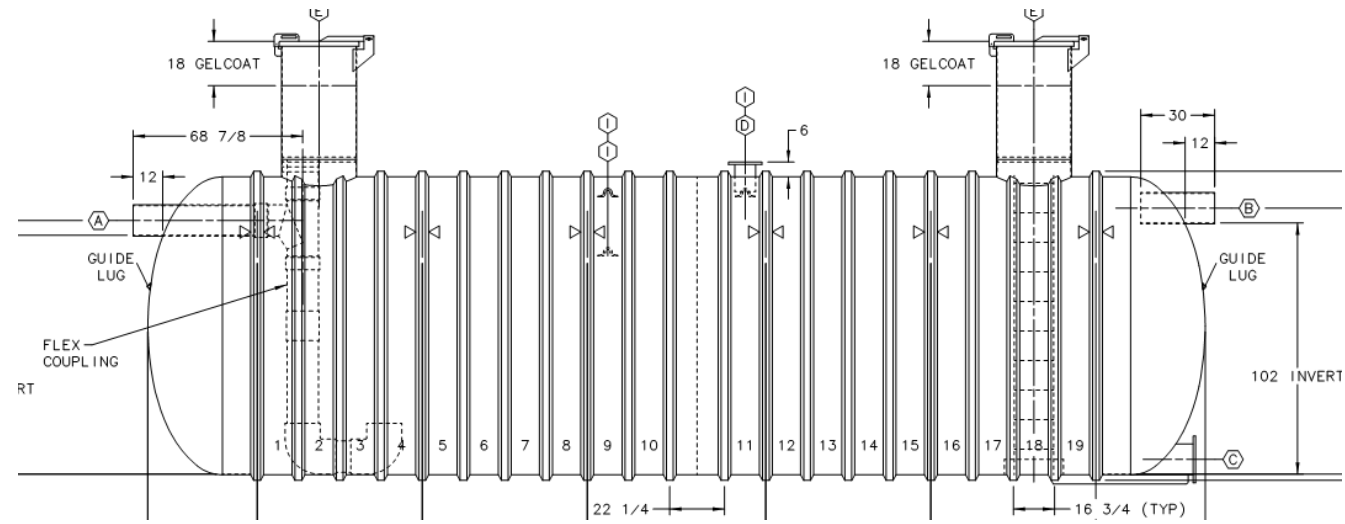
State Fire Academy



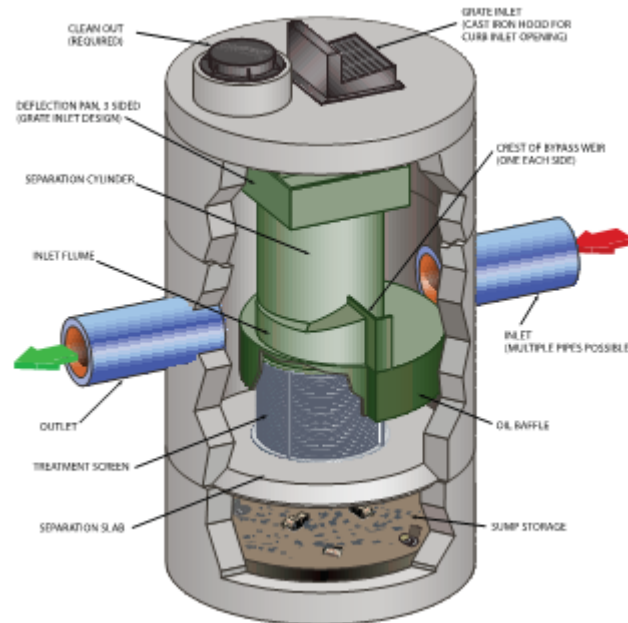
State Fire Academy

FACILITIES USED:

- *Deep Sump and Hooded Catch Basins*
- *Water Quality Inlet*
- *Surface Water Recovery System*



Source: ZCL Composites, Inc.



Source: Contech CDS Unit



Source: Mass.gov

State Fire Academy

COMMUNITY ENGAGEMENT & PERMITTING APPROVALS:

- *Conservation Commission*
- *Springfield Water and Sewer Commission*



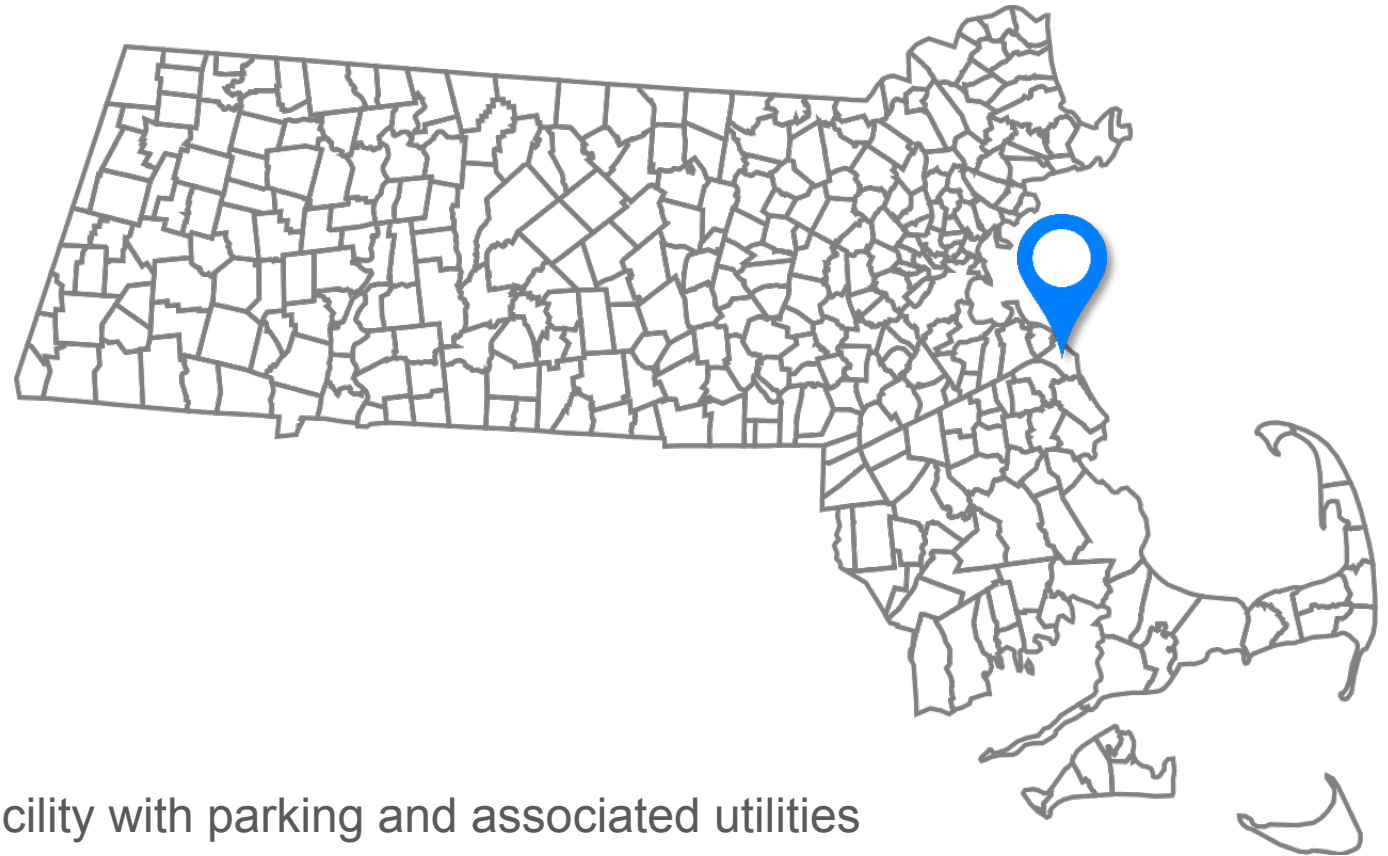
Scituate Public Safety

Architect:
Dore & Whittier Architects

Landscape Architect:
Radner Design Associates



Courtesy of Dore & Whittier Architects



Location:
Scituate, MA

Owner:
Town of Scituate

Project:
New public safety facility with parking and associated utilities



Scituate Public Safety

PEOPLE

- Public Team: Town Administrator, Owners Project Manager, Building Inspector and End Users (Public Safety Team)
- Design Team: Architect, Landscape Architect and Civil, Structural, Mechanical/Electrical/Plumbing and Geotechnical Engineers
- Public involvement: Conservation Commission, Board of Health, and Planning Board



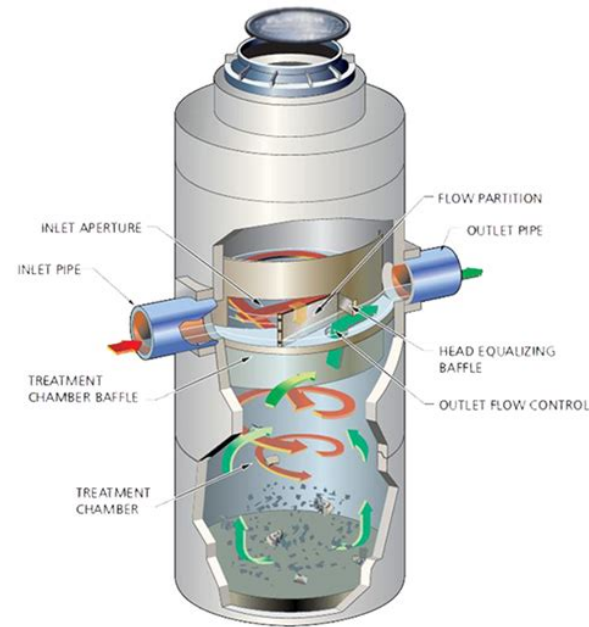
Scituate Public Safety



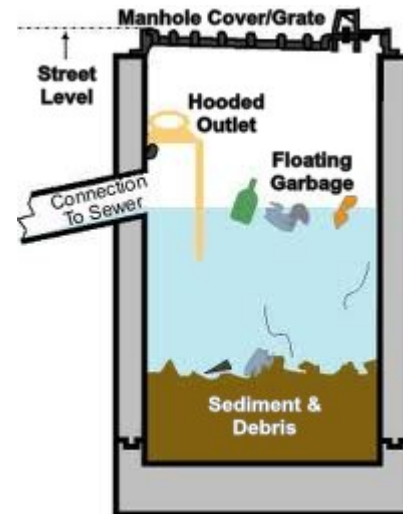
Scituate Public Safety

FACILITIES USED:

- *Deep Sump and Hooded Catch Basins*
- *Water Quality Units*
- *Gravel Wetlands*
- *Rain Garden*



Source: stormwater360.co.nz



Source: www.sanitrol.net



Scituate Public Safety

COMMUNITY ENGAGEMENT & PERMITTING APPROVALS:

- *Conservation Commission*
- *Planning Board*



Lessons Learned



- *Put yourself in their shoes – Understanding resources and long-term commitment for owners*



- *Interdisciplinary teamwork on the design side*



- *Creating solutions that work for everyone*



- *Empowering change – Sometimes new can be good*



Questions?



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