



Town of Duxbury DPW Operations Center



Feasibility Study - Town Meeting Update Presentation

March 10, 2018

Town of Duxbury
DPW Operations Center

Public Works Responsibilities

Town of Duxbury DPW Operations Center

Department of Public Works (DPW) Operating Divisions

- Highway
- Lands & Natural Resources
- Water & Sewer
- Vehicle Maintenance
- Administration
- Cemetery & Crematory
- Transfer Station
- Animal Control
- Central Building



Town of Duxbury

DPW Operations Center

The DPW touches the lives of the residents everyday by maintaining the infrastructure that the community relies on including...

• Highway

- 110 miles of road
- Sidewalks
- Stormwater (drainage) systems
- Town landings
- Catchbasin cleaning & repair
- Street sweeping
- Roadway line painting
- Street signs

• Lands & Natural Resources

- Urban forestry management & roadside mowing along 110 miles of road
- Athletic field maintenance (including 13 irrigation systems)
- Open space / conservation land
- Parks
- Trash removal at all open space
- Beach handicap access ramp
- Municipal building landscape maintenance (10 buildings)
- Maintenance of Town Wide fuel depot

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DPW Operations Center

The DPW touches the lives of the residents everyday by maintaining the infrastructure that the community relies on including...

• Water & Sewer

- 130 miles of water mains
- 1,100 hydrants
- 5,700 service connections
- 12 water sources providing average 2 million gallons per day
- Two water storage tanks (1 M gallon and 2 M gallon)
- 50 homes on three (3) shared septic systems
- Operation and maintenance of collection and treatment for school campus
- 130 homes on Gurnet Road sewer system

• Vehicle Maintenance

- Maintain Town owned vehicles and equipment for:
 - All DPW Divisions
 - Police
 - Harbor Master
 - Fire Department
 - Conservation
 - Facilities
 - Animal Control
 - Inspectional Services

Town of Duxbury DPW Operations Center

The DPW touches the lives of the residents everyday by maintaining the infrastructure that the community relies on including...

On call 24 hours a day to handle incidents & emergencies including:

- Snow and ice removal operations
- Hurricane / windstorm cleanup
- Flooding
- Removal of road hazards
- Oil spills / accidents
- Emergency road repairs
- Emergency response / consequence management
- The support of other emergency departments



8:09 AM - 2 Mar 2018 from Duxbury, MA



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Public Works agencies are considered First Responder and the facilities must support this important role:



Public Works
THE FIRST RESPONDERS WHO ARE THERE
UNTIL THE EMERGENCY IS OVER

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Why Does the Town Need a New Facility?

Town of Duxbury

DPW Operations Center

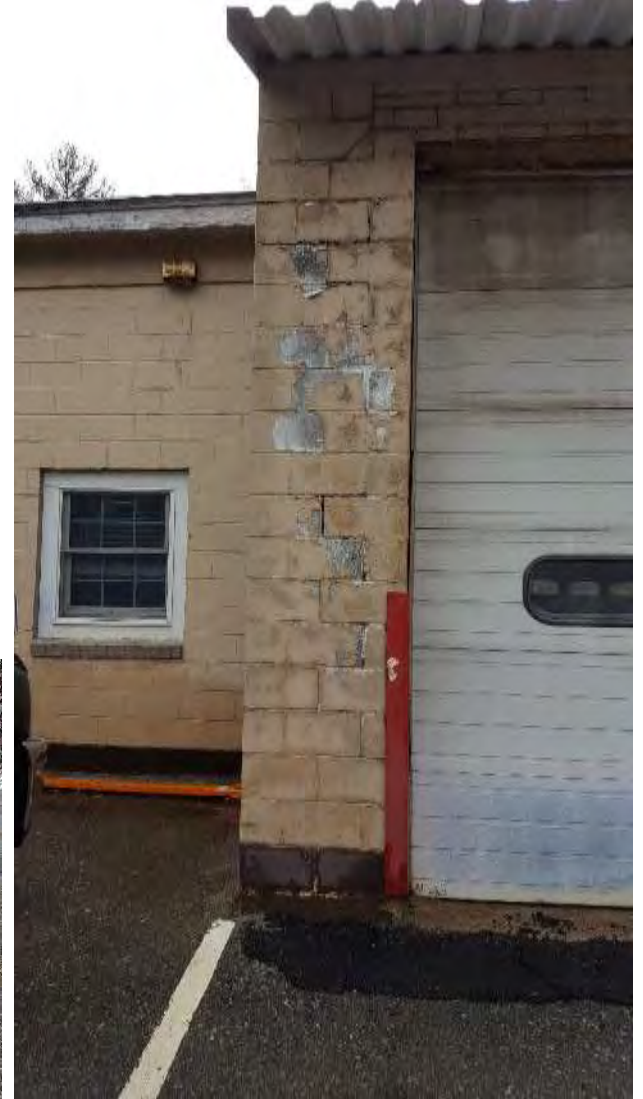
Why does the Town need a new Public Works facility?

- The existing building was constructed in 1970 and is more than 48 years old
- Responsibilities have increased significantly over the decades along with vehicles, equipment, and staff. However, The facilities have had no significant improvements or modernizations over the years
- The facilities no longer serve the needs of the Town and do not meet current building, plumbing, and mechanical codes.
- Efficiency of operations and employee safety are negatively impacted by the substandard conditions



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Why does the Town need a new Public Works facility?



Buildings have exceeded their useful life

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Employee Support Spaces



Inadequate basic employee support spaces – Lockers are located in the garage

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Employee Support Spaces



Sample Photo of a proper Locker/Shower/Toilet Facility

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Employee Support Spaces



Inadequate basic employee support spaces – Muster / Training / Storm Event Room

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Employee Support Spaces



Sample Photo of a proper Muster/Training/Storm Event Room

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Vehicle Maintenance Area

- Does not meet acceptable industry and safety standards
- Poor ventilation - antiquated mechanical system
- Poor lighting
- Non code compliant shop clearances



Maintenance bays and support space are undersized to safely and efficiently maintain vehicles and equipment

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Vehicle Maintenance Area

- Does not meet acceptable industry and safety standards
- Poor ventilation - antiquated mechanical system
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- Non code compliant shop clearances



Maintenance bays and support space are undersized to safely and efficiently maintain vehicles and equipment

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Vehicle Maintenance Area



Sample Photo of a Safe & Efficient Vehicle Maintenance Area

Weston & Sampson

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Why does the Town need a new Public Works facility?

- Vehicle and equipment types and sizes have changed significantly since the facility was constructed



Mid-1900's era DPW vehicles



Today's larger multipurpose DPW vehicles

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Existing Vehicle / Equipment Storage



Vehicle and equipment storage area is too small to safely and efficiently store the DPW equipment

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Existing Vehicle / Equipment Storage



Vehicle and equipment storage area is too small to safely and efficiently store the DPW equipment

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Unprotected vehicle/equipment storage due to undersized facility



Inadequate storage results in a portion of the multi-million dollar fleet and equipment being stored outdoors

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Unprotected vehicle/equipment storage due to undersized facility



Sample Photo of a Safe & Efficient Vehicle Storage Area

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Summary of Deficiencies

- The existing facilities were built in the 1970's with no significant improvements
- Existing buildings do not comply with today's Building Code
 - No sprinkler system
 - Inadequate egress
 - Not ADA accessible
 - No fire separation
- Toilet facilities do not meet current Plumbing Code
 - Inadequate number of fixtures
 - Inadequate facilities for male/female employees
- Building does not meet current Mechanical Code
 - Inadequate ventilation / electrical systems
 - Non-code compliant maintenance air exchanges
 - Inadequate carbon monoxide detection system
- Operational inefficiencies due to space constraints
 - Inadequate storage areas
 - Inadequate employee facilities
 - Inadequate material storage areas
 - Undersized maintenance area
 - Inadequate file storage
 - Safety concerns for staff



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Potential risks associated with substandard facilities

Fire destroys town's public works building
Officials say fire was major loss for town
(WMUR Hopkinton NH 2012)



Lynnfield DPW Storage Garage Fire
(Lynnfield MA 2013)



Blaze destroys Henniker snow-removal equipment, leaving 'serious problem'
(Henniker NH, Concord Monitor 2015)



Fire destroys more than \$1 million worth of equip - Tolland DPW garage
(Tolland, MA, Masslive.com 2016)



Weston & Sampson

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Potential risks associated with substandard facilities

December 10, 2017

**Highway Facility Fire Leaves Mass. Town
Without Snow Removal Trucks**

(Sandisfield, MA, WBZ CBS Boston)



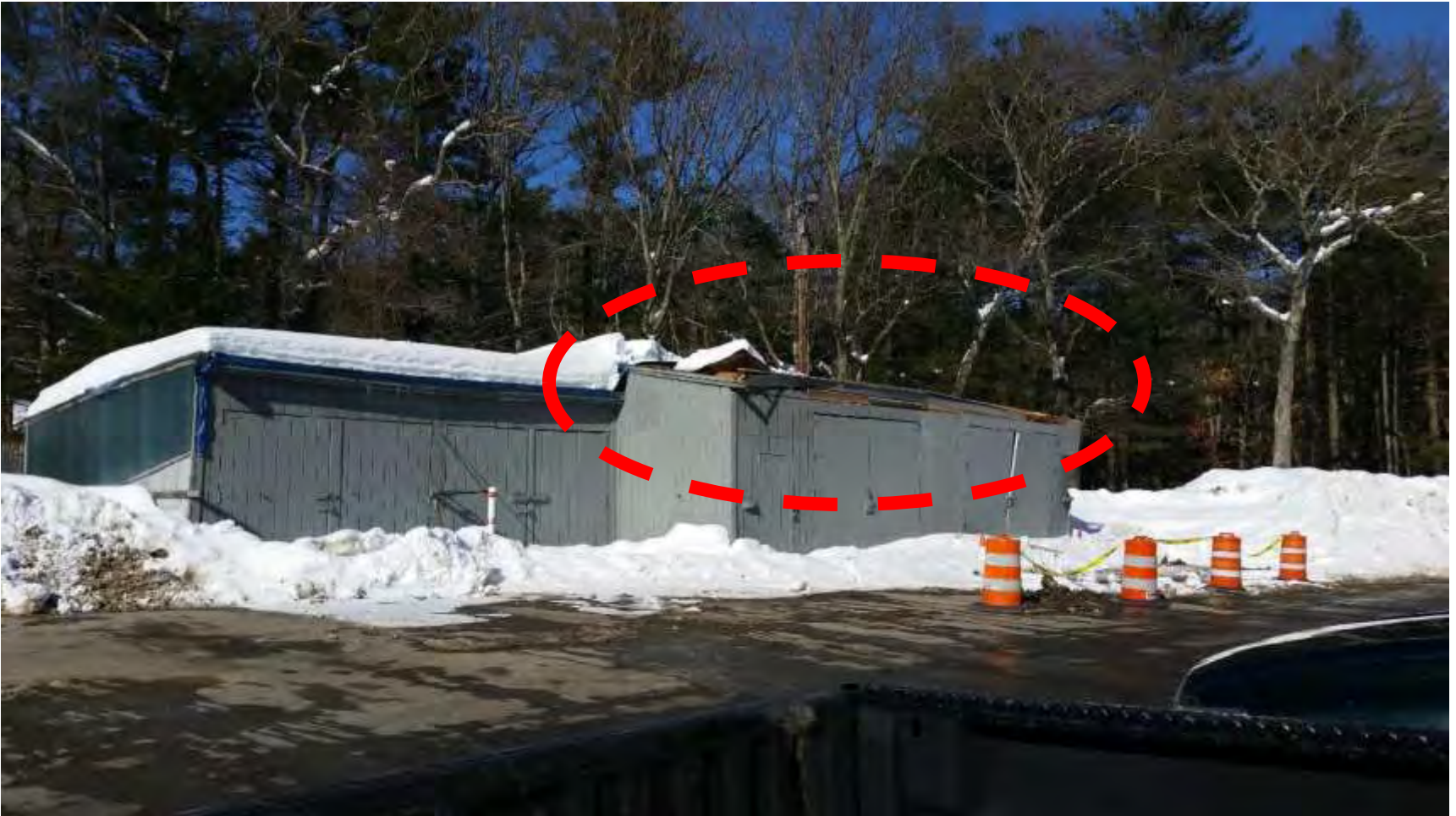
**Town's Fleet of Plows Crushed in
Collapse**

(Plymouth CT, NBCConnecticut.com 2011)



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Potential risks associated with substandard facilities



Town of Duxbury DPW Storage Building Roof Collapse (2012)

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What will the Feasibility Study include?

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Feasibility Study Process

- Conducted staff interviews to verify program and code required upgrades
 - DPW Administration
 - Highway
 - Lands & Natural Resources
 - Water
 - Sewer
 - Cemetery
 - Vehicle Maintenance

- Develop concepts at the existing DPW site (878 Tremont Street – Rear)

- Develop overall project budget

- Request funds for the next phase of the DPW Operations Center project in March 2019

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Thank You