



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



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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...**

- 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?

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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

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- Poor ventilation - antiquated mechanical system
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Vehicle Maintenance Area



Sample Photo of a Safe & Efficient Vehicle Maintenance Area

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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



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

Town of Duxbury DPW Operations Center

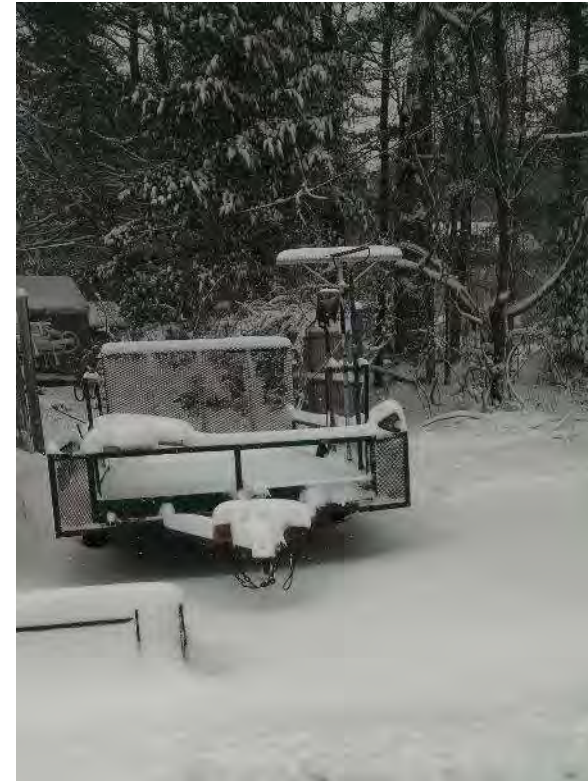
Unprotected vehicle/equipment storage due to undersized facility



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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)



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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)



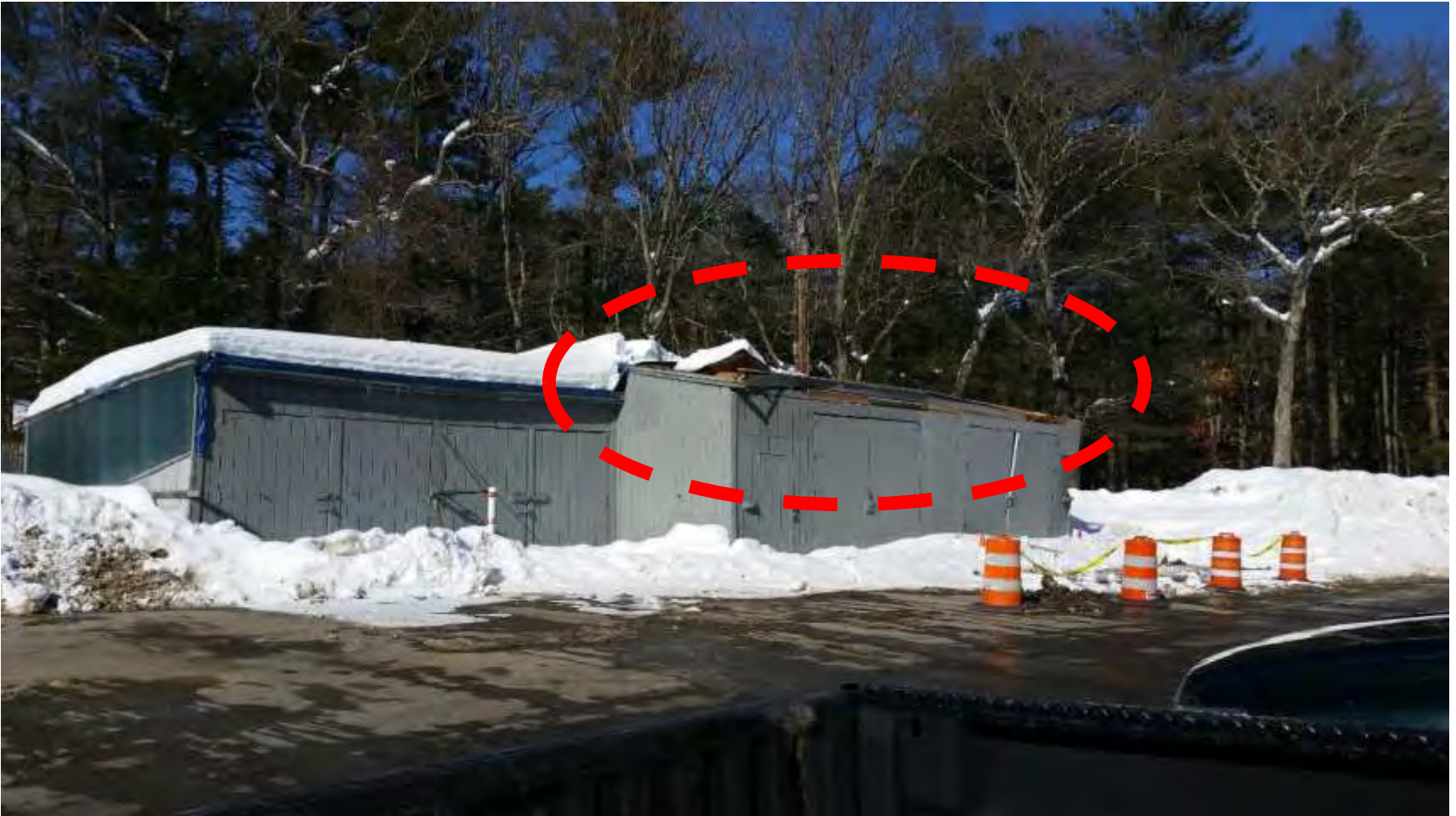
*Town's Fleet of Plows Crushed in
Collapse*

(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