

TOWN REPORT
DEPARTMENT OF PUBLIC WORKS
FISCAL YEAR 2006

To the honorable Board of Selectmen and Citizens of the Town of Lynnfield, I hereby submit the following annual report of the Department of Public Works for the period covering July 1, 2005 to June 30, 2006.

The Department roster consisted of the following full-time personnel:

DENNIS R. ROY, Director
Thom Forbes, Assistant Director of Facilities
David Carbonneau/ Charlie Richter, Town Engineer
Michelle Sweeney, Department Administrative Secretary
Darlene Taylor, Senior Clerk

Highway

Mark Rogers, General Working Foreman
John Canavan, Highway Foreman
Richard Peabody, Crew Super
Mark Bushnell
Rick DeGrande
Gerald Dorsi
Kevin Raiche
Frank Savchuk

Parks/ Cemetery/ Trees:

Brett Potter, Cemetery/Parks/Tree Foreman
Phillip MacHugh, Crew Super
Eddie Downs, Tree Climber
Louis Griffin
Joseph Morgan
John Leonard
Todd Boudreau

Municipal Buildings:

Keith Hammerbeck, Head Custodian
Roger Harbour Sr.
Paul Harrington
Dan Harvey, Part-time Library

Bus Drivers:

Jim Nease
Bill Diamond
Joanne Lawson
Mike Geras
Ann DeFosses
Paul Marshall
Phil Buttiglieri
Christy Peterson
Donna Turcotte

Custodians:

John Desiderio, High School-Head Custodian
Glenn Anderson, High School
Armando Agramonte, High School
Paul Murphy, High School
Arthur Dupuis, Middle School-Head Custodian (Acting)
Michael White, Middle School
David LeBlanc, Middle School
Martin Ayoal, Middle School -temporary
Anthony Fraton, Summer Street-Head Custodian
Marilyn Bonneau, Huckleberry Hill-Head Custodian
James Reilly, Huckleberry Hill
David King, Maintenance Specialist
Robert Burke, Floating Custodian

INTRODUCTION

The Department of Public Works is a service organization responsible for providing essential public works

infrastructure support services for the citizens of Lynnfield. It is the second largest town operating budget with the school department being the largest.

Services provided by this department includes engineering design, construction, maintenance and repair of streets, sidewalks, storm drains; maintenance and repair of all DPW vehicles and equipment including school buses and the Council of Aging vehicle; maintenance of parks, playgrounds, cemeteries, athletic fields, public buildings, schools; manage refuse collection, disposal and recycling; snow plowing and ice control; administration of construction contracts; review of subdivision projects; manage all public shade trees for pruning, planting and/or removal; school bus transportation; custodial services to all municipal/ school buildings; maintenance of town owned street lights and traffic signals.

The Department divides its multiple responsibilities for the management, maintenance and operations of the Town's infrastructure among five basic Divisions: Administration, Municipal building maintenance, School building maintenance, Rubbish/ Recycling collection and disposal, and Highway/ Cemeteries/ Parks & Trees.

Lynnfield Public Works employs 49 full- time permanent staff and has an annual operating budget in the order of \$4.2 million. In addition, DPW capital improvements/ purchases appropriation totaled \$102,500 this past fiscal year. This did not include additional capital appropriations from other sources such as the Capital Facilities Maintenance Committee and School Building Committee, Senior Center Improvements Committee that was managed by the DPW. These capital improvements to our schools and municipal buildings added an additional \$528,000 +.

ADMINISTRATION TEAM

Located in Town Hall, the administration team is critical to the daily functions of the Department of Public Works. Michelle Sweeney is responsible for the administration activities of the Director of Public Works Office and holds the job title of Administrative Secretary to the Director. Also working out of the Town Hall DPW office is Senior Clerk, Darlene Taylor, who provides administrative services to all Divisions. Both Michelle and Darlene deal directly with all public queries and complaints regarding all operations of the department such as street light out problems, tree problems, trash pickup schedules, snow and ice problems, drainage issues etc. while maintaining employee payroll and department budget/ billing records. All invoice payments, requisitions and purchase orders are also facilitated by the administrative staff. Over 245 street opening and access permits along with 825 recycling center stickers were also administered by Michelle and Darlene.

Also part of the core administration team centered in the DPW office is Thom Forbes who serves as Assistant Director of Facilities. Thom is responsible for managing the day to day operations of school busing, custodial staff and operations management of all municipal and school buildings. He also plays a key roll in the repairs and capital improvements to all our town buildings.

Recent to the DPW administration team is Town Engineer, Charlie Richter, P.E., who came to Lynnfield from the Town of Wakefield where he served as Assistant Town Engineer. The creation of this new position back in 2004 as part of the reorganization of the DPW has proven to be a positive improvement to the operations of the Department. Under the direction of the Director of Public Works the Town Engineer provides leadership assistance to the Director in the planning, coordination and management of the entire Department as well as acting as a consultant to other departments, town boards and commissions.

REPORTS BY DIVISION:

HIGHWAY:

The Highway Division of the DPW provides for the maintenance of all town roads, sidewalks, public path ways, municipal and school parking lots, fencing and guard rails.

In addition to the normal surface repair of roads and sidewalks, the Highway Division is responsible for the clearing of snow, sand, litter and other unwanted debris from public ways and facilities. It also maintains our brooks and streams by keeping them clear of debris to prevent public and private property flooding. The Highway Division also maintains the Pillings Pond Dam spillway area and control logs when needed.

The Highway Division has more than 74 miles (250+ lanes miles) of roads and 91.3 miles of sidewalks that it must maintain.

This past year the DPW continued to make immediate repairs to roadways and sidewalks in an effort to preserve their surface integrity for the safety of the public. With the elimination of the sidewalk repair program that was once in place several years ago it makes it difficult to keep up with the much needed repairs throughout town. I hope that the town will, in the near future, be able to fund the annual appropriation of \$70,000 to reinstitute this very important and needed program.

This year Public Works cleaned a total of 1600 catch basins throughout the town, which helped in preventing street flooding caused by clogged drain lines. The town still has several long outstanding drainage problems with undersized pipes that cause street flooding during heavy rain events. This is also exacerbated by the fact that some residents have sump pumps tied into the town's drainage system which reduces the capacity of the line. The DPW has adopted a new policy where tie ins to the town's drainage system can only be done under extreme situations and only after underground recharge leaching basins are installed on the homeowners property before an overflow pipe is allowed to be tied into the town's drainage system.

The DPW continued its' aggressive program to repair damaged manholes and catch basins throughout town. We were able to repair over 38 collapsed catch basins and manholes this year as well as jet vacuum 6 additional catch basins that were completely blocked.

The Town replaced over 2500 feet of damaged curbing from this past winters plowing.

The Spring season brought the usual DPW clean-up efforts with the street sweeping program in early April and the street stripping program completed in early June. Over 165 street and traffic signs were replaced this past year.

Public Works finalized, at the beginning of the fiscal year, the complete reconstruction project on that section of Salem Street from the Wakefield town line to Walnut Street. Over 4465 feet of new granite curb was installed along with the newly resurfaced road. The section of Salem Street between the Wakefield town line and Hidden Valley Road was completely reconstructed by the reclamation process while the remaining section of Salem Street was repaired by milling off the top 2-1/2" of bituminous pavement and resurfaced with a new layer of bituminous pavement.



The repaving of Salem Street from Wakefield to Summer Street is planned over the next three years in a phase process. As soon as funds become available and after anticipated construction of the approved 40B housing projects scheduled for this area are completed, the DPW will continue with phase 2 of this much needed improvement.



Since the price of asphalt has dramatically increased over the past two years and continues to climb because of the price increases to crude oil it will mean that less roads will be resurfaced each year. With the only funding source for highway resurfacing being Mass Highway Chapter 90 funds it will be very difficult to keep up with the 40 year highway resurfacing program established by the department back in 2003. In that report it estimated that \$ 370,000/yr. would be needed to keep the program on target. Public Works currently receives \$216,754/yr. from Chapter 90 appropriations. The cost to do the work that was completed on Salem

Street alone amounted to \$ 187,000. This leaves very little money for local roads.

As a result of the damage from the May 2006 floods both that portion of Summer Street under the Rt. 128 overpass and that section of Chestnut Street over Beaver Dam Brook was repaired by milling of the top 2-1/2 inches of bituminous pavement and then repaving those sections with new bituminous concrete.

In the case of Chestnut Street, the old drainage culvert had to be repaired first before the road could be repaired. Over 350 feet of new bituminous curbing was also installed as part of this repair project, along with the refurbishing of the old wooden guard rails.



Final repairs being made to Chestnut Street



Repairs to culvert

CEMETERIES:

During the past year there were (30) interments at Forest Hill Cemetery and (14) at Willow Cemetery. During this same period there were a total of (33) new graves sold at Forest Hill and (3) graves sold at Willow Cemetery.

As we do each year, the Department spends many man hours cutting the many acres of grass along with the caring for the many shrubs, trees, etc. in an effort to keep our cemeteries looking beautiful.

Some of the things that were accomplished this year were:



- Expand on a small section of Willow Cemetery for future grave sites.
- Planted several new trees at Forest hill and Willow Cemeteries



- Surveyed, mapped, and staked out the first and second remaining new sections of Forest Hill
- Repaired the damaged granite post to the entrance to Forest Hill
- Installed new drainage at Forest Hill to prevent avenue washouts and grave site flooding.
- Removed excess fill and cleaned up the “pit” areas of both cemeteries, loamed and seeded those areas.
- Loamed and seeded many graves in both cemeteries that had damage from grubs, weeds etc.

In the next 5-10 years the town will need to consider seeking additional land for cemetery purposes in order to have graves available for future burials. If land is not acquired soon then the town may need to consider restricting advanced sale of lots.

Anyone who may have deeds to lots that are no longer going to be used by family members are encouraged to sell them back to the town for a full refund of their original purchase price. You can contact the DPW office on how this is done.

SNOW & ICE :

Public Works is responsible for clearing over (250) lane miles of roadway and (15) of the towns (91) miles of sidewalks along with (4) school parking lots and (5) municipal building parking lots which includes Post Office Square.

In addition to the roads and municipal/ school parking lots we also clear all avenues in both cemeteries and the parking areas at Jordan, Newhall, and Glen Meadow Parks after the storm has passed. Depending on the intensity of the storm this may take several hours or several days to complete. Our Department works continuously until the job is completed.

The 2005-2006 snowfall season was a long season (158 days) which began early on October 29th, when 1-1/2” of snow fell and finished on April 5, 2006 when a trace of snow fell on lawns.

The total snowfall amount for the season was recorded at (54.65”) inches. This is only half of what the Town experienced during last winter seasons record breaking amount of (110.5”) inches. The average snowfall amount for Lynnfield is usually between 60-65 inches of snow.

During this long season the town experienced (15) storms where less than 6 inches of snow fell, no snow events between 6-12 inches and (2) storms where more than 12 inches fell. The largest storm of the season occurred on February 12th when 14.50 inches of dry fluffy snow fell during blizzard conditions.

During the season Public Works was called upon to go out many more nights and early mornings besides the (17) snow events in an effort to keep our roadways, sidewalks, schools and municipal buildings clear and safe from ice so that they would be safe for the public and school children when commuter hour arrived.

Public Works needed to request for (2) additional \$75,000 snow emergency transfer of funds to supplement its original snow budget of \$75,000. This resulted in a snow budget deficit of -\$150,000.

I would like to thank the men of the department who worked the many hours performing an outstanding job and service to the town.

PARKS & PLAYGROUNDS:

The DPW is responsible for maintaining over 60+ acres of public open space, comprising (5) playgrounds and/or tot lots; (4) parks; land around (5) municipal buildings, (4) school buildings; (4) basketball courts, (11) tennis courts, (1) outdoor running track, (2) football field, (12) baseball/ softball diamonds, (5) multi-use playing fields used for soccer, field hockey, and lacrosse. This maintenance includes irrigation wells and systems for most of these fields.



In addition to routine maintenance of all school/ municipal grounds and parks the DPW took part in the design and construction of Pillings Pond Park with the financial sponsorship of the Lynnfield Rotary Club.

Public Works created off street parking for this park by relocating the existing sidewalk closer to Pillings Pond. In addition, new ornate benches were installed which were donated by private individuals in memory of family members or in living remembrance for their contributions to Pillings Pond. A small craft launching dock was also installed adjacent to this park for people to launch

canoes or just to fish off of. The park was finished off with landscaping and a dedication rock and plaque.

Many people can now come and sit and enjoy the beauty of Pillings Pond which is one of Lynnfield's jewels.



Public Works also assisted the residents of Vokes Terrace area to lobby Mass Highway to remove a large concrete mast arm sign base foundation that was installed by Mass Highway and later abandoned. The removal of this concrete structure and regrading of the surrounding area to its original grades will provide residents with better site distance from exiting Route 1 traffic as well as allowing landscaping to take place and beautify this neighborhood.

As what is happening in many towns the ever-increasing number of athletic programs is causing very serious maintenance problems for the DPW. The Town currently has a significant shortage of field space. Due to the demand the town is consistently over using its' fields and unable to allow them time to rest and re-establish the turf grass. Even with an aggressive field maintenance program, the town cannot deliver quality playing fields without resting them.

Sports teams begin using our fields sometime even before snow is gone in early spring and play until early December. DPW has had to lay sod in areas in order to get these fields back on line for the next season's usage since there is not enough growing time for grass seed to establish itself.

The town may want to consider what most towns are looking at which is installing synthetic turf. This is very expensive and has an expected lifespan of 10-12 years but it would allow the fields to be used in these extended seasons. Funding for such venture would need to come from a combination of grants, donations, fundraising, besides the town's revenue.

Public Works does receive some financial assistance from the various athletic organizations throughout the year to help defray some of the department operating costs towards maintaining the fields. Without these funds we would not be able to keep these fields in conditions that each sport demands. Many thanks go to the youth soccer, football and baseball leagues who participate in this partnership each year.

DPW is committed to using every resource it has to try and give the many sports organizations in town the best playing fields that we can with the budget that is allowed.

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FORESTRY/ TREES:

This past year over 35 diseased, storm damaged, or root damaged trees were taken down. There were many more that were pruned back of their dead wood. With the limited funds that the DPW has to work with each year Public Works can only take down those trees that are determined to be safety hazard or badly diseased.

The DPW also continued its road clearing program on several streets. This is where we try to reclaim sidewalks and roads that have brush and tree overgrowth that have encroached into the right of way. The roadside cutter that was purchased several years ago has proven to be a great tool in this effort.

Last spring the state experienced a severe outbreak of the Anthracnose fungi. This caused defoliation of many maple trees. Damage was a result of the unusually cool, wet weather during bud break this past spring. Single attacks are seldom harmful to the tree, but yearly infections will cause reduced growth and may predispose the tree to other stresses.

Tree experts recommend the following actions that can be taken to reduce this disease:

For effective anthracnose control of most anthracnose diseases:

- Rake up and remove infected leaves in the fall. Leaves may be shredded and composted or burned.
- Prune out and burn or bury dead twigs and small branches. Prune to thin the crown. Thinning will improve air movement and promote faster drying of the leaves.
- If fertilizer is needed, fertilize in the fall about a month after the average date of the first frost or in early spring about a month before the date of the last frost to increase tree vigor.
- If chemical control is desired, spray with a fungicide containing mancozeb (e.g. Manzate 200, Dithane M-45) at budswell and twice again during leaf expansion (in most years, this would be at 10-14 day intervals). Follow label rates.
- Because Discula anthracnose is often fatal to the tree, control of this anthracnose disease on dogwood is a special case.

Public Works continued to work with Townscape this spring with the planting of 10 new trees around town. We are always happy to assist them with there very important program that residents can really appreciate

each spring when you see the pink ribbons which identify all the trees over the years that were planted as part of this organization.

SOLID WASTE / RECYCLING:

The Public Works department is responsible for managing residential solid waste collection and disposal services for 4229 residential households along with the recycling and recovery program that includes the annual collection of residential household hazardous waste.

The town continues to use the services of JRM Hauling & Recycling to collect and haul all our trash and recyclables. They have been a reliable and dependable contractor with the town since 2000 and are contracted until the year 2010.

During fiscal year 2006 the town collected and disposed of the following amounts from curbside collection:

- 5519 tons of solid waste (trash)
- 267 tons of co-mingled plastics/glass
- 665 tons of mixed paper
- 174 TV monitors
- 128 appliances
- 22 lawnmower/ grills
- 53 AC units
- 8 other large items

In addition to the curbside collected items residents also used the recycling center located behind town hall to dispose of:

- 174 CRT's/ electronics
- 778 fluorescent light tubes
- 112 mercury thermometers
- 375 tons of leaves, grass clippings, yard waste
- Undetermined amount of clothing items (donated to St. Vincent DePaul)

Removing many of these items from the waste stream not only provides for a cleaner and healthier environment but it also saves the town money. For example, when mixed paper is recycled vs. throwing it in the trash the town is able to collect \$25 per ton while also avoiding the current tipping fee of \$60.07 per ton. That is an \$85.07 per ton benefit to the town.

Public Works along with the concerted efforts of our active Recycling Committee, continues to try and find ways to improve our recycling percentages each year. There is always room for improvement.

The tipping fee at Covanta, in Haverhill, increases every year and was \$60.07 per ton for the FY-06 fiscal year. This results in a cost of over \$ 331,527 this fiscal year to dispose of the Towns unrecyclable trash.

Public Works held its' annual Household Hazardous Waste Collection Days this past year at no cost to Lynnfield Residents. This event again was very successful in which (198) residents took part in. When this event was formerly run back in the mid 1990's there were only (70) residents who used this service. People were able to dispose of chemicals, oil base paints, TV's, propane tanks, pesticides and many other hazardous materials at



this event.

The grant from DEP that once helped defray much of the cost of this event has been eliminated which will mean that if the town wants to continue sponsoring this much needed event it will have to do so either by charging residents the full cost or by putting it into the DPW operating budget. The cost to sponsor this once a year event is around \$8,000. Because of budget constraints DPW is now planning to sponsor this event every other year for now.



Some additional accomplishments /improvements made during the year were:



- Co-sponsored, along with the Lynnfield Recycling Committee, a well attended home composting workshop presented by the DEP.
- Started an aggressive paper recycling program in all our schools. Thanks go to the principles and teachers for assisting us in this program.
- Applied for and received a small grant from DEP for the purchase of home compost bins and kitchen waste buckets to help promote this program
- Implemented the new monthly curbside collection program for large household items. This was implemented to better serve the public and replace the drop off-program that was in place behind the town hall.

Please refer to the DPW's web site for all updates regarding trash and recycling.



SCHOOLS:

One of the missions of the DPW is to provide the Town of Lynnfield with a high degree of quality service in custodial services, maintenance, and improvements to our schools. We are committed to protect the town's recent investment in the renovations of all our school facilities. With the school building projects finally winding down the DPW began the process of completing the many left over construction punch list items that were not completed by the various contractors. Many items were relatively small in nature and were funded with monies held back from the building contractors.

DPW spent much of the summer completing these repairs before the start of school as well as performing the normal summer cleanup and other normal building maintenance items.

Some of the annual repairs done to all schools include:

- replaced numerous exhaust fan and air handler belts
- replaced all building air filters twice during the school year
- painted many common areas during the summer that needed to be touched up

- resolved miscellaneous “no heat” problems
- Completed miscellaneous carpentry projects
- Replaced ceiling tiles in classrooms and hallways as required
- Completed annual fire alarm inspection
- Repaired plumbing and fixture problems throughout building

Some of the many projects that were site specific and completed and/or managed by the DPW in 2006 were:

High School:

- Removed the old gym hardwood floor and replaced it with a new and more resilient athletic hardwood floor.



Demolition of old floor



New resilient athletic hardwood floor being installed

- Serviced the building emergency generator
- Maintained and operated the building sewerage disposal facility and system to keep in compliance with DEP permits.
- repaired fire alarm panel and security system
- Had Northshore Vocational School construct new girl's softball dugouts
- Had Essex County Correctional Graffiti Unit in to remove building graffiti
- Performed general roof maintenance on the flat roof
- Completed annual flush down, inspection and cleanout of two boilers
- Cleared plugged roof drains
- Installed new camera surveillance system

Middle school

- Refinished hardwood floors in gym and auditorium stage
- Repaired several roof leaks not covered by warranty
- Installed irrigation storage tanks to field irrigation system
- Installed additional fencing to girl's softball field and path to football field
- Rebuilt long jump pits
- Installed pedestrian gates to football field fencing

Summer Street School

- Extended chain link fence in rear of school
- Repaired resilient playground surface
- Added additional signage at driveway and bus loop for enhanced safety
- Plumbing work in kitchen for compliance with Board of Health

- Numerous repairs and rework of door hardware
- Repaired basketball adjustable backboards
- Refinished hardwood floor in all purpose room
- Added electrical outlets and ceiling fans

Huckleberry Hill School

- Replaced compressor for walk-in cooler
- Installed bollards at bus loop for student safety
- Extended yard fencing at basketball hoops
- Installed backstop at playfield
- Repaired basketball adjustable backboards
- Numerous repairs and rework of door hardware
- Added electrical outlets and ceiling fans
- Coordinated replacement of defective concrete sidewalks

MUNICIPAL BUILDINGS:



One of the many functions of the Public Works Department is to maintain our Municipal buildings and facilities. The Department maintains, which includes daily cleaning, (7) active town buildings and (2) inactive town buildings along with the parking lots and grounds that surround these buildings. This proves to be a very challenging job

Some of the many projects and functions completed and/or managed by the department under the leadership of Thom Forbes, Assistant Director of Facilities, are listed below:



TOWN HALL/ POLICE STATION COMPLEX

- Painted front (parking lot side) of building as well as interior touch up
- Installed new carpeting throughout town hall in all offices (11,200 sf.)
- Replaced ceiling tiles in Assessors, Clerks and Building Department Offices
- Completely renovated former voting room by installing new A/C units, lighting improvements, replacing entire ceiling and painting entire office as well as building a new public counter area for the new Inspectional Services Office which now houses the Building, Wire, and Electrical Inspectors along with the Board of Health Agent. New walls were installed to create a room within the new Inspectional Services Office for the School IT technicians.

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Renovated (6) other town offices



- Installed new floor tiles and plumbing fixtures in lower bathroom.
- Repaired boiler problems (total system to be replaced next year).
- Corrected several heating issues which included



New septic tank being installed

Installing new canopy over fuel facility

- Replacing leaking valves.
- Installed new septic system
- Installed new fuel management system and canopy
- Made repairs to leaky roof over police station (will need new roof soon)
- Replaced (3) packaged A/C compressor units to Town Hall

CENTER LIBRARY



- Installed all new carpeting in all areas of the library (8,600 square feet).
- Repaired front concrete steps that were cracked.
- Pumped out septic system



- Installed new heating system, pumps and A/C unit

SOUTH LIBRARY BUILDING

- Replaced damaged oil furnace with new unit.
- Replaced basement sump pump and repaired broken drain pipe in Salem Street sidewalk area used by sump pump.

SOUTH FIRE COMPLEX

- Repaired concrete fire apparatus pad in rear of building
- Repaired cooling radiator to emergency generator

SENIOR CENTER

- Completely refinished main room hardwood floor
- Replaced damaged building electric transformer
- Replaced damaged hot water heater
- Made many electrical improvements in basement
- Constructed new front parking lot area
- Pumped out septic system and hair salon holding tank

DPW GARAGE

- Had Northshore Vocational School install new floor tile in men's bathroom, kitchen and locker rooms.
- Painted bathroom, kitchen and locker room
- Painted building exterior where needed
- Installed new emergency generator
- Removed satellite weather system
- Paved parking lot in front of new addition
- Installed gas heat in red barn
- Cleaned out junk from rear yard and regarded area.

MAJOR DPW CAPITAL EQUIPMENT PURCHASES:

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*New 33,000 GVW dump truck (Truck#13)**New Foreman's truck (Truck#4)*

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*New School Bus #3*

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OTHER EVENTS/PROJECTS:

SENIOR CENTER PARKING LOT

One of our projects this year was to construct the new (24) space parking lot in front of the Senior Center.



Removing trees new lot area



Roughed out area new lot

*Adding
Berm to new*



lot

Binder paving new lot

MOTHER'S DAY FLOOD (May 12-15, 2006)

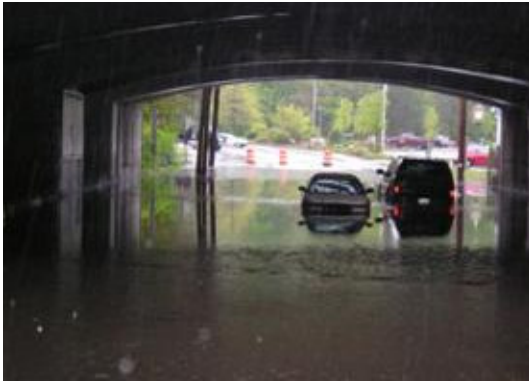


One of the most extreme events that the town has experienced in the last 15 years was the infamous "Mother's Day" floods of May 12-15, 2006.

Unofficially the Town received over 11" of rain during this storm event.

The DPW started to prepare for this historic event on Tuesday, May 9th by clearing known trouble brooks of debris, preparing equipment, pumps etc as well as documenting pond elevations at the Pillings Pond Dam. Weather forecasters were only predicting

the potential for 3-5" of rainfall at the time.



The DPW had (9) road closures at the height of the storm and was able to reduce this down to (2) areas after the storm subsided. Yorkshire Drive area took the longest to subside and left this area closed for (6) days. The Town of Saugus had flooding of Hawkes Pond across Walnut Street in Saugus towards the end of the storm which resulted in Lynnfield being forced to close Walnut Street at Salem Street to Saugus bound traffic for nearly (2-1/2) days.



Pillsbury Pond Dam was the biggest challenge for the Department during the storm when the embankment area on the south side of the dam began to erode and was in jeopardy of failure. DPW quickly

responded by sand bagging both side of the dam as well as remove all stop logs in the dam spillway. We continued to monitor the dam throughout the storm while notifying abutters and Town officials of our activities.

Municipal building damages caused by basement flooding were confined to just two buildings. The South branch Library flooded as a result of a failed sump pump which left over (4) feet of water in the basement area. No damage was done to the upstairs area. Building electricity was shut down for (5) days until the cellar was pumped and repairs were made to the sump pump. The oil fired furnace was destroyed and eventually replaced.

The Senior Center/SEEM building proved to be the biggest problem when the basement sump pump could not keep up with the ground water entering around its foundation. This resulted in nearly (5) feet of water flooding the entire basement area which blew out the buildings electrical transformer. Electricity was shut down for more than (6) days while pumps were brought in to pump out the cellar. Due to the depth of the cellar that is below grade (approximately 15 feet) it took until Friday, May 19th to get the cellar down to a point where we could install a larger electric pump to replace the gas driven centrifugal pump.



Of course the electricity needed to be turned on in order to run this new pump. Water was still coming in around the foundation walls as of Monday, May 22, 2006, however, we were able to maintain less than 1-2" of water across the basement floor area.

Due to the extended time of the building closure and the potential for CO to be in the building the DPW vented this building all day Friday and early Saturday before air quality testing was performed late Saturday afternoon. Once the electricity was turned on Friday we had the added assistance from the rooftop air handling units to circulate

fresh air into the building. The decision was made on Saturday afternoon after preliminary tests were okay to open this building as of today, May 22, 2006. DPW continued to clean up etc in the basement area. This went on for the next (3) week.





The Chestnut Street area over the Beaver Dam Brook was the only street to receive the heaviest damage due to severe washout caused by Beaver Dam Brook overtopping the road for several days. Temporary repairs were made to the road until the complete repairs were finished in October 2006.

The Federal Emergency Management Agency (FEMA) declared a Federal emergency on June 9, 2006. The town was reimbursed for 75% of the damages and expenses during this event as well as the cleanup that followed. This resulted in a \$70,676.39 reimbursement

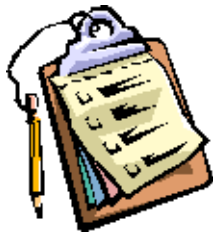
check back to the town.

The repairs costs to Chestnut Street and Summer Street did not qualify under the FEMA guidelines which meant that the town was obligated to make those repairs under Mass Highway's Chapter 90 appropriation. That was an additional \$54,989 expense to the town.

DPW ADDITION:



The final items of work, such as the installation of the garage overhead doors and site paving, were completed to finally close construction on the (8) bay (5460 sf.) DPW addition that was funded as part of the school renovation project. Most of the construction work to this addition was completed in 2005. This project included a new 875 square foot wood shop that replaces the closed wood shop that was once located in the old Middle School. The wood shop is used by our maintenance staff to do all carpentry repairs and improvements to our municipal and school buildings.



GENERAL NOTES:

Along with the various projects undertaken by the Department of Public Works this year, the following miscellaneous activities occurred:

- Monitored the extensive underground fiber optic installation program conducted throughout town by Verizon. We were responsible for compliance inspections to the town permit and to make sure that damages to town and private properties were kept to a minimum.
- Negotiated a long term agreement with Energy East that will guarantee lower natural gas prices for heating all our town facilities.
- Continues to upgrade our web site to keep residents informed and up to date on department programs, warnings and activities.
- Established a new street access permit and working on a revised street opening permit that will be interactive on the DPW web site.
- Continues to work with organizations, committees and residents in seeing that we could provide them

with the assistance for their events to make them run smooth. Some of these events included the Annual Tree Lighting Ceremony, Concerts on the Commons, Rotary barbeque, numerous sponsored road races, parades and individual block parties held throughout the year.

- Drafted a new Pillings Pond Operations and Maintenance Manual to better manage the water levels of the pond.
- The Essex County Correctional Facility supplied the community service inmates to clean the litter on town roads and in areas where illegal dumping took place. The also provided the town with their graffiti removal mobile unit and crew to remove painted graffiti around town buildings and parks.

In conclusion, as you can see we have had a busy year for a busy Department.

I would like to thank the Board of Selectmen, Town Administrator, and the Community for their continued support of the Public works Department throughout the year.



I would also like to thank the members of my Public Works Advocacy Committee; Chairman, Fred Santangelo, Leo Marino and Anthony Giannetti for their time, guidance and help in promoting the needs and programs of the Department.

Finally, the accomplishments of the Department could not have been done without the dedication and hard work of all the employees of the DPW who continue to faithfully serve the growing needs of the Community.

Respectfully submitted,

DENNIS R. ROY
Director of Public Works



