



OFFICE OF THE PURCHASING AGENT

TOWN OF ARLINGTON
730 Massachusetts Avenue
Arlington, MA 02476

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DATE: March 17, 2017

TO ALL BIDDERS

BID NO. 17-06

SUBJECT: Project Manager/DPW Facility Renovation

ADDENDUM NO. 1

TO WHOM IT MAY CONCERN:

With reference to the bid request relative to the above subject, please note the following:

SEE ATTACHED FEASIBILITY STUDY

All other terms, conditions and specifications remain unchanged.

Very truly yours,

Town of Arlington

Domenic R. Lanzillotti
Purchasing Officer



Town of Arlington, Massachusetts Department of Public Works Town Yard - Existing Conditions Study

Revised Report

September 30, 2013
(with updated budgets dated 6 Nov 13)

Submitted by:

Weston and Sampson
Engineers, Architects and Facility Planners

RDK Engineers
Building Systems Engineers

Weston&Sampson®

September 30, 2013
(with updated budgets dated 6 Nov 13)

Michael Rademacher, P.E.
Director of Public Works
Town of Arlington
51 Grove Street

Re: Arlington DPW Facility Existing Conditions Study
51 Grove Street

Dear Mr. Rademacher,

We are very pleased to submit the attached Revised Final Report which presents the analysis completed by our Consultant team, including our review of the site's history, conclusions regarding the existing conditions, and our recommendations for repairs and reorganization.

Please feel free to contact me if you have any questions regarding the enclosed materials.

We would welcome the opportunity to work with you and your staff to implement the much needed upgrade to your Facility.

Very truly yours
WESTON & SAMPSON



D. Michael Hicks, AIA
Director of Facilities and Architecture

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STUDY PURPOSE

Weston & Sampson was commissioned by the Town of Arlington to complete a number of tasks:

1. Prepare an existing condition assessment of the Arlington DPW site and facilities at 51 Grove Street, Arlington, MA 02476.
2. Prepare an assessment of the department's operations and current space uses.
3. Prepare recommendations for improved department operations, site and building use and system upgrades.
4. Prepare a development budget for all proposed changes to the site, buildings and department operations.

HISTORY OF DEVELOPMENT

The current site of the Arlington Department of Public Works at 51 Grove Street is a complex of several brick and concrete structures. Historically, the site is known as the Grove Street Town Yard and has been listed under that name on the National Register of Historic Places (NRHP) since 1985.



1914 Meter Building (Building A)



1914 Power Building (Building D)

The NRHP nomination form for the Grove Street Town Yard was reviewed to determine past functions on the site that have contributed to its current condition. The form, prepared by the Massachusetts Historical Society and approved in 1985 by the US Department of the Interior indicates the site's first major industrial use was the Welch and Griffith saw factory. Founded in 1830, the factory was the first of its kind in the United States. Following a fire in 1913, the site was turned over to the Arlington Gas Light Company which built the existing 1914 brick Romanesque buildings (A+D) on site for use in the production of natural gas, an activity responsible for many of the site's current environmental conditions. The site was turned over to the Town of Arlington in 1975 for use as the headquarters of the Department of Public Works, which occupied the original meter and power station buildings. An additional brick building (Building B) was added for offices, and existing garage building replaced, and a transfer station was constructed which is no longer used for that function.

Since 1975, the Department of Public Works has slowly consolidated its core functions on the site. This has included the conversion of spaces into workshops, changes to the site organization and a renovation to the office building (Building B), completed in 2009, to better accommodate administrative functions. Currently, the buildings and site struggle to house the vast operations of the DPW in an efficient manner due to remnants and layers of many industrial activities over its history, and the need to a strong “revisioning” for the site.

EXISTING CONDITIONS

Site

The existing site at 51 Grove Street is of a considerable size to accommodate the functions of the Department of Public Works. However, a number of non-departmental operations that have encroached upon the DPW’s facilities cause inefficiencies and unsafe working conditions for the department and its staff.



Aerial view, looking SE



Overall site plan.

Extra Departmental Activities

The site is currently hosting a number of functions from other town departments that decrease the amount of usable space for the DPW and create a hazardous and inefficient working environment.

A fleet of school buses are parked throughout the site, limiting proper circulation for DPW activities and creating consistent traffic throughout the day. In addition to the school buses, several Department of Education SUVs and a mobile food truck are also frequently parked on the site. The number of vehicles varies from day to day and the DPW has no way of planning for the number of Department of Education vehicles that will arrive, or controlling where they are parked. These vehicles also utilize electric power on site, the cost of which is not reimbursed to DPW.

The presence of these non-DPW vehicles on the site creates a crowding and traffic flow problem, as well as a security vulnerability. The site is left unlocked during the weekends to allow bus drivers access to their vehicles. Bus drivers also park on the site in the DPW employee parking area in the morning and afternoon during their regularly scheduled routes. This takes away DPW employee parking, resulting in employee

vehicles being located in the more hazardous work areas of the site.



School buses parked on the site.



School bus parked in the gas company easement.

The site shares a border with the athletic fields of the Arlington High School and is an easy access point for students walking to school. This generates significant student pedestrian and bicycle traffic across the DPW site, primarily at the beginning and end of the school day, a situation which is dangerous for the students and a potential liability for the DPW. In addition to serving as a student short cut, the DPW's employee parking lot is used unofficially as a drop off point for parents in the morning and pick up point in the afternoon. The less intense traffic on Grove Street, when compared to Massachusetts Avenue, makes this an inviting spot for parents, but creates cross traffic in the DPW parking lot at the same time that many trade staff are leaving for their work assignments.



Path from the DPW to the high school athletic fields.



Employee parking area used as a student drop-off.

Public Parking Permits

The employee parking lot is used by the town as a public parking location in the evenings. Residents leave their vehicles in the evening and are required to be out by 7am. Because the DPW work day starts before 7am, some arriving employees are left without dedicated spaces and often must maneuver large vehicles around resident vehicles.

Fire Department

A construction trailer has been parked on the site for several years at the west end of Building D. The trailer was brought on site several years ago while one of the town's fire houses was undergoing a

renovation. During this time, the fire company used several maintenance bays for their trucks and the staff used the trailer as their on-call site. While the fire department has returned to their fire house, the trailer has been left behind, occupying a portion of the site that is key to efficient circulation. No plans have been made to remove the trailer as of the time of the site assessment.



Construction trailer left on the site by the AFD.



Trailer attached to DPW plumbing and utilities.

Animal Control

At the South East corner of the site is a building that houses the town's animal control department. The building's current condition renders it unusable, though the exterior enclosures are still used at times for holding pens. Currently the animal control officer uses the construction trailer left behind by the fire department as his office, a solution that is not permanent. The Animal Control building also takes up valuable space that should be used for DPW operations or material storage. There also is a legitimate question regarding whether this function is compatible with the activities of a DPW Yard.



Animal Control Facility impedes DPW functions.

National Grid Easement

The North East corner of the site borders with a property that remains in the hands of National Grid along Grove Street. Periodically, an 18 wheel tractor trailer backs into the DPW Yard via a legal easement to deposit gas odorant, requiring the site to be relatively clear and open for its arrival. This access is complicated by the presence of school buses and various non-departmental vehicles.



National Grid property and easement shown in blue above.
(Land Transfer Plan 1190-1976)



Easement allows access for odorant deposit.

Transfer Station

In the 1977 site rehabilitation, a transfer station was built on the site which has since been decommissioned. It is no longer in use with the exception of a CRT television drop off, organized by the DPW. Currently these televisions are left in the middle of the site and not in an organized and covered space. Much of the transfer station has been removed but a single metal panel building that is built into slope of the site around it is still in place as well as open concrete dividers used by the DPW for mulch and other natural storm waste, and the concrete vault which housed the vehicle scale. The transfer station remnants are an impediment to more effective use of that portion of the Yard.



Bulk material storage bays along High School property line.



Remaining Transfer Station structure

Storage

The site lacks adequate protective storage for vehicles, plows and bulk materials. Though there is room on the site to accommodate a certain degree of organized exterior storage for vehicles and equipment, the extra-departmental activities previously noted occupy a significant area, and precludes the entire site from being effectively organized to support DPW activities.

It has been noted that the Department lacks a designated area, either on- or off-site, for temporary staging of snow and/or storm debris. Previously the DPW had a remote site that was used for snow dumping but

in recent years that site has been leased by the town to a private party, which forces DPW to accommodate snow/debris storage on the Grove Street site. Given its current challenges, the Town Yard is not able to accommodate significant quantities of this material, because it impedes normal DPW operations. The Department is currently searching for replacement emergency storage site.



Snow plows stored outside along Building D.



Supplies left exposed to the weather rapidly deteriorate.

Fuel Island

The DPW maintains a fuel island in the employee parking area that serves as a fueling point for all town vehicles. The existing canopy coverage is minimal, and doesn't provide adequate weather protection, creating safety issues with icing during the cold months.



Fuel island located within employee parking lot.



Small canopy provides inadequate weather protection.

Environmental Concerns

The site has been labeled as a Superfund site due to the prior activities of the Arlington Gas Company before the DPW occupied the location. The extraction of natural gas from coal and the improper disposal of industrial waste for over 150 years have complicated site drainage processes. There currently is a limited storm drainage system on the site that feeds into Mill Brook which runs across the site in a culvert (north to south). Those storm drainage lines are provided with gas traps. The Brook culvert is open along the west side of Building A, at one location in the middle of the DPW Yard, and at another location adjacent to south property line before the Brook passes under the High School athletic fields. During times of heavy rain, Mill Brook rises out of the culvert through all of the openings and floods a portion of the

Yard. The grading of the site, and limited storm drain system, generates a fair amount of sheet flow across the Yard, some of which enters Mill Brook at these openings.

Mill Brook

As noted above, Mill Brook bisects the Town Yard. It is mostly contained in a culvert under pavement, but is open at three points. Water flow has been observed to be often quite heavy, and as noted above, it has been reported that flow often exceeds the capacity of the culvert and floods the Yard. At times, the debris grille installed in the culvert opening in the middle of the yard becomes clogged during active storm events. When this occurs, the culvert openings within the Yard provide relief and an alternative path for flow back into the culvert.

Open portions of the culvert show signs of significant deterioration.



Mill Brook passing through the middle of site.

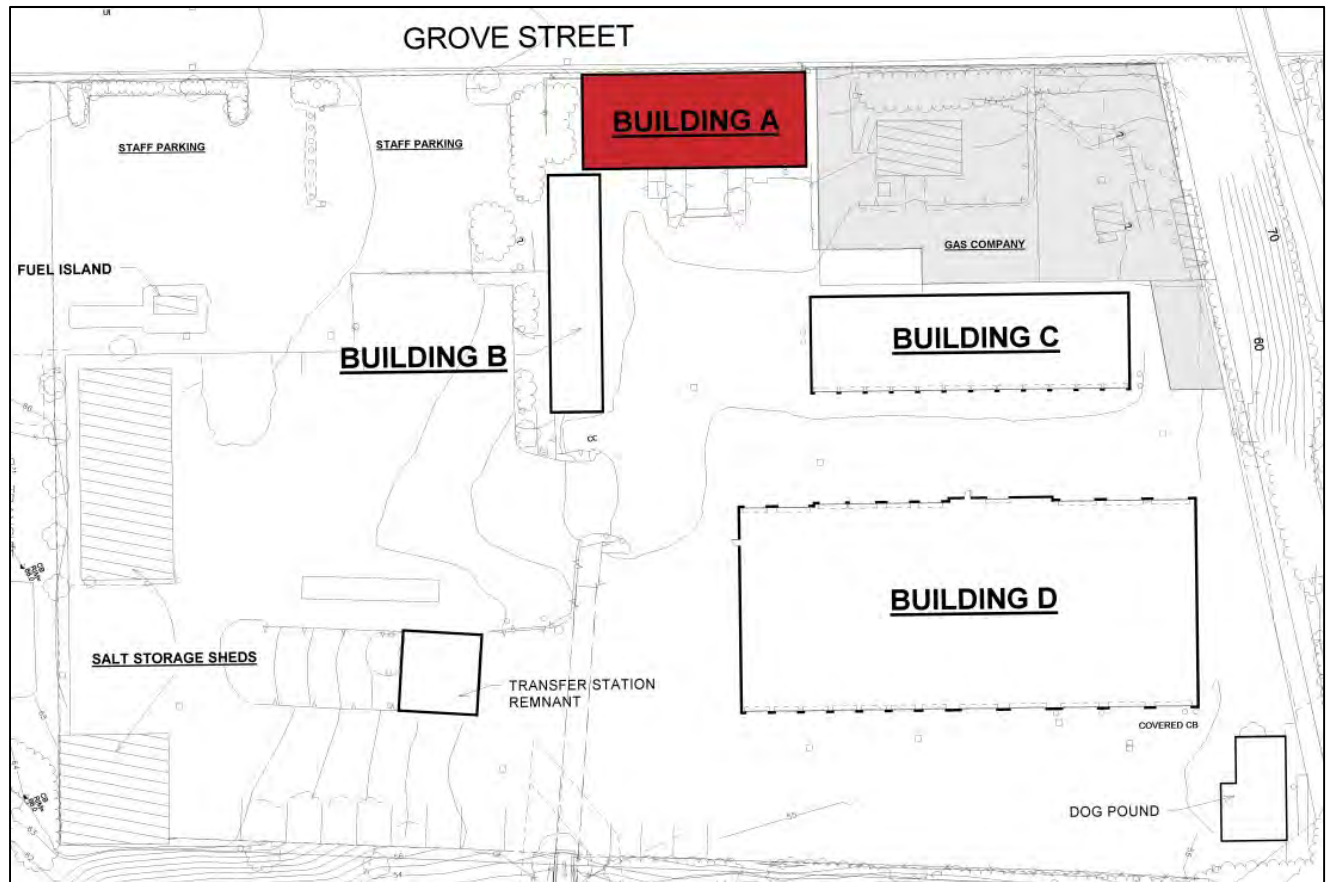


Debris grille in Mill Brook culvert opening.

Conclusion

Overall, the DPW controls a large site that could facilitate efficient operation of all of its key functions, though it is prevented from doing so by being forced to share the site with multiple non-departmental functions. The presence of these functions is compounded by the fact that the DPW Director does not possess any method of regulation over these activities and therefore cannot mitigate the current situation. While these vehicles and activities on the site pose many functional issues, the overall condition of the site poses as the largest obstacle in maximizing the site's potential as a suitable home for the Arlington DPW.

Buildings



Location of Building A

Building A: This building located on Grove Street is historically known as the “Meter Building” for its original function as an administrative building for the Arlington Gas Company. It was constructed of brick and concrete in 1914 and it has been in continuous use for nearly 100 years.



Building A entrance on Grove St.



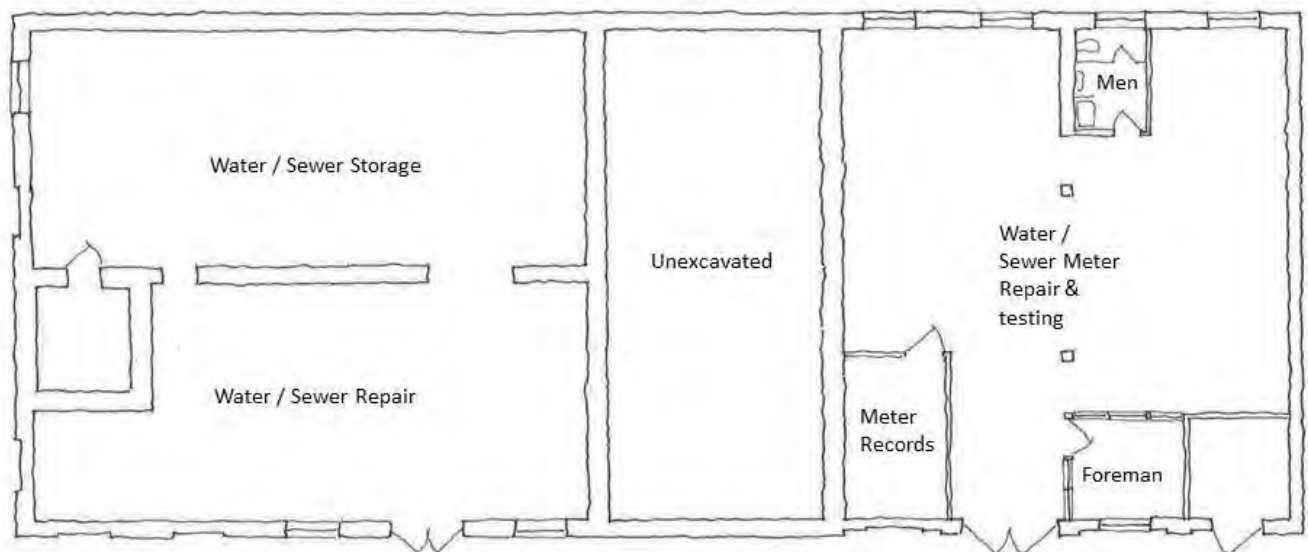
Aggressive plant materials on rear facade.

Very little has been done to the building's exterior since original construction to alter its appearance. The exiting windows, which were replaced a number of decades ago, are experiencing failures of their insulated glass unit seals. The building's masonry is in need of repointing though the bricks themselves appear to be in relatively good condition. In addition, some areas of masonry require immediate attention. The rear façade of the building which faces into the Town Yard is significantly overgrown with vegetation, which should be removed.



Deteriorated wood sign shop door still in use.

The street (or intermediate) level of Building A was renovated to create a public entrance and office space to accommodate the Building Department. In 1977 the exterior windows were replaced, according to documents provided by the Department. This renovation added an enlarged storefront entrance along the Grove Street façade. The windows on this building were installed when the building changed hands from the Gas Company to the Town. The newer storefront doors on this building are in good condition though the original wooden loft door used by the sign workshop is in need of repair or replacement.

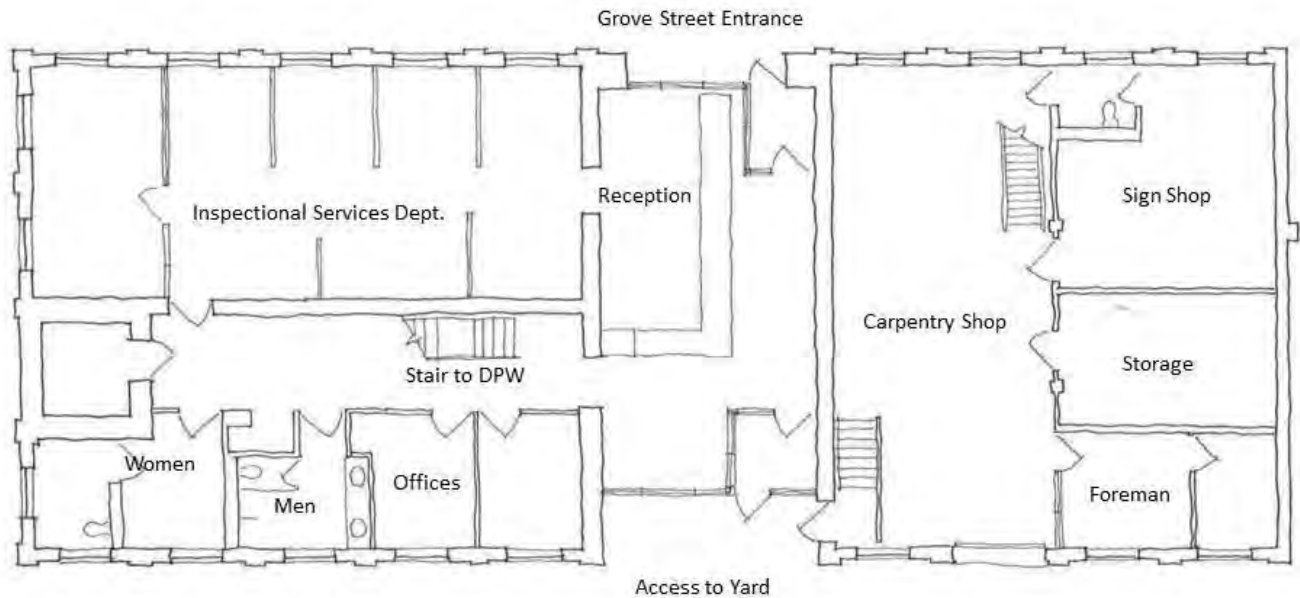


Existing Ground Level Plan of Building A

Ground Level: The ground level of the Meter building opens into the DPW yard and is primarily occupied by the Sewer Shop. The Sewer Shop is roughly 1600 SF of total space, subdivided into several areas. Included in this space is a 600 SF workshop that holds all of the department's files and several large work benches. The shop includes an office and a special tool (Supplies) closet that is also used as an office. Roughly half of the workshop space is used as a large break room, occupied by lockers and a full kitchen consisting of an oven with range, two refrigerators and a microwave. The Sewer Shop also has its own toilet facilities that are shared with the Sign Shop employees that work in the space directly above.

The left west side of the building at this level is used as storage for the Water Department.

A set of concrete stairs leads up to the Street Level of the building from the Yard where it meets a storefront entrance to the building into the reception area.

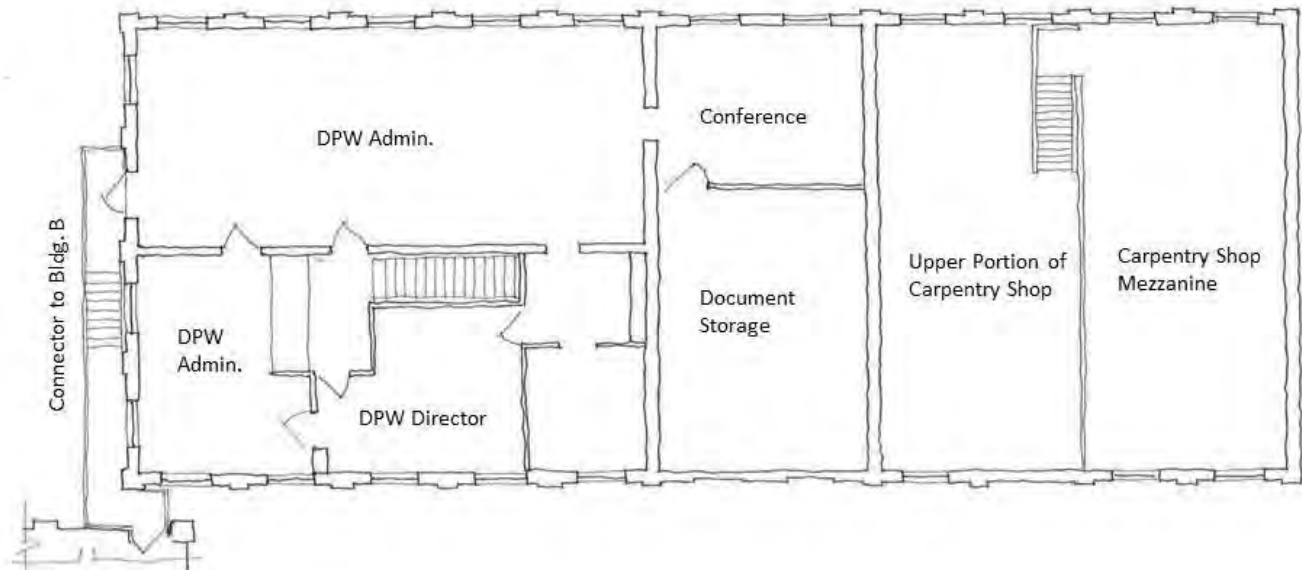


Existing Street Level Plan of Building A

Street Level: The street level of this building is accessible on the North side from Grove Street. This serves as the public entrance for the building, leading into an entry/reception area, which primarily serves the Town's Inspectional Services Department. The reception area opens directly thorough the DPW yard at the rear of the building and also provides access to the second level offices of DPW.

On the east side of the street level is the Carpentry Shop which incorporates a large sign shop. Accessible from the Yard side of the building, the workshops are entered by a set of narrow stairs. The Carpentry Shop is roughly 1000 SF in size and is a double height space, making it an excellent work area. It provides access to a large Sign Shop, a supply closet and an office space that is also used as a break room.

A second set of stairs gives access to a lofted storage space above the Carpentry Shop. Currently, it is used as storage and as a large break area for staff.

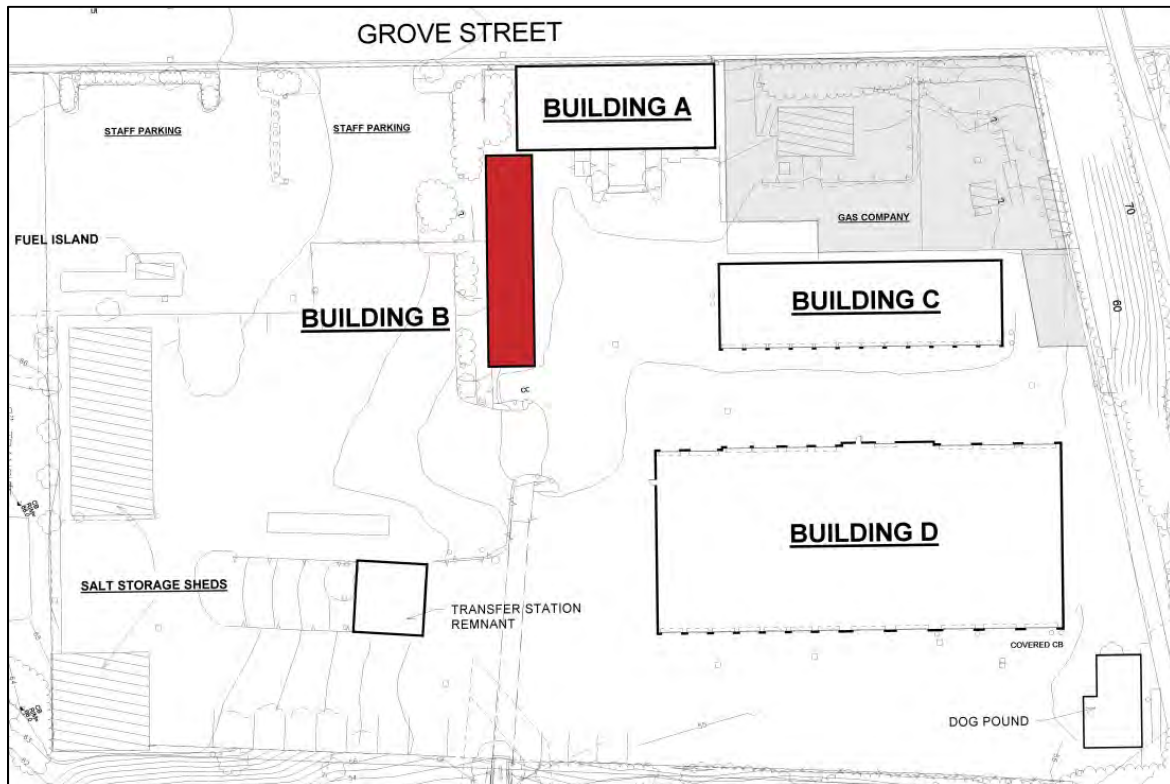


Existing Second Level Plan of Building A

Second Level: The Building A's second level is home to the DPW Director's office as well as administrative and functional support space for his office, including engineering, drafting, a break room, and a document vault.

The east side of this building of the second level is occupied by the double height space of the Carpentry Shop and the lofted storage space above the Sign Shop.

An exterior, metal grating fire escape is located along the western façade of the building, connecting the second level of the Building A to the upper floor of the adjacent Building B. This provides access between DPW admin staff as well as a second means of emergency egress for the second level of Building A. While it provides a short route between the two administrative offices, this fire escape is fully exposed to the weather, includes a set of steps, and is not handicapped accessible or particularly safe or comfortable to use. In times of inclement weather or when it is dark, it is arguable that the escape doesn't function as an adequate emergency exit - even for able bodied staff. The escape structure is also located directly above one of the Mill Brook viaduct openings, which only increases the level of discomfort during less than ideal weather conditions.



Location of Building B

Building B: This administrative building was constructed sometime between the original 1914 buildings on the site and the 1977 Building C garage. Construction appears to be mid-century with brick and concrete construction. This building's interior was renovated in 2009 to make substantial internal modifications to allow administration staff to relocate from Town Hall.



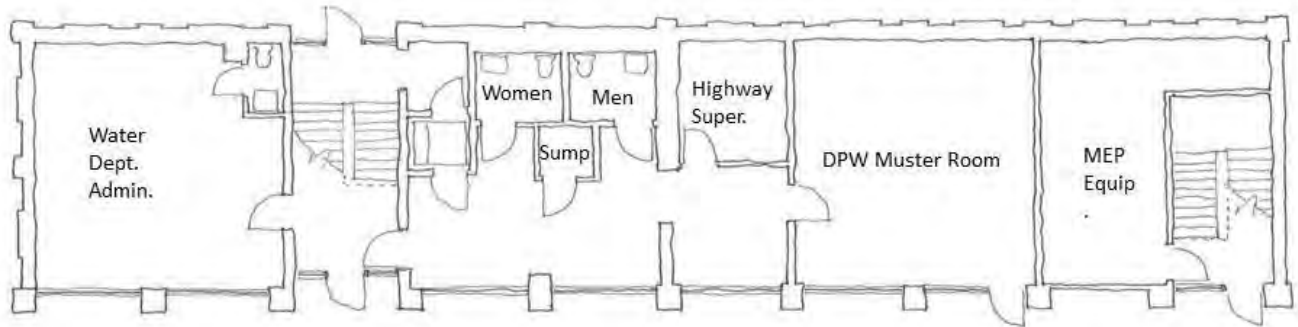
Leaching bricks on the rear of the building.



Leaching on the front of the building.

The masonry and its mortar are in good condition though instances of efflorescence indicate moisture within the walls, typically at copings or roof flashing. The DPW is currently working to remediate this issue.

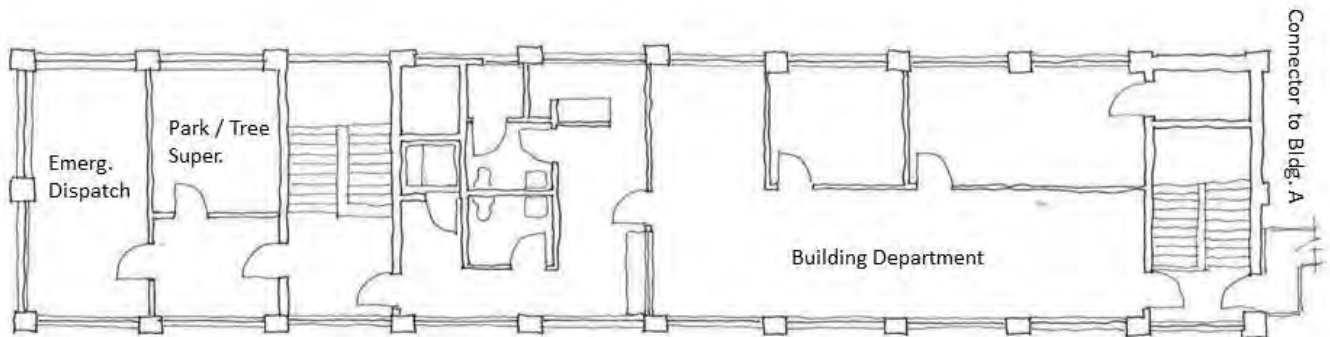
The roof of this building was replaced during the building's interior renovation in 2009. It remains in visibly good condition.



Existing Ground Level Plan of Building B

Ground Level: This level of Building B opens directly into the DPW Yard, making it an excellent area for employee dispatch and gathering. Currently, it is partially used for this purpose as it is home to the Highway Supervisor's Office and adjacent muster or break room. Some lockers are kept in the break room for staff. This space is the main assembly space for the all DPW, and is significantly undersized. The Supervisor's office lacks a view of the Yard and is located within a wide open corridor without a specific purpose. A pair of HC toilets is located off of this corridor; they are the only centrally located restroom facilities for the Highway Department Staff and do not have shower facilities.

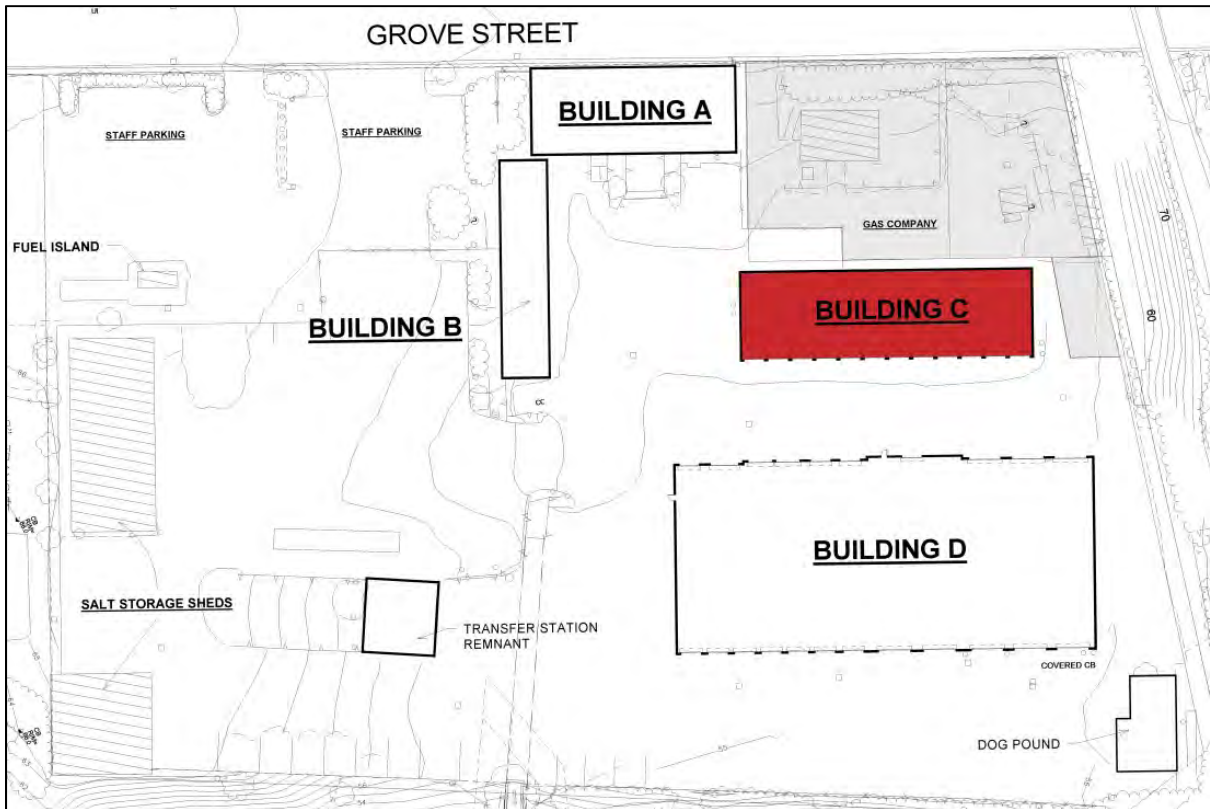
The Water Department is located at the south end of the building, directly next to a set of stairs leading to the public parking lot. A second set of stairs is located at the far north end of the building but is currently being used as storage on the ground level, a code violation that eliminates a second means of emergency egress for the upper level. The building's primary MEP space is also located on this level and is accessible from the yard.



Existing Street Level Plan of Building B

Street Level: The primary public entrance for the DPW is located at the street level of Building B and leads up a flight of stairs to the Building Department. To the right at the top of the stairs is the Park / Tree Supervisor's Office and the Emergency Dispatch Room. The Dispatch Room has a full view of the Yard, proving it to be an excellent location for this function. The rest of this floor was renovated in 2009, creating new offices and toilet facilities for DPW admin staff.

As was noted above, Building B is connected to Building A by way of an exterior fire escape which provides a more convenient connection between the Director's office and administrative staff, along with the second means of emergency egress for the second floor of Building A.



Location of Building C

Building C: This twelve bay garage was constructed in brick and concrete when the site changed hands from the Arlington Gas Company to the Town of Arlington. The building is used mostly for snow fighter storage and has little wear to its envelope. There is some evidence of brick efflorescence but both mortar and bricks are in good condition. Some of the vision panels on the overhead doors, which are not insulated, need replacement and are temporarily covered.

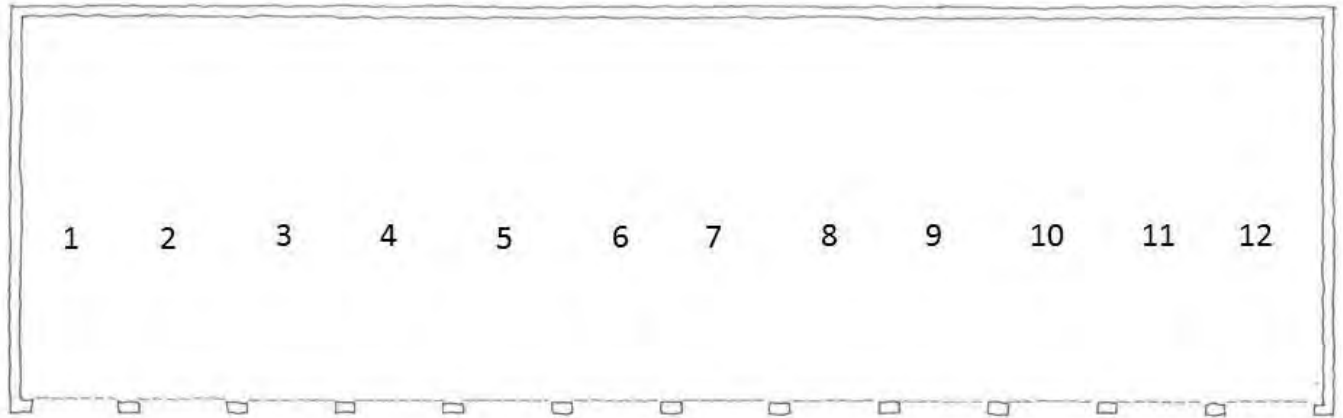


Building C



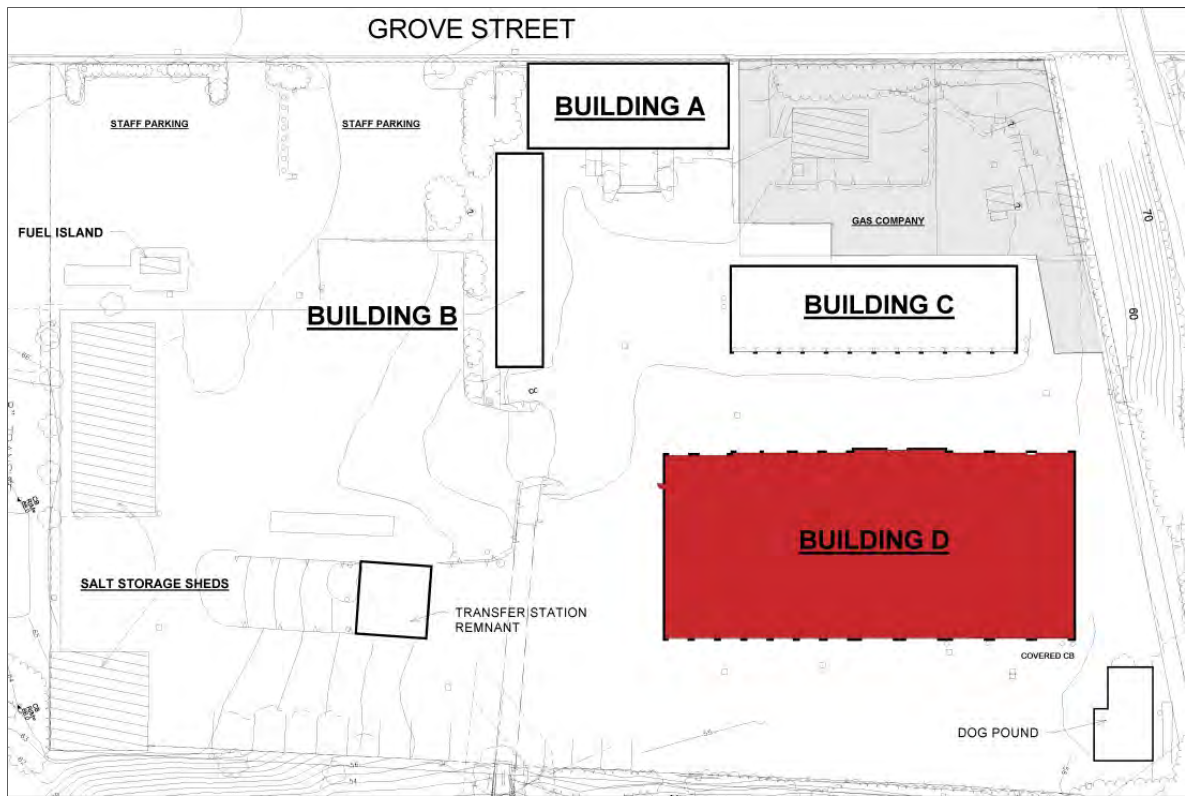
Building C roof after a rainstorm, viewed from Building D roof.

The roof of Building C is reported to be original. Given the membrane's age, the probable minimal thickness of insulation, replacement of the insulation, membrane and flashing at this time is prudent.



Existing Ground Level Plan of Building C

Ground Level: This large garage building is used only for storage of the fleet's snow fighters and their plows. Currently they are stored with their plows attached though there is room for their plows to be stored on the floor at the back of each parking space in the off-season. There are twelve bays in the garage and each of them is used for vehicle storage, with the exception of bay 1 which houses a waste oil-fired heating system.



Location of Building D

Building D: This large garage building on the site is comprised of the original 1914 “Power Building” and a number of later additions, the most recent being constructed in 1977. The building is constructed of brick masonry with concrete trim. The masonry appears to be in relatively good condition except for some efflorescence. There is a fair amount of exposed concrete cracking and deterioration, particularly around the windows, and at the top of exterior walls. There exists some damage to the brickwork around the garage bay openings, most likely caused by vehicle impacts.



Damaged brick at the maintenance bays of Building D. Concrete window headers show wear; signs of water damage evident.

The 1914 portion of the building distinguishes itself from the rest of the structure with its prominent pitched terra cotta tile roof. From the interior of the building it is apparent that much of the wood roof

plank sheathing underneath the tiles is severely deteriorated. The South side of the roof was recently replaced for this reason. During that repair the sheathing was replaced and the terra cotta tiles were replaced with an elastomeric roofing membrane.



Split and cracked boards under the historic tile roof.



Good tile condition on the North side of the building.

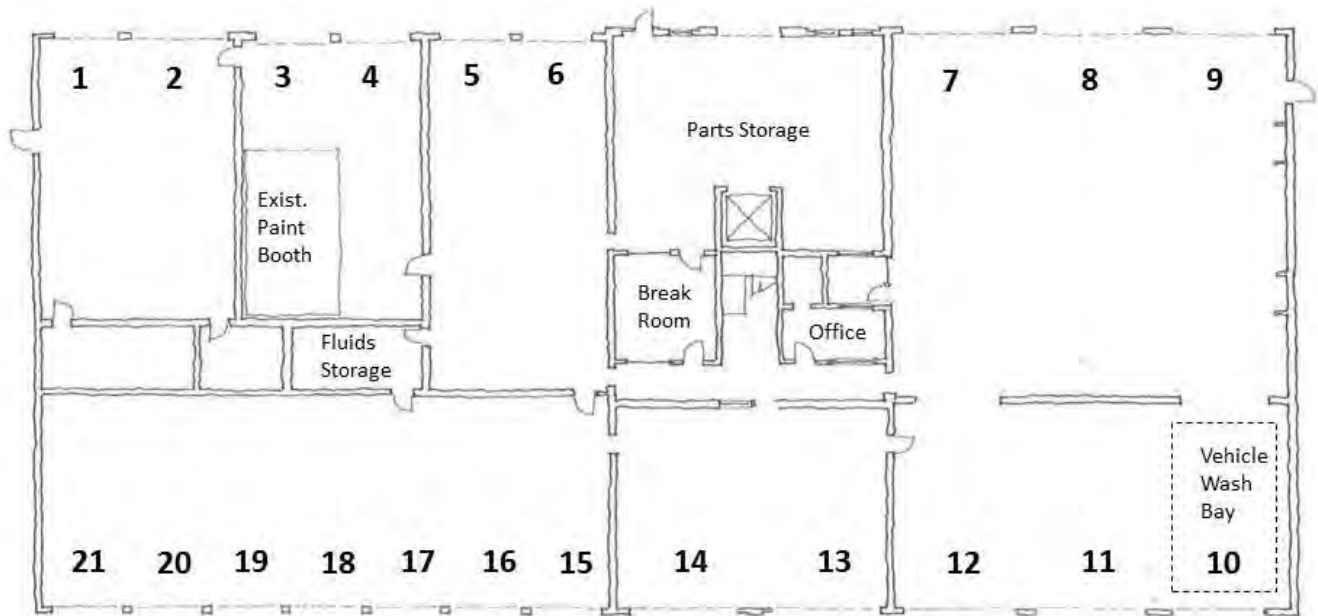
A new elastomeric roof membrane was recently installed on the flat roof over bays 7-12, at which time the adjacent deteriorated masonry wall concrete coping was replaced. Limited masonry repointing has been completed.



Ponding water on the old roof.



Recently replaced roofing and coping.



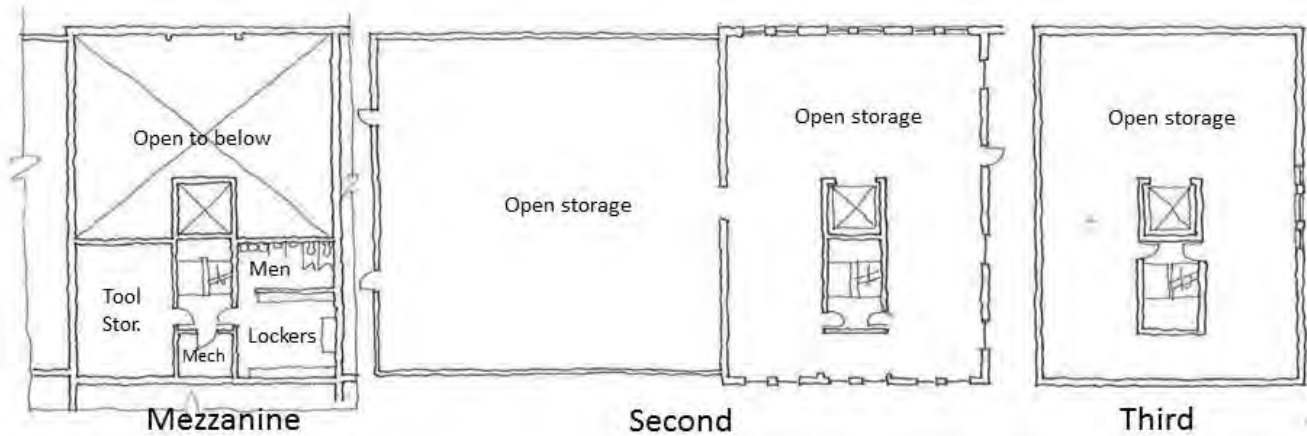
Existing Ground Level Plan of Building D

Ground Level: The ground floor of Building D consists of twenty-one garage bays used by the DPW, the Maintenance Supervisor's office, support spaces, a large parts storage room, plus an elevator and stair serving the upper floors. While many of these bays are used for maintenance, a number double as vehicle storage space in the evenings. Many of the bays are used for miscellaneous repair activities with work benches and parts placed with no obvious plan for organizational efficiency.

Bay 3 was at one point fitted out with a paint booth, which is no longer used for this function. A manual vehicle wash system was installed in Bay 10, equipped with curtains that were intended to minimize overspray. The wash equipment is not currently being used because of the negative impact on repair functions. Instead, the bay is being used as a make-shift paint bay, although it lacks the proper ventilation to accommodate this function properly.

The maintenance foreman's office is within the core of the building and lacks direct vision into the maintenance area, limiting supervision of the space and employees. A large break room is located along the same corridor that includes a small kitchenette. Employee toilet and shower facilities are located on a mezzanine level between the ground and second floor. It includes a small locker room, toilet facilities and showers for maintenance staff.

A very large room between bays 6 and 7 is designated for parts and tire storage, but effective use of the space suffers from a lack of organization, appropriate storage racking, and an overflow of parts.



Upper Levels of Building D

Mezzanine: The mezzanine level, located above the large Parts Room, houses employee toilets, lockers, and the elevator machine room.

Second Level: The second level of the building is accessible by both stairs and a large freight elevator. It is used exclusively for storage by the many divisions of the Department of Public Works and also suffers from a complete lack of organization. Initial observation suggests that most of what is stored on this level should be discarded. In total, the second level has the potential to store a tremendous amount of equipment and supplies for the department if it is organized correctly.

Third Level: The upper level of this building is also used for storage though it also lacks the organization needed for the space to be used efficiently.

BUILDING SYSTEMS:

Building A:

HVAC Systems: The offices of Building A are served by a single zone, gas fired, packaged DX roof top unit (RTU) that provides both heating and cooling throughout the second floor. The RTU is operational and was part of renovation in the late 1990s. In addition to the RTU, a hot water heating system, via gas fired boiler, provides heat to the street level shop and storage areas, as well as supplemental heat to the 2nd floor offices. The shop areas are provided with several hot water unit heaters. All hot water piping appears to be 50 to 60-years-old. There are two Buderus boilers allowing one to serve as a back-up in case of failure.



Building A's boilers



Heaters located in the Sign Shop of Building A

The sign and sewer shops are not equipped with any kind of ventilation system for adequate exhaust of shop dust or paint fumes. Storage areas are partially below grade, with noticeably high humidity and are also not equipped with ventilation.

Electrical System: The facility is fed from pole (Building A) and pad mounted transformers (Building D). These transformers are fed via primary overhead feeders (Building A) and underground (Building D).

The secondary service entrance conductors are run overhead/underground to various outbuildings and sheds including the Building D, Building C, and Building B, dog pound, and fuel pumps.

The main service fused disconnect switch of Building A is manufactured by Federal Pacific and is rated at 400A, 208Y/120V, 3-Phase 4-Wire. There is a utility CT cabinet adjacent to the main service disconnect switch with the utility meter located in the same room on the adjacent wall. The area in front of the main service disconnect and distribution was blocked by work cabinets and tables in violation of Massachusetts Electric Code (MEC) Article 110.26(A)(1). See picture below:



Building A electrical panels in entrance of Sewer Shop.

Lighting: (Interior) The office area of this facility consists of surface and recessed mounted fluorescent, acrylic lens fixtures. Lighting control throughout the building is comprised of manually operated, local toggle switched. There were no occupancy sensors or other automatic lighting control equipment installed. This is in violation of the Massachusetts State Building Code section on Energy Efficiency (Chapter 10).

(Exterior) Building A does not have any mounted exterior lighting. Existing lighting is limited to town-owned street lights.

(Emergency) The facility's emergency lighting consists primarily of incandescent exit signs with battery back-up power and non-illuminated signage. Non-electric exit signs do not illuminate upon loss of power and there is no emergency lighting fixture located nearby to illuminate the signage during this condition. This condition is in violation of Massachusetts Building Chapter 10 – Means of Egress.

Plumbing System: Building A has one set of bathrooms on the street level of the building that service the office areas. The workshops share a bathroom facility located in the sewer shop on the ground level. There is only one bathroom in this location and it does not meet current accessibility requirements.

No emergency eyewash stations were found within Building A's shop areas. These eyewash stations should be installed with a tempered water supply and are required by the Massachusetts State Building Code.

Fire Alarm: The facility currently does contain a fire alarm system. The sprinkler system has water flow switches located at the service entrance points to each building, which transmits an alarm to the fire department through the building mounted Master Box, which is tied to the City's municipal loop. It does not appear that the sprinkler system is monitored or that annunciation is provided throughout the facility in violation of Massachusetts Building Code Chapter 9 – Automatic Sprinkler Systems. Annunciation appears to be limited to a bell and water motor gong located on the building exterior.

Building B:

HVAC: The 1st and 2nd floor office areas are served by a single zone gas fired, packaged DX Roof top unit that provides both heating and cooling on the second floor, and heating on the ground floor. The RTU was part of renovation in the late 1990s, which included the conversion of the 1st level from garage space to office space, and is operational. In addition to the RTU, a hot water heating system, via gas fired boiler, provides heat to the building via baseboard and supplemental cabinet heaters. All hot water piping appears to be 20 years old. There is no back-up boiler, so any failure of the existing boiler will result in shut down of the building.

Electrical: See site information described under *Building A: Electrical*.



Electrical panels located in Building B.



Fire Alarm panels located in Building B.

Lighting: (Interior) The lighting system for Building B consists of manually operated toggle switches. In the updated offices, renovated in 2009, motion sensors are installed to meet the Massachusetts State Building Code requirements for energy efficiency in Chapter 13.

(Exterior) Building B does not have any exterior mounted illumination besides the town operated light poles located in the visitor parking area.

(Emergency) A mixture of self-illuminating exit signs with battery powered emergency back-up units and non-illuminated signage are installed in the building. Non-electric signs are in violation of Massachusetts Building Code Chapter 10 as they do not illuminate the means of egress in case of an emergency.

Plumbing: Building B has two sets of bathrooms, each servicing their respective floors of office space. Both of these sets of bathrooms were installed during the 2009 renovation of Building B and are handicapped accessible. Bathrooms located on first level of the building, accessible to the Yard are shared by the Highway Department staff and are single bathrooms.

Fire Alarm: See fire alarm system description located under *Building A: Fire Alarm*. The fire alarm panels are located in the ground level of Building B.

Building C:

HVAC: Building C is a heated garage equipped with a waste oil heater.

Lighting: Building C's lighting consists primarily of fluorescent, high-bay type fixtures.



Waste Oil Heater in Building C



Overhead lighting in Building C.

Building D:

HVAC: The maintenance garage is broken into several work areas with varying levels of HVAC equipment and needs. The building is primarily heated via gas fired unit heaters. However, a waste oil recovery heater similar to the one used in Building C is also utilized and provides a substantial amount of heat to the vehicle maintenance area. Some unit heaters are located close to combustible materials.

The Workshop area is equipped with a general exhaust fan which is used during welding operations, without means of mechanical makeup air for the exhaust. The office areas have a wall AC unit for summer cooling and air transfer grilles for heating. There is no fresh air supply for the office. None of the exhaust fans were operating.



Unit heater on level two of Building D.

The maintenance bays used for vehicle maintenance are equipped with vehicle exhaust systems. The exhaust fans are operational. The bay areas do not have carbon monoxide / dioxide monitoring tied into control of rooftop exhaust fans. The Second floor stair areas are provided with heat only and no

ventilation.



Vehicle Exhaust and Ductwork



Oil/hazardous material storage lacks an exhaust system or explosion-proof fixtures.

An existing paint bay exists within Bay 3 of Building D that requires decommissioning. The room is not properly ventilated for current paint safety requirements and has not been used in many years.



Existing decommissioned paint bay (3) located in Building D

Electrical: Building D's electrical system is tied to the other buildings on the site as described in section *Building A: Electrical*. The electrical distribution is comprised of panel boards of several different manufacturers (i.e. Yankee Electric, General Electric and Federal Pacific). In all the buildings power distribution is in poor condition and has reached the end of its useful life. Many circuits are overloaded, mislabeled, and exposed Romex (non commercial code) wiring is located throughout the facility. No evidence of GFI, arc flash or updated breakers were present. Many panel covers were removed or missing, which is a code violation. See picture below:



Building D electrical panel under first floor central stairs.

The maintenance facility in Building D does contain an emergency generator. The generator is gas fired and is an indoor unit, 150Kva. Although it is not large enough to back-up the entire facility, many circuits are connected to “critical” loads, such as site lighting, building lighting, and shop power. Based on the information available, the generator did not appear to provide any backup power to the office buildings. The generator is estimated to be 25-30 years old. See picture below:



Building D's gas fired generator.

Lighting: Building D's lighting consists primarily of fluorescent, high-bay type fixtures. In general, light levels appear insufficient for the function and activity of the areas served. The overall condition of the interior lighting is poor and proper switching and control was not present; the lighting is controlled by breakers in several areas, which is a code violation. See picture below:



Local heating units mounted in Building D.

(Emergency) The interior and exterior portions of the maintenance facility do not contain any emergency lighting. The lack of emergency lighting through the egress corridors and at egress exits/exit discharges is in violation of Massachusetts Building Code Chapter 10 – Means of Egress.

The facility primarily contains incandescent type exit signs with integral battery back-up and non-illuminated exit signs. There were several areas without visible exit signs within Building D. Non-electric exit signs do not illuminate upon loss of power and there is no emergency lighting fixture located nearby to illuminate the signage during this condition. This condition is in violation of Massachusetts Building Chapter 10 – Means of Egress.

Plumbing: Makeup water supply for the boiler is equipped with a backflow preventer, as required by code. Wash stations for vehicle cleaning are also protected by backflow preventers. The wash bay has a trench drain system that had standing water in it at the time of our survey. We were unable to determine if this was due to drain plugging or improper pitch of the trench drain. The wash bay drainage system is equipped with a code required oil/water separator system with proper access for cleaning. Floor drains in other bay areas are not capped to prevent accidental discharge of vehicle fluids. An oil/sand interceptor could not be located that would have served the maintenance garage drains. The maintenance bays are also equipped with a compressed air distribution system for pneumatic tools with a relatively new air compressor

In Building D, there were many leaking pipes and standing water in several locations, some in front of electrical apparatus. The mezzanine level had one men's toilet facility and women's toilet facility that has been out of use for some years. The women's facility was not accessible for viewing.

Fire Alarm: The facility currently does contain a fire alarm system. The sprinkler system has water flow switches located at the service entrance points to each building, which transmits an alarm to the fire department through the building mounted Master Box, which is tied to the City's municipal loop. It does not appear that the sprinkler system is monitored or that annunciation is provided throughout the facility in violation of Massachusetts Building Code Chapter 9 – Automatic Sprinkler Systems. Annunciation appears to be limited to a bell and water motor gong located on the building exterior.

The buildings are equipped with an automatic fire protection sprinkler system. It appears that all areas of the facility have sprinkler coverage. The sprinkler risers are not equipped with code required backflow preventers. The piping systems are antiquated, and contain many $\frac{3}{4}$ " run outs no longer allowed by code, especially in Building D. No evidence of proper drain down piping could be found in Building D; routine maintenance to keep the pipe free and clear was not evident. Certain areas of Building D, such as sprinkler heads, have been painted.



Building D's sprinkler system is in need of updating.



Numerous electric water heaters provide water to hand sinks and fixtures throughout the site.

RECOMMENDATIONS

The DPW yard presently does not serve the Department well. It is apparent that the current conditions are the result of a variety of factors, including: deferred maintenance; the lack of a clear overall plan for site/building usage; changes in Department operations that have not resulted in appropriate modifications to the physical plant; and imposition of activities and facilities of other Town departments onto the DPW site.

Existence of the abutting gas company facility along with its access easement into the heart of the DPW site, coupled with environmental restrictions placed on the site (arising from historic gasification activity) severely limits the Department's ability to modify the ground surface to improve grading or site drainage, making the current conditions even more problematic for the Department.

Based on our observations and discussions with Department staff, we have the following recommendations for site and building improvements:

Site Improvement Recommendations

(See attached Site Plan)

A. Relocate school buses to another site:

Location of School Department vehicles on the DPW yard site has a significant negative impact of the operations of DPW. As a first priority we recommend that all School Department use of the DPW Yard be relocated to another site.

Vehicular circulation associated with school bus activity (drivers' arrival/departure for the morning and afternoon shifts; buses leaving/returning for the morning and afternoon shifts) creates numerous operational and safety conflicts with DPW activities. Usage of the current DPW parking lot by bus drivers (twice a day) limits the Department's ability to create a controlled, secure and safe parking area for their staff and visitors, and taxes an already minimally adequate parking area.

Bus parking on the DPW site creates impediments to efficient flow of DPW vehicles, and limits the Department's ability to "stage" vehicles and materials in anticipation of pending activities. In addition, any School Department vehicles parked adjacent to Building C must be temporarily relocated whenever a Gas Company tanker truck arrives to deliver product to their adjacent facility, which significantly limits DPW staff's ability to move their own vehicles or materials about the site.

Use of the DPW yard by school buses also prevents the Department from securing the yard during non-working hours, which means that vehicles and stored materials are vulnerable to theft and damage.

B. Reduce High School-associated vehicular / pedestrian circulation through the DPW site:

The Grove Street frontage along the north-west portion of the DPW Yard is currently used by residents as a student drop-off / turn-around area and access to the adjacent High School grounds. The intended use of this portion of the Yard is for DPW employee parking, as well as a Town vehicle fueling station. Mixing of these activities creates substantial opportunities for conflict and accidents.

If it is judged necessary that this access be maintained, an improved layout of that portion of the site should establish a definitive, fence-line separation between DPW activity and school-related usage. It is our recommendation that there be a limited curb-side student drop off zone along the south edge of Grove Street, and a pedestrian path connecting to the High School property.

C. Redesign DPW employee and visitor parking:

The DPW employee parking area should be redesigned to take maximum advantage of the available land, with attention being given to determining vehicle turning requirements for use of the fueling station by Town vehicles. Visitor parking should be located as close to Buildings A & B as possible, and at least one accessible space provided.

D. Make improvements to fueling station:

It is recommended that the existing canopy be substantially enlarged to provide better protection for users and the surrounding pavement during storm events. A new canopy should be sized to cover the entire concrete pad, all the way back to the existing wall adjacent to the salt shed, and be sloped to shed storm water to the shed side of that wall, thus eliminating the need for new catch basins around the fuel island.

E. Demolish old Transfer Station Building:

The concrete and metal panel Transfer Station building is not being effectively utilized, and is an impediment to use of the site. To the extent that is allowable within the site limitations imposed by Mass EPA, it is recommended that the existing structure be demolished and replaced with pavement to allow additional bulk material storage or vehicle/equipment parking. Consideration should be given to installing canopies in this area to provide covered storage for concrete block, brick, and other materials that need to be protected from the elements.

Given the grade changes around the existing building, some existing walls should be left in place to act as retaining walls. Detailed investigation of the existing transfer station will be required before definitive plans can be developed.

F. Build suitable dump areas for vacuum trucks and street sweepers:

An appropriate curbed dump area is needed to receive and contain material collected by drain vacuum trucks and street sweepers, so liquids can be allowed evaporate rather than draining into Mill Brook, and remaining solids can be properly disposed. The below-grade concrete vault which houses the vehicle scale previously used for transfer station activities is a logical candidate for conversion for this use

G. Remove "temporary" trailer:

The existing trailer located at the east end of Building D, which originally was used by the Fire Department during the renovation of one of their facilities, should be removed from the site as it is an impediment to DPW activities. The trailer is now being used as an office by the Town's Animal Officer.

H. Address the deteriorated Animal Pound:

The existing Animal Pound is severely deteriorated, and should be demolished. If it decided that the Animal Officer's work place is to remain at the DPW Yard, an appropriate new office / animal holding

facility should be constructed, probably in the same location. Given the incompatibility of uses, it is recommended this operation be relocated to another site.

I. Canopy storage:

The western edge of the site is enclosed by a field stone embankment which supports the elevated Minuteman Rail Trail. This area is currently used for open storage of a variety of bulk materials, including large diameter plastic pipe. In order to better utilize this area, and to protect the integrity of the stored materials, a canopy structure with racks should be constructed along this embankment to allow for more organized storage, and to protect materials from the elements.

J. Yard Drainage:

The existing yard drainage system, as shown on the 1977 Yard Reconstruction drawings, consists of three drain lines connecting roof drains for Building C and D and yard catch basins to gas traps that were installed as part of that project. The gas traps feed treated effluent into the Mill Brook culvert that bisects the site. It is critical that those drainage structures be maintained properly to assure that storm drainage is properly treated and disposed.

K. Mill Brook Culvert:

The existing Mill Brook culvert shows signs of significant deterioration where it is open to view. The entire length of culvert should be investigated for structural integrity, and appropriate repairs (potentially relining) to assure the longevity of the important water course.

L. Emergency Snow / Debris Storage:

Provisions are needed for adequate off-site temporary storage of snow and weather debris. The Yard does not have the capacity to support this function.

Building Modification Recommendations

All Buildings:

It is recommended that the number of employee break rooms located within the operating units be sharply reduced, and that most, if not all, all employee facility functions (toilets, lockers, showers, break rooms) be consolidated to the first floor of building B. The existing satellite rest rooms should be brought to a condition of good repair. However, from an organizational perspective, the Consultant believes that the first floor of Building B should be where the work day starts, and all staff meetings / training are conducted. As noted below, Building B is currently too small to support gathering of more than a hand-full of staff, so it is recommended that the ground floor be expanded to support Department-wide activities.

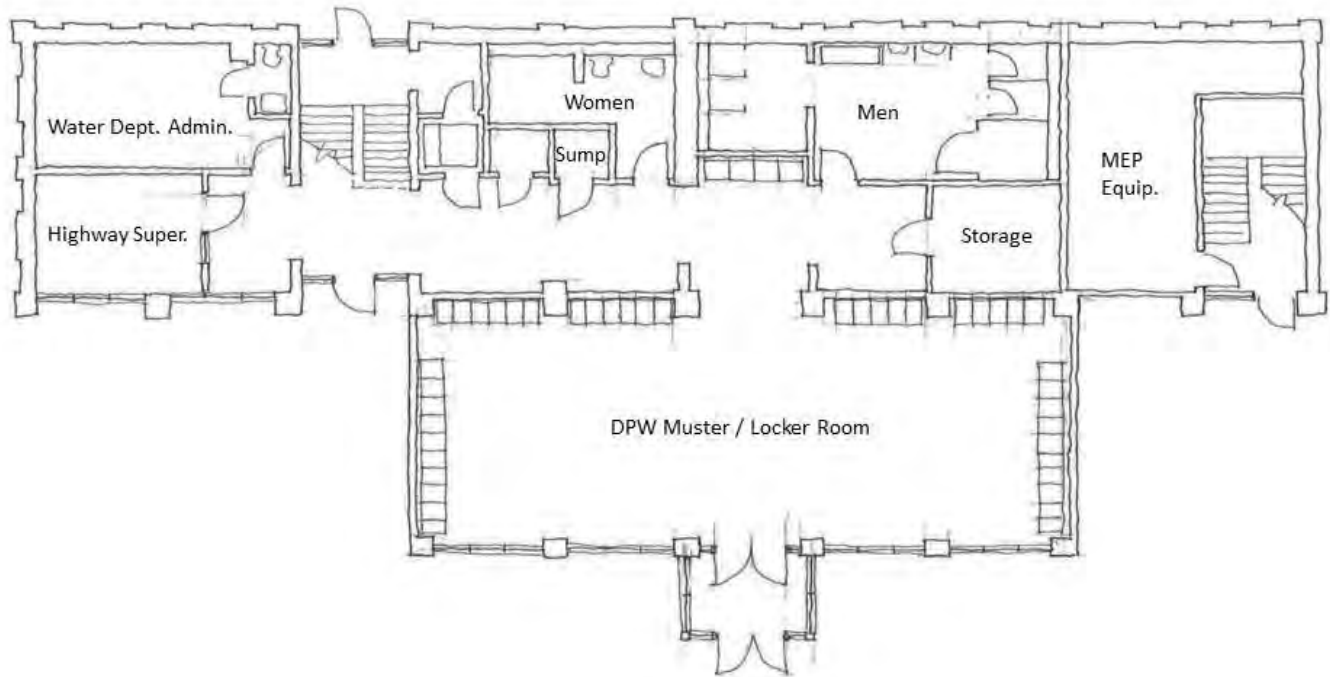
It is recommended that the extensive, widely varied materials currently stored in all buildings be catalogued and prioritized for storing on site for near-term use, storing on site for long-term use, or disposal / sale. It is further recommended that the upper portions of Building D be converted into the central long-term storage facility for the entire Department.

Building A:

It is recommended that the existing staff toilets at the ground floor be refurbished within their existing

footprint.

Building B:



Proposed addition and reorganization for the ground level of Building B.

As noted above, it is recommended that a central employee locker / shower / toilet room facility be developed within the lower level of Building B, where the existing Highway Supervisor's office and break room are located. These would supplement the existing handicapped toilets at this level, which are not adequate to support Department staff levels. Employee lockers would be consolidated along the window wall. At the south end of this floor, the bay where the Water Department office is currently located would be reconfigured to provide an office for the Highway Supervisor, which would have visual access to the Yard, along with a break / muster room. This reconfiguration would create a centralized location for trade staff to gather at the start of every work day.

There is considerable brick efflorescence on the upper portions of the west façade of Building B, which is currently being addressed by a roof repair project.

Building C:

It is recommended that the roof insulation and membrane be replaced and that missing vision panels on existing overhead doors be replaced. When the roof membrane is replaced the deck should be inspected for condition.

Building D:

Repair Recommendations

The roofs of Building D are a major source of maintenance issues. The pitched roofs suffer from lack of

attention, and will need to be addressed in the short term to avoid significant failures. As was noted previously, the south facing portion of the one section of the original roof was recently replaced, since water infiltration has rendered the wood plank sheathing unstable. The original terracotta tile roof finish was not reinstalled or replaced. Instead an elastomeric roof membrane was installed in its place to affect a cost efficient and timely repair. Given the observed condition of the remaining sheathing, replacement of the remaining roof will need to be scheduled for the near future.

The membrane on one of the existing flat roofs was recently replaced. All of the other flat roofs show considerable evidence of age, and should be replaced in the short term.

Portions of the exterior masonry wall coping along the east and west facades were replaced recently. Remaining sections of coping should be examined when the roof membrane/insulation assembly is replaced. Again, consideration should be given to working with the Historic Commission to seek grant funding for this work.

There is some limited evidence of brick efflorescence elsewhere around Building D which indicates water infiltration into the wall assembly, either through a failing roof membrane/flashing, a failed wall coping, or due to failed mortar joints. Repointing of these walls may qualify for grant funding through the local Historic Commission.

Fleet Maintenance Operational Overview & Recommendations

An evaluation of the current fleet operations was conducted based on our understanding of a set of industry standards known as Vehicle Equivalences (VEs). A Vehicle Equivalency is an industry metric used to determine proper staffing of a fleet based on its size and vehicle types of which it is comprised. To give some basis of understanding for the purposes and context of this report here are some VE examples:

- A standard sedan is counted as 1.0 VE, with the VE representing the time necessary to maintain this vehicle.
- By comparison, a two-ton truck will rate a 2.5 VE as it takes 2.5 times the labor effort to maintain than a standard sedan.
- A backhoe is typically 4.0 VE's meaning it takes four times as much labor effort to maintain as a standard sedan.

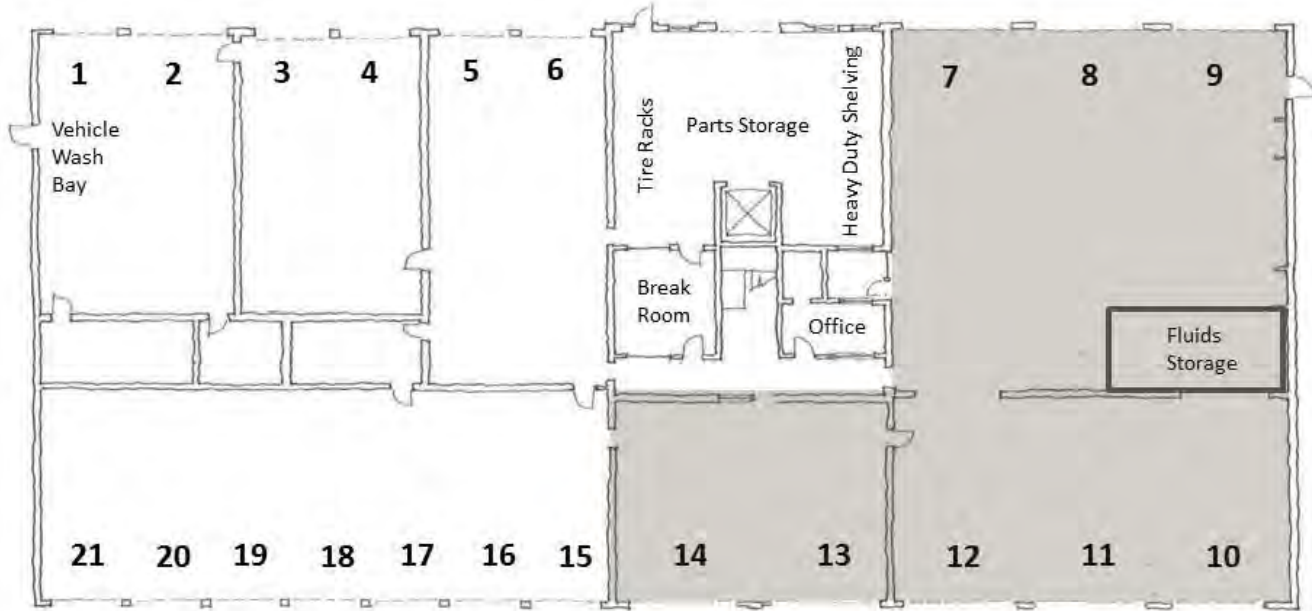
It is by examining the VE of an entire fleet in this manner, that the number of staff and suggested number of maintenance bays can be determined.

Maintenance/Repair Functions

The DPW fleet consists of a vehicle and equipment count of approximately 154 pieces of rolling stock and small engine equipment. This amounts to a Vehicle Equivalence of 260.0 total, or 52.0 for each of the fleet's five mechanics.

Currently, the fleet repair operations are occupying thirteen garage bays in Building D. By using the industry standard ratio of 1.5 repair bay per mechanic, it is recommended that number of bays be reduced

to eight. We recommend that the eight bays on the North East side of the building (Bays 7-14) be used exclusively for fleet repair and the remaining bays in Building D be used for vehicle and equipment storage. The temporary wash bay in Bay 10 will need to be relocated to another bay.



Bays 7-14 of the existing plan should be dedicated to maintenance.

Maintenance Bay Lifts

The surface-mounted vehicle lift (bay 11) appears to be no longer suitable for safe usage, and should be immediately taken out of service. The pit of the existing in-ground twin-post vehicle lift in Bay 6 leaks. This condition has damaged the lift and creates an environmental maintenance concern as the pit collects contaminants that need to be regularly cleaned manually. It is recommended that these pits be cleaned out and filled with concrete to make them inoperable.

The purchase of a four-axle portable lift with a total lifting capacity of 64,000 lb. is recommended, to replace the function of both of these existing lifts.

Fluid Storage

The current location for the oil distribution room is too far removed from the maintenance bays for efficient use. The existing room is not properly ventilated, and does not meet the requirement to be explosion proof as it is missing a ceiling. It is further in violation of code by the use of incandescent lighting in the room instead of the required explosion proof light fixtures.

Upon reorganization of Building D, it is recommended that the oil distribution room be relocated to an area directly accessible from the maintenance bays .

Throughout the building and site, numerous 55 gallon drums of unknown fluids were located. Some of these drums are starting to leak and are cause for concern, especially with the drainage issues present on the site. It is recommended that these drums be disposed of by a hazardous materials service such as

Clean Harbors or Waste Management.

Vendors for Special Services

It was determined from staff interviews that the Town currently makes only limited use of outside vendors to perform special repairs and services. Based on the Consultant's experience, a well-run municipal fleet typically outsources 15% of the cost of maintenance repairs to local vendors. Usually outsourcing includes painting of vehicles, as it is a major cost to the town fit-out a code-compliant facility and complete staff training to do painting in compliance with current regulations.

Building D has an unused paint bay located in Bay #3 that needs to be dismantled and the wash bay in Bay #10 can no longer be used as a make-shift paint booth. Due to the code restrictions surrounding these facilities (MA 310 CMR 07, NFPA 33 2000), the Town can no longer be in the business of painting vehicles and equipment. Paint must now be water based and the cost of extensive training and protective equipment is prohibitive to this being a cost effective function for in-house repairs. The Town should also consider using local vendors for special repair work such a rebuilding engines and transmissions.

Parts Storage

Based on observations made during site visits and interviews with staff, it is has been concluded that the parts inventory for the facility well exceeds what is necessary to operate. There exists no inventory management system or means to process warranty claims when needed. The large parts storage room is unorganized and there is no way of knowing if the parts are all relevant to current vehicles within the fleet. Throughout the facility, especially in the upper levels of Building D, a large number of spare parts are strewn about and left in the open. These parts represent a high monetary value, well in excess of \$150,000. Due to the aforementioned site security issues, these parts are at risk for being lost, ruined or stolen from the property.



Parts Room on Level 1 of Building D.



Miscellaneous parts and equipment on Level 2 of Building D.

It is recommended that with the assistance of local vendors, such as NAPA auto parts, that an inventory of parts be completed and much of the stock sold or auctioned off to reduce clutter and generate income. Establishing a relationship with an auto parts vendor will help streamline the ordering process and keep parts inventory closer to the recommended valuation of \$50,000 for a fleet of this size.

The adoption of Fleet Max management system is recommended to keep routine fleet maintenance on a schedule and parts inventory in check.

Creating secured storage areas throughout the three floors of Building D will prevent theft and assist in keeping parts organized by department and need. Larger items that are difficult to move but require immediate access, such as tires, should be kept on the first level of the facility. Less frequently used and smaller parts should be given designated spaces on the upper levels of Building D, stored behind lock and key.

Parts Services Vendors

As previously mentioned, if the Town is intent on developing a better management system for their fleet's part needs, local NAPA stores have some options that can be of help.

1) NAPA has dedicated product manufacturer reps for all of their major product lines that can provide a complete fleet survey. They have a dedicated team of representatives that can survey the existing fleet: Heavy Duty, Heating and Cooling, Filtration, Underhood, Undercar, Brakes, Electrical Systems, Paint, Tools and Equipment, and Balkamp Accessories.

2) In addition, the NAPA stores have a software program called MIC (Marketplace Inventory Classification) that can be used to determine what a fleet should stock. This program is used at the store level when a customer provides NAPA a list of the existing fleet and the store can enter that list to build a list of parts that can be regularly stocked to provide better service.

Usually a NAPA store can provide this service to the Town if the Town is committed to buying parts from the store. If the Town wants to head in that direction, please let Weston and Sampson know and we will be glad to direct you to the NAPA store and management in your area to begin a successful relationship.

Building Reorganization Recommendations (Bldg. D)

As noted above, it is recommended that the bays allocated to vehicle / equipment maintenance be reduced to eight – bays 7 through 14 (see bays highlighted in green). That will allow better control and coordination of maintenance activities, and will release other bays for vehicle and equipment storage.

It is recommended that maintenance fluids storage room be relocated from the room between bays 4 and 17 to a new location between bays 9 and 10. A new fire-rated enclosure will be constructed to make this room code compliant, and ventilation provided to the outdoors. The existing fluids storage room can be converted to storage uses.

The existing paint booth should be removed from bays 3 -4, and the existing pressure washing system now located in bay 10 relocated to 1-2, which will do double duty as wash bays and vehicle storage. A metal catwalk, with enough washer hose length, would allow for more thorough cleaning of vehicles.

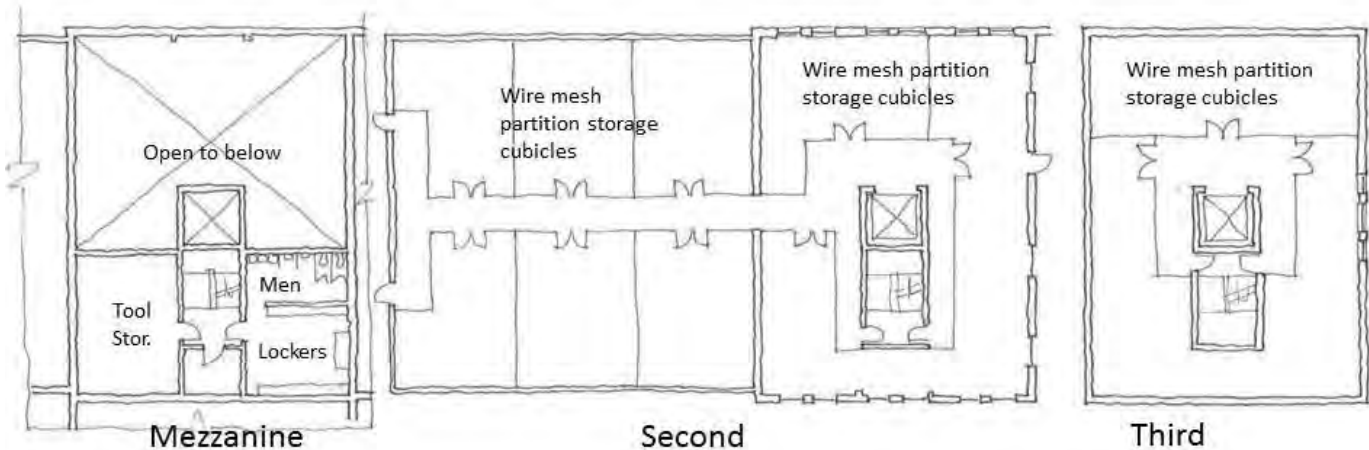
Given the lack of code-compliant ventilation equipment, it is recommended that any vehicle painting be sent to outside vendors.

Archive drawings provided to the Consultant show that bays 5 / 6 were previously used for tire storage. It is our recommendation that these bays be returned to that use once the vehicle maintenance functions are consolidated into bays 7-14. The ground floor level with OH door access makes this space ideal this type of storage.

It is recommended that the adjacent first floor parts room (between bays 6 and 7) be equipped with heavy duty shelving, and used for storage of large and heavy items that are not easily handled in the elevator. This room should be organized to maintain suitable access to the freight elevator to allow pallets of materials to be taken to the upper levels. Ideally the height of this room can be taken advantage of with high-bay storage shelving, but equipment suitable for safely lifting materials would be required.

The mezzanine is currently used for employee washrooms. These functions should continue, and refurbishment of those rooms should be allowed under the Existing Building provisions of the Building Code (Chapter 34) without the need to upgrade them to handicapped accessibility.

It is recommended that the 2nd and 3rd floors be organized with a series of lockable wire partition cages for organized storage of Department-wide smaller parts, smaller equipment and consumables to be taken to the upper levels. Corridors of adequate width should be arranged between the wire partitions in order to maintain code required emergency egress.



Proposed storage layout of Building D, Level 2 & 3.

Building Systems:

HVAC Systems:

For continued use of this facility, the Consultant recommends replacement of all existing HVAC systems except for boilers serving buildings A & B, and the RTU in building B. Other than the RTU, systems in Building B were installed during the late 1990s as part of a rehabilitation project, so the priority for replacing that equipment is less than elsewhere in the Yard. However, energy codes have changed substantially since this equipment was installed, and efficiency of equipment available today is improved.

Consequently, the master plan for upgrade of the Town Yard should include replacement of the remaining HVAC equipment in Building B.

For the office area, we would recommend a new energy efficient variable air volume (VAV) system with individual room temperature controls. Unit heaters and/or unit ventilators would be provided for the shop areas, as well as improved exhaust and ventilation systems.

For continued use of the maintenance building facility, RDK recommends replacement of all existing HVAC systems, and the installation of code compliant ventilations and heating systems. Items located within this area appear to be unsalvageable.

Electrical System:

Overall, the entire facility's electrical systems have reached the end of their useful lives. Any substantial future renovations made to this facility will require a complete electrical upgrade, which should include, but not be limited to, the following: new normal interior and exterior lighting fixtures, new automatic lighting control systems, new life safety systems (i.e. emergency lighting and fire alarm) and a completely new power distribution system.

An increase to the utilities electrical service will be determined upon the available power consumption data and extent of future building renovations.

Plumbing Systems:

The facility is in need of additional restrooms, locker and shower facilities. New restrooms and showers would need to be handicap accessible.

Emergency eyewash/shower systems will need to be fed with tempered water, per current code requirements. This would entail the installation of new water heaters and a circulation system for all existing and/or new emergency stations.

Standing water issues in the maintenance garage and oil/sand interceptors would need to be addressed.

Fire Protection:

The existing sprinkler system would need to be retrofitted with new code approved backflow prevention devices. The existing coverage and sprinkler density would also need to be checked to ensure current code requirements. We would expect that a complete replacement would occur if any significant changes to floor layout occurs, and also due to lack of routine flushing/drain down, most piping would be deemed unreliable.

General:

The existing subsurface contamination conditions will dictate that the Activity and Use Limitation (AUL) placed on Town Yard, and MA EPA regulations related to participation by a Licensed Site Professional (LSP), be followed for any excavation on site required to implement utility of site upgrades. For this reason, it will be advisable to bundle any projects that require site excavation in order to economize of the special environmental requirements.

ANTICIPATED REPAIR / UPGRADE BUDGETS

<u>site/bldg/MEP</u>	<u>item</u>	<u>priority</u>	<u>budget</u>
MEP/FP	Fire Protection Repairs Bldg A	immediately	\$ 21,600
MEP/FP	Plumbing repairs Bldg A	medium term	\$ 138,240
MEP/FP	HVAC repairs Bldg A	medium term	\$ 336,000
MEP/FP	Electrical repairs Bldg A	medium term	\$ 163,200
MEP/FP	Fire Protection Repairs Bldg B	immediately	\$ 11,475
MEP/FP	Plumbing repairs Bldg B	medium term	\$ 58,650
MEP/FP	HVAC repairs Bldg B	medium term	\$ 147,900
MEP/FP	Electrical repairs Bldg B	medium term	\$ 76,245
MEP/FP	Fire Protection Repairs Bldg C	medium term	\$ 15,300
MEP/FP	Plumbing repairs Bldg C	medium term	\$ 54,400
MEP/FP	HVAC repairs Bldg C	medium term	\$ 136,000
MEP/FP	Electrical repairs Bldg C	medium term	\$ 61,200
MEP/FP	Fire Protection Repairs Bldg D	immediately	\$ 147,250
MEP/FP	Plumbing repairs Bldg D	medium term	\$ 519,250
MEP/FP	HVAC repairs Bldg D	medium term	\$ 1,302,000
MEP/FP	Electrical repairs Bldg D	medium term	\$ 604,500
Site	Relocate School Dept. vehicles	immediately	n/a
Site	Reduce High School circulation	medium term	included in S3
Site	Redesign / upgrade DPW employee parking	medium term	\$ 75,000
Site	Improvements to fueling station - new canopy	medium term	\$ 45,000
Site	Demo Transfer Station Bldg; grade and pave	medium term	\$ 78,250
Site	Repurpose scale vault for vactor truck dump	medium term	\$ 50,000
Site	Remove trailer	immediately	n/a
Site	Canopy storage	medium term	\$ 200,000
Site	Mill Brook Culvert Improvements	long term	\$ 300,000
Site	Maintain site drainage structures	short term	operating budget
Bldg - general	Prioritize/Reorganize stored materials	immediately	operating budget
Bldg A	Relocate Water Division office to Building A	medium term	\$ 24,000
Bldg A	Roof replacement	medium term	\$ 107,100
Bldg A	Masonry repointing	short term	\$ 30,000
Bldg A	Remove climbing vegetation	short term	operating budget
Bldg B	Combine HW supervisor and Water Admin	medium term	\$ 52,000
Bldg B	Construct new empl. toilets/showers/muster	medium term	\$ 407,680
Bldg C	Roof replacement	medium term	\$ 160,600
Bldg C	Replace OH doors with new insulated	medium term	\$ 114,000
Bldg D	Repair pitched roofs	medium term	\$ 175,000
Bldg D	Flat roof replacement	medium term	\$ 135,600

Bldg D	Masonry coping replacement	medium term	\$ 18,800
Bldg D	Masonry repointing	medium term	\$ 42,500
Bldg D	Deactivate in-ground vehicle lift	short term	operating budget
Bldg D	Purchase replacement 64K# 4-axle vehicle lift	immediately	\$ 100,000
Bldg D	Relocate fluids storage room	medium term	\$ 36,000
Bldg D	Remove decommissioned paint booth	medium term	\$ 5,000
Bldg D	Relocate pressure washer system	medium term	\$ 5,000
Bldg D	Heavy duty shelving (hi-bay), first floor parts room	medium term	\$ 10,000
Bldg D	Wire partition cages, upper floors	medium term	\$ 5,300
Bldg D	Replace OH doors with new insulated	medium term	\$ 209,000
Bldg C	Patch and paint ground floor slab	medium term	\$ 124,000
Bldg D	Patch and paint ground floor slab	medium term	\$ 340,000
Bldg A	Replace windows	medium term	\$ 78,000
Bldg D	Replace windows	medium term	\$ 68,000
Bldg A/B	Enclose / replace bldg connector	medium term	\$ 50,000
Bldg A	Repaint interior	medium term	\$ 30,600
Bldg C	Repaint interior	medium term	\$ 10,500
Bldg D	Repaint interior	medium term	\$ 85,250
	Raw Construction Cost		\$ 6,965,390
	GC OH + profit @	10%	\$ 696,539
	Bonds + insurance @	2%	\$ 139,308
	Design Fee / Contingency @	15%	\$ 1,044,809
	Construction contingency @	10%	\$ 696,539
	Anticipated Total Cost		\$ 9,542,584

EXHIBITS

Proposed Site Plan

Department Organization Charts

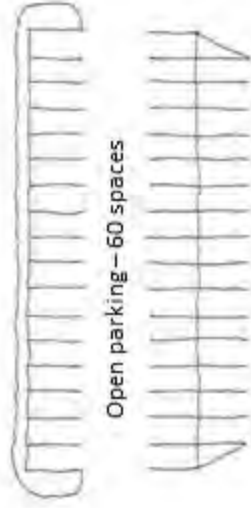
Department Fleet Listing

Mass DEP HAZMAT Release Reports

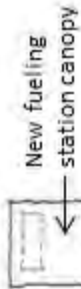
Loss Control Inspection Reports

Federal Historic Property Listing

Grove Street



Designated & visitor parking - 12 spaces

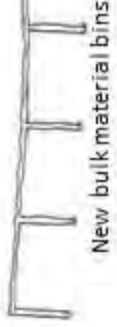


Lockable Gate

Rolling gate



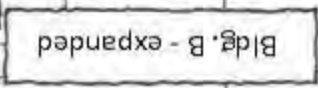
Vehicle scale vault converted to Vac. Truck Dump



Existing bulk material bins

Shallow canopy storage

Deep canopy storage



Gas Company Facility

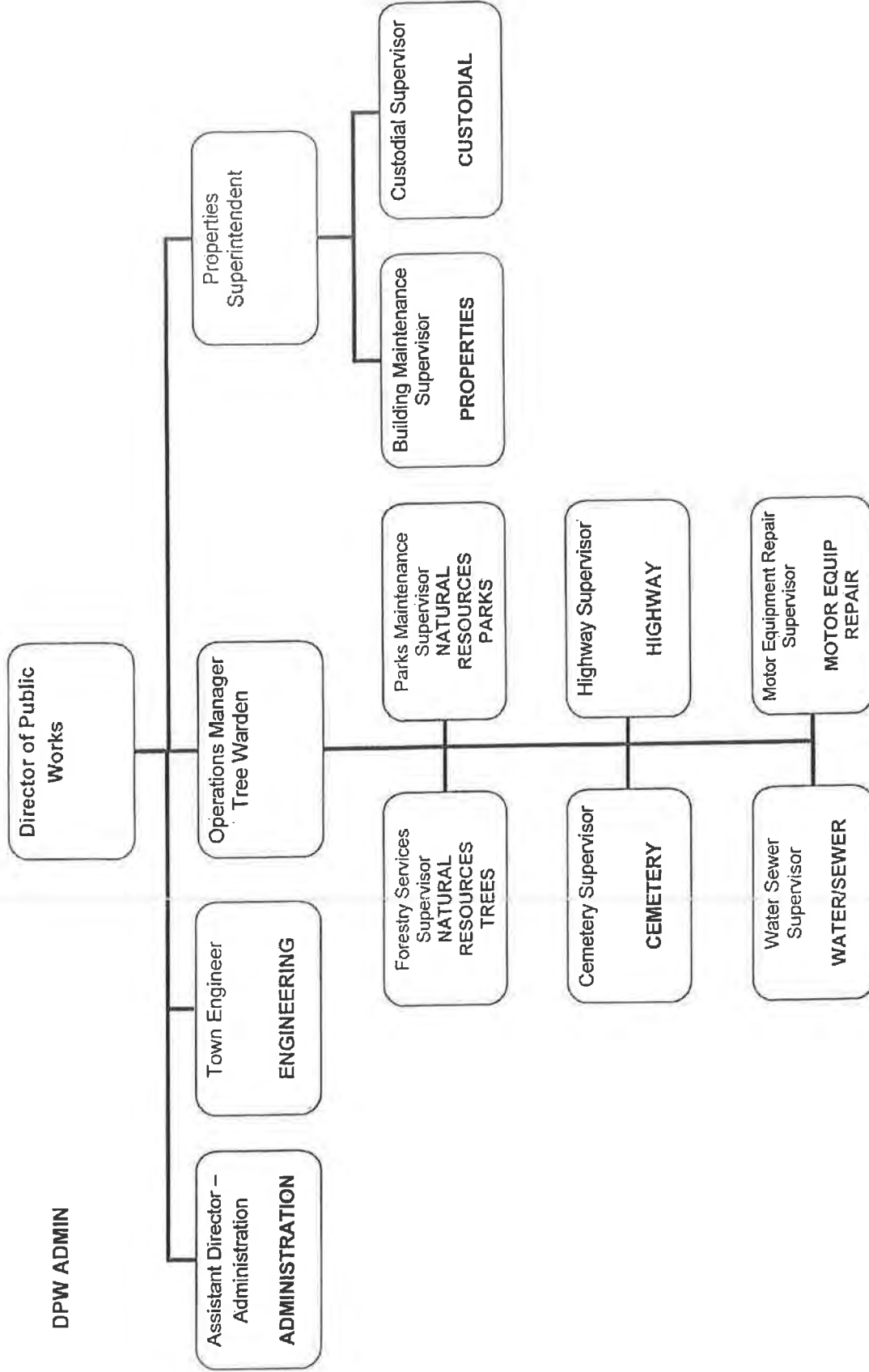


Proposed Site Plan

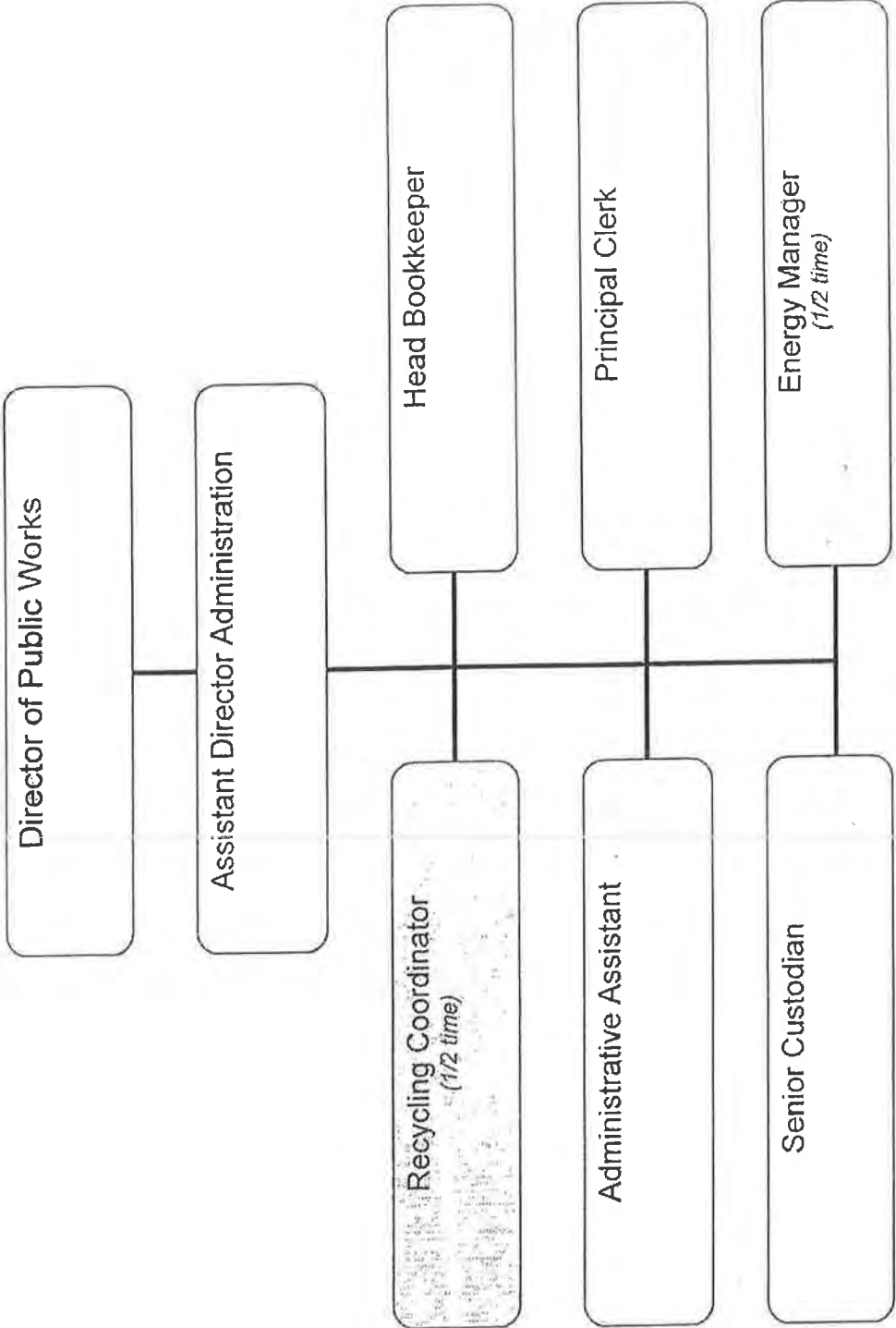
Arlington (MA) Department of Public Works
DPW Facility Existing Conditions Study

DEPARTMENT ORGANIZATION CHARTS

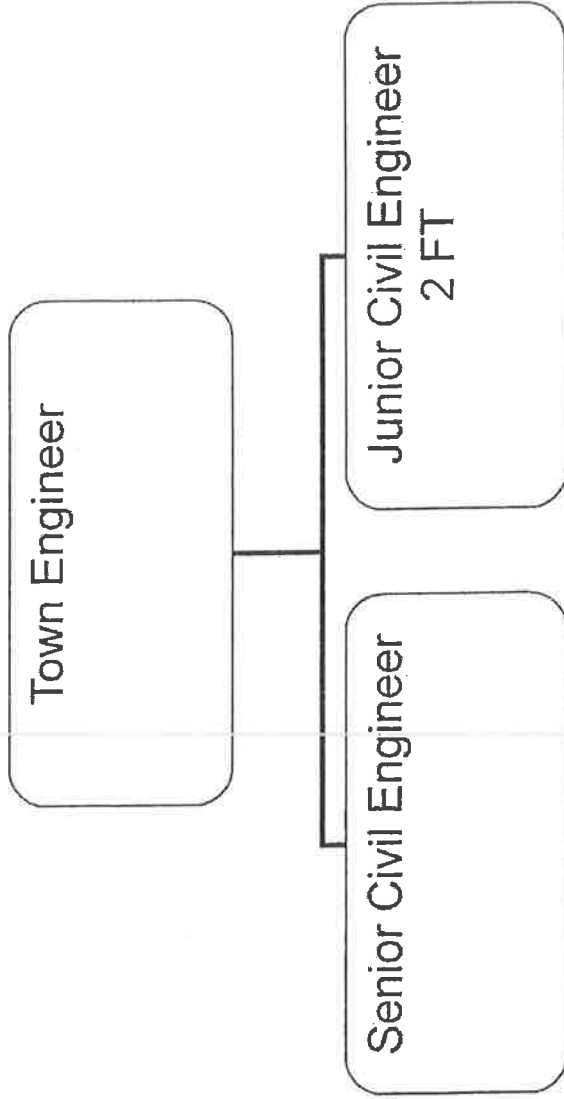
DPW ADMIN



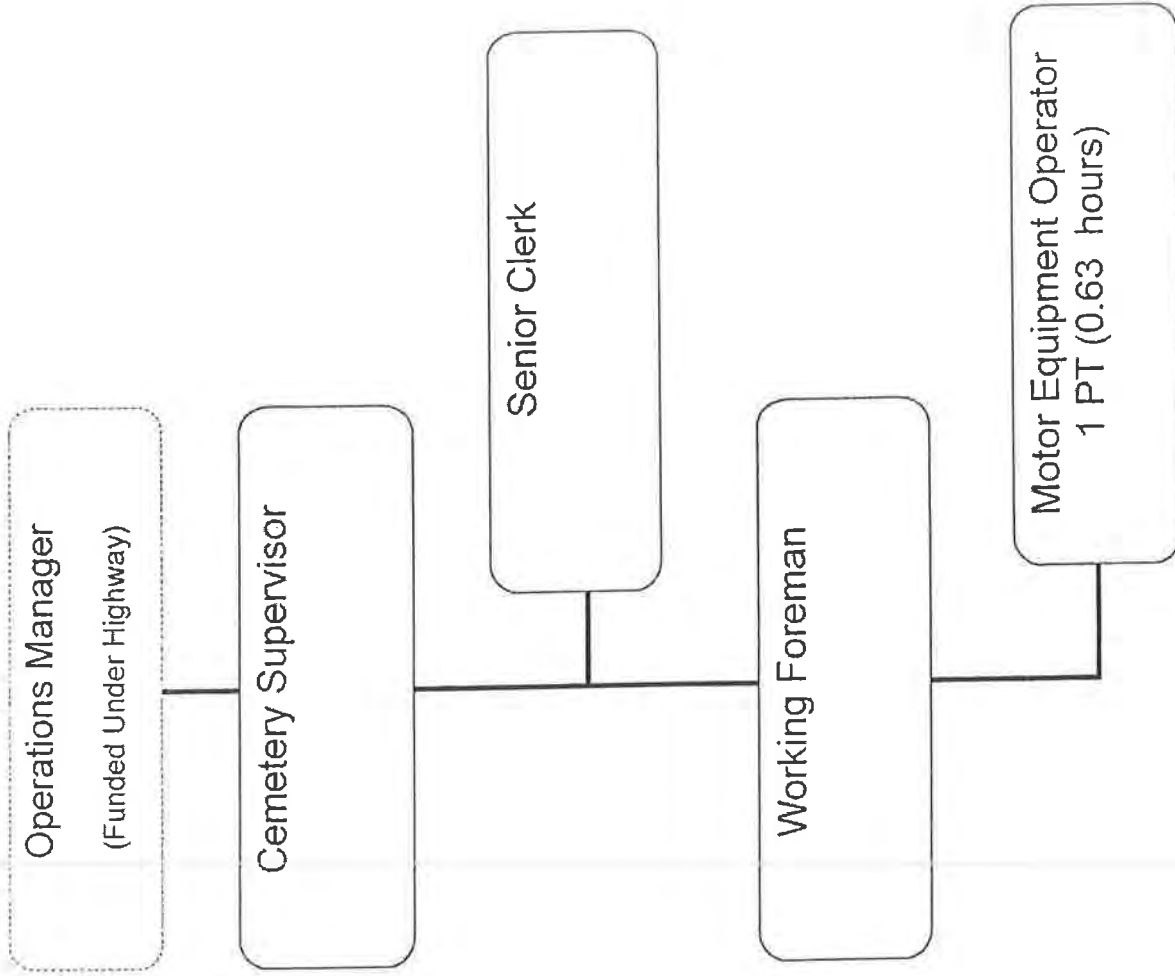
DPW ADMIN



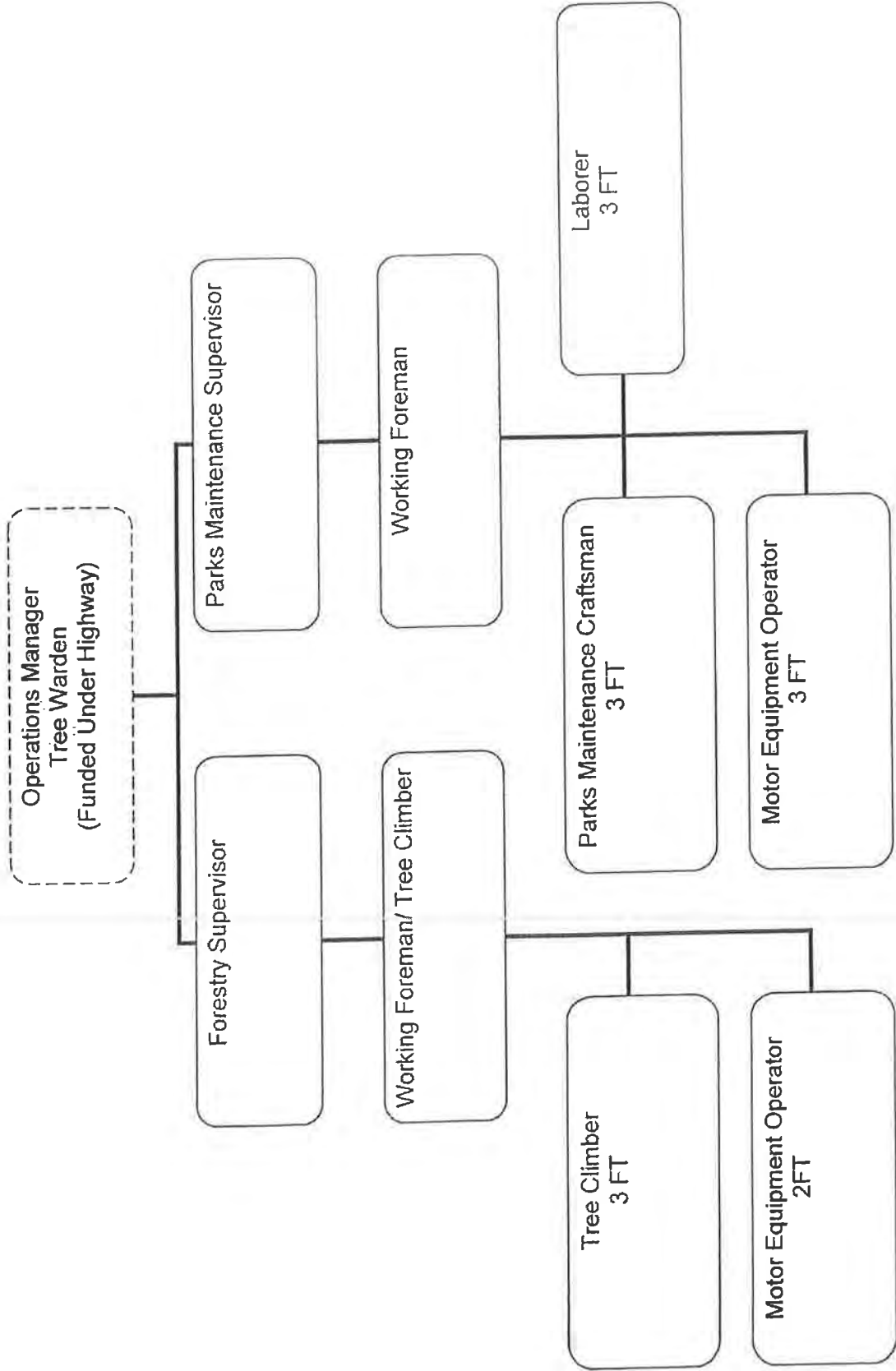
CIVIL ENGINEERING



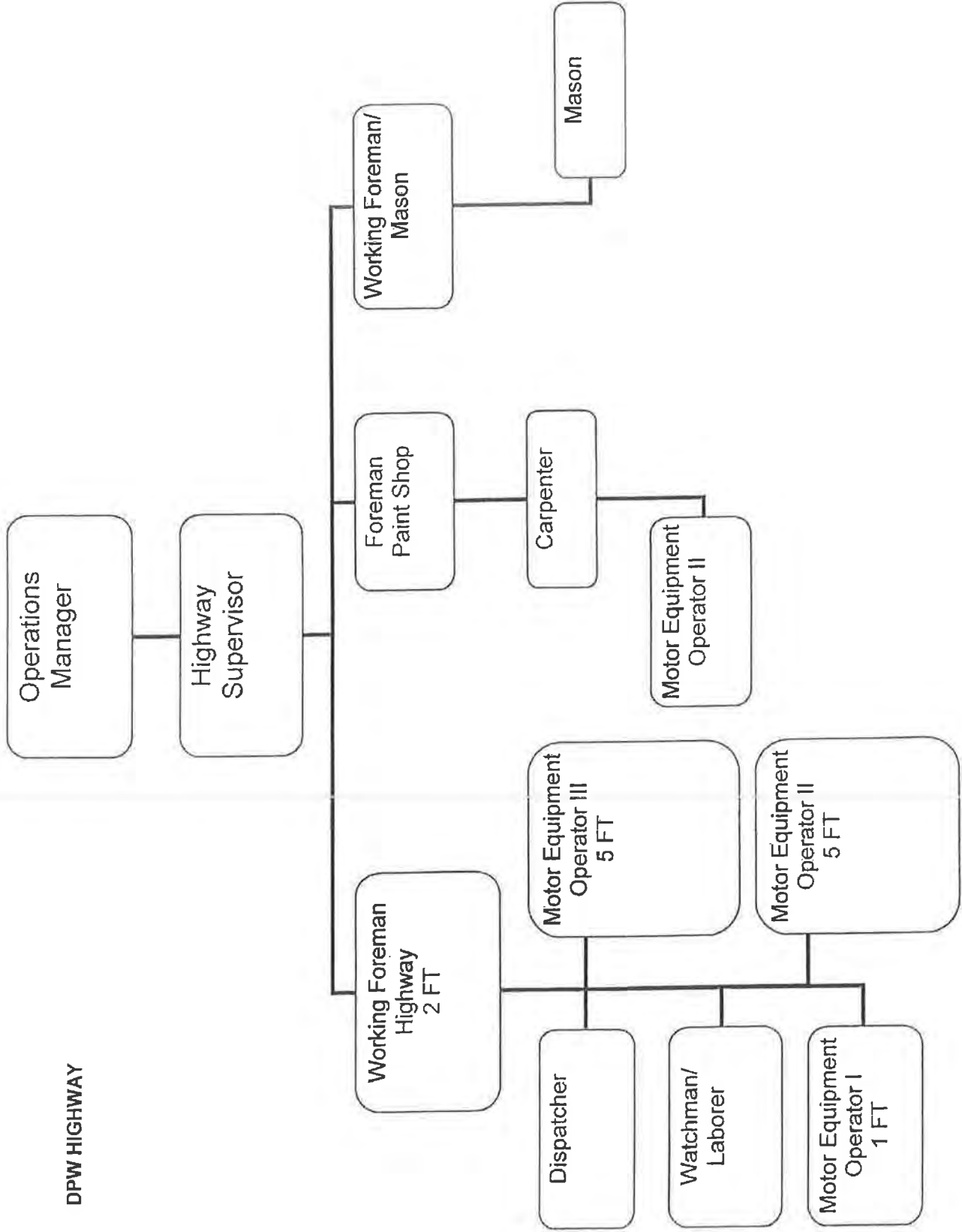
DPW CEMETERIES



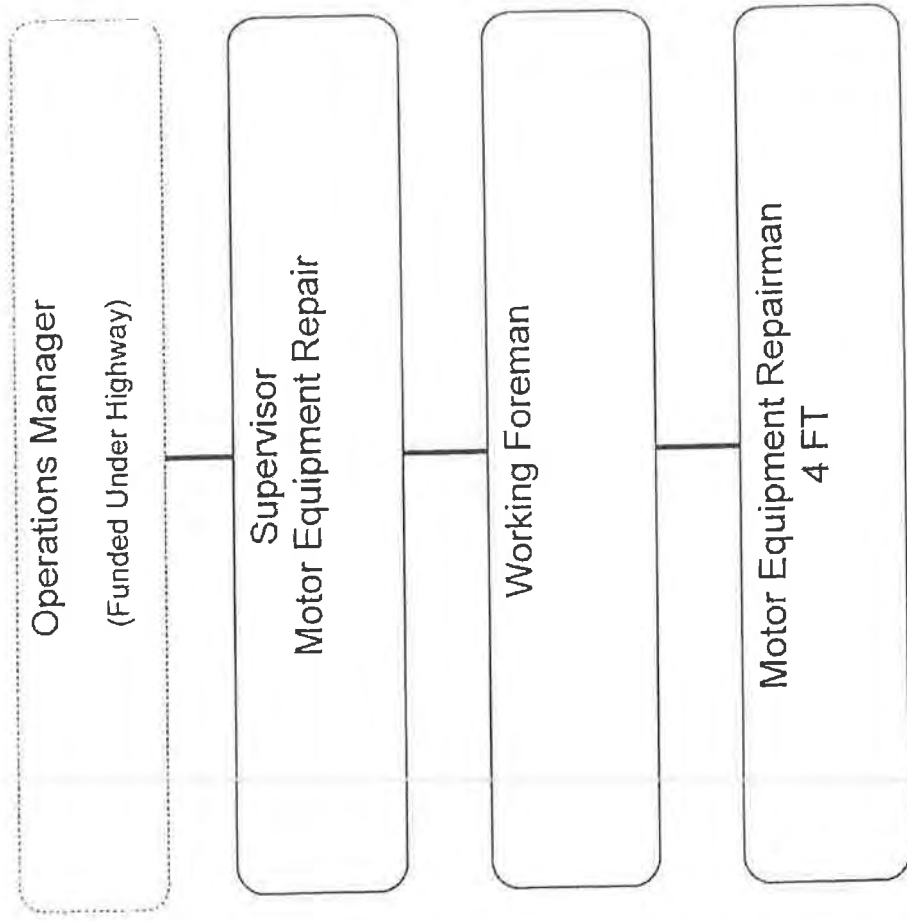
DPW NATURAL RESOURCES



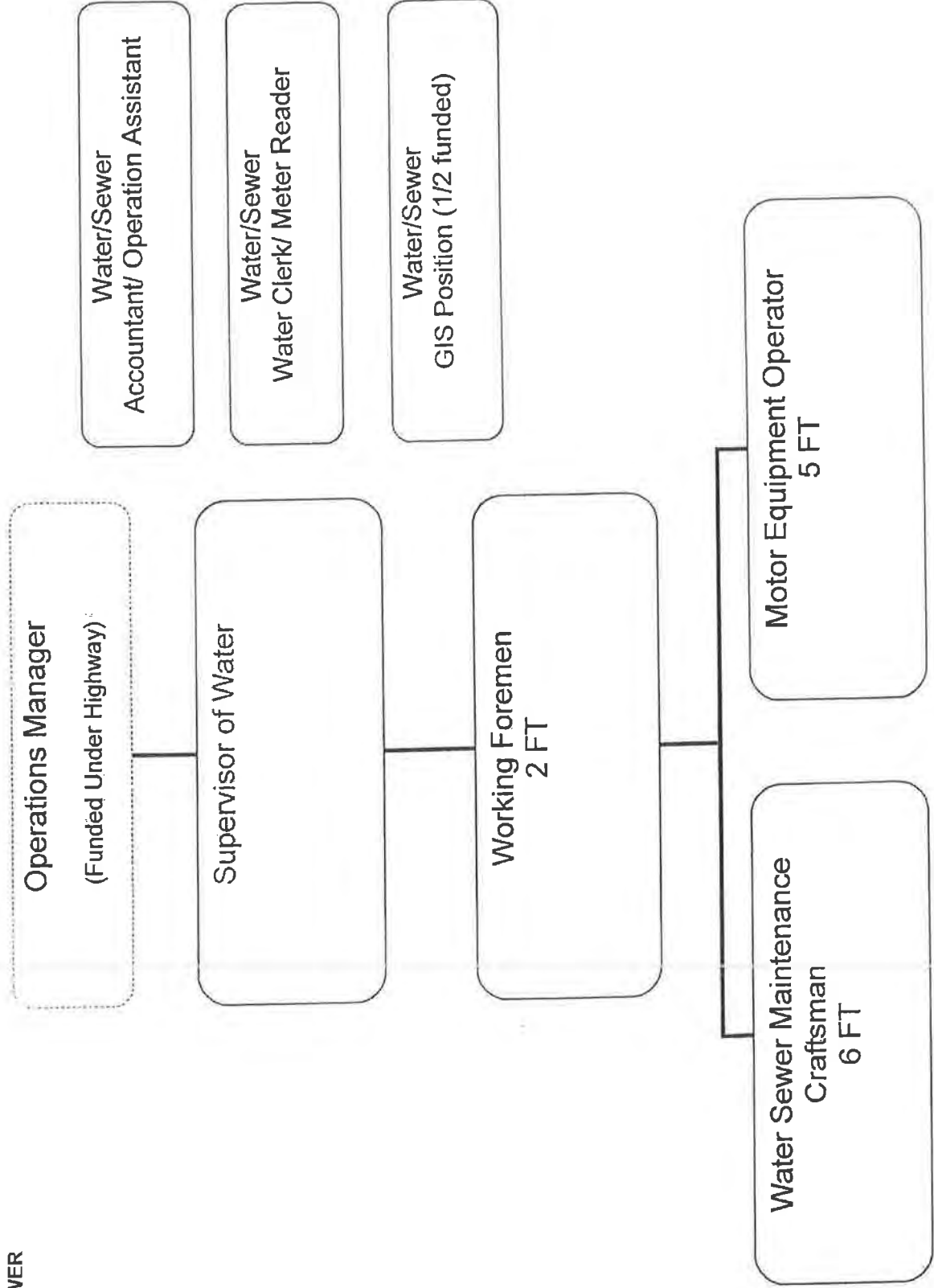
DPW HIGHWAY



DPW MOTOR EQUIP REPAIR



WATER/SEWER



Arlington (MA) Department of Public Works
DPW Facility Existing Conditions Study

DEPARTMENT FLEET LISTING

33	1	Chevrolet	2500	1GCGK24R3XF037225	Pick Up	8,600	1999	MER	M62-318	G
35										
2.5	36-	Chevrolet	3500	1GBJK34KX8E108317	Dump	12,000	2008	HWY	M84-559	G
2.5	x37	Chevrolet	3500	1GBJC34R9XF017770	Dump	11,000	1999	TREE	M61-218	G
2.5	38	Chevrolet	CK3500	1GB6KZBK7AF116483	DumpSand	12,000	2010	HWY	M82-254	G
1	39	Chevrolet	2500	1GCHK24U35E162852	Pick Up	9,200	2005	TREE	M73-339	G
2.5	40	Chevrolet	3500	1GBJK34U34E163804	Dump	12,000	2005	CEM	M73-323	G
1.5	x41	Chevrolet	Kodiak	1GBM6H1P8NUJ103485	Generator	22,000	1992	W&S	M12-613	F
2.5	42	International	700SER	1HTWAAAR97J553246	Dump	37,000	2007	HWY	M78-832	F
2.5	43	Chevrolet	C8500	1GBP7H1C82J502158	Dump	30,000	2002	HWY	M64-476	F
2.5	44	International	4300SB	1HTMM/AAN47H516933	Aerial	29,000	2007	TREE	M76-101	F
4	45	Chevrolet	C8500	1GBP7H1C31J503099	Catch Bas	36,220	2001	HWY	M62-554	F
1	x46	Chevrolet	2500	1GCGC24K1SE248924	Pick Up	8,600	1995	MER	M12-617	G
1	x47	Chevrolet	2500	1GCGC24R7XF017914	Pick Up	8,600	1999	HWY	M12-618	G
									Page 2	
		No Make	Model	Serial No	Body	GVW	Year	Div	Plate	
1	48	Chevrolet	2500	1GCHK24U35E162995	Pick Up	9,200	2005	CEM	M73-338	G
	49									
	50									
4	51-	International	7400SFE	1HTWE:AAR39J126698	Snow Plow	40,000	2009	HWY	M-108	F
	52									
3	53	Freightliner	M2	1FVAC3DC15HV20304	Snow Plow	36,220	2005	HWY	M73-678	F
	54									
4	55-	International	700SER	1HTWE:AAR98J694856	Snow Plow	40,000	2008	HWY	M77-186	F
4	56	Autocar	ACL42B	4V2SA3BE5SR515632	Snow Plow	39,000	1995	HWY	M41-729	F
	57									
4	58	Freightliner	M2	1FVHCYDA64HN61522	Dump	59,000	2004	HWY	M71-626	F
1.5	x59	Chevrolet	3500	1GBJC34RXXF040961	Utility	11,000	1999	W&S	M61-264	G
	60									
	61									
2.5	62-	Chevrolet	3500	1GBJK34K88E150601	Dump	12,000	2008	Park	M77-623	G
2.5	63-	Chevrolet	3500	1GBJK34U37E110023	Dump	12,000	2007	Park	M80-037	G
3	64	International	5000	2HTTELHR8PLD59919	Snow Plow	37,760	1993	HWY	M46-662	F
3	65	Autocar	ACL42B	4V53ABBE0VR517098	Snow Plow	33,280	1997	HWY	M12-563	F
	66									
3	67	Autocar	ACL42B	4V5SABBB0VR517439	Snow Plow	34,780	1997	HWY	M33-727	F

2.5	68-	Chevrolet	CK3500	1GB6CZBK9AF117924	Dump	11,400	2010	TREE	M82-252	G
	69									
	70									
1	71	Chevrolet	2500	1GCGK24R5YR207746	Pick Up	8,600	2000	HWY	M65-424	G
1	72	Chevrolet	2550	1GCGC34R1YR150996	Pick Up	9,000	2000	HWY	M65-402	G
	73									
1	74	Chevrolet	2500	1GCGK24RXYR207838	Pick Up	8,600	2000	W&S	M65-421	G
1	75-	Chevrolet	2500	1GCHK24U32E261621	Pick Up	9,200	2002	W&S	M69-206	G
1.5	76	Chevrolet	CK3500	1GB6CZBK9AF118538	Utility	11,400	2010	W&S	M83-116	G
1.5	77	Ford	F350	1FDK37H7VEC12243	Utility	15,000	1997	Park	M71-647	G
1	78	Chevrolet	2500	1GCGK24RXXR207791	Pick Up	8,600	2000	HWY	M65-422	G
1	79	Chevrolet	2500	1GCGK24R7YF500694	Pick Up	8,600	2000	HWY	M65-423	G
1	PK1	Chevrolet	2500	1GC3KVBG4AF154322	Pick Up	9,200	2010	Park	M84-788	G
1.5	TR1	Ford	Expedi	1FMPU16L91LB39503	Utility	7,200	2001	Tree	M65-401	G
1	A1	Chevrolet	Blazer	1GNDT13S522211687	Sedan	5,350	2002	T/Mang	32101	G
1	A2	Ford	Explorer	1FMZU73W12UD08631	Sedan		2002	Opes	M84-537	G
1	XA3	Chevrolet	Blazer	1GNDT13WGSK211037	Sedan	5,300	1995	MER	M66-797	G
1	A4	Chevrolet	Lumina	2G1WL52J5Y1225513	Sedan		2000	MER	M12-624	G
1.5	A5	Chevrolet	Tahoe	1GNUGAE02AR258325	Utility	7,300	2010	Opes	75NJ77	G
1	A6	Chevrolet	Blazer	1CNO113X74K168503	Sedan	5,300	2004	Eng	M72-978	G
1	A7	Chevrolet	Colorado	1GCDT13E588165707	Pick Up		2008	Eng	M11-007	G
1	A8	Chevrolet	Equino	2CNDL13F686062290	Sedan	5,070	2008	Eng	M79-306	G
	A9									
	A10									
2.5	A11	Chevrolet	3500	1GB6KZB4AF147335	Dump	12,000	2010	Build M	M84-573	G
1	A12	Chevrolet	2500	1GCHK24UX4E381323	Pick Up	9,200	2004	Build M	M71-805	G
1	A13	Chevrolet	2500	1CCFG25WXXV1013905	Van	7,300	1997	Build M	M14-514	G
1	A14	Ford	F350	1FDKF37HXVEC59315	Dump	11,000	1997	Build M	M14-522	G
1	A15	Chevrolet	Ex Van	1GCHG35U6311106723	Van	9,600	2003	Build M	M24-954	G
									Page 3	
No	Make	Model	Serial No	Body	GVW	Year	Div	Plate		
1	A16	Ford	F250	1FTBF2B63BEB25844	Pick Up	9,200	2011	Build M	M69-091	G
1	A17	Chevrolet	C6500	1GBG6H1D3YJ502617	Rack Body	26,000	2000	Build M	M14-516	G
2	A18	Chevrolet	3500	3GBK3C4G91M108211	Aerial	15,000	2001	Build M	M26-387	G
1	A19	Chevrolet	Uplander	1GNDV131580D121048	Sedan		2008	Bof H	M53-111	G
1	A20	Chevrolet	Astro	1GCDEM19X83B124408	Van	5,600	2003	Libaray	M65-131	G

1	A21	Chevrolet	Van	1GAHG39U051205334	Van	8,600	2005	School	M48-980	G
	101	Bluebird		1BAADCPA92F205402	Bus	30,000	2002	School	SB5169	F
	102	Bluebird		1BABDCPAX8F255268	Bus	28,350	2008	School	SB5164	F
	103	Bluebird		1BABKCPA88F250544	Bus	30,350	2008	School	SB8657	F
	104	Bluebird		1BABKCKA76F232010	Bus	33,000	2000	School	SB12221	F
	105	Chevrolet	2500	3GNNGK26U72G191792	Bus	8,600	2002	School	SB31455	G
	106	Bluebird	AME	1BAKECKH56F232391	Bus		2006	School	SB10149	F
	107	GMC	3500	1GD7T1J4WJ503967	Bus		1998	School	SB1080	G
	108	Chevrolet		1GBH31R9X1117193	Bus		2000	School	SB5156	F
	109	Chevrolet	3500	1GNHG35RXW1066248	Bus		1998	School	SB32137	F
	0.3	603	Goreman Rupp	883721	Pump	3"	1988	W&S	Gas	
	0.3	604	Goreman Rupp	883676	Pump	3"	1988	W&S	Gas	
	0.3	605	Goreman Rupp	883688	Pump	3"	1988	W&S	Gas	
	0.3	606	Jaeger	P212717	Pump		1970	W&S	Gas	
	0.3	607	Stow	9202367	Cement	Mixer	1993	HWY	Gas	
	608									
	0.3	609	Honda	1005066	Pump	3"	1992	W&S	Gas	
	0.3	610	Honda	916769	Pump		1993	W&S	Gas	
	0.7	611	Goreman Rupp	CE6A60-FL 1194327	Pump	6"	1998	W&S	Fuel	
	0.3	612	Goreman Rupp	13D1-GX240 001333439	Pump	3"	2006	W&S	Gas	
	0.3	613	Hidels	SHE-50X 70701026	Pump	2"	2007	HWY	Gas	
		700	School Department small equipment							
		800	D.P.N.R.Department small equipment							
		900	Cemetery Department small equipment							
		1000	Garage&Highway Department small equipment							
	F1	Hyster	P50A	A119E019919V	Fork Lift		1975	MER	M12-574	G
	F2	Hyster	H80XL	G005D02918R	Fork Lift		1994	MER	M12-645	G
	G1									
	3	G2	John Deere	1445 TC1462X020250	Mower		2002	Park	Fuel	
	3	G3	John Deere	MOF935X185506	Mower		2002	Park	Fuel	
	G4									
	G5	Jacobsen								
	3	G6	Jacobsen	HR9016	Mower		2002	Park	M69-097	F
	3	G7	John Deere	Series II TC1600T050332	Mower		2006	Park	Fuel 1600	
	3	G8	John Deere	1445 TC1445D061381	Mower		2006	Park	72" Fuel	
	3	G9	John Deere	1445 TC1460X06374	Mower		2006	Park	60" Fuel	
	3	L1-	JCB	3CX14 SLP214TC9U0912437	Loader	15,900	2009	HWY	M78-376	F

Arlington (MA) Department of Public Works
DPW Facility Existing Conditions Study

MASS DEP HAZMAT RELEASE REPORTS

Reportable Release Lookup

The search returned 4 results | Search Keywords >> ARLINGTON,51 Grove Street | Sorted by: RTN | Data last updated: 10/30/2012

RTN	City/Town	Release Address	Site Name/ Location Aid	Reporting Category	Notification Date	Compliance Status	Date	Phase	RAO Class	Chemical Type	Supporting Documents
3-0004241	ARLINGTON	51 GROVE ST	51 GROVE ST SITE	NONE	10/1/1993	REMOPS	4/9/2007	PHASE V		Oil	Files
3-0018405	ARLINGTON	51 GROVE ST	DPW GARAGE	120 DY	6/10/1999	RTN CLOSED	8/9/2002	PHASE II		Oil and Hazardous Material	Files
3-0019754	ARLINGTON	51 GROVE ST	DPW YARD	72 IIR	7/21/2000	RAO	12/1/2003	PHASE IV	C2		Files
3-0024242	ARLINGTON	51 GROVE ST	ARLINGTON HIGH SCHOOL	TWO IIR	9/16/2004	RTN CLOSED	7/15/2005			Hazardous Material	Files

Site Information		Category:	NONE
Site Number:	3-0004241	Release Type:	REMOP5
Site Name:	51 GROVE ST SITE	Current date:	4/9/2007
Address:	51 GROVE ST	Phase:	PHASE V
Town:	ARLINGTON	RAO Class:	
Zipcode:		Location type:	MUNICIPAL
Official notification date:	11/1/1993	Source:	UST
Initial status date:	8/2/1997		

Response Action Information	
Response Action Type:	PHASEV Phase 5
Status:	STRCVD Status or Interim Report Received
Submittal Date:	6/19/2012
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RAO Response Action Outcome - RAO
Status:	IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date:	3/9/2012
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RAO-P Partial RAO for this RTN
Status:	IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date:	3/3/2011
RAO class:	C1
Activity & Use Limitation:	NONE
Response Action Type:	PHASIV Phase 4
Status:	PLANMD Modified Revised or Updated Plan Received
Submittal Date:	6/6/2007
RAO class:	
Activity & Use Limitation:	
Response Action Type:	URAM Utility-related Abatement Measure
Status:	CSRCVD Completion Statement Received
Submittal Date:	5/12/2006
RAO class:	
Activity & Use Limitation:	
Response Action Type:	TCLASS Tier Classification
Status:	PEREXT Permit Extension Received
Submittal Date:	3/19/2006
RAO class:	
Activity & Use Limitation:	
Response Action Type:	PHSIII Phase 3
Status:	REVRCD Revised Statement or Transmittal Received
Submittal Date:	7/15/2005
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RAO-P Partial RAO for this RTN
Status:	RAORCD RAO Statement Received
Submittal Date:	3/28/2005
RAO class:	A2
Activity & Use Limitation:	NONE
Response Action Type:	RAO-P Partial RAO for this RTN
Status:	RAORCD RAO Statement Received
Submittal Date:	3/10/2005
RAO class:	B1
Activity & Use Limitation:	NONE
Response Action Type:	RAO-P Partial RAO for this RTN
Status:	RAORCD RAO Statement Received
Submittal Date:	3/8/2005
RAO class:	B1
Activity & Use Limitation:	NONE
Response Action Type:	URAM Utility-related Abatement Measure
Status:	CSRCVD Completion Statement Received
Submittal Date:	5/10/2004
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RAM Release Abatement Measure
Status:	CSRCVD Completion Statement Received
Submittal Date:	6/13/2003
RAO class:	
Activity & Use Limitation:	
Response Action Type:	PHASII Phase 2
Status:	CSRCVD Completion Statement Received
Submittal Date:	6/21/2001
RAO class:	
Activity & Use Limitation:	
Response Action Type:	URAM Utility-related Abatement Measure
Status:	CSRCVD Completion Statement Received
Submittal Date:	8/24/2000
RAO class:	

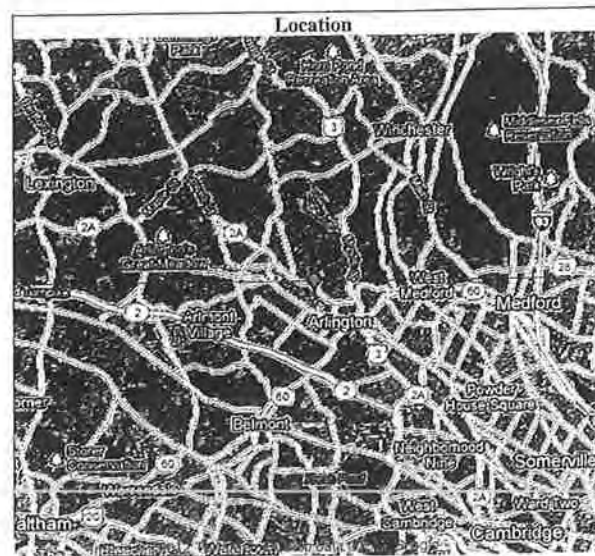
Chemical	Amount	Units
GASOLINE		

LSPs	
LSP#	Name
3133	TUTTLE, DENNIS G
3264	MYETTE, CHARLES F

RAO Detail			
Class	Method	GW Category	Soil Category
C1	3	2	3
A2	3	3	1
B1	2	3	1
B1	3		1

Secondary RTNs	
3-0013215	
3-0018203	
3-0018405	
3-0024242	

Tier Classification Detail							
NRS Totals	II	III	IV	V	VI	Zone 2	Inninent Hazard
475	235	130	35	75	0	N	N



Activity & Use Limitation:
Response Action Type: PHASE I Phase 1
Status: CSRCVD Completion Statement Recd
6/17/1997
Submittal Date:
RAO class:
Activity & Use Limitation:
Response Action Type: REL Potential Release or Threat of Re
Status: TCTRNS Tier Classified Transition Site
Submittal Date: 10/1/1993
RAO class:
Activity & Use Limitation:



Site Information

Site Number: 3-0018405
 Site Name: DPW GARAGE
 Address: 51 GROVE ST
 Town: ARLINGTON
 Zipcode: 01910
 Official notification date: 6/10/1999
 Initial status date: 6/10/2000

Category: 120 DY
 Release Type: RTN CLOSED
 Current date: 8/9/2002
 Phase: PHASE II
 RAO Class:
 Location type:
 Source:

Actions

Response Action Type: RAO NR RAO Not Required
 Status: RTCLSS Linked to a Tier Classified Site
 Submittal Date: 8/9/2002
 RAO class:
 Activity & Use Limitation:

Response Action Type: TCLASS Tier Classification
 Status: TIER II Tier 2 Classification
 Submittal Date: 6/7/2000
 RAO class:
 Activity & Use Limitation:

Response Action Type: PHASII Phase 2
 Status: SOW Scope of Work Received
 Submittal Date: 6/7/2000
 RAO class:
 Activity & Use Limitation:

Response Action Type: PHASE I Phase I
 Status: CSRCVD Completion Statement Received
 Submittal Date: 6/7/2000
 RAO class:
 Activity & Use Limitation:

Response Action Type: RNF Release Notification Form Received
 Status: REPORT Reportable Release or Threat of Release
 Submittal Date: 6/10/1999
 RAO class:
 Activity & Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
 Status: REPORT Reportable Release or Threat of Release
 Submittal Date: 6/10/1999
 RAO class:
 Activity & Use Limitation:

Response Action Type: TCLASS Tier Classification
 Status: LNKVTC RTN Linked to TCLASS Via Tier Classification Submittal
 Submittal Date: 6/27/1997
 RAO class:
 Activity & Use Limitation:

Chemicals

Chemical	Amount	Units
C9 THRU C18 ALIPHATIC HYDROCARBONS	3300	UG/L
C9 THRU C18 ALIPHATIC HYDROCARBONS	5500	UG/L
VINYL CHLORIDE	32	UG/L

LSPs

LSP#	Name
3264	MYETTE, CHARLES F
3133	TUTTLE, DENNIS G

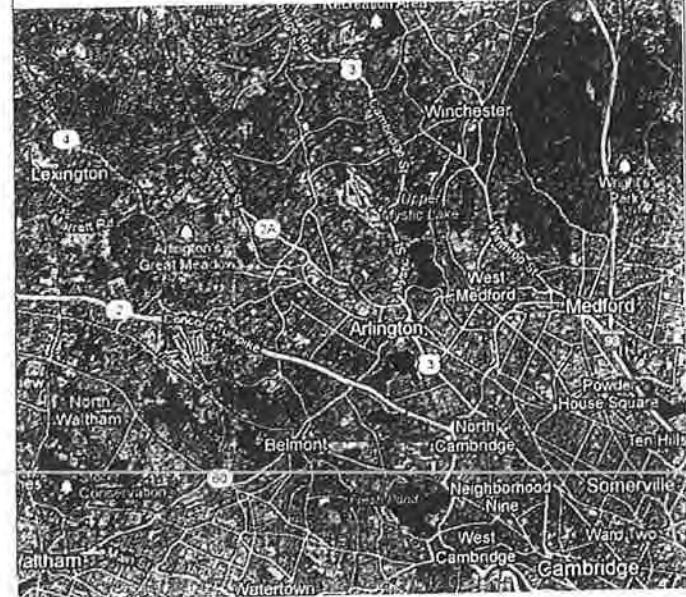
Linked RTNs

Primary RTN	Secondary RTN
3-0004241	3-0013215
3-0004241	3-0018203
3-0004241	3-0018405
3-0004241	3-0024242

Tier Classification Detail

NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
475	235	130	35	75	0	N	N
290	85	110	20	75	0	N	N

Location



Site Information

Site Number: 3-0019754
 Site Name: DPW YARD
 Address: 51 GROVE ST
 Town: ARLINGTON
 Zipcode: 02109
 Official notification date: 7/21/2009
 Initial status date: 7/21/2001

Category: 72 HR
 Release Type: RAO
 Current date: 12/1/2003
 Phase: PHASE IV
 RAO Class: C2
 Location type: MUNICIPAL
 Source: UNKNOWN

Actions

Response Action Type:	TCLASS Tier Classification
Status:	T2EXT Tier 2 Extension
Submittal Date:	9/17/2012
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RAO Response Action Outcome - RAO
Status:	IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date:	9/17/2012
RAO class:	C2
Activity & Use Limitation:	NONE
Response Action Type:	IRA Immediate Response Action
Status:	CSRCVD Completion Statement Received
Submittal Date:	12/1/2003
RAO class:	
Activity & Use Limitation:	
Response Action Type:	PHSIII Phase 3
Status:	CSRCVD Completion Statement Received
Submittal Date:	9/16/2003
RAO class:	
Activity & Use Limitation:	
Response Action Type:	PHASII Phase 2
Status:	CSRCVD Completion Statement Received
Submittal Date:	9/16/2003
RAO class:	
Activity & Use Limitation:	
Response Action Type:	PHASEI Phase 1
Status:	CSRCVD Completion Statement Received
Submittal Date:	7/27/2001
RAO class:	
Activity & Use Limitation:	
Response Action Type:	RNF Release Notification Form Received
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	9/21/2000
RAO class:	
Activity & Use Limitation:	
Response Action Type:	REL Potential Release or Threat of Release
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	7/21/2000
RAO class:	
Activity & Use Limitation:	

Chemicals

Chemical	Amount	Units
NAPL	12	INCH

LSPs

LSP#	Name
1510	NANGLE, JEFFREY A
3133	TUTTLE, DENNIS G

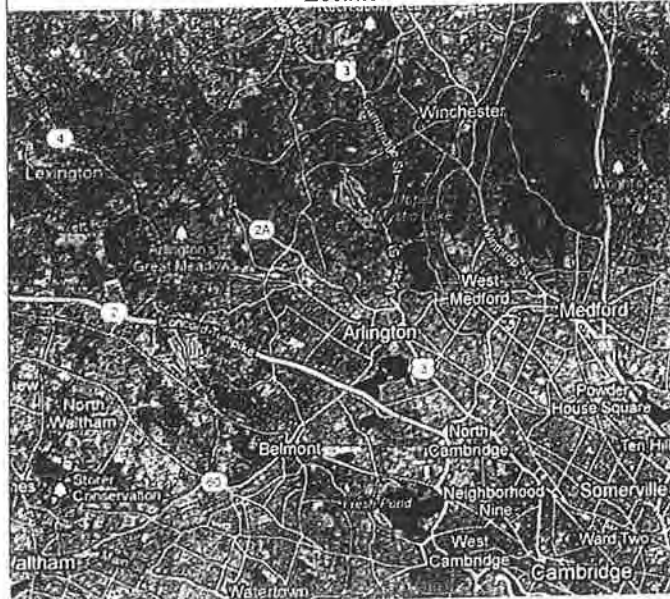
RAO Details

Class	Method	GW Category	Soil Category
C2	1	2	3

Tier Classification Detail

NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
315	85	145	20	65	0	N	N

Location



Site Information

Site Number: 3-0024242
 Site Name: ARLINGTON HIGH SCHOOL
 Address: 51 GROVE ST
 Town: ARLINGTON
 Zipcode: 02476-0906
 Official notification date: 9/16/2004
 Initial status date: 9/16/2005

Category: TWO IIR
 Release Type: RTN CLOSED
 Current date: 7/15/2005
 Phase:
 RAO Class:
 Location type: SCHOOL
 Source: HISTORIC

Actions

Response Action Type: RAONR RAO Not Required
 Status: RTCLSS Linked to a Tier Classified Site
 Submittal Date: 7/15/2005
 RAO class:

Activity & Use Limitation:

Response Action Type: IRA Immediate Response Action
 Status: CSRCVD Completion Statement Received
 Submittal Date: 7/15/2005
 RAO class:

Activity & Use Limitation:

Response Action Type: RNF Release Notification Form Received
 Status: REPORT Reportable Release or Threat of Release
 Submittal Date: 11/15/2004
 RAO class:

Activity & Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
 Status: REPORT Reportable Release or Threat of Release
 Submittal Date: 9/16/2004
 RAO class:

Activity & Use Limitation:

Response Action Type: TCLASS Tier Classification
 Status: LNKVTC RTN Linked to TCLASS Via Tier Classification Submittal
 Submittal Date: 6/27/1997
 RAO class:

Activity & Use Limitation:

Chemicals

Chemical	Amount	Units
CHROMIUM	3800	MG/KG
CHROMIUM	4600	MG/KG
CHROMIUM, ION (CR6+)	3800	MG/KG

LSPs

LSP#	Name
3264	MYETTE, CHARLES F

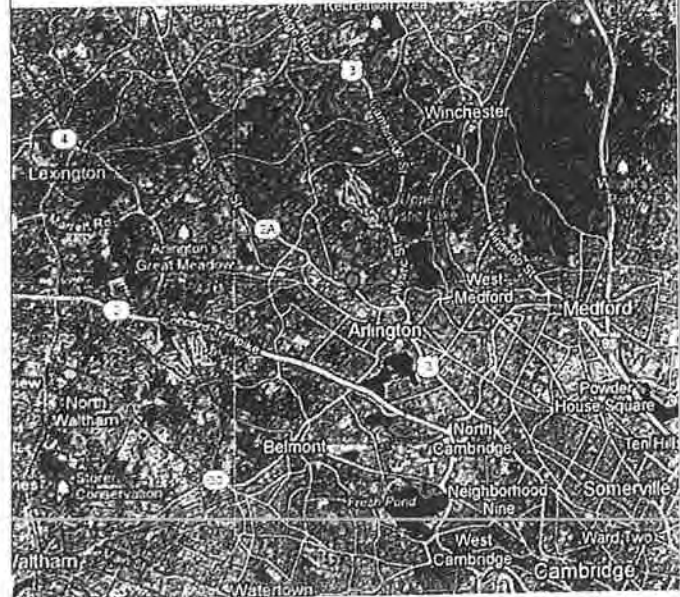
Linked RTNs

Primary RTN	Secondary RTN
3-0004241	3-0013215
3-0004241	3-0018203
3-0004241	3-0018405
3-0004241	3-0024242

Tier Classification Detail

NRS Totals	II	III	IV	V	VI	Zone 2	Imminent Hazard
475	235	130	35	75	0	N	N

Location





LOSS CONTROL RECOMMENDATIONS

CONFIDENTIAL AND PROPRIETARY

Town of Arlington
 730 Massachusetts Avenue
 781-316-3631
 Mark Milano
 Maintenance Superintendent
 Brian Baumer, Phone # 781-879-6315

Date of Inspection
 Contact
 Title
 Phone
 E-mail

10/13/2011
 Mr. Jeffrey Sielta
 Loss Control Manager
 617-428-7273 x259
 jsietta@mima.org

following recommendations are submitted to improve your Loss Control Program. Recommendation numbers with the prefix "CR" should be given the highest priority for completion, as they are of critical importance in relation to the health and safety of employees. Please respond within 30 days regarding your compliance with all recommendations.

Recommendation Number	Location	Recommendation	Date Completed or Action Planned	Photo Documentation
2011-10-06	Public Works	Flammables stored on the ground next to the building should be moved to an approved flammable liquid storage cabinet.	WE HAVE STORED ALL THE FLAMMABLE CONTAINERS IN OUR STORAGE CABINET.	
2011-10-07	Public Works	Highway vehicles should be equipped with a portable fire extinguisher, reflectors, chocks and a first aid kit in the event of an emergency. Inventory should be taken of each vehicle and mobile equipment to ensure all of these items are in place as some were noted missing	MATERIALS HAVE BEEN ORDERED AND WILL START TO INSTALL THE WEEK OF DEC. 12, 2011	
2011-10-08	Public Works	Housekeeping should be improved in the parts storage room as items on the floor and in the aisles present a fire and life safety hazard.	AN EMPLOYEE HAS BEEN ASSIGNED TO THIS AREA TO CLEAN UP AND STRAIGHTEN OUT STORAGE.	

Inspections and recommendations are purely advisory and intended to assist our clients in loss control and safety procedures. The implementation of recommendations made is the sole responsibility of the client. Observations and recommendations are based on practices and conditions observed and information made available to us at the time of our visit and do not imply or guarantee full compliance with local, state, or federal regulations which may be applicable to such practices and conditions. These inspections, reports, and recommendations do not signify or imply that hazards do not exist.



LOSS CONTROL RECOMMENDATIONS

CONFIDENTIAL AND PROPRIETARY

Member Name: Town of Arlington
 Address: 730 Massachusetts Avenue
 City: 781-316-3631
 Member Contact: Mark Miano
 Title: Maintenance Superintendent
 Phone: Brian Baunier Phone # 781-979-6315
 E-mail: baunier@tma.org

Date of Inspection: 10/13/2011
 Contact: Mr. Jeffrey Siena
 Title: Loss Control Manager
 Phone: 817-426-7272 x259
 E-mail: jsiena@tma.org

The following recommendations are submitted to improve your Loss Control Program. Recommendation numbers with the prefix "CR" should be given the highest priority for completion, as they have critical importance in relation to the health and safety of employees. Please respond within 30 days regarding your compliance with all recommendations.

Recommendation Number	Location	Recommendation	Date Completed or Action Planned	Photo Documentation
2011-10-09	Public Works	To prevent potential injury to staff, compressed air tanks should be secured together and against a wall	WE STORED THIS BACK IN PLACE	
2011-10-10	Public Works	To reduce fire potential and ensure prompt access to panels, items should not be stored within 36 inches of the electrical panel in the mechanic's bay	WE WILL MOVE THIS STOCK TO THE OTHER SHOP. WILL BE DONE DEC. 9, 2011	

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Arlington (MA) Department of Public Works
DPW Facility Existing Conditions Study

FEDERAL HISTORIC PROPERTY LISTING

FORM B - BUILDING

Area	Form no.
	309

MASSACHUSETTS HISTORICAL COMMISSION
80 Boylston Street, Boston, MA 02116

PHOTO (3x3" or 3x5", black & white)
Staple to left side of form
Photo number _____

SKETCH MAP

Draw map showing property's
location in relation to nearest
cross streets and other buildings
or geographical features.
Indicate north.

Town Arlington
Address Grove Street Town Yard
Historic Name Arlington Gaslight Company
Use: Original Gas Works
Present Arlington Dept. of Public Wo
Ownership: Private individual
Private organization _____
Public Town of Arlington
Original owner Arlington Gas Light
Company

DESCRIPTION:

Date 1914
Source Mill Brook Valley
Style Romanesque
Architect N/A
Exterior wall fabric Brick
Outbuildings Two: office and meter
building (both mid 20th century).
Major alterations (with dates) None
Moved No Date N/A
Approx. acreage 4 1/2 acres
Setting Town Yard is located near
Massachusetts Avenue, in an area of park
and playgrounds that is bisected by the
tracks of the Boston & Maine Railroad.

Recorded by Betsy Friedberg
Organization Mass. Historical Commission
Date 1/1985

UTM: 321530/4698610

ARCHITECTURAL SIGNIFICANCE (describe important architectural features and evaluate in terms of other buildings within community)

Grove Street Town Yard is a complex of several brick and concrete structures, the largest of which is the former power station to the rear of the property. The power station is built in the Romanesque style, with corbelled brick adorning its cornices and smokestack. It is one of Arlington's few industrial buildings, and is a well-preserved example.

HISTORICAL SIGNIFICANCE (explain the role owners played in local or state history and how the building relates to the development of the community)

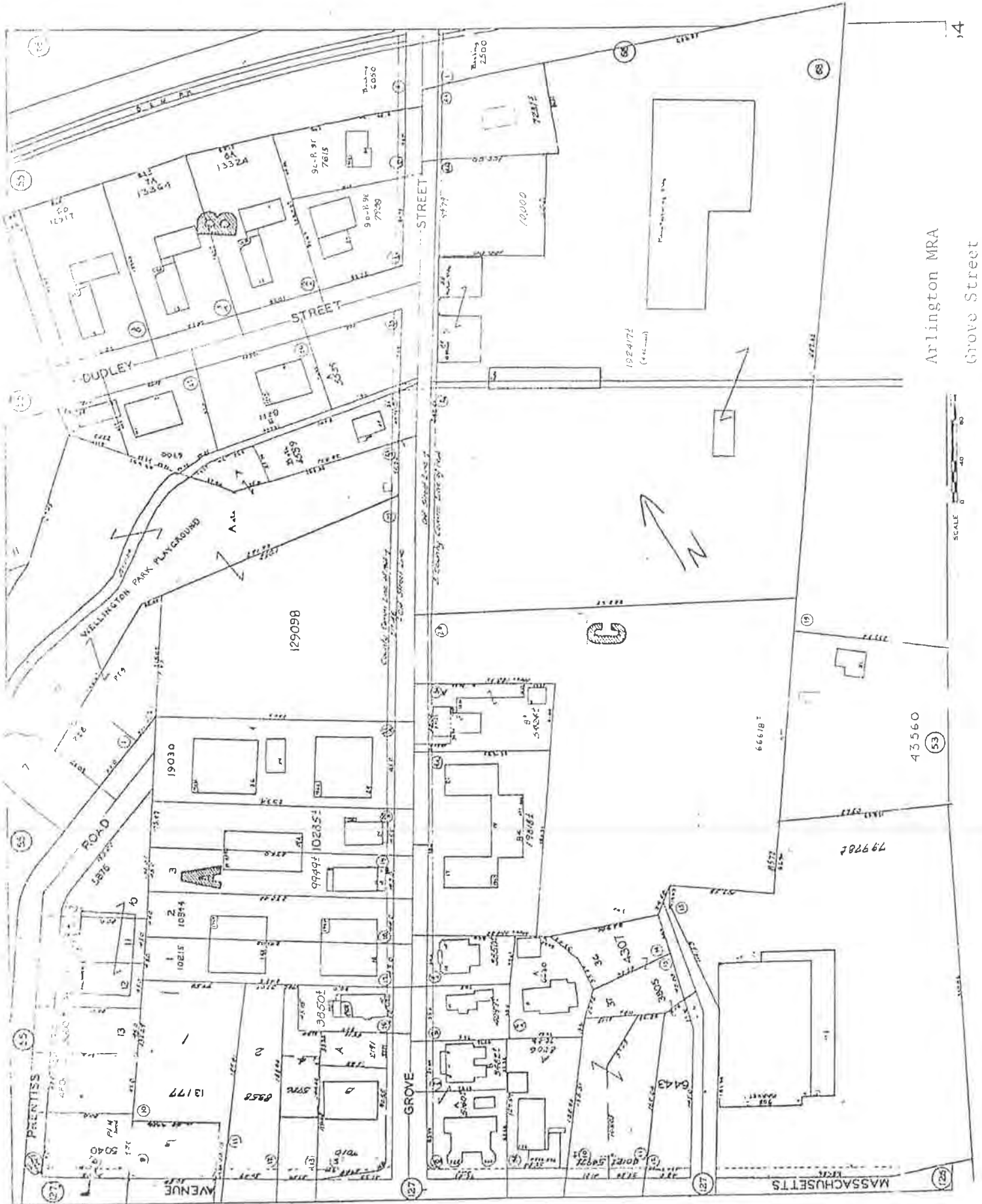
Grove Street Town Yard formerly served as the headquarters for the Arlington Gas Light Company. It was built on the site of the Welch and Griffith saw factory (ca. 1830), the first saw manufactory in the United States, after a 1913 fire. The gas light company used this complex of buildings to manufacture gas for light and fuel--it was Arlington's first such company and fulfilled an urgent need for the expanding community. The property at one time also held a large gas storage tank, built in 1923. On top of the tank was painted the legend "ARLINGTON," in yellow letters 20 feet high and 12 feet wide, and bisected by an arrow pointing north. This was New England's first marker for aerial navigation. In 1975, the tower, no longer in use, was torn down. Today the Arlington Gas Light Company is the headquarters for the Arlington Department of Public Works.

CRITERIA FOR EVALUATION

Grove Street Town Yard, formerly a housefold fuel manufactory, is a complex of industrial buildings that retains integrity of location, design, setting, materials, and workmanship. It fulfills Criteria A and C of the National Register of Historic Places.

BIBLIOGRAPHY and/or REFERENCES

Arlington Historical Commission, Mill Brook Valley: A Historical and Architectural Survey. Arlington, 1976.



Arlington MRA

Grove Street
Grove Street Yard

SCALE 0 40 80

MASSACHUSETTS

