

Fire Department Station 1



Town of Sudbury ADA Transition Plan

October 2020



Institute for Human Centered Design

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Background

Year Built: 1992

Fire Department Station 1 is located at 77 Hudson Road. The building consists of a lower level three-bay apparatus room, a first floor that is approximately 5 feet higher than the lower level that has administrative offices, and a second floor that is not open to the public. The public goes to the first floor administrative offices to get permits and to the apparatus room to tour the fire engines.

A public parking lot is located on the first floor level to the east of the building. It contains a van accessible parking space. Staff parking is located by the lower level apparatus bay. The public is allowed to park in this area for fire station tours.

Key Accessibility Issues

Exit Signage

Accessibility issues include exit doors that lack signage with raised characters and braille on the latch side of the exit door, and lack of signs with an illuminated International Symbol of Accessibility (ISA) over the door.

Doors

Doors to the men's and women's multi-user toilet rooms on the first floor lack maneuvering clearance on the pull side. Other door maneuvering clearance issues can be resolved by relocating furniture and equipment. Two exit doors from the apparatus room have thresholds that are higher than allowed.

Toilet Rooms

Accessibility issues include lavatories that lack required knee clearance, lavatory pipes that are not wrapped to protect against contact, dispensers that are located higher than allowed, coat hooks that are located higher than allowed and a toilet flush control that is not located on the open (transfer) side.

Drinking Fountains

A drinking fountain for a seated user is provided, but a drinking fountain for a standing user is not provided.

Additional Accessibility Issues

- The space required for maneuvering clearance at the door to the secondary entrance is not maintained due to overgrowth.
- The service counter in the reception/fire chief's secretary's office lacks an accessible section that is 36 inches high max.
- The shift commander's office lacks raised characters and braille on the designation sign, and the sign is not located on the latch side of the door.

Order of Magnitude Cost Estimates

- Provide compliant egress signage: \$1,728
- Renovate doors (including providing two automatic door openers): \$6,420
- Renovate the toilet rooms: \$4,786
- Provide a Hi-Lo drinking fountain: \$4,216
- Miscellaneous corrective actions (designation sign, service counter, etc.): \$1,112


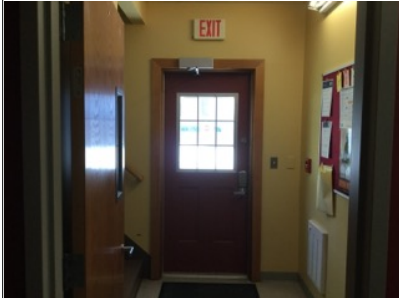



Total: \$18,262

Best Practice and Inclusive Design






Best practice and inclusive design recommendations include elements that are not required in the standards but may create enhanced experiences for all users.

- Recommend providing designation signage with raised characters and braille at all permanent rooms where signage is not provided.





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ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
Approach and Entrance												
Entrance												
1	Secondary Entrance on South	Ext.		Entrance	Secondary Entrance		Surface not stable, firm, and slip-resistant at entrance	-	Remove the weeds from the door maneuvering clearance area.	1	Labor	\$0
Emergency Exit												
2	Main Entrance	1		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)	- -	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility.	1	432	\$432
3	Apparatus Room, South Side Exit	LL		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)	- -	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility.	1	432	\$432
4	Apparatus Room, North Side Exit (Front)	LL		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)	- -	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility.	1	432	\$432
5	Secondary Entrance on South	1		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB) Door requires > 15 lbs. of force to open	- - 17 lbs	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility. Adjust closers of exterior doors so doors do not require more than 15 pounds of force.	1	432 Labor	\$432





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ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
6	Apparatus Room, South Side Exit	Ext.		Emergency Exit	N/A		Threshold > 1/2" high	2.5"	Alter the threshold to be 1/2" high max.	1	150	\$150
7	Apparatus Room, North Side Exit (Front)	Ext.		Emergency Exit	N/A		Threshold > 1/2" high	2.5"	Alter the threshold to be 1/2" high max.	1	150	\$150
Access to Goods and Services												
Doors, Doorways, & Gates												
8	Conference Room	1		Doors, Doorways, & Gates	Meeting Room		Maneuvering clearance(s) not provided	-	Relocate the chair to ensure that there is 18" clear on the latch side of the door.	1	Labor	\$0
9	Men's Toilet Room	1		Doors, Doorways, & Gates	Toilet Room		Maneuvering clearance(s) not provided	-	Provide an automatic door opener.	1	3060	\$3060
10	Secondary Entrance/ Egress	1		Doors, Doorways, & Gates	Circulation		Maneuvering clearance(s) not provided	-	Ensure that vending machine is placed so that it does not affect clear width or maneuvering clearance at the door.	1	Labor	\$0




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11	Women's Toilet Room	1		Doors, Doorways, & Gates	Toilet Room		Maneuvering clearance(s) not provided	2"	Provide an automatic door opener.	1	3060	\$3060
Signage												
12	Shift Commander's Office	1		Signage			Raised characters not provided on sign Braille not provided on sign Sign not located on the latch side of the door	- - -	Provide text with raised characters duplicated in braille on sign. Locate sign at permanent rooms alongside the door on the latch side.	1	232	\$232
Service Counter												
13	Reception/Chief's Secretary	1		Service Counter	N/A		Counter > 36" high	42.25"	Provide a counter that is 36" max. above the ground or finished floor.	1	880	\$880
Toilet & Bathing Rooms												
Overall Access												
14	Apparatus Room	LL		Overall Access	Toilet Room		Not on an accessible route	-	There is no accessible route (only stairs) between the apparatus room and the toilet rooms. It may be technically infeasible to create an accessible route.	1	-	\$0

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ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
Lavatory												
15	Women's Toilet Room	1		Lavatory			Toe or knee clearances not provided Plumbing underneath is exposed Dispensers not within reach range	25.75" - 48"	Provide at least one lavatory with knee and toe clearance positioned for a forward approach. Insulate or otherwise configure pipes to prevent contact at the lavatory. Lower the paper towel dispenser to 42" max. above the floor.	1	2131	\$2131
16	Men's Toilet Room	1		Lavatory	N/A		Toe or knee clearances not provided Plumbing underneath is exposed Dispensers not within reach range	25.75" - 51.25"	Provide at least one lavatory with knee and toe clearance positioned for a forward approach. Insulate or otherwise configure pipes to prevent contact at the lavatory. Lower the paper towel dispenser to 42" max. above the floor.	1	2131	\$2131
Single-User Toilet												
17	Women's Toilet Room	1		Single-User Toilet	N/A		Flush control not on open side	-	Relocate the flush control to the open side.	1	374	\$374
18	Women's Toilet Room	1		Single-User Toilet			Hook located > 48" high	68"	Locate hook no higher than 48" above the finished floor.	1	150	\$150
Additional Access												

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ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
Drinking Fountains												
19	Corridor by Toilet Rooms	1		Drinking Fountains			No drinking fountain provided for standing users	-	Install a Hi-Lo drinking fountain.	1	4216	\$4216
Best Practice												
20	Conference Room	1					Signage is not provided	-	Recommend providing designation signage with raised characters and braille at all permanent rooms where signage is not provided.	1	-	\$0
21	Reception/ Chief's Secretary	1					Signage is not provided		Recommend providing designation signage with raised characters and braille at all permanent rooms where signage is not provided.	1	-	\$0