

Executive Summary

FD Sub Station

Space Designation			Space Need				
No.	Function		Existing	2022 (current need)	2032	2042	PROPOSED
COMMON/SUPPORT SPACES							
C-1	Common/Support Spaces		0	0	0	0	0
COMMON/SHARED TOTAL			0	0	0	0	0
FIRE DEPARTMENT							
F-1	Fire Administration		0	815	815	980	1,026
F-2	Fire Station		0	6,970	6,970	6,970	6,935
F-3	FD Departmental Support		0	1,000	1,000	1,000	1,100
FIRE TOTAL			0	8,785	8,785	8,950	9,061
BUILDING SUPPORT							
S-1	Facility Support		0	738	738	738	126
BUILDING SUPPORT TOTAL			0	738	738	738	126
TOTAL ALL PROGRAMS			0	9,523	9,523	9,688	9,187

Notes

Excludes spaces included in the FD Substation on Continental Drive

Total footprint = 10,381 sf
 Proposed = 9,187 sf
Balance (walls) = 1,904 sf

Efficiency Factor 25%

NOTES: FD prefers a one story Substation for logistical reasons and response time
 FD Substation requires security for FD staff
 Apparatus floor - provide Pluymoment Exhaust and a comgination of heated apparatus floor and overhead heating source
 Defined "hot, warm, and cold" zones within the FD Substation

Executive Summary cont'd - Parking / Apparatus

Programmatic Needs Assessment

Public Safety Building Study

Town of Bedford NH

PROPOSED

LAVALLEE BRENSINGER ARCHITECTS

LBA Project no. 22-046-00

FD SUBSTATION PROGRAM

7/12/2023

Vehicle Parking Requirements				
	STAFF PERSONAL	VISITORS	ADMIN STAFF	TOTAL
Fire Department Staff	14	0	0	14
Public		2	0	2
TOTAL PARKING NEED	14	2	0	16

Notes

Secured Parking controlled by gate/fence

1

FD Equipment List				
TYPE	NUMBER	SIZE (LxWxH)	TYPE	BAYS #
Tower Engine	1	9 x 48	Enclosed	single loaded Bay
ALS Ambulances	2	9 x 24	Enclosed	Double Loaded Bay (2 EMS Ambulances)
Utility Vehicle	1	Provide	Enclosed	Currently located outdoors
16' Boat Trailer	1	9 x 25	Enclosed	Currently located outdoors
Command Vehicles	1	size varies	Enclosed	Currently located outdoors
Large Trailer for Training	1	9 x 25	Enclosed	Currently located outdoors

TOTAL BAYS 4

SUMMARY OF APPARATUS BAYS FOR ENTIRE FD DEPARTMENT

Main FD Station -

Main Station in case of a Substation is built the Main Station Bays are revised to: **xxxxxx**

Substation Bays - (1) 18 x 60 Large Apparatus Bay, (1) 14 x 60 EMS/Ambulance Vehicle Bay double loaded,

Programmatic Needs Assessment

Public Safety Building Study

Town of Bedford, NH

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LAVALLEE|BRENSINGER ARCHITECTS

LBA Project no. 22-046-00

FD SUBSTATION PROGRAM

7/8/2022

Space ID Name

**C-1 Common/Support Spaces
Fire Substation**

Program Area

LAVALLEE|BRENSINGER ARCHITECTS

Space Designation			Space Need				NOTES
No.	Function		Existing NA	2022 (current need)	2032	PROPOSED	
C-1	Common/Support Spaces						
C-1.1	Entry Vestibule - ADA Accessible	0					shared with the PD
C-1.2	Public Lobby	0					shared with the PD
C-1.3	Public Unisex Restroom ADA	0					shared with the PD
C-1.4		0					
C-1.5	EOC	0					Shared with PD - to house up to 25 total staff - range of 1,600 to 1,700 NSF. Consoles, Stations, AV, IT
C-1.5.1	EOC Storage	0					Shared with PD - Accessible from EOC
C-1.5.2	EOC Kitchenette	0					Shared with PD - Accessible from EOC
C-1.5.3	EOC Single User Toilet Room	1					Shared with PD - Accessible from EOC
C-1.7	NOT USED						FD Confirm if needed in the Substation
C-1.8	Gym/Fitness Room	0					Shared with PD - 6 to 7 FD staff at one time. Fitness area should have windows and be visible from common area. Desired to be located near FD living quarters for easy access and quick response to apparatus bays. Estimated size of space if separate from PD - 16x24 = 384 NSF
C-1.8	Large Training Room	0		-	-	-	Shared with PD - to house up to 75 total staff - range of 1,600 to 1,700 NSF
SUBTOTAL			0	0	0	0	
Efficiency Factor 25%			0	0	0	0	
TOTAL C-1			0	0	0	0	

Programmatic Needs Assessment

Public Safety Building Study

Town of Bedford, NH

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LBA Project no. 22-046-00

FD PROGRAM

7/8/2022

F-1 Fire Administration

LAVALLEE | BRENSINGER ARCHITECTS

Fire Substation

Space Designation			Space Need					NOTES
No.	Function		Existing	2022 (current need)	2032	2042	PROPOSED	
F-1	Fire Administration							
F-1.1	Officer Private Office	2		132	132	264	268	Private Office 11 X 12 = 132 NSF
F-1.2	Ready Room / Watch Station	1		168	168	168	197	Adjacent to Apparatus Bays - Work Stations for up to 4 FD staff @ 36 SF each - similar to library carrels/desks/tables - 144 NSF (12 x 12)
F-1.3	Conferene Room	1		192	192	192	220	Private space to seat up to 8 - 192 NSF (12 x 16)
F-1.5	Office Supply Storage / Copy Room	1		80	80	80	100	8 x 10 including copier, printer, office supplies
F-1.5.1	Secure FD Records File Storage	1		80	80	80	63	8 x 10 - Lockable
F-1.6	ADA Uisex Sigle User Restroom for Admin. Suite			0	0	0	178	
F-1.7								
F-1.8								
F-1.9								
SUBTOTAL			0	652	652	784	1,026	
Efficiency Factor 25%			0	163	163	196	0	
TOTAL F-1			0	815	815	980	1,026	

Programmatic Needs Assessment

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LAVALLEE BRENSINGER ARCHITECTS

Public Safety Building Study

LBA Project no. 22-046-00

Town of Bedford, NH

FD PROGRAM

7/8/2022

Space ID Name

Program Area Program Area

F-2 Fire Station Central Station

LAVALLEE BRENSINGER ARCHITECTS

Space Designation			Space Need					Notes
No.	Function		Existing	2022 (current need)	2032	2042	PROPOSED	
F-2	Fire Station							
F-2.1	Private Unisex Bunk Rooms Closed	6		720	720	720	710	Unisex private bunk rooms, 10 x 12, 4 wardrobes each, desk and small closet.
F-2.2								
F-2.3	Single User Male / Female Bathrooms - 2 @ 108 sf each	2		216	216	216	216	9 x 12 -Shared by all 8 bunk rooms - each contain a sink, water closet, and shower stall. Adjacent to bunk rooms
F-2.4	Day Room/ Ready Room for 6 to 7 People	1		200	200	200	197	Adjacent to Bunks, Kitchen, and Dining
F-2.5	Day Room Storage	1		20	20	20	9	Adjacent to Day Room
F-2.6	Clean Zone Laundry	1		100	100	100	92	Includes linen storage
F-2.7	Locker Room - Male	1		220	220	220	176	16 to 18 Lockers, Sink, WC, Urinal, Shower Stall (2)
F-2.8	Locker Room - Female	1		140	140	140	78	6 to 8 Female Lockers, Sink, WC, Shower Stall
F-2.10	Kitchen	1		144	144	144	159	Adjacent to Bunks / Dayroom
F-2.11	Pantry Storage Room	1		48	48	48	69	Adjacent to Kitchen
F-2.12	Dining Area - seat 6 to 8	1		168	168	168	235	12x14 Adjacent to Kitchen and Day Room
F-2.13	Large Apparatus Bays (1) @ 18' x 60' - Drive Thru	1		1,080	1,080	1,080		Drive Thru Bay, Minimum 14.5 foot height clearance, diesel exhaust system, floor trench drains, sealed concrete floors, 14 wide x 14 foot high OH or Bi-part bay doors.
F-2.13.1	EMS/Ambulance Drive Thru Bays and smaller vehicles and trailers (3) @ 14' x 60' (double loaded)	3		2,520	2,520	2,520	4,092	Minimum 12 foot height clearance, diesel exhaust system, floor trench drains, sealed concrete floors, 14 wide x 12 foot high OH or Bi-part bay doors.
	SUBTOTAL		0	5,576	5,576	5,576	6,033	
	Efficiency Factor	25%	0	1,394	1,394	1,394	902	
	TOTAL	F-2	0	6,970	6,970	6,970	6,935	

Programmatic Needs Assessment

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LAVALLEE|BRENSINGER ARCHITECTS

Public Safety Building Study

LBA Project no. 22-046-00

Town of Bedford

FD PROGRAM

7/8/2022

F-3 FD Departmental Support Central Station

LAVALLEE|BRENSINGER ARCHITECTS

Space Designation			Space Need				PROPOSED	Notes:
No.	Function		Existing	2022 (current need)	2032	2042		
F-3	FD Departmental Support							
F-3.1	Decon/Extractor/Drying Room (PPE Washer/Extractor/Dryer)	1		144	144	144	222	Adjacent to Equipment Bays (includes PPE washer/extractor & PPE Dryer) 12 x 12
F-3.2	Air Compressor Room/Cascade	1		100	100	100	133	Adjacent to Apparatus Bays 10 x 10
F-3.3	Tool Storage/FD Equipment Storage	1		168	168	168	200	12 x 14 - Adjacent to Apparatus Bays
F-3.4	Flammable Liquids Storage	1		20	20	20		Adjacent to Equipment Bays - Metal Storage Cabinet with Ventilation
F-3.5	EMS Supplies - Lockable	1		80	80	80	122	8 x 10 Adjacent to bays, bulk supply & drug storage w/ counter & front office
F-3.6	FD Ready Room / Radio Room	1		0	0	0	0	Refer to F. -2.4
F-3.7	Turn Out / Bunker Gear - 24 FD Staff	1		288	288	288	423	Adjacent to Apparatus Bays 12 SF per/Staff (3 x 4 footprint not including isle space which is accounted for in the 25% grossing factor) Gear on rolling storage racks. Each FD Staff has 2 sets of gear. Primary set in locker ready to go. 1 set in gear bag
SUBTOTAL			0	800	800	800	1,100	
Efficiency Factor 25%			0	200	200	200	0	
TOTAL F-3			0	1,000	1,000	1,000	1,100	

Programmatic Needs Assessment
Public Safety Building Study
Town of Exeter, NH

FD PROGRAM
11/23/2021

Space ID Name

Program Area Program Area

S-1 Facility Support
FD Substation

LAVALLEE | BRENSINGER ARCHITECTS

Space Designation			Space Need					Notes:
No.	Function		Existing	2022 (current need)	2032	2042	PROPOSED	
S-1	Facility Support							
1-1.1	Trash/Recycling Storage			80	80	80	0	Adjacent to FD "back door" and Dumpster Enclosure
1-1.2	Custodial Closets/Housekeeping Supplies	1		60	60	60	26	60 SF each with mop sink
1-1.2.1	General Maintenance Supplies - Central	1		0	0	0	0	Included in 1-1.2
1-1.3	Mechanical / Utility Room	1		250	250	250	0	May be reduced depending on the mechanical systems - Exterior Back Up Generator in secure enclosure
1-1.4	Electrical Room	1		100	100	100	0	Adjacent to the Mechanical Room
1-1.5	Stair Towers @ 200 sf each	0		0	0	0	0	One story FD facility
1-1.6	Telephone/Low Voltage/Central FD IT Fiber	1		100	100	100	100	Special cooling - lockable
1-1.7	Telephone/Fiber Room	0		Included in S1-1.6	0	0	0	Included in S1-1.6
1-1.8	IT/IDF Closets @ 32 sf each floor	0		0	0	0	0	Included in S1-1.6
1-1.9	Elevator Machine Room	0		0	0	0	0	One story FD facility
1-1.10	Elevator @ 80 SF/Floor	0		0	0	0	0	One story FD facility
SUBTOTAL			0	590	590	590	126	
Efficiency Factor 25%			0	148	148	148	0	
TOTAL S-1			0	738	738	738	126	