LEBANON CITY COUNCIL
SEPTEMBER 27, 2023 - 7:00 PM
SPECIAL MEETING
COUNCIL CHAMBERS, CITY HALL OR REMOTE VIA VIRTUAL PLATFORM
LEBANONNH.GOV/LIVE

1. Meeting Access

To participate in this meeting, please join live via Microsoft Teams or call 929-229-5356 (access code: 233 384 557#). If you have trouble accessing this meeting, please email Shaun Mulholland.

2. Special Meeting

A. Lebanon Fire Department Central Fire Station Replacement Proposal Presentation

B. Fire Station Debt Analysis

3. Adjournment

Meetings are open for in-person and remote attendance. Members of the public that wish to attend remotely may do so by going to LebanonNH.gov/Live where you will find instructions on how to enter the meeting. Members of the public will be able to participate and ask questions through the City's virtual platform or by phone. Please note: Should technical difficulties occur during the meeting that disrupts virtual or phone connection(s), the meeting will continue without remote access capabilities.

LEBANON FIRE DEPARTMENT CENTRAL FIRE STATION REPLACEMENT PROPOSAL

Presented to The Lebanon City Council

September 27, 2023

THE VISION

- Design a modern fire station that meets the needs of our community and provides an occupationally safe working environment for our first responders.

PROJECT TEAM

- Jim Wheatley, Fire Chief
- Robert Robicsek, Lavallee Brensinger Architects
- Bert DeLaBruere, ReArch Company

BUILDING HISTORY

- **Constructed in 1954**
- **No multi-gender locker-room facilities**
  - ➢Currently the Lebanon Fire Department employs 5 female employees
- **Poor energy efficiency**
- **Much smaller less functional apparatus during this period**
- **Volunteer staffing responding to less than 100 calls annually**
- **Constructed without knowledge of occupational health and safety concerns we clearly know today:**
  - ➢Separation of working and living areas from the apparatus floor
  - ➢Separation of decontamination areas

THE CURRENT PROBLEM

- Poor air flow and ventilation
- No separation between hot, warm and cold zones
- Entire roof needs replacement
- Plymovent needs complete replacement
- Asbestos tiles located in offices, bunk rooms and training room.
- Asbestos pipe wraps in the attic space
- Lead paint detected in multiple locations

2019 PUBLIC SAFETY FACILITY STUDY

- Lavallee Brensinger Architects Team was retained by the City of Lebanon, NH to prepare a comprehensive Public Safety Facilities Study

- The Study incorporates the following existing City Public Safety facilities:
  - Police Department
  - Fire Station No. 1
  - Fire Station No. 2
  - Fire Station No. 3

- Study Phase 1:
  - Task 1: Project kick-off, develop space programs projecting to 2039 for the Police and Fire Departments
  - Task 2: Assessment of existing facilities conditions, operational assessment of the Fire Department

STUDY CONCLUSIONS

LFD Operational Assessment Summary

- **Operational Barriers** due to outdated facilities and space:
- <u>**Fire Administration:**</u>
- Administrative offices are not readily accessible to the public.
- No working space for plans review or meetings with staff.
- Not ADA compliant and inaccessible to handicapped people.
- <u>**Operations:**</u>
- Fire Stations range in age from 43 years to 65 years old
- Apparatus Bays, living facilities, and building systems do not meet ADA or Life Safety Code requirements
- Insufficient areas for ems equipment decontamination and storage

City of Lebanon, NH
Public Safety Buildings Study

MUNICIPAL RESOURCES, INC.

LAVALLEE | BRENSINGER ARCHITECTS
February 5, 2020

STUDY CONCLUSIONS (cont.)

FD Operational Assessment Summary

- **Operations:**
- No available space for maintenance and repair of apparatus or equipment.
- No proper restroom or shower facilities.
- No space or proper area for physical fitness training.
- Rising maintenance and repair costs of facilities due to age.
- No separated spaces between apparatus bays and living quarters which exposes personnel to potential exhaust fumes from apparatus.
- Lack of on-site parking for staff vehicles & visitors.

SPACE NEEDS

Current Building	2019	2029	2039	Proposed Construction
14,987 sq ft	17,890 sq ft	22,930 sq ft	22,930 sq ft	24,531 sq ft

APPLICAPABLE NFPA STANDARDS

- NFPA 1500: Fire Department Occupational Safety, Health and Wellness Program.
- NFPA 1851: Standard On Selection, Care And Maintenance Of Structural Fire Fighting Protective Ensembles.
- NFPA 1710: Standard On The Organization And Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments

Problem

- Fire and emergency services stations are the collection point for contaminated equipment from emergency scenes. In addition to hazards of direct skin contact with the contaminated equipment, there is off-gassing of contaminated equipment into the station environment.

Risk

- Firefighters have a **9%** higher risk of being diagnosed with cancer than the general population
- Firefighters have a **14%** higher risk of dying from cancer than the general population

Rates

- Cancer is the leading cause of death of firefighters
- From 2015-2020 there were **5259** firefighters added to the Fallen firefighter's memorial **3944** of those succumbed to occupational cancer which translates to **788 deaths** annually related to occupational cancer

OCCUPATIONAL CANCER RISK

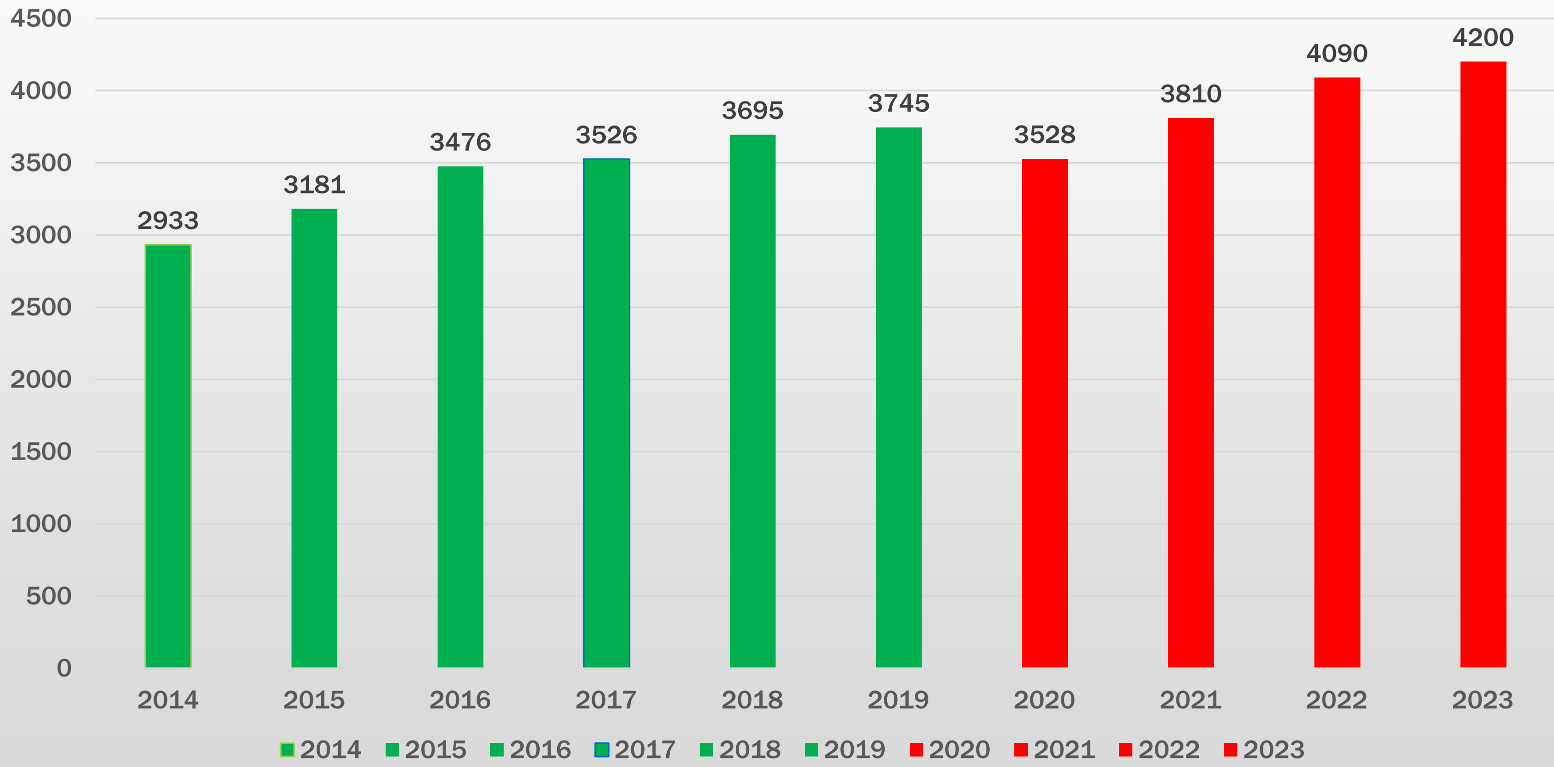
National Fallen Firefighters Memorial
Emittsburg Maryland

FIREFIGHTER CANCER RATES

Studies have shown that firefighters are more likely to get the following types of cancer, compared to the "general public"

- Testicular — 2.02 times.
- Multiple myeloma — 1.53 times.
- Non-Hodgkin's lymphoma — 1.51 times.
- Skin — 1.39 times.
- Brain — 1.32 times.
- Malignant melanoma — 1.31 times.
- Prostate — 1.28 times.
- Colon — 1.21 times.
- Leukemia — 1.14 times.

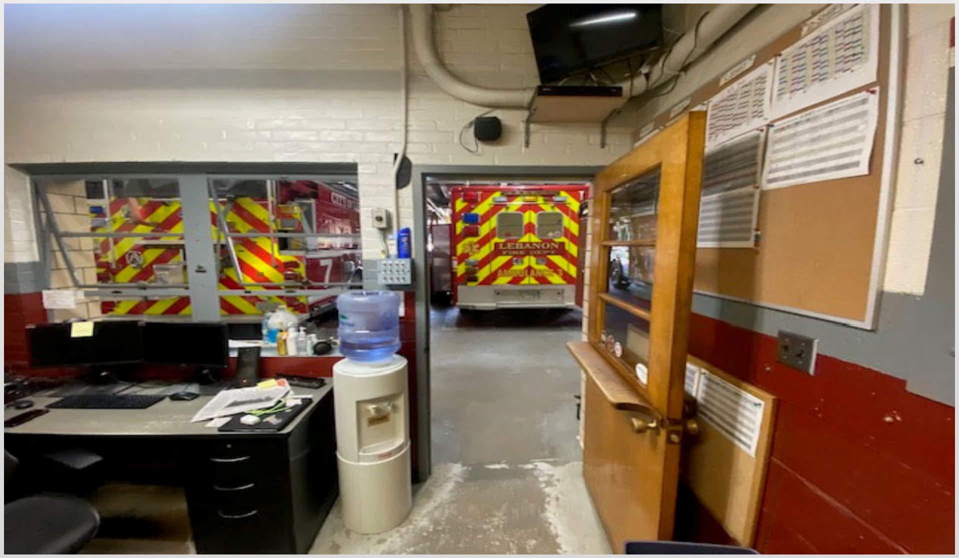
CALL VOLUME PRE AND POST STUDY



DAILY OPERATIONAL OFFICES

Current Firefighter Office

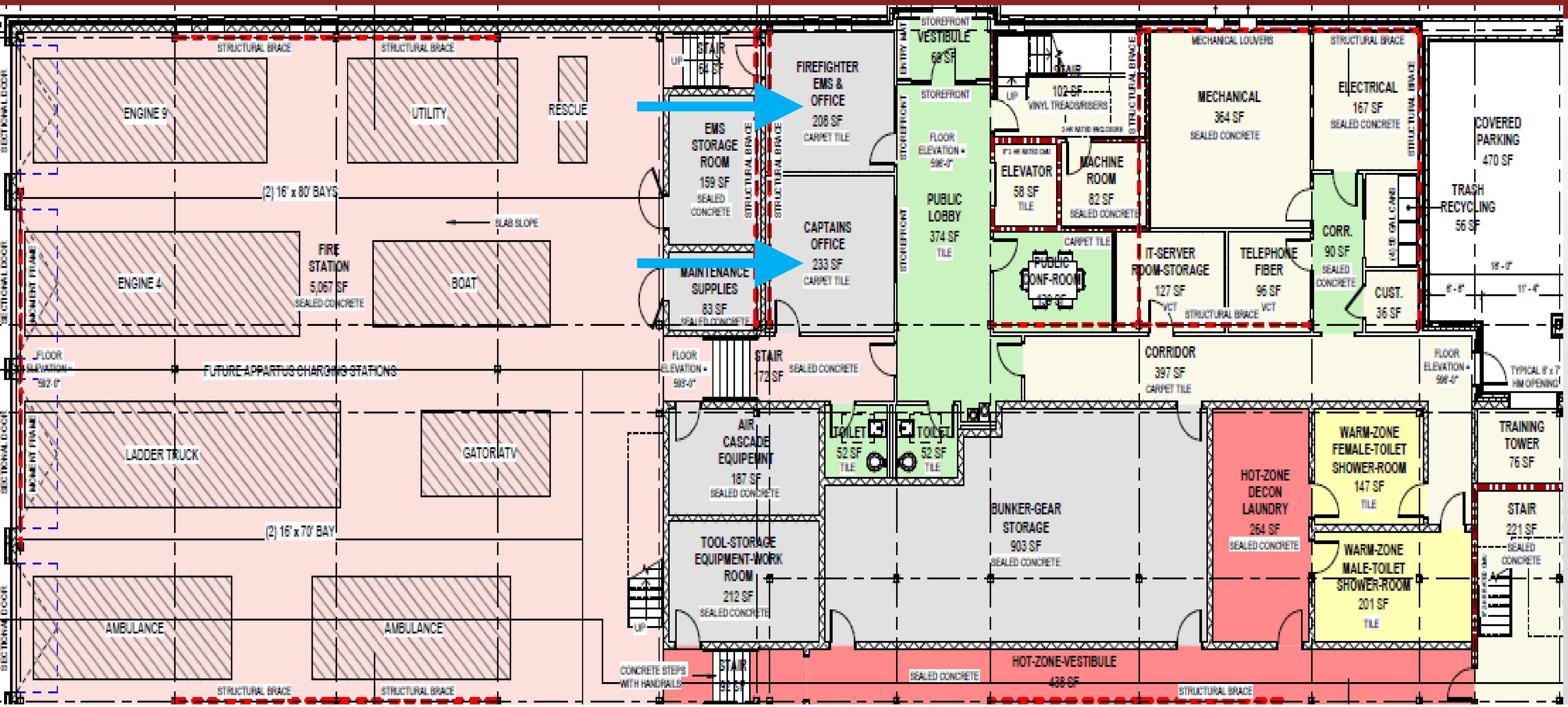
90 Square feet located directly behind the apparatus floor with no positive pressure ventilation to keep exhaust particulates isolated from the space.



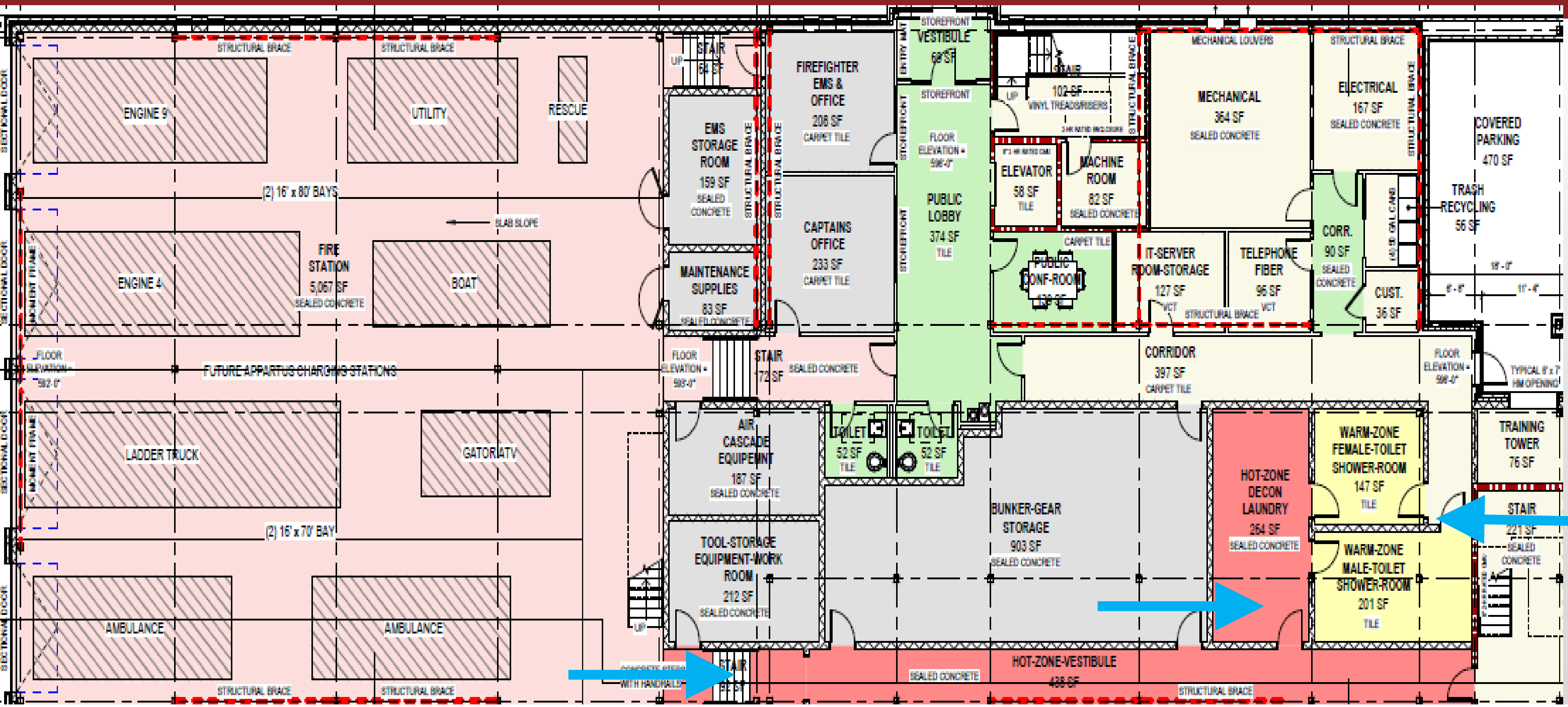
Current Captains Office

182 Square Feet located directly behind the apparatus floor with no positive pressure ventilation to keep exhaust particulates isolated from the space.

FUTURE OPERATIONAL OFFICES

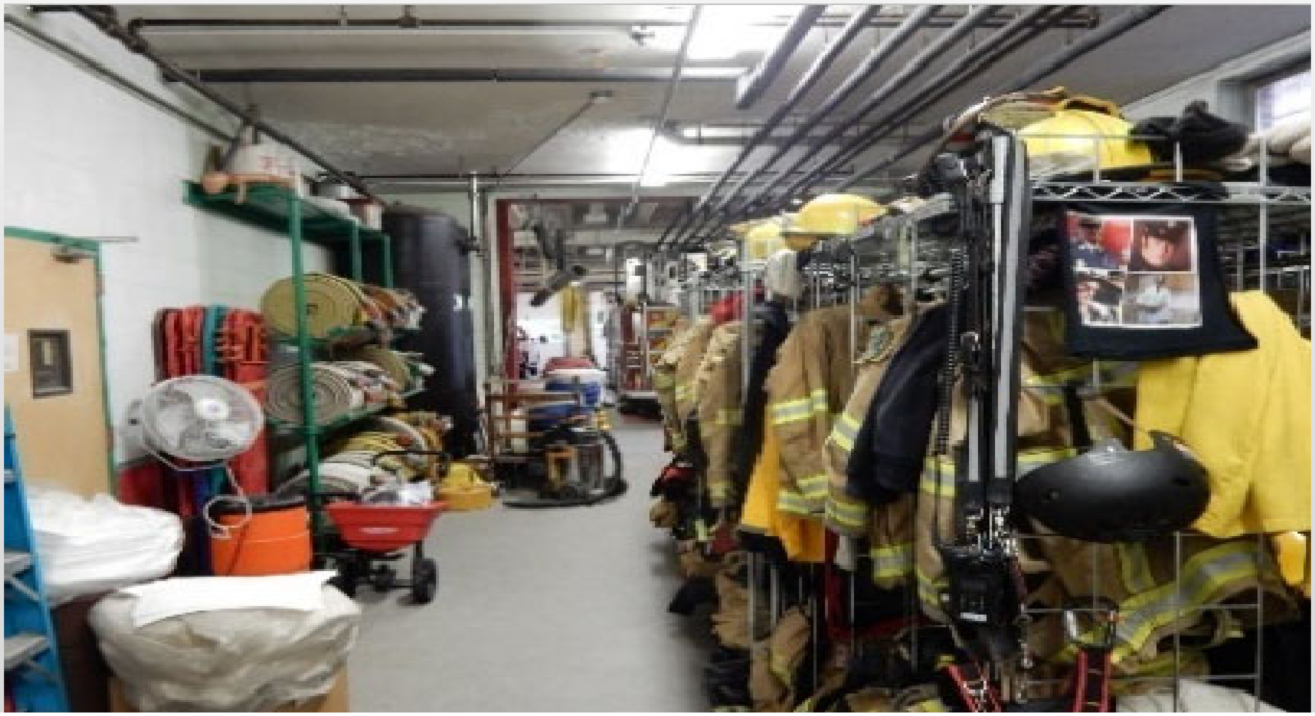


FUTURE DECON ZONES

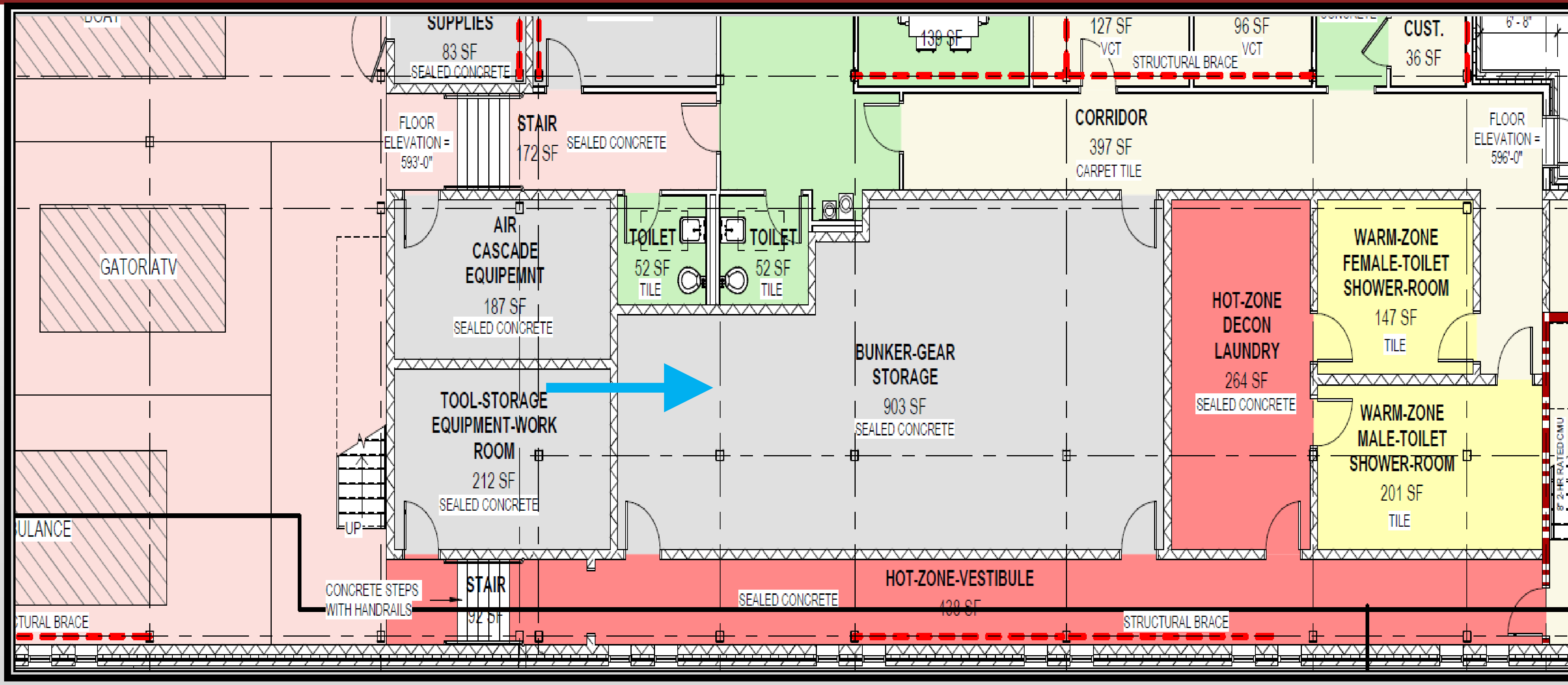


CURRENT PPE STORAGE

650 Square feet directly exposed to exhaust fumes and not stored in pressure-controlled environment with no room from growth.



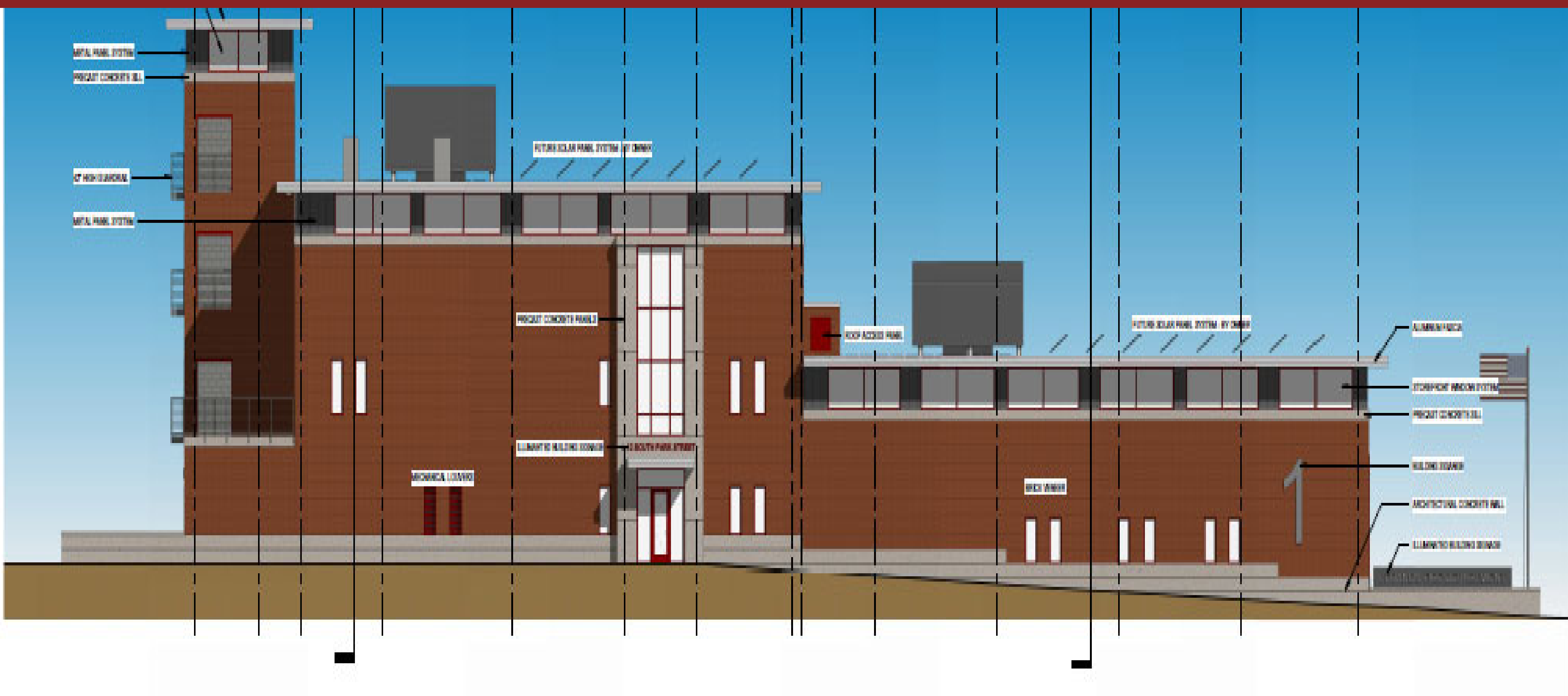
FUTURE PPE STORAGE



APPARATUS FLOOR

Located directly below administrative offices, Kitchen, Emergency Operation Center and Training Room. The space also does not allow for natural lighting.

FUTURE APPARATUS FLOOR



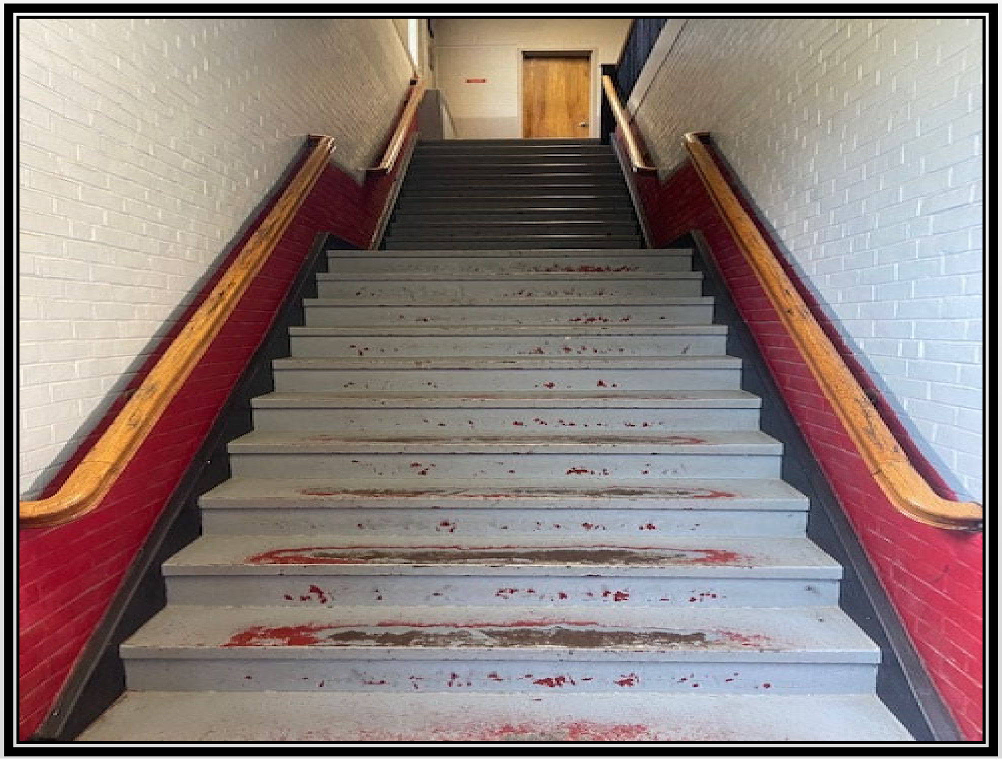
CURRENT APPARATUS DOORS

Current Door Height opening is 11 Feet

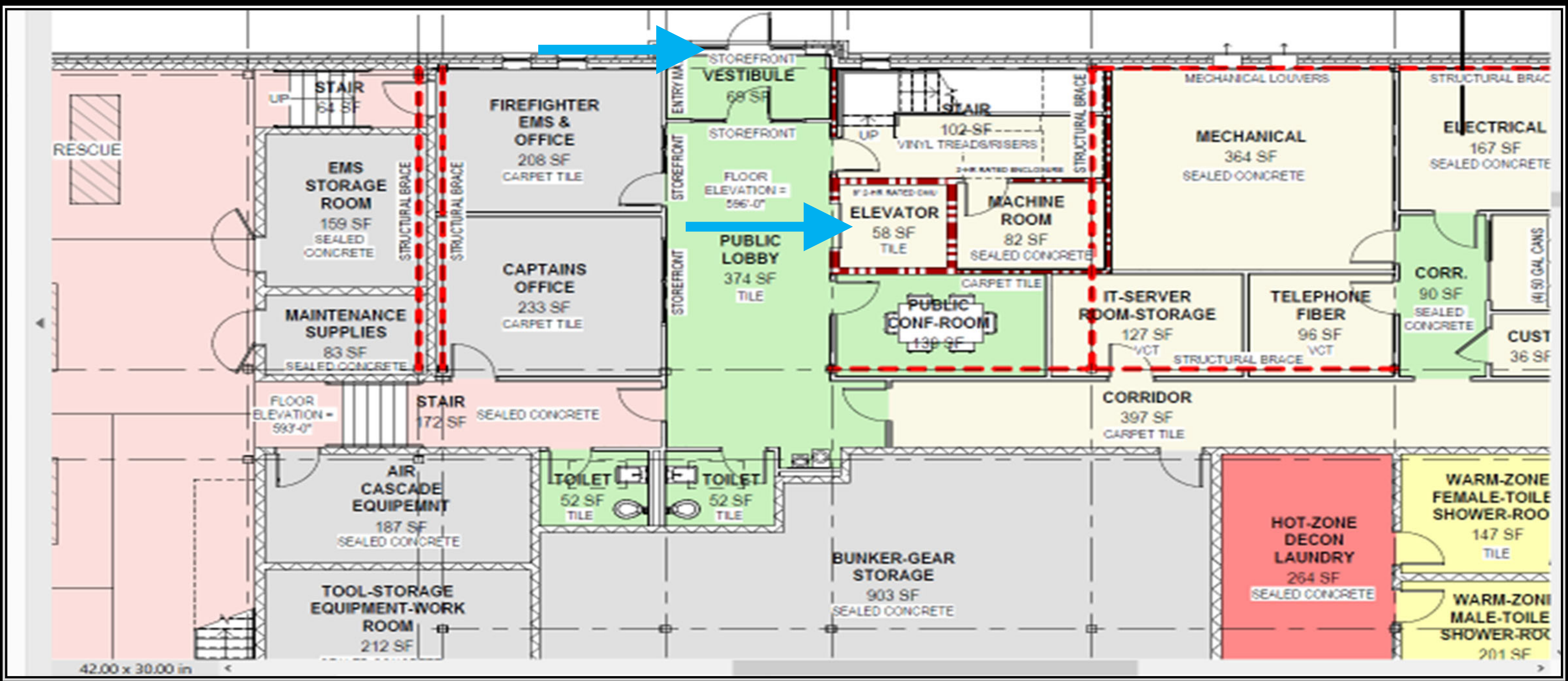
FUTURE DOOR HEIGHT

CURRENT LACK OF ADA COMPLIANCE

The current building is not ADA complaint and does not allow all members of the public to access our building.



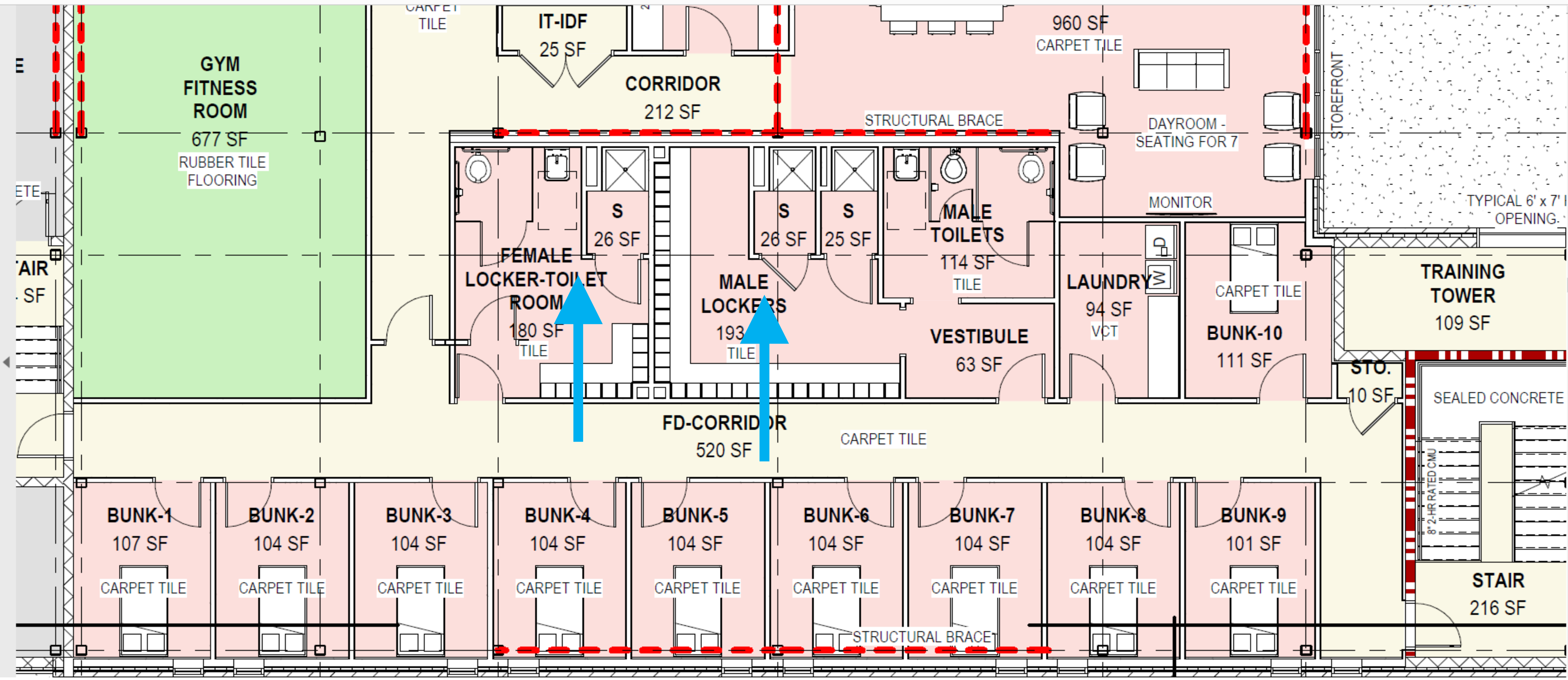
FUTURE ADA COMPLIANCE



BATHROOMS AND LOCKER ROOMS

Currently the second floor locker room is shared as a female locker room and unisex bathroom.

FUTURE LOCKER ROOM FACILITIES



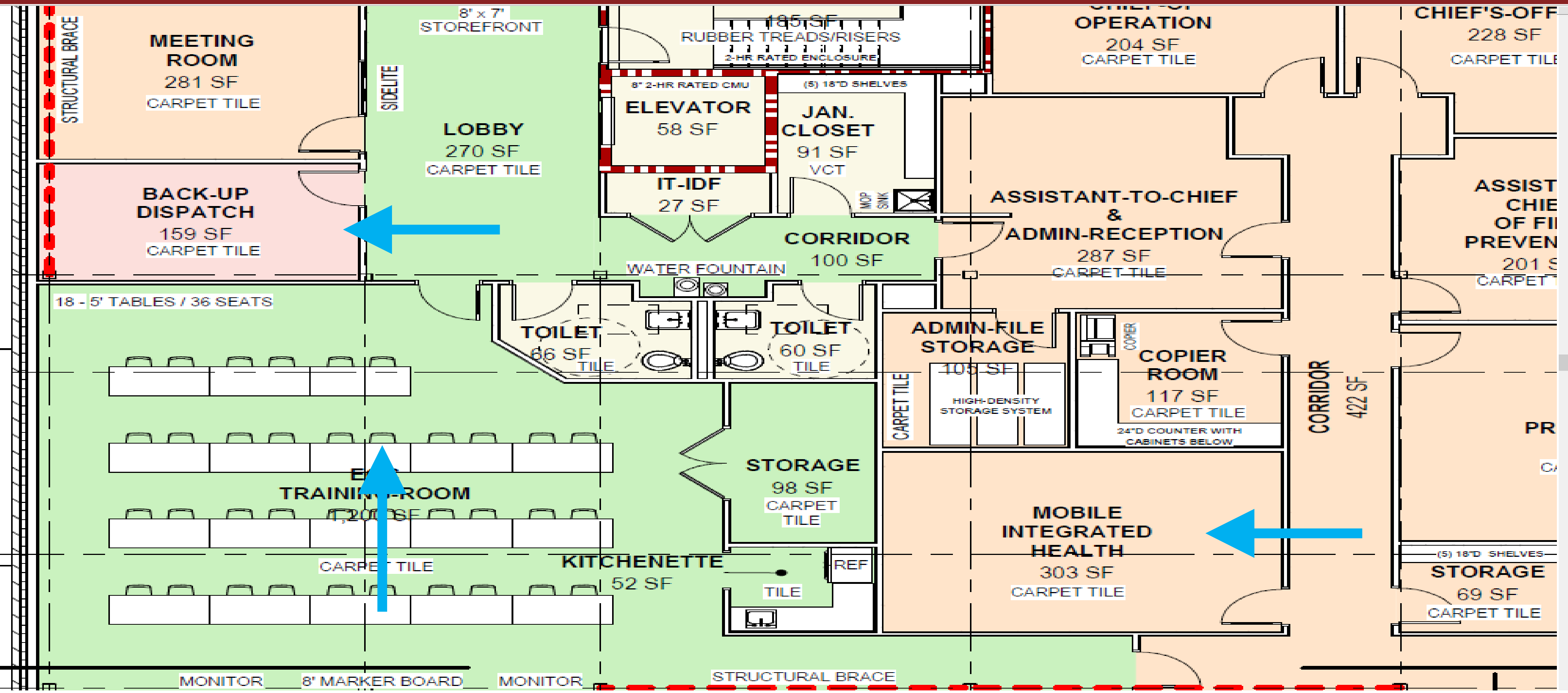
EMERGENCY OPERATIONS CENTER

The current EOC and training room are outdated and lacks the space and technology to meet the needs of community this size.

BACK UP DISPATCH/COMMUNITY HEALTH

Current back-up dispatch center serves as an office for three people in the Mobile Integrated/ Community Health Program

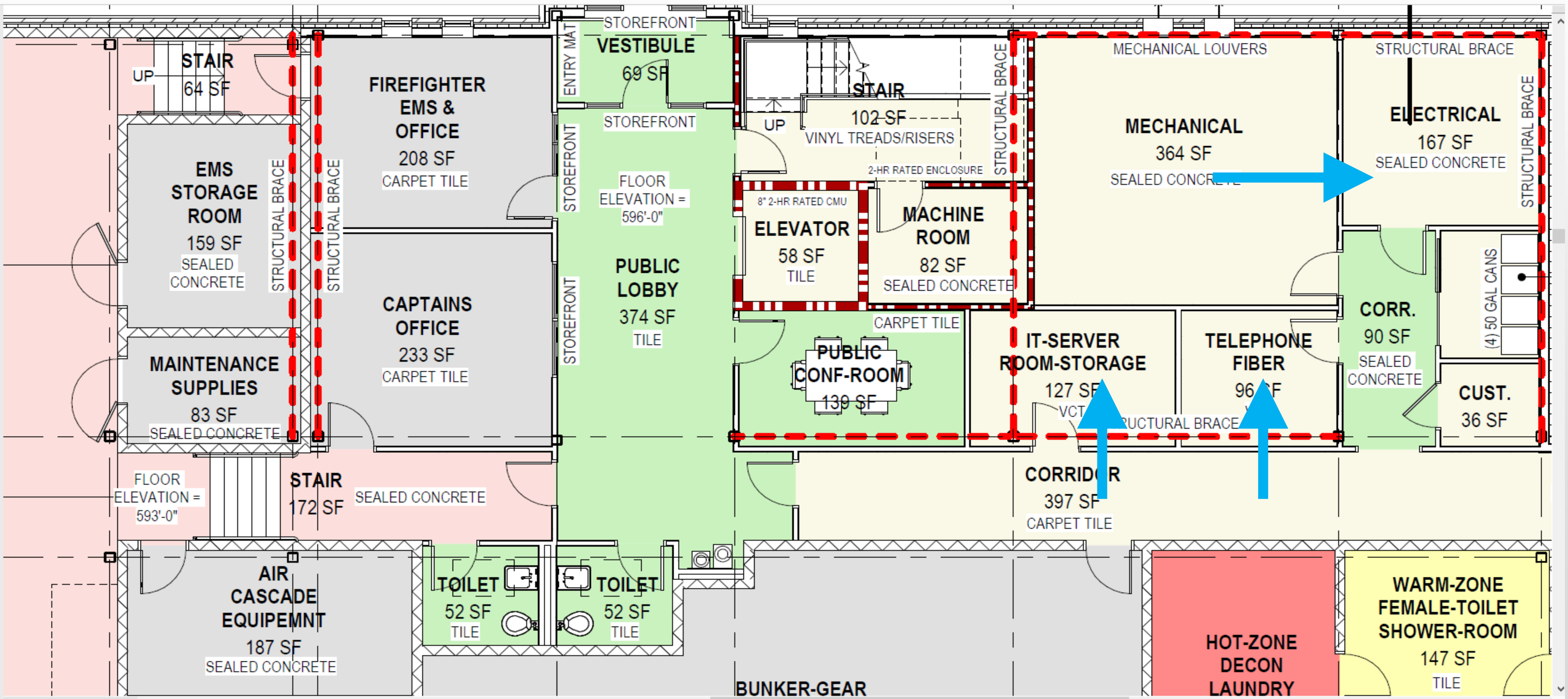
FUTURE EOC AND BACK UP DISPTACH CENTER



ALARMS ROOM

This room houses the entire municipal fire alarm circuit, one of the main radio sites for the public safety and the largest fiber hub for city infrastructure.

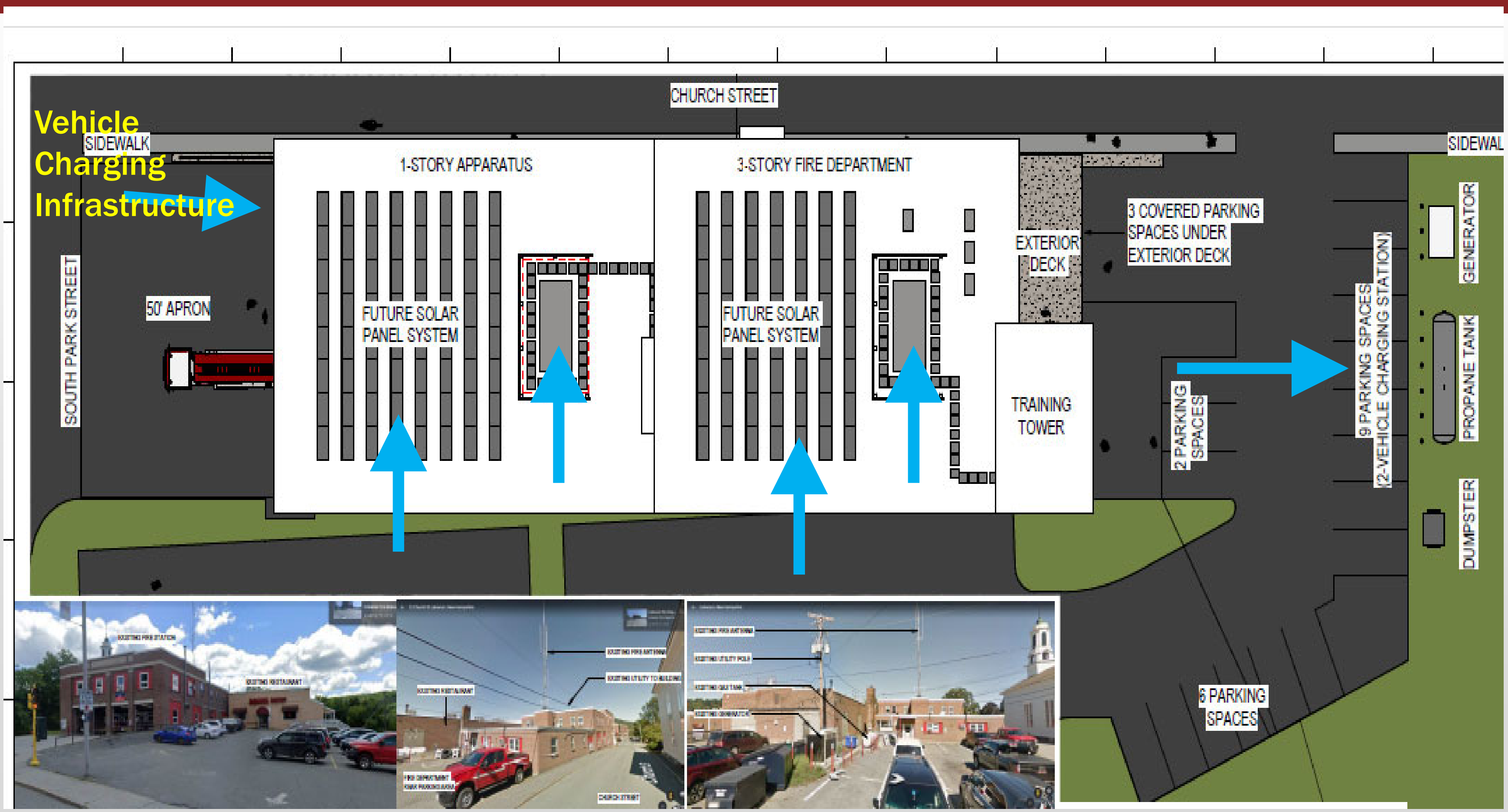
FUTURE ALARMS ROOM



CURRENT ENERGY EFFICIENCY GAPS

- NO HVAC
- No Solar
- Little to no insulation
- No electric vehicle charging infrastructure
- 12 portable window unit air conditioners used to cool areas of the building
- Poor functioning heat zones
- Poor energy building envelope

ENERGY UPGRADES

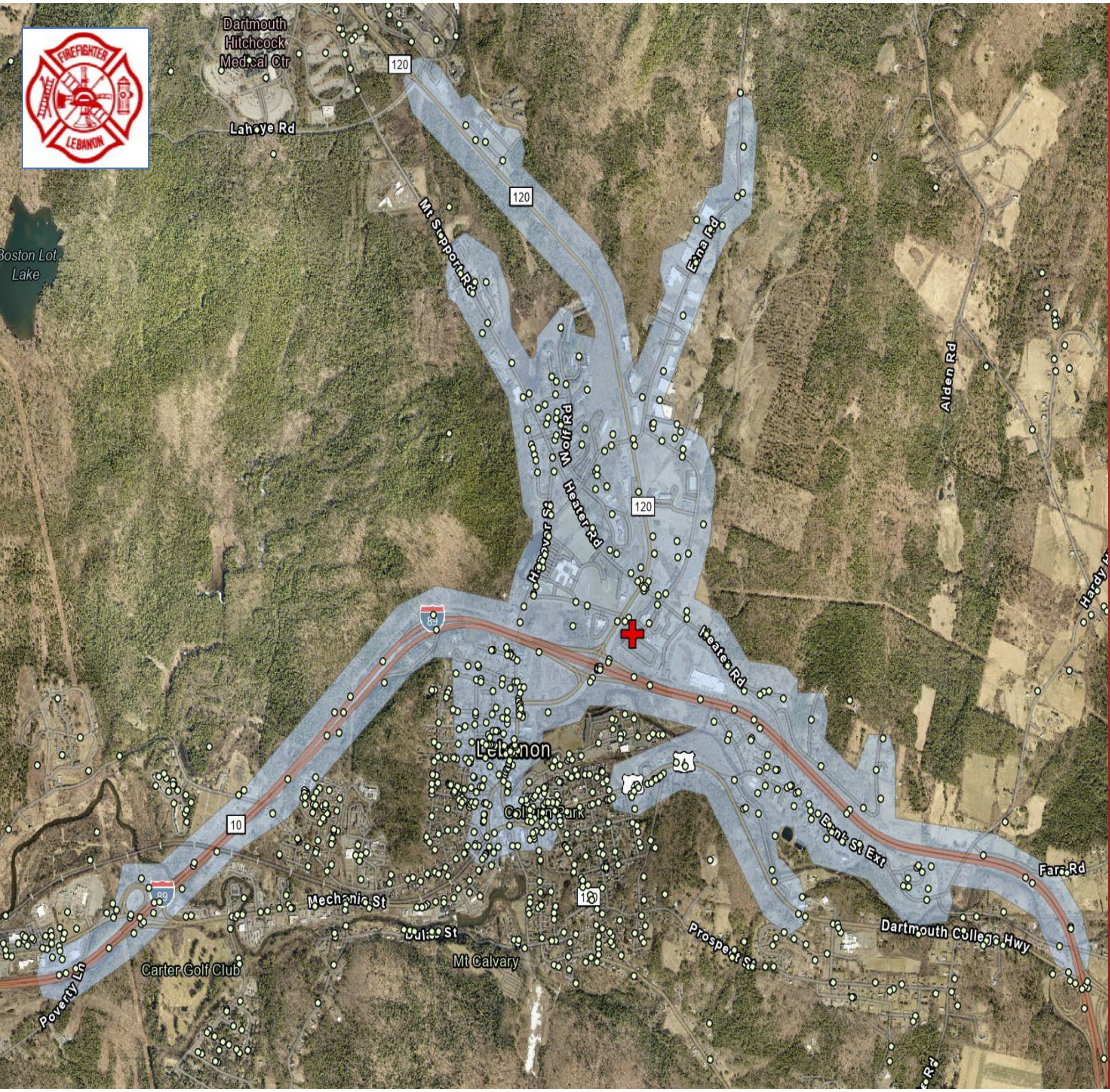


ADDITIONAL ENERGY UPGRADES

- Will meet or exceed the most current New Hampshire Energy Code
- Incorporate heat pump technology
- Installation of infrastructure that will assist us in working toward a NET Zero energy building.

LOCATION

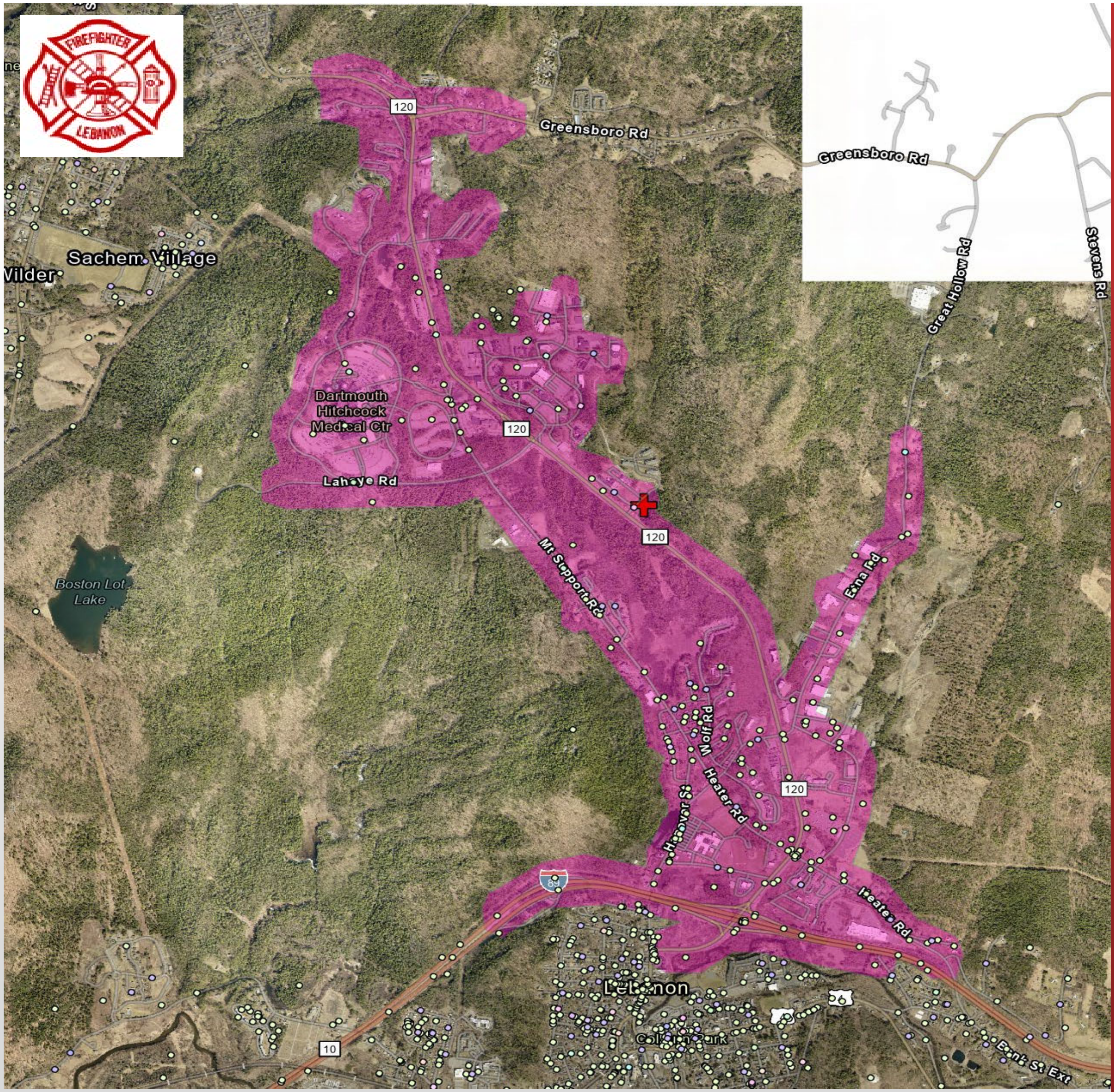
STATION	2018-2021 incidents Total	2018-2021 incidents 4min	2018-2021 incidents % Captured
Station #1 - S. Park St	11,383	4,512	40%
Station #2 - Main St	11,383	2,161	19%
Alta Blvd	11,383	2,321	20%
Hanover St Ext	11,383	2,861	25%
Little Heater Rd	11,383	2,925	26%
Liberty Utilities	11,383	3,949	35%
South Main St	11,383	2,368	21%



Little Heater Road

4 Minute Response Area = 26% of total calls

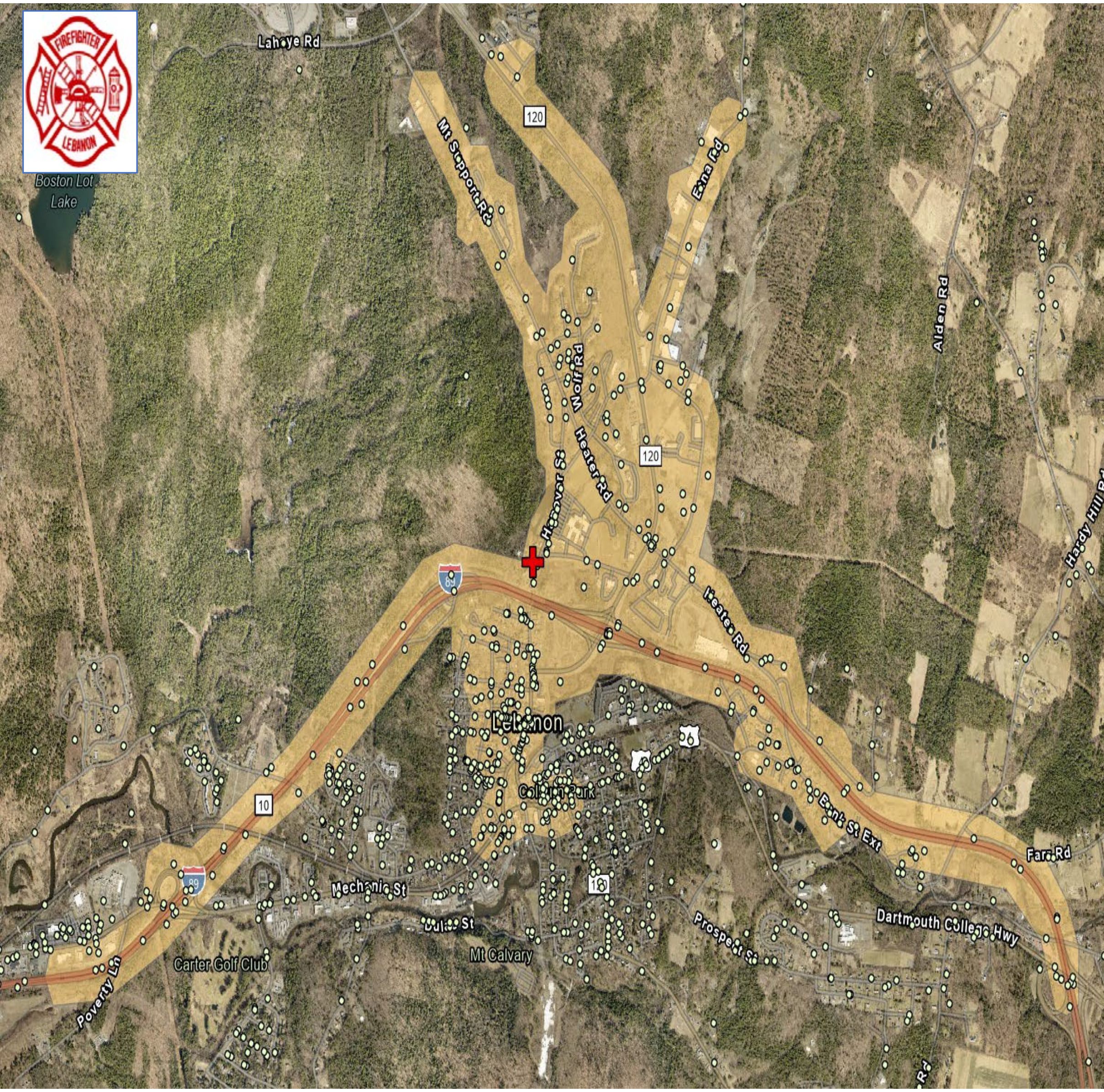
14% reduction of coverage from current location



ALTA BOULEVARD

4 minute response area = 20% of total Calls

20 % reduction in coverage from current location

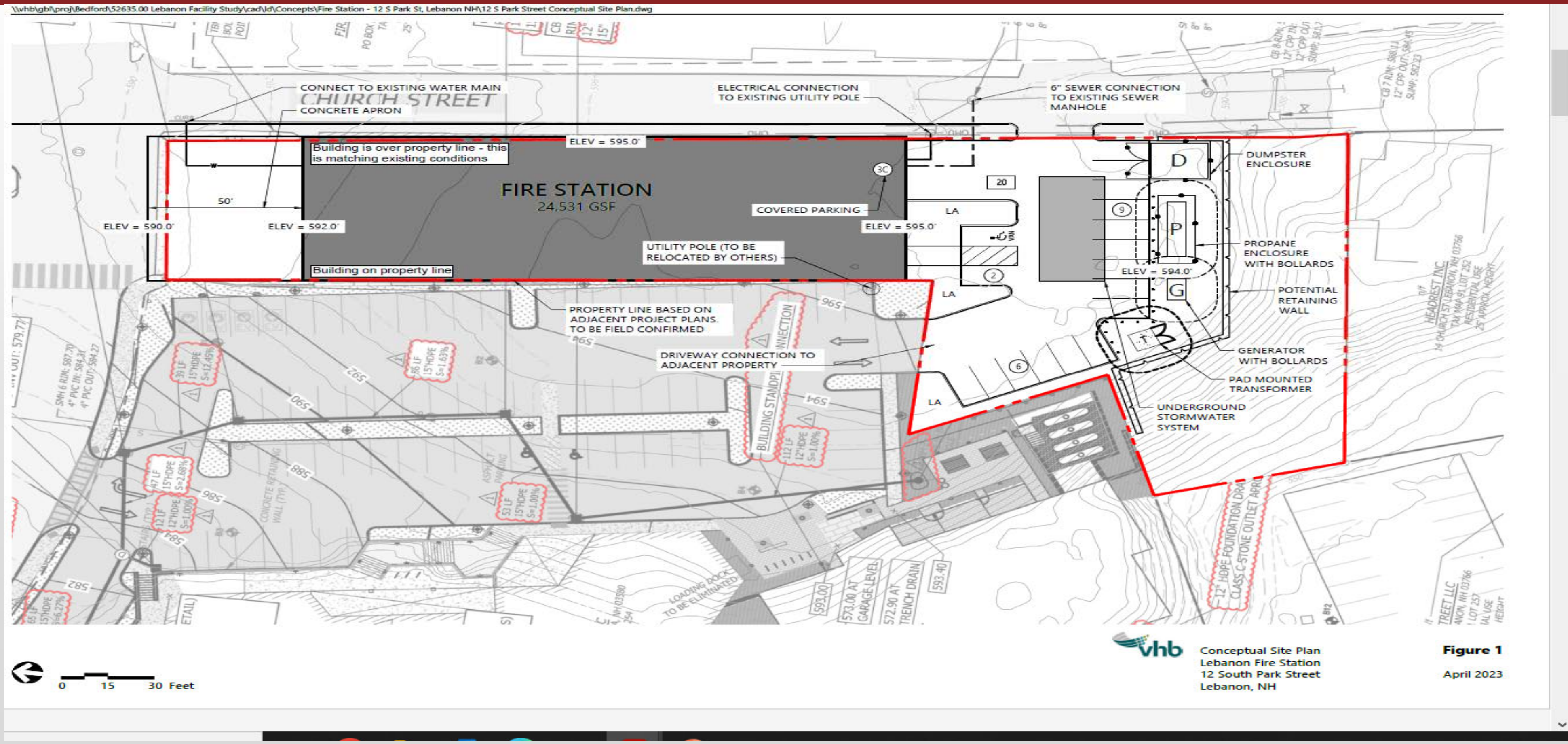


HANOVER STREET EXT.

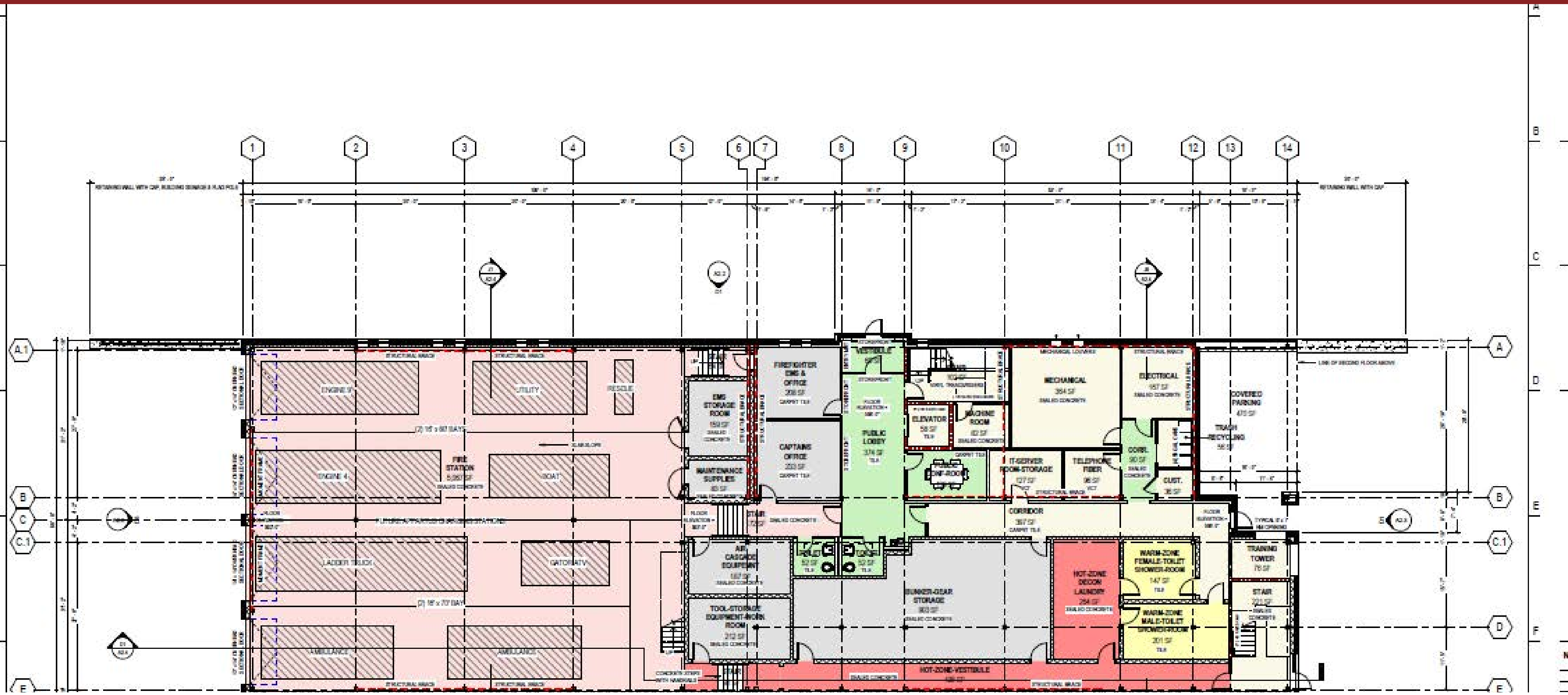
4 Minute Response Area = 25% of total calls

15% reduction of coverage from current location

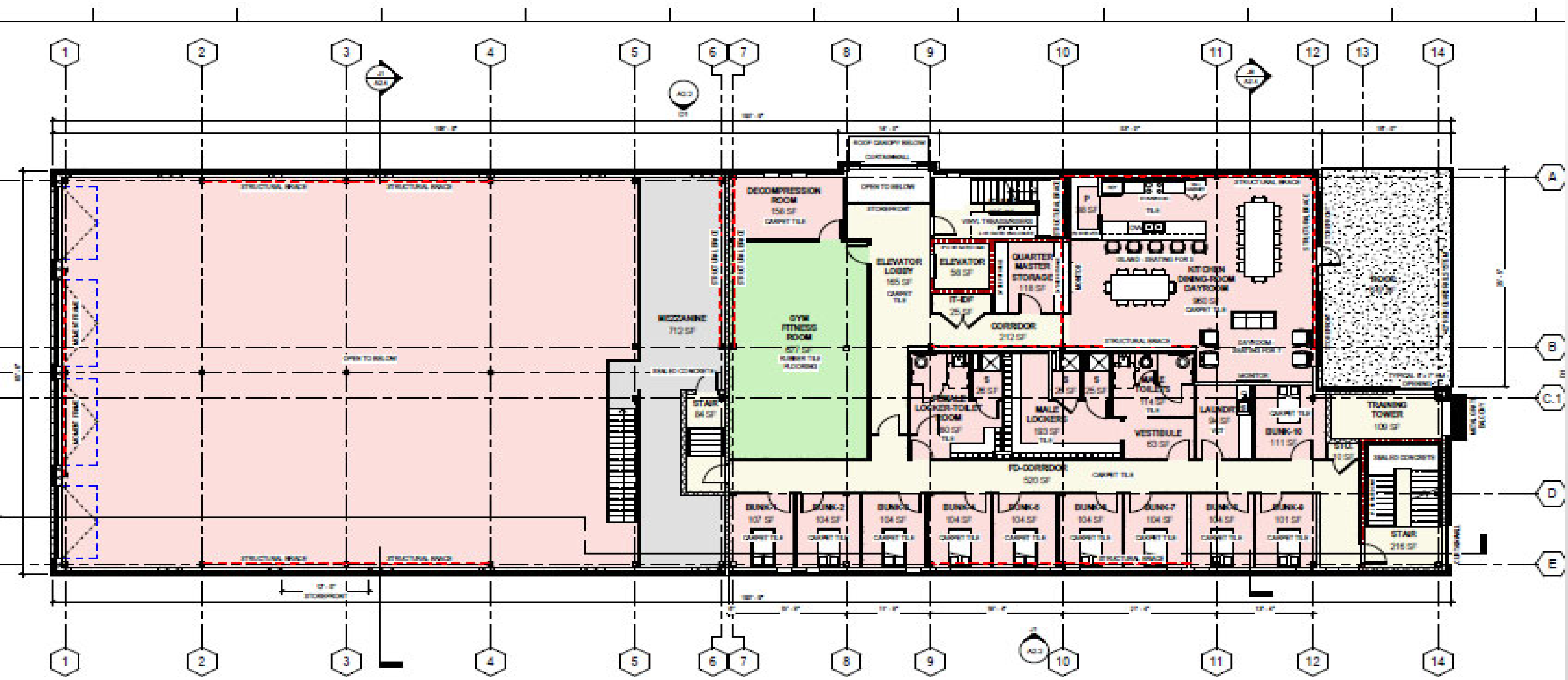
SITE PLAN


\\vhb\gbl\proj\Bedford\52635.00 Lebanon Facility Study\cad\ld\Concepts\Fire Station - 12 S Park St, Lebanon NH\12 S Park Street Conceptual Site Plan.dwg
CONNECT TO EXISTING WATER MAIN
CHURCH STREET
CONCRETE APRON
ELECTRICAL CONNECTION TO EXISTING UTILITY POLE
6" SEWER CONNECTION TO EXISTING SEWER MANHOLE
ELEV = 595.0'
Building is over property line - this is matching existing conditions
FIRE STATION
24,531 GSF
COVERED PARKING
50'
ELEV = 590.0'
ELEV = 592.0'
ELEV = 595.0'
UTILITY POLE (TO BE RELOCATED BY OTHERS)
Building on property line
DUMPSTER ENCLOSURE
PROPANE ENCLOSURE WITH BOLLARDS
ELEV = 594.0'
POTENTIAL RETAINING WALL
GENERATOR WITH BOLLARDS
PAD MOUNTED TRANSFORMER
UNDERGROUND STORMWATER SYSTEM
PROPERTY LINE BASED ON ADJACENT PROJECT PLANS. TO BE FIELD CONFIRMED
DRIVEWAY CONNECTION TO ADJACENT PROPERTY
LA
20
9
2
6
D
P
G
0 15 30 Feet
Conceptual Site Plan
Lebanon Fire Station
12 South Park Street
Lebanon, NH
Figure 1
April 2023

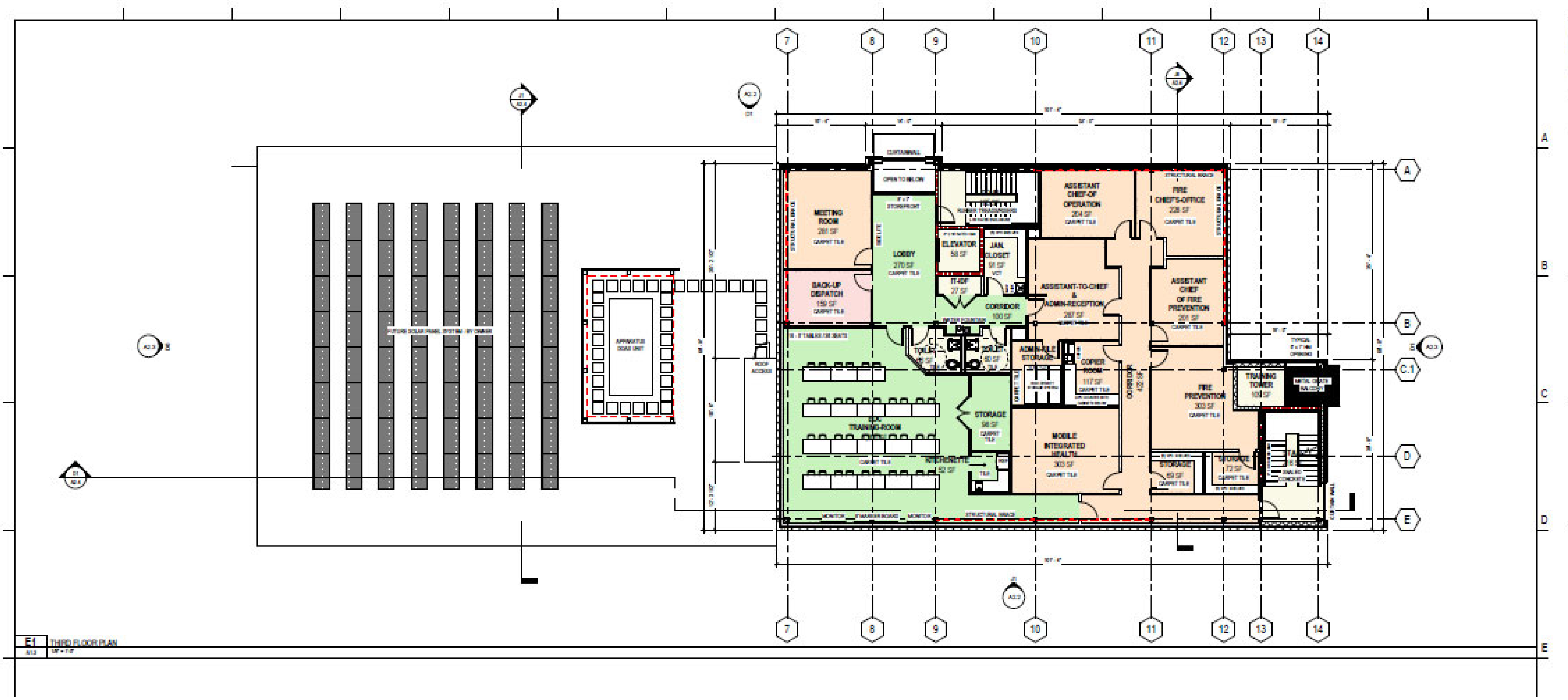
FIRST FLOOR


FIRE STATION
ENGINE 4
UTILITY
RESCUE
BOAT
LADDER TRUCK
GATOR/ATV
AMBULANCE
EMS STORAGE ROOM
MAINTENANCE SUPPLIES
FIREFIGHTER EMS & OFFICE
CAPTAINS OFFICE
VESTIBULE
PUBLIC LOBBY
ELEVATOR
MACHINE ROOM
MECHANICAL
ELECTRICAL
COVERED PARKING
TRASH RECYCLING
IT-SERVER ROOM-STORAGE
TELEPHONE FIBER
CORR.
CUST.
CORRIDOR
AIR CASCADE EQUIPMENT
TOOL-STORAGE EQUIPMENT-WORK ROOM
BUNKER-GEAR STORAGE
HOT-ZONE DECON LAUNDRY
WARM-ZONE FEMALE-TOILET SHOWER-ROOM
WARM-ZONE MALE-TOILET SHOWER-ROOM
TRAINING TOWER
STAIR
HOT-ZONE-VESTIBULE

SECOND FLOOR

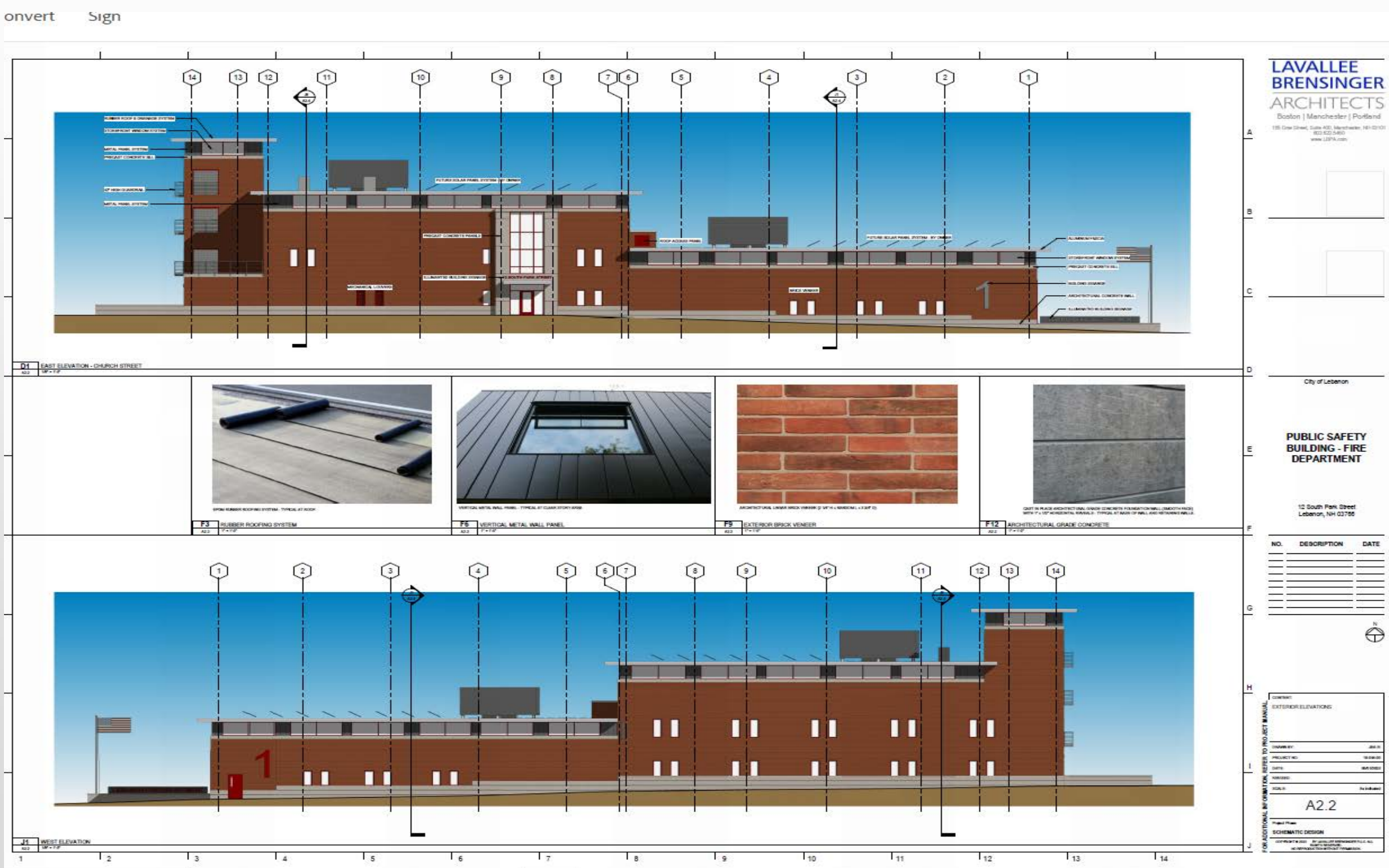


THIRD FLOOR

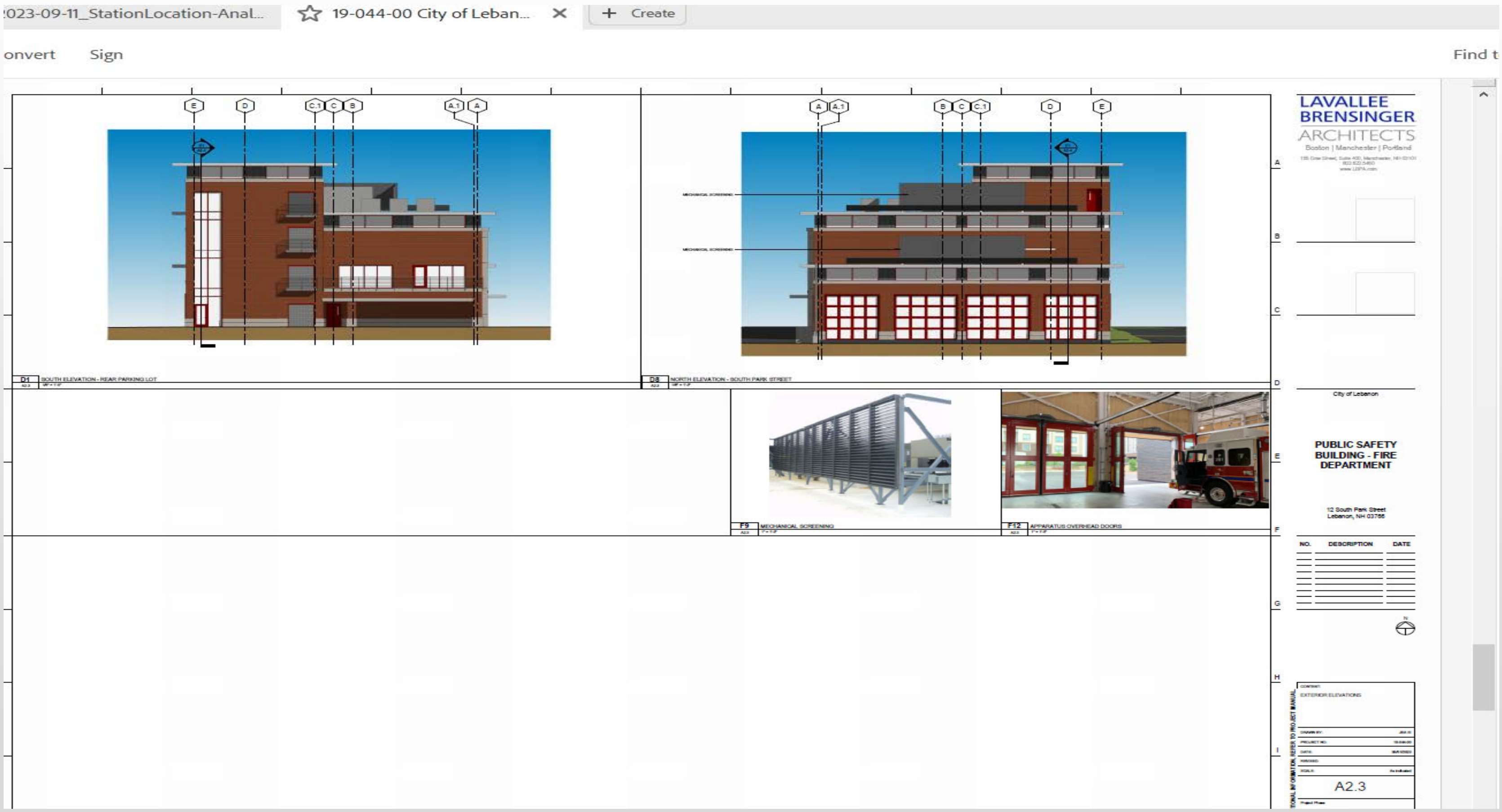


CONCEPTUAL DESIGN

CONCEPTUAL DESIGN



CONCEPTUAL DESIGN



OVERALL BENEFITS

- Reduced risk of occupational disease/death
- Increased room for immediate staffing needs
- Reduced energy consumption
- ADA accessible building with space for community meetings
- Modern emergency operations center
- Central station located in the most appropriate location to meet response time objectives

TEMPORARY RELOCATION

- Administrative personnel will relocate to the third floor of the Lebanon SAU building on Seminary Hill
- Operations staff and equipment will relocate to the public works facility on Dartmouth College Highway.

PROJECT BUDGET

Professional Fees

Architectural	$ 1,051,370
Civil/Landscaping	incl above
Structural	incl above
MEP/FP	Incl above
Professional Subtotal	$ 1,051,370

Construction Cost

Fire Station	$ 14,678,804
Demo and Site Work	$ 1,095,685
Temporary Fire Station	$ 1,106,820
Construction Subtotal	$ 16,881,309
Construction Escalation 2024 5.2%	$ 17,759,137

Owner Costs Permits

State Building permit, Utility Fees, Solar, Hazmat Abetment Furnishings, Equipment, Municipal Fire Alarm, Moving	$ 2,083,515
Owner Contingency	$ 1,775, 914

TOTAL PROJECT REQUEST:
$ 22,669,936.00

COST OFFSET

- The City will seek all possible tax incentives, grants and other financial assistance to offset the cost to the taxpayers.

TIMELINE

- December 2023 Request City Council Approval
- January 2024 Final Design
- July 2024 Temporary Relocation
- August 2024 Demolition of Current Fire Station
- September 2024 Construction of New Station Begins
- December 2025 Occupy New Fire Station

	LEVEL PRINCIPAL 20 YEARS			
	Fire Station 1 Replacement	Fire Station 1 Replacement	Fire Station 1 Replacement	
	2024	2025	2026	
	$2,000,000	$3,000,000	$17,669,940	
	5%	5%	5%	
	PRINCIPAL	**PRINCIPAL**	**PRINCIPAL**	**TOTAL**
2024	$100,000	$0	$0	**$100,000**
2025	$100,000	$150,000	$0	**$250,000**
2026	$100,000	$150,000	$883,497	**$1,133,497**
2027	$100,000	$150,000	$883,497	**$1,133,497**
2028	$100,000	$150,000	$883,497	**$1,133,497**
2029	$100,000	$150,000	$883,497	**$1,133,497**
2030	$100,000	$150,000	$883,497	**$1,133,497**
2031	$100,000	$150,000	$883,497	**$1,133,497**
2032	$100,000	$150,000	$883,497	**$1,133,497**
2033	$100,000	$150,000	$883,497	**$1,133,497**
2034	$100,000	$150,000	$883,497	**$1,133,497**
2035	$100,000	$150,000	$883,497	**$1,133,497**
2036	$100,000	$150,000	$883,497	**$1,133,497**
2037	$100,000	$150,000	$883,497	**$1,133,497**
2038	$100,000	$150,000	$883,497	**$1,133,497**
2039	$100,000	$150,000	$883,497	**$1,133,497**
2040	$100,000	$150,000	$883,497	**$1,133,497**
2041	$100,000	$150,000	$883,497	**$1,133,497**
2042	$100,000	$150,000	$883,497	**$1,133,497**
2043	$100,000	$150,000	$883,497	**$1,133,497**
2044	$0	$150,000	$883,497	**$1,033,497**
2045	$0	$0	$883,497	**$883,497**
	$2,000,000	**$3,000,000**	**$17,669,940**	**$22,669,940**
	INTEREST	**INTEREST**	**INTEREST**	**TOTAL**
2024	$100,000	$0	$0	**$100,000**
2025	$95,000	$150,000	$0	**$245,000**
2026	$90,000	$142,500	$883,497	**$1,115,997**
2027	$85,000	$135,000	$839,322	**$1,059,322**
2028	$80,000	$127,500	$795,147	**$1,002,647**
2029	$75,000	$120,000	$750,972	**$945,972**
2030	$70,000	$112,500	$706,798	**$889,298**
2031	$65,000	$105,000	$662,623	**$832,623**
2032	$60,000	$97,500	$618,448	**$775,948**
2033	$55,000	$90,000	$574,273	**$719,273**
2034	$50,000	$82,500	$530,098	**$662,598**
2035	$45,000	$75,000	$485,923	**$605,923**
2036	$40,000	$67,500	$441,749	**$549,249**
2037	$35,000	$60,000	$397,574	**$492,574**
2038	$30,000	$52,500	$353,399	**$435,899**
2039	$25,000	$45,000	$309,224	**$379,224**
2040	$20,000	$37,500	$265,049	**$322,549**
2041	$15,000	$30,000	$220,874	**$265,874**
2042	$10,000	$22,500	$176,699	**$209,199**
2043	$5,000	$15,000	$132,525	**$152,525**
2044	$0	$7,500	$88,350	**$95,850**
2045	$0	$0	$44,175	**$44,175**
	$1,050,000	**$1,575,000**	**$9,276,719**	**$11,901,719**
	PRIN & INT	**PRIN & INT**	**PRIN & INT**	**TOTAL**
2024	$200,000	$0	$0	**$200,000**
2025	$195,000	$300,000	$0	**$495,000**
2026	$190,000	$292,500	$1,766,994	**$2,249,494**
2027	$185,000	$285,000	$1,722,819	**$2,192,819**
2028	$180,000	$277,500	$1,678,644	**$2,136,144**
2029	$175,000	$270,000	$1,634,469	**$2,079,469**
2030	$170,000	$262,500	$1,590,295	**$2,022,795**
2031	$165,000	$255,000	$1,546,120	**$1,966,120**
2032	$160,000	$247,500	$1,501,945	**$1,909,445**
2033	$155,000	$240,000	$1,457,770	**$1,852,770**
2034	$150,000	$232,500	$1,413,595	**$1,796,095**
2035	$145,000	$225,000	$1,369,420	**$1,739,420**
2036	$140,000	$217,500	$1,325,246	**$1,682,746**
2037	$135,000	$210,000	$1,281,071	**$1,626,071**
2038	$130,000	$202,500	$1,236,896	**$1,569,396**
2039	$125,000	$195,000	$1,192,721	**$1,512,721**
2040	$120,000	$187,500	$1,148,546	**$1,456,046**
2041	$115,000	$180,000	$1,104,371	**$1,399,371**
2042	$110,000	$172,500	$1,060,196	**$1,342,696**
2043	$105,000	$165,000	$1,016,022	**$1,286,022**
2044	$0	$157,500	$971,847	**$1,129,347**
2045	$0	$0	$927,672	**$927,672**
	$3,050,000	**$4,575,000**	**$26,946,659**	**$34,571,659**

	LEVEL DEBT 20 YEARS			
	Fire Station 1 Replacement	Fire Station 1 Replacement	Fire Station 1 Replacement	
	2024	2025	2026	
	$2,000,000	$3,000,000	$17,669,940	
	5%	5%	5%	
	PRINCIPAL	**PRINCIPAL**	**PRINCIPAL**	**TOTAL**
2024	$5,000	$0	$0	$5,000
2025	$65,000	$0	$0	$65,000
2026	$70,000	$95,000	$0	$165,000
2027	$70,000	$105,000	$574,940	$749,940
2028	$75,000	$110,000	$605,000	$790,000
2029	$80,000	$115,000	$640,000	$835,000
2030	$85,000	$120,000	$670,000	$875,000
2031	$90,000	$125,000	$705,000	$920,000
2032	$90,000	$130,000	$740,000	$960,000
2033	$95,000	$140,000	$775,000	$1,010,000
2034	$100,000	$145,000	$815,000	$1,060,000
2035	$105,000	$150,000	$855,000	$1,110,000
2036	$110,000	$160,000	$900,000	$1,170,000
2037	$115,000	$170,000	$940,000	$1,225,000
2038	$125,000	$175,000	$990,000	$1,290,000
2039	$130,000	$185,000	$1,040,000	$1,355,000
2040	$135,000	$195,000	$1,090,000	$1,420,000
2041	$145,000	$205,000	$1,145,000	$1,495,000
2042	$150,000	$215,000	$1,205,000	$1,570,000
2043	$160,000	$225,000	$1,265,000	$1,650,000
2044	$0	$235,000	$1,325,000	$1,560,000
2045	$0	$0	$1,390,000	$1,390,000
	$2,000,000	**$3,000,000**	**$17,669,940**	**$22,669,940**
	INTEREST	**INTEREST**	**INTEREST**	**TOTAL**
2024	$100,000	$0	$0	$100,000
2025	$99,750	$150,000	$0	$249,750
2026	$96,500	$150,250	$883,497	$1,130,247
2027	$93,000	$145,250	$883,750	$1,122,000
2028	$89,500	$140,000	$854,750	$1,084,250
2029	$85,750	$134,500	$824,500	$1,044,750
2030	$81,750	$128,750	$792,500	$1,003,000
2031	$77,500	$122,750	$759,000	$959,250
2032	$73,000	$116,500	$723,750	$913,250
2033	$68,500	$110,000	$686,750	$865,250
2034	$63,750	$103,000	$648,000	$814,750
2035	$58,750	$95,750	$607,250	$761,750
2036	$53,500	$88,250	$564,500	$706,250
2037	$48,000	$80,250	$519,500	$647,750
2038	$42,250	$71,750	$472,500	$586,500
2039	$36,000	$63,000	$423,000	$522,000
2040	$29,500	$53,750	$371,000	$454,250
2041	$22,750	$44,000	$316,500	$383,250
2042	$15,500	$33,750	$259,250	$308,500
2043	$8,000	$23,000	$199,000	$230,000
2044	$0	$11,750	$135,750	$147,500
2045	$0	$0	$69,500	$69,500
	$1,243,250	**$1,866,250**	**$10,994,247**	**$14,103,747**
	PRIN & INT	**PRIN & INT**	**PRIN & INT**	**TOTAL**
2024	$105,000	$145,000	$0	$250,000
2025	$164,750	$250,250	$0	$415,000
2026	$166,500	$250,250	$878,437	$1,295,187
2027	$163,000	$250,000	$1,463,750	$1,876,750
2028	$164,500	$249,500	$1,459,750	$1,873,750
2029	$165,750	$248,750	$1,464,500	$1,879,000
2030	$166,750	$247,750	$1,462,500	$1,877,000
2031	$167,500	$246,500	$1,464,000	$1,878,000
2032	$163,000	$250,000	$1,463,750	$1,876,750
2033	$163,500	$248,000	$1,461,750	$1,873,250
2034	$163,750	$245,750	$1,463,000	$1,872,500
2035	$163,750	$248,250	$1,462,250	$1,874,250
2036	$163,500	$250,250	$1,464,500	$1,878,250
2037	$163,000	$246,750	$1,459,500	$1,869,250
2038	$167,250	$248,000	$1,462,500	$1,877,750
2039	$166,000	$248,750	$1,463,000	$1,877,750
2040	$164,500	$249,000	$1,461,000	$1,874,500
2041	$167,750	$248,750	$1,461,500	$1,878,000
2042	$165,500	$248,000	$1,464,250	$1,877,750
2043	$168,000	$246,750	$1,464,000	$1,878,750
2044	$0	$0	$1,460,750	$1,460,750
2045	$0	$0	$1,459,500	$1,459,500
	$3,243,250	**$4,866,250**	**$28,664,187**	**$36,773,687**

	LEVEL PRINCIPAL 29 YEARS					LEVEL DEBT 29 YEARS			
	Fire Station 1 Replacement	Fire Station 1 Replacement	Fire Station 1 Replacement			Fire Station 1 Replacement	Fire Station 1 Replacement	Fire Station 1 Replacement	
	2024	**2025**	**2026**			**2024**	**2025**	**2026**	
	$2,000,000	**$3,000,000**	**$17,669,940**			**$2,000,000**	**$3,000,000**	**$17,669,940**	
	5%	**5%**	**5%**			**5%**	**5%**	**5%**	
	PRINCIPLE	**PRINCIPLE**	**PRINCIPLE**	**TOTAL**		**PRINCIPLE**	**PRINCIPLE**	**PRINCIPLE**	**TOTAL**
2024	$68,966	$0.00	$0	$68,966	2024	$30,000	$0	$0	$30,000
2025	$68,966	$103,448	$0	$172,414	2025	$35,000	$5,000	$0	$40,000
2026	$68,966	$103,448	$609,308	$781,722	2026	$40,000	$50,000	$0	$90,000
2027	$68,966	$103,448	$609,308	$781,722	2027	$40,000	$55,000	$299,940	$394,940
2028	$68,966	$103,448	$609,308	$781,722	2028	$40,000	$55,000	$315,000	$410,000
2029	$68,966	$103,448	$609,308	$781,722	2029	$45,000	$60,000	$335,000	$440,000
2030	$68,966	$103,448	$609,308	$781,722	2030	$45,000	$65,000	$350,000	$460,000
2031	$68,966	$103,448	$609,308	$781,722	2031	$50,000	$65,000	$370,000	$485,000
2032	$68,966	$103,448	$609,308	$781,722	2032	$50,000	$70,000	$385,000	$505,000
2033	$68,966	$103,448	$609,308	$781,722	2033	$55,000	$70,000	$405,000	$530,000
2034	$68,966	$103,448	$609,308	$781,722	2034	$55,000	$75,000	$425,000	$555,000
2035	$68,966	$103,448	$609,308	$781,722	2035	$60,000	$80,000	$445,000	$585,000
2036	$68,966	$103,448	$609,308	$781,722	2036	$60,000	$85,000	$470,000	$615,000
2037	$68,966	$103,448	$609,308	$781,722	2037	$65,000	$90,000	$490,000	$645,000
2038	$68,966	$103,448	$609,308	$781,722	2038	$70,000	$90,000	$515,000	$675,000
2039	$68,966	$103,448	$609,308	$781,722	2039	$70,000	$95,000	$545,000	$710,000
2040	$68,966	$103,448	$609,308	$781,722	2040	$75,000	$100,000	$570,000	$745,000
2041	$68,966	$103,448	$609,308	$781,722	2041	$80,000	$105,000	$600,000	$785,000
2042	$68,966	$103,448	$609,308	$781,722	2042	$85,000	$110,000	$630,000	$825,000
2043	$68,966	$103,448	$609,308	$781,722	2043	$85,000	$115,000	$660,000	$860,000
2044	$68,966	$103,448	$609,308	$781,722	2044	$90,000	$125,000	$695,000	$910,000
2045	$68,966	$103,448	$609,308	$781,722	2045	$95,000	$130,000	$730,000	$955,000
2046	$68,966	$103,448	$609,308	$781,722	2046	$100,000	$135,000	$765,000	$1,000,000
2047	$68,966	$103,448	$609,308	$781,722	2047	$105,000	$145,000	$805,000	$1,055,000
2048	$68,966	$103,448	$609,308	$781,722	2048	$110,000	$150,000	$845,000	$1,105,000
2049	$68,966	$103,448	$609,308	$781,722	2049	$115,000	$160,000	$885,000	$1,160,000
2050	$68,966	$103,448	$609,308	$781,722	2050	$120,000	$165,000	$930,000	$1,215,000
2051	$68,966	$103,448	$609,308	$781,722	2051	$130,000	$175,000	$975,000	$1,280,000
2052	$68,966	$103,448	$609,308	$781,722	2052	$0	$185,000	$1,025,000	$1,210,000
2053	$0	$103,448	$609,308	$712,756	2053	$0	$190,000	$1,075,000	$1,265,000
2054	$0	$0	$609,316	$609,316	2054	$0	$0	$1,130,000	$1,130,000
	$2,000,000	**$3,000,000**	**$17,669,940**	**$22,669,940**		**$2,000,000**	**$3,000,000**	**$17,669,940**	**$22,669,940**
	INTEREST	**INTEREST**	**INTEREST**	**TOTAL**		**INTEREST**	**INTEREST**	**INTEREST**	**TOTAL**
2024	$100,000	$0.00	$0.00	$100,000	2024	$100,000	$0	$0	$100,000
2025	$96,552	$150,000	$0.00	$246,552	2025	$100,250	$150,000	$0	$250,250
2026	$93,103	$144,828	$883,497	$1,121,428	2026	$98,500	$149,750	$883,497	$1,131,747
2027	$89,655	$139,655	$853,032	$1,082,342	2027	$96,750	$147,250	$883,500	$1,127,500
2028	$86,207	$134,483	$822,566	$1,043,256	2028	$94,750	$144,500	$868,500	$1,107,750
2029	$82,759	$129,310	$792,101	$1,004,170	2029	$92,750	$141,750	$852,750	$1,087,250
2030	$79,310	$124,138	$761,635	$965,083	2030	$90,750	$138,750	$836,000	$1,065,500
2031	$75,862	$118,966	$731,170	$925,998	2031	$88,500	$135,500	$818,500	$1,042,500
2032	$72,414	$113,793	$700,705	$886,912	2032	$86,250	$132,250	$800,000	$1,018,500
2033	$68,966	$108,621	$670,239	$847,825	2033	$83,750	$128,750	$780,750	$993,250
2034	$65,517	$103,448	$639,774	$808,740	2034	$81,250	$125,250	$760,500	$967,000
2035	$62,069	$98,276	$609,308	$769,653	2035	$78,500	$121,500	$739,250	$939,250
2036	$58,621	$93,103	$578,843	$730,567	2036	$75,750	$117,500	$717,000	$910,250
2037	$55,172	$87,931	$548,377	$691,480	2037	$72,750	$113,250	$693,500	$879,500
2038	$51,724	$82,759	$517,912	$652,395	2038	$69,750	$108,750	$669,000	$847,500
2039	$48,276	$77,586	$487,447	$613,309	2039	$66,500	$104,250	$643,250	$814,000
2040	$44,828	$72,414	$456,981	$574,222	2040	$63,000	$99,500	$616,000	$778,500
2041	$41,379	$67,241	$426,516	$535,137	2041	$59,500	$94,500	$587,500	$741,500
2042	$37,931	$62,069	$396,050	$496,050	2042	$55,750	$89,250	$557,500	$702,500
2043	$34,483	$56,897	$365,585	$456,964	2043	$51,750	$83,750	$526,000	$661,500
2044	$31,034	$51,724	$335,120	$417,879	2044	$47,500	$78,000	$493,000	$618,500
2045	$27,586	$46,552	$304,654	$378,792	2045	$43,250	$71,750	$458,250	$573,250
2046	$24,138	$41,379	$274,189	$339,706	2046	$38,750	$65,250	$421,750	$525,750
2047	$20,690	$36,207	$243,723	$300,620	2047	$34,000	$58,500	$383,500	$476,000
2048	$17,241	$31,034	$213,258	$261,534	2048	$29,000	$51,250	$343,250	$423,500
2049	$13,793	$25,862	$182,792	$222,447	2049	$23,750	$43,750	$301,000	$368,500
2050	$10,345	$20,690	$152,327	$183,361	2050	$18,250	$35,750	$256,750	$310,750
2051	$6,897	$15,517	$121,862	$144,276	2051	$12,500	$27,500	$210,250	$250,250
2052	$3,448	$10,345	$91,396	$105,189	2052	$6,500	$18,750	$161,500	$186,750
2053	0	$5,172	$60,931	$66,103	2053	$0	$9,500	$110,250	$119,750
2054	0	0	$30,465	$30,465	2054	$0	$0	$56,500	$56,500
	$1,500,000	**$2,250,000**	**$13,252,455**	**$17,002,455**		**$1,860,250**	**$2,786,000**	**$16,428,997**	**$21,075,247**
	PRIN & INT	**PRIN & INT**	**PRIN & INT**	**TOTAL**		**PRIN & INT**	**PRIN & INT**	**PRIN & INT**	**TOTAL**
2024	$168,966	0	$0	$168,966	2024	$130,000	$0	$0	$130,000
2025	$165,517	$253,448	$0	$418,966	2025	$135,250	$155,000	$0	$290,250
2026	$162,069	$248,276	$1,492,805	$1,903,150	2026	$138,500	$199,750	$883,497	$1,221,747
2027	$158,621	$243,103	$1,462,340	$1,864,064	2027	$136,750	$202,250	$1,183,440	$1,522,440
2028	$155,172	$237,931	$1,431,874	$1,824,977	2028	$134,750	$199,500	$1,183,500	$1,517,750
2029	$151,724	$232,759	$1,401,409	$1,785,892	2029	$137,750	$201,750	$1,187,750	$1,527,250
2030	$148,276	$227,586	$1,370,943	$1,746,805	2030	$135,750	$203,750	$1,186,000	$1,525,500
2031	$144,828	$222,414	$1,340,478	$1,707,719	2031	$138,500	$200,500	$1,188,500	$1,527,500
2032	$141,379	$217,241	$1,310,013	$1,668,634	2032	$136,250	$202,250	$1,185,000	$1,523,500
2033	$137,931	$212,069	$1,279,547	$1,629,547	2033	$138,750	$198,750	$1,185,750	$1,523,250
2034	$134,483	$206,897	$1,249,082	$1,590,461	2034	$136,250	$200,250	$1,185,500	$1,522,000
2035	$131,034	$201,724	$1,218,616	$1,551,375	2035	$138,500	$201,500	$1,184,250	$1,524,250
2036	$127,586	$196,552	$1,188,151	$1,512,289	2036	$135,750	$202,500	$1,187,000	$1,525,250
2037	$124,138	$191,379	$1,157,685	$1,473,202	2037	$137,750	$203,250	$1,183,500	$1,524,500
2038	$120,690	$186,207	$1,127,220	$1,434,117	2038	$139,750	$198,750	$1,184,000	$1,522,500
2039	$117,241	$181,034	$1,096,755	$1,395,031	2039	$136,500	$199,250	$1,188,250	$1,524,000
2040	$113,793	$175,862	$1,066,289	$1,355,944	2040	$138,000	$199,500	$1,186,000	$1,523,500
2041	$110,345	$170,690	$1,035,824	$1,316,858	2041	$139,500	$199,500	$1,187,500	$1,526,500
2042	$106,897	$165,517	$1,005,358	$1,277,772	2042	$140,750	$199,250	$1,187,500	$1,527,500
2043	$103,448	$160,345	$974,893	$1,238,686	2043	$136,750	$198,750	$1,186,000	$1,521,500
2044	$100,000	$155,172	$944,428	$1,199,600	2044	$137,500	$203,000	$1,188,000	$1,528,500
2045	$96,552	$150,000	$913,962	$1,160,514	2045	$138,250	$201,750	$1,188,250	$1,528,250
2046	$93,103	$144,828	$883,497	$1,121,428	2046	$138,750	$200,250	$1,186,750	$1,525,750
2047	$89,655	$139,655	$853,031	$1,082,341	2047	$139,000	$203,500	$1,188,500	$1,531,000
2048	$86,207	$134,483	$822,566	$1,043,256	2048	$139,000	$201,250	$1,188,250	$1,528,500
2049	$82,759	$129,310	$792,100	$1,004,169	2049	$138,750	$203,750	$1,186,000	$1,528,500
2050	$79,310	$124,138	$761,635	$965,083	2050	$138,250	$200,750	$1,186,750	$1,525,750
2051	$75,862	$118,966	$731,170	$925,998	2051	$142,500	$202,500	$1,185,250	$1,530,250
2052	$72,414	$113,793	$700,704	$886,911	2052	$6,500	$203,750	$1,186,500	$1,396,750
2053	$0	$108,621	$670,239	$778,860	2053	$0	$199,500	$1,185,250	$1,384,750
2054	$0	$0	$639,781	$639,781	2054	$0	$0	$1,186,500	$1,186,500
	$3,500,000	**$5,250,000**	**$30,922,395**	**$39,672,395**		**$3,595,000**	**$5,631,000**	**$34,098,937**	**$43,745,187**

LEVEL PRINCIPAL 20 YEARS						LEVEL DEBT 20 YEARS			
Fire Station 1 Replacement 2024	Fire Station 1 Replacement 2025	Fire Station 1 Replacement 2026	TOTAL			Fire Station 1 Replacement 2024	Fire Station 1 Replacement 2025	Fire Station 1 Replacement 2026	TOTAL
$3,050,000	$4,575,000	$26,946,659	$34,571,659			$3,243,250	$4,866,250	$28,664,187	$36,773,687
SAVINGS LEVEL PRINCIPAL VERSUS LEVEL DEBT 20 YEARS			**$2,202,028**						

LEVEL PRINCIPAL 29 YEARS						LEVEL DEBT 29 YEARS			
Fire Station 1 Replacement 2024	Fire Station 1 Replacement 2025	Fire Station 1 Replacement 2026	TOTAL			Fire Station 1 Replacement 2024	Fire Station 1 Replacement 2025	Fire Station 1 Replacement 2026	TOTAL
$3,500,000	$5,250,000	$30,922,395	$39,672,395			$3,595,000	$5,631,000	$34,098,937	$43,745,187
SAVINGS LEVEL PRINCIPAL VERSUS LEVEL DEBT 29 YEARS			**$4,072,792**						