Town of Lenox Public Safety Facility Study

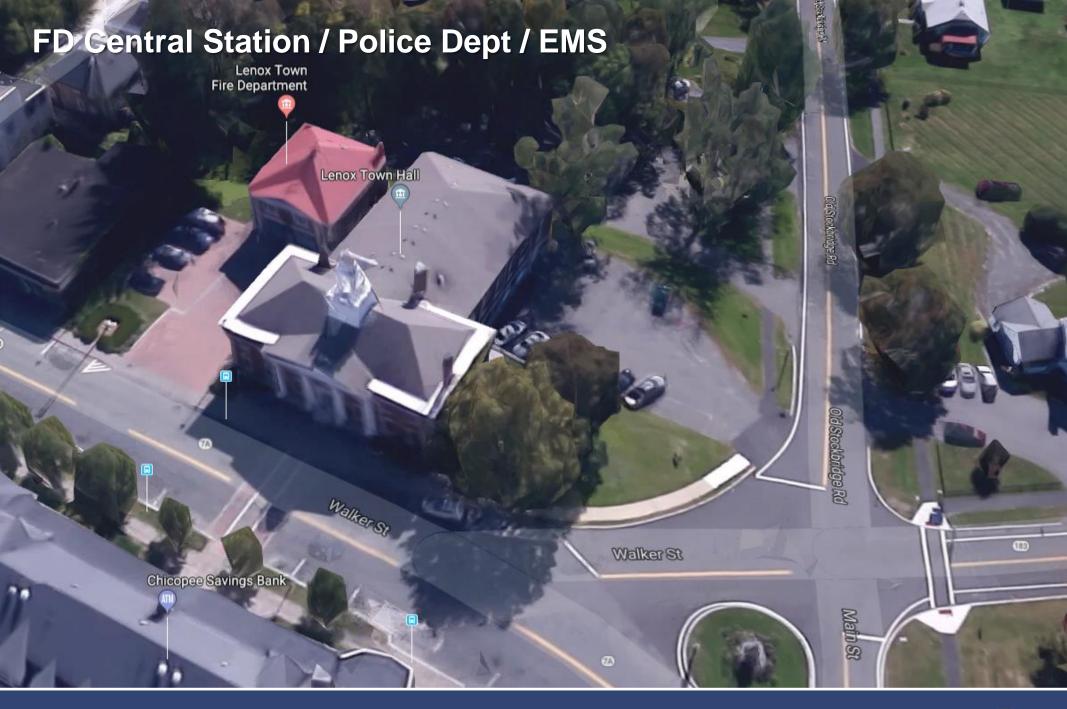








September 11, 2019







Fire Department Existing Conditions

Code Upgrades: Items Solution **Priority** Add a second means of egress Rated stair tower addition Fire rating between floors New first floor ceilings & doors Accessible entrance **Elevator addition Accessible rest rooms** Renovate bathroom Add male & female bathrooms Lacks separate male & female bathrooms **Accessibility – General** New doors, hardware, signage **Emergency Lighting New light fixtures** Emergency electrical panel within non-rated room Construct a rated room at electrical panel Fire detection (outdated) Replace fire alarm system **Generator rating & location** Replace generator **Energy Code requirements** Insulate wall and attic New lighting, occupancy sensors Replace heating system *Priority 1 = Mandatory, 2 = Recommended, 3 = Discretionary*





Fire Department Existing Conditions

Building Upgrades:

<u>Items</u>	<u>Solution</u>	<u>Priority</u>
Severe cracking at southwest corner	Structural repair / brick replacement	1
Building Repointing	Repoint approx. 25% of building	1
Replace HVAC System	New boiler / Add AC & ventilation	1
Replace plumbing distribution	Replace piping, valve, fitting & fixtures	2
Replace Electrical System	New service and distribution	1
Communication / Data / IT	Upgrade system throughout building	1
Upgrade building finishes	New ceilings, flooring, walls, paint	2
Add fire protection system	Install sprinklers throughout building	3





Fire Department Existing Conditions

Program Upgrades:

<u>Items</u>	<u>Solution</u>	<u>Priority</u>
Apparatus Bay	Addition of 3,030 sq. ft.	1
Administration Offices	Addition of 650 sq. ft.	1
Decontamination Room	Addition of 200 sq. ft.	1
Medical Storage / EMT Room	Addition of 100 sq. ft.	1
Male & Female Locker Rooms	Addition of 500 sq. ft.	2
Bunk Rooms	Addition of 500 sq. ft	3



^{*} Additional sq. ft. areas do not include a circulation factor

Police Department Existing Conditions

Code Upgrades:

<u>Solution</u>	<u>Priority</u>
Replace electrical service to the building	1
Replace system under renovations	1
Replace / Add emergency lighting	1
Upgrade ventilation per DPH & grills	1
Replace combo units per DPH codes	1
Renovate & replace counters / doors & cell	1
Relocate one cell for complete separation	1
	Replace electrical service to the building Replace system under renovations Replace / Add emergency lighting Upgrade ventilation per DPH & grills Replace combo units per DPH codes Renovate & replace counters / doors & cell





Police Department Existing Conditions

Building Upgrades:

<u>Items</u>	<u>Solution</u>	<u>Priority</u>
Entrance door deterioration	Replace entrance storefront	1
Electrical upgrades	New panels & distribution	2
Communication/Data/IT (camera) upgrades	Replace systems	2
Generator – 50 years old	Replace generator & increase size	2
HVAC air handling units - 20 years old	Replace HVAC units	2
HVAC control issues	HVAC controls (equipment & software)	3
Finish upgrades – general	Replace ceramic tile, flooring, paint	3





Police Department Existing Conditions

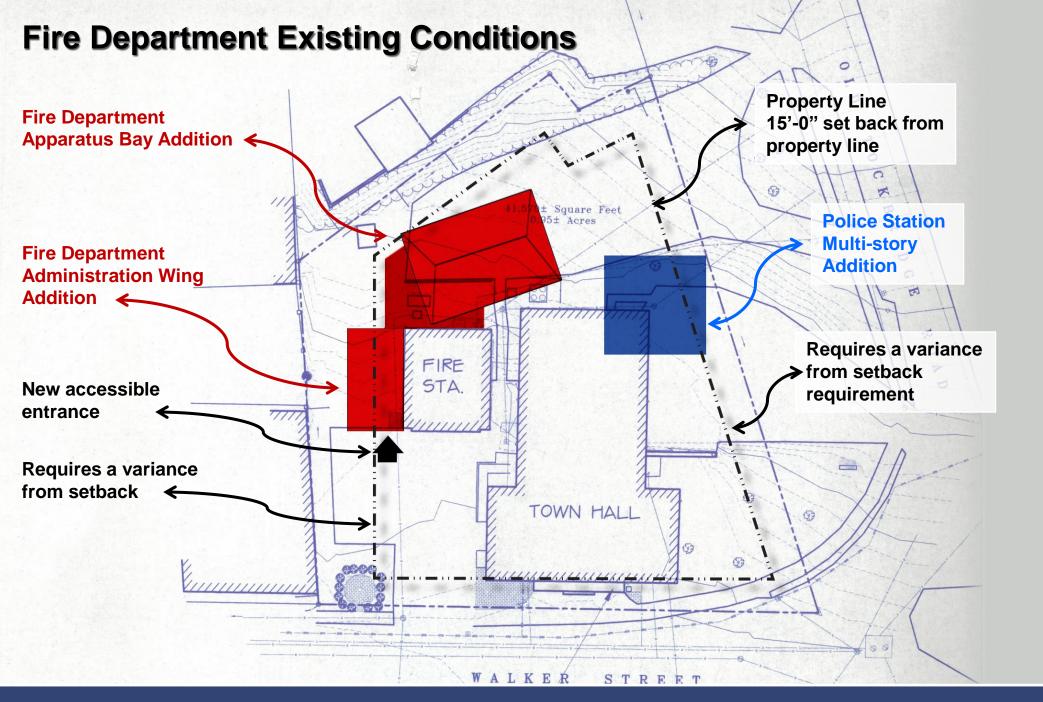
Program Upgrades:

<u>Items</u>	<u>Solution</u>	<u>Priority</u>
Sallyport	Addition of 280 Sq. ft.	1
Garage / large evidence storage	Addition of 560 Sq. ft.	2
Admin spaces (Records & Sergeant)	Addition of 300 sg. ft.	2
Separate interview rooms (2)	Addition of 150 sq. ft.	1
Increase Evidence Storage	Addition of 150 sq. ft.	2
Traffic employee locker room	Addition of 500 sq. ft.	3
Provide separate Lab & kitchen	Addition of 200 sq. ft.	1
Briefing Room	Addition of 200 sq. ft.	3
Accessible & Secure Locker Rooms	Addition of 800 sq. ft.	2
IT/Radio/Communication – Secure	Addition of 100 sq. ft.	2
Holding cells (DPH approved & accessible)	Addition of 160 sq. ft	1
* Additional sq. ft. areas do not include a circulation factor		
Priority 1 = Mandatory, 2 = Recommended, 3 = Discretionary		













Building Program - Police Department

SUMMARY:

Existing Police St. Program = 2,981 Sq. Ft.

New Police Station Program = 6,908 sq. Ft.



Staff & Space Summary	Town Of Lenox
	Police Department

August 21, 2019

	Ourrent	Future						igust 21, 2015
Program Space	Staffing		Space Type	Occupancy	Floor		Existing sq. ft.	Proposed sq. ft.
100 - Administration 101 - Office of the Police Chief								
Office - Chief	1	1	Office	1	First		171	150
Office - Secretary	1	1	Office/Public Counter		First		114	150
Record	0	0	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	1			80	125
	0	0	Records storage		First			
Toilet Rooms	0	1	Public Accessible	2	First		50 0	300
Sargent Office	U	1	Office	1	First		U	150
200 - Operations 201- Detective, Patrol & Support								
Lab	1	1	Crime Lab	1	First		98	150
Evidence	1	1	Evidence Storage	i			81	200
Armory	Ō	0	Firearms Storage	-	First		49	125
	0	0						
Interview 1			Interview soft	3	First	F. 0 Table	125	150
Patrol/Reports	10	10	Report Writing	4	First	Full Time	220	200
Briefing	4	4	Conference	20	First	Reserve	0	500
300 - Booking & Detention 301 - Booking Area & Cells								
Cell #1	0	0	Cell	1	First		50	130
Cell #2	0	0	Cell	1	First		50	130
Booking	0	0	Booking Area	3	First		160	250
Control of the Contro	0	0				Chanad		
Interview 2/ Break Room	U	U	Interview/Interogation	3	First	Shared	164	150
400 - Common Areas								
401 - Shared Spaces Kitchen/Lab/Break			Recreation	5	First		278	300
KILCHEH/LAD/DIEAK			Recreation	5	FILSE		2/8	300
402 - Lockers, Toilets & Showers								
Lockers - Women	0	0	Female Locker Room.	3	First		145	500
Lockers - Men	0	0	Male Locker Room.	10	First		181	250
Toilet & Shower Women's	0	0	Restroom/Shower	-	First		95	200
Toilet & Shower Men's	8	0	Restroom/Shower	-	First		115	200
Traffic Locker & Toilet Room	8	8	Unisex	=	First		0	250
500 - Vehicles								
501 - Vehicles								
Sallyport	0	0	Garage	9 -)	First		0	280
Garage Bay 1	0	0	Garage	-	First		0	280
Garage Bay 2	0	0	Garage	-	First		0	280
Storage	0	0	Garage	4-	First		0	200
600 - Building Services								
601 - Service & Storage	57	10000						
Mechanical Room	0	0	Building Service	-	First		87	100
Electrical Room	0	0	Building Services	-	First		20	100
Custodian	0	0	Building Service	-	First		35	30
Storage	0	0	Storage	-	First		20	300
Communication/Data/IT	0	0	Building Service		First		0	100
700 - Circulation								
701 - Fixed Circulation			WV TO A TO					
Corridors	0	0	Circulation		First		593	750
Staff & Space Requirements								
Staff Totals		23	Existi	na Buildina	Actual S	quare Footage	2,981	
Staff incl. Vacancies		24				Factor (10%)		698
		95795				uare Footage		6,980
			.041		5 4	go		-,

Building Program - Fire Department

SUMMARY:

Existing Fire St. Program = 4,658 Sq. Ft.

New Fire Station Program = 8,075 sq. Ft.



Staff & Space Summary							Fire Dep	Of Lenox partment ust 21, 2019
+ Program Space	Current Staffing	Future Staffing	Space Type	Occupancy	Existing Floor		Existing sq. ft.	Proposed sq. ft.
100 - Administration 101 - Admin Offices								
Office - Fire Chief	1	1	Office	1	Second		386	125
Office - Fire Admin	1	1	Shared Office	1	Second		659	125
Office - EMT	1	1	Office	1	Lower		167	100
Plan Room	0	0	Office	2	First		shared admin	100
Conference Room	0	0	Admin confer	6	First		shared admin	100
Toilet Room	0	0	Accessible	1	First		50	75
200 - Operations 201 - Vehicles & Equipment								
	Constitution Co.	LOSS	a 17a 192a	0	1900	20000 D 100 VI 000		
Vehicle Bay	34	34	Apparatus Garage	0	Ground	Volunteer staff	1470	4,900
EMT Garage	0	0	Apparatus Garage	0	Lower		548	_
SCBA	Ö	ŏ	Bay equipment	0	Ground		in bays	100
Laundry	Ö	ő	Bay equipment	Ö	Ground		in bays	100
Hose/Storage	0	ő	Bay equipment	0	Ground		50	200
Medical Storage	Ö	ő	Bay storage	0	Ground		100	100
Decontamination	0	ő	Bay	0	Ground		in bays	200
EMT Mechanical	0	Ö	Town Hall	0	Ground		100	-
300 - Common Areas								
301 - Lockers, Toilets & Showers			La alcan Da ana		C		105	200
Male Locker Room	0	0	Locker Room	8			105	300
Female Locker Room	0	0	Locker Room	2		D 1: CC1 (C	31	200
Day Room	12	12	Rec	6		Relief Staff	100	150
Kitchen	0	0	Kitchen	2		0 0 %	0	100
Bunk rooms	5	5	Beds	4	First	Career Staff	0	500
400 - Building Services								
401 - Service & Storage Building Storage (bays)	0	0	Storage	^	Cround		27	100
	0	0		0	Ground			
Building Storage (office)	0 0	0	Storage	0	Second		54 64	100
EMT Storage		(- C	Storage	0	Lower		64	100
Basement Mechanical Rooms	0	0	Mechanical	0	Lower	Thurs Charins	366	-
Hose Tower	0 0	0	Canaral staras	0		Three Stories	171	400
Building storage - General	U	0	General storage	0			50	400
600 - Circulation 601 - Fixed Circulation								
Corridors	0	0	Circulation		Second		160	-
Staff & Space Requirements								
Staff Totals		54		Existing B	uilding Actual	Square Footage	4,658	
Staff incl. Vacancies		54		New Bui	lding Circulati	on Factor (10%)		808
				Total Nev	v Building S	quare Footage		8,075

Building Program - Shared Space

SUMMARY:

Proposed Shared Space Within a New Public Safety Complex = 2,425 Sq. Ft.

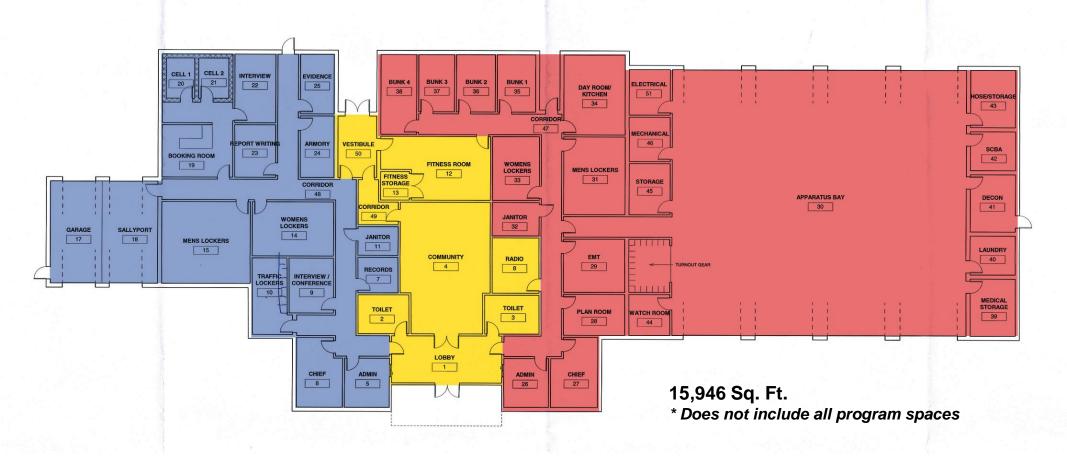
Staff & Space Summary							vn Of Lenox
						Shared Public S	
							August 21, 2019
+	Current	Future					
Program Space	Staffing	Staffing	Space Type	Occupancy	Existing Floor	Existing sq. ft	. Proposed sq. ft.
100 - Public 101 - Public							
Lobby	0	0	Circulation	6			200
Toilet Rooms	Ö	Ö	Accessible	2			150
200 - Community							
201 - Community Room							
Community Room	0	0	Assembly	25			800
300 - Shared Program Space							
301 - Shared							
Fitness Room	0	0	Fitness	10			600
400 - Emergency Operations 401 - EOC - Shared							
Equipment Room	0	0	Radio	2			100
Work Room Storage	0	0	Store	2			125
500 - Building Services 501 - Service & Mechanical							
Mechanical Room	0	0	Mech				150
Radio/Communications	0	0	Com				100
Electrical Room	0	0	Electrical				100
600 - Circulation 601 - Fixed Circulation							
Corridors			Circulation				100
-							
			N	ew Building	Circulation Fact	or (25%)	-
					ilding Square		2,425

Proposed Shared Space:

- * Lobby * Community Room / EOC * EOC Equipment/Storage * Fitness Room * Public Toilet Rooms
- * Radio/Communication * Mechanical Room * Electrical Room



Building Layout – Draft 1



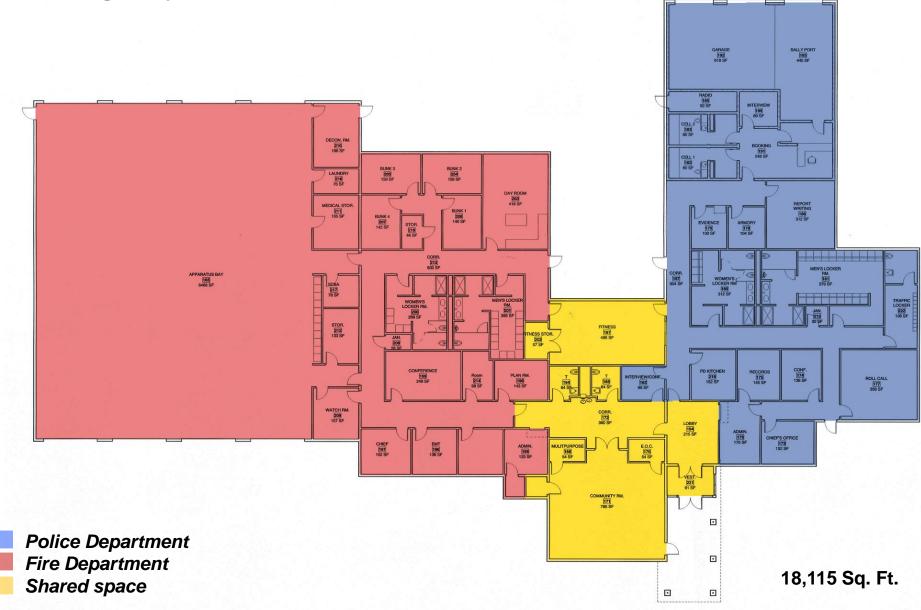


Shared space





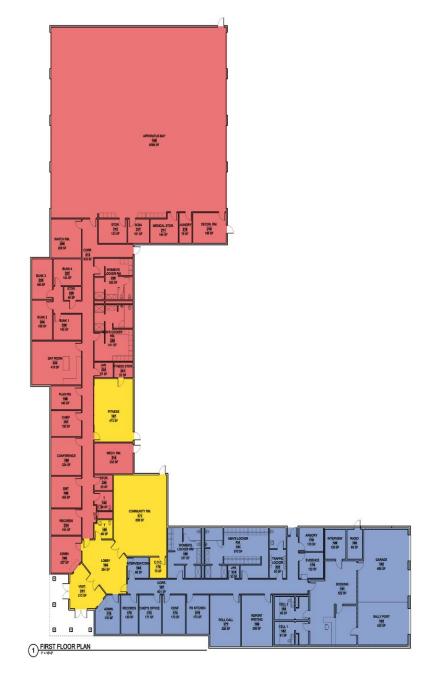
Building Layout – Draft 2





Building Layout – Draft 3

Police Department Fire Department Shared space



19,150 Sq. Ft.

Program Space Summary

Program Space vs. Draft Layouts

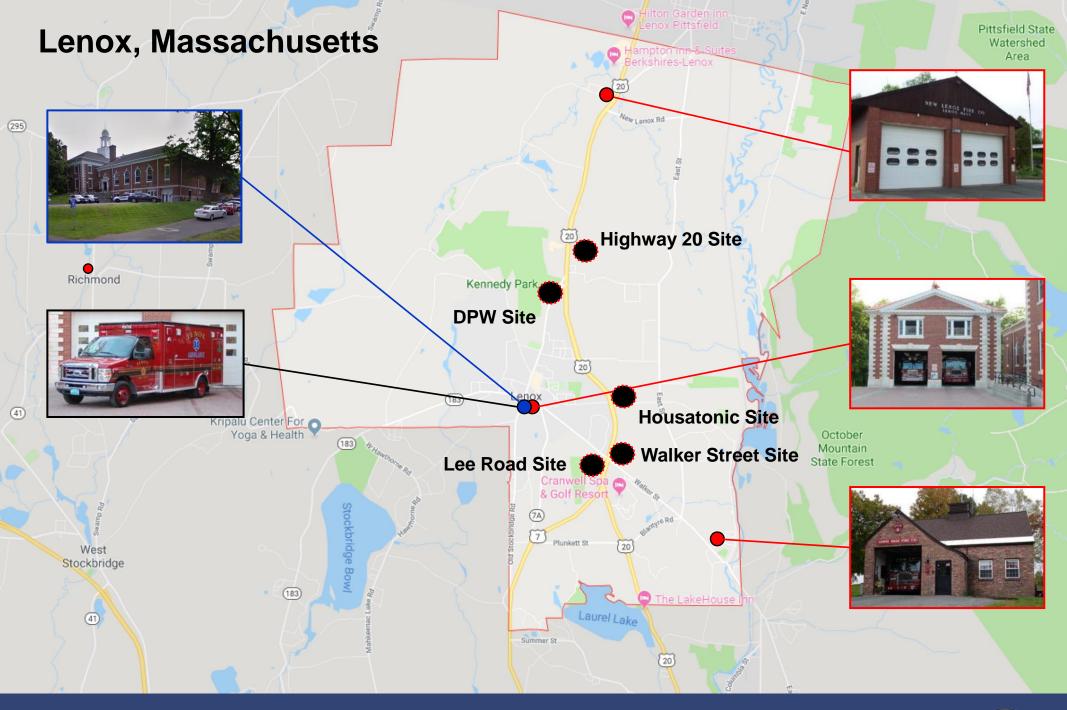
17,480 = Total Square Footage of Police & Fire Department Programs with Shared Space

15,946 = Total Square Footage of Draft 1 Plan

18,115 = Total Square Footage of Draft 2 Plan

19,150 = Total Square Footage of Draft 3 Plan





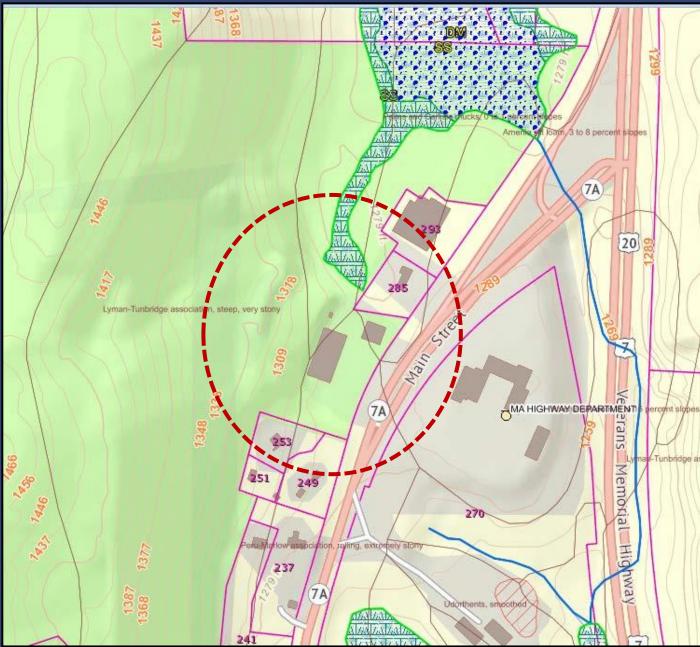




Site Analysis - DPW Site



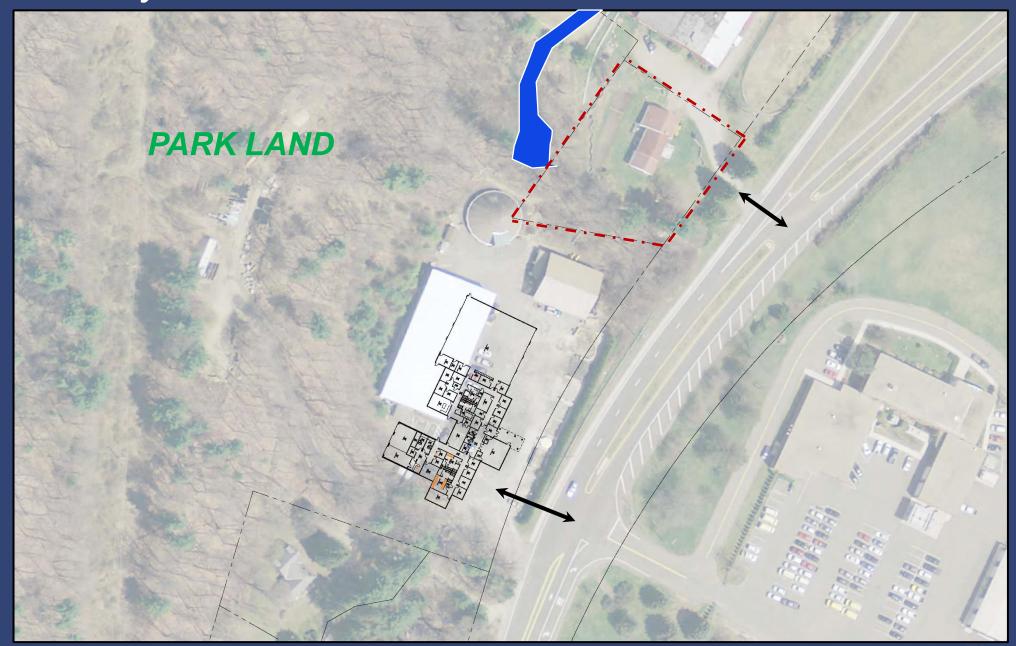








Site Analysis - DPW Site



Site Analysis - Highway 20 Site



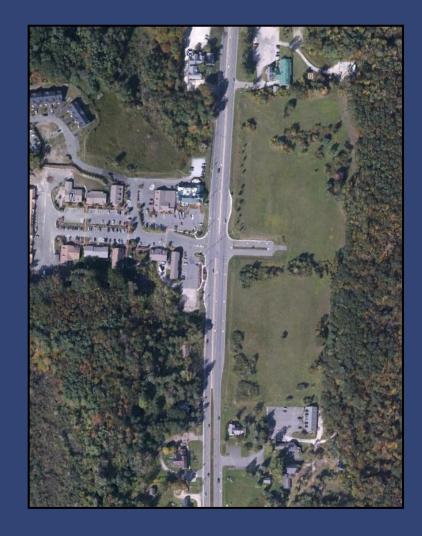


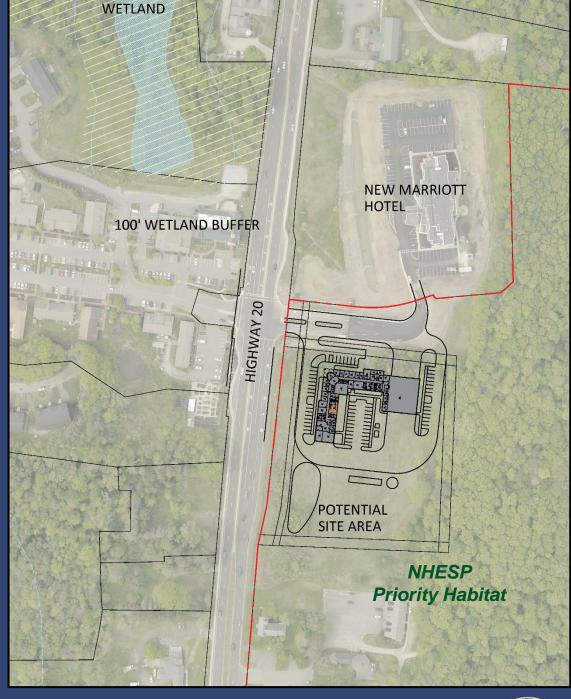






Site Analysis - Highway 20 Site



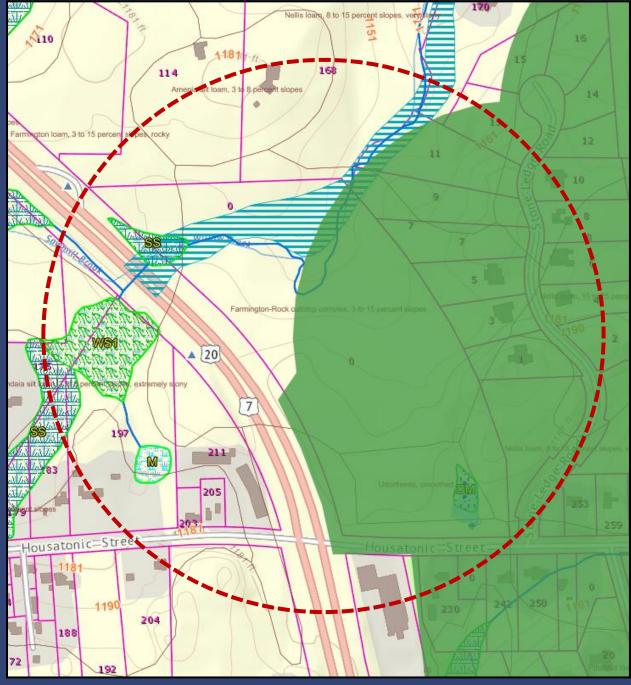




Site Analysis - Housatonic Road

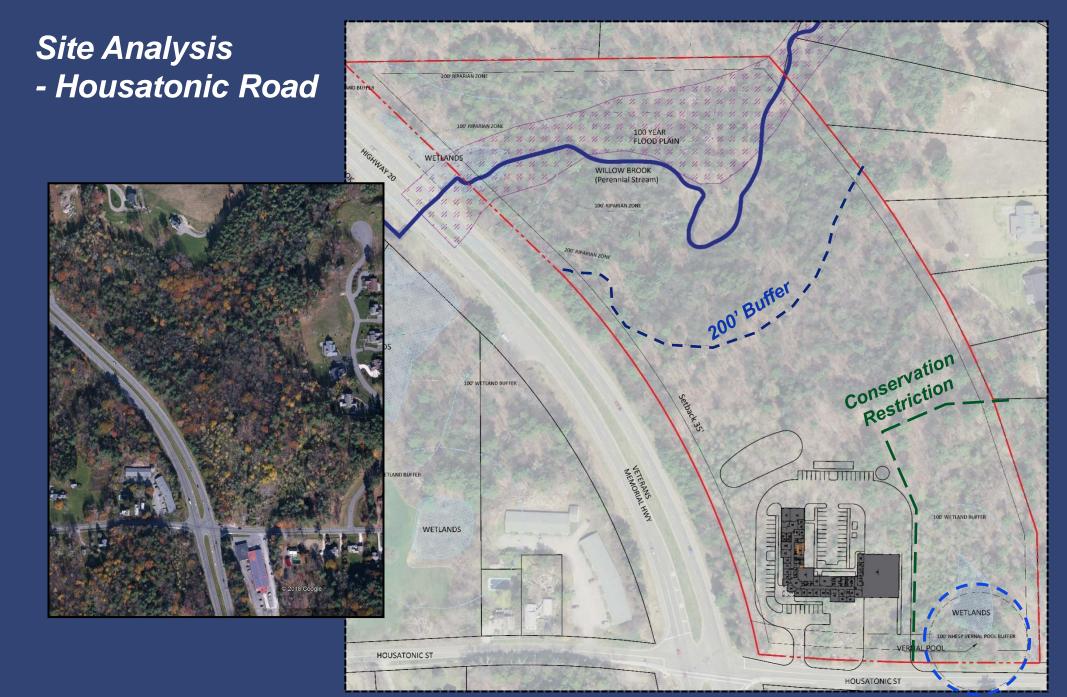












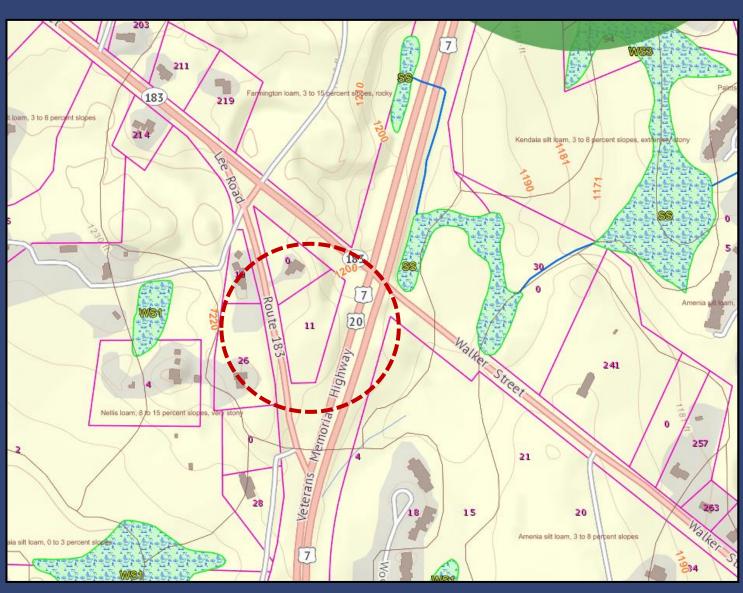




- Lee Road & Highway 20



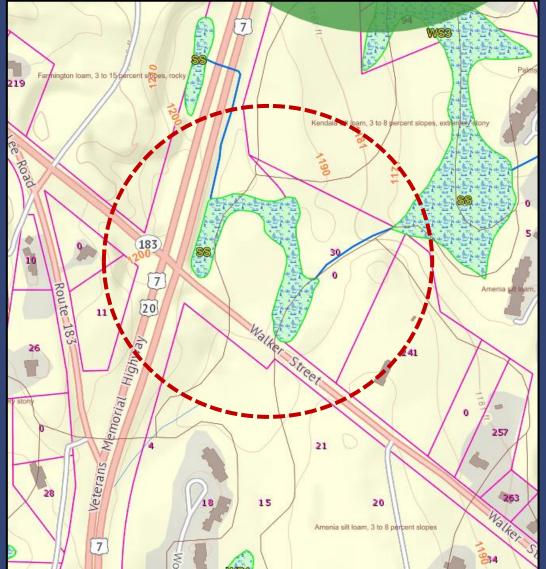








- Walker St and Highway 20

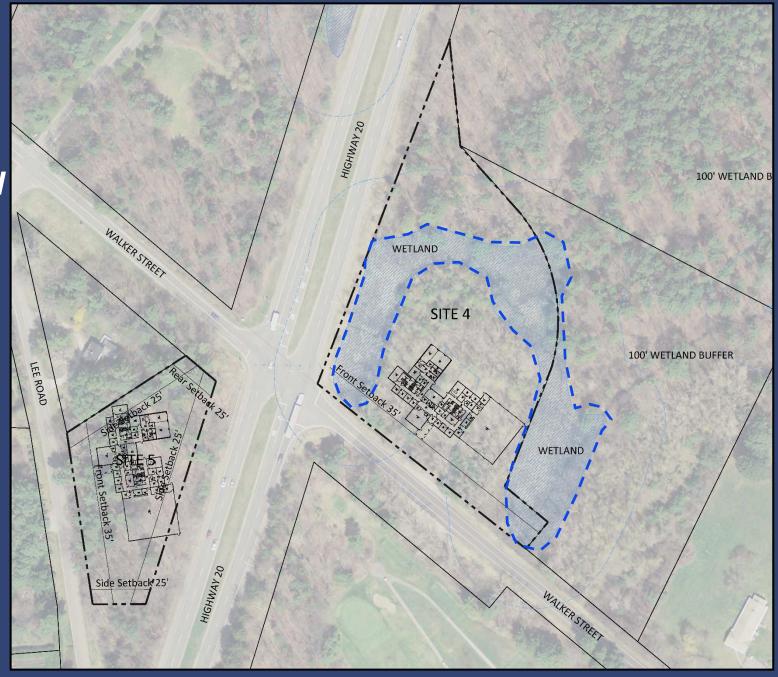








- Lee Road & Highway 20
- Walker St and Highway 20





Layout Options - Highway 20 Site





Layout Options - Highway 20 Site





Layout Options - Housatonic Site





Site Scoring	DPW Site	Highway 20	Housatonic	Lee Road	Walker Street	Existing Town Hall
Location in Town / Response Time	2	2	1	1	1	1
Town Owned Property	3	3	1	3	3	1
Existing Structures to Remove / Renovate / Temporary Facilities	3	1	1	3	1	3
Available Utilities	1	1	1	1	1	1
Topography	3	1	1	1	2	3
Wetlands / Perennial Stream	3	1	2	1	2	1
Buildable Area	3	1	2	3	2	3
Sight Lines / Access / Curb Cuts	2	1	2	3	2	2
Zone Restrictions-Historic, Protected Habitat	3	2	2	1	2	3
Suitable Soils / Rock	2	1	3	2	2	1
Projected Overall Site Development Cost	2	1	2	3	2	3
Traffic Impact	1	2	2	3	2	3
Political Issues	1	1	1	1	1	1
Total	29	18	21	26	23	26

Key: 1= Preferred, 2= Acceptable, 3 = Problematic





Budget Projections

Building Cost - \$600 per sq. ft.	\$10,488,000.00
Land Cost - Purchase of Non Town owned land	\$???
Professional Fees - Legal - Arch/Engineering - Owners Project Manager	\$1,887,000.00
Furniture & Fixtures (FF&E) - New furniture & Equipment	\$420,000.00
Communication / Data - Tower, radio	\$250,000.00
Utility Fees - Electrical, Gas, Water, Telephone/Data	\$60,000.00
Construction Services - Testing, Geo Tech	\$40,000.00
Soft Costs - Moving, advertising, bidding	\$50,000.00
TOTAL BUDGET -DRAFT-	\$13,195,000.00





Next Steps:

- Building Committee's comments?
- Building Program adjustments per Building Committee's direction.
- Site analysis: Eliminate sites? Further review of preferred sites.
- Revise building conceptual design.
- Develop budget for building and Total Project Cost.
- Complete Study Report.
- Review schedule.

