TOWN OF HADDAM



FACILITY ASESSMENT REPORT Six Town Buildings Haddam, Connecticut

April 1, 2024









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8.1. Options and Recommendations

2.0 Use and Reliance Restrictions



2.1 Use and Reliance Restrictions

Six Town Buildings Facility Assessment

Antinozzi Associates, PC, Consulting Engineering Services (CES), and Michael Horton Associates, Inc., hereinafter referred to as the "Assessment Team", have produced the content of this document under agreements between Antinozzi Associates, PC and the Town of Haddam. All terms and conditions of that agreement are included within this document by reference. Other than to the Town of Haddam, the Assessment Team disclaims any obligations to any other person with respect to any material presented in this document, and no person may rely upon this document without advance and express written consent from Antinozzi Associates, PC and such person's written agreement is to be bound by the limitations, qualifications, terms, conditions, and indemnities to Antinozzi Associates PC set forth in that agreement.

The assessment Team specifically states that their review of the property in question is subject to monetary and time restraints, as well as scope limitations. Given those restraints and limitations, they have made what is in their opinion a reasonable investigation. The materials presented in this document shall be considered "to the best of the Assessment Team's collective professional knowledge". This phrase means materials presented reflect the Assessment Team's actual knowledge of the subject matter after such inquiry the Assessment Team considered reasonable given the constraints and limitations upon the contracted scope of work.

The extent of the physical observation for the production of this assessment has been limited to "walk-around" visual inspections of the buildings and properties. Assumptions regarding the overall condition of the property have been developed based upon observation of representative areas of the building. As such, the development of schematic methods and associated costs for the correction of identified deficiencies is based upon the overview observation and is also limited with respect to completeness.

3.0 Executive Summary

Six Town Buildings Facility Assessment

Introduction Antinozzi Associates was commissioned to conduct a Facility Assessment Study for six Town buildings in the Town of Haddam. This assessment is twofold: 1) to provide the Town of Haddam an overview of the conditions of the six buildings, and 2) to determine the space needs for the Town departments and developing a potential renovation plan for the buildings.

The buildings evaluated as part of the assessment are as follows:

- Haddam Town Office Building
- Haddam Old Town Hall
- Haddam Community Center
- Haddam Senior Center
- Haddam Municipal Annex
- Haddam Elementary School

Study Scope The assessment of the buildings included a field survey to investigate and evaluate the current conditions of the facility, as well as to identify and prioritize elements requiring repairs and restoration.

The survey included the following elements:

- Architectural Systems
- Structural Systems
- Plumbing Systems
- Mechanical/HVAC Systems
- Electrical Systems

The above noted procedure has limitations, as some elements of the facility are concealed from view and cannot be inspected without selective demolition. Our procedures did not include removal of the building fabric or destruction of finishes in order to view concealed items. Unless specifically noted within this report, no engineering calculations, disassembly of building components, or material testing was completed by the Study Team for this Facility Assessment, including a detailed review of the possible presence of any hazardous materials. This report describes the condition of the building and site components at the time of the observations in November of 2023. The report of an item functioning at the time of the observation should not be taken as a guarantee. This report provides no guarantee or warranty, either expressed or implied.

3.I Executive Summary

Six Town Buildings Facility Assessment

In the cost estimate component of the report, certain assumptions were made that must be considered when interpreting the cost figures associated with each line item. The cost listed is specific to the identified activity and does not include costs associated with disruption to operations, temporary accommodations for anyone affected by work in a certain area, moving expenses to accommodate construction, finance or bonding costs, permits, Furniture, Fixtures & Equipment (except where noted), "historic" renovation principles, A/E fees, and other soft costs. The costs listed do however include some "General Requirements" provisions. Examples include removal and restoration, testing and normal certifications, and temporary accommodations for construction (lifts, scaffolding, etc.).

Regular maintenance cost is not included in this line-item report. The report assumes the Town will allocate maintenance cost for each of the buildings, following the implementation of certain line-item scopes of work.

Study Team The list of firms and individuals below are collectively responsible for the work that resulted in the development of this facility assessment report.

Architecture & Interiors	Antinozzi Associates, P.C. 271 Fairfield Avenue Bridgeport, CT 06604 P: 203-377-1300 Paul Lisi, AIA – Principal
Mechanical, Electrical, & Plumbing	Consulting Engineering Services 811 Middle Street Middletown, CT 06457 P: 860-632-1682 Eric Gebrian – Associate
Structural	Michael Horton Associates, Inc. 780 E Main Street Branford, CT 06405 P: 203-481-8600 Al Lombardi – Principal

4.0 Existing Facility Survey



4.I Haddam Town Office Building

Architectural Conditions Analysis	4.1.1
Mechanical, Electrical, and Plumbing Conditions	
Structural Conditions Analysis	4.1.3

Existing Building The Haddam Town Office Building, located at 30 Field Park Drive, is a Colonial Revival style structure built in 1967 constructed to provide sufficient office space for the town. The two-story brick veneer building accommodates major Town Departments including the Board of Selectman, Building Department, and Planning and Zoning, among several others.



Exterior – East Elevation

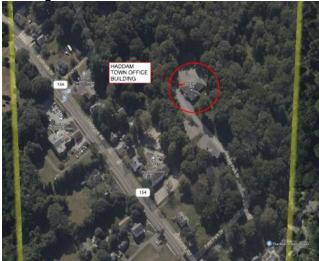


Exterior - South Elevation



Exterior – North Elevation

The Town Office Building shares its site with the Old Town Hall on a hill off Saybrook Road. Parking is provided at the front and rear of the building.



Aerial view



Site Plan

This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.1 Architectural Conditions Analysis

Building Profile	Haddam Town Office Building 30 Field Park Drive Haddam, CT 06438	
	Original Construction:	1967
	Lot Size:	1.66 acres
	Zoning:	R2A
	Number of Parking Spaces:	Upper Lot - 18 spaces, incl. two (2) ADA spaces
		Lower Lot – 7 spaces
	Building Façade:	Masonry
	Roof Construction:	Asphalt Shingles
	Occupancy Classification:	B, Business
	Construction Type:	Unknown
	Fire Protection System:	No
	Emergency Generator:	Yes
	Handicap Accessible:	Yes
	Number of Floors:	Two Floors
	Existing Total Floor Area:	5,690 SF (gross area)

Building Site

Site Conditions

The Town Office Building, situated on approximately 1.66 acres, sits on atop a hill shared with the Old Town Hall. Signage indicating the Town Offices and Old Town Hall is clear from Saybrook Road.



View looking south

View looking north

There are two parking lots for the Town Office Building; a lower lot at the main building entrance, and an upper lot, to the south of the building. The lower parking lot provides 7 spaces. The upper parking lot provides 18 spaces, of which, two are ADA accessible. Spaces are clearly indicated with signage and striping, however there is no indication that ADA access is provided at the upper lot.



Entrance to lower parking lot





Parking lot

ADA accessible parking

Landscaping at the Town Office Building consists mostly of several shrubs, flowers and a moderate sized conifer along the east elevation of the building. Stone retaining walls at the south and north side of the structure hold back the sloping grade. Walls and plantings appear to be in good condition, however there were some areas of missing mortar at the stone walls, as well as some staining. This missing mortar can become a hazard with water infiltration and should be repaired.



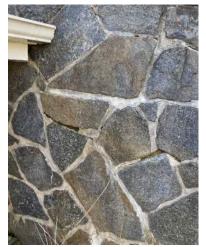
Shrubs at East Elevation



Retaining wall at South Elevation



Retaining wall at North Elevation



Missing mortar

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.1 Architectural Conditions Analysis

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Town Office Building are brick masonry and appear to be in good condition. Although there was no major cracking, spalling, or issues with mortar joints, there were several areas where some minor cracking is occurring in the masonry. This is typically near downspout locations.



East Elevation



North Elevation



West Elevation



South Elevation

Staining was observed at retaining wall near the north entrance.



Cracking at masonry near down spout



Staining on masonry

Gabled ends over the primary entrances are vinyl clad appear to be in good condition, however, require cleaning.



Vinyl sided gabled ends

Building Envelope – Roofs, Gutters, & Chimneys

The Town Office Building roof is a low hipped structure with asphalt shingles. The shingles appear to be in good condition, however there are areas on the north west roof that have organic growth, indicating signs of excess moisture. The age of the shingles could not be concluded, however if the installation was 20 or more years ago, replacement should be considered. A copper roofed cupola tops the building and appears to be in good condition, with no apparent damage or fading.



Aerial view of roof





Moss on roof

K-style gutters wrap the perimeter of the hipped roof, with downspouts at each of the Town Office Building corners. Downspouts typically discharge to daylight, except at the accessible ramp on the south elevation. Leaders here run to underground piping.







View of roof eaves, gutters, and downspouts.

Building Envelope – Exterior Doors

There are two primary entrances to the Town Office Building, one off the east elevation, and the other, an accessible entrance off the south elevation. Three other exterior doors can be found on the west elevation.

The glass storefront double door entrance of the east elevation provides central access to the Town Office Building; however, it does not allow for ADA access. The entry opens directly to a split-level stair case leading to the lower basement floor and to the upper 1st Floor. The door and hardware appear to be in excellent condition, as do the glass sidelights and transom.

The glass storefront door on the south elevation allows for ADA access to the Town Offices. The single door provides entrance to the Ist Floor. The door, hardware, glass and sidelight are in excellent condition. A handicap push plate is provided both inside and out.



East Entry door, exterior



East Entry door, interior



South accessible entrance, exterior



4.1.1: Page 8 of 15

The north entrance to the lower level provides direct entry to the Building Department. It is necessary to navigate several steps from grade down to this entry point. Stair railings are lacking handrail extensions.

Two more sets of exterior doors can be found at the west elevation. The 3-panel, steel clad, double doors located off the main corridor provide a second form of egress from the Ist floor. And a single 6-panel door allows access to the Furnace Room. Both doors are in fair condition, however, neither is provided with ADA compliant hardware and both are in need of cleaning and painting.



North entrance to lower-level

West entrances to Ist Floor

Building Envelope – Windows

The windows at the Town Office Building are vinyl, double-hung, with insulated glass and simulated divided lites. The larger windows of the 1st Floor are typically 12 lites over 12, while the smaller lower level windows are 8 lites over 8. The age windows of the windows could not be determined, however, they appear to be in good condition with no obvious broken glass, cracks, or defects. Steel lintels above the windows are showing signs of rust and should be cleaned and re-painted.



Typical 12/12 double hung Window, exterior



Typical 8/8 double hung at basement level



Typical 12/12 double hung Ist Floor

Building Envelope – Porches, Steps, and Ramps

The four columned portico at the east entrance provides an area of shelter from the elements as you exit the Town Office Building. It appears to be in good condition. As noted earlier, steps lead to the north entrance to the Building Department. The steps are in fine condition; however, the handrails do not meet today's codes, lacking handrail extensions.

An ADA accessible ramp provides access to the south elevation entrance to the I^{st} Floor. Handrails and ramp slope meet current codes.







Front entry porch

n Steps at north lower level entry

ADA accessible ramp

Building Interior Building Interior – Basement Offices

The basement of the Town Office Building houses the Building Department, conference rooms, storage and mechanical space. The spaces appear to be in good condition with no significant areas of concern, other than items that are covered in this report.



Basement conference room



Typical office



Building department









Basement HVAC

Building Interior – 1st Floor

The 1st Floor of the Town Office Building is occupied by the Town Assessor, Clerk, and Selectmen, among other Town Departments. The office spaces all appear to be in good condition and are comfortable, however, work space is limited and there is little room for any expansion.





Ist Floor office

Building Interior – Flooring

1st Floor Conference Room

The flooring for the Town Office Building varies throughout. Floors in the basement storage/mechanical spaces are bare concrete. Office spaces are typically carpeted on the 1st Floor. LVT hardwood flooring is installed in the Lower Basement Building Department. Corridors are VCT. Most flooring appears to be in good condition.



Typical VCT in corridors



LVT in basement offices



Carpet in 1st Floor offices

4.1.1: Page 11 of 15





Typical 1st Floor carpet

Typical 2nd floor carpet

Building Interior – Walls

The interior walls of the Town Office Building are a typically painted gypsum board and are good condition. Walls appear freshly painted and clean, and no visible signs of cracking.



Typical basement corridor walls

Typical office walls

<u>Building Interior – Ceiling</u> The ceilings throughout are gypsum board and are overall in good condition, however there are several areas on the lower floor that show signs of water damage and cracking.



Basement corridor ceiling with water stains



Cracking corridor ceiling







Building Interior – Doors and Hardware

The typical doors throughout the Town Office Building are flush panel doors and appear to be in good condition. Door handles are generally door knobs and are not ADA compliant. Several specialty doors can be found including Dutch doors for Clerk's offices and louvered doors for spaces that house mechanical equipment.





Typical door

Toilet room door





Clerk's office door Mechanical closet door

Building Interior – Stairs and Lifts

The primary stair in the Town Office Building can be found at the main entrance providing access to the lower basement level and the upper I^{st} Floor. Treads, risers, and railings are in good condition. The risers are 7 I/2", per current Building Code, they should be 7". Wood treads should be provided with non-slip tread surface.



Stairs to Ist Floor

A lift is provided to allow for ADA access from the lower basement level to the 1st Floor.



Basement lift door

Lift at Ist Floor

Building Interior – Kitchenettes

Cabinets, countertops, and fixtures all appear to be in good condition, however they are not ADA compliant. Cabinets are not the proper height, nor do they provide knee space at the sink for wheelchair access.



Kitchenette



Kitchenette

Building Interior – Toilet Rooms

Toilet Rooms are provided for on the 1st Floors. Fixtures and finishes are in good condition.



Typical toilet room



Typical toilet room

4.1.1: Page 14 of 15

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Town Office Building is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities:

Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Site</u>
 - a. Clean & repoint stone retaining wall
 - b. Provide signage indicating upper lot allows for ADA access
- 2. <u>Exterior</u>
 - a. Clean vinyl clapboard siding in gable ends
 - b. Repair, re-point, replace damaged masonry
 - c. Clean and re-seal brick veneer
 - d. New 30-year architectural asphalt shingles
- 3. <u>Doors</u>
 - a. Update door hardware to ADA standards at all doors, interior and exterior
- 4. <u>Windows</u>
 - a. Clean lintels of all rust. Paint.
- 5. <u>Ceilings</u>
 - a. Verify areas of possible water leaks for pipe damage. Repair any damaged plumbing and repair damaged sheetrock ceiling.
- 6. <u>Kitchen</u>
 - a. Provide kitchen cabinets, fixtures, and appliances that are ADA compliant

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Plumbing

Domestic Water

The buildings domestic water is supplied from an on-site well water system. There is a 40-gallon well storage tank located inside the building mechanical room. Domestic cold water piping is mostly copper with soldered fittings. Piping is currently un-insulated. Recommend installing low flow plumbing fixtures to reduce water consumption.



Mechanical Room

Well Storage Tank

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis Domestic Hot Water Plant

The buildings domestic hot water is generated by a 19-gallon electric storage tank water heater. Domestic hot water piping is copper with soldered fittings. Piping is currently un-insulated. Inlet/outlet piping connections to the water heater are corroding. Recommend replacing the existing water heater. Recommend insulating all domestic hot and cold water to reduce heat loss and energy loss.



Water Heater

Water Heater Outlet Connection

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Mechanical Heating and Cooling

The building is heated and cooled with multiple Air Handling Units (AHU). AHU's provide heating via hot water heating coils and cooling via DX cooling coils. There is no mechanical ventilation/outdoor air to the AHU's. There are (2) two AHU's that serve the lower level. The upper level is served by (5) five AHU's located in the attic. There are a total of five units located in the attic. (7) seven air cooled condensing units located on grade. Condensing unit ages vary but most are in good condition. Hot water is provided via an oil fired boiler. The boiler distributes hot water to the AHU's with (7) seven zone pumps. The boiler appears to be in fair condition. The pumps are in good condition. In general there is limited insulation at the hot water piping throughout the building. There appears to be minimal mechanical ventilation air in the building. In most cases the operable windows are used to satisfy ventilation requirements.

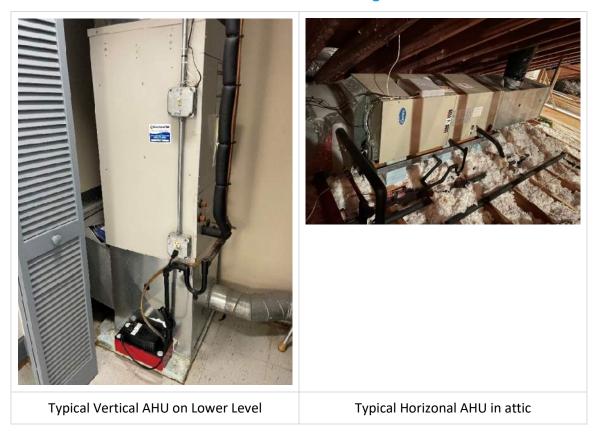
The building does not have a central Building Management System (BMS), all AHU's are controlled via programmable stand alone local thermostats.

Recommendations:

Ensure programmable thermostats are set for night set back and set back for unoccupied hours. For enhanced indoor air quality an Energy Recovery Unit can be added to the attic and paired with the AHU's located in the attic. Provide insulation at all heating hot water piping.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis



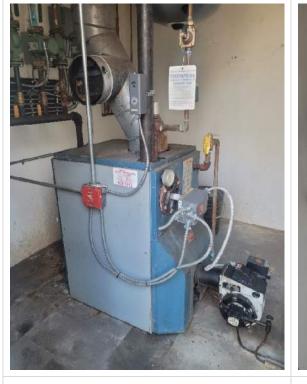
4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis



(5) Condensing unit located on Grade at back of building

Condensing unit located on grade



Oil Fired Boiler



Heating Hot Water Zone Pumps

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment

HADDAM TOWN OFFICE BUILDING

4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Electrical Electrical Service and Distribution

The building is fed by a 400Amp, 208/120V, 3-phase, 4-wire service via overhead lines from a utility pole mounted transformer.

The main electrical room contains the main service disconnect and distribution panelboards feeding the building's various mechanical, lighting, and receptacle loads. The electrical service is fed via an optional standby Automatic Transfer Switch (ATS) rated at 400Amp, 208/120V, 3-phase, 4-wire, which provides full building backup. The ATS is connected to a 100kW pad mounted diesel generator located on the exterior of the building.

The room housing the main electrical distribution equipment is currently being used as storage. Boxes were observed partially blocking equipment and working clearances.

Lighting

Lighting in the building consists of surface round, linear, or square fixtures. The kitchen area contains pendant and wall mounted fixtures. The lamp type or style of fixtures vary by location (CFL or LED retrofit). Controls consist primarily of single pole toggle switches. Wall switches with integral occupancy sensors were observed in a couple of locations. Exterior building mounted lighting is controlled via timeclock and photocell.

Emergency lighting consists of combination exit sign or stand-alone selfcontained battery units. Code compliant coverage was observed in the corridors. Emergency lighting in the public bathrooms consists of units plugged into a power receptacle. This method of coverage is not recommended.

Fire Alarm

The building contains an addressable horn-strobe fire alarm system by Fire Lite. The fire alarm control panel is located in the main electrical room, connected to a cellular wireless communicator by Starlink. The building is protected by smoke detectors and manual pull stations at the points of egress. Visual and/or sound notification appliances were observed at required locations.

Telecommunications & Security

The building is served by telecommunication equipment located in the main electrical room. A small wall-attached rack holds fiber demarcation equipment, switches, and patch panels. A wall section contains punch down blocks for cooper, and security cabinets for intrusion detection and access control.

Security consists of video Surveillance cameras around the building perimeter, the main entrance lobby, and the records storage room. Intrusion detection consists of door and motion sensors, and security keypads.

4.0 Existing Facility Survey

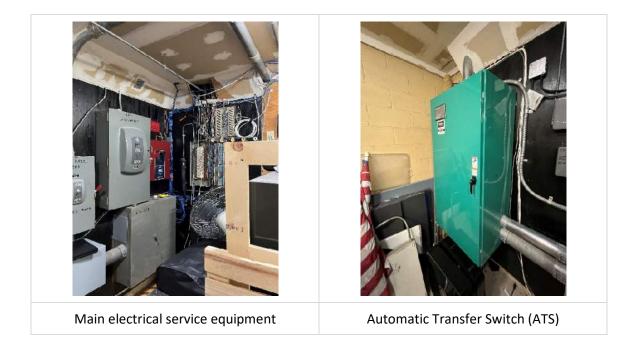
Six Town Buildings Facility Assessment

HADDAM TOWN OFFICE BUILDING

4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis

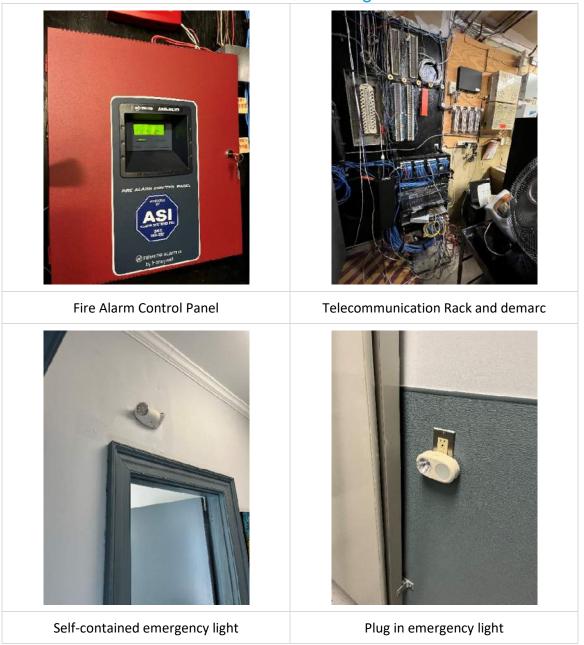
Recommendations:

- 1. Retrofitting existing lamps to LED and installation of localized standalone vacancy/occupancy sensors is recommended for additional energy savings in areas lacking these devices.
- 2. Replacing the plug-in emergency light device in one of the bathrooms is recommended.
- 3. Removing the items located in front of electrical equipment in the main utility closet is recommended. Its current condition represents a code violation.



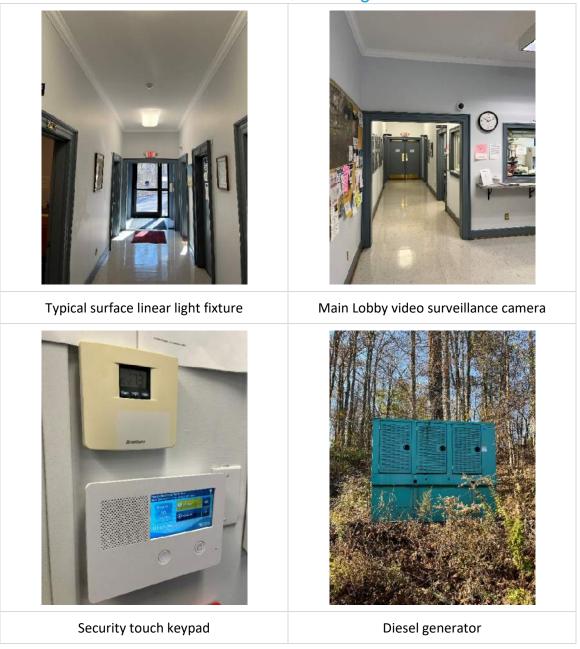
4.0 Existing Facility Survey Six Town Buildings Facility Assessment

4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey

Six Town Buildings Facility Assessment

HADDAM TOWN OFFICE BUILDING

4.1.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations

Summary

- 1. Replace plumbing fixtures (i.e. faucets, toilets) with low-flow water saving plumbing fixtures.
- 2. Insulate all domestic cold and domestic hot water piping.
- 3. Replace existing domestic water heater.
- 4. Ensure programmable thermostats are set for night set back and set back for unoccupied hours.
- 5. Provide insulation at existing heating hot water piping throughout the building.
- 6. For enhanced indoor air quality an Energy Recovery Unit can be added to the attic and paired with the AHU's located in the attic.
- 7. Retrofitting existing lamps to LED.
- 8. Install localized standalone vacancy/occupancy sensors for additional energy savings in areas lacking these devices.
- 9. Replacing the plug-in emergency light device in one of the bathrooms.
- 10. Removing the items located in front of electrical equipment in the main utility closet is recommended. Its current condition represents a code violation.

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM TOWN OFFICE BUILDING 4.1.3 Structural Conditions Analysis

Structure Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a cursory structural conditions analysis of the existing facility. MHAI's observations were limited due to in place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the supported floor levels at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This two-story, wood framed structure, constructed in 1967, is supported on a cast-in-place concrete foundation. The exterior walls located above grade consist of a brick veneer with wood stud backup. Cracking in the veneer was observed and repairs are required. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these areas should be repaired. The cracks should be monitored for future movement. Should additional movement occur, further investigation will be required. A steel lintel is present over the personnel door in the exterior wall which exhibited surface corrosion. The steel lintels should be cleaned to bare metal and coated with an appropriate product to prevent further deterioration and loss of section. Failure to do so could result in future replacement of the lintel being required. The interior face of the exterior walls was concealed by in place finishes. Cracking was also observed in the finishes of the interior walls; however, the cracks appear to be minor in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibits #1 and #2.

The interior walls at the lower level consist of concrete masonry units (CMU). Some portions of the CMU walls are exposed, while other areas are concealed by in place finishes. Cracking of the exposed masonry was observed in some locations as well as in the finishes of the finished partitions. The cracks appear to be minor in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibits #3 and #4.

The wood framing of the supported floors is concealed by in place finishes and could not be observed. Some cracking of the finishes was observed, however, the cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibit #5,6. Some water staining was observed in the ceilings. The source of the water staining could not be determined. It also could

not be determined if the leaks were active. Further investigation should be carried out to determine both of the above.

The roof framing was visible from within the attic space. The roof structure is a conventional wood framed system. Areas of previous repair work were observed and appeared to be weather tight at the time of the site visit. Please refer to Photograph Exhibits #7 and #8.

A stone site retaining wall, located on the north side of the building is in need of remedial work. The mortar joints between the stones are failing and require repointing. The bluestone caps are also in need of repointing. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen and therefore should be repaired before more significant repairs or replacement is required. Please refer to Photograph Exhibits #9 and #10.

The bluestone topping of the main entrance is delaminating and requires replacement. The delamination of the stones has created a potential trip hazard, which presents a safety concern. Water infiltration, freeze/thaw cycles and the application of deicers will cause these deficiencies to worsen, and these areas should be repaired/replaced. Please refer to Photograph Exhibit #11.

This concludes our structural conditions analysis of this facility.



Exhibit 1



Exhibit 2



Exhibit 3





Exhibit 5



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

HADDAM TOWN OFFICE BUILDING 4.1.3 Structural Conditions Analysis

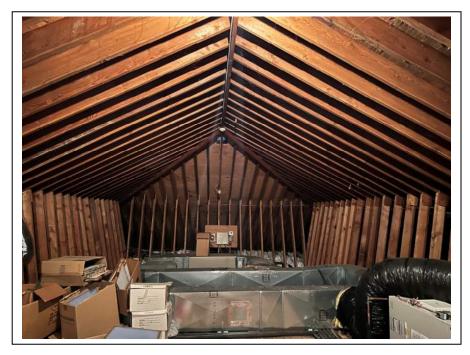


Exhibit 7





Exhibit 9





4.2 Haddam Old Town Hall

Architectural Conditions Analysis	4.2.1
Mechanical, Electrical, and Plumbing Conditions	
Structural Conditions Analysis	4.2.3

Existing Building The Haddam Old Town Hall, located at 31 Field Park Drive, is a Federal / Greek Revival style structure built in 1900. The two-story stone structure was original used as the Town Hall for Haddam until a new Town Office Building was built next door in 1967. Currently, the Town utilizes the 1st Floor of the building for larger meetings conducted in the Main Hall.



Exterior – West elevation

The 2nd floor of the Old Town Hall is occupied by the Masonic Lodge and was not reviewed for the purposes of this report.



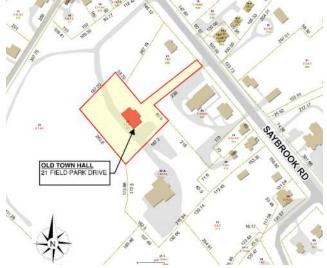
Exterior – East elevation

The Old Town Hall shares its site with the Town Office Building atop a hill off Saybrook Road. Parking is provided to the south of the structure.



View looking south

View looking north



Site Plan

This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL 4.2.1 Architectural Conditions Analysis

Building Profile	Old Town Hall 21 Field Park Drive Haddam, CT 06438	
	Original Construction:	c. 1900
	Lot Size:	I.I acres
	Zoning:	R-2A
	Number of Parking Spaces:	II spaces, incl. two (2) ADA
	Building Façade:	Stone/Masonry
	Roof Construction:	Asphalt Shingles
	Occupancy Classification:	B, Business
	Construction Type:	VB – Unprotected-Combustible
	Fire Protection System:	No
	Emergency Generator:	Yes
	Handicap Accessible:	Yes
	Number of Floors:	Two Floors and basement
	Existing Total Floor Area:	5,016 SF (gross area)

Building Site

Site Conditions

The Old Town Hall, situated on approximately 1.1. acres, sits on atop a hill shared with the Town Office Building. Signage indicating the Town Offices and Old Town Hall is clear from Saybrook Road.



View looking north down the entry driveway

The parking lot provides 11 spaces, of which, two are ADA accessible. Handicapped spaces are clearly indicated with signage and striping next to the structure.





ADA parking

Primary parking lot

Landscaping at the Old Town Hall is minimal, with several small shrubs at the north and west side of the building. An emergency generator is located on the north elevations with enough clearance around it for maintenance purposes.



Shrubs at North Elevation

Emergency generator

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Old Town Hall are stone and overall appear to be in good condition. Mortar joints appear solid, with minimal loose material noted on the walls, however several locations were noted requiring repointing. Although it could not be confirmed, insulation at the exterior walls is likely minimal.



West Elevation



North Elevation



East Elevation



South Elevation

The exterior walls bear on stone and masonry walls, with a concrete slab. Although the masonry block walls appear to be in very good condition, there was some efflorescence noted throughout the basement.



Masonry foundation. Visible efflorescence



Stone foundation

Building Envelope – Roofs, Gutters, & Chimneys

The Old Town Hall roof is a gabled structure with asphalt shingles. The fish scale style roof shingles appear to be in good condition with no visible damage or fading, however, the age of the shingles could not be concluded, and if the installation was 20 or more years ago, replacement should be considered.



Aerial view of roof



Asphalt shingle roof

K-style gutters run either side of the gabled with downspouts at each of the Old Town Hall corners. Downspouts typically discharge to underground piping.



View of roof eave, panel railing, and downspouts.

Building Envelope – Exterior Doors

There are several entrances to the Old Town Hall, the primary located on the West Elevation. A side entrance is located on the North Elevation, the original main entry is found on the East Elevation, and an emergency exit for the 2nd floor is located on the South elevation. The heavy wood doors appear to be original to the structure and are in good condition, however hardware is older on most doors. The primary

entrance is provided with an ADA compliant hardware and a door opener. Exterior hardware at the other doors is not ADA compliant.









Entry door, exterior

Entry door, interior

Side entry, exterior Side entry. interior

<u>Building Envelope – Windows</u>

The windows at the Old Town Hall are typically double hung with a 12 over 12 lite pattern. Although they look to be in good condition, they appear to be original to the structure and are uninsulated and inefficient.



Typical double hung window, exterior



Typical double hung window, interior

Building Envelope – Porches, Steps, and Ramps

The East façade of the Old Town Hall is distinguished with a Greek Revival style porch. The stone steps are in moderate condition; however, mortar joints are loosening and organic matter is growing. This could be a tripping hazard. The colossal Tuscan columns appear to be in good condition; however, paint is fading and chipping.







Column base

The accessible ramp at the West entrance provides handicapped access to the building, however the handrail does not meet current standards lacking extensions at the bottom of the run. The fire escape for the 2nd floor on the South Elevations is in very good condition, although level grading should be provided at the base of the stairs.





Front entry ramp

Front porch

Fire escape

Building Interior <u>Building Interior – Basement / Mechanical</u>

The basement is used primarily for storage and mechanical space. The foundations walls appear to be in good condition structurally, however they are showing indications of moisture infiltration with efflorescence at much of the perimeter.



Basement ceiling structure

Mechanical equipment looks to be newer and in good condition.



Mechanical equipment in basement

Building Interior – Meeting Room

The 1st Floor Meeting Room of the Old Town Hall is used for larger meetings held by the Town. The space is generally in good conditions with only the typical wear and tear of a structure of this age.





Ist Floor Meeting Room

Ist Floor Meeting Room

Building Interior – Storage

Storage space on the 1st Floor is located off the main foyer and connects to the Meeting Room. There were no apparent issues.



Storage Room



Storage Room



Vault door

Building Interior – Flooring

The flooring varies from what appears to be guarry tile in the Kitchen, to carpeting in the corridors, and VCT in the Meeting Room. In all scenarios, flooring appears to be in good condition, however dated.



Typical Meeting Room VCT flooring



Kitchen tile

ViCT flooring in toilet room

Corridor carpet

Building Interior – Walls

The interior walls of the Old Town Hall are a variety of original plaster on lath, and more modern sheetrock on studs and are typically in very good condition.



Typical Meeting Room wall



Typical Corridor wall

Building Interior – Ceiling The ceilings on the 1st Floor vary from gypsum board in the corridors to ACT in the toilet room. All ceilings appear to be in good condition. Crown molding is used throughout the spaces and also looks to be good.

Due to the age of the structure, the adhered ceiling tile in the Meeting Room should be tested for hazardous materials in the tiles and/or adhesive.



Meeting Room ceiling





ACT ceiling in toilet room

Building Interior – Doors and Hardware

The typical doors on the 1st Floor of the Old Town Hall are 6 and 8 panel wood doors. The doors appear to be original to the building and are in good condition. Door handles are generally door knobs and are not ADA compliant.



8 Panel historic door and trim



6 Panel historic door



Corridor doors

Building Interior – Stairs

The main stair is located near the north entrance and provides access to the 2nd floor. The grand stair case is in good condition and although it no longer meets code with proper tread and riser dimensions, it is equipped with a chair lift to provide ADA access to the 2nd floor. The marble treads could be slipping hazards and should be provided with non-slip treads.

The narrow metal stairs to the basement do not meet current code with improper tread and riser dimensions.





Basement stair

Building Interior – Kitchen

Cabinets, countertops, and fixtures all appear to be in good condition, however they are not ADA compliant. Cabinets are not the proper height, nor do they provide knee space at the sink for wheelchair access. Upper cabinets are also out of the required 48" reach zone.



Ist Floor Kitchen



Kitchen cabinets



Kitchen cabinets

<u>Building Interior – Toilet Rooms</u>

The Toilet Room on the Ist Floor can be found near the North entry to the Old Town Hall. Fixtures and finishes are in good condition and are ADA accessible with proper clearances and grab bars provided.



Ist Floor toilet room

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Old Town Hall is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities:

Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Exterior</u>
 - a. Clean and re-seal exterior stone veneer
 - b. Repaint columns and trim
 - c. Repoint stone steps
 - d. New 30 year architectural asphalt shingles
- 2. <u>Doors</u>
 - a. Update door hardware to ADA standards
- 3. <u>Windows</u>
 - a. Update windows to energy efficient insulated double hung to match existing style
- 4. <u>Floors</u>
 - a. Provide new flooring throughout
- 5. <u>Ceilings</u>
 - a. Remove glues ceiling in Meeting Room and replace with new gypsum board ceiling
- 6. <u>Kitchen</u>
 - a. Provide kitchen cabinets, fixtures, and appliances that are ADA compliant
- 7. <u>Stairs</u>
 - a. Provide anti-slip nosing

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL

4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Plumbing

Domestic Water

The buildings domestic water is supplied from an on-site well water system. There is a well storage tank located inside the buildings basement mechanical room. Recommend installing low flow plumbing fixtures to reduce water consumption.



4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL 4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis Domestic Hot Water Plant

The buildings domestic hot water is generated by an electric storage tank water heater. Domestic hot water piping is a mix of copper with soldered fittings and PEX piping. Piping is currently un-insulated. The existing water heater is dated from 2008, recommend removing and replacing. Recommend insulating all domestic copper piping to reduce heat loss and energy loss.



Water Heater

Water Heater

Six Town Buildings Facility Assessment

HADDAM OLD TOWN HALL

4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Mechanical

Heating and Cooling

The building is heated with an oil fired boiler located in the basement. The boiler distributes hot water via three inline pumps to perimeter radiation. There is no insulation at hot water heating piping. There is no cooling or ventilation/fresh air provided at this building. The boiler and pumps are in good condition.

The building does not have a central Building Management System (BMS), heat is controlled by a stand alone thermostat.

Recommendations:

Provide split system heat pump units for cooling and back up heating. Add insulation to hot water heating piping.



Six Town Buildings Facility Assessment

HADDAM OLD TOWN HALL

4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Electrical

Electrical Service and Distribution

The building is fed by a 100Amp, 240/120V, 1-phase, 3-wire service via overhead lines from a utility pole mounted transformer.

The main electrical equipment is located in the basement, which also contains the electric meter, main service disconnect, and distribution panelboards feeding the building's various mechanical, lighting, and receptacle loads. The electrical service is fed via an optional standby Automatic Transfer Switch (ATS) rated at 100Amp, 208/120V, 3-phase, 4-wire, which provides full building backup. The ATS is connected to a 20kW pad mounted diesel generator located on the exterior of the building. Some of the interior exposed branch wiring was observed in poor condition.

Lighting

The lighting in the building consists of surface linear wraparound or wall mounted chandelier style fixtures. The lamp type or style of fixtures vary by location (primarily T8 fluorescent, incandescent in the basement). Controls consist primarily of single pole toggle switches. Exterior building mounted lighting is controlled via timeclock and photocell.

Emergency lighting consists of combination exit sign or stand-alone selfcontained battery units. Code compliant coverage was observed in the corridors.

Fire Alarm

The building contains an addressable horn-strobe fire alarm system by Fire Lite. The fire alarm control panel is located in next to the main entrance, connected to a cellular wireless communicator by Starlink. The building is protected by smoke detectors and manual pull stations at the points of egress. Visual and/or sound notification appliances were observed at required locations.

Telecommunications & Security

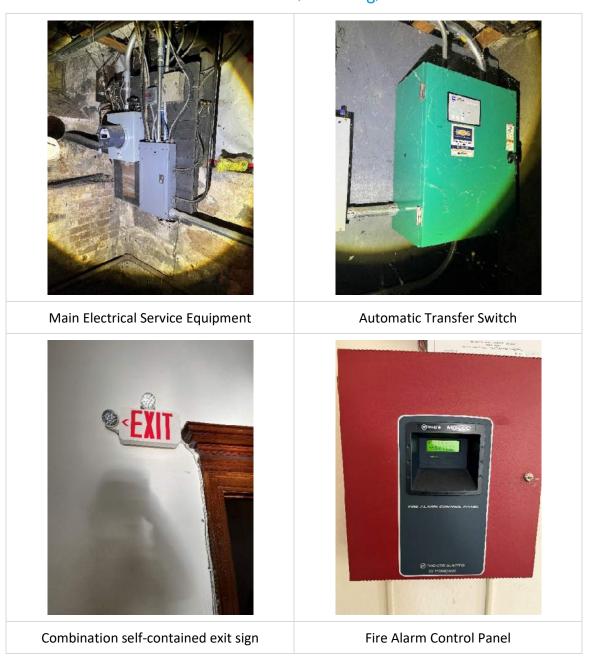
No active telecommunication or security video surveillance equipment was observed in the building. Intrusion detection consists of door and motion sensors, and security keypads.

Recommendations:

- 1. Retrofitting existing lamps to LED and installation of localized standalone vacancy/occupancy sensors is recommended for additional energy savings.
- 2. The building currently doesn't have an active internet connection. Providing a basic high-speed internet connection is recommended as it will promote a more desirable use of the space. It will also allow for the installation of a small-scale video surveillance system with remote monitoring.
- 3. Assess and replace exposed branch circuit wiring in poor condition. Its current condition represents a fire hazard.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

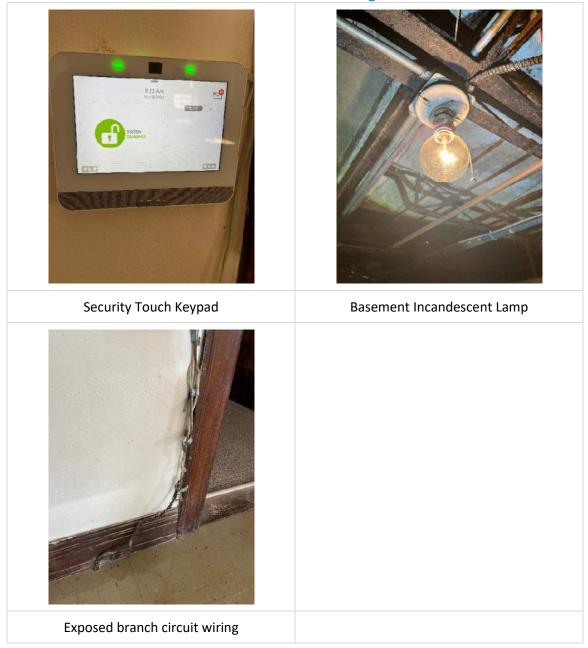
Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL 4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

HADDAM OLD TOWN HALL

4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Six Town Buildings Facility Assessment

HADDAM OLD TOWN HALL

4.2.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations

<u>Summary</u>

- 1. Replace plumbing fixtures (i.e. faucets, toilets) with low-flow water saving plumbing fixtures.
- 2. Insulate all domestic cold and domestic hot water piping.
- 3. Replace existing domestic water heater.
- 4. Insulate all heating hot water piping.
- 5. Provide split system heat pump units for cooling and back up heating.
- 6. Retrofit existing lamps to LED.
- 7. Install localized standalone vacancy/occupancy sensors for additional energy savings.
- 8. Provide a basic high-speed internet connection. This will promote a more desirable use of the space and allow for the installation of a small-scale video surveillance system with remote monitoring.
- 9. Assess and replace exposed branch circuit wiring in poor condition. Its current condition represents a fire hazard.

Structural Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a cursory structural evaluation of the existing facility. MHAI's observations were limited due to in place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the supported floor levels at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This two-story structure, constructed circa 1900, is supported on a rubble stone and brick foundation. Only minor cracking in the mortar joints was observed in the foundation walls and require repointing. The exterior walls above grade also consist of mortared in place stone. Cracking in the mortar joints was observed in the exterior walls and requires repointing. The stone chimney could only be observed from grade level, however, repointing is required. The loose stones of the chimney could potentially fail, presenting a safety issue and must be repaired. Water infiltration and freeze/thaw cycles will cause the deficiencies in the stone elements to worsen. These areas should be repaired to prevent further damage. Please refer to Photograph Exhibits #1 and # 2. Except for the minor cracking of the joints indicated, the building foundation was observed to be in sound condition.

The first-floor level construction consists of a concrete slab supported by wire mesh over steel joists and beams. Surface corrosion was present on the steel joists and beams throughout. The steel sections should be cleaned to bare metal and coated with an approved product to prevent loss of section. Dehumidification of the lower level must also be implemented to prevent future corrosion of the steel sections.

The structure of the supported floors and roof level are concealed by in place finishes and could not be observed. Cracking of the interior finishes was observed in various locations. The cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibits #3 and #4. Our staff was not allowed access to the second-floor tenant spaces during the site visit.

The ornate wood trim at the roof level could only be observed from grade level. Deterioration was observed and further inspection is required to determine the extent of the damage. Remedial work will be required. Please refer to Photograph Exhibit #5.

The exterior stone stairs, walkways and window well are all in need of repointing. Water infiltration, freeze/thaw cycles and the application of deicers will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #6 and #7.

The steel fire escape stairs appear to be in sound condition.

This concludes our evaluation of this facility.



Exhibit 1



Exhibit 2

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL 4.2.3 Structural Conditions Analysis



Exhibit 3



Exhibit 4

4.2.3: Page 4 of 6



Exhibit 5



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM OLD TOWN HALL 4.2.3 Structural Conditions Analysis



4.3 Haddam Community Center

Architectural Conditions Analysis	4.3.1
Mechanical, Electrical, and Plumbing Conditions	4.3.2
Structural Conditions Analysis	4.3.3

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.1 Architectural Conditions Analysis

Existing Building The Haddam Community Center, located at 7 Candlewood Hill Road, is a gabled structure built in 1965. The one-story brick building was originally the Town fire station and was eventually converted into the Community Center.



Exterior - North elevation



Exterior - West elevation

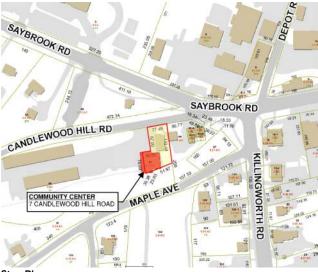


Exterior - View towards main entrance

The Community Center shares its site with the Haddam Veteran's Museum on grade that slopes upwards to the west. Parking is provided on the west side of the property, with access off of Candlewood Hill Road.



View looking south



Site Plan

This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.1 Architectural Conditions Analysis

Building Profile	Haddam Community Center 7 Candlewood Hill Road Haddam, CT 06438	
	Original Construction: Lot Size: Zoning: Number of Parking Spaces: Building Façade: Roof Construction: Occupancy Classification: Construction Type: Fire Protection System: Emergency Generator: Handicap Accessible: Number of Floors:	1965 .3 acres RI unknown, no marked spaces Masonry Asphalt Shingles A, Assembly VB – Unprotected-Combustible No No Yes One Floor
	Existing Total Floor Area:	3,784 SF (gross area)

Building Site

Site Conditions

The Haddam Community Center, situated on approximately .3 acres, sits on a site that slopes upward to the west and is shared with the Haddam Veteran's Museum. A large parking area is provided for the building, however there are no marked spaces, and the lot has many pot holes and bare unpaved patches. The entrance to the parking merges directly into the road, with little to distinguish between the two.



View looking east





Entrance to parking lot

View of parking lot from Candlewood Hill Road

Landscaping at the building is minimal, with several shrubs at the north side of the building and a low stone wall. A small brook runs along the rear of the building to the south.



Shrubs at North Elevation

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.1 Architectural Conditions Analysis

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Community Center are brick veneer with wood frame backup on a cast concrete foundation. Overall, the brick appears to be in good condition, are clean, and show minimal signs of efflorescence. The mortar joints look to be solid with no obvious loose material, however several locations were noted with cracking and/or damaged brick.



North Elevation



West Elevation



Cracking at concrete foundation joint near brick



South Elevation



Damaged brick at window sill



East Elevation



Staining on brick

The garage/storage portion of the structure is constructed of CMU block and while overall it appears good, several cracks were noted in the walls and at the pre-cast lintels.



East Elevation – mortar joint crack



Horizontal cracking at pre-cast lintel and along vertical mortar joints

Building Envelope – Roofs, Gutters, & Chimneys

The Community Center roof is a gabled structure with asphalt shingles on plywood sheathing, supported by wood framing. A square cupola tops the structure. The roof shingles appear to be in good condition; however, the age could not be determined and if the installation was 20 or more years ago, replacement should be considered. The cupola requires new painting,



Aerial view of roof

Interior view of roof structure

K-style gutters wrap the perimeter of the roof, with downspouts at each of the corners. Downspouts typically discharge to underground piping.







Discharge to underground piping

Typical downspout

Building Envelope – Exterior Doors

Typical gutter

The main entrance to the Community Center is located on the North elevation and is protected by an outdoor vestibule. The half glass wood door is in good condition; however, the door hardware is not ADA compliant.

A flush panel metal door is located on the South elevation providing necessary egress to the rear of the building. Door hardware is not always ADA compliant. Overhead garage doors and a single 6 panel metal door provide access to the garage.



Front Entry vestibule



Front Entry door

4.3.1: Page 7 of 14



Rear Entry door Side Entry door

Garage doors

Building Envelope – Windows

The windows at the Community Center are a vary from double hung with a 6/1 lite pattern at the Community Center portion of the structure, to awning windows at the garage/storage portion of the building. The age of the windows could not be determined, however, they appear to be vinyl and insulated and in good condition.





Picture window



Typical double hung window

Typical awning window

Building Interior Buildin

Building Interior – Meeting Room

The Meeting Room at the Community Center is the primary space of the building. The large space appears well maintained and in good condition. as does the central brick fireplace. Although the space is adequate for large groups of people, there is no separate space for quieter or smaller group activities. Also, the Community Center provides no space for any administrative or office needs.

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.1 Architectural Conditions Analysis



Meeting Room





Meeting Room

i lecting it

Building Interior – Garage

The Garage space has been converted to storage for Community Center activities and for the local youth sports leagues. A chain link fence provides a secure area for the equipment to be stored in. Stairs to a loft area provide "attic" space for additional storage.



Garage storage



Stairs to loft storage

Building Interior – Mechanical Room

The Mechanical Room, located off the garage, provides sufficient space for the mechanical equipment.



View of the cupola from the attic

Building Interior – Flooring

The hardwood flooring in the Meeting Room appears to be in very good condition



Meeting room hardwood flooring

VCT flooring in the corridor, kitchen, and toilet rooms is dirty, faded and dated. Multiple cracks, chips and divots were noted in the toilet room floors.



VCT in kitchen







Corridor carpet runners

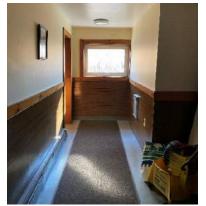
Building Interior – Walls

The interior walls of the Community Center are typically in good condition; however, the wood paneling is dated and the paint could use a fresh coat with newer colors.



Meeting Room

Meeting Room



Typical corridor walls



Typical corridor walls

Building Interior – Ceiling

The ACT ceiling in the Meeting Room is in moderate condition with several tiles that are sagging and water stained, and the ceiling grid is discolored.



Typical Acoustical Ceiling Tile ceiling

Gypsum wall board ceiling in the corridors, kitchen and toilet rooms appear to be in good condition.





Gypsum board kitchen ceiling

Typical gypsum ceiling at corridor

Building Interior – Doors and Hardware

The typical doors throughout the Community Center are 6 panel wood doors and appear to be in good condition. Door handles are generally door knobs and are not ADA compliant.



Kitchen interior door



Toilet room interior door

<u>Building Interior – Kitchen</u>

Kitchen cabinets, countertops, and fixtures all appear to be in good condition, however they are not ADA compliant and dated. Cabinets are not the proper height, nor do they provide knee space at the sink for wheelchair access. Upper cabinets are also out of the required 48" reach zone.

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.1 Architectural Conditions Analysis



Kicthen

Building Interior – Toilet Rooms

Single occupancy Men's and Women's Toilet Rooms are located to the rear of the building. Plumbing fixtures appear to be in good condition, however vanities are not. The Men's vanity appear to be nothing more than a wooden box supporting the sink. Neither toilet room is ADA compliant.



Women's toilet room



Men's toilet room

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Community Center is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities:

Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Site</u>
 - a. Re-pave parking lot and provide line striping and ADA signage
 - b. Provide signage indicating Community Center
- 2. <u>Exterior</u>
 - a. Clean and seal brick veneer
 - b. Repair, re-point, replace damaged masonry
 - c. New 30-year architectural asphalt shingles
 - d. Scrape, clean, and re-paint cupola
- 3. <u>Doors</u>
 - a. Update door hardware to ADA standards
- 4. Floors
 - a. Provide new flooring and wall base throughout
- 5. <u>Ceilings</u>
 - a. Provide new ACT ceiling in Meeting Room
- 6. <u>Walls</u>
 - a. Re-paint throughout
- 7. <u>Kitchen</u>
 - a. Complete renovation to kitchen. Provide kitchen cabinets, fixtures, and appliances that are ADA compliant
- 8. <u>Toilet Rooms</u>
 - a. Complete renovation to toilet rooms. Provide vanities and fixtures that are ADA compliant
- 9. <u>Programmatic Needs</u>
 - a. Office/administrative space
 - b. Smaller group spaces
 - c. Storage space is currently the garage space and is occupied by Town Rec sports equipment. Additional space for Community Center furniture and supplies is required.

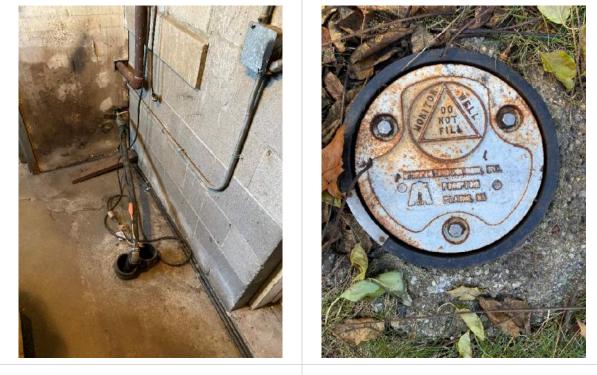
4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Plumbing

Domestic Water

The buildings domestic water is supplied from an on-site well water system. A well storage tank was not identified inside the building. Recommend installing low flow plumbing fixtures to reduce water consumption.



Water Service from Well

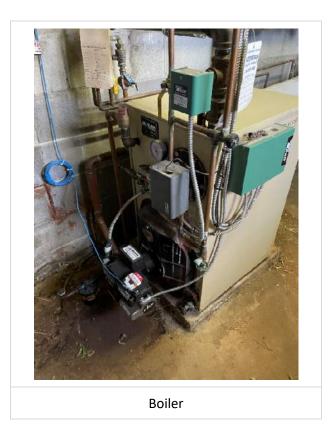
Water Well at Exterior

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Domestic Hot Water Plant

The buildings domestic hot water plant was not identified. It is believed that the hot water is generated from the buildings boiler and is piped to an indirect water heater located in a restricted access room. Recommend insulating all domestic hot and cold water piping to reduce heat loss and energy loss.

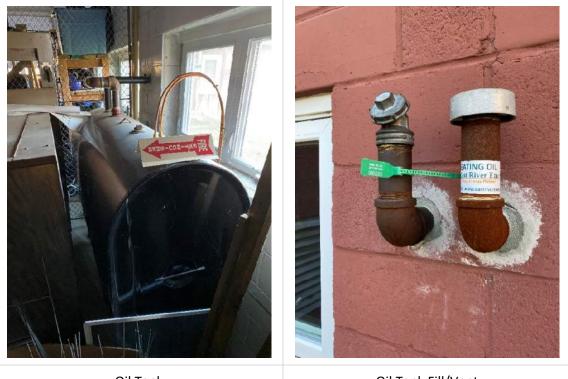


4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Oil Supply

The building is currently heated with heating oil. There is a large storage tank located inside the building that supplies the boiler.



Oil Tank

Oil Tank Fill/Vent

Mechanical

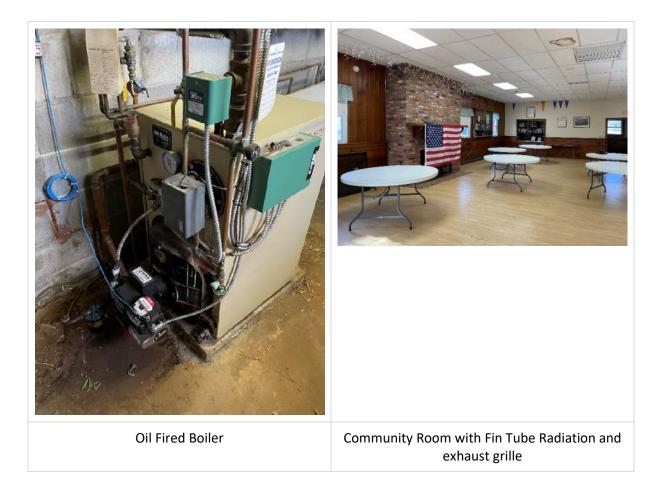
Heating and Cooling

The buildings heating is provided by an oil fired boiler. The boiler is manufactured by Weil McLain and in good condition. There are three hot water pumps that distribute hot water to fin tube radiation, wall heaters and unit heaters. There is no insulation on the hot water piping. The large community room has an exhaust grille connected to an exhaust fan. The garage storage area has two ceiling hung unit heaters. There is no mechanical cooling or ventilation at this building. Ventilation is via operable windows.

Recommendations:

Add insulation to the heating hot water piping. Ensure thermostats are programmed correctly with night set backs and heat is set back during unoccupied hours. Provide split system air conditioning units/heat pumps to provide cooling and back up heating. An Energy Recovery Unit could be added for enhanced indoor air quality.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

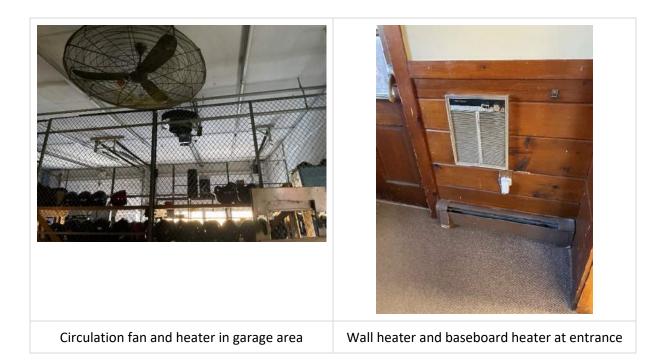


4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Boiler pumps

Typical stand alone thermostat



4.0 Existing Facility Survey

Six Town Buildings Facility Assessment

HADDAM COMMUNITY CENTER

4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Electrical Electrical Service and Distribution

The building is fed by a 200Amp, 240/120V, 1-phase, 3-wire service from overhead utility lines.

The main electrical panelboard is located in a cabinet within the kitchen. The main panelboard feeds the building's various mechanical, lighting, and receptacle loads. The building contains a diesel generator estimated at 15kW. The generator does not appear to be tied to the electrical distribution of this building.

Lighting

Lighting in the building consists primarily of surface linear or recessed 2x4 fixtures. The lamp type or style of fixtures vary by location (primarily T8 fluorescent). Controls consist primarily of single pole toggle switches. Exterior building mounted lighting is controlled via timeclock and photocell.

Emergency lighting consists of combination exit sign or stand-alone selfcontained battery units. Code compliant coverage was observed in the corridors.

Fire Alarm

The building does not currently have a fire alarm system and is only protected by battery operated smoke detectors.

Telecommunications & Security

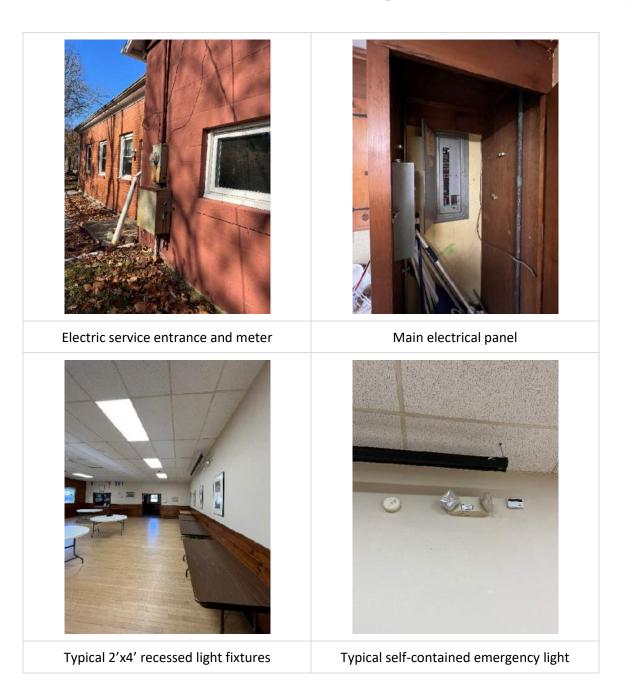
No telecommunication or video surveillance equipment was observed in the property. Intrusion detection consists of door and motion sensors, and security keypads.

Recommendations:

- 1. Retrofitting existing lamps to LED and installation of localized standalone vacancy/occupancy sensors is recommended for additional energy savings.
- 2. The building currently doesn't have an active internet connection. Providing a basic high-speed internet connection is recommended as it will promote a more desirable use of the space. It will also allow for the installation of a small-scale video surveillance system with remote monitoring.

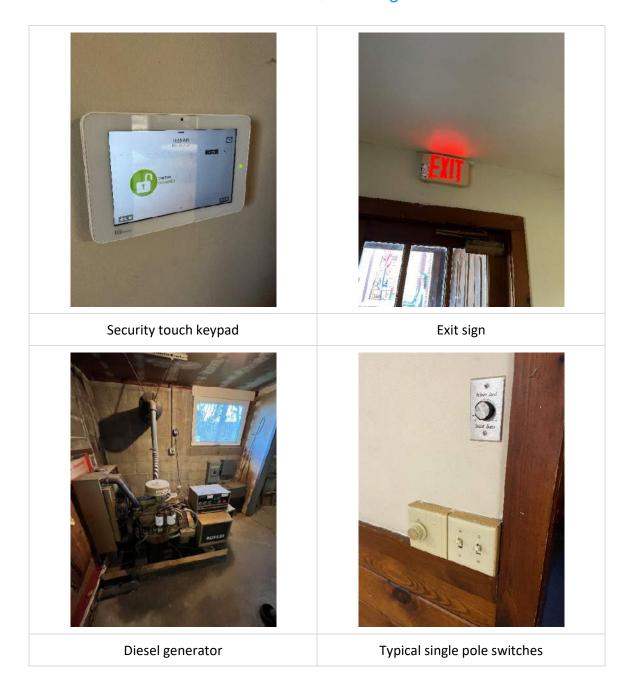
4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM COMMUNITY CENTER 4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Six Town Buildings Facility Assessment

HADDAM COMMUNITY CENTER

4.3.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations

Summary

- 1. Replace plumbing fixtures (i.e. faucets, toilets) with low-flow water saving plumbing fixtures.
- 2. Insulate all domestic cold and domestic hot water piping.
- 3. Insulate all heating hot water piping.
- 4. Ensure thermostats are programmed correctly with night set backs and heat is set back during unoccupied hours.
- 5. Provide split system air conditioning units/heat pumps to provide cooling and back up heating. An Energy Recovery Unit could be added for enhanced indoor air quality.
- 6. Retrofit existing lamps to LED.
- 7. Install localized standalone vacancy/occupancy sensors for additional energy savings.
- 8. Provide a basic high-speed internet connection. This will promote a more desirable use of the space and allow for the installation of a small-scale video surveillance system with remote monitoring.

Structural Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a cursory structural conditions analysis of the existing facility. MHAI's observations were limited due to in place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the first-floor level at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This one-story, wood framed structure was originally constructed as a fire house in 1965, with an addition/renovation constructed in later years. There appears to be a separation joint between the addition and the existing building.

The structure is supported on what appears to be a cast-in-place concrete foundation. There is a change of grade of approximately 2'-0" at the front and side of the building, where the first floor is set below grade. Significant cracks were observed in the concrete slab within the boiler and storage rooms. Please refer to Photograph Exhibits #1 and #2. The cause of the cracks could not be determined, however, no vertical displacement was detected, therefore the cracks are likely due to the shrinkage of the concrete after placement. The cracks should be repaired and monitored for future movement.

The exterior walls above the foundations consist of a mixture of brick veneer with wood stud backup; exposed concrete masonry units (CMU); and wood siding with a wood stud backup.

Cracking was observed in both the exterior CMU walls and the brick veneer, in various locations. No control joints were visible in the veneer which could explain the cause of vertical cracking at the long stretches of wall. Cracks were also observed in the brick chimney extension above the roof and require repair. Previous repairs were performed on the chimney and should be inspected. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #3 and #4. Please note that failure to repair the brick chimney could result in failing bricks.

Precast concrete lintels are present on the rear elevation of the building over the window and door openings. Horizontal cracks are present in the lintels. The cracks are likely caused by either overstressing of the lintel or water infiltration into the lintel that has caused the reinforcing to begin to corrode. The lintels should be replaced with new steel or precast. Cracking and displacement of the CMU were observed in the rear exterior walls, as

well as open control joints. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #5 and #6. It could not be determined if brick ties were present, or their condition.

As previously stated, the interior face of the exterior walls and roof framing are concealed by in place finishes and could not be observed. Some cracking of the finishes was observed. The cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibits #7.

The exterior stone planter walls located on the north side of the building are displaced and in need of repairs. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these walls must be repaired to prevent further damage. Please refer to Photograph Exhibits #8.

A wood framed cupola is present on the roof and could not be inspected. The integrity of the cupola structure and the attachment to the roof should be inspected to determine if remedial work is required.

This concludes our structural conditions analysis for this facility.



Exhibit 1



Exhibit 2

4.3.3: Page 3 of 6



Exhibit 3



Exhibit 4



Exhibit 5



Exhibit 6

4.3.3: Page 5 of 6



Exhibit 7



Exhibit 8

4.4 Haddam Senior Center

Architectural Conditions Analysis	4.4.1
Mechanical, Electrical, and Plumbing Conditions	
Structural Conditions Analysis	4.4.3

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Existing Building The Haddam Senior Center, located at 923 Saybrook Road, is an Italianate style structure built in 1867. The one-story structure was originally the First District Schoolhouse and was converted into the Senior Center some time later.

As described on the Town of Haddam website, the Senior Center is: "A family-friendly, non-denominational gathering space, designed to promote the social, intellectual, and physical well-being of adults 60 and older within the community by providing an array of programs as well as information and access to local services. In addition, the Haddam Senior Center serves as a congregate meal site, offering seniors the option of a prepared, well-balanced, affordable lunch in a comfortable community setting."



Exterior view from Saybrook Road



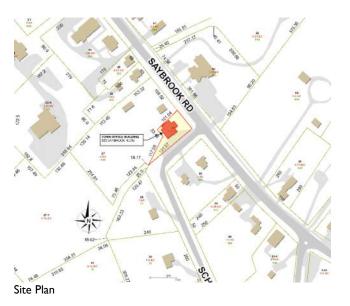
Exterior views

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

The Senior Center sits on relatively flat grade across the street from the Brainerd Memorial Library off of Saybrook Road. Parking is provided on the south side of the property, with access off of Schoolhouse Lane.



Aerial view



This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Building Profile	Haddam Senior Center 923 Saybrook Road Haddam, CT 06438	
	Original Construction:	c. 1867
	Lot Size:	.35 acres
	Zoning:	R-2A
	Number of Parking Spaces:	7 spaces, incl. one (1) ADA
	Building Façade:	Wood clapboards
	Roof Construction:	Asphalt Shingles
	Occupancy Classification:	A, Assembly
	Construction Type:	VB – Unprotected-Combustible
	Fire Protection System:	No
	Emergency Generator:	No
	Handicap Accessible:	Yes
	Number of Floors:	One Floor
	Existing Total Floor Area:	2,112 SF (gross area)

Building Site

Site Conditions

The Haddam Senior Center, situated on approximately .35 acres, sits on a relatively flat site across the street from the Brainerd Memorial Library. A concrete sidewalk provides access to the library. The sidewalks appear to be in good condition, with no cracking and heaving.



Street view looking north

The parking lot provides seven spaces, of which, one is ADA accessible. The handicapped space is clearly indicated with signage and striping. Overflow parking can be accommodated by the library across the street, however, this is not ideal for a Senior Center.



Entrance to parking lot



View of parking lot from School House Lane

Landscaping at the Senior Center is minimal and well maintained. Shrubs and plantings are located at the east perimeter of the building, with a medium sized birch in the middle of the front yard.



Shrubs at North Elevation

Sidewalk to crosswalk

4.4.1: Page 4 of 15

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Senior Center are wood framed, clapboard and shiplapped sided, and overall appear to be in good condition. Although it could not be confirmed, insulation at the exterior walls is likely minimal.







South Elevation



Shiplap siding



Clapboard siding

Portions of the foundation appear to be original to the structure, constructed from stone and mortar. The Kitchen and Toilet Room addition at the rear of the building are built on a newer cast-in place concrete foundation. Except for some efflorescence, and poor mortar joints, the foundations appear to be in good condition.







Newer concrete foundation

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Building Envelope – Roofs, Gutters, & Chimneys

The Senior Center roof is a gabled structure with a large bell tower and broad overhanging eaves. The asphalt roof shingles appear to be in good condition; however, the age of the shingles could not be concluded, and if the installation was 20 or more years ago, replacement should be considered.







Bell tower

The chimney appears to be in good condition, however there are several spalled bricks, some visible efflorescence, and it is need of cleaning and re-sealing.



Spalled masonry at chimney



Visible efflorescence at chimney

Typical K-style gutters run the eaves of the gabled roof, with multiple downspouts. Downspouts typically discharge to daylight.



View of roof eave and gutters



4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Building Envelope – Exterior Doors

The primary entrance to the Senior Center is located on the south elevation, off the parking lot. The half glass metal door is provided with ADA compliant hardware and is in good condition.



Main Entry door, exterior



· EXIT-

Main Entry door, interior

There are two original doors to the Senior Center from schoolhouse days that are no longer in use.



Original exterior doors

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.1 Architectural Conditions Analysis

Building Envelope – Windows

The windows along the front and sides of the Senior Center are simulated divided lite, 12 over 12, vinyl, double hung windows. They appear to be newer and insulated, and are in good condition.



Double hung windows at front and sides

Windows in the Toilet Rooms are vinyl awnings. Kitchen windows are 6 over 6 vinyl double hung. Similar to the front windows, they appear to be relatively newer and insulated.



Awning windows at Toilet Rooms



Double hung windows at Kitchen

Building Envelope – Porches, Steps, and Ramps

An accessible concrete ramp at the south entrance allows for handicapped access to the Senior Center. Handrail extensions are not provided.



Accessible ramp entrance

Concrete steps lead to the original school entry doors. The steps are overgrown with moss and organic matter, and there are multiple cracks. Wrought iron handrails do not meet current ADA guidelines, lacking extensions and size requirements.





North steps

Building Interior Building Interior – Meeting Room

The 1,440 square foot Meeting Room is the primary space of the Senior Center and the large open room allows for multiple activities at one time. Overall, the space is in good condition, however, due to the open nature of the space, it is difficult for quieter activities to occur while larger events are occurring at the same time.



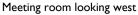
Meeting room looking south



Meeting Room looking north



Meeting Room looking north



Building Interior – Office

The Senior Center Office is a small room located off the Meeting Room. The space is cramped and only allows enough room for one office worker. There is no area for additional staffing without taking away from the Meeting Room. Additionally, with the office located directly off the Meeting Room, it does not allow for much privacy, even with a closed door.



View of Office from Meeting Room



Building Interior – Mechanical Room

The Mechanical Room is a closet space located directly off the Kitchen. Mechanical equipment is tight in the room and there is little space for workers to maneuver around. Kitchen paraphernalia was blocking the door at the time of this review.



Door to Mechanical Room from Kitchen

Building Interior – Flooring



Mechanical equipment

The flooring for the Senior Center is typically VCT. Most flooring appears to be in fair condition, although somewhat worn and there are several areas of cracked tiles.



Typical VCT flooring in Meeting Room

Flooring for the Office is sheet vinyl and is worn and dated.



Typical vinyl flooring in office



Transition from VCT to vinyl

Building Interior – Walls



Typical VCT flooring in toilet rooms



Crackedl VCT

The interior walls of the Senior Center are typically in very good condition, with clean painted walls, and only minimal cracks.



Typical Ist Floor wall



Typical 2nd Floor wall

Building Interior – Ceiling

The ceilings overall are in good condition, however ACT ceiling in the Meeting Room is showing signs of sagging. Gypsum board ceilings throughout are in good condition.



Typical Meeting Room ACT ceiling





Typical corridor gypsum board ceilings

Building Interior – Doors and Hardware

The typical doors throughout the Senior Center are 6 panel wood doors, All doors appear to be in good condition. Door handles are generally door knobs and are not ADA compliant, however the ADA t toilet room is equipped with accessible hardware.



4.4.1: Page 13 of 15

Building Interior – Kitchen

Kitchen cabinets, countertops, and fixtures all appear to be in fair condition and operable, however several doors were found to be damaged or loose on hinges. They are dated in appearance and are not ADA compliant. Cabinets should be at 34" in height and do not provide knee space at the sink for wheelchair access. Upper cabinets are also out of the required 48" reach zone.





Kitchen

Building Interior – Toilet Rooms

Two toilet rooms are provided, one of them is ADA accessible. Fixtures and finishes are in good condition.



I st Floor toilet room



ADA toilet room

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Senior Center is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities:

Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Site</u>
 - a. Additional parking is recommended
- 2. <u>Exterior</u>
 - a. Clean and seal masonry chimney
 - b. Clean efflorescence from foundation
- 3. <u>Doors</u>
 - a. Update door hardware to ADA standards
- 4. <u>Floors</u>
 - a. Provide new flooring and wall base throughout
- 5. <u>Kitchen</u>
 - a. Complete renovation of kitchen. Provide kitchen cabinets, fixtures, and appliances that are ADA compliant
- 6. <u>Ceilings</u>
 - a. Provide new ACT ceiling and grid
- 7. <u>Programmatic Needs</u>
 - a. Smaller group spaces
 - b. Storage space
 - c. Office/administrative space
 - d. Mechanical space is tight

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

HADDAM SENIOR CENTER 4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Plumbing

Domestic Water

The buildings domestic water is supplied from an on-site well water system. There is a 20-gallon well storage tank located inside the building mechanical room. The well storage tank was manufactured on May 7, 2012 and installed on August 9, 2012. The unit appears to be in good working condition but is nearing the end of its life as well tanks are typically replaced every 10 to 15 years. Domestic water piping is a combination of copper and PEX. Recommend replacing well storage tank. Recommend installing low flow plumbing fixtures to reduce water consumption.

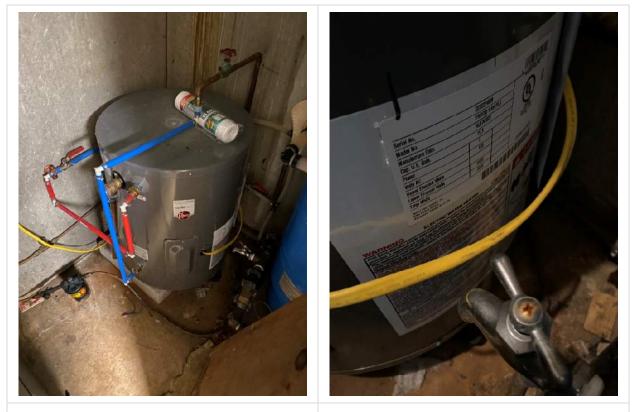


4.0 Existing Facility Survey Six Town Buildings Facility Assessment

4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Domestic Hot Water Plant

The buildings domestic hot water is generated by a 20-gallon electric storage tank water heater. Water heater was manufactured on June 16, 2022 and appears to be in good working condition. Recommend insulating all domestic hot and cold copper piping to reduce heat loss and energy loss.



Water Heater

Water Heater Manufacturer Plate

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Oil Supply

The building is currently heated with heating oil. There is a large storage tank located in a shed along the building exterior. Oil is currently supplied to the buildings HVAC equipment.



Shed for Oil Tank

Oil Tank

Mechanical

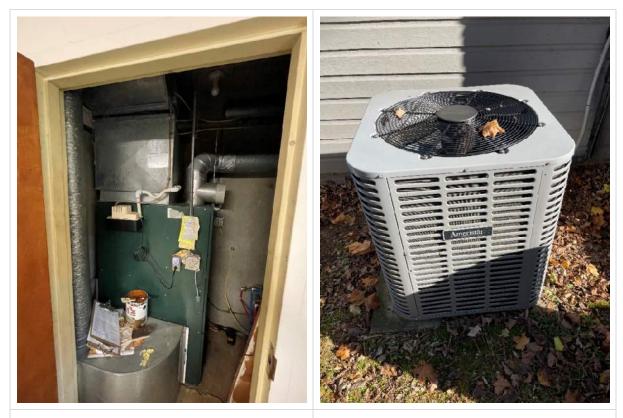
Heating and Cooling

The buildings heating and cooling is provided by an oil fired vertical air handling unit (AHU). This unit is provided with a DX cooling coil connected to a grade mounted condensing unit. The unit or the building does not have any mechanical ventilation/outdoor air. There are operable windows in the building. The AHU distributes heating and cooling via an overhead ducted supply air system. The unit is controlled by a programmable stand alone local thermostat. The AHU is in fair condition.

Recommendations:

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Ensure the thermostat is programmed with a night set back and set back while the building is unoccupied.



Vertical Air Handling Unit

Grade mounted Condensing Unit

Electrical

Electrical Service and Distribution

The building is fed by a 200Amp, 240/120V, 1-phase, 3-wire service via overhead lines originating on the main road.

The main electrical panelboard is located in a utility closet and feeds various mechanical, lighting, and receptacle loads.

The closet housing the main electrical panelboard is currently being used as storage. Boxes and other elements were observed partially blocking equipment and working clearances.

Lighting

Lighting in the building consists of recessed or surface lensed 2x4 fixtures. The lamp type or style of fixtures vary by location but are mostly linear T8 fluorescent. Controls consist primarily of single pole toggle switches.

Emergency lighting consists of combination exit sign or stand-alone selfcontained battery units. Code compliant coverage was observed in the corridors and areas of assembly.

Fire Alarm

The building contains an addressable horn-strobe fire alarm system by Fire Lite. The fire alarm control panel is located in the main entrance lobby, connected to a cellular wireless communicator by Starlink. The building is protected by smoke detectors and manual pull stations at the points of egress. Visual and/or sound notification appliances were observed at required locations.

Telecommunications & Security

The building is served by internet service provided by a wifi-enabled cable modem located in the main open gathering area.

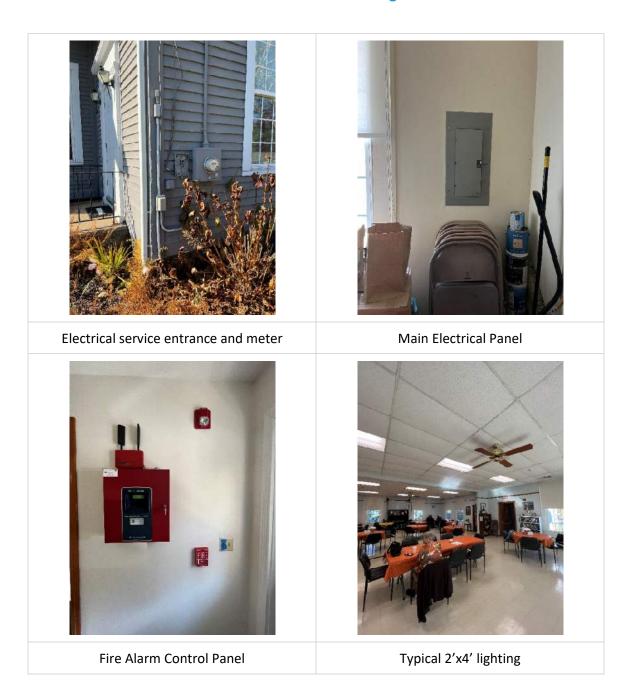
No video surveillance or intrusion detection system was observed in the property.

Recommendations:

- 1. Retrofitting existing lamps to LED and installation of localized standalone vacancy/occupancy sensors is recommended for additional energy savings.
- 2. Installing a security system and a small-scale video surveillance system with remote monitoring will improve the physical security of the building, its occupants, and internal assets.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis





4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM SENIOR CENTER 4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Six Town Buildings Facility Assessment HADDAM SENIOR CENTER

4.4.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations Summary

- 1. Replace plumbing fixtures (i.e. faucets, toilets) with low-flow water saving plumbing fixtures.
- 2. Insulate all domestic cold and domestic hot water piping.
- 3. Replace existing well-water storage tank.
- 4. Ensure the thermostat is programmed with a night set back and set back while the building is unoccupied.
- 5. Retrofit existing lamps to LED.
- 6. Install localized standalone vacancy/occupancy sensors for additional energy savings.
- 7. Installing a security system and a small-scale video surveillance system with remote monitoring will improve the physical security of the building, its occupants, and internal assets.

Structural Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a structural conditions analysis of the existing facility. MHAI's observations were limited due to in place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the first-floor level at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This one-story, wood framed structure, constructed in 1867 with a subsequent addition in later years (date unknown), is supported on a combination of cast-in-place concrete and stone foundations. Repointing of the stone joints is required in various areas. However, the foundations overall were observed to be in sound condition. Please refer to Photograph Exhibits #1 and #2.

As previously stated, the wood framing is concealed by in-place finishes and could not be observed. The first floor appears to be a supported floor over a crawlspace. Please refer to Photograph Exhibit #3. Deflection of the floor framing was observed in one of the offices located towards the front of the facility. Access to the crawlspace was not available. The cause of the deflection cannot be determined without access to the crawlspace or exploratory work to expose the floor framing.

Some cracking of the plaster finishes was observed, however, the cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Please refer to Photograph Exhibit #4.

At the exterior concrete stairs and landings; cracking, corrosion of railings at the point of embedment, and opening of joints were observed. Please refer to Photograph Exhibit #5. Water infiltration, freeze/thaw cycles and the application of deicers will cause these deficiencies to worsen. These areas should be repaired to avoid further disrepair of the stairs and railings.

The masonry chimney is also in need of repairs. Missing bricks and failed mortar joints were observed. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, potentially causing additional bricks to fall. Repointing of the joints and replacement of the missing bricks is required. Please refer to Photograph Exhibit #6.

This concludes our structural conditions analysis of this facility.



Exhibit 1



Exhibit 2



Exhibit 3



Exhibit 4



Exhibit 5



Exhibit 6

4.5 Haddam Municipal Annex

Architectural Conditions Analysis	4.5.1
Mechanical, Electrical, and Plumbing Conditions	
Structural Conditions Analysis	4.5.3

Existing Building The Haddam Municipal Annex, located at 11 Jail Hill Road, is a gambrel structure built in 2001 to provide social services for the Town of Haddam. The two-story wood framed building provides space for public services and food pantry for the disadvantaged on the lower level, and space for donated goods to be dropped off and picked up on the upper level.



Exterior - North elevation showing entry to lower level Social Services

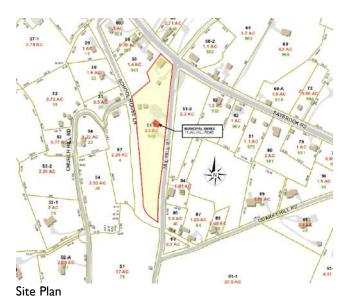


Exterior - South elevation showing entry to upper level Donations/Collections

The Annex shares its site with the Haddam Gaol and Workhouse on sloping grade off of Jail Hill Road. Parking is provided for Social Services on the north side of the property, and on the South side for Donations.



View looking south



This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX 4.5.1 Architectural Conditions Analysis

Building Profile	Haddam Municipal Annex 945 Saybrook Road Haddam, CT 06438	
	Original Construction:	2001
	Lot Size:	4.2 acres
	Zoning:	R-2A
	Number of Parking Spaces:	North Lower Lot - 16 spaces, incl. one (1) ADA spaces
		South Upper Lot – Four, incl. two
		(2) ADA spaces
	Building Façade:	Vinyl Siding
	Roof Construction:	Asphalt Shingles
	Occupancy Classification:	B, Business
	Construction Type:	VB – Unprotected-Combustible
	Fire Protection System:	No
	Emergency Generator:	No
	Handicap Accessible:	Yes
	Number of Floors:	Two Floors
	Existing Total Floor Area:	2,352 SF (gross area)

Building Site

Site Conditions

Located on Jail Hill Road, off of Saybrook Road, the Municipal Annex is situated on approximately 4.2 acres, on a sloping site shared with the Haddam Gaol and Workhouse.



Aerial view

Parking is provided in two lots, a northern one for the 1st Floor Social Services, and a southern one for the 2nd Floor Donations. There is no signage to indicate which lot one should park in for the respective services.

The lower lot provides 16 spaces, of which, one is ADA accessible. The upper lot provides four spaces, two of which are ADA accessible. Handicapped spaces are clearly indicated with signage and striping. Although mostly still in good condition, there are multiple cracks in the paving in both lots.



Entrance to lower parking lot



Entrance to upper parking lot



ADA spaces – lower lot



ADA spaces – upper lot

Concrete sidewalks lead from the parking areas to the Annex. Several areas were noted with cracking. These areas could be tripping hazards and will continue to get worse with water infiltration and freezing.





Cracks in various concrete sidewalks

Landscaping at the Annex is minimal and well maintained, with several shrubs and plantings along the concrete walk to the 1st Floor Social Services.



Plantings along North Elevation



South Elevation

A stone retaining wall along the west side of the property appears to be in good condition. The cast-in-place retaining wall along the south east entry to the upper level is showing multiple areas of cracking and spalling





Stone retaining wall

Cast-in-place retaining wall, areas of cracking and spalling

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Municipal Annex are wood frame on cast-inplace foundation walls, with vinyl siding. There are several locations on the siding that require cleaning, and multiple spots on the west elevation that are dented, cracked, and rippling. Several small crack lines were noted on the concrete foundation, as well as some slight efflorescence.





South Elevation

West Elevation



North Elevation



East Elevation

Building Envelope – Roofs & Gutters

The Municipal Annex roof is a gambrel structure with asphalt shingles. The roof shingles appear to be in good condition, with no significant staining, fading, curling, or obvious damage. However, the age of the shingles could not be concluded, and if the installation was 20 or more years ago, replacement should be considered.



Aerial view of roof



Interior view of roof structure

K-style gutters run the eaves of the roof, with downspouts at each of the building corners. Downspouts typically discharge to daylight.





View of roof eave, gutters, and downspouts.

Building Envelope – Exterior Doors

Entry to the 1st Floor Social Services offices and the food pantry is an aluminum and glass door that appears to be in good condition. The 2nd Floor Donations and Collection entry is a single steel door with a narrow glass lite and also appears to be in good condition. Both doors are ADA compliant.

The upper floor has a secondary egress door on the west elevation that leads to an outdoor stair. The flush panel, steel clad door provides no hardware for entry and is only for egress purposes.



Ist Floor Entry door, exterior



2nd Floor Entry door



Ist Floor Entry door, interior



2nd Floor egress door

Building Envelope – Windows

The windows at the Municipal Annex are vinyl clad casement windows and appear to be original to the building's construction. Although they appear to be in good condition, they are nearing their 30-year life.



Typical casement windows, north elevation



Typical casement windows, south elevation



Typical casement window, interior



Typical casement window, interior

Building Envelope – Porches, Steps, and Ramps

Access to the 1st Floor is via a concrete ramp that is ADA compliant and provides a direct route from the north parking lot to the building entry. The steel tube handrail that runs the length of the ramp is constructed to the proper height and has the compliant handrail extension at the end. Efflorescence and cracking was noted at one end of the ramp.



ADA ramp at building entry



Efflorescence and cracking at bottom of ramp

A concrete sidewalk provides access from the south parking lot to the 2^{nd} floor Donations and Collections



Views of sidewalk to 2nd floor entry



As noted earlier, there is a second door for egress on the 2^{nd} Floor that leads to an external covered staircase to grade. The wood framed steps appear to be in good condition.



2nd Floor egress stair

Building Interior Building Interior – 1st Floor Offices

There are two office spaces on the Ist floor to provide social services for the Town of Haddam. Each office has sufficient space for a single occupant, however there is little room to expand if more staff is ever needed.



Ist Floor Office



Ist Floor Office



Ist Floor lobby

<u>Building Interior – 1st Floor Food Pantry & Storage</u> In addition to Social Services, the 1st Floor is used for a food pantry for the residents of Haddam. Storage space appears to be sufficient, however this should be reviewed with the Annex staff to verify if their needs are being met.

The 2nd Floor is not accessible from the 1st Floor, so residents in need of both food and clothing are required to leave the building and walk or drive around to the other side to get to the other floor for their needs.



Ist Floor Storage



Ist Floor Storage

<u>Building Interior – 2^{nd} Floor Donations/Collections Space</u> The 2^{nd} Floor of the Municipal Annex is used for donations and collections of clothing and goods for the Town People of Haddam in

need. The large open space is in good condition. However, as noted in the previous section, there is no direct access to the 1st Floor.



2nd Floor Donations Room



2nd Floor Donations Room

<u>Building Interior – Mechanical</u> Mechanical space is located on the 1st Floor of the Annex and appears to be in good condition.



Mechanical Space



Mechanical Space

Building Interior – Flooring

The flooring for the Municipal Annex is VCT in the common areas, and LVT wood plank in the main foyer and offices. The newer LVT is in excellent condition. VCT is in good condition, however dated in appearance. Cracking was noted in several areas.



Typical 1st floor LVT flooring



Ist Floor VCT in corridor



2nd Floor VCT in Donations Space

Building Interior – Walls



Ist Floor VCT in toilet room



2nd VCT in toilet room

The interior walls are typically in very good condition with no major dents or dings. The typical concerns with most walls are scuff marks that can be resolved with new paint.



Typical Ist Floor wall



Typical 2nd Floor wall

Building Interior – Ceiling

The ceilings overall are in good condition. Ceilings on the 1st floor are gypsum board and show no signs of obvious marks or cracks.

Ceilings on the 2^{nd} floor are newer 2x4 ACT tiles and are in excellent condition.



I st Floor gypsum board ceiling



Ist Floor gypsum board ceiling



2nd Floor ACT ceiling

2nd Floor ACT ceiling

Building Interior – Doors and Hardware

The typical doors throughout the Municipal Annex are flush panel metal doors. Door handles are a combination of door knobs and levers are not always ADA compliant.



Typical doors

4.5.1: Page 14 of 16

Building Interior – Kitchen

The Ist Floor kitchen cabinets, countertops, and fixtures all appear to be in good condition, however they are not ADA compliant. Cabinets are not the proper height, nor do they provide knee space at the sink for wheelchair access.





Lower level Kitchenette

Lower level Kitchenette cabinets

<u>Building Interior – Toilet Rooms</u>

Toilet Rooms are provided for on the 1st and 2nd Floors. Fixtures and finishes are in good condition.



Ist Floor toilet room



2nd Floor toilet room

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Municipal Annex is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities:

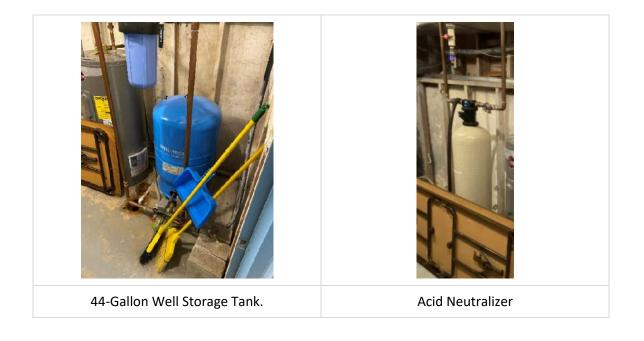
Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Site</u>
 - a. Repair work to the east cast-in-place retaining wall
 - b. Repave parking lot
 - c. New concrete sidewalks
- 2. <u>Exterior</u>
 - a. New 30-year architectural shingles
 - b. Repair work to damaged vinyl clapboard
- 3. <u>Doors</u>
 - a. Update door hardware to ADA standards
- 4. <u>Windows</u>
 - a. Provide new thermally efficient vinyl windows
- 5. <u>Kitchen</u>
 - a. Provide kitchen cabinets, fixtures, and appliances that are ADA compliant
- 6. <u>Programmatic Needs</u>
 - a. Office space is adequate, but minimal
 - b. Access between floors internally would be beneficial
 - c. Storage is adequate, but could be better planned. Clothing is upstairs and food pantry is downstairs

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX 4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

PlumbingDomestic WaterThe buildings domestic water is supplied from an on-site well water system. There
is a 44-gallon well storage tank and acid neutralizing water treatment device
located inside the building mechanical room. The well storage tank was
manufactured on May 2, 2017 and appears to be in good working condition.
Domestic cold water piping is copper with soldered and press-fit fittings. Piping is
currently un-insulated. Recommend installing low flow plumbing fixtures to
reduce water consumption.



4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX 4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Domestic Hot Water Plant

The buildings The buildings domestic hot water is generated by a 40-gallon electric storage tank water heater. The water heater was manufactured on February 16, 2021 and appears to be in good working condition. Domestic hot water piping is copper with soldered and press-fit fittings. Piping is currently uninsulated. Recommend insulating all domestic hot and cold water piping to reduce heat loss and energy loss.



Mechanical Room

Water Heater

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX 4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Propane Supply

There is a 500 gallon above ground propane tank located outside the building which currently serves the building's HVAC equipment. Gas piping inside the building is black steel with threaded fittings.



500-Gallon Propane Tank

Propane Gas Piping to HVAC Unit

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX

4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Mechanical

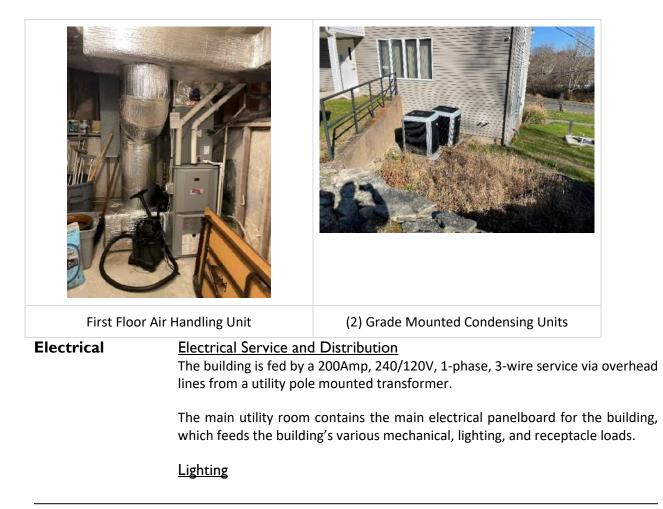
Heating and Cooling

The building is heated and cooled via two Air Handling Units (AHU). The first floor is heated and cooled with a propane fired vertical AHU. The AHU is also equipped with a DX cooling coil that is connected to a grade mounted outdoor condensing unit. The AHU is connected to ductwork which distributes heated and cooled air to the various rooms. There is no mechanical ventilation/outdoor air connected to the AHU. There are operable windows in the building. The AHU is controlled by a stand alone programable thermostat.

The second floor has a similar configuration for heating and cooling.

Recommendations:

To provide enhanced indoor air quality an Energy Recovery Unit can be added and paired with the existing AHU to provide ventilation air. Ensure thermostats are programmed correctly with night set backs and heat is set back during unoccupied hours.



Six Town Buildings Facility Assessment

HADDAM MUNICIPAL ANNEX 4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Lighting in the building consists primarily of surface linear lensed fixtures. The lamp type or style of fixtures vary by location (CFL or T8 fluorescent retrofit). Controls consist primarily of single pole toggle switches. Exterior building mounted lighting is controlled via timeclock and photocell.

Emergency lighting consists of combination exit sign or stand-alone selfcontained battery units. Code compliant coverage was observed in the corridors.

Fire Alarm

The building contains an addressable horn-strobe fire alarm system by Fire Lite. The fire alarm control panel is located in the main utility room, connected to a cellular wireless communicator by Starlink. The building is protected by smoke detectors and manual pull stations at the points of egress. Visual and/or sound notification appliances were observed at required locations.

Telecommunications & Security

The building is served by internet service provided by a wifi-enabled cable modem located in one of the offices. A wall section in the utility room contains punch down blocks for cooper.

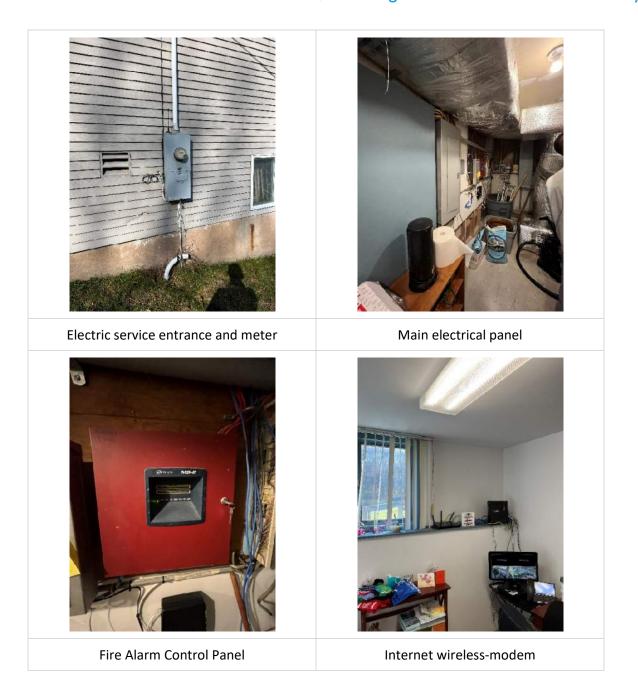
Security consists of video Surveillance cameras around the building perimeter. No Intrusion detection was observed in the property.

Recommendations:

- 1. Retrofitting existing lamps to LED and installation of localized standalone vacancy/occupancy sensors is recommended for additional energy savings.
- 2. Installing a security system will improve the physical security of the building, its occupants, and internal assets.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM MUNICIPAL ANNEX 4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey

Six Town Buildings Facility Assessment

HADDAM MUNICIPAL ANNEX

4.5.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations Summary

- 1. Replace plumbing fixtures (i.e. faucets, toilets) with low-flow water saving plumbing fixtures.
- 2. Insulate all domestic cold and domestic hot water piping.
- 3. Provide Energy Recovery Unit, paired with the existing AHU, to provide ventilation air and enhanced indoor air quality.
- 4. Ensure thermostats are programmed correctly with night set backs and heat is set back during unoccupied hours.
- 5. Retrofitting existing lamps to LED.
- 6. Install localized standalone vacancy/occupancy sensors for additional energy savings.
- 7. Installing a security system will improve the physical security of the building, its occupants, and internal assets.

Structural Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a cursory structural conditions analysis of the existing facility. MHAI's observations were limited due to in place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the supported floor levels at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This two-story, wood framed structure, constructed in 2001, is supported on a cast-in-place concrete foundation. The exterior grade slopes from the front to the rear (north to south) of the structure. Due to this grade differential, the building foundation is performing as a retaining wall, however no distress was observed. Minor cracking was observed in the foundation walls, in various locations. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #1 and #2. Except for the minor cracking indicated, the building foundation was observed to be in sound condition.

As previously stated, the wood framing of the supported floors and roof level are concealed by in place finishes and could not be observed. Some cracking of the finishes was observed; however, the cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required.

The exterior concrete site retaining walls located on the south side of the building requires structural repairs. Deficiencies such as cracking, surface spalling, and cracks at the railing embedment were observed. Water infiltration and freeze/thaw cycles will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #3 thru #5.

The exterior concrete sidewalks are in need of repairs, such as cracking and spalling of the concrete. Repairs were previously performed, however these patches have failed in various locations. Water infiltration, freeze/thaw cycles and the application of deicers will cause these deficiencies to worsen, and these areas should be repaired. Please refer to Photograph Exhibits #6.

This concludes our structural conditions analysis of this facility.



Exhibit 1



Exhibit 2



Exhibit 3



Exhibit 4



Exhibit 5



Exhibit 6

4.6 Haddam Elementary School

Architectural Conditions Analysis	4.6.1
Mechanical, Electrical, and Plumbing Conditions	
Structural Conditions Analysis	4.6.3

Existing Building The Haddam Elementary School, located at 272 Saybrook Road, is a two story brick structure originally built in 1948, with additions built in 1953 and 1989. Due to a school restructuring plan, the school was closed in 2019 and is currently being looked at for adaptive re-use to contribute to the area of Higganum Village.



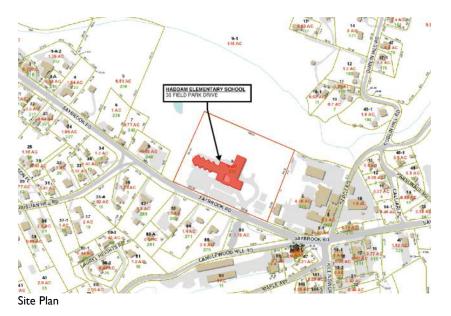
Exterior



The school is located on flat terrain with the grade sloping down on the north side towards the east. Parking is provided on the south side of the property, with access off of Saybrook Road.



Site aerial



This report includes descriptions of the various systems, the areas they serve, system capacities, existing conditions, areas of concern, and recommendations for each system. Existing Code-related items and issues are reviewed for conformance with building codes presently in effect at the time of this Study.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.1 Architectural Conditions Analysis

Building Profile	Haddam Elementary School 272 Saybrook Road Haddam, CT 06438	
	Original Construction:	1948
	Additions:	1953, 1989
	Lot Size:	9 acres
	Zoning:	R-I
	Number of Parking Spaces:	80 spaces, incl. (2) ADA
	Building Façade:	Brick veneer
	Roof Construction:	EPDM
	Occupancy Classification:	E, Education
	Construction Type:	VB – Unprotected-Combustible
	Fire Protection System:	No
	Emergency Generator:	No
	Handicap Accessible:	Yes
	Number of Floors:	Two Floors
	Existing Total Floor Area:	44,000 SF (gross area)

Building Site

Site Conditions

The Haddam Elementary School is situated on approximately 9 acres near Higganum Center directly off of Saybrook Road. Concrete sidewalks line the south side of the building and lead to the Center. The sidewalks are in moderate condition and there are areas of notable cracking. Access to the site is relatively easy from Saybrook Road at multiple entrances.



View from Saybrook Road

The parking lot is split between a larger lot, directly in front of the school, and a smaller lot, to the south east of the building. Overall, it provides 88 spaces, of which two spaces are ADA accessible.

There are two paved play areas to the north east of the school. And the playground to the west of the school appears to have been recently taken down.



Site aerial indicating parking lots and playgrounds

Paving overall is in moderate condition in the parking lot and drop off areas. Although there is no major damage, paving is cracked and parking lines are faded.





Entrance to parking lot

View of parking lot

Asphalt paving abuts much of the rear of the school and is cracked and buckling.



Typical asphalt paving at rear of school

As noted earlier, sidewalks around much of the school are showing signs of deterioration, cracking, and general disuse.



Typical damage at concrete sidewalks

Landscaping around the school consists of small trees and bushes around the front of the building, primarily located around the entries. Low post and rail fencing lines the front of the west wing.

4.0 Existing Facility Survey

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.1 Architectural Conditions Analysis



Typical fencing and landscaping at west wing

A central courtyard between the older entrance and the new is surfaced with brick pavers. The landscaping appears to be in good condition and not overgrowing, however, organic growth is expanding in the joints of the pavers and may eventually cause damage.



Courtyard pavers and landscaping

Building Envelope Building Envelope – Exterior Walls

The exterior walls of the Haddam Elementary School are brick veneer with CMU block or wood stud backup, and overall appear to be in good condition. Mortar joints typically show minimal signs of cracking; however, some open joints and spalling were noted on the west façade. Some cracking was also noted in the cast-in-place foundation. Staining on the brick was observed at multiple window sills and near leaders. Graffiti was noted on the west elevation.



South east elevation



Crack in cast-in-place foundation



North east elevation



Staining at brick



Staining at rain leaders and window sills



Open mortar joints and spalled brick & column requiring painting



Staining, cracked brick



Graffiti

Building Envelope – Roofs and Gutters

The Haddam Elementary School roof is primarily flat with an EPDM surface. The EPDM has been inspected and repaired over 20+ years, and well maintained; however, with an aging roof, replacement should be considered.



Aerial of roofs

The asphalt shingles on the gabled Multi-purpose room and Gymnasium have exceeded their life expectancy and loose and missing shingles were noted.



Asphalt roof at gymnasium



Asphalt roof at old entry

Gutters and leaders appear to be in good condition; however, several bent and damaged leaders were noted around the perimeter of the building. Leaders typically run to underground piping, although several do run to daylight.



View of roof eave, downspouts, and underground connections

Building Envelope – Exterior Doors

There are multiple entrances to the Haddam Elementary School. Door styles vary from solid to glass, and are typically in fair to good condition. Doors typically are functioning well, however have chipped paint. Hardware is ADA compliant. Many doors appear to be original to the building and replacement should be considered.



South east Entry door



South west entry door, interior



East entry



East entry door



West entry door



West entry

Building Envelope – Windows

The windows at the Haddam Elementary School are typically aluminum storefront casement or awning style, with insulated glass. The age of the windows could not be determined; however, if they are near 15-20 years, they have reached their life expectancy and should be replaced.





Typical classroom windows

Typical toilet room windows





Typical windows, east wing

Curtain wall window at east entrance, rear

Paint is flaking at steel lintels at windows and they are showing signs of rusting.



Building Envelope – Entry, Porches, Steps, and Ramps

The original entrance to the Haddam Elementary School requires steps and is not handicapped accessible. Barrier free entry is provided at the newer main entrance at the east wing of the school, as well as a secondary entry in the west wing.







Old Front entry steps

Entry colonnade

West entrance

The Haddam Elementary School is fully accessible, however there are several locations steps and ramps are required to navigate entrance into the building or around it. Many of these locations are deteriorating and in very poor condition.



Covered areaway



Steps at rear



Accessible curb cut

Building Interior <u>Building Interior – Mechanical Room</u> Mechanical spaces are located in the basement and typically appear to be in good working condition; however, it was noted that there is visible corrosion on one of the boilers.



Mechanical equipment in basement

Building Interior – Classrooms

Haddam Elementary School provides classrooms located over two floors in the east wing, and one floor in the west wing. Overall, classrooms are

in moderate to good condition. Flooring and ACT ceilings are showing staining, sagging, and general signs of dis-use.



Typical classroom, east wing



Typical classroom, west wing



Typical classroom, east wing



Typical classroom, west wing

Building Interior – Multi-Purpose Room

The Multi-Purpose Room, located centrally in the school, provides a space for multiple events including gym activities, plays, large group meetings, and dining. The space is in good condition overall, although water stains were noted in the ceiling tiles.



Multi-purpose Room, looking towards the stage



View from stage looking south







Stage

Steps to stage

Back stage

Building Interior – Gymnasium

The Gymnasium, located in the lower level of the east wing was part of the last addition to the school. Overall the space is in very good condition, however the floor is cracked, striping is worn, and the surface is slippery.



4.6.1: Page 13 of 20

Gymnasium



Gymnasium

Gymnasium flooring

Building Interior – Flooring

The flooring for the Haddam Elementary School varies from bare concrete in the Mechanical Room, to VCT and carpeting in the corridors and classrooms, to rubber surface flooring in the gymnasium. Most flooring appears to be in fair condition, although worn and stained in places.



VCT at main entrance





Stained carpet in corridor Wrinkled carpet in classroom

Flooring for the east wing Toilet Rooms is IxI tile and in fair condition. There are no significant signs of cracking or damage, however tiles and grout are dirty from age and dated in appearance.









East wing tile flooring in toilet rooms

Flooring in the west wing Toilet Rooms is poured epoxy and is in moderate condition. It is dirty and stained, and locations under urinals have been replaced with what appears to be a concrete epoxy.



West wing epoxy flooring in Toilet Rooms

Building Interior – Walls

The interior walls of the school are typically CMU block, brick, or gypsum wall board. Most walls are in good condition; however, the gypsum wall board walls of the west wing show signs of denting, scuffing and light damage.





K

Gypsum board walls in west wing

Typical CMU wall

Building Interior – Ceiling

The ceilings throughout the school are mostly ACT and are showing signs of water staining, sagging, mis-matched and broken tiles.



Main Entry ceiling



Water stains at classroom ceiling











Water stains and sagging

Building Interior – Doors and Hardware

The doors throughout the Haddam Elementary School vary. Classroom doors are typically solid wood with a slender pane of glass. Office spaces are similar, but often paired with a side lite of glass. Other doors vary form solid wood, to metal with glass lites. All doors appear to be in good condition. Door handles are often door knobs and are not ADA compliant.









Office door

Typical solid wood Typical classroom and Typica library door

Typical metal door

Building Interior – Stairs

There are two primary stair cases in the school. Both are in good condition with ADA and code compliant treads, risers and railing.



Stairs leading to ground Floor



Main stairs



Secondary stair

Building Interior – Elevators

The elevator is located in the two-story east wing. Wall panels, flooring, and controls are all in good condition.



Elevator door at 2nd Floor



Elevator interior



Elevator interior

Building Interior – Toilet Rooms

Boys and girls toilet rooms in the newer east wing are provided for on the 1st and 2nd Floors. Fixtures and finishes are in good condition. ADA compliant stalls and fixtures are provided. As discussed in the ceilings section of this report, the ACT is water stained in multiple areas. The 2x2 floor tile is showing signs of wear and tear.



East wing toilet room

Toilet rooms are also provided in the original school's west wing. A fully compliant ADA stall is not provided, however, ambulatory stalls with grab bars are. Fixtures are in good condition. The epoxy flooring is in moderate condition with staining, pitting, and areas that have been patched in completely. Similar to the newer toilet rooms, the ACT ceiling is drooping and water stained.



West wing toilet room





West wing toilet room

<u>RECOMMENDATIONS</u>

The scope of work presented here for the Haddam Elementary School is in an effort to create a structure that will provide the Town of Haddam a structure that is Building Code and ADA compliant, with newer finishes and equipment, and provide spaces for multiple activities.

In an effort to adapt and re-use the former Haddam Elementary School (HES), the Assessment Team was directed to provide the Town of Haddam two conceptual plans to consider the relocation of the Town departments into the former school. Option I would incorporate some Town Offices in the west wing, while the east wing would be developed into housing units. Option 2 would utilize the entire school for all Town offices. Recommendations as listed here would apply to both options. Refer to Section 6.0, Conceptual Studies, for mor information.

Refer to the Structural and MEP reports for recommendations regarding structural and mechanical concerns.

- I. <u>Site</u>
 - a. Repave parking and re-stripe spaces
 - b. Remove asphalt paving abutting rear of building and replace with sidewalks and landscaping
 - c. Remove and replace existing concrete sidewalk
- 2. <u>Exterior</u>
 - a. Repoint and repair brick veneer
 - b. Repair cracks in cast-in-place foundation
 - c. Clean and reseal brick veneer
 - d. Provide new EPDM roof
 - e. Provide new 30-year architectural asphalt shingles
- 3. <u>Windows</u>
 - a. Replace windows with new energy efficient insulated storefront windows
 - b. Scrape, clean and paint steel lintels
- 4. Doors
 - a. Replace all exterior doors new thermally efficient doors and frames
 - b. Update door hardware to ADA standards throughout
- 5. <u>Elevator</u>
 - a. Inspect and update elevator certification
- 6. <u>Floors</u>
 - a. Carpeting in corridors and classrooms should be removed and replaced with new LVT/VCT
 - b. New gym flooring in the Gymnasium
 - c. Toilet room flooring to be replaced with new epoxy flooring

- 7. <u>Ceilings</u>
 - a. Provide new ACT ceiling that is sag free and clean throughout
- 8. <u>Walls</u>
 - a. Various minor repairs to walls throughout
 - b. New paint throughout

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

PlumbingDomestic Water
The buildings domestic water appears to be supplied from two (2) on-site
well water systems, one (1) old and one (1) new, each with their own
neutralizer. Water is stored in a large semi-underground steel tank that is
partially underground and partially into the basement. The storage tank
appears to be from 2005 and had 3 electrodes replaced on 01-15-2020.
The water system is equipped with a skid mounted duplex booster pump
system with control panel and hydro tank.



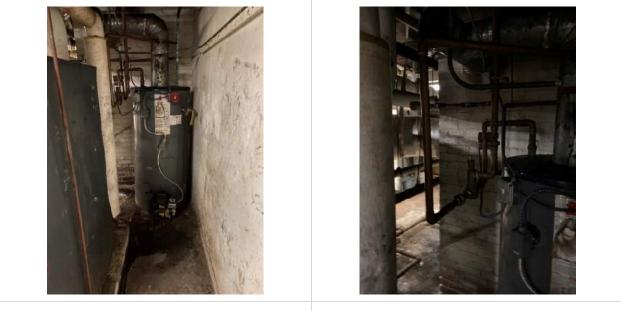
Basement Water Room

Steel Storage Tank

Domestic Hot Water Plant

The buildings domestic hot water is generated by a 70-gallon oil-fired storage tank water heater. Domestic hot water is supplied through a master thermostatic mixing valve. The building is equipped with a hot water recirculation loop and pump. The recirculation pump appears to be new as of 02-14-2023. Recommend insulating all domestic cold water, hot water, and hot water recirculation piping to reduce heat loss and energy loss.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Water Heater

Master thermostatic Mixing Valve

Oil Supply

There is a buried oil tank at the exterior of building which supplies the domestic water heater and boiler plant.



Buried Oil Tank

Oil Tank Level Monitor System

4.6.2: Page 2 of 22

Six Town Buildings Facility Assessment

4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

<u>Recommendations:</u> Based on Architect's Option I (Town utilizes all of the building):

Recommend switching to propane-fired mechanical equipment, discussed further in depth below, and removing the existing buried oil storage tank and all associated oil fill and oil vent piping. Remove existing oil distribution piping within building currently serving the existing water heater and boiler plant.

Remove existing oil-fired water heater and replace with a new propane fired water heater, AO Smith model #BTH-150(A).

Provide three (3) new 1,000-gallon propane tanks at the building exterior. Propane piping will be routed into the building to supply the new domestic water heater and new boiler heating plant.

Remove and replace existing duplex domestic water booster pump package including skid mounted pumps and control panel. Provide new duplex booster pump package, Armstrong 6800 series with integrated controls and variable speed motors. Pumps shall be 208V, I Phase, 2HP each.

Existing plumbing fixtures in the new Town spaces will be removed. Recommend removing all domestic cold water, domestic hot water, and domestic hot water recirculation piping back to the domestic water booster pump in the basement. Provide new domestic cold water, domestic hot water, and domestic hot water recirculation distribution piping to serve the new plumbing fixtures. Provide new drain, waste, and vent piping to tie new plumbing fixtures in existing drain, waste, and vent piping.

Recommend providing low-flow water saving plumbing fixtures by American Standard, or equal.

Recommendations:

Based on Architect's Option 2 (Town utilizes part of the building):

All existing plumbing piping serving portions of the existing building that will be outside the extents of the new Town spaces shall be disconnected and removed.

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommend switching to propane-fired mechanical equipment, discussed further in depth below, and removing the existing buried oil storage tank and all associated oil fill and oil vent piping. Remove existing oil distribution piping within building currently serving the existing water heater and boiler plant.

Remove existing oil-fired water heater and replace with new propane fired water heater, AO Smith model #BTH-120(A).

Provide two (2) new 1,000-gallon propane tanks at the building exterior. Propane piping will be routed into the building to supply the new domestic water heater and new boiler heating plant.

Remove and replace existing duplex domestic water booster pump package including skid mounted pumps and control panel. Provide new duplex booster pump package, Armstrong 6800 series with integrated controls and variable speed motors. Pumps shall be 208V, I Phase, 2HP each.

Existing plumbing fixtures in the new Town spaces will be removed. Recommend removing all domestic cold water, domestic hot water, and domestic hot water recirculation piping back to the domestic water booster pump in the basement. Provide new domestic cold water, domestic hot water, and domestic hot water recirculation distribution piping to serve the new plumbing fixtures. Provide new drain, waste, and vent piping to tie new plumbing fixtures in existing drain, waste, and vent piping.

Recommend providing low-flow water saving plumbing fixtures by American Standard, or equal.

Mechanical <u>Heating, Cooling and Ventilation</u> The heating is provided by two oil fired low pressure steam boilers. Steam is distributed to approximately half the building. One of the boilers has visible corrosion. The other half of the building is heated with hot water, the hot water is generated via a steam to hot water shell and tube heat exchanger. Hot water is distributed by two base mounted pumps. Perimeter radiators are located throughout the building. The radiators are steam or hot water depending on the area of the building. Entrances and vestibules are heated with cabinet unit heaters.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

The gym is provided heat and ventilation by two air handling units that are hung from the structure above. The units are connected to distribution ductwork. Each unit has a steam heating coil and is connected to an outside air intake louver located at the gabled ends of the gym. Two exhaust fans are located on the gym roof.

East wing of the building's classrooms are provided with exhaust via rooftop exhaust fans.

West wing of the building's classrooms are provided with exhaust via a rooftop energy recovery air handling unit.

Three classrooms are provided with through wall air conditioning units for cooling.

Kitchen on lower level has two ducted exhaust hoods.

The office area is cooled and ventilated via a rooftop air handling unit.

The building is equipped with an active radon exhaust system which was installed in 2017.

There are pneumatic controls located in the basement. There is a also a combination of pneumatic and digital thermostats in rooms. The pneumatic controls are by Johnson and the digital are by Alerton.

Six Town Buildings Facility Assessment

4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

Recommendations:

<u>Hydronic Heating System</u> Based on Architect's Option I (Town utilizes all of the building):

Remove existing oil fire steam boilers. Provide two (2) new propane fired high efficiency condensing boilers. Provide pumps to distribute heating hot water to the entire building. Each boiler will be approximately 850 MBH Patterson Kelly Sonic Model SC-850 or similar.

Alternate I: Maintain existing fin tube radiators, adjust as need to accommodate new walls. This would include maintaining existing hot water piping distribution and also providing new hot water piping to new (4) Dedicated Outdoor Air Systems (DOAS).

Alternate 2: Remove all existing radiators and provide new radiators sized for low temperature. New radiators to be provided at perimeter locations. This would also include new heating hot water piping connected to the new boilers and (4) DOAS.

Alternate 3: Remove all existing radiators and provide new ceiling mounted radiant panel heaters. This would also include new heating hot water piping connected to the new boilers and (4) DOAS.

<u>Heating And Cooling System:</u> Based on Architect's Option I (Town utilizes all of the building):

Provide heating and cooling via Variable Refrigerant Flow (VRF) system. This would consist of roof or grade mounted air cooled condensing units. A combination of ducted and ductless indoor evaporator units. Provide (1) three roof mounted DOAS to provide outdoor/ventilation air. DOAS unit will consist of energy recovery, hot water coil, cooling coil and hot gas reheat. This unit would provide ventilation air to the office areas only, i.e. Tax Collector, Assessor, First Selectman, Fire Marshall, Parks and Rec, Social Services, Youth and Family, Building Support and a few future spaces on lower level. Provide Building Management System (BMS) to control heating, cooling and ventilation systems.

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4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

This option shall also include quantity of unit shown below in Option 2.

Gym (assembly space):

Base Bid:

Maintain (2) existing ceiling hung hot water heating and only units. These units are in fair condition.

<u>Alternate:</u>

Provide (2) new ceiling hung hot water air handling unit (AHU) with DX cooling and ventilation air. The DX cooling would be provided by a grade mounted condensing unit connected to the indoor unit via refrigerant piping. The indoor unit would be equipped with hot gas reheat and an energy recovery wheel. Existing roof mounted exhaust fans would be removed, the existing exhaust penetrations would be reutilized for exhaust air from the AHU. Each of the (2) AHU would be sized for 4,000 cfm and 10 Tons.

Summary of VRF units:

CU-I = 20 Ton (Mitsubishi Model PURY-HP240 with Hyper-heat or similar)

VRF-A = 1 Ton x 4 (Mitsubishi Model PLFY-EP12NEMU, Ceiling cassette or similar)

VRF-B = 1.5 Ton x 2 (Mitsubishi Model PLFY-EP18NEMU, Ceiling cassette or similar)

VRF-C = 0.5 Ton x 5(Mitsubishi Model PMFY-P06NBMU, I-way Ceiling cassette or similar)

CU-2 = 24 Ton (Mitsubishi Model PURY-HP288 with Hyper-heat or similar)

VRF-C = 0.5 Ton x 8 (Mitsubishi Model PMFY-P06NBMU, I-way Ceiling cassette or similar)

VRF-E = 2 Ton x 12(Mitsubishi Model PLFY-EP24NEMU, Ceiling cassette or similar)

<u>Kitchen:</u>

<u>Base Bid:</u>

Maintain existing hoods and associated exhaust fan. The hoods and associated fans are in good condition.

Alternate:

The kitchen will be provided with exhaust fans connected to any grease hoods. New exhaust fan will be grease rated and size for 2,000 cfm. The quantity of fans depends on the new kitchen layout.

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Hydronic Heating System Based on Architect's Option 2 (Town utilizes part of the building):

Disconnect/remove existing heating systems from existing boilers. Provide two (2) new propane fired wall mounted high efficiency condensing boilers. Provide zone pumps to each of the three different occupancy types. Each boiler will be approximately 328 MBH Lochinvar Model WHB399L or similar.

Alternate I: Maintain existing fin tube radiators, adjust as need to accommodate new walls. This would include maintaining existing hot water piping distribution and also providing new hot water piping to new (3) Dedicated Outdoor Air Systems (DOAS).

Alternate 2: Remove all existing radiators and provide new radiators sized for low temperature. New radiators to be provided at perimeter locations. This would also include new heating hot water piping connected to the new boilers and (3) DOAS.

Alternate 3: Remove all existing radiators and provide new ceiling mounted radiant panel heaters. This would also include new heating hot water piping connected to the new boilers and (3) DOAS.

Heating And Cooling System: Based on Architect's Option 2 (Town utilizes part of the building):

Provide heating and cooling via Variable Refrigerant Flow (VRF) system. This would consist of roof or grade mounted air cooled condensing units. A combination of ducted and ductless indoor evaporator units. Provide (3) three roof mounted DOAS to provide outdoor/ventilation air. DOAS unit will consist of energy recovery, hot water coil, cooling coil and hot gas reheat. Each unit will be dedicated to a zone, Town Offices, Senior Center and Community Shared Space. Provide Building Management System (BMS) to control heating, cooling and ventilation systems.

<u>Town Hall:</u>

CU-3 = 6 Ton (Mitsubishi Model PURY-HP72 with Hyper-heat or similar) VRF-A = 1 Ton x 1 (Mitsubishi Model PLFY-EP12NEMU, Ceiling cassette or similar)

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VRF-B = 1.5 Ton x 3 (Mitsubishi Model PLFY-EP18NEMU, Ceiling cassette or similar) VRF-C = 0.5 Ton x 2(Mitsubishi Model PMFY-P06NBMU, 1-way Ceiling cassette or similar)

DOAS/ERV-1 = 500 cfm (Renewaire Model DN2RT or similar)

Senior Center:

CU-4 = 12 Ton (Mitsubishi Model PURY-HP144 with Hyper-heat or similar)

VRF-A = 1 Ton x 1 (Mitsubishi Model PLFY-EP12NEMU, Ceiling cassette or similar)

VRF-C = 0.5 Ton x I (Mitsubishi Model PMFY-P06NBMU, I-way Ceiling cassette or similar)

VRF-D = 3.0 Ton x 3(Mitsubishi Model PLFY-EP36NEMU, Ceiling cassette or similar)

DOAS/ERV-2= 1,055 cfm (Renewaire Model DN2RT or similar)

Community Shared Space:

CU-5 = 12 Ton (Mitsubishi Model PURY-HP144 with Hyper-heat or similar)

VRF-A = 1 Ton x 1 (Mitsubishi Model PLFY-EP12NEMU, Ceiling cassette or similar)

VRF-D = 3 Ton x 2(Mitsubishi Model PLFY-EP36NEMU, Ceiling cassette or similar)

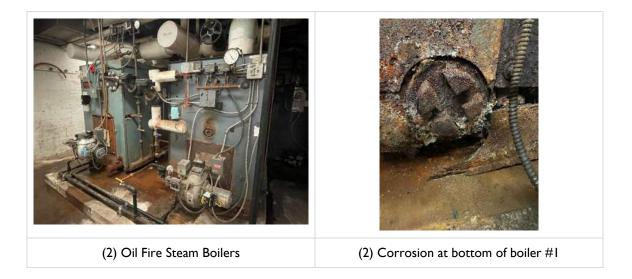
VRF-E = 2 Ton x 3(Mitsubishi Model PLFY-EP24NEMU, Ceiling cassette or similar)

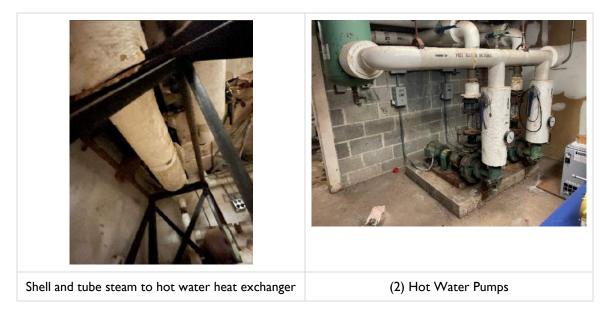
DOAS/ERV-3 = 2750 cfm (Renewaire Model DN3RT or similar)

Controls (Applies to both options):

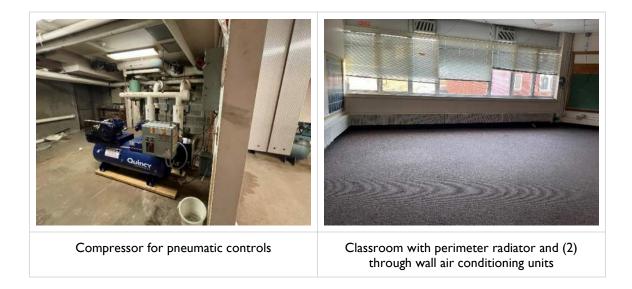
Provide Building Management System (BMS) to control all new mechanical and selected electrical systems. BMS shall be by the Temperature control vendor approved by the owner. System shall include web based graphics to display and monitor/control systems. System shall also have off site alarming capabilities.

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Air Handling Units at Gym

AHU with energy recovery on roof of West Wing

Electrical

Electrical Service and Distribution

The building is fed by an 800Amp, 208/120V, 3-phase, 4-wire electrical service supplied by a pad mounted transformer located near the main entrance to the building.

The main electrical equipment is located in the basement, main electrical room. The main electrical room contains the main service electric meter, main service disconnect, and distribution panel equipment feeding the

building's various mechanical, lighting, and receptacle loads. No permanent or temporary generator equipment connections exist in the building.

The service entrance equipment is manufactured by General Electric, consisting of two switchboards (main switch and distribution) and is from the 1989 building renovation. This equipment is located adjacent to the boiler room in the basement. The switchboard is in working condition but is nearing the end of its useful life and replacement parts could be difficult to obtain if needed in the future. The switchboard does not have phase failure or surge protective components, leaving it vulnerable to lightning and utility phase loss conditions.

<u>Lighting</u>

Lighting in the building varies by location and mainly consists of surface linear wraparound fixtures in utility spaces and recessed lensed 2'x4' in corridors, bathrooms, classrooms, or academic spaces. The lighting largely appears to be original to the building construction. The multi-purpose space contains stage lighting consisting of fixtures secured to a rigging system or recessed when located in flat ceiling areas. The lamp type or style vary by location (CFL or T8 fluorescent). The stage lighting appears to be using incandescent lamps. Controls consist primarily of single pole toggle switches.

Occupancy sensors were observed in the interior corridors and in a few office/administrative spaces. Exterior building mounted lighting is controlled via timeclock and photocell.

Emergency lighting consists of stand-alone self-contained battery units. Corridor coverage was observed to be deficient. No emergency lighting was observed at the points of egress.

Fire Alarm

The building currently operates using a conventional horn-strobe fire alarm system by Silent Knight. The fire alarm control panel is located in the main electrical room and is connected to redundant copper lines. Cabinets from an older Simplex Fire Alarm system remain in place and are now used as a splice box for connection to the Silent Knight system loops. Fire Alarm remote annunciators were observed next to the main panel, and in the main entrance vestibule.

The building is protected by smoke detectors and manual pull stations at the points of egress. Visual and/or sound notification appliances were

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observed throughout the building; however, not all required areas were covered as required by code.

Telecommunications & Security

The telecommunications building entrance facility is located in the main electrical room. Fiber enters this space via an underground conduit. Structured cabling throughout the building consists of analog phone cabling run to telephone handsets, and data CAT5e cabling originating from telecommunication rack equipment located in the basement to outlets in classrooms and offices. No wireless access points were observed in the building. Quantity of data drops in typical office or classroom spaces will not meet the need of new end users.

An Iwatsu telephone system PDX block exists in the main electrical room, but telephone handsets have since been removed from the building. This system is outdated and in need of replacement.

The facility contains a public address and bell system manufactured by Bogen, which appears to have been installed during the 1989 building renovation. This system consists of wall mounted speakers and bells installed in corridors. It is unclear if this system is operational. The headend equipment is located in the office work area, next to the main office.

Video Surveillance consists of POE cameras mounted on the exterior perimeter and the main entrance. The cameras are connected to a Network Video Recorder (NVR) and monitoring station located in the main office.

Recommendations:

Based on Architect's Option I (Town utilizes all of the building)

Electrical Service and Distribution:

Provide a new electrical service to support all the planned new HVAC, lighting, receptacle, and equipment loads for this option.

The new proposed electrical service shall be sized at 2000A, 277/480V, 3-phase, 4-wire and shall include new distribution equipment to support all loads as required by the new intended use, and latest applicable version of the International Energy Conservation Code (IECC 2021).

The existing electrical service previously serving the building shall be removed in its entirety. The removal shall include electrical distribution, branch panels (serving lighting, receptacle, and mechanical equipment

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

loads), feeders, and connections to existing equipment. The kitchen panel shall remain for future reconnection to the new electrical distribution. Circuits associated with exterior and site lighting shall be relocated to a new lighting panel.

New proposed electrical equipment shall include the following (located in a new electrical room in the basement area):

- Main Distribution Switchboard 2000 Amp, 277/480V, 3-phase, 4-wire. The main distribution switchboard shall include:
 - Integral SPD and ground fault protection.
 - Main Service Disconnect (MCB) Section.
 - Load Distribution Section with electronic or thermal magnetic circuit breaker devices.
 - Submetering equipment for all load classifications.
- Mechanical Distribution Panel 800 Amp, 277/480V, 3-phase, 4wire, 42-space. This panelboard will serve all new CU, DOAS and ERV equipment.
- Mechanical Distribution Panels (2) 150Amp, 120/208V, 3-phase 4-wire, 42-space, fed via a step-down transformer from upper 277/480V distribution. The panelboard will serve all new indoor VRF, fans, and other mechanical equipment loads.
- Lighting Distribution Panel 200 Amp, 120/208V, 3-phase, 4-wire, 42-space.
- General Receptacle Distribution Panel 800 Amp, 120/208V, 3phase, 4-wire, 42-space, fed via a step-down transformer from upper 277/480V distribution.

Branch panels shall be provided to support all spaces as described in Options I. Electrical panels shall be provided as follows:

- General Receptacle
 - (4) 200 Amp, I 20/208V, 3-phase, 4-wire, 42-spaces, with integral SPD protection. These panels will be located

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centralized to support the Tax Collector wing of the building, upper and lower levels.

- (1) 100 Amp, 120/208V, 3-phase, 4-wire, 42-spaces. This panel will be dedicated to the warming kitchen.
- (1) 100 Amp, 120/208V, 3-phase, 4-wire, 42-spaces. This panel will be dedicated to the stage and community room areas.
- (1) 50 Amp, 120/208V, 3-phase, 4-wire, 42-spaces. This panel will be dedicated to new IT loads.
- Lighting
 - (4) 50 Amp, 277/480V, 3-phase, 4-wire, 30-spaces. These panels will be located centralized to support the State Trooper, Computer Lab, and Tax Collector wing of the building, upper and lower levels.
 - (1) 50 Amp, 120/208V, 3-phase, 4-wire, 30-spaces. This panel will be dedicated to the stage and community room areas.

Lighting fixtures and controls:

Provide new lighting fixtures and energy code compliant lighting controls shall be for all spaces associated with Options 1.

Lighting fixtures shall be high-efficiency LED. Lighting controls shall consist of low voltage intelligent room controllers, programmable wall switches, and vacancy/occupancy sensors. The lighting control system shall also provide receptacle control as required by the energy code (IECC) in required areas.

Fire Alarm:

Provide a new addressable fire alarm system to support the spaces associated with Options I. The new system shall consist of a new addressable control panel, devices, and connection to redundant copper lines for external communication. The existing fire alarm system to be removed in its entirety.

Telecommunication and Security:

Provide a new telecommunication distribution system for the spaces associated with Option I. The new backbone system shall include new rack

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4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

equipment, data wiring (Category 5e minimum / Category 6 recommended) to new network drops for computer or wireless equipment. The new telecommunication distribution system shall also be arranged to support a VoIP system.

Provide a small-scale access control system consisting of card reader coverage for the main entrance to a minimum.

Provide new door contacts for all exterior doors located at grade. Similarly, provide intrusion detection motion sensors in all rooms located at grade fitted with exterior windows.

Provide video surveillance cameras to cover the perimeter of the associated building area and entrances.

Based on Architect's Option 2 (Town utilizes part of the building)

Electrical Service and Distribution:

Provide a new electrical service to support all the planned new HVAC, lighting, receptacle, and equipment loads for this option.

The new proposed electrical service shall be sized at 800A, 120/208V, 3phase, 4-wire and shall include new distribution equipment to support all loads as required by the latest applicable version of the International Energy Conservation Code (IECC 2021). Providing a new service will allow the addition of surge protection and prevent future interruptions due to overload or existing equipment failure if tied to the existing service serving the remaining portion of the building.

Existing electrical infrastructure and connections to equipment located in the areas planned for Options 2 shall be removed back to the panelboard or equipment of origin.

The new proposed electrical equipment shall include the following (located in a new electrical room in the basement area):

- Main Distribution Panelboard 800 Amp, 120/208V, 3-phase, 4wire. The main distribution panel shall be provided with Integral SPD protection.
- Mechanical Distribution Panel 400 Amp, 120/208V, 3-phase, 4wire, 42-space. This panelboard will serve all new CU, DOAS and VRF equipment.

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4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis

- Lighting Distribution Panel 100 Amp, 120/208V, 3-phase, 4-wire, 42-space.
- General Receptacle Distribution Panel 400 Amp, 120/208V, 3-phase, 4-wire, 42-space.

Branch panels shall be provided to support all spaces as described in Options 2. Electrical panels shall be provided as follows:

- General Receptacle
 - (2) 150 Amp, 120/208V, 3-phase, 4-wire, 42-spaces, with integral SPD protection.
 - (1) 100 Amp, 120/208V, 3-phase, 4-wire, 42-spaces. This panel will be dedicated to the warming kitchen.
 - (1) 100 Amp, 120/208V, 3-phase, 4-wire, 42-spaces. This panel will be dedicated to the stage and community room areas.
- Lighting
 - o (2) 50 Amp, 120/208V, 3-phase, 4-wire, 30-spaces.
 - (1) 50 Amp, 120/208V, 3-phase, 4-wire, 30-spaces. This panel will be dedicated to the stage and community room areas.

Lighting fixtures and controls:

Provide new lighting fixtures and energy code compliant lighting controls shall be for all spaces associated with Options 2.

Lighting fixtures shall be high-efficiency LED. Lighting controls shall consist of low voltage intelligent room controllers, programmable wall switches, and vacancy/occupancy sensors. The lighting control system shall also provide receptacle control as required by the energy code (IECC) in required areas.

Fire Alarm:

Provide a new addressable fire alarm system to support the spaces associated with Options 2. The new system shall consist of a new addressable control panel, devices, and connection to redundant copper lines for external communication. The existing Silent Knight System to

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remain and shall be reconfigured to continue to provide protection to the rest of the building.

Telecommunication and Security:

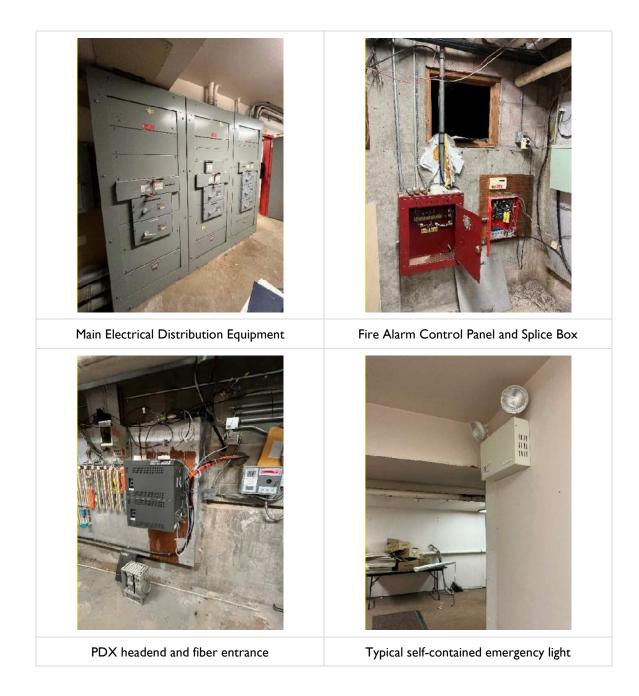
Provide a new telecommunication distribution system for the spaces associated with Options 2. The new backbone system shall include new rack equipment, data wiring (Category 5e minimum / Category 6 recommended) to new network drops for computer or wireless equipment. The new telecommunication distribution system shall also be arranged to support a VoIP system.

Provide a small-scale access control system consisting of card reader coverage for the main entrance to a minimum.

Provide new door contacts for all exterior doors located at grade. Similarly, provide intrusion detection motion sensors in all rooms located at grade fitted with exterior windows.

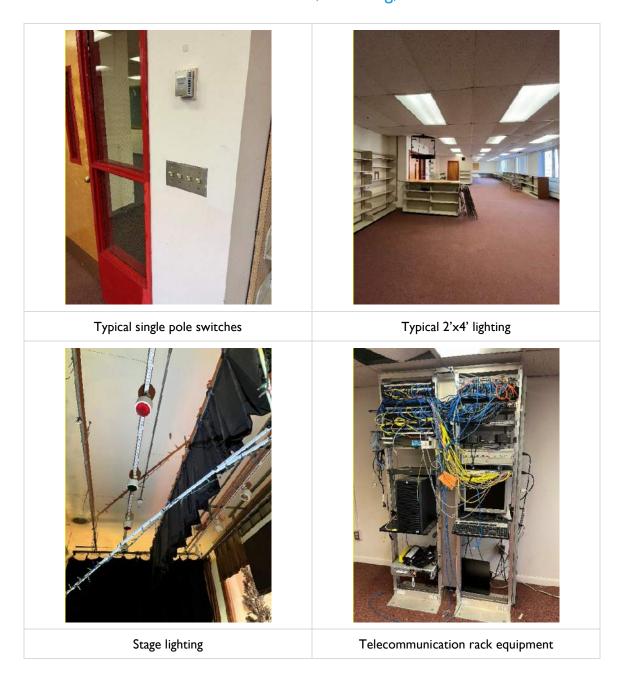
Provide video surveillance cameras to cover the perimeter of the associated building area and entrances.

4.0 Existing Facility Survey Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis



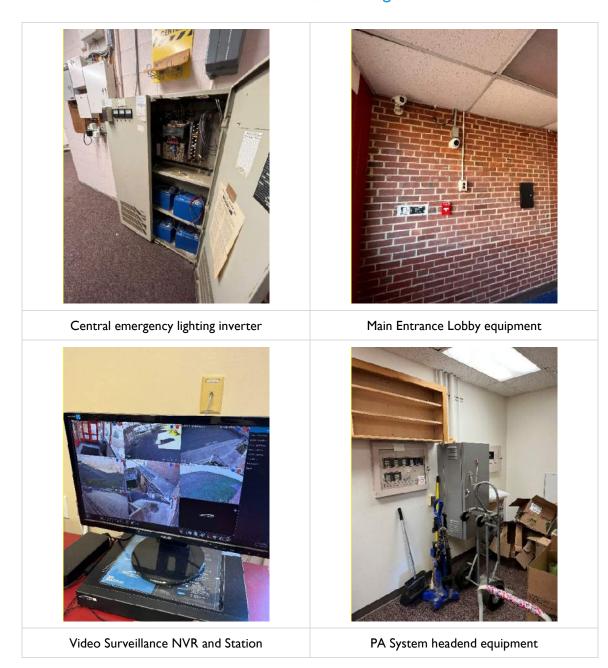
4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis



4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.2 Mechanical, Plumbing, and Electrical Conditions Analysis



Recommendations

Summary – Applies to Option 1 & Option 2

- I. Remove existing buried oil storage tank and associated trim.
- 2. Remove and replace existing oil-fired domestic water heater and oil-fired boilers with new propane-fired equipment. Provide propane storage tanks at exterior of building to supply new water heater and new boiler(s).
- 3. Replace existing domestic water booster pump.
- 4. Remove and replace existing domestic cold, hot, and hot water recirculation piping. Piping shall be Type L copper with fiberglass insulation.
- 5. Remove and replace existing plumbing fixtures with low-flow water saving plumbing fixtures.
- 6. Remove existing boiler plant.
- 7. Provide new boiler plant including pumps and associated equipment.
- 8. Provide (3) Dedicated Outdoor Air systems, Variable Refrigerant Flow heat pumps and (3) condensing units for heating and cooling.
- 9. Provide Building Management System to control mechanical systems.
- 10. Provide a new electrical service to support all MEP systems associated with Options I or 2.
- 11. Provide new electrical distribution equipment to support the planned electrical loads.
- 12. Provide new high-efficiency LED lighting fixtures and controls.
- 13. Provide a new addressable fire alarm system.
- 14. Provide a new telecommunication backbone and distribution system to support the planned spaces.

Structural Observations and Recommendations:

At the request of Antinozzi Associates, the staff of Michael Horton Associates, Inc. (MHAI) visited the above referenced site to perform a cursory structural conditions analysis of the existing facility. MHAI's observations were limited due to in-place finishes. Our inspection was comprised of visual observations from finished grade at the exterior and the various floor levels at the interior. No survey work, destructive testing or exploratory work was performed as part of this investigation.

This two-story structure was constructed in 1948, with subsequent additions in 1953 and 1989. The structure is supported on a cast-in-place concrete foundation throughout. The foundation walls are exposed in the lower-level boiler room and storage room which were observed to be in good condition except for minor shrinkage cracks and exposed horizontal rebar at one location. Please refer to Photograph Exhibits #1 and #2. The slabs on grade also appear to be in good condition with no major cracking.

The exterior walls of the original structure consist of brick veneer with wood stud backup. The interior partitions consist of wood studs with plaster or gypsum finishes. The exterior walls of the additions consist of a brick veneer with masonry backup. The classroom and corridor walls primarily consist of concrete masonry units (CMU). Some of the corridor walls consisted of glazed blocks. Minor vertical cracks were observed in both the CMU and glazed block walls. Please refer to Photograph Exhibit #3. The Gymnasium walls consist of exposed CMU. Control joints were visible on the interior face of the gym walls. Please refer to Photograph Exhibit #4. Vertical and horizontal cracks were observed at various locations in the gym. The stairwell walls all appeared to be in good condition. Please refer to Photograph Exhibit #5.

As previously stated, the existing framing at the various levels is concealed by in place finishes and could not be observed. Some cracking of the finishes was observed; however, the cracks appear to be cosmetic in nature and do not represent a structural concern at this time. Should the cracking continue or appear in additional areas, further investigation will be required. Water damage was also visible in the finishes in some locations. It could not be determined if the water leaks were active or have been repaired. The exposed steel roof framing within the Gymnasium appeared to be in good condition. Steel frames at the roof drains were missing in some locations and should be installed to support the roof deck.

The exterior of the building consists of brick veneer with exposed concrete foundation walls. Localized foundation cracking was observed at the new addition of the building. Please refer to Photograph Exhibit #6. There were many locations where brick was noted as cracked or having the face popped. These conditions are typically due to moisture infiltration and should be addressed to avoid further deterioration of the brick. The following are a few of the deficiencies that were noted: The brick windowsill at the main entrance had several chipped or cracked bricks. Please refer to Photograph Exhibit #7. The brick chimney is missing mortar and requires repointing. The exterior fascia board was missing in the rear of the building. Please refer to Photograph Exhibit #8. Brick was cracked or popped in several of the building corners. Please refer to Photograph Exhibit 9-13. There was a large separation crack where two different additions meet. Please refer to Photograph Exhibit #14 There should be a caulked joint at this intersection to allow for differential movement of the buildings.

The main entrance consists of a brick archway with an adjoining canopy. The archway brick has cracked and several of the face shells have popped due to moisture entrapped in the brick and freezing conditions. Please refer to Photograph Exhibit 15 & 16 The steel lintels are also corroded at the archway. Please refer to Photograph Exhibit 17 & 18 The canopy steel columns have severe corrosion at the bases and at connections. Please refer to Photograph Exhibit 19& 20.

The site retaining wall has spalling concrete with water mitigation through the wall which would indicate that the wall requires waterproofing or drainage behind it. Please refer to Photograph Exhibit 21 & 22. Cracking was also observed where the steel railings are embedded into the top of the wall. Please refer to Photograph Exhibit #23 The site concrete, including stairs, had several cracks and was in poor condition. Please refer to Photograph Exhibit 24 & 25. There was organic material growing on the stairs and walls which were mainly in shaded areas.

This concludes our structural conditions analysis of this facility.

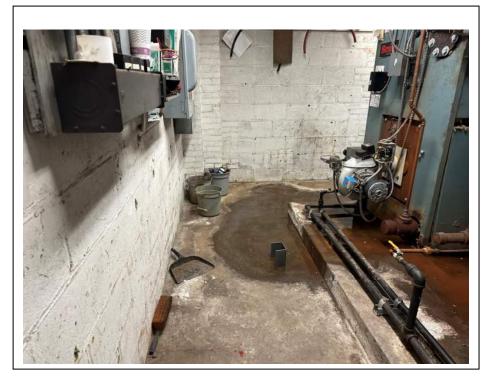


Exhibit 1



Exhibit 2

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Exhibit 3



Exhibit 4

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Exhibit 5



Exhibit 6



Exhibit 7



Exhibit 8

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.3 Structural Conditions Analysis



Exhibit 9



Exhibit 10

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.3 Structural Conditions Analysis



Exhibit 11



Exhibit 12



Exhibit 13



Exhibit 14



Exhibit 15



Exhibit 16

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Exhibit 17



Exhibit 18

4.6.3: Page 11 of 15



Exhibit 19



Exhibit 20

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4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.3 Structural Conditions Analysis



Exhibit 21



Exhibit 22

4.0 Existing Facility Survey Six Town Buildings Facility Assessment

Six Town Buildings Facility Assessment HADDAM ELEMENTARY SCHOOL 4.6.3 Structural Conditions Analysis



Exhibit 23



Exhibit 24

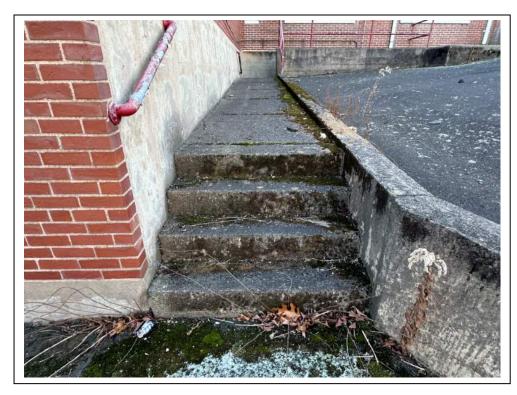


Exhibit 25

5.0 Program Assessment Needs

Programmatic Survey

A series of interviews and walk through's took place with all departments within the existing Town Hall, Department of Social Services, and the Senior Center. The departments in the Town Hall included: Tax Collector, Finance, Town Clerk, Assessor, First Selectman, and Land Use. Within the Town Hall we walked through the existing Fire Marshal's space, and Custodial and shared storage spaces, however, did not meet with anyone for these spaces. The Youth & Family and Recreation Departments corresponded by email for space needs. These interviews were in a questionnaire format that included:

- Description of Services
- Number of staff per department
- Type of space needed (office or cubicle, etc.), as well as support rooms or spaces
- HVAC, plumbing, and electrical requirements
- Service counters or fixed millwork requirements
- Furnishing types that would be appropriate and functional
- Appropriate desired finish types for the space

The interviews were translated into a Program Assessment Need report per space. Based on the space needs a square foot analysis was then created to determine how many square feet each department requires. The Report and the Square Foot Analysis Spreadsheet were submitted for review and approval to Town of Haddam.

The Haddam Elementary School, located at 272 Saybrook Road, was studied to include relocating the Senior Center, Registrar of Voters, and the Community Center. A series of test fits was generated and presented to Town for review and comment. These plans can be found in Section 6, Conceptual Studies.

DEPT: Tax Collector – Kristin Battistoni



Description of Services:

Public walk up to transaction window, with no access to inside of dept space. Public queue's in common space in lobby. Lock box on exterior, with security monitoring.

Employees (Office or Cubicle or Service Counter):

2 person department, currently in a shared office for 2, that works fine.

Support Rooms:

Access to a safe within space or adjacent, legally required, and use daily. Ideal adjacent dept would be Town Clerk. Needs to be adjacent to Assessors Dept. Need a fireproof file room.

MEP:

Panic buttons at desks.

Millwork:

Include a base cabinet with mail drawers in service counter, 6"h minimum. Service counter is walk up for 1 person at a time.

Finishes:

Likes chalkboard paint on an accent wall.

Technology:

Security cameras, 1 printer, 1 small copier on a stand.

FF&E:

2 desks, 1 storage cabinet, open shelving for binders, 1 Two Drawer Lateral, plus drawers in desks. Uses a cash counter machine, not at counter.

Other Notes:

Needs clear signage on exterior to get into building and each department. Commented on need for more toilets.

HADDAM SPACE UTILIZATION STUDY

Program Assessment Needs

DEPT: Finance – Linda Pinette; Ann Harter



Description of Services: Do not meet with any public. Handle confidential materials (payroll).

Employees (Office or Cubicle or Service Counter):

Dept of 2, both in private offices.

<u>Support Rooms:</u> Conference room for 4. Currently adjacent to First Selectman.

MEP:

Millwork: None

Finishes:

Technology: 1 printer each office.

FF&E:

Linda has (13) drawers within file cabinets; L shaped desk with overhead storage; shelves for binders. Ann has U shaped desk, and a meeting table (better if in a shared room between them).



DEPT: Town Clerk – Dawn Tarbetsky; Robert (Bobby) Siegrist

Description of Services:

Meets with public via walk up service counter. Busiest during June-July, queueing occurs.

Employees (Office or Cubicle or Service Counter):

Department of two, in a shared office space, each with own desk.

Support Rooms:

Vault Room, Mailroom (supports all departments), Registrar of Voters (which are now in a different building); Assessor & Land Use (share copier for maps).

MEP:

Panic button.

Millwork:

Include new pay station with drawers. Open shelves on private side. Public stations for (2), 1 standing, 1 sitting (ADA). Currently a lot of built in shelving for Minutes, but should move to vault.

Finishes:

Technology:

1 floor copier; 5 printers; 1 Election Station; Stamper; Scanners; Registers at desks.

FF&E:

Currently 2 tall bookcases, 16 drawers within files.

Other Notes:

Need space for coats, office supplies.

Mailroom consists of: 1 storage cabinet, 1 three drawer lateral, mailbox slots, copier, counter, shredder, 1 sit down workstation (not required), postal machine, base cabinets for storage, and the room supports everyone.

Vault consists of: 4+ flat files stacked for maps, 3 storage cabinets, 4 four drawer verticals, 3 industrial shelves, Vitals cabinet, whole wall of map storage binders, 2 tables with chairs for 6 at each.

Cage adjacent to Vault consists of: 17+ four drawer verticals, storage cabinet, map shelving.

DEPT: Assessor



Description of Services:

Meets with public via walk up service counter. Speaks with seniors often about private financial matters, need privacy.

Employees (Office or Cubicle or Service Counter): Department of two, both in private offices.

<u>Support Rooms:</u> Vault Room, Mailroom, Tax Collector & Town Clerk.

MEP: Panic button

Millwork:

Service counter with gate separating public/private. Need cash locked drawer. Need 1 public station for property searches, currently not working.

Finishes:

Technology:

tbd

FF&E:

(4) four drawer fireproof verticals. (1) four drawer vertical. (1) Veterans card file drawer. (1) storage cabinet. (1) tall bookcase.

Other Notes:

ANTINOZZI ASSOCIATES ARCHITECTURE + INTERIORS

HADDAM SPACE UTILIZATION STUDY

Program Assessment Needs

DEPT: First Selectman – Robert (Bob) and JoAnn



Description of Services:

Sees public for mostly pistol permits, or misc complaints or issues. Public do not access space, they approach a half door which is locked, and stand in hallway.

Employees (Office or Cubicle or Service Counter):

Department of two, Bob and JoAnn. Bob in private office, not visible from common area. JoAnn visible and is adjacent to Bob's space.

<u>Support Rooms:</u> Central office or Finance.

MEP: Panic button.

Millwork:

Finishes:

Technology:

(1) Printer, (1) small safe for Pistol Permit \$)

FF&E:

(2) Four drawer laterals, Robert (Bob) has U shaped desk, 2 small bookcases, 1 conference/meeting table for six, 1 tall bookcase



DEPT: Land Use - Diane (Building Admin); Rachael (Land Use)

Description of Services:

Waiting area for (2). Public access to retrieve files or drop off building applications.

Employees (Office or Cubicle or Service Counter):

Department of 5-6: Zoning Enforcement, Building Official, Town Planner, Building Admin., Land Use

Support Rooms:

Conference room.

MEP: Panic button.

Millwork:

Service counter for 2-3. Private side has application slots, open shelving. Main area has spacesaver sliding file storage on track system, 5 doubles (6'w x 2'deep), 2 singles at ends.

Finishes:

Technology: One floor copier, one map plotter, printer.

FF&E:

Diane (Bldg Admin) has 1 desk, 1 four drawer lateral, 1 low cabinet. Rachael (Land Use) has 1 desk. Town Planner has desk, table for 4, 2 bookcases Building Official has desk, 2 bookcases, hanging file rack Zoning has desk, small refrigerator Common area has 1 three drawer lateral, 1 bookcase, spacesavers.

DEPT: Fire Marshall



Description of Services:

Employees (Office or Cubicle or Service Counter):

Support Rooms: Building Department.

MEP:

Millwork:

Finishes:

Technology: 1 printer.

FF&E: Desk, bookshelf, table, low cabinet.



DEPT: Storage & Custodial



Description of Services: Cold Storage Room; Dead Storage; Custodial office; Custodial Storage; Electrical

Employees (Office or Cubicle or Service Counter): Custodial office for (2) in shared space.

Support Rooms:

MEP:

Millwork:

Finishes:

Technology:

FF&E:

Cold Storage – (22) four drawer verticals, (1) Veterans vertical; (4) four drawer laterals Dead Storage – (4) industrial shelves; (11) four drawer verticals

DEPT: Social Services - Becky



Description of Services:

Currently at 11 Jail Hill Rd. Consists of Food Bank, Clothing Bank, Energy Assistance. Independent separate building works for privacy issues.

Employees (Office or Cubicle or Service Counter):

Department of (2). Becky in office, future part time support staff.

Support Rooms:

Main area displays toiletries and snacks. Food Bank Room. Clothing Bank 2nd floor. Storage Room. Meeting space on 2nd floor.

MEP:

Panic buttons.

Millwork: Sink & base cabinet in Food Pantry.

Finishes:

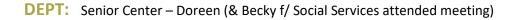
<u>Technology:</u> Hydroponic lettuce machine. Printer in Becky's office.

FF&E:

Food Bank Appliances – double freezer, Single freezer, 1 top/bottom refrigerator/freezer.
Food Pantry – 3 cabinets, 3 industrial shelves, sink & base cabinets
Becky's Office – desk, seating for (3)
Storage Room – (6) 4'w deep shelving for canned goods; Personal Care closet; closet for tables & chairs
Clothing Store – (7) clothing racks, (2) tables, (2) shelf racks

Other Notes:

Access to 2nd floor requires going outside and around to back entrance.





Description of Services:

Open M, T, Th from 10:00am-2:00pm. Serves lunch at 12:00. Activities include mobility, yoga, weights, balls, social with round tables, crafts, games, music.

Employees (Office or Cubicle or Service Counter):

<u>Support Rooms:</u> Warming kitchen, Storage Room. A meeting room/space would be nice.

MEP:

Need sink for craft projects.

Millwork:

Finishes:

Technology: Large TV, projection screen, printer.

FF&E:

Dorian's office has desk w/ space for security monitors. Multi purpose room has (6) round tables, (2) bookcases, (1) game shelf, (1) TV on stand w/ storage below. Piano.

DEPT: Youth & Family – Jane Baird



Description of Services:

Services for families who are struggling financially, prevention programming and supporting the emotional wellness of our communities. Confidentiality is critical. Some special events include Holiday Giving Program.

Employees (Office or Cubicle or Service Counter):

4 Private Offices – Exec. Director, Clinical Counselor, Prevention Coordinator, Project Coordinator Open Office – Adminstrative/Bookeeper Meeting Room – dedicated or shared Storage Room - large

Support Rooms:

Meeting Room – dedicated or shared Storage Room - large

MEP:

Millwork:

Finishes:

Technology:

FF&E:

DEPT: Recreation Department – Robyne Brennan

CONVECTICS

Description of Services:

Employees (Office or Cubicle or Service Counter): 3 Offices – Director, Supervisor, Administrative Assistant One office make size of a double for (2) workstations.

Support Rooms: Copy/Work Room Meeting Room – could be combined w/ work room Storage Room - Large

MEP:

Millwork:

Finishes:

Technology:

<u>FF&E:</u>

Other Notes:

ANTINOZZI ASSOCIATES ARCHITECTURE + INTERIORS



PROGRAM AREAS	QTY.	SF	TOTAL SF	COMMENTS				
Tax Collector								
Office for (2)	1	250	250					
Service Counter for (2)	1	225	225					
Shared Storage	1	50	50	Safe, storage cabinet, file				
Total, Tax Collector			525					
Finance								
Office	2	150	300					
Meeting Room for 4	1	150	150					
Total, Finance		100	450					
Town Clerk			100					
Office for (2)	1	250	250					
Service Counter for (2)	1	230	230					
Public Search Stations for (2)	1	150	150	1 standing 1 sitting				
Open work area	1	100	100	1 standing, 1 sitting copier, election station, several printers				
Total, Town Clerk	1	100	725	copier, election station, several printers				
			125					
Assessor Office for (1)	2	125	250					
Service Counter for (2)	1	225	230					
Public Search Station for (1)	1	75	75					
Open work area	1	100	100	shared files & storage cabinet				
Total, Assessor		100	650					
First Selectman								
Office - First Selectman	1	300	300	Executive office with meeting table for 6				
Cubicle workstation	1	75	75					
Service Counter for (2)	1	225	225	Security high priority				
Total, First Selectman			600					
Land Use								
Waiting	1	75	75	Seating for (2)				
Service Counter for (3)	1	300	300					
Office for (1)	6	125	750	Land Use, Planner, Bldg Off, Zoning, Admin				
Open work area	1	100	375	Spacesaver track system, table for 4, plotter				
Total, Land Use	-	100	1,500					
Fire Marshall			,					
Office	1	125	125	with plan table for spread out				
Total, Fire Marshall		120	125					
Building Support								
Mechanical Rooms	1	225	225					
IT Closets (MDF / IDF)	1	100	100					
Electrical Rooms	1	100	100					
Restrooms	2	200	400	Mens & Womens Rooms Ganged				
Cage Storage	1	275	275	Shared storage				
Cold Storage Room	1	325	325	holds file cabinets				
Dead Storage Room	1	275	275	hold files and industrial shelving				
Seasonal Storage Closet	1	50	50	Decorations, overflow recycling & compost bins				
Custodial	1	125	125	1 office for (2)				
MailRoom	1	100	100					
Vault	1	400	400					
Total, Building Support			2,375					
Multi Purpose Spaces (Brainard Hall)								
Multi Purpose Meeting Room	1	2,000	2,000					
Warming Kitchen	1	200	200					
Storage	1	500	500					
Mechanical Rooms	1	225	225					



IT Closets (MDF / IDF)	1	100	100	
Electrical Rooms	1	100	100	
Custodial Closet	1	50	50	
Restrooms	2	200	400	(1) Mana (1) Wamana Cangad
Fotal, Brainard Hall		200	3,575	(1) Mens, (1) Womens Ganged
Building Summary	_		3,375	
Net SF Program Total			10 525	
		4.00/	10,525	
Factor for Circulation Gross SF Total, Town Hall & Brainard Hall	a	40%	4,210 14,735	
Gross SF Total, Town Hall & Brainard Hall			14,735	
Social Services				
Office for (1)	2	125	250	2nd office part time employee
Food Bank/Pantry	1	450	450	includes appliances, sink
Clothing Store	1	430 600	600	includes appliances, sink includes clothing racks, tables
-				includes clothing facks, tables
Meeting Room	1	175	175	
Dry Storage Mechanical Rooms	1	275	275	deep adjustable shelving for canned goods
	1	225	225	
IT Closets (MDF / IDF)	1	100	100	
Electrical Rooms	1	100	100	
Custodial Closet	1	50	50	
Restrooms	3	75	225	(1) Mens, (1) Womens, (1) Staff
Total, Social Services			2,450	
Building Summary				1
Net SF Program Total			2,450	
Factor for Circulation	a	40%	980	
Gross SF Total, Social Services			3,430	
Senior Center Warming Kitchen		000	000	
Multi Purpose Room	1	200	200	Mahilita wara maishta halla aasial/hurah
Director Office		2,000	2,000	Mobility, yoga, weights, balls, social/lunch
Director Onice			105	
Martin and Drama	1	125	125	
Mechanical Rooms	1	225	225	
IT Closets (MDF / IDF)	1	225 100	225 100	
IT Closets (MDF / IDF) Electrical Rooms	1 1 1	225 100 100	225 100 100	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet	1 1 1 1	225 100 100 50	225 100 100 50	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms	1 1 1 1 3	225 100 100 50 75	225 100 100 50 225	(1) Mens, (1) Womens, (1) Staff
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room	1 1 1 1 3 1	225 100 100 50 75 400	225 100 100 50 225 400	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room	1 1 1 1 3	225 100 100 50 75	225 100 100 50 225 400 200	(1) Mens, (1) Womens, (1) Staff Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center	1 1 1 1 3 1	225 100 100 50 75 400	225 100 100 50 225 400	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center Building Summary	1 1 1 1 3 1	225 100 100 50 75 400	225 100 100 50 225 400 200 3,625	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Fotal, Senior Center Building Summary Net SF Program Total	1 1 1 3 1 1 1	225 100 50 75 400 200	225 100 100 50 225 400 200 3,625 3,625	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center Building Summary Net SF Program Total Factor for Circulation	1 1 1 1 3 1	225 100 100 50 75 400	225 100 100 50 225 400 200 3,625 3,625 1,450	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Fotal, Senior Center Building Summary Net SF Program Total Factor for Circulation	1 1 1 3 1 1 1	225 100 50 75 400 200	225 100 100 50 225 400 200 3,625 3,625	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center Suilding Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center	1 1 1 3 1 1 1	225 100 50 75 400 200	225 100 100 50 225 400 200 3,625 3,625 1,450	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Cotal, Senior Center Building Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center	1 1 1 3 1 1 1 	225 100 50 75 400 200 40%	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Potal, Senior Center Building Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center Youth & Family Office for (1)	1 1 1 3 1 1 1	225 100 50 75 400 200 40%	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075	Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Yotal, Senior Center Building Summary Net SF Program Total Factor for Circulation Aross SF Total, Senior Center Youth & Family Office for (1) Cubicle Workstation	1 1 1 3 1 1 1 1 	225 100 50 75 400 200 40% 125 75	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 500 75	
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Yotal, Senior Center Building Summary Net SF Program Total Factor for Circulation Aross SF Total, Senior Center Youth & Family Office for (1) Cubicle Workstation Meeting Room	1 1 1 3 1 1 1 1 	225 100 50 75 400 200 40% 40% 125 75 200	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 500 75 200	Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center Suilding Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center Youth & Family Office for (1) Cubicle Workstation Meeting Room Mechanical Rooms	1 1 1 3 1 1 1 4 4 1 1 1 1	225 100 50 75 400 200 200 40% 125 75 200 225	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 500 75 200 225	Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Cotal, Senior Center Suilding Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center Couth & Family Office for (1) Cubicle Workstation Meeting Room Mechanical Rooms IT Closets (MDF / IDF)	1 1 1 3 1 1 1 1	225 100 50 75 400 200 40% 40% 125 75 200 225 100	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 500 75 200 225 100	Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Total, Senior Center Building Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center Youth & Family Office for (1) Cubicle Workstation Meeting Room Mechanical Rooms IT Closets (MDF / IDF) Electrical Rooms	1 1 1 3 1 1 1 1	225 100 50 75 400 200 40% 40% 125 75 200 225 100 100	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 5,075 500 75 200 225 100 100	Could be shared
IT Closets (MDF / IDF) Electrical Rooms Custodial Closet Restrooms Storage Room Meeting Room Cotal, Senior Center Suilding Summary Net SF Program Total Factor for Circulation Gross SF Total, Senior Center Couth & Family Office for (1) Cubicle Workstation Meeting Room Mechanical Rooms IT Closets (MDF / IDF)	1 1 1 3 1 1 1 1	225 100 50 75 400 200 40% 40% 125 75 200 225 100	225 100 100 50 225 400 200 3,625 3,625 1,450 5,075 500 75 200 225 100	Could be shared



Storage Room	1	400	400	Large
Meeting Room	1	200	200	Could be shared
Total, Youth & Family			2,250	
Building Summary				
Net SF Program Total			2,250	
Factor for Circulation	a	40%	900	
Gross SF Total, Youth & Family			3,150	
Parks & Recreation Department				
Office for (1)	2	125	250	
Office for (2)	1	250	250	
Copy / Work Room / Storage	1	250	250	
Mechanical Rooms	1	225	225	
IT Closets (MDF / IDF)	1	100	100	
Electrical Rooms	1	100	100	
Custodial Closet	1	50	50	
Restrooms	2	75	150	(1) Mens, (1) Womens
Total, Parks & Recreation	1		1,375	
Building Summary				
Net SF Program Total			1,375	
Factor for Circulation	a	40%	550	
Gross SF Total, Parks & Recreation			1,925	
Community Center				
Multi Purpose Room	1	2,000	2,000	
Warming Kitchen	1	200	200	
Storage	1	500	500	
Mechanical Rooms	1	225	225	
IT Closets (MDF / IDF)	1	100	100	
Electrical Rooms	1	100	100	
Custodial Closet	1	50	50	
Restrooms	2	200	400	(1) Mens, (1) Womens Ganged
Total, Community Center			3,575	
Building Summary	-			
Net SF Program Total			3,575	
Factor for Circulation	a	40%	1,430	
Gross SF Total, Community Center			5,005	
State Trooper				
Office for (1)	1	500	500	
Gross SF Total, State Trooper			500	
Registrar of Voters	-	1.000	1.000	
Office for (1)	1	1,000	1,000	
Gross SF Total, Registrar of Voters			1,000	
Buildings & Spaces Combined Summary			14 505	
Gross SF Total, Town Hall & Brainard Hall			14,735	
Gross SF Total, Social Services			3,430	
Gross SF Total, Senior Center	-		5,075	
Gross SF Total, Youth & Family	-		3,150	
Gross SF Total, Recreation			1,925	



Gross SF Total, Community Center	5,005	
Gross SF Total, State Trooper	500	
Gross SF Total, Registrar of Voters	1,000	
Gross SF Total	34,820	





Conceptual Studies

In an effort to adapt and re-use the former Haddam Elementary School (HES), the Assessment Team was directed to provide the Town of Haddam conceptual plans to consider the relocation of the Town departments into the former school. Utilizing information gathered from existing documents, the Facility Assessments, and the Programmatic Survey, two schematic options were developed.

<u>OPTION I</u>

Option I would utilize a portion of the former school for Town purposes, and the other portion would be used for purposes other than Town related functions.

The one-story west wing would be occupied by several relocated Town services. These departments include:

- Registrar of Voters
- State Trooper
- Senior Center
- Community Center

The Registrar of Voters and the State Trooper would have their own entrance and would be independent and not accessible from the Community and Senior Center. The Community and Senior Center would be able to make use of the existing Multi-Purpose Room within the school, and the former HES classrooms would be redesigned to offer spaces for computer labs, exercise equipment, and a lounge.

The two-story east wing would be operated and developed by a source other than the Town for a function yet to be determined.

The following plans for Option I, although not showing a proposed layout for the east wing (to be developed by others), illustrates the area it would occupy, alongside the new Town offices.

The project cost estimate for this option is an order of magnitude of \$9.5 million.

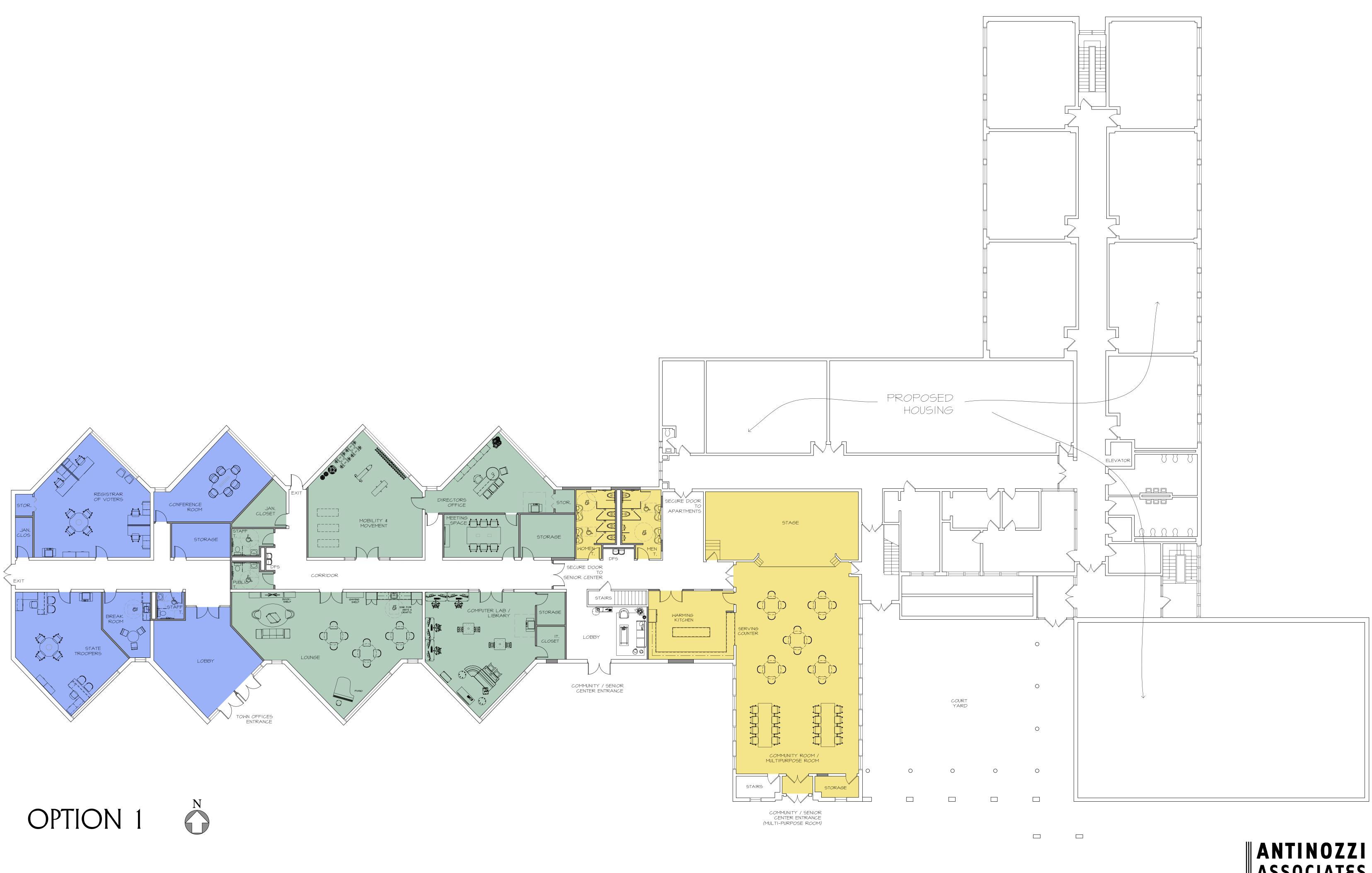
OPTION 2

Option 2 would utilize the same allocation of Town departments in the west wing, however, would also make use of the 2-story east wing for other Town Departments. Along with the previously mentioned functions, the following would be moved to the former school:

- First Selectman
- Tax Collector
- Assessor
- Town Clerk
- Fire Marshall
- Finance
- HK Recreation Department
- HK Youth & Family
- Land Use
- Social Services

The following plans for Option 2 make use of the same west wing plan from Option I and illustrate the approximate areas required for the additional departments to be relocated into the east wing. These areas were calculated with the use of the Programmatic Surveys and will provide sufficient space for staff and furnishings.

The project cost estimate for this option is an order of magnitude of approximately \$31,970,000.



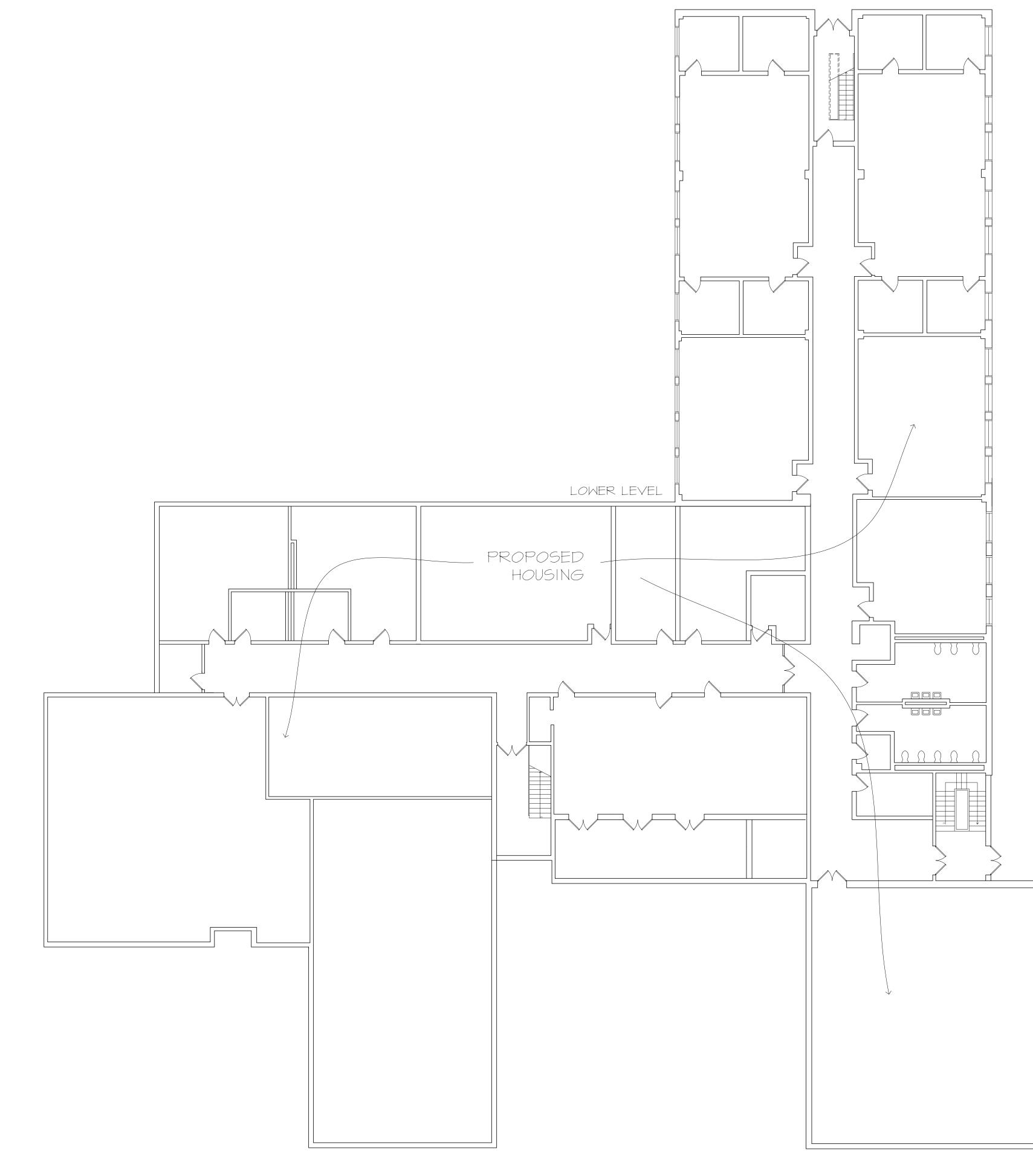
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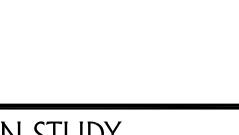
ASSOCIATES ARCHITECTURE + INTERIORS

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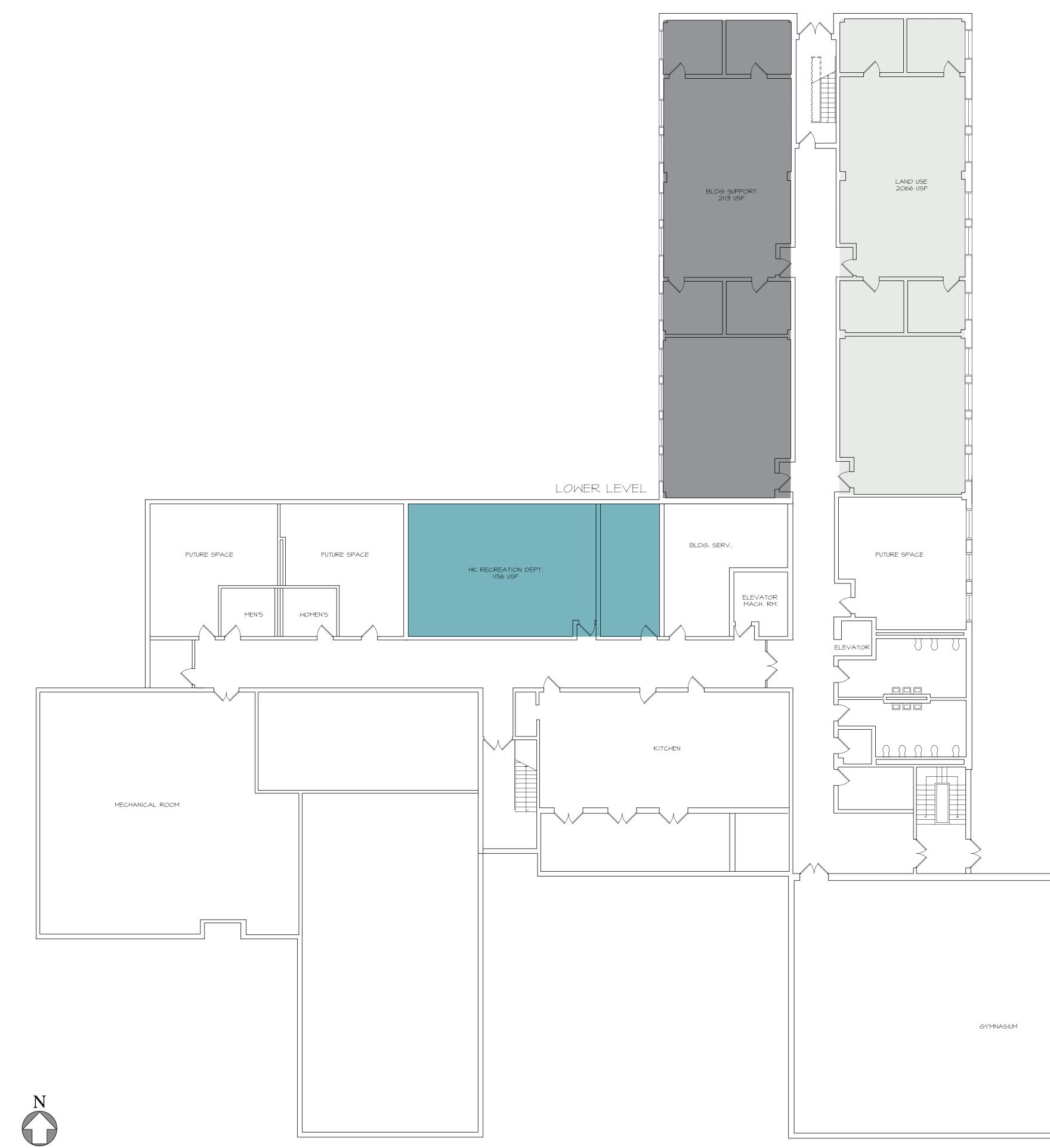
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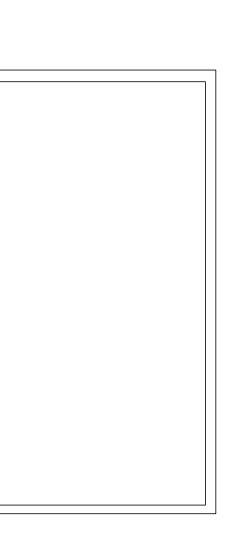
#23040

ARCHITECTURE

+ INTERIORS







#23040



7.0 Cost Estimate

Haddam Town Hall Building - Facilities Assessment upgrades

30 Field Park Drive - Concept Estimate

Date: Monday, March 25, 2024







DATE:

3/25/2024

Basis Of Estimate

Basis of Estimate

30 Field Park Drive - Concept Estimate

Introduction

PACS has been engaged by Antinozzi Associates Architects to provide aCost Estimate.

- Estimate is based on the Town of Haddam Facility Asessment Report draft for review dated January 31, 2024.
 - Estimate quantities are based on the Haddam Town Hall Building Quantities provided by Antinozzi Associates (attached).

Quantities and Methodology

- The cost estimate is based on the measurement of quantities wherever possible.
- Where actual measurements are not used, parametric measurements are used in conjunction with previous but similar project benchmarks.
- PACS uses a wide range of standard measurement and quantifying methods that are common practice in the construction industry today.

Basis of Pricing

- a) The construction costs shown in this estimate represent the fair market value and are not intended to be a prediction of the lowest bid.
- b) The costs include: labor, material, equipment and the subcontractors overhead and profit. (Subcontractor's Mark Up)
- c) The cost of labor is based on local Prevailing wage rates for all trades.
- d) The construction rates used are based in "today's dollar" and an escalation allowance is included in the Estimate summary.
- e) Our pricing assumes competitive bidding on all elements of the construction work, assuming a minimum of three competitive bidders for all general contractors, subcontractors, materials and
- f) It is typical in our experience that if fewer bids are received or solicited, prices can be expected to be higher due to lack of competition.
- g) The subcontractor's mark ups include their own overhead, including the cost in the field as well as profit.
- h) PACS has priced this taking into account current market conditions, competition between trades and the cost fluctuations in the construction industry.
- i) Estimate assumes no Phasing required..
- j) Proposal is based on construction being performed on regular hours.

30 Field Park Drive - Concept Estimate

Basis Of Estimate

Design and Pricing Contingency

A Design and Pricing Contingency is used as a budgetary tool that allows for scope and detail not defined during the design stage. As the design becomes more defined as the project passes through the design stages, the Design and Pricing Contingency decreases as more scope and detail is now being shown in the documents and is therefore reflected in the cost estimate as actual trade cost. The Design and Pricing Contingency is reduced to zero at 100% Bid Documents.

Escalation

As outlined above the estimate is calculated using rates that are "today's dollar" and reflect the cost of the project as if it was to bid on the date of issue. Due to construction projects having long design phases and long construction schedules, its is imperative to project the construction cost further ahead into the future to the point at which it is bid out. It is common practice to escalate the cost estimate to the mid point of construction to accommodate for economic inflation. This percentage accounts for this increase.

Construction Contingency

PACS advise that a Construction Contingency is carried for unforeseen project conditions and field changes. Typically we see this in the range of 3% to 5% dependent on the scope of the project.

Probable Cost

It is important for the Owner and Design team to carefully review this cost estimate including all line item descriptions, clarifications, exclusions, unit prices, assumptions, allowances, mark ups and contingencies to ensure the estimate reflects the scope of the project.

PACS has produced the cost estimate based on the widely practiced methods of cost estimating and aims to reflect the fair market value of the construction project. Our aim is to be not the highest or the lowest in the range of bids but to use our experience and expertise in the construction industry to provide the client with a degree of confidence that the project will be close to our calculated estimate.

Exclusions

This cost estimate excludes the following:

- Premiums for working in inaccessible or partially accessible spaces during construction
- Surplus Stock and Spares
- Premiums for restrictive and uncompetitive bidding
- Premiums for non-standard work times
- Work beyond the project limits
- CT Sales Tax Assumes Exempt
- Wellpoints Assumes open trench pumping only
- Rock or Unsuitable soils remediation
- Hazardous, Contaminated or Polluted soils
- Hazardous materials, abatement or associated restoration within the buildings
- AV Equipment / Technology Budget
- Utility Costs Electric, Gas, Water (assumes by Owner)

Risks to the Cost Estimate

Items that may affect the cost estimate, the list as follows but not limited:

- Changes to the design subsequent to the issue of the documents stated above which this estimate is based on
- Non Competitive Bid restrictions and the sole sourcing of products/materials from specific vendors
- Restrictive technical specifications that produce and non competitive environment
- Changes to the project schedule that delay the project and therefore have impact on cost
- Incomplete and poorly coordinated documentation
- Access restrictions, unidentified out of hours work policies and phasing restrictions
- Restrictive technical specifications that produce a non competitive environment
- Unforeseen and unknown Site conditions



DATE:

3/25/2024

30 F

HVAC

Electrical

Sitework

23 00 00

26 00 00

33 00 00

TOTAL DIRECT COST

Haddam Town Hall Building - Facilities Assessment upgrades

Park Drive -	Concept Estimate				The Assessed		25/2024
		Base Esti	mate		Additic	n	
Trade		Cost	Co	ost / SF	Cost	Co	st / SF
01 50 00	Temporary Facilities and Controls	\$ 42,675	\$	7.50	\$ -	\$	-
02 41 19	Selective Demolition	\$ 25,498	\$	4.48	\$ -	\$	-
03 30 00	Cast-In-Place Concrete	\$ -	\$	-	\$ -	\$	-
04 20 00	Unit Masonry	\$ 40,500	\$	7.12	\$ -	\$	-
05 50 00	Metal Fabrications	\$ -	\$	-	\$ -	\$	-
06 10 00	Rough Carpentry	\$ -	\$	-	\$ -	\$	-
06 20 00	Finish Carpentry	\$ 34,056	\$	5.99	\$ -	\$	-
07 50 00	Roofing	\$ 123,870	\$	21.77	\$ -	\$	-
07 92 00	Joint Sealants	\$ 2,500	\$	0.44	\$ -	\$	-
08 10 00	Hollow Metal Doors & Frames	\$ 87,510	\$	15.38	\$ -	\$	-
08 50 00	Windows	\$ 59,925	\$	10.53	\$ -	\$	-
09 51 00	Acoustical Ceiling	\$ -	\$	-	\$ -	\$	-
09 65 00	Resilient Flooring	\$ -	\$	-	\$ -	\$	-
09 91 00	Painting & Wallcoverings	\$ 9,280	\$	1.63	\$ -	\$	-
10 28 00	Toilet Accessories	\$ 1,400	\$	0.25	\$ -	\$	-
13 00 00	Special Construction (4,100 sf addition)	\$ -	\$	-	\$ 2,255,000	\$	550.00
22 00 00	Plumbing	\$ 22,318	\$	3.92	\$ -	\$	-



\$

\$

\$

\$

\$

-

\$ 33.29

\$583.29

-

-\$ -

136,500

2,391,500

29,250

41,055

30,800

562,111

\$ 5.14

\$ 7.22

\$

5.41

\$98.79

\$

\$

\$

\$

Haddam Town Hall Building - Facilities Assessment upgrades

30 Field Park Drive - Concept Estimate

PACSE

ark Drive - Concept Estimate							3/25/2024		
		Base Estimate			Addition				
Trade			Cost	Cost / SF		Cost	Cost / SF		
TOTAL DIRECT COST (FROM PREVIOUS PAGE)		\$	562,111	\$98.79	\$	2,391,500	\$583.29		
Design & Estimating Contingency	10.00%	\$	56,211		\$	239,150			
Escalation -	6.00%	\$	37,099		\$	157,839			
General Conditions- (3 mos @ 25,000 / Month)	\$ 75000	\$	75,000		\$	100,000			
Preconstruction - Assumes None		\$	-		\$	-			
GC Insurances	1.25%	\$	9,130		\$	36,106			
GC Surety Bond	0.78%	\$	5,112		\$	21,750			
GC Fee	5.00%	\$	32,771		\$	139,424			
TOTAL CONSTRUCTION COST (DIRECT & INDIRECT COSTS)		\$	777,435	\$136.63	\$	3,085,770	\$752.63		
Bonding & Legal fees to Town	Excluded	E	xcluded			Excluded			
A&E Fees / Professional Services	7.00%	\$	54,420		\$	216,004			
Commissioning agent	Excluded	E	xcluded			Excluded			
Owners Representative	Excluded	E	xcluded		Excluded				
Builders Risk Insurance - Town	Excluded	E	xcluded			Excluded			
Testing & Inspections	Excluded	E	xcluded			Excluded			
Building Permit - Assumes waived	Excluded	E	xcluded			Excluded			
Moving & Relocation costs	Excluded	E	xcluded			Excluded			
FF&E (Furniture Fixtures and Equipment)	Excluded	E	xcluded			Excluded			
State Permit 0.26%	Excluded	E	xcluded		I	Excluded			
A/V Systems - Assumes in FF&E	Excluded	E	xcluded		I	Excluded			
Artwork - By Owner	Excluded	E	xcluded		I	Excluded			
Utility Connection fees allowance	Excluded	E	xcluded			Excluded			
Owners Contingency:	5.00%	\$	38,872		\$	154,288			
TOTAL CONSTRUCTION & SOFT COSTS		\$	870,728	\$153.03	\$	3,456,062	\$842.94		

30 Field Park Drive - Concept Estimate

Estimate Detail



	Element / Description	Quantity	Unit	-	nit Rate (\$)		ension (\$)	Jul	ototal (\$)
01 50 00	Temporary Facilities and Controls	E 000	05	¢	7.50	¢	40.075		
	Temporary Site Services - GC Bid (minimal) Subtotal Temporary Facilities and Controls	5,690	SF	\$	7.50	\$	42,675	s	42,6
								-	,.
02 11 00	Contaminated Soil Excavation & Disposal								
	Assumes not required Subtotal Contaminated Soil Excavation & Disposal	< 1	Exclude	a >				\$	
02 12 00	Transportation/Disposal of Contaminated Materials								
	Assumes not required Subtotal Transportation/Disposal of Contaminated Materials	< 1	Exclude	u >				\$	
02 80 00	Hazardous Abatement Assumes not required	~ [Exclude	4 5					
	Subtotal Hazardous Abatement	~ [Linne	u -				\$	
02 41 16	Building Demolition Assumes not required	< 1	Exclude	4 5					
	Subtotal Building Demolition	~ 1	LACIUUE	u -				\$	
02 41 19	Selective Demolition Remove exterior doors-prep for new frame installation	31	EA	\$	500.00	\$	15,500		
	Demo existing flooring and base		Exclude		000.00	Ψ	10,000		
	Demo existing kitchen cabinets and appliances		Exclude						
	Demo existing gyp ceilings for replacement	675	SF	\$	4.65	\$	3,139		
	Demo existing plumbing fixtures - prep for replacement	8	EA	\$	75.00		600		
	Demo existing lighting - prep for replacement	5,690	SF	\$	1.10	\$	6,259	•	
	Subtotal Selective Demolition							\$	25,4
03 30 00	Cast-In-Place Concrete								
	None identified	< [Exclude	d >				\$	
	Subtotal Cast-In-Place Concrete							ş	
04 20 00	Unit Masonry								
	Envelope Masonry - Brick repoint & repair 10%	1,800	SF	\$	22.50	¢	40,500		
		1,800	SF	\$	22.50	Þ	40,500	\$	40,5
	Subtotal Unit Masonry							Þ	40,:
05 50 00	Metal Fabrications								
	None identified	< [Exclude	d >					
	Subtotal Metal Fabrications							\$	
06 10 00	Rough Carpentry								
	None identified	< [Exclude	d >				\$	
	Subtotal Rough Carpentry							ې ب	
06 20 00	Finish Carpentry								
	Exterior Finish Carpentry & Trims - installed Exterior door replacements - Exterior trims	40	LF	\$	17.50	¢	700		
	Exterior Window replacements - Exterior trims	573	LF	\$	22.00		12,606		
	Exterior clapboard siding remove and replace	900	SF	\$	22.50	\$	20,250		
	Interior Finish Carpentry & Millwork								
	Exterior door replacements -Interior trims Base cabinet with Solid surface top	40	LF ot includ	\$ ed >	12.50	\$	500		
	Plam uppers		ot includ						
	Subtotal Finish Carpentry							\$	34,0
07 50 00	Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield	5,780	SF	\$	14.50	\$	83,810		
	Rubber - Iow slope remove and reinstall - small area	288	SF	\$	35.00		10,080		
	Gutters Remove & replace Leaders - Remove & replace	360	LF	\$ \$	35.00		12,600		
	Leaders - Kemove & replace Splash blocks -	168 10	LF EA	\$ \$	35.00 325.00		5,880 3,250		
	Metal roof campy	30	SF	\$	275.00		8,250		
			ot includ	ed >					
	Snow guards -	< no						\$	123,8
	Snow guards - Subtotal Roofing	< 10							
17 02 00	Subtotal Roofing	< 10							
)7 92 00			LS	\$	2,500.00	\$	2,500		
17 92 00	Subtotal Roofing Joint Sealants			\$	2,500.00	\$	2,500	\$	2,
	Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames			\$	2,500.00	\$		\$	2,
07 92 00 08 10 00	Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom	1	LS	\$	5,000.00	\$	5,000	\$	2,
	Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement	1	LS EA EA	\$ \$	5,000.00 3,500.00	\$	5,000 3,500	\$	2,5
	Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom	1	LS	\$	5,000.00	\$ \$ \$	5,000	\$	2,5
	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Install frame Install Door leaf	1 1 1 29	LS EA EA EA	\$ \$	5,000.00 3,500.00 2,500.00	\$ \$ \$	5,000 3,500 72,500		
	Subtotal Roofing Joint Sealants Caulking & Sealants Exterior metal door, frame and hardware replacement 8x6 with transom Exterior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Install frame	1 1 1 29 31	LS EA EA EA EA	\$ \$ \$	5,000.00 3,500.00 2,500.00 120.00	\$ \$ \$	5,000 3,500 72,500 3,720	\$	
08 10 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement Install frame Install frame Install Door leaf Subtotal Hollow Metal / Wood Doors & Frames Windows	1 1 29 31 31	LS EA EA EA EA	\$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00	\$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790		
08 10 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Install frame Install Door leaf Subtotal Hollow Metal / Wood Doors & Frames Windows Remove & Replace with single hung energy efficient windows	1 1 29 31 31 515	LS EA EA EA EA SF	\$ \$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00 95.00	\$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790 48,925		2,! 87,!
	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement Install frame Install frame Install Door leaf Subtotal Hollow Metal / Wood Doors & Frames Windows	1 1 29 31 31	LS EA EA EA EA	\$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00	\$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790		
)8 10 00)8 50 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Install Door leaf Install Door leaf Subtotal Hollow Metal / Wood Doors & Frames Windows Remove & Replace with single hung energy efficient windows Exterior Storefront - remove & replace Subtotal Windows	1 1 29 31 31 515	LS EA EA EA EA SF	\$ \$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00 95.00	\$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790 48,925	\$	87,
8 10 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Caulking & Sealants Courrent of the sealants Cour	1 1 29 31 31 31	LS EA EA EA EA SF	\$ \$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00 95.00	\$ \$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790 48,925	\$	87,i 59,i
8 10 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement & with transom Exterior metal door, frame and hardware replacement Install frame Install frame Install Door leaf Subtotal Hollow Metal / Wood Doors & Frames Windows Remove & Replace with single hung energy efficient windows Exterior Storefront - remove & replace Subtotal Windows Gypsum Board Assemblies	1 1 29 31 31 31 515 100	LS EA EA EA EA EA SF SF	\$ \$ \$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00 95.00 110.00	\$ \$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790 48,925 11,000	\$	87,i 59,i
8 10 00 8 50 00 9 21 00	Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Caulking & Sealants Courrent of the sealants Cour	1 1 29 31 31 31 515 100	LS EA EA EA EA EA SF SF	\$ \$ \$ \$ \$ \$	5,000.00 3,500.00 2,500.00 120.00 90.00 95.00 110.00	\$ \$ \$ \$ \$ \$	5,000 3,500 72,500 3,720 2,790 48,925 11,000	\$	87,

30 Field Park Drive - Concept Estimate

Estimate Detail



09 65 00	Element / Description	Quantity	Unit	U	nit Rate (\$)	EX	tension (\$)	ວແ	btotal (\$
			ot inclu	dod >					
	Vinyl Sheet Flooring - installed Resilient Base 4" vinyl		ot inclu						
	Floor Prep - Resilient		ot inclu						
	Subtotal Resilient Flooring							\$	
9 91 00	Deinting 9 Wellowaringo								
9 91 00	Painting & Wallcoverings Painting - walls & Ceilings - repair work only & Touch up allowance	1	LS	\$	5.000.00	\$	5,000		
	Painting Exterior trims and siding - Repair work only	900	SF	\$	2.00	\$	1,800		
	Paint Doors and Frames (new)	31	EA	\$	80.00		2,480		
	Vinyl Wallcoverings	< E	Exclude	ed >					
	Digital Wallcoverings	< E	Exclude	ed >					
	Subtotal Painting & Wallcoverings							\$	9
0 28 00									
	TR Accessories - PT Dispenser TR Accessories - Grab Bars		ot inclu ot inclu						
	TR Accessories - Grab Bars		EA		295.00	¢	885		
	TR Accessories - Electric Hand Dryers		ot inclu		295.00	ψ	000		
	TR Accessories - Soap dispensers		ot inclu						
	TR Accessories - Mirrors		ot inclu						
	TR Accessories - Coat hooks		ot inclu						
	TR Accessories - Custodial	1	EA	\$	395.00	\$	395		
	TP Dispensers		ot inclu						
	Baby changing stations		ot inclu						
	Accessory Installation Subtotal Toilet Accessories	4	EA	\$	30.00	\$	120	\$	1
	Subiotal Follet ACCessories							-	
1 30 00									
	Refrigerator - ADA		ot inclu						
	Microwave - ADA Range with oven - ADA		ot inclue ot inclue						
	Dishwasher ADA		ot inclu						
	Residential range hood		ot inclu						
	Subtotal Residential Appliances							\$	
00 00	Fire Protection								
00 00	Fire Protection	< 6	Exclude	ed >					
	Subtotal Fire Protection							\$	
2 00 00	Plumbing								
~ 00 00	Water heaer replacement 20 Gal	1	EA	\$	3,250.00	\$	3,250		
	Video induct representative call and a second	650	LS	\$	7.25		4,713		
			EA	\$	1,595.00		1,595		
	Fixture - Sink and faucet Kitchen Fixture - Sink and faucet - TR wall hung vitreous	1	EA	\$	1,595.00		3,300		
	Fixture - Sink and laucet - TR wall hung videous Fixture - Custodial mop sink	3	EA	\$	1,100.00		1,275	-	
	Fixture - Water Closet	3		\$	1,675.00		5,025		
	Fixture Rough-in	8		\$	395.00		3,160		
	Subtotal Plumbing					-		\$	22
3 00 00	HVAC								
	Controls and Instrumentation - Provide programable t-stats foor existing equipment	1	LS	\$	2,500.00	\$	2,500		
	Provide energy recovery unit for existing AHU's	1	LS	\$	25,000.00		25,000		
	Surface mounted fan in kitchen	1		\$	1,750.00		1,750		
	Subtotal HVAC							\$	29
6 00 00	Electrical								
	Lighting and Branch			-		-			
	Lighting Light Fixture 1x4 Surface	77	EA	\$	275.00	\$	21,175		
	Light Fixture Surface mounted - Exterior	12	EA	\$	395.00		4,740		
	Light Fixture - Exterior @ Building - Pendent	1		\$	795.00		795		
	Site light poles @ Parking	< E	Exclude						
	Lighting Device Branch					-			
	Lighting controls - local			xisting ?					
	Occupancy Sensor - retrfit to existing control	25	EA	\$	550.00	\$	13,750		
	City lighting controller / shade		Exclude			-			
	Site lighting controller / clock		umes E Exclude	xisting :	>				
	Lighting branch wiring -		- XUIUDE	- De		-			
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance						595		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power	< [¢	505.00	¢			
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance			\$	595.00	\$	292		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance <u>Power</u> Circuit and sswitch for kitchen fan Safety & Security	< [\$	595.00	\$	595		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance <u>Power</u> Circuit and sswitch for kitchen fan Safety & Security Security Access Control &CCTV	1	EA			\$	595		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and switch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance	< E	EA es not	require	d >	\$	292		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance <u>Power</u> Circuit and switch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices	< E	EA es not	require	d > d >	\$	292		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and switch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance	<pre>< { classical control of the second control of the second</pre>	EA es not es not es not	required	d > d > d >	\$	292		
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance <u>Power</u> Circuit and sswitch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , Jicenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	< E	EA es not es not es not	required	d > d > d >	\$			
	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance <u>Power</u> Circuit and sswitch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , Jicenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	<pre>< { classical control of the second control of the second</pre>	EA es not es not es not	required	d > d > d >	\$	665	\$	41
3 00 00	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and sswitch for kitchen fan Safety & Security Security Access Control & CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable	<pre>< { classical control of the second control of the second</pre>	EA es not es not es not	required	d > d > d >	\$		\$	41
3 00 00	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and sswitch for kitchen fan Safety & Security Security Access Control & ACCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Subtotal Electrical	<pre>< { classical control of the second control of the second</pre>	EA es not es not es not	required	d > d > d >		26,600	\$	41
3 00 00	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and switch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework	< E	EA es not es not es not SF	required required required	d > d > d >	\$		\$	41
3 00 00	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and switch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework Repair, repoint Stone retaining wall Repair bluestone treads & risers	< 6 1 < Assum < Assum < Assum < Assum < Assum < 280 280	EA es not es not es not s not SF SF	required required required required s \$	d > d > d > d > 95.00	\$	26,600	\$	41
3 00 00	Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Circuit and sswitch for kitchen fan Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control dorroughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework Repair, repoint Stone retaining wall	< 4 1 (Assum (Assum) (EA es not es not es not SF	required required required required s \$ \$ \$ ded >	d > d > d > d > 95.00	\$	26,600	\$	41

Haddam Town Hall Building	5690± SF GROSS - 30 Field Park Drive						
	Description	Quantity Unit					
<u>Site</u>							
Repair, Repoint Stone Retaining Wall	10'H	280 SF					
Repair Stone Step With Bluestone Treads	3 Risers, 3 Treads 4'W	28 SF					
Exterior							
Asphalt shingle roof	30 year asphalt shingles	5780 SF					
Gutters		360 LF					
Downspouts		12					
Splash block		10					
Metal roof Canopy		30 SF					
Exterior Storefront	10'h x 10w	1					
Exterior door 3 panel W/transom	8'h x 6'w	1					
exterior door 6 panel	7' x 3' w	1					
Exterior HC Storefront	5'w x 7'H Energy Efficient Single Hung W/Grid	1					
Lower Windows	3'w x4'H Energy Efficient Single Hung W/Grid	7					
Upper Windows	3'w x6'H Energy Efficient Single Hung W/Grid	22					
Brick	Repoint, repair	18,000 SF					
Siding		900 SF					
Rubber low slope roof		288 SF					
Interior Doors	Wood Doors	29					
Ceiling	Patch Gyp. BD as needed	672 SF					
Plumbing		2					
Faucets		3					
Toilets		3					
Urinal		1					
Mop Sink	4x4 Floor mounted 19 Gallons	1 1					
Water Heater		1 650 LF					
Pipe insulation Kitchen sink	All exposed copper Piping	1					
Electrical							
New Lighting:	Throughout entire building						
2x4 Lay In Fixtures							
Exterior Fixtures	Surface Mounted	12					
Exterior Fixtures	Hanging	1					
Basement	1x4 Surface Mounted	33					
First Floor	1x4 Surface Mounted	44					
Vacancy Sensors		25					
Programable thermostat		4					
Fan	Surface Mounted Kitchen fan	1					
Mechanical							
Energy Recovery Unit		1 Unit					

Haddam Old Town Hall - Facilities Assessment upgrades

21 Field Park Drive - Concept Estimate

Date: Tuesday, March 26, 2024







DATE:

3/26/2024

Basis Of Estimate

Basis of Estimate

21 Field Park Drive - Concept Estimate

Introduction

PACS has been engaged by Antinozzi Associates Architects to provide aCost Estimate.

Estimate is based on the Town of Haddam Facility Asessment Report draft for review dated January 31, 2024: * Estimate quantities are based on the Haddam Old Town Hall Quantities provided by Antinozzi

Associates (attached).

Quantities and Methodology

- The cost estimate is based on the measurement of quantities wherever possible.
- Where actual measurements are not used, parametric measurements are used in conjunction with previous but similar project benchmarks.
- PACS uses a wide range of standard measurement and quantifying methods that are common practice in the construction industry today.

Basis of Pricing

- a) The construction costs shown in this estimate represent the fair market value and are not intended to be a prediction of the lowest bid.
- b) The costs include: labor, material, equipment and the subcontractors overhead and profit. (Subcontractor's Mark Up)
- c) The cost of labor is based on local Prevailing wage rates for all trades.
- d) The construction rates used are based in "today's dollar" and an escalation allowance is included in the Estimate summary.
- e) Our pricing assumes competitive bidding on all elements of the construction work, assuming a minimum of three competitive bidders for all general contractors, subcontractors, materials and
- f) It is typical in our experience that if fewer bids are received or solicited, prices can be expected to be higher due to lack of competition.
- g) The subcontractor's mark ups include their own overhead, including the cost in the field as well as profit.
- PACS has priced this taking into account current market conditions, competition between trades and the cost fluctuations in the construction industry.
- i) Estimate assumes no Phasing required..
- j) Proposal is based on construction being performed on regular hours.

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Design and Pricing Contingency

A Design and Pricing Contingency is used as a budgetary tool that allows for scope and detail not defined during the design stage. As the design becomes more defined as the project passes through the design stages, the Design and Pricing Contingency decreases as more scope and detail is now being shown in the documents and is therefore reflected in the cost estimate as actual trade cost. The Design and Pricing Contingency is reduced to zero at 100% Bid Documents.

Escalation

As outlined above the estimate is calculated using rates that are "today's dollar" and reflect the cost of the project as if it was to bid on the date of issue. Due to construction projects having long design phases and long construction schedules, its is imperative to project the construction cost further ahead into the future to the point at which it is bid out. It is common practice to escalate the cost estimate to the mid point of construction to accommodate for economic inflation. This percentage accounts for this increase.

Construction Contingency

PACS advise that a Construction Contingency is carried for unforeseen project conditions and field changes. Typically we see this in the range of 3% to 5% dependent on the scope of the project.

Probable Cost

It is important for the Owner and Design team to carefully review this cost estimate including all line item descriptions, clarifications, exclusions, unit prices, assumptions, allowances, mark ups and contingencies to ensure the estimate reflects the scope of the project.

PACS has produced the cost estimate based on the widely practiced methods of cost estimating and aims to reflect the fair market value of the construction project. Our aim is to be not the highest or the lowest in the range of bids but to use our experience and expertise in the construction industry to provide the client with a degree of confidence that the project will be close to our calculated estimate.

Exclusions

This cost estimate excludes the following:

- Premiums for working in inaccessible or partially accessible spaces during construction
- Surplus Stock and Spares
- Premiums for restrictive and uncompetitive bidding
- Premiums for non-standard work times
- Work beyond the project limits
- CT Sales Tax Assumes Exempt
- Wellpoints Assumes open trench pumping only
- Rock or Unsuitable soils remediation
- Hazardous, Contaminated or Polluted soils
- Hazardous materials, abatement or associated restoration within the buildings
- AV Equipment / Technology Budget
- Utility Costs Electric, Gas, Water (assumes by Owner)

Risks to the Cost Estimate

Items that may affect the cost estimate, the list as follows but not limited:

- Changes to the design subsequent to the issue of the documents stated above which this estimate is based on
- Non Competitive Bid restrictions and the sole sourcing of products/materials from specific vendors
- Restrictive technical specifications that produce and non competitive environment
- Changes to the project schedule that delay the project and therefore have impact on cost
- Incomplete and poorly coordinated documentation
- Access restrictions, unidentified out of hours work policies and phasing restrictions
- Restrictive technical specifications that produce a non competitive environment
- Unforeseen and unknown Site conditions

Sherrow.

DATE:

3/26/2024

Basis Of Estimate



		Base Esti	mate	
Trade		Cost	Cos	st / S
01 50 00	Temporary Facilities and Controls	\$ 37,620	\$	7.5
02 41 19	Selective Demolition	\$ 23,118	\$	4.6
03 30 00	Cast-In-Place Concrete	\$ -	\$	-
04 20 00	Unit Masonry	\$ 44,176	\$	8.
05 50 00	Metal Fabrications	\$ -	\$	-
06 10 00	Rough Carpentry	\$ -	\$	-
06 20 00	Finish Carpentry	\$ 47,991	\$	9.
07 50 00	Roofing	\$ 53,760	\$	10.
07 92 00	Joint Sealants	\$ 2,500	\$	0.
08 10 00	Hollow Metal Doors & Frames	\$ 44,320	\$	8.
08 50 00	Windows	\$ 89,680	\$	17.
09 51 00	Acoustical Ceiling	\$ -	\$	-
09 65 00	Resilient Flooring	\$ 21,869	\$	4.
09 91 00	Painting & Wallcoverings	\$ 14,128	\$	2.
10 28 00	Toilet Accessories	\$ 325	\$	0.
11 30 00	Residential Appliances	\$ 8,140	\$	1.
22 00 00	Plumbing	\$ 15,150	\$	3.
23 00 00	HVAC	\$ 140,840	\$	28.
26 00 00	Electrical	\$ 94,442	\$	18.
33 00 00	Sitework	\$ -	\$	-
TOTAL DIR	FOT COST	\$ 661,187	\$13	



Trade			Cost	Cost / SF
TOTAL DIRECT COST (FROM PREVIOUS PAGE)		\$	661,187	\$131.81
Design & Estimating Contingency	10.00%	\$	66,119	
Escalation -	6.00%	\$	43,638	
General Conditions- (3 mos @ 25,000 / Month)	\$ 75000	\$	75,000	
Preconstruction - Assumes None		\$	-	
GC Insurances	1.25%	\$	10,574	
GC Surety Bond	0.78%	\$	6,013	
GC Fee	5.00%	\$	38,547	
TOTAL CONSTRUCTION COST (DIRECT & INDIRECT COSTS)		\$	901,096	\$179.64
Bonding & Legal fees to Town	Excluded	E	Excluded	
A&E Fees / Professional Services	7.00%	\$	63,077	
Commissioning agent	Excluded	E	Excluded	
Owners Representative	Excluded	E	Excluded	
Builders Risk Insurance - Town	Excluded	E	Excluded	
Testing & Inspections	Excluded	E	Excluded	
Building Permit - Assumes waived	Excluded	E	Excluded	
Moving & Relocation costs	Excluded	E	Excluded	
FF&E (Furniture Fixtures and Equipment)	Excluded	E	Excluded	
State Permit 0.26%	Excluded	E	Excluded	
A/V Systems - Assumes in FF&E	Excluded	E	Excluded	
Artwork - By Owner	Excluded	E	Excluded	
Utility Connection fees allowance	Excluded	E	Excluded	
Owners Contingency:	5.00%	\$	45,055	
TOTAL CONSTRUCTION & SOFT COSTS		\$	1,009,228	\$201.20

Haddam Old Town Hall - Facilities Assessment upgrades

21 Field Park Drive - Concept Estimate



	Element / Description	Quantity	Unit	5	nit Rate (\$)		nsion (\$)	540	total (\$)
01 50 00	Temporary Facilities and Controls Temporary Site Services - GC Bid (minimal)	5,016	SF	\$	7.50	\$	37,620		
	Subtotal Temporary Facilities and Controls							\$	37,6
02 11 00	Contaminated Soil Excavation & Disposal								
	Assumes not required Subtotal Contaminated Soil Excavation & Disposal	<	Exclude	3 >				\$	-
	Subiotal Containinated Son Excavation & Disposal							•	
02 12 00	Transportation/Disposal of Contaminated Materials								
	Assumes not required Subtotal Transportation/Disposal of Contaminated Materials	<	Exclude	1>				\$	-
02 80 00	Hazardous Abatement Assumes not required	<	Exclude	3 >					
	Subtotal Hazardous Abatement							\$	-
02 41 16	Building Demolition								
02 41 10	Assumes not required	<	Exclude	d >					
	Subtotal Building Demolition							\$	
02 41 19	Selective Demolition								
	Remove exterior doors-prep for new frame installation	4		\$	500.00		2,000		
	Demo existing flooring and base Demo existing kitchen cabinets and appliances	2,508	SF LS	\$ \$	2.55 750.00		6,395 750		
	Demo existing gyp ceilings for replacement	1,786	SF	φ \$	4.65		8,305		
	Demo existing plumbing fixtures - prep for replacement	2	EA	\$	75.00		150		
	Demo existing lighting - prep for replacement	5,016	SF	\$	1.10	\$	5,518		
]	Subtotal Selective Demolition							\$	23,1
03 30 00	Cast-In-Place Concrete								
	None identified	<	Exclude	d >				\$	
	Subtotal Cast-In-Place Concrete							Ψ	
04 20 00	Unit Masonry								
	Envelope Clean and seal Stone veneer	7,280	SF	\$	5.45	\$	39.676		
	Repoint Stone window wells	24	SF	\$	125.00	\$	3,000		
	Repoint Stone steps	1	LS	\$	1,500.00	\$	1,500		
	Subtotal Unit Masonry							\$	44,1
05 50 00	Metal Fabrications								
	None identified	<	Exclude	d >					
	Subtotal Metal Fabrications							\$	-
06 10 00	Rough Carpentry								
	None identified Subtotal Rough Carpentry	<	Exclude	3 >				\$	
	ousidu Rough ou ponty								
06 20 00	Finish Carpentry Exterior Finish Carpentry & Trims - installed								
	Exterior door replacements - Exterior trims	96	LF	\$	17.50		1,680		
	Exterior Window replacements - Exterior trims	858	LF	\$	22.50	\$	19,305		
	Interirior Finish Carpentry & Millwork								
	Exterior door replacements -Interior trims	96	LF	\$	12.50	\$	1,200		
	Window replacements -Interior trims	858	LF	\$	17.00		14,586		
	Base cabinet with Solid surface top Plam uppers	16 20	LF LF	\$ \$	395.00 245.00		6,320 4,900		
	Subtotal Finish Carpentry			*		•	.,	\$	68,2
07 50 00	Desfing								
07 50 00	Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield	3,000	SF	\$	14.50	\$	43,500		
	Gutters Remove & replace	160	LF	\$ ¢	35.00		5,600		
	Leaders - Remove & replace Splash blocks -	96		\$ \$	35.00 325.00		3,360 1,300		
	Snow guards -		ot includ			•	,,		
	Subtotal Roofing							\$	53,7
07 92 00	Joint Sealants Caulking & Sealants	1	LS	\$	2,500.00	\$	2,500		
	Subtotal Joint Sealants							\$	2,
08 10 00	Hollow Metal / Wood Doors & Frames								
	Exterior metal door, frame and hardware replacement 8x6 with transom Exterior metal door, frame and hardware replacement	2		\$ \$	5,000.00 3,500.00		10,000 7,000		
	Interior wood door, frame and hardware replacement	8	EA	э \$	2,500.00		20,000		
	Provide door operator	1	EA	\$	4,800.00	\$	4,800		
	Install frame Install Door leaf	12	EA EA	\$ \$	120.00 90.00		1,440 1,080		
	Subtotal Hollow Metal / Wood Doors & Frames	.2			-0.00	•	.,500	\$	44,:
08 50 00	Windows								
	Remove & Replace with single hung energy efficient windows	944	SF	\$	95.00	\$	89,680	¢	00.4
10 24 00	Subtotal Windows							\$	89,6
09 21 00	Gypsum Board Assemblies Gyp ceiling replacements - Meeting area	1,786	SF	\$	12.95	\$	23,129		
	Subtotal Gypsum Board Assemblies	,						\$	23,1
9 51 00	Acoustical Ceiling								
0010			ot includ	od >				-	
	Ceilings - ACT 2x2 Tegular edge	< n	otinciuu	eu >					



9 65 00	Desilient Element	-		1		Ex		Sub	
	Resilient Flooring	0.500	07	¢	0.75	¢	10.000		
	Vinyl Sheet Flooring - installed	2,508	SF	\$	6.75	\$	16,929		
	Resilient Base 4" vinyl	300	SF	\$	3.45	\$	1,035		
	Antislip nosings	88	LF	\$	23.00		2,024		
	Floor Prep - Resilient	2,508	SF	\$	0.75	Φ	1,881	s	21,8
	Subtotal Resilient Flooring							\$	21,
9 91 00	Painting & Wallcoverings								
	Painting - walls & Ceilings - repair work only & Touch up allowance	1	LS	\$	5,000.00	\$	5,000		
	Painting Exterior trims and siding - Repair work only	1	LS	\$	1,500.00	\$	1,500		
	Paint Doors and Frames (new)	12	EA	\$	80.00	\$	960		
	Paint columns	2,304	SF	\$	2.65		6,106		
	Paint exterior trims	250	LF	\$	2.25		563		
	Subtotal Painting & Wallcoverings							\$	14,
0 28 00	Toilet Accessories TR Accessories - PT Dispenser	< nc	t includ	led >					
	TR Accessories - Grab Bars		t incluc						
	TR Accessories - Law Guard		EA		295.00	¢	295		
	TR Accessories - Electric Hand Dryers		t includ		233.00	ψ	235		
	TR Accessories - Soap dispensers		ot includ						
	TR Accessories - Mirrors		ot incluc						
	TR Accessories - Coat hooks		ot incluc						
	TR Accessories - Custodial		ot incluc						
	TP Dispensers		ot incluc						
	Baby changing stations		ot incluc						
	Accessory Installation	1	EA	\$	30.00	\$	30		
	Subtotal Toilet Accessories							\$	
1 30 00	Residential Appliances								
	Refrigerator - ADA	1	EA	\$	2,350.00	\$	2,350		
	Microwave - ADA	1	EA	\$	795.00		795		
	Range with oven - ADA	1	EA	\$	2,250.00		2,250		
	Dishwasher ADA	1	EA	\$	1,750.00		1,750		
	Residential range hood	1	EA	\$	995.00		995		
		1	LA	Ψ	555.00	Ψ	990	\$	8,
	Subtotal Residential Appliances							э	о,
	Fine Development								
00 00	Fire Protection		voludo	d >					
	Fire Protection -Distribution	< E	Exclude	u -				\$	
	Subtotal Fire Protection							Ф.	
2 00 00	Plumbing								
	Pipe insulation - insulate existing exposed copper piping	460	LS	\$	7.25	\$	3,335		
	Fixture - New 30 Gallon Domestic Water Heater	1	EA	\$	5,500.00		5,500		
	Fixture - Sink and faucet - TR wall hung vitreous	1	EA	\$	1,100.00		1,100		
	Fixture - Sink and faucet - 3 bay sink in Kitchen	1	EA	\$	2,750.00		2,750		
	Fixture - Water Closet				1,675.00	\$	1,675		
		1	EA	\$					
	Fixture Rough-in	2	EA EA	\$ \$	395.00		790		
								\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing							\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing							\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing					\$		\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems	2	EA	\$	395.00	\$	790 32,604	\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Celling Fan	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ 	790 32,604 750	\$	15,
3 00 00	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF	5,016	EA	\$ \$ \$	395.00	\$ 	790 32,604		
3 00 00	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Celling Fan	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ 	790 32,604 750	\$	
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ 	790 32,604 750		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ 	790 32,604 750		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ 	790 32,604 750		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00 7,500.00	\$ \$ \$ \$	790 32,604 750 107,486		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Spitt Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface	5,016	EA SF LS	\$ \$ \$	395.00 6.50 750.00	\$ \$ \$ \$	790 32,604 750		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting	2 5,016 1 14	EA SF LS TON	\$ \$ \$ \$	395.00 6.50 750.00 7,500.00	\$ \$ \$ \$	790 32,604 750 107,486		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Spitt Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface	2 5,016 1 14 14	EA SF LS TON	\$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00	\$ \$ \$ \$ \$	790 32,604 750 107,486 3,300		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting and Branch Lighting 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface - utility	2 5,016 1 14 12 6	EA SF LS TON EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00	\$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Exterior	2 5,016 1 14 14 12 6 1	EA SF LS TON EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Exterior Light Fixture - Exterior Light Fixture - Exterior Light Fixture - Replace remaining @ 1/120 SF	2 5,016 1 14 14 6 1 12 6 1 4 23	EA SF LS TON EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00 395.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking	2 5,016 1 14 14 6 1 12 6 1 4 23	EA SF LS TON EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00 395.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Exterior Light Fixture - Exterior Light Fixture - Exterior Light Fixture - Replace remaining @ 1/120 SF	2 5,016 1 14 14 6 1 12 6 1 4 23	EA SF LS TON EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00 395.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking	2 5,016 1 14 14 6 1 1 4 23 < E	EA SF LS TON EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00 395.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580		
3 00 00	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Vendent Light F	2 5,016 1 14 12 6 6 1 4 23 < E	EA SF LS TON EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 275.00 245.00 795.00 395.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Lighting and Branch Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Exterior Light Fixture - Exterior Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking Lighting Device Branch Lighting controls - local	2 5,016 1 14 14 6 1 12 6 1 1 4 23 < E	EA SF LS TON EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 395.00 240.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting and Branch Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking Lighting Device Branch Lighting Controls - local Occupancy Sensor - retrift to existing control	2 5,016 1 14 14 6 1 1 2 6 1 1 4 23 2 3 < E 5 6 1 4 23 5 6 5 6 6 6 6 6 5 6 6 6 6 6 6 6 7 7 7 7	EA SF LS TON EA EA EA EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 395.00 240.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Ventore Light F	2 5,016 1 14 12 6 1 1 4 23 23 < E 	EA SF LS TON EA EA EA EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 395.00 240.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Nereiror Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking Light fixture - Iocal Occupancy Sensor - retrift to existing control Site lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controls - local Lighting branch wiring & Conduits - site light poles allowance	2 5,016 1 14 12 6 1 1 4 23 23 < E 	EA SF LS TON EA EA EA EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 395.00 240.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472		15,
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting and Branch Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Pendent Light Fixture - Pendent Light Fixture - Repelace remaining @ 1/120 SF Site light poles @ Parking Lighting Device Branch Lighting Device Branch Lighting Controlls - local Occupancy Sensor - refrit to existing control Site lighting branch wiring & Conduits - site light poles allowance Power	2 5,016 1 14 14 6 1 1 2 6 1 1 4 23 < E 	EA SF LS TON EA EA EA EA EA EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 795.00 240.00 240.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 1,587 3,300		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Subtotal HVAC Electrical Lighting and Branch Lighting Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - Vendent Lighting Light Fixture - Vendent Lighting Light Fixture - Repeate remaining @ 1/120 SF Site light poles @ Parking Lighting controls - local Occupancy Sensor - refirt to existing control Site lighting control - Clock Lighting branch wring - Lighting branch wring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems	2 5,016 1 14 14 6 1 1 4 4 23 < E < Assu < E < Assu < E	EA SF LS TON EA EA EA EA EA EA EA EA EA EA EA Sclude EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 240.00 550.00 60,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472 3,300 60,000		
	Fixture Rough-in Subtotal Plumbing HVAC Controls and Instrumentation - Provide control for new Mechanical Systems Ceiling Fan Split Systems with Heat Pumps - Assumes 1 ton / 350 SF Electrical Lighting and Branch Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture 1x4 Surface Light Fixture - terrior Light Fixture - terrior Light Fixture - Replace remaining @ 1/120 SF Site light poles @ Parking Light Fixture - local Occupancy Sensor - retrift to existing control Site lighting controls - local Coccupancy Sensor - retrift to existing control Site lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior	2 5,016 1 14 12 6 1 1 4 23 2 3 < E	EA SF LS TON EA EA EA EA EA EA EA EA Sxclude EA Sxclude LS EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 6.50 750.00 7,500.00 245.00 245.00 240.00 240.00 550.00 60,000.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	790 32,604 750 107,486 3,300 1,470 795 1,580 5,472 3,300 60,000 18,000		
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<u>Old Town Hall</u>	5016± SF GROSS - 31 Field Park Drive	
	(Second floor not included)	Quantity Unit
Exterior	30 year asphalt shingles	
Asphalt shingle roof		3000 SF
Gutters		160 LF
Downspouts	24'H	4
Re-seal stone veneer		7280 SF
First Floor Windows	Energy Efficient Single Hung 7'x4'W/Grid	15
Second Floor Windows	Energy Efficient Single Hung 7'x4'W/Grid	17
Basement windows	Energy Efficient Fixed 4'x 2'W/Grid	3
Attic Windows	Energy Efficient Single Hung 3'x2'W/Grid	4
6 panel Exterior Doors	ADA Hardware	1
4 panel w/transom	ADA Hardware	2
3 panel ADA Door	ADA Hardware & Push Button	1
Paint Columns	3' Dia 24'H	4
Paint Columns	2' W x 24'H	4 2
Paint Trim	1'H	250 LF
Repoint Stone Steps	10'D x 28'W 4R @ 6" Stone	4 Risers
nterior		
First Floor New Flooring	Vinyl Sheet Flooring	2508 SF
Gypsum Ceiling	Meeting Area	1786 SF
<u>Kitchen</u>		
Base cabinets		16 LF
Jpper cabinets		20 LF
ADA Refrigerator		1
ADA Microwave		1
ADA Residential Oven		1
ADA Dishwasher		1
ADA Residential 3 bay sink	Commercial use	1
, Stairs:		
Anti slip nosing		22 Risers
Interior Doors	Solid Wood/Historic	8
Plumbing		
Toilets		1
Faucets		1
nsulate piping	All exposed copper Piping	460
New Domestic water heater	30 Gallon	1
Mechanical		
Split system heat pump		7 units
Electrical		
New Lighting:	Throughout entire building	
Exterior Lights	Wall Mounted	4
Basement Interior Lights	Utility Lights 4'L	6
Meeting Room	1 x4 surface mounted	12
First Floor	Hanging	1
Ceiling Fan	3'W	1
Vacancy Sensors		6
High speed internet connection		2
Structural		
Repoint Window wells	Field Stone (2) 4'D 3'W	24 SF

Haddam Community Center - Facilities Assessment upgrades

7 Candlewood Hill Road - Concept Estimate

Date: Tuesday, March 26, 2024







DATE:

3/26/2024

Basis Of Estimate

Basis of Estimate

Introduction

PACS has been engaged by Antinozzi Associates Architects to provide a Cost Estimate.

- Estimate is based on the Town of Haddam Facility Assessment Report draft for review dated January 31, 2024:
 - Estimate quantities are based on the Haddam Community Center Quantities provided by Antinozzi Associates (attached).

Quantities and Methodology

- The cost estimate is based on the measurement of quantities wherever possible.
- Where actual measurements are not used, parametric measurements are used in conjunction with previous but similar project benchmarks.
- PACS uses a wide range of standard measurement and quantifying methods that are common practice in the construction industry today.

Basis of Pricing

- a) The construction costs shown in this estimate represent the fair market value and are not intended to be a prediction of the lowest bid.
- b) The costs include: labor, material, equipment and the subcontractors overhead and profit. (Subcontractor's Mark Up)
- c) The cost of labor is based on local Prevailing wage rates for all trades.
- d) The construction rates used are based in "today's dollar" and an escalation allowance is included in the Estimate summary.
- e) Our pricing assumes competitive bidding on all elements of the construction work, assuming a minimum of three competitive bidders for all general contractors, subcontractors, materials and
- f) It is typical in our experience that if fewer bids are received or solicited, prices can be expected to be higher due to lack of competition.
- g) The subcontractor's mark ups include their own overhead, including the cost in the field as well as profit.
- h) PACS has priced this taking into account current market conditions, competition between trades and the cost fluctuations in the construction industry.
- i) Estimate assumes no Phasing required..
- j) Proposal is based on construction being performed on regular hours.

Basis Of Estimate

Design and Pricing Contingency

A Design and Pricing Contingency is used as a budgetary tool that allows for scope and detail not defined during the design stage. As the design becomes more defined as the project passes through the design stages, the Design and Pricing Contingency decreases as more scope and detail is now being shown in the documents and is therefore reflected in the cost estimate as actual trade cost. The Design and Pricing Contingency is reduced to zero at 100% Bid Documents.

Escalation

As outlined above the estimate is calculated using rates that are "today's dollar" and reflect the cost of the project as if it was to bid on the date of issue. Due to construction projects having long design phases and long construction schedules, its is imperative to project the construction cost further ahead into the future to the point at which it is bid out. It is common practice to escalate the cost estimate to the mid point of construction to accommodate for economic inflation. This percentage accounts for this increase.

Construction Contingency

PACS advise that a Construction Contingency is carried for unforeseen project conditions and field changes. Typically we see this in the range of 3% to 5% dependent on the scope of the project.

Probable Cost

It is important for the Owner and Design team to carefully review this cost estimate including all line item descriptions, clarifications, exclusions, unit prices, assumptions, allowances, mark ups and contingencies to ensure the estimate reflects the scope of the project.

PACS has produced the cost estimate based on the widely practiced methods of cost estimating and aims to reflect the fair market value of the construction project. Our aim is to be not the highest or the lowest in the range of bids but to use our experience and expertise in the construction industry to provide the client with a degree of confidence that the project will be close to our calculated estimate.

Exclusions

This cost estimate excludes the following:

- Premiums for working in inaccessible or partially accessible spaces during construction
- Surplus Stock and Spares
- Premiums for restrictive and uncompetitive bidding
- Premiums for non-standard work times
- Work beyond the project limits
- CT Sales Tax Assumes Exempt
- Wellpoints Assumes open trench pumping only
- Rock or Unsuitable soils remediation
- Hazardous, Contaminated or Polluted soils
- Hazardous materials, abatement or associated restoration within the buildings
- AV Equipment / Technology Budget
- Utility Costs Electric, Gas, Water (assumes by Owner)

Risks to the Cost Estimate

Items that may affect the cost estimate, the list as follows but not limited:

- Changes to the design subsequent to the issue of the documents stated above which this estimate is based on
- Non Competitive Bid restrictions and the sole sourcing of products/materials from specific vendors
- Restrictive technical specifications that produce and non competitive environment
- Changes to the project schedule that delay the project and therefore have impact on cost
- Incomplete and poorly coordinated documentation
- Access restrictions, unidentified out of hours work policies and phasing restrictions
- Restrictive technical specifications that produce a non competitive environment
- Unforeseen and unknown Site conditions

DATE:



Trade		Cost	Cost / S	F
01 50 00	Temporary Facilities and Controls	\$ 28,380	\$ 7.5	50
02 41 19	Selective Demolition	\$ 15,762	\$ 4.1	17
03 30 00	Cast-In-Place Concrete	\$ -	\$ -	
04 20 00	Unit Masonry	\$ 29,725	\$ 7.8	36
05 50 00	Metal Fabrications	\$ 5,000	\$ 1.3	32
06 10 00	Rough Carpentry	\$ -	\$-	
06 20 00	Finish Carpentry	\$ 38,439	\$ 10. ⁻	16
07 50 00	Roofing	\$ 69,167	\$ 18.2	28
07 92 00	Joint Sealants	\$ 2,500	\$ 0.6	36
08 10 00	Hollow Metal Doors & Frames	\$ 41,810	\$ 11.0)5
08 50 00	Windows	\$ 24,960	\$ 6.6	30
09 51 00	Acoustical Ceiling	\$ 14,048	\$ 3.7	71
09 65 00	Resilient Flooring	\$ 31,002	\$ 8.1	19
09 91 00	Painting & Wallcoverings	\$ 17,942	\$ 4.7	74
10 28 00	Toilet Accessories	\$ 650	\$ 0.1	17
11 30 00	Residential Appliances	\$ 8,140	\$ 2.1	15
22 00 00	Plumbing	\$ 20,780	\$ 5.4	1 9
23 00 00	HVAC	\$ 105,682	\$ 27.9) 3
26 00 00	Electrical	\$ 84,138	\$ 22.2	24
33 00 00	Sitework	\$ 21,358	\$ 5.6	34
TOTAL DIR	ECT COST	\$ 559,482	\$147.85	



Trade		Cost	Cost / SF
TOTAL DIRECT COST (FROM PREVIOUS PAGE)		\$ 559,482	\$147.85
Design & Estimating Contingency	10.00%	\$ 55,948	
Escalation -	6.00%	\$ 36,926	
General Conditions- (3 mos. @ 25,000 / Month)	\$ 75000	\$ 75,000	
Preconstruction - Assumes None		\$ -	
GC Insurances	1.25%	\$ 9,092	
GC Surety Bond	0.78%	\$ 5,088	
GC Fee	5.00%	\$ 32,618	
TOTAL CONSTRUCTION COST (DIRECT & INDIRECT COSTS)		\$ 774,154	\$204.59
Bonding & Legal fees to Town	Excluded	Excluded	
A&E Fees / Professional Services	7.00%	\$ 54,191	
Commissioning agent	Excluded	Excluded	
Owners Representative	Excluded	Excluded	
Builders Risk Insurance - Town	Excluded	Excluded	
Testing & Inspections	Excluded	Excluded	
Building Permit - Assumes waived	Excluded	Excluded	
Moving & Relocation costs	Excluded	Excluded	
FF&E (Furniture Fixtures and Equipment)	Excluded	Excluded	
State Permit 0.26%	Excluded	Excluded	
A/V Systems - Assumes in FF&E	Excluded	Excluded	
Artwork - By Owner	Excluded	Excluded	
Utility Connection fees allowance	Excluded	Excluded	
Owners Contingency:	5.00%	\$ 38,708	
TOTAL CONSTRUCTION & SOFT COSTS		\$ 867,052	\$229.14

Haddam Community Center - Facilities Assessment upgrades

7 Candlewood Hill Road - Concept Estimate



01 50 00									
	Temporary Facilities and Controls	0.704	SF	\$	7.50	¢	28,380		
	Temporary Site Services - GC Bid (minimal) Subtotal Temporary Facilities and Controls	3,784	SF	Э	7.50	¢	26,360	\$	28,3
								•	20,0
2 11 00	Contaminated Soil Excavation & Disposal								
	Assumes not required	<	Exclude	d >					
	Subtotal Contaminated Soil Excavation & Disposal							\$	
2 12 00	Transportation/Disposal of Contaminated Materials								
2 12 00	Assumes not required	<	Exclude	d >					
	Subtotal Transportation/Disposal of Contaminated Materials							\$	
2 80 00	Hazardous Abatement								
	Assumes not required Subtotal Hazardous Abatement	<	Exclude	a >				\$	
								Ŷ	
2 41 16	Building Demolition								
	Assumes not required	<	Exclude	d >					
	Subtotal Building Demolition							\$	
2 41 19	Selective Demolition								
241 19	Remove doors-prep for new frame installation	11	EA	\$	75.00	\$	825		
	Demo existing flooring and base	3,784	SF	\$	2.55		9,649		
	Demo existing kitchen cabinets and appliances	1	LS	\$	750.00		750		
	Demo existing gyp ceilings for replacement		Exclude			-		-	
	Demo existing plumbing fixtures - prep for replacement	5		\$	75.00	\$	375	-	
	Demo existing lighting - prep for replacement	3,784		\$	1.10		4,162	-	
	Subtotal Selective Demolition	.,		1		-		\$	15
								Ĺ	
3 30 00	Cast-In-Place Concrete								
	None identified	<	Exclude	d >					
	Subtotal Cast-In-Place Concrete			-				\$	
4 20 00	Unit Masonry								
- 20 00	Envelope								
	Control Joints CMU	120	LF	\$	18.00		2,160	-	
	Repair & Repoint chimney - brick	200	SF	\$	75.00	\$	15,000		
	Clean & Seal Brick Veneer	2,300	SF	\$	4.25		9,775		
	Clean & Seal CMU	900	SF	\$	3.10	\$	2,790		
	Subtotal Unit Masonry							\$	29
5 50 00	Metal Fabrications	10	1.5	•	105.00	-			
	New Steel Lintels & Flashing	40	LF	\$	125.00	\$	5,000	\$	5,
	Subtotal Metal Fabrications							\$	э,
6 10 00	Rough Carpentry								
	None identified	<	Exclude	d >					
	Subtotal Rough Carpentry							\$	
c	Finite Organization								
6 20 00	Finish Carpentry Exterior Finish Carpentry & Trims - installed								
	Exterior door replacements - Exterior trims	< n	ot inclu	led >					
	Exterior Window replacements - Exterior trims	278	LF	\$	22.50		6,255		
	Exterior Mechanical Louvers	3		\$	375.00		1,125		
	Exterior Replace cedar shakes	540	SF	\$	17.95	\$	9,693		
	Interior Finish Carpentry & Millwork								
	Exterior door replacements -Interior trims		ot inclu						
	Exterior door replacements -Interior trims Window replacements -Interior trims	278	LF	\$	17.00		4,726		
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top	278 26	LF LF	\$ \$	395.00	\$	10,270		
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers	278	LF LF	\$		\$		\$	38
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top	278 26	LF LF	\$ \$	395.00	\$	10,270	\$	38
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing	278 26 26	LF LF LF	\$ \$ }	395.00 245.00	\$	10,270 6,370	\$	38
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield	278 26 26 4,066	LF LF LF SF	\$ \$ \$	395.00 245.00 14.50	\$ \$ \$	10,270 6,370 58,957	\$	38
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace	278 26 26 4,066 152	LF LF LF SF LF	\$ \$ \$ \$	395.00 245.00 14.50 35.00	\$ \$ \$ \$	10,270 6,370 58,957 5,320		38
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace	278 26 26 4,066 152 84	LF LF SF LF LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940		38
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks -	278 26 26 4,066 152 84 6	LF LF SF LF LF	\$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320		38,
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards -	278 26 26 4,066 152 84 6	LF LF SF LF LF EA	\$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940		
7 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks -	278 26 26 4,066 152 84 6	LF LF SF LF LF EA	\$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940		
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabine with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters - Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing	278 26 26 4,066 152 84 6	LF LF SF LF LF EA	\$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940		
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards -	278 26 26 4,066 152 84 6	LF LF LF SF LF EA ot inclue	\$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940		
	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants	278 26 26 4,066 152 84 6 < n	LF LF LF SF LF EA ot inclue	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950		69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants	278 26 26 4,066 152 84 6 < n	LF LF LF SF LF EA ot inclue	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950	\$	69
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabine with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters - Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames	278 26 26 152 84 6 < n	LF LF LF SF LF EA ot inclue	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00	\$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants	278 26 26 152 84 6 < n	LF LF LF SF LF EA ot inclue	\$ \$ \$ \$ \$ \$ \$ ded > \$ \$	395.00 245.00 14.50 35.00 35.00 325.00	\$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabine with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters - Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Exterior metal door, frame and hardware replacement	278 26 26 4,066 152 84 6 < n 1 1 2 84 6 < n 1 5 2 84 152 84 6 < 152 84 84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LF LF LF LF EA ot inclue LS ot inclue	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00	\$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Solid Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Provide door operator	278 26 26 152 84 6 < n 1 1 1 2 84 6 < n 1 1 1 3 8 8 4 3 8 8 6 5 7 8 4 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	LF LF LF SF LF EA Ot inclu EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00 3,500.00 2,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Provide door operator Install frame	278 26 26 152 84 6 < n 1 1 2 84 6 < n 3 8 8 3 8 8 4 n 11	LF LF LF EA trincluu EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Provide door operator Install Door leaf	278 26 26 152 84 6 < n 1 1 2 84 6 < n 152 84 152 84 6 < n 8 8 4 6 152 84 152 152 152 152 152 152 152 152 152 152	LF LF LF LF EA LF EA LF LF EA LF EA LF EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00 2,500.00 2,500.00 120.00 90.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,950 1,950 2,500 10,500 20,000 1,320 990	\$	69.
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Solash Biocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door perators Install Door leaf New 10x10 OH Garage doors with operators - Remove & Replace	278 26 26 152 84 6 < n 1 1 2 84 6 < n 3 8 8 3 8 8 4 n 11	LF LF LF LF EA LF EA LF LF EA LF EA LF EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320	\$ \$ \$	69
7 50 00 7 92 00 8 10 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door, frame and hardware replacement Provide door operator Install Tame Install Door leaf New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames New 10x10 OH Garage doors with operators - Remove & Replace New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames	278 26 26 152 84 6 < n 1 1 2 84 6 < n 152 84 152 84 6 < n 8 8 4 6 152 84 152 152 152 152 152 152 152 152 152 152	LF LF LF LF EA LF EA LF LF EA LF EA LF EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00 2,500.00 2,500.00 120.00 90.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,950 1,950 2,500 10,500 20,000 1,320 990	\$	38, 69, 2, 41,
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabines with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Splash blocks - Snow guards - Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement	278 26 26 152 84 6 < n 1 1 2 84 152 84 6 < n 152 84 6 < n 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 84 152 84 84 84 84 84 84 84 84 84 84 84 84 84	LF LF LF LF LF LF EA tincluu EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00 2,500.00 120.00 90.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$	69
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Subtotal Solid Surface Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior word door, frame and hardware replacement Interior wood door, frame and hardware replacement Interior word door, frame and hardware re	278 26 26 152 84 6 < n 1 1 1 3 8 8 < n 1 1 1 1 2 240	LF LF LF SF LF EA the EA EA EA EA EA SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$ \$	69
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door perator Exterior metal door frame and hardware replacement Interior wood door grame on Hardware replacement Interior wood door grame on Hardware replacement Interior wood door frame and hardware replacement Interior wood door, frame and hardware replacement Interior wood door grame on Hardware replacement Interior wood door frame and hardware replacement Inte	278 26 26 152 84 6 < n 1 1 2 84 152 84 6 < n 152 84 6 < n 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 152 84 84 152 84 84 84 84 84 84 84 84 84 84 84 84 84	LF LF LF SF LF EA the EA EA EA EA EA SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 325.00 2,500.00 2,500.00 120.00 90.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$	69 2 41,
7 92 00 8 10 00 8 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinet with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Subtotal Joint Sealants Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Exterior metal door, frame and hardware replacement Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement Interior wood door, frame and hardware replacement New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames Exterior Metal Moor leaf New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames Exterior metal Moor in the perators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement New 10x10 OH Garage doors with operators - Remove & Replace Subtotal Hollow Metal / Wood Doors & Frames Remove & Replace with single hung energy efficient windows Window Treatments Subtotal Window Treatments	278 26 26 152 84 6 < n 1 1 1 3 8 8 < n 1 1 1 1 2 240	LF LF LF SF LF EA the EA EA EA EA EA SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$ \$	69
7 92 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabiover & replace to the set of th	278 26 26 152 84 6 < n 1 1 1 1 2 240 240 240	LF LF LF EA SF EA LF EA LF EA LS Ot includ EA EA EA EA SF SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$	69 2 41,
7 92 00 8 10 00 8 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinor text with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Exterior metal door, frame and hardware replacement Interior word door, frame and hardware replacement Interior lead for lead Intervent Replace Install frame In	278 26 26 152 84 6 < n 1 1 1 1 2 240 240 240	LF LF LF SF LF EA the EA EA EA EA EA SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$ \$ \$	69 2 41,
7 92 00 3 10 00 3 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabiover & replace to the set of th	278 26 26 152 84 6 < n 1 1 1 1 2 240 240 240	LF LF LF EA SF EA LF EA LF EA LS Ot includ EA EA EA EA SF SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$	69 2 41
7 92 00 3 10 00 3 50 00	Exterior door replacements -Interior trims Window replacements -Interior trims Base cabinor text with Solid surface top Plam uppers Subtotal Finish Carpentry Roofing Asphalt shingle roof - Rip and replace with Ice & Water Shield Gutters Remove & replace Leaders - Remove & replace Leaders - Remove & replace Subtotal Roofing Joint Sealants Caulking & Sealants Caulking & Sealants Exterior metal door, frame and hardware replacement Interior word door, frame and hardware replacement Interior lead for lead Intervent Replace Install frame In	278 26 26 152 84 6 < n 1 1 1 1 2 240 240 240	LF LF LF EA SF EA LF EA LF EA LS Ot includ EA EA EA EA SF SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	395.00 245.00 14.50 35.00 35.00 325.00 2,500.00 2,500.00 120.00 4,500.00 4,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,270 6,370 58,957 5,320 2,940 1,950 2,500 10,500 20,000 1,320 990 9,000	\$ \$ \$ \$ \$	69 2 41



09 65 00	Element / Description Resilient Flooring	Quantity	Unit	U	nit Rate (\$)	Ext	tension (\$)	Subtotal
	Vinyl Sheet Flooring - installed	3,784	SF	\$	6.75	\$	25,542	
	Resilient Base 4" vinyl	760	SF	\$	3.45	\$	2,622	
	Floor Prep - Resilient	3,784	SF	\$	0.75	\$	2,838	
	Subtotal Resilient Flooring							\$ 31
09 91 00	Painting & Wallcoverings Painting - walls & Ceilings	3,784	SF	\$	3.65	¢	13,812	
	Painting Exterior trims and siding - Repair work only	1	LS	\$	1,500.00		1,500	
	Paint Doors and Frames (new)	11	EA	\$	80.00		880	
	Paint Cupola	1	LS	\$	1,750.00		1,750	
	Subtotal Painting & Wallcoverings		20	Ψ.	1,100.00	Ţ.	1,700	\$ 17
0 28 00	Toilet Accessories							
	TR Accessories - PT Dispenser		ot incluc					
	TR Accessories - Grab Bars		ot incluc EA		205.00	¢	590	
	TR Accessories - Lav Guard TR Accessories - Electric Hand Dryers		EA ot includ		295.00	¢	590	
	TR Accessories - Soap dispensers		ot includ					
	TR Accessories - Mirrors		ot includ					
	TR Accessories - Coat hooks		ot includ					
	TR Accessories - Custodial		ot includ					
	TP Dispensers		ot includ					
	Baby changing stations		ot includ					
	Accessory Installation	2	EA	\$	30.00	\$	60	
	Subtotal Toilet Accessories							\$
1 30 00	Residential Appliances		F (¢	0.050.07	¢	0.075	
	Refrigerator - ADA	1	EA	\$	2,350.00		2,350	
	Microwave - ADA	1	EA	\$	795.00		795	
	Range with oven - ADA Dishwasher ADA	1	EA EA	\$ \$	2,250.00		2,250 1,750	
	Residential range hood	1	EA	\$ \$	995.00		995	
	Subtotal Residential Appliances	1	<u>ι</u> Λ	Ψ	355.00	Ψ	550	\$ 8
00 00	Fire Protection							
	Fire Protection -Distribution	< E	Exclude	d >				
	Subtotal Fire Protection							\$
2 00 00	Plumbing	220	LS	¢	7.05	¢	2,320	
	Pipe insulation - insulate existing exposed copper piping	320		\$	7.25			
	Fixture - Floor sink - Kitchen	1	EA	\$	2,225.00		2,225	
	Fixture - Sink and faucet - TR wall hung vitreous	2	EA	\$	1,100.00		2,200	
	Fixture - Urinal	1	EA	\$	1,495.00		1,495	
	Fixture - Water Closet	2	EA	\$	1,675.00		3,350	
	Fixture - Custodial Mop Sink	1	EA	\$	1,425.00		1,425	
	Fixture - ADA Shower unit & Shower Valve assy Fixture Rough-in	7	EA EA	\$ \$	5,000.00 395.00		5,000 2,765	
	Subtotal Plumbing	1	LA	φ	333.00	φ	2,703	\$ 20
23 00 00	HVAC							
	Controls and Instrumentation - Provide control for new Mechanical Systems	3,784	SF	\$	6.50	¢	24,596	
	Split Systems with Heat Pumps - Assumes 1 ton / 350 SF	3,784	TON		7,500.00		81,086	
	Subtotal HVAC		1011	Ψ	1,000.00	Ψ	01,000	\$ 105
								•
6 00 00	Electrical							
	Lishting and Deepsh							
	Lighting and Branch Lighting	<u> </u>						
	Light Fixture 8" Diameter	4	EA	\$	275.00	\$	1,100	
	Light Fixture 1x4 Surface - utility	6	EA	э \$	245.00		1,100	
	Light Fixture - 2x4 troffer	8	EA	\$	325.00		2,600	
	Light Fixture - Exterior	6	EA	\$	395.00		2,370	
	Light Fixture - Rqeplace remaining @ 1/120 SF	14	EA	\$	240.00		3,248	
			Exclude	d >				
	Site light poles @ Parking	<1						
		< 1						
	Lighting Device Branch		imes Fr	ristina >	>			
	Lighting Device Branch Lighting controls - local	< Assı	imes Ex			\$	6 600	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control	< Assı 12	EA	\$	\$550.00	\$	6,600	
	Lighting Device Branch Lighting controls - local	< Assı 12 < E		\$ d >	550.00	\$	6,600	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock	< Assı 12 < E < Assı	EA Exclude	\$ d > kisting >	550.00	\$	6,600	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance	< Assı 12 < E < Assı	EA Exclude Imes Ex	\$ d > kisting >	550.00	\$	6,600	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power	< Assı 12 < F < Assı < F	EA Exclude Imes Ex Exclude	\$ d > d sting > d >	550.00			
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems	< Assu 12 < E < Assu < E	EA Exclude Imes Ex Exclude	\$ d > d > d > \$	550.00	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power	< Assu 12 < E < Assu < E	EA Exclude Imes Ex Exclude	\$ d > d > d > \$	550.00	\$		
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior	< Assu 12 < E < Assu < E	EA Exclude Imes Ex Exclude	\$ d > d > d > \$	550.00	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security	< Assu 12 < E < Assu < E	EA Exclude Imes Ex Exclude	\$ d > d > d > \$	550.00	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior	< Assu 12 < E < Assu < E	EA Exclude Imes Ex Exclude LS EA	\$ d > d > d > d > \$ \$	550.00 60,000.00 2,250.00	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices	< Assu 12 < t < Assu 1 3 < Assum < Assum	EA Exclude imes Ex Exclude LS EA es not r es not r	\$ d > d > d > \$ \$ \$ equirecteq	550.00 60,000.00 2,250.00 d >	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels ., licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	< Assu 12 < [< Assu - 1 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d > d > \$ \$ \$ equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices	< Assu 12 < t < Assu 1 3 < Assum < Assum	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d > d > \$ \$ \$ equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels ., licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	< Assu 12 < [< Assu - 1 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d > d > \$ \$ \$ equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$	60,000	
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels ., licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	< Assu 12 < [< Assu - 1 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d > d > \$ \$ \$ equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$	60,000	\$ 84
	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controler / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Subtotal Electrical	< Assu 12 < [< Assu - 1 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d > d > \$ \$ \$ equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$	60,000	\$ 84
3 00 00	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control docr roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Subtotal Electrical Sitework	< Assu 12 < t 4 Assu 4 Assum < Assum < Assum < Assum	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d sting > d > \$ \$ \$ equirecequi	550.00 60,000.00 2,250.00 1> 1> 1> 1>	\$	60,000 6,750	\$ 84
3 00 00	Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controler / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Power Provide new 400A Incoming Servise to support new Mechanical Systems Provide power to Heat Pump units - Interior & Exterior Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Subtotal Electrical	< Assu 12 < E < Assu 1 1 3 < Assum < Assum < Assum < Assum	EA Exclude Imes Ex Exclude LS EA es not r es not r es not r	\$ d > d sting > d > \$ \$ \$ equirece equirece equirece equirece equirece	550.00 60,000.00 2,250.00 d > 1 > 1 >	\$ \$ 	60,000	\$ 84

Haddam Community Center	3784± SF GROSS - 7 Candlewood Hill Road	
	Description	Quantity Unit
Site		
Asphalt paving	Adjacent to Building	1660 SF
Car parking Striping		25
1 ADA Striping		3
ADA Parking Signage		2
Location Signage		2
Exterior		
Asphalt shingle roof	30 year asphalt shingles	4066 SF
Gutters		152 LF
Downspouts First Floor Windows	14'H Energy Vinyl Awning 4'X3'	6 3
First Floor Windows	Energy Efficient Vinyl Single Hung 4'X3'	9
First Floor Windows	Energy Efficient Vinyl Fixed 6' X6'	1
First Floor Windows	Energy Efficient Vinyl Fixed 5'X3'	2
First Floor Windows	Energy Efficient Vinyl Sliders 5'X 2'	3
Overhead Garage Doors	Insulated Doors 10'W X 10'H	2
Exterior Doors & Hardware		3
Mechanical Louvers	Drainable W/ insect screen 2' x 1'	3
Seal Brick Veneer	Entire Building	2300 SF
Masonry cleaning & Repoint CMU	Entire Building	900 SF
Replace Cedar Shake		540 SF
Paint Cupola	Scrape, Patch, Clean & Repaint	120 SF
Interior		
First Floor New Flooring	Vinyl Sheet Flooring	3784 SF
First Floor Base	4" Rubber	760 LF
ACT Ceiling	New 2x2 ACT Meeting Room	1767 SF
Interior Doors & Hardware	Flush Wood Doors/Flush Wood Doors w/Lite	8
Window Treatments	Mecho shade	18
Repaint	All Rooms	
<u>Kitchen:</u>		
Base cabinets		26 LF
Upper cabinets		26 LF
ADA Refrigerator		1 1
ADA Microwave ADA Residential Oven		1
ADA Dishwasher		1
		1
Plumbing_		2
Sink Toilet		2
Urinal		2
Floor Sink		1
Mop Sink		1
Insulate piping	All exposed copper piping	320 LF
Shower assembly	4x4 ADA Shower	1 1
Mechanical		-
Split system heat pump		3 Systems
Electrical	T	
New Lighting: 1x4 Fixture Surface mounted	Throughout entire building	c
	Toilet Rooms/kitchen	6 4
8"dia Surface mounted Surface Mounted Exterior	Hallway	4 6
2x4 Fixtures in Grid	Building Meeting Space	ь 8
Vacancy Sensors	meeting space	° 12
Programable thermostats		3
High speed internet connection		3
Structural		5
Repair & Repoint Chimney	Brick	200 SF
New Steel Lintels & Flashing	5'W	8
Control Joints	CMU	120 LF

Haddam Senior Center - Facilities Assessment upgrades

923 Saybrook Road - Concept Estimate

Date: Tuesday, March 26, 2024







DATE:

3/26/2024

Basis Of Estimate

Basis of Estimate

Introduction

PACS has been engaged by Antinozzi Associates Architects to provide a Cost Estimate.

Estimate is based on the Town of Haddam Facility Assessment Report draft for review dated January 31, 2024: • Estimate quantities are based on the Haddam Senior Center Quantities provided by Antinozzi

Associates (attached).

923 Saybrook Road - Concept Estimate

Quantities and Methodology

- The cost estimate is based on the measurement of quantities wherever possible.
- Where actual measurements are not used, parametric measurements are used in conjunction with previous but similar project benchmarks.
- PACS uses a wide range of standard measurement and quantifying methods that are common practice in the construction industry today.

Basis of Pricing

- a) The construction costs shown in this estimate represent the fair market value and are not intended to be a prediction of the lowest bid.
- b) The costs include: labor, material, equipment and the subcontractors overhead and profit. (Subcontractor's Mark Up)
- c) The cost of labor is based on local Prevailing wage rates for all trades.
- d) The construction rates used are based in "today's dollar" and an escalation allowance is included in the Estimate summary.
- e) Our pricing assumes competitive bidding on all elements of the construction work, assuming a minimum of three competitive bidders for all general contractors, subcontractors, materials and
- f) It is typical in our experience that if fewer bids are received or solicited, prices can be expected to be higher due to lack of competition.
- g) The subcontractor's mark ups include their own overhead, including the cost in the field as well as profit.
- h) PACS has priced this taking into account current market conditions, competition between trades and the cost fluctuations in the construction industry.
- i) Estimate assumes no Phasing required..
- j) Proposal is based on construction being performed on regular hours.

923 Saybrook Road - Concept Estimate

Basis Of Estimate

Design and Pricing Contingency

A Design and Pricing Contingency is used as a budgetary tool that allows for scope and detail not defined during the design stage. As the design becomes more defined as the project passes through the design stages, the Design and Pricing Contingency decreases as more scope and detail is now being shown in the documents and is therefore reflected in the cost estimate as actual trade cost. The Design and Pricing Contingency is reduced to zero at 100% Bid Documents.

Escalation

As outlined above the estimate is calculated using rates that are "today's dollar" and reflect the cost of the project as if it was to bid on the date of issue. Due to construction projects having long design phases and long construction schedules, its is imperative to project the construction cost further ahead into the future to the point at which it is bid out. It is common practice to escalate the cost estimate to the mid point of construction to accommodate for economic inflation. This percentage accounts for this increase.

Construction Contingency

PACS advise that a Construction Contingency is carried for unforeseen project conditions and field changes. Typically we see this in the range of 3% to 5% dependent on the scope of the project.

Probable Cost

It is important for the Owner and Design team to carefully review this cost estimate including all line item descriptions, clarifications, exclusions, unit prices, assumptions, allowances, mark ups and contingencies to ensure the estimate reflects the scope of the project.

PACS has produced the cost estimate based on the widely practiced methods of cost estimating and aims to reflect the fair market value of the construction project. Our aim is to be not the highest or the lowest in the range of bids but to use our experience and expertise in the construction industry to provide the client with a degree of confidence that the project will be close to our calculated estimate.

Exclusions

This cost estimate excludes the following:

- Premiums for working in inaccessible or partially accessible spaces during construction
- Surplus Stock and Spares
- Premiums for restrictive and uncompetitive bidding
- Premiums for non-standard work times
- Work beyond the project limits
- CT Sales Tax Assumes Exempt
- Wellpoints Assumes open trench pumping only
- Rock or Unsuitable soils remediation
- Hazardous, Contaminated or Polluted soils
- Hazardous materials, abatement or associated restoration within the buildings
- AV Equipment / Technology Budget
- Utility Costs Electric, Gas, Water (assumes by Owner)

Risks to the Cost Estimate

Items that may affect the cost estimate, the list as follows but not limited:

- Changes to the design subsequent to the issue of the documents stated above which this estimate is based on
- Non Competitive Bid restrictions and the sole sourcing of products/materials from specific vendors
- Restrictive technical specifications that produce and non competitive environment
- Changes to the project schedule that delay the project and therefore have impact on cost
- Incomplete and poorly coordinated documentation
- Access restrictions, unidentified out of hours work policies and phasing restrictions
- Restrictive technical specifications that produce a non competitive environment
- Unforeseen and unknown Site conditions

3/26/2024



DATE:

Haddam Senior Center - Facilities Assessment upgrades

923 Saybrook Road - Concept Estimate



		Base Bui	lding	Additio	on
Trade		Cost	Cost / SF	Cost	Cost / SF
01 50 00	Temporary Facilities and Controls	\$ 31,680	\$ 15.00	\$ -	\$ -
02 41 19	Selective Demolition	\$ 14,950	\$ 7.08	\$ -	\$-
03 30 00	Cast-In-Place Concrete	\$ 5,500	\$ 2.60	\$ -	\$ -
04 20 00	Unit Masonry	\$ 4,188	\$ 1.98	\$ -	\$ -
05 50 00	Metal Fabrications	\$ 3,300	\$ 1.56	\$ -	\$ -
06 10 00	Rough Carpentry	\$ 18,600	\$ 8.81	\$ -	\$ -
06 20 00	Finish Carpentry	\$ 27,915	\$ 13.22	\$ -	\$ -
07 50 00	Roofing	\$ 43,634	\$ 20.66	\$ -	\$-
07 92 00	Joint Sealants	\$ 1,500	\$ 0.71	\$ -	\$-
08 10 00	Hollow Metal Doors & Frames	\$ 8,130	\$ 3.85	\$ -	\$-
08 50 00	Windows	\$ 21,375	\$ 10.12	\$ -	\$-
09 51 00	Acoustical Ceiling	\$ 10,437	\$ 4.94	\$ -	\$-
09 65 00	Resilient Flooring	\$ 17,030	\$ 8.06	\$ -	\$ -
09 91 00	Painting & Wallcoverings	\$ 4,240	\$ 2.01	\$ -	\$-
10 28 00	Toilet Accessories	\$ 4,255	\$ 2.01	\$ -	\$ -
11 30 00	Residential Appliances	\$ 8,140	\$ 3.85	\$ -	\$ -
13 00 00	Special Construction (3,000 sf Addition)	\$ -	\$-	\$ 1,425,000	\$ 475.00
22 00 00	Plumbing	\$ 15,555	\$ 7.37	\$ -	\$ -
23 00 00	ниас	\$ 2,500	\$ 1.18	\$ -	\$ -
26 00 00	Electrical	\$ 78,350	\$ 37.10	\$ -	\$ -
33 00 00	Sitework	\$ 35,447	\$ 16.78	\$ 95,000	\$ 31.6
TOTAL DIR	507.0007	\$ 356,725	\$168.90	\$ 1,520,000	\$506.67

Haddam Senior Center - Facilities Assessment upgrades

923 Saybrook Road - Concept Estimate



prook Road - Concept Estimate						3/26/2024
			Base Bui	lding	Additic	on
Trade			Cost	Cost / SF	Cost	Cost / SF
TOTAL DIRECT COST (FROM PREVIOUS PAGE)		\$	356,725	\$168.90	\$ 1,520,000	\$506.67
Design & Estimating Contingency	10.00%	\$	35,673		\$ 152,000	
Escalation -	6.00%	\$	23,544		\$ 100,320	
General Conditions- (3 mos @ 25,000 / Month)	\$ 75000	\$	75,000		\$ 75,000	
Preconstruction - Assumes None		\$	-		\$ -	
GC Insurances	1.25%	\$	6,137		\$ 23,092	
GC Surety Bond	0.78%	\$	3,244		\$ 13,824	
GC Fee	5.00%	\$	20,797		\$ 88,616	
TOTAL CONSTRUCTION COST (DIRECT & INDIRECT COSTS)		\$	521,120	\$246.74	\$ 1,972,852	\$657.62
Bonding & Legal fees to Town	Excluded	E	Excluded		Excluded	
A&E Fees / Professional Services	7.00%	\$	36,478		\$ 138,100	
Commissioning agent	Excluded	E	Excluded		Excluded	
Owners Representative	Excluded	E	Excluded		Excluded	
Builders Risk Insurance - Town	Excluded	E	Excluded		Excluded	
Testing & Inspections	Excluded	E	Excluded		Excluded	
Building Permit - Assumes waived	Excluded	E	Excluded		Excluded	
Moving & Relocation costs	Excluded	E	Excluded		Excluded	
FF&E (Furniture Fixtures and Equipment)	Excluded	E	Excluded		Excluded	
State Permit 0.26%	Excluded	E	Excluded		Excluded	
A/V Systems - Assumes in FF&E	Excluded	E	Excluded		Excluded	
Artwork - By Owner	Excluded	E	Excluded		Excluded	
Utility Connection fees allowance	Excluded	E	Excluded		Excluded	
Owners Contingency:	5.00%	\$	26,056		\$ 98,643	
TOTAL CONSTRUCTION & SOFT COSTS		\$	583,654	\$276.35	\$ 2,209,594	\$736.53

Haddam Senior Center - Facilities Assessment upgrades

923 Saybrook Road - Concept Estimate





	Element / Description	Quantity	Unit	Unit Rate (\$)		Extension (\$)	Subtotal
01 50 00	Temporary Facilities and Controls	2 112	CE.	¢ 15	00 \$	21.690	
	Temporary Site Services - GC Bid (minimal) Subtotal Temporary Facilities and Controls	2,112	SF	\$ 15.	JU \$	31,680	\$ 31
02 11 00	Contaminated Soil Excavation & Disposal Assumes not required	<	Exclude	d >			
	Subtotal Contaminated Soil Excavation & Disposal						\$
02 12 00	Transportation/Disposal of Contaminated Materials				_		
02 12 00	Assumes not required	<	Exclude	d >			
	Subtotal Transportation/Disposal of Contaminated Materials						\$
02 80 00	Hazardous Abatement						
	Assumes not required	<	Exclude	d >			*
	Subtotal Hazardous Abatement				-		\$
02 41 16	Building Demolition						
	Assumes not required Subtotal Building Demolition	<	Exclude	d >			\$
							-
02 41 19	Selective Demolition Remove exterior doors-prep for new frame installation	3.0	EA	\$ 500.	00 \$	1,500	
	Demo existing flooring and base	2,112.0	SF		55 \$		
	Demo existing kitchen cabinets and appliances	1.0	LS	\$ 2,500.			
	Demo existing ACT ceilings	1,470.0	SF		95 \$		
	Demo existing plumbing fixtures - prep for replacement	2 112 0	EA		00 \$		
	Demo existing lighting - prep for replacement Subtotal Selective Demolition	2,112.0	SF	\$ 1.	10 \$	2,323	\$ 14
03 30 00	Cast-In-Place Concrete Provide new Exterior Steps	2.0	EA	\$ 1,500.	n e	3,000	
	Provide new Exterior Steps Provide modifications / improvements to ADA ramp for code compliance	1.0	EA	\$ 1,500. \$ 2,500.			
	Subtotal Cast-In-Place Concrete						\$5
04 20 00	Unit Masonry				_		
04 20 00	Envelope						
	Masonry cleaning & Sealing Restoration at Spalled bricks - Allowance	425	SF	\$ 7. \$ 1,000.	50 \$		
		1	10	φ 1,000.	φ	1,000	\$ 4
	Subtotal Unit Masonry						\$ 4
05 50 00	Metal Fabrications		10			0.000	
	ADA Railing @ Entry Ramp Subtotal Metal Fabrications	1	LS	\$ 3,300.	JU \$	3,300	\$ 3
06 10 00	Rough Carpentry Sistering Floor Joists - Crawlspace access	1,240	LF	\$ 15.	00 \$	18,600	
	Subtotal Rough Carpentry						\$ 18
06 20 00	Finish Carpentry						
00 20 00	Exterior Finish Carpentry & Trims - installed						
	Exterior door replacements - Exterior trims Exterior Window replacements - Exterior trims	51 270	LF LF		50 \$ 00 \$		
	Exterior Louver - 24" round - Remove & replace with new trims	3	EA		0 \$		
	Exterior Louver - 2.5' x 6' round - Remove & replace with new trims	6	EA	\$ 795.	00 \$	4,770	
	Interirior Finish Carpentry & Millwork						
	Exterior door replacements - Interior trims Base cabinet with Solid surface top	51 24	LF LF		50 \$ 00 \$		
	Plam uppers	18	LF		00 \$		
	Subtotal Finish Carpentry						\$ 27
07 50 00	Roofing						
	Asphalt shingle roof - Rip and replace with Ice & Water Shield	2,183	SF		50 \$		
	Gutters and leaders - Remove & replace Leaders - Remove & replace	128 140			00 \$ 00 \$		
	Splash blocks -	8	EA	\$ 325.	00 \$		
	Snow guards -	< no	ot includ	ied >			
	Subtotal Roofing						\$ 43
07 92 00	Joint Sealants				-		
	Caulking & Sealants	1	LS	\$ 1,500.	00 \$	1,500	
	Subtotal Joint Sealants						\$ 1
08 10 00	Hollow Metal / Wood Doors & Frames Exterior metal door, frame and hardware replacement	3	EA	\$ 2,500.	n *	7,500	
	Install frame	3	EA	\$ 120.	00 \$	360	<u> </u>
	Install Door leaf	3	EA	\$ 90.	00 \$		
	Subtotal Hollow Metal / Wood Doors & Frames				_		\$ 8
	Windows Remove & Replace with single hung energy efficient windows 3x5	225	SF	\$ 95	00 \$	21,375	
08 50 00		225		- 35.	φ	21,010	\$ 21
08 50 00	Subtotal Windows						
08 50 00 09 21 00							
	Subtotal Windows Sypsum Board Assemblies None identified	<	Exclude	d >			*
	Gypsum Board Assemblies	<	Exclude	d >			\$
	Gypsum Board Assemblies None identified Subtotal Gypsum Board Assemblies	< 1			10 \$	5 10,437	\$

923 Saybrook Road - Concept Estimate



	Element / Description	Quantity	Unit	Unit	Rate (\$)	Extension (\$	5)	Subtotal (\$)
09 65 00	Resilient Flooring							
	Vinyl Sheet Flooring - installed	2,112	SF	\$	6.75			
	Resilient Base 4" vinyl Floor Prep - Resilient	345	LF	\$ \$	3.45			
	Subtotal Resilient Flooring	2,112	SF	φ	0.75	φ Ι,ΰ		\$ 17,0
09 91 00	Painting & Wallcoverings Painting - walls & Ceilings - repair work only & Touch up allowance	1	LS	\$	2,500.00	\$ 2,5	:00	
	Painting Exterior trims and siding - Repair work only	1		\$	1,500.00		500	
	Paint Doors and Frames (new)	3		\$	80.00		240	
	Vinyl Wallcoverings		Exclude		00.00	ψ 2	.40	
	Digital Wallcoverings		Exclude					
	Subtotal Painting & Wallcoverings							\$ 4,2
10 28 00	Toilet Accessories							
10 20 00	TR Accessories - PT Dispenser	3	EA	\$	175.00	\$ 5	525	
	TR Accessories - Grab Bars	6	EA	\$	95.00		570	
	TR Accessories - Lav Guard	2	EA	\$	295.00	\$ 5	590	
	TR Accessories - Electric Hand Dryers		< N/A >					
	TR Accessories - Soap dispensers	3	EA	\$	95.00		285	
	TR Accessories - Mirrors	2	EA	\$	345.00		690	
	TR Accessories - Coat hooks	2	EA	\$	35.00	\$	70	
	TR Accessories - Custodial		< N/A >					
	TP Dispensers	2	EA	\$	65.00	\$ 1	30	
	Baby changing stations	1	EA	\$	765.00	\$ 7	65	
	Accessory Installation	21	EA	\$	30.00	\$6	630	
	Subtotal Toilet Accessories							\$ 4,3
11 30 00	Residential Appliances							
11 30 00	Refrigerator - ADA	1	EA	\$	2,350.00	\$ 2,3	50	
	Microwave - ADA	1	EA	\$	795.00		95	
	Range with oven - ADA	1	EA	\$	2,250.00			
	Dishwasher ADA	1	EA	\$	1,750.00			
	Residential range hood	1		\$	995.00		995	
	Subtotal Residential Appliances							\$ 8,
1 00 00	Fire Protection Fire Protection -Distribution							
	Fire Protection -Distribution Subtotal Fire Protection	< 1	Exclude	a >				\$
								•
22 00 00	Plumbing		5.4	•	4 050 00	^ 1	50	
	Welltrol pressure tank - remove and replace with new pressure switch	1	EA	\$	1,850.00			
	Pipe insulation - insulate existing exposed copper piping	460	LS	\$	7.25	\$ 3,3	35	
	Fixture - Sink and faucet Kitchen	1	EA	\$	1,595.00	\$ 1,5	95	
	Fixture - Sink and faucet - TR wall hung vitreous	2	EA	\$	1,100.00		200	
	Fixture - Water Closet	2	EA	\$	1,675.00	\$ 3,3	350	
	Fixture Rough-in	5	EA	\$	395.00	\$ 1,9	975	
	Fixture Rough-in & Connections - Kitchen	1	LS	\$	1,250.00	\$ 1,2		
	Subtotal Plumbing						-	\$ 15,
23 00 00	HVAC							
	Controls and Instrumentation - Provide programable t-stats foor existing equipment	1	LS	\$	2,500.00	\$ 2,5	500	
	Subtotal HVAC		20	Ŷ	2,000.00	Ψ 2,0		\$2,
26 00 00	Electrical							
	Lighting and Branch							
	Lighting		F 2	¢	005		80	
	Light Fixture 2x4 troffers	12	EA	\$	365.00			
	Light Fixture 2x4 troffers Light Fixture Recessed	7	EA	\$	225.00	\$ 1,5	575	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building	7 5	EA EA	\$ \$	225.00 295.00	\$ 1,5 \$ 1,4	75 75	
	Light Fixture 2x4 troffers Light Fixture Recessed	7	EA	\$	225.00	\$ 1,5 \$ 1,4	75 75	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking	7 5	EA EA	\$ \$	225.00 295.00	\$ 1,5 \$ 1,4	75 75	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch	7 5 2	EA EA EA	\$ \$ \$	225.00 295.00	\$ 1,5 \$ 1,4	75 75	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local	7 5 2 < Assu	EA EA EA	\$ \$ \$ isting >	225.00 295.00 5,500.00	\$ 1,5 \$ 1,4 \$ 11,0	575 175 000	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting to controls - local Occupancy Sensor - retrift to existing control	7 5 2 < Assu 10	EA EA EA Imes Ex	\$ \$ \$ isting > \$	225.00 295.00 5,500.00 550.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5	575 175 000	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controler / clock	7 5 2 < Assu 10 1	EA EA EA Imes E EA LS	\$ \$ sisting > \$ \$	225.00 295.00 5,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5	575 175 000	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring -	7 5 2 < Assu 10 1 < Assu	EA EA EA Imes Ex EA LS Imes Ex	\$ \$ disting > \$ \$ disting >	225.00 295.00 5,500.00 550.00 795.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 7	575 175 000 500 795	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting optimities (clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance	7 5 2 < Assu 10 1 < Assu	EA EA EA Imes E EA LS	\$ \$ disting > \$ \$ disting >	225.00 295.00 5,500.00 550.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 7	575 175 000 500 795	
	Light Fixture 2x4 troffers Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security	7 5 2 < Assu 10 1 < Assu	EA EA EA Imes Ex EA LS Imes Ex	\$ \$ disting > \$ \$ disting >	225.00 295.00 5,500.00 550.00 795.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 7	575 175 000 500 795	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refift to existing control Site lighting branch wiring - Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control & CCTV	7 5 2 10 1 4Assu 250	EA EA EA EA LS Imes E LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 5550.00 795.00 22.50	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 7 \$ 5,6	575 175 000 500 795 525	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controler / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance	7 5 2 < Assu 10 1 < Assu 250	EA EA EA EA LS Imes E LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 5550.00 795.00 22.50 10,000.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 7 \$ 5,6	575 175 000 500 795 525	
	Light Fixture 2x4 troffers Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices	7 5 2 < Assu 10 10 1 4 Ssu 250 1 < Assum	EA EA EA EA LS Imes E) LF LS es not r	\$ \$ disting > \$ \$ disting > \$ \$ \$ equired >	225.00 295.00 5,500.00 795.00 22.50 10,000.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 5,6 \$ 5,6 \$ 10,0	575 175 000 500 795 525	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controler / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance	7 5 2 (Assu 10 1 (Assu 250 2 50 4 4 ssum 4	EA EA EA EA LS Imes E LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 5550.00 795.00 22.50 10,000.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 5,6 \$ 5,6 \$ 10,0 \$ 10,0	575 175 000 500 795 525 525	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refift to existing control Site lighting to control e / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	7 5 2 (Assu 10 1 (Assu 250 2 50 4 4 ssum 4	EA EA EA EA LS Imes E2 LF LS es not r EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 550.00 795.00 22.50 10,000.00 3,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 5,6 \$ 5,6 \$ 10,0 \$ 10,0	575 175 000 500 795 525 525	
	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refift to existing control Site lighting to control e / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable	7 5 2 (Assu 10 1 (Assu 250 2 50 4 4 ssum 4	EA EA EA EA LS Imes E2 LF LS es not r EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 550.00 795.00 22.50 10,000.00 3,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 5,6 \$ 5,6 \$ 10,0 \$ 10,0	575 575 5000 5000 5000 595 525 525 5000 5000 5	\$ 78,
33 00 00	Light Fixture 2x4 troffers Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controler / clock Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable	7 5 2 (Assu 10 1 (Assu 250 2 50 4 4 ssum 4	EA EA EA EA LS Imes E2 LF LS es not r EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 550.00 795.00 22.50 10,000.00 3,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 5,5 \$ 5,6 \$ 5,6 \$ 10,0 \$ 10,0	575 575 5000 5000 5000 595 525 525 5000 5000 5	\$ 78,
33 00 00	Light Fixture 2x4 troffers Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refit to existing control Site lighting controls - local Occupancy Sensor - refit to existing control Site lighting controler / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Subtotal Electrical	7 5 2 (Assu 10 1 (Assu 250 2 50 4 4 ssum 4	EA EA EA EA LS Imes E2 LF LS es not r EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 550.00 795.00 22.50 10,000.00 3,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 11,0 \$ 11,0 \$ 11,0 \$ 10,0 \$ 5,6 \$ 7 \$ 5,6 \$ 5,6 \$ 10,0 \$ 14,0 \$ 14,0	575 175 100 500 795 525 000 000 000 000	\$ 78,
33 00 00	Light Fixture 2x4 troffers Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controls - local Occupancy Sensor - retrfit to existing control Site lighting controls - local Uphting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework Additional paving 3,000 sf - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface	7 5 2 (Assu 10 1 (Assu 250 1 (Assum 4 4 333	EA EA EA EA LS Imes E2 LF LS es not r EA EA SY	\$ \$ disting > \$ \$ \$ sequired > \$ \$ \$ \$ \$	225.00 295.00 5,500.00 795.00 22.50 10,000.00 3,500.00 3,500.00 80.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 11,0 \$ 5,5 \$ 7 \$ 5,6 \$ 5,6 \$ 14,0 \$ 14,0 \$ 14,0 \$ 5,6,6	575 175 175 175 175 175 175 175	\$ 78,
33 00 00	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refit to existing control Site lighting controls - local Occupancy Sensor - refit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control dor coupling & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework Additional paving 3,000 sf - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course Additional paving 3 additional parking spaces - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course	7 5 2 (Assu 10 10 1 (Assu 250 1 < Assum 4 4 4	EA EA EA EA LS Imes E2 LF LS es not r EA EA SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 795.00 22.50 10,000.00 3,500.00 3,500.00	\$ 1,5 \$ 1,4 \$ 11,0 \$ 11,0 \$ 5,5 \$ 7 \$ 5,6 \$ 10,0 \$ 14,0 \$ 14,0 \$ 14,0 \$ 26,6	575 175 175 175 175 175 175 175	\$ 78,
33 00 00	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Light fixture - Exterior @ Building Site light poles @ Parking Light fixture - Exterior @ Building Site light poles @ Parking Light fixture - Exterior @ Building Occupancy Sensor - refift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mount camera & cable Sitework Additional paving 3,000 sf - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface	7 5 2 (Assu 10 1 (Assu 250 1 (Assum 4 4 4 333 66	EA EA EA EA LS EA LS es not r EA EA SY SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 795.00 22.50 10,000.00 3,500.00 3,500.00 80.00	\$ 1,6 \$ 1,4 \$ 11,0 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,6 \$	575 175 000 500 500 500 525 525 500 500	\$ 78,
3 00 00	Light Fixture 2x4 troffers Light Fixture Recessed Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refit to existing control Site lighting controls - local Occupancy Sensor - refit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control dor coupling & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Sitework Additional paving 3,000 sf - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course Additional paving 3 additional parking spaces - assumes stripping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course	7 5 2 (Assu 10 1 (Assum 4 4 333 66 1	EA EA EA EA LS EA LS es not r EA EA SY SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.00 295.00 5,500.00 795.00 22.50 10,000.00 3,500.00 3,500.00 80.00	\$ 1,6 \$ 1,4 \$ 11,0 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,4 \$ 1,6 \$	575 175 000 500 500 500 525 525 500 500	\$ 78,

<u>Haddam Senior Center</u>	2112± SF GROSS - 923 Saybrook Road						
	Description	Quantity Unit					
Site							
Additional parking	3 spots & Signage						
Car parking Striping	8 spots 2 HC	10 total					
Asphalt Paving		3000 SF					
Exterior							
Gutters		128 LF					
Downspouts		10					
Splash block		8					
Asphalt shingle roof	30 year asphalt shingles	2183.5 SF					
Masonry cleaning	Chimney	193.6 SF					
Masonry cleaning	Foundation	210 LF					
Exterior Windows	Energy Efficient vinyl Single Hung W/Grid 5'x3'	15					
Exterior Doors	metal 6 Panel	2					
Exterior Doors	metal 2 Panel W/lite	1					
Exterior Louver	Tower Rectangle 2'-6" X 4'	6					
Exterior Louver	Circle 2' Dia	3					
Interior							
New Flooring	Vinyl Sheet Flooring	2112 SF					
New Base	4" Rubber	362 LF					
<u>Kitchen:</u>							
Base cabinets		24 LF					
Upper cabinets		18 LF					
ADA Refrigerator		1					
ADA Microwave		1					
ADA Residential Oven		1					
ADA Dishwasher		1					
Hood		1					
Ceiling ACT & Grid	2x2 Meeting Area	1470 SF					
Plumbing							
Toilets	Low Flow Water Saving Fixtures	2					
Faucets/sinks	Low Flow Water Saving Fixtures	2					
Insulate piping	All exposed copper Piping	460 LF					
New water well water storage tank	20 Gallon	1					
Faucets/Kitchen sinks	Low Flow Water Saving Fixtures	1					
Electrical							
New Lighting:	Throughout entire building	-					
2x4 Lay In Fixtures		12					
Recessed down lights Fixtures		7					
Exterior Lighting Fixtures		5					
/acancy Sensors		10					
Programable thermostats		3					
nterior Security Video Surveillance System		4					
Exterior Security Video Surveillance System		4					
Structural							
Additional Structure	Sistering of joist at crawlspace (deflection)	800 SF					
Repair concrete Stair Landing & Ramp							

Haddam Municipal Annex - Facilities Assessment upgrades

Jail Hill Road - Concept Estimate

Date: Tuesday, March 26, 2024







DATE:

3/26/2024

Basis Of Estimate

Basis of Estimate

Jail Hill Road - Concept Estimate

Introduction

PACS has been engaged by Antinozzi Associates Architects to provide a Cost Estimate.

Estimate is based on the Town of Haddam Facility Assessment Report draft for review dated January 31, 2024: • Estimate quantities are based on the Haddam Senior Center Quantities provided by Antinozzi

Associates (attached).

Quantities and Methodology

- The cost estimate is based on the measurement of quantities wherever possible.
- Where actual measurements are not used, parametric measurements are used in conjunction with previous but similar project benchmarks.
- PACS uses a wide range of standard measurement and quantifying methods that are common practice in the construction industry today.

Basis of Pricing

- a) The construction costs shown in this estimate represent the fair market value and are not intended to be a prediction of the lowest bid.
- b) The costs include: labor, material, equipment and the subcontractors overhead and profit. (Subcontractor's Mark Up)
- c) The cost of labor is based on local Prevailing wage rates for all trades.
- d) The construction rates used are based in "today's dollar" and an escalation allowance is included in the Estimate summary.
- e) Our pricing assumes competitive bidding on all elements of the construction work, assuming a minimum of three competitive bidders for all general contractors, subcontractors, materials and
- f) It is typical in our experience that if fewer bids are received or solicited, prices can be expected to be higher due to lack of competition.
- g) The subcontractor's mark ups include their own overhead, including the cost in the field as well as profit.
- h) PACS has priced this taking into account current market conditions, competition between trades and the cost fluctuations in the construction industry.
- i) Estimate assumes no Phasing required..
- j) Proposal is based on construction being performed on regular hours.

Jail Hill Road - Concept Estimate

Basis Of Estimate

Design and Pricing Contingency

A Design and Pricing Contingency is used as a budgetary tool that allows for scope and detail not defined during the design stage. As the design becomes more defined as the project passes through the design stages, the Design and Pricing Contingency decreases as more scope and detail is now being shown in the documents and is therefore reflected in the cost estimate as actual trade cost. The Design and Pricing Contingency is reduced to zero at 100% Bid Documents.

Escalation

As outlined above the estimate is calculated using rates that are "today's dollar" and reflect the cost of the project as if it was to bid on the date of issue. Due to construction projects having long design phases and long construction schedules, its is imperative to project the construction cost further ahead into the future to the point at which it is bid out. It is common practice to escalate the cost estimate to the mid point of construction to accommodate for economic inflation. This percentage accounts for this increase.

Construction Contingency

PACS advise that a Construction Contingency is carried for unforeseen project conditions and field changes. Typically we see this in the range of 3% to 5% dependent on the scope of the project.

Probable Cost

It is important for the Owner and Design team to carefully review this cost estimate including all line item descriptions, clarifications, exclusions, unit prices, assumptions, allowances, mark ups and contingencies to ensure the estimate reflects the scope of the project.

PACS has produced the cost estimate based on the widely practiced methods of cost estimating and aims to reflect the fair market value of the construction project. Our aim is to be not the highest or the lowest in the range of bids but to use our experience and expertise in the construction industry to provide the client with a degree of confidence that the project will be close to our calculated estimate.

Exclusions

This cost estimate excludes the following:

- Premiums for working in inaccessible or partially accessible spaces during construction
- Surplus Stock and Spares
- Premiums for restrictive and uncompetitive bidding
- Premiums for non-standard work times
- Work beyond the project limits
- CT Sales Tax Assumes Exempt
- Wellpoints Assumes open trench pumping only
- Rock or Unsuitable soils remediation
- Hazardous, Contaminated or Polluted soils
- Hazardous materials, abatement or associated restoration within the buildings
- AV Equipment / Technology Budget
- Utility Costs Electric, Gas, Water (assumes by Owner)

Risks to the Cost Estimate

Items that may affect the cost estimate, the list as follows but not limited:

- Changes to the design subsequent to the issue of the documents stated above which this estimate is based on
- Non Competitive Bid restrictions and the sole sourcing of products/materials from specific vendors
- Restrictive technical specifications that produce and non competitive environment
- Changes to the project schedule that delay the project and therefore have impact on cost
- Incomplete and poorly coordinated documentation
- Access restrictions, unidentified out of hours work policies and phasing restrictions
- Restrictive technical specifications that produce a non competitive environment
- Unforeseen and unknown Site conditions



DATE:

Haddam Municipal Annex - Facilities Assessment upgrades

Jail Hill Road - Concept Estimate



\$

552,314

\$234.83 \$

582,780

\$529.80

Road - Concept Estimate						
			Base Esti	mate	Addit	lion
Trade			Cost	Cost / SF	Cost	Cost / SF
01 50 00	Temporary Facilities and Controls	\$	35,280	\$ 15.00 \$	-	\$ -
02 41 19	Selective Demolition	\$	12,468	\$ 5.30 \$	-	\$ -
06 20 00	Finish Carpentry	\$	41,864	\$ 17.80 \$	-	\$-
07 50 00	Roofing	\$	26,720	\$ 11.36 \$	-	\$ -
07 92 00	Joint Sealants	\$	1,500	\$ 0.64 \$	-	\$ -
08 10 00	Hollow Metal Doors & Frames	\$	79,010	\$ 33.59 \$	-	\$ -
08 50 00	Windows	\$	16,438	\$ 6.99 \$	-	\$ -
09 91 00	Painting & Wallcoverings	\$	4,900	\$ 2.08 \$	-	\$ -
11 30 00	Residential Appliances	\$	8,645	\$ 3.68 \$	-	\$ -
13 00 00	Special Construction (1,100 sf Addition)	\$	-	\$ - \$	522,500	\$ 475.00
22 00 00	Plumbing	\$	20,780	\$ 8.84 \$	-	\$-
23 00 00	HVAC	\$	23,000	\$ 9.78 \$	-	\$ -
26 00 00	Electrical	\$	91,280	\$ 38.81 \$	-	\$ -
33 00 00	Sitework	\$	190,429	\$ 80.96 \$	60,280	\$ 54.80

TOTAL DIRECT COST



Haddam Municipal Annex - Facilities Assessment upgrades

Jail Hill Road - Concept Estimate

PACSE

			Base Esti	mate	Additic	on
Trade			Cost	Cost / SF	Cost	Cost / SI
TOTAL DIRECT COST (FROM PREVIOUS PAGE)		\$	552,314	\$234.83	\$ 582,780	\$529.80
Design & Estimating Contingency	10.00%	\$	55,231		\$ 42,064	
Escalation -	6.00%	\$	36,453		\$ 29,766	
General Conditions- (3 mos @ 25,000 / Month)	\$ 75000	\$	75,000		\$ 50,000	
Preconstruction - Assumes None		\$	-		\$ -	
GC Insurances	1.25%	\$	8,987		\$ 8,276	
GC Surety Bond	0.78%	\$	5,023		\$ 4,297	
GC Fee	5.00%	\$	32,200		\$ 27,546	
TOTAL CONSTRUCTION COST (DIRECT & INDIRECT COSTS)		\$	765,209	\$325.34	\$ 744,729	\$677.03
Bonding & Legal fees to Town	Excluded		Excluded		Excluded	
A&E Fees / Professional Services	7.00%	\$	53,565		\$ 52,131	
Commissioning agent	Excluded		Excluded		Excluded	
Owners Representative	Excluded		Excluded		Excluded	
Builders Risk Insurance - Town	Excluded	I	Excluded		Excluded	
Testing & Inspections	Excluded	I	Excluded		\$ 10,000	
Building Permit - Assumes waived	Excluded	I	Excluded		Excluded	
Moving & Relocation costs	Excluded	I	Excluded		Excluded	
			Excluded		Excluded	
FF&E (Furniture Fixtures and Equipment)	Excluded					
-	Excluded		Excluded		Excluded	
FF&E (Furniture Fixtures and Equipment)		I	Excluded Excluded		Excluded Excluded	
FF&E (Furniture Fixtures and Equipment) State Permit 0.26%	Excluded					
FF&E (Furniture Fixtures and Equipment) State Permit 0.26% A/V Systems - Assumes in FF&E	Excluded Excluded		Excluded		Excluded	

Haddam Municipal Annex - Facilities Assessment upgrades

Jail Hill Road - Concept Estimate





1	Element / Description	Quantity	Unit	Unit Ra	(•/	Extension (\$)	Ju	ototal (\$)
01 50 00	Temporary Facilities and Controls							
01 30 00	Temporary Site Services - GC Bid (minimal)	2,352	SF	\$	15.00	\$ 35,280		
	Subtotal Temporary Facilities and Controls						\$	35,28
02 11 00	Contaminated Soil Excavation & Disposal							
	Assumes not required	<	Exclude	d >			\$	
	Subtotal Contaminated Soil Excavation & Disposal						ې ب	-
02 12 00	Transportation/Disposal of Contaminated Materials							
02 12 00	Assumes not required	<	Exclude	d >				
	Subtotal Transportation/Disposal of Contaminated Materials						\$	-
02 80 00	Hazardous Abatement			1.				
	Assumes not required Subtotal Hazardous Abatement	<	Exclude	d >			\$	-
	Subtotal Hazardous Abatement						ş	-
02 41 16	Building Demolition							
	Assumes not required	<	Exclude	d >				
	Subtotal Building Demolition						\$	-
02 41 19		1 005 0	05	•	0.05			
	Remove vinyl siding and prep for new	4,225.0	SF	\$	2.25			
	Demo existing plumbing fixtures - prep for replacement	5.0	EA	\$	75.00			
	Demo existing lighting - prep for replacement	2,352.0	SF	\$	1.10	\$ 2,587		
	Subtotal Selective Demolition						\$	12,46
02 20 00	Cast In Blass Constate							
03 30 00	Cast-In-Place Concrete None identified	< n	ot incluc	ed >		<u> </u>		
	Subtotal Cast-In-Place Concrete	*11				<u> </u>	\$	-
							· ·	
04 20 00								
	None identified	< n	ot incluc	ed >				
	Subtotal Unit Masonry						\$	-
05 50 00	Metal Fabrications							
	None identified	< n	ot incluc	ed >				
	Subtotal Metal Fabrications						\$	-
06 10 00	Rough Carpentry None identified	~ ~ ~	at in alus	od >				
	Subtotal Rough Carpentry	\$11	ot incluc	eu >			\$	-
							Ψ	
06 20 00	Finish Carpentry							
	Exterior Finish Carpentry & Trims - installed							
	Exterior door replacements - Exterior trims	34	LF	\$	17.50	\$ 595		
	Exterior Window replacements - Exterior trims N/A - Vinyl trims with siding			equired >				
	Exterior vinyl calpboard siding	4,225	SF	\$	7.95	\$ 33,589		
	Interirior Finish Carpentry & Millwork							
	Exterior door replacements -Interior trims			equired >				
	Base cabinet with Solid surface top			\$	395.00			
	Plam uppers	12	LF	\$	245.00	\$ 2,940		
	Subtotal Finish Carpentry						\$	41,86
07 50 00	Boofing							
07 50 00	Roofing Asphalt shingle roof - Ri and replace with Ice & Water Shield	1,200	SF	\$	14.50	\$ 17,400		
	Gutters and leaders - Remove & replace	80	LF	\$	35.00		1	
	Leaders - Remove & replace	112	LF	\$	35.00			
	Splash blocks -	8		\$	325.00	\$ 2,600		
	Snow guards -	< n	ot includ	ed >				
	Subtotal Roofing					1	\$	26,72
							-	
07 92 00	Joint Sealants							
	Caulking & Sealants	1	LS	\$ 1	,500.00	\$ 1,500		
	Subtotal Joint Sealants						\$	1,50
08 10 00	Hollow Metal / Wood Doors & Frames							
00 10 00	Interior door, frame and hardware replacement	26	EA	\$ 2	2,500.00	\$ 65,000		
	Storefront door	1			3,750.00			
	Install frame	26			120.00	\$ 3,120		
	Install Door leaf	26		\$	90.00			
	Door Operator - Electric	1	LS	\$ 4	,800.00	\$ 4,800		
	Subtotal Hollow Metal / Wood Doors & Frames						\$	79,01
08 50 00	Windows						1	
	Remove & Replace with single hung energy efficient windows	213	SF	\$	65.00	\$ 13,813		
	Storefronts	35	SF	\$	75.00			
	Subtotal Windows						\$	16,43
09 21 00	Gypsum Board Assemblies						-	
	None identified	< Assum	es not r	equired >			1	
	Subtotal Gypsum Board Assemblies						\$	-
09 51 00								
	Ceilings - ACT 2x2 Tegular edge	< Assum	es not r	equired >				
	Subtotal Acoustical Ceiling						\$	-

Jail Hill Road - Concept Estimate



09 65 00	Resilient Flooring								total (\$
	Vinyl Sheet Flooring - installed	< Assum	es not i	equired	>				
	Resilient Base 4" vinyl	< Assum							
	Floor Prep - Resilient	< Assum	es not i	equired	>			\$	
	Subtotal Resilient Flooring							ş	
9 91 00	Painting & Wallcoverings								
	Painting - walls & Ceilings - repair work only & Touch up allowance	1		\$	2,500.00	\$	2,500		
	Painting Exterior trims and siding - Repair work only	< Assum							
	Paint Doors and Frames (new)	26			80.00 80.00		2,080 320		
	Paint large bollards Vinyl Wallcoverings		EA		80.00	¢	320		
	Digital Wallcoverings		Exclude						
	Subtotal Painting & Wallcoverings			-				\$	4,
0 28 00	Toilet Accessories TR Accessories - PT Dispenser	< Assum	es not i	oquired '					
	TR Accessories - Frabenser	< Assum							
	TR Accessories - Lav Guard	< Assum							
	TR Accessories - Electric Hand Dryers	< Assum	es not i	equired	>				
	TR Accessories - Soap dispensers	< Assum							
	TR Accessories - Mirrors	< Assum							
	TR Accessories - Coat hooks TR Accessories - Custodial	< Assum < Assum							
	TP Dispensers	< Assum < Assum				-			
	Baby changing stations	< Assum				1			
	Accessory Installation	< Assum							
	Subtotal Toilet Accessories							\$	
4 00 0-									
1 30 00	Residential Appliances Refridgerator - ADA	1	EA	\$	2,350.00	¢	2.350		
	Kerriogerator - ADA Microwave - ADA	1	EA	\$	2,350.00		2,350		
	Deep Freeze- ADA	3	EA	\$	1,250.00		3,750		
	Dishwasher ADA	1		\$	1,750.00		1,750		
	Residential range hood	< [Exclude						
	Subtotal Residential Appliances							\$	8,
	Par Barta das								
00 00	Fire Protection Fire Protection -Distribution	~ 1	Exclude	d >		-			
	Subtotal Fire Protection	~ [<u>.</u>				\$	
								-	
2 00 00	Plumbing			¢	1 050 55	¢	1.0-1		
	Welltrol pressure tank - remove and replace wih new pressure switch	1		\$	1,850.00		1,850		
	Pipe insulation - insulate exising exposed copper piping	320	LF	\$	7.25	1	2,320		
	Fixture - Sink and faucet Kitchen	1	EA	\$	1,595.00		1,595		
	Fixture - Sink and faucet - TR wall hung vitreous	3	EA	\$	1,100.00		3,300		
	Fixture - Water Closet	3	EA EA	\$ ¢	1,675.00		5,025		
	Fixture - Urinal Fixture - Mop Sink	1	EA	\$ \$	1,425.00		1,425 1,250		
	Fixture - wop Sink	7	EA	э \$	395.00		2,765		
	Fixture Rough-in & Connections - Kitchen	. 1	LS	\$	1,250.00		1,250		
	Subtotal Plumbing							\$	20,
3 00 00	HVAC								
	Controls and Instrumentation - Provide programable t-stats foor existing equipment	4	EA	\$	750.00		3,000		
	Heat recovery ventilator - Allowance Subtotal HVAC	2	EA	\$	10,000.00	\$	20,000	s	23.
								Ŷ	20,
6 00 00	Electrical								
	Lighting and Branch								
	Lighting and Branch Lighting								
	Light Fixture 2x4 troffer lay-in				365.00	\$	7.005		
		21	EA	\$		1.1	7.000		
	Light Fixture 2x4 surface mounted	21	EA EA	\$ \$	365.00	\$	7,665 7,665		
	Light Fixture 2x4 surface mounted Light Fixture Wall mounted wet location Light Fixture - Exterior @ Building	21 4 < Assum	EA EA es not i	\$ \$ equired	365.00 425.00		7,665		
	Light Fixture 2x4 surface mounted Light Fixture Wall mounted wet location	21 4	EA EA es not i	\$ \$ equired	365.00 425.00		7,665		
	Light Fixture 2x4 surface mounted Light Fixture Wall mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking	21 4 < Assum	EA EA es not i	\$ \$ equired	365.00 425.00		7,665		
	Light Fixture 2x4 surface mounted Light Fixture Wall mounted wet location Light Fixture - Exterior @ Building	21 4 < Assum < Assum	EA EA es not i es not i	\$ \$ equired	365.00 425.00 >	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture Vall mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control	21 4 < Assum < Assum < Assu 20	EA EA es not i es not i umes E EA	\$ equired required kisting > \$	365.00 425.00 > 550.00	\$	7,665		
	Light Fixture 2x4 surface mounted Light Fixture - Xx4reior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controller / clock	21 4 < Assum < Assum < Assu 20 < Assum	EA EA es not i es not i umes E EA es not i	\$ equired required kisting > \$ required	365.00 425.00 > 550.00	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture - Xx4roir @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrft to existing control Site lighting controller / clock Lighting branch wring -	21 4 < Assum < Assum 20 < Assum < Assum < Assum	EA EA es not i es not i umes E EA es not i umes E	\$ equired required xisting > \$ equired xisting >	365.00 425.00 > 550.00	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture - Xx4reior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controller / clock	21 4 < Assum < Assum < Assu 20 < Assum	EA EA es not i es not i umes E EA es not i umes E	\$ equired required xisting > \$ equired xisting >	365.00 425.00 > 550.00	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lightfing Device Branch Lighting Ontrols - local Occupancy Sensor - refrit to existing control Site lighting tranch writing - Lighting branch writing - Lighting branch writing & Conduits - site light poles allowance	21 4 < Assum < Assum 20 < Assum < Assum < Assum	EA EA es not i es not i umes E EA es not i umes E	\$ equired required xisting > \$ equired xisting >	365.00 425.00 > 550.00	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture - Xx4roir @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrft to existing control Site lighting controller / clock Lighting branch wring -	21 4 < Assum < Assum 20 < Assum < Assum < Assum	EA EA es not i es not i umes E EA es not i umes E es not i	\$ equired equired kisting > \$ equired equired	365.00 425.00 > 550.00	\$	7,665 1,700		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lightfing Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controler / clock Lighting branch wring 4 Conduits - site light poles allowance	21 4 < Assum < Assum 20 < Assum < Assus < Assus < Assus	EA EA es not i es not i umes E EA es not i umes E es not i	\$ equired equired kisting > \$ equired equired	365.00 425.00 > 550.00 >	\$	7,665 1,700 11,000		
	Light Fixture 2x4 surface mounted Light Fixture Vx4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security	21 4 < Assum < Assum 20 < Assum < Assus < Assus < Assus	EA EA es not i es not i umes E EA es not i umes E es not i	\$ equired equired kisting > \$ equired equired	365.00 425.00 > 550.00 >	\$	7,665 1,700 11,000		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lightfing Device Branch Lighting controls - local Occupancy Sensor - retrifit to existing control Site lighting controler / clock Lighting branch wring 4 Conduits - site light poles allowance	21 4 < Assum < Assum 20 < Assum < Assus < Assus < Assus	EA EA es not i es not i umes E EA es not i umes E es not i LS	\$ equired : equired : kisting > \$ equired : kisting > equired : \$	365.00 425.00 > 550.00 >	\$	7,665 1,700 11,000		
	Light Fixture 2x4 surface mounted Light Fixture Vx4 surface mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting Device Branch Lighting Controls - local Occupanty Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control & CCTV Control panels , licenses and programming allowance Access control door roughing & devices	21 4 < Assum < Assum 20 < Assum < Assum < Assum 1	EA EA es not i es not i EA es not i umes E es not i LS ES es not i	\$ sequired a required a stating > sequired a stating > required a s sequired a s sequired a s	365.00 425.00 > 550.00 > 1,750.00 10,000.00	\$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Light fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refrit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door oroughing & devices Exterior wall mount camera & cable	21 4 < Assum < Assum 20 < Assum < Assum 1 1 4 Ssum 8	EA EA es not i es not i EA es not i LS Es not i EA	\$ sequired 3 equired 3 equired 3 sequired 3 sequired 3 sequired 3 s equired 3 s equired 3 s sequired 3 s s s s s s s s s s s s s s s s s s s	365.00 425.00 > 550.00 > 1,750.00 10,000.00 > 2,250.00	\$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		
	Light Fixture 2x4 surface mounted Light Fixture Vall mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Scentrity Control and to or orgining & devices Access control door roughing & devices Exterior wall mount camera & cable	21 4 4 < Assum < Assum 20 < Assum < Assum Assum 1 1 < Assum 8 8 8	EA EA es not i es not i umes E EA es not i LS Es not i EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Light fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refrit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door oroughing & devices Exterior wall mount camera & cable	21 4 < Assum < Assum 20 < Assum < Assum 1 1 4 Ssum 8	EA EA es not i es not i umes E EA es not i LS Es not i EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 > 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refir to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control & CCTV Control panels _, licenses and programming allowance Access Control doc CTV Control panels _, licenses and programming allowance Exterior wall mount camera & cable Interior wall mounted camera & cable Interior wall mounted camera & cable Install new intrusion detection system	21 4 4 < Assum < Assum 20 < Assum < Assum Assum 1 1 < Assum 8 8 8	EA EA es not i es not i umes E EA es not i LS Es not i EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		
	Light Fixture 2x4 surface mounted Light Fixture Vall mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Scentrity Control and to or orgining & devices Access control door roughing & devices Exterior wall mount camera & cable	21 4 4 < Assum < Assum 20 < Assum < Assum Assum 1 1 < Assum 8 8 8	EA EA es not i es not i umes E EA es not i LS Es not i EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		91.
	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refir to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control & CCTV Control panels _, licenses and programming allowance Access Control doc CTV Control panels _, licenses and programming allowance Exterior wall mount camera & cable Interior wall mounted camera & cable Interior wall mounted camera & cable Install new intrusion detection system	21 4 4 < Assum < Assum 20 < Assum < Assum Assum 1 1 < Assum 8 8 8	EA EA es not i es not i umes E EA es not i LS Es not i EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000	\$	91,
3 00 00	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refir to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control & & CCTV Control panels _, licenses and programming allowance Access control docrouphing & devices Exterior wall mounted camera & cable Interior wall mounted camera & cable Install new intrusion detection system	21 4 4 < Assum < Assum 20 < Assum < Assum Assum 1 1 < Assum 8 8 8	EA EA es not i umes E EA es not i umes E EA es not i LS ES not i EA ES EA EA EA EA	\$ equired a s equired a \$ \$ \$ equired a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 2,250.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000		91.
3 00 00	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lightfing Device Branch Lighting Device Branch Lighting controls - local Occupancy Sensor - refift to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door organing & devices Exterior wall mounted camera & cable Interior wall mounted camera & cable Install new intrusion detection system	21 4 < Assum < Assum 20 < Assum < Assum 1 1 < Assum 8 8 8 1	EA EA es not i umes E EA es not i umes E EA es not i LS ES not i EA EA LS	\$ sequired capacity of the sequired seq	365.00 425.00 > 550.00 > 1,750.00 10,000.00 2,250.00 5,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000 18,000 5,500	\$ 	91,
3 00 00	Light Fixture 2x4 surface mounted Light Fixture Vall mounted wet location Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refit to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Access Control &CCTV Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mounted camera & cable Interior wall mounted camera & cable Install new intrusion detection system Subtotal Electrical Sitework Re-pave 14,650 sf - assumes stipping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface	21 4 4 < Assum < Assum < Assum < Assum < Assum 1 1 < Assum 8 8 1 1 1,628 1	EA EA es not i mess E EA EA EA ES ES ES ES ES ES ES ES ES ES ES ES ES	\$ \$ equired : \$ \$ equired : \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 5550.00 > 1,750.00 2,250.00 2,250.00 5,500.00 5,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000 18,000 18,000 18,000 130,222 750	5 5	91
3 00 00	Light Fixture 2x4 surface mounted Light Fixture Vx4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting Device Branch Lighting controls - local Occupancy Sensor - refir to existing control Site lighting controller / clock Lighting branch wiring - Security Safety & Security Safety & Security Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Interior wall mounted camera & cable Interior wall mounted camera & cable Sitework Re-pave 14,650 sf - assumes stipping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface Stump removal Add sidewalks - Concrete new	21 4 4 < Assum < Assum < Assum < Assum < Assum < Assum 1 1 < Assum 8 8 1 1 1,628 1 1,100	EA EA Es not i Imes E EA ES ES ES ES ES ES ES ES ES ES ES ES ES	\$ \$ equired equired eq	365.00 425.00 > 550.00 > 1,750.00 2,250.00 2,250.00 5,550.00 80.00 750.00 12.95	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 11,000 10,000 18,000 18,000 18,000 18,000 13,0222 750 14,245	\$ 	91,
3 00 00	Light Fixture 2x4 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting controls - local Occupancy Sensor - refir to existing control Site lighting controller / clock Lighting branch wiring - Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Socurity Security Access Control & CCTV Control panels _, licenses and programming allowance Access control docroughing & devices Exterior wall mounted camera & cable Interior wall mounted camera & cable Interior wall mounted camera & cable Interior wall mounted camera & cable Stework Re-pave 14,650 sf - assumes stipping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface Stump removal Add sidewalks - Concrete new Add sidewalks - Bituminous	21 4 4 Assum < Assum < Assum < Assum < Assum 1 1 < Assum 8 8 8 1 1 1,628 1 1,100 400	EA EA EA Es not n EA EA ES not n ES ES not n EA EA EA EA EA EA EA ES SF SF	\$ \$ equired equired for a second equired equir	365.00 425.00 > 550.00 > 1,750.00 2,250.00 2,250.00 5,500.00 750.00 750.00 72.95 7.95	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 11,000 18,000 18,000 5,500 130,222 750 14,245 3,180	\$ \$	91,
3 00 00	Light Fixture 2x4 surface mounted Light Fixture V44 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting Device Branch Lighting ontrols - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Control panels , licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Install new intrusion detection system Subtotal Electrical Sitework Re-pave 14,650 sf - assumes stipping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface Starp removal Add sidewalks - Bituminous Remove and replace spalled concrete	21 4 4 Assum < Assum < Assum < Assum < Assum 1 1 < Assum 8 8 8 1 1 1,628 1 1,100 400 1,110	EA EA EA EA Umes E EA EA ES ES ES ES ES ES ES F SF	\$ \$ equired : \$ sisting > \$ equired : \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	365.00 425.00 > 550.00 > 1,750.00 2,250.00 2,250.00 2,250.00 5,500.00 750.00 12.95 7.95 15.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 1,750 10,000 18,000 18,000 18,000 18,000 130,222 750 14,245 3,180 16,650	5 5	91,
3 00 00	Light Fixture 2x4 surface mounted Light Fixture V44 surface mounted Light Fixture - Exterior @ Building Site light poles @ Parking Lighting Device Branch Lighting Device Branch Lighting Device Branch Lighting controls - local Occupancy Sensor - retrift to existing control Site lighting controller / clock Lighting branch wiring & Conduits - site light poles allowance Equipment power Power to door operator Safety & Security Security Security Access Control &CCTV Control panels , Licenses and programming allowance Access control door roughing & devices Exterior wall mount camera & cable Instail new intrusion detection system Subtotal Electrical Sitework Re-pave 14,650 sf - assumes stipping, subgrading, export of spoils, 8" sub-base, 6" base, 1.5" base course and 1.5" surface Stump removal Add sidewalks - Concrete new Add sidewalks - Biltuminous Site concrete mechanical pad	21 4 4 < Assum < Assum 20 < Assum < Assum < Assum 1 1 < Assum 8 8 1 1 (Assum 1 1 (Assum 1 1 (Assum 1 1 (Assum) 1 (Assum) (As	EA EA EA EA ST EA EA EA ES ES ES ES ES F SF SF	\$ \$ equired cequired disting > cequired disting > cequired disting > s s s s s s s s s s s s s s s s s s s	365.00 425.00 > 550.00 > 10,000.00 2,250.00 2,250.00 5,500.00 750.00 12.95 7.95 15.00 25.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,665 1,700 11,000 11,000 10,000 18,000 18,000 5,500 130,222 750 14,245 3,180 16,650 1,500	\$	91,
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<u>Haddam Annex</u>	2352± SF GROSS - 11 Jail Hill Road	
Site		
Repair Retaining wall	Field stone 4'H	68 LF
Asphalt paving		14650 SF
Car parking Striping ADA		3 Spots
Car parking Striping		13 Spots
Concrete Sidewalks	6'W	1100 SF
Asphalt paving sidewalk	5'W	400 SF
Exterior		
Gutters		80 LF
Downspouts		8
iplash block		8
Asphalt shingle roof	30 year asphalt shingles	1200 SF
lew Vinyl Clapboard	6" Horz	4224 SF
Exterior Windows	Energy Efficient Vinyl Single Hung 2'-6"WX3'H	11
Exterior Windows	Energy Efficient Vinyl Single Hung 2'-'6WX4'H	11
Exterior Windows	Energy Efficient Vinyl Single Hung 1'WX5'H	4
Exterior Doors Store front	4-1/2" D 7'H x 5' W 3'-0"W Door	4
exterior Door W/ Lite	4-1/2 D / H x 5 W 3-0 W Door Flush Door 3'x7'	1
exterior Door wy Lite	Flush Door 3'x7'	1
	3' Wide	1
Stump Removal Paint Large Bollards	3' Wide Concrete 4'H	4
nterior		
<u>Kitchen:</u>		
Base Cabinets		12 LF
Jpper cabinets		12 LF
ADA Refrigerator		1
ADA Microwave		1
ADA Deep Freeze		3
ADA Dishwasher		1
Doors & hardware Second Floor		12
Wood Flush Doors & Hardware First Floor		14
Plumbing		
Jrinal	Low Flow Water Saving Fixtures	1
Toilets	Low Flow Water Saving Fixtures	3
aucets/sinks	Low Flow Water Saving Fixtures	3
nsulate piping	All exposed copper Piping	320 LF
New water well water storage tank	20 Gallon	1
aucets/Kitchen sinks	Low Flow Water Saving Fixtures	1
Nop Sink		1
<u>Mechanical</u>		
Energy Recovery Unit		1
lectrical		
New Lighting:	Throughout entire building	
x4 Lay In Fixtures		21
Vall mounted	Wet locations	4
X4 Surface Mounted		21
DA push button Assembly	Entry Door	1
acancy Sensors		20
rogramable thermostats		4
nterior Security Video Surveillance System		8
xterior Security Video Surveillance System		8
tructural		
	Cracking and Surface spalling and cracks at the	
ite retaining wall	railing embedment	40 LF
Concrete Mechnical Pad	10'X 6'	60 SF
xterior Concrete Sidewalk	Cracking and spalling of the concrete 6'W	185 LF

8.0 Options & Recommendations

Options

As noted throughout this report, the existing Town Buildings, although sound in structure, present multiple issues ranging from typical upkeep items (windows, doors, roofs) to programmatic needs. In addition to these needs is the effort to adapt and re-use the former Haddam Elementary School (HES) for use with Town Offices, either in part or in its entirety.

The two schematic designs presented in Part 6 of this report can provide the Town with several options on moving forward:



SELECT TOWN OFFICES TO OCCUPY HES WITH OTHER USES

This option would see several Town offices move into the west wing of the HES. The east wing would be developed and occupied by an outside source. The central location in Town is ideal for the Community and Senior Centers, and the large Multi-Purpose Room would provide ample space for activities. Bringing in the Registrar of Voters and the State Troopers to this location would also make great use of the space. The Town Building, Old Town Hall, and the Municipal Annex would all remain in their respective buildings.

- Community Center
- Senior Center
- Registrar of Voters
- State Troopers
- Other uses

COSTS = \$ 9,500,000



ALL TOWN OFFICES TO OCCUPY HES

This option would bring all the Town offices to one central location, occupying the entirety of the HES. The advantage to this scheme would be bringing all Town functions under one roof in a central location to the Town. However, this would then leave five Town buildings unoccupied. This, along with the costs to renovate the HES for new occupants, may make this option objectionable.

- Town Office Building
- Old Town Hall
- Community Center
- Senior Center
- Municipal Annex

8.1 Options & Recommendations

Six Town Buildings Facility Assessment

- Registrar of Voters
- State Troopers

COSTS = \$31,970,000

RENOVATE EXISTING / EXPAND BUILDINGS

This option would have no Town functions move to HES and all Town offices would remain in their respective buildings. Renovations would be done to each building as described in the report, providing new windows, doors, roofs, etc., to ensure these structures last another 30 years. In addition to the renovations, each building would be expanded to meet the requirements of the programmatic assessments.

- Community Center
- Senior Center
- Registrar of Voters
- State Troopers
- Other uses
- COSTS = \$9,834,660

8.1 Options & Recommendations

Six Town Buildings Facility Assessment

Recommendations



- Community Center, Senior Center, Registrar of Voters, and State Trooper to move into the HES.
- The Town Office Building, Old Town Hall and Municipal Annex are to be renovated per report recommendations regarding typical upkeep items (windows, doors, roofs, etc.), newer and more efficient mechanical and electrical equipment, and newer/updated finishes.



- Community Center, Senior Center, Registrar of Voters, and State Trooper to move into the HES.
- The Town Office Building, Old Town Hall and Municipal Annex are to be renovated per report recommendations regarding typical upkeep items (windows, doors, roofs, etc.), newer and more efficient mechanical and electrical equipment, and newer/updated finishes.
- The Town Office Building, Old Town Hall and Municipal Annex are also to be added on to in order to meet the necessary programmatic requirements for each department.



- Community Center, Senior Center, Registrar of Voters, and State Trooper to move into the HES.
- No work to be done on any other Town Buildings