

### ACCESSIBILITY STUDY FOR THE

### **DAVIS THAYER ELEMENTARY SCHOOL**



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Davis Thayer Elementary School Franklin, Massachusetts Supplemental Accessibility Study

## Introduction

### 1. Introduction

As a supplement to the previous Feasibility study, Kaestle Boos Associates was requested to evaluate the renovation of the Davis Thayer Elementary School limited to compliance with accessibility requirements. This supplemental study does not consider issues related to educational programming and the space use summary noted in the feasibility study.

Many of the existing building conditions noted in the previous Feasibility study are not resolved by renovations limited to accessibility, including:

- Sidewalk from School Street to separate driving and walking traffic,
- Structural issues with the condition of the exterior brick veneer and window lintels,
- Replacement of roof membrane,
- Abatement and replacement of interior finishes,
- Concerns regarding the Kitchen,
- Cafeteria/kitchen is undersized for the student population,
- The modular classrooms attached to the front of the original building are in disrepair,
- Classroom spaces in the existing building are undersized,
- Nurse's Office does not provide privacy for student cot space,
- Aging mechanical, electrical, and plumbing near the end of its intended life.

As a result of this study, it is determined that compliance with AAB cannot be limited to simple renovation of each non-compliant condition or space. In fact, renovations necessary for compliance affect other areas of the building as adjacent spaces are displaced because of enlargement or relocation necessary to bring existing spaces into compliance. A conceptual design scheme for limited accessibility renovations of the existing building was developed and reviewed with the Committee. Floor plans which provide the basis for the Schematic Construction Cost Estimate and Opinion of Probable Cost are included in this study. To illustrate this, conceptual floor plans are presented in two formats:

- 1. the first format shows existing conditions floor plans with pink overlay to illustrate the areas of the existing building which will be affected by renovations necessary for compliance;
- 2. the second format shows the recommended modifications for compliance and relocated spaces shown in green overlay.

An Opinion of Probable Cost (OPC) for the proposed conceptual design is included in the study and follows this Executive Summary. An Opinion of Probable Cost is based on the Schematic Construction Cost Estimate but further includes all soft costs for design, permitting, furniture, etc. The total estimated OPC for the Proposed Conceptual Design is \$4,635,631. A detailed Schematic Cost estimate is also included in the study.

## Davis Thayer Elementary School Franklin, Massachusetts Supplemental Accessibility Study

## Accessibility Code Compliance Analysis

- a. Applicability
- b. Evaluation of Existing Conditions
- c. Recommendations

### 2. ACCESSIBILITY CODE COMPLIANCE ANALYSIS (521 CMR AAB)

### a. Applicability

As a supplement to this study, Kaestle Boos Associates was requested to evaluate the renovation of the Davis Thayer Elementary School limited to compliance with accessibility requirements. All code requirements of the Architectural Access Board (AAB) stated in the main study above are required as part of this supplemental evaluation. All renovations and additions must comply with the current Massachusetts State Building Codes. In addition, as the existing building is currently sprinklered, any renovations or additions to the school building are required to be sprinklered also, regardless of cost.

### **b.** Evaluation of Existing Conditions

This building was constructed in 1924, long before the Architectural Access Board issued accessibility regulations in 1968, and has impediments to accessibility throughout. Correction of some conditions to be compliant with current code requirements is simple with minimal effect on the existing building, such as adding accessible signage, while correction of other conditions is complex, such as relocating toilet rooms or adding an elevator, and will require extensive renovations. In summary, a general list of these issues follows:

- An accessible route is not provided to the Basement, Second Floor, and Third Floor levels or to many of the individual rooms throughout the building. Non-compliant conditions related to providing an accessible route which must be resolved are:
  - o Access to and egress from the building at all required entrances,
  - o Parking and loading zones,
  - o Access to play areas,
  - o Sidewalks and curb cuts,
  - o Access to the Basement, Second, and Third Floors,
  - o The underside of the stairs to the Basement is open under and protrudes more than 4 inches,
  - o Clearance at classroom doors and door hardware,
  - o Stair and corridor door widths,
  - o Cafeteria and Library door widths,
  - o Stair nosings, and
  - o Stair railings and guards.
- Toilet rooms fixtures, accessories, and clearances are not compliant.
- Signage throughout the building is not compliant.
- Drinking fountains are not compliant.
- Casework and sinks within classroom spaces is not compliant.
- Places of assembly do not have assistive listening systems,
- Cafeteria services are not at accessible heights.

As a result of evaluation of these issues, it is understood that corrective measures cannot be isolated to the specific areas of each condition. For example, providing access to toilet rooms will require increasing the

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size or, in some cases, relocating these rooms which will affect other rooms in the building. This domino effect has been considered in the evaluations and recommendations for correction of each condition to provide a solution that is the least intrusive on adjacent spaces.

### c. Recommendations

### **Accessible Routes:**

Providing an accessible route to, from, and throughout the building requires correction of many conditions and will require extensive renovations.

Outside of the building, accessible routes must be provided from public parking areas, to play areas, and at public entrances and exits. All public entrances and required exits to the building must be accessible and be on an accessible route. In this building, all four entrances will require accessibility. The entrance / exit at the modular classrooms and the rear entrance for the bus drop-off currently have accessible ramps, but ramps must be provided at the main entrance and at the entrance for the cafeteria. The Main Entrance to the building does not provide an accessible route. Modification to the main entrance and required means of egress doorways to provide accessible routes is necessary.

Currently, only two non-compliant accessible parking spaces and no loading/drop off spaces are provided. Three accessible spaces and a loading area must be provided on an accessible route with curb cuts from street to sidewalk. Access to the play areas must be provided to accessible elements of the play structures and to the playground. For this, an accessible path may be composed of wood chips or a synthetic paving material designed for exterior use.

Access to the Basement, Second, and Third Floors is not provided. As grade levels and specialty rooms, such as the gymnasium and media center, are distributed on floors other than the First floor, this does not allow for access by all children of all grade levels to classrooms and activities. A compliant elevator is required on an accessible route in all multistory buildings to provide access to all floor levels and activities. Extensive modifications to the building, including plumbing and fire protection service entrances at the basement foundation walls, are necessary to provide an elevator to access all floors of the building.

Accessible routes within the building generally comply with requirements for width, passing space, protruding objects, headroom, etc. Objects projecting from walls with their leading edges between 27 inches and 80 inches above the finished floor must not protrude more than 4 inches into walks, halls, corridors, passageways or aisle and must not have sharp edges. One area which is non-compliant, however, is the underside of the stairs in the corridor to the Gymnasium. This condition creates a non-compliant condition for a blind person as an obstruction above 12 inches above the floor. The underside of these stairs should be filled in with walls to remove this hazard.

### **Doors:**

Many doors within the building were modified during a previous renovation in 1979. Unfortunately, these renovations do not provide compliance with current code requirements. Classroom doors are constructed in recesses in the deep corridor walls and were set back about 15" from the face of the wall as part of the 1979 renovation. These doors do not provide the required pull side clearances beside the door strike edge (with the door handle). To provide this clearance, either the walls beside the door must be modified, the door must be moved to the corridor wall face, or an automatic operator (push button) must be added. The push button is not recommended as this electrified device requires ongoing maintenance and requires pulling force to open the door that may be difficult for young children. Moving the doors to their original position at the face of the corridor wall is also not recommended as these doors will then swing into the corridor obstructing egress and the passage of children through the corridor. Modification of the walls adjacent to these doors is the primary recommendation; however, the composition of these deep walls must be investigated at each location to be assured that concealed building elements, such as ductwork or piping, will not be affected.

Also, all interior doors require lever handles and push pad exit devices instead of the existing door knobs at classroom doors and crash bar panic devices on stair doors.

Door pairs at stairs and corridors have 32 inches wide leaves and do not provide the required exit width for compliance with accessibility requirements of the AAB or egress requirements of the Building Code. These doors should be replaced to provide door pairs with 36 inch wide leaves; in some cases, the doors must be moved and the walls will need to be rebuilt. Also, some rooms with door pairs are also too narrow, such as at the Library and the Cafeteria. These doors also should be rebuilt to provide door pairs with 36 inch wide leaves.

### **Stairs:**

Stair nosings are required to be angled or radiused so that these do not create an abrupt nosing on which a foot or crutch could be caught. All existing stair nosings have an abrupt protruding lip at each tread and all stair treads must to be modified to comply. Modification of the treads with vinyl tread covers is recommended to eliminate the abrupt nosing.

Stair handrails must be provided on both sides of the stair, must be continuous, and must have extensions at the top and bottom of the wall mounted rails. All stair railings need to be modified to comply with this handrail requirement. The wall mounted handrails do not have extensions at the top and bottom. Interior guardrails do not have handrails at all and guardrails are interrupted by newel posts so as not to provide a continuous rail.

### **Toilet Rooms:**

Existing toilet rooms do not comply with accessibility requirements and must be modified. Total fixture counts for these toilet rooms should comply with the requirements of the Plumbing Code discussed in the Existing Conditions portion of the Feasibility Study and should be distributed to serve the students, staff, and public occupancies in the building. However, as the clearance and mounting height requirements for accessible toilet fixtures for Elementary Schools (Grades K-3) differs from the requirements for adults, the same accessible toilet fixtures cannot be used for both lower grade elementary school students and for public use.

A minimum of one toilet and sink in each toilet room shall be accessible. Toilet partitions in all toilet rooms are not compliant and no student toilets in the building are currently fully compliant. Plumbing fixtures do not comply in mounting height or location and maneuvering clearances at doors and partitions are not compliant. Accessible clearances to toilet rooms at doors are not provided and at the 2<sup>nd</sup> floor toilet rooms a height difference of approximately 2" exists at the door thresholds between the toilet rooms and the corridor. Although not currently required by AAB, staff toilets will be regulated under the revised AAB to be published in the near future.

- Modifications to existing toilet facilities to provide compliant access to fixtures will require
  deletion of existing fixtures and reduction in overall fixture count as well as enlargement of the
  toilet rooms.
- Modification to single user staff toilet rooms to provide compliant access will require enlargement or relocation of these rooms.

All toilet rooms must be modified to provide these compliant fixtures. Because adult fixture clearance and mounting height requirements differ from the requirements for accessible Elementary school fixtures, separate toilet fixtures and sinks must be provided for adults using the public assembly facilities; staff toilet rooms may be used for this purpose if allowed for use by the public and constructed on appropriate floors. Extensive renovation of existing plumbing and mechanical systems, as well as structural modifications for new floor slabs and reconstruction pitches of floors, is necessary for relocation of toilet rooms.

Drinking fountains are provided within the building but are not accessible. These must be replaced with new fixtures with 2 level spouts.

As the plumbing service and much of the plumbing in the building is recommended for replacement for new toilet rooms and water fountains, it is also recommended that all plumbing supply piping in the building be replaced. This existing piping contains lead solder which can leach into the supply water over time.

### Signage:

Room signage with braille must be provided at all 'permanent rooms and spaces' as well as code required egress signage. Compliant signage and Symbols of Accessibility are missing throughout building.

Where exit signs indicate an accessible route, if all routes are not accessible, these exit signs shall include *Kaestle Boos Associates, Inc.*August 19, 2013

the symbol of accessibility. Also, illuminated signage identifying accessibility by the use of the international symbol contained within the "exit" sign must be provided at all egress doors in assembly and educational occupancies with an occupancy load of over 150 people. Provide this signage for exits from the Gym, Cafeteria, and Library.

### **Casework in Classrooms:**

Sinks, counters and other work areas in classrooms are required to comply. Sinks in casework are provided in 2 classrooms, 1 on the 1st floor and 1 on the 2nd floor; however, neither sink is accessible. These counters and sinks require modification for accessibility.

### **Assistive Listening Systems:**

A permanently installed assistive listening system must be provided for all assembly occupancies of more than 50 persons. The minimum number of receivers that needs to be provided must be equal to 4% of the total number of seats, but no less than two receivers per room. These systems must be provided in the Library, Cafeteria, and Gymnasium.

### **Food Service:**

Commercial kitchens for staff employees are not regulated for accessibility; however, servery equipment used by students must be compliant. In general, the existing equipment complies with current code requirements except for tray slides, freestanding servery equipment and the tray return. These equipment elements are too high for elementary school accessibility and must be modified or replaced. It is recommended that the existing tray slides be modified to the proper height, that the salad bar dispenser be replaced, and that the tray return opening be modified to be 32" high. This last item will require that the dish return counter in the kitchen be modified also.

## Davis Thayer Elementary School Franklin, Massachusetts Supplemental Accessibility Study

## Conceptual Design

a. Recommendations

b. Conceptual Design Plans

### 3. CONCEPTUAL DESIGN

### a. Recommendations

Recommendations for this supplemental study are limited solely to actions necessary to provide maximum compliance with the State of Massachusetts Architectural Accessibility Board (AAB) regulations. Other modifications previously recommended for building condition or educational program issues are not considered.

As a result of this study, it is determined that compliance with AAB cannot be limited to simple renovation of each non-compliant condition. In fact, this study shows that compliance affects other areas of the building as adjacent spaces are displaced because of enlargement or relocation necessary to bring existing spaces into compliance. To illustrate this, the floor plans following this narrative are presented in two formats:

- 1. the first format shows existing conditions floor plans with pink overlay to illustrate the areas of the existing building which will be affected by renovations necessary for compliance;
- 2. the second format shows the recommended modifications for compliance and relocated spaces shown in green overlay.

Also, site renovations are shown with a bird's-eye view of the building and site.

As discussed above, accessibility on the site is limited to access to the building and fields. Ramps must be constructed at the main entrance and secondary exit near the playground. Accessible parking and dropoff spaces must be provided which will require restriping of the parking lot and loss of 2 parking spaces. Play equipment and fields which provide accessible activities must have a path of accessible material. This can be wood chips, however, grading and drainage problems exist on the site which currently displace the wood chips around the play structure and a permanent synthetic resilient material is recommended to construct these paths. Grades are noted to be raised to provide at grade access to the northeast rear entrance where a new elevator lobby is recommended.

A new elevator is recommended to provide access to all floors of the building and has the biggest impact on the building. To minimize structural renovations to the building, a new elevator lobby is recommended to be constructed as an addition to the building at the northeast corner entrance. This location was chosen for several reasons:

- Locating at an existing stair or entrance provides access and minimizes impact on existing spaces
- Stair towers on the front (West Central Street) of the building have mid height landings at the exterior wall and could not provide access to the floor level from the elevator,
- this location does not affect the front elevation facing West Central Street,
- the northwest entrance door location would require displacement of a classroom on the second floor.
- the northwest entrance door location would also require displacement of the electrical room on the basement level,
- the northeast location provides access at the existing entrance used by students arriving and departing to buses,
- the northeast location access the stairway on the basement level and the corridor on the first floor directly and displaces a toilet room which would require expansion or relocation,
- this location does not eliminate any exterior windows,
- the northeast location will enclose the exterior doors which used to access the (now removed) fire escape.

An elevator and lobby at this location will require the service entrance for domestic water be relocated in the basement level. Structural modifications and abatement of hazardous bituminous dampproofing will

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be required to cut and modify the foundation wall to provide access to the building from the basement level elevator lobby. On the second floor, the elevator will displace the teacher planning room, which is shown to be relocated with the teacher office and janitor's closet. This swap of space requires that toilet rooms and the stair entrance doors be relocated also. On the third floor, the elevator will displace the girls toilet room, which is relocated to stack over the toilet rooms on the second floor. The residual space from the elevator corridor is given to the adjacent classroom.

An accessible routes throughout the building is provided, in part, by the elevator. Access to classrooms will require modification of doorways to provide required clearances on the pull side of the doors. Doors in corridors and stairways are shown to be relocated and replaced with doors of required width. Stairways are indicated to be renovated to provide handrails on both sides of the stairs and to replace the stair treads to provide compliant nosings.

Existing toilet rooms are not compliant with clearance and mounting requirements for fixtures and do not provide accessible entrances. Distribution of toilets in the existing building is also not compliant with the Plumbing Code. There are no toilets provided for Kindergarten students within their classrooms, there are no toilets provided on the basement level, and Staff toilets are not provided in locations which are accessible or within travel distances required. The recommendations shown on the floor plans resolve these issues by:

- stacking the student toilet rooms on the second and third floors to minimize plumbing for new fixtures,
- renovating within the existing student toilet rooms on the first floor,
- providing dedicated toilets for Kindergarten students utilizing plumbing from an existing toilet room near these classrooms on the first floor,
- enlarging the toilet room in the Nurse's office which requires relocation of the entrance to the Nurse's office, and
- distributing Staff Toilets for both male and female staff on the first and third floors.

New toilets on the third floor will require construction of new floor slabs to extend the flooring into the void space above the Library office. Existing Staff toilet rooms which were non-compliant are shown to be changed to Janitor's closets or storage rooms to offset displacement of these functions by relocation of the toilet rooms. Toilet facilities are not shown on the Basement level and are not required. However, if desired, toilet rooms may be added in the location of the concrete bleachers/storage. Demolition of the bleachers would be necessary and plumbing could be run through the vent tunnel. The resulting toilet fixture count and distribution meets or exceeds the requirements of the Plumbing Code.

Structurally, the infill of the open space of the Media Center will require the installation of new wide flange beams and concrete slab on metal deck flooring framed to the existing structural beams and columns.

Fire protection will require expansion of the existing full coverage sprinkler system installed in 2007 for all additional and renovated spaces. Branch piping would be provided from the existing mains to new wet sprinklers serving the new elevator addition to provide full coverage in accordance with NFPA13.

Plumbing would be affected by these recommendations. The domestic water service entrance location must be relocated as it currently exists where the new elevator lobby is shown. In addition, the water service is currently installed in close proximity to electrical distribution equipment and is violating the existing electrical distribution equipment code which requires access service space. Relocation of the water service entrance adjacent to the existing fire service entrance and main riser is required. New domestic cold water piping would be run out to serve all new plumbing requiring cold water at the

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proposed new bathrooms. Selective demolition and addition of new domestic cold water branch piping would be included in the phased design to rework the existing systems in the renovated areas as required for new plumbing work and fixture replacement. Installation of new domestic water piping is recommended throughout to prevent leaching of lead in the existing distribution piping.

Also, replacement of the existing standard efficiency boiler/ storage tank domestic hot water system with a new high efficiency sealed combustion condensing type gas fired storage heater is recommended with any extensive renovation.

The existing natural gas service entrance is not in the path of the new proposed building and foundation system and the existing natural gas system piping and service may remain in place.

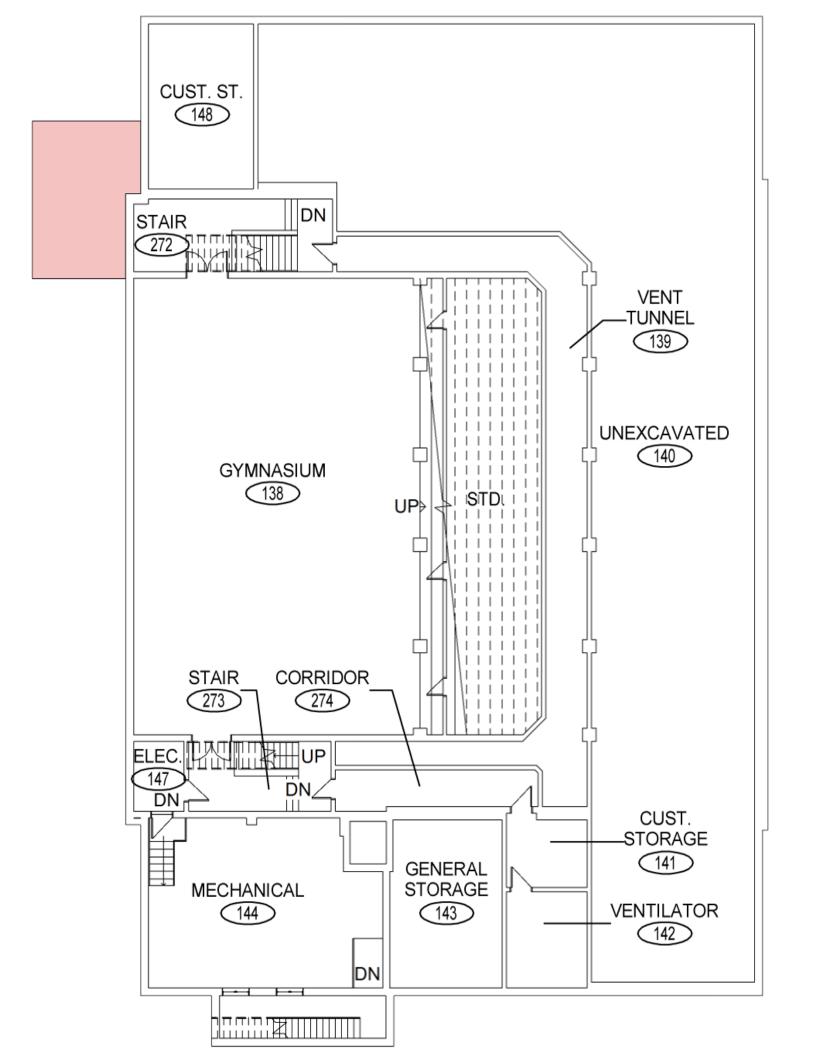
For mechanical systems, replacement and modification of the existing bathroom ventilation exhaust systems to serve the recommended toilet room locations is necessary. Makeup air systems for the building will need to be evaluated for the required increase in outside air to the building. Possible use of new central exhaust design should be reviewed during design phase to provide energy recovery for required makeup air for the proposed bathrooms.

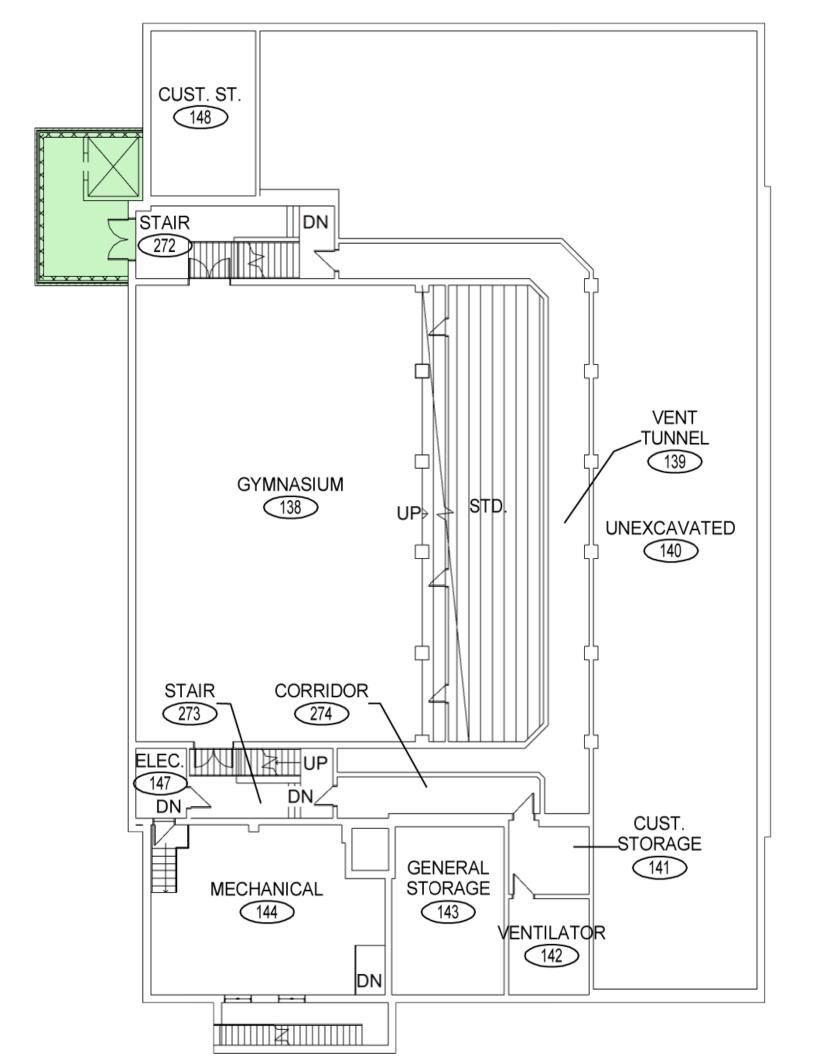
Also, new ductless split system air conditioning is recommended for the new elevator machine room cooling to maintain space below the code maximum temperature of 90 degrees. Hoistway and elevator machine room ventilation and smoke control systems will be required to installed for the new proposed elevator.

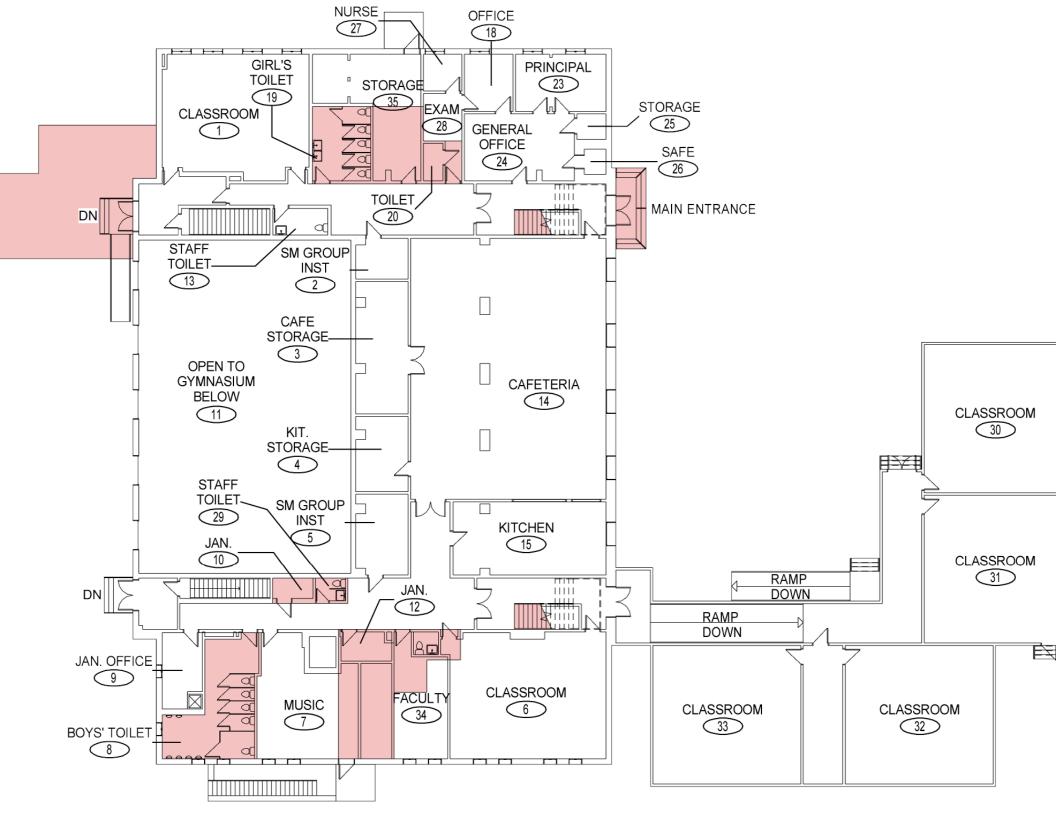
The existing air handling unit shall be removed and a new air handling unit shall be installed for the Multipurpose Media space in the newly configured mechanical room to accommodate the new proposed bathrooms. New distribution ductwork will be required to suit the new mechanical room configuration. A DX split system option added to the unit with outdoor air cooled condensing unit and refrigeration coil and piping would provide air conditioning to the space to allow greater flexibility and use as possible conditioned meeting space for year round use.

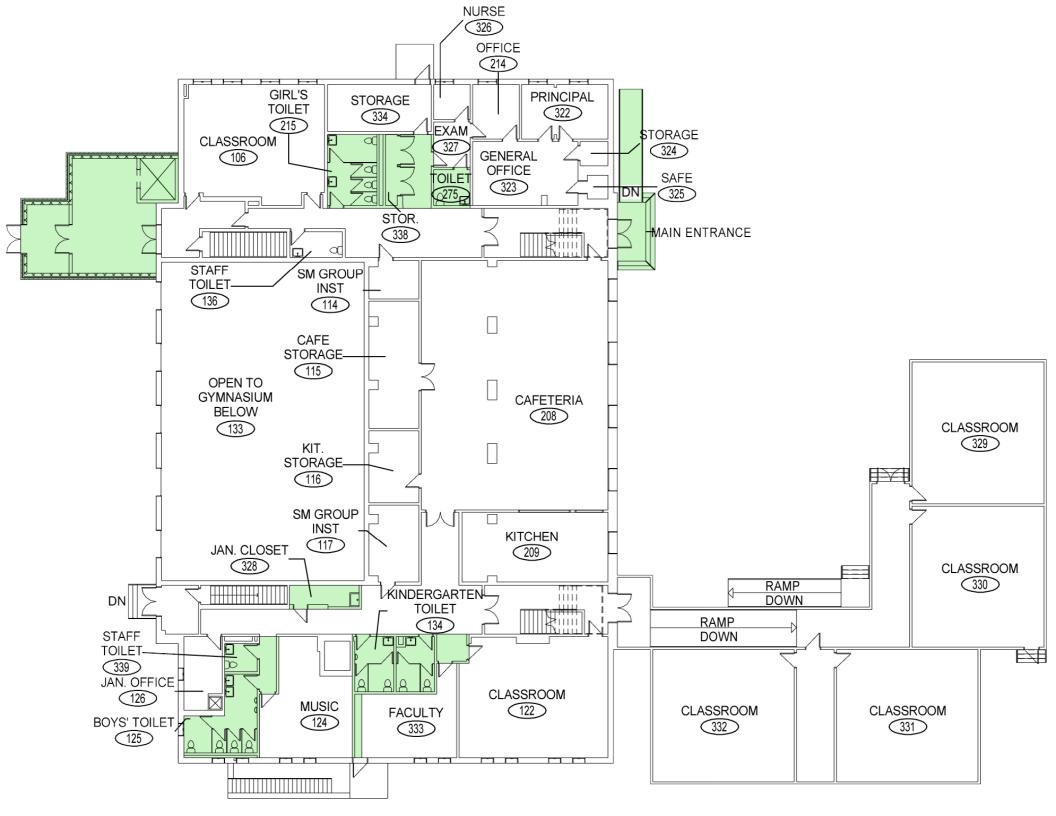
For electrical systems, replacement of the existing 400 amp 120/208 3 phase service with a new 1200 amp, 480 volt, 3 phase system fed from a new pad mounted utility transformer fed below ground from the existing utility poles located on Union Street is necessary to support the new elevator and emergency generator. A new secondary electrical service entrance is recommended in a new electric room located in the exterior corner of the existing mechanical room. A main distribution switchboard would be provided to serve the new electrical distribution system. A breaker would be provided with a transformer to back feed the existing 400 amp service to accommodate proposed and future construction. All new panelboards, wiring and electrical distribution system would be provided for the new building elevator addition and renovated existing building.

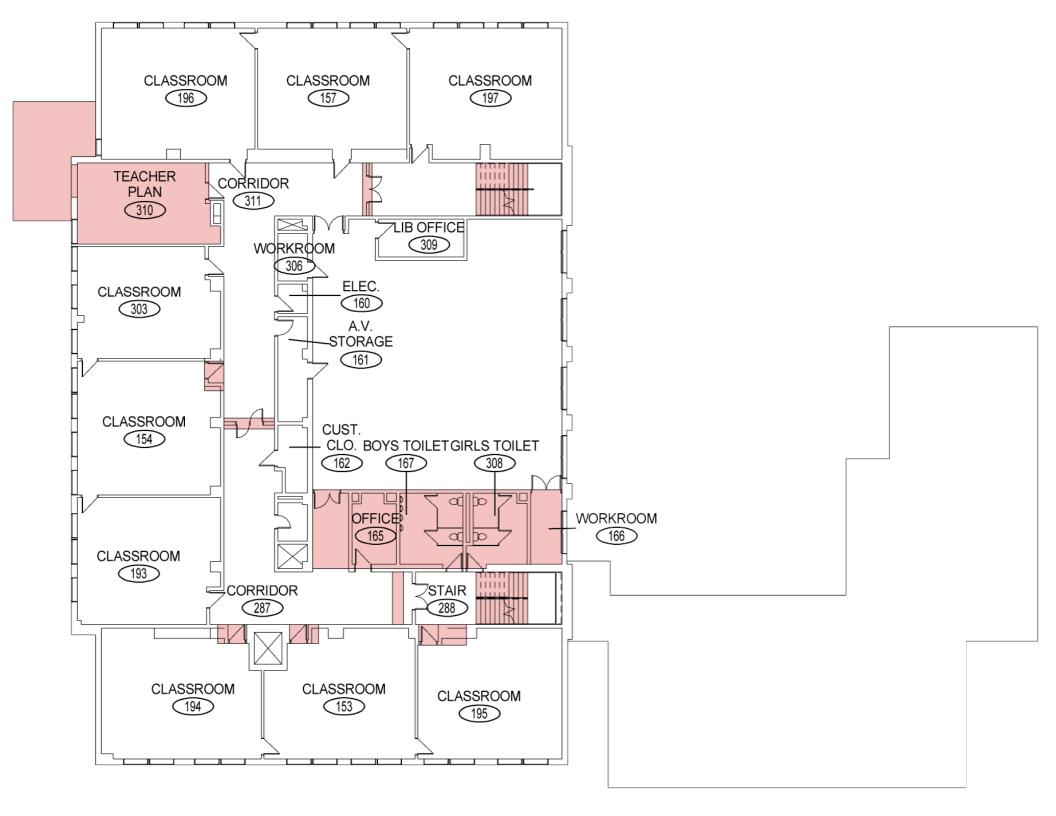
Installation of a combination life safety and standby emergency generator with multiple transfer switches serving the life safety emergency lighting and elevator is highly recommended to provide power to a dedicated life safety distribution system and critical operational loads, such as servery refrigerators and network and support systems.

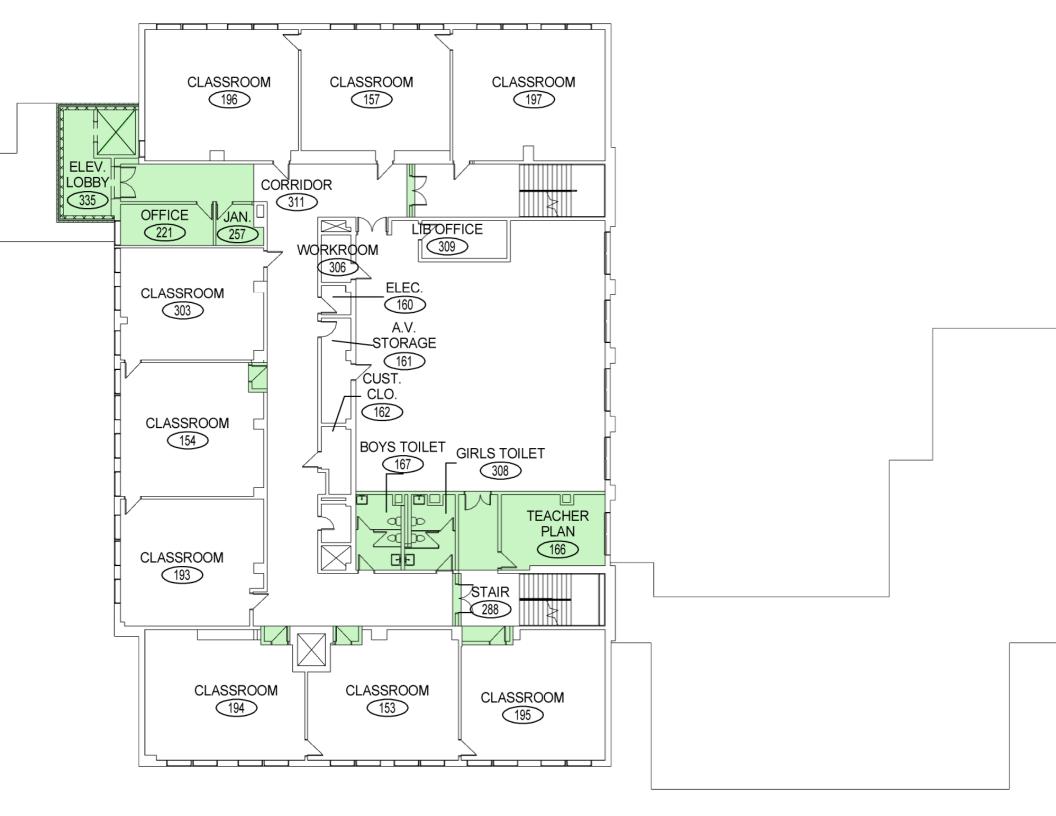


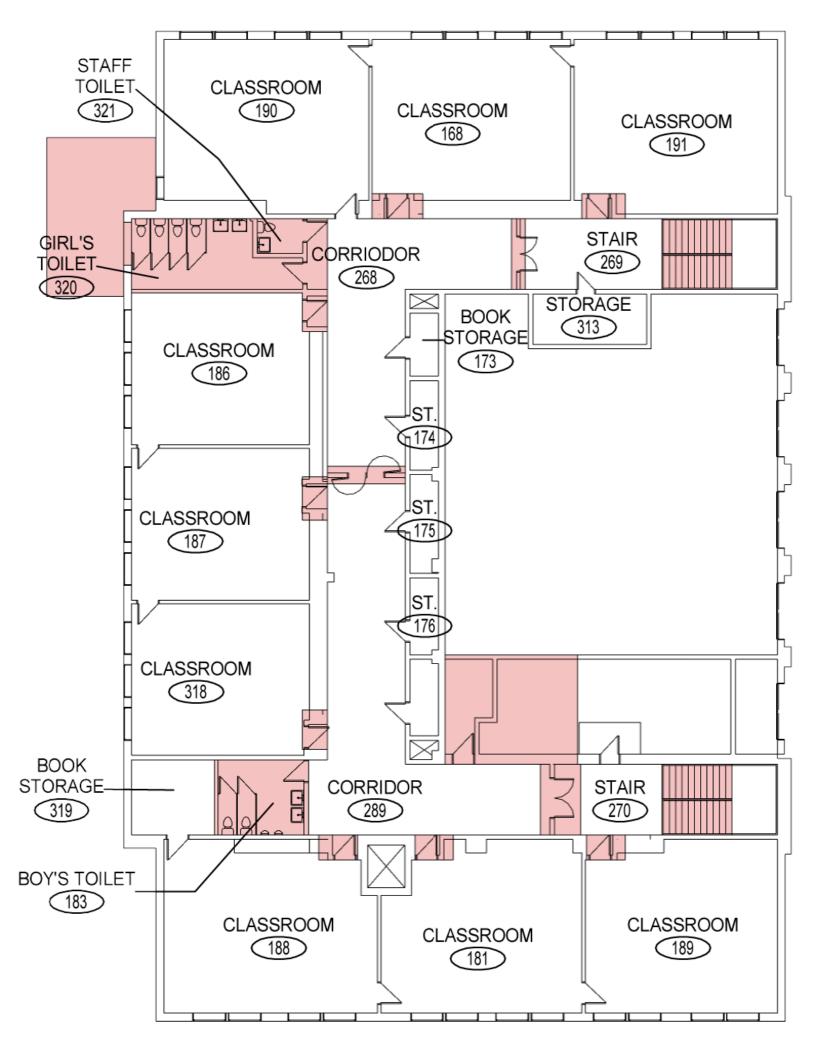


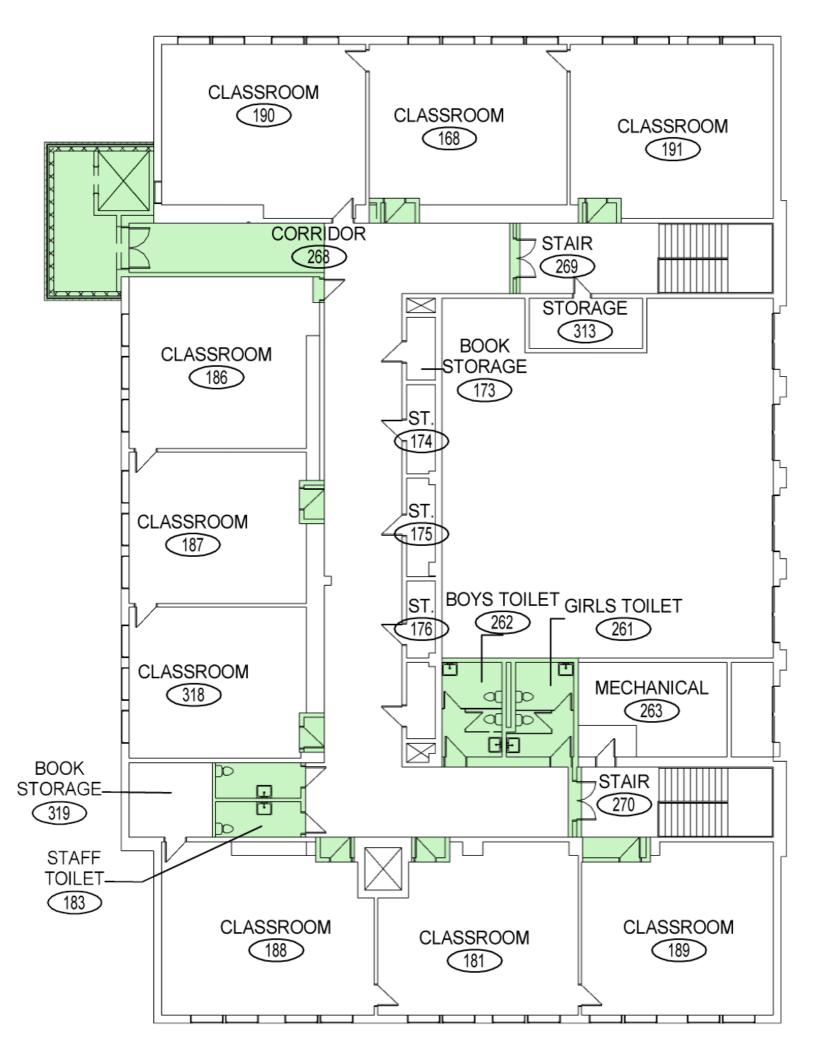


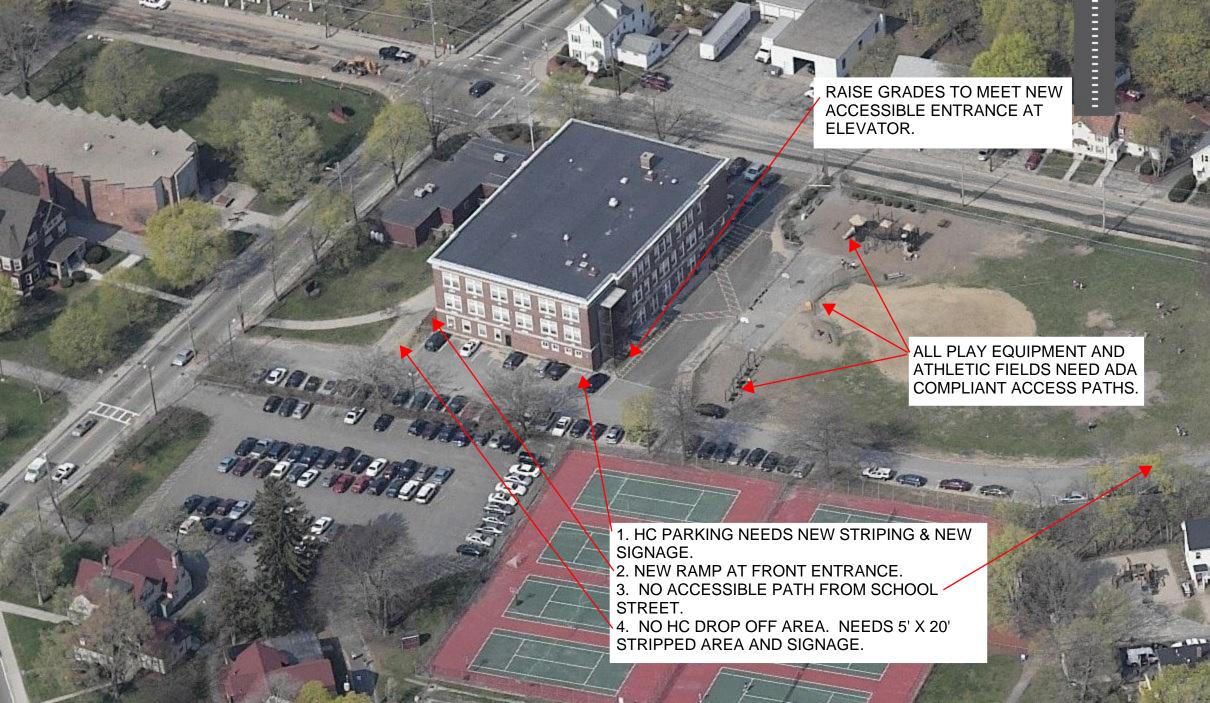












## Davis Thayer Elementary School Franklin, Massachusetts Supplemental Accessibility Study

## Opinion of Probable Cost

- a. Accessibility Renovation OPC
- b. Detailed Construction Cost Estimate

## **Davis Thayer School - Accessibility Upgrades**

Preliminary Opinion of Pro	bable Project Cost			August 15, 2013
Item Description		Sub Total	Cost	Comments
Site Development Cost				
Site Development		\$123,574		
<b>Building Construction Cost</b>				
New Construction	1,594 SF	\$824,812		
Renovation	50,589 SF	\$1,577,503		
Hazardous Material Abatement		\$100,000		
Design & Pricing Contingency	@ 12%	\$315,107		_
	Subtotal:		2,940,996	-
General Conditions & Overhead	@ 15%	\$441,149		
Insurance	@ 1.1%	\$37,204		
GC Bonds	@ 0.65%	\$22,226		
Permit	Waived by Town	\$0		
GC Fee	@ 3%	\$103,247		<u>-</u>
Suntota	al Construction Cost:	\$3,	,544,822	
	Escalation (3.5%):		\$124,069	
Tota	al Construction Cost:	\$3,	,668,891	-
Owners' Indirect Costs				
Arch.& Eng.Fees		\$336,800		
Reimbursable Expenses		\$16,840		
Project Management		\$160,000		
Structural Peer Review		\$3,000		
Furnishings, Furniture & Equipmen	t	\$10,000		
Reproduction /Miscellaneous		\$12,500		
Legal/Advertising		\$7,500		
Material Testing		\$10,000		
Owner's Contingency		\$410,100		10% of all costs
Estimated Owner's Costs		\$	966,740	-
<b>Total Estimated Project Cost</b>		\$4	,635,631	



# Davis Thayer Elementary School Franklin, MA

August 15, 2013

### **Access Study Estimate**



### **Architect:**

Kaestle Boos Associates, Inc 325 Foxborough Blvd. Foxborough, MA 02035 (508) 549-9906

### **Cost Estimator:**

Daedalus Projects Incorporated 112 South Street, Boston, MA 02111 161 Exchange Street, Pawtucket, RI 02860 (617) 451 2717 (401) 721 0811

Davis Thayer Elementary School Franklin, MA

#### INTRODUCTION

### **Project Description:**

- The project consists of the renovation of the existing building that is 50,589 GSF. There also is an addition to the building that is 1,594 GSF.
- Addition is a steel framed structure with metal floor decks & concrete slabs, steel frame roofing system
- The project includes sitework, parking, demolition of existing prefabricated building, and hazardous waste abatement

### **Project Particulars:**

- Study drawings and the existing conditions report received August 7th, 9th & 12th, 2013, from by Kaestle Boos Associates, Inc. and their consultants
- Construction start date of Summer 2014
- Detailed quantity takeoff from these documents where possible
- Daedalus Projects, Inc. experience with similar projects of this nature

### **Project Assumptions:**

- The project will be publicly bid to no less than three (3) General Contractors under Chapter 149
- Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each sub-trade
- The total construction cost reflects fair construction value of this project in a competitive bidding market
- Unit rates are based on current dollars
- An allowance for escalation to start of construction at a rate of 3.5% per year has been carried in the main summary
- Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead, home office and subcontractor's profit
- General Conditions and Requirements cover for: site office and/or overheads, personnel, final cleaning, etc.
- Fee is calculated on a percentage basis of direct construction cost
- Design and Pricing Contingency is an allowance for unforeseen design issues, design detail development and specification clarifications

#### **Project Exclusions:**

- Design fees and other soft costs
- Interest expense
- Owner's project administration
- Construction of temporary facilities
- Relocation expenses
- AV equipment excluded
- Printing and advertising
- Site or existing condition surveys and investigations
- Utility company back charges during construction
- Work beyond the boundary of the site
- Testing & commissioning
- Specialties, loose furnishings, fixtures and equipment beyond those noted
- LEED Certification submission and process



### **MAIN SUMMARY**

Davis Thayer Elementary School

Franklin, MA

52,183 GSF

				52,183 GSF
			TOTAL	COST/SF
Direct Trade Costs				
Site Development			\$123,574	
New Construction	1,594	GSF	\$824,812	\$517.45
Renovation Building	50,589	GSF	\$1,577,503	\$31.18
Hazardous Waste			\$100,000	\$1.98
Direct Trade Cost SubTotal			\$2,625,889	\$50.32
Design and Pricing Contingency	12.00%	\$2,625,889	\$315,107	\$6.04
Trade Cost SubTotal			\$2,940,996	\$56.36
General Conditions and Markups				
General Conditions and Requirements	15.00%	\$2,940,996	\$441,149	\$8.45
Insurance	1.10%	\$3,382,145	\$37,204	\$0.71
GC Bonds	0.65%	\$3,419,349	\$22,226	\$0.43
Fee	3.00%	\$3,441,575	\$103,247	\$1.98
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Estimated Construction Cost Total			\$3,544,822	\$67.93
			<b>\$6,644,622</b>	ψ01100
Escalation	3.50%	\$3,544,822	\$124,069	\$2.38
2504.4.1011	0.0070	ψο,ο::,ο <u>-</u> _	Ψ121,000	Ψ2.00
Estimated Construction Cost Total, Including Esca	alation		\$3,668,891	\$70.31
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### **SITE SUMMARY**

Davis Thayer Elementary School Franklin, MA 0 GSF

ELEMENT	TOTAL
02 41 00 Demolition	\$7,85
02-EXISTING CONDITIONS	\$7,85
	<b>*</b>
31 10 00 Site Clearing & Preparation	\$17,56
31 20 00 Earth Moving	\$1,72
31 25 00 Erosion and Sedimentation Controls	\$71
31-EARTHWORK	\$19,99
32 12 16 Asphalt Pavement	\$4,62
32 14 00 Unit Pavement	\$4,3
32 16 00 Curbs	4 1,0
32 17 23 Pavement Markings	\$1,8
32 18 00 Playground	<b>41,5</b>
32 30 00 Site Improvements	\$17,2
32 31 13 Chain Link Fences and Gates	ψ17,2
32 92 00 Turf and Grass	\$1,5
32 93 00 Plants	Ψ1,5
32-EXTERIOR IMPROVEMENTS	\$29,4
52-EXTERIOR IN ROVENIERTS	Ψ23,4
33 10 00 Water Utilities	
33 30 00 Sanitary Sewerage Utilities	
33 40 00 Storm Drainage Utilities	
33 50 00 Gas Service	
33 70 00 Electrical Utilities	\$66,2
33-UTILITIES	\$66,2
	, ,
Subtotal Carried To Main Summary	\$123,5



### **SITE DETAIL**

Davis Thayer Elementary School Franklin, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
				-	
7	02-SITEWORK				
8					
9	02 41 00 Demolition				
10	Remove existing concrete pavement at accessible path from school street allowance	1,250	SF	\$1.50	\$1,875
11	Sawcut existing pavement	91	LF	\$5.00	\$455
12	Remove bituminous concrete paving	1,016	SF	\$1.50	\$1,525
13	Protect existing playground equipment during construction	1	LS	\$1,500.00	\$1,500
14	Misc. demolition other than above	1	AL	\$2,500.00	\$2,500
15	02 41 00 Demolition Total				\$7,855
16					
17					
18	31-EARTHWORK				
19					
20	31 10 00 Site Clearing & Preparation				
21	Clear & grub	1	AL	\$1,500.00	\$1,500
22	Construction fence for addition building allowance	101	LF	\$10.00	\$1,012
23	Construction fence for renovation building allowance	380	LF	\$10.00	\$3,800
24	Double construction gate	1	EA	\$2,000.00	\$2,000
25	Temporary construction entrance	1	LS	\$6,500.00	\$6,500
26	Wash down/re-fuelling/parking allowance	500	SF	\$1.50	\$750
27	Inlet protection	1	LS	\$500.00	\$500
28	Temp signs	1	LS	\$1,500.00	\$1,500
29	31 10 00 Site Clearing & Preparation Total				\$17,562
30					
31	31 20 00 Earth Moving				
32	Raise grades to meet new accessible entrance at elevator	1	LS	\$500.00	\$500
33	Cut and fill of sidewalk allowance	64	CY	\$8.00	\$509
34	Gravel base to sidewalks and paving allowance	25	CY	\$28.00	\$713
35	31 20 00 Earth Moving Total				\$1,722
36					
37	31 25 00 Erosion and Sedimentation Controls			•	
38	Silt fence allowance	92	LF	\$5.00	\$460
39	Haybales for stockpile soil allowance	50	LF	\$5.00	\$250
40	31 25 00 Erosion and Sedimentation Controls Total				\$710
41					
42					
43	32-EXTERIOR IMPROVEMENTS				
44	20.40.40.4. 1. 1/2				
45	32 12 16 Asphalt Pavement				



### **SITE DETAIL**

Davis Thayer Elementary School Franklin, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
46	Patch existing pavement allowance	300	SF	\$5.00	\$1,500
47	Bituminous concrete access paths for all play equipment and athletics fields allowance	1,250	SF	\$2.50	\$3,125
48	32 12 16 Asphalt Pavement Total			<u>-</u>	\$4,625
49					
50	32 14 00 Unit Pavement				
51	New accessible entrance at elevator allowance	1	LS	\$1,800.00	\$1,800
52	New ramp at front entrance allowance	1	LS	\$2,500.00	\$2,500
53	32 14 00 Unit Pavement Total				\$4,300
54					
55	32 16 00 Curbs				
56	No work shown in this section			_	\$0
57	32 16 00 Curbs Total				\$0
58					
59	32 17 23 Pavement Markings				
60	ADA markings	1	EA	\$100.00	\$100
61	Stripped area	100	SF	\$2.50	\$250
62	Misc. pavement marking	1	AL	\$1,500.00	\$1,500
63	32 17 23 Pavement Markings Total				\$1,850
64					
65	32 18 00 Playground				
66	No work shown in this section			_	\$0
67	32 18 00 Playground Total				\$0
68					
69	32 30 00 Site Improvements	_		<b>*</b>	40-0
70	New HC parking signs	1	EA	\$350.00	\$350
71	No HC drop off parking signs	1	EA	\$350.00	\$350
72	Repair existing retaining wall allowance	1	LS	\$1,500.00	\$1,500
73	Misc. site improvement	1	LS	\$15,000.00	\$15,000
74	32 30 00 Site Improvements Total				\$17,200
75 70	22 24 42 Chain Link Fances and Cates				
76 77	32 31 13 Chain Link Fences and Gates				<b>#</b> O
77	No work shown in this section			_	\$0
78 70	32 31 13 Chain Link Fences and Gates Total				<b>\$0</b>
79 80	32 92 00 Turf and Grass				
80		4	AL	¢1 500 00	<b>Ф4 БОО</b>
81	New lawn	1	ΛL	\$1,500.00	\$1,500 \$1,500
82	32 92 00 Turf and Grass Total				\$1,500
83	22 02 00 Plants				
84	32 93 00 Plants				



### **SITE DETAIL**

Davis Thayer Elementary School Franklin, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
		QUARTITI	ONT	JIII KAIL	0001
85	No work shown in this section				\$0
86	32 93 00 Plants Total			_	\$0
87					
88					
89	33-UTILITIES				
90					
91	33 10 00 Water Utilities				
92	No work shown in this section			_	\$0
93	33 10 00 Water Utilities Total			_	\$0
94					
95	33 30 00 Sanitary Sewerage Utilities				
96	No work shown in this section			_	\$0
97	33 30 00 Sanitary Sewerage Utilities Total				<b>\$0</b>
98					
99	33 40 00 Storm Drainage Utilities				
100	No work shown in this section			_	\$0
101	33 40 00 Storm Drainage Utilities Total				\$0
102					
103	33 50 00 Gas Service				
104	No work shown in this section			_	\$0
105	33 50 00 Gas Service Total				\$0
106					
107	33 70 00 Electrical Utilities				
108	Utility Ductbanks and Service				
109	Power riser pole	1	LS	\$ 1,500.00	\$1,500
110	Primary overhead by Utility Company	1	LF		NIC
111	1200A secondary service ductbank (allow)	150	LF	\$320.00	\$48,000
112					
113	Generator Ductbank and Service				
114	Generator pad	1	LS	\$2,500.00	\$2,500
115					
116	Communications Ductbank and Service	_		•	•
117		1	EA	\$1,500.00	\$1,500
118	Communication service ductbank 2-4" conduits concrete encased	150	LF	\$85.00	\$12,750
119	00.444				
120	Site Lighting				
121	Site Lighting			<del>-</del>	NIC 250
122	33 70 00 Electrical Utilities Total				\$66,250
123		TOTAL TO C	INANAAD	V	¢400 E74
124		TOTAL TO SU	ININIAK	T	\$123,574



### **ADDITION SUMMARY**

Davis Thayer Elementary School Franklin, MA

1,594 GSF

		1,594 GSF
ELEMENT	TRADE COST	COST/SF
00 00 00 00 00 00	ФE4 007	<b>#</b> 00 44
03 30 00 Concrete	\$51,667	\$32.41
03-CONCRETE TOTAL	\$51,667	\$32.41
04 20 00-Unit Masonry Assemblies	\$87,360	\$54.81
04-MASONRY TOTAL	\$87,360	\$54.81
04-MASONKT TOTAL	\$67,300	\$34.01
05 12 00 Structural Steel Framing	\$48,500	\$30.43
05 15 00 Stud Shear Connectors	\$1,045	*******
05 31 00 Steel Decking	\$9,457	\$5.93
05 50 00 Metal Fabrications	\$14,901	\$9.35
05 81 00-Expansion Joint Systems	\$11,200	\$7.03
05-METALS TOTAL	\$85,103	\$ <b>53.39</b>
US-WILTALS TOTAL	φ05,105	φυυ.υ <del>υ</del>
06 10 00 Rough Carpentry	\$7,102	\$4.46
06 20 00 Finish Carpentry	\$1,196	\$0.75
06 40 00 Architectural Woodwork	\$3,000	\$1.88
06-WOODS & PLASTICS TOTAL	\$11,297	\$7.09
	<b>,</b> , , , , , , , , , , , , , , , , , ,	******
07 16 13 Waterproofing and Dampproofing	\$11,890	\$7.46
07 21 00 Thermal Insulation	\$12,864	\$8.07
07 26 00 Vapor Retarders	\$15,607	\$9.79
07 50 00-Roofing	\$15,748	\$9.88
07 84 00 Firestopping	\$2,000	\$1.25
07 92 00 Joint Sealants	\$2,000	\$1.25
07-THERMAL & MOISTURE PROTECTION TOTAL	\$60,108	\$37.71
08 11 13 Hollow Metal Doors and Frames	\$0	\$0.00
08 14 16 Flush Wood Doors	\$0	\$0.00
08 31 00 Access Doors and Panels	\$0	\$0.00
08 33 00-Overhead Cooling Doors	\$0	\$0.00
08 43 13 Aluminum-Framed Storefronts	\$49,609	\$31.12
08 44 13 Glazed Aluminum Curtain Walls	\$48,020	\$30.13
08 51 13 Aluminum Windows	\$54,023	\$33.89
08 71 00 Door Hardware	\$0	\$0.00
08 80 00 Glazing	\$0	\$0.00
08-OPENINGS TOTAL	\$151,652	\$95.14
09 20 00 Gypsum Wallboard Systems	\$10,604	\$6.65
09 30 00 Tile	\$0	\$0.00
09 51 00 Acoustical Ceiling	\$5,065	\$3.18



### **ADDITION SUMMARY**

Davis Thayer Elementary School Franklin, MA

1,594 GSF

		1,594 GSF
ELEMENT	TRADE COST	COST/SF
		0001
09 65 00 Resilient Flooring	\$14,882	\$9.34
09 90 00 Paints and Coatings	\$5,600	\$3.51
09-FINISHES TOTAL	\$36,150	\$22.68
10 10 00 Visual Display Boards	\$3,500	\$2.20
10 14 00 Signage	\$955	\$0.60
10 20 00-Exterior Louvers	\$1,200	\$0.75
10 21 13 Toilet Compartments	\$0	
10 28 13 Toilet Accessories	\$0	\$0.00
10 44 00 Fire Protection Specialties	\$1,800	\$1.13
10 51 13 Metal Lockers	\$0	\$0.00
10-SPECIALTIES TOTAL	\$7,455	\$4.68
11 31 00 Appliances	\$0	\$0.00
11 40 00 Food Service Equipment	\$0	\$0.00
11 52 13 Projection Screens	\$0	\$0.00
11 66 23 Gymnasium Equipment	\$0	\$0.00
11-EQUIPMENT TOTAL	\$0	\$0.00
THE EQUILIBRIUM TO TALE	<b>4</b> 0	φοισσ
12 24 00 Window Shades	\$3,602	\$2.26
12 48 13 Entrance Floor Mats & Frames	\$1,120	\$0.70
12-FURNISHINGS TOTAL	\$4,722	\$2.96
14 24 00-Hydrulic Elevators	\$190,000	\$119.20
14-CONVEYING SYSTEMS TOTAL	\$190,000	\$119.20
21 00 00 Fire Protection	\$6,983	\$4.38
22 00 00 Plumbing	\$5,750	\$4.36 \$3.61
23 00 00 HVAC	\$3,730 \$73,478	\$46.10
21-23 MECHANICAL TOTAL	\$73,476 \$86,210	\$54.08
21-23 WECHANICAL TOTAL	\$66,210	<b>\$54.06</b>
26 00 00 Electrical	\$28,724	\$18.02
26-ELECTRICAL TOTAL	\$28,724	\$18.02
31 30 00 Building Excavation	\$11,565	\$7.26
31 40 00 Shoring and Underpinning	\$12,800	\$8.03
31- EARTHWORK TOTAL	\$24,365	\$15.29
Subtotal Carried To Main Summary	\$824,812	\$517.45
	. ,	-



### **ADDITION DETAIL**

Davis Thayer Elementary School Franklin, MA 1,594 GSF

					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
8	Basement	321	SF		
9	Main Level	651	SF		
10	Second Level	310	SF		
11	Third Level	312	SF		
12	Total Addition	1,594	GSF		
13					
14					
15	03-CONCRETE				
16					
17	03 30 00 Concrete				
18	Slab-on-Grade				
19	Concrete 4" thick	8	CY	\$115.00	\$920
20	WWF -10% overlap	716	SF	\$0.75	\$537
21	Place and finish	651	SF	\$2.00	\$1,302
22	Slab on deck; 4 -1/2" normal weight				
23	Concrete	17	CY	\$115.00	\$1,955
24	WWF - 10% overlap	1,037	SF	\$0.75	\$778
25	Place and finish	943	SF	\$2.00	\$1,886
26	Continuous footings; 2' 2" x 12" deep				
27	Concrete	5	CY	\$115.00	\$575
28	Rebar w/dowels	425	LBS	\$0.85	\$361
29	Formwork	100	SF	\$8.00	\$800
30	Place and finish	5	CY	\$75.00	\$375
31	Frost walls				
32	Concrete	5	CY	\$115.00	\$575
33	Rebar	625	LBS	\$0.85	\$531
34	Formwork	280	SF	\$8.00	\$2,240
35	Brick shelf	85	LF	\$7.00	\$595
36	Place and finish	5	CY	\$75.00	\$375
37	Basement Walls				
38	Concrete	25	CY	\$115.00	\$2,875
39	Rebar	3,750	LBS	\$0.85	\$3,188
40	Formwork	1,080	SF	\$8.00	\$8,640
41	Place and finish	25	CY	\$75.00	\$1,875
42	Spread footings				
43	Concrete	15	CY	\$115.00	\$1,725
44	Rebar	1,275	LBS	\$0.65	\$829
45	Formwork	300	SF	\$8.00	\$2,400
46	Place and finish	15	CY	\$75.00	\$1,125
47	Pier/pilaster; 2' 0" sq w/40#/lf rebar	10	EA	\$500.00	\$5,000



### **ADDITION DETAIL**

Davis Thayer Elementary School Franklin, MA 1,594 GSF

					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
48	Miscellaneous items				
49	Elevator pit	1	EA	\$5,000.00	\$5,000
50	Vapor barrier	684	SF	\$0.30	\$205
51	Minor dewatering during construction	1	LS	\$1,500.00	\$1,500
52	Concrete general conditions	1	LS	\$3,500.00	\$3,500
53	03 30 00 Concrete Total				<b>\$51,667</b>
54					
55					
56	04-MASONRY				
57					
58	04 20 00-Unit Masonry Assemblies		_		
59	CMU elevator shaft	1,776	SF	\$20.00	\$35,520
60	Brick exterior (40% exterior)	960	SF	\$34.00	\$32,640
61	8" CMU back-up	960	SF	\$20.00	\$19,200
62	04 20 00-Unit Masonry Assemblies Total				\$87,360
63					
64					
65	05-METALS				
66	05.40.00.00				
67	05 12 00 Structural Steel Framing	_			
68	Structural Steel	4	TON	\$5,000.00	\$20,000
69	Structural Steel Roof	3	TON	\$5,000.00	\$15,000
70	Columns	2	TNS	\$5,000.00	\$10,000
71	Allow for connections	•		Φο ποο οο	Included
72	Moment connections	1	AL	\$3,500.00	\$3,500
73	05 12 00 Structural Steel Framing Total				\$48,500
74	OF 4F 00 Ctud Chara Commontors				
75 76	05 15 00 Stud Shear Connectors	400	<b>-</b> ^	<b>#F F</b> 0	Φ4 <b>0</b> 4Ε
76 77	Shear Studs	190	EA	\$5.50 <u> </u>	\$1,045 <b>\$1,045</b>
77 78	05 15 00 Stud Shear Connectors Total				<b>Ф1,04</b> 5
	05 31 00 Steel Decking				
79 80	Metal floor deck	1,273	SF	\$5.00	\$6,365
81	Metal roof deck	1,273 651	SF	\$3.00 \$4.75	\$3,092
82	05 31 00 Steel Decking Total	031	IJΓ	Ψ4.70	\$9,457
83	00 01 00 Oleel Decking Total				φ3, <del>4</del> 3/
84	05 50 00 Metal Fabrications				
85	Metals for elevator	1	LS	\$7,500.00	\$7,500
86	Miscellaneous metals in exterior closure	2,401	SF	\$7,500.00 \$1.00	\$7,500 \$2,401
87	Miscellaneous metals	2, <del>4</del> 01 1	LS	\$1.00 \$5,000.00	\$5,000
01	IVIISCEIIAI IECUS IIIECAIS	1	LO	φ5,000.00	φ3,000



	EL PARKET	01141:5:5		110117 5 4 7 7	1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	OF FO OO Market Fall standings Tark t			_	644.004
88	05 50 00 Metal Fabrications Total				\$14,901
89	250400 5				
90	05 81 00-Expansion Joint Systems				<b>*</b> 0.400
91	Floor expansion joint	84	LF . –	\$38.00	\$3,192
92	Exterior wall expansion joint	156	LF 	\$45.00	\$7,020
93	Roof expansion joint	26	LF	\$38.00	\$988
94	05 81 00-Expansion Joint Systems Total				\$11,200
95					
96					
97	06-WOODS & PLASTICS	l			
98					
99	06 10 00 Rough Carpentry				
100	Rough carpentry for interiors	1	LS	\$3,500.00	\$3,500
101	Rough carpentry for exteriors	2,401	SF	\$1.50 <u> </u>	\$3,602
102	06 10 00 Rough Carpentry Total				\$7,102
103					
104	06 20 00 Finish Carpentry				
105	Miscellaneous finish carpentry	1,594	SF	\$0.75	\$1,196
106	06 20 00 Finish Carpentry Total				\$1,196
107					
108	06 40 00 Architectural Woodwork				
109	Misc. architectural woodwork	1	LS	\$3,000.00	\$3,000
110	06 40 00 Architectural Woodwork Total				\$3,000
111					
112		_			
113	07-THERMAL & MOISTURE PROTECTION				
114					
115	07 16 13 Waterproofing and Dampproofing				
116	Dampproofing to frost and basement walls	1,100	SF	\$5.50	\$6,050
117	Waterproofing at foundation wall	140	SF	\$6.00	\$840
118	Waterproofing at elevator pit	1	LS	\$5,000.00	\$5,000
119	07 16 13 Waterproofing and Dampproofing TOTAL				\$11,890
120					
121	07 21 00 Thermal Insulation				
122	Insulation below slab on grade	684	SF	\$2.50	\$1,710
123	Rigid insulation to frost and basement walls	1,100	SF	\$2.50	\$2,750
124	Exterior wall rigid insulation	2,401	SF	\$3.50	\$8,404
125	07 21 00 Thermal Insulation Total				\$12,864
126					
127	07 26 00 Vapor Retarders				



					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
465	A in la aurieu	0.404	0.5	<b>#0.50</b>	Φ4E 007
	Air barrier	2,401	SF	\$6.50 <u> </u>	\$15,607 \$15,607
129	07 26 00 Vapor Retarders Total				\$15,607
	07 50 00-Roofing				
132	Roofing system including insulation	716	SF	\$18.50	\$13,248
	Roof accessories	1	LS	\$2,500.00	\$2,500
	07 50 00-Roofing Total	•		<u></u>	\$15,748
135					, ,,
136	07 84 00 Firestopping				
137	Firestopping	1	AL	\$1,000.00	\$1,000
138	Fireproofing to stair, elevator, and exposed steel	1	AL	\$1,000.00	\$1,000
139	07 84 00 Firestopping Total			<u> </u>	\$2,000
140					
141	07 92 00 Joint Sealants				
142	Interior caulking	1	LS	\$1,000.00	\$1,000
143	Exterior caulking	1	LS	\$1,000.00	\$1,000
144	07 92 00 Joint Sealants Total				\$2,000
145					
146					
147	08-DOORS & WINDOWS				
148 149	08 11 13 Hollow Metal Doors and Frames				
150	No work shown in this section				
151	08 11 13 Hollow Metal Doors and Frames Total			_	\$0
152	To Thomow Metal Bool 3 and Traines Total				ΨΟ
	08 14 16 Flush Wood Doors				
	No work shown in this section				\$0
	08 14 16 Flush Wood Doors Total			<del></del>	<b>\$0</b>
156					
157	08 31 00 Access Doors and Panels				
158	No work shown in this section				\$0
159	08 31 00 Access Doors and Panels Total			_	\$0
160					
161	08 33 00-Overhead Cooling Doors				
162	No work shown in this section			<u> </u>	\$0
163	08 33 00-Overhead Cooling Doors Total				<b>\$0</b>
164					
165	08 43 13 Aluminum-Framed Storefronts				
166	Aluminum storefront (10% exterior)	240	SF	\$90.00	\$21,609
167	Aluminum Entry Doors Including Hardware:				



					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	Exterior Aluminum entry doors including hardware	2	PR	\$7,000.00	\$14,000
169	Interior Aluminum entry doors including hardware	2	PR	\$7,000.00	\$14,000
170	08 43 13 Aluminum-Framed Storefronts Total				\$49,609
171					
172				•	
	Curtainwall (20% exterior)	480	SF	\$100.00	\$48,020
	08 44 13 Glazed Aluminum Curtain Walls Total				\$48,020
175	20.54.40.41				
176	08 51 13 Aluminum Windows		05	<b>#75.00</b>	<b>#</b> 54.000
	Windows (30% exterior)	720	SF	\$75.00	\$54,023
	08 51 13 Aluminum Windows Total				\$54,023
179	00 74 00 Dans Handware				
180	08 71 00 Door Hardware				
181	See Aluminum door  08 71 00 Door Hardware Total			_	<b>\$0</b>
183	00 7 1 00 DOOI Hardware Total				\$0
184	08 80 00 Glazing				
185					\$0
	08 80 00 Glazing Total			_	\$0 \$0
187	To be de clazing Total				ΨΟ
188					
189	09-FINISHES				
190					
191	09 20 00 Gypsum Wallboard Systems				
192	Interior of exterior	960	SF	\$5.00	\$4,802
193	Gypsum sheathing	960	SF	\$5.00	\$4,802
194	Allowance for soffit	1	LS	\$1,000.00	\$1,000
195	09 20 00 Gypsum Wallboard Systems Total				\$10,604
196					
197	09 30 00 Tile				
198	No works anticipated in this section				
199	09 30 00 Tile Total			_	\$0
200					
201	09 51 00 Acoustical Ceiling				
202	ACT ceilings allowance	1,013	SF	\$5.00	\$5,065
203	09 51 00 Acoustical Ceiling Total			_	\$5,065
204					
205	09 65 00 Resilient Flooring				
206	VCT flooring at entrance	566	SF	\$22.00	\$12,441
207	VCT flooring - Lobby, corridors	415	SF	\$4.50	\$1,869



					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
208	Resilient base	229	LF	\$2.50	\$572
209	09 65 00 Resilient Flooring Total				\$14,882
210					
211	09 90 00 Paints and Coatings				
	Miscellaneous painting	1	LS	\$5,600.00	\$5,600
	09 90 00 Paints and Coatings Total				\$5,600
214					
215					
216	10-SPECIALTIES				
217					
218	10 10 00 Visual Display Boards	_		<b>***</b>	<b>**</b>
219	Miscellaneous visual displlay boards	1	LS	\$3,500.00	\$3,500
	10 10 00 Visual Display Boards Total				\$3,500
221	40.04.40 = 11.40				
	10 21 13 Toilet Compartments				
	No works anticipated in this section			_	
	10 21 13 Toilet Compartments Total				
225	40.00.00 5.45%   5.55%				
226	10 20 00-Exterior Louvers	4	Ε.Δ	£4 200 00	£4.200
227	Elevator vent	1	EA	\$1,200.00	\$1,200
228	10 20 00-Exterior Louvers Total				\$1,200
229	40 44 00 Signage				
230	10 14 00 Signage	1 272	SF	\$0.75	<b>¢055</b>
231	Building signage allowance - based on floor area	1,273	SF	Φ0.75	\$955 <b>\$955</b>
232	10 14 00 Signage Total				<b>\$933</b>
	10 51 13 Metal Lockers				
	No works anticipated in this section				0.2
	10 51 13 Metal Lockers Total			_	\$0 <b>\$0</b>
237	10 31 13 Metal Lockers Total				ΨΟ
238	10 44 00 Fire Protection Specialties				
239	Fire extinguishers - Fully recessed/non-rated	4	EA	\$450.00	\$1,800
240	10 44 00 Fire Protection Specialties Total	7	LA	Ψ-30.00 _	\$1,800
241	10 44 00 The Frotection opeciaties Total				Ψ1,000
242	10 28 13 Toilet Accessories				
243	No works anticipated in this section				\$0
244	10 28 13 Toilet Accessories Total				<u>\$0</u>
245					<b>40</b>
246	11-EQUIPMENT	1			
247					



					1,394 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
248	11 31 00 Appliances				
249	No works anticipated in this section			_	\$0
250	11 31 00 Appliances Total				<b>\$0</b>
251					
252	11 40 00 Food Service Equipment				
253	No works anticipated in this section			<u> </u>	\$0
254	11 40 00 Food Service Equipment Total				<b>\$0</b>
255					
256	11 52 13 Projection Screens				
257	No works anticipated in this section			_	\$0
258	11 52 13 Projection Screens Total			_	\$0
259					
260	11 66 23 Gymnasium Equipment				
261	No works anticipated in this section				\$0
262	11 66 23 Gymnasium Equipment Total			_	\$0
263					
264					
265	12-FURNISHINGS				
266					
267	12 24 00 Window Shades				
268	Window shades; exterior	720	SF	\$5.00	\$3,602
269	12 24 00 Window Shades Total			_	\$3,602
270					
271	12 48 13 Entrance Floor Mats & Frames				
272	Entrance floor mats & frames allowance	32	SF	\$35.00	\$1,120
273	12 48 13 Entrance Floor Mats & Frames Total			·	\$1,120
274					
275					
276	14-CONVEYING SYSTEMS				
277					
278	14 24 00-Hydrulic Elevators				
279	Elevator, 4 stops	1	EA	\$190,000.00	\$190,000
280	14 24 00-Hydrulic ElevatorsTotal				\$190,000
281	<b>,</b>				•,
282					
283	21, 22, 23-MECHANICAL				
284	, , <u> </u>	ı			
285	21 00 00 Fire Protection				
286	New Sprinkler Coverage	1,595	SF	\$3.50	\$5,583
	8" Alarm Valve w/ trim	1,000	EA	existing	\$0
_0,	O Alaini vaive W/ tillii	-	LA	existing	ΨΟ



					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
288	8" Backflow Preventer	-	EA	existing	\$0
289	8" Water Service	-	EA	existing	\$0
290	Zone control w/ standpipe	-	EA	existing	\$0
291	FDV Cabinet	-	EA	existing	\$0
292	Shop drawings/hydraulic calculations	1	LS	\$650.00	\$650
293	Permits & Fees	1	LS	\$250.00	\$250
294	Lifts	1	LS	\$500.00	\$500
295	21 00 00 Fire ProtectionTotal				\$6,983
296					
297	22 00 00 Plumbing				
298	Elevator Sump Pump				
299	- SP	1	EA	\$3,850.00	\$3,850
300	Valves and specialties	1	LS	\$250.00	\$250
301	Seismic Restraints	1	LS	\$450.00	\$450
302	Testing	1	LS	\$500.00	\$500
303	Shop Drawing	1	LS	\$700.00	\$700
304	22 00 00 PlumbingTotal				\$5,750
305					
306	23 00 00 HVAC				
307	Elevators Room Split Unit				
308	- ACCU/CU	1	EA	\$5,500.00	\$5,500
309	Cabinet Unit Heaters:				
310	- CUH	5	EA	\$1,050.00	\$5,250
311	Unit Heaters:				
312	- UH	1	EA	\$925.00	\$925
313	Register & Diffusers	1	LS	\$500.00	\$500
314	Volume Dampers	1	LS	\$200.00	\$200
315	Fire Dampers	1	LS	\$400.00	\$400
316	Duct galvanized	1,250	LBS	\$9.00	\$11,250
317	Duct Insulation	350	SF	\$3.75	\$1,313
318	Seal Ductwork	250	LF	\$1.20	\$300
319	Hot & Chilled Water Piping	1	LS	\$10,000.00	\$10,000
320	Insulate Hot & Chilled Water Piping	1	LS	\$3,100.00	\$3,100
321	Equipment Hook-ups:				
322	- Cabinet & Unit Heater	6	EA	\$865.00	\$5,190
323	Equipment Insulation	1	LS	\$1,850.00	\$1,850
324	Misc. Valves & specialties	1	LS	\$3,500.00	\$3,500
325	Demolition	1	LS	\$5,000.00	\$5,000
326	Coring & sleeves	1	LS	\$600.00	\$600
327	Controls	1	LS	\$15,000.00	\$15,000



					1,594 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
328	Seismic Restraints	1	LS	\$400.00	\$400
329	Permits & Fees	1	LS	\$750.00	\$750
330	Testing & Balancing	1	LS	\$1,250.00	\$1,250
331	Rigging & Lifting	1	LS	\$200.00	\$200
332	Shop Drawing	1	LS	\$1,000.00	\$1,000
333	23 00 00 HVACTotal				\$73,478
334					
335					
336	26-ELECTRICAL				
337					
338	26 00 00 Electrical				
339	Interior Electrical				
340					
341	Equipment Wiring				
342	Elevator FSS, feed and connection	1	EA	\$3,500.00	\$3,500
343	Elevator cab power FSS, feed and connection	1	EA	\$1,200.00	\$1,200
344	Sump pump feed and connection	1	EA	\$850.00	\$850
345	CUH/EUH/UH FSS, feed and connection	1	EA	\$850.00	\$850
346	Split unit FSS, feed and connection	1	EA	\$2,500.00	\$2,500
347					
348	Lighting & Branch Power				
349	General lighting	1,594	SF	\$4.50	\$7,173
350	Exit and emergency lighting	1,594	SF	\$0.25	\$399
351	Lighting controls	1,594	SF	\$0.50	\$797
352	Lighting circuitry	1,594	SF	\$2.50	\$3,985
353					
354	Fire Alarm				
355	Initiating device	4	EA	\$175.00	\$700
	Audio/visual device	1	EA	\$145.00	\$145
357	Device box	5	EA	\$30.00	\$150
358	3/4" EMT	150	LF	\$7.00	\$1,050
359	FA cable	230	LF	\$1.25	\$288
360	Testing and programming	1	LS	\$400.00	\$400
361					
362	Security/Card Access System				
363	Cameras, card readers and sensor and cabling	1,594	EA	\$2.00	\$3,188
364	-				
365	Reimbursable				
366	Temp power & lights	1	LS	\$750.00	\$750
367	Seismic restraints	1	LS	\$500.00	\$500



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
-					
368	Fees & Permits	1	LS	\$300.00	\$300
369	26 00 00 ElectricalTotal				\$28,724
370					
371					
372	31- EARTHWORK				
373					
374	31 30 00 Building Excavation				
375	Basement excavation	131	CY	\$11.00	\$1,439
376	Slab on grade excavation	15	CY	\$11.00	\$168
377	Elevator pit excavation	1	EA	\$2,500.00	\$2,500
378	New strip foundation excavation	16	CY	\$11.00	\$173
379	Spread footing excavation	82	CY	\$11.00	\$898
380	premium for ledge removal allowance	10	CY	\$100.00	\$1,000
381	Backfill with selected material from on site	203	CY	\$11.00	\$2,235
382	Disposal off site	40	CY	\$20.00	\$806
383	Gravel base to building	27	CY	\$25.00	\$663
384	Perimeter foundation drain	94	LF	\$18.00 <u> </u>	\$1,683
385	31 30 00 Building Excavation Total				\$11,565
386					
387	31 40 00 Shoring and Underpinning				
388	Underpinning to the existing foundation for new construction	8	CY	\$1,600.00	\$12,800
389	31 40 00 Shoring and Underpinning Total				\$12,800



# **RENOVATION SUMMARY**

		50,589 GSF
ELEMENT	TRADE COST	COST/SF
02 41 19 Selective Structure Demolition	\$54,772	\$1.08
02-EXISTING CONDITIONS TOTAL	\$54,772	\$1.08
03 30 00 Concrete	\$14,963	\$0.30
03-CONCRETE TOTAL	\$14,963	\$0.30
	<b>,</b> ,,,,,,,,,	Ų O.O.O.
04 23 00 Masonry Repair	\$105,000	\$2.08
04-MASONRY TOTAL	\$105,000	\$2.08
	,	·
05 12 00 Structural Steel Framing	\$16,500	\$0.33
05 15 00 Stud Shear Connectors	\$196	\$0.00
05 31 00 Steel Decking	\$4,550	\$0.09
05 50 00 Metal Fabrications	\$31,000	\$0.61
05 81 00-Expansion Joint Systems	\$0	\$0.00
05-METALS TOTAL	\$52,246	\$1.03
	. ,	
06 10 00 Rough Carpentry	\$11,131	\$0.22
06 20 00 Finish Carpentry	\$20,000	\$0.40
06 40 00 Architectural Woodwork	\$0	\$0.00
06-WOODS & PLASTICS TOTAL	\$31,131	\$0.62
07 16 13 Waterproofing and Dampproofing	NIC	
07 21 00 Thermal Insulation	NIC	
07 26 00 Vapor Retarders	NIC	
07 50 00-Roofing	\$0	\$0.00
07 84 00 Firestopping	\$4,000	\$0.08
07 92 00 Joint Sealants	\$4,500	\$0.09
07-THERMAL & MOISTURE PROTECTION TOTAL	\$8,500	\$0.17
08 11 13 Hollow Metal Doors and Frames	\$5,645	\$0.11
08 14 16 Flush Wood Doors	\$8,700	\$0.17
08 31 00 Access Doors and Panels	\$5,400	\$0.11
08 33 23 Overhead Coiling Doors	NIC	
08 43 13 Aluminum-Framed Storefronts	\$0	\$0.00
08 44 13 Glazed Aluminum Curtain Walls	\$0	\$0.00
08 51 13 Aluminum Windows	\$0	\$0.00
08 71 00 Door Hardware	\$18,850	\$0.37
08 80 00 Glazing	\$1,500	\$0.03
08-OPENINGS TOTAL	\$40,095	\$0.79
09 20 00 Gypsum Wallboard Systems	\$54,460	\$1.08



# **RENOVATION SUMMARY**

ELEMENT	TRADE COST	COST/SF
	110122001	0001/01
09 30 00 Tile	\$57,070	\$1.13
09 51 00 Acoustical Ceiling	\$10,618	\$0.21
09 64 66-Resilient Wood Flooring	\$0	\$0.00
09 65 00 Resilient Flooring	\$50,622	\$1.00
09 68 00 Carpeting	\$0	\$0.00
09 80 00 Acoustic Treatment	\$0	\$0.00
09 90 00 Paints and Coatings	\$29,123	\$0.58
09-FINISHES TOTAL	\$201,893	\$3.99
10 10 00 Visual Display Boards	\$0	\$0.00
10 21 13 Toilet Compartments	\$19,400	
10 14 00 Signage	\$8,000	\$0.16
10 51 13 Metal Lockers	\$0	\$0.00
10 44 00 Fire Protection Specialties	\$0	\$0.00
10 65 00-Operable Panel Partition	\$0	\$0.00
10 28 13 Toilet Accessories	\$45,720	\$0.90
10-SPECIALTIES TOTAL	\$73,120	\$1.06
11 52 13 Projection Screens	\$0	\$0.00
11 31 00 Appliances	\$0	\$0.00
11 40 00 Food Service Equipment	\$5,000	40.00
11 66 23 Gymnasium Equipment	\$0	\$0.00
11-EQUIPMENT TOTAL	\$5,000	\$0.10
14 24 00 Hydrulic Floyators	\$0	\$0.00
14 24 00-Hydrulic Elevators 14-CONVEYING SYSTEMS TOTAL	\$0 \$0	\$0.00 <b>\$0.00</b>
14-CONVETING STSTEMS TOTAL	<b>\$0</b>	<b>Ф</b> 0.00
21 00 00 Fire Protection	\$14,250	\$0.28
22 00 00 Plumbing	\$249,050	\$4.92
23 00 00 HVAC	\$150,843	\$2.98
21-23 MECHANICAL TOTAL	\$414,143	\$8.19
26 00 00 Electrical	\$576,640	\$11.40
26-ELECTRICAL TOTAL	\$576,640	\$11.40
	<b>40.0,010</b>	,,,,,
Subtotal Carried To Main Summary	\$1,577,503	\$31.18
Camera Camera Camera	<b>\$1,011,000</b>	ΨΟΙΙΙΟ



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
8	Renovation area	50,589	SF		
9		,			
10	02-EXISTING CONDITIONS				
11					
12	02 41 19 Selective Structure Demolition				
13	Demo existing studs partitions	3,324	SF	\$4.50	\$14,958
14	Demo existing masonry partitions	168	SF	\$6.00	\$1,008
15	Premium double door removal	4	EA	\$100.00	\$400
16	Premium single door removal	6	EA	\$50.00	\$300
17	Single door open	1	EA	\$350.00	\$350
18	Double door open	3	EA	\$700.00	\$2,100
19	Remove single door	8	EA	\$120.00	\$960
20	Remove double door	3	EA	\$150.00	\$450
21	Demo toilet compartments	588	SF	\$4.00	Included
22	R & D toilet	13	EA		Included
23	R & D sink	6	EA		Included
24	R & D existing floor and ceiling	898	SF	\$3.00	\$2,694
25	R & D existing bathroom	1,092	SF	\$6.00	\$6,552
26	Cut & patch	1	LS	\$10,000.00	\$10,000
27	Miscellaneous demolition other than above	1	LS	\$15,000.00	\$15,000
28	02 41 19 Selective Structure Demolition Total			·	\$54,772
29					
30					
31	03-CONCRETE				
32					
33	03 30 00 Concrete				
34	Allowance for concrete leveling	998	SF	\$3.50	\$3,493
35	Allow for concrete pads and bases	1	LS	\$5,000.00	\$5,000
36	Slab on deck; 4 -1/2" normal weight				
37	Concrete	12	CY	\$125.00	\$1,500
38	WWF - 10% overlap	770	SF	\$1.00	\$770
39	Place and finish	700	SF	\$6.00	\$4,200
40	03 30 00 Concrete Total				\$14,963
41					
42		_			
43	04-MASONRY				
44					
45	04 23 00 Masonry Repair				
46	Masonry repoint and repair at exterior wall allowance	5,000	SF	\$16.00	\$80,000
47	Rebuilt chimney above roof	1	LS	\$25,000.00	\$25,000



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
40	04 02 00 Massaury Daneir Tatal			_	
48 49	04 23 00 Masonry Repair Total				\$105,000
50	05-METALS				
51					
52	05 12 00 Structural Steel Framing				
53	Structural Steel infill allowance	3	TON	\$5,500.00	\$16,500
54	05 12 00 Structural Steel Framing Total			_	\$16,500
55	_				
56	05 15 00 Stud Shear Connectors				
57	Shear stud allowance	28	EA	\$7.00_	\$196
58	05 15 00 Stud Shear Connectors Total				\$196
59					
60	05 31 00 Steel Decking				
61	Metal floor deck	700	SF	\$6.50	\$4,550
62	05 31 00 Steel Decking Total				\$4,550
63					
64	05 50 00 Metal Fabrications	_		•	•
65	Steel railing modified at existing stair	6	FLT	\$3,500.00	\$21,000
66	Metals for elevator incl. pit ladder & sills see addition building		0=	<b>40 -0</b>	Included
67	Miscellaneous metals	4,000	SF	\$2.50 _	\$10,000
68	05 50 00 Metal Fabrications Total				\$31,000
69	OF 04 00 Expansion Joint Systems				
70	05 81 00-Expansion Joint Systems				
71 72	See addition building 05 81 00-Expansion Joint Systems Total			_	<b>\$0</b>
73	03 of 00-Expansion John Systems Total				40
74					
75	06-WOODS & PLASTICS				
76					
77	06 10 00 Rough Carpentry				
78	Blocking at doors	502	LF	\$3.00	\$1,506
79	Door Installation	29	EA	\$125.00	\$3,625
80	Rough carpentry allowance	4,000	SF	\$1.50	\$6,000
81	06 10 00 Rough Carpentry Total			_	\$11,131
82					
83	06 20 00 Finish Carpentry				
84	Miscellaneous finish carpentry	4,000	SF	\$5.00	\$20,000
85	06 20 00 Finish Carpentry Total			_	\$20,000
86					
87	06 40 00 Architectural Woodwork				



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
88	No work shown in this section			_	
89	06 40 00 Architectural Woodwork Total				\$0
90					
91					
92	07-THERMAL & MOISTURE PROTECTION				
93					
94	07 16 13 Waterproofing and Dampproofing				
95	No work in Waterproofing and Dampproofing section			_	NIC
96	07 16 13 Waterproofing and Dampproofing Total				NIC
97					
98	07 21 00 Thermal Insulation				
99	No work in Building Insulation section				NIC
100	07 21 00 Thermal Insulation Total				NIC
101					
102	07 26 00 Vapor Retarders				
103	No works anticipated in this section				NIC
104	07 26 00 Vapor Retarders Total				NIC
105					
106	07 50 00-Roofing				
107	No works anticipated in this section				\$0
108	07 50 00-Roofing Total			_	\$0
109					
110	07 84 00 Firestopping				
111	Firestopping penetrations, partitions, etc.	1	AL	\$4,000.00	\$4,000
112	07 84 00 Firestopping Total			_	\$4,000
113	5				,
114	07 92 00 Joint Sealants				
115	Interior caulking and sealants	1	LS	\$4,500.00	\$4,500
	07 92 00 Joint Sealants Total			_	\$4,500
117					* //
118					
119	08-DOORS & WINDOWS				
235					
	08 11 13 Hollow Metal Doors and Frames				
237		17	EA	\$235.00	\$3,995
	Double HM frames	6	EA	\$275.00	\$1,650
	08 11 13 Hollow Metal Doors and Frames Total	J	_/ \	Ψ210.00	\$5,645
125	CO 1. TO HOROW MOULE DOOLS and Frances Total				ψυ,υτυ
	08 14 16 Flush Wood Doors				
		17	EA	\$300.00	\$5,100
127	Single wood door	17	LA	φ300.00	ψο, του



ELEMENT   QUANTITY   UNIT   UNIT   128   Double wood door   6   PR   129   08 14 16 Flush Wood Doors Total   130   131   08 31 00 Access Doors and Panels   132   Access doors   18   EA   133   08 31 00 Access Doors and Panels Total	\$600.00 _	\$3,600 \$8,700 \$5,400 \$5,400
129	_	<b>\$8,700</b> \$5,400
130 131 08 31 00 Access Doors and Panels 132 Access doors 18 EA	\$300.00	\$5,400
131 <b>08 31 00 Access Doors and Panels</b> 132 Access doors <b>18</b> EA	\$300.00 _	
132 Access doors 18 EA	\$300.00 _	
	\$300.00 _	
133 08 31 00 Access Doors and Panels Total		\$5,400
00 0. 00 /100000 B0010 dila i dilata i dilata		
134		
135 08 33 23 Overhead Coiling Doors		
136 No works anticipated in this section	_	NIC
137 08 33 23 Overhead Coiling Doors Total		NIC
138		
139 08 43 13 Aluminum-Framed Storefronts		
140 No works anticipated in this section		\$0
141 08 43 13 Aluminum-Framed Storefronts Total		<b>\$0</b>
142		
143 08 44 13 Glazed Aluminum Curtain Walls		
144 No works anticipated in this section	_	\$0
145 08 44 13 Glazed Aluminum Curtain Walls Total		<b>\$0</b>
146		
288 08 51 13 Aluminum Windows		
288 No works anticipated in this section		\$0
289 08 51 13 Aluminum Windows Total		\$0
151 08 71 00 Door Hardware		
152 Hardware for new door 29 SET	\$650.00	\$18,850
153 08 71 00 Door Hardware Total	_	\$18,850
154		
155 <b>08 80 00 Glazing</b>		
156 Glazing in doors allowance 1 AL	\$1,500.00	\$1,500
157 08 80 00 Glazing Total	_	\$1,500
158		
159		
320 <b>09-FINISHES</b>		
321		
322 09 20 00 Gypsum Wallboard Systems		
324 Corridor partitions 1,892 SF	\$12.00	\$22,704
325 Standard partitions 357 SF	\$7.50	\$2,678
165 Demising partitions 1,034 SF	\$10.00	\$10,340
166 Plumbing chase wall (one side) 368 SF	\$6.50	\$2,389
167 Infill single door opening 1 EA	\$450.00	\$450



	EL EMENT	OHANTITY	LINUT	LINUT DATE	50,589 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
160	Infill double door appring	4	EA	\$900.00	\$900
	Infill double door opening Allowance for soffit	1 1	LS	\$900.00 \$15,000.00	\$900 \$15,000
339	09 20 00 Gypsum Wallboard Systems Total	•	LS	\$15,000.00	\$54,460
340	09 20 00 Gypsuin Waliboard Systems Total				<b>Ф</b> 34,400
340	09 30 00 Tile				
341	Ceramic tile floor - Toilets	998	SF	\$15.00	\$14,970
	Ceramic tile wall - Toilets	2,436	SF	\$15.00	\$36,540
	Ceramic tile base	406	LF	\$10.00	\$4,060
	Threshold	12	EA	\$125.00	\$1,500
	09 30 00 Tile Total	12	_/\	Ψ120.00	\$57,070
342	oo oo ma rotal				ψο1,010
	09 51 00 Acoustical Ceiling				
	ACT ceilings	1,306	SF	\$4.50	\$5,877
	Acoustic ceiling tile, moisture resistant, Toilets	998	SF	\$4.75	\$4,741
	09 51 00 Acoustical Ceiling Total			-	\$10,618
351	<b>3</b>				· -/-
351	09 65 00 Resilient Flooring				
352	VCT flooring	3,178	SF	\$4.00	\$12,712
	Install VCT flooring after abatement remove allowance	3,000	SF	\$4.00	\$12,000
	Resilient base	544	LF	\$2.50	\$1,360
353	Resilient Stair Treads and Risers	1,100	LFR	\$15.50	\$17,050
353	Resilient flooring at landings	1,000	SF	\$7.50	\$7,500
190	09 65 00 Resilient Flooring Total			_	\$50,622
191	-				
192	09 64 66-Resilient Wood Flooring				
193	No works anticipated in this section				\$0
194	09 64 66-Resilient Wood Flooring Total			<del>-</del>	\$0
222					
223	09 68 00 Carpeting				
224	No works anticipated in this section				
198	09 68 00 Carpeting Total			_	\$0
226					
200	09 80 00 Acoustic Treatment				
201	No works anticipated in this section			_	\$0
202	09 80 00 Acoustic Treatment Total			_	\$0
203					
204	09 90 00 Paints and Coatings				
205	Paint GWB walls	7,364	SF	\$1.25	\$9,205
206	Exposed structure (ceiling) - painted; gymnasium	4,038	SF	\$1.65	\$6,663
207	Exposed structure (ceiling) - painted	831	SF	\$1.35	\$1,122



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
208	Painted concrete floors	787	SF	\$1.25	\$984
414	Paint existing doors and frames	29	EA	\$150.00	\$4,350
417	Miscellaneous painting	1	LS	\$6,800.00	\$6,800
211	09 90 00 Paints and Coatings Total			<del>-</del>	\$29,123
212					
213					
214	10-SPECIALTIES				
215					
216	10 10 00 Visual Display Boards				
217	No works anticipated in this section			_	\$0
218	10 10 00 Visual Display Boards Total			_	\$0
219					
220	10 21 13 Toilet Compartments				
252	Toilet partition stall	10	EA	\$1,100.00	\$11,000
222	Toilet partition stall, ADA	6	EA	\$1,400.00	\$8,400
223	10 21 13 Toilet Compartments Total				\$19,400
224					
225	10 14 00 Signage				
226	Allow for Lettering, school name	1	EA	\$5,000.00	\$5,000
227	Building signage allowance - based on floor area	4,000	SF	\$0.75	\$3,000
228	10 14 00 Signage Total				\$8,000
229					
230	10 51 13 Metal Lockers				
231	No works anticipated in this section			_	\$0
232	10 51 13 Metal Lockers Total				<b>\$0</b>
233					
234	10 44 00 Fire Protection Specialties				
235	No works anticipated in this section			_	\$0
236	10 44 00 Fire Protection Specialties Total				\$0
237					
238	10 65 00-Operable Panel Partition				
239	No works anticipated in this section			_	
240	10 65 00-Operable Panel Partition Total				\$0
241					
	10 28 13 Toilet Accessories				
	Toilet room accessories and compartments - gang	6	EA	\$7,000.00	\$42,000
	Toilet room accessories - private	7	EA	\$500.00	\$3,500
	Janitor mop shelf	2	EA	\$110.00	\$220
246	10 28 13 Toilet Accessories Total				\$45,720
247					



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
248	44 FOURMENT				
249	11-EQUIPMENT				
250	44 FO 40 Projection Concerns				
251	11 52 13 Projection Screens				
	No works anticipated in this section			-	<b></b>
	11 52 13 Projection Screens Total				\$0
254	44 04 00 Applicance				
255	11 31 00 Appliances				ΦO
256	No works anticipated in this section			-	\$0
	11 31 00 Appliances Total				\$0
258	44.40.00 Fee 1.0 cm to 2 Feet to 2004				
259	11 40 00 Food Service Equipment			<b>#</b> 5 000 00	Φ= 000
260	Food service upgrade for accessibility	1	LS	\$5,000.00	\$5,000
261	11 40 00 Food Service Equipment Total				\$5,000
262	11 66 23 Gymnasium Equipment				
263					<b>የ</b> ስ
	No works anticipated in this section			-	\$0 <b>\$0</b>
265 266	11 66 23 Gymnasium Equipment Total				\$0
267					
268	14-CONVEYING SYSTEMS				
269	14-CONVETING STSTEMS				
270	14 24 00-Hydrulic Elevators				
271	Elevator				See Addition
272				-	\$0
273	14 24 00-Hydrano Lievators Total				ΨΟ
274					
275	21, 22, 23-MECHANICAL				
276	ZI, ZZ, ZO MEONANOAE				
	21 00 00 Fire Protection				
	Modify Existing Sprinkler Coverage	4,000	SF	\$0.75	\$3,000
279	8" Alarm Valve w/ trim	-,000	EA	existing	\$0
280	8" Backflow Preventer	_	EA	existing	\$0 \$0
	8" Water Service	_	EA	existing	\$0 \$0
	Zone control w/ standpipe	<u>-</u>	EA	existing	\$0 \$0
	FDV Cabinet	_	EA	existing	\$0 \$0
284	Shut Down & Drain system	- 1	LS	\$2,250.00	\$2,250
	Demolition	1	LS	\$3,000.00	\$3,000
286	Shop drawings/hydraulic calculations	1	LS	\$2,500.00	\$3,000 \$2,500
287			LS	\$2,000.00	\$2,000
201	FEITHING ON FEED	1	LO	φ∠,∪∪∪.∪∪	φ∠,000



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
288	Lifts	1	LS	\$1,500.00	\$1,500
289	21 00 00 Fire Protection Total				\$14,250
290					
291	22 00 00 Plumbing				
292	Gas Fired Hotwater Tank:				
293	- BLR-1	1	EA	\$30,000.00	\$30,000
294	Circulating Pumps	1	EA	\$1,250.00	\$1,250
295	Mixing Valves				
296	- MV-1	1	EA	\$2,500.00	\$2,500
297	Misc. Pumps & ejectors	1	EA	\$5,000.00	\$5,000
298	3" Water Service w/ meter	1	EA	\$5,250.00	\$5,250
299	Fixtures:				
300	Water closet (replace)	22	EA	\$2,800.00	\$61,600
301	(1010)	6	EA	\$3,600.00	\$21,600
	(	2	EA	\$2,800.00	\$5,600
303	Lavatory (replace)	16	EA	\$2,800.00	\$44,800
	Lavatory (new)	6	EA	\$3,600.00	\$21,600
305	Mop Sink (new)	1	EA	\$3,600.00	\$3,600
306	Hose bibbs HB-A	2	EA	\$325.00	\$650
307	Floor Drains:				
308	- FD-A (bathrooms)	6	EA	\$1,250.00	\$7,500
309	Gas Piping:	1	LS	\$3,000.00	\$3,000
310	Charles and Charles Cycles.	1	LS	\$2,000.00	\$2,000
311		1	LS	\$10,000.00	\$10,000
	Lift	1	LS	\$3,250.00	\$3,250
	Valves and specialties	1	LS	\$4,850.00	\$4,850
	Seismic Restraints	1	LS	\$4,500.00	\$4,500
	Testing	1	LS	\$4,250.00	\$4,250
	Shop Drawing	1	LS	\$6,250.00	\$6,250
	22 00 00 Plumbing Total				\$249,050
318					
	23 00 00 HVAC				
	Boiler:				
321	- B-1 & 2 3000 MBH	-	EA	existing	\$0
322	Air Handling Units				
323	- AHU-1	1	EA	\$64,000.00	\$64,000
324	Bathroom Exhaust Fans	1	LS	\$7,500.00	\$7,500
	Convector Heaters:				
326	- C	2	EA	\$785.00	\$1,570
327	Register & Diffusers	1	LS	\$2,000.00	\$2,000



					50,589 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
328	Volume Dampers	1	LS	\$850.00	\$850
329	Fire Dampers	1	LS	\$985.00	\$985
330	Duct galvanized	2,000	LBS	\$9.00	\$18,000
331	Duct Insulation	650	SF	\$3.75	\$2,438
332	Seal Ductwork	500	LF	\$1.20	\$600
333	Hot & Chilled Water Piping	1	LS	\$10,000.00	\$10,000
334	Insulate Hot & Chilled Water Piping	1	LS	\$3,350.00	\$3,350
335	Misc. Valves & specialties	1	LS	\$3,500.00	\$3,500
336	Demolition	1	LS	\$5,000.00	\$5,000
337	Coring & sleeves	1	LS	\$2,100.00	\$2,100
338	Controls	1	LS	\$15,000.00	\$15,000
339	Seismic Restraints	1	LS	\$1,500.00	\$1,500
340	Permits & Fees	1	LS	\$2,500.00	\$2,500
341	Testing & Balancing	1	LS	\$3,500.00	\$3,500
342		1	LS	\$2,200.00	\$2,200
343		1	LS	\$4,250.00	\$4,250
344	23 00 00 HVAC Total			_	\$150,843
345					. ,
346					
347	26-ELECTRICAL				
348		'			
349	26 00 00 Electrical				
350	Interior Electrical				
351					
352	Demolition				
353	Demolition and make safe	1	LS	\$10,000.00	\$10,000
354				<b>*</b> ***,*******	,
355	Gear & Distribution				
356	Normal Power				
357	1200A 208/120V switchboard	1	EA	\$30,000.00	\$30,000
358	400A feed to backfeed panelboard (allow)	50	LF	\$102.00	\$5,100
359	Associated panelboards and feeders	50,589	LS	\$2.00	\$101,178
360	Grounding	1	LS	\$3,500.00	\$3,500
361				. ,	
362	Emergency Power				
363	Associated ATS's, panelboards and feeders	50,589	LS	\$1.50	\$75,884
364					
365	Equipment Wiring				
366	AHU FSS, feed and connection	1	EA	\$3,500.00	\$3,500
367	Fan FSS, feed and connection	1	EA	\$850.00	\$850
368	CUH/EUH/UH FSS, feed and connection	6	EA	\$850.00	\$5,100



	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	ELEIVIEN	QUANTITY	UNIT	UNITRATE	6031
369	Pump FSS, feed and connection	1	EΑ	\$1,200.00	\$1,200
370	Misc. equipment wiring feed and connections	50,589	SF	\$0.25	\$12,647
371	3	,		• -	Ψ12,011
372	Lighting & Branch Power				
373		4,000	SF	\$5.00	\$20,000
374	Exit and emergency lighting	4,000	SF	\$0.25	\$1,000
375	Lighting controls	4,000	SF	\$1.00	\$4,000
376	Lighting circuitry	4,000	SF	\$3.00	\$12,000
377					
378	Fire Alarm				
379	New control panel	1	LS	\$7,500.00	\$7,500
380	Initiating device	70	EA	\$135.00	\$9,450
381	Audio/visual device	80	EA	\$115.00	\$9,200
382	Visual device	9	EA	\$105.00	\$945
383	Modules	20	EA	\$135.00	\$2,700
384	Device box	180	EA	\$30.00	\$5,400
385	3/4" EMT	5,400	LF 	\$7.00	\$37,800
386	FA cable	8,100	LF	\$1.25	\$10,125
387	Testing and programming	1	LS	\$1,500.00	\$1,500
388 389	Tolonhono/Data/CATV				
390	Telephone/Data/CATV Rough-in	50,589	SF	\$1.00	\$50,589
391	Devices and cabling	50,589	SF	\$1.50 \$1.50	\$75,884
392	Modify and upgrade existing IDF Fit-out closets	30,303	LS	\$3,500.00	\$3,500
393	Modify and approach oxioning 121 The out closeste	•		ψο,σσσ.σσ	ψο,σσσ
394	PA/Clock System				
395	Modify and upgrade existing head end equipment	1	LS	\$5,000.00	\$5,000
396	Speakers, clocks, handsets and cabling	50,589	SF	\$1.00	\$50,589
397	•				
398	Security/Card Access System				
399	Modify and upgrade existing head end equipment				NIC
400	Cameras, card readers and sensor and cabling				NIC
401					
402	Lightning Protection				
403	Lightning protection system				NIC
404					
405	Reimbursable				
406	Temp power & lights	1	LS	\$10,000.00	\$10,000
407	Seismic restraints	1	LS	\$5,000.00	\$5,000
408	Fees & Permits	1	LS	\$5,500.00	\$5,500
409	26 00 00 Electrical Total				\$576,640