# **CANTON PUBLIC SCHOOLS**

Dr. Jennifer Fischer-Mueller Superintendent of Schools

> Debra L. Bromfield Director of Student Services

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Patricia Kinsella Assistant Superintendent

Barry S. Nectow School Business Administrator

To develop students who are competent and creative thinkers, curious and confident learners, and compassionate citizens.

Superintendent's Report School Committee Meeting of Thursday, January 3, 2019

> Jennifer Fischer-Mueller, Ed.D. Superintendent of Schools

#### **Superintendent Activities Highlights**

<u>New CPS Website</u>: I am delighted to announce that the Canton Public Schools has a new website. Thank you to the Website Transition Committee, April Goran, Joanne Teliszewski, Julie Foley, Julie Shore, Justin Martin, Lauren Mahan, Lisa Hansen, Sarah Donovan, Patricia Kinsella and Mike Barucci for their countless hours and careful work to complete this transition. We hope you will find the new site an efficient tool for meeting our community's needs. A special thank you to Mike Barucci and Patricia Kinsella for their steadfast work on this monumental task. Please see attached memo for additional information.

#### **Updates**

# Dean S. Luce Principal Search Process:

Before sharing details of the hiring process, I would like to take this opportunity to thank Principal Robie Peter for 32 years of tireless service to the students, staff, and families of the Canton Public Schools. Her contributions are gratefully acknowledged, and we wish her the very best of luck in her retirement from the Canton Public Schools at the end of this school year.

The principal search process includes multiple opportunities for families and staff members to share their thinking about the qualities and skills they see as most important in a new Luce Principal. Based upon that profile, and after gathering input throughout the entire search process, I will appoint a new Principal, in accordance with Massachusetts law (Ch. 71, Section 59B) and Canton School Committee policy (CBC). Currently, the plan is to bring the candidate to the School Committee meeting on either February 7 or February 28.

We have asked the Canton Teachers Association, the Canton Educational Support Personnel Association (Unit E), the Administrative Assistants Union and the Luce CAPT to recommend members for inclusion on the Search Committee. Discussion dates have been scheduled to focus on identifying the qualities and skills necessary in the next Principal. Luce staff discussion dates are January 8 at 7:10am and January 9 at 3:15pm. The Luce parent discussion date is January 8 at 9:00am and 7:00pm. In addition to these discussions, an anonymous survey is available

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[https://www.surveymonkey.com/r/7G5MYR6] where staff and parents are invited to share their thoughts. The survey will remain open until Tuesday, January 8, 2019 at 5:00 p.m.

Assistant Superintendent, Ms. Patricia Kinsella is Co-Chair of the Search Committee with me. If you have any questions about the search for a new Principal for Luce Elementary School, please feel free to contact me or Ms. Patricia Kinsella. Staff and community voices will be critical to developing a clear profile of the dynamic and inspiring leader we seek for the Dean S. Luce Elementary School.

# **Indicators of Excellence**

<u>CHS Freshman Chess Champion</u>: Congratulations to Suraj Ramanathan who finished 13th out of 100 grade 9 participants at the National K-12 chess championship held in Orlando, Florida on December 14-16. Suraj has been playing chess since he was in kindergarten.

Jan. 7	8th Grade Open House and Showcase, 6-8pm, CHS
Jan. 9	Early Release - PK-5 Common Planning, 6-12 PD
Jan. 11-12	Senior Districts Music Festival For students in grade 9-12 who were accepted for the Senior Districts Music Festival.*The Rodman parking lot will have extra cars and there may be some congestion in the morning as students will be arriving from 8:15-9:00am.
Jan. 14	Hansen 4&5 Grade Winter Concert Families Welcome- <i>10am</i> Hansen Elementary School
Jan. 15	GMS Grade 6 Winter Concert Public Welcome- 7pm CHS Auditorium
Jan. 15	JFK 4&5 Grade Winter Concert Families Welcome - 10:30am JFK Elementary School
Jan. 16	Luce 4&5 Grade Winter Concert Families Welcome - <i>10am</i> Luce Elementary School
Jan. 17	GMS Grade 6 Winter Concert SNOW DATE
Jan. 17	Rodman Early Childhood Open House, 6-7pm Snow date: Jan 22, 6-7pm Acceptance for the lottery are due by Friday, Jan. 25th. <i>(see attached)</i>
Jan. 17	School Committee Meeting Starts at 7pm

# **Important Dates and Events**

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# MEMO

To: Jennifer Fischer-Mueller, Superintendent
From: Patricia Kinsella, Assistant Superintendent
Date: January 3, 2019
Re: CPS Website Transition 2018-19

The new Canton Public School website launched on 12/31/18. This report provides an update on the district's transition to the new site.

#### Rationale for the transition

The vendor that previously hosted the district's website ceased hosting operations on 12/31/18. In anticipation of this deadline, the district established a Website Transition Committee in fall 2017.

# Website Transition Committee

Patricia Kinsella, Assistant Superintendent, and April Goran, former Administrator for Instructional Technology, co-chaired the Website Transition Committee (see member list at bottom). The Committee conducted a needs assessment with staff and community members to provide a direction for vendor selection and design direction. The Committee also researched potential vendors and made a final vendor recommendation to the Superintendent.

#### **Transition Committee Actions**

- Develop and implement community survey and analyze <u>over 400 responses</u> regarding district needs and priorities in new website
- <u>Review existing websites</u> of schools, districts, non-profits, and universities to identify features that would and would not serve CPS well
- Develop list of criteria to evaluate potential vendors
- Consult with neighboring districts that have conducted vendor searches in recent years
- Review 40 websites and identify vendors for each
- Identify five vendors to make presentations to Committee
- Participate in and evaluate vendor presentations
- Score each vendor and identify top three
- Once Campus Suite emerged as top candidate, conduct reference checks with <u>seven district</u>s currently under contract with Campus Suite

- Evaluate Campus Suite's draft Service Level Agreement (SLA); share SLA with Barry Nectow, Mike Wentland, and Mike Barucci for review
- Conduct follow-up calls and web conference with Campus Suite to ensure all questions relating to criteria for selection document had been answered fully
- Develop bid selection document
- Send the contract out to bid with the three top-scoring vendors

# Final recommendation to Superintendent

<u>Campus Suite</u> emerged as the highest-scoring vendor, with 10 of 12 Committee members voting it their firstchoice candidate. In accordance with MA procurement regulations, we invited Campus Suite and two other vendors, Edlio, and FinalSite, to submit bids. Campus Suite returned the lowest of the three bids.

# **Compelling features of Campus Suite product**

- Lowest pricing of five vendors analyzed
- Clean, streamlined design, with choice of preset templates or custom design
- Excellent support during and after design phase, including best online support documents of any vendor reviewed
- Management of data migration from old website to new
- Consistent favorable reviews from districts currently under contract
- Significant attention to ADA compliance, including favorable pricing for ADA monthly monitoring service
- Full HTML control, allowing CPS staff flexibility when administering site
- Hosted on Amazon Web Services, ensuring stability, security, and durability (i.e., minimizes chances that website will be 'down')
- District retains full ownership of all content posted on site

To review several examples of Campus Suite's work, see <u>Bishop Stang</u>, <u>Elmwood Park Community Unit School</u> <u>District</u>, <u>Academy of Notre Dame</u>, and <u>Norwood</u>.

# **Post-purchase process**

April Goran and Mike Barucci, Interim District Technology Specialists, began leading the coordination with Campus Suite on data migration in the early summer. Summer work included establishing early design parameters, as well. Mike Barucci and Patricia Kinsella led design work through the fall, including coordination with Campus Suite regarding compliance with the Americans with Disabilities Act (ADA).

Mike Barucci and the elementary Instructional Technology Teachers provided professional development to teachers in how to manage their classroom websites on Campus Suite. All staff received a survey inviting classroom website owners to let us know whether they wanted to transfer their page to the new district site. In addition, classroom site owners were offered PD during early release days to learn how to use the site editing tools.

The draft timeline for transition included a test period in the fall of at least several weeks during which the new website would be available offline to a small group of users, including parents. The test period would help us identify and remediate design and functionality issues before the website went live. Because of decreased

administrative capacity with the departure of Ms. Goran, however, we were unable to complete the website in time for the offline test period. We appreciate the willingness of staff and families to identify trouble spots as we launch in January.

#### Next steps: January - March

January	Identify and remediate functionality issues			
	Identify and remediate high-priority content issues			
Late Jan.	Provide training to key staff on managing school and department webpages			
February	Continue cleanup and design with school and department staff			
End of Feb.	Provide first analysis of launch, including Google analytics of usage patterns			
March	Expand training to include additional staff			

## Website Transition Committee members

- April Goran and Patricia Kinsella, Co-Chairs
- Joanne Teliszewski, CHS Librarian
- Julie Foley, JFK Webmaster
- Julie Shore, CHS Dean of Students
- Justin Martin, Hansen Instructional Technology Teacher
- Lauren Mahan, Hansen Webmaster
- Lisa Hansen, Hansen Webmaster
- Mike Barucci, GMS & Hansen Technology Specialist
- Sara Donovan, GMS Instructional Technology Teacher
- Additional participants in vendor presentations:
- Catherine DeMassi, GMS Home/School Interventionist
- Katie Doherty, Elementary Home/School Interventionist
- Leanne Kaplan, Elementary School Evaluator, School Psychologist



781-821-5060 x1505

Donna Kilday, Early Childhood Coordinator

kildayd@cantonma.org

# Rodman Early Childhood Program

# **OPEN HOUSE**

Thursday, January 17<sup>th</sup> from 6:00 - 7:00pm

(Snow Date – Tuesday, January 22<sup>nd</sup>)

The Canton Public Schools would like to invite you and your preschooler to visit our quality, developmentally appropriate, multisensory early childhood program. In our language based classrooms, led by highly qualified teachers, preschoolers of all ability levels play and learn together in an inclusive environment that nurtures diversity, cooperation, understanding, and acceptance. Additional information including schedules, tuition, and our application can be found on our website at

http://www.edline.net/pages/RodmanEarlyChildhoodProgram.

Spots will be awarded through a lottery system the week of January 28<sup>th</sup>. Acceptance letters will be sent through the mail the week of February 4<sup>th</sup>.

To learn more about the preschool program, please contact Donna Kilday, Early Childhood Coordinator, at 781-821-5060 x1505 or kildayd@cantonma.org.

If you have any questions regarding the lottery, please contact Susan Crespi, Administrative Assistant, at 781-821-5060 x1503 or <a href="mailto:crespis@cantonma.org">crespis@cantonma.org</a>.

# \*APPLICATIONS FOR THE LOTTERY ARE DUE BY FRIDAY, JANUARY 25<sup>th</sup>. OPEN TO CANTON RESIDENTS ONLY.



# Rodman Early Childhood Program

# **2018 Preschool Tuition Comparison-Community Preschools**

#### Area Integrated Preschools and Community Preschools Yearly Tuition

	Canton current (9-2)	Canton 2% increase	Canton 3% increase	Walpole	Norwood	Stoughton	Sharon	Blue Hills	Canton Community kindergarten
2 day 10 hours per week	\$2622	\$2674	\$2727	\$2650	\$3400 (comparabl e to ten hours)	\$3000	N/A	N/A	N/A
3 day 15 hours per week	\$3933	\$4012	\$4051	N/A	N/A	N/A	\$3953	12 hours per week \$2160 year	N/A
4 day 20 hours per week	\$5244	\$5349	\$5402	N/A	N/A	\$5000	N/A	N/A	\$3310
5 day 25 hours per week	\$6555	\$6686	\$6752	\$4600	\$6000	N/A	\$7183	N/A	N/A

Information on Tuition Assistance:

- Current Net Tuition Assistance for families for the 18-19 school year = \$75,000
- Of families receiving assistance, 60% are in a five day program
- There are currently 18 families receiving assistance. This constitutes 28% of our community peers

# **INCREASE SPECIAL EDUCATION STABILIZATION FUND**

To see what sums of money the Town will vote to raise and appropriate or transfer from any available funds or borrow pursuant to any applicable statute, in order to increase any Special Education Stabilization Fund of the Town established pursuant to MGL Chapter 40, section 13E, or to take any other action related thereto.





... establishing a pathway forward

# **Final Report**

December 13, 2018

Dore & Whittier Architects, Inc.

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# Appendix I: Task One Workshop

Presentation Material Meeting Notes

# Appendix II : Meetings

Presentation Material Meeting Notes

# Appendix III : Rodman Building Structural Evaluation

# Appendix IV: Cost Estimates

Budget Worksheets for each option PM+C Cost Estimate

# ACKNOWLEDGEMENTS

Dore & Whittier Architects, Inc. would like to acknowledge the following individuals from the Canton School District for their assistance in the Canton Public Schools Feasibility Study

Dr. Jennifer Fisher-Mueller	Superintendent
Patricia Kinsella	Assistant Superintendent
Barry Nectow	School Business Administrator
Bob McCarthy	Chairman, Canton Building Renovations Committee
Brian Lynch	Director of Facilities
Deborah Bromfield	Director of Student Services
Donna Kilday	Early Childhood Coordinator
Debbie Rooney	Director of Teaching & Learning Pre-Kindergarten-8th
Derek Folan	HS Principal
Sarah Shannon	Galvin MS Principal

#### **DESIGN TEAM**

Brad Dore	Dore & Whittier, Principal
Jason Boone	Dore & Whittier, Educational Planner
Mike Pirollo	Dore & Whittier, Educational Planner
Maria Fernandez-Donovan	Dore & Whittier, Project Manager
Mehul Dhruv	Engineers Design Group

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# **EXECUTIVE SUMMARY**

## **Study Overview**

In May of 2018, the Town of Canton, through its Building Renovation Committee, hired Dore & Whittier Architects to conduct a feasibility study to explore topics identified in the District-wide Master Plan Report of October 2017. The purpose of this study was to include cost estimates for a potential repurposing of the Marilyn G. Rodman Building as an 8th-Grade Academy, the design and construction of modular classrooms at one or more of Canton's elementary schools, and potential options for renovating District offices. D&W structured the feasibility study around these three tasks in order to achieve the following goals:

- 1. Evaluate the feasibility of renovating the Marilyn G. Rodman Building to potentially serve as an 8th-Grade Academy
- 2. Evaluate the feasibility of relocating Pre-K students in several scenarios:
  - a. At each elementary school, in modular classrooms
  - b. At each elementary school, integrated into the building
  - c. At the Rodman building
- 3. Evaluate the feasibility of renovating the Marilyn G. Rodman Building to,
  - a. improve the quality of spaces for District offices and,
  - b. support both District offices and an expanded Pre-K program.

**Task One -** Evaluate the feasibility of renovating the Marilyn G. Rodman Building to potentially serve as an 8th-Grade Academy

The District's Master Plan explored a variety of grade configurations to support current and projected student enrollment. One configuration – an option where 8<sup>th</sup> grade was removed from Galvin Middle School and relocated to the Rodman building as a stand-alone 8th-Grade Academy next to the Canton High School rose to the top as one worth more study.

Task One began with an exploration of current 8th-Grade Academies in Massachusetts along with academic research on 8th-Grade Academies as a transitional tool to ease the shift from middle school to high school. Currently, nine districts in the state have an 8th-Grade Academy as part of their overall program, and academic research leans more toward 9<sup>th</sup> grade as the more typical year for transitional, academy-type programs.

Task One also included structural investigations at Rodman and further research into Canton Public Schools' educational goals to determine the feasibility of implementing an 8th-Grade Academy at the Rodman Building.

The completion of Task One focused primarily on responding to the following questions:

- 1. Would the Rodman Building's structural design support a renovation that would not require a substantial structural intervention?
- 2. Why have an 8th-Grade Academy? What does academic research and current precedents reveal?
- 3. What is the student educational experience? What are students doing? How are they demonstrating learning? Communicating? Working?
- 4. What are the potential impacts of this program on students, staff, culture, schedule, transportation, budget, etc.?

In order to more closely examine educational program questions and potential solutions, D&W took the District's Working Group through a series of gallery walks and round-table conversations during an 8th-Grade Academy workshop. As part of the conversation, District administrators agreed on the vision for an 8<sup>th</sup>-Grade experience as one in which students would be active participants and leaders of their own experiential, interdisciplinary, and personalized learning. An in-depth review revealed, however, that the additional cost to renovate Rodman and the cost associated with District-wide impacts to staffing, transportation, scheduling, and resources would most likely not be supported by the Town at this time. Though the focus group philosophically agreed with the academic, social, and emotional benefits of an 8th-Grade Academy, they could not fully justify having the academy in this separate building given the cost and the fact that a similar program could be developed at the current middle school.

Due to the District's determination that an 8th-Grade Academy is not currently feasible, Dore & Whittier did not pursue cost estimates for this option.

Task Two – Evaluate the feasibility of relocating Pre-Kindergarten in several scenarios

The District's Master plan revealed a public desire to explore the possibility of decentralizing Pre-Kindergarten so that students could attend Pre-K in their neighborhood school. In response, Task Two focused on evaluating options for the placement of Pre-K students using three different scenarios:

Option 1: Pre-K placed in modular classrooms at each elementary school Option 2: Pre-K integrated into each elementary school

Option 3: Pre-K placed at the Rodman building where they currently reside.

In each scenario, a total of 8 and 9 classrooms were used given the District's estimated Pre-K enrollment number of 175 students, as determined during the Master Plan Study. D&W tested feasibility using the following program needs provided by the District:

- 8-9 Pre-K Classrooms (with internal bathrooms)
- Family Room
- OT/PT Room
- Speech and Language Room
- Staff Room
- Administration Area
- General Office/Waiting Area
- Nurse
- Indoor Motor Room

#### **Option 1 – Modular Additions at Each Elementary School**

D&W tested the feasibility of a modular addition at each elementary school, including three 1,200 sf classrooms with internal bathrooms per MSBA guidelines. The configuration of classrooms at each school varied based on site constraints and options for connecting the modular addition to the main building. At both the John F. Kennedy Elementary School and Dean S. Luce Elementary School classrooms were configured along a single corridor, however, at Lt. Peter M. Hansen Elementary School, where more space was available, classrooms were configured in a double-loaded corridor with an additional space to be used as a teaching space, office space, or student support space at the District's discretion. D&W determined two alternative options for modular placement at Hansen Elementary School and one option at both JFK and Luce Elementary Schools. In all three locations, Pre-K would need to utilize their connection to the main building to meet all program needs. This would include sharing student support services, the nurse, administration areas, and the gymnasium, and would in general, place a greater demand on the staff at each school.

#### **Option 2 – Pre-K Integrated at Each Elementary School**

D&W tested feasibility of Pre-K being integrated into each building, with a possible shuffling and relocation of another grade level into the modular additions at each school as identified in Option 1. At first glance, this relocation of another grade appeared more cost effective given that Pre-K classrooms required 1,200 sf with internal bathrooms per MSBA guidelines whereas classrooms for grades 1-8 required 950 sf with no bathroom requirements. Upon further investigation, D&W determined that relocating another grade would be challenging since each school has, on average, a total of 4 sections per grade level, one more than the 3 modular classrooms planned for Option 1: Pre-K at each school. This would result in splitting grade level clusters and/or the adding a fourth modular classroom at each location, which, in some cases, the site would not support. Overall, Option 2 could potentially be more expensive than Option 1 and could ultimately disrupt a larger population of students given the relocations of multiple grade levels. As is the case in Option 1, Option 2: Pre-K would need to leverage staff and space within each main building to meet program needs. It is worth noting, that the program

requirement for classrooms with internal bathrooms would not be fulfilled in this option as not all classrooms with internal bathrooms would be available for Pre-K at each school. Again, as in Option 1, sharing student support services, the nurse, administration areas, gymnasium, and would in general, place a greater demand on the staff at each school.

#### **Option 3 – Pre-K to Remain at Rodman Building**

In Option 3, D&W tested feasibility of Pre-K to remain at the Rodman Building and share the space with District offices. In this option, D&W explored layouts for an 8- and 9-classroom configuration spread out on two floors – the lower and main level – with the remaining space utilized by District offices and/or a future tenant. On the main level, where space is shared by Pre-K and District offices, a set of security doors would provide additional separation.

As a means of limiting overall cost and project scope, D&W worked to remain within the existing partition walls at Rodman, which limited classroom sizes to approximately 726-943 sf, smaller than MSBA guidelines but in line with Pre-K classroom sizes if they were to relocate into the main building at each school. In this option, the added benefit would be the inclusion of internal bathrooms for each classroom. Both 8- and 9-classroom options leverage a new entry location and entry sequence to improve security, overall space layout, and options for relocating the playground closer to the building.

Of all options considered, allowing Pre-K to expand its program at the Rodman Building appears to provide the greatest overall benefit. Leveraging the existing building allows Pre-K to spread out on two floors where clusters of classrooms can create small neighborhoods within the larger space. Pre-K staff and students have their own specific space tied directly to the developmental needs of the age group without sharing spaces designed for older students. Specifically, classrooms would all have internal bathrooms, and an assigned Indoor Motor Room wouldn't need to double as a gym for an entire student body. Ultimately, however, this solution would not support the interest in decentralizing Pre-K.

Task Three – Evaluate the feasibility of renovating the Rodman Building for District offices

Task Three focused on the feasibility of repurposing the Marilyn G. Rodman Building to simultaneously support both District offices and the growing Pre-K program, with the assumption that the Pre-K program would need to accommodate up to eight or nine classrooms with internal bathrooms and additional spaces for staff and student support services.

Dore & Whittier tested the feasibility of supporting both programs within the Rodman building using two guidelines: 1) the idealized space summary as identified in the District-wide Master Plan report of October 2017, and 2) Pre-K program needs as identified by the District. D&W also considered the current location of Pre-K classrooms, District Offices, and spaces used by a third-party tenant as a way of understanding how the building currently functions.

For this portion of the feasibility study, District offices were placed on the main and upper levels, leaving the Pre-K program in the same location as Task 2, Option 3. D&W evaluated a repurposing of the Rodman Building using the assumption that if Pre-K was to decentralize in the future, the same renovated vacant space with its own entry could then be utilized by a third-party tenant. Similarly, if District offices were ever to relocate, the main and upper levels could be rented.

# **Costs Estimates**

D&W worked with cost estimator, PM&C, to prepare the conceptual cost estimates for each option described in Task 2 and Task 3. Cost estimates include hard costs and soft costs to determine overall project costs. Each estimate represents a total project cost calculated using the following methodology:

<u>Constructions Costs</u> (Materials, Contractor Overhead and Profit, escalation)

A: Direct Construction Costs = Cost Quantity x Unit Cost plus 3% escalation per year B: Design contingency = A x 15%

Given the conceptual nature of this study, the design contingency represents the level of uncertainty of specific design choices.

- C: Bonds and Insurance = (A+B) x 1.75%
- D: Overhead and Profit = (A+B) x 4%
- E: General Conditions = (A+B) x 10%
- F: Total Construction Cost = A + B + C + D + E

<u>Soft Costs</u> (Design fees, Consultant Fees, Testing Services, Commissioning, etc.) G : Soft Costs were estimated individually approximately = F x 25%

#### Owner's Contingency

H : Owner's Contingency = F x 10%

An Owner's contingency is typical in most construction projects and represents the Owner's choice and ability to change their mind about design and construction decisions.

<u>Total Project Cost</u> J : Total Project Cost = F + G + H

Cost estimates and worksheets are included in Appendix IV. The following page summarizes all options within Tasks 2-3 and the costs associated with each.

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Option 1 - Modular Addition at Each Elementary School						
Option	Carlos C					
	<u>1.a.i</u> Lt. Peter M. Hansen Elementary School	<u>1.a.ii</u> Lt. Peter M. Hansen Elementary School	<u>1.b</u> John F. Kennedy Elementary School	<u>1.c</u> Dean S. Luce Elementary School		
Total Cost	\$2,654,744	\$2,629,126	\$2,648,766	\$2,593,260		

Option 2 - Pre-K Integrated at Each Elementary School						
Option						
		<u>2.a</u> Pre-K Integrated into Lt. Peter M. Hansen Elementary School	<u>2.b</u> Pre-K Integrated into John F. Kennedy Elementary School	<u>2.c</u> Pre-K Integrated into Dean S. Luce Elementary School		
Total Cost		\$2,629,126	\$2,648,766	\$2,593,260		

Option 3 - Pre-K at Rodman Building & District Offices at Rodman						
Option						
		<u>3.a</u> 8 Pre-K Classrooms	<u>3.b</u> 9 Pre-K Classrooms	District Offices		
Total Cost		\$5,200,886	\$5,646,738	\$9,782,278		

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# **General Findings & Recommendations**

- Dore & Whittier confirms that renovating the Rodman Building to serve as an 8th-Grade Academy as defined by the District, is feasible, however, after further consideration, the District chose not to pursue the Rodman Building as a location for an 8th-Grade Academy.
- Dore & Whittier confirms that renovating the existing Rodman Building to serve both the Pre-Kindergarten program of eight or nine classrooms and District offices is feasible. The existing building requires a moderate level of renovation and financial investment (from a strictly facility point-of-view) to continue to serve as an educational facility for the long-term.
- Dore & Whittier confirms that maintaining centralized Pre-K classes at the Rodman Building can support all aspects of the Pre-K program.
- Dore & Whittier confirms that placing modular additions at each elementary school to house a decentralized Pre-Kindergarten program is feasible, though sharing certain spaces inside the main buildings will be necessary to meet Pre-K program requirements.
- Given the limitations at each site, Dore and Whittier confirms that a moderate level of site work would be required to adjust access roads, playgrounds, and parking to accommodate modular classroom placement at each elementary school.
- Dore & Whittier confirms that integrating Pre-K students into each elementary school and relocating another grade level cluster into the modular classroom additions is feasible. However, Dore & Whittier notes that this swapping of grade levels could potentially be more expensive and/or disruptive given that all elementary schools have, on average, more than three sections per grade level, requiring an additional modular classroom for a total of four at each school. Not all aspects of the Pre-K program would be supported in this option as some classrooms within the building used by Pre-K do not have internal bathrooms.

At this stage, Canton Public Schools has three potential pathways forward for its Pre-Kindergarten program:

- 1. Continue the current practice of District offices and Pre-Kindergarten at the Rodman Building and renovate the space for long-term use.
- 2. Continue the current practice of District offices at the Rodman Building and decentralize Pre-K students into neighborhood schools using modular additions.
- 3. Continue the current practice of District offices at the Rodman Building and decentralize Pre-K students into neighborhood schools, integrating them into the existing building and relocating another grade level into modular additions.

Should the town of Canton wish to pursue options 1-3, additional facility and site assessments will be required.

# TASK ONE – EVALUATE THE FEASIBILITY OF RENOVATING THE RODMAN BUILDING TO SERVE AS AN 8TH-GRADE ACADEMY

# Overview

Task One focused on developing the necessary understanding of current 8th-Grade Academy precedents, existing facility conditions, and Canton Public Schools' educational goals to determine the feasibility of implementing an 8th-Grade Academy at the Rodman Building. Given the previous exploration of the facility itself, the completion of Task One focused primarily on the following areas:

- Structural evaluation of the Marilyn G. Rodman Building
- Why an 8th-Grade Academy?
- What is the student educational experience?
- What are the potential impacts of this program?

# Structural Evaluation of the Marilyn G. Rodman Building

D&W and its structural engineers conducted an on-site review and investigation of the Rodman Building to determine if the existing structural framing system could support renovation and expansion without having to conduct a major structural intervention. The structural engineer's assessment confirmed that the building's framing system would allow for interior wall relocations (with some limited structural interventions) to facilitate modifying and improving interior building layouts. The structural evaluations performed by Engineers Design Group are included in Appendix I.

# Why an 8th-Grade Academy?

On July 25, 2017, D&W met with the Working Group from Canton Public Schools to determine the feasibility of an 8th-Grade Academy at the existing Rodman Building. The conversation began with a review of academic research highlighting the importance of 9th-Grade academies to ease the transition between middle and high school. A correlation was made to the potential similar benefits with an 8th-Grade Academy in Canton. The group reviewed some existing 8th-Grade academies in Massachusetts, although examples are limited. Currently, only nine districts in the state have an 8th-Grade Academy as part of their overall program, and academic research leans more toward 9th grade as the year for transitional, academy-type programs.

To determine feasibility, the group began with the question, *why an 8th-Grade Academy*? Moving 8<sup>th</sup> grade students to the Rodman building separate from the existing middle school could allow 5<sup>th</sup> grade students to move up to the middle school and relieve overcrowding at each of the elementary schools. As of 2017, during the Master Planning phase, all three elementary schools exceeded capacity by 100+ students per school.

Programmatically speaking, an *8th-Grade Academy* would afford Canton the opportunity to provide a unique educational experience focused specifically on the developmental needs of the age group. It would also help ease the transition from middle to high school given the Rodman Building and the Canton High School adjacency could support potential space sharing and advanced educational opportunities. Being on campus would allow advanced 8<sup>th</sup> grade students to take high school-level courses in addition to high school students serving as mentors to 8<sup>th</sup> graders. Additionally, a single staff solely committed to that developmental level could be advantageous.

Below are images documenting our first round-table conversation where the Working Group defined what an 8th-Grade Academy would be in Canton:

J WHAT IS 8th Gr. ACADEMY D Not sitting & listening □ Student ownership, including when ■ SAFE COLLAB Between M & HS get to HS leadenship Social Aspects - tapping into HS I TEAMS 'S HOUSES BASED ON SUBJECT OR Lalunch @ HS CONTENT > multi-purpose space @ RoD 80 stidents ? to eat/hang out I Team - based W/ STEAM Intre gration I Not prep for HS ; it has its OWN IDENTITY □ Programs that support inquiry □ Flexible work areas = 24. dena I HS STUDENTS AS MENTORS I Can learning spaces be spaces where kids & fueinture essime D CLOSSROOMS eat? a Learning is EVERYWHERE that are D Tech / engineering Dahat is research dupanic & sund <u>calleboratin</u> I Outdoore learning space I Place-based learning & creation Hereble D Schedule impacts for GYM, ARTS SPACES, 1) Project-based leavenin MEDIA CENTER D Time on learning COULD BE SPIEHD lost w/transitions? OUT IN MULTIPLE PLAKES 11 cillion & listening

Based on the conversation, several questions were posed:

- a. Does an 8th-Grade Academy need to be in a separate building? Can it happen within the existing middle school or in a new 5-8 school?
- b. If 8<sup>th</sup> graders take classes or participate in activities at the high school, would it be with high school students or not?

The Working Group felt that an 8th-Grade Academy could work at either the Rodman, the existing middle school, or at a new 5-8 middle school. If the 8th-Grade Academy was to take place at Rodman, levels of separation would need further exploration as the Working Group felt the 8<sup>th</sup> grade needed to maintain its own identity.

# What is the Student Educational Experience?

Using a Chart/Gallery Walk activity, D&W guided the Canton focus group through a series of overarching questions to help further define the vision for an 8th-Grade Academy, and thus determine required spaces tested in the feasibility study. These questions included the following:

- a. How do 8<sup>th</sup> graders & high school students participate within the same community (i.e. extracurriculars, electives, lunch, etc.)?
- b. What are students doing in the classroom?
- c. How are students organized?
- d. What programs and services are offered?
- e. What does choice and independence look like (i.e. within course selection, furniture, the learning environment itself)?
- f. What tools and resources can students access?
- g. What does professional culture & collaboration look like?

Members of the Canton Working Group independently responded to these questions on large poster paper using Post-it Notes, inspirational imagery, and snapshots from research on existing academies. Below is a series of photos documenting this work.







Following this exercise, each Working Group member took one poster and organized like and dislike responses to allow for further conversation. This graphic organization of their thoughts allowed for a robust, round-table conversation about what an 8<sup>th</sup> grade academy would really look like at Canton and the type of facility needed for that to happen.



In summary, their vision included, but was not limited to, the following:

- Safe collaboration between the academy and the high school, yet still separate enough for the academy to have its own identity
- High school students serving as mentors
- Focus on technology and engineering
- Place-based and project-based learning
- Dynamic, flexible learning environments with student choice in resources, furniture, etc.
- Student ownership & leadership
- Heavy integration of STEAM and programs that support design-thinking
- Teams or "houses" based on subjects or content area; 80 students per team
- Opportunities for outdoor education
- Spaces for students to spread out and work, collaborate, and/or eat within the teaching space
- Programs that support inquiry and design-thinking
- Professional collaboration among 8<sup>th</sup> and 9<sup>th</sup> grade teachers

# What are the potential impacts of this program?

Once the Working Group determined a clearer vision for an 8th-Grade Academy, D&W posed additional questions focused around potential impacts. Several logistical issues were raised around the areas of special education, staffing, scheduling, transportation, parking, professional culture, and school culture in general. The further the conversation went, the more the Working Group began to realize the number of potential district-wide impacts associated with making this grade-level move. In summary, their comments included, but were not limited to, the following:

- Staffing:
  - o Duplication of staff possible, including nurse, guidance, specialists, SPED
  - Is a full-time principal needed?
  - Could the MS principal be supported by an 8<sup>th</sup> grade teacher leader?
  - How are students receiving SPED services supported?
  - Staff anxiety due to moving between schools
- Schedule & Transportation:
  - MS/HS currently running different schedules
  - Issues with contract for teachers
  - Planning time, expectation etc. different between MS and HS
  - Potential additional or sharing routes for busses; currently MS & HS riding together

- Culture:
  - Adults and students remaining in middle school will have to create a new community
  - What happens to professional culture?
- Cost:
  - Additional operational costs
  - Additional maintenance costs
  - Renovation costs
- Other:
  - $\circ$   $\;$  Possible additional 30-40 staff parking spots needed.
  - Event parking issue made worse.
  - Traffic pattern would need to change with additional parent drop-off
  - Operational impacts
  - Since some kids turn 14 during 8<sup>th</sup> grade, there is an impact related to Special Education IEPs

MS/HS \* Potential addition or shared routes IMPACTS STAFFING : · Duplication of staff but maybe not a full - time principal; could MS for busses ; currently MS & HS riding together principal j'ust be supported by a teacher leader? O SERVICING OF SPECIAL ED CULTURE : • Ad wet & students lift behind -will have to create New community OTHER : Event parking issue for AcAdemy I Possible additional parking 30-90 STAFF? · Nurse · What happens to SPED SPECIALISTS o what about specials / staff between ? SCHEDULE & TRANSPORTATION · MS/HS CURRENTLY Running diff sched. • ISSNES W/ CONTRACT For teachers I TRaffic pattern would need to change w/ additioned powent drop-off I Operational impo o planning time, expectations, etc. diff. between MS/HS - ) -1

# **General Findings and Recommendations**

This portion of the feasibility study revealed several findings. For one, renovating the Rodman Building to support a separate 8th-Grade Academy is feasible and would require moderate levels of facility upgrades to support long-term educational goals. An 8th-Grade Academy at Rodman would also create a campus-like proximity between 8<sup>th</sup> graders and the high school, allowing advanced 8<sup>th</sup> grade students to leverage high school level classes when appropriate. Additionally, an 8th-Grade Academy could support mentorships between middle and high school students and could help ease the transition between both school experiences.

Given all the added benefits provided by a specialized, developmentally-centered program like an 8th-Grade Academy, it is important to consider whether the overall value is stronger than the costs and impacts associated with it. Though there are academic and social/emotional developmental benefits of an 8<sup>th</sup> grade academy, there are also many district-wide impacts worth recognizing, including, but not limited to staffing, scheduling, transportation, special education service delivery, operational costs, the duplication of resources, and contractual issues.

It is Dore & Whittier's understanding that the Working Group believes in the educational benefits of an 8th-Grade Academy, but also wondered if the same student experience can be established within the existing middle school. Though keeping the 8<sup>th</sup> grade at the middle school and thus keeping the 5<sup>th</sup> grade at the elementary schools would not help alleviate overcrowding, the District believed that looking ahead toward a more traditional, long-term middle school solution was more fiscally responsible.

Due to the District's determination that an 8<sup>th</sup> Grade Academy would not be appropriate at this time, Dore and Whittier did not pursue cost estimates for this option.

# TASK TWO – EVALUATE OPTIONS FOR PRE-K PLACEMENT

# Overview

Given the of the District's wish to grow the Canton Public Schools Pre-K program, Dore & Whittier was tasked with evaluating options for the placement of Pre-K students using several different scenarios:

- Option 1: Pre-K in modular classrooms addition at each elementary school
  - a. Lt. Peter M Hansen Elementary School
  - b. John F. Kennedy Elementary School
  - c. Dean S. Luce Elementary School
- Option 2: Pre-K students integrated at each elementary school
  - a. Lt. Peter M Hansen Elementary School
  - b. John F. Kennedy Elementary School
  - c. Dean S. Luce Elementary School
- Option 3: Pre-K at the Rodman building
  - a. In 8 sections
  - b. In 9 sections

D&W tested each possible scenario using the District's current Pre-K program needs, including:

- 8-9 Pre-K Classrooms (with internal bathrooms)
- Family Room
- OT/PT Room
- Speech and Language Room
- Staff Room
- Administration Area
- General Office/Waiting Area
- Nurse
- Indoor Motor Room

D&W worked with cost estimator, PM&C, to prepare the conceptual cost estimates for each option based on the following assumptions and methodology

- Each option was estimated as a stand-alone project.
- Each line item is estimated based on a quantity determined either from scaled drawings or field verified measurements. Dore & Whittier attempted to limit the number of lump sum quantities. However, some lump sum quantities were necessary in the cost estimate worksheets.
- Consideration of an existing building (Rodman Building) code triggers

#### Sprinkler System

Per the Comprehensive Facilities Assessment, page II-C-2-5, a building would require a sprinkler system to be installed throughout the building if any "major alteration" is performed. Major alteration is defined as 33% of the total building area *or* 33% of the value of the building.

For Rodman, if the work area exceeds 17, 199 SF (33% of the total building area of 52,118SF) **or** if the cost of the work exceeds \$2,378,838 (33% of the value of the building of \$7,208,600), the project scope would be considered "major".

#### **Accessibility**

Per the Comprehensive Facilities Assessment page II-C-2-6, Rodman Hall would require accessibility upgrades throughout the building if the cost of the proposed work exceeds 30% of the full and fair cash value of the building.

The threshold for Rodman Building, based on 30% of the value of the building of \$7,208,600, is \$2,162,580.

All proposed new work will be required to comply with the accessibility requirements of 521 CMR (The Massachusetts Architectural Access Board, or MAAB Rules)

#### Structural Upgrades

Per the Structural Assessment of July 2018, Rodman Hall would require structural upgrades throughout the building if the proposed work area exceeds 50% of the total area of the building. All new areas being renovated are required to meet code.

For Rodman, if the work area exceeds 26,059 SF (50% of the total building area of 52,118SF) the project scope would invoke Level 3 Alteration requirements

- Each estimate assumes no work would begin prior to November 2019. Therefore, each estimate includes one year of escalation at 3%. For any work begun beyond November 2019, additional escalation must be added at a rate of 3%-5% per year.
- Costs associated with phasing and swing space were excluded from these preliminary cost estimates.

• Each estimate represents a total project cost calculated using the following methodology:

Constructions Costs (Materials, Contractor Overhead and Profit, escalation)

A: Direct Construction Costs = Cost Quantity x Unit Cost plus 3% escalation per year

B: Design contingency = A x 15%

Given the conceptual nature of this study, the design contingency represents the level of uncertainty of specific design choices.

C: Bonds and Insurance = (A+B) x 1.75%

D: Overhead and Profit = (A+B) x 4%

- E: General Conditions = (A+B) x 10%
- F: Total Construction Cost = A + B + C + D + E

<u>Soft Costs</u> (Design fees, Consultant Fees, Testing Services, Commissioning, etc.) G : Soft Costs were estimated individually approximately = F x 25%

**Owner's Contingency** 

H : Owner's Contingency = F x 10%

An Owner's contingency is typical in most construction projects and represents the Owner's choice and ability to change their mind about design and construction decisions.

Total Project Cost

J : Total Project Cost = F + G + H

Cost estimates and worksheets are included in Appendix IV.

# **Option 1: Pre-K in Modular Classrooms at Each Elementary School**

As a means of providing equity throughout the District, D&W tested the location of three modular Pre-K classrooms at each of the District's elementary schools: Lt. Peter M Hansen Elementary School; John F. Kennedy Elementary School; and Dean S. Luce Elementary School. This would allow Pre-K students to remain in their neighborhood schools and would support equal distribution of the Pre-K program. In this scenario, D&W assumed a cluster of three Pre-K classrooms and, when possible, an additional modular to be used as office space, extra teaching space, breakout space, etc. to meet the needs of the current Pre-K program. Each classroom is approximately 1,200 s.f. and includes a bathroom per MSBA guidelines.

The location of modular clusters at each site was chosen using the following criteria:

- Direct access to the main building from modular classrooms
- Proximity to Kindergarten classrooms for shared materials, supplies
- Proximity to large group spaces (i.e. gymnasium, cafeteria, library, etc.)
- Proximity to parking to support a direct Pre-K parent drop-off and pick-up without going through the main building
- Proximity to playgrounds

#### **Option 1.a. – Modular Addition at Lt. Peter M. Hansen Elementary School**

D&W found two possible options for modular additions at Lt. Peter M. Hansen Elementary, both including a 3-classroom cluster and an additional office/classroom space. The first Option 1.a.i locates the modular addition along the northwest corner of the existing structure, where a prior modular classroom addition once existed.

#### Hansen Option 1.a.i



This location supports direct access to the main building through the Kindergarten wing, which would allow for collaboration and resource sharing between Pre-K and K teachers. Common spaces, including the library, gymnasium, and cafeteria, are located on the east side of the building but not too far away for Pre-K students to access.

In terms of site, the location of this modular addition would require a reshaping and offsetting of the rear access road, which runs along an area of wetlands. There is no adjacent parking for Pre-K parent drop-off and pick-up, and with tight site constraints, adding additional parking would require further investigation. Currently, a play structure for younger grades sits to the east of the potential modular addition and to the west is the access road.

# Hansen Option 1.a.ii



The Second Hansen Option 1.a.ii places the modular addition on the northeast corner of the property where parking currently exists. In this scenario, students would access the existing building using a hallway that is part-service (kitchen and boiler room) and part student circulation (cafeteria and gymnasium). In this option, Pre-K students are closer to all common spaces and down the hall from the main office area, where the nurse is located. This option may require more site work as the rear access road will need to be offset and parking spots will need to be replaced to balance out those taken from the modular addition. Adding parking and offsetting the road in this location may be challenging due to adjacent wetlands that would require further investigating. The adjacency to current parking, however, could potentially support a separate Pre-K student drop-off and pick-up per the District's request.

#### **Option 1.b – Modular Addition at John F. Kennedy Elementary School**

#### JFK Option 1.b



The suggested location of the modular addition at the John F. Kennedy Elementary School places the structure on the north side of the building adjacent to the gymnasium, kindergarten wing, and open courtyard. The modular structure would span and, therefore, close in the courtyard connecting the modular addition to the existing building on both the northwest and northeast sides. Pre-K students would access the main building through the northeast-side corridor, which currently houses music, art, and the cafeteria. Potentially, a second access point to the existing building could be added through the gymnasium to support collaboration and resource sharing between Pre-K and Kindergarten teachers. No exterior door connecting the modular addition to the gymnasium currently exists.

Given the limited options at the JFK site, the proposed Pre-K modular addition consists of a 3classroom cluster with internal toilets and without the additional office/classroom space as provided in the Hansen option. An additional modular addition already allocated for the west side of the JFK site (shown as a dashed line) eliminates a second placement option that would support this 3-classroom cluster plus additional space modular version.
#### Option 1.c – Modular Addition at Dean S. Luce School

#### Luce Option 1.c



The suggested location of the modular addition at the Dean S. Luce School places the structure on the northwest wing of the existing building, adjacent to the first-grade cluster and down the hall from the Kindergarten wing. Though the ideal location would be adjacent to the Kindergarten wing, the site does not readily support other modular options given its tight constraints. The site location would require a reshaping of the rear access road and a reshaping of the northern tip of the playground where the modular addition would overlap. The play structure itself would remain.

The proposed modular addition includes a cluster of 3 classrooms without an additional breakout, teaching, or office space. The tight rear location of the addition would not support a separate Pre-K parent drop-off and pick-up, however, there is currently a secondary entrance for Kindergarten and first grade that could be utilized.

Below is a cost summary of all Pre-K modular options in Task 2:

Option 1 - N	Modular Addition at	Each Elementary So	chool	
Option			A CONTRACT OF A	en e
	<u>1.a.i</u> Lt. Peter M. Hansen Elementary School	<u>1.a.ii</u> Lt. Peter M. Hansen Elementary School	<u>1.b</u> John F. Kennedy Elementary School	<u>1.c</u> Dean S. Luce Elementary School
Total Cost	\$2,654,744	\$2,629,126	\$2,648,766	\$2,593,260

# **Option 2: Pre-K Integrated at Each Elementary School**

As a means of providing equity throughout the district, D&W tested the integration of 3 sections of Pre-K inside each of the District's elementary schools: Lt. Peter M Hansen Elementary School; John F. Kennedy Elementary School; and Dean S. Luce Elementary School. This would allow Pre-K students to remain in their neighborhood schools and would support equal distribution of the Pre-K program.

In this option, Pre-K students would take the place of another grade level cluster, who would then move into the modular additions proposed in Option 1.a.i; Option 1.a.ii; Option 1.b; and, Option 1.c. The swapping of another grade level, particularly one that didn't require internal classroom bathrooms, would potentially minimize the size of the modular, and thus, reduce costs and issues with site constraints.

One challenge with this option is the existing overcrowding at each elementary school, which, on average, has a minimum of four classes or sections per grade level. Swapping out a four-classroom cluster of one grade level for only 3 sections of Pre-K at each school would cause an imbalance and would require grade level clusters to be split, with all but one grade level classroom in the modular. Having only one 3<sup>rd</sup> grade classroom, for example, separated from its other grade-level counterparts would create inequity. Adding to this challenge is that, in most cases, the rooms Pre-K would take over would not have internal bathrooms.

Another challenge with Option 2 is the District's ability to maintain its current Pre-K program simply based on limited space existing at each elementary school. Though required spaces like the nurse and staff room could be supported by the existing elementary programs, other Pre-K specific rooms like the Indoor Motor Room and Family Room could not always be provided.

The integration of Pre-K classrooms in each elementary school was assessed using the following criteria:

- Proximity to Kindergarten classrooms for shared materials, supplies
- Proximity to large group spaces (i.e. gymnasium, cafeteria, library, etc.)
- Proximity to parking to support Pre-K parent drop-off and pick-up, and when possible, to allow for a separate Pre-K entry
- Proximity to playgrounds
- Inclusion of internal bathrooms, and/or proximity to bathrooms



#### **Option 2.a – Pre-K inside Lt. Peter M Hansen Elementary School**

In this scenario, Pre-K would be integrated as a 3-classroom cluster and family room in the front of the building around the corner from Kindergarten. Two of the classrooms would be approximately 1,000 sf with internal bathrooms. The third classroom would be smaller, around 840 sf, and with no internal bathroom. The integration of Pre-K would displace one grade level into the modular addition.

Parent drop-off and pick-up would take place through the main office entry, which is around the corner from the Pre-K wing. Common spaces like the gymnasium and cafeteria are on the east side of the building, opposite of the proposed Pre-K wing. This relationship between the Pre-K wing and the common spaces would be like that of the Kindergarten wing.



## **Option 2.b** – Pre-K inside John F. Kennedy Elementary School

In this scenario, Pre-K would be integrated in the southwest corner of the building, adjacent to Kindergarten classrooms, bathrooms, and the gymnasium. The 3-classroom Pre-K cluster would displace four classes of Grade 2 into a modular addition connected to the building. Given that only three Pre-K classrooms would be needed, the additional classroom vacated by Grade 2 would be leveraged to support Pre-K's need for a Family Room and office space.

On average, each Pre-K room would be approximately 850 sf with no internal bathroom, though bathrooms are located at each end of the Pre-K wing. Given the location of Pre-K rooms, there is potential for a separate parent drop-off and pick up through an existing exterior door connected to the Pre-K and Kindergarten wings. Additionally, proximity to the gymnasium would support Pre-K's need for an Indoor Motor Room.



### **Option 2.c – Pre-K inside Dean S. Luce School**

In this scenario, Pre-K classrooms would be placed in the southwest corner of the building, adjacent to Kindergarten and the gymnasium. This location would support a separate parent dropoff and pick-up through a secondary entrance currently used during arrival and dismissal times. Additionally, proximity to the gymnasium would support use of Indoor Motor Room and proximity to the Kindergarten wing would support staff collaboration and a sharing of resources and materials.

In this scenario, music, science, and health would be relocated to modular classrooms attached to the main building. The justification for choosing these spaces for Pre-K is given the size of each room (approximately 1,000 sf), inclusion of internal bathrooms, and proximity to the Kindergarten wing. Additionally, pairing science and health in the modular could support interdisciplinary work and a sharing of materials and resources.

Below is a summary of all integrated Pre-K options in Task 2:

Option 2 - I	Option 2 - Pre-K Integrated at Each Elementary School			
Option				
		<u>2.a</u> Pre-K Integrated into Lt. Peter M. Hansen Elementary School	<u>2.b</u> Pre-K Integrated into John F. Kennedy Elementary School	<u>2.c</u> Pre-K Integrated into Dean S. Luce Elementary School
Total Cost		\$2,654,744	\$2,648,766	\$2,593,260

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# **Option 3: Pre-K at the Rodman Building**

As part of Option 3, Dore and Whittier was tasked with assessing the potential for Pre-K to remain at the Rodman Building while the program grew to include eight or nine Pre-K classrooms. In this option, D&W was able to include all Pre-K program needs at Rodman while still maintaining space to house District offices. These program needs include the following:

- 8-9 Pre-K Classrooms (with internal toilets)
- Family Room
- OT/PT Room
- Speech and Language Room
- Staff Room
- Administration Area
- General Office/Waiting Area
- Nurse

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Indoor Motor Room

Though the 8- and 9-classroom options differ in their overall layout, both share similarities worth noting. Both Pre-K options spread out on two floors – the lower and main level – with the remaining space capable of housing the District offices and/or a future tenant. On the main level where space is shared by Pre-K and District offices, a set of security doors separates these spaces. In both options, classrooms range in size from approximately 726-943 sf. with internal bathrooms and exterior views. Finally, both options leverage a new entry location and entry sequence to improve security, overall space layout, and options for relocating the playground closer to the building.



**Option 3.a – Pre-K at Rodman in 8 classrooms** 

#### Option 3.a

This option includes eight Pre-K classrooms all on the lower floor of the building at the same level of discharge as drop-off and pick-up. In this option, Pre-K classrooms range in size from 726-914 sf. all with internal bathrooms and exterior views. The reason for such a range in classroom sizes is due to the moderate level of renovation scope, which utilizes as many of the current interior partition walls as possible.

In this option, a new secured, dedicated entry has been added in the rear lower level of the building for the Pre-K program to function independently. Visitors would be buzzed into a locked vestibule where they are checked in and then permitted to enter the main office/waiting area. Adjacent to the main office area is a Family Room, small conference room, nurse, administrator's office, and OT/PT room. Speech and Language, the Indoor Motor Room, and the Staff Room are located on the main level.





#### Option 3.b

This option includes nine Pre-K classrooms split on two floors with a cluster of five classrooms on the lower level and four classrooms on the main level to create a sense of neighborhood. In this option, Pre-K classrooms range in size from 802-943 sf. all with internal bathrooms and exterior views. The reason for such a range in classroom sizes is due to the moderate level of renovation scope, which utilizes as many of the current interior partition walls as possible.

In this option, a new secured, dedicated entry has been added in the rear lower level of the building for the Pre-K program to function independently. Visitors would be buzzed into a locked vestibule where they are checked in and then permitted to enter the main office/waiting area. Adjacent to the main office area is a Family Room, nurse, and administrator's office. The staff room, conference room, Speech and Language, OT/PT, and Indoor Motor Room are also located on this lower level.

The proposed location of the new secured entry would allow for a relocation of the existing Pre-K playground and play structure. Currently, Pre-K students exit the building and must cross traffic to access the playground. In Option 3.b, the proposed solution would be to relocate the play structure just south of the Pre-K entry where parking currently exists. This lost parking could be replicated where the existing playground is currently.

Below is a cost summary of all Rodman Pre-K options in Task 2. Costs of Options 3.a and 3.b include sprinkler system and accessibility upgrades for the entire building. The sprinkler system requirement is triggered due to the cost of the work estimated to be more than 33% of the value of the building. The accessibility requirements are triggered due to the cost of the work estimated to be more that 30% of the value of the building. The Structural upgrades were not required as the work area is less than 50% of the total area of the building.

Option 3 - Pre-K at Rodman Building				
Option				
	<u>3.a</u>	<u>3.b</u>		
	8 Pre-K Classrooms	9 Pre-K Classrooms		
<b>Total Cost</b>	\$5,200,886	\$5,646,738		

## **General Findings & Recommendations**

Task Two of the feasibility study proves that placing modular additions at each elementary school to house a decentralized Pre-Kindergarten program is feasible, though sharing certain spaces inside each of the existing schools, including, but not limited to administration, cafeteria, nurse, gymnasium, and special education spaces would be necessary to meet the needs of the Pre-K program. Given the limitations at each site, a moderate level of site work would be required to adjust access roads, playgrounds, and parking to accommodate modular placement at each site.

Integrating Pre-K students into each elementary school and relocating another grade level cluster into modular classrooms is also feasible, however this option could potentially be more expensive and disruptive to a larger student population given that all elementary schools have, on average, more than three sections per grade level, requiring an additional modular classroom for a total of four at each school. Placing another grade level into the modular classrooms for only three sections of Pre-K could potentially result in the splitting of grade-level clusters.

It is important to note that enrollment analysis performed during the Master Planning phase revealed overcrowding already at each of the elementary schools. Though adding Pre-K students to modular additions at each school would not add to overall capacity numbers, having them utilize spaces within the building (i.e. the nurse) would potentially put further strain on staff and a facility that is already beyond carrying capacity.

Option 3 – keeping the Pre-K program at the Rodman building while it continues to grow and until a larger shift in grade configuration can occur within the district – does not provide the same strain on staffing. Rather, in this option, continuing to centralize Pre-K students allows the District to maintain and deepen the quality of its program within one facility where all aspects of the Pre-K program could be met through a series of medium and light building renovations. This would allow the Canton School District to fully implement their Pre-K program in a specialized environment without the additional strain on each elementary school.

## TASK THREE – DISTRICT OFFICES AT RODMAN BUILDING

## Overview

Task Three focused on the feasibility of renovating the Marilyn G. Rodman Building to improve spaces for both District offices and the proposed Pre-K program, with the assumption that the Pre-K program would need to accommodate up to 8 or 9 classrooms with internal bathrooms and additional spaces for staff and student support services.

Dore & Whittier tested the feasibility of supporting both programs within the Rodman building based on two assumptions: 1) the idealized space summary for District offices as determined in the District-wide Master Plan Study, and 2) Pre-K program needs as identified by the District. D&W also considered the current location of Pre-K classrooms, District offices, and spaces used by a third-party tenant as a way of understanding how the building currently functions.

For this feasibility testing, D&W used the location of the Pre-K program as identified in Task Two, Option 3.b – the 9-classroom Pre-K option with 5 classrooms clustered on the lower level and 4 classrooms clustered on the main level. D&W utilized the remaining space on the main level and upper level for a reimagining of District offices with no changes proposed to the existing Gym wing.

As identified in Task Two, security doors would be added to the main level hallway toward the north end of the building, separating the cluster of 4 Pre-K classrooms from District offices and any public access. This level of security would also support use of a future tenant, given the assumption that if District offices were to relocate at some point, those vacant spaces on the main and upper level could be used.

#### **District Offices**

During the District-wide Master Plan Study, several scoping sessions were held with District administrative staff to determine their needs for office space, collaborative space, professional development space, and community use space and storage. The result was an idealized space summary for District offices that defined spatial relationships and required a larger gross and net program square footage than the current District offices occupy. Dore & Whittier used this idealized space summary to test the feasibility of fitting both the Pre-Kindergarten program and District offices at Rodman.

The proposed solution for District offices is a 2-level floor plan that leverages a portion of the main level not utilized by Pre-K and the entire upper floor of the Rodman Building.







This proposed layout, which removed and/or relocated partition walls, would require a medium level of renovation to all the office spaces and a light level of renovation to existing bathrooms and corridors. Care was taken to minimize the need for major structural modifications while still attempting to accommodate the need for a more collaborative working environment.

Nevertheless, since the Rodman Building is an existing building, and this option has a work area that exceeds 26,059 SF (50% of the total building area of 52,118SF) the project scope would invoke Level 3 Alteration requirements in order to comply with code. That results in structural upgrades require to clip the tops of all existing masonry walls to the structure above it (these will be the exterior and corridor walls) increasing the cost of the project. If this option is constructed as one project, or if it is anticipated to be done in two phases (i.e. Phase 1: Pre-k renovation and Phase Two: District Offices), the entire Level three alteration required for the entire area. Therefore, if this option is constructed in 2 phases, D&W recommends that Phase One be constructed with Level 3 Alterations, even though by itself Phase One would not invoke Level 3 Alterations. This strategy would save an extensive renovation of Phase One in the future.

The District office option was presented to the Working Group on October 11, 2018. At that time, a request was made by District administration to minimize the scope of Rodman renovations to include only those spaces needed for the Pre-K options. Members of the Working Group stated that their current spaces supported their work and that it was fiscally more responsible and cost-effective for the District to focus on Pre-K spaces at this time.

Using the existing space diagram of Canton District offices provided at the October 11 Working Group Meeting, D&W determined that the 9-classroom Pre-K proposed layout (as identified in Task 2, Option 3.b) would only impact one space currently used as District conference space at the north end of the building on the main level. It was determined by members of the Working Group that this space could easily be relocated to another area of the building not used by the proposed Pre-K layout or a third-party tenant.

In order to fully complete the Feasibility Study as defined in its scope, Dore & Whittier submitted the proposed plan for District offices for cost estimating purposes only, even though the District expressed a desire to remain in their office spaces as is.

The following page summarizes the costs associated with Task 3.

Task 3 - District Offices at Rodman Building		
Ontion		
Option	District Offices	
Total Cost	\$9,782,278	

# **General Findings & Recommendations**

Dore & Whittier confirms that it is feasible for the Rodman Building to be renovated using medium and light levels of renovation to support District offices as per MSBA guidelines. Given the District's request to leave District offices as they are, Dore & Whittier also confirms that the Rodman Building would be able to support the current layout of District offices and the new Pre-K Option 3.b – the 9-classroom option – as identified in Task 2.



# **MEETING MINUTES**

DATE OF MEETING:	June 21, 2018	
PROJECT:	Canton Public Schools Pre-Feasibility	Study
PROJECT NO.:	18-0773	
SUBJECT:	Focus Group Meeting: 8th Grade Acad	lemy Workshop
ATTENDING:		
	Dr. Jennifer Fisher-Muella,	Superintendent
	Patricia Kinsella,	Assistant Superintendent
	Barry Nectow,	Business Manager
	Debbie Rooney	K-8th
	Sarah Shannon	Galvin MS Principal
	Brad Dore	Dore & Whittier, Principal
	Jason Boone	Dore & Whittier, Educational Planner
	Mike Pirollo	Dore & Whittier
	Maria Fernandez-Donovan	Dore & Whittier, Project Manager

#### PURPOSE

The primary purpose of this meeting is to discuss the option of an 8<sup>th</sup> grade academy in the Canton School System.

NC	TES	ACTION BY
1.	All present introduced themselves.	
2.	D&W provided a description of the structural system of the Rodman Building based on an investigative site visit by the Structural Engineer, EDG and Maria Fernandez-Donovan, D&W. The building has concrete structure, floors, roof and exterior walls with columns along the interior corridors. Most interior partitions along the corridor and between the corridor and the exterior wall are not load bearing. Therefore, most interior walls can be removed. This provides flexibility for future designs and uses for the building. Even though the existing masonry walls along the corridor and demising walls between classrooms are not load bearing, the walls are considered shear walls. If the proposed renovations require reconfiguration of these walls, a structural analysis would be necessary and may include the addition of new masonry shear walls.	

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NC	DTES		ACTION BY
3.	It is prol	bable that the Rodman Building can be renovated to house an 8th grade	
	academ	y. Therefore, the following questions need to be answered:	
	а.	Is an 8th Grade Academy is a good idea for the Canton School District?	
	b.	If it is a good idea, what does it look like?	
	C.	What is the program to be used to truth test the Rodman Building?	
4	D&W er	nailed a research package related to Academies before the meeting	
	Comme	nts:	
	a	Most academies in the research package were 9 <sup>th</sup> grade academies	
	b.	Canton has the opportunity to define something new for an 8 <sup>th</sup> grade	
		academy by translating the information to $8^{th}$ grade as appropriate.	
	C.	A grade Academy provides the opportunity to soften the transition	
		between to the next grade by providing an educational experience	
		tailored for that age.	
	d.	It is important <i>not</i> to consider the 8 <sup>th</sup> grade as part of the High School to	
		maintain athletic competition 9-12.	
5	The aro	up discussed an 8 <sup>th</sup> grade Academy at Canton School District	
0.	a.	An 8 <sup>th</sup> grade academy separate from the existing Middle School would	
	-	relieve overcrowding at the Middle School and, consequently, the	
		Elementary Schools.	
	b.	An 8 <sup>th</sup> grade academy would provide Canton the opportunity to have a	
		unique 8 <sup>th</sup> grade educational experience which is attractive to some,	
		although not all.	
	С.	It is understood that 8th Grade Academy would soften the transition	
		between 8th and 9th grades,	
	d.	A single staff body that is solely committed to that developmental level.	
	e.	The transition to an academy can begin to happen before a compatible	
		facility exists for it by adjusting the program.	
	f.	Does an 8 <sup>th</sup> grade academy need to be in a separate building or can it	
		happen within at 5-8 school? 8-12?	
	g.	There has been negativity around the 8th grade academy idea. The	
		Building Committee would need to make a good case, with successful	
		precedents.	
	n.	The 8 <sup>th</sup> grade academy could impact the students earlier and therefore	
		speed up the master plan 5B1.	
6.	The gro	up discussed an 8 <sup>th</sup> grade Academy at Rodman Building:	
	a.	Rodman is an underutilized building close to the High School that could	
		provide the benefits of an 8 <sup>th</sup> grade academy plus some benefits at the	
		high school after a renovation, at a cost.	
	b.	Rodman could provide a small school experience with opportunities of a	
		bigger school. A small school at another location would also be OK, but	
	-	would need to find way to support students who might be at higher level	
	C.	oth at Rooman would be less part of MS and more part of HS.	
	α.	Auvanceu students could take courses at nigher grade level in the High	
	^	OUTION, All students could have more elective options offered at the high school	
	<i>е</i> .	An students could have more elective options offered at the high school.	

NOTES		
	<ul> <li>f. Possible space sharing economy by utilizing spaces at the high school for 8<sup>th</sup> graders, therefore not necessary to include those spaces at the 8<sup>th</sup> grade academy or include them in different forms.</li> <li>g. High school students would have the option to mentor 8<sup>th</sup> graders.</li> <li>h. If 8<sup>th</sup> graders take classes or participate in activities, would it be with HS students or not? Scheduling could help with the separation. Others see academic and social benefits in not separating 8<sup>th</sup> graders from high schooler grades.</li> <li>i. It is important for the High School is that the 8th grade not be considered part of the High School due to athletics. (Do not want to change their division).</li> </ul>	or
7.	The group discussed what if no 8th grade Academy at Rodman a. If an 8th academy existed elsewhere from Rodman, the Masterplan wou need to "pivot."	ld
8.	<ul> <li>Rodman was turned down as part of the High School in the past:</li> <li>a. Too expensive to renovate</li> <li>b. Safety and security</li> <li>c. Going back and forth between Rodman and HS was not desirable.</li> <li>Jenn will look for the related document and pass it along to D&amp;W.</li> </ul>	Jenn
9.	<ul> <li>D&amp;W guided the Focus Group through a series of activities to explore the 8<sup>th</sup> grac academy at Rodman Building.</li> <li>Topics explored: (See attached photographs) <ul> <li>a. How do 8<sup>th</sup> graders &amp; high school students participate within the same community (i.e. – extracurriculars, electives, lunch, etc.)?</li> <li>b. What are students doing in the classroom?</li> <li>c. How are students organized</li> <li>d. What programs and services are offered?</li> <li>e. What does choice independence look like (i.e. – within course selection furniture the learning environment itself)?</li> <li>f. What tools and resources can students access?</li> <li>g. What does professional culture &amp; collaboration look like?</li> </ul> </li> </ul>	le
	Conclusions: What is an 8 <sup>th</sup> Grade Academy? • Safe collaboration between MH and HS • Social aspects-tapping into HS • Lunch at HS • Multi-purpose space at Rodman to eat and hangout • Not prep for HS; ithas its own identity • Not sitting and listening • HS as Mentors	

NOTES	ACTION BY
<ul> <li>Can learning spaces be spaces where kids eat?</li> </ul>	
Tech/Engineering	
<ul> <li>Classes that are dynamic and flexible</li> </ul>	
Place based learning creation	
Project-based learning	
<ul> <li>Student ownership &amp; leadership, including when they get to HS</li> </ul>	
<ul> <li>Teams vs Houses based on subject or content; 80 students per</li> </ul>	
team?	
<ul> <li>Team based with STEAM integration</li> </ul>	
<ul> <li>Programs that support inquiry/design thinking</li> </ul>	
Flexible work areas and furniture	
Leaning is everywhere	
Outdoor learning space	
<ul> <li>Schedule impacts for Gvm. Art spaces, media center, could be</li> </ul>	
spread out in multiple spaces.	
8 <sup>th</sup> /9 <sup>th</sup> professional collaboration	
<ul> <li>What is the research around collaboration?</li> </ul>	
<ul> <li>More learning time is lost during transitions between classrooms far</li> </ul>	
apart.	
Impacts of having 8 <sup>th</sup> grade academy in Rodman	
Staffing	
<ul> <li>Duplication of staff possible</li> </ul>	
<ul> <li>Is a full time principal needed?</li> </ul>	
• Could the MS principle be supported by an 8 <sup>th</sup> grade teacher leader?	
<ul> <li>Servicing of Special Education?</li> </ul>	
Nurse?	
<ul> <li>What happens to SPED/Specialists?</li> </ul>	
Staff between schools	
Schedule &B Transportation	
<ul> <li>MS/HS currently running different schedules</li> </ul>	
<ul> <li>Issues with contract for teachers</li> </ul>	
<ul> <li>Planning time, expectation etc different between MS and HS</li> </ul>	
<ul> <li>Potential additional or sharing routes for busses; currently MS &amp; HS</li> </ul>	
riding together	
Culture:	
Adults and students left behind in middle school will have to create a	
new community	
Other	
Possible additional 30-40 staff parking spots needed.	
Event parking issue made worse.	
I rattic pattern would need to change with additional parent drop-off	
Operational impacts	
10. If the 8th grade academy is not at Rodman Building, what is the disposition for	
Rodman? Potential options mentioned:	
a. District offices (as present or renovated)	
D. Teen Center	
	1

NOTES		ACTION BY
d.	Multi-purpose space for building, maker-space	
e.	PD Space	
11.		
12. Next S	teps and Timeline	D&WA
a.		

The above is my summation of our meeting. If you have any additions and/or corrections, please contact me for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

**DORE & WHITTIER ARCHITECTS, INC.** Architects - Project Managers

Maria Fernandez-Donovan AIA, LEED AP BD+C Project Manager

c: Attendees and File





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IMPACTS STAFFING : · Duplication of staff but maybe not a full-time principal; could MS principal j'ust be supported by a teacher O SERVICING OF SPECIAL ED · Nurse · what happens to SPED SPECIALISTS o what about specials/staff between ? SCHEDULE & TRANSPORTATION · MS/HS CURRENTLY Running diff sched. o ISSUES W/ CONTRACT For teachers o planning time, expectations, etc. diff. between MS/HS

MS/HS TRANSPORTATION (CONTD) · Potential addition or shared routes for busses ; currently MS & HS riding together CULTURE : · Adnet & students left behind will have to create new comminity Event parking issue for AcAdemy OTHER : I Possible additional parking 30-40 STAFF? I Traffic pattern would need to clarge w/ additional powent drop-off □ Operational import

WHAT IS 8th Gr. ACADEMY ■ SAFE COLLAB Between M & HS Social Aspects - tapping into HS L> multi-purpose space @ Rod to eat/hang out D NOT prep for HS ; it has its OWN IDENTITY I HS STUDENTS AS MENTORS I Can Learning spaces be spaces where kids eat? D CLOSSROOMS I Place-based learning & creation dynamic & I Project-based learning & creation dynamic & Fluible cillin & listenin

D Not sitting & listening □ Student ownership, including when they get to HS Jeadenship I TEAMS 'S HOUSES BASED ON SUBJECT OR CONTENT 80 stidents ? I Team - based w/ STEAM Intreignation U Programs that support inquiry/design-I tlenble work areas 1 8/9" Professional & furinture collaboration a Learning is EVERYWHERE Divitat is research around <u>colleboratin</u>? I Outdoore learning space D Schedule impacts for GYM, ARTS SPACES, MEDIA CENTER D Time on leaking S COULD BE SPIERD lost w/transitions? OUT IN MULTIPLE PLAKER

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Alternative Space Lises 15 I Adult learning □ Teen center
 □ Multi-purpose space for crafting
 □ PD space
 □ District Offices MS \$ Increase awarenes at the high school


# Canton 8<sup>TH</sup> Grade academy

Feasibility Study User Group Meeting 7.25.18

# Welcome & Introductions

# **Gather Information**



feasibility?

# Why an 8<sup>th</sup> Grade Academy?

## Current Considerations

- Relieve overcrowding at elementary schools
- Leverage Rodman facility for higher and better use
- Academic Research & Current Models

# What is the 8<sup>th</sup> grade experience?

- Chart Walk to explore...
  - What programs & services are offered?
  - How are students organized?
  - What are students doing in the classroom?
  - How do 8<sup>th</sup> graders & high school students participate within the same community (i.e. – extracurriculars, electives, lunch, etc.)?
  - What does choice & independence look like (i.e. within course selection, furniture, the learning environment itself)?
  - What tools and resources can students access?
  - What does professional culture & collaboration look like?

# What is the 8<sup>th</sup> grade experience?

- Review & Synthesis
  - ► What is common in our vision?
  - ► What are some differences or areas for further discussion?
- ► Working Mission Statement Canton 8<sup>th</sup> Grade Academy

# What are the impacts?

- Staffing & Service Delivery
- Space
- Schedule
- ► Transportation
- Curriculum
- Extracurriculars & the school community
- Other?



- Questions & topics for further exploration
- Upcoming School Committee Meeting





### **MEETING MINUTES**

DATE OF MEETING:	September 13, 2018		
PROJECT:	Canton Public Schools Feasibility Study and JFK Modular Classrooms		
PROJECT NO.:	18-0773 and 18-0776		
SUBJECT:	Working Group Meeting: Pre-K at Elementary Schools		
ATTENDING:	Dr. Jennifer Fisher-Mueller (JFM) Patricia Kinsella (PK) Barry Nectow (BN)	Superintendent Assistant Superintendent Business Manager	
	Debbie Rooney (DR)	K-8 <sup>th</sup>	
	Bob McCarthy (BM) Sarah Shannon (SS)	Building Renovations Committee Galvin MS Principal	
	Donna Kilday Deborah Bromfield Brad Dore (BD) Jason Boone (JB)	E.C.C. Director of Student Services Dore & Whittier, Principal Dore & Whittier, Educational Planner	
	Mike Pirollo (MP)	Dore & Whittier	
	Maria Fernandez-Donovan (MFD)	Dore & Whittier, Project Manager	

#### PURPOSE

On September 13, 2018, D&W met with the working group from Canton Public Schools to discuss feasibility options for Pre-K classrooms at the 3 Canton elementary schools and Rodman Hall.

NC	TES	ACTION BY
1.	The meeting began with an update of a meeting that took place at Canton Rodman Hall with Barry, Donna and D&W to determine a planning target for the number of Pre-K modular classrooms needed to support the current and future educational program.	
	Meeting conclusions:	
	a. There is need for 9 Pre-K classrooms.	
	b. Options to investigate:	
	<ul> <li>9 Pre-K classrooms at Rodman Hall with related program</li> </ul>	
	<ul> <li>3 Pre-K classrooms at each elementary school (3)</li> </ul>	

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NOTES		ACTION BY
	c. Items to keep in mind	
	A separate entry is ideal	
	<ul> <li>Pre-K classroom size goal: 1,200SF</li> </ul>	
	Related Program:	
	i. Family Room	
	ii. OP/PT	
	iii. Office space	
	iv. Nurse	
	v. Speech/Language	
	vi. Teachers Room	
	vii. Parking/Drop-off; independent entry is ideal	
2.	D&W presented the following 2 options for a consolidated Pre-K center at Rodman Hall:	
	Option 1	
	<ul> <li>9 classrooms - size compromised (not 1,200SF)</li> </ul>	
	Smaller OT/PT	
	<ul> <li>Layout appears feasible despite smaller classroom sizes</li> </ul>	
	<ul> <li>Lacks speech and language, Family Room, Teachers Room</li> </ul>	
	<ul> <li>Parking is an issue now, so added enrollment would worsen parking</li> </ul>	
	situation	
	This solution is not meeting program.	
	Option 2	
	<ul> <li>A variation of Option 1; with smaller classrooms and more office space.</li> </ul>	
	<ul> <li>This solution is not meeting program.</li> </ul>	
	Conclusion: One level of Rodman Hall does not have enough square footage to house the entire Pre-K program as originally intended.	
3.	D&W presented options for 3-classroom additions at each existing elementary school: Three 1200 SF classrooms with bathrooms and new offices, meeting program by sharing other spaces with the existing school.	
	a. Hansen Elementary School	
	Option 1 – Addition to be located at a similar place as pre-existing modular addition:	
	<ul> <li>This addition is far from the main entry. If dedicated entry was added, parking and drop-off area would need to be added.</li> <li>It appears that the existing service road is at the edge of wetlands and so this option may be problematic because the new road may be encroaching on wetlands or/and may not be able to go around the building. Space it tight.</li> <li>Pre-K is close to Kindergarten and considered a good thing.</li> <li>Large travel distance to spaces like Gym, music, etc. may be</li> </ul>	

NOTES	ACTION BY
<ul> <li>Close to existing playground: dedicated playground could be added next to existing.</li> </ul>	
<ul> <li>Option 2- Attached at east of the school.</li> <li>Location at edge of parking lot allows for independent entry and parking lot may be easily extended to accommodate additional enrollment. Nevertheless, there is a potential wetlands issue at the north side of parking lot.</li> <li>Dedicated playground could be added next to the existing.</li> <li>Large separation between Pre-K and Kindergarten is not ideal.</li> <li>Pre-K classrooms separated from the other grade classrooms.</li> </ul>	
<ul> <li>b. JFK Elementary School – 3 classrooms with a single loaded corridor creating a courtyard.</li> <li>The courtyard created is a potential location for a dedicated playground. Potential issues: playground noise for classrooms at courtyard perimeter, fire chief may be concerned regarding access.</li> <li>Easy access to existing playground; the existing playground could be adapted for both K and Pre-K.</li> <li>Good drop-off sequence.</li> <li>Pre-k would be close to Kindergarten.</li> <li>Direct dedicated entry into Gym.</li> </ul>	
There are plans underway to occupy the south site space with a modular classroom addition, therefore, that location is not an option for a Pre-K addition.	
<ul> <li>c. Luce Elementary School-single loaded corridor close to north site perimeter.</li> <li>Addition would create an open courtyard south of it.</li> <li>If the classrooms face the north site boundary, there would be minimal impact on the existing playground. If the classrooms face the courtyard, the existing playground would need to be relocated.</li> <li>The service road would need to squeeze between the addition and the site boundary.</li> <li>Drop-off would need to be through the existing front door (quite far) or the existing secondary entry used by Kindergarten (a bit less far), as there is no space for an independent entry.</li> <li>The existing 1st grade would divide K from new Pre-K.</li> <li>This site is very tight</li> </ul>	
4. Preference for Pre-K to be close to Kindergarten or other spaces at the elementary	
<ul> <li>Very positive if possible.</li> </ul>	

NO	TES		ACTION BY
	•	Staff feels more part of the school if Pre-K and Kindergarten are close to	
		each other.	
	•	Long distance from Gym, music, etc. may be OK because Pre-K kids are	
		"cute" when they walk thru the school creating a positive environment.	
5.	Other o	ptions talked about:	
	а.	5th graders from all elementary schools would move to new modular	
		classrooms at Galvin Middle School so Pre-K can move into each of the	
		existing elementary schools:	
		<ul> <li>All 5<sup>th</sup> graders added to the existing initiate School building is seen as tee burdenseems given the amount of appeal and staff of</li> </ul>	
		shared activities (grow music art etc.) without additional ETEs	
		<ul> <li>12-13 modular classrooms would be required to house the 5<sup>th</sup></li> </ul>	
		grade: more than needed to house the Pre-K.	
		<ul> <li>Pre-k would be in smaller existing spaces.</li> </ul>	
	b.	Pre-K at Rodman Hall occupying more than the lower floor to meet the	
		entire program.	
		<ul> <li>Playground could be relocated to the front of the building to address the sublighter areas along the front of the building to</li> </ul>	
		address the vehicular cross circulation conflict.	
		<ul> <li>Additional parking would be required.</li> <li>Podman Hall has available space that would be used by the Pre-</li> </ul>	
		K program	
		<ul> <li>Jason pointed out that this plan can be executed any time</li> </ul>	
		between now and when the MSBA funds the main project.	
		<ul> <li>D&amp;W Whittier to explore this option.</li> </ul>	
	С.	Pre-K at Rodman Hall occupying one lower floor only and meeting the	
		entire intended program	
		<ul> <li>The group understands that the program spaces will need to be reduced in order to make it fit in one floor.</li> </ul>	
		D&W to provide options b and c layouts for Pre-K in Rodman Hall.	D&W
6.	Discuss	ion about individual spaces:	
	а.	Family room: a place to meet with families for new and existing students,	
		This space is best ideally near the school entry $r_{1}$	
	b	Indoor motor room is a need for young children that can be located in the	
		gym.	
	C.	The goal is to have pre-k to 4 <sup>th</sup> in one school.	
-	00147		
1.	U&VV re visited f	quested access to JFK elementary school to confirm fixture count. D&W	
		no sonoor ditor the mooting.	
8.	D&W pi	ovided two options of cost information for survey work at the JFK. CPS	
	informe	d D&W to proceed with surveying the entire school site.	D&W
1			

NC	NOTES		
9.	Next St a. b.	eps: D&W to provide additional options for Pre-K at Rodman Hall Next Meeting September 27, 2018	D&W

The above is my summation of our meeting. If you have any additions and/or corrections, please contact me for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects 

Project Managers

Maria Fernandez-Donovan AIA, LEED AP BD+C Project Manager

cc: Attendees and File



#### Agenda

- Review Pre-K Modular Options:
  - 9 at Rodman in 2 ways
  - 3 at each elementary school
- Next Steps















### **MEETING MINUTES**

DATE OF MEETING:	September 27, 2018		
PROJECT:	Canton Public Schools Feasibility Study and JFK Modular Classrooms		
PROJECT NO.:	18-0773 and 18-0776		
SUBJECT:	Working Group Meeting: Pre-K at Elementary Schools		
ATTENDING:	Dr. Jennifer Fisher-Mueller (JFM)	Superintendent	
	Patricia Kinsella (PK)	Assistant Superintendent	
	Barry Nectow (BN)	Business Manager	
	Debbie Rooney (DR)	K-8 <sup>th</sup>	
	Bob McCarthy (BM)	Building Renovations Committee	
	Donna Kilday	E.C.C.	
	Mike Pirollo (MP)	Dore & Whittier	
	Maria Fernandez-Donovan (MFD)*	Dore & Whittier, Project Manager	

#### PURPOSE

To provide update and discuss feasibility options for Pre-K classrooms at the 3 Canton elementary schools and Rodman Hall as well as discuss JFK modular classroom addition.

NOTES	ACTION BY
<ol> <li>D&amp;W presented 2 options for Pre-K at Rodman Building         <ol> <li>Option 1: All classrooms on the lower floor, some program on the second floor.</li> <li>Classroom size range: 793-870 SF.</li> <li>Donna stated that this scheme would give her at least a capacity of 150 children for the program.</li> <li>Speech on the upper floor is not advantageous.</li> <li>OT/PT and Indoor Motor work well together.</li> <li>Speech and OT/PT also work well together.</li> <li>Indoor Motor was perceived as too big initially. It was concluded that more space is better for the children to move more. Overall size for Indoor Motor can be similar to a standard classroom.</li> <li>For security concerns, the addition of a door at the second floor to control public access was suggested.</li> </ol> </li> </ol>	

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NOTES	ACTION BY
<ul> <li>A new entry proposal is welcome, yet it conflicts with a proposed relocated playground that the group had been thinking about.</li> <li>Doption 2: 4 classrooms at the upper level while the rest of the program at the lower level.</li> <li>The location of the entry works well with the alternate location for the playground.</li> <li>Donna likes the layout: <ol> <li>Add a security door at upper level.</li> <li>Better entry location</li> <li>Indoor Motor, OT/PT and Speech make sense together.</li> <li>The nurse is close to all at this location.</li> </ol> </li> <li>Parking works well when classrooms are divided in two levels because parking at both sides of the building can be used.</li> <li>This scheme offers better construction phasing.</li> <li>Noise created by Indoor Motor is not an issue at the lower floor.</li> <li>The staff room looks too long. (con)</li> <li>The Family Room can be used for meetings.</li> <li>Classrooms all along the one hall create a runway affect that does not provide the same neighborhood cluster as the 4 rooms on the upper floor. D&amp;W to work through an alternative option where 2 classrooms are switched with Indoor Motor and OT/PT.</li> </ul>	D&W
<ol> <li>D&amp;W presented the options for Pre-K within the existing elementary schools.         <ul> <li>Luce:</li> <li>Pro: Science, health, &amp; music would be relocated to 850 sf. Modular classrooms could be smaller and potentially less expensive than if PK was in the modular classrooms.</li> <li>Pro: The Music Room size would be similar to other music rooms in the district</li> <li>Pro: PK configured inside the building in rooms with internal toilets, may result in less costly renovation.</li> <li>PK and Kindergarten switch would improve the layout.</li> <li>Con: Despite a smaller modular classroom addition, the site is very tight; the playground would be affected, the wetlands would be encroached; the road would need to be relocated in an already tight area.</li> <li>Con: Drawing shows OT/PT where there is currently and entry that the school does not want to lose.</li> <li>The consensus is that this option is not great.</li> </ul> </li> </ol>	

NOTES	ACTION BY
<ul> <li>b. Hansen</li> <li>Con: PK configured inside the building displacing one grade to the modular would consist of 4 classrooms, so the modular addition would not be smaller; no site benefit.</li> <li>3 PK classrooms and 1 family room would take the four grade classrooms.</li> <li>The site constraints remain the same as previously proposed addition options, at either side of the building, the same as if PK was in the modular.</li> <li>The consensus is that this option is not great.</li> <li>c. JFK</li> <li>PK would replace the grade 2 classrooms in the main building near K.</li> <li>CON: 4 classrooms of Grade 2 would be relocated to modular classrooms, therefore making the additions larger.</li> <li>The consensus is that this option is not great.</li> </ul>	
either school.	
<ul> <li>3. D&amp;W presented two options for the JFK Modular classroom expansion. Both maintain fire department access and require parking relocation.</li> <li>a. Five (5) 850 SF Modular General Classrooms, no bathrooms</li> <li>b. Three (3) 1200 SF Pre-K/K Classrooms with Toilets</li> <li>The group agreed that more than three classrooms are needed and that it is not necessary for these classrooms to have internal bathrooms as the Pre-K solution will be elsewhere.</li> </ul>	
<ul> <li>The options on the table are:         <ul> <li>a. Five classrooms, although the school would prefer them bigger than 850SF and closer to 1000SF.</li> <li>b. Four bigger classrooms if 5 large classrooms do not fit in the site.</li> </ul> </li> <li>Either options should remain within the budget.</li> </ul>	D&W
<ul> <li>4. The group discussed the advantages of having PK in Rodman Building. <ul> <li>a. Renovating Rodman for PK seems more economic than addition or renovation at all three elementary schools.</li> <li>b. Renovating Rodman for PK seems less disruptive than addition or renovation at all three elementary schools.</li> <li>c. Rodman renovation works better with controlled growth and phasing-renovate what is needed as it is needed.</li> <li>d. One PK area is better for the staff instead of dispersed into 3 areas.</li> <li>e. Both Rodman Building options offer great natural light.</li> </ul> </li> </ul>	

NOTES		ACTION BY	
5.	Next St	eps:	
	a.	Survey JFK site - Staff is being CORI'd so survey can be scheduled.	
	b. c.	<ul> <li>Complete preliminary cost estimates <ol> <li>2 options for PK at Rodman building</li> <li>PK modular at each school</li> <li>PK inside at each school w/ modulars to house alternate grade</li> <li>8th grade academy at Rodman (for study purposes)</li> </ol> </li> <li>D&amp;W and Working Group will recommend best option following the cost estimates and site survey</li> </ul>	
6.	Next me	eeting: October 4, 2018.	ALL

The above is my summation of our meeting. If you have any additions and/or corrections, please contact me for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

#### DORE & WHITTIER ARCHITECTS, INC.

Architects 

Project Managers

Maria Fernandez-Donovan AIA, LEED AP BD+C Project Manager

cc: Attendees and File



### **MEETING MINUTES**

DATE OF MEETING:	October 11, 2018		
PROJECT:	Canton Public Schools Feasibility Study and JFK Modular Classrooms		
PROJECT NO.:	18-0773 and 18-0776		
SUBJECT:	Working Group Meeting: Pre-K at Elementary Schools		
ATTENDING:			
	Barry Nectow (BN)	Business Manager	
	Brian Lynch	CPS Director of Facilities	
	Debbie Rooney (DR)	K-8 <sup>th</sup>	
	Bob McCarthy (BM)	Building Renovations Committee	
	Donna Kilday	E.C.C.	
	Mike Pirollo (MP)	Dore & Whittier	
	Maria Fernandez-Donovan (MFD)*	Dore & Whittier, Project Manager	

#### PURPOSE

To provide update and discuss feasibility options for Pre-K classrooms and District Offices at Rodman Hall as well as discuss JFK modular classroom addition.

NOTES		ACTION BY	
1.	. D&W presented 3 options for Pre-K at Rodman Building		
	а.	Option 1: All classrooms on the lower floor, some program on the second floor.	
		<ul> <li>This option was not preferred previously due to the locations of the entry in conflict with proposed playground location.</li> </ul>	
	b.	Option 2: 4 classrooms at the upper level while the rest of the program at the lower level.	
		<ul> <li>This option was presented previously, liked with requested revisions.</li> </ul>	
	C.	Option 2 revised 4 classrooms at the upper level while the rest of the program at the lower level clustered in the middle of the building as opposed to a row.	
		<ul> <li>The location of the entry works well with the alternate location for the playground with glass front door.</li> </ul>	
		<ul> <li>Donna likes the layout the best:</li> </ul>	
		1. Add a security door at upper level.	
		2. Better entry location	

260 Merrimac Street Bldg 7 Newburyport, MA 01950 978.499.2999 ph 978.499.2944 fax

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955

NO	TES		ACTION BY	
	3.	Indoor Motor, OT/PT and Speech make sense		
		together at new location.		
	4.	The nurse is close to all at this location.		
	5.	Parking works well when classrooms are divided in		
		two levels because parking at both sides of the		
		building can be used.		
	6.	Noise created by Indoor Motor is not an issue at the		
	_	lower floor in new location.		
	1.	The staff room layout was improved.		
	8.	The Family Room can be used for meetings near		
	•	entry.		
	9.	Classroom locations create more sense of security		
		for the children.		
			D&W	
2.	Playground location is ac	ceptable where proposed: I deal for Pre-K No need to		
	replace the parking spots	taken as there is enough on site.		
3.	The group discussed the	advantages of having PK in Rodman Building.		
	<ul> <li>Renovating Rod</li> </ul>	man for PK seems more economic than addition or		
	renovation at all	three elementary schools.		
	b. Renovating Rod	man for PK seems less disruptive than addition or		
	renovation at all three elementary schools.			
	c. Rodman renovation works better with controlled growth and phasing-			
	renovate what is	needed as it is needed		
	d One PK area is	hetter for the staff instead of dispersed into 3 areas		
	e Both Rodman Bi	uilding options offer great natural light		
	e. Dour Roundin Di	unding options oner great natural light.		
4.	D&W presented District C	Offices options at Rodman.		
	a. One option place	ed the District Offices at space left after Pre-K Option 2		
	revised would be	e build. Part of main floor and all the top floor.		
	b. Next options sho	owed the District offices with our Pre-K in the building,		
	occupying main	floor and half of lower floor.		
	The aroun stated the	t the District offices do not need to be renovated in		
	Podman The existin	a snace less that snace that the Option 2 revised would		
		ig space less that space that the Option zievised would		
	leave is acceptable v			
	D&W will price the D	istrict Office with Pre-K option for reference.		
5.	JFK Options			
	-5 Class rooms options is	beyond Canton's budget.		
	-4 classroom option is wit	h budget and fits well on site.		
	-Consider options with 4 classrooms with the 5 <sup>th</sup> classroom as an add-alternate.			
Barry will think about the options an provide direction to D&W.				

NOTES	
6. Next Steps:	ALL
<ul> <li>Complete preliminary cost estimates:</li> </ul>	
<ul> <li>2 options for PK at Rodman building</li> </ul>	
<ul> <li>PK modular at each school</li> </ul>	
<ul> <li>PK inside at each school w/ modular classrooms to house</li> </ul>	
alternate grade	
<ul> <li>8th grade academy at Rodman (for study purposes)</li> </ul>	
<ul> <li>D&amp;W to proceed with Working Group's JFK selection</li> </ul>	
7.	
Next meeting: October 25, 2018.	

The above is my summation of our meeting. If you have any additions and/or corrections, please contact me for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects 

Project Managers

Maria Fernandez-Donovan AIA, LEED AP BD+C Project Manager

cc: Attendees and File

# Canton Public Schools

Working Group Meeting 10.11.18



# AGENDA

### □ Rodman:

- Pre-K Option (Revised)
- Pre-K Playground
- Pre-K & District Combined
- District Only

 $\hfill\square$  JFK Modular Classrooms

## $\hfill\square$ Next Steps



### **Pros:**

- PK classrooms (8)w/internal toilets
- □ Admin Suite
- □ Meets Program Needs

### **Cons:**

- □ Room sizes are inequitable
- □ Indoor Motor, Speech, Staff Rm. disconnected on 2<sup>nd</sup> floor

Moderate level of construction



ption X Д Rodman

### **Pros:**

- PK classrooms (9) w/internal toilets
- □ Admin Suite
- $\hfill\square$  Meets Program Needs
- Indoor Motor, Speech, Staff Rm. connected on 1<sup>st</sup> floor

### **Cons:**

□ Classrooms disconnected between 2 floors

# Moderate level of construction



 $\mathbf{N}$ Option  $\mathbf{PK}$ Rodman



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ground  $\mathbf{N}$ ರ — Д  $\mathbf{PK}$ U Rodma





# JFK Options

- $\Box$  5 classrooms
- $\Box$  4 classrooms
- $\square$  4 classrooms with 5<sup>th</sup> add/alt



October 11, 2018	OVERALLL BUILDING GSF	6,210
Estimated Project Budget	Construction Cost Building \$/SF	\$401
Option 1b, 5 classrooms		
CONSTRUCTION		
1 Construction Cost including Site work (Trade Costs)		\$1.881.31
Classrooms / Corridor (6,201 SF @ \$200/SF)		\$1,242.00
Connector (500 SF @ \$300/SF)		\$150,000
Secondary Ramp / Stair (250 SF @ \$150/SF)		\$37,50
Sitework (6,951 SF @ \$65/SF)		\$451.81
2 Bonds & Insurance		\$47,03
3 Overhead & Profit		\$188,13
4 General Requirements/General Conditions		\$225,75
5 Escalation		\$56,43
6 D&P Contingency @ 5%		\$94,06
7 Construction Subtotal		\$2,492,74
		+=+==+=
PROFESSIONAL SERVICES		
8 Architect/Engineering Fees		\$255,450
9 Owner's Project Manager (OPM)		\$87,246
10 Hazardous Abatement Design/Oversight (Industrial Hy	gienist)	\$0
11 Information Technology Procurement (Loose) (by Scho	ool District)	\$(
12 FF&E Procurement (Loose)		\$0
13 Traffic Study		\$(
14 Geotechnical Engineering (monitoring)		\$(
15 GeoEnvironmental Engineering		\$(
16 Survey/Wetlands		\$(
17 Permitting		\$(
18 Professional Services Subtotal		\$342,690
OTHER SOFT COSTS		
19 Eurnishings, Eixtures and Equipment (allowance)		Ś
20 Loose Technology (allowance)		\$25.00
21 Construction Testing (allowance)		\$10,000
22 Moving Costs (by School)		\$10,000
22 Property Title Paview (allowance)		
24 Litility Back Charges (allowance)		ېږ د مې
24 Othity Back Charges (allowance)		\$5,000
25 Legal (allowance)		50
26 Printing (allowance)		\$2,500
27 Advertising (allowance)		\$500
30 Miscellaneous Expenses		\$2,500
28 Other Soft Costs Subtotal		\$45,500
CONTINGENCY		I
29 Owner Construction Contingency (7.5%)		\$186.956
30 Owner Discretionary Contingency (2.5%)		\$62.319
31 Contingency Subtotal		\$249,274
		A
32 Total Project Cost		\$3,130,213
32 Total Project Cost Note: All costs are estimated		\$3,130,213
32 Total Project Cost Note: All costs are estimated		\$3,130,213
32 Total Project Cost Note: All costs are estimated BUDGET		\$3,130,213



JFK ELEMENTARY MODULAR PROJECT				
Octo	ober 11, 2018	OVERALLL BUILDING GSF	5,068	
Estimated Project Budget Construction Cost Building \$/SF				\$419
Option	n 1c - 4 classrooms			
CONST	RUCTION		-	
1	Construction Cost including Site work (Trade Costs)		T	\$1,601,170
-	Classrooms / Corridor (5.068 SF @ \$200/SF)			\$1.013.600
	Connector (560 SF @ \$300/SF)			\$168,000
	Secondary Ramp / Stair (250 SF @ \$150/SF)		1	\$37,500
	Sitework (5.878 SF @ \$65/SF)			\$382.070
2	Bonds & Insurance		+	\$40.029
3	Overhead & Profit		-	\$160,117
4	General Requirements/General Conditions		1	\$192,140
5	Escalation			\$48,035
6	D&P Contingency @ 5%			\$80,059
7	Construction Subtotal			\$2,121,550
PROFES	SIONAL SERVICES		<u> </u>	
8	Architect/Engineering Fees			\$255,450
9	Owner's Project Manager-OPM (est. 3.5%)			\$74,254
10	Hazardous Abatement Design/Oversight (Industrial Hygienis	t)		\$0
11	Information Technology Procurement (Loose) (by School Dis	trict)		\$0
12	FF&E Procurement (Loose)			\$0
13	Traffic Study			\$0
14	Geotechnical Engineering (monitoring)			\$0
15	GeoEnvironmental Engineering			\$0
16	Survey/Wetlands			\$0
17	Permitting			\$0
18	Professional Services Subtotal			\$329,704
OTHER	SOFT COSTS			
19	Furnishings, Fixtures and Equipment (allowance)			\$0
20	Loose Technology (allowance)			\$20,000
21	Construction Testing (allowance)			\$10,000
22	Moving Costs (by School)			\$0
23	Property Title Review (allowance)			\$0
24	Utility Back Charges (allowance)		+	\$5.000
25	Legal (allowance)		-	\$0
26	Printing (allowance)		+	\$2.500
20	Advertising (allowance)		+	\$500
30	Miscellaneous Evnenses		+	\$2,500
30	Other Seft Costs Subtetal			\$2,500
20	Other Soft Costs Subtotal		1	\$40,500
CONTIN	IGENCY			
29	Owner Construction Contingency (7.5%)		T	\$159.116
30	Owner Discretionary Contingency (2.5%)		+	\$53,039
31	Contingency Subtotal		_	\$212 155
51	Secol Sandra		1	<i>vzzzzjzjzj</i>
37	Total Project Cost			\$2 703 910
32	Note: All costs are estimated		-	92,703,910
	Note: All costs are estimated		+	
			+	
DUD			-	2 000 000
BODG			>	2,000,000
				(\$703,910)



### $\Box$ 4 classrooms with 5<sup>th</sup> add/alt

- Classroom orientation
- Exterior Views & Daylighting
- Borrowed Lights
- Massing

# next steps

**Complete preliminary cost estimates:** 

- 2 options for PK at Rodman building
- PK modular at each school
- PK inside at each school w/ modulars to house alternate grade
- 8th grade academy at Rodman (for study purposes)

**D**&W to proceed with Working Group's JFK selection
# thank you

# **STRUCTURAL ASSESSMENT**

The purpose of this report is to follow-up on the structural assessment conducted in November of 2016. This report will describe, in broad terms, the structure of the existing building; comment on the condition of the existing building; and on the feasibility of renovations and expansion of the school

# SCOPE

- Description of existing structure
- Comments on the existing condition
- Comments on the feasibility of renovation and expansion.

# **BASIS OF REPORT**

This report is based on our visual observations during our site visit on July 11, 2018 and a review of the assessment report of the Childhood Center conducted in November of 2016.

During our site visit, we did not remove any permanent finishes or take measurements. Our understanding of the structure is limited to the exposed structure and the exterior facade.

# **BUILDING DESCRIPTION**

The Rodman Early Childhood Center is located in the former Rodman School located on Washington Street in Canton, Massachusetts. The original school was constructed in 1949, followed by the addition of an academic wing housing 12 classrooms on three levels a few years later. An interior elevator and lobby was constructed in 2007. The building is essentially a three-story concrete framed structure with a double-story gymnasium above the main level.

The lower level is a concrete slab on grade. The main level floor, the upper level floor and the roof are of similar construction. The typical floor and roof of the original building is a concrete one-way slab spanning between reinforced concrete beams. The concrete beams span between concrete columns along the corridor walls and exterior concrete columns or masonry piers located between exterior windows. The corridor floor is a two-way, reinforced concrete slab spanning between reinforced concrete beams supported on columns on each side of the corridor and beams spanning across the corridor.

The later addition is framed a little differently than the original construction. The typical floor and roof is reinforced concrete slab spanning between concrete beams. We measured the thickness of the roof slab at an existing core location; the slab thickness measured was 8 in. thick.

The corridor walls and the demising walls between the classrooms are masonry; they do not appear to be load bearing, but, probably provide some lateral load resistance to the building structure.

# **EXISTING CONDITIONS**

Based on our observations, the structure is performing well. We did not observe any signs of foundation settlement or any excessive vibrations due to footfall on supported floors. The conditions are essentially the same as we observed during the study and assessment conducted in November of 2016.

# **PROPOSED SCHEMES**

Based on our observations and analysis of the existing drawings, no structural upgrades are required for any proposed renovations of limited scope that do not invoke any required structural modifications. The extent of the code required structural upgrades is dependent on the extents of the proposed renovations. The following is a description of the compliance methods that may be triggered depending on the extents of the proposed schemes as dictated by other disciplines.

# **GENERAL CODE CONSIDERATIONS**

If any repairs, renovations, additions or change of occupancy or use are made to the existing structure, an evaluation of the structure is required to demonstrate compliance with 780 CMR, Chapter 34 "Existing Building Code" (Massachusetts Amendments to The International Existing Building Code 2015). The intent of the IEBC and the related Massachusetts Amendments to IEBC is to provide alternative approaches to alterations, repairs, additions and/or a change of occupancy or use without requiring full compliance with the code requirements for new construction.

The IEBC provides three compliance methods for the repair, alteration, change of use, or additions to an existing structure. The three compliance methods are as follows:

- 1. Prescription Compliance Method.
- 2. Work Area Compliance Method.
- 3. Performance Compliance Method.

# Prescriptive Compliance Method

In this method, compliance with Chapter 4 of the IEBC is required. As part of the scope of this report, the extent of the compliance requirements identified are limited to the structural requirements of this chapter.

# **Alterations**

- If the proposed alterations of the structures increase the demand-capacity ratio of any lateral load resisting element by more than 10 percent, the structure of the altered building or structure shall meet the requirements for the code for new construction.
- Where alterations increase the design gravity loads by more than 5 percent on any structural members, those members would have to be strengthened, supplemented, or replaced.

# Additions

Additions can be designed to be structurally separate or structurally connected to the existing building. Based on the project scope, the following structural issues must be addressed: The requirements applicable to the existing structure for connected additions are similar to those for altered structures.

- All construction of all addition areas must comply with the code requirements for new construction in the IBC.
- For additions that are not structurally independent of an existing structure, the following rules apply to the existing building:
- The existing structure and its addition acting as a single structure must meet the requirements of the code for new construction for resisting lateral loads. Exceptions allow that structural elements that only resist lateral forces whose demand-capacity ratio is not increased by more than 10 percent may remain unaltered.

Any load-bearing structural element for which the addition or its related alterations causes an increase in the design gravity load of more than 5 percent shall be strengthened. In order to avoid invoking required structural modifications to the existing building, any planned additions should be designed as structurally separate buildings.

# Work Area Compliance Method

In this method, compliance with Chapter 5 through 13 of the IEBC is required. The extent of alterations has to be classified into LEVELS OF WORK based on the scope and extent of the alterations to the existing building. Refer to the Regulatory Overview section of this report for an explanation of the Levels of Work.

This report assumes that planned renovation schemes would affect more than 50 percent of the floor area and invoke Level 3 Alteration requirements, and the following analysis is based on that assumption. In addition, there are requirements that have to be satisfied for additions to the existing structure.

# Level 3 Alterations

- Any existing load-bearing structural element for which an alteration causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.
- If the proposed structural alterations of an existing structure exceed 30 percent of the total floor and roof areas of an existing structure, we have to demonstrate that the altered structure complies with the IBC for wind loading and with reduced IBC level seismic forces.
- Existing anchorage of all unreinforced masonry walls to the structure have to be evaluated. If the existing anchorage of the walls to the structure is deficient, the tops of the masonry walls will require new connections to the structure.
- If the proposed structural alterations of an existing structure are less than 30 percent of the total floor and roof areas of the existing structure, the project must demonstrate that the altered structure complies with the loads applicable at the time of the original construction (or the most recent major renovation) and that the seismic demand-capacity ratio is not increased by more than 10 percent on any existing structural element. Those structural elements whose seismic demand-capacity ratio is increased by more than 10 percent must be strengthened, supplemented, or replaced in order to comply with reduced IBC level seismic forces.
- Anchorage of all unreinforced masonry walls to the structure have to be evaluated.

# **Additions**

- All additions shall comply with the requirements for the code for new construction in the IBC.
- Any existing gravity, load-carrying structural element for which an addition or its related alterations cause an increase in design gravity load of more than 5 percent shall be strengthened, supplemented or replaced.
- For additions that are not structurally independent of any existing structures, the existing structure and its additions, acting as a single structure, shall meet the requirements of the code for new construction in the IBC for resisting wind loads and IBC Level Seismic Forces (may be lower than loads from the Code for New Construction in the IBC), except for small additions that would not increase the lateral force story shear in any story by more than 10 percent cumulative. In this case, the existing lateral load resisting system can remain unaltered.

# Performance Compliance Method

Following the requirements of this method for the alterations and additions may be onerous on the project because this method requires that the altered existing structure and the additions meet the requirements for the code for new construction in the IBC.

# **SUMMARY**

The existing school structure appears to be performing well. All of the structural components that are visible appear to be in sound condition. The cracks in the interior masonry walls and the minor spalling of concrete that was observed are not a structural concern. We would recommend that these cracks in the masonry walls and spalls in the concrete foundation walls be repaired as part of the regular maintenance program.

The compliance requirements of the two Prescriptive and Work Area Compliance methods are very similar in most respects for a major renovation. The Prescriptive Compliance Method would be more restrictive, as it

Canton, Massachusetts

would likely require that the existing lateral load resisting systems of the existing building meet the requirements of the code for new construction of the IBC, even for small increases of design lateral loads. Based on this, we would recommend the Work Area Compliance Method for the project.

Any major proposed renovations and additions would likely require that the structure be updated to meet the requirements for the Code for New Construction. This may require addition of some shear walls, connecting the floor and roof diaphragms to the existing masonry walls and the clipping of non-structural walls to the structure. All of the existing masonry walls would have to be adequately connected to the roof and floor structure.

It should be noted that even though the existing masonry walls along the corridor and the demising walls between classrooms are not load bearing walls, the walls would be considered as shear walls. If the proposed renovations require reconfiguration of these walls, a structural analysis would be required and may require addition of new masonry shear walls.



**Feasibility Estimate** 

# Canton Schools Design Options

Canton, MA

PM&C LLC

20 Downer Ave, Suite 1C Hingham, MA 02043 (T) 781-740-8007 (F) 781-740-1012 Prepared for:

**Dore + Whittier Architects, Inc.** 

December 11, 2018



# **Feasibility Estimate**

11-Dec-18

MAIN CONSTI	RUCTION COST SUM	MARY		
	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
<b>RODMAN OPTION 1.0</b>				
	May-19			
RENOVATIONS TO EXISTING SCHOOL		15,810	\$147.09	\$2,325,542
REMOVE HAZARDOUS MATERIALS				\$10,000
SITEWORK - RELOCATE PLAYGROUND				\$150,000
SUB-TOTAL		15,810	\$157.21	\$2,485,542
ESCALATION TO START OF CONSTRUCTION	3%			\$74,566
DESIGN AND PRICING CONTINGENCY	15%			\$384,016
SUB-TOTAL		15,810	\$186.22	\$2,944,124
GENERAL CONDITIONS	10%			\$294,412
BONDS	1.25%			\$36,802
INSURANCE	1.50%			\$44,162
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$117,765
PHASING PREMIUM				NIC
TOTAL OF ALL CONSTRUCTION		15,810	\$217.41	\$3,437,265

RODMAN ACCESSIBILITY UPGRADES

\$380,880



**Feasibility Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
<b>RODMAN OPTION 2.0</b>				
	May-19			
RENOVATIONS TO EXISTING SCHOOL		17,223	\$149.33	\$2,571,959
REMOVE HAZARDOUS MATERIALS				\$10,000
SITEWORK - RELOCATE PLAYGROUND				\$150,000
SUB-TOTAL		17,223	\$158.62	\$2,731,959
ESCALATION TO START OF CONSTRUCTION	3%			\$81,959
DESIGN AND PRICING CONTINGENCY	15%			\$422,088
SUB-TOTAL		17,223	\$187.89	\$3,236,006
GENERAL CONDITIONS	10%			\$323,601
BONDS	1.25%			\$40,450
INSURANCE	1.50%			\$48,540
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$129,440
PHASING PREMIUM				NIC
TOTAL OF ALL CONSTRUCTION		17,223	\$219.36	\$3,778,037

**RODMAN ACCESSIBILITY UPGRADES** 

\$380,880



# **Feasibility Estimate**

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
<b>RODMAN OPTION 3.0</b>				
	May-19			
RENOVATIONS TO EXISTING SCHOOL		35,310	\$137.93	\$4,870,438
REMOVE HAZARDOUS MATERIALS				\$10,000
SITEWORK - RELOCATE PLAYGROUND				\$150,000
SUB-TOTAL		35,310	\$142.46	\$5,030,438
ESCALATION TO START OF CONSTRUCTION	3%			\$150,913
DESIGN AND PRICING CONTINGENCY	15%			\$777,203
SUB-TOTAL		35,310	\$168.75	\$5,958,554
GENERAL CONDITIONS	10%			\$595,855
BONDS	1.25%			\$74,482
INSURANCE	1.50%			\$89,378
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$238,342
PHASING PREMIUM				NIC
TOTAL OF ALL CONSTRUCTION		35,310	\$197.02	\$6,956,611

## **RODMAN ACCESSIBILITY UPGRADES**

\$380,880



# Feasibility Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
HANSEN EAST				
	May-19			
MODULAR BUILDING		5,600	\$200.00	\$1,120,000
STAIR/RAMP (interior)		450	\$300.00	\$135,000
STAIR/RAMP (exterior)		450	\$150.00	\$67,500
SITEWORK - Allowance				\$120,000
SUB-TOTAL		6,050	\$238.43	\$1,442,500
ESCALATION TO START OF CONSTRUCTION	3%			\$43,275
DESIGN AND PRICING CONTINGENCY	15%			\$222,866
SUB-TOTAL		6,050	\$282.42	\$1,708,641
GENERAL CONDITIONS	10%			\$170,864
BONDS	1.25%			\$21,358
INSURANCE	1.50%			\$25,630
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$68,346
TOTAL OF ALL CONSTRUCTION		6,050	\$329.73	\$1,994,839



# Feasibility Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
HANSEN WEST				
	May-19			
MODULAR BUILDING		5,600	\$200.00	\$1,120,000
STAIR/RAMP (interior)		450	\$300.00	\$135,000
STAIR/RAMP (exterior)		550	\$150.00	\$82,500
SITEWORK - Allowance				\$120,000
SUB-TOTAL		6,050	\$240.91	\$1,457,500
ESCALATION TO START OF CONSTRUCTION	3%			\$43,725
DESIGN AND PRICING CONTINGENCY	15%			\$225,184
SUB-TOTAL		6,050	\$285.36	\$1,726,409
GENERAL CONDITIONS	10%			\$172,641
BONDS	1.25%			\$21,580
INSURANCE	1.50%			\$25,896
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$69,056
TOTAL OF ALL CONSTRUCTION		6,050	\$333.15	\$2,015,582



# Feasibility Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
LUCE				
LUCE				
	May-19			
MODULAR BUILDING		5,020	\$200.00	\$1,004,000
STAIR/RAMP (interior)		450	\$300.00	\$135,000
STAIR/RAMP (exterior)		550	\$150.00	\$82,500
SITEWORK - Allowance				\$200,000
SUB-TOTAL		5,470	\$259.87	\$1,421,500
ESCALATION TO START OF CONSTRUCTION	3%			\$42,645
DESIGN AND PRICING CONTINGENCY	15%			\$219,622
SUB-TOTAL		5,470	\$307.82	\$1,683,767
GENERAL CONDITIONS	10%			\$168,377
BONDS	1.25%			\$21,047
INSURANCE	1.50%			\$25,257
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$67,351
TOTAL OF ALL CONSTRUCTION		5,470	\$359.38	\$1,965,799

Canton School Projects Feasibility 12.11.18

Page 7



# Feasibility Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
IFV				
JIK				
	May-19			
MODULAR BUILDING		4,536	\$200.00	\$907,200
STAIR/RAMP (interior)		534	\$300.00	\$160,200
STAIR/RAMP (exterior)		550	\$150.00	\$82,500
SITEWORK - Allowance				\$100,000
SUB-TOTAL		5,070	\$246.53	\$1,249,900
ESCALATION TO START OF CONSTRUCTION	3%			\$37,497
DESIGN AND PRICING CONTINGENCY	15%			\$193,110
SUB-TOTAL		5,070	\$292.01	\$1,480,507
GENERAL CONDITIONS	10%			\$148,051
BONDS	1.25%			\$18,506
INSURANCE	1.50%			\$22,208
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$59,220
TOTAL OF ALL CONSTRUCTION		5,070	\$340.93	\$1,728,492



# Feasibility Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
JFK NORTH				
	May-19			
MODULAR BUILDING		5,020	\$200.00	\$1,004,000
STAIR/RAMP (interior)		1,100	\$300.00	\$330,000
SITEWORK - Allowance				\$120,000
SUB-TOTAL		6,120	\$237.58	\$1,454,000
ESCALATION TO START OF CONSTRUCTION	3%			\$43,620
DESIGN AND PRICING CONTINGENCY	15%			\$224,643
SUB-TOTAL		6,120	\$281.42	\$1,722,263
GENERAL CONDITIONS	10%			\$172,226
BONDS	1.25%			\$21,528
INSURANCE	1.50%			\$25,834
PERMIT				Waived
OVERHEAD + PROFIT	4.0%			\$68,891
TOTAL OF ALL CONSTRUCTION		6,120	\$328.55	\$2,010,742



## **Feasibility Estimate**

This feasibility cost estimate was produced from drawings, narratives and other documentation prepared by Dore and Whittier Architects Inc. and their design team dated November 20, 2018. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

# ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs All professional fees and insurance Site or existing conditions surveys investigations costs, including to determine subsoil conditions All Furnishings, Fixtures and Equipment Items identified in the design as Not In Contract (NIC) Items identified in the design as by others Owner supplied and/or installed items as indicated in the estimate Utility company back charges, including work required off-site Work to City streets and sidewalks, (except as noted in this estimate) Construction contingency Contaminated soils removal



Feasibility Estimate

11-Dec-18

GFA 15,810

		CONSTRUCT	ION COST SUMMA	RY			
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%	
RODMA	N OPTIO	N 1.0					
A10	FOUNI	DATIONS					
	A1010	Standard Foundations	\$15,000				
	A1020	Special Foundations	\$o				
	A1030	Lowest Floor Construction	\$73,860	\$88,860	\$5.62	3.8%	
B10	SUPER	STRUCTURE					
	B1010	Upper Floor Construction	\$21,000				
	B1020	Roof Construction	\$ <b>0</b>	\$21,000	\$1.33	0.9%	
B20	EXTER	IOR CLOSURE					
	B2010	Exterior Walls	\$o				
	B2020	Windows/Curtainwall	\$14,500				
	B2030	Exterior Doors	\$18,000	\$32,500	\$2.06	1.4%	
B30	ROOFI	NG					
0	B3010	Roof Coverings	\$o				
	B3020	Roof Openings	<b>\$</b> 0	<b>\$0</b>	\$0.00	0.0%	
C10	INTER	IOR CONSTRUCTION					
	C1010	Partitions	\$130,496				
	C1020	Interior Doors	\$175,922				
	C1030	Specialties/Millwork	\$50,952	\$357,370	\$22.60	15.4%	
C20	STAIR	CASES					
	C2010	Stair Construction	\$o				
	C2020	Stair Finishes	\$ <b>0</b>	<b>\$0</b>	\$0.00	0.0%	
C30	INTER	IOR FINISHES					
0,00	C3010	Wall Finishes	\$73,655				
	C3020	Floor Finishes	\$150,195				
	C3030	Ceiling Finishes	\$232,263	\$456,113	\$28.85	19.6%	
D10	CONVE	EVING SYSTEMS					
	D1010	Elevator	\$o	<b>\$0</b>	\$0.00	0.0%	
D20	PLUM	BING					
210	D20	Plumbing	\$134,512	\$134,512	\$8.51	5.8%	
D30	HVAC						
290	D30	HVAC	\$294,245	\$294,245	\$18.61	12.7%	
D40	FIRE P	ROTECTION					
	D40	Fire Protection	\$490.387	\$499.287	\$21,50	21.5%	
	- 10		¥T7790~7	₹ <i>₹₹₹₹</i> ₩	T <b>U-</b> U/	,,,,	
D50	ELECT	RICAL			\$2.061.4%\$0.000.0%\$22.6015.4%\$0.000.0%\$28.8519.6%\$0.000.0%\$8.515.8%\$18.6112.7%\$31.5921.5%\$15.9510.8%		
	D5010	Electrical Systems	\$252,210	\$252,210	\$15.95	10.8%	
E10	EQUIP	MENT	\$21,000       \$21,000       \$1.33         \$0       \$21,000       \$1.33         \$0       \$32,500       \$2.06         \$0       \$0       \$0         \$0       \$0       \$0         \$0       \$0       \$0.00         \$130,496       \$175,922       \$357,370       \$22.60       1         \$130,496       \$175,922       \$357,370       \$22.60       1         \$0       \$0       \$0       \$0.00       1         \$0       \$0       \$0       \$0.00       1         \$0       \$0       \$0.00       \$0.00       1         \$134,512       \$134,512       \$8.51       1         \$134,512       \$134,512       \$8.51       1         \$294,245       \$294,245       \$18.61       1         \$499,387       \$499,387       \$31.59       1         \$0       \$0       \$0       \$15.95       1         \$0       \$0       \$0.00       \$15.95       1				
	E10	Equipment	\$o	<b>\$0</b>	\$0.00	0.0%	



Feasibility Estimate

11-Dec-18

GFA 15,810

		CONSTRUCTION	V COST SUMMA	RY		
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
RODMA	N OPTIO	N 1.0				
E20	FURNI	SHINGS				
	E2010	Fixed Furnishings	\$67,256			
	E2020	Movable Furnishings	NIC	\$67,256	\$4.25	2.9%
F10	SPECIA	AL CONSTRUCTION				
	F10	Special Construction	\$o	<b>\$0</b>	\$0.00	0.0%
F20	SELEC?	<b>FIVE BUILDING DEMOLITION</b>				
	F2010	<b>Building Elements Demolition</b>	\$122,089			
	F2020	Hazardous Components Abatement	\$o	\$122,089	\$7.72	5.2%
TOTA	AL DIRE(	CT COST (Trade Costs)		\$2,325,542	\$147.09	100.0%



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Feasibility Estimate GFA 15,810 UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST **RODMAN OPTION 1.0 GROSS FLOOR AREA CALCULATION** Light Renovation 7,403 Medium Building Renovation 8,407 TOTAL GROSS FLOOR AREA (GFA) 15,810 sf FOUNDATIONS A10 A1010 STANDARD FOUNDATIONS New footing for shearwall lf 300.00 50 15,000 SUBTOTAL 15,000 A1020 SPECIAL FOUNDATIONS No work in this section SUBTOTAL A1030 LOWEST FLOOR CONSTRUCTION Sawcut slab for new footings lf 1,860 124 15.00 Remove slab for new footings  $\mathbf{sf}$ 3,000 300 10.00 Patch slab at new footings 20.00 300  $\mathbf{sf}$ 6,000 Cutting and patching 14,500  $\mathbf{sf}$ 4.00 58,000 Equipment pads ls5,000.00 5,000 1 SUBTOTAL 73,860 **TOTAL - FOUNDATIONS** \$88,860 **B10** SUPERSTRUCTURE **B1010 FLOOR CONSTRUCTION** New shear walls, 8" CMU 30.00 700 sf 21.000 SUBTOTAL 21,000 **B1020 ROOF CONSTRUCTION** No work in this section SUBTOTAL **TOTAL - SUPERSTRUCTURE** \$21,000 EXTERIOR CLOSURE **B20 B2010 EXTERIOR WALLS** No work in this section SUBTOTAL **B2020 WINDOWS/CURTAINWALL** New CW at vestibule 116  $\mathbf{sf}$ 125.00 14,500 SUBTOTAL 14,500

**B2030 EXTERIOR DOORS** 

New entry doors

2

 $\mathbf{pr}$ 

9,000.00

18,000





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#### Feasibility Estimate GFA 15,810 UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST **RODMAN OPTION 1.0** SUBTOTAL 18,000 **TOTAL - EXTERIOR CLOSURE** \$32,500 ROOFING B30 **B3010 ROOF COVERINGS** No work in this section SUBTOTAL **B3020 ROOF OPENINGS** No work in this section SUBTOTAL **TOTAL - ROOFING INTERIOR CONSTRUCTION** С10 C1010 PARTITIONS Light renovation - minor patching 7,403 $\operatorname{gsf}$ 4.00 29,612 gsf Medium renovation 8,407 100,884 12.00 SUBTOTAL 130,496 C1020 INTERIOR DOORS Light renovation - new doors/frames/hardware 7,403 gsf 6.00 44,418 Medium renovation - new doors/frames/hardware gsf 6.00 8,407 50,442 Overall building - new hardware 2.00 81,062 40,531 gsf SUBTOTAL 175,922 C1030 SPECIALTIES / MILLWORK Light renovation NIC Medium renovation Toilet Partitions and accessories gsf 6,726 8,407 0.80 Miscellaneous metals throughout 8,407 gsf 1.00 8,407 Rough blocking 8,407 gsf 0.50 4,204 Miscellaneous sealants throughout building 8,407 gsf 1.50 12,611 Code compliant signage $\operatorname{gsf}$ 8,407 0.25 2,102 General Building Lockers - paint existing 56,341 gsf 0.30 16,902 SUBTOTAL 50,952 **TOTAL - INTERIOR CONSTRUCTION** \$357,370 STAIRCASES C20 C2010 STAIR CONSTRUCTION Code upgrades to existing stairs 8 flts 7,500.00 See ADA Upgrades SUBTOTAL

#### C2020 STAIR FINISHES



ility Estim	ate					GFA	1
	DESCRIPTION	ΟΤΥ	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
MAN OPT	CION 1.0	QII	UNII	031	0001	IUIAL	0001
	SUBTOTAL					-	
	TOTAL - STAIRCASES						
Сзо	INTERIOR FINISHES	]					
C3010	WALL FINISHES						
	Light renovation - paint	7,403	gsf	2.00	14,806		
	Medium renovation	8,407	gsf	7.00	58,849		
	SUBTOTAL		0			73,655	
Casas	ELOOD EINIGHES						
03020	Light reportion	7 402	act	8 00	50.224		
	Medium renovation	7,403 8 407	goi gef	8.00	67.256		
	Floor prep	15 810	of	1.50	07,230		
		15,610	51	1.50	23,/15	150 105	
	SUBIOTAL					150,195	
Сзозо	CEILING FINISHES						
	Light renovation	7,403	gsf	7.00	51,821		
	Medium renovation	8,407	gsf	7.00	58,849		
	General building - remove and replace for fire protection installation	40,531	sf	3.00	121,593		
	SUBTOTAL					232,263	
	TOTAL - INTERIOR FINISHES						\$450
D10	CONVEYING SYSTEMS						
	No work in this section						
	SUBTOTAL					-	
	TOTAL CONVENTING SVETEME						
	IOTAL - CONVETTING STSTEMS						
D20	PLUMBING						
Dao	PLUMBING GENERALLY						
220	Light renovation				ETR		
	Medium Renovation - new plumbing - bathrooms	8.407	gsf	16.00	134.512		
	SUBTOTAL		o~*	10.00	-37,3**	134,512	
							dac.
	101AL - PLUMBING						<b>ş13</b> 4
D30	HVAC	]					
D30	HVAC, GENERALLY						
v	Light renovation				ETR		
	Medium renovation - complete HVAC system	8,407	gsf	35.00	294,245		
	SUBTOTAL					294,245	
	TOTAL - HVAC						\$294



## Feasibility Estimate

ility Estimate					GFA	
DESCRIPTION	ΟΤΥ	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTA
MAN OPTION 1.0		UIII	CODI		TOTAL	005
D40 FIRE PROTECTION						
D40 FIRE PROTECTION, GENERALLY New water line	1	ls	30 000 00	30,000		
Fire pump	1	ls	75.000.00	75,000		
Sprinkler system throughout	56,341	gsf	7.00	394,387		
SUBTOTAL		-			499,387	
TOTAL - FIRE PROTECTION						\$499
D50 ELECTRICAL						
D5010 ELECTRICAL SYSTEMS						
Light renovation				ETR		
Medium renovation	8,407	gsf	30.00	252,210		
SUBTOTAL					252,210	
TOTAL - ELECTRICAL						\$25
E10 EQUIPMENT						
E10 EQUIPMENT, GENERALLY						
No work in this section						
SUBTOTAL					-	
TOTAL - EQUIPMENT						
E20 FURNISHINGS						
E2010 FIXED FURNISHINGS CASEWORK						
Light renovation				ETR		
Medium renovation	8,407	gsf	8.00	67,256		
SUBTOTAL					67,256	
E2020 MOVABLE FURNISHINGS						
All movable furnishings to be provided and installed						
by owner SUBTOTAL					NIC	
					- Nic	
TOTAL - FURNISHINGS						\$67
F10 SPECIAL CONSTRUCTION						
F10 SPECIAL CONSTRUCTION SUBTOTAL					_	
TOTAL - SPECIAL CONSTRUCTION						



# Canton Schools Design Options

Canton, MA

bility Estim	ate					GFA	15,810
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
MAN OP	FION 1.0						
F20	SELECTIVE BUILDING DEMOLITION	]					
F2010	<b>BUILDING ELEMENTS DEMOLITION</b>						
	Minor renovation - flooring and ceilings	7,403	gsf	3.00	22,209		
	Medium renovation - finishes, partitions, MEP	8,407	gsf	10.00	84,070		
	Temporary enclosures/protection	15,810	gsf	1.00	15,810		
	SUBTOTAL					122,089	
F2020	HAZARDOUS COMPONENTS ABATEMENT						
	See summary						
	SUBTOTAL						
тот	TAL - SELECTIVE BUILDING DEMOLITION						\$122,089



11-Dec-18

Feasibility	y Estimate				GFA	17,223
		CONSTRUCT	ION COST SUMMA	RY		
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
RODMA	N OPTIO	N 2.0				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$15,000			
	A1020	Special Foundations	\$o			
	A1030	Lowest Floor Construction	\$73,860	\$88,860	\$5.16	3.5%
<b>B10</b>	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$21,000			
	B1020	Roof Construction	\$o	\$21,000	\$1.22	0.8%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$o			
	B2020	Windows/Curtainwall	\$14,500			
	B2030	Exterior Doors	\$18,000	\$32,500	\$1.89	1.3%
B30	ROOFI	NG				
Ū	B3010	Roof Coverings	\$o			
	B3020	Roof Openings	\$o	<b>\$0</b>	\$0.00	0.0%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$150,836			
	C1020	Interior Doors	\$181,574			
	C1030	Specialties/Millwork	\$58,387	\$390,797	\$22.69	15.2%
C20	STAIR	CASES				
	C2010	Stair Construction	\$o			
	C2020	Stair Finishes	\$o	<b>\$0</b>	\$0.00	0.0%
С30	INTER	IOR FINISHES				
-	C3010	Wall Finishes	\$85,661			
	C3020	Floor Finishes	\$163,619			
	C3030	Ceiling Finishes	\$237,915	\$487,195	\$28.29	18.9%
D10	CONVE	<b>EYING SYSTEMS</b>				
	D1010	Elevator	\$o	<b>\$0</b>	\$0.00	0.0%
D20	PLUME	BING				
	D20	Plumbing	\$163,888	\$163,888	\$9.52	6.4%
D30	HVAC					
	D30	HVAC	\$358,505	\$358,505	\$20.82	13.9%
D40	FIRE P	ROTECTION				
	D40	Fire Protection	\$499,387	\$499,387	\$29.00	19.4%
D50	ELECT	RICAL				
	D5010	Electrical Systems	\$307,290	\$307,290	\$17.84	11.9%

#### E10 EQUIPMENT E10 Equipment

**\$**0

\$0.00

0.0%

**\$0** 



Feasibility Estimate

GFA

11-Dec-18

17,223

		CONSTRUCTION	N COST SUMMA	RY		
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
RODMA	N OPTIO	N 2.0				
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$81,944			
	E2020	Movable Furnishings	NIC	\$81,944	\$4.76	3.2%
F10	SPECIA	L CONSTRUCTION				
	F10	Special Construction	\$o	<b>\$0</b>	\$0.00	0.0%
F20	SELEC	<b>FIVE BUILDING DEMOLITION</b>				
	F2010	Building Elements Demolition	\$140,593			
	F2020	Hazardous Components Abatement	\$o	\$140,593	\$8.16	5.5%
TOT	AL DIRE	CT COST (Trade Costs)		\$2.571.050	\$1/0 33	100.0%
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Feasibility Estimate GFA 17,223 UNIT EST'D SUB TOTAL DESCRIPTION UNIT QTY COST COST TOTAL COST **RODMAN OPTION 2.0 GROSS FLOOR AREA CALCULATION** Light Renovation 6,980 Medium Building Renovation 10,243 TOTAL GROSS FLOOR AREA (GFA) 17,223 sf A10 FOUNDATIONS A1010 STANDARD FOUNDATIONS 15,000 New footing for shearwall 50 lf 300.00 SUBTOTAL 15,000 A1020 SPECIAL FOUNDATIONS No work in this section SUBTOTAL A1030 LOWEST FLOOR CONSTRUCTION Sawcut slab for new footings 124 lf 15.00 1,860 Remove slab for new footings  $\mathbf{sf}$ 10.00 3,000 300 Patch slab at new footings  $\mathbf{sf}$ 20.00 6,000 300 Cutting and patching 14,500  $\mathbf{sf}$ 4.00 58,000 Equipment pads ls 5,000.00 5,000 1 SUBTOTAL 73,860 **TOTAL - FOUNDATIONS** \$88,860 SUPERSTRUCTURE **B10 B1010 FLOOR CONSTRUCTION** New shear walls, 8" CMU 700  $\mathbf{sf}$ 30.00 21,000 SUBTOTAL 21,000 **B1020 ROOF CONSTRUCTION** No work in this section SUBTOTAL

TOTAL - SUPERSTRUCTURE

B20	EXTERIOR CLOSURE					
B2010	EXTERIOR WALLS					
	No work in this section					
	SUBTOTAL					-
B2020	WINDOWS/CURTAINWALL					
	New CW at vestibule	116	$\mathbf{sf}$	125.00	14,500	
	SUBTOTAL					14,500
B2030	EXTERIOR DOORS					
	New entry doors	2	pr	9.000.00	18.000	

\$21,000



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#### Feasibility Estimate GFA 17,223 UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST **RODMAN OPTION 2.0** SUBTOTAL 18,000 **TOTAL - EXTERIOR CLOSURE** \$32,500 ROOFING B30 **B3010 ROOF COVERINGS** No work in this section SUBTOTAL **B3020 ROOF OPENINGS** No work in this section SUBTOTAL **TOTAL - ROOFING INTERIOR CONSTRUCTION** С10 C1010 PARTITIONS 6,980 Light renovation - minor patching gsf 4.00 27,920 gsf Medium renovation 122,916 10,243 12.00 SUBTOTAL 150,836 C1020 INTERIOR DOORS Light renovation - new doors/frames/hardware 6,980 gsf 6.00 41,880 Medium renovation - new doors/frames/hardware gsf 6.00 10,243 61,458 Overall building - new hardware 2.00 78,236 39,118 gsf SUBTOTAL 181,574 C1030 SPECIALTIES / MILLWORK Light renovation NIC Medium renovation Toilet Partitions and accessories 10,243 gsf 0.80 8,194 Miscellaneous metals throughout 10,243 gsf 1.00 10,243 Rough blocking 10,243 gsf 0.50 5,122 Miscellaneous sealants throughout building 10,243 gsf 1.50 15,365 Code compliant signage $\operatorname{gsf}$ 10,243 0.25 2,561 General Building Lockers - paint existing 56,341 gsf 0.30 16,902 SUBTOTAL 58,387 **TOTAL - INTERIOR CONSTRUCTION** \$390,797 STAIRCASES C20 C2010 STAIR CONSTRUCTION Code upgrades to existing stairs 8 flts 7,500.00 See ADA Upgrades SUBTOTAL



SUB TOTAL - 85,661	TOTAL COST
85,661	
85,661	
85,661	
85,661	
85,661	
85,661	
85,661	
85,661	
85,661	
0,,001	
163,619	
237,915	
	\$487,1
-	
163,888	
	\$163,8
358,505	
	¢0-0 -
	163,619 237,915 - 163,888 163,888



#### Feasibility Estimate

ility Estimate					GFA	
DESCRIPTION	OTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
MAN OPTION 2.0		- Citili	0001	0001	Tottil	0001
D40 FIRE PROTECTION						
PAGE EIDE DROTECTION CENERALLY						
New water line	1	ls	30,000.00	30,000		
Fire pump	1	ls	75,000.00	75,000		
Sprinkler system throughout	56,341	gsf	7.00	394,387		
SUBTOTAL					499,387	
TOTAL - FIRE PROTECTION						\$499
D50 ELECTRICAL						
D5010 ELECTRICAL SYSTEMS				FØD		
Light renovation		6		EIR		
Medium renovation	10,243	gst	30.00	307,290		
SUBIOTAL					307,290	
TOTAL - ELECTRICAL						\$307
E10 EQUIPMENT						
E10 EQUIPMENT, GENERALLY						
No work in this section						
SUBTOTAL					-	
TOTAL - EQUIPMENT						
E20 FURNISHINGS						
E2010 FIXED FURNISHINGS CASEWORK						
Light renovation				ETR		
Medium renovation	10,243	gsf	8.00	81,944		
SUBTOTAL					81,944	
E2020 MOVABLE FURNISHINGS						
All movable furnishings to be provided and installed by owner						
SUBTOTAL					NIC	
TOTAL - FURNISHINGS						\$81
F10 SPECIAL CONSTRUCTION						
F10 SPECIAL CONSTRUCTION						
SUBIUTAL					-	
TOTAL - SPECIAL CONSTRUCTION						



# Canton Schools Design Options

Canton, MA

Feasibility Es	timate					GFA	17,223
	DESCRIPTION	05774	10/17	UNIT	EST'D	SUB	TOTAL
RODMAN	PTION 2 0	QII	UNII	cosi	cosi	IOTAL	cosi
RODULIN	110112.0						
F20	<b>D</b> SELECTIVE BUILDING DEMOLITION	]					
F20	10 BUILDING ELEMENTS DEMOLITION						
	Minor renovation - flooring and ceilings	6,980	gsf	3.00	20,940		
	Medium renovation - finishes, partitions, MEP	10,243	gsf	10.00	102,430		
	Temporary enclosures/protection	17,223	sf	1.00	17,223		
	SUBTOTAL					140,593	
F20:	20 HAZARDOUS COMPONENTS ABATEMENT						
	See summary						
	SUBTOTAL						
7	TOTAL - SELECTIVE BUILDING DEMOLITION						\$140,593
							11,070



Feasibility Estimate

11-Dec-18

GFA 35,310

		CONSTRUCT	ION COST SUMMAI	RY			
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%	
RODMA	N OPTIO	N 3.0					
A10	FOUNI	DATIONS					
	A1010	Standard Foundations	\$30,000				
	A1020	Special Foundations	\$0				
	A1030	Lowest Floor Construction	\$84,720	\$114,720	\$3.25	2.4%	
<b>B10</b>	SUDED	STRUCTURE					
DIU	B1010	Upper Floor Construction	\$427 712				
	B1020	Roof Construction	\$0	\$427.713	\$12.11	8.8%	
			+ -	+	+		
B20	EXTER	IOR CLOSURE					
	B2010	Exterior Walls	\$o				
	B2020	Windows/Curtainwall	\$14,500				
	B2030	Exterior Doors	\$18,000	\$32,500	\$0.92	0.7%	
B30	ROOFI	NG					
0	B3010	Roof Coverings	\$o				
	B3020	Roof Openings	\$o	<b>\$0</b>	\$0.00	0.0%	
C10	INTER	IOR CONSTRUCTION					
010	C1010	Partitions	\$325.008				
	C1020	Interior Doors	\$204.566				
	C1030	Specialties/Millwork	\$109,936	\$639,510	\$18.11	13.1%	
Cao	STAID	CASES					
020	Coolo	Stair Construction	¢0.				
	C2010 C2020	Stair Finishes	şυ \$0	<b>\$0</b>	\$0.00	0.0%	
					·		
C30	INTER	IOR FINISHES					
	C3010	Wall Finishes	\$185,475				
	C3020	Floor Finishes	\$335,445				
	C3030	Ceiling Finishes	\$289,232	\$810,152	\$22.94	16.6%	
D10	CONVE	EYING SYSTEMS					
	D1010	Elevator	\$o	<b>\$0</b>	\$0.00	0.0%	
D20	PLUME	BING					
	D20	Plumbing	\$367,536	\$367,536	\$10.41	7.5%	
D20	HVAC						
230	D30	HVAC	\$803,985	\$803,985	\$22.77	16.5%	
D40	FIDE D	POTECTION					
D40	DAO	Fire Protection	¢ 400 007	\$400 98=	¢1111	10.0%	
	D40	FILE FIORECHOIL	₹499 <b>,</b> 307	₹ <b>4</b> 99,307	<b>φ14.14</b>	10.3%	
D50	ELECT	RICAL					
	D5010	Electrical Systems	\$689,130	\$689,130	\$19.52	14.1%	
E10	EQUIP	MENT					
	E10	Equipment	\$o	<b>\$0</b>	\$0.00	0.0%	



Feasibility Estimate

GFA

11-Dec-18

35,310

		CONSTRUCTIO	N COST SUMMA	RY		
	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	SF	%
RODMA	Ν ΟΡΤΙΟ	N 3.0				
E20	FURNI	SHINGS				
	E2010	Fixed Furnishings	\$183,768			
	E2020	Movable Furnishings	NIC	\$183,768	\$5.20	3.8%
F10	SPECIA	AL CONSTRUCTION				
	F10	Special Construction	\$o	<b>\$0</b>	\$0.00	0.0%
F20	SELEC	<b>FIVE BUILDING DEMOLITION</b>				
	F2010	Building Elements Demolition	\$302,037			
	F2020	Hazardous Components Abatement	\$o	\$302,037	\$8.55	6.2%
ΤΟΤ	AL DIRE	CT COST (Trade Costs)		\$4.870.438	\$137.03	100.0%



ility Estim	ate					GFA	35,310
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
MAN OPT	TION 3.0						
GROSS	FLOOR AREA CALCULATION						
	Light Dependion				10,000		
	Medium Building Renovation				12,339 22,971		
						-	
	TOTAL GROSS FLOOR AREA (GFA)				35,310	sf	
A10	FOUNDATIONS						
A.c.10							
AIOIO	New footing for shearwall	100	lf	200.00	20,000		
	SUBTOTAL	100	п	300.00	30,000	30,000	
A1020	SPECIAL FOUNDATIONS						
	No work in this section						
	SUBTOTAL						
A1030	LOWEST FLOOR CONSTRUCTION						
	Sawcut slab for new footings	248	lf	15.00	3,720		
	Remove slab for new footings	600	sf	10.00	6,000		
	Patch slab at new footings	600	$\mathbf{sf}$	20.00	12,000		
	Cutting and patching	14,500	$\mathbf{sf}$	4.00	58,000		
	Equipment pads	1	ls	5,000.00	5,000		
	SUBTOTAL					84,720	
	TOTAL - FOUNDATIONS						\$114,720
<b>B10</b>	SUPERSTRUCTURE						
DIO	SCIERSTRUCTURE						
B1010	FLOOR CONSTRUCTION						
	Seismic clips to masonry walls	56,341	gsf	5.00	281,705		
	Cut and patch upper floor for new shear wall	8	loc	2,501.00	20,008		
	New shear walls, 8" CMU	4,200	sf	30.00	126,000		
	SUBIOTAL					427,713	
B1020	ROOF CONSTRUCTION						
	No work in this section						
	SUBTOTAL					-	
	TOTAL - SUPERSTRUCTURE						\$427,713
Baa	EVTEDIOD CLOSUDE						
D20	EATERIOR CLUSURE						
B2010	EXTERIOR WALLS						
	No work in this section						
	SUBTOTAL					-	
B2020	WINDOWS/CURTAINWALL						
	New CW at vestibule	116	sf	125.00	14,500		
	SUBTOTAL					14,500	

Canton School Projects Feasibility 12.11.18



lity Estim	ate					GFA	35,310
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
IAN OPT	FION 3.0	_					
B2030	EXTERIOR DOORS						
	New entry doors	2	$\mathbf{pr}$	9,000.00	18,000		
	SUBTOTAL					18,000	
							<b>.</b>
	TOTAL - EXTERIOR CLOSURE						\$32,500
B30	ROOFING	]					
R2010	ROOFCOVERINGS						
03010	No work in this section						
	SUBTOTAL					-	
B3020	<b>ROOF OPENINGS</b>						
-00-0	No work in this section						
	SUBTOTAL					-	
	TOTAL - ROOFING						
С10	INTERIOR CONSTRUCTION	]					
C1010	PARTITIONS						
	Light renovation - minor patching	12,339	gsf	4.00	49,356		
	Medium renovation	22,971	gsf	12.00	275,652		
	SUBTOTAL					325,008	
C1020	INTERIOR DOORS						
	Light renovation - new hardware	12,339	gsf	2.00	24,678		
	Medium renovation - new doors/frames/hardware	22,971	gsf	6.00	137,826		
	Overall building - new hardware	21,031	gsf	2.00	42,062		
	SUBTOTAL					204,566	
C1030	SPECIALTIES / MILLWORK						
	Light renovation				NIC		
	Medium renovation						
	Toilet Partitions and accessories	22,971	gsf	0.80	18,377		
	Miscellaneous metals throughout	22,971	gsf	1.00	22,971		
	Rough blocking	22,971	gsf	0.50	11,486		
	Miscellaneous sealants throughout building	22,971	gsf	1.50	34,457		
	Code compliant signage	22,971	gsf	0.25	5,743		
	General Building		-				
	Lockers - paint existing	56,341	gsf	0.30	16,902		
	SUBTOTAL					109,936	
	TOTAL - INTERIOR CONSTRUCTION						\$639,510
		-					
C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
	Code upgrades to existing stairs	8	flts	7,500.00	See ADA Upgrad	es	

-

SUBTOTAL



lity Estim	ate					GFA	35,
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
IAN OP	FION 3.0		II.				
C2020	STAIR FINISHES SUBTOTAL					-	
	TOTAL - STAIRCASES						
C30	INTERIOR FINISHES	1					
C3010	WALL FINISHES	19 990	act	2.00	24 678		
	Medium renovation	22,009	g51 gsf	2.00	160 707		
	SUBTOTAL	22,9/1	831	/.00	100,/9/	185 475	
	SUBIOTAL					105,4/5	
C3020	FLOOR FINISHES		<i>c</i>				
	Light renovation	12,339	gst	8.00	98,712		
	Medium renovation	22,971	gst	8.00	183,768		
	Floor prep SUBTOTAL	35,310	st	1.50	52,965	335,445	
Canan	CEILING EINISHES						
03030	Light renovation	12,339	gsf	7.00	86,373		
	Medium renovation	22,971	gsf	7.00	160,797		
	General building - remove and replace for fire protection installation	21,031	sf	2.00	42,062		
	SUBTOTAL					289,232	
	TOTAL - INTERIOR FINISHES						\$810,
D10	CONVEYING SYSTEMS	1					
	No work in this section	-					
	SUBTOTAL					-	
	TOTAL - CONVEYING SYSTEMS						
D20	PLUMBING	]					
D20	PLUMBING, GENERALLY				ЕТР		
	Medium Renovation - new plumbing - bathrooms	99 0 <del>7</del> 1	act	16.00	267 E26		
	SUBTOTAL	22,9/1	gsi	10.00	307,530	367,536	
	TOTAL - PLUMBING						\$367,
D30	HVAC	]					
D30	HVAC, GENERALLY	_			DUD		
	Light renovation				ETR		

Medium renovation - complete HVAC system

803,985

11-Dec-18

SUBTOTAL

22,971

gsf

35.00

803,985



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bility Estim	ate					GFA	35,310
				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DMAN OP I	110N 3.0						
	TOTAL - HVAC						\$803,985
D40	FIRE PROTECTION						
540							
D40	FIRE PROTECTION, GENERALLY						
	New water line	1	ls	30,000.00	30,000		
	Fire pump	1	IS cof	75,000.00	75,000		
	SUBTOTAL	50,341	gsi	7.00	394,387	400.387	
	TOTAL - FIRE PROTECTION						\$499,387
D50	ELECTRICAL						
D5010	ELECTRICAL SYSTEMS				ETD		
	Madium renovation	00.051	act	20.00	680 100		
	SURTOTAL	22,9/1	gsi	30.00	089,130	680 120	
	SUBICIAL					009,130	
r							<b>¢(0</b> ,,,,,,,, .
	IOTAL - ELECTRICAL						\$689,130
E10	EQUIPMENT						
E10	EOUIPMENT. GENERALLY						
	No work in this section						
	SUBTOTAL					-	
	TOTAL - EQUIPMENT						
E20	FURNISHINGS						
E2010	FIXED FURNISHINGS						
	CASEWORK						
	Light renovation				ETR		
	Medium renovation	22,971	gsf	8.00	183,768		
	SUBTOTAL					183,768	
Facao	MOVADI E EUDNICHINGO						
E2020	All movable furnishings to be provided and installed						
	by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						\$183,768
L							
Fie	SPECIAL CONSTRUCTION						
F10	SI ECIAL CONSTRUCTION						
F10	SPECIAL CONSTRUCTION						
	SUBTOTAL					-	



# Canton Schools Design Options

Canton, MA

oility Estim	ate					GFA	
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	тот
MAN OP	ГІОN 3.0	1	1 1				
	TOTAL - SPECIAL CONSTRUCTION						
F20	SELECTIVE BUILDING DEMOLITION	]					
F2010	BUILDING ELEMENTS DEMOLITION						
	Minor renovation - flooring and ceilings	12,339	gsf	3.00	37,017		
	Medium renovation - finishes, partitions, MEP	22,971	gst	10.00	229,710		
	Temporary enclosures/protection	35,310	sf	1.00	35,310		
	SUBTOTAL					302,037	
F2020	HAZARDOUS COMPONENTS ABATEMENT						
	See summary						
	SUBTOTAL						
TO	TAL SELECTIVE BUILDING DEMOLITION						\$0


Canton Schools Design Options Canton, MA

Feasibility Estimate

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
ROD	IAN ACCESSIBILITY UPGRADES		I				
	ITEM 1						
			,				
	New 30tt long exterior ramp	1	ls	30,000.00	30,000		
	New stairs	1	ls	10,000.00	10,000		
	New ADA lift	1	ls	45,000.00	45,000		
	Marku	ps <b>38%</b>			32,300		
	SUBTOTAL					117,300	
	ITEM 2						
	New sloped walks	1	ls	15,000.00	15,000		
	Raise grades	1	ls	10,000.00	10,000		
	New exit pad	1	ls	5,000.00	5,000		
	Marku	ps <b>38%</b>			11,400		
	SUBTOTAL					41,400	
	ITEM 3						
	Recurface ramps	200	ef	20.00	6 000		
	Morlay		51	20.00	0,000		
	CLIDTOTAL	ps <b>30</b> %			2,280	8 9 9 9	
	SUBIOTAL					8,280	
	ITEM 4						
			16				
	Remove and replace guardralis	250	lf 14	300.00	75,000		
	Remove and replace handrails	250	lf	110.00	27,500		
	Marku	ps <b>38%</b>			38,950		
	SUBTOTAL					141,450	
	ттем -						
			-6				
	flooring tread/riser system	1,500	SI	25.00	37,500		
	Marku	ps <b>38%</b>			14,250		
	SUBTOTAL					51,750	
	ITEM 6						
	Remove and replace guardrails		lf	300.00	See Item 4		
	Remove and replace handrails		lf	110.00	See Item 4		
	Marku	ns <b>98%</b>		110100	-		
	SUBTOTAL	ps <b>30</b> %				_	
	SUBTOTAL						
	ITEM 7						
	Remove and replace door hardware with lover type	90	çot	600.00	19.000		
	hardware	20	SCL	000.00	12,000		
	Markı	DS <b>28%</b>			4.560		
	SUBTOTAL	. 05%			-1000	16.560	
						- 70 - 0	



## Canton Schools Design Options Canton, MA

## Feasibility Estimate

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
RODMAN ACCESSIBILITY UPGRADES							
	ттем с						
	Remove and replace bathroom thresholds with new ceramic tile	60	sf	50.00	3,000		
	Markups	38%			1,140		
	SUBTOTAL					4,140	

TOTAL - ADA UPGRADES

\$380,880

Can	ton Schools- Feasibility Study			
Lt. P	eter M Hansen Elementary School - V	Vest	Task 2, Opt	tion 1.a.i
Dece	mber 11, 2018 Overall Building	I GSF	6,050	
Estimat	ed Project Budget Construction Cost B	uilding \$/SF	\$333	
			Clssrms +/- 1000SF	
CONST	RUCTION			Notes:
1	Construction Cost including Site work (Trade Costs)		\$1,457,500	
1a	Classrooms / Corridor (5,600 SF @ \$200/SF)		\$1,120,000	included in Line 1 above
1b	Connector ( <b>450</b> SF @ \$300/SF)		\$135,000	included in Line 1 above
1c	Secondary Ramp / Stair (450 SF @ \$150/SF)		\$82,500	included in Line 1 above
1d	Sitework		\$120,000	included in Line 1 above
2	Escalation		<u>\$43,725</u>	3% of item 1
3		Sub Total	\$1,501,225	Items 1+2
4	D&P Contingency @ 15%	Sub Total	\$225,184	15% of item 3
5	Danda	SUD TOLA	\$1,726,409	1 25% of itom 5
7	Bollus		\$21,580	1.25% of item 5
8	Overhead & Profit		\$25,690	1.5% of item 5
0	General Requirements/General Conditions		\$172.641	10% of item 5
10	Construction Subtotal		\$2 015 582	10% 01 1211 3
			<i><i><i></i></i></i>	
PROFE	SIONAL SERVICES			
11	Architect/Engineering Fees		\$201,558	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5%)		\$70,545	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight (Industrial Hygienis	t)	\$0	N/A
14	Information Technology Procurement (Loose) (by School Dis	trict)	\$10,000	Allowance
15	FF&E Procurement (Loose)		\$10,000	Allowance
16	Traffic Study		\$0	N/A
17	Geotechnical Engineering (monitoring)		\$10,000	Allowance
18	GeoEnvironmental Engineering		\$10,000	Allowance
19	Survey/Wetlands		\$10,000	Allowance
20	Permitting		\$20,000	Allowance
21	Professional Services Subtotal		\$342,104	
OTUED				
OTHER	SUFI CUSIS		¢ 40,000	All
22	Furnishings, Fixtures and Equipment (allowance)		\$40,000	Allowance
23			\$20,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$5,000	Allowance
20	Property Title Review (allowance)		\$U	Allowance
27			\$5,000	Allowance
28			\$5,000	Allowance
29	Adverticing (allowance)		\$2,500	Allowance
30	Auverusing (dilowdrice)		\$500	Allowance
31			\$5,000	Anowance
32	Other Seft Cests Subtetal		\$2,500	
- 33			\$95,500	
CONT	NGENCY		I	
3/	Owner Construction Contingency (7.5%)		\$151 169	
35	Owner Discretionary Contingency (2.5%)		\$50,390	
36	Contingency Subtotal		\$201.558	
			, <b></b>	
37	Total Project Cost		\$2,654,744	
	Note: All costs are estimated			

Can	ton Schools- Feasibility	Study		
Lt. P	eter M Hansen Elementar	y School - East	Task 2, Opti	on 1.a.ii
Dece	ember 11, 2018 a	Overall Building GSF	6,050	
Estimat	ed Project Budget (	Construction Cost Building \$/SF	\$330	
			Clssrms +/- 1000SF	
CONST	RUCTION			Notes:
1	Construction Cost including Site work (Tra	de Costs)	\$1,442,500	
1a	Classrooms / Corridor (5,600 SF @ \$200/SF)		\$1,120,000	included in Line 1 above
1b	Connector ( <b>450</b> SF @ \$300/SF)		\$135,000	included in Line 1 above
1c	Secondary Ramp / Stair (450 SF @ \$150/SF)		\$67,500	included in Line 1 above
1d	Sitework		\$120,000	included in Line 1 above
2	Escalation		<u>\$43,275</u>	3% of item 1
3	DRD Continent of 15%	Sub Total	\$1,485,775	Items 1+2
4	D&P Contingency @ 15%	Sub Total	\$222,866	15% of item 3
5	Ponde	300 10(a)	\$1,708,041	1 2E% of itom E
7	Insurance		\$21,556	1.25% of item 5
8	Overhead & Profit		\$68 346	4% of item 5
9	General Requirements/General Condition	s	\$170 864	10% of item 5
10	Construction Subtotal		\$1.994.839	
			1 / /	
PROFES	SSIONAL SERVICES		1	
11	Architect/Engineering Fees		\$199,484	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5%	)	\$69,819	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight (	Industrial Hygienist)	\$0	N/A
14	Information Technology Procurement (Log	ose) (by School District)	\$10,000	Allowance
15	FF&E Procurement (Loose)		\$10,000	Allowance
16	Traffic Study		\$0	N/A
17	Geotechnical Engineering (monitoring)		\$10,000	Allowance
18	GeoEnvironmental Engineering		\$10,000	Allowance
19	Survey/Wetlands		\$10,000	Allowance
20	Permitting		\$20,000	Allowance
21	Professional Services Subtotal		\$339,303	
OTHER	SOFT COSTS			
22	Europhyse Extures and Equipment (allow	wance)	\$40,000	Allowance
23	Loose Technology (allowance)	unce)	\$20,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$5.000	Allowance
26	Property Title Review (allowance)		\$0	Allowance
27	Utility Back Charges (allowance)		\$5,000	Allowance
28	Legal (allowance)		\$5,000	Allowance
29	Printing (allowance)		\$2,500	Allowance
30	Advertising (allowance)		\$500	Allowance
31	Cost Estimating		\$5,000	Allowance
32	Miscellaneous Expenses		\$2,500	
33	Other Soft Costs Subtotal		\$95,500	
CONTIN	NGENCY			
34	Owner Construction Contingency (7.5%)		\$149,613	
35	Owner Discretionary Contingency (2.5%)		\$49,871	
36	Contingency Subtotal		\$199,484	
	Tabal Drainat Cart	60.000.400		
37			\$2,629,126	
	Note: All costs are estimated			

Cant	ton Schools- Feasibili	ty Study		
John	F. Kennedy Elementary	y School - North	Task 2, Opti	on 1b
Dece	ember 11, 2018	Overall Building GSF	6,120	
Estimate	ed Project Budget	Construction Cost Building \$/SF	\$329	
			Clssrms +/- 1000SF	
CONST	RUCTION			Notes:
1	Construction Cost including Site work	(Trade Costs)	\$1,454,000	
1a	Classrooms / Corridor (5,600 SF @ \$200/S	SF)	\$1,004,000	included in Line 1 above
1b	Connector ( <b>450</b> SF @ \$300/SF)		\$330,000	included in Line 1 above
1c	Secondary Ramp / Stair (450 SF @ \$150/S	F)	\$0	included in Line 1 above
1d	Sitework		\$120,000	included in Line 1 above
2	Escalation		<u>\$43,620</u>	3% of item 1
3		Sub Total	\$1,497,620	Items 1+2
4	D&P Contingency @ 15%		\$224,643	15% of item 3
5	~ .	Sub Total	\$1,722,263	Items 3+4
6	Bonds		\$21,528	1.25% of item 5
/	Insurance		\$25,834	1.5% of item 5
8	Overnead & Profit	tions	\$08,891	4% OF ILEFT 5
10	Construction Subtotal	tions	\$172,220	10% 01 11211 5
10			72,010,742	
PROFES	SIONAL SERVICES			
11	Architect/Engineering Fees		\$201,074	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3	.5%)	\$70,376	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversig	, ht (Industrial Hygienist)	\$0	N/A
14	Information Technology Procurement	(Loose) (by School District)	\$10,000	Allowance
15	FF&E Procurement (Loose)		\$10,000	Allowance
16	Traffic Study		\$0	N/A
17	Geotechnical Engineering (monitoring	)	\$10,000	Allowance
18	GeoEnvironmental Engineering		\$10,000	Allowance
19	Survey/Wetlands		\$10,000	Allowance
20	Permitting		\$20,000	Allowance
21	Professional Services Subtotal		\$341,450	
OTUER				
OTHER	SUFI CUSIS		¢ 40,000	
22	Furnishings, Fixtures and Equipment (	anowance)	\$40,000	Allowance
25	Construction Testing (allowance)		\$20,000	Allowance
24	Moving Costs (by School)		\$10,000	Allowance
25	Dreparty Title Paviaw (allowance)		\$5,000	Allowance
20	Litility Back Charges (allowance)		30 \$5.000	Allowance
27			\$5,000	Allowance
20	Printing (allowance)		\$3,000	Allowance
30	Advertising (allowance)		\$2,500	Allowance
31	Cost Estimating		\$5,000	Allowance
32	Miscellaneous Expenses		\$2,500	Allowance
32	Other Soft Costs Subtotal		\$95,500	
			\$35,500	
CONTIN	IGENCY			
34	Owner Construction Contingency (7.5	%)	\$150,806	
35	Owner Discretionary Contingency (2.5	%)	\$50,269	
36	Contingency Subtotal		\$201,074	
37	Total Project Cost		\$2,648,766	
	Note: All costs are estimated			

Can	ton Schools- Feasibility	Study		
Dea	n S. Luce Elementary So	chool	Task 2, Op	tion 1c
Dece	mber 11, 2018	Overall Building GSF	5,470	
Estimat	ed Project Budget	Construction Cost Building \$/SF	\$359	
			Clssrms +/- 1000SF	
CONST	RUCTION			Notes:
1	Construction Cost including Site work (Tra	ade Costs)	\$1,421,500	
1a	Classrooms / Corridor (5,600 SF @ \$200/SF)		\$1,004,000	included in Line 1 above
1b	Connector (450 SF @ \$300/SF)		\$135,000	included in Line 1 above
1c	Secondary Ramp / Stair (450 SF @ \$150/SF)		\$82,500	included in Line 1 above
1d	Sitework		\$200,000	included in Line 1 above
2	Escalation		<u>\$42,645</u>	3% of item 1
3		Sub Total	\$1,464,145	Items 1+2
4	D&P Contingency @ 15%		<u>\$219,622</u>	15% of item 3
5		Sub Total	\$1,683,767	Items 3+4
6	Bonds		\$21,047	1.25% of item 5
7	Insurance		\$25,257	1.5% of item 5
8	Overhead & Profit		\$67,351	4% of item 5
9	General Requirements/General Condition	15	\$168,377	10% of item 5
10	Construction Subtotal		\$1,965,798	
PROFES			4100.500	
11	Architect/Engineering Fees	~	\$196,580	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5%		\$68,803	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight		\$0	N/A
14	Information Technology Procurement (Lo	ose) (by School District)	\$10,000	Allowance
15	FF&E Procurement (Loose)		\$10,000	Allowance
10	Control Engineering (menitoring)		ŞU ¢10.000	N/A
17	GeoEnvironmontal Engineering (Monitoring)		\$10,000	Allowance
10	Suprov/Wotlands		\$10,000	Allowance
19	Bormitting		\$10,000	Allowance
20	Professional Services Subtotal		\$20,000	Allowance
	The short of the s		,333,303	
OTHER	SOFT COSTS			
22	Eurnishings Eixtures and Equipment (allo	wance)	\$40,000	Allowance
23	Loose Technology (allowance)	Walleey	\$20,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$5,000	Allowance
25	Property Title Review (allowance)		\$3,000	Allowance
20	Utility Back Charges (allowance)		ېن د ۵۵۵	Allowance
27	Legal (allowance)		\$5,000 \$5,000	Allowance
20	Printing (allowance)		\$3,000 \$3,500	Allowance
29	Advertising (allowance)		\$2,300 \$500	Allowance
30	Cost Estimating		00.5 مەرى خ	Allowance
27	Miscellaneous Exnenses		\$3,000	
32	Other Soft Costs Subtotal		\$2,300	
	other soft costs subtotal		393,300	
CONT	IGENCY		<u> </u>	
34	Owner Construction Contingency (7.5%)		\$147 435	
35	Owner Discretionary Contingency (2.5%)		\$49.145	
36	Contingency Subtotal		\$196.580	
			,, <b></b>	
37	Total Project Cost	\$2,593,260		
	Note: All costs are estimated			
-				

Ca	nton Schools- Feasibili	ty Study		
Ro	dman Building (Optior	n 3.0)	Task 3	
De	cember 11. 2018	Overall Buildina GSF	35.310	
Estin	nated Project Budget	Construction Cost Building \$/SF	\$212	
CON	STRUCTION			Notes:
1	Construction Cost including Site work (Tr	ade Costs)	\$5,411,238	
1a	Renovation to Existing School		\$3,891,618	included in Line 1 above
1b	Hazardous Material Removal		\$10,000	included in Line 1 above
1c	Site Work-Relocate Playground		\$150,000	included in Line 1 above
1d	Sprinkler System		\$499,387	Included if Item 1a+b+c exceeds \$2,378838*
1e	Accessibility Upgrades		\$380,800	Included if Item 1a+b+c exceeds \$2,162580**
11	Structural upgrades		\$4/9,433	Included if work area exceeds 50%
2	Escalation	Sub Tota	<u>\$102,337</u>	3% OF ILETT 1
	D&P Contingency @ 15%	305 1014	\$3,575,575	15% of item 3
5	Dar contingency @ 15%	Sub Tota	\$6,409,611	Items 3+4
6	Bonds	545 1514	\$80,120	1 25% of item 5
7	Insurance		\$96,144	1.5% of item 5
8	Overhead & Profit		\$256,384	4% of item 5
9	General Requirements/General Conditio	ns	\$640,961	10% of item 5
10	Construction Subtotal		\$7,483,221	
PRO	FESSIONAL SERVICES			
11	Architect/Engineering Fees		\$748,322	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5)	%)	\$261,913	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight	(Industrial Hygienist)	\$10,000	Allowance
14	Information Technology Procurement (L	oose) (by School District)	\$80,000	Allowance
15	FF&E Procurement (Loose)		\$80,000	Allowance
16	Traffic Study		\$0	N/A
1/	Geotechnical Engineering (monitoring)		\$10,000	
18			\$10,000	
20	Permitting		30 \$10,000	N/A Allowance
20	Professional Services Subtotal		\$10,000	Allowance
			+_,,	
ОТН	ER SOFT COSTS			
22	Furnishings, Fixtures and Equipment (allo	owance)	\$150,000	Allowance
23	Loose Technology (allowance)		\$100,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$60,000	By Owner
26	Property Title Review (allowance)		\$0	Allowance
27	Utility Back Charges (allowance)		\$5,000	Allowance
28	Legal (allowance)		\$5,000	Allowance
29	Printing (allowance)		\$2,500	Allowance
30	Advertising (allowance)		\$500	Allowance
31	Cost Estimating		\$5,000	Allowance
32	Miscellaneous Expenses		\$2,500	
33	Other Soft Costs Subtotal		\$340,500	
CON	TINGENCY		4	
34	Owner Construction Contingency (7.5%)		\$561,242	
35	Owner Discretionary Contingency (2.5%)		\$187,081	
36			\$748,322	
27	Total Project Cost		\$0 702 270	
5/			<i>35,102,218</i>	
Note	All costs are estimated			
*	Sprinkler System		\$499 387	1
**	Accessibility Upgrades		\$380,800	
L			<i>4300,000</i>	

Ca	nton Schools- Feasibili	ty Study		
Ro	dman Building (Option	n 2.0)	Task 2, Op	tion 3.b
De	cember 11, 2018	Overall Building GSF	17,223	
Estin	nated Project Budaet	Construction Cost Building S/SF	\$250	
		5	,	
CON	STRUCTION			Notes:
1	Construction Cost including Site work (Tr	ade Costs)	\$3.112.759	
1a	Renovation to Existing School	· · · · · · · · · · · · · · · · · · ·	\$2,072,572	included in Line 1 above
1b	Hazardous Material Removal		\$10,000	included in Line 1 above
1c	Site Work-Relocate Playground		\$150,000	included in Line 1 above
1d	Sprinkler System		\$499,387	Included if Item 1a+b+c exceeds \$2,378838*
1e	Accessibility Upgrades		\$380,800	Included if Item 1a+b+c exceeds \$2,162580**
1f	Structural upgrades		\$0	Included if work area exceeds 50%
2	Escalation		<u>\$93,383</u>	3% of item 1
3	DRD Continents @ 15%	Sub Total	\$3,206,142	Items 1+2
4	D&P Contingency @ 15%	Sub Total	\$480,921	15% of item 3
5	Bonds	Sub Total	\$3,087,003	1 25% of itom 5
7			\$55,306	1.25% of item 5
8	Overhead & Profit		\$147 483	4% of item 5
9	General Requirements/General Condition	ns	\$368.706	10% of item 5
10	Construction Subtotal		\$4,304,646	
PRO	FESSIONAL SERVICES			
11	Architect/Engineering Fees		\$430,465	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5%	6)	\$150,663	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight	(Industrial Hygienist)	\$10,000	Allowance
14	Information Technology Procurement (Lo	oose) (by School District)	\$40,000	Allowance
15	FF&E Procurement (Loose)		\$40,000	Allowance
16	Iraffic Study		\$0 ¢10.000	N/A
1/	Geotechnical Engineering (monitoring)		\$10,000	
10			\$10,000	
20	Permitting		\$10,000	Allowance
21	Professional Services Subtotal		\$701.127	
ОТН	ER SOFT COSTS			
22	Furnishings, Fixtures and Equipment (allo	owance)	\$100,000	Allowance
23	Loose Technology (allowance)		\$50,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$30,000	By Owner
26	Property Title Review (allowance)		\$0	Allowance
27	Utility Back Charges (allowance)		\$5,000	Allowance
28	Legal (allowance)		\$5,000	Allowance
29	Printing (allowance)		\$2,500	Allowance
30	Advertising (allowance)		\$500	Allowance
31	Cost Estimating		\$5,000	Allowance
32	Miscellaneous Expenses		\$2,500	
33	Other Soft Costs Subtotal		\$210,500	
CON	TINCENCY			
	Owner Construction Contingoncy (7.5%)		¢222.949	
34	Owner Discretionary Contingency (7.5%)		\$322,848 \$107.616	
36	Contingency Subtotal		\$430.465	
50	Bene, entre di		÷-30,405	
37	Total Project Cost		\$5,646,738	
			<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	
Note	All costs are estimated			
*	Sprinkler System		\$499,387	
**	Accessibility Upgrades		\$380,800	

Canton Schools- Feasibility Study				
Rod	man Building (Option 1.0)		Task 2, Opt	tion 3.a
Dece	mber 11, 2018 Overall Bu	ilding GSF	15,810	
Estimate	ed Project Budget Construction	Cost Building \$/SF	\$251	
CONST	RUCTION			Notes:
1	Construction Cost including Site work (Trade Costs)		\$2,866,342	
1a	Renovation to Existing School		\$1,826,155	included in Line 1 above
1b	Hazardous Material Removal		\$10,000	included in Line 1 above
1c	Site Work-Relocate Playground		\$150,000	included in Line 1 above
1d	Sprinkler System		\$499,387	Included if Item 1a+b+c exceeds \$2,378838*
1e	Accessibility Upgrades		\$380,800	Included if Item 1a+b+c exceeds \$2,162580**
11	Structural upgrades		\$U 685.000	Included If Work area exceeds 50%
2	Escalation	Sub Total	\$85,990 \$2,052,222	3% of item 1
3	D&D Contingonar @ 15%	Sub Total	\$2,952,552	1EP/ of itom 2
4	Dar contingency @ 15%	Sub Total	\$2 205 192	Itoms 2+4
6	Bonds	500 1000	\$3,393,182	1 25% of item 5
7			\$50,928	1.5% of item 5
8	Overhead & Profit		\$135,807	4% of item 5
9	General Requirements/General Conditions		\$339,518	10% of item 5
10	Construction Subtotal		\$3.963.875	
			1-,,	
PROFES	SIONAL SERVICES		1	
11	Architect/Engineering Fees		\$396,388	10% of item 10 -estimated
12	Owner's Project Manager-OPM (est. 3.5%)		\$138,736	3.5% of item 10 - estimated
13	Hazardous Abatement Design/Oversight (Industrial Hy	/gienist)	\$10,000	Allowance
14	Information Technology Procurement (Loose) (by Sch	ool District)	\$40,000	Allowance
15	FF&E Procurement (Loose)		\$40,000	Allowance
16	Traffic Study		\$0	N/A
17	Geotechnical Engineering (monitoring)		\$10,000	interior footings
18	GeoEnvironmental Engineering		\$10,000	Allowance
19	Survey/Wetlands		\$0	N/A
20	Permitting		\$10,000	Allowance
21	Professional Services Subtotal		\$655,123	
071150				
OTHER			400.000	
22	Furnishings, Fixtures and Equipment (allowance)		\$80,000	Allowance
23	Loose Technology (allowance)		\$45,000	Allowance
24	Construction Testing (allowance)		\$10,000	Allowance
25	Moving Costs (by School)		\$30,000	By Owner
26	Property litie Review (allowance)		Ş0	Allowance
27	Utility Back Charges (allowance)		\$5,000	Allowance
28			\$5,000	Allowance
29	Printing (allowance)		\$2,500	Allowance
30	Advertising (allowance)		\$500	Allowance
31			\$5,000	Allowance
32	Other Ceft Cests Cubestal		\$2,500	Allowance
	Other Soft Costs Subtotal		\$185,500	
CONTIN	IGENCY			
3/	Owner Construction Contingency (7.5%)		\$297 291	
35	Owner Discretionary Contingency (2.5%)		\$99,097	
36	Contingency Subtotal		\$396.388	
			,.	
37	Total Project Cost		\$5,200,886	
- 37			ç;,_00,000	
<u> </u>				
Notes:	All costs are estimated			
*	Sprinkler System		\$499.387	
**	Accessibility Upgrades		\$380,800	
L			,	

	А	В	C	D	E	F	G	К	L	М	N	0	Р	
1	Canto	on Pub	lic Schools											
2	<b>FY20</b>	Budg	et Request											
3			•											
4						FY20			FY20		FY20			
5					(Supe	rintendent's Budget F	lequest)		("Best Case Budget")		(Super	rintendent's Budget Re	equest)	
6						(All Requests)								
7				Line #*	FTE	\$	%	FTE	\$	%	FTE	\$	%	
8														
9	Prior Yea	ar Operati	ng Budget	(Line 8)		\$42,396,405			\$42,396,405			\$42,396,405		
10														
13	Contract	ual Salary	Increases	(Line 24)	_	\$1,414,954	3.34%		\$1,414,954	3.34%		\$1,414,954	3.34%	
14	Priority -	l evel 1 -	Sub-Total	(Line 152)	20.11	\$1 606 262	3 79%	20.11	\$1,606,262	3,79%	10.01	\$811.808	1.91%	
18	i nonty	Lotor		(Line tol)	20.11	+1,000,202	0.1.0.10		<b>*</b> .,					
19	Priority -	Level 2 -	Sub-Total	(Line 265)	0.00	\$474,425	1.12%	0.00	\$462,626	1.09%	0.00	\$180,651	0.43%	
20														
21	Sub-Tot	al Budge	t Increase Requested	I (Above Line 13 + 17 + 19)	20.11	\$3,495,641	8.25%	20.11	\$3,483,842	8.22%	10.01	\$2,407,413	5.68%	
22														
23	MINU	S Projecte	ed Staff Reductions	(Line 286)	(1.31)	(\$98,417)	-0.23%	(1.31)	(\$98,417)	-0.23%	(1.31)	(\$98,417)	-0.23%	
26										-	0 10	AC 000 000	E 450/	
27	Total Bu	idget Inc	rease	(Above Line 21 - Line 23)	18.80	\$3,397,224	8.01%	18.80	\$3,385,425	7.99%	8.70	\$2,308,996	5.45%	
28	Total B	Idget Reg	luest	(Above Line 9 + Line 27)		\$45,793,629	8.01%		\$45,781,830	7.99%		\$44,705,401	5.45%	

	Α	С	D	E	F	G	Н	I	J	К
1	Canton Public Schools									
2	FY20 Budget Request	FY	20		FY	20		FY20		
3		(All Requests)			("Best Case	e Budget'')		(Superintendent's Budget Request		
5										
6										
7										
8	Prior Year Operating Budget	\$42,396,405			\$42,396,405			\$42,396,405		
9										
13										
14	Sub Total	\$42,396,405	0.00%		\$42,396,405	0.00%		\$42,396,405	0.00%	
15										
16 17	A. Contract Obligations									
19	Contractual Obligations	\$1,414,954			\$1,414,954			\$1,414,954		
23										
24	Total Contract Obligations	\$1,414,954	3.34%		\$1,414,954	3.34%		\$1,414,954	3.34%	
25										
26	Subtotal + Contractual Obligations	\$43,811,359			\$43,811,359			\$43,811,359		
27										
28	B. Staff Reductions									
29	FY20									
30										
31	1.0 FTE JFK 5TH Grade Teacher	(\$71,418)		(1.00)	(\$71,418)		(1.00)	(\$71,418)		(1.00)
32	0.31 FTE Speech Language Pathologist	(\$26,999)		(0.31)	(\$26,999)		(0.31)	(\$26,999)		(0.31)
33										
36	Subtotal - Staff Reduction	(\$98,417)	-0.23%	(1.31)	(\$98,417)	-0.23%	(1.31)	(\$98,417)	-0.23%	(1.31)
37		N/ N/		art a C	- 74V 122 34A			200 60 00		100

	Α	С	D E	F	G H	I	J K
1	Canton Public Schools						
2	FY20 Budget Request	FY2	0	FY2	0	FY20	
3		(All Requ	ests)	("Best Case Budget")		(Superintendent's Budget Request	
<u> </u>						Delevit	aval d
38	<u>  G. Priority - Level I</u>		· ETC		ETE	Priority - L	<u>evel 1</u> CTE
39	Paguaste - Maintananco of Auglity - ETE's		<u>r i E</u>		<u>F!E</u>		<u>FIE</u>
	IVERNESIS - manifeligine of Anglich - LIES	·····					· · · ·
H#1	1.0 FTF District Technology Specialist	\$77.500	1.00	\$77.500	1 00	\$77.500	1 00
42	0.2 FTE CHS Technology Teacher	\$14 284	0.20	\$14 284	0.20	\$14 284	0.20
$\frac{+3}{1}$	0.21 FTE DW Out of District Coordinator	¢17,207	0.20	¢14,204	0.20	¢26.000	0.20
⊢₄		\$ <b>₹0'</b> 888	0.31	\$20,999 \$20,999	0.31		<u></u>
45	1.0 FTE PK-5 Content Specialist (Year 1 of 2)	\$80,000	1.00	\$80,000	1.00		
46	1.0 FTE District Data Specialist	\$75,000	1.00	\$75,000	1.00	•	i
47		\$150,000	1.00	\$150,000	1.00	<u></u>	
56	1.0 FIE DVV Adapted Physical Education Teacher (Including Preschool)	\$71,418	1.00	\$71,418	1.00		
57	1.0 FTE DVV DISTRICT Resource Nurse	\$71,418	1.00	\$/1,418	1.00	<u> </u>	
58	1.0 FTE CHS Vocational Leacher	\$/1,418	1.00	\$/1,418	1.00	\$71,418	1.00
59	1.0 FTE CHS Learning Center Teacher	\$/1,418	1.00	\$/1,418	1.00	#05 000	4.00
60	1.0 FTE CHS Learning Center Ed. Asst.	\$0	0.00	\$0	0.00	\$25,000	1.00
61	U.Z.FTE CHS Visual Arts Teacher (Coordinator class reduction)	\$14,284	0.20	\$14,284	0.20	· · · · · ·	· · · ·
62	10.2 FIE CHS Performing Arts Teacher (Coordinator class reduction)	\$14,284	<u> </u>	\$14,284	0.20	An ( 10	
63	U.1 FTE CHS Performing Arts Teacher	\$7,142	0.10	\$7,142	0.10	\$7,142	0.10
64	10.8 FTE CHS French/Spanish Teacher	\$57,134	0.80	\$57,134	0.80	\$14,284	0.20
65	U./ FIE CHS Nurse	\$49,993	0.70	\$49,993	0.70	\$49,993	0.70
66	1.0 FTE DW Speech Language Pathologist	\$71,418	1.00	\$71,418	1.00	\$71,418	1.00
67	1.0 FTE GMS Special Education Teacher	\$71,418	1.00	\$71,418	1.00	\$71,418	1.00
68	1.0 FIE GMS Educational Assistant	\$24,536	1.00	\$24,536	1.00		
69	0.2 FTE GMS World Language Teacher	\$14,284	0.20	\$14,284	0.20		
70	0.2 FTE GMS Visual Arts Teacher	\$14,284	0.20	\$14,284	0.20		
끤	1.0 FTE GMS Wellness Teacher	\$71,418	1.00	\$71,418	1.00	\$71,418	1.00
72	1.0 FTE GMS Guidance Counselor	<u>\$71,418</u>	1.00	\$71,418	1.00	\$71,418	1.00
73	1.0 FIE Hansen Certified Nursing Assistant	\$22,500	1.00	\$22,500	1.00	\$22,500	1.00
74	0.1 FIL Preschool Visual Arts Teacher	\$7,142	0.10	\$7,142	0.10		
75	0.1 FIE Preschool Performing Arts Teacher	\$7,142	0.10	\$7,142	0.10		· ····
76	1.0 FIE Preschool Teacher	\$71,418	1.00	\$71,418	1.00		
17	1.0 FTE Preschool Educational Assistant	\$24,536	1.00	\$24,536	1.00		
78	0.5 FTE Early Childhood Teacher	\$35,709	0.50	\$35,709	0.50	\$35,709	0.50
79	0.5 FTE Preschool Student Services Coordinator	\$35,709	0.50	\$35,709	0.50		
80							
86			· · ·				
87	Requests - Maintenance of Quality FTE's - Sub-Total	\$1,395,224	3.29% 20.11	\$1,395,224	3.29% 20.11	\$630,500	1.49% 10.01

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	Α	С	D	E	F	G	н	I	J	К
1	Canton Public Schools									
2	FY20 Budget Request	FY20			FY	20		FY20		
3		(All Requests)			("Best Case Budget")			(Superintendent's Budget Reques		
5										
88							I			
89	Requests - Maintenance of Quality Supplies and Services							Priority -	Level 1	
90										
91	Bus Contractual Increase	\$35,000			\$35,000			\$35,000		
92										
96	Requests - Maintenance of Quality Supplies and Services - Sub-Total	\$35,000			\$35,000			\$35,000		:
97										
98	MAINTENANCE OF QUALITY - SUB-TOTAL	\$1,430,224	3.37%	20.11	\$1,430,224	3.37%	20.11	\$665,500	1.57%	10.01
99				:						
100	Racusete - Auglity Enhancemente ETE's									
100	requests - Quality Lindardenients Fills	· · · ·								
122	·····			·			•			
134	Requests , Quality Enhancements ETE's , Sub-Total	<u>Ś</u>	0.0%	0.00	\$0	0.0%	0.00	\$0	0.0%	0.00
135		ψυ	0.070	0.00	ψυ	0.070	0.00	ψυ	0.070	
135	Requests - Quality Enhancements Supplies and Services	••••••	· · ·	·				Priority	l evel 1	
137							•	<u></u>		
139	Social Studies Curriculum Resources (Grade 6-8)	\$30,000			\$30,000			\$30.000		•
140	Social Studies Curriculum Materials-K-5	\$50,000		· 1	\$50,000			\$50,000		
141	eveled Literacy Intervention (LLI) - Grade 1-3 (Includes PD)	\$35,038		·	\$35,038		•	\$35,308		
142	Testing Kits-Student Services	\$5,000			\$5,000			\$5,000		
143	Interpreter/Translation Services	\$50,000		• • • •	\$50.000			\$20,000		
144	Independent Reading Texts (English Dept.)	\$6,000			\$6,000		•	\$6,000		
145	· · · · · · · · · · · · · · · · · · ·			·····				····		
146								•. •		
147							• • • • • • •			·
140	Requests - Quality Enhancements Sumplies and Services - Sub Tatal	6176 029	0 4 29/		\$476 A20	0 4 2 9/		\$146 200	0.25%	
148	requests - whatty Lintancements supplies and services - Sub-Total	\$170,038	V.42%		\$170,038	<b>U.42%</b>		\$140,300	0.35%	
150	QUALITY ENHANCEMENTS - SUB-TOTAL	\$176.029	0 4 2%	0.00	\$176.029	0 4 2%	0.00	\$146 209	0 35%	0.00
150	ROALIT ENHANCEMENTO - OUD-TOTAL		<b>V.44</b> /0	0.00	\$170,030	U.44 /0	0.00	\$140,300	0.00 /0	0.00
157	Total - Priority   evel	\$1 606 262	3 79%	20 11	\$1 606 262	3 70%	20.11	\$811 808	1 91%	10.01
153		\$1,000,202	0.10/0	20.11	ψ1,000,202	3.13/0	20.11	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	1.0170	10.01

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	A	C D E	F G H	I) K		
1	Canton Public Schools					
2	FY20 Budget Request	FY20	FY20	FY20		
3		(All Requests)	("Best Case Budget")	(Superintendent's Budget Request)		
154	D. Priority - Level II	<u>FTE</u>	FTE	FTE		
155						
156	CHS					
163 164	Chemical Safety Officer Stipend (Science Dept.)	\$2,500				
169	Laboratory Safety Institute Training (Science Dept.)	\$199				
166	Mastering Biology with E-text (Science Dept.)	\$5,799	\$5,799	\$5,799		
167	Engineering the Future Digital Access (Science Dept.)	\$1,893	\$1,893	\$1,893		
168	Updates to Biotech Curriculum & Materials	\$1,575	\$1,575	\$1,575		
169	Athletic Supplies (Uniforms)	\$15,000	\$15,000	\$10,000		
170	Assistant Spring Track Coach	\$2.142	\$2.142			
171	I Assistant Swim Coach	\$2,142	\$2,142			
172	2 Assistant Field Hockey Coach	\$2,142	\$2,142	\$2,142		
173	Assistant Cross Country Coach	\$2,142	\$2,142	\$2,142		
174	Athletic Equipment Manager	\$3,600	\$3,600			
179	si	\$39,134 0.09% 0.00	\$36,435_0.09%_0.00	\$23,551 0.06% 0.00		
176	G GMS	<b>*</b> / 202	<u> </u>			
180	Dispars Books (lower reading level)	\$1,000	\$1,000	· ··· · · ··· · ···· · ·······		
18:	Science STEM Peseurces	\$20,000		\$15.000 · · ·		
184	Trade books for ELA and Reading	\$20,000	\$6,400	\$15,000		
18/	Genre Reclassification Items-Library	\$1 263	\$1 263	φο,του		
18	s Cultural Diversity Collection-Library	\$1.000	\$1.000			
180	Ongoing books, magazines etcLibrary	\$2,306	\$2,306			
18	7	\$32,969 0.08% 0.00	\$32.969 0.08% 0.00	\$21.400 0.05% 0.00		

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	Α	C D	) <u>E</u>	F	G	н	1	J	К	
1	Canton Public Schools									
2	FY20 Budget Request	FY20	FY	20		FY20				
3		(All Requests)		("Best Cas	("Best Case Budget")			(Superintendent's Budget Request)		
188										
189	<u>Elementary</u>		<u>FTE</u>	E	. :	<u>FTE</u>			FTE	
190 193	······································	\$0 0.0	0% 0.0	0 \$0	0.00%	0.00	\$0	0.00%	0.00	
194										
195	Professional Development				, ,					
198										
199	GMS Curriculum Development Time (summer)	\$19,800		\$15,000						
200	GMS Concurrent and Development Time (school year)	\$12,500		\$12,500	• •••••	•••••			•	
202	GMS Project Based Learning Sustained Support Visits	\$11,000		\$11,000				• • • •	•	
203										
204										
205		\$51,550 0.1	2%	\$46,750	0.11%		\$0	0.00%		
206									••••	
207	Field Study	\$75.000		\$75.000			\$30,000			
209	Software	\$25,000		\$25,000	•· • · · · •	••••	\$25,000			
210	Mental Health Consultant	\$50,000		\$50,000			\$40,000	 		
211		·								
212										
213										
214		\$150,000 0.3	5%	\$150,000	0.35%		\$95,000	0.22%		
223	Visual Arts									
227	Supplies at CHS	\$700		\$700	, 	• • • • •	\$700			
228								-		
229							-			
230			00/	*700	0.009/			0.00%		
231		\$100 0.0	V 70	1 \$700	0.00%		\$700	0.00%		

	Α	С	D	E	F	G	Н	I	J	К	
1	Canton Public Schools										
2	FY20 Budget Request	FY20			FY20			FY20			
3		(All Requests)			("Best Case	e Budget'')		(Superintendent's Budget Request)			
5											
232											
234	Performing Arts	-									
235	Stipends	\$4,300			\$0						
238											
239											
240											
241		\$4,300	0.01%		\$0	0.00%		\$0	0.00%		
246											
247	World Language										
248											
249											
250	Instructional Materials (Spanish/French/German)-CHS	\$151,634			\$151,634			\$40,000			
251	Instructional Materials (French)-GMS	\$44,138			\$44,138						
252		\$195,772	0.46%		\$195,772	0.46%		\$40,000	0.09%		
253											
254											
255	Technology										
262											
263	· ·	\$0	0.00%		\$0	0.00%		\$0	0.00%		
264											
265	Total - Priority - Level II	\$474,425	1.12%	0.00	\$462,626	1.09%	0.00	\$180,651	0.43%	0.00	
266											
267	MASTER PLAN IMPLEMENTATION										
268											
280	Sub-Total - MASTER PLAN IMPLEMENTATION										
281						_					

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	Α	С	D	E	F	G	н	I	J	K	
1	Canton Public Schools										
2	FY20 Budget Request	FY20			FY20			FY20			
3		(All Requests)			("Best Case Budget")			(Superintendent's Budget Request)			
282	2 Summary										
283	3										
284	4 Total Contract Obligations	\$1,414,954	3.34%		\$1,414,954	3.34%		\$1,414,954	3.34%		
28	Staff Reductions	(\$08.417)	-0 23%	(1 31)	(\$98 417)	-0 23%	(1 31)	(\$08 /17)	-0 23%	(1 31)	
28	7	(\$50,417)	-0.2370	(1.51)	(\$90,417)	-0.2370	(1.31)	(\$90,417)	-0.2370	(1.51)	
290	o Total - Priority - Level I	\$1,606,262	3.79%	20.11	\$1,606,262	3.79%	20.11	\$811,808	1.91%	10.01	
293	3 4 Total - Priority - Lovel II	\$474.425	4 4 90/	0.00	¢462 626	4 00%	0.00	\$190 654	0 420/	0.00	
292		\$474,423	1.1270	0.00	\$402,020	1.09%	0.00	\$100,051	0.4370	0.00	
290	6 Total Priority - Level I & II	\$2,080,687	4.91%	20.11	\$2,068,888	4.88%	20.11	\$992,459	2.34%	10.01	
299	o Total Budget Increase Requested	\$3,397,224	8.01%	18.80	\$3,385,425	7.99%	18.80	\$2,308,996	5.45%	8.70	
300	(Level 1, 2, Staff Reduction and Contractual Obligations)										
30	1 Proposed Operating Budget Request	\$45,793,629			\$45,781,830			\$44,705,401			
30	2										
30	8										
309	9										