

September 26, 2024:
Meeting Agenda

SCHOOL BUILDING COMMITTEE MEETING AGENDA



Meeting Date: September 26, 2024
Meeting Time: 4:00 PM
Project Name: Tri-County Regional Vocational Technical High School
Project Number: MP20-28
Meeting Purpose: SBC Meeting No. 044
Location: ZOOM
Meeting Link: <https://us06web.zoom.us/j/86355799507?pwd=2RSIToaVdGc840LixaovjQULQiEmU6.1>
Meeting ID: 863 5579 9507
Passcode: 979294
One Tab Mobile: +16469313860,,86355799507#,,,,*979294# US
Prepared By: E. Grijalva

1. Call to Order & Intro
2. Previous Topics & Approval of September 12, 2024, Meeting Minutes
3. Commitments for Approval
4. Massave Grant Restrictions
5. 60% Construction Documents Packet Review & Approval
6. Request for Qualification Approval
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn

**September 12, 2024:
Draft Meeting Minutes for Approval**

SCHOOL BUILDING COMMITTEE MEETING MINUTES



Project: Tri-County Regional Vocational Technical HS
Subject: School Building Committee Meeting No. 43
Location: Remote via ZOOM
Distribution: Attendees, Project File
MSBA Module: 6- Detailed Design

Project No: MP20-28
Meeting Date: 09/12/24
Time: 4:00 PM
Prepared By: E. Grijalva

Present

Brian Mushnick*	SBC Chair
Karen Maguire*	Superintendent
Jonathon Dowse*	SBC Member
Dan Haynes*	School Business Administrator
Michael Procaccini*	SBC Member
Bob Foley*	SBC Member Director of Post Secondary, Con. Adult. Edu.
Dana Walsh*	SBC Member -TCRVTHS Principal
Brendan Bowen*	SBC Member
Trip Elmore	DWMP- Project Director
Mike Cox	DWMP – Project Manager
Elias Grijalva	DWMP- Assistant PM
Rachel Rincon	DMWP= Assistant PM
Vladimir Lyubetsky	DRA- Project Manager
Carl Franceschi	DRA – Principal in Charge
Steve Johnson	Consigli- Sr. Project Manager
Kristy Lyons	Consigli – Sr. Precon Manager
Lt. Donald Maclean	Public

***SBC Voting Member**

Item No.	Description	Action
43.1	<p>Call to order: 4:01PM meeting was called to order by SBC Chair B. Mushnick, 8 of 11 voting members in attendance.</p>	Record
43.2	<p>Previous Topics & Approval of August 15,2024 Meeting Minutes: A motion to approve the <u>August 15,2024</u> previous meeting minutes as submitted was made by J. Dowse and seconded by M. Procaccini.</p> <p>Discussion: B. Foley requested that "SBC Member" be added to his title in the meeting minutes going forward. E. Grijalva acknowledges and confirms the change.</p> <p>Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	Record
43.3	<p>Invoices and Commitments for approval:</p> <p>Firm: Dore + Whittier Management Partners; Description: CD Phase + Third Party Testing Services; Amount: <u>\$104,031.50</u></p> <p>A motion was made by J. Dowse and seconded by D. Haynes for the approval of DWMP Invoice No.031.</p> <p>Discussion: B. Foley asks when reviewing invoices for additional work from DRA, will the amendments for these areas be tied to both the project schedule and their original contract price?</p> <p>T. Elmore replies that the work in question is considered an addition beyond the original contract due to specific categories outlined by the MSBA contract. This contract, which we are required to use, excludes certain scope items because they are too variable and uncertain.</p> <p>Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	Record
	<p>Firm: Drummey Rosane Anderson; Description: Construction Documents; Amount: <u>\$1,432,500.00</u></p> <p>A motion was made by J. Dowse and seconded by B. Foley for the approval of the DRA Invoice No.029.</p> <p>Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	
	<p>Firm: Drummey Rosane Anderson; Description: Amendment No.006-Geotech; Amount: <u>\$12,314.50</u></p> <p>A motion was made by J. Dowse and seconded by B. Foley for the approval of the DRA professional invoice related to amendment no.006, in the amount of \$12,314.50.</p> <p>Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	

<p>Firm: Drummey Rosane Anderson; Description: Amendment No.009- Geotech Engineering for Additional Soil Exploration; Amount: <u>\$13,750.00</u></p> <p>A motion was made by J. Dowse and seconded by D. Haynes for the approval of the DRA professional invoice related to amendment no.009, in the amount of \$13,750.00.</p> <p>Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	
<p>Firm: Consigli Construction; Description: Preconstruction Services; Amount: <u>\$31,191.00</u></p> <p>The motion was made by D. Haynes and seconded by J. Dowse for the approval of the Consigli Preconstruction Invoice No.009.</p> <p>Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	
<p>Firm: Consigli Construction; Description: Construction Bid Enabling; Amount: <u>\$1,256,952.47</u></p> <p>A motion was made by J. Dowse and seconded by D. Walsh for the approval of the Consigli Application for Payment No.002.</p> <p>Discussion: Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: K. Maguire*; All in favor. Motion passes.</p> <p>*K. Maguire experience technical difficulties.</p>	
<p>Firm: Consigli Construction; Description: Change order No. 001; Amount: <u>\$0.00</u></p> <p>A motion was made by J. Dowse and seconded by B. Bowen for the approval of the change order no.001</p> <p>Discussion: M. Cox explained that Bid Package #1 includes holds and allowances allocated for unforeseen work. While this doesn't increase the contract value, authorization is required to utilize these allowances under the Consigli contract. Again, this is no addition to the contract, no additional costs.</p> <p>Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	
<p>Budget Revision Request for Approval; Amount: \$500,000.00</p> <p>A motion was made by J. Dowse and seconded by D. Haynes for the approval for a budget revision request, in the amount of \$500,000.00</p> <p>Discussion:</p>	

	<p>M. Cox explains that within the total project budget, we have various funds. As part of the geothermal design, we needed to increase the area's contract, which wasn't originally planned in the budget. While we've already approved their amendments, we now need to fund that specific division line. To do this, we are requesting you to move \$500,000 from the owner's contingency, a soft cost contingency for unforeseen expenses, to cover the current contracts and prepare for future design work that is not yet underway but anticipated as part of the project.</p> <p>B. Foley asks when we receive the IRA funds and the money starts coming in, will it be applied to that specific line, or will it be used to offset the overall cost? I just want to make sure I understand correctly.</p> <p>T. Elmore replies, the funds would technically be applied to the project budget, but they ultimately reduce the overall cost to the communities supporting the project. So once the money is received, the financial burden on the 11 communities decreases.</p> <p>B. Bowen asks, does this mean that by pulling money from the contingency to cover the increase during the design and planning phase, we'll be doing the same thing during the construction phase to cover additional costs? Or how will that be handled in the future?</p> <p>T. Elmore replies we don't have the contingency to cover the estimated \$12 million cost for the geothermal system. Therefore, we will need to increase the overall project budget. Additionally, we should include a note indicating that the MSBA grant is assumed to be around \$100 million, the IRA grant approximately \$10 million, and the Mass Save funding estimated at \$2 million. These are rough estimates. When we compile all of this, the total cost we communicated to the 11 communities remains unchanged.</p> <p>Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes</p>	
	<p>Firm: Drummey Rosane Anderson; Description: Amendment No.011 Revision: Revised Amount: \$404,690.00</p> <p>M. Cox commented that this is simply an acknowledgment. We agreed that the changes were for the additional 100 feet of depth in the test. We initially approved a depth of 500 feet, but then decided to extend it to 600. As a result, there is a charge of \$7,900 for the extra 100 feet with the machine.</p> <p>Discussion: None</p>	
	<p>Firm: Certified Safe Electric; Description: Final removal of solar panels: Amount: \$46,537.05</p> <p>D. Haynes comments a potential amendment might be forthcoming.</p> <p>Discussion: None</p>	
<p>43.5</p>	<p>Construction Update (refer to meeting packet for a visual of the CM monthly report)</p>	<p>Record</p>

	<p>S. Johnson provides a preview of an owner's monthly report, which includes the following sections:</p> <ul style="list-style-type: none"> • Financials <ul style="list-style-type: none"> ○ Current Contract: \$12,557,816.00 • Executive Overview <ul style="list-style-type: none"> ○ August Activities • Quality <ul style="list-style-type: none"> ○ (42) Submittals; (13) RFI • Schedule <ul style="list-style-type: none"> ○ 4 weeks look ahead • Progress Photos <p>Discussion: None</p>	
<p>43.7</p>	<p>Design Team Update</p> <p>V. Lyubetsky provides an update on going activities.</p> <ul style="list-style-type: none"> • Precast Subcontractor joining the team. <ul style="list-style-type: none"> ○ Focus on coordinating the building structure with precast panels and connections ○ Color & Texture Selection ○ Large Samples will be available at the precasters plat in Thomaston, Connecticut • Geothermal Design <ul style="list-style-type: none"> ○ Added mezzanine to accommodate geothermal pumping system • Foundation and structural steel bid package are being prepared, target of October 16th date • On-going meetings with Chapter 74 vocational programs • MSBA submission; October 3rd <ul style="list-style-type: none"> ○ Follow up meeting will take place <p>Discussion:</p> <p>B. Bowen asks, will the reconciliation process provide more specific and accurate numbers on geothermal based on the engineer updates?</p> <p>K. Lyon replies, our estimating team asks detailed questions to fully understand the scope of the geothermal, the team is relying on information from this meeting and recent bid results from other geothermal projects.</p>	<p>Record</p>
<p>43.9</p>	<p>Other Topics not Reasonably anticipated 48 hours prior to the Meeting.</p> <p>Discussion: None</p>	<p>Record</p>
<p>43.10</p>	<p>Public Comment:</p> <p>K. Maguire mentioned that Jeffrey will be joining us on Monday to discuss his collaboration and the situation with the MSBA.</p> <p>Discussion:</p>	<p>Record</p>
<p>43.11</p>	<p>Next Meeting:</p> <p><u>School Building Committee Meeting</u> School Building Committee Meeting – September 26, 2024, viz Zoom</p>	<p>Record</p>

	School Building Committee Meeting – October 10, 2024, viz Zoom School Building Committee Meeting – November 14, 2024, viz Zoom School Building Committee Meeting – December 12, 2024, viz Zoom Discussion: None	
43.12	<p>Adjourn: 5:12PM motion was made by B. Bowen and seconded by M. Procaccini to adjourn the meeting.</p> <p>Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.</p>	Record

DRAFT

Sincerely,
DORE + WHITTIER
 Elias Grijalva
 Assistant Project Manager
 Cc: Attendees, File

The above is my summation of our meeting. If you have any additions and/or corrections, please contact me for incorporation into these minutes.

Commitments for Approval

- 01) DRA Amendment No.012
- 02) DRA Amendment No.013
- 03) DWMP Amendment No.004

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES AMENDMENT NO. TWELVE

WHEREAS, the Tri-County Regional Vocational Technical School District ("Owner") and Drummeys Rosane Anderson, Inc., (the "Designer") (collectively, the "Parties") entered into a Contract for Designer Services for the Tri-County Regional Vocational Technical High School Project (MSBA Project # 201908780605) at the Tri-County Regional Vocational Technical High School on 147 Pond Street, Franklin, MA. "Contract"; and

WHEREAS, effective as of 20th of September 2024, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to provide the credit for the unused portion of previously approved MEPA permitting services, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for the Basic and Additional Services:

Fee for Basic Services	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
Feasibility Study Phase	\$ 285,000.00			\$ 285,000.00
Schematic Design Phase	\$ 340,000.00			\$ 340,000.00
Environmental & Site		\$ 71,610.00		\$ 71,610.00
Design Development Phase		\$ 7,500,000.00		\$ 7,500,000.00
Construction Document Phase		\$ 9,550,000.00		\$ 9,550,000.00
Bidding Phase		\$ 150,000.00		\$ 150,000.00
Construction Phase		\$ 3,800,000.00		\$ 3,800,000.00
Completion Phase		\$ 150,000.00		\$ 150,000.00
Amendment 6		\$ 123,200.00		\$ 123,200.00
Amendment 7		\$ 77,000.00		\$ 77,000.00
Amendment 8		\$ 89,100.00		\$ 89,100.00
Amendment 9		\$ 29,700.00		\$ 29,700.00
Amendment 10		\$ 77,385.00		\$ 77,385.00
Amendment 11		\$ 404,690.00		\$ 404,690.00
Amendment 12			\$ (73,602.00)	\$ (73,602.00)
Total Fee	\$ 625,000.00	\$ 22,022,685.00	\$ (73,602.00)	\$ 22,574,083.00

3. The Construction Budget shall be as follows:

Original Budget: \$ _____
Amended Budget \$ 234.3M per PSBA with MSBA

4. The Project Schedule shall be as follows:

Original Schedule: _____
Amended Schedule Phase 3 Substantial Completion - July of 2027

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Karen M. Maguire, M.Ed
(print name)

Superintendent-Director
(print title)

By _____

Date _____

DESIGNER

Carl Franceschi, A.I.A
(print name)

Principal
(print title)

By 
(signature)

Date September 23, 2024



PROFESSIONAL SERVICES SUPPLEMENT

PSS No. 12

In accordance with the **AGREEMENT** dated: **January 18, 2022**

BETWEEN: **Tri-County Regional Vocational Technical School District**
and: **Drummey Rosane Anderson, Inc.**
for the Project: *(Insert Project name and address as it appears in the Agreement.)*
Tri-County Regional Vocational Technical School

Authorization is given requested to proceed with Additional Services to proceed with revised scope of Basic Services to incur Reimbursable Expenses

OR

Notification is made of the need to proceed with Contingent Additional Services of the need for other Services

as follows:

For the following services in accordance with the Agreement Article 9 Reimbursable Expenses:
Credit for the unused portion of previously approved Contract Ammendment No. 7 (PSS 7) MEPA (ENF) permitting.

The following adjustments shall be made to compensation and time.

Compensation: *(Insert provisions in accordance with the Agreement, or as otherwise agreed by the parties.)*

Credit for the unused portion of the PSS #07 - \$77,000 - \$3,398 = (\$73,602)
TOTAL PROPOSAL: (\$73,602)

Time: *(Insert provisions covering time of commencement and completion of authorized services as applicable.)*

The work for these services shall start as soon as required by the design and construction activities following approval of the Contract Amendment.

***** PROMPT WRITTEN NOTICE IS REQUIRED IF THE SERVICES INDICATED ARE NOT NEEDED *****

SUBMITTED BY:
Drummey Rosane Anderson, Inc.

AUTHORIZATION IS GIVEN or
NOTIFICATION IS ACKNOWLEDGED BY:


(Signature)

(Signature)

Vladimir Lyubetsky, Principal
(Printed name and title)

(Printed name and title)

September 20, 2024
(Date)

(Date)

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES AMENDMENT NO. THIRTEEN

WHEREAS, the Tri-County Regional Vocational Technical School District ("Owner") and Drummeys Rosane Anderson, Inc., (the "Designer") (collectively, the "Parties") entered into a Contract for Designer Services for the Tri-County Regional Vocational Technical High School Project (MSBA Project # 201908780605) at the Tri-County Regional Vocational Technical High School on 147 Pond Street, Franklin, MA . "Contract"; and

WHEREAS, effective as of 20th of September 2024, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to with the Environmental Soil Testing services defined in the PSS 13, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for the Basic and Additional Services:

Fee for Basic Services	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
Feasibility Study Phase	\$ 285,000.00			\$ 285,000.00
Schematic Design Phase	\$ 340,000.00			\$ 340,000.00
Environmental & Site		\$ 71,610.00		\$ 71,610.00
Design Development Phase		\$ 7,500,000.00		\$ 7,500,000.00
Construction Document Phase		\$ 9,550,000.00		\$ 9,550,000.00
Bidding Phase		\$ 150,000.00		\$ 150,000.00
Construction Phase		\$ 3,800,000.00		\$ 3,800,000.00
Completion Phase		\$ 150,000.00		\$ 150,000.00
Amendment 6		\$ 123,200.00		\$ 123,200.00
Amendment 7		\$ 77,000.00		\$ 77,000.00
Amendment 8		\$ 89,100.00		\$ 89,100.00
Amendment 9		\$ 29,700.00		\$ 29,700.00
Amendment 10		\$ 77,385.00		\$ 77,385.00
Amendment 11		\$ 404,690.00		\$ 404,690.00
Amendment 12		\$ (73,602.00)		\$ (73,602.00)
Amendment 13			\$ 56,100.00	\$ 56,100.00
Total Fee	\$ 625,000.00	\$ 21,949,083.00	\$ 56,100.00	\$ 22,630,183.00

3. The Construction Budget shall be as follows:

Original Budget: \$ _____
Amended Budget \$ 234.3M per PSBA with MSBA

4. The Project Schedule shall be as follows:

Original Schedule: _____
Amended Schedule Phase 3 Substantial Completion - July of 2027

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

DESIGNER

Karen M. Maguire, M.Ed
(print name)

Carl Franceschi, A.I.A
(print name)

Superintendent-Director
(print title)

Principal
(print title)

By 
(signature)

By _____

Date September 23, 2024

Date _____



PROFESSIONAL SERVICES SUPPLEMENT

PSS No. 13

In accordance with the AGREEMENT dated: January 18, 2022

BETWEEN: Tri-County Regional Vocational Technical School District and: Drummey Rosane Anderson, Inc. for the Project: (Insert Project name and address as it appears in the Agreement.) Tri-County Regional Vocational Technical School

Authorization is [X] given [] requested [X] to proceed with Additional Services [] to proceed with revised scope of Basic Services [X] to incur Reimbursable Expenses

OR

Notification is made [] of the need to proceed with Contingent Additional Services [] of the need for other Services

as follows:

For the following services in accordance with the Agreement Article 9 Reimbursable Expenses: Environmental Testing Soil Export from Building Pad Consulting Services as defined in OTO proposals dated August 29, 2024. (5 pages).

The following adjustments shall be made to compensation and time.

Compensation: (Insert provisions in accordance with the Agreement, or as otherwise agreed by the parties.)

See attached OTO proposals: \$51,000 (NTE) DRA's 10% markup \$5,100. TOTAL PROPOSAL: \$56,100

Time: (Insert provisions covering time of commencement and completion of authorized services as applicable.)

The work for these services shall start as soon as required by the design and construction activities following approval of the Contract Amendment.

***** PROMPT WRITTEN NOTICE IS REQUIRED IF THE SERVICES INDICATED ARE NOT NEEDED *****

SUBMITTED BY: Drummey Rosane Anderson, Inc.

AUTHORIZATION IS GIVEN or NOTIFICATION IS ACKNOWLEDGED BY:

(Signature) [Signature] Vladimir Lyubetsky, Principal

(Signature) (Printed name and title)

(Date) September 20, 2024

(Date)



P3487-01-09
August 29, 2024

Tri-County Regional Vocational Technical High School
c/o DRA Architects
260 Charles Street, Suite 300
Waltham, MA 02453

Attn: Vladimir Lyubetsky
Delivered via email: VLyubetsky@draws.com

Re: Proposal for Environmental Testing
Soil Export from Building Pad
Tri-County Vocational High School, 147 Pond Street
Franklin, Massachusetts

Dear Mr. Lyubetsky:

As we discussed, O'Reilly, Talbot & Okun Associates, Inc. (OTO) presents this supplemental proposal for soil sample collection and soil disposal consulting services for excess soils generated during excavation of the building pad the new Tri-County Vocational High School site. As requested, O'Reilly, Talbot & Okun Associates Inc. (OTO) are pleased to submit this proposal to DRA on behalf of the Tri-County Regional Vocational Technical High School.

This proposal specifically addresses the environmental testing of approximately 30,000 cubic yards of soil to be generated during the preparation of the building pad and exported off-site during the Early Site Package portion of the project. In preparing this proposal we have consulted with Steve Johnson of Consigli. A table prepared by Consigli is attached. This proposal does not cover testing for soils to be exported off-site during 2025 and 2026. Also we assume that blast rock will not need to be tested.

SCOPE OF SERVICES

The objective of our services will be to support the offsite recycling/disposal of site soils. In general, these services will involve four activities; the collection of soil samples, the laboratory analyses of the samples collected, the evaluation of the data and the identification of disposal alternatives, and the preparation of facility approval applications and shipping documentation. To meet these objectives the following tasks are proposed.

Task 1 – In situ Soil Sampling prior to Excavation

We understand that Consigli is proposing to pre-characterize samples prior to the start of excavation activities for the building pad to eliminate the need to temporarily stockpile onsite, to expedite construction, or to evaluate estimate soil disposal cost prior to the start of this work.

In situ soil samples can be collected using a backhoe provided by the site contractor to excavate test pits. We will conduct our testing via a virtual meeting with Consigli to identify excavation locations and depths. Based upon this information we will propose sampling locations. We estimate that 30 samples will be required based upon the expected soil volume. We understand that the initial samples will be collected the week of September 3, 2024.

Typically, the excavation areas are segmented into grids and several grab samples are collected from each grid and mixed in bowl or in disposable plastic bags to create a composite sample for laboratory analyses. The resulting composite sample will be placed in the appropriate laboratory containers, preserved on ice and delivered to the testing laboratory.

Task 2 – Laboratory Analysis

We anticipate that 30 samples will be collected and tested for a large range of contaminants that are present or are likely present at the project site and are of interest to the potential disposal sites. The frequency of testing can vary from one sample for every 1,000 cubic yards.

Samples will be tested at a Massachusetts-certified laboratory for environmental parameters such as:

- total petroleum hydrocarbons (TPH, USEPA Method 8100M),
- volatile organic compounds (VOCs, USEPA Method 8260),
- semi-volatile organic compounds (SVOCs, USEPA Method 8270),
- polychlorinated biphenyls (PCBs, USEPA Method 8082),
- total concentrations of metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by USEPA Methods 6020 and 7470),
- chlorinated pesticides/herbicides (including toxaphene and pyridine), and
- characteristic waste criteria (pH/corrosivity, specific conductivity, flash/ignitability, and cyanide and sulfide reactivity).

The estimated cost for 30 samples using the complete list of parameters is provided below. This cost is based upon the current (2024) laboratory fee schedule. The cost provided assumes a standard 7 to 10-day turnaround time. Rush turnaround times may be accommodated by the laboratory with a surcharge per sample of 25% (4-day turnaround) to 100% (24-hour turnaround).

Task 3 – Data Evaluation and Disposal Consulting

An OTO Licensed Site Professional (LSP) will visit the site and review each laboratory data package, tabulate the results and compare them to regulatory standards, and provide guidance for the appropriate receiving facility for the material. Our estimated average cost to review the laboratory data is provided below. We will present our results in two concise letter reports (one for the topsoil and a second for the underlying soil). The letters will contain an opinion regarding potential Reportable Conditions or whether further work is

required to comply with MassDEP requirements. IF a reportable condition is identified we will provide a supplemental proposal for work associated with compliance with the Massachusetts Contingency Plan (MCP). This is not anticipated currently give site history.

Task 4 – Bill of Lading/Waste Manifests

If the results indicate that oil or hazardous materials are present in the soil, a waste shipping manifest or Massachusetts Department of Environmental Protection (MassDEP) bill of lading will likely be required. We will prepare the waste manifest/bill of lading along with any disposal site applications that might be required. The cost for preparation of a bill of lading, waste manifest, and disposal facility application will vary upon the contaminants present and the receiving facility requirements. We recommend that the Client assume a cost of approximately \$2,000 per disposal package and that two packages will be required. These costs do not include preparation of MassDEP submittals, ongoing coordination with disposal/recycling facilities, or transportation and disposal costs.

ESTIMATED COST

Our professional services will be billed on a time and material basis for each task in accordance with the Schedule of Fees in our existing contract with DRA. Please note that this schedule of fees would also apply to our services associated with asbestos containing material assessments and documentation.

Table 1 provides our estimated cost based upon the number of samples collected, selected analytical methods, results of analysis, and disposal site requirements.

**Table 1
 Conceptual Estimated Costs**

Item	OTO Services	Expenses	Notes
Task 1 – Coordination and In-situ Soil Sampling	\$5,500	\$500	Assumes 3 Field Days
Task 2 – Laboratory Analysis	\$500	\$35,500 ¹	Assumes 30-samples (lab)
Task 3 – Data Evaluation and Disposal Consulting	\$5,000		Assumes two disposal packages
Task 4 – Bill of Lading/Waste Manifest Preparation	\$4,000		Assumes 2 packages, may vary depending on disposal site requirements
Sub Totals	\$15,000	\$36,000	
Total Cost	\$51,000		
Notes:			
1. Laboratory cost assumes standard 5-day turnaround. Rush turnaround time is subject to a surcharge of up to 100%. A quote for rush turnaround can be obtained if desired.			

CONDITIONS OF ENGAGEMENT

We propose to complete the tasks outlined in this proposal consistent with the Terms and Conditions of our existing contract with DRA.

ACCEPTANCE

This proposal may be accepted by signing in the appropriate spaces below and returning one copy to us or by issuing a Purchase order under our existing contract. This proposal is valid for a period of 30 days from the date of issue.

We appreciate the opportunity to be considered for this project. Should you have any questions or require additional information, please feel free to contact us at 413-788-6222.

Sincerely,
O'Reilly, Talbot & Okun Associates, Inc.



Michael J. Talbot, PE
Principal

This Proposal is hereby accepted and executed by a duly authorized signatory, who by execution hereof, warrants that he/she has full authority to act for, in the name, and on behalf of Client.

**Tri-County Regional Vocational Technical High School
c/o DRA Architects**

By: _____

Title: _____

Printed Name: _____

Date: _____



	<i>Cut</i>	<i>Stockpile</i>	<i>Reuse</i>	<i>Export</i>	<i>Import</i>	<i>Notes</i>
PHASE ENABLING: Softball Field, Lower Parking Lot and Goat Path						
Topsoil	2,792			2,792		Avg. 6". Remove & Dispose
Ledge	25			35		25cy (Neat) x1.40 (swell)=35cy
Unsuitable	1,514			1,514		Assume Unsuitable
Glacial Till & Sand	5,176	5,176	5,176		7,560	potentially from Phase 1 excess soil cuts
PHASE 1 BUILDING FOOTPRINT:						
Topsoil	6,818			6,818		full export and full import
Ledge	2,953			4,134		2,953cy (Neat) x1.40 (swell)=4,134cy
Unsuitable	77			77		full export and full import
Glacial Till & Sand	57,219	14,000	19,704	17,673		- 10,000cy to stockpile in .73 acre lot. These soils to be used to remaining site fills - 4,000cy +/- to be reused @ Detention System Perimeter B'fills but remain onsite - 19,700cy to Stockpile @ Upper Level Play Fields. Upper Field Stockpile location to be reused around building area for fills
Glacial Till & Sand	5,842		5,842			in building area 2' below bottom of slab
Structural	21,406		15,919	5,187	16,059	Cuts indicate new foundation soil excavations and reuse of those soils as backfill. 12" beneath building slab and footings with crushed stone.
PHASE 2 FOUNDATIONS: Excavation and Backfill for Footings and Foundations						
any soils generated for foundation and footing installation will be reused as structural backfill						
import of topsoil for final grading						
PHASE 3 FIELDS: Summer 2025 - Track/Soccer Field						
Topsoil	2,288			2,288		full export and full import
Ledge						
Unsuitable	3,864			3,864		Assume Unsuitable
Glacial Till & Sand			1,701			Reuse of Phase 1 soils at Playfields. Soil comes from Stockpile @ Hillside location 0.73 acre lot.
PHASE 4 FIELDS: Summer 2026 - North Playfields						
Topsoil	2,062			2,062		full export and full import
Ledge						
Unsuitable	359			359		Assume Unsuitable
Glacial Till & Sand	63	63	1,458			Reuse of Phase 1 soils at Playfields. Soil comes from Stockpile @ Hillside location 0.73 acre lot.
PHASE 5: Demo, Parking Lot, Football and Baseball Field						
Topsoil	3,165			3,165		full export and full import
Ledge	2,247			3,146		2,247cy (Neat) x1.40 (swell)=3,146cy
Unsuitable	9,131			9,131		Assume Unsuitable
Glacial Till & Sand	9,500	9,500	6,841		37,955	parking lots and fields 1' below finish grade and existing building footprint fill
TOTAL:						
Glacial Till & Sand	71,958	28,739		19,187	45,515	G40= Unsuitable Fills Volumes
				<i>Export</i>	<i>Import</i>	<i>Delta</i>
GRAND TOTAL (all soils)				62,245	61,574	671

ATTACHMENT B

CONTRACT FOR PROJECT MANAGEMENT SERVICES

AMENDMENT NO. 004

WHEREAS the Tri-County Regional Vocational Technical School District (“Owner”) and Dore & Whitter Management Partners, LLC (the “Owner’s Project Manager”) (collectively, the “Parties”) entered into a Contract for Project Management Services for the Tri-County Regional Vocational Technical High School Project (Project Number: 201908780605) at the Tri-County Regional Vocational Technical High School on May 14th, 2021 “Contract”; and

WHEREAS, effective as of September 26, 2024, the Parties wish to amend the Contract, as amended:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner authorizes the Owner’s Project Manager to contract an independent structural engineer, RSV Associates, to conduct a review of the Construction Bid Documents, focusing on the designers' specifications and local Building Commissioners' requirements. The fees for these services will be based on the Lump Sum outlined in RSV Associates' Proposal Document. According to the OPM contract, Dore + Whittier Management Partners is permitted to add a 10% markup to the invoices to cover administrative costs, in accordance with the terms and conditions specified in the Base Contract, as amended.

2. For the performance of services required under the Contract, as amended, the OPM shall be compensated by the Owner in accordance with the following Fee:

Fee for Basic Services:	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
OPM - Feasibility Study	<u>\$170,000.00</u>	<u>\$ _____</u>	<u>\$ 0.00</u>	<u>\$ 170,000.00</u>
OPM - Design Development	<u>\$130,000.00</u>	<u>\$(25,000.00)</u>	<u>\$ 0.00</u>	<u>\$ 105,000.00</u>
OPM – Construction Documents	<u>\$ _____</u>	<u>\$1,900,000.00</u>	<u>\$ 0.00</u>	<u>\$ 1,900,000.00</u>
OPM – Bidding	<u>\$ _____</u>	<u>\$ 200,000.00</u>	<u>\$ 0.00</u>	<u>\$ 200,000.00</u>
OPM – Construction	<u>\$ _____</u>	<u>\$4,700,000.00</u>	<u>\$ 0.00</u>	<u>\$ 4,700,000.00</u>
OPM – Closeout	<u>\$ _____</u>	<u>\$ 200,000.00</u>	<u>\$ 0.00</u>	<u>\$ 200,000.00</u>
OPM – 3 rd Party Testing #1	<u>\$ _____</u>	<u>\$ 200,000.00</u>	<u>\$ 0.00</u>	<u>\$ 200,000.00</u>
OPM – Structural Peer Review	<u>\$ _____</u>	<u>\$ 200,000.00</u>	<u>\$ 5,280.00</u>	<u>\$ 5,280.00</u>
Total Fee	<u>\$300,000.00</u>	<u>\$7,175,000.00</u>	<u>\$ 5,280.00</u>	<u>\$ 7,480,280.00</u>

This Amendment results in the following: Dore and Whittier Management Partners is authorized to proceed with procurement of an independent structural engineer to review the Construction Bid Documents.

3. The Construction Budget shall be as follows:

Original Budget: \$ 233,267,235.00
Amended Budget \$ _____

4. The Project Schedule shall be as follows:

Original Schedule: TBD
Amended Schedule _____

5. The Authority's standard OPM Contract Amendment for *CM at RISK*, which is incorporated by reference herein, is made a part of the Contract in its entirety.

6. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract, as amended. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract, as amended, shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract, as amended, remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Owner's Project Manager have caused this Amendment to be executed by their respective authorized officers.

OWNER

Dr. Karen Maguire
(print name)

Superintendent-Director
(print title)

By _____
(signature)

Date _____

OWNER'S PROJECT MANAGER

Trip Elmore
(print name)

Partner, Project Director
(print title)

By _____
(signature)

Date September 26,2024

**60% Construction Document
Reconciled Estimates**



Description	Takeoff Quantity	Total Cost/Unit	Total Amount
00 New School			
A10 Foundations			
A1010 Standard Foundations	281,500 sf	14.40 /sf	4,054,592
A1030 Slab on Grade	281,500 sf	10.48 /sf	2,951,089
A10 Foundations	281,500 sf	24.89 /sf	7,005,681
B10 Superstructure			
B1010 Floor Construction	281,500 sf	38.48 /sf	10,833,071
B1020 Roof Construction	281,500 sf	22.56 /sf	6,351,669
B10 Superstructure	281,500 sf	61.05 /sf	17,184,740
B20 Exterior Enclosure			
B2010 Exterior Walls	281,500 sf	32.36 /sf	9,110,419
B2020 Exterior Windows	281,500 sf	27.04 /sf	7,612,144
B2030 Exterior Doors	281,500 sf	2.73 /sf	766,950
B20 Exterior Enclosure	281,500 sf	62.13 /sf	17,489,514
B30 Roofing			
B3010 Roof Coverings	281,500 sf	25.59 /sf	7,202,384
B30 Roofing	281,500 sf	25.59 /sf	7,202,384
C10 Interior Construction			
C1010 Partitions	281,500 sf	49.06 /sf	13,810,096
C1020 Interior Doors	281,500 sf	9.71 /sf	2,732,391
C1030 Fittings/Specialties	281,500 sf	11.51 /sf	3,239,381
C10 Interior Construction	281,500 sf	70.27 /sf	19,781,868
C20 Stairs			
C2010 Stair Construction	281,500 sf	4.48 /sf	1,259,926
C2020 Stair Finishes	281,500 sf	0.62 /sf	173,769
C20 Stairs	281,500 sf	5.09 /sf	1,433,695
C30 Interior Finishes			
C3010 Wall Finishes	281,500 sf	9.99 /sf	2,813,358
C3020 Floor Finishes	281,500 sf	15.60 /sf	4,390,829
C3030 Ceiling Finishes	281,500 sf	14.64 /sf	4,120,377
C30 Interior Finishes	281,500 sf	40.23 /sf	11,324,563
D10 Conveying Systems			
D1010 Elevators & Lifts	281,500 sf	2.00 /sf	562,263
D10 Conveying Systems	281,500 sf	2.00 /sf	562,263
D20 Plumbing			
D2010 Plumbing Fixtures	281,500 sf	3.07 /sf	863,225
D2020 Domestic Water Distribution	281,500 sf	11.57 /sf	3,256,931
D2030 Sanitary Waste	281,500 sf	5.83 /sf	1,640,571
D2040 Rain Water Drainage	281,500 sf	3.96 /sf	1,113,289
D2090 Other Plumbing Systems	281,500 sf	5.22 /sf	1,470,241
D20 Plumbing	281,500 sf	29.64 /sf	8,344,257



Description	Takeoff Quantity	Total Cost/Unit	Total Amount
D30 Heating, Ventilating, and Air Conditioning (HVAC)			
D3010 Energy Supply	281,500 sf	6.28 /sf	1,768,044
D3040 HVAC Distribution	281,500 sf	21.57 /sf	6,073,215
D3050 Terminal & Package Units	281,500 sf	30.53 /sf	8,595,081
D3060 HVAC Instrumentation & Controls	281,500 sf	7.61 /sf	2,142,886
D3070 Testing, Adjusting & Balancing	281,500 sf	0.90 /sf	254,042
D3090 Other HVAC Systems & Equipment	281,500 sf	5.12 /sf	1,440,190
D30 Heating, Ventilating, and Air Conditioning (HVAC)	281,500 sf	72.02 /sf	20,273,458
D40 Fire Protection Systems			
D4010 Sprinklers	281,500 sf	7.42 /sf	2,087,788
D4020 Standpipes	281,500 sf	0.40 /sf	113,411
D4030 Fire Protection Specialties	281,500 sf	0.15 /sf	42,250
D4090 Other Fire Protection Systems	281,500 sf	0.97 /sf	274,190
D40 Fire Protection Systems	281,500 sf	8.94 /sf	2,517,639
D50 Electrical Systems			
D5010 Service & Distribution	281,500 sf	30.22 /sf	8,505,823
D5020 Lighting & Branch Wiring	281,500 sf	13.86 /sf	3,900,080
D5030 Communications & Security	281,500 sf	21.82 /sf	6,141,113
D5090 Other Electrical Systems	281,500 sf	6.84 /sf	1,925,327
D50 Electrical Systems	281,500 sf	72.73 /sf	20,472,344
E10 Equipment			
E1010 Commercial Equipment	281,500 sf	/sf	
E1020 Institutional Equipment	281,500 sf	4.28 /sf	1,204,065
E1030 Vehicular Equipment	281,500 sf	0.07 /sf	20,000
E1090 Other Equipment	281,500 sf	8.04 /sf	2,263,520
E10 Equipment	281,500 sf	12.39 /sf	3,487,585
E20 Furnishings			
E2010 Fixed Furnishings	281,500 sf	10.73 /sf	3,021,670
E2020 Movable Furnishings	281,500 sf	3.19 /sf	897,060
E20 Furnishings	281,500 sf	13.92 /sf	3,918,730
G10 Site Preparation			
G1030 Site Earthwork	281,500 sf	3.20 /sf	900,000
G10 Site Preparation	281,500 sf	3.20 /sf	900,000
G30 Site Civil/Mechanical Utilites			
G3030 Storm Drainage	281,500 sf	0.34 /sf	95,000
G30 Site Civil/Mechanical Utilites	281,500 sf	0.34 /sf	95,000
G40 Site Electrical Utilities			
G4010 Electrical Distribution	281,500 sf	1.27 /sf	358,595
G40 Site Electrical Utilities	281,500 sf	1.27 /sf	358,595
Z10 General Requirements			
Z1010 Administration	281,500 sf	/sf	0



Description	Takeoff Quantity	Total Cost/Unit	Total Amount
Z10 General Requirements	281,500 sf	/sf	0
00 New School	281,500 sf	505.69 /sf	142,352,315
01 Sitework/Landscaping			
A10 Foundations			
A1010 Standard Foundations	2,312,920 sf	0.00 /sf	1,458
A1030 Slab on Grade	2,312,920 sf	0.03 /sf	63,505
A10 Foundations	2,312,920 sf	0.03 /sf	64,963
D40 Fire Protection Systems			
D4010 Sprinklers	2,312,920 sf	/sf	
D4090 Other Fire Protection Systems	2,312,920 sf	/sf	
D40 Fire Protection Systems	2,312,920 sf	/sf	
D50 Electrical Systems			
D5010 Service & Distribution	2,312,920 sf	0.11 /sf	244,268
D5020 Lighting & Branch Wiring	2,312,920 sf	0.02 /sf	52,324
D5030 Communications & Security	2,312,920 sf	0.23 /sf	525,989
D5090 Other Electrical Systems	2,312,920 sf	0.21 /sf	495,567
D50 Electrical Systems	2,312,920 sf	0.57 /sf	1,318,147
E20 Furnishings			
E2020 Movable Furnishings	2,312,920 sf	0.07 /sf	168,175
E20 Furnishings	2,312,920 sf	0.07 /sf	168,175
F20 Selective Demolition			
F2010 Building Elements Demolition	2,312,920 sf	0.00 /sf	2,171
F20 Selective Demolition	2,312,920 sf	0.00 /sf	2,171
G10 Site Preparation			
G1010 Site Clearing	2,312,920 sf	0.34 /sf	796,420
G1020 Site Demolition & Relocations	2,312,920 sf	0.45 /sf	1,036,287
G1030 Site Earthwork	2,312,920 sf	2.89 /sf	6,680,350
G10 Site Preparation	2,312,920 sf	3.68 /sf	8,513,057
G20 Site Improvements			
G2010 Roadways	2,312,920 sf	0.08 /sf	181,946
G2020 Parking Lots	2,312,920 sf	2.28 /sf	5,273,232
G2030 Pedestrian Paving	2,312,920 sf	0.30 /sf	699,047
G2040 Site Development	2,312,920 sf	1.51 /sf	3,494,547
G2050 Landscaping	2,312,920 sf	1.13 /sf	2,604,775
G4020 Site Lighting	2,312,920 sf	0.02 /sf	50,000
G20 Site Improvements	2,312,920 sf	5.32 /sf	12,303,547
G30 Site Civil/Mechanical Utilites			
G3010 Water Supply	2,312,920 sf	0.05 /sf	105,060
G3020 Sanitary Sewer	2,312,920 sf	0.08 /sf	190,543
G3030 Storm Drainage	2,312,920 sf	0.92 /sf	2,132,098



Description	Takeoff Quantity	Total Cost/Unit	Total Amount
G30 Site Civil/Mechanical Utilites	2,312,920 sf	1.05 /sf	2,427,700
G40 Site Electrical Utilities			
G4010 Electrical Distribution	2,312,920 sf	0.97 /sf	2,238,413
G4020 Site Lighting	2,312,920 sf	0.53 /sf	1,230,344
G4030 Site Communications & Security	2,312,920 sf	0.23 /sf	529,333
G40 Site Electrical Utilities	2,312,920 sf	1.73 /sf	3,998,089
01 Sitework/Landscaping	53 ac	543,317.90 /ac	28,795,849
02 Demo/Abatement			
D50 Electrical Systems			
D5090 Other Electrical Systems	284,000 sf	0.15 /sf	41,443
D50 Electrical Systems	284,000 sf	0.15 /sf	41,443
F20 Selective Demolition			
F2010 Building Elements Demolition	284,000 sf	12.26 /sf	3,483,000
F2020 Hazardous Component Abatement	284,000 sf	2.85 /sf	809,886
F20 Selective Demolition	284,000 sf	15.12 /sf	4,292,886
02 Demo/Abatement	284,000 sf	15.26 /sf	4,334,329
03 Geothermal			
G30 Site Civil/Mechanical Utilites			
G3090 Other Site Mechanical Utilites	281,500 sf	24.17 /sf	6,803,032
G30 Site Civil/Mechanical Utilites	281,500 sf	24.17 /sf	6,803,032
03 Geothermal	281,500 sf	24.17 /sf	6,803,032



Estimate Totals

Description	Amount	Totals	Rate	Cost per Unit
Subtotal	182,285,526	182,285,526		647.551 /sf
Design/Estimate Contingency	5,431,933		3.000 %	19.296 /sf
Escalation	3,021,241		1.620 %	10.733 /sf
SDI (Non-Trade Contracts)	1,313,794		1.400 %	4.667 /sf
Subtotal	9,766,968	192,052,494		682.247 /sf
Contractor's Contingency	4,801,312		2.500 %	17.056 /sf
General Conditions	9,695,620			34.443 /sf
General Requirements	7,887,181			28.018 /sf
Subtotal	22,384,113	214,436,607		761.764 /sf
Builder's Risk Insurance	574,164		0.243 %	2.040 /sf
General Liability Insurance	2,599,098		1.100 %	9.233 /sf
Building Permit - NIC				
Performance & Payment Bond	1,727,219		0.731 %	6.136 /sf
Subtotal	4,900,481	219,337,088		779.173 /sf
Fee	4,386,742		2.000 %	15.583 /sf
Pre-GMP #1 (Sitework/Enabling)	12,557,816			44.610 /sf
Total		236,281,646		839.366 /sf

**Tri-County Regional Vocational HS
258 Main Street
Milford, MA 02038**

60% Construction Documents Estimate - RECON

09/26/2024

DRUMMEY ROSANE ANDERSON, INC
260 Charles Street, Suite 300
Waltham, MA 02453



98 N. Washington St. Boston, MA 02114
(857) 233-4561



**Tri-County Regional Vocational HS
Milford, MA 02038
60% Construction Documents Estimate - RECON**

09/26/2024

BASIS OF ESTIMATE

1 **1. INTRODUCTION**

2 This estimate is based upon 60% Construction Documents scope documentation prepared by DRA 08-29-2024

4 **2. PROJECT OUTLINE**

5 The project consists of a new regional vocational high school project located in Milford, MA

7 **Project Size for Reference**

8 281,500 GSF

10 **Dates for Reference (TBD)**

11 **Early Bid Package # 01 - Site & Enabling**

12 06/14/2024 - Bid Package #01 (Site-Enabling) Bid Date

13 12/15/2024 - BP # 01 Contract Award Date

14 **Early Bid Package # 02 - Precast Siding Panels**

15 06/14/2024 - Bid Package #02 (Precast Siding Panels) Bid Date

16 12/15/2024 - BP # 02 Contract Award Date

17 **Early Bid Package # 03 - Foundation, Steel, Site for bldg & Geothermal**

18 10/16/2024 - Bid Package #03 (Foundation, Steel, site, geothermal) Bid Date

19 12/15/2024 - BP # 03 Contract Award Date

20 **Early Bid Package # 04 MEP**

21 06/03/2025 - Bid Package #04 (MEPs) Bid Date

22 07/18/2025 - BP # 04 Contract Award Date

23 **Main Bid, GMP**

24 04/04/2025 - Estimated Bid Date

25 04/28/2025 - Contract Award Date

26 **Construction**

27 10/28/2024 - Anticipated Construction Start Date, Phase 01

28 03/01/2027 - Anticipated Construction Start Date, Phase 02

29 08/27/2028 - Anticipated Construction Finish Date

30 47.00 - Construction Duration, months

31

32 **3. BASIS FOR PRICING**

BASIS OF ESTIMATE

33 **General**

34 Generally based on local prevailing and applicable union wage rates at the time the estimate was prepared.

35 Contractor to have unrestricted access to work areas to maintain schedule

36 Regular working hours with limited overtime.

37 Pricing assumes a competitive bidding process, which is to mean a minimum of 4 bids including all subcontractors and materials/equipment suppliers. If fewer bids are solicited or received, prices can be expected to be higher.

38 Subcontractor's mark-ups have been included in each line item unit price. Mark-ups cover the cost of field overhead, home office overhead and subcontractor's profit. Subcontractor's mark-ups vary depending on market conditions.

39 Design Contingency percentage included to cover cost increases that will occur during design elaboration or unforeseen design issues. As the design develops, the design contingency is reduced, and is usually eliminated at the final Construction Document estimate if all scope identified.

40 Quantification is based on measurable items where possible, for the remainder, parametric measurements used in conjunction with references from similar projects recently estimated by ELLANA.

41 General conditions and general requirements, where included and are in line with those carried by CMR as part of this estimate submission

42

43 **Mark-Ups and Contingencies**

44 Mark-ups and contingencies included within our estimate. Common mark-ups and contingencies that are included taking into account the following items but not limited to: level of design, contract procurement method, construction duration, project location, facility type, occupancy and current market conditions to list a few

45

46 **4. ITEMS NOT INCLUDED IN THIS ESTIMATE**

47 Financing costs.

48 Land acquisition.

49 Contaminated soil abatement.

50 Groundwater management (unless specifically noted)

51 Excavation in rock.

52 Unforeseen underground obstructions

53 Test bores, pits and reports in connection with Structural and Civils.

BASIS OF ESTIMATE

- 54 Permits.
- 55 Local Authority and Utility Providers Costs outside the project boundary.
- 56 Items identified in the design as Not In Contract (NIC).
- 57 Warranties
- 58 LEED / Sustainability Fees
- 59 Facility shutdown costs for tie-ins to existing systems
- 60 Client FM Costs
- 61 3rd Party Inspections
- 62 Loose furnishings
- 63 Architect & Engineer Fees.
- 64

5. ITEMS THAT MAY AFFECT ESTIMATED COSTS

- 65
- 66 Such items include, but are not limited to the following:
- 67 Subcontractor bid solicitation and submission during the procurement period of the project
- 68 Modifications to the scope of work subsequent to the preparation of this estimate.
- 69 Unforeseen or hidden conditions.
- 70 Special requirements for site access, off-hour work or phasing activities.
- 71 Restrictive technical specifications for materials or products.
- 72 Bid approvals delayed beyond the anticipated project schedule.
- 73 Specific means and methods of construction, sequencing, etc. required by the contractor.
- 74

6. STATEMENT OF PROBABLE COST OF CONSTRUCTION

- 75
- 76 ELLANA requests that the Owner and Architect carefully review this estimate, including all line item descriptions, unit prices, clarifications, exclusions, inclusions, assumptions, contingencies, escalation, and mark-ups to ensure that requirements have been correctly identified. If this estimate does not correspond to the Owner's budgetary objectives, ELLANA strongly suggests that evaluations of other design alternatives/project procurement options should be made before proceeding further.
- 77 ELLANA has prepared this estimate in accordance with generally accepted principles and practices to reflect the fair market value of the project. This estimate is made on the basis of the experience, qualifications, and the best judgment of professional consultants who are familiar with the construction industry. Contractors preferred means and methods of construction are not accounted for in this pricing.



**Tri-County Regional Vocational HS
Milford, MA 02038
60% Construction Documents Estimate - RECON**

09/26/2024

BASIS OF ESTIMATE

78 ELLANA has no control over the method of determining prices adopted by any individual general contractor, subcontractor or supplier. ELLANA cannot control the cost of labor and materials, the bidding environment or other market conditions, and it is not possible to provide any guarantee that proposals, bids, or actual construction costs will not deviate from this or subsequent cost estimates.



60% Construction Documents Estimate - RECON

COST SUMMARY		Size	281,500 GSF	
		Including	New	
		NEW CONSTRUCTION		
		Subtotal Trade	Total	
		Cost/sf		
A	SUBSTRUCTURE		7,090,434	25.19
	A10 Foundations	7,090,434		25.19
	A20 Basement Construction	-		-
B	SHELL		41,852,385	148.68
	B10 Superstructure	17,043,955		60.55
	B20 Exterior Enclosure	17,642,015		62.67
	B30 Roofing	7,166,415		25.46
C	INTERIORS		32,128,290	114.13
	C10 Interior Construction	19,405,815		68.94
	C20 Stairs	1,343,770		4.77
	C30 Interior Finishes	11,378,705		40.42
D	SERVICES		54,456,021	193.45
	D10 Conveying	538,300		1.91
	D20 Plumbing	8,511,470		30.24
	D30 HVAC	20,584,688		73.13
	D40 Fire Protection	2,548,421		9.05
	D50 Electrical	22,273,143		79.12
E	FITTINGS & FIXED EQUIPMENT		8,236,652	29.26
	E10 Equipment	3,995,174		14.19
	E20 Furnishings	4,241,478		15.07
F	SPECIAL CONSTRUCTION & DEMOLITION		4,282,382	15.21
	F10 Special Construction	-		-
	F20 Selective Building Demolition	4,282,382		15.21
G	SITWORK		36,306,278	128.97
	G10 Site Preparation	9,844,090		34.97
	G20 Site Improvements	12,981,873		46.12
	G30 Site Mechanical Utilities	9,192,296		32.65
	G40 Site Electrical Utilities	4,288,020		15.23
	G90 Other Site Construction	-		-
TOTAL DIRECT COST		\$ 184,352,442	184,352,442	654.89



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COST SUMMARY		Size	281,500 GSF
		Including	New
			281,500 GSF
		NEW CONSTRUCTION	
		Subtotal Trade	Total
			Cost/sf
Design Contingency	3.00%		5,531,000
Escalation	1.50%		2,766,000
SDI - Non-Trade Contracts	1.40%		2,580,934
Subtotal - Direct Construction Cost + Contingencies			195,230,376
			693.54
CM Contingency	2.50%	% Per CM	4,880,759
General Conditions, CM	5.38%	Lump Sum	10,510,299
General Requirements, CM	3.82%	Lump Sum	7,457,060
Subtotal - Direct Construction Cost + Contingencies			218,078,495
			774.70
Builder's Risk Insurance	0.243%	% Per CM	475,000
General Liability Insurance	1.100%	% Per CM	2,398,863
Performance and Payment Bond	0.731%	% Per CM	1,594,154
Subtotal - Direct Construction Cost + Contingencies			222,546,512
			790.57
CM Fee	2.00%	% Per CM	4,450,930
Pre-GMP Bid Package # 01 (Enabling & Sitework)			12,557,816
TOTAL ESTIMATED CONSTRUCTION COST			\$ 239,555,258
			851.00 /GSF



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ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
	A		SUBSTRUCTURE					
1	A10		FOUNDATIONS					
2		A1010	Standard Foundations	2,654	cy			
3			Div 031000 Concrete Formwork					
4			F04, footing, 04 x 04 x 02'	6	EA			
5			Formwork	192	sf	17.00	3,264	
6			Concrete materials	8	cy	168.00	1,344	
7			70 - lbs/cy	1	tn	3,400.00	3,400	
8			Concrete, pour-strip	16	hr	190.00	3,040	
9			F06, footing, 06 x 06 x 02'	35	EA			
10			Formwork	1,680	sf	17.00	28,560	
11			Concrete materials	94	cy	168.00	15,792	
12			70 - lbs/cy	4	tn	3,400.00	13,600	
13			Concrete, pour-strip	141	hr	190.00	26,790	
14			F07, footing, 07 x 07 x 02'	59	EA			
15			Formwork	3,304	sf	17.00	56,168	
16			Concrete materials	215	cy	168.00	36,120	
			80 - lbs/cy	9	tn	3,400.00	30,600	
18			Concrete, pour-strip	323	hr	190.00	61,370	
19			F08, footing, 08 x 08 x 02'	20	EA			
20			Formwork	1,280	sf	17.00	21,760	
21			Concrete materials	95	cy	168.00	15,960	
22			80 - lbs/cy	4	tn	3,400.00	13,600	
23			Concrete, pour-strip	143	hr	190.00	27,170	
24			F09, footing, 09 x 09 x 02'	122	EA			
25			Formwork	8,784	sf	17.00	149,328	
26			Concrete materials	732	cy	168.00	122,976	
27			80 - lbs/cy	30	tn	3,400.00	102,000	
28			Concrete, pour-strip	1,098	hr	190.00	208,620	
29			F10, footing, 10 x 10 x 02'	28	EA			
30			Formwork	2,240	sf	17.00	38,080	
31			Concrete materials	208	cy	168.00	34,944	
32			80 - lbs/cy	9	tn	3,400.00	30,600	
33			Concrete, pour-strip	312	hr	190.00	59,280	
34			FA, footing, Varied x 02'	2,707	SF			
35			Formwork	1,716	sf	17.00	29,172	
36			Concrete materials	201	cy	168.00	33,768	
37			80 - lbs/cy	9	tn	3,400.00	30,600	
38			Concrete, pour-strip	302	hr	190.00	57,380	
39			FA, footing, for site wall	937	SF			
40			Formwork	528	sf	17.00	8,976	
41			Concrete materials	70	cy	168.00	11,760	
42			80 - lbs/cy	3	tn	3,400.00	10,200	
43			Concrete, pour-strip	105	hr	190.00	19,950	
44			P01, concrete pier, 02 x 02 x 03'	129	EA			
45			Formwork	1,548	sf	17.00	26,316	
46			Concrete materials	29	cy	168.00	4,872	



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NEW CONSTRUCTION					BUILDING AREA	281,500 GSF	NEW CONSTRUCTION			
Description					Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
47			70 - lbs/cy	2	tn	3,400.00	6,800			
48			Concrete, pour-strip	44	hr	190.00	8,360			
49			Elev Pit # 01	1	ea		-			
50			Formwork/Edgework	384	sf	17.00	6,528			
51			Concrete materials, matt slab	4	cy	168.00	672			
52			Concrete materials, walls	5	cy	168.00	840			
53			80 - lbs/cy	1	tn	3,400.00	3,400			
54			Concrete, pour-finish	18	hr	190.00	3,420			
55			Elev Pit # 02	1	ea		-			
56			Formwork/Edgework	432	sf	17.00	7,344			
57			Concrete materials, matt slab	4	cy	168.00	672			
58			Concrete materials, walls	8	cy	168.00	1,344			
59			80 - lbs/cy	1	tn	3,400.00	3,400			
60			Concrete, pour-finish	27	hr	190.00	5,130			
61			Foundation wall, 04 x 12"	1,322	lf					
62			Formwork	10,576	sf	-	-			
63			Concrete materials	196	cy	168.00	32,928			
64			80 - lbs/cy	8	tn	3,400.00	27,200			
65			Concrete, pour-strip	294	hr	190.00	55,860			
66			Foundation wall, 04 x 15"	834	lf					
67			Formwork	6,672	sf	17.00	113,424			
68			Concrete materials	155	cy	168.00	26,040			
69			70 - lbs/cy	6	tn	3,400.00	20,400			
70			Concrete, pour-strip	233	hr	190.00	44,270			
71			Foundation wall, 04 x 16"	320	lf					
72			Formwork	2,560	sf	-	-			
73			Concrete materials	64	cy	168.00	10,752			
74			80 - lbs/cy	3	tn	3,400.00	10,200			
75			Concrete, pour-strip	96	hr	190.00	18,240			
76			Foundation wall, 04 x 21"	187	lf					
77			Formwork	1,496	sf	-	-			
78			Concrete materials	49	cy	168.00	8,232			
79			80 - lbs/cy	2	tn	3,400.00	6,800			
80			Concrete, pour-strip	74	hr	190.00	14,060			
81			Foundation wall, 05 x 21"	68	lf					
82			Formwork	680	sf	-	-			
83			Concrete materials	23	cy	168.00	3,864			
84			80 - lbs/cy	1	tn	3,400.00	3,400			
85			Concrete, pour-strip	35	hr	190.00	6,650			
86							-			
87			Footings under CMU partitions, 08" wall	4,580	lf		-			
88			Formwork/Edgework, 01 x 2.75'	9,160	sf	17.00	155,720			
89			Concrete materials	467	cy	168.00	78,456			
90			60 - lbs/cy	15	tn	3,400.00	51,000			
91			Concrete, pour-finish	467	hr	190.00	88,730			
92							-			
93			Footings under CMU partitions, 12" wall	235	lf		-			
94			Formwork/Edgework, 01 x 03'	470	sf	17.00	7,990			
95			Concrete materials	27	cy	168.00	4,536			



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ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
96		60 - lbs/cy	1	tn	3,400.00	3,400			
97		Concrete, pour-finish	27	hr	190.00	5,130			
98									
99		Concrete, other work							
100		Base plates, install	384	hr	190.00	72,960			
101		Maintenance building footings - concrete	14	cy	780.00	10,920			
102		Maintenance building footings - Exc. And backfill	200	cy	34.00	6,800			
103						-			
104		Div 070001 Waterproofing							
105		Waterproofing, foundation perimeter	10,680	sf	5.00	53,400			
106						-			
107		Div 072000 Insulation Systems							
108		R-10 insulation board at foundation wall and 3' to perimeter of slab	14,574	sf	4.20	61,211			
109						-			
110		Div 31 Earthwork for Foundation work	-						
111		Excavation							
112		Excavate footings at exterior	5,414	cy	30.00	162,420			
113		Excavate footings at interior	8,380	cy	30.00	251,400			
114		Excavate for foundation	5,141	cy	30.00	154,230			
115		Excavate for elevator pit	117	cy	40.00	4,680			
116		E/B for interior footing systems	2,036	cy	49.00	99,764			
117		Disposal							
118		Disposal of spoil to heap/backfill	19,052	cy	15.00	285,780			
119		Backfill-Imports							
120		Stockpile and reinstall backfill at footings/foundations	15,514	cy	17.00	263,738			
121		Structural fill under footings, 3/4" crushed stone, deposited and compacted in layers (1.4 tons per CY)	1,569	cy	60.00	94,124			
122		Earthwork, Other							
123		Non-woven Geotextile fabric under stone including preparing subgrade-Modified	152,226	sf	0.60	91,336			
124		Dewatering for bldg work	210	dy	500.00	105,000			
125		Dewatering- Open sump pumping- balance of site	210	dy	550.00	115,500			
126		Under slab drainage per geotech narrative and drawing- 6" perforated PVC or HDPE pipe	2,300	lf	35.00	80,500			
127		Under slab excavate and backfill for utilities	3,800	cy	45.00	171,000			
128		Footing Drains at all foundations	2,650	lf	30.00	79,500			
129									
130		Sub Total : Standard Foundations				4,346,815			
131									
132	A1020	Special Foundations							
133		No work							
134									
135		Sub Total : Special Foundations				-			
136									
137	A1030	Slab On Grade	3,070	cy total					
138		Div 03 Concrete Flatwork							
139		Slab on Grade, 05"	96,410	sf		-			
140		Formwork/Edgework	96,410	sf	1.25	120,513			



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
141		Concrete materials	1,490	cy	168.00	250,320			
142		Concrete mesh	96,410	sf	1.00	96,410			
143		Concrete, pour-finish	1,863	hr	190.00	353,970			
144		Concrete, control joints	96,410	sf	1.00	96,410			\$9.52 /SF SOG
145						-			
146		Slab on Grade, 06"	27,020	sf		-			
147		Formwork/Edgework	27,020	sf	1.25	33,775			
148		Concrete materials	510	cy	168.00	85,680			
149		Concrete mesh	27,020	sf	1.00	27,020			
150		Concrete, pour-finish	638	hr	190.00	121,220			
151		Concrete, control joints	27,020	sf	1.00	27,020			\$10.91 /SF SOG
152						-			
153		Slab on Grade, 08"	28,243	sf		-			
154		Formwork/Edgework	28,243	sf	1.25	35,304			
155		Concrete materials	700	cy	168.00	117,600			
156		Concrete mesh	28,243	sf	1.00	28,243			
157		Concrete, pour-finish	875	hr	190.00	166,250			
158		Concrete, control joints	28,243	sf	1.00	28,243			\$13.30 /SF SOG
159						-			
160		Slab on Grade, 12"	553	sf		-			
161		Formwork/Edgework	553	sf	1.25	691			
162		Concrete materials	30	cy	168.00	5,040			
163		Concrete mesh	553	sf	1.00	553			
164		Concrete, pour-finish	38	hr	190.00	7,220			
165		Concrete, control joints	553	sf	1.00	553			\$25.42 /SF SOG
166						-			
167		Thickened slab under CMU partitions	4,580	lf		-			
168		Formwork/Edgework, 01 x 01'	4,580	sf	6.00	27,480			
169		Concrete materials	340	cy	168.00	57,120			
170		Reinforcing	4,580	sf	6.00	27,480			
171		Concrete, pour-finish	340	hr	190.00	64,600			
172						-			
173		Div 03 Concrete Flatwork, other work							
174		Concrete survey/layouts	480	hr	160.00	76,800			
175		Maintenance building pad (SOG)	4,000	sf	16.00	64,000			
176		Maintenance building subgrade at slab	4,000	sf	4.00	16,000			
177						-			
178		Div 07 Vapor Barrier	152,226	sf					
179		Vapr barrier under slabs	152,226	sf	1.40	213,116			
180		Elevator Pits- Waterproofing	2	ea	7,800.00	15,600			
181						-			
182		Div 31 Earthwork for SOG work	152,226	sf					
183		Compaction for slab work	152,226	sf	1.50	228,339			
184		Grading and Fine grading	152,226	sf	0.75	114,170			
185		Gravel base, 12"	5,640	cy	42.00	236,880			
186									
187		Sub Total : Slab On Grade				2,743,619			
188									
189	A20	BASEMENT CONSTRUCTION							



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
190	A2010	Basement Excavation						
191		No work this section						
192								
193		Sub Total : Basement Excavation					-	
194								
195	A2020	Basement Walls						
196		No work this section						
197								
198		Sub Total : Basement Walls					-	
199								
200		SUBTOTAL FOR - SUBSTRUCTURE					End of Trade \$ 7,090,434	
201								
202	B	SHELL						
203	B10	SUPERSTRUCTURE						
204	B1010	Floor Construction	1,769	cy total				
205			1,185	tn total				
206		Div 05 Structural Steel Framing						
207		Floor structure steel - beams, brace frames, columns	1,096	tn	4,800.00		5,260,800	
208		Lateral loading at steel components	40	tn	4,800.00		192,000	
209		Curtain wall truss	3	tn	11,000.00		33,000	
210		HSS 16 cols. @ Curtain wall	4	tn	4,800.00		17,928	
211		C channels at mezzanine	20	tn	4,800.00		96,000	
212		Misc. metals at stage and rigging- ss C1030	22	tn	4,800.00		105,600	
213		Moment Connections	40	ea	650.00		26,000	
214		Div 05 Metal Decking						
215		Metal floor decking (2" 18g)	81,108	sf	6.00		486,648	
216		Metal floor decking (3" 20g)	48,946	sf	7.00		342,622	
217							-	
218		Div 055 Misc Metals						
219		C channels at mezzanine	20	tn	5,200.00		104,000	
220		Misc. metals at stage and rigging- ss C1030	22	tn	4,900.00		107,800	
221							-	
222		Div 03 Concrete for SOD work						
223		Concrete material- normal weight concrete 5-1/4"	1,315	cy	168.00		220,920	
224		Concrete material- normal weight concrete 3"	454	cy	168.00		76,272	
225		Concrete place & finish .incl pump	130,054	sf	7.00		910,378	
226		Mesh rebar (15% lap)	130,054	sf	2.00		260,108	
227		2" Topping slabs at precast planks	17,720	sf	8.00		141,760	
228							-	
229		Div 034 Precast Concrete						
230		Precast Planks @ Mezzanines- 10" dp prestressed planks	17,720	sf	23.00		407,560	
231							-	
232		Div 071 Insulation						
233		K13 Acoustic Insulation, shops	4,514	sf	12.00		54,168	
234							-	
235		Div 078 Fireproofing						
236		Spray Fireproofing at areas where required	130,054	sf	3.00		390,162	
237		Intumescent fireproofing at exposed Structural steel	8,400	sf	18.00		151,200	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
238							-	
239		Div 079 Caulking						
240		Expansion Joints w/ cover	550	lf	170.00		93,500	
241		Fire Stopping at floor penetrations	290	hr	248.00		71,920	
242								
243		Sub Total : Floor Construction					9,550,346	
244								
245	B1020	Roof Construction	1,124	tn total				
246		Div 05 Structural Steel Framing						
247		Structural framing at roof areas	1,066	tn	4,800.00		5,116,800	
248		Structural steel truss	37	tn	8,500.00		315,350	
249		RTU Roof Screen	12	tn	5,200.00		62,920	
250		Galvanized dunnage	8	tn	9,000.00		76,275	
251							-	
252		Div 055 Misc Metals						
253		Metal roof decking (3" 20g)	116,316	sf	8.00		930,528	
254		Acoustic deck, gym, cafeteria, auditorium	42,114	sf	14.00		589,596	
255							-	
256		Div 03 Concrete for SOD work						
257		6" Concrete slab at RTUs (deck and framing included above)	2,740	sf	18.00		49,320	
258							-	
259		Div 078 Fireproofing						
260		Spray Fireproofing at areas where required	158,430	sf	2.00		316,860	
261							-	
262		Div 079 Caulking						
263		Expansion Joints w/ cover	124	lf	170.00		21,080	
264		Fire Stopping at roof deck penetrations	60	hr	248.00		14,880	
265								
266		Sub Total : Roof Construction					7,493,609	
267								
268								
269	B20	EXTERIOR CLOSURE						
270	B2010	Exterior Walls						
271		Scaffolding and lifts for building envelope	128,000	sf			incl w/trades	
272		Lintels and finishes to ext. walls	186	tn	3,800.00		706,800	
273		Mockups for exterior wall assemblies	1	ls	150,000.00		150,000	
274								
275		<u>CMU veneer/ CMU backup</u>					-	
276		Scaffolding and lifts for masonry	8,070	sf	9.00		72,630	
277		Large Scale CMU Veneer (8" or 12" backup)	5,190	sf	39.00		202,410	
278		Misc. reveals and returns	600	sf	39.00		23,400	
279		Fluid applied Vapor barrier	5,323	sf	8.00		42,584	
280		Flashing weeps-ties	5,323	sf	2.00		10,646	
281		12" CMU Backup at Exterior Walls- Cells grouted and reinforced at work areas, bond beams etc.	3,018	sf	36.00		108,648	
282								
283		<u>Granite Veneer to Concrete backup (Concrete taken with foundations)</u>					-	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
284		Granite Veneer panel at main entrance	514	sf	125.00	64,250		
285		Granite Veneer at base of wall, 2'-4" h (8" below 1st floor slab)	1,766	sf	125.00	220,750		
286		Metal Stud Backup - 6" LGMF	2,280	sf	14.00	31,920		
287		5/8" Wall sheathing	2,280	sf	7.00	15,960		
288		Fluid Applied Air/Vapor barrier	2,280	sf	8.00	18,240		
289		4" rigid insulation	2,280	sf	6.00	13,680		
290		5/8" Wall sheathing	2,280	sf	7.00	15,960		
291								
292		<u>Wall System 3- Precast Panels</u>	1	budget	3,179,000.00	3,179,000		budget provided
293		Insulated precast panels - various sizes and shapes (poor repetition)	31,350	sf		incl above		
294		Misc. Precast panels/ blank offs etc.	1	ls	-	incl above		
295		Crane and rigging for precast panels	1	ls	-	incl above		
296								
297		<u>Vertical Metal Panels</u>				-		
298		Vertical ACM Panels incl inclined panels at Courtyard- with metal stud backup	7,531	sf	75.00	564,825		Consigli has it w/roofing
299		Misc. Returns at panel	1	ls	46,100.00	46,100		
300		Metal Stud Backup - 6" LGMF	7,531	sf	14.00	105,434		
301		5/8" Wall sheathing	7,531	sf	7.00	52,717		
302		Fluid applied Vapor barrier	7,531	sf	8.00	60,248		
303		3" rigid insulation	7,531	sf		incl w/metal panel		
304		5/8" Wall sheathing	7,531	sf	7.00	52,717		
305		Wall blocking in exterior walls	7,531	sf	5.00	37,655		
306		Premium for inclined panels at Courtyard	1	ls	25,000.00	25,000		
307						-		
308		<u>Horizontal Insulated Metal Panels</u>				-		
309		Horizontal Insulated Metal Panels	23,581	sf	70.00	1,650,670		
310		Backup to Wall Systems (ACM Wall Panels 2)						
311		Metal Stud Backup - 6" LGMF	23,581	sf	15.00	353,715		
312		1-5/8" LGMF for 4" insulated metal wall panels	23,581	sf	3.00	70,743		
313		Wall blocking in exterior walls	23,581	sf	5.00	117,905		
314						-		
315		<u>Flat Lock Metal Tiles</u>				-		
316		Flat Lok Metal panel	3,671	sf	110.00	403,810		
317		Misc. Returns at panel	1	ls	49,700.00	49,700		
318		Metal Stud Backup - 6" LGMF	3,671	sf	14.00	51,394		
319		5/8" Wall sheathing	3,671	sf	7.00	25,697		
320		Fluid Applied Air/Vapor barrier	3,671	sf	8.00	29,368		
321		4" rigid insulation	3,671	sf	6.00	22,026		
322		5/8" Wall sheathing	3,671	sf	7.00	25,697		
323		Wall blocking in exterior walls	3,671	sf	5.00	18,355		
324								
325		Miscellaneous vapor barrier & flashings @ openings	13,000	lf	9.00	117,000		
326		Caulking and Sealants at exterior	2,430	hr	290.00	704,700		
327		Safety railings-at roof						
328		Safety railings- 3'-6" High	198	lf	250.00	49,500		
329								



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ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
Sub Total : Exterior Walls							9,511,854	
330								
331								
332	B2020	Exterior Windows						
333		Windows Type A 2'-0" x 6'-0" (16)		192	sf	215.00	41,280	
334		Windows Type B 2'-0" x 6'-0" (12)		144	sf	215.00	30,960	
335		Windows Type C 2'-0" x 6'-0" (9)		108	sf	215.00	23,220	
336		Windows Type D 2'-0" x 6'-0" (102)		1,224	sf	215.00	263,160	
337		Windows Type E 2'-0" x 6'-0" (17)		204	sf	215.00	43,860	
338		Windows Type F 2'-0" x 4'-8" (1)		9	sf	215.00	1,935	
339		Windows Type G 50'-7" x 6'-0" (1)		304	sf	215.00	65,360	
340		Windows Type H 8'-1" x 6'-0" (1)		49	sf	215.00	10,535	
341		Windows Type J 224'-1" x 6'-0" (1)		1,345	sf	215.00	289,175	
342		Windows Type K 10'-4" x 6'-0" (1)		62	sf	215.00	13,330	
343		Windows Type L 67'-10 1/2" x 6'-0" (1)		407	sf	215.00	87,505	
344		Windows Type M 175'-10" x 6'-0" (1)		1,055	sf	215.00	226,825	
345		Windows Type R 28'-8" x 6'-0" (1)		172	sf	215.00	36,980	
346		Window type TW1-TW21; Irregular shaped small window units at courtyard-various sizes		1,771	sf	215.00	380,765	
347								
348		Curtain Wall:					-	
349		Insulated Glass/Aluminum Curtain wall general		19,733	sf	230.00	4,538,590	
350		Inclined Curtain wall at Courtyard		2,636	sf	225.00	593,100	
351		Insulated translucent wall panel system with operable sashes - new energy code Types P1 through P9		3,564	sf	150.00	534,600	
352		Wood Blocking		10,549	lf	12.00	126,588	
353		Backer rod and double sealant		10,549	lf	7.00	73,843	
354		Louvers (318 SF indicated on elevations)		318	sf	250.00	79,500	
355		Continuous 5" steel pipe and tie-back hardware at inclined curtain wall		55	lf	150.00	8,250	
356								
357		Sub Total : Exterior Windows					7,469,361	
358								
359	B2030	Exterior doors						
360		<u>Aluminum Entrance Doors</u>						
361		AL2 Vestibule doors, Aluminum, double doors (3' x 8' door size), Outside doors (A100.1, A100.2, A100.3 B117.1, S5.2, S6.2)		6	ea	12,000.00	72,000	
362		AL2 Vestibule doors, Aluminum, double doors (3' x 7' door size), Outside doors (A163.1, A184.1, C144.2)		3	ea	11,000.00	33,000	
363		AL2 Vestibule doors, Aluminum, double doors (3' x 8' door size), Inside doors (A100.4, A100.5, A100.6 B117.2)		4	ea	10,000.00	40,000	
364		AL2 Vestibule doors, Aluminum, double doors (3' x 7' door size), Outside doors (A163.2, A184.2, C144.1)		3	ea	9,000.00	27,000	
365		AL2 Exit door, Aluminum, double doors (3-3" x 7' door size), Outside doors (no lobby) (A-191)		1	ea	11,000.00	11,000	
366		AL2 Exit door, Aluminum, single door (3' x 8' door size), Outside doors (no lobby) (B-134.2, C103.2)		2	ea	7,000.00	14,000	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
367			AL2 Exit door, Aluminum, single door (4' x 8' door size), Outside doors (no lobby) (D105.2)	1	ea	7,000.00	7,000	
368			AL2 Exit door, Aluminum, double door (3' x 7' door size), Outside doors (no lobby) (D114.1)	1	ea	11,000.00	11,000	
369			<u>Overhead doors</u>					
370			Stage Overhead door -18' Wide x 14' High with operator (A134)	1	ea	25,000.00	25,000	
371			Workshop Overhead door 12'-0" x 14'H (C138.2, C140.1, C142.2, C143.2, E100.2, E103.4, E116.1, E125.3)	8	ea	18,000.00	144,000	
372			Workshop Overhead door 13-0" x 14'H (E103.3)	1	ea	20,000.00	20,000	
373			Receiving Overhead door 12-0" x 10'H (A183.2)	1	ea	12,500.00	12,500	
374			Misc. metals for overhead doors	9	tn	7,500.00	67,500	
375			<u>Aluminum Flush Doors/Metal Frame</u>				-	
376			Type F, Alum door, single doors (3' x7') with metal frame (A300.2)	1	ea	6,000.00	6,000	
377			<u>Wood Door Hollow Metal Frame (incl. install)</u>				-	
378			Type F, Wood door, double doors (6' x7') with metal frame (A183)	1	ea	4,500.00	4,500	
379			<u>Hollow Metal Door and Frame (incl. install)</u>				-	
380			Type F, HM door, single doors (3' x7') with metal frame (A162, A165, C138.1, C140.2, C142.1, C143.3, A302.2, E116.2, E125.2, E103.2, E103.5, E100.1)	13	ea	3,200.00	41,600	
381			Type F, HM door, single doors (3'-6" x7") with metal frame (D107.1)	1	ea	3,500.00	3,500	
382			Type F, HM door, double doors (3' x7') with metal frame (A161, A182.2, A186.2)	3	ea	6,400.00	19,200	
383			Doors to roofs at upper levels			included above		
384			Security folding screens at doors in trade areas	9	ea	3,000.00	27,000	
385			Additional Security requirements at entrances- weapon control	1	ls	75,000.00	75,000	
386								
387			Sub Total : Exterior doors				660,800	
388								
389								
390	B30		ROOFING					
391		B3010	Roof Coverings					
392			<u>Roofing Unit price components</u>					
393			PVC roof on 6-1/2" insulation		Below		-	
394			Substrate board		incl.		-	
395			Cover board		incl.		-	
396			Vapor barrier		incl.		-	
397			Misc. roof finishes/flashing/edge		incl.		-	
398			Work around roof drains		incl.		-	
399			Roofing Unit price					
400			Roofing system type A & B	159,052	sf	35.00	5,566,820	canopies included
401			Walkway pads at rooftop equipment	4,250	sf	11.00	46,750	
402			RTU concrete pad and curb	2,750	sf		w/Structural	as shown on arch drawings
403			Roof drain, flashing	95	ea	350.00	33,250	
404			Scupper, flashing	4	ea	550.00	2,200	
405			PV Array premium		excluded		-	
406			Vegetated roof premium (extent unclear) Hatching, but no notes found.	1	excluded		-	
407			Roof Blocking	49,700	lf	8.00	397,600	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
408								
409			Sub Total : Roof Coverings				6,046,620	
410								
411	B3020		Roof Openings & Miscellaneous					
412			Roof Expansion joints	See Roof Construction			-	
413			Safety railings- 3'-6" High	Included with walls			-	
414			Soffit at Vest. 145 (see 8/A2.1.2) EL. 113'-9", N Elev. (M.9 - N.8)- Metal Panel	290	sf	120.00	34,800	
415			ACM Soffits (West el) Ht 112' (50 sf ea x 6)	300	sf	90.00	27,000	
416			ACM Canopy- (rectangle) el 112', W Elev. (9-11)	70	sf	120.00	8,400	
417			ACM Soffit- 3' wide (el 112', W & N Elev (6.4- 3, and A.4-D)	131	lf	250.00	32,750	
418			ACM Canopy- (rectangle) el 112', N Elev. (E4-E5 +/-)	43	sf	120.00	5,160	
419			Soffit at Vest. 163 (see 4/A2.1.3) EL. 113'-9", E Elev. (4 -3)	31	sf	90.00	2,790	
420			Soffit at Vest. 164- LMC-1 (see 1,2,3/A3.2.7) EL. 113'-9", E Elev. (5 -9)- including ACM-1 soffit	563	sf	110.00	61,930	
421			Gyp Soffit @ D.107 (see 6/A3.2.5) EL. 114'-0", S Elev. (A B)	190	sf	30.00	5,700	
422			ACM Soffit @ Vest.D114 (see 6/A3.2.5) EL. 110'-0", S Elev. (E.4 -E.6)	34	sf	120.00	4,080	
423			ACM Soffit @ Vest.C144 EL. 109'-4", E Elev. (19 -20)	41	sf	120.00	4,920	
424			Inclined ACM Cornice total 5' W See A3.2.1, and 1/A5-3-2	960	sf	120.00	115,200	
425			Horizontal ACM Cornice total 5' W See A2.1.1.and 4/A3.2.1	264	sf	120.00	31,680	
426			Cornice 2'-0" W at stair tower (2, 3, 5 & 7/A3-2-3)	163	lf	250.00	40,750	
427			RTU screen 7' h	405	lf	875.00	354,375	
428			Elevator vents	2	ea	500.00	1,000	
429			<i>Edge of roof details - flashings, terminations etc.</i>					
430			Metal roof edge/drip edge; det 1,2,4,6/A5-3-2	1,969	lf	25.00	49,225	
431			Roof/wall flashing; 2-piece metal flashing & cont. ss reglet, det 3,11/A5-3-2	3,145	lf	105.00	330,225	
432			Metal roof coping at parapet; det 5/A5-3-2	218	lf	45.00	9,810	
433								
434			Sub Total : Roof Openings & Miscellaneous				1,119,795	
435								
436			SUBTOTAL FOR - SHELL				End of Trade	\$ 41,852,385
437								
438								
439	C		INTERIORS					
440	C10		INTERIOR CONSTRUCTION					
441		C1010	Partitions, Rough Carpentry					
442			<u>Masonry Partitions</u>					
443			4. 0 CMU	3,139	SF	35.00	109,865	
444			8.0 MU	73,133	SF	36.00	2,632,788	
445			8.1 CMU	5,830	SF	36.00	209,880	
446			8.2 CMU	7,995	SF	36.00	287,820	
447			12.0 CMU	6,323	SF	38.00	240,274	
448			12.2 CMU	2,188	SF	38.00	83,144	
449			Interior Staging and lifts for CMU	98,608	SF	6.00	591,648	
450			<u>Drywall Partitions</u>					
451			F3.0 Interior Partitions	146	SF	16.00	2,336	
452			F4.0 Interior Partitions	14,859	SF	16.00	237,744	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
453		F.4A Interior Partitions	1,068	SF	16.00	17,088		
454		F6.0 Interior Partitions	51,371	SF	18.00	924,678		
455		F6.0A Interior Partitions	53,285	SF	29.00	1,545,265		
456		G4.0 Interior Partitions	1,462	SF	29.00	42,398		
457		G6.0 Interior Partitions	57,279	SF	28.00	1,603,812		
458		G6.0A Interior Partitions	40,144	SF	29.00	1,164,176		
459		G6.0B Interior Partitions	61,926	SF	32.00	1,981,632		
460		G6.2 Interior Partitions	8,020	SF	36.00	288,720		
461		S6.2 Interior Partitions	15,102	SF	36.00	543,672		
462		<u>Interior Borrowed Lights</u>						
463		Interior borrowed lights: BL01, BL02 & BL04	335	SF	75.00	25,125		
464		Prefabricated sound isolation room with door	1,280	SF	30.00	38,400		
465		Decorative Metal & Glass Screen	112	SF	75.00	8,400		
466		<u>Interior Storefront Partitions</u>						
467		Interior Storefront partitions ISF1 thru ISF 40	2,952	SF	90.00	265,680		
468		Interior security transaction window at ISF-3, 3' wide x 4' high	12	SF	430.00	5,160		
469		<u>Interior Misc. Partitions</u>						
470		Wire Mesh Partitions @ Mezzanine	4,766	SF	80.00	381,280		
471		Wire Mesh Doors	4	EA	3,900.00	15,600		
472		Steel Guardrail @ Mezzanine	251	LF	225.00	56,475		
473		Training Booths 2x6 Fire Treated Wood Stud	6,425	SF	35.00	224,875		
474		Firestopping at top of rated partitions	1,100	LF	16.00	17,600		
475		Firestopping at horizontal conditions	1,100	HR	194.00	213,400		
476		Firestopping at vertical conditions	900	HR	194.00	174,600		
477								
478		Sub Total : Partitions, Rough Carpentry				13,933,535		
479								
480								
481	C1020	Interior Doors						
482		<u>Wood Doors</u>						
483		Type F WD Doors, Single Doors	449	EA	900.00	404,100		
484		Type F WD Doors, Single Doors - 2 hr	9	EA	900.00	8,100		
485		Type F WD Doors, Double Doors	43	EA	1,800.00	77,400		
486		Type F WD Doors, Double Doors - 2 hr	9	EA	1,800.00	16,200		
487		Type FV2 WD Doors, Single Doors w/Safety Glass	2	EA	3,500.00	7,000		
488		Type W1 Glazed WD Doors, Single Doors	12	EA	3,500.00	42,000		
489		Type W2 Glazed WD Doors, Single Doors	3	EA	3,500.00	10,500		
490		Type AL2 WD Door, Single Door	1	EA	3,500.00	3,500		
491								
492		<u>Hollow Metal Doors</u>						
493		Type F HM Doors, Single Doors	39	EA	600.00	23,400		
494		Type F HM Doors, Double	8	EA	400.00	3,200		
495		Type F HM Doors, Double - 1 ht	1	EA	400.00	400		
496		Type F HM Doors, Double - 2 hr	3	EA	400.00	1,200		
497		Type F HM Doors, Single Doors - 1 hr	2	EA	400.00	800		
498		Type F HM Doors, Single Doors - 2 hr	2	EA	400.00	800		
499		Type W2 Glazed HM, Single Doors	5	EA	400.00	2,000		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
500		Paint HM Doors	60	EA	90.00	5,400			
501									
502		<u>Hollow Metal Frames</u>							
503		Frame Type 1 to Single Doors Openings	382	EA	400.00	152,800			
504		Frame Type 1 to Double Doors Openings	60	EA	520.00	31,200			
505		Frame Type 2 to Single Doors Openings	125	EA	550.00	68,750			
506		Frame Type 2a to Single Doors Openings	5	EA	550.00	2,750			
507		Frame Type 3 to Single Doors Openings	3	EA	1,500.00	4,500			
508		Frame Type 4 to Single Doors Openings	2	EA	1,500.00	3,000			
509		Frame Type 5 to Single Doors Openings	2	EA	1,500.00	3,000			
510		Frame Type 5a to Single Doors Openings	1	EA	1,500.00	1,500			
511		Frame Type CW1 to Single Doors Openings	4	EA	2,000.00	8,000			
512		Frame Type 6b to Double Doors Openings	1	EA	1,500.00	1,500			
513		Frame Type 6c to Double Doors Openings	3	EA	1,500.00	4,500			
514									
515		<u>Aluminum Doors</u>							
516		Type AL2 Alum, Single Doors in Aluminum	11	EA	6,000.00	66,000			
517		Type AL2 Alum, Double Doors in Aluminum	11	EA	10,000.00	110,000			
518		Type Alum, Single Doors in Aluminum	8	EA	6,000.00	48,000			
519		Type F Alum, Single Doors in Aluminum	5	EA	6,000.00	30,000			
520		Type WM Alum, Double Doors in Aluminum	3	EA	10,000.00	30,000			
521									
522		<u>Hardware</u>							
523		Keyed hardware sets excluding aluminum	506	EA	1,100.00	556,600			
524		Electronic door sets	19	EA	3,000.00	57,000			
525		Firelight glazing allowance	1	LS	10,000.00	10,000			
526		Folding Glass Partition at Learning Center	297	SF	220.00	65,340			
527									
528		<u>Folding Security Doors</u>							
529		Folding Security Door @ Stair 1 - 40LF x 12 HT @ 1st & 2nd Fl.	2	EA	30,000.00	60,000			
530		Folding Security Door B160 - 10LF x 12HT @ 1st Floor	1	EA	24,000.00	24,000			
531									
532		<u>Overhead Doors</u>							
533		Overhead Door @ Stage 18LF x 10 HT	1	EA	36,000.00	36,000			
534		Overhead Door @ Serving 4LF x 12 HT	1	EA	10,000.00	10,000			
535		Overhead Door @ Receiving 11LF x 11'-8" HT	1	EA	26,000.00	26,000			
536		Overhead Door @ Various Places 12LF x 14 HT	9	EA	34,000.00	306,000			
537		Overhead Door @ Automotive Technology 13LF x 14 HT	1	EA	36,000.00	36,000			
538		Overhead Door @ Automotive Technology 14LF x 14 HT	1	EA	40,000.00	40,000			
539		Interior opening with drop down shutter (untagged) at Dishwashing A174 (4' x 4')	1	LS	2,000.00	2,000			
540		Interior opening with drop down shutter (untagged) at Culinary Arts D107 (12' x 5'-6")	1	LS	6,000.00	6,000			
541		Customize sliding door @ restaurant	1	EA	3,500.00	3,500			
542									



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
543			Sub Total : Interior Doors				2,409,940	
544								
545								
546	C1030		Specialties/Fittings					
547			<u>Fittings and Specialties Unit price Components</u>					
548			Grab Bars (42")	134	EA	230.00	30,820	
549			Waste Receptacle	108	EA	350.00	37,800	
550			Mirror 18" x 36"	46	EA	150.00	6,900	
551			Multiuse Mirror ~60" x 42" (8 ea)	168	SF	50.00	8,400	
552			Multiuse Mirror ~72" x 42" (10 ea)	210	SF	50.00	10,500	
553			Urinal Partition	3	EA	650.00	1,950	
554			Toilet Partitions - floor mounted	24	EA	1,800.00	43,200	
555			Toilet Partitions - floor mounted - ADA	14	EA	2,100.00	29,400	
556			Shower Grab Bars	9	EA	140.00	1,260	
557			Shower Grab Bars (ADA)	5	EA	250.00	1,250	
558			Shower Seat	14	EA	250.00	3,500	
559			Shower curtains, & rods	15	EA	250.00	3,750	
560			Toilet Paper Dispenser	105	EA	54.00	5,670	
561			Soap Dispenser - surface mounted	92	EA	35.00	3,220	
562			Shower curtains, hooks & rod (ADA)	7	EA	320.00	2,240	
563			Combo trash/paper towel dispenser - recessed	75	EA	990.00	74,250	
564			Lockers in Locker Rooms:					
565			Traditional 3 tier lockers (vocational) 15 x 15 x 72	32	EA	275.00	8,800	
566			Boys/Girls Lockers- ventilated 1 Tier- 12 12 x72	108	EA	400.00	43,200	
567			Boys/Girls/GN Lockers- vent 2 Tier- 12 12 x60	81	EA	245.00	19,845	
568			Boys/Girls Lockers- ventilated 2 Tier- 12 12 x72	108	EA	450.00	48,600	
569			Boys/Girls Lockers- ventilated 3 Tier- 12 12 x72	54	EA	500.00	27,000	
570			Boys/Girls Lockers- Athletic 1 Tier- 18 x 18 x 72	58	EA	420.00	24,360	
571			Boys/Girls Lockers- Ventilated 1 Tier- 15 x 15 x 72	64	EA	400.00	25,600	
572			Solid Surface Shelf	268	SF	35.00	9,380	
573			Sloped Top Lockers	351	EA	250.00	87,750	
574			Other Lockers:					
575			T3 lockers at trade area	60	EA	275.00	16,500	
576			T2 lockers in Culinary area	36	EA	260.00	9,360	
577			T3 lockers at 2nd/3rd floor	77	EA	275.00	21,175	
578			T2 lockers at 2nd/3rd floor	109	EA	260.00	28,340	
579			T2 lockers at trade area	90	EA	260.00	23,400	
580			T1 lockers at trade area	35	EA	260.00	9,100	
581			Unlabeled lockers at trade area	53	EA	250.00	13,250	
582			Benches in Locker Rooms:					
583			Movable Bench 4'	8	EA	1,400.00	11,200	
584			Fixed Bench 5'	1	EA	1,750.00	1,750	
585			Fixed Bench 8'	14	EA	2,800.00	39,200	
586			Wall mounted accessories:					



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
587		Markerboards 4' x 4'	2	EA	300.00	600		
588		Markerboards 6' x 4'	17	EA	650.00	11,050		
589		Markerboards 8' x 4'	65	EA	750.00	48,750		
590		Markerboards 10' x 4'	13	EA	1,000.00	13,000		
591		Tackboards 4' x 4'	54	EA	300.00	16,200		
592		Tackboards 6' x 4'	7	EA	450.00	3,150		
593		Wall Monitor (Blocking Only)	45	EA	250.00	11,250		
594		Marker Wall, 8' H @ 2 locations	175	EA	35.00	6,125		
595		Cubicle curtain & track	388	LF	55.00	21,340		
596		Decorative Metal and Glass Screen @ Restaurant	112	SF	75.00	8,400		
597		Access Ladders to Mezzanines, per narrative	9	EA	8,000.00	72,000		
598		Mirror @ Fitness Room	158	SF	50.00	7,900		
599		Mirror @ Weight Room	205	SF	50.00	10,250		
600		Wall Ladder @ Mezzanine	3	EA	2,500.00	7,500		
601		Uni-Strut Grid	1,324	SF	75.00	99,300		
602		Backer Panels at IT closets etc.	281,500	SF	0.20	56,300		
603		Miscellaneous metals, brackets supports etc.	281,500	SF	1.10	309,650		
604		Misc. Rough carpentry and OSHA protection	281,500	SF	1.50	422,250		
605		Finish carpentry and reveals	281,500	SF	0.50	140,750		
606		Miscellaneous sealants	281,500	SF	0.80	225,200		
607		Signage, interior ADA	72	EA	190.00	13,680		
608		Signage, interior room	400	EA	240.00	96,000		
609		Signage, interior plaque/graphics	15	EA	2,800.00	42,000		
610		Exterior signage	1	LS	50,000.00	50,000		
611		Wall Protection	281,500	SF	0.25	70,375		
612		Fire Extinguishers and Cabinets	20	EA	790.00	15,800		
613		Other specialties and fittings based on instructional spaces	281,500	SF	0.44	125,000		
614		Basketball backboard support brackets/Steel (6)	1	LS	10,000.00	10,000		
615		Misc. support for large Projection Screens, Gym Curtain, Operable partitions etc.	1	LS	20,000.00	20,000		
616		Fireguard Support First floor	1	LS	25,000.00	25,000		
617		Fireguard Support Second Floor	1	LS	12,000.00	12,000		
618		Fireguard Support Third Floor	1	LS	7,000.00	7,000		
619						-		
620		Access Platform including Tube steel support and footings, over plumbing work booths	1,200	SF	65.00	78,000		
621		Steel Stairs to Access Platform incl. handrails	1	LS	12,500.00	12,500		
622		Handrails at access platform	100	LF	75.00	7,500		
623		Steel Channel to Precast and painted Guardrail at other mezzanines	723	LF	200.00	144,600		
624		Access Ladders to Mezzanines, per narrative	9	EA	8,000.00	72,000		
625		Access gates at auditorium glass panels	2	EA	2,000.00	4,000		
626		Ships ladders to access Electrical rooms on Mezzanine Level	3	EA	8,000.00	24,000		
627		Roof Access/Ships Ladders	1	LS	10,000.00	10,000		
628								
629		Sub Total : Specialties/Fittings				3,062,340		
630								
631		SUBTOTAL FOR - INTERIOR CONSTRUCTION					\$ 19,405,815	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
632								
633	C20		STAIRCASES					
634		C2010	Stair Construction					
635			Concrete work at stairs					
636			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #1) - Levels 1- 3	40	RISER	250.00	10,000	
637			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2, #4, #5, #6, #7, #8) - Levels 1- 2	200	RISER	250.00	50,000	
638			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2) - Levels 2- 3	16	RISER	250.00	4,000	
639			Misc. metals at stairs		RISER		-	
640			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #1) - Levels 1- 3	40	RISER	1,100.00	44,000	
641			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2, #4, #5, #6, #7, #8) - Levels 1- 2	200	RISER	800.00	160,000	
642			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2) - Levels 2- 3	16	RISER	700.00	11,200	
643			Landings	2,000	SF	65.00	130,000	
644			Stair Guard Rails	200	LF	300.00	60,000	
645			Stair Handrails	220	LF	100.00	22,000	
646			Special Stairs 3, 10'-6" wide- slow rise x 35 treads	35	RISER	2,500.00	87,500	
647			Landing	47	SF	100.00	4,700	
648			Stair Guard Rails	40	LF	420.00	16,800	
649			Stair Handrails	46	LF	120.00	5,520	
650			Grand Stairs, 14'-6" Average Width, Going 4', Rise 1'-6"	13	RISER	7,700.00	100,100	
651			Landing	101	SF	100.00	10,100	
652			Stair Guard Rails at center/one end	48	LF	400.00	19,200	
653			Glass Balustrade and rail at side	48	LF	600.00	28,800	
654			Glass balustrade and steel handrails at upper auditorium	148	LF	800.00	118,400	
655			Glass balustrade and steel handrails at 2nd floor (faceted)	173	LF	1,200.00	207,600	
656			Firewatch/Temp. Stair	1	LS	50,000.00	50,000	
657								
658			Sub Total : Stair Construction				1,139,920	
659								
660		C2020	Stair Finishes					
661			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2, #4, #5, #6, #7, #8) - Levels 1- 2- rubber	144	RISER	200.00	28,800	
662			Concrete Filled Metal Pan Stairs- Width 5-9" (Stairs #2) - Levels 2- 3	16	RISER	100.00	1,600	
663			Landings- rubber	1,000	SF	20.00	20,000	
664			Special Stairs 3, 10'-6" wide- slow rise x 35 treads	35	RISER	600.00	21,000	
665			Landing	47	SF	30.00	1,410	
666			Grand Stairs, 14'-6" Average Width, Going 4', Rise 1'-6"- with illuminated risers	13	RISER	4,000.00	52,000	
667			Landing	101	SF	40.00	4,040	
668			Paint Stairs and Railings	1	LS	75,000.00	75,000	
669								
670			Sub Total : Stair Finishes				203,850	
671								
672			SUBTOTAL FOR - STAIRCASES				\$ 1,343,770	
673								
674	C30		INTERIOR FINISHES					
675		C3010	Wall Finishes					



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
676			Wall Finishes @ Toilets:					
677			Ceramic Mosaic Tile (CMT-2)	6,523	SF	30.00	195,702	
678			Ceramic Mosaic Tile (CMT-3)	14,051	SF	30.00	421,520	
679			Ceramic Mosaic Tile (CMT-6)	6,816	SF	30.00	204,495	
680			Ceramic Tile Pattern CTP-1a	8,384	SF	30.00	251,520	
681			Ceramic Tile Pattern CTP-1b	1,857	SF	30.00	55,710	
682			Ceramic Tile Pattern CTP-1c	6,278	SF	30.00	188,340	
683			Ceramic Tile Pattern CTP-3b	162	SF	30.00	4,860	
684			Ceramic Tile Pattern CTP-5	157	SF	30.00	4,710	
685			Ceramic Tile Pattern CTP-7	1,122	SF	30.00	33,660	
686			TPT-1/TZB	10,514	SF	40.00	420,560	
687			TPT-2/TZB	4,549	SF	40.00	181,940	
688			TPT-3/TZB	466	SF	40.00	18,620	
689			This Porcelain Tile	927	SF	40.00	37,080	
690			TPT-1 Large Format Thin Porcelain Tile	301	SF	40.00	12,040	
691			Epoxy Paint (EP)	50,005	SF	1.25	62,506	
692			Epoxy Paint (EP) @ CMU	71,038	SF	1.75	124,317	
693			Flexible stainless Steel Safety netting	8,410	SF	21.00	176,610	
694			Customized Graphic Vinyl Wall Covering	173	SF	15.00	2,595	
695			Linear Metal Plank Wall Panel System @ Restaurant	512	SF	125.00	64,000	
696			Paint CMU Walls	46,344	SF	1.25	57,930	
697			Paint Gwb Walls	222,919	SF	1.10	245,211	
698			Wood Fiber Acoustic Panels @ Gym	800	SF	16.00	12,800	
699			Large Format Thin Porcelain tile with metal trim	2,791	SF	40.00	111,640	
700			CT-5 Bullnose Tile	2,098	LF	35.00	73,430	
701			Acoustic wall panels at Commons	1,419	SF	50.00	70,950	
702			Custom wall Coverings- corridor/studies (area measure)	1,300	SF	5.00	6,500	
703			Custom wall Graphics (area measure)	947	SF	25.00	23,675	
704								
705			Sub Total : Wall Finishes				3,062,921	
706								
707	C3020		Floor Finishes					
708			CMP-1 through CMP-10 Ceramic Mosaic Flooring @ Toilet	6,894	SF	24.00	165,456	
709			CPT-1,2&3 Carpet Tile	19,730	SF	24.00	473,520	
710			EP - Epoxy Flooring	19,948	SF	20.00	398,960	
711			EP Concrete - Epoxy Painted Concrete	46,139	SF	3.50	161,487	
712			WOC Walk of carpet at lobbies etc.	2,633	SF	9.00	23,697	
713			FGC - Foor Grille Carpet - Interior Entrance Mat	838	SF	50.00	41,900	
714			LIN-1,2 &3	15,999	SF	15.00	239,985	
715			LIN1, 2, 3, & 5 Pattern	39,027	SF	8.00	312,216	
716			LIM Multi	4,217	SF	9.00	37,953	
717			LVT-1 Luxury Vinyl Tile	6,243	SF	9.00	56,187	
718			RC - Resilient Carpet	112	SF	7.00	784	
719			RC-1, 2 & 3 - Resilient Carpet	3,212	SF	7.00	22,484	
720			RR - Rubber Stair Treads and Risers	5,438	SF	6.50	35,347	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
721		RT-1 @ Stairs	484	SF	14.00	6,776		
722		RT1 floor tile	696	SF	14.00	9,744		
723		RT-1, 2, 3, Pattern and 6 Border	32,314	SF	15.00	484,710		
724		S-Conc Sealed Concrete- General areas	10,143	SF	1.80	18,257		
725		SV-1 & 2	11,024	SF	8.60	94,806		
726		SV-1, 2, 3, 5 Pattern	19,253	SF	8.60	165,576		
727		SV-SR-1 Sheet Vinyl - Slip Resistant	3,043	SF	7.00	21,301		
728		TZ-5 Color Logo	50	SF	75.00	3,750		
729		TZ-1	1,461	SF	47.00	68,667		
730		TZ-1 - On Stair Riser	389	SF	47.00	18,283		
731		TZ-1 & 3 @ Toilet	667	SF	47.00	31,349		
732		TZ-1, 2, 3, 4, 5 & Pattern	8,645	SF	47.00	406,315		
733		TZ-8 Epoxy Terrazzo	5,288	SF	47.00	248,536		
734		WAF - Wood Athletic Flooring GYM	12,081	SF	25.00	302,025		
735		SP @ Wood Stage Flooring, on and including plywood subfloor and sleepers	722	SF	75.00	54,150		
736		(2) Layers of 3/4" FRT Plywood subfloor on FRT 2x12 Joist @ mezzanine	3,214	SF	35.00	112,490		
737								
738		BASE				-		
739		Rubber Base 4"	27,102	LF	4.00	108,408		
740		Millwork Rubber Base 4"	1,120	LF	4.00	4,480		
741		Epoxy Base 4"	1,402	LF	14.00	19,628		
742		CT-5 w/ Stainless Steel Cove Base	2,098	LF	30.00	62,940		
743		Vented Rubber Base @ gym	446	LF	6.00	2,676		
744								
745		Sub Total : Floor Finishes				4,214,843		
746								
747								
748	C3030	Ceiling Finishes						
749		Exp. Joint assemblies at floor	300	LF	120.00	36,000		
750		Floating acoustical clouds @ restaurant	586	SF	25.00	14,650		
751		Acoustical Baffles	3,294	SF	55.00	181,170		
752		ACT-1 - 2x2 Acoustical Tile	109,247	SF	9.00	983,223		
753		ACT-2 - 2x2 Acoustical Tile	6,184	SF	9.00	55,656		
754		ACT-3 - 2x2 Acoustical Tile	14,133	SF	9.00	127,197		
755		ACT-4 - 2x2 Acoustical Tile	2,846	SF	9.00	25,614		
756		ACT-5 - 2x2 Acoustical Tile	5,315	SF	9.00	47,835		
757		ACT-6 - Suspended Acoustical Clouds	256	SF	20.00	5,120		
758		EAVB Extruded Alum. Vertical Blade System	268	SF	75.00	20,100		
759		GWB clgs	10,179	SF	14.00	142,506		
760		GWB Fascia	2,333	SF	17.00	39,661		
761		GWB Soffit	2,455	LF	25.00	61,375		
762		LMC-1	14,149	SF	50.00	707,450		
763		LMC-2	766	SF	40.00	30,640		
764		LMC-1 at exterior soffit			included with wall/roof assemblies	-		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
765		PMC - Perforated Metal Ceiling	749	SF	50.00		37,450	
766		Sound Isolator Ceiling - (add GWB)	29,800	SF	40.00		1,192,000	
767		VBC-12 Vertical Blade Ceiling	4,225	SF	40.00		169,000	
768		Exposed Ceiling Painted	72,968	SF	2.00		145,936	
769		Exposed painted structure at Gymnasium	12,215	SF	4.00		48,860	
770		Paint GWB Fascia	2,333	SF	3.00		6,999	
771		GWB Soffit	2,455	LF	4.50		11,048	
772		Exposed painted structure at Student Commons (high area- Note-- intumescent at trusses taken with roof construction)	3,817	SF	3.00		11,451	
773								
774		Sub Total : Ceiling Finishes					4,100,941	
775								
776		SUBTOTAL FOR INTERIOR FINISHES					End of Trade	\$ 11,378,705
777								
778								
779	D	SERVICES						
780	D10	Elevators & Lifts						
781		5,000 # service elevator, 2 stop, Freight	2	STOP	75,000.00		150,000	
782		3,500 # passenger elevator, 4 stop, Passenger	4	STOP	70,000.00		280,000	
783		Elev pit Ladder	2	EA	4,400.00		8,800	
784		Cab finishes- elev #1	1	EA	25,000.00		25,000	
785		Cab finishes- elev #2	1	EA	30,000.00		30,000	
786		Wall ladder, shops area	1	EA	29,000.00		29,000	
787		Ships ladder, elec room	1	EA	5,500.00		5,500	
788		Elevator, protect cab finishes	2	EA	5,000.00		10,000	
789								
790		Sub Total : Elevators & Lifts					538,300	
791								
792		SUBTOTAL FOR Elevators & Lifts					End of Trade	\$ 538,300
793								
794	D20	Plumbing						
795		<u>Equipment</u>					-	
796		Duplex domestic water booster pump with pressure tank	1	PKG	46,000.00		46,000	
797		Chemical injection type pH adjustment system with mixer, injection pumps, and outlet recorder - <i>assume</i>	1	SYST	40,000.00		40,000	
798		Water source heat pump type water heaters - 200 gal	2	EA	250,000.00		500,000	
799		Circulation pump	2	EA	3,260.00		6,520	
800		Expansion tank	1	EA	5,400.00		5,400	
801		Electric water heater - 10 gal	2	EA	8,200.00		16,400	
802		Elevator sump pump with oil separator and control panel	2	EA	6,400.00		12,800	
803		Outside grease interceptor - 5000 gal	1	EA	120,000.00		120,000	
804		Outside grease interceptor - 1000 gal	1	EA	78,000.00		78,000	
805		Recessed grease interceptor	3	EA	20,000.00		60,000	
806		Oil separator - 50 gpm	1	EA	14,000.00		14,000	
807		Outside gas / sand / oil interceptor	2	EA	52,000.00		104,000	
808		Duplex air compressor - tank mounted with refrigerated dryer @ Carpentry, auto tech, auto body, and marine tech	2	PKG	32,000.00		64,000	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION
Description	Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades	
809	Compressed air system @ Dental classrooms	1	SYST	26,000.00	26,000		
810	Medical vacuum system @ Dental classrooms	1	SYST	18,600.00	18,600		
811	Water filtration system @ Dental classrooms	1	SYST	10,000.00	10,000		
812	Hook-up equipment	1	LS	40,000.00	40,000		
813							
814	Piping system						
815	Domestic water / Non-potable water piping systems	281,500	GSF	6.50	1,829,750		
816	Domestic water / Non-potable water pipe	1	LS		included		
817	Domestic water / Non-potable water pipe insulation	1	LS		included		
818	Water connection for irrigation system	1	LS		included		
819	Valves and specialties (incl. TMV, reduced pressure backflow preventors, water hammer arrestors, etc.)	1	LS		included		
820	Water meter & Incoming water service requirements	1	LOC	11,500.00	11,500		
821	Non Freeze Encased Wall Hydrant (Mifab MHY-25)	14	EA	700.00	9,800		
822	Sanitary waste and vent piping systems						
823	6" dia pipe (Cast iron, B&S) / fittings / supports	20	LF	183.25	3,665		
824	4" dia pipe (Cast iron, B&S) / fittings / supports	3,440	LF	134.25	461,820		
825	3" dia pipe (Cast iron, B&S) / fittings / supports	180	LF	112.20	20,196		
826	2" dia pipe (Cast iron, B&S) / fittings / supports	620	LF	90.20	55,924		
827	Excavation and backfill @ Under slab sanitary waste and vent pipe	4,260	LF	45.00	191,700		
828	Sanitary waste and vent pipe above ground (incl. PD pipe, clean outs, etc.)	281,500	GSF	3.45	971,175		
829	Trench drain with grate - 4' length	30	EA	700.00	21,000		
830	Floor drain - 4"	27	EA	940.00	25,380		
831	Floor drain - 2"	49	EA	720.00	35,280		
832	Floor sink - 3"	2	EA	1,530.00	3,060		
833	Floor sink - 2"	18	EA	1,350.00	24,300		
834	4" VTR	12	EA	510.00	6,120		
835	3" VTR	2	EA	450.00	900		
836	2" VTR	3	EA	410.00	1,230		
837	Storm water piping systems						
838	18" dia pipe (Cast iron, B&S) / fittings / supports	490	LF	707.01	346,435		
839	12" dia pipe (Cast iron, B&S) / fittings / supports	90	LF	450.88	40,579		
840	10" dia pipe (Cast iron, B&S) / fittings / supports	80	LF	321.04	25,683		
841	8" dia pipe (Cast iron, B&S) / fittings / supports	160	LF	268.25	42,920		
842	6" dia pipe (Cast iron, B&S) / fittings / supports	330	LF	183.25	60,473		
843	Excavation and backfill @ Under slab storm water pipe	1,150	LF	45.00	51,750		
844	10" dia pipe (Cast iron, no hub) / fittings / supports	190	LF	309.88	58,877		
845	8" dia pipe (Cast iron, no hub) / fittings / supports	390	LF	258.75	100,913		
846	6" dia pipe (Cast iron, no hub) / fittings / supports	650	LF	173.63	112,860		
847	5" dia pipe (Cast iron, no hub) / fittings / supports	970	LF	159.00	154,230		
848	4" dia pipe (Cast iron, no hub) / fittings / supports	1,200	LF	126.03	151,236		
849	Storm water pipe insulation	3,400	LF	22.40	76,160		
850	Clean outs	1	LS	20,000.00	20,000		
851	Roof drain 4" dia	58	EA	970.00	56,260		
852	Roof drain 6" dia	32	EA	1,260.00	40,320		
853	Natural gas piping systems						
854	2" dia pipe (Black steel, sch-40) / fittings / supports	300	LF	83.07	24,921		
855	Painting piping	300	LF	6.00	1,800		
856	2" Maxon valve - assume	2	EA	6,150.00	12,300		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
857		Gas meter / Regulator	2	SET			by Other	
858		Connection to water heater with pressure regulator and shut-off valve	2	EA	2,400.00		4,800	
859		Emergency gas shut-off system (incl. control panel with pushbutton and keyed reset)	2	SYST	12,000.00		24,000	
860		Connections with kitchen equipment (incl. assoc. pipe, valves, etc.)	1	LS	30,000.00		30,000	
861		Compressed air piping system @ Carpentry, auto tech, auto body, and marine tech						
862		1-1/4" dia pipe (Copper-L) / fittings / supports	820	LF	59.85		49,077	
863		1" dia pipe (Copper-L) / fittings / supports	520	LF	46.23		24,040	
864		3/4" dia pipe (Copper-L) / fittings / supports	320	LF	37.58		12,026	
865		1/2" dia pipe (Copper-L) / fittings / supports	800	LF	31.63		25,304	
866		1/2" hose reel	38	EA	800.00		30,400	
867		Valves and specialties @ Compressed air piping system - assume	1	LS	10,000.00		10,000	
868		Acid waste and vent piping systems - assume	281,500	GSF	0.39		108,378	
869		Compressed air and vacuum piping system @ Dental	1	LS	20,000.00		20,000	
870		Plumbing connections @ Cosmetology fixtures	1	LS	8,000.00		8,000	
871		Plumbing connections@ Laundry	1	LS	1,600.00		1,600	
872		Kitchen plumbing and connections	1	LS	50,000.00		50,000	
873								
874		Plumbing fixtures						
875		P-1 - Water closet - wall mounted	105	EA	2,140.00		224,700	
876		P-2 - Lavatory - wall mounted	47	EA	2,060.00		96,820	
877		P-3 - Lavatory - faucet and connections only	45	EA	1,250.00		56,250	
878		P-4 - Drinking fountain (Halsey Taylor HTHB-HVRGRN8BL-WF)	11	EA	6,580.00		72,380	
879		P-5 - Mop service basin	2	EA	2,000.00		4,000	
880		P-6 - Service sink	2	EA	1,940.00		3,880	
881		P-7 - Classroom sink	10	EA	2,740.00		27,400	
882		P-10 - General use sink	45	EA	2,740.00		123,300	
883		P-11 - Science room sink - install only	38	EA	880.00		33,440	
884		P-12 - Emergency eye wash station with mixing valve (Guardian GBF1735L)	4	EA	4,650.00		18,600	
885		P-12X - Emergency safety station with mixing valve (Guardian GB2172)	5	EA	8,020.00		40,100	
886		P-13 - Emergency shower station with mixing valve (Guardian 1950P)	11	EA	3,200.00		35,200	
887		P-15 - Shower - trim only	15	EA	1,780.00		26,700	
888		B-16 - Semi-circular wash fountain (Bradley WF-2704)	6	EA	16,100.00		96,600	
889		B-17 - Circular wash fountain (Bradley WF-2708)	2	EA	15,400.00		30,800	
890		P-18 - Urinal - wall mounted	7	EA	1,800.00		12,600	
891		Wall carrier @ Water closet	105	EA	1,280.00		134,400	
892		Wall carrier @ Lavatory	47	EA	850.00		39,950	
893		Wall carrier @ Urinal	7	EA	850.00		5,950	
894		Fixture rough-in	355	EA	700.00		248,500	
895		Plumbing fixtures (incl. rough-in) not shown - assume	1	LS	100,000.00		100,000	
896		Radon system, level 01, as required	152,000	sf	0.87		132,240	
897								
898		Other	281,500	GSF	1.20		337,800	
899		Make-up water requirements (Mechanical room)	1	LS			included	
900		Access door	1	LS			included	
901		Flex pipe extension joints	1	LS			included	
902		Vibration isolation	1	LS			included	
903		Penetrations and sleeves	1	LS			included	
904		Core drill, patching, fire stopping	1	LS			included	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
905		Clean, flush and test	1	LS			included	
906		Disinfection	1	LS			included	
907		System validate / Certification	1	LS			included	
908		Equipment handling and material distribution	1	LS			included	
909		System ID / Valve tags	1	LS			included	
910		Shop co-ordination drawings	1	LS			included	
911		Seismic restraints and pipe seismic joints (flex pipe extension joints)	1	LS			included	
912		Equipment and pipe supports	1	LS			included	
913		Coordination with other trades	1	LS			included	
914								
915		Sub Total : Plumbing					8,511,470	
916								
917		SUBTOTAL FOR Plumbing					End of Trade	\$ 8,511,470
918								
919	D30	HVAC						
920		HVAC						
921		Equipment						
922		Split type air source heat pump unit						
923		ERU-1 - 3000 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA006UA)	1	EA	45,200.00		45,200	
924		ERU-2 - 14500 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA030UA)	1	EA	199,600.00		199,600	
925		ERU-3 - 9100 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA021UA)	1	EA	132,450.00		132,450	
926		ERU-4 - 3500 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA008UA)	1	EA	52,200.00		52,200	
927		ERU-6 - 11000 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA030UA)	1	EA	158,500.00		158,500	
928		ERU-12 - 2400 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA006UA)	1	EA	38,000.00		38,000	
929		ERU-13 - 2600 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA006UA)	1	EA	45,200.00		45,200	
930		ERU-14 - 3200 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA008UA)	1	EA	48,600.00		48,600	
931		ERU-15 - 3400 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA008UA)	1	EA	51,200.00		51,200	
932		ERU-16 - 5000 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA012UA)	1	EA	74,000.00		74,000	
933		ERU-17 - 2400 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA006UA)	1	EA	38,000.00		38,000	
934		ERU-18 - 2400 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane CSAA006UA)	1	EA	38,000.00		38,000	
935		Condensate pump @ Split type air source heat pump unit	12	ea	480.00		5,760	
936		Drain pan with drain pan level sensors @ Split type air source heat pump unit	12	ea	755.00		9,060	
937		Split type air source heat pump outdoor section						
938		ERU-1 - 216 mbh cooling, 243 mbh heating (Trane TUHYE2164BN40AN)	1	EA	54,800.00		54,800	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
939		ERU-2A, 2B - 336 mbh cooling, 338 mbh heating (Trane TUHYE3364BN40AN)	2	EA	84,680.00	169,360		
940		ERU-3A, 3B - 216 mbh cooling, 243 mbh heating (Trane TUHYE2164BN40AN)	2	EA	54,800.00	109,600		
941		ERU-4 - 192 mbh cooling, 216 mbh heating (Trane TUHYE1924BN40AN)	1	EA	49,600.00	49,600		
942		ERU-6A, 6B - 312 mbh cooling, 350 mbh heating (Trane TUHYE3124BN40AN)	2	EA	78,840.00	157,680		
943		ERU-12 - 144 mbh cooling, 160 mbh heating (Trane TUHYE1444AN40AN)	1	EA	36,600.00	36,600		
944		ERU-13 - 144 mbh cooling, 160 mbh heating (Trane TUHYE1444AN40AN)	1	EA	36,600.00	36,600		
945		ERU-14 - 216 mbh cooling, 243 mbh heating (Trane TUHYE2164BN40AN)	1	EA	54,800.00	54,800		
946		ERU-15 - 216 mbh cooling, 243 mbh heating (Trane TUHYE2164BN40AN)	1	EA	54,800.00	54,800		
947		ERU-16 - 264 mbh cooling, 296 mbh heating (Trane TUHYE2644BN40AN)	1	EA	70,000.00	70,000		
948		ERU-17 - 144 mbh cooling, 160 mbh heating (Trane TUHYE1444AN40AN)	1	EA	36,600.00	36,600		
949		ERU-18 - 144 mbh cooling, 160 mbh heating (Trane TUHYE1444AN40AN)	1	EA	36,600.00	36,600		
950		Refrigerant charge	1,136	LBS	70.00	79,520		
951		Packaged rooftop air source heat pump unit						
952		ERU-5 - 4500 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OADG020C3)	1	EA	82,200.00	82,200		
953		ERU-7 - 7400 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OANE420A4)	1	EA	131,700.00	131,700		
954		ERU-8 - 6600 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OANE360A4)	1	EA	117,300.00	117,300		
955		ERU-9 - 9000 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OANE540A4)	1	EA	148,300.00	148,300		
956		ERU-10 - 5500 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OAKE300A4)	1	EA	97,300.00	97,300		
957		ERU-11 - 4700 cfm, cooling coil, heating coil, auxiliary electric heating coil, enthalpy wheel, MERV 8/15 filter (Trane Horizon-OADG020C3)	1	EA	85,200.00	85,200		
958		VRF indoor unit						
959		VRF indoor unit (ceiling cassette) - 5000 btu/h cooling, 5600 btu/h heating (Mitsubishi PLFY-P05NFMU-ER1.TH)	134	EA	4,580.00	613,720		
960		VRF indoor unit (ceiling cassette) - 5000 btu/h cooling, 5600 btu/h heating (Mitsubishi PLFY-P05NFMU-E)	2	EA	4,550.00	9,100		
961		VRF indoor unit (ceiling cassette) - 6000 btu/h cooling, 6700 btu/h heating (Mitsubishi PLFY-P06NFMU-ER1.TH)	1	EA	4,620.00	4,620		
962		VRF indoor unit (ceiling cassette) - 8000 btu/h cooling, 9000 btu/h heating (Mitsubishi PLFY-P08NFMU-ER1.TH)	54	EA	4,690.00	253,260		
963		VRF indoor unit (ceiling cassette) - 12000 btu/h cooling, 13500 btu/h heating (Mitsubishi PLFY-P12NFMU-ER1.TH)	61	EA	4,820.00	294,020		
964		VRF indoor unit (ceiling cassette) - 15000 btu/h cooling, 17000 btu/h heating (Mitsubishi PLFY-P15NFMU-ER1.TH)	2	EA	4,950.00	9,900		

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ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
965		VRF indoor unit (ceiling cassette) - 18000 btu/h cooling, 20000 btu/h heating (Mitsubishi PLFY-P18NFMU-ER1.TH)	1	EA	5,590.00	5,590		
966		VRF indoor unit (ceiling-concealed ducted) - 6000 btu/h cooling, 6700 btu/h heating (Mitsubishi PEFY-P06NMAU-E4)	1	EA	5,030.00	5,030		
967		VRF indoor unit (ceiling-concealed ducted) - 12000 btu/h cooling, 13500 btu/h heating (Mitsubishi PEFY-P12NMAU-E4)	1	EA	5,260.00	5,260		
968		VRF indoor unit (ceiling-concealed ducted) - 15000 btu/h cooling, 17000 btu/h heating (Mitsubishi PEFY-P15NMAU-E4)	3	EA	5,490.00	16,470		
969		VRF indoor unit (ceiling-concealed ducted) - 18000 btu/h cooling, 20000 btu/h heating (Mitsubishi PEFY-P18NMAU-E4)	1	EA	5,620.00	5,620		
970		VRF indoor unit (ceiling-concealed ducted) - 24000 btu/h cooling, 27000 btu/h heating (Mitsubishi PEFY-P24NMAU-E4)	3	EA	5,840.00	17,520		
971		VRF indoor unit (ceiling-concealed ducted) - 27000 btu/h cooling, 30000 btu/h heating (Mitsubishi PEFY-P27NMAU-E4)	1	EA	6,290.00	6,290		
972		VRF indoor unit (ceiling-concealed ducted) - 30000 btu/h cooling, 34000 btu/h heating (Mitsubishi PEFY-P30NMAU-E4)	1	EA	6,520.00	6,520		
973		VRF indoor unit (ceiling-concealed ducted) - 48000 btu/h cooling, 54000 btu/h heating (Mitsubishi PEFY-P48NMAU-E4)	12	EA	7,500.00	90,000		
974		VRF indoor unit (ceiling-concealed ducted) - 54000 btu/h cooling, 60000 btu/h heating (Mitsubishi PEFY-P54NMAU-E4)	1	EA	7,910.00	7,910		
975		Condensate pump @ VRF indoor unit	279	ea	480.00	133,920		
976		Drain pan with drain pan level sensors @ VRF indoor unit	279	ea	755.00	210,645		
977		Branch circuit controller						
978		Branch circuit controller - 16 ports	7	EA	18,080.00	126,560		
979		Branch circuit controller - 12 ports	8	EA	15,250.00	122,000		
980		Branch circuit controller - 8 ports	2	EA	12,340.00	24,680		
981		Branch circuit controller - 4 ports	2	EA	9,680.00	19,360		
982		Condensate pump @ Branch circuit controller	19	ea	480.00	9,120		
983		Drain pan with drain pan level sensors @ Branch circuit controller	19	ea	755.00	14,345		
984		VRF outdoor unit						
985		VRF outdoor unit - 144000 btu/h cooling, 160000 btu/h heating (Mitsubishi PURY-HP144TSNU-A1)	2	EA	53,240.00	106,480		
986		VRF outdoor unit - 240000 btu/h cooling, 270000 btu/h heating (Mitsubishi PURY-HP240TSNU-A1)	1	EA	67,570.00	67,570		
987		VRF outdoor unit - 312000 btu/h cooling, 350000 btu/h heating (Mitsubishi PURY-EP312TSNU-A1)	1	EA	96,100.00	96,100		
988		VRF outdoor unit - 72000 btu/h cooling, 80000 btu/h heating (Mitsubishi PURY-HP72TNU-A1)	1	EA	28,730.00	28,730		
989		VRF outdoor unit - 168000 btu/h cooling, 188000 btu/h heating (Mitsubishi PURY-EP168TNU-A1)	4	EA	53,640.00	214,560		
990		VRF outdoor unit - 216000 btu/h cooling, 243000 btu/h heating (Mitsubishi PURY-EP216TSNU-A1)	2	EA	68,570.00	137,140		
991		VRF outdoor unit - 264000 btu/h cooling, 295000 btu/h heating (Mitsubishi PURY-EP264TSNU-A1)	1	EA	74,160.00	74,160		
992		VRF outdoor unit - 120000 btu/h cooling, 135000 btu/h heating (Mitsubishi PURY-HP120TNU-A1)	3	EA	34,390.00	103,170		
993		VRF outdoor unit - 336000 btu/h cooling, 378000 btu/h heating (Mitsubishi PURY-EP336TSNU-A1)	1	EA	110,460.00	110,460		
994		VRF outdoor unit - 96000 btu/h cooling, 108000 btu/h heating (Mitsubishi PURY-HP96TNU-A1)	1	EA	31,010.00	31,010		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
995		Refrigerant charge	1,024	LBS	70.00	71,680			
996		Ductless split-type air conditioner							
997		Ductless split-type air conditioner - 12 mbh cooling, with condensate drain pump (Mitsubishi PKA-A12LA1 / PUY-A12NKA7)	12	SET	7,450.00	89,400			
998		Condensate pump @ SDuctless split-type air conditioner	12	ea	480.00	5,760			
999		Drain pan with drain pan level sensors @ Ductless split-type air conditioner	12	ea	755.00	9,060			
1000		Exhaust fan							
1001		EF-1, 3 (dishwasher) - 600 cfm (Greenheck GB-099)	2	EA	2,300.00	4,600			
1002		EF-2, 4, 5 (kitchen hood)	3	EA	6,400.00	19,200			
1003		EF-6, 7, 8 - inline	3	EA	3,500.00	10,500			
1004		EF (dryer vent) - inline	1	EA	2,400.00	2,400			
1005		Prefabricated roof curb @ Roof mounted fans	5	EA	940.00	4,700			
1006		Make-up air unit MAU-1 (Greenheck MSX-P116-H22-MF)	1	EA	38,000.00	38,000			
1007		Electric unit heater and cabinet unit heater							
1008		ECUH-1 - 8 kw (Qmark EFQ8008)	6	EA	2,380.00	14,280			
1009		ECUH-2 - 3 kw (Qmark EFF4004)	5	EA	1,400.00	7,000			
1010		ECUH-3 - 4 kw (Qmark EFF4008)	3	EA	1,440.00	4,320			
1011		ECUH-4 - 2 kw (Qmark EFF4008)	3	EA	1,440.00	4,320			
1012		ECUH-5 - 4.8 kw (Qmark AWH4508F)	3	EA	1,600.00	4,800			
1013		ECUH-6 - 1 kw (Qmark CWH1101DSF)	8	EA	680.00	5,440			
1014		ECUH-7 - 1.5 kw (Qmark CWH1151DSF)	1	EA	710.00	710			
1015		ECUH-8 - 4 kw (Qmark AWH4408F)	4	EA	1,440.00	5,760			
1016		HUH-1 - 4.685 kw (Qmark MWUH7504)	1	EA	1,550.00	1,550			
1017		HUH-2 - 3.123 kw (Qmark MWUH5004)	1	EA	900.00	900			
1018		Vehicle exhaust ventilation system	1	SYST	64,000.00	64,000			
1019		Dust collector with 66 gallon drum access @ Woodworking	1	SYST	180,000.00	180,000			
1020		Equipment hot shown - assume	1	LS	200,000.00	200,000			
1021									
1022		Hook-up equipment							
1023		Hook-up split type air source heat pump unit	12	EA	920.00	11,040			
1024		Hook-up split type air source heat pump outdoor section	15	EA	950.00	14,250			
1025		Hook-up VRF indoor unit	279	EA	770.00	214,830			
1026		Hook-up VRF outdoor unit	17	EA	950.00	16,150			
1027		Hook-up ductless split-type air conditioner	12	SET	1,720.00	20,640			
1028		Hook-up branch circuit controller - 16 ports	7	EA	4,640.00	32,480			
1029		Hook-up branch circuit controller - 12 ports	8	EA	3,480.00	27,840			
1030		Hook-up branch circuit controller - 8 ports	2	EA	2,320.00	4,640			
1031		Hook-up branch circuit controller - 4 ports	2	EA	1,160.00	2,320			
1032		Hook-up condensate drain pump	322	EA	120.00	38,640			
1033									
1034		Piping system							
1035		Refrigerant pipe with insulation (indoor unit - branch controller)	65,920	LF	41.85	2,758,752			
1036		Refrigerant pipe with insulation (branch controller - outdoor unit)	4,940	LF	48.60	240,084			
1037		Condensate drain with insulation (30' for each unit - assume)	328	UNIT	1,766.40	579,379			
1038		Valves and specialties	1	LS	60,000.00	60,000			
1039									
1040		Air side system							
1041		Galvanized steel duct	182,480	LBS	18.75	3,421,500			
1042		Aluminum ductwork	120	LBS	24.00	2,880			

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
1043		Black iron duct @ Kitchen exhaust hood	7,200	LBS	22.50	162,000			
1044		Duct insulation / Acoustical lining	141,930	SF	6.00	851,580			
1045		Duct insulation @ Kitchen exhaust	1,165	SF	20.75	24,174			
1046		Air devices	558	EA	240.00	133,920			
1047		Linear diffuser with plenum	108	LF	185.00	19,980			
1048		Volume damper	492	EA	145.00	71,340			
1049		Fire damper (20 ea)	47	SF	400.00	18,800			
1050		Demand control ventilation damper	177	EA	1,320.00	233,640			
1051		Kitchen hoods with fire suppression	3	EA	36,000.00	108,000			
1052		Roof intake and relief vent GV-1 - furnish with welded aluminum curb and motorized damper (Greenheck GRSR-24)	7	EA	7,200.00	50,400			
1053		Roof intake and relief vent RI-1 - furnish with welded aluminum curb and motorized damper (Greenheck GRSI-24)	7	EA	7,200.00	50,400			
1054		Sound attenuators	179,900	CFM	0.41	73,759			
1055		Gooseneck @ Dryer vent	1	EA	850.00	850			
1056		Wall cap @ Dryer vent	1	EA	620.00	620			
1057		Flue with insulation @ High-efficiency gas-fired tank type water heaters	1	LS	7,500.00	7,500			
1058		Flexible duct connections	1	LS	6,000.00	6,000			
1059		Flexible connections @ Equipment	1	LS	8,000.00	8,000			
1060		Air side system not shown (incl. ductwork, duct insulation, air devices, dampers, etc.) - <i>assume</i>	1	LS	400,000.00	400,000			
1061		Louvers	1	LS		by GC			
1062									
1063		System controls	281,500	GSF	9.35	2,632,025			
1064		Split type air source heat pump unit	12	EA		included			
1065		Split type air source heat pump outdoor section	15	EA		included			
1066		Packaged rooftop air source heat pump unit	6	EA		included			
1067		VRF indoor unit	279	EA		included			
1068		VRF outdoor unit	17	EA		included			
1069		Ductless split-type air conditioner	12	SET		included			
1070		Branch circuit controller - 16 ports	7	EA		included			
1071		Branch circuit controller - 12 ports	8	EA		included			
1072		Branch circuit controller - 8 ports	2	EA		included			
1073		Branch circuit controller - 4 ports	2	EA		included			
1074		Condensate drain pump	322	EA		included			
1075		Exhaust fan	9	EA		included			
1076		Make-up air unit	1	EA		included			
1077		Electric unit heater and cabinet unit heater	35	EA		included			
1078		Vehicle exhaust ventilation system	1	SYST		included			
1079		Dust collector with 66 gallon drum access @ Woodworking	1	EA		included			
1080		Equipment hot shown - <i>assume</i>	1	LS		included			
1081		Dampers (MD, FSD) - <i>assume</i>	1	LS		included			
1082		Plumbing equipment control requirements	1	LS		included			
1083		Control panels (incl. BMS panels)	1	LS		included			
1084		Sensors, thermostats, switches	1	LS		included			
1085		Programming labor for integrated points	1	LS		included			
1086		LV Wiring and 120 V requirements	1	LS		included			
1087									
1088		Temporary HVAC	281,500	GSF	0.40	112,600			
1089									



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ESTIMATE DETAIL

NEW CONSTRUCTION					BUILDING AREA	281,500 GSF	NEW CONSTRUCTION			
Description					Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
1090		Other	281,500	GSF	6.75	1,900,125				
1091		Access doors	1	LS		included				
1092		Vibration isolation / Seismic	1	LS		included				
1093		Penetrations and sleeves	1	LS		included				
1094		Core drill, patching, fire stopping	1	LS		included				
1095		Test and balance	1	LS		included				
1096		Clean, flush and test (piping system)	1	LS		included				
1097		System start-up / Commissioning	1	LS		included				
1098		Rigging	1	LS		included				
1099		Equipment handling and material distribution	1	LS		included				
1100		System ID / Valve tags	1	LS		included				
1101		Shop co-ordination drawings	1	LS		included				
1102		O&M manuals	1	LS		included				
1103		Equipment, duct and pipe supports	1	LS		included				
1104		Coordination with other trades	1	LS		included				
1105										
1106										
1107		Sub Total : HVAC					20,584,688			
1108										
1109		SUBTOTAL FOR HVAC					End of Trade	\$ 20,584,688		
1110										
1111	D40	Fire Protection								
1112		21000 Fire Protection								
1113		Equipment								
1114		Fire pump with controller	1	EA	110,000.00	110,000				
1115		Jockey pump with controller	1	EA		included				
1116										
1117		Wet sprinkler system								
1118		6" dia pipe (Black steel, Sch-40) / fittings / supports	1,730	LF	179.09	309,826				
1119		4" dia pipe (Black steel, Sch-40) / fittings / supports	3,760	LF	110.25	414,540				
1120		3" dia pipe (Black steel, Sch-40) / fittings / supports	1,010	LF	91.75	92,668				
1121		2-1/2" dia pipe (Black steel, Sch-40) / fittings / supports	1,870	LF	70.02	130,937				
1122		2" dia pipe (Black steel, Sch-40) / fittings / supports	3,430	LF	53.69	184,157				
1123		1-1/2" dia pipe (Black steel, Sch-40) / fittings / supports	2,410	LF	39.62	95,484				
1124		1-1/4" dia pipe (Black steel, Sch-40) / fittings / supports	2,280	LF	36.03	82,148				
1125		1" dia pipe (Black steel, Sch-40) / fittings / supports	21,880	LF	25.45	556,846				
1126		Concealed sprinkler head	1,767	EA	95.00	167,865				
1127		Dry type sprinkler head	2	EA	190.00	380				
1128		Upright sprinkler head	708	EA	90.00	63,720				
1129		2-1/2" Fire hose valves	2	EA	1,050.00	2,100				
1130		6" Double check detector assembly	1	EA	11,080.00	11,080				
1131		6" dia Incoming water service requirements	1	LOC	8,000.00	8,000				
1132		6" Flow meter - assume	1	EA	5,430.00	5,430				
1133		6" OS&Y gate valve with tamper switch	7	EA	2,210.00	15,470				
1134		4" OS&Y gate valve with tamper switch	4	EA	1,800.00	7,200				
1135		6" Check valve with automatic ball drip	1	EA	2,070.00	2,070				

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1136			6" Check valve	5	EA	1,790.00	8,950	
1137			6" ZCVA	3	EA	2,800.00	8,400	
1138			4" FCVA	7	EA	2,350.00	16,450	
1139			Flow switch	3	EA	520.00	1,560	
1140			Pressure gauge	6	EA	200.00	1,200	
1141			Fire pump test header	1	EA	5,100.00	5,100	
1142			4" Storz type fire department connection	2	EA	2,080.00	4,160	
1143			Valves and specialties not shown - assume	1	LS	10,000.00	10,000	
1144			Locked storage fire department cabinet - assume	1	EA	7,480.00	7,480	
1145								
1146			Other	281,500	GSF	0.80	225,200	
1147			Temporary standpipe and loop	1	LS		included	
1148			Remove temporary standpipe and loop	1	LS		included	
1149			System ID, labels and color coding	1	LS		included	
1150			Shop co-ordination drawings	1	LS		included	
1151			Painting standpipe and sprinkler pipe	1	LS		included	
1152			Design calculations	1	LS		included	
1153			Seismic restraints	1	LS		included	
1154			Core drill, patching, fire stopping	1	LS		included	
1155			Clean, flush and test	1	LS		included	
1156			Commissioning	1	LS		included	
1157			Equipment handling and material distribution	1	LS		included	
1158			Equipment and pipe supports	1	LS		included	
1159			Coordination with other trades	1	LS		included	
1160								
1161			Sub Total : Fire Protection				2,548,421	
1162								
1163			SUBTOTAL FOR Fire Protection				End of Trade	\$ 2,548,421
1164								
1165	D50		ELECTRICAL					
1166		5010	Electrical Demolition					
1167			Electrical work associated with removal of existing building, including temp. electricians, Cut, cap and make safe	1	ls	30,000.00	30,000	
1168								
1169			Sub Total : Electrical Demolition				30,000	
1170								
1171		5010.1	Electrical Service & Distribution				-	
1172			Normal Power Distribution SWBD's & Panels:				-	
1173			4000A Enclosed circuit breaker	1	EA	25,000.00	25,000	
1174			4000A 277/480V switchboard	2	EA	310,000.00	620,000	
1175			800A, 277/480V, distribution panelboard	9	EA	40,000.00	360,000	
1176			400A, 277/480V, panelboard	8	EA	20,000.00	160,000	
1177			100A, 277/480V panelboard	7	EA	2,500.00	17,500	
1178			800A, 120/208V, panelboard	3	EA	40,000.00	120,000	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
1179		600A, 120/208V, panelboard	5	EA	30,000.00	150,000		
1180		400A, 120/208V, panelboard	14	EA	15,000.00	210,000		
1181		225A, 120/208V panelboard	10	EA	4,000.00	40,000		
1182		100A, 120/208V panelboard	7	EA	2,500.00	17,500		
1183		Sensor relay panel (DIV 11)		EXCL		-		
1184						-		
1185		<u>Dry transformer. 3 PH</u>				-		
1186		112.5 KVA transformer	14	EA	9,840.00	137,760		
1187		150 KVA transformer	4	EA	12,110.00	48,440		
1188		<u>Dry transformer - type K-Rated</u>				-		
1189		30 KVA, 480- 120/208V	7	EA	5,105.00	35,735		
1190		225 KVA, 480- 120/208V	4	EA	37,900.00	151,600		
1191		<u>ZERO Sequence Harmonic Filter Schedule</u>				-		
1192		ZHFOP 3B/2C/2B/2A - 100A, 12 KVA, 120/208V, 40A, 3 P	7	EA	7,500.00	52,500		
1193		<u>Primary enclosed CB (PECB)</u>				-		
1194		PECB - 70A	15	EA	950.00	14,250		
1195		SECB - 225A	7	EA	2,125.00	14,875		
1196						-		
1197		<u>Meters</u>				-		
1198		EMON-DMON Meter (owner provided)	89	EA	500.00	44,500		
1199		120V power to each meter	89	EA	650.00	57,850		
1200						-		
1201		<u>Normal Power Feeders</u>				-		
1202		800A feed	2,840	LF	395.00	1,121,800		
1203		600A feed	290	LF	210.00	60,900		
1204		400A feed	3,910	LF	197.00	770,270		
1205		225A feed	2,020	LF	86.00	173,720		
1206		175A feed	870	LF	67.00	58,290		
1207		100A feed	2,520	LF	40.00	100,800		
1208		50A feed	2,280	LF	24.00	54,720		
1209						-		
1210		<u>Emergency Power Distribution SWBD's & Panels:</u>				-		
1211		1600A, 277/480V, switchboard GDP	1	EA	85,000.00	85,000		
1212		800A, 277/480V, distribution panelboard	8	EA	40,000.00	320,000		
1213		400A, 277/480V, panelboard	1	EA	20,000.00	20,000		
1214		100A, 277/480V panelboard	8	EA	2,500.00	20,000		
1215		800A, 120/208V, panelboard	2	EA	40,000.00	80,000		
1216		600A, 120/208V, panelboard	4	EA	30,000.00	120,000		
1217		225A, 120/208V panelboard	2	EA	4,000.00	8,000		
1218		150A, 120/208V panelboard	1	EA	3,000.00	3,000		
1219		100A, 120/208V panelboard	9	EA	2,500.00	22,500		
1220		60A, 120/208V panelboard	2	EA	1,500.00	3,000		
1221		<u>Primary enclosed CB (PECB)</u>				-		
1222		PECB - 70A	6	EA	950.00	5,700		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
							Total \$		
1223			SECB - 175A	3	EA	2,125.00	6,375		
1224			200A disconnect switch	3	EA	2,350.00	7,050		
1225			Wireway and tap connections	1	LS	2,500.00	2,500		
1226			Lighting control panel - LCE1, LCN1	2	EA	3,500.00	7,000		
1227			<u>Dry transformer, 3 PH</u>				-		
1228			9 KVA, 480 - 120/208V	2	EA	4,295.00	8,590		
1229			30 KVA transformer	5	EA	5,100.00	25,500		
1230			<u>Dry transformer - type K-Rated</u>				-		
1231			50 KVA, 480- 120/208V	2	EA	8,875.00	17,750		
1232			150 KVA, 480- 120/208V	3	EA	26,500.00	79,500		
1233			225 KVA, 480- 120/208V	3	EA	37,900.00	113,700		
1234			<u>ZERO Sequence Harmonic Filter Schedule</u>				-		
1235			ZHFOP1 -A1/1A/1C/1B - R - 100A, 12 KVA, 120/208V, 40A, 3 P	4	EA	7,500.00	30,000		
1236			ZHFOP 3B/2C/2B/2A - 100A, 12 KVA, 120/208V, 40A, 3 P	4	EA	7,500.00	30,000		
1237			<u>Emergency Power Feeders</u>				-		
1238			800A feed	1,640	LF	395.00	647,800		
1239			600A feed	50	LF	210.00	10,500		
1240			400A feed	560	LF	197.00	110,320		
1241			225A feed	675	LF	86.00	58,050		
1242			175A feed	40	LF	67.00	2,680		
1243			150A feed	15	LF	56.00	840		
1244			100A feed	2,365	LF	40.00	94,600		
1245			70A feed	100	LF	37.00	3,700		
1246			50A feed	1,500	LF	24.00	36,000		
1247			30A feed		LF	17.00	-		
1248			100A feed MI cable	550	LF	104.00	57,200		
1249			20A feed MI cable	550	LF	44.00	24,200		
1250			MI cable connections		EA	155.00	-		
1251			Fire pump disconnect switch 600A	1	EA	7,650.00	7,650		
1252			600A feed to FP (see Site Work Duct bank)				-		See Site Work
1253			<u>PV</u>				-		
1254			400A 3P circuit breaker	1	EA	4,850.00	4,850		
1255			400A disconnect switch				NIC		
1256			PV Inverter				NIC		
1257			Rough-in with conduit and backboxes	1	LS	10,000.00	10,000		
1258									
1259			Sub Total : Electrical Service & Distribution				6,761,565		
1260									
1261	5010.2		ES&D - Emergency Generators						
1262			<u>Emergency Power</u>						
1263			800KW emergency Diesel Generator with SA/WP cover (includes generator quote)	1	EA	385,000.00	385,000		
1264			800KW emergency Diesel Generator with SA/WP cover (Labor only)	1	EA	13,950.00	13,950		
1265			Remote annunciator (Labor to install only)	1	EA	750.00	750		
1266			800 Amp ATS (Labor only)	2	EA	2,400.00	4,800		

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1267		100 Amp ATS (Labor only)	2	EA	720.00	1,440		
1268		In line CB's -1600/3, 600/3, 100/3 Amp		included		-		
1269		Emergency power off button		included		-		
1270		Fuel testing		included		-		
1271		Load testing		included		-		
1272		Rigging		included		-		
1273		Grounding		included		-		
1274								
1275		Sub Total : ES&D - Emergency Generators				405,940		
1276								
1277	5010.3	ES&D - Equipment Wiring						
1278		Mechanical Requirements: disconnects/VFD's & motor controls, Sm, JB, conduit and wiring	281,500	SF	3.00	844,500		
1279								
1280		Sub Total : ES&D - Equipment Wiring				844,500		
1281								
1282	5020.1	Lighting, Circuitry & Lighting Controls				-		
1283		Site Security/Lighting (During Construction)	1	LS	25,000.00	25,000		
1284		Lighting Fixtures and Distribution						
1285		Lighting Fixtures (F/O)	281,500	SF	5.00	1,407,500		
1286		Lighting Fixtures (I/O)						
1287		Lighting Fixtures Type " FP22L "-2' X 2' edge lit flat panel	557	EA	218.00	121,426		
1288		Lighting Fixtures Type " HB-16 " Diameter Ind High Bay LTG	223	EA	363.00	80,949		
1289		Lighting Fixtures Type " IND4 " -4' Industrial Strip LTG Surface Mounted	159	EA	225.00	35,775		
1290		Lighting Fixtures Type " LP1 " -2" X 4' linear pendant, direct	8	EA	218.00	1,744		
1291		Lighting Fixtures Type " LP4 " -2" X 4' recessed	281	EA	218.00	61,258		
1292		Lighting Fixtures Type " LP3 "-Linear pendant. Black housing	37	EA	363.00	13,431		
1293		Lighting Fixtures Type " LP4H " -2" X 4' linear pendant, direct	9	EA	218.00	1,962		
1294		Lighting Fixtures Type " LP4L " -2" X 4' recessed grid,linear,direct	11	EA	218.00	2,398		
1295		Lighting Fixtures Type " LP6 " -2" X 6' linear pendant	50	EA	240.00	12,000		
1296		Lighting Fixtures Type " LP6H " -2" X 6' linear pendant, direct	3	EA	240.00	720		
1297		Lighting Fixtures Type " LP8H "-2" X 8' linear pendant, direct	474	EA	269.00	127,506		
1298		Lighting Fixtures Type " LP8 " -2" X 8' linear pendant	23	EA	269.00	6,187		
1299		Lighting Fixtures Type " LR4L " -2" X 4' recessed	160	EA	218.00	34,880		
1300		Lighting Fixtures Type " LR6L " -2" X 6' recessed	203	EA	240.00	48,720		
1301		Lighting Fixtures Type " LR8L " -2" X 8' recessed	52	EA	269.00	13,988		
1302		Lighting Fixtures Type " D2M " -4" round recessed downlight	286	EA	182.00	52,052		
1303		Lighting Fixtures Type " DSQ " -Surface mount downlight	113	EA	182.00	20,566		
1304		'Lighting Fixtures Type " DS1 " -Surface mount downlight	14	EA	182.00	2,548		
1305		Lighting Fixtures Type " LS6 " -2" X 6' recessed	3	EA	240.00	720		
1306		Lighting Fixtures Type " R3 " - 38" Dia Round light	11	EA	363.00	3,993		
1307		Lighting Fixtures Type " DP1 "-Pendant cylinder. Aluminum housing	45	EA	363.00	16,335		
1308		Lighting Fixtures Type " DP2 " -Pendant cylinder. Aluminum housing	30	EA	363.00	10,890		
1309		Lighting Fixtures Type " DP3 " -Pendant cylinder. Aluminum housing	29	EA	363.00	10,527		
1310		Lighting Fixtures Type " DP4 " -Pendant cylinder. Aluminum housing	4	EA	363.00	1,452		
1311		Lighting Fixtures Type " DP5 " -Pendant cylinder. Aluminum housing	9	EA	363.00	3,267		
1312		Lighting Fixtures Type " DP6 " -Pendant cylinder. Aluminum housing	38	EA	363.00	13,794		
1313		Lighting Fixtures Type " DX1 "	4	EA	363.00	1,452		
1314		Lighting Fixtures Type " MW1 " -Wall recessed aisle light	22	EA	450.00	9,900		



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1315		Lighting Fixtures Type " NW1 " -Wall recessed aisle light	2	EA	363.00	726		
1316		Lighting Fixtures Type " HW1 " -Wall recessed aisle light	41	EA	363.00	14,883		
1317		Lighting Fixtures Type " HW2 " -Wall recessed aisle light	10	EA	363.00	3,630		
1318		Lighting Fixtures Type " WM1 " -5' sq wall mounted exterior light	57	EA	450.00	25,650		
1319		Lighting Fixtures Type " AR1 "-Recessed adjustable accent. Housing is nominally 18" x 18-1/2"x10" high	12	EA	240.00	2,880		
1320		Lighting Fixtures Type " AR2 " -Recessed sloped ceiling downlight. Housing is nominally 18" x 23-3/8" x 9-1/8"	26	EA	240.00	6,240		
1321		Lighting Fixtures Type " AT1 " -Green Wall Track Head	15	EA	240.00	3,600		
1322		Lighting Fixtures Type " DR1 "-Library Downlight- Recessed downlight.	11	EA	240.00	2,640		
1323		Lighting Fixtures Type " DR3 "-Library Downlight- Recessed downlight.	3	EA	240.00	720		
1324		Lighting Fixtures Type " DR4 "-Student Commons High Ceiling- Recessed downlight.	78	EA	240.00	18,720		
1325		Lighting Fixtures Type " DR5 "Ceiling- Recessed downlight.	3	EA	240.00	720		
1326		Lighting Fixtures Type " GP1 " Pendant fixture. 20" diameter	2	EA	363.00	726		
1327		Lighting Fixtures Type " GP2 "Pendant fixture. 40.5" diameter	1	EA	363.00	363		
1328		Lighting Fixtures Type " GP3 " Pendant fixture. 42.5" diameter	4	EA	363.00	1,452		
1329		Lighting Fixtures Type " GP4 " Pendant fixture. 42.5" diameter	3	EA	363.00	1,089		
1330		Lighting Fixtures Type " GP5 " Pendant fixture. 42.5" diameter	3	EA	363.00	1,089		
1331		Lighting Fixtures Type " LR1c " - Linear Recessed, 6'	4	EA	363.00	1,452		
1332		Lighting Fixtures Type " LR2 " - Linear Recessed, 4'	14	EA	363.00	5,082		
1333		Lighting Fixtures Type " LR3 " - Linear Recessed, perimeter	78	LF	30.00	2,340		
1334		Lighting Fixtures Type " LR3A " - Linear Recessed, perimeter	16	LF	30.00	480		
1335		Lighting Fixtures Type " Exit lights "	57	EA	189.00	10,773		
1336		Feeders				-		
1337		3/4 " emt	39,576	LF	11.00	435,336		
1338		# 12 wire	118,728	LF	1.90	225,583		
1339						-		
1340		Lighting Control				-		
1341		S- Single pole Switch	27	EA	138.00	3,726		
1342		S- 3-way Switch	4	EA	138.00	552		
1343		SL- Digital Switch	115	EA	230.00	26,450		
1344		SLa- Digital Switch	2	EA	230.00	460		
1345		SLb- Digital Switch	2	EA	230.00	460		
1346		SLD- Digital Dimming Switch	166	EA	280.00	46,480		
1347		SLDa- Dimming Digital Switch	47	EA	280.00	13,160		
1348		SLDb- Dimming Digital Switch	48	EA	280.00	13,440		
1349		SLDc- Dimming Digital Switch	15	EA	280.00	4,200		
1350		SLDd- Dimming Digital Switch	5	EA	280.00	1,400		
1351		SLDaa- Dimming Digital Switch	3	EA	280.00	840		
1352		SLDbb- Dimming Digital Switch	3	EA	280.00	840		
1353		D- Photosensor	103	EA	500.00	51,500		
1354		OS1- Occupancy Sensor - Infrared Red with Switch	78	EA	300.00	23,400		
1355		OS2- Occupancy Sensor - Infrared & Ultrasonic	379	EA	300.00	113,700		
1356		OS3- Digital Ultrasonic Occupancy Sensor	170	EA	380.00	64,600		
1357		OS3- Occupancy Sensor - Infrared Red & Ultrasonic with Switch	3	EA	450.00	1,350		
1358		OS4- Occupancy Sensor - Infrared Red & Ultrasonic with Switch	12	EA	450.00	5,400		
1359		Lighting control panel	2	EA	5,500.00	11,000		
1360		3/4" conduit	11,820	LF	11.00	130,020		
1361		#12 wire	35,460	LF	1.90	67,374		



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1362		Cat 5E	6,225	LF	2.25	14,006		
1363		Exterior light controlled via time clock / contactor	1	LS	25,000.00	25,000		
1364		Allow lighting system: console, add. appurtenances, testing & programming, set off/on points, wall sleeves , firestopping, etc.	1	LS	5,000.00	5,000		
1365								
1366		Sub Total : Lighting, Circuitry & Lighting Controls				3,533,472		
1367								
1368	5020.2	Small Power (to Equip. & Devices)				-		
1369		<u>Branch Circuitry</u>						
1370		Duplex receptacle	724	EA	152.00	110,048		
1371		GFI duplex receptacle	177	EA	160.00	28,320		
1372		GFI duplex receptacle for hand dryer	20	EA	160.00	3,200		
1373		GFI duplex receptacle, WP w/in-use enclosure	26	EA	225.00	5,850		
1374		Quad receptacle	517	EA	165.00	85,305		
1375		GFI quad receptacle	71	EA	178.00	12,638		
1376		Special purpose receptacle -	33	EA	195.00	6,435		
1377		Furniture mounted Receptacle	96	EA	195.00	18,720		
1378		Flush mounted Receptacle floor box	7	EA	250.00	1,750		
1379		Junction boxes	47	EA	89.00	4,183		
1380		Junction boxes -WP	5	EA	120.00	600		
1381		Flush mounted twist lock receptacle	16	EA	350.00	5,600		
1382		Fire rated Poke-Thru Duplex Receptacle	8	EA	950.00	7,600		
1383		Local instructional AV presentation/TV receptacles	100	EA	155.00	15,500		
1384		3/4" emt	22,164	LF	11.00	243,804		
1385		#12 wire	66,492	LF	1.90	126,335		
1386		<u>Power to equipment and devices (F&I B.O.)</u>						below
1387		WC - water cooled power connection - JB	9	EA	89.00	801		
1388		OH - overhead door power connection - JB	15	EA	89.00	1,335		
1389		OHC - overhead door controller power connection - JB	12	EA	89.00	1,068		
1390		BC - drop down batting cage - JB	18	EA	89.00	1,602		
1391		SBC - JB	1	EA	89.00	89		
1392		BCB - bleacher control box - JB	8	EA	89.00	712		
1393		BW - basketball backstop winch key - JB	7	EA	89.00	623		
1394		CD - curtain divider - JB	19	EA	89.00	1,691		
1395		CDC - curtain divider controller - JB	1	EA	350.00	350		
1396		CG - Coiling gate box - JB	2	EA	89.00	178		
1397		CP - BC control panel - JB	18	EA	89.00	1,602		
1398		CT - cooktop - JB	1	EA	89.00	89		
1399		CUH	1	EA	89.00	89		
1400		DC- GYM - JB	25	EA	89.00	2,225		
1401		HS - wrestling light - JB	6	EA	89.00	534		
1402		Single receptacle - ceiling mounted for cord reels connection	104	EA	150.00	15,600		
1403		Single receptacle - ceiling mounted for DFC-/BC Ductless fan coil/ERU	353	EA	150.00	52,950		
1404		Thermal overload Toggle switch	24	EA	155.00	3,720		
1405		3/4" emt	33,165	LF	11.00	364,815		
1406		#12 wire	99,495	LF	1.90	189,041		
1407		CR - white cord reel with 12/3 46' SJEO cord.and black portable outlet box w/two duplex receptacle	104	EA	1,121.00	116,584		
1408		WP- 60A Disconnect switch c/w wiring	43	EA	1,200.00	51,600		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
1409		117A Disconnect switch c/w wiring	2	EA	2,500.00	5,000			
1410		100A Disconnect switch c/w wiring	1	EA	2,500.00	2,500			
1411		60A Disconnect switch c/w wiring	2	EA	800.00	1,600			
1412		50A Disconnect switch c/w wiring	6	EA	800.00	4,800			
1413		20A Disconnect switch c/w wiring	2	EA	500.00	1,000			
1414		30A Disconnect switch c/w wiring	63	EA	650.00	40,950			
1415									
1416		<u>Connection to Mechanical equipment</u>							
1417		Duplex air compressor - tank mounted with refrigerated dryer @ Carpentry, auto tech, auto body, and marine tech	2	EA	\$330.00	660			
1418		Compressed air system @ Dental classrooms	1	EA	\$330.00	330			
1419		Medical vacuum system @ Dental classrooms	1	EA	\$330.00	330			
1420		Water filtration system @ Dental classrooms	1	EA	\$330.00	330			
1421		Pump	18	EA	\$330.00	5,940			
1422		ERU	27	EA	\$330.00	8,910			
1423		ACCU	6	EA	\$330.00	1,980			
1424		VRF Rooftop	17	EA	\$330.00	5,610			
1425		VRF	279	EA	\$330.00	92,070			
1426		Condensate pump @ Split type air source heat pump unit	19	EA	\$330.00	6,270			
1427		Ductless split-type air conditioner	12	EA	\$330.00	3,960			
1428		Exhaust fan	8	EA	\$330.00	2,640			
1429		ECUH	35	EA	\$330.00	11,550			
1430		Water heater	2	EA	\$330.00	660			
1431		Radon system, level 01, power wiring	32	hr	219.00	7,008			
1432									
1433		Low Voltage Scope of Work by EC - Communication, Security and AV							below
1434		Includes back box, 1" - 3/4" empty conduit stub-up w/pull strings to nearest accessible ceiling.		Note		-			
1435		- Communication - tele/data, WAP's, speakers, etc.							
1436		Data Outlet x2	427	EA	60.00	25,620			
1437		Data Outlet x3	1	EA	75.00	75			
1438		Data Outlet x4	16	EA	85.00	1,360			
1439		Tele/Data Outlet x2	14	EA	60.00	840			
1440		Tele Outlet x1	4	EA	60.00	240			
1441		Tele Outlet x1 WP	45	EA	90.00	4,050			
1442		Empty Back Box	44	EA	60.00	2,640			
1443		Wireless access point Data outlet Data Outlet	104	EA	60.00	6,240			
1444		Wireless access point Data outlet Data Outlet With Enclosure	22	EA	65.00	1,430			
1445		Door Bell intercom Outlet	2	EA	60.00	120			
1446		POKE-THRU Data Outlet	40	EA	850.00	34,000			
1447		Floor Box Data Outlet	29	EA	850.00	24,650			
1448		CCTV Data Outlet	131	EA	85.00	11,135			
1449		Bluetooth Outlet	2	EA	90.00	180			
1450		PA Speakers	443	EA	75.00	33,225			
1451		Horn PA speakers	72	EA	85.00	6,120			
1452		Volume controls	80	EA	85.00	6,800			
1453		3/4" emt	15,110	LF	11.00	166,210			
1454		12" Cable Ladder	420	LF	49.00	20,580			



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
1455		<u>- Security and access control - card readers, key pad, CCTV camera, electric hardware</u>						
1456		Proximity/Card Readers		81	EA	55.00	4,455	
1457		3/4" emt		1,620	LF	11.00	17,820	
1458		Door Contacts		64	EA	35.00	2,240	
1459		Motion Sensors		64	EA	35.00	2,240	
1460		Beacon		3	EA	100.00	300	
1461		Sirens		13	EA	35.00	455	
1462		Keypads		3	EA	35.00	105	
1463		3/4" emt		5,145	LF	11.00	56,595	
1464		#12 wire		10,290	LF	1.90	19,551	
1465		Building Exterior Cameras		78	EA	90.00	7,020	
1466		Building Interior Cameras		131	EA	90.00	11,790	
1467		LV cable for Site pole camera		28,080	LF	2.70	75,816	
1468		3/4" emt for interior camera		11,790	LF	11.00	129,690	
1469		RGS Conduit for Site pole camera		9,360	LF	16.00	149,760	
1470		- Audiovisual -video projector, flat screens, room schedulers, etc.						
1471		HBTx- High video presentation outlet		75	EA	90.00	6,750	
1472		LBTx- Low video presentation outlet		75	EA	90.00	6,750	
1473		VH-High video outlet		21	EA	90.00	1,890	
1474		VCE-Video ceiling outlet		4	EA	90.00	360	
1475		DAN- Dante Input Wall Plate Back Box		35	EA	35.00	1,225	
1476		AIP- Audio Input wall plate		2	EA	35.00	70	
1477		VIP- Video Input wall plate		2	EA	35.00	70	
1478		1 to 3/4" emt		5,350	LF	11.00	58,850	
1479		#12 wire		16,050	LF	1.90	30,495	
1480		VES-Video/Audio Entrance station		4	EA	35.00	140	
1481		VMS-Video/Monitor?hanset master station		5	EA	35.00	175	
1482		1 to 3/4" emt		675	LF	11.00	7,425	
1483								
1484		Sub Total : Small Power (to Equip. & Devices)					2,624,835	
1485								
1486	5020.2	Communications					-	
1487		<u>TEL/DATA & A-V CABLING</u>						
1488		Cat. 6E UTP Horizontal Cabling and Patch Cables - Data		102,320	LF	2.30	235,336	
1489		Cat. 6E UTP Horizontal Cabling and Patch Cables - Voice		3,920	LF	2.30	9,016	
1490		RJ 45 Back Boxes		1,328	EA	25.00	33,200	
1491		1-1/4" emt		92,960	LF	14.00	1,301,440	
1492		WAP Wall Enclosures		22	EA	200.00	4,400	
1493		MDF Closet (IDF & Site Fiber Cables, Racks, Patch Panels, etc.)		1	EA	10,000.00	10,000	
1494		IDF Closet Fiber Cable, Racks, Patch Panels, etc.)		6	EA	3,000.00	18,000	
1495								
1496		<u>Audiovisual cabling.</u>						
1497		DAN- Dante Input Wall Plate Back Box		35	EA	35.00	1,225	
1498		Face Plates -Flat Panel		96	EA	35.00	3,360	
1499		AIP,VIP Faceplate		4	EA	35.00	140	
1500		AV in-Wall Cabling			INC		-	
1501		HDMI		96	EA	\$70.00	6,720	
1502		3.5mm		96	EA	\$110.00	10,560	
1503		Patch Cables/Line Cords						



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Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	
							Total \$	Subtotal Trades	
1504		HDMI	192	EA	70.00		13,440		
1505		3.5mm	192	EA	110.00		21,120		
1506		Cat. 6 UTP Horizontal Cabling and Patch Cables - Data	2,100	LF	2.30		4,830		
1507		Control cable 14 AWG	2,000	LF	2.30		4,600		
1508		DMX512 Cable	7,200	LF	2.70		19,440		
1509									
1510		IPTV AND VIDEO ON DEMAND SYSTEM	1	LS	\$360,000.00		360,000		
1511		TV Distribution	1	LS			-		Included in lump sum
1512		Media control	1	LS			-		Included in lump sum
1513		Decoders	96	EA			-		Included in lump sum
1514		Digital Signage							
1515		Flat Panel TV Monitors	21	EA			-		Included in lump sum
1516		Video on demand	1	EA			-		Included in lump sum
1517		Origination broadcasting	1	EA			-		Included in lump sum
1518		Master Stations	5	EA			-		Included in lump sum
1519		Video Intercom Door Stations	4	EA			-		Included in lump sum
1520		Cat. 6 UTP Horizontal Cabling and Patch Cables - Data	1,080	LF			-		Included in lump sum
1521									
1522		Public Address System							
1523		Console							
1524		PA Speakers	443	EA	250.00		110,750		
1525		Horn PA speakers	72	EA	300.00		21,600		
1526		Volume controls	80	EA	300.00		24,000		
1527		Interfaces: master clock, voice system ans local sound system	1	LS	10,000.00		10,000		
1528		RG-8U coax - 24 VAC	20,825	lf	2.90		60,393		
1529		Public address master station console	1	ea	30,000.00		30,000		
1530									
1531		Clock System							
1532		GPS master clock	1	INC	10,000.00		10,000		
1533		12" diam. Secondary clock	168	EA	300.00		50,400		
1534		RG-8U coax - 24 VAC	9,240	lf	2.90		26,796		
1535									
1536		Large venue audiovisual systems							below
1537		Gymnasium							
1538		Sound System (Sound System Sound Headend Equipment, Speakers, Microphones, Assisted Listening, Control System, Cabling, Installation)	1	LS	\$115,000.00		115,000		
1539		Video System (Projection Screen, Video Projector, AV Switch, Control System, Cabling, Installation)	1	LS	59,000.00		59,000		
1540									
1541		Auditorium/Stage							
1542		Sound System (Sound System Sound Headend Equipment, Speakers, Microphones, Assisted Listening, Control System, Cabling, Installation)	1	LS	\$198,000.00		198,000		
1543		Video System (Projection Screen, Video Projector, AV Switch, Control System, Cabling, Installation)	1	LS	\$59,000.00		59,000		
1544									
1545		Student Commons							
1546		Sound System (Sound Headend Equipment, Speakers, Microphones, Mixing Board, Assisted Listening, Cabling, Installation)	1	LS	\$95,000.00		95,000		



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1547		Video System (Projection Screen, Video Projector, AV Switch, Control System, Cabling, Installation)	1	LS	\$59,000.00	59,000		
1548								
1549		Fitness Center						
1550		Sound System (Sound Headend Equipment, Speakers, Microphones, Control System, Cabling,	1	LS	\$15,500.00	15,500		
1551								
1552		Weights						
1553		Sound System (Sound Headend Equipment, Speakers, Microphones, Control System, Cabling,	1	LS	\$15,500.00	15,500		
1554								
1555		Classroom Speech Reinforcement Systems						
1556		Wireless ceiling panel system (with hard wire electrical service)- 60 pieces	1	LS	\$149,270.00	149,270		
1557								
1558		Instructional Audiovisual System						
1559		Classroom & Conference Room Interactive Flat panel display system (Total 75 ea)	1	LS	\$364,320.00	364,320		
1560		Mount						
1561		Installation						
1562		Programming						
1563		Documentation						
1564		Training						
1565								
1566		Sub Total : Communications					3,530,356	
1567								
1568	5030.2	Security					-	
1569		Duress/Panic Alarm System	1	ls	85,000.00	85,000		
1570		Notify 2.0 Network Application (3-years)		EA		-		included in lump sum
1571		Controller		EA		-		included in lump sum
1572		Wireless Repeaters		EA		-		included in lump sum
1573		Office Panel		EA		-		included in lump sum
1574		Wireless Panic / Duress Button	47	EA		-		included in lump sum
1575		Interfaces		EA		-		included in lump sum
1576		Intrusion Dialer		EA		-		included in lump sum
1577		Access Control		EA		-		included in lump sum
1578		IPTV Video Notification		EA		-		included in lump sum
1579		Public Address Audio Notification		EA		-		included in lump sum
1580		2-way Radio		EA		-		included in lump sum
1581		Mass Notification		EA		-		included in lump sum
1582		Email/Text Notification		EA		-		included in lump sum
1583		Controller		EA		-		included in lump sum
1584		Visitor Door Entry System						
1585		Master Stations	5	EA	3,500.00	17,500		
1586		Video Intercom Door Stations	4	EA	2,000.00	8,000		
1587		Multi-Tenant Video Intercom Door Stations	1	EA	2,000.00	2,000		
1588								
1589		Intrusion Detection Equipment and Cabling						
1590		Door Contacts	64	EA	100.00	6,400		
1591		Motion Sensors	64	EA	330.00	21,120		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION		
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF	Subtotal Trades
1592		Control Panel	5	EA	3,500.00	17,500			
1593		Beacon	3	EA	250.00	750			
1594		Sirens	13	EA	250.00	3,250			
1595		Keypads	3	EA	1,200.00	3,600			
1596		Cabling	10,800	LF	2.50	27,000			
1597		Integrated / Converged Access Control and CCTV Surveillance System							
1598		Proximity/Card Readers	82	EA	750.00	61,500			
1599		Main Controller (32 portal License)	3	EA	\$5,000.00	15,000			
1600		Network Nodes (Up to 8 Readers)	11	EA	3,500.00	38,500			
1601		Intrusion Alarm Control Panel Integration S/W License	1	EA	5,000.00	5,000			
1602		Data Base Workstation	2	EA	10,000.00	20,000			
1603		Identity Management S/W System	1	EA	\$5,000.00	5,000			
1604		Fobs/Cards	600	EA	\$5.00	3,000			
1605		Security Card Reader Wiring	12,300	LF	3.20	39,360			
1606									
1607		Site Pole Cameras - w/ Pole Mount - Drives & Parking Lots	74	EA	\$2,500.00	185,000			
1608		Site Pole Cameras - 5MP/IR w/ Pole Mount - Fields	4	EA	\$2,000.00	8,000			
1609		NEMA Enclosure for Poles	74	EA	\$500.00	37,000			
1610		Fiber Transceivers & Power Supplies/Transformers	74	EA	\$500.00	37,000			
1611		Building Exterior Cameras	20	EA	\$1,500.00	30,000			
1612		Building Interior Cameras	111	EA	\$1,000.00	111,000			
1613		PoE Switches (Edge)	15	EA	\$2,500.00	37,500			
1614		PoE Switches (Aggregate)	1	EA	\$3,000.00	3,000			
1615		View Station with large monitor	2	EA	\$10,000.00	20,000			
1616		Network Video Recorder (NVR) with Video Management System	3	EA	\$1,500.00	4,500			
1617		IP CCTV Camera Licenses	209	EA	150.00	31,350			
1618		Fiber Cabling	500	LF	3.50	1,750			
1619		Cat 6E Cabling	33,440	LF	3.20	107,008			
1620									
1621		Sub Total : Security				992,588			
1622									
1623	5030.3	Other Security Systems				-			
1624		<u>Grounding and Bonding</u>							
1625		Grounding and Bonding	1	EA	\$25,000.00	25,000			
1626		Short circuit study	1	EA	25,100.00	25,100			
1627		Testing/commissioning	1	EA	24,900.00	24,900			
1628		Trade Requirements: coordination w/other trades, rigging & handling, vibration & isolation, panels, circuits and wiring identification/labeling, tags, charts, core drills, sleeves and firestopping.	1	EA	\$15,000.00	15,000			
1629		Sub Market Adjustment and material distribution	1	EA	100,000.00	100,000			
1630		Supervision/PM	1	EA	\$150,000.00	150,000			
1631		Permit & Fees	1	EA	\$80,000.00	80,000			
1632		<u>Provisions: for roof mounted PV system</u>							
1633		2" RGS (empty) - for future PV System	300	LF	50.03	15,009			
1634		4" RGS (empty) - for future PV System	150	LF	136.80	20,520			
1635		Pull box, WP - for future PV System	6	EA	750.00	4,500			
1636		<u>Lighting protection/grounding system</u>	281,500	SF	0.65	182,975			



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1637			- Consistent of (4) grounding rods & #4/0 bare copper conductor, connection to structure, equipment, ductwork, conduit, etc. as required. The system shall be connected to provide and independent fault return to source.		INC		-	
1638			- Equipment and cable necessary to provide a complete lighting protection system consistent of tinned copper materials such air terminals and mount, cable connection to terminals, loop guard cable fasteners, exterior thermalizing, etc.		INC		-	
1639			Testing/commissioning	281,500	SF	1.25	351,875	
1640			Trade Requirements: coordination w/other trades, rigging & handling, vibration & isolation, panels, circuits and wiring identification/labeling, tags, charts, core drills, sleeves and firestopping.	281,500	SF	1.90	534,850	
1641			Supervision/PM	1	LS	167,000.00	167,000	
1642			Temporary power and light	281,500	GSF	\$1.70	478,550	
1643								
1644			Sub Total : Other Security Systems				2,175,279	
1645								
1646	5030.4		Fire alarm				-	
1647			Fire Alarm System					
1648			Fire alarm control panel	1	EA	27,000.00	27,000	
1649			Smoke purge control panel- excl.	1	EA	4,200.00	4,200	
1650			60 Amp NEMA 1 disconnect switch	1	INC	500.00	500	
1651			Fire alarm remote annunciator w/microphone and speaker	1	EA	2,200.00	2,200	
1652			MNAMP- mass notification high power exterior array amplifier	2	EA	2,600.00	5,200	
1653			MSPK- mass notification high power exterior speaker array, pole mounted - 3' above roof line	2	EA	3,000.00	6,000	
1654			Fire alarm FCO	1	INC		-	
1655			MSB - wall mounted addressable textual notification appliance (text message). LAN connection	1	EA	2,500.00	2,500	
1656			DACT - two dedicated telephone lines	1	EA	500.00	500	
1657			Fire alarm cellular communicator	1	EA	1,800.00	1,800	
1658			Booster power supply	1	INC	1,500.00	1,500	
1659			Printer	1	INC	500.00	500	
1660			Combination horn/strobe	230	EA	280.00	64,400	
1661			Strobe light	162	EA	250.00	40,500	
1662			F - Manual pull station	57	EA	280.00	15,960	
1663			Wall mounted fire alarm radio master box	1	EA	500.00	500	
1664			S- mass notification addressable speaker	15	EA	350.00	5,250	
1665			M- mass notification addressable visible only strobe unit	409	EA	350.00	143,150	
1666			Fire alarm key box	1	EA	350.00	350	
1667			Fire alarm post indicating switch	1	EA	250.00	250	
1668			Smoke detector	169	EA	250.00	42,250	
1669			Smoke detector, duct mounted (Furnished and wire by EC, installed by MC	16	EA	350.00	5,600	
1670			RTS - remote test station for duct smoke detector	16	EA	250.00	4,000	
1671			Fire alarm remote indicator LED	13	EA	814.00	10,582	
1672			Heat detector	5	EA	250.00	1,250	
1673			Carbon monoxide detector	4	EA	350.00	1,400	
1674			Pressure switch	1	INC	350.00	350	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
1675			Tamper and waterflow switches	2	EA	350.00	700	
1676			CR - fire alarm addressable control relay module	25	EA	405.00	10,125	
1677			IM - Fire alarm addressable isolation module	4	EA	405.00	1,620	
1678			M - monitor module	31	EA	350.00	10,850	
1679			Fire alarm Beacon	1	EA	250.00	250	
1680			3/4" emt	29,075	LF	11.00	319,825	
1681			2#14	58,150	LF	1.85	107,578	
1682			2#16 (combined devices only)	29,075	LF	1.35	39,251	
1683			Cable cat.6	500	LF	2.90	1,450	
1684			Programming/testing/fees	1	LS	29,075.00	29,075	
1685			Integration with security system.	1	LS	10,000.00	10,000	
1686			Miscellaneous FA work (hangers, support, signage, etc.)	1	LS	10,000.00	10,000	
1687			Eliminate Temporary Fire Alarm Heat Detection Coverage- #20	1	LS	293,479.70	293,480	
1688			Utilize Fire Alarm MC cable in lieu of EMT for Branch	1	LS	182,712.03	182,712	
1689								
1690			Sub Total : Fire alarm				1,404,607	
1691								
1692								
1693			SUBTOTAL FOR SERVICES				End of Trade	\$ 22,273,143
1694								
1695								
1696	E		EQUIPMENT & FURNISHINGS					
1697	E10		Equipment					
1698		E1010	Commercial Equipment					
1699			Not used				-	
1700								
1701			Sub Total : Commercial Equipment				-	
1702								
1703		E1020.1	Institutional Equipment				-	
1704			Not used					
1705								
1706			Sub Total : Institutional Equipment				-	
1707								
1708		E1020.2	Arts and Drama Equipment				-	
1709			See Page 580/763 from DD Project Manual					
1710			Acoustic reflector Panels and towers at Multi-Purpose Room- TBD	1	alw	75,000.00	75,000	
1711			Stage Rigging- Multi -Purpose Room	1	ls	92,000.00	92,000	
1712			Stage Rigging- TV Studio	1	ls	19,500.00	19,500	
1713			Stage Drapery- Multi -Purpose Room	1	ls	32,500.00	32,500	
1714			Stage Drapery- TV studio	1	ls	4,000.00	4,000	
1715			Stage Dimming and Controls- Multi -Purpose Room	1	ls	175,000.00	175,000	
1716			Stage Dimming and Controls- TV studio	1	ls	45,000.00	45,000	
1717			Stage Lighting Fixtures- Multi -Purpose Room	1	ls	204,720.00	204,720	
1718			Stage Lighting Fixtures- TV studio	1	ls	45,345.00	45,345	
1719			Allowance for installation and electrical hookups	248	hr	198.00	49,104	
1720			Theater rigging and draper, budget	1	ls	800,000.00	800,000	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1721								
1722								
1723								
1724	E1020.3	Projection Screen					-	
1725		16' x 12' Projectors Screens - including surround, housing, steel support, ceiling boxouts etc	3	EA	15,000.00		45,000	
1726		10' x 8' Projectors Screens - including surround, housing, steel support, ceiling boxouts etc	1	EA	5,000.00		5,000	
1727								
1728								
1729								
1730	E1020.3	Cosmetology Equipment					-	
1731		Cosmetology - Connection allowance for Electric, Plumbing and HVAC	320	hr	245.00		78,400	
1732								
1733								
1734								
1735	E1030.1	Vehicular Equipment						
1736		Install relocated/new vehicle lifts	10	ea	2,280.00		22,800	
1737								
1738								
1739								
1740	E1030	Laundry Equipment						
1741		Washer, residential grade	6	EA	1,100.00		6,600	
1742		Dryer, residential grade	6	EA	1,100.00		6,600	
1743								
1744								
1745								
1746	E1030	Gymnasium Equipment						
1747		11 48 00 - GYMNSIUM EQUIPMENT					-	
1748		Motorized retractable basketball backboard	6	ea	10,500.00		63,000	
1749		Gym Divider Roll up curtain	103	lf	460.00		47,380	
1750		Volleyball Inserts	1	ls	6,000.00		6,000	
1751		Scoreboard with remote controllers	1	ea	50,000.00		50,000	
1752		Shot clocks	1	ls	10,000.00		10,000	
1753		Gym batting cage	1	ea	9,000.00		9,000	
1754		Gym wall pads	3,321	sf	15.00		49,815	
1755		Wrestling mat	1,764	sf	5.10		9,000	
1756		Wrestling mat lifter	1	ea	27,000.00		27,000	
1757								
1758								
1759								
1760	E1090.1	Kitchen Equipment						
1761		Food Service Equipment - Culinary	1	ls	1,169,650.00		1,169,650	
1762		Culinary Arts	1	ls	837,760.00		837,760	
1763								



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1764			Sub Total : Kitchen Equipment				2,007,410	
1765								
1766	E1090.1	Lab Equipment						
1767		Equipment at lab spaces	1	LS	10,000.00	10,000		
1768								
1769		Sub Total : Lab Equipment					10,000	
1770								
1771	E1090	Other Equipment						
1772		Not used						
1773								
1774		Sub Total : Other Equipment					-	
1775								
1776		SUBTOTAL FOR Equipment					End of Trade	\$ 3,995,174
1777								
1778								
1779	E20	Furnishings						
1780	E2010	Fixed Furnishings						
1781		Mats at vestibules	1	LS	15,000.00	15,000		
1782		Auditorium Seating- at upper auditorium	345	EA	1,000.00	345,000		
1783		Auditorium Acoustics- excluding acoustic panels	1	LS	150,000.00	150,000		
1784		Fabric Wrapped Acoustic Panels @ gym & auditorium	1,284	SF	32.00	41,088		
1785		Window Treatment- @ exterior windows, manual	15,742	sf	8.00	125,933		
1786		Window Treatment- @ interior glazing	2,000	sf	8.00	16,000		
1787		Window Treatment- @ exterior CW assembly, motorized	8,500	SF	35.00	297,500		
1788		Operable window allowance	1	LS	15,000.00	15,000		
1789		Tray-type vegetated wall assemblies with irrigation system and lighting (BOD Live Wall LLC)	1	ALLW	25,000.00	25,000		
1790		Furnishings, other at misc locations	1	LS	64,800.00	64,800		
1791								
1792		Sub Total : Fixed Furnishings					1,095,321	
1793								
1794	E2010	Fixed Furnishings - Casework						
1795		Casework- Millwork, Div 064000						
1796		Display Cases at First and Second floor	10	EA	7,500.00	75,000		
1797		CTR-01 Counter w/dividers MDF	7	LF	800.00	5,200		
1798		CTR-09 Counter w/dividers MDF	23	LF	800.00	18,064		
1799		CTR-10 - Counter MDL - TC-06	13	LF	800.00	10,400		
1800		CTR-11 Counter w/dividers MDF	16	LF	800.00	12,800		
1801		CTR-12 Counter w/dividers MDF	48	LF	800.00	38,400		
1802		CTR-13 Counter w/dividers MDF	34	LF	800.00	27,200		
1803		CTR-14 Counter w/dividers MDF	9	LF	800.00	7,200		
1804		T15 - Cubicles	41	LF	1,300.00	53,300		
1805		T30SDdiv - Cubicles	196	LF	350.00	68,600		
1806		T362RL_GS - Cabinet	231	LF	1,300.00	300,300		
1807		T362RL-W - Cabinet	12	LF	1,300.00	15,600		
1808		T362RL - Full Height Cabinet	24	LF	1,800.00	43,200		
1809		MS36 - Mail Boxes - MC07	10	LF	1,500.00	15,000		



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NEW CONSTRUCTION				BUILDING AREA	281,500 GSF	NEW CONSTRUCTION
Description	Quantity	Unit	Unit Price	Area of New	281,500 GSF	
				Total \$	Subtotal Trades	
1810	Lockers, Div 105000					
1811	T15S - 3 Tier Lockers	36	LF	490.00	17,640	
1812	TCS2 - Base Lockers	3	LF	450.00	1,444	
1813	TCS3 - Base Lockers	4	LF	450.00	1,866	
1814	TCS6 - Base Lockers	8	LF	450.00	3,694	
1815	TCS9 - Base Lockers	11	LF	450.00	5,063	
1816	Lab Areas, Base Cabinets					
1817	DW-1 - Bottom Cabinet - SC-05	4	LF	950.00	3,800	
1818	ADA42 - Bottom Cabinet	4	LF	950.00	3,325	
1819	B1050 - Bottom Cubicle	9	LF	950.00	8,550	
1820	B18D1L - Bottom Cabinet w. drawer	5	LF	950.00	4,750	
1821	B24D2RL - Bottom Cabinet w. drawers	13	LF	950.00	12,350	
1822	B2502 - Bottom Cabinet	12	LF	950.00	11,400	
1823	B27D2RL - Bottom Cabinet w. drawers	38	LF	950.00	36,100	
1824	B27RL - Bottom Counter w. drawers	14	LF	950.00	12,825	
1825	B30 - Bottom Open Cabinet	26	LF	950.00	24,700	
1826	B30D2RL - Bottom Cabinet w. drawers	23	LF	950.00	21,850	
1827	B33 - Bottom Open Cabinet sink base cabinet	59	LF	950.00	56,050	
1828	B33D1RL - Bottom Cabinet w. drawers	6	LF	950.00	5,225	
1829	B33D2RJ - Bottom Cabinet w. drawers	8	LF	950.00	7,838	
1830	B33D2RL - Bottom Cabinet w. drawers	204	LF	950.00	193,800	
1831	B33RL - Bottom Cabinet sink base cabinet	36	LF	950.00	34,200	
1832	B36D2RL - Bottom Cabinet w.drawers	204	LF	950.00	193,800	
1833	DW-1 - Bottom Cabinet dishwasher cabinet	4	LF	950.00	3,800	
1834	SB30RL - Bottom Cabinet	6	LF	950.00	5,700	
1835	SB36ADA - Bottom Cabinet	9	LF	950.00	8,550	
1836	SB36RL - Bottom Cabinet	93	LF	950.00	88,350	
1837	SB39D2RL - Bottom Cabinet	77	LF	950.00	73,150	
1838	SB39RL - Bottom Cabinet	100	LF	950.00	95,000	
1839	W36KD2 - Bottom Cabinet	6	LF	950.00	5,700	
1840	Lab Areas, Wall Cabinets					
1841	W18R - Top Cabinet	2	LF	600.00	900	
1842	W24RI - Top Cabinet	13	LF	600.00	7,800	
1843	W27RL - Top Cabinet	38	LF	600.00	22,800	
1844	W30RL - Top Cabinet	90	LF	600.00	54,000	
1845	W36RLD - Top Cabinet	30	LF	600.00	18,000	
1846	W36RLS - Top Cabinet	25	LF	600.00	15,000	
1847	W39RL - Top Cabinet	72	LF	600.00	43,200	
1848	W48RL - Top Cabinet	24	LF	600.00	14,400	
1849	Lab Areas, Epoxy Tops					
1850	CTR-01 - Counter	648	LF	300.00	194,400	
1851	CTR-02 - Counter	41	LF	300.00	12,300	
1852	CTR-03 - Counter	36	LF	300.00	10,650	
1853	CTR-09 - Counter	46	LF	300.00	13,725	
1854	CTR-10 - Counter	18	LF	300.00	5,400	
1855	CTR-12 - Counter	46	LF	300.00	13,800	
1856	Lab Areas, Other Items					
1857	Peg racks	40	EA	800.00	32,000	
1858						



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1859			Sub Total : Fixed Furnishings - Casework				2,089,157	
1860								
1861	E2020		Moveable Furnishings					
1862			Retractable Bleachers at gym	1,150	seat	345.00	396,750	
1863			Telescoping bleachers with padded seats at auditorium	345	seat	1,450.00	500,250	
1864			5-Row bleacher x3 (135 seat capacity)	400	ea	400.00	160,000	
1865								
1866			Sub Total : Moveable Furnishings				1,057,000	
1867								
1868								
1869			SUBTOTAL FOR Furnishings				End of Trade	\$ 4,241,478
1870								
1871								
1872	F		SPECIAL CONSTRUCTION & DEMOLITION					
1873	F10		Special Construction					
1874			Press box, includes transport, erection, connection to power.				-	Taken with sports field
1875								
1876			Sub Total : Special Construction				-	
1877								
1878								
1879	F20		Selective Building Demolition					
1880	F2010		Building Elements Demolition - Selective					
1881			Electrical work associated with removal of existing building, including temp. electrics, Cut, cap and make safe	1	LS	41,000.00	41,000	
1882								
1883			Sub Total : Building Elements Demolition - Selective				41,000	
1884								
1885	F2010		Building Elements Demolition - Demolished Structures					
1886			<u>Main Building Removal</u>				-	
1887			Removal of extg building at completion of project	285,000	SF	9.50	2,707,500	
1888			Fire watch during demo.				-	included
1889			Break up slab, foundations and underground utilities	173,549	SF	4.00	694,196	
1890			Remove 1 story wood frame garage	3,300	SF	6.00	19,800	
1891			Remove existing 1-story structure and pads at practice fields	1	LS	10,000.00	10,000	
1892								
1893			Sub Total : Building Elements Demolition - Demolished Structures				3,431,496	
1894								
1895	F2020		Hazardous Components Abatement					
1896			Budget Amount from 08-23-2024 Report	1	LS	809,886.00	809,886	
1897								
1898			Sub Total : Hazardous Components Abatement				809,886	
1899								
1900			SUBTOTAL FOR SPECIAL CONSTRUCTION & DEMOLITION				End of Trade	\$ 4,282,382
1901								
1902	G		SITWORK					



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
1903	G10	Site Preparation						
1904		Clearing & grubbing-		1	LS	30,000.00	30,000	
1905		Pruning of Exist. Trees by Licensed Arborist-		1	LS	12,000.00	12,000	
1906		Tree Removals (12"-18" dia.)		83	EA	1,250.00	103,750	
1907		Remove and dispose of topsoil		8,850	CY	39.00	345,150	
1908		Remove- Temp. Constriction Fencing @ Project Completion		7,402	LF	12.00	88,824	
1909		Temporary Construction Fencing w/Scrim (8')		5,000	LF	30.00	150,000	
1910		Construction gates; allow		2	PR	5,000.00	10,000	
1911		Snow removal		1	ALLW	75,000.00	75,000	
1912		Police details					-	
1913								
1914		Sub Total : Site Preparation					814,724	
1915								
1916	G1020	Site Demolition & Relocations						
1917		Demo. Ex. Paving at existing paved road and parking lots, and reuse as base		20,450	SY	13.50	276,075	
1918		Demo. Track bitumen concrete paving; Events		143	SY	11.00	1,573	included with track
1919		Remove temporary 3" Bituminous Loop Road		12,200	SF	0.80	9,760	
1920		Remove temporary 3" Bituminous Paving w/in Lds. Island of Parking Lot		3,372	SF	0.80	2,698	
1921		Remove & Load- Temporary 3" Bituminous Paving w/in Lds. Island of Parking Lot		3,372	SF	1.20	4,046	
1922		Demo Bituminous Concrete Track Paving		44,793	SF	1.50	67,190	
1923		Demo Concrete Sidewalks		43,900	SF	3.00	131,700	
1924		Demo Concrete Site Stairs		650	SF	8.50	5,525	
1925		Demo Concrete Site Pads		3,100	SF	6.00	18,600	
1926		D Demo Concrete Site Ramp		580	SF	10.50	6,090	
1927		Demo./Recycle Granite Curbing		8,500	LF	12.00	102,000	
1928		Demo Clay Mix @ Ballfields (4")		316	CY	14.00	4,424	
1929		Demo Sand @ Sport Pits (24")		45	CY	14.00	630	
1930		Demo; Stone dust Shot Put Landing Area (6")		15	CY	14.00	210	
1931		Concrete wall to be removed		2,972	SF	20.00	59,440	
1932		Utilities demo; water pipe		160	LF	16.00	2,560	
1933		Utilities demo; Hydrants and gate		5	EA	1,500.00	7,500	
1934		Utilities demo; 8" RCP Lines		253	LF	22.00	5,566	
1935		Utilities demo; 12"-15 RCP		4,309	LF	26.00	112,034	
1936		Utilities demo; 18" RCP		1,450	LF	28.00	40,600	
1937		Utilities demo; 21" RCP		270	LF	30.00	8,100	
1938		Utilities demo; 30" RCP		290	LF	35.00	10,150	
1939		Utilities demo drain Manholes		8	EA	1,800.00	14,400	
1940		Utilities demo sewer Manholes		3	EA	2,000.00	6,000	
1941		Utilities demo; gas pipe		560	LF	24.00	13,440	
1942		Utilities demo; sewer pipe		1,096	LF	28.00	30,688	
1943		Utilities demo; 12" CMP line		32	LF	36.00	1,152	
1944		Utilities demo; Site Light Raceways		2,635	LF	5.60	14,756	
1945		Utilities demo; CATV Service Lines		130	LF	28.00	3,640	
1946		Utilities demo; Lectical Service Lines		250	LF	28.00	7,000	
1947		Utilities demo; Lectica Lines		1,416	LF	18.00	25,488	
1948		Utilities demo Light Poles w/ Bases		22	EA	320.00	7,040	
1949		Utilities demo Light Bollard w/ Bases		6	EA	250.00	1,500	



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
1950		Preserve and protect existing 2-story masonry building	860	SF	3.00	2,580		
1951		Preserve and protect flagpole and scoreboard	1	LS	545.00	545		
1952		Tree Protection Fencing	250	LF	14.00	3,500		
1953		Street Sweeping	1	AL	76,000.00	76,000		
1954		Extg pavement sawcuttings and removals	1	ls	67,000.00	67,000		
1955								
1956		Sub Total : Site Demolition & Relocations				1,151,200		
1957								
1958	G1030	Site Earthwork						
1959		Temporary traffic controls	1	LS	19,669.00	19,669		
1960		Survey/layout	1	LS	140,000.00	140,000		
1961		Fine Grading; bituminous pavements	24,412	SY	2.50	61,029		
1962		Fine Grading; Pedestrian sidewalks/ concrete pad	4,425	SY	2.50	11,062		
1963		Fine Grading; Bituminous Running Track, Long/Triple Lanes & D-Zone Areas	6,390	SY	2.50	15,976		
1964		Fine Grading; Playground Surfaces	158	SY	2.50	394		
1965		Fine Grading; High Jump	5,830	SY	2.50	14,575		
1966		Fine Grading; New practice fields Pads	297	SY	2.50	743		
1967		Fine Grading; New practice fields	9,935	SY	2.50	24,836		
1968		Fine Grading; New Softball field	5,526	SY	2.50	13,815		
1969		Fine Grading; New Baseball field	10,568	SY	2.50	26,421		
1970								
1971		Site cut	36,600	CY	12.00	439,200		
1972		Infiltration systems #3; cut	1,850	CY	16.00	29,600		
1973		Backfill	410	CY	20.00	8,200		
1974		Dispose;- EBP #1 "Unsuitable/ Unusable" Soil to Offsite Disposal Facility "Clean	69,483	CY	32.00	2,223,451		
1975		Dispose; Final Phase "Unsuitable/ Unusable" Soil to Offsite Disposal Facility "Clean	43,114	CY	32.00	1,379,634		
1976		Import- "Common Fills" to Site Fills Required	58,250	CY	26.00	1,514,500		
1977		Rock Drilling & Blasting (Site)	1,930	CY	280.00	540,400		
1978		Culling, Handling & Disposal of Exist. Buried Site Cobbles & Boulders (Allowance)	500	CY	180.00	90,000		
1979		Rock Disposal (Site)	4,306	CY	34.00	146,419		
1980		Sitework Assistance moving Blasting Mats	1	LS	20,000.00	20,000		
1981		3/8" Stemming Stone for Blasting Operations	1	LS	1,500.00	1,500		
1982		Fire Details	1	LS	5,000.00	5,000		
1983		Hoe-Ram Equipment Rental Duration for Onsite Use to Overbreak Blast Rock	1	LS	32,000.00	32,000		
1984		Preblast Survey	1	LS	5,000.00	5,000		
1985		Structural fill ; Generator pad	28	cy	42.00	1,176		
1986		Structural fill ; Transformer Pads	15	cy	42.00	630		
1987		Structural fill ; Utility Pads	30	cy	42.00	1,260		
1988		Structural fill, extg building foundation system	5,600	cy	42.00	235,200		
1989								
1990		Gravel Base; asphalt roadway and parking lot	8,951	CY	58.00	519,157		
1991		Geogrid beneath Gravel Parking Area	4,240	SF	3.00	12,720		
1992		Gravel Base; concrete pavement	1,280	CY	58.00	74,240		
1993		Dense Grade Crushed Stoneh; Vehicular Concrete Pavements	482	cy	52.00	25,071		



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
1994		Gravel Base beneath Cement Concrete Entrance Pads to School Building	902	CY	58.00	52,316		
1995		Gravel base; Bleacher stand Concrete pad// Press box stand	167	CY	58.00	9,688		See G1030
1996								
1997		Compost Filter Socks w/ Silt Fencing	560	LF	26.00	14,560		
1998		Silt Fence Maintenance and Monitoring	560	LF	5.00	2,800		
1999		Haybale at stockpile area	284	LF	10.50	2,982		
2000		Filter sacks at catch basins	48	EA	200.00	9,600		
2001		Check dam	8	EA	450.00	3,600		
2002		Remove Erosion Control Measure at project completion	6,820	LF	3.00	20,460		
2003						-		
2004		Wetland replication area	3,394	SF	20.00	67,880		
2005		Radon system, level 01, excavation/backfill-trenching	600	CY	44.00	26,400		
2006								
2007		Sub Total : Site Earthwork				7,843,166		
2008								
2009	G1040	Hazardous Waste Remediation						
2010		R & D- U.G. Fuel Oil Storage Tanks	1	EA	35,000.00	35,000		
2011								
2012		Sub Total : Hazardous Waste Remediation				35,000		
2013								
2014		SUBTOTAL FOR Site Preparation				End of Trade	\$ 9,844,090	
2015								
2016	G20	Site Improvements						
2017	G2010	Roadways						
2018		Not included						
2019								
2020		Sub Total : Roadways				-		
2021								
2022	G2020	Asphalt - Roadway Pavement						
2023		Asphalt roadway pavement	150,889	SF		-		
2024		Asphalt pavement- 4.5" thick	91,768	SF	4.50	412,956		
2025		2" Bituminous Concrete Top Course; Roadway & Loop road	43,056	SF	3.40	146,390		
2026		2" Bituminous Concrete Top Course; Access "Goat" Road	16,065	SF	3.40	54,621		
2027		Prepared subgrade 24" thick @ 35% of 105,835 sf cut area; Roadway	2,744	CY	20.00	54,877		
2028								
2029		Granite Curb	2,512	LF	65.00	163,280		
2030		Precast flush curbs	167	LF	38.00	6,346		
2031		Pavement Markings - Stop Lines	340	LF	3.60	1,224		
2032		Pavement Markings - "STOP" Text	12	EA	250.00	3,000		
2033		Pavement Markings - Directional Arrows	44	EA	125.00	5,500		
2034		Pavement Markings - Double Yellow (DYS) Lines	825	LF	2.40	1,980		
2035		Pavement Markings - "EV" Text	13	EA	150.00	1,950		
2036		Pavement Markings - Solid White Lines	425	LF	3.50	1,488		
2037								
2038		Sub Total : Asphalt - Roadway Pavement				853,612		



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2039								
2040	G2020	Asphalt - Parking Lots, Roadways, Paths						
2041		Asphalt Parking Lots		180,714	SF		-	
2042		Prepared subgrade 24" thick @ 35% of 51,000 sf cut area; Parking lot		1,322	CY	20.00	26,444	
2043		Asphalt pavement- 4.5" thick		127,938	SF	4.50	575,721	
2044		2" Bituminous Concrete Top Course Type I-1 @ Parking Lot installed		52,776	SF	3.40	179,438	
2045		Granite Curb		11,447	LF	68.00	778,396	
2046		Cape Code Berm		8,200	LF	28.00	229,600	
2047		6" wide Concrete Curbing @ Long & Triple Jump Pits		135	LF	32.00	4,320	
2048		Parking Space markings		478	EA	40.00	19,120	
2049		Parking Space markings- HC/Van		17	EA	500.00	8,500	
2050		Pavement marking		3,930	SF	2.50	9,825	See G1030
2051		Crosswalk		2,520	SF	3.50	8,820	
2052		Misc. markings		3,280	SF	3.50	11,480	
2053								
2054		Misc. Asphalt pavement						
2055		4"- Bituminous Paving @ Running Track D-Zone Areas		12,159	SF	4.00	48,636	
2056		4"- Bituminous Paving @ Long & Triple Jump Lanes		1,125	SF	4.00	4,500	
2057		2" Bituminous Concrete Binder Course @ Running Track		46,269	SF	3.10	143,434	
2058		1" Bituminous Concrete Top Course @ Running Track		46,269	SF	2.75	127,240	
2059		2-1/2" Bituminous binder at Temp. Faculty/Student Parking Lot		105,300	SF	2.40	252,720	
2060								
2061		Sub Total : Asphalt - Parking Lots, Roadways, Paths					2,428,194	
2062								
2063	G2030	Pedestrian Paving (Concrete and Play Surface)						
2064		Concrete walkway paving					-	
2065		Heavy duty reinforced concrete vehicular paving		8,580	SF	18.00	154,440	
2066		Reinforced concrete pedestrian sidewalks-		25,418	SF	12.00	305,016	
2067		Gravel Borrow Base; cement concrete pedestrian sidewalks		790	cy	52.00	41,080	
2068		Curb cuts ramps		38	EA	520.00	19,760	
2069		Tactile Warning Plates		258	SF	54.00	13,932	
2070		Concrete paving; sport event pads		560	SF	15.00	8,400	
2071		Concrete Paving; Sport Event Pads		3,410	SF	30.00	102,300	
2072		Concrete stair per riser		406	LFR	85.00	34,510	
2073		Concrete landing		312	SF	25.00	7,800	
2074		Crushed Stone beneath Site Concrete Stairs		21	CY	52.00	1,114	
2075		Reinforced concrete generator pad		515	SF	20.00	10,300	
2076		Reinforced Concrete Transformer Pads		92	SF	20.00	1,840	
2077		Reinforced Concrete Entrance Pads to Building		725	SF	18.00	13,050	
2078		Reinforced Concrete Bike Rack Pads (4")		190	SF	18.00	3,420	
2079		Gravel base; 12" thick at veh. Concrete pads					-	See G1030
2080		Bleacher stand Concrete pad// Press box stand					-	
2081		Grading and Fine Grading					-	See G1030
2082		Concrete pavement		4,100	SF	15.00	61,500	
2083								
2084		Sub Total : Concrete walkway paving					778,462	



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NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2085								
2086	G2040	Site Development						
2087		Reinforced Concrete Secondary Bus Transformer Oil	156	SF	171.00	26,676		
2088								
2089		<u>Playground Surfaces</u>				-		
2090		Playground ; Poured-in place rubber play surfacing	974	SF	48.00	46,752		
2091		3/4" Crushed Stone Base beneath Mahogany Decking	53	CY	52.00	2,756		
2092		Engineered wood fiber surfacing	445	SF	60.00	26,700		
2093		Misc. new playground equipment including slide, chalk board etc	1	EA	45,000.00	45,000		
2094		<u>Playground Misc. Items</u>				-		
2095		Terraced wood seating -all in	98	LF	200.00	19,600		
2096								
2097		<u>1A. Renovate existing 6 lane Running Track</u>	57,514	SF		-		
2098		Sand Layer @ Soccer Field @ Running Track	1,846	CY	65.00	119,990		
2099		Mill existing surface and underlay (1 day operation)	6,400	SY	4.00	25,600		
2100		2" layer of asphalt to receive track surface laid to grades and 1" pitch	57,514	SF	2.75	158,164		
2101		Track surface	57,514	SF	6.80	391,095		
2102		Composite boardwalk decking with pressure treated deck structure, concrete Sono tube	2,692	SF	44.50	119,794		
2103		Composite wood boardwalk trike track	1,030	SF	38.50	39,655		
2104		Composite wood accessible ramp	128	SF	120.00	15,360		
2105		Flagpole	1	LS	15,000.00	15,000		
2106		Nature Play elements (relocated)	1	LS	32,000.00	32,000		
2107								
2108		<u>1A & 1B Track & Soccer La Crosse Fields</u>				-		
2109		Long jump/triple jump	2	EA		-		
2110		Long Jump Equipment	2	LS	23,149.63	46,299		
2111		Pit covers	2	EA	664.66	1,329		
2112		Takeoff boards	1,134	SF	18.00	20,412		
2113		High Jump	5,830	SF		-		
2114		High jump pads	1	EA	6,000.00	6,000		
2115		Pole vault system	1	LS	42,019.00	42,019		
2116		Discus pad & enclosure	1	EA	23,000.00	23,000		
2117		Signage allowance	1	LS	5,500.00	5,500		
2118		Soccer goals	2	EA	4,632.12	9,264		
2119		Soccer corner flags/Markings	1	LOC	2,800.00	2,800		
2120		Lacrosse goals	1	SET	2,915.34	2,915		
2121		Repairs to retained fence (Soccer/Lacrosse)				-		
2122								
2123		<u>2A. New practice fields</u>				-		
2124		Soccer goals	4	EA	5,000.00	20,000		
2125		Soccer corner flags/Markings	2	LOC	3,000.00	6,000		
2126		Football Goals	2	EA	16,000.00	32,000		
2127		Concrete pad at bleachers	2,675	SF	20.00	53,500		



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Description	Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades	
2128	Concrete pad at bleachers	109	CY	52.00	5,667	
2129	Aluminum ramp to press box	474	SF	45.00	21,330	
2130	Prefabricated Press box	400	SF	400.00	160,000	
2131	<u>4A. New Softball field</u>				-	
2132	20' netting at softball field	93	LF	200.00	18,600	
2133	Aluminum bleachers; 80 seat	1	EA	38,400.00	38,400	
2134	Concrete pad at bleachers	442	SF	30.00	13,260	
2135	Softball mound	1	EA	3,500.00	3,500	
2136	Base plate	4	EA	420.00	1,680	
2137	Batting cage on stone dust surfacing	1	LS	302,050.00	302,050	
2138	Baseball Batting Cage Edger	161	LF		Included	
2139	Bullpen with mounds and home plates	2	LS	7,761.75	15,524	
2140	Softball foul poles	2	EA	5,135.00	10,270	
2141	Softball backstop	1	EA	11,900.00	11,900	
2142	Signage allowance	1	EA	5,000.00	5,000	
2143						
2144	<u>5A. New Baseball field</u>				-	
2145	6' Black Vinyl covered chain link fence w/ stone duct	518	?		-	See G2040.1
2146	6' Black Vinyl covered chain link fence at baseball field	548	?		-	See G2040.1
2147	40' netting at baseball field	109	LF	420.00	45,780	
2148	Single Gates	3	?		-	See G2040.1
2149	Double Gates	2	?		-	See G2040.1
2150	Aluminum bleachers; 45 seat	2	EA	22,000.00	44,000	
2151	Concrete pad at bleachers	458	SF	20.00	9,160	
2152	Baseball mound	1	EA	3,800.00	3,800	
2153	Pitching rubber	2	EA	550.00	1,100	
2154	Base plate	4	EA	420.00	1,680	
2155	Batting cage on stone dust surfacing	1	LS	14,622.00	14,622	
2156	Baseball Batting Cage Edger	181	LF		Included	
2157	Bullpen with mounds and home plates	2	LS	7,761.75	15,524	
2158	Baseball foul poles	2	EA	5,135.00	10,270	
2159	Baseball backstop	1	EA	10,900.00	10,900	
2160	Dugout	2	EA	9,896.00	19,792	
2161	Dugouts - players benches	2	EA	3,296.00	6,592	
2162	Helmet cubby	2	EA	1,250.00	2,500	
2163	Signage allowance	1	EA	5,000.00	5,000	
2164						
2165	<u>Line Markings at Sports Facilities</u>				-	
2166	Markings at football	1	LOC	10,000.00	10,000	
2167	Sliding Gate at 6' BVC fence with motor etc., 30' wide	1	EA	15,000.00	15,000	
2168	Vehicular barrier swing gat, manual	2	EA	5,500.00	11,000	
2169	8' Pedestrian double gate	1	PR	2,000.00	2,000	
2170	Bollards (incl. footing, steel bollard, set, concrete fill, paint/cover)	43	EA	900.00	38,700	
2171	Fencing -BVC - CLF 3'-6" High	217	LF	50.00	10,850	



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2172		Fencing -BVC - CLF 4'-0" High	155	LF	55.00	8,525		
2173		Fencing -BVC - CLF 6'-0" High	1,947	LF	69.00	134,343		
2174		Fencing -BVC - CLF 8'-0" High	1,023	LF	115.00	117,645		
2175		Fencing - Galvanized- 6' H (at practice field between existing and chain link	289	LF	160.00	46,240		
2176		Ex. Fence to remain- (1,740) Modify/Repair	1	LS	10,000.00	10,000		
2177		6' Wood Stockade Fencing	630	LF	85.00	53,550		
2178		6' Wood/Steel Wood Fence- Single Gates @ Loading Dock	2	EA	2,000.00	4,000		
2179		8' Wood Stockade Fencing	200	LF	105.00	21,000		
2180		4' high Wood Slat Privacy Fence w/ 6' wide Double Swing Gate @ Playground	200	LF	95.00	19,000		
2181		Single Gates	12	EA	1,100.00	13,200		
2182		Double Gates	7	EA	2,000.00	14,000		
2183		Double swing gates	1	EA	2,500.00	2,500		
2184		Steel guardrail	1,900	LF	76.00	144,400		
2185		PH-1 fencing costs	1	LS	125,000.00	125,000		
2186		4' H Horizontal wood slat fence @ Playground	214	LF	92.00	19,688		
2187		Gate at 4' fence @ Playground	1	EA	2,000.00	2,000		
2188		40'x8' Connex storage containers on gravel surfacing		EXCL		-		
2189		Crushed stone surfacing	90	CY	65.00	5,868		
2190		Benches' 7' long	3	EA	2,500.00	7,500		
2191		Benches' 15' long	9	EA	3,000.00	27,000		
2192		Compost wood and led metal bench	4	EA	2,500.00	10,000		
2193		Bistro Tables "Bravo Bistro Table" (27"x27"x28") Carbon color	12	EA	1,500.00	18,000		
2194		Bistro Chairs "Bravo Bistro Chair" (17.5"x16"x32.5") Cadmium color	24	EA	500.00	12,000		
2195		Loading dock bumpers	1	ALLW	5,000.00	5,000		
2196		Bike Racks	8	EA	560.00	4,480		
2197		School signage	1	LS	25,000.00	25,000		
2198		Bleachers @ baseball field	80	ea	400.00	32,000		
2199		Aluminum bleacher on concrete pad	540	seat	200.00	108,000		
2200								
2201		Electronic Scoreboard; Football Field				By Owner		
2202		Electronic Scoreboard; Baseball Field				By Owner		
2203		Excavate for Baseball Field Scoreboard Footings	1	EA	1,800.00	1,800		
2204		Excavate for Football Field Scoreboard Footings	1	EA	1,800.00	1,800		
2205								
2206		Traffic signs	38	EA	780.00	29,640		
2207		Signs; No Mowing" w/ Posts	4	EA	500.00	2,000		
2208		Signs; No Dumping" w/ Posts	4	EA	500.00	2,000		
2209								
2210		SRW retaining wall at Football field	450	SF	155.00	69,750		
2211		Segmental Retaining Wall @ 550 Seat Bleachers-	1,500	SF	155.00	232,500		
2212		Concrete Backing @ VG Curbing O	285	CY	150.00	Included		
2213								
2214		LED Sign at entrance	1	LS	25,000.00	25,000		
2215		Sound system at stadium	1	ALLW	100,000.00	100,000		



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NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
2216		Dugout	2	EA	9,896.00	19,792		
2217		Dugouts - players benches	1	LS	3,296.00	3,296		
2218		Helmet cubby	2	LS	1,250.00	2,500		
2219		Electronic Vehicular Access Swing Gates- (By DoorKing-Total 23lf) @ School	2	EA	45,000.00	90,000		
2220		Sliding Vehicular Gate @ Auto Storage Area (2	EA	25,000.00	50,000		
2221								
2222		Sub Total : Site Development				3,860,648		
2223								
2224	G2050	Landscaping						
2225		CS Upland restoration mix	10,426	SF	0.70	7,298		
2226		We wetland seed mix	15,211	SF	0.85	12,929		
2227		Lawn (Non irrigated areas)	428,000	SF	0.50	214,000		
2228		Screened Topsoil , amend, respread	2,000	CY	20.00	40,000		
2229		18" planting soil at planting beds etc.	328	CY	80.00	26,240		
2230		Mulch	1	LS	3,430.00	3,430		
2231		Bioretention Basins						
2232		1/4"-3/4" Clean Washed Gravel	425	CY	56.00	23,800		
2233		Mirafi 140N Filter Fabric Wrap	9,000	SF	0.20	1,800		
2234		(2) Layers of Mirafi 205NW Filter Fabric Wrap	18,000	SF	0.30	5,400		
2235								
2236		DECIDUOUS TREES				-		
2237		Armstrong Red Maple 3.0 -3.5 Cal	12	EA	2,284.00	27,408		
2238		Red Maple 2.5" Cal., Native	9	EA	1,339.00	12,051		
2239		Sugar Maple 2.5" Cal., Native	2	EA	1,339.00	2,678		
2240		Common Hackberry 2.5" Cal., Native	6	EA	1,339.00	8,034		
2241		Honey Locust 2.5" Cal., Native	13	EA	1,339.00	17,407		
2242		Tulip Tree 2.5" Cal., Native	1	EA	1,339.00	1,339		
2243		Tupelo 2.5" Cal., Native	3	EA	1,339.00	4,017		
2244		American Sycamore 2.5" Cal., Native	8	EA	1,339.00	10,712		
2245		Pin Oak 2.5" Cal, Native	2	EA	1,339.00	2,678		
2246		Red Oak 2.5" Cal., Native	2	EA	1,339.00	2,678		
2247		American Linden 2"-2.5" Cal	7	EA	1,339.00	9,373		
2248		American Elm 2.5" cal.	9	EA	1,339.00	12,051		
2249		EVERGREEN TREES				-		
2250		Eastern Red Cedar 7' Ht.	14	EA	750.00	10,500		
2251		ORNAMENTAL TREES				-		
2252		Downy Serviceberry 4.5-5' Ht.	22	EA	600.00	13,200		
2253		Thornless Hawthorn2-2.5" cal	8	EA	1,392.00	11,136		
2254		Flowering Cherry 2.5" cal	3	EA	1,446.00	4,338		
2255		SHRUBS						
2256		Black Chokeberry 3 gal	10	EA	150.00	1,500		
2257		Summersweet 3 gal	7	EA	150.00	1,050		
2258		Buttonbush 3 gal	7	EA	150.00	1,050		
2259		Winterberry 3 gal	7	EA	150.00	1,050		
2260		Staghorn Sumac 2 gal	72	EA	120.00	8,640		
2261		Viburnum 3 gal	7	EA	150.00	1,050		
2262		Mapleleaf Viburnum 2 gal	60	EA	120.00	7,200		
2263		GROUND COVERS						
2264		Karl forester feather Reed Grass 2 gal.	73	EA	49.00	3,577		



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2265			Pennsylvania Sedge Pluge	977	EA			
2266			Dwarf Fernleaf Bamboo 1 gal.	781	EA	27.00	21,087	
2267			Gro-low Fragrant Sumac 3" gal	122	EA	115.00	14,030	
2268								
2269			<u>1B. Form new soccer and lacrosse field inside track</u>	83,621	SF		-	
2270			Remove turf at interior and store	83,621	SF	0.50	41,811	
2271			Remove topsoil and store	2,323	CY	15.00	34,842	
2272			Rough grading to level to install drain tiles	9,291	SY	6.00	55,747	
2273			Remove ex. Drainage pipe for reconfiguration as noted on plans	1,024	LF	20.00	20,480	
2274			New Under drain, 3/4" tile at field	3,249	LF	20.00	64,980	
2275			Main Drainage- Incl in Storm Drain Systems				-	Elsewhere
2276			Install sand - 8" tk	2,075	CY	62.00	128,650	
2277			Reinstate topsoil (part reused)	1,626	CY	22.00	35,771	
2278			Seeded lawn at playing field	83,621	SF	0.50	41,811	
2279			Irrigation at field	83,621	SF	2.20	183,966	
2280			Long jump/triple jump	2	EA		-	
2281			Rough/fine grading	1,642	SF	0.75	1,232	
2282			Sand base	100	CY	60.00	6,021	
2283			12" Stone base	67	CY	52.00	3,479	
2284			Takeoff boards	1,134	SF		-	
2285			12" Stone base	46	CY	52.00	2,392	
2286			High Jump	214	SF		-	
2287			Rough/fine grading	5,830	SF	0.75	4,373	
2288			12" Stone base;	238	CY	56.00	13,328	
2289			Rubber surface	5,830	SF	12.00	69,960	
2290			Shotput; concrete throwing pad with toe board, landing area stone dust	2,390	SF		-	
2291			Rough/fine grading	2,390	SF	0.75	1,793	
2292			12" Stone base	146	CY	56.00	8,176	
2293			Toe board	1	EA	2,956.00	2,956	
2294			Concrete pad	108	SF	18.00	1,944	
2295			landing area stone dust	2,282	SF	3.70	8,443	
2296			Maintenance at field	1	incl		-	
2297			<u>2A. Renovate and form Practice fields</u>				-	Included in Landscaping as Lawn
2298			<u>3A. Form new Football field</u>	89,411	SF		-	
2299			Formation level will be formed by demo./other sitework				-	Note
2300			Additional excavation at this area- assume part of overall site work				-	Note
2301			Rough grading to level to install drain tiles at filed area only	89,411	SF	0.75	67,058	
2302			Misc. demo./obstructions In footprint	1	LS	10,000.00	10,000	
2303			New Under drain, 3/4" tile at field	3,051	LF	20.00	61,020	
2304			Main Drainage- Incl in Storm Drain Systems				-	Elsewhere
2305			Install sand - 8" tk	2,441	CY	65.00	158,665	
2306			Imported Topsoil	2,886	CY	58.00	167,388	
2307			Seeded lawn at playing field	89,411	SF	0.50	44,706	
2308			Irrigation at field	89,411	SF	2.20	196,704	
2309			Maintenance at field	1	LS	15,000.00	15,000	
2310			<u>4A. Form new Softball field</u>	49,735	SF		-	
2311			Remove turf at interior and store	49,735	SF	0.50	24,868	
2312			Remove topsoil and store	1,153	CY	15.00	17,302	
2313			Grading to establish level for install of drains	48,367	SY	6.00	290,201	
2314			New Under drain, 3/4" tile at field	1,559	LF	20.00	31,180	



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Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2315		Main Drainage- Incl in Storm Drain Systems					-	Elsewhere
2316		Install sand - 8" tk	1,234	CY	62.00		76,518	
2317		6"- Gravel Base Course beneath Baseball/ Softball Bullpen Areas	10	cy	42.00		420	
2318		Reinstate topsoil (part reused)	414	CY	30.00		12,434	
2319		New Topsoil at extended portion of field	1,232	CY	58.00		71,431	
2320		Seeded lawn at playing field	37,495	SF	0.50		18,748	
2321		Engineered Infield mix	12,240	SF	4.00		48,960	
2322		Irrigation at field	37,495	SF	2.20		82,489	
2323		6"- Stone Dust at Base/ Softball Batting Cages	43	CY	52.00		2,229	
2324		9"- Gravel Borrow Base beneath Baseball/Softball Batting Cages	54	CY	48.00		2,592	
2325		Gravel Borrow Base beneath Stonedust @ Shot Put Landing Zone	54	CY	48.00		2,592	
2326		Stone Dust at Shot Put Landing Zone w/ Stabilizer Additive	44	CY	52.00		2,266	
2327		Gravel Base beneath Concrete Sport Event Pads (Inc.- Discus, Dugouts	14	CY	48.00		672	
2328		Maintenance at field	1	LS	10,000.00		10,000	
2329		<u>5A. Form new Baseball field</u>	95,114	SF			-	
2330		Formation level will be formed by demo./other sitework					-	Note
2331		Additional excavation at this area- assume part of overall site work					-	Note
2332		Rough grading to level to install drain tiles at filed area only	95,114	SF	0.75		71,336	
2333		Misc. demo./obstructions In footprint	1	LS	20,000.00		20,000	
2334		New Under drain, 3/4" tile at field	3,107	LF	20.00		62,140	
2335		Main Drainage- Incl in Storm Drain Systems					-	Elsewhere
2336		Install sand - 8" tk	2,596	CY	65.00		168,757	Included G2040
2337		6"- Gravel Base Course beneath Baseball Infield Mix Areas	252	CY	42.00		10,584	
2338		Imported Topsoil	21,514	CY	60.00		1,290,840	
2339		Seeded lawn at playing field	83,984	SF	0.50		41,992	
2340		Engineered Infield mix	11,130	SF	2.00		22,260	
2341		Irrigation at field	83,984	SF	5.95		500,000	
2342		Maintenance at field	1	LS	20,000.00		20,000	
2343								
2344		<u>Irrigation other than above</u>						
2345		4" Water service meter, backflow preventer, Digital flow meter, 1" blowout Tap & shut off valve					See Plumbing	
2346		2" pipe	29	lf	48.28		1,400	
2347		3" pipe	411	lf	57.02		23,435	
2348		4" pipe	232	lf	72.00		16,704	
2349		Sleeves; 6"	101	lf	16.00		1,616	
2350		Sleeves; 8"	62	lf	18.00		1,116	
2351		Pump station	1	ea	50,000.00		50,000	
2352		Well	1	ea	62,000.00		62,000	
2353		2" Gate valve	1	ea	450.00		450	
2354		3" Gate valve	4	ea	600.00		2,400	
2355		4" Gate valve	2	ea	800.00		1,600	
2356								
2357		Sub Total : Landscaping					5,060,956	
2358								
2359	G2090	Other Site Construction						
2360		Not used					-	
2361								
2362		Sub Total : Other Site Construction					-	



Tri-County Regional Vocational HS

Milford, MA 02038

09/26/2024

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2363								
2364			SUBTOTAL FOR Site Improvements				End of Trade	\$ 12,981,873
2365								
2366								
2367	G30		Site Mechanical Utilities					
2368	G3010		Water Supply & Distribution Systems					
2369			M&P- Exist. 8" Water Main Line during Construction	2,670	LF	1.50	4,005	
2370			R&D- 6" D.I. Cap installed during EBP #1 W	1	EA	90.00	90	
2371								
2372			12" CLDI line per engineer's layout and quantity (unit price includes excavation, trench support, bedding, backfill, dispose of excavated material)	1,243	LF	196.00	EBP#1	
2373			10" CLDI line per engineer's layout and quantity (unit price includes excavation, trench support, bedding, backfill, dispose of excavated material)	2,264	LF	193.00	EBP#1	
2374			8" CLDI line per engineer's layout and quantity (unit price includes excavation, trench support, bedding, backfill, dispose of excavated material)	42	LF	158.00	6,636	
2375			6" CLDI line for hydrants and fire connection to building	98	LF	110.00	10,780	
2376			4" CLDI domestic water	780	LF	85.00	66,300	
2377			1" Type K copper	38	LF	45.00	1,710	
2378			4"x4"x4" Tee	1	EA	380.00	380	
2379			4" bend	2	EA	32.00	64	
2380			6" bend	1	EA	340.00	340	
2381			Drill & Tap New 1" Water Service into New 10" Water Main	2	EA	1,000.00	2,000	
2382			10"x4" Tee	1	EA	340.00	EBP#1	
2383			10"x8" Tee	1	EA	380.00	EBP#1	
2384			12" x12" Tee	2	EA	450.00	EBP#1	
2385			12"x10 Reduce	2	EA	720.00	EBP#1	
2386			12" bend	5	EA	280.00	EBP#1	
2387			10" bend	9	EA	260.00	EBP#1	
2388			1" water stub for future greenhouse	1	EA	780.00	780	
2389			10" Gate	1	EA	1,800.00	EBP#1	
2390			4" Gate Valves & Boxes	3	EA	1,200.00	3,600	
2391			6" Gate Valves & Boxes	1	EA	1,600.00	1,600	
2392			Hydrant assemblies including tees and valves	3	EA	3,800.00	EBP#1	
2393			1" Post indicator valves	2	EA	1,200.00	2,400	
2394			Pressure Test & Chlorinate	916	LF	5.00	4,580	
2395			R&D- Excess Trench Excavation Soils	460	CY	18.00	8,280	
2396								
2397			Sub Total : Water Supply & Distribution Systems				113,545	
2398								
2399	G3020		Sanitary Sewer Systems					
2400			Temporary Mods to facilitate work, By-pass pump, temporary lines etc.	420	LF	2.50	1,050	
2401			Core into existing SMH	1	LS	2,200.00	2,200	
2402			Sanitary Manholes depth <5' 12; depth	4	EA	5,150.00	20,600	
2403			Precast Concrete Gas/Oil/Sand Interceptors	2	EA	8,800.00	17,600	
2404			Sanitary Manholes depth 9' (#4)	1	EA	6,500.00	EBP#1	
2405			Sanitary Manholes depth 10' -12' (#2, 14)	2	EA	8,000.00	EBP#1	



Tri-County Regional Vocational HS

09/26/2024

Milford, MA 02038

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
							Total \$	Subtotal Trades
2406		Sanitary Manholes depth 14' (#3)	1	EA	15,000.00		EBP#1	
2407		Sanitary Manholes depth 17' (#16)	1	EA	40,000.00		EBP#1	
2408		Connect to existing Sewer Main	1	LS	20,000.00		EBP#1	
2409		Sanitary sewer stub	2	LS	1,200.00		EBP#1	
2410		4" PVC Sanitary Line	288	LF	65.00			18,720
2411		6" PVC Sanitary Line	482	LF	75.00			36,150
2412		8" PVC Sanitary Line	390	LF	90.00			35,100
2413		Sewer test	1,160	LF	5.00			5,800
2414		4,000 gallon grease trap	1	LS	10,000.00			10,000
2415		R&D- Excess Trench Excavation Soils	819	CY	18.00			14,742
2416		Casual Dewatering	1	LS	3,000.00			3,000
2417								
2418		Sub Total : Sanitary Sewer Systems						164,962
2419								
2420	G3030	Storm Drainage Systems						
2421		Foundation Drain			included with foundations			
2422		12" HDPE	4,650	LF	74.00			344,100
2423		15" HDPE	490	LF	85.00			41,650
2424		18" HDPE	430	LF	95.00			40,850
2425		24" HDPE	24	LF	127.00			3,048
2426		18"- PVC 45 deg. Bends @ Collector Field Piping	3	EA	1,800.00			5,400
2427		8"x18"- PVC Tees @ Collector Piping @ Baseball F	1	EA	1,500.00			1,500
2428		6" PVC	120	LF	44.00			5,280
2429		8" PVC	398	LF	50.00			19,900
2430		6" Perforated underdrainage	1,106	LF	47.00			51,982
2431		12" PVC	40	LF	69.00			2,760
2432		18" PVC	2,103	LF	80.00			168,240
2433		12" RCP	380	LF	78.00			29,640
2434		30" RCP	9	LF	150.00			1,350
2435		Infiltration System #3, (184 MC 3500 units, 12 inspection ports, etc., Excavation, Crushed Stone, Stormtech chambers, Backfill	26,680	CF	17.00			453,560
2436		Water Quality Units including inlet	1	EA	20,000.00			20,000
2437		4' dia. DMH manholes; 5'-12'	12	EA	5,400.00			64,800
2438		5' dia. doghouse manhole	8	EA	6,050.00			48,400
2439		8' dia. doghouse manhole <6'	1	EA	8,000.00			8,000
2440		Rebuild DMH and tie into ex. Stormwater system	1	EA	2,200.00			2,200
2441		18"- Core & Drill into Exist. Catch Basins @ Ex. Running Track Field	3	EA	2,800.00			8,400
2442		P&M- Exist. DMH's	4	EA	450.00			1,800
2443		P&M- Exist. Concrete Drain Headwalls	2	EA	750.00			1,500
2444		P&M- Exist. 24" RCP Drain Line	125	LF	2.50			313
2445		Underdrains @ Baseball Field	4	EA	2,000.00			8,000
2446		P&M- Exist. 30" RCP Drain Line	126	LF	3.50			441
2447		Catch basins with hoods	14	EA	4,500.00			63,000
2448		Double Catch basins	3	EA	5,600.00			16,800
2449		Cleaning Outlets	8	EA	1,600.00			12,800
2450		Trench Drain @ Running Track (ACO 4000)	1,318	LF	178.00			234,604
2451		TD; trench drainage	30	LF	178.00			5,340
2452		Trench Drain Catch Basins @ Running Track	4	EA	3,500.00			14,000
2453		Cleaning of Ex. 30" RCP Drainage Line Onsite	380	LF	36.00			13,680
2454		Video Inspection of Ex. 30" RCP Drainage Line Onsite	380	LF	10.50			3,990



Tri-County Regional Vocational HS

Milford, MA 02038

09/26/2024

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA		281,500 GSF	NEW CONSTRUCTION	
Description				Quantity	Unit	Unit Price	Area of New	281,500 GSF
						Total \$	Subtotal Trades	
2455			6" Perf. PVC Underdrain Piping; field	585	LF	20.00	11,700	
2456			12" Perf. PVC Underdrain Piping; field	1,580	LF	30.00	47,400	
2457			Rerouting of Exist. 12" RCP Drain Line along Property Line	80	LF	84.00	6,720	
2458			Clean new drainage piping	6,810	LF	6.00	40,860	
2459			Cleaning of Ex. 24" RCP Drainage Line Onsite	250	LF	34.00	8,500	
2460			Video Inspection of Ex. 24" RCP Drainage Line Onsite	250	LF	10.50	2,625	
2461			Remove excess trench & structure excavation soils	5,450	CY	20.00	109,004	
2462			6" Flat panel drains	9,013	LF	16.00	144,208	
2463			Rip Rap pad	1,984	SF	16.00	31,744	
2464			Pre-molded Wildlife Crossing Tunnel (ACO KT 500 System)	35	LF	280.00	9,800	
2465								
2466			Sub Total : Storm Drainage Systems				2,109,889	
2467								
2468	G30XX		Gas Utilities					
2469			2" High Pressure gas line- excavation only	1,900	LF	-	-	Early Bid Package
2470			Gate Valves					By others
2471			Meter					By others
2472								
2473			Sub Total : Gas Utilities				-	
2474								
2475	G3050		Cooling Distribution					
2476			Geo-Thermal Well system	1	ls	-	-	
2477			Geo-Thermal Wells	150	ea	40,000.00	6,000,000	
2478			Geo-Thermal Vault	1	ea	75,000.00	75,000	
2479			Div 31 soils management and removals for geo-thermal wells	6,700	cy	47.00	314,900	
2480			Div 31 drilling pad area prep and restoration	60	dy	6,900.00	414,000	
2481								
2482			Sub Total : Cooling Distribution				6,803,900	
2483								
2484	G3060		Fuel Distribution					
2485			Not used					
2486								
2487			Sub Total : Fuel Distribution				-	
2488								
2489	G3070		Other Site Mechanical Utilities				-	
2490			NA					
2491								
2492			SUBTOTAL FOR Site Mechanical Utilities				End of Trade	\$ 9,192,296
2493								
2494	G40		SITE ELECTRICAL UTILITIES				-	
2495	G4010		Electrical Distribution				-	
2496			Electrical Utilities				-	
2497			Utility Charges				-	
2498			Pole riser	2	EA	1,500.00	3,000	
2499			Primary Duct bank 1-5" conduit & 1 4" conduits (concrete encasement included)	1,760	LF	140.00	246,400	
2500			Manhole	3	EA	10,500.00	31,500	



Tri-County Regional Vocational HS

Milford, MA 02038

09/26/2024

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2501		Transformer pad and grounding	2	EA	5,000.00	10,000		
2502		Trans closure pad and grounding	2	EA	5,000.00	10,000		
2503		Meter provision	2	EA	500.00	1,000		
2504		4000A Trans Closure cabinet WP	2	EA	75,000.00	150,000		
2505		Secondary Duct bank 5000A (includes (2) runs to Switchboards/Transclosure cabinet) (concrete encasement included)	240	LF	3,140.00	753,600		
2506		Generator Duct bank 1600A, 100A and control wiring (concrete encased)	100	LF	955.00	95,500		
2507		Fire pump Duct bank 600A feed, concrete encasement included)	100	LF	260.00	26,000		
2508		<u>Press Box/Concessions</u>				-		
2509		Hand hole	2	EA	2,500.00	5,000		
2510		1-4" PVC conduit 200A feed, concrete encased (Total of (2) runs)	1,260	LF	135.00	170,100		
2511		1-2" PVC conduit 100A feed, Future (concrete encasement included)	630	LF	85.00	53,550		
2512		<u>Maintenance Building</u>				-		
2513		Hand hole	1	EA	2,500.00	2,500		
2514		1-2" PVC conduit 100A feed, (concrete encasement included)	330	LF	85.00	28,050		
2515		1-4" PVC conduit, empty (Future)	330	LF	85.00	28,050		
2516		<u>Existing Bathroom Building</u>				-		
2517		Hand hole	1	EA	2,500.00	NIC		
2518		1-4" PVC conduit 100A feed, concrete encasement included)	1,150	LF	85.00	NIC		
2519		<u>Greenhouse</u>				-		
2520		Hand hole	2	EA	2,500.00	5,000		
2521		1-2" PVC conduit 100A feed, Future (concrete encasement included)	350	LF	85.00	29,750		
2522		<u>Site Demolition</u>				-		
2523		Site Demolition and make safe	1	LS	25,000.00	25,000		
2524		Allow for disconnections at existing school and other demolished buildings	1	LS	10,000.00	10,000		
2525		Cut, Cap Make safe for removal by others	1	LS	30,000.00	30,000		
2526								
2527		Sub Total : Electrical Distribution				1,714,000		
2528								
2529	G4020.1	Exterior Site Lighting				-		
2530		<u>Site lighting</u>				-		
2531		SL1 - single head light fixture	51	EA	3,000.00	153,000		
2532		SL2 - Dual head site light fixture (luminaire)	10	EA	6,700.00	67,000		
2533		Conduit and wiring (UG)	12,400	LF	11.00	136,400		
2534		Conduit and wiring (UG), Excavation/backfill efforts	12,400	LF	35.00	434,000		
2535		Light Pole bases	121	EA	800.00	96,800		
2536		Handholes	65	EA	800.00	52,000		
2537		SL1- T3	28	EA	3,000.00	84,000		
2538		SL1- T4FT	28	EA	3,000.00	84,000		
2539		SL1- T4W	8	EA	3,000.00	24,000		
2540		SLF	1	EA	4,900.00	4,900		
2541		SL2- T4FT	4	EA	4,500.00	18,000		
2542		H1	4	EA	4,200.00	16,800		
2543		SLP- T3	17	EA	3,700.00	62,900		
2544		SLP- T5	24	EA	3,700.00	88,800		
2545		SLW- T4W	7	EA	5,500.00	38,500		
2546								
2547		Sub Total : Exterior Site Lighting				1,361,100		
2548								



Tri-County Regional Vocational HS

Milford, MA 02038

09/26/2024

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

NEW CONSTRUCTION				BUILDING AREA			281,500 GSF	NEW CONSTRUCTION
Description				Quantity	Unit	Unit Price	Area of New Total \$	281,500 GSF Subtotal Trades
2549	G4020.2	Exterior Sports Field Lighting					-	
2550		Not used					-	
2551								
2552		Sub Total : Exterior Sports Field Lighting					-	
2553								
2554	G4030	Exterior Communication & Security					-	
2555		<u>Telecommunications</u>					-	
2556		Pole riser	2	EA	1,500.00		3,000	
2557		Primary Duct bank 1-5" conduit & 1 4" conduits (concrete encasement included) LF includes (2) runs	2,360	LF	140.00		330,400	
2558		Manhole	8	EA	10,500.00		84,000	
2559		<u>Maintenance Building</u>					-	
2560		2-2" conduits (concrete encasement)	330	LF	111.00		36,630	
2561		Handholes	3	EA	2,500.00		7,500	
2562		<u>Press Box/Concessions</u>					-	
2563		Hand hole	3	EA	2,500.00		7,500	
2564		2-2" conduits (concrete encasement) includes (2) runs	660	LF	111.00		73,260	
2565		1-2" conduits (concrete encasement) includes (2) runs	330	LF	93.00		30,690	
2566								
2567		Sub Total : Exterior Communication & Security					572,980	
2568								
2569	G4090.1	Vehicle Charging					-	
2570		VCS2 - Pedestal (bollard) mounted dual, networked electric vehicle charging station w/ integral gateway modem, power management kit, bollard concrete mounting kit, etc.	5	EA	30,800.00		154,000	
2571		VCS3 - future charging stations (cabinets, wiring, conduits and terminations)	40	EA	8,416.00		336,640	
2572		VCS3 - future charging stations, sitework trenching/backfill efforts	1,900	CY	47.00		89,300	
2573								
2574		Sub Total : Vehicle Charging					579,940	
2575								
2576	G4020.2	PV System Conduits					-	
2577		Not used					-	
2578								
2579		Sub Total : PV System Conduits					-	
2580								
2581	G4030	Other Site Electrical Utilities					-	
2582		<u>Removal of Solar Panels on Site</u>		By others			-	
2583		Pumps for irrigation	1	EA	60,000.00		60,000	
2584								
2585		Sub Total : Other Site Electrical Utilities					60,000	
2586								
2587		SUBTOTAL FOR SITE ELECTRICAL UTILITIES					End of Trade \$ 4,288,020	
2588								
2589	G90	Other Site Construction						
2590		No work this section						
2591								



Tri-County Regional Vocational HS

09/26/2024

Milford, MA 02038

60% Construction Documents Estimate - RECON

ESTIMATE DETAIL

			NEW CONSTRUCTION			BUILDING AREA		281,500 GSF	NEW CONSTRUCTION
			Description	Quantity	Unit	Unit Price	Area of New	281,500 GSF	
							Total \$	Subtotal Trades	
2592			Sub Total : Other Site Construction				-		
2593									
2594			SUBTOTAL FOR Other Site Construction				End of Trade	\$ -	
2595									

ALTERNATES

			RENOVATION						ALTERNATES
			Description	Quantity	Unit	Unit Price	Total \$	Subtotal Trades	
1	ALT	0001	Provide new wells for irrigation system in lieu of using utility water						
2			Add				-		
3			Pump station	2	ea	50,000.00	100,000		
4			Well	2	ea	62,000.00	124,000		
5			Sitework coordination and restoration	2	dy	5,800.00	11,600		
6									
7									
7			Trade Work - Subtotal				235,600		
8			Mark-Ups & Contingencies			22.00%	51,832		
9			Total for Alternate 0001			ADD	287,432		
10									

RECONCILED CONSTRUCTION COST ESTIMATE TEMPLATE

District: District of Franklin
Project: Tri-County Regional Vocational Technical High School
OPM: Dore and Whittier Management Partners
Designer: Drummey Rosane
CM (if applicable): Consigli
Project Type: Educational
Submittal (DD/60/90): _____
Proposed Gross SqFt: 281,500

Waiting on ellena

waiting on CSI Format

need 3011

CSI DIVISION	DESCRIPTION	DESIGNER COST ESTIMATE	OPM or CM Cost Estimate	OPM Reconciled Amount
n/a	GMP Fee	\$0		
n/a	GMP Insurance	\$0		
n/a	GMP Contingency	\$0		
1000	General Requirements	\$0		
2000	Existing Conditions	\$0		
3000	Concrete	\$0		
4000	Masonry	\$0		
5000	Metals	\$0		
6000	Woods, Plastics, Composites	\$0		
7000	Thermal and Moisture Protection	\$0		
8000	Openings	\$0		
9000	Finishes	\$0		
10000	Specialties	\$0		
11000	Equipment	\$0		
12000	Furnishings	\$0		
13000	Special Construction	\$0		
14000	Conveying Equipment	\$0		
21000	Fire Suppression	\$0		
22000	Plumbing	\$0		
23000	Heating Ventilating and Air Conditioning	\$0		
26000	Electrical	\$0		
27000	Communications	\$0		
28000	Electronic Safety and Security	\$0		
31000	Earthwork	\$0		
32000	Exterior Improvements	\$0		
33000	Utilities	\$0		
Subtotal Base Contract Amount		\$0	0	\$0
Bid Alternates (If applicable)		\$0		\$0
TOTAL AMOUNT		\$0	233,196,716	\$0
TOTAL \$/SF		0	0	0

Ellana
DTC + GRs

\$0

Transfer this Total to the Updated Total Project Budget

Request for Qualification Draft

Request for Qualifications for TRADE CONTRACTORS Construction Manager at Risk – M.G.L. c.149A, §8

For the Following Trades: **Elevator, Waterproofing/Dampproofing**

Project: MSBA#: 201908780605
Tri-County Regional Vocational
Technical High School
Franklin, MA

Submission Deadline: **October 16, 2024 at 12:00 PM**

Submit Statement of Qualifications to: Tri-County Reg. Voc. Tech. High School
Email Qualifications to:
rrincon@doreandwhittier.com

Date Issued: **October 2, 2024**

Interest Forms and SOQ Applications: SUBMIT to Rachel Rincon, Dore & Whittier

ELECTRONIC SUBMISSIONS ONLY: rrincon@doreandwhittier.com

Commented [MC1]: Approved

Commented [MC2]: Approved

(IN 2025 - Masonry, Misc. and Ornamental Iron; Roofing and Flashing; Glass and Glazing; Tile; Acoustical Tile; Resilient Floors; Painting; Fire Protection; Plumbing; Heating, Ventilation, and Air Conditioning; Electrical.)

Part One: Request for Qualifications to Trade Contractors

- Section I:** General Information
- Section II:** Detailed Project Description
- Section III:** General Instructions
- Section IV:** Overview of Prequalification Process
- Section V:** Administration/Schedule for Prequalification Process
- Section VI:** Evaluation Procedure/Criteria for Prequalification Selection
- Section VII:** Additional Information

Part Two: Trade Contractor SOQ Application Forms/Schedules

(To be completed by Trade Contractor)

- Trade SOQ Form 1:** RFQ Interest Form
- Trade SOQ Form 2:** RFQ Response Checklist
- Trade SOQ Form 3:** SOQ Application Form
- Schedule A:** Business Owner Information
- Schedule B:** Management Personnel Information
- Schedule C:** Similar Project Experience
- Schedule D:** Terminations
- Schedule E:** Legal Proceedings
- Schedule F:** Safety Record
- Schedule G:** Project References
- Schedule H:** Credit References
- Schedule I:** Public Project References
- Schedule J:** Prior Revenue
- Schedule K:** Revenue Under Contract
- Schedule L:** Bonding Letter
- Schedule M:** Sub-bidder Certificate of Eligibility & Sub-bidder Update Statement

****PLEASE NOTE: THE SUB-BIDDER UPDATE STATEMENT MUST BE “UPDATED” ON A PROJECT BY PROJECT BASIS ****

Part One: Request for Qualifications to Trade Contractors

Section I: General Information

A. Introduction

This Request for Qualifications (“RFQ”) is the first phase of a two-phase procurement process as set forth in MGL Chapter 149A. The Awarding Authority through its Trade Contractor Prequalification Committee is prequalifying firms interested in providing public Trade Contractor services on this Public Construction Manager at Risk (“CM” or “CM at Risk”) project through this RFQ process. The Awarding Authority will evaluate submitted Statements of Qualifications (“SOQs”) based upon the identified evaluation criteria and points set forth in Section VI below and only those firms obtaining the required minimum points will be deemed prequalified. Only those respondents deemed prequalified will be invited to submit a bid in response to a Request for Bids (“RFB”) which will be issued in the second phase of the procurement process. The project delivery method for construction will be public CM at Risk with a Guaranteed Maximum Price (“GMP”) under M.G.L. Chapter 149A.

B. General Project Information

Awarding Authority:	<i>Tri-Country Regional Technical Vocational School District</i>
Project No.:	<i>MSBA Project No. 201908780605</i>
Project Name:	<i>Tri-County Regional Vocational Technical High School</i>
Project Location:	<i>147 Pond St. Franklin, MA 02038</i>
Project Description:	<i>New Construction. See section II for detailed description.</i>
RFQ Informational Meeting (if applicable):	<i>N/A</i>
Optional Site Visit (if applicable):	<i>N/A</i>
Submission Deadline: (for submission of SOQs in response to this RFQ)	<i>October 16, 2024 at 12:00 PM</i>
Submission Address:	<i>rrincon@doreandwhittier.com</i>
Estimated Total Overall Project Construction Cost:	<i>\$233,000,000</i>
Estimated Total Project Duration:	<i>30 Months</i>
CM at Risk Firm:	<i>Consigli Construction Co., Inc</i>
Project Architect:	<i>Drummey Rosane Anderson, Inc</i>

Commented [MC3]: Approved

C. Trade Contractors to be Prequalified

This RFQ seeks firms interested in providing Trade Contractor services on the Project in the trades identified in the table below. Interested Trade Contractors in the categories identified in the table below are invited to submit a Trade Contractor Statement of Qualifications (“SOQ”) to the Awarding Authority. Trade Contractors in the various trades will be prequalified either on a trade by trade basis, in phases, in groups of trades, or all at once depending on the project needs and phasing.

Trade Contractors seeking prequalification for this project MUST submit a commitment letter stating its ability to obtain bonding for 110% of the estimated trade contract value for the particular Trade Contract from a surety company licensed to do business in the Commonwealth or appearing on the U.S. Treasury Department Circulate 570. The selected Trade Contractors on this CM at Risk project will then be required to provide payment and performance bonds for the full value of their subcontracts and Trade Contractors must include the cost of these bonds in their bids.

See “X” Below For ALL Trades Subject To Prequalification (at this time)	Section #	Trade Category	Estimated Construction Cost For Each Trade (\$)
	040001	Masonry	
	050001	Miscellaneous and Ornamental Iron	
<input checked="" type="checkbox"/>	070001	Waterproofing, Dampproof’g & Caulk’g	\$67,183
	070002	Roofing and Flashing	
	080001	Metal Windows	
	080002	Glass and Glazing	
	090001	Lathing and Plastering	
	090002	Tile	
	090003	Acoustical Tile	
	090004	Marble	
	090005	Resilient Floors	
	090006	Terrazzo	
	090007	Painting	
<input checked="" type="checkbox"/>	140001	Elevators	\$536,406
	210001	Fire Protection Sprinkler System	
	220001	Plumbing	
	230001	Heating, Ventilation & Air-Conditioning	
	260001	Electrical	

Section II: Detailed Project Description

New Vocational High School Site Enabling – Bid Package #3. Scope includes: building structure (concrete & structural steel), below grade waterproofing/dampproofing associated with building foundations, and furnish and installation of new building elevators. Early release is required to ensure proper elevator pit size and depth are coordinated with concrete foundations.

Commented [MC4]: Approved

All Subcontractors shall comply with MGL c. 149, 26-27H and the Prevailing wage schedule attached to the Owner-CM agreement for this project. This includes all applicable weekly payroll records, statement of compliance weekly reporting.

Drawings, specifications, and other documents will not be available to respondents during the RFQ phase.

Pursuant to M.G.L. c. 30, §39S(a)(2) all employees to be employed on the Project must have successfully completed a course in construction safety and health approved by OSHA and of at least 10 hours in duration. All Trade Contractors on the Project will also be required to provide written certification of compliance with applicable workforce related laws, including, Executive Order 481, Federal Department of Homeland Security Requirements, and laws relating to worker classification, workers' compensation, and applicable laws related to taxes and insurance.

Section III: General Instructions

In response to this *RFQ*, interested Trade Contractors are requested to submit a *Trade Contractor RFQ Interest Form* (attached hereto) and required to submit a *Statement of Qualifications* ("SOQ") application package as follows:

A. Contents of *Statement Of Qualifications* Application Package

The required *SOQ application package* consists of the following*:

1. *Trade Contractor Statement of Qualifications Form (Trade RFQ Form 3)*
2. *Schedules A through M to Trade RFQ Form 3;*
3. all supporting documentation referenced and required therein; and
4. required number of copies of items 1-3 above.
5. All reference information provided in Schedule G including **email address shall be submitted electronically using the online questionnaire by going to the following link: Please only include 5-10 references ONLY**
<https://forms.gle/WvWwCtVRm6k2HNp3A>
6. **ALL SOQ's must include an up-to-date contact email to receive notice if you have been prequalified.**
7. **A credit reference letter from the bank is required by the SOQ deadline, it may be included with the SOQ or sent directly to Dore + Whittier from the bank.**

Do **not** submit Part One, Sections I-VII of this RFQ document with your SOQ submission. Only the Part II Trade Contractor SOQ Application Forms/Schedules and requested materials should be submitted.

*Trade RFQ Form 2 “Trade Contractor RFQ Response Checklist” is also included for the assistance of respondent Trade Contractors.

B. Submission Deadline: See *Section I: General Information*

ONE (1) set of electronic files, or reference to a weblink, of the interested Trade Contractor’s *SOQ application package* must be received by the Agent designated below on behalf of the Awarding Authority, on or before the Submission Deadline. Deadline as set forth in *Section I*, as determined by the Agent’s date/time:

PACKAGES ARE DUE Wednesday, October 16, 2024 BY 12:00 PM

Commented [MC5]: Approved

All packages should be formatted as **ELECTRONIC** files to:

Tri-County Regional Vocational Technical High School
c/o Dore & Whittier Management Partners
260 Merrimac Street, 2nd Floor, Bldg. 7
Newburyport, MA 01950
Telephone: (978) 499-2999

EMAIL TO: rrincon@doreandwhittier.com

*SOQ application packages received by the Awarding Authority later than the Submission Deadline specified in Section I will be rejected and returned to the respondent Trade Contractor. Respondent Trade Contractors are cautioned to allow sufficient time for mailed materials to be received. **Telecopied, mailed or faxed qualifications will not be accepted.** The Awarding Authority shall not be responsible for mail not received, deliveries not made, or SOQ application packages not received by the date and time set forth in Section I.*

C. Required Exterior Label For SOQ Application Package Envelope

SOQs will be submitted **ELECTRONICALLY** to Rachel Rincon, at email of: **rrincon@doreandwhittier.com**. All files received **must be labeled** with the following information in the body of the email:

RFQ for Trade Contractor Services
Tri-County Regional Vocational Technical High School Project
Project Number: **201908780605**
Trade for Which Submission is made (i.e. masonry, electrical)
Respondent Trade Contractor’s Name
Respondent Trade Contractor’s Address

Respondent Trade Contractor's Telephone Number
Respondent Trade Contractor's Contact Person

D. RFQ Informational Meeting and/or Optional Site Visit (if applicable)

No informational meeting/optional site visit regarding the prequalification process for this Project.

E. Review/Availability Of Contract Documents

Drawings, specifications and other documents will not be available to respondent Trade Contractors during the RFQ Phase.

F. Additional Instructions

See *Section VII: Additional Information* for additional instructions regarding the prequalification process.

Section IV: Overview of Prequalification Process

- This *Request for Qualifications* (“RFQ”) is issued pursuant to M.G.L. c. 149A, §8. Firms interested in providing Trade Contractor Services for the construction of the project described in *Section I and Section II* (“the Project”) MUST submit a *Statement of Qualifications* (“SOQ”) in response to this RFQ to the Awarding Authority as instructed in *Section III and Section VIII*, herein.
- The Trade Contractor selection process for this CM at Risk Project is a two-phase process as set forth in M.G.L. c. 149A, §8. The project delivery method for construction will be under M.G.L. c. 149A. The Awarding Authority is prequalifying firms interested in providing Trade Contractor services for the Project through this RFQ prequalification process.

***** **IMPORTANT NOTICES** *****

Participation in the RFB Bidding Phase of this Project will be limited to ONLY those Trade Contractor firms who have submitted a SOQ (and required supporting documentation) in response to this RFQ and that have been deemed prequalified by the Awarding Authority.

Trade Contractors that fail to respond to this RFQ and fail to submit an SOQ with the required supporting documentation by the Submission Deadline set forth in Section I, and Trade Contractors that have not been deemed prequalified by the Awarding Authority

shall be automatically disqualified from bidding on this Project.

***** *IMPORTANT NOTICES* *****

Section V: Administration/Schedule for Prequalification Process

- A. “Two-Phase” Selection Process** - Selection of Trade Contractors for the Project will be conducted in a two-phase process as set forth in M.G.L. c. 149A, §8. Trade Contractor firms must first be prequalified in the *Phase One – RFQ/Prequalification Phase* in order to bid on the Project in *Phase 2 – RFB/Bidding Phase*.
- 1. Phase One – RFQ/Prequalification Phase**
 - **Submission Of Statement Of Qualifications (“SOQ”)** - Interested Trade Contractor firms must submit a completed *SOQ*; completed *Schedules A through M*, and all required supporting documentation referenced therein in response to this *RFQ* by the *Submission Deadline* set forth in *Section I*.
 - **Prequalification Committee** –Awarding Authority will appoint a *Prequalification Committee* to review and evaluate the *SOQs* (and supporting documentation) submitted by interested Trade Contractors. The *Prequalification Committee* shall consist of a representative from the Owner’s Project Manager, the Project Designer; a representative from the Construction Manager at Risk firm; and two (2) representatives appointed by the Awarding Authority.
 - **Evaluation By Prequalification Committee** - The *Prequalification Committee* shall meet as necessary to evaluate and review the *SOQs* (and supporting documentation) submitted by each respondent Trade Contractor firm in accordance with the evaluation criteria set forth in *Section VI*.
 - **Notice To Respondent Trade Contractors** – The names of the Trade Contractor firms responding to the *RFQ* will be posted in a Register of Responders but there will be no public opening of the *SOQs* submitted in response to the *RFQ*. Upon completion of the evaluation and review process described herein, the *Prequalification Committee* will provide written notice to all respondent Trade Contractors as to whether they are deemed prequalified or not. Prequalified Trade Contractor firms shall also be invited to participate in *Phase Two*, the *RFB/Bidding Phase* of the Trade Contractor selection process.

2. **Phase Two – RFB/Bidding Phase**

- Trade Contractor firms determined in *Phase One* by the *Prequalification Committee* to be prequalified will be invited to bid on the Project. **Only firms deemed prequalified during Phase One – RFO/Prequalification Phase will be permitted to participate in Phase Two, the RFB/Bidding Phase. Firms that are not prequalified by the Prequalification Committee and firms that do not participate in the RFO phase will be precluded from participating in Phase Two - the RFB Bidding/Phase.**

B. **Anticipated Schedule For Prequalification/Bidding**

Anticipated Completion of Trade Prequalification Evaluations:	October 21, 2024
Anticipated RFB to Prequalified Bidders:	October 21, 2024
Anticipated Notice To Proceed for Trade Bidders:	Mid November 2024
Anticipated Construction Schedule:	Early Release Package #3 Starting December 2024.

Commented [MC6]: Approved

Section VI: Evaluation Procedure/Criteria for Prequalification Selection

A. **Sources of Information Considered**

Respondent Trade Contractors must submit documentation for the four (4) statutory evaluation criteria categories listed herein. Prequalification will be based on the submitted information and materials as well as information on prior project performance, information obtained from references, information obtained from governmental agencies and entities, information contained within the Awarding Authority’s certification files, and such other information as may be obtained relating to the evaluation criteria categories. The *Prequalification Committee* may also request and review additional information as necessary to clarify or supplement the information provided to or obtained by the Awarding Authority.

Do not include superfluous material. Respondent Trade Contractor must include the Trade Contractor Statement of Qualifications Form, Trade RFQ Form 3 and *Schedules A through M* attached hereto. Respondent Trade Contractor must give complete and accurate answers to all questions and provide all of the information requested. Making a materially false statement in this SOQ submission is grounds for rejection and debarment.

B. Evaluation Procedure

As set forth herein and in accordance with M.G.L. c. 149A, §8, the Awarding Authority has established a *Prequalification Committee* for the purpose of reviewing and evaluating responses to this *RFQ*. The *Prequalification Committee* shall evaluate interested Trade Contractors based on the evaluation criteria set forth herein and assign points for each evaluation criterion category and subcategory provided herein. The *Prequalification Committee* shall prepare a written evaluation score form for each respondent Trade Contractor that provides a composite point rating and a specific point rating for each of the evaluation criterion set forth in M.G.L. c. 149A and herein. The *Prequalification Committee* shall only prequalify those Trade Contractor firms that have achieved the minimum points required in each category set forth herein and a minimum total score of seventy (70) points.

Only Trade Contractor firms achieving the minimum score required in each evaluation category set forth herein, as well as a minimum total score of seventy (70) points overall shall be prequalified and invited to submit bids consistent with M.G.L. c. 149A, §8(a)-(f). An interested Trade Contractor's score shall be made available to the Trade Contractor upon request but is not a public record.

The decision of the *Prequalification Committee* shall be final and shall not be subject to appeal except on grounds of fraud or collusion.

C. Criteria For Prequalification

SOQs must be submitted on the *Trade RFQ Form 3* attached hereto. Interested Trade Contractors submitting a *SOQ* and supporting information in any other form will not be prequalified. The *Prequalification Committee* shall review and evaluate the information submitted by interested Trade Contractors in accordance with the statutory point scheme set forth in M.G.L. c. 149A, §8(e). Also in accordance with §8(e), the *RFQ* shall set forth the available points for each evaluation sub-category in order to provide interested Trade Contractors prior notice of the points available in each sub-category. Joint ventures must provide information about each of the joint venture partners.

1. ***Management Experience - (50 points available in this category; minimum of 25 points required in this category for prequalification approval)***
 - a. ***Business Owners:*** Provide the name, title, including a detailed description of the role and job responsibilities, scope of work and numbers of years with the firm for each of the business owner(s) of the firm. If the respondent Trade Contractor is a partnership, respondent Trade Contractor **MUST** provide the requested information for each general and limited partner. If the respondent Trade Contractor is a corporation or limited liability company,

respondent Trade Contractor **MUST** provide the requested information for each officer, director and/or member. If the respondent Trade Contractor is a joint venture, respondent Trade Contractor must provide information about the nature of the joint venture including the approximate percentage participation by each joint venture partner and the division of responsibility among the joint venture partners. point(s) available

- b. **Management Personnel:** Provide the name, title, including a detailed description of the role and job responsibilities, scope of work, education, construction experience, years with the firm and list of all projects completed for all management personnel who will have any direct or indirect responsibility over the Project, including but not limited to project executives, project managers, field superintendents and field engineers along with an organizational chart. Joint ventures must identify the company that employs each individual listed. points available

- c. **Similar Project Experience:** Provide the project name(s) and location, owner, description, a detailed scope of work, original contract sum, final contract sum, with explanation, for that scope of work only and date of completion for each and every similar project undertaken by the firm in the last seven (7) years. Joint ventures must provide similar project experience for each individual joint venture partner. **For purposes of this RFQ, “similar projects” shall mean projects where: 1) the respondent was a Filed Sub bidder, Trade Contractor or subcontractor, on a public school building construction project in Massachusetts; 2) the respondent’s subcontract was for a similar dollar value as the work of its trade as stated in Section 1C of this RFQ; and 3) where the project was of similar size, scope and complexity as this Project.** points available

- c. **Terminations:** Provide a list of any projects on which the firm was terminated, held in default, or failed to complete the work within the last seven (7) years. Include the name of the project, the timeframe of the project and circumstances surrounding the termination or default. Joint ventures must a list of termination for each joint venture partner. points available

- d. Lawsuits:** Provide a list of all lawsuits in which the trade contractor is a defendant or defendant-in-counterclaim with regard to construction contracts within the last 3 years. Please include among the lawsuits requested in the previous sentence, payment bond lawsuits under G.L.c.149, §29 and mechanics lien lawsuits. If the lawsuit was pending at any time during the last three (3) years (which includes any lawsuit that was commenced, dismissed, or resolved by settlement or judgment during that time), then it must be listed. Please note that the lawsuits listed shall not include actions that primarily involve personal injury, workers' compensation claims, or where the sole cause of action involves the trade contractor's exercise of its rights for direct payment under MLG c 30, §39F. Joint ventures must provide information regarding lawsuits for each joint venture partner. points available
- e. Safety Record:** Provide the three (3) year history of the Trade Contractor's workers' compensation experience modifier. In addition, provide documentation from the Trade Contractor's insurance carrier supporting the rating history provided. Joint ventures must provide the safety history for each joint venture partner. points available
- 2. References - (30 points available in this category; minimum of 15 points required in this category for prequalification approval)**
- a. Project References:** Provide reference information for owners and architects for each and every project listed in the response to Section VI(C)(1)(c), "Similar Project Experience." Joint ventures must provide project references for each joint venture partner. Information provided shall at least include project name and the names of the owners and architects, with current address, current telephone and fax numbers, and a contact person for each. Note: The Prequalification Committee may also consider project reference information and project evaluations obtained from the Update Statement, DCAMM's certification files and information provided in response to Subsection 2(c) herein. <https://forms.gle/WvWwCtVRm6k2HNp3A> points available
- b. Credit References:** Provide a minimum of five (5) credit references, including the telephone and fax numbers of a contact person from key suppliers, vendors and banks. Joint ventures must provide credit references for each joint venture partner. **A credit reference letter from the bank is required by the SOO deadline, it may be included with the SOO or sent directly to Dore + Whittier from the bank.** points available

- c. **Public Project Record:** Provide a list of all completed public building construction projects (as defined by M.G.L. c. 149 §44A worked on during the past seven (7) years with the project name, scope of work, contract value, start date, completion date, status of the project, owner’s name (including address, telephone number, fax number, and contact person) and architect’s name (including address, telephone number, fax number and contact person). Joint ventures must provide public project record information for each joint venture partner. 5 points available
3. **Capacity to Complete Projects - (20 points available in this category; minimum of 10 points required in this category for prequalification approval)**
- a. **Prior Revenue:** Submit the prior annual revenue for the prior three (3) fiscal years. Joint ventures must provide prior annual revenue for each joint venture partner. 10 points
 - b. **Revenue Under Contract:** Submit revenue under contract for the next three (3) years. Joint ventures must provide revenue under contract for each joint venture partner. 10 points
4. **Mandatory Requirements - (no points assigned)**
- a. **Bonding Capacity:** Interested Trade Contractors must provide a commitment letter (from a surety company licensed to do business in the Commonwealth of Massachusetts and whose name appears on the United States Treasury Department Circular 570) for payment and performance bonds in an amount equal to or greater than **one hundred and ten percent (110%)** of the estimated trade contract value for the subtrade that the Trade Contractor is seeking prequalification as set forth in *Section I*. The required commitment letter must be dated within the time frame of the RFQ procurement.
 - b. **DCAMM Certification:** Respondent Trade Contractors **must be certified as a filed sub-bidder in the trade for which they seek to be prequalified** by DCAMM and pursuant to M.G.L. c. 149, §44D must submit a copy of the Respondent’s currently valid DCAMM *Sub-bidder Certificate of Eligibility* with its *SOQ* (as set forth in the General Information section above). Note, however, that a joint venture team must be certified in specific trade(s) that it is seeking to be prequalified for this Project in the name of the joint venture and must submit a *Sub-bidder Certificate of Eligibility* for the joint venture in each such Trade. If a respondent to the RFQ is a proposed joint venture that is newly formed or is not currently certified, then: (i) each party to the proposed joint

venture must be individually certified by DCAMM and must submit a copy of its *DCAMM Sub-bidder Certificate of Eligibility* with the JV SOQ; and (ii) the joint venture respondent must state in the SOQ that it will seek certification from DCAMM as a joint venture in the sub-bid category of the Trade for which they submit the RFQ, and state that it understands and agrees that if the joint venture respondent is selected to participate in the RFB phase it will be required to submit a *DCAMM Sub-bidder Certificate of Eligibility* for the joint venture in the name of the joint venture with its response to the RFB. For certification forms and additional information see our web site:

www.mass.gov/DCAMM/certification

Or contact the Certification Office at:

DCAMM Contractor Certification Office
One Ashburton Place,
Boston, Massachusetts 02108
Telephone Number (617) 727-4050 ext. 415

- c. **Update Statement:** Interested Trade Contractors must provide a current and completed Sub-bidder Update Statement prepared by the interested Trade Contractor utilizing the current form of Update Statement available on the DCAMM website. If a respondent to the RFQ is a proposed joint venture and the proposed joint venture is not yet certified, then: i) each party to the proposed joint venture must be certified by DCAMM and each must submit its own signed Sub-bidder Update Statement as part of its SOQ; ii) at least one of the parties to the joint venture must be certified by DCAMM in the Trade category of for which it is seeking prequalification. When the second phase of the selection process is undertaken through an RFB, a joint venture respondent that has been selected in the RFQ process will be required to submit its *Sub-bidder Certificate of Eligibility* for the joint venture meeting the above requirements with its proposal to the RFB.

For the required Sub-bidder Update Statement Form and additional information see our web site:

www.mass.gov/dcamm/certification

Or contact the Certification Office at:

DCAMM Contractor Certification Office
One Ashburton Place,
Boston, Massachusetts 02108
Telephone Number (617) 727-4050 ext. 415

Section VII: Additional Information

A. Status of Request for Qualifications

This *RFQ* is solely a request for information. It does not represent an offer nor does it confer any rights on any respondent Trade Contractor. The Awarding Authority shall not be responsible under any circumstances for any costs incurred by any respondent Trade Contractors in responding to this *RFQ*. The Awarding Authority reserves the right to cancel this procurement at any time if it is in its best interest to do so.

B. Treatment of Information Submitted

With the exception of the required Update Statement and financial information, the Awarding Authority shall have no obligation to treat any information submitted by an interested Trade Contractor in or in connection with a *SOQ* as proprietary or confidential unless the Awarding Authority determines that the information legitimately requires such treatment. In such case, the Awarding Authority's obligation with respect to protection and disclosure of such information shall at all times be subject to applicable laws. The Awarding Authority shall have the right to use all or portions of the *SOQ*, as it considers necessary or desirable in connection with the Project. By the submission of a *SOQ*, the respondent Trade Contractor thereby grants to the Awarding Authority an unrestricted license to use the *SOQ*, including all materials submitted therewith, in connection with the project.

C. Communication between the Awarding Authority and Respondent Trade Contractors

Unauthorized communications or contact between Trade Contractors, their employees, agents or other related entities interested in submitting a *SOQ* and the Awarding Authority, the project designer, the project manager, the construction manager at risk firm or any other person or entity participating on the Prequalification Committee with regard to the Project are strictly prohibited. The only authorized communications shall be 1) inquiries to the Awarding Authority for general information about obtaining the RFQ, RFQ submission deadlines, and the existence of any relevant addenda to the RFQ; and 2) inquiries made at any official RFQ Informational meeting and/or site visit held by the Awarding Authority. No official RFQ Informational meeting will be held as set forth in *Section I*.

Any issues brought to the Awarding Authority's attention at the Pre-RFQ Informational meeting, which the Awarding Authority determines will require additional clarification will be addressed by issuing a written addendum. Oral and other clarifications will be without legal effect. All such addenda will be considered part of this RFQ, and the respondent Trade Contractor shall be required to acknowledge receipt of all addenda on the RFQ Proposal Response

Form attached to this RFQ. The Awarding Authority will mail addenda to all respondent Trade Contractors that have mailed or faxed an RFQ Interest Form, *Trade RFQ* Form 1 to the Awarding Authority or have received the RFQ directly from the Awarding Authority. It shall be the sole responsibility of the respondent Trade Contractor to ascertain the existence of any and all addenda issued by the Awarding Authority.

From the date of issuance of this RFQ, any respondent Trade Contractor that contacts directly or indirectly any member or employee of the Awarding Authority, or the project designer, or the project manager, or the construction manager at risk firm, or any member of the *Prequalification Committee* in connection with the selection process or the contract contemplated herein for this project is subject to disqualification. Contact is permitted for the purpose of obtaining a copy of this RFQ or to submit a verbal or written question or request for clarification at the RFQ Informational meeting as set forth in *Section I*.

Part Two: Trade Contractor SOQ Application Forms/Schedules

(To be completed by Trade Contractor)

TRADE CONTRACTOR RFQ Interest Form

(TRADE RFQ Form 1)

(For Submission to the Awarding Authority Immediately)

Instructions: *If respondent Trade Contractor firm is interested in responding to the RFQ for Prequalification of Trade Contractors for this Project then Trade RFQ Form 1 MUST be submitted to the Awarding Authority BEFORE submitting the SOQ Application Trade RFQ Form 3.*

Awarding Authority:	<i>Tri-County Regional Vocation Technical High School</i>
Project No.:	<i>#201908780605</i>
Project Name:	<i>Tri-County Regional Vocational Technical High School New Construction</i>

Email this *RFQ Interest Form* to¹:

Rachel Rincon (rrincon@doreandwhittier.com)
Dore & Whittier Management Partners
260 Merrimac Street, 2nd Floor, Bldg. 7
Newburyport, MA 01950

By submitting this *Trade RFQ Interest Form* the below identified firm is expressing its interest in the above-referenced public building construction project and is requesting that it be added to the list of firms that will receive any addenda to the *RFQ* on the Project. DCAMM *assumes no responsibility for a firm's failure to receive any addenda or other correspondence related to this RFQ due to the firm's failure to submit an RFQ Interest Form as directed above or for any other reason.*

Trade Contractor Category:	
Trade Contractor Firm Name:	
Trade Contractor Address:	
Trade Contractor Telephone:	
Trade Contractor Facsimile:	
Trade Contractor E-mail	
Trade Contractor Contact Person/Title:	
Date Submitted:	

By: _____
(Signature of Authorized Representative)

Date: _____

¹ Note: The Statement of Qualifications ("SOQ") application form (TRADE RFQ Form 3) and accompanying Schedules A through M, submitted in response to this RFQ **MAY NOT BE FAXED.**

TRADE CONTRACTOR RFQ RESPONSE CHECKLIST - TRADE RFQ Form 2

PLEASE NOTE THAT INCOMPLETE OR LATE APPLICATIONS FOR PREQUALIFICATION WILL NOT BE CONSIDERED. THEREFORE, BEFORE SUBMITTING A RESPONSE TO THIS RFQ, PLEASE REVIEW THE FOLLOWING:

- Did respondent Trade Contractor fax or mail the *RFQ Interest Form (Trade RFQ Form 1)* to the Awarding Authority?
- Did respondent Trade Contractor complete the entire *SOQ* application (*Trade RFQ Form 3*) and all required attachments and schedules?
- Did respondent Trade Contractor fully complete *Schedules A through M* and attach all required documentation?
- Did respondent Trade Contractor attach the resumes of owners and management personnel identified in respondent Trade Contractor's responses to *Schedule A* and *Schedule B*?
- Did respondent Trade Contractor attach the required documentation from respondent Trade Contractor's insurance company supporting the workers' compensation modifier history reported in *Schedule F*?
- Does respondent Trade Contractor have the current contact information for all of the references reported in *Schedule G, Schedule H* and *Schedule I*?
- Did respondent Trade Contractor attach a commitment letter for payment and performance bonds in the form required and for a value of 110% of the trade contract value as required in *Section 4(a) of Part Two, Trade RFQ Form 3*?
- Did respondent Trade Contractor attach a currently valid DCAMM *Sub-bidder Certificate of Eligibility* as required in *Section 4(b) of Part Two, Trade RFQ Form 3*?
- Did respondent Trade Contractor attach a completed and signed *Sub-bidder Update Statement* using the most recent form available on the DCAMM website as required in *Section 4(c) of Part Two, Trade RFQ Form 3*?
- Did respondent Trade Contractor include the original and all required copies of respondent Trade Contractor's entire *SOQ* application package?
- Did respondent Trade Contractor address the *SOQ* envelope correctly (i.e. to reference the Project and other required information set forth herein)?
- Did respondent Trade Contractor review all of the execution requirements before signing the *SOQ* application form?
- Is the person who signed the *SOQ* application form authorized to do so and did his or her correct and current contact information?

**TRADE CONTRACTOR STATEMENT OF QUALIFICATIONS FORM
(TRADE RFQ FORM 3)**

**Tri-County Regional Vocational Technical High School New Construction
Project
147 Pond St.
Franklin, MA 02038**

Note: See *Sections III and VII of Part One of the RFQ*, for instructions on completing this *Statement of Qualifications and accompanying Schedules A through M*.

Trade Contractor Category	
Trade Contractor Name:	
Trade Contractor Mailing Address:	
Trade Contractor Street Address:	
Telephone Number:	
Trade Contractor E-mail	
Facsimile Number:	
Contact Person/Title:	
Trade Contractor Acknowledges Addenda Nos.	

Note: If Respondent Trade Contractor is “SDO Certified” as a MBE/WBE/MWBE, please indicate which below and attach letter from the Massachusetts Supplier Diversity Office (SDO) evidencing such certification.

MBE WBE M/WBE

***** **IMPORTANT NOTICE** *****

Interested TRADE CONTRACTORS must indicate in the table below the trade for which it is seeking prequalification in this SOQ submission and MUST submit SEPARATE individual SOQ forms for each and every other trade that it is also seeking prequalification for this Project.

***** **IMPORTANT NOTICE** *****

Mark "X" for Trade Seeking Prequalification	Section #	Trade Category
<input type="checkbox"/>	040001	Masonry
<input type="checkbox"/>	050001	Miscellaneous and Ornamental Iron
<input type="checkbox"/>	070001	Waterproofing, Dampproofing and Caulking
<input type="checkbox"/>	070002	Roofing and Flashing
<input type="checkbox"/>	080001	Metal Windows
<input type="checkbox"/>	080002	Glass and Glazing
<input type="checkbox"/>	090001	Lathing and Plastering
<input type="checkbox"/>	090002	Tile
<input type="checkbox"/>	090003	Acoustical Tile
<input type="checkbox"/>	090004	Marble
<input type="checkbox"/>	090005	Resilient Floors
<input type="checkbox"/>	090006	Terrazzo
<input type="checkbox"/>	090007	Painting
<input type="checkbox"/>	140001	Elevators
<input type="checkbox"/>	210001	Fire Protection Sprinkler System
<input type="checkbox"/>	220001	Plumbing
<input type="checkbox"/>	230001	Heating, Ventilation & Air-Conditioning
<input type="checkbox"/>	260001	Electrical

1. **Management Experience** - (50 points available; minimum of 25 points required for prequalification approval)
 - a. **Business Owners:** Interested Trade Contractors **MUST COMPLETE Schedule A** and **MUST ATTACH** to it a resume for each and every business owner of respondent Trade Contractor firm as set forth in *Section VI(C)(1)(a) of Part One*, the RFQ for this Project.
 - b. **Management Personnel:** Interested Trade Contractors **MUST COMPLETE Schedule B** and **MUST ATTACH** to it an organizational chart AND a resume for each and every person who will have **any** management responsibility, direct or indirect, for the Project, including, but not limited to, project executives, project managers, field superintendents and field engineers, as set forth in *Section VI(C)(1)(b) of Part One*, the RFQ for this Project.
 - c. **Similar Project Experience:** Interested Trade Contractors **MUST COMPLETE Schedule C** and list similar projects for the last seven (7) years. For each project, respondent Trade Contractor must include the name, location, owner, description of project, a detailed description of respondent Trade Contractor's scope of work, original contract sum and final contract sum, with explanation, for this scope of work only and date completed. For the purpose of this RFQ, "similar projects" shall be defined as defined in *Section VI(C)(1)(c) of Part One*, the RFQ for this Project. **If specific criteria are required for a Trade, such as prior experience, make sure those criteria are met and described by the projects listed.**
 - c. **Terminations:** Interested Trade Contractors **MUST COMPLETE Schedule D** and list each and every project on which respondent Trade Contractor was terminated or failed to complete the work within the last seven (7) years as set forth in *Section VI(C)(1)(d) of Part One*, the RFQ for this Project.
 - d. **Lawsuits:** Interested Trade Contractors **MUST COMPLETE Schedule E** and list of all lawsuits in which the trade contractor is a defendant or defendant-in-counterclaim with regard to construction contracts within the last 3 years. Please include among the lawsuits requested in the previous sentence, payment bond lawsuits under G.Lc.149, §29 and mechanics lien lawsuits. If the lawsuit was pending at any time during the last three (3) years (which includes any lawsuit that was commenced, dismissed, or resolved by settlement or judgment during that time), then it must be listed. Please note that the lawsuits listed shall not include actions that primarily involve personal injury, workers' compensation claims, or where the sole cause of action involves the trade contractor's exercise of its rights for direct payment under MLG c 30, §39F. Joint ventures must provide information regarding lawsuits for each joint venture partner as set forth in *Section VI(C)(1)(e) of Part One*, the RFQ for this Project.

- e. **Safety Record:** Interested Trade Contractors **MUST COMPLETE** *Schedule F* and provide the three (3) year history of its workers' compensation modifier rating as set forth in *Section VI(C)(1(f)) of Part One*, the *RFQ* for this Project, and **MUST ATTACH** to *Schedule F* documentation from its insurance carrier supporting the ratings reported therein or no points may be awarded.
2. **References** - (30 points available; minimum of 15 points required for prequalification approval)
- a. **Project References:** Interested Trade Contractors **MUST COMPLETE** *Schedule G* and provide project references from owners and architects for all projects listed in *Schedule C* as required in *Section VI(C)(2)(a) of Part One*, the *RFQ* for this Project. <https://forms.gle/WvWwCtVRm6k2HNp3A>
 - b. **Credit References:** Interested Trade Contractors **MUST COMPLETE** *Schedule H* and provide a minimum of five (5) credit references as required in *Section VI(C)(2)(b) of Part One*, the *RFQ* for this Project. **A credit reference letter from the bank is required by the SOQ deadline, it may be included with the SOQ or sent directly to Dore + Whittier from the bank.**
 - c. **Public Project Record:** Interested Trade Contractors **MUST COMPLETE** *Schedule I* and list all completed public building construction projects completed by respondent Trade Contractor during the past seven (7) years as required in *Section VI(C)(2)(c) of Part One*, the *RFQ* for this Project.
3. **Capacity to Complete Project** - (20 points available; minimum of 10 points are required for prequalification approval)
- a. **Prior Revenue:** Interested **Trade Contractors MUST COMPLETE** *Schedule J* and list prior revenue for the last three (3) fiscal years.
 - b. **Revenue Under Contract:** Interested Trade Contractors **MUST COMPLETE** *Schedule K* and list revenue under contract for the next three (3) fiscal years.
4. **Mandatory Requirements:** (no points are assigned)
- a. **Payment and Performance Bonds:** Interested Trade Contractors **MUST ATTACH** to the *Trade RFQ Form 3* at *Schedule L* a commitment letter (from a surety company licensed to do business in the Commonwealth of Massachusetts and whose name appears on United States Treasury Department Circular 570) for payment and performance bonds in an amount equal to or greater than one hundred ten percent (110%) of the estimated trade contract value of this Project. The required commitment letter must be dated within the time frame of the RFQ procurement.
 - b. **Sub-bidder Certificate of Eligibility: (Required as of January 1, 2006)**
Interested Trade Contractors **MUST ATTACH** to the *Trade RFQ Form 3* at

Schedule M a currently valid *Sub-bidder Certificate of Eligibility* (issued by DCAMM) for each Trade in which it submits a *SOQ*.

- c. **Update Statement: (Required as of January 1, 2006)** Interested Trade Contractors **MUST ATTACH** to the *Trade RFQ Form 3* at *Schedule M* a current and completed *Sub-bidder Update Statement* for each Trade in which it submits and RFQ utilizing the current Update Statement form available on DCAMM's website.

5. **Execution Requirements**

- a. **Submission Format: ONE (1)** original, marked "Original" electronic copy to the designated email account of the Agent. For purposes of the submittal deadline, first delivered e-mail transmitted files presented by the interested Trade Contractor shall be logged as received.
- b. **RFQ Response Checklist:** Before signing and submitting its SOQ application package for this Project, interested Trade Contractors are advised to carefully review the *RFQ Response Checklist – Trade RFQ Form 3*.
- c. **Incomplete or Inaccurate Information:** Failure to accurately and completely provide the information requested may result in disqualification.
- d. **Authorization to Sign:** This form MUST be signed by an officer of the firm or an individual so authorized by an officer of the firm who has personal knowledge regarding the information contained herein.
- e. **Debarment Status:** By signing below, the interested Trade Contractor certifies that it is not currently debarred from performing public work for the Commonwealth of Massachusetts or the Federal Government.

[THIS SPACE IS INTENTIONALLY BLANK]

Certification

The undersigned declares that he or she has carefully examined all the documents contained in the CM at Risk Request for Qualifications (RFQ) solicitation for the project, and certifies to the best of his/her knowledge, that this Statement of Qualifications fully complies with all of the requirements of the RFQ and all addenda and clarifications issued in regard to the RFQ.

The undersigned also hereby certifies that he or she (or, if he or she is the authorized representative of a company, the company) is the only person interested in this Statement of Qualifications and any subsequent proposal; that it is made without any connection with any other person making any submission for the same work; that no person acting for, or employed by, the Commonwealth of Massachusetts is directly or indirectly interested in this Statement of Qualifications or any subsequent proposal, or in any contract which may be made under it, or in expected profits to arise therefrom; that the undersigned Respondent has not influenced or attempted to influence any other person or corporation to file a Statement of Qualifications or subsequent proposal or to refrain from doing so or to influence the terms of the Statement of Qualifications or any subsequent proposal of any other person or corporation; and that this submission is made in good faith without collusion or connection with any other person applying for the same work.

The undersigned further certifies under pains and penalties of perjury that the undersigned is not debarred from doing public construction work in the Commonwealth of Massachusetts under the provisions of section twenty nine F of chapter twenty nine, or any other applicable debarment provision of any other chapter of the General Laws or any rule or regulation promulgated there under, and further is not debarred from doing public construction work under any law, rule or regulation of the federal government.

The undersigned states that he or she has carefully examined all of the information provided and representations made in this Statement of Qualifications and the documents submitted with the SOQ including all schedules, forms and materials, and certifies to the best of his/her knowledge, that this Statement of Qualifications in its entirety is complete, true and accurate.

Acknowledgement of Addenda. By signing below, the interested Trade Contractor **acknowledges receipt of the following addenda** to this RFQ:

Addenda No. (if any) _____

SIGNED UNDER THE PAINS AND PENALTIES OF PERJURY:

Signature: _____
(Signature of Authorized Representative)

Print Name: _____

Title: _____

Firm Name: _____

Date: _____

Project Number: _____

Project Name: _____

Firm Name: _____

SCHEDULE A – BUSINESS OWNERS: Interested Trade Contractor **MUST** provide the following information and **attach a copy of the resume for each and every business owner of the firm** in accordance with Section VI(C)(1)(a) of *Part One*, the *RFQ* for this Project.

NAME	TITLE	ROLE/JOB RESPONSIBILITIES/ SCOPE OF WORK	# OF YEARS W/FIRM	EDUCATION/EXPERIENCE

Firm Name: _____

SCHEDULE E - LAWSUITS: Interested Trade Contractors are required to list of all lawsuits in which the trade contractor is a defendant or defendant-in-counterclaim with regard to construction contracts within the last 3 years. Please include among the lawsuits requested in the previous sentence, payment bond lawsuits under G.L.c.149, §29 and mechanics lien lawsuits. If the lawsuit was pending at any time during the last three (3) years (which includes any lawsuit that was commenced, dismissed, or resolved by settlement or judgment during that time), then it must be listed. Please note that the lawsuits listed shall not include actions that primarily involve personal injury, workers' compensation claims, or where the sole cause of action involves the trade contractor's exercise of its rights for direct payment under MLG c 30, §39F. Joint ventures must provide information regarding lawsuits for each joint venture partner as set forth in *Section VI(C)(1)(e) of Part One*, the *RFQ* for this Project.

PROJECT NAME & LOCATION	PROJECT OWNER	DESCRIPTION OF LEGAL PROCEEDING (include caption of case, parties, location of proceeding, description of the dispute and status and/or outcome)

Firm Name: _____

SCHEDULE F – SAFETY RECORD: Interested Trade Contractors are required to provide the three (3) three year history of its workers’ compensation experience modifier and **attach documentation from its insurance carrier** supporting the ratings reported herein as set forth in *Section VI(C)(1)(f)* of *Part One*, the *RFQ* for this Project.

YEAR	WORKERS’ COMP. EXPERIENCE MODIFIER	COMMENTS

Firm Name: _____

SCHEDULE G - PROJECT REFERENCES: 5-10 references ONLY. Interested Trade Contractors are required to list references for prior work respondent Trade Contractor has performed which appears in *Schedule C* as set forth in *Section VI(C)(2)(a)* of *Part One*, the *RFQ* for this Project. <https://forms.gle/WvWwCtVRm6k2HNp3A>

PROJECT TITLE	COMPANY NAME	CONTACT PERSON/ADDRESS	TELEPHONE#	FAX#
	OWNER: DESIGNER:			

Firm Name: _____

SCHEDULE H - CREDIT REFERENCES: Interested Trade Contractors are required to list a minimum of five (5) credit references from banks, suppliers and/or vendors as set forth in *Section VI(C)(2)(b) of Part One*, the *RFQ* for this Project. **A credit reference letter from the bank is required by the SOO deadline, it may be included with the SOO or sent directly to Dore + Whittier from the bank.**

CHECK ONE	COMPANY NAME	CONTACT PERSON	TELE#	FAX#
<input type="checkbox"/> BANK <input type="checkbox"/> SUPPLIER <input type="checkbox"/> VENDOR				
<input type="checkbox"/> BANK <input type="checkbox"/> SUPPLIER <input type="checkbox"/> VENDOR				
<input type="checkbox"/> BANK <input type="checkbox"/> SUPPLIER <input type="checkbox"/> VENDOR				
<input type="checkbox"/> BANK <input type="checkbox"/> SUPPLIER <input type="checkbox"/> VENDOR				

<input type="checkbox"/> BANK <input type="checkbox"/> SUPPLIER <input type="checkbox"/> VENDOR	
--	--

Firm Name: _____

SCHEDULE I - PUBLIC PROJECT RECORD: – Interested Trade Contractors are required to list all completed public buildings during the past Seven (7) years in accordance with Section VI(C)(2)(c) of *Part One*, the *RFQ* for this Project. (Respondent Trade Contractor may attach additional pages if necessary).

PROJECT INFORMATION	CONTACT INFORMATION Provide business and contact name, address, telephone and fax
PROJECT NAME: CONTRACT VALUE: SCOPE: START DATE: FINISH DATE:	AWARDING AUTHORITY: DESIGNER:
PROJECT NAME: CONTRACT VALUE: SCOPE: START DATE: FINISH DATE:	AWARDING AUTHORITY: DESIGNER:
PROJECT NAME: CONTRACT VALUE: SCOPE: START DATE: FINISH DATE:	AWARDING AUTHORITY: DESIGNER:

Firm Name: _____

SCHEDULE J – PRIOR REVENUE: – Interested Trade Contractors are required to list prior revenue for the last three (3) fiscal years in accordance with Section VI(C)(3)(a) of *Part One*, the *RFQ* for this Project.

Firm's fiscal year runs _____ to _____.

YEAR	PRIOR ANNUAL REVENUE (\$)

Firm Name: _____

SCHEDULE K – REVENUE UNDER CONTRACT: – Interested Trade Contractors are required to list revenue under contract for next three (3) fiscal years in accordance with Section VI(C)(3)(b) of *Part One*, the *RFQ* for this Project.

Firm's fiscal year runs _____ to _____.

YEAR	REVENUE UNDER CONTRACT (\$)

Firm Name: _____

Schedule L – LETTER EVIDENCING BONDING CAPACITY

Respondent Trade Contractors must attach here a letter from a surety company (or from an agent meeting the criteria set forth above) evidencing that the surety will provide respondent with payment and performance bonds for the Project in an *amount equal to or greater than One Hundred and Ten Percent (110%) of the estimated trade contract value of the Project*. The surety company must meet the requirements set forth above. For Trade Contractors submitting SOQs for more than one Trade, a letter evidencing bonding capacity for each trade must be submitted. The required commitment letter must be dated within the time frame of the RFQ procurement.

Firm Name: _____

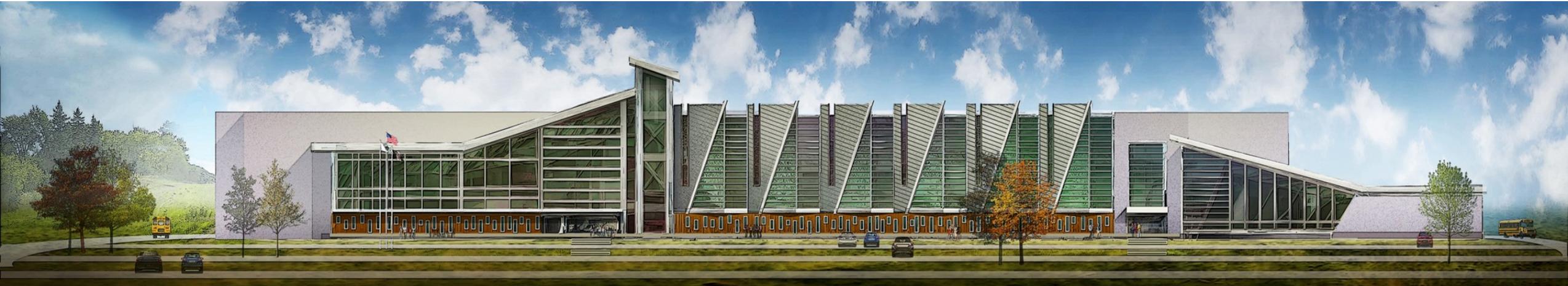
Schedule M – SUB-BIDDER CERTIFICATE OF ELIGIBILITY AND SUB-BIDDER UPDATE STATEMENT

Respondent Trade Contractors must attach here TWO different documents:

- 1) a copy of its current **DCAMM *Sub-Bidder Certificate of Eligibility*** meeting the requirements set forth above in this RFQ; **and**
- 2) a completed and signed **DCAMM *Sub-bidder Update Statement*** utilizing the most current form available on DCAMM’s website. www.mass.gov/dcamm/certification. Trade Contractors submitting an SOQ for more than one Trade must submit a DCAMM Sub-bidder Certificate of Eligibility and Sub-bidder Update Statement for each Trade

****PLEASE NOTE: THE SUB-BIDDER UPDATE STATEMENT
MUST BE “UPDATED” ON A PROJECT BY PROJECT BASIS****

September 26, 2024:
Meeting Presentation



Tri-County
Regional Vocational Technical School
SBC Meeting No.044
September 26, 2024



- 1. Call to Order & Intro**
- 2. Previous Topics & Approval of September 12, 2024, Meeting Minutes**
3. Commitments for Approval
4. MassSave Grant Restrictions
5. 60% Construction Documents Package Review & Approval
6. Request for Qualification Approval
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn

Previous Meeting Minutes for approval:

Date: **September 12, 2024**

“Motion to approve the September 12, 2024, Meeting Minutes made by _____, 2nd by _____.”

SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd “Gus” Brown

Item No.	Description	Action
43.1	Call to order: 4:01PM meeting was called to order by SBC Chair B. Mushnick, 8 of 11 voting members in attendance.	Record
43.2	Previous Topics & Approval of August 15, 2024 Meeting Minutes: A motion to approve the <u>August 15, 2024</u> previous meeting minutes as submitted was made by J. Dowse and seconded by M. Procaccini . Discussion: B. Foley requested that “SBC Member” be added to his title in the meeting minutes going forward. E. Grijalva acknowledges and confirms the change. Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.	Record
43.3	Invoices and Commitments for approval: Firm: Dore + Whittier Management Partners ; Description: CD Phase + Third Party Testing Services ; Amount: <u>\$104,031.50</u> A motion was made by J. Dowse and seconded by D. Haynes for the approval of DWMP Invoice No.031. Discussion: B. Foley asks when reviewing invoices for additional work from DRA, will the amendments for these areas be tied to both the project schedule and their original contract price? T. Elmore replies that the work in question is considered an addition beyond the original contract due to specific categories outlined by the MSBA contract. This contract, which we are required to use, excludes certain scope items because they are too variable and uncertain. Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.	Record
	Firm: Drumme Rosane Anderson ; Description: Construction Documents ; Amount: <u>\$1,432,500.00</u> A motion was made by J. Dowse and seconded by B. Foley for the approval of the DRA Invoice No.029. Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.	
	Firm: Drumme Rosane Anderson ; Description: Amendment No.006-Geotech ; Amount: <u>\$12,314.50</u> A motion was made by J. Dowse and seconded by B. Foley for the approval of the DRA professional invoice related to amendment no.006, in the amount of \$12,314.50. Discussion: None; Roll Call Vote: M. Procaccini (Y), D. Walsh (Y), K. Maguire (Y), B. Foley(Y), J. Dowse (Y), B. Bowen (Y), D. Haynes (Y), B. Mushnick (Y); Abstentions: None; All in favor. Motion passes.	

1. Call to Order & Intro
2. Previous Topics & Approval of September 12, 2024, Meeting Minutes
3. **Commitments for Approval**
4. MassSave Grant Restrictions
5. 60% Construction Documents Package Review & Approval
6. Request for Qualification Approval
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn

Commitment for Approval:

Firm: Drummey Rosane Anderson, Inc (DRA)

Description: Amendment No.012 ; Credit for unused funds

Deduct Amount: -\$73,602.00

Motion to approve the DRA Amendment No.012, for credit in the amount of (-\$73,602.00), made by _____, 2nd by _____."

SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd "Gus" Brown

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES

AMENDMENT NO. **TWELVE**

WHEREAS, the Tri-County Regional Vocational Technical School District ("Owner") and Drummey Rosane Anderson, Inc., (the "Designer") (collectively, the "Parties") entered into a Contract for Designer Services for the Tri-County Regional Vocational Technical High School Project (MSBA Project # 201908780605) at the Tri-County Regional Vocational Technical High School on 147 Pond Street, Franklin, MA. "Contract"; and

WHEREAS, effective as of 20th of September 2024, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to provide the credit for the unused portion of previously approved MEPA permitting services, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for the Basic and Additional Services:

Fee for Basic Services	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
Feasibility Study Phase	\$ 285,000.00			\$ 285,000.00
Schematic Design Phase	\$ 340,000.00			\$ 340,000.00
Environmental & Site		\$ 71,610.00		\$ 71,610.00
Design Development Phase		\$ 7,500,000.00		\$ 7,500,000.00
Construction Document Phase		\$ 9,550,000.00		\$ 9,550,000.00
Bidding Phase		\$ 150,000.00		\$ 150,000.00
Construction Phase		\$ 3,800,000.00		\$ 3,800,000.00
Completion Phase		\$ 150,000.00		\$ 150,000.00
Amendment 6		\$ 123,200.00		\$ 123,200.00
Amendment 7		\$ 77,000.00		\$ 77,000.00
Amendment 8		\$ 89,100.00		\$ 89,100.00
Amendment 9		\$ 29,700.00		\$ 29,700.00
Amendment 10		\$ 77,385.00		\$ 77,385.00
Amendment 11		\$ 404,690.00		\$ 404,690.00
Amendment 12			\$ (73,602.00)	\$ (73,602.00)
Total Fee	\$ 625,000.00	\$ 22,022,685.00	\$ (73,602.00)	\$ 22,574,083.00

Commitment for Approval:

Firm: Drummey Rosane Anderson, Inc (DRA)

Description: Amendment No.013; Environmental Soil Testing

Amount: \$56,100.00

Motion to approve the DRA Amendment No.013, in the amount of \$56,100.00, made by _____, 2nd by _____."

SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd "Gus" Brown

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES
AMENDMENT NO. THIRTEEN

WHEREAS, the Tri-County Regional Vocational Technical School District ("Owner") and Drummey Rosane Anderson, Inc., (the "Designer") (collectively, the "Parties") entered into a Contract for Designer Services for the Tri-County Regional Vocational Technical High School Project (MSBA Project #201908780605) at the Tri-County Regional Vocational Technical High School on 147 Pond Street, Franklin, MA. "Contract"; and

WHEREAS, effective as of 20th of September 2024, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to with the Environmental Soil Testing services defined in the PSS 13, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for the Basic and Additional Services:

Fee for Basic Services	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
Feasibility Study Phase	\$ 285,000.00			\$ 285,000.00
Schematic Design Phase	\$ 340,000.00			\$ 340,000.00
Environmental & Site		\$ 71,610.00		\$ 71,610.00
Design Development Phase		\$ 7,500,000.00		\$ 7,500,000.00
Construction Document Phase		\$ 9,550,000.00		\$ 9,550,000.00
Bidding Phase		\$ 150,000.00		\$ 150,000.00
Construction Phase		\$ 3,800,000.00		\$ 3,800,000.00
Completion Phase		\$ 150,000.00		\$ 150,000.00
Amendment 6		\$ 123,200.00		\$ 123,200.00
Amendment 7		\$ 77,000.00		\$ 77,000.00
Amendment 8		\$ 89,100.00		\$ 89,100.00
Amendment 9		\$ 29,700.00		\$ 29,700.00
Amendment 10		\$ 77,385.00		\$ 77,385.00
Amendment 11		\$ 404,690.00		\$ 404,690.00
Amendment 12		\$ (73,602.00)		\$ (73,602.00)
Amendment 13			\$ 56,100.00	\$ 56,100.00
Total Fee	\$ 625,000.00	\$ 21,949,083.00	\$ 56,100.00	\$ 22,630,183.00

Commitment for Approval:

Firm: Dore + Whittier Management Partners(DWMP)

Description: Amendment No.004- Structural Engineer Review

Amount: \$5,280.00

Motion to approve the OPM Amendment No.004, in the amount of \$5,280.00 made by _____, 2nd by _____."

SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd "Gus" Brown

ATTACHMENT B

**CONTRACT FOR PROJECT MANAGEMENT SERVICES
AMENDMENT NO. 004**

WHEREAS the Tri-County Regional Vocational Technical School District ("Owner") and Dore & Whittier Management Partners, LLC (the "Owner's Project Manager") (collectively, the "Parties") entered into a Contract for Project Management Services for the Tri-County Regional Vocational Technical High School Project (Project Number: 201908780605) at the Tri-County Regional Vocational Technical High School on May 14th, 2021 "Contract"; and

WHEREAS, effective as of September 26, 2024, the Parties wish to amend the Contract, as amended:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner authorizes the Owner's Project Manager to contract an independent structural engineer, RSV Associates, to conduct a review of the Construction Bid Documents, focusing on the designers' specifications and local Building Commissioners' requirements. The fees for these services will be based on the Lump Sum outlined in RSV Associates' Proposal Document. According to the OPM contract, Dore + Whittier Management Partners is permitted to add a 10% markup to the invoices to cover administrative costs, in accordance with the terms and conditions specified in the Base Contract, as amended.
2. For the performance of services required under the Contract, as amended, the OPM shall be compensated by the Owner in accordance with the following Fee:

Fee for Basic Services:	Original Contract	Previous Amendments	Amount of this Amendment	After this Amendment
OPM - Feasibility Study	\$170,000.00	\$ _____	\$ 0.00	\$ 170,000.00
OPM - Design Development	\$130,000.00	\$(25,000.00)	\$ 0.00	\$ 105,000.00
OPM – Construction Documents	\$ _____	\$1,900,000.00	\$ 0.00	\$ 1,900,000.00
OPM – Bidding	\$ _____	\$ 200,000.00	\$ 0.00	\$ 200,000.00
OPM – Construction	\$ _____	\$4,700,000.00	\$ 0.00	\$ 4,700,000.00
OPM – Closeout	\$ _____	\$ 200,000.00	\$ 0.00	\$ 200,000.00
OPM – 3 rd Party Testing #1	\$ _____	\$ 200,000.00	\$ 0.00	\$ 200,000.00
OPM – Structural Peer Review	\$ _____	\$ 200,000.00	\$ 5,280.00	\$ 5,280.00

1. Call to Order & Intro
2. Previous Topics & Approval of September 12, 2024, Meeting Minutes
3. Commitments for Approval
4. **Mass Save Grant Restrictions + Geothermal Cost Impact**
5. 60% Construction Documents Package Review & Approval
6. Request for Qualification Approval
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn

Summary of Path Incentives

Beginning in 2025, Massachusetts State legislation will prohibit the Sponsors of Mass Save from incentivizing energy efficient gas equipment. As a result, any new projects must be fully electrified (for space heating, ventilation air heating, domestic hot water heating and kitchen equipment) to participate in the Mass Save New Construction & Major Renovations Program, with certain **exceptions**, including;

- In labs or vocational technical schools where natural gas or propane may only be used for scientific research or instructional purposes

PATH 2: WHOLE BUILDING EUI REDUCTION APPROACH	
Customer Incentives	
Incentive rate range (based on EUI % reduction)	\$0.35/sf - \$1.25/sf
Space Heating Heat Pump Adder*	
• Air Source Heat Pumps:	\$800/ton
• Variable Refrigerant Flow (VRF):	\$1,200/ton
• Ground Source Heat Pumps:	\$4,500/ton
Technical Assistance	up to 75% cost share (capped at \$20,000 per Sponsor)
Verification Incentive	50% of fee up to \$10,000

PATH 3: HIGH PERFORMANCE BUILDINGS	
Customer Incentives	
Custom: Envelope, lighting controls, unitary HVAC (RTU, AC), high efficiency chillers, energy recovery, demand control ventilation, variable flow kitchen hoods, DHW heaters, low flow water fixtures and other custom measures	\$0.35/kWh \$2.00/therm
Prescriptive: variable frequency drives	Current program rate
Space Heating Heat Pump*	
• Air Source Heat Pumps:	\$800/ton
• Variable Refrigerant Flow (VRF):	\$1,200/ton
• Ground Source Heat Pumps:	\$4,500/ton

System Revision Costs – Rough Order of Magnitude

Costs to change to a geothermal system:

- Additional re-design and system design costs: \$650,000 +/-
- Additional system associated construction cost : \$6.8M +/-
- Additional Total Cost = (Range) \$7.5M +/-
- Current mechanical system construction cost (in budget) \$20.3M +/-
- Added Geothermal design and construction cost \$7.5M +/-

New Mechanical System Cost (ROM) \$27.8 M +/-

Off setting Grant Funding (Rough Order of Magnitude)

- **Federal IRA grants** – 30% of the total Mechanical System Cost (including site work) \$27.8M X 30% = \$8.3M in federal grant rebate (+/- estimate)
- **MA state grants- eligible for path 2+ 3**
 - Mass saves grant - \$4,500 per ton of heating/cooling, we have 540 tons:
 $\$4,500 \times 540 = \2.4 M (+/- estimate)
 - Other state financial grants and initiatives are in the legislative process that may be available to us.
- Additional Geothermal Cost \$7.5M - potential grant funds 10.7M = **(\$3Mil)**

Net Cost savings expected = \$3+ Million

Net annual operational savings is still to be determined

1. Call to Order & Intro
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5. **60% Construction Documents Package Review & Approval**
6. Request for Qualification Approval
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn

60% Construction Documents Submittal Approval

Motion to approve DWMP & DRA to submit the 60% Construction Documents submittal to the MSBA by _____, 2nd by _____."

SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd "Gus" Brown

DRA

Drumme Rosane Anderson, Inc.
Planning | Architecture | Interior Design



Tri-County Regional Vocational Technical High School
Franklin, MA

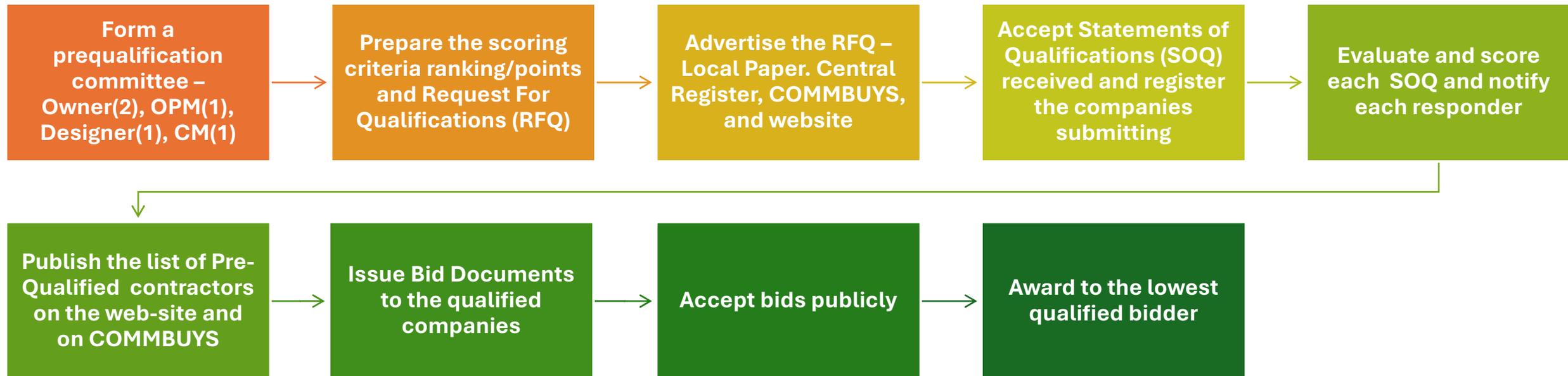
MSBA Module 6 –Design Development

May 01, 2024



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Prequalification of Filed Trade Sub-contractors



Request for Qualification Timeline

2024

2024

Today



Request for Qualification

Sep 22 - Sep 30 **6 days** Draft Request for Qualification

Sep 26 **★** Establish Review Committee

Sep 30 **★** Finalize RFQ

Sep 26 - Oct 2 **4 days** Post Advertisements (Central Register, COMMBUYS, Local)

Oct 2 **◆** RFQ Live

Statement of Qualifications

Oct 2 - Oct 16 **10 days** Trade Contractor SOQ's

Oct 16 **◆** SOQ's Due

Oct 16 - Oct 21 **3 days** Evaluation of SOQ's

Oct 21 **★** Approve Qualified Bidders

Bidding

Oct 21 **◆** Invitation to Bid

Oct 21 - Nov 8 **14 days** Trade Contractor Bidding

Nov 8 **★** Award Bidder

(Re-Advertisement) Statement of Qualification

Oct 16 - Oct 23 **5 days** Re-Advertise (Elevator)

Oct 23 **◆** RFQ (Elevator) Live

Oct 23 - Nov 6 **10 days** Trade Contractor (Elevator) SOQ's

Nov 6 **◆** SOQ (Elevator) Due

Select members for the Filed Trade Subcontractors pre-qualification committee for the Electrical scope in ERP #3

"MGL Ch.149 D - (c) Before issuing a request for qualifications, hereinafter referred to as RFQ, the awarding authority shall establish a prequalification committee for the purpose of reviewing and evaluating responses submitted in response to the RFQ issued pursuant to subsection (d). The prequalification committee shall be comprised of 1 representative of the designer and 3 representatives of the awarding authority. One of the representatives of the awarding authority shall be the owner's project manager if an owner's project manager is required on the building project pursuant to this section."

Motion to approve:

- (owner rep) - _____
- (owner rep) - _____
- (owner rep) - _____ (optional)
- (OPM rep) – Mike Cox
- (Designer rep) – Vladimir Lyubetsky
- (CM rep) – Kristy Lyons

**as the Filed Trade Subcontractor pre-qualification committee by _____,
2nd by _____."**

SBC Roll Call Vote	
Brian Mushnick	Karen Maguire
Dana Walsh	Dan Haynes
Mike Procaccini	Jon Dowse
Brendan Bowen	Bob Foley
Harry Takesian	Gus Brown
Stanley Widak	

Request for Qualifications(RFQ) Draft

Request for Qualifications for TRADE CONTRACTORS Construction Manager at Risk – M.G.L. c.149A, §8

For the Following Trades: Elevator, Waterproofing/Dampproofing

Project: MSBA#: 201908780605
Tri-County Regional Vocational
Technical High School
Franklin, MA

Submission Deadline: **October 16, 2024 at 12:00 PM**

Submit Statement of Qualifications to: Tri-County Reg. Voc. Tech. High School
Email Qualifications to:
rrincon@doreandwhittier.com

Date Issued: **October 2, 2024**

Interest Forms and SOQ Applications: SUBMIT to Rachel Rincon, Dore & Whittier

ELECTRON SUBMISSIONS ONLY: rrincon@doreandwhittier.com

(IN 2025 - Masonry, Misc. and Ornamental Iron; Roofing and Flashing; Glass and Glazing; Tile; Acoustical Tile; Resilient Floors; Painting; Fire Protection; Plumbing; Heating, Ventilation, and Air Conditioning; Electrical, Elevator.)

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8. **Public Comment**
9. **Next Meetings**
10. Adjourn

Next Meeting: October 10, 2024

Meetings to be coordinated:

NOVEMBER 14

DECEMBER 12

JANUARY 9

FEBRUARY 13

MARCH 13

APRIL 10



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10. **Adjourn**

Adjourn:

Motion to Adjourn by _____, 2nd by
_____”



SBC Roll Call Vote:

- Brian Mushnick
- Karen Maguire
- Dana Walsh
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Bob Foley
- Lloyd “Gus” Brown



THANK YOU