

PROJECT MINUTES

| | | | |
|---------------|---|---------------|---------|
| Project: | New W. Edward Balmer Elementary School | Project No.: | 17020 |
| Prepared by: | Joel Seeley | Meeting Date: | 10/1/19 |
| Re: | School Building Committee Meeting | Meeting No: | 52 |
| Location: | High School Media Center | Time: | 7:00pm |
| Distribution: | School Building Committee Members, Attendees (MF) | | |

Attendees:

| PRESENT | NAME | AFFILIATION | VOTING MEMBER |
|---------|--------------------|--|-------------------|
| ✓ | Joseph Strazzulla | Chairman, School Building Committee | Voting Member |
| ✓ | Melissa Walker | School Business Manager | Voting Member |
| ✓ | Alicia Cannon | Representative of the Board of Selectmen | Voting Member |
| | Michael LeBrasseur | Chairman, School Committee | Voting Member |
| ✓ | Paul Bedigian | Representative of the Building, Planning, Construction Committee | Voting Member |
| ✓ | Steven Gogolinski | Representative of the Finance Committee | Voting Member |
| ✓ | Jeffrey Tubbs | Community Member with building design and/or construction experience | Voting Member |
| ✓ | Peter L'Hommedieu | Community Member with building design and/or construction experience | Voting Member |
| ✓ | Jeff Lundquist | Community Member with building design and/or construction experience | Voting Member |
| | Andrew Chagnon | Community Member with building design and/or construction experience | Voting Member |
| ✓ | Spencer Pollock | Parent Representative | Voting Member |
| | Adam Gaudette | Town Manager | Non-Voting Member |
| ✓ | Amy McKinstry | Interim Superintendent of Schools | Non-Voting Member |
| ✓ | Richard Maglione | Director of Facilities | Non-Voting Member |
| ✓ | Karlene Ross | Principal, W. Edward Balmer Elementary School | Non-Voting Member |
| | Theresa Gould | Principal, Northbridge Elementary School | Non-Voting Member |
| | Gregory Rosenthal | Director of Pupil Personnel Services | Non-Voting Member |
| | Lee Dore | D & W, Architect | |
| ✓ | Thomas Hengelsberg | D & W, Architect | |
| | David Fontaine | Fontaine Bros, CM | |
| | David Fontaine, Jr | Fontaine Bros, CM | |
| | David Barksdale | Fontaine Bros, CM | |
| | Jim Mauer | Fontaine Bros, CM | |
| ✓ | Joel Kent | Fontaine Bros, CM | |
| ✓ | Joel Seeley | SMMA, OPM | |
| | | | |

| Item # | Action | Discussion |
|--------|--|--|
| 52.1 | Record | Call to Order, 6:30 PM, meeting opened. |
| 52.2 | Record | J. Strazzulla announced the meeting will be video and audio recorded with live broadcast and future re-broadcast. |
| 52.3 | Record | Public Comment - None |
| 52.4 | Record | A motion was made by P. Bedigian and seconded by A. Cannon to approve the 9/17/19 School Building Committee meeting minutes. No Discussion, motion passed unanimous by those attending. |
| 52.5 | J. Seeley | J. Seeley to add an estimated to complete and a projected final cost column to the Budget Tracking Form. |
| 52.6 | T. Hengelsberg | T. Hengelsberg to provide a response to the CDM Balmer School Sanitary Flow Metering Study. |
| 52.7 | J. Strazzulla | J. Strazzulla to review the location of the relocated Vail Memorial with the Trustees of Soldiers Memorials Committee. |
| 52.8 | T. Hengelsberg | T. Hengelsberg to issue a formal response to the design review meeting with the Disability Commission held on 7/10/19. |
| 52.9 | J. Strazzulla | J. Strazzulla will contact 254 Mason to confirm if they want to have the plantings adjacent to their property changed. |
| 52.10 | Record | J. Seeley distributed and reviewed the updated Project Schedule and updated 100% Construction Documents Meetings and Agenda Schedule, attached. |
| 52.11 | T. Hengelsberg J. Kent J. Seeley | T. Hengelsberg presented the request by 45-55 Crescent Street to remove the tree along the property line, attached. T. Hengelsberg, J. Kent and J. Seeley to review with the arborist and provide a recommendation at the next SBC meeting. |
| 52.12 | J. Kent | T. Hengelsberg presented that the noise calculations by the acoustical engineer for the HVAC Rooftop Units took diversity into account and the Acoustic Mechanical Roof Screens are required, attached. Committee Discussion 1. J. Lundquist indicated concern that the acoustical engineer may be conservative and the acoustical screens will not be required and requests the HVAC units be installed, made operational and then have field tests performed prior to installing the acoustical screens. <i>J. Kent to study the feasibility of making all the RTUs operational early enough so that sound tests can be made, and if failed, install the sound absorbing panels prior to Substantial Completion, or the time that they are needed to operate in earnest to make the building ready for finishes etc.(which could be earlier than Substantial Completion), factoring in lead times for panel fabrication and installation.</i> 2. P. Bedigian asked if there would be a cost impact to delaying the installation of the acoustical panels? <i>J. Kent to determine any cost impacts associated with delaying fabrication and installation of the panels.</i> |

| Item # | Action | Discussion |
|--------|--|--|
| 52.13 | Record | <p>J. Seeley distributed and reviewed the List of Prequalified Trade Contractors as recommended by the Trade Contractor Prequalification Committee, attached.</p> <p>A motion was made by A. Cannon and seconded by P. Bedigian to approve the list of Prequalified Trade Contractors as recommended by the Trade Contractor Prequalification Committee. No Discussion, motion passed unanimous.</p> |
| 52.14 | T. Hengelsberg J. Seeley | <p>J. Seeley distributed and reviewed the MSBA comments on the 90% Construction Documents Submission, attached.</p> <p>T. Hengelsberg and J. Seeley to provide written response by 10/11/19.</p> |
| 52.15 | Record | <p>J. Kent provided a Construction Update. Underground utilities are continuing in preparation for binder course paving of the access drive to the new building and foundations are anticipated to commence in the next 2 -3 weeks, attached.</p> <p>J. Kent indicated some site sub-contractor dump trucks had been staging on Lake Street waiting for the construction gate to open during the blackout times. FBI has directed the sub-contractor to stop staging trucks on Lake Street during blackout times.</p> <p>J. Strazzulla thanked FBI for their quick response on this issue.</p> |
| 52.16 | J. Strazzulla J. Seeley T. Hengelsberg | <p>Committee Questions</p> <ol style="list-style-type: none"> 1. M. Walker asked if the Committee can receive an update on the Bond borrowing status? <i>J. Strazzulla will work with A. Gaudette and provide an update at the next Committee meeting.</i> 2. J. Lundquist asked if calendar invites can be sent out for the SBC meetings after the 11/19/19 meeting. <i>J. Seeley will send out the calendar invites.</i> 3. J. Tubbs asked if the 100% Construction Documents can be made available to the Committee? <i>T. Hengelsberg indicated yes and will post on the D&W FTP site.</i> |
| 52.17 | Record | Old or New Business - none |
| 52.18 | Record | Next SBC Meeting: 10/15/19 at 6:30pm at the High School Media Center. |
| 52.19 | Record | A Motion was made by J. Lundquist and seconded by J. Tubbs to adjourn. No discussion, motion passed unanimous. |

Attachments: Agenda, Project Schedule, 100% Construction Documents Meetings and Agenda Schedule, List of Prequalified Trade Contractors, MSBA comments on the 90% Construction Documents Submission, PowerPoint

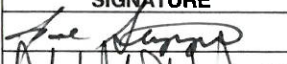
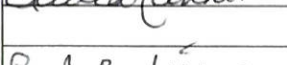
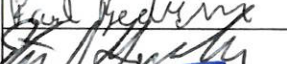


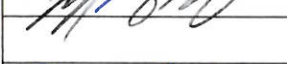

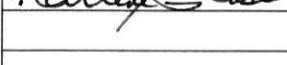


The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

PROJECT MEETING SIGN-IN SHEET

Project: New W. Edward Balmer Elementary School
 Prepared by: Joel Seeley
 Re: School Building Committee Meeting
 Location: High School Media Center
 427 Linwood Avenue, Whitinsville, MA

Project No.: 17020
 Meeting Date: 10/1/2019
 Meeting No: 52
 Time: 6:00pm

Distribution: Attendees, (MF)

| SIGNATURE | ATTENDEES | EMAIL | AFFILIATION |
|---|---------------------|--|---|
|  | Joseph Strazzulla | jstrazzulla@nps.org | Chairman, School Building Committee |
|  | Melissa Walker | mwalker@nps.org | School Business Manager, MCPPO |
|  | Alicia Cannon | cannonhome0927@gmail.com | Member, Board of Selectmen, CEO |
| | Michael LeBrasseur | mlebrasseur@nps.org | Chairman, School Committee |
|  | Paul Bedigian | bedigianps@cdmsmith.com | Representative of the Building, Planning, Construction Committee |
|  | Steven Gogolinski | steve@gogolinskicpa.com | Representative of the Finance Committee |
|  | Jeffrey Tubbs | jtubbs@charter.net | Member of community with architecture, engineering and/or construction experience |
|  | Peter L'Hommedieu | plhommedieu@shawmut.com | Member of community with architecture, engineering and/or construction experience |
|  | Jeff Lundquist | J.lundquist@charter.net | Member of community with architecture, engineering and/or construction experience |
| | Andrew Chagnon | achagnon@vertexeng.com | Member of community with architecture, engineering and/or construction experience |
|  | Spencer Pollock | spencerpollock22@gmail.com | Parent Representative |
| | Adam Gaudette | agaudette@northbridgemass.org | Town Manager |
|  | Amy McKinstry | amckinstry@nps.org | Superintendent of Schools |
|  | Richard Maglione | rmaglione@nps.org | Building Maintenance Local Official |
|  | Karlene Ross | kross@nps.org | Principal, W. Edward Balmer Elementary School |
| | Theresa Gould | tgould@nps.org | Principal, Northbridge Elementary School |
| | Gregory Rosenthal | groenthal@nps.org | Director of Pupil Personnel Services |
|  | Lee P. Dore | lpdore@DoreandWhittier.com | Dore & Whittier Architects |
| | Thomas Hengelsberg | thengelsberg@DoreandWhittier.com | Dore & Whittier Architects |
| | David Fontaine, Jr. | djf@fontainebros.com | Fontaine Bros., Inc. |
| | David Barksdale | dbarksdale@fontainebros.com | Fontaine Bros., Inc. |
| | Jim Mauer | jmauer@fontainebros.com | Fontaine Bros., Inc. |
| | Joel Kent | jkent@fontainebros.com | Fontaine Bros., Inc. |
|  | Joel Seeley | jseeley@smma.com | SMMA |

p:\2017\17020\4-meetings\4.3 mtg_notes\3-school building committee\2019\52_2019_1 october 2019_school building committee\school building committee meetings sign-in sheet_1 october 2019.docx

Agenda

Project: New W. Edward Balmer Elementary School
Re: School Building Committee Meeting
Meeting Location: High School Media Center
427 Linwood Avenue, Whitinsville, MA
Prepared by: Joel G. Seeley
Distribution: Committee Members (MF)

Project No.: 17020
Meeting Date: 10/1/2019
Meeting Time: 6:30 PM
Meeting No. 52

-
1. Call to Order
 2. Public Comments
 3. Approval of Minutes
 4. Approval of Invoices and Commitments
 5. Design Update
 6. DPW Sanitary Systems Study Review
 7. Neighborhood Meeting Follow-up
 8. Vote to Approve Trade Contractor Prequalifications
 9. Review MSBA 90% Construction Documents Submission Comments
 10. Construction Update
 11. New or Old Business
 12. Committee Questions
 13. Next Meeting: October 15, 2019
 14. Executive Session Not to Return to Open Session
 - M.G.L. c.30A, Sec. 21 #3 - To discuss strategy with respect to collective bargaining or litigation if an open meeting may have a detrimental effect on the bargaining or litigating position of the Town.

**SCHOOL BUILDING COMMITTEE
W. EDWARD BALMER ELEMENTARY SCHOOL**

All meetings held at the
High School Media Center at 6:30 PM
unless otherwise noted

MEETINGS SCHEDULE AND AGENDAS
July 2, 2019 Updated September 23, 2019

| DATE | AGENDA |
|--|--|
| 100% Construction Documents Phase | |
| September 17, 2019 | BUILDING COMMITTEE MEETING |
| | Review Overall Construction Document Phase Schedule |
| | Review 100% Construction Document Schedule |
| | Review Design Refinements |
| | Award Early Concrete and Steel |
| September 24, 2019 | TRADE CONTRACTOR QUALIFICATION COMMITTEE MEETING - 6:00 PM |
| | Review of Trade Contractor Statements of Qualifications |
| October 1, 2019 | BUILDING COMMITTEE MEETING |
| | Vote to Approve Trade Contractor Prequalifications |
| | Review MSBA 90% Construction Documents Submission Comments |
| October 15, 2019 | BUILDING COMMITTEE MEETING |
| | Process Payment Requisitions |
| November 19, 2019 | BUILDING COMMITTEE MEETING |
| | Vote to Approve Trade Contractor Bids |
| | |
| | |
| | ADDITIONAL MEETINGS TO BE SCHEDULED |

| ID | Task Name | Duration | Start | Finish | 2014 2019 | |
|-----|--|----------|------------|------------|-------------|---|
| 1 | MSBA PREREQUISITES | 431 days | 3/9/2015 | 11/9/2016 | | |
| 4 | RETAIN OPM | 45 days | 1/30/2017 | 4/3/2017 | | |
| 10 | RETAIN DESIGNER | 80 days | 3/8/2017 | 6/27/2017 | | |
| 20 | FEASIBILITY STUDY (FS) | 161 days | 6/27/2017 | 2/14/2018 | | |
| 35 | SCHEMATIC DESIGN (SD) | 86 days | 2/14/2018 | 6/13/2018 | | |
| 42 | PROJECT SCOPE AND BUDGET | 139 days | 5/23/2018 | 12/6/2018 | | |
| 50 | DESIGN DEVELOPMENT | 119 days | 11/8/2018 | 4/26/2019 | | |
| 59 | SITE PERMITTING | 170 days | 11/7/2018 | 7/8/2019 | | |
| 89 | BUILDING PERMITTING | 102 days | 6/18/2019 | 11/8/2019 | | |
| 94 | CONSTRUCTION DOCUMENTS | 160 days | 3/8/2019 | 10/21/2019 | | |
| 95 | Incorporate MSBA DD Comments | 11 days | 4/29/2019 | 5/13/2019 | | |
| 96 | Develop 60% Contract Documents to Estimator | 30 days | 4/8/2019 | 5/17/2019 | | |
| 97 | Early Site Enabling, and Preparation Package No. 1 | 51 days | 3/8/2019 | 5/17/2019 | | |
| 98 | OPM and Cx Review | 13 days | 5/17/2019 | 6/4/2019 | | |
| 99 | 60% Construction Documents Cost Estimate | 13 days | 5/17/2019 | 6/4/2019 | | |
| 100 | 60% Construction Documents Submission to MSBA | 0 days | 6/18/2019 | 6/18/2019 | | 6/18/2019 ◆ 60% Construction Documents S |
| 101 | MSBA Review of 60% CD Submission | 16 days | 6/19/2019 | 7/11/2019 | | |
| 102 | Incorporate MSBA 60% CD Comments | 11 days | 7/10/2019 | 7/24/2019 | | |
| 103 | Develop 90% Contract Documents to Estimator | 30 days | 6/18/2019 | 7/30/2019 | | |
| 104 | Early Foundation and Structural Package No. 2 | 30 days | 6/18/2019 | 7/30/2019 | | |
| 105 | Structural Peer Review of Early Foundation and Structural Package | 16 days | 7/30/2019 | 8/20/2019 | | |
| 106 | 90% Construction Documents Cost Estimate | 16 days | 7/30/2019 | 8/20/2019 | | |
| 107 | 90% Construction Documents Submission to MSBA | 0 days | 9/4/2019 | 9/4/2019 | | 9/4/2019 ◆ 90% Construction Documents |
| 108 | MSBA Review of 90% CD Submission | 16 days | 9/4/2019 | 9/25/2019 | | |
| 109 | Incorporate MSBA 90% CD Comments | 11 days | 9/25/2019 | 10/9/2019 | | |
| 110 | Construction Documents Complete Package No. 3 | 0 days | 10/9/2019 | 10/9/2019 | | 10/9/2019 ◆ Construction Documents Cor |
| 111 | LEED-S Design Submission | 9 days | 10/9/2019 | 10/21/2019 | | |
| 112 | PROCUREMENT | 514 days | 12/6/2017 | 12/9/2019 | | |
| 113 | CM Selection | 73 days | 12/6/2017 | 3/21/2018 | | |
| 120 | Prequalification - Package No. 2 Trade Contractors | 53 days | 4/22/2019 | 7/3/2019 | | |
| 128 | Prequalification - Package No. 3 Trade Contractors | 71 days | 6/24/2019 | 10/2/2019 | | |
| 129 | Develop Draft RFQs | 21 days | 6/24/2019 | 7/23/2019 | | |
| 130 | Submit Advertisement to Central Register and Local Newspaper | 0 days | 7/23/2019 | 7/23/2019 | | 7/23/2019 ◆ Submit Advertisement to Cent |
| 131 | Notice in Central Register | 0 days | 7/31/2019 | 7/31/2019 | | 7/31/2019 ◆ Notice in Central Register |
| 132 | Submit SOQs | 0 days | 8/28/2019 | 8/28/2019 | | 8/28/2019 ◆ Submit SOQs |
| 133 | Review SOQs | 19 days | 8/28/2019 | 9/24/2019 | | |
| 134 | Recommend Prequalified Trade Contractors to SBC | 0 days | 10/1/2019 | 10/1/2019 | | 10/1/2019 ◆ Recommend Prequalified Tra |
| 135 | Issue Notification Letters to Prequalified Trade Contractors | 0 days | 10/2/2019 | 10/2/2019 | | 10/2/2019 ◆ Issue Notification Letters to F |
| 136 | 100% Construction Documents Package No. 3 | 48 days | 10/1/2019 | 12/9/2019 | | |
| 137 | Submit Advertisement to Central Register and Newspaper | 0 days | 10/1/2019 | 10/1/2019 | | ◆ 10/1/2019 |
| 138 | Notice in Central Register | 0 days | 10/9/2019 | 10/9/2019 | | 10/9/2019 ◆ Notice in Central Register |
| 139 | Bid Package Issued | 0 days | 10/9/2019 | 10/9/2019 | | 10/9/2019 ◆ 10/9/2019 |
| 140 | Pre-Bid Meeting | 0 days | 10/15/2019 | 10/15/2019 | | 10/15/2019 ◆ Pre-Bid Meeting |
| 141 | Trade Contractor Bids Due | 0 days | 11/6/2019 | 11/6/2019 | | 11/6/2019 ◆ Trade Contractor Bids Due |
| 142 | CM Develop GMP | 21 days | 11/8/2019 | 12/9/2019 | | |
| 143 | GMP Approval | 0 days | 12/9/2019 | 12/9/2019 | | 12/9/2019 ◆ GMP Approval |
| 144 | EARLY PACKAGES PROCUREMENT | 85 days | 5/17/2019 | 9/17/2019 | | |
| 145 | Early Site Package No. 1 | 18 days | 5/17/2019 | 6/12/2019 | | |
| 149 | Early Foundation, Steel and Elevator Structural Package No. 2 | 44 days | 7/16/2019 | 9/17/2019 | | 9/17/2019 ◆ Early Foundation, Steel and E |
| 158 | CONSTRUCTION | 736 days | 6/11/2019 | 4/21/2022 | | |
| 159 | Notice to Proceed | 0 days | 6/11/2019 | 6/11/2019 | | 6/11/2019 ◆ Notice to Proceed |
| 160 | Site Mobilization | 0 days | 6/18/2019 | 6/18/2019 | | 6/18/2019 ◆ Site Mobilization |
| 161 | Substantial Completion - Phase 1 "Enabling Work" | 43 days | 6/18/2019 | 8/16/2019 | | |
| 162 | 50% DCAMM Evaluation | 0 days | 8/15/2020 | 8/15/2020 | | 8/15/2020 ◆ 50% DCAMM Evaluation |
| 163 | Punch List Start | 0 days | 4/15/2021 | 4/15/2021 | | 4/15/2021 ◆ Punch List Start |
| 164 | Punch List Complete | 0 days | 6/15/2021 | 6/15/2021 | | 6/15/2021 ◆ Punch List Comp |
| 165 | Substantial Completion - Phase 2 "Building Construction" | 0 days | 6/15/2021 | 6/15/2021 | | 6/15/2021 ◆ Substantial Com |
| 166 | Final Completion, Closeout and Commissioning | 34 days | 6/15/2021 | 7/30/2021 | | |
| 167 | FFE/Technology Installation | 34 days | 6/15/2021 | 7/30/2021 | | |
| 168 | Teacher/Staff Move-In | 21 days | 8/2/2021 | 8/30/2021 | | |
| 169 | Occupancy | 0 days | 8/30/2021 | 8/30/2021 | | 8/30/2021 ◆ Occupancy |
| 170 | Demolish Existing School | 66 days | 7/3/2021 | 10/4/2021 | | |
| 171 | Parking Lot and Playground Construction | 55 days | 10/4/2021 | 12/20/2021 | | |
| 172 | CM Request for Final Payment | 0 days | 12/20/2021 | 12/20/2021 | | 12/20/2021 ◆ CM Request |
| 173 | Substantial Completion - Phase 3 "Demolition and Site Work" | 0 days | 12/20/2021 | 12/20/2021 | | 12/20/2021 ◆ Substantial C |
| 174 | Closeout | 46 days | 12/20/2021 | 2/21/2022 | | |
| 175 | Final Completion | 46 days | 12/20/2021 | 2/21/2022 | | |
| 176 | 100% DCAMM Evaluation | 0 days | 2/21/2022 | 2/21/2022 | | 2/21/2022 ◆ 100% DCAM |
| 177 | LEED-S Construction Submission | 46 days | 12/20/2021 | 2/21/2022 | | |
| 178 | MSBA Final Payment Reimbursement Request | 0 days | 3/1/2022 | 3/1/2022 | | 3/1/2022 ◆ MSBA Final |
| 179 | Commissioning Agent 10-month Inspection | 0 days | 4/15/2022 | 4/15/2022 | | 4/15/2022 ◆ Commissio |
| 180 | Commissioning Agent Final Report Submission to MSBA | 0 days | 4/15/2022 | 4/15/2022 | | 4/15/2022 ◆ Commissio |
| 181 | Commissioning Agent Submission of Certification | 0 days | 4/15/2022 | 4/15/2022 | | 4/15/2022 ◆ Commissio |
| 182 | USGBC Issuance of Certification | 0 days | 4/21/2022 | 4/21/2022 | | 4/21/2022 ◆ USGBC Iss |

**New W. Edward Balmer Elementary School
List of Prequalified Trade Contractors
100% Construction Documents Package
September 24, 2019**

| Trade | Company |
|--|--|
| Masonry | Costa Brothers Masonry |
| | Empire Masonry Corp. |
| | Fernandes Masonry |
| | Lighthouse Masonry, Inc. |
| | Marmelo Bros. Construction |
| Miscellaneous & Ornamental Iron | The Berlin Steel Construction Company |
| | Quinn Bros. of Essex, Inc. |
| | SMJ Metal Co., Inc. dba Ralph's Blacksmith |
| | United Steel, Inc. |
| | V&G Iron Works, Inc. |
| Waterproofing, Dampproofing & Caulking | Armani Restoration, Inc. |
| | Beacon Waterproofing & Restoration Inc. |
| | Folan Waterproofing & Construction Co., Inc. |
| | Gleeson Powers, Inc. |
| | P.J. Spillane Co., Inc. |
| | Superior Caulking & Waterproofing Co., Inc. |
| | The Waterproofing Company, LLC |
| Roofing & Flashing | Capeway Roofing Systems, Inc. |
| | Feeley McAnespie, Inc. |
| | Gibson Roofs, Inc. |
| | Greenwood Industries, Inc. |

New W. Edward Balmer Elementary School, Whitinsville, Massachusetts
Trade Contractor Prequalification Committee

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| Trade | Company |
|--------------------|---------------------------------------|
| Roofing & Flashing | J.D. Rivet & Co., Inc. |
| | John F. Shea Co., Inc. |
| | Rockwell Roofing, Inc. |
| | Silktown Roofing, Inc. |
| | Stanley Roofing Co., Inc. |
| | Titan Roofing, Inc. |
| Metal Windows | A & A Window Products, Inc. |
| | Chandler Architectural Products, Inc. |
| | Cherry Hill Glass Co., Inc. |
| | G.V.W., Inc. |
| | Kapiloff's Glass, Inc. |
| | Lizotte Glass, Inc. |
| | Lockheed Window Corp. |
| | R&R Window Contractors, Inc. |
| Glass & Glazing | A & A Window Products, Inc. |
| | Aluminum & Glass Concepts, Inc. |
| | Chandler Architectural Products, Inc. |
| | Cherry Hill Glass Co., Inc. |
| | Greenfield Glass Company, Inc. |
| | G.V.W., Inc. |
| | Kapiloff's Glass, Inc. |
| | Lizotte Glass, Inc. |
| | R&R Window Contractors, Inc. |

New W. Edward Balmer Elementary School, Whitinsville, Massachusetts
Trade Contractor Prequalification Committee

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| Trade | Company |
|-------------------------|--|
| Tile | Ayotte & King for Tile, Inc. |
| | Capital Carpet & Flooring Specialist, Inc. |
| | Joseph Cohn & Sons Tile & Terrazzo, LLC |
| | M. Frank Higgins & Co., Inc. |
| | Pavilion Floors, Inc. |
| | Roman Tile Company, Inc. |
| Acoustical Ceiling Tile | Central Ceilings, Inc. |
| | H. Carr & Sons, Inc. |
| | K&K Acoustical Ceilings, Inc. |
| | The Cheviot Corporation |
| Resilient Floors | Ayotte & King for Tile, Inc. |
| | Capital Carpet & Flooring Specialist, Inc. |
| | CJM Services, Inc. |
| | M. Frank Higgins & Co., Inc. |
| | Pavilion Floors, Inc. |
| Painting | Bello Painting Co., Inc. |
| | Color Concepts, Inc. |
| | Dandis Contracting, Inc. |
| | Homer Painting |
| | King Painting, Inc. |
| Fire Protection | Carlisle Engineering, Inc. |
| | Cogswell Sprinkler Co., Inc. |
| | Covenant Fire Protection |
| | Hampshire Fire Protection Co., Inc. |

New W. Edward Balmer Elementary School, Whitinsville, Massachusetts
Trade Contractor Prequalification Committee

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| Trade | Company |
|-----------------|---|
| Fire Protection | Rustic Fire Protection |
| | SRI Fire Sprinkler, LLC |
| | Yankee Sprinkler Co. |
| Plumbing | Araujo Bros. Plumbing and Heating, Inc. |
| | B-G Mechanical Contractors, Inc. |
| | Charles M. Moran Plumbing and Heating, Inc. |
| | Grasseschi Plumbing & Heating, Inc. |
| | Harold Brothers |
| | KMD Mechanical Corp. |
| | N.B. Kenney Company, Inc. |
| | William F. Lynch Co., Inc. |
| HVAC | B-G Mechanical Contractors, Inc. |
| | CAM HVAC & Construction, Inc. |
| | General Mechanical Contractors, Inc. |
| | Harold Brothers |
| | KMD Mechanical Corp. |
| | N.B. Kenney Company, Inc. |
| | William F. Lynch Co., Inc. |
| Electrical | Annese Electrical Services, Inc. |
| | M.L. Schmitt, Inc. |
| | Systems Contracting, Inc. |
| | Wayne J. Griffin Electric, Inc. |



Massachusetts School Building Authority

Deborah B. Goldberg
Chairman, State Treasurer

James A. MacDonald
Chief Executive Officer

John K. McCarthy
Executive Director / Deputy CEO

September 27, 2019

Ms. Alicia Cannon
Northbridge Board of Selectmen
Northbridge Town Hall
7 Main Street
Whitinsville, MA 01588

Re: Town of Northbridge, W. Edward Balmer Elementary School

Dear Ms. Cannon:

The Massachusetts School Building Authority (the "MSBA") is forwarding review comments of the 90% Construction Documents submission for the W. Edward Balmer Elementary School Project in the Town of Northbridge, received by the MSBA on September 6, 2019.

Responses to the attached comments shall be forwarded to Brian Lynch (Brian.Lynch@MassSchoolBuildings.org) through the Owner's Project Manager. Please review and return responses within 14 days of receipt of this letter.

If you have any questions or comments, please do not hesitate to contact Kevin Sullivan (Kevin.Sullivan@MassSchoolBuildings.org).

Sincerely,



Karl Brown, AIA
Design Director

Attachment: 90% Construction Documents Review Comments

Cc: Legislative Delegation
Adam Gaudette, Northbridge Town Manager
James J. Athanas, Chair, Northbridge Board of Selectmen
Michael LeBrasseur, Chair, Northbridge School Committee
Amy McKinstry, Superintendent, Northbridge Public Schools
Melissa Walker, Director of Business and Finance, Northbridge Public Schools

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September 27, 2019

Northbridge 90% Submission Review Comments

Joseph Strazzula, Chair, Northbridge School Building Committee

Joel G. Seeley, Owner's Project Manager, Symmes Maini & McKee Associates, Inc.

Lee P. Dore, Designer, Dore & Whitter Architects, Inc.

File: 10.2 Letters (Region 2)

APPENDIX 6C

MODULE 6 – 90% CONSTRUCTION DOCUMENTS REVIEW COMMENTS

District: Town of Northbridge

School: West Balmer Elementary School

Owner's Project Manager: SMMA

Designer Firm: Dore & Whittier Architects, Inc.

Submittal Received Date: September 6, 2019

Review Date: September 9–27, 2019

Reviewed by: Gienapp Architects, K. Brown, K. Sullivan, R. Hudson

MSBA REVIEW COMMENTS

The following comments¹ on the 90% construction documents submittal are issued pursuant to a review of the project submittal document for the new construction of the proposed project and presented as a 90% construction documents submission in accordance with the MSBA Module 6 Guidelines.

6C.1 Summary Comments

- Basic Project Information.
 - *Enrollment: Grades K-5 with an enrollment of 1,030 students, plus Pre-K (90 students)*
 - *PFA GSF: 167,352*
 - *Project Type: New construction*
 - *Construction Delivery Method: Construction Manager at Risk (Fontaine Brothers Inc.)*
- Budget comments:
 - *The total project budget per the PFA is \$100,968,194, and the information provided in the 90% CD Updated Total Project Budget indicates \$100,968,194.*
 - *The construction cost estimates are \$79,401,426 (CMR's estimate by Fontaine Bros., Inc.) and \$79,181,034 (Designer's estimate by PM&C).*
 - *The construction budget per the PFA is \$79,492,663, and the information provided in the Updated Total Project Budget confirms that the construction cost of \$79,401,426 is within budget.*

¹ The written comments provided by the MSBA are solely for purposes of determining whether the submittal documents, analysis process, proposed planning concept and any other design documents submitted for MSBA review appear consistent with the MSBA's guidelines and requirements, and are not for the purpose of determining whether the proposed design and its process may meet any legal requirements imposed by federal, state or local law, including, but not limited to, zoning ordinances and by-laws, environmental regulations, building codes, sanitary codes, safety codes and public procurement laws or for the purpose of determining whether the proposed design and process meet any applicable professional standard of care or any other standard of care. Project designers are obligated to implement detailed planning and technical review procedures to effect coordination of design criteria, buildability, and technical adequacy of project concepts. Each city, town and regional school district shall be solely responsible for ensuring that its project development concepts comply with all applicable provisions of federal, state, and local law. The MSBA recommends that each city, town and regional school district have its legal counsel review its development process and subsequent bid documents to ensure that it is in compliance with all provisions of federal, state and local law, prior to bidding. The MSBA shall not be responsible for any legal fees or costs of any kind that may be incurred by a city, town or regional school district in relation to MSBA requirements or the preparation and review of the project's planning process or plans and specifications.

- Additional comments:
 - *The technical attributes of the exterior wall sections and details require additional Designer review. These are noted in the specification and drawing notes below. The concerns are primarily related to potential breaches in the continuity of insulation, the limitations in the workability of materials (e.g. rigid insulation and mineral wool) and the limited construction tolerances accommodated by the details. The details should be reviewed and consideration should be given to a final quality control review and updating of the details before being issued to bid to avoid the necessity to issue revisions during construction.*

6C.2 OPM Deliverables: *Unless specifically stated otherwise, the OPM deliverables are included in the submission with no response from MSBA required.*

6C.2.1 Submittal Review & Coordination

- Review Designer submissions; make recommendations to Owner. Address each of the following items individually, and describe how each was evaluated.
- Coordinate design; include written recommendations to the Owner.
 - Technical accuracy, coordination & clarity.
 - Efficiency & cost effectiveness.
 - Operability.
 - Constructability.
 - Phasing.
 - Bid-ability.
 - Site access during construction.
- Coordinate the commissioning consultant's review.
 - Include Cx review & District response.
 - Incorporate Cx recommendations.
- Coordinate the District response to MSBA comments of previous submittal.
 - Include MSBA review & District response.
 - Comments addressed / comment resolution outstanding.

6C.2.2 Project Schedule: All schedules should be presented in calendar days.

Update project schedule: As a minimum, the schedule update should provide the same level of detail as was included in Exhibit C of the Project Funding Agreement, expanded and updated to include milestones for Design Development, Bidding, Construction, and Closeout. The updated schedule should include proposed critical path and construction milestone information. In addition to the construction milestones, the schedule must also include the following information as listed in MSBA Module 7, Schedule Activities:

- Punch list start and end dates.
- Date of Project Registration with the US Green Building Council ("USGBC") or Collaboration for High Performance Schools ("CHPS").

- Provisional/Design package submittal date to USGBC or CHPS.
- Submittal date of 50% DCAMM Notification and 100% DCAMM Notification.
- General Contractor/Construction Manager request for final payment.
- Commissioning Consultant inspection (substantial completion plus approximately 10 months).
- Submittal date of Final Commissioning Report to MSBA.
- Submittal date of Final Construction package including but not limited to Final Commissioning Report to USGBC or CHPS.
- Anticipated issuance date of final Green School Program Certification letter from USGBC or CHPS.
- Submittal date to MSBA of Commissioning Certificate of Completion
- Submittal date to MSBA of final reimbursement request.
- Indicate submission dates for the following approvals. In addition, provide dates for any other state or federal approval not listed below (the following list is not a comprehensive itemization of required state approvals; other requirements may apply, and some of the items listed below may not be applicable to this project). Indicate "Not Applicable" where appropriate:
 - DESE - Special Education approval by Department of Elementary and Secondary Education.
 - MHC – Project Notification Form and approvals by MA Historical Commission.
 - OIG - Construction Manager at Risk approval by the Office of Inspector General.
 - Executive Office of Energy and Environmental Affairs / EEA:
 - MEPA - MA Environmental Policy Act by Energy & Environmental Affairs:
 - ENF - Environmental Notification Form. *The submission indicates this is not applicable.*
 - EIR - Environmental Impact Report. *The submission indicates this is not applicable.*
 - Article 97 Land Disposition Policy approval by Energy & Environmental Affairs. *The submission indicates this is not applicable.*
 - MA DEP - Massachusetts Department of Environmental Protection. *The submission indicates this is not applicable.*
 - MA DOT - Massachusetts Department of Transportation. *The submission indicates this is not applicable.*
 - MA DPH - Massachusetts Department of Public Health. *The submission indicates this is not applicable.*
 - EPA –NPDES National Pollutant Discharge Elimination System Notice of Intent approval by the US Environmental Protection Agency.
 - MAAB – Accessibility variances by MA Architectural Access Board. *The submission indicates this is not applicable.*

- Any state reviews or approvals which remain incomplete at the time of the 90% CD submission render the submission out of compliance with Section 4.12 of the PFA, and may result in suspension of reimbursement requests to the District until such time as all required state reviews or approvals are obtained.
- If there are outstanding reviews or approvals, provide revisions to the construction bid schedule.
- The schedule is to be updated and submitted to MSBA as often as is required to reflect any changes, including any changes to milestone dates, but must be submitted with each design submittal (DD, 60% CD, 90% CD).
- The schedule is to incorporate 21 calendar day required duration for MSBA review of each submission, and a minimum of 14 calendar days for project team incorporation of MSBA review comments as well as all others into the project documents prior to the due date of the next submission or finalizing project documents for bidding. 35 calendar days for each submission is the minimum acceptable duration; if the project team believes additional time is required for any or all of the submissions the durations for these activities are to be increased accordingly.

6C.2.3 Scope and Budget

- Update project scope and budget:
 - Reconciled construction cost estimate including Designer/OPM comparison chart:
 - Prepare independent construction cost estimates pursuant to Section 8.1.2.2 of the Contract for Project Management Services, with escalation to the mid-point of construction, for comparison with the Designer's cost estimate, based upon design development progress documents. *Included, however, the comparison spreadsheet does not include escalation to mid-point of construction. This should be reviewed, updated, and provided with the response to these comments.*
 - CMR (if applicable).
 - If Owner has not yet contracted with a Construction Manager (CM), the OPM must develop a construction cost estimate for comparison with the Designer's cost estimate.
 - If the Owner has given the CM a Notice to Proceed, the OPM must review cost estimates provided by the Designer and CM and provide a detailed line by line reconciliation of the Designer's and CM's construction cost estimates.
 - Updated project budget in the total project budget format, based on the reconciled construction cost estimate. If the reconciled estimate is not used for the updated project budget, provide an explanation.
 - Value Engineering recommendations. *The submission indicates these are not required.*

- For any Value Engineering recommendations which have been accepted, provide a copy of the Committee vote. *See previous note.*
- Provide a letter confirming that prequalification requirements for the General Contractor and subcontractors have been completed.

6C.3 Designer Deliverables: *Unless specifically stated otherwise, the Designer deliverables are included in the submission with no response from MSBA required.*

6C.3.1 General Requirements

- Submit updated work plan. *The work plan is dated June 18, 2019, so it is unclear whether it is the most current/updated iteration. Clarify in the response to these comments.*
- Updated and expanded Basis of Design narrative description for all disciplines. *Included, however, the majority of narratives do not have dates, making it difficult to verify how current they may be. The Architectural Narrative is dated August 15, 2019, and is labelled "draft." Please clarify if the version provided to MSBA is indeed the most current Basis of Design narrative, and if not, provide the most recent version.*
- Updated building code analysis. *Included, however, the code analysis is not dated and thus it is unclear how recent it is. Please clarify if the version provided to MSBA is indeed the most current code analysis, and if not, provide the most recent version.*
- Provide an final list identifying all proposed proprietary items (if any) with an affidavit which shall indicate that an elected body of the district (school committee, city or town council, or selectmen, -but not ad-hoc building committee) has been presented with proposals for proprietary requirements approval action, has had an opportunity to investigate, or to require staff or consultant investigation upon each item so proposed, and has majority voted in an open public session that it is in the public interest to do so. Provide MSBA with a certified copy of the vote of the elected body.
- Updated interior color theory statement describing proposed paint and material selections and colors for typical and special spaces, why they have been selected and how these selections relate to exterior materials and colors. Confirm that color and material selections have been presented to and approved by the District.
- Updated independent structural design review in compliance with the current edition of The Massachusetts State Building Code (an MSBA requirement for all projects with new construction over 10,000 sf). MSBA requires submission of a structural engineering peer review as part of the Final (100%) Construction Documents submission, to include documentation of resolution of any issues identified by the Peer Reviewer. Confirm that scheduling was arranged to allow final structural design drawings and calculations to be submitted to the peer reviewer at the time of completion of the 90% Construction Documents submittal, in order to incorporate structural peer review comments and response action reporting in the final construction documents in order to avoid delays. *The submission indicates that a peer*

review was completed by RSV Associates on July 16, 2019, and that the review comments were incorporated into the project's Early Release Package #2. Confirm in the response to this review and provide a copy of the peer review as part of the response to these review comments.

- Updated quality Control documents demonstrating:
 - Ceiling clearances.
 - Mechanical room and shaft sizes.
 - Coordinate specifications and drawings.
 - Filed sub-bid work.
 - Scheduling.
 - Equipment and power.
 - Existing and new construction.
 - Phasing.

6C.3.2 Space Summary

- Updated space summary and signed certification that reflects the current design. *Based on the space summary provided, the MSBA notes the following:*

| <u>Spaces</u> | <u>PFA Space Summary</u> | <u>DD Space Summary</u> | <u>60% CD Space Summary</u> | <u>90% CD Space Summary</u> | <u>Difference to PFA</u> | <u>Comments</u> |
|-------------------------------|----------------------------------|-----------------------------|-------------------------------------|-------------------------------------|------------------------------|--|
| Core Academic Spaces | 62,850 | 62,850 | 62,850 | 62,850 | - | This category has not changed since the PFA. |
| Special Education | 13,530 | 13,530 | 13,530 | 13,530 | - | This category has not changed since the PFA. |
| Art and Music | 5,150 | 5,150 | 5,150 | 5,150 | - | This category has not changed since the PFA. |
| Health and Physical Education | 6,298 | 6,298 | 6,298 | 6,298 | - | This category has not changed since the PFA. |
| Media Center | 5,305 | 5,305 | 5,305 | 5,305 | - | This category has not changed since the PFA. |
| Dining and Food Service | 11,955 | 11,955 | 11,955 | 11,955 | - | This category has not changed since the PFA. |
| Medical | 810 | 810 | 810 | 810 | - | This category has not changed since the PFA. |
| Administration and Guidance | 3,040 | 3,040 | 3,040 | 3,040 | - | This category has not changed since the PFA. |
| Custodial and Maintenance | 2,630 | 2,630 | 2,630 | 2,630 | - | This category has not changed since the PFA. |
| Other | | | | | - | |

| | | | | | | |
|--|----------------|----------------|----------------|----------------|----------|---|
| Total Building Net | 111,568 | 111,568 | 111,568 | 111,568 | - | This category has not changed since the PFA. |
| Non Programmed | | | | | | |
| Other Occupied Rooms | | | | | | |
| IT Office/Repair | 150 | 150 | 338 | 150 | | This category aligns with the PFA. |
| Unoccupied MEP/FP | 2,125 | 2,008 | 1,824 | 2,006 | (119) | This category has decreased by 119 nsf since the PFA. |
| Unoccupied Closets, Supply Rooms & Storage | 641 | 646 | 625 | 629 | (12) | This category has decreased by 12 nsf since the PFA. |
| Toilet Rooms | 3,955 | 3,937 | 3,943 | 3,991 | 36 | This category has increased by 36 nsf since the PFA. |
| Circulation | 29,396 | 31,893 | 30,580 | 31,421 | 2,025 | This category has increased by 2,025 nsf since the PFA. |
| Remaining | 19,517 | 17,150 | 18,474 | 17,587 | (1,930) | This category has decreased by 1,930 nsf since the PFA. |
| Total Gross | 167,352 | 167,352 | 167,352 | 167,352 | - | |
| Grossing Factor | 1.50 | 1.50 | 1.50 | 1.50 | - | |

- Comparison of the current design with the final educational program, and confirmation that there are no variations. If there are variations, the written summary must address the following:
 - Explanation of deviations within the space summary from the Project Funding Agreement.
 - Regarding DESE approved SPED spaces – *No changes to DESE approved SPED spaces are proposed.*
 - Regarding DESE approved Public Day Education spaces; *Not Applicable per the submission.*
 - Regarding DESE pre-approved Chapter 74 Program spaces; *Not Applicable per the submission.*

6C.3.3 Project Approvals

- Describe the status of the following approvals. In addition, provide the status of any other state or federal approval not listed below (the following list is not a comprehensive itemization of required state approvals; other requirements may apply, and some of the items listed below may not be applicable to this project). Provide a copy of the appropriate application forms and/or approval letters where applicable. Indicate "Not Applicable" where appropriate:
 - DESE - Special Education approval by Department of Elementary and Secondary Education. *The submission indicates that this approval has been obtained. However, no approval letter or application form is*

- included in the submission. This should be provided with the response to these comments.*
- MHC – Project Notification Form and approvals by MA Historical Commission. *The submission indicates that this approval has been obtained. However, no approval letter or application form is included in the submission. This should be provided with the response to these comments.*
 - OIG - Construction Manager at Risk approval by the Office of Inspector General. *The submission indicates that this approval has been obtained. However, no approval letter or application form is included in the submission. This should be provided with the response to these comments.*
 - Executive Office of Energy and Environmental Affairs / EEA:
 - MEPA - MA Environmental Policy Act by Energy & Environmental Affairs:
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 - MA DOT - Massachusetts Department of Transportation. *The submission indicates this is not applicable.*
 - MA DPH - Massachusetts Department of Public Health. *The submission indicates this is not applicable.*
 - EPA –NPDES National Pollutant Discharge Elimination System Notice of Intent approval by the US Environmental Protection Agency. *The submission indicates that this approval has been obtained. However, no approval letter or application form is included in the submission. This should be provided with the response to these comments.*
 - MAAB - Accessibility variances by MA Architectural Access Board. *The submission indicates this is not applicable.*
 - Confirmation that the Project has undergone review and obtained all necessary approvals by any departments or agencies of the Commonwealth required by law to review the Project, including but not limited to the approvals listed above. Attach such letter of documentation evidencing such reviews and approvals. *Confirmed, however, no documentation letter is provided for relevant reviews and approvals. This should be provided with the response to these comments.*
 - In accordance with Section 4.12 of the Project Funding Agreement (the “PFA”), the District must obtain such reviews or approvals prior to the solicitation of construction bids. Any state reviews or approvals which remain incomplete at the time of the 90% CD submission render the submission out of compliance with Section 4.12 of the PFA, and may result in suspension of

reimbursement requests to the District until such time as all required state reviews or approvals are obtained.

- List and target dates for all local zoning approvals, testing and permits.
- Provide a certification that all applicable utility officials have been contacted by the Designer regarding each basic design, and utility connections. *The submission states that the Designer has contacted gas and electric utilities, but no further confirmation is provided. Confirmation that other utilities have been contacted should be provided with the response to these comments.*

6C.3.4 Cost Estimate

- Provide a final construction cost estimate, based on the 90% Construction Documents, including cost estimates for general conditions, overhead and profit, insurance, bonds, and all other items; and allowances expressed as percentage rates for construction contingencies and escalation to the mid-point of the construction period; and other mutually agreed upon contingencies. Prepare the construction cost estimate in the CSI MasterSpec format to Level 3 and M.G.L. c.149, §44F (filed sub-bid) format including a single line outline specification description for each item with the detailed unit rate or item cost buildup provided as a backup in each case. *The Designer's final cost estimate does not include escalation to the mid-point of construction. This should be updated and provided with the response to these comments.*
- The date of the estimate should be no earlier than the date of 90% Construction Documents. *The cost estimates are dated prior to the 90% Construction Documents September 4, 2019 date. Confirm the estimate is based on the design as submitted to the MSBA.*
- Provide a summary sheet including the following: *Provide an updated summary sheet that includes the following missing dates:*
 - Date that the estimate was prepared (value date). *Included; however, see comment above.*
 - Anticipated bid date. *Not included.*
 - Project and contract number. *Not included.*
 - Title and location of the project.
 - Name of the Designer.
 - Name of the Estimator.
 - Site cost (including all utilities).
 - Building cost (including fixed equipment).
 - Estimated construction cost of each Phase of the work, totaled. *Not included.*
 - Costs of Item 1 and Item 2 work, as distinguished in the General Contractor's bid forms, individually totaled. *Not included.*

6C.3.5 Drawings (developed to 90% CD progress level)

- Cover sheet showing a list of all drawings, symbols, abbreviations, notes, locations map (the project title should be visible when the drawings are

rolled). *The symbols and abbreviations are not included on the cover sheet; however, they are included elsewhere in the set. The legends do not appear to be all inclusive. For example, the material legend on AG0.01 does not include mineral wool insulation. On some details, it is clearly identified; however, it is not clearly identified on others and may be mistaken as rigid insulation. This should be reviewed and clarified and updated, as needed, in the bid documents.*

- Site drawings showing the following:
 - Layout and location of all proposed work with details.
 - Existing and proposed contours including floor elevations showing drainage away from the building.
 - Bench marks and boring locations.
 - Landscaping and planting.
 - All utility service lines, systems and structures for electricity, gas, oil, water, steam, telephone, CATV, fire alarm, sanitary and storm drainage.
 - Contract limit line and storage area for construction materials. *The drawings do not identify a construction materials storage area. Please review and update, as needed, in the bid documents.*
 - Site survey which includes, but is not limited to, all existing foundations, obstructions and other physical characteristics of the site.
 - Coordinate light pole bases, concrete pads & landscape enclosure walls with other disciplines. *There is no light pole bases detail. Please review and update, as needed, in the bid documents.*
 - Verify accessibility compliance at paved areas and building approaches.
 - Coordinate landscape patching with civil utility & plumbing work.
 - Exterior benches, flag poles, signage. *There are no bench details or flag poles. Please review and update, as needed, in the bid documents.*
- Demolition drawings and temporary work required. *There are no existing building demolition drawings. Please address the demolition of the existing building, as needed, in the bid documents.*
- Architectural drawings showing the following:
 - Phasing, temporary trailers, storage & fences, gates & parking.
 - Floor plans of each floor, with dimensions, column locations, floor elevations, door and window designations, partition types, built in furniture and equipment, keyed to other architectural drawings. *The floor elevations are not included in the plans. Please review and update, as needed, in the bid documents.*
 - Large scale floor plans where required. *The Pre-K to grade 3 students accessibility requirements are not included. Please review and update, as needed, in the bid documents.*
 - Knox box & fire alarm control panel locations. *Knox Box and FACP locations have not been identified on the plans. Please review and update, as needed, in the bid documents.*
 - Roof plans including equipment, coordinated with MEP/FP drawings.
 - Roof ladders, hatches, pads, PV support, and lightning protection.
 - Coordinate downspout leader locations with civil & plumbing drawings.

- Key plans / overall plans where required.
- Project sign (verify content).
- Building Sections.
- Building elevations. All building elevations, including hidden elevations, fully developed including MEP/FP and security systems, showing context and relation to exterior sloping grade around the building.
- Wall sections indicating dimensions, flashing, anchorage, reinforcing, coursing, cladding, and all other conditions at wall, roof, foundation, interior floors. *Included; however, it does not appear that they are fully coordinated. See comments under Exterior Details below for more information.*
- Coordinated wall sections with grade elevations. *The finish grades are not included in the wall sections. Please review and update, as needed, in the bid documents.*
- Exterior details, for roofing, flashing and other details showing all conditions. *Included; however, it does not appear that they are fully coordinated.*

The weatherability at the water table transition from the phenolic panel such as shown in detail T22 should be reviewed. This detail is dependent upon an accurate and consistent mitered cut of rigid insulation, a very rigid flashing (which would need to be an extrusion) and very tight tolerances of the location of the precast profile. At a minimum the flashing should be sealed on the underside. The detail is more questionable when the distance from the precast to the backup is increased such as in detail N27/A6.60 Mid-wall Brick to MCM Panel. This detail should be reviewed and updated, as needed, in the bid documents. Please comment in the response to this review.

There are several exterior details, such as G22/A6.60 Mid-wall Storefront Wall that seem to depend on unrealistic craftsmanship and workability of materials. In this detail, rigid insulation is shown to be tightly cut to varying and thin dimensions around blocking. The enlarged detail R18/A8.80 further illustrates the condition and appears to also show an outer bead of sealant that will prevent the storefront from weeping at the subsill and flashing. In addition, there does not appear to be a sound method to attach blocking in this configuration; it may be necessary to provide bolts through the lower blocking.

All exterior details should be reviewed for constructability and updated as needed in the bid documents. Please comment in the response to this review.

- Interior and exterior expansion joints, control joints, construction joints, and waterstops, detailed and coordinated with structural drawings.
- Doors, windows, entrances, and storefront; schedules and details.
- Vertical circulation plans, sections and details including ramps, stairs, lifts and elevators.
- Elevator venting, hoist beam, thresholds, ladder, sump, wall penetrations, waterproofing.
- Guardrails and handrails including details.

- Interior elevations of all significant and typical spaces.
- Interior details including casework, paneling surfacing and acoustical treatment.
- Flooring & wall material patterns.
- Interior glazing elevations and details. *There are no elevations or details of interior glazing included. Please review and update, as needed, in the bid documents.*
- Reflected ceiling plans coordinated with fire protection, mechanical and electrical drawings.
- Ceiling details.
- Access panels, where required for access, shall be indicated on the drawings and coordinated with the MEP/FP requirements. *Access panels are not included. Please review and update, as needed, in the bid documents.*
- Schedules (clearly define new or existing):
 - Doors.
 - Equipment, e.g. for services.
 - Partitions.
 - Finishes.
- Structural drawings showing the following:
 - Legend and/or graphical symbols on the first sheet of the structural drawings. *A symbols legend is not included on the first sheet; however, various items are included on different structural sheets. Confirm that this is acceptable.*
 - Foundation plans with bottom grades showing layout of all footings, walls, slabs on grade including reinforcing, grade beams, and columns; include design soil bearing pressures and live loads for each area. *The bottom grades of the footings are not included in the plans. Please review and update, as needed, in the bid documents.*
 - Floor and roof plans of structural systems including framing, grades of finished floors and depressed areas, with locations and dimensions for all openings. *The finish floors grades are not included. Please review and update, as needed, in the bid documents.*
 - Complete foundation wall elevation and typical sections, with reinforcing indicating location, dimensions and grades for all footings, steps and wall openings.
 - Complete details and section with dimensions for all construction including expansion and construction joints, reinforcing and other embedded items. Coordinate construction and expansion joint details with specified materials including caulking and sealant. *Expansion joints details are not included in the structural drawings. Please review and update, as needed, in the bid documents.*
 - Schedules (with dimensions) for all lintels, beams, joists, and columns. Coordinate dimensions of all elements listed in the schedules with dimensions depicted on the plans. *There are no schedules for the beams*

and joists; however, this information appears to be provided in other ways. Confirm that this is acceptable for bidding and construction.

- All structural supports required for mechanical equipment.
- General notes including the following information: class and 28-day strength of concrete for each portion, structural steel and concrete reinforcing design stresses for each type of structural member, concrete cover for each type of structural member, shrinkage and temperature steel requirements, reinforcing laps for main reinforcing and temperature steel; bend point, cutoff, and hook locations for all members, minimum beam and lintel bearing. *The minimum reinforcing laps, and minimum beam bearing are not included in the general notes. Please review and update, as needed, in the bid documents.*
- Fire protection drawings showing the following:
 - Legend and/or graphical symbols on the first sheet of the fire protection drawings.
 - Standpipe systems, sprinkler systems, suppression systems, fire pumps, accessories, and piping.
 - All piping, equipment, fixtures, valves and devices shall be located and sized.
 - Design criteria shall be provided on the drawings in accordance with NFPA requirements.
 - All required access panel locations and sizes coordinated with the architectural drawings. *Access panels are not included. Please review and update, as needed, in the bid documents.*
- Plumbing drawings showing the following:
 - Legend and/or graphical symbols on the first sheet of the plumbing drawings.
 - All work done by the plumbing subcontractor, which includes all water, gas, air, vacuum, medical gases, sanitary and storm wastes, and accessories.
 - Accessibility requirements for PK- grade 3 fixtures (where required). *The Pre-K to grade 3 students accessibility requirements are not included. Please review and update, as needed, in the bid documents.*
 - Trapping and venting of all plumbing fixtures including floor drains. Provide location dimensions for floor drains in coordination with the structural plans. *There is no detail showing the floor drains trapping. Please review and update, as needed, in the bid documents.*
 - Water and gas supply sources, storm and sanitary discharge mains.
 - All piping sizes shall be indicated on drawings and riser diagrams. Indicate all directions of flow and pitch on piping. *The flow direction is not included on the pipes. Please review and update, as needed, in the bid documents.*
 - All accessories, valves, fixtures including all drinking fountains and grease traps for kitchen waste.
 - All piping and connections required for other trades (e.g., kitchen equipment, HVAC make-up water, etc.). *The plumbing plans do not show*

the make-up lines going to the boilers. Please review and update, as needed, in the bid documents.

- Acid waste (where required), vents and neutralization systems for laboratories.
- Plumbing riser diagrams.
- Domestic water booster pumps, boiler feed water, meter location, hose bibs. *The boiler feed water is not shown on the plumbing plans. Please review and update, as needed, in the bid documents.*
- Domestic hot water: storage tanks, piping material, hanger details. *Please review, and update the hanger detail as needed in the bid documents.*
- All required access panel locations and sizes coordinated with the architectural drawings. *There are no access panels included. Please review and update, as needed, in the bid documents.*
- Backflow preventers and cleanouts.
- Heating, ventilating and air conditioning drawings showing the following:
 - Legend and/or graphical symbols on the first sheet of the mechanical drawings.
 - Large scale plans of all mechanical & electrical spaces showing equipment to scale. *There is no large-scale plan of the electrical rooms in the HVAC drawings. Please review and update, as needed, in the bid documents.*
 - All piping and ductwork systems shall be located and sized. All ductwork shall be shown double line and drawn to scale.
 - All systems shall be sized at all reductions and riser diagrams of piping and duct systems shall be indicated.
 - All directions of flow and pitch on piping, and direction of flow, volumes for duct systems shall be indicated. *The flow direction has not been included on the pipes. Please review and update, as needed, in the bid documents.*
 - All equipment shall have sufficient servicing and/or replacement space indicated on drawings. *The replacement space has not been indicated on the drawings. Please review and update, as needed, in the bid documents.*
 - All equipment, accessories, valves and dampers.
 - All required access panel locations and sizes coordinated with the architectural drawings. *Access panels not included. Please review and update, as needed, in the bid documents.*
 - Cooling system pumps, chillers, cooling towers, air handling units, ductwork system and dampers, fan details, temperature control system, air and hydronic balancing equipment, and schedules shall be indicated.
 - Cooling tower (where required) shall be indicated on the drawings showing site location, elevations and floor plan of equipment layout and typical flow diagram as related to the total HVAC system. *Not applicable.*
 - All fire and smoke dampers.
 - Mechanical room designs:

- Vent pipes for safety valves, relief valves, back pressure valves and tanks shall be extended above flat roofs in accordance with all governing authorities.
 - In all designs for boiler and refrigeration plants, include a complete floor plan indicating location of all major mechanical equipment and sufficient service space.
 - In designs of new and/or replacement boiler and refrigeration plants, provide a flow diagram detailing steam or hot water distribution systems, return systems, including all existing equipment and their function, as well as any proposed expansions with all necessary instrumentation and controls.
- Electrical Drawings showing the following:
 - Legend and/or graphical symbols on the first sheet of the electrical drawings.
 - General arrangement: Outline layout of each floor, floor and ceiling heights and elevations, and type construction, including concrete pads shall be indicated. Indicate interface with other systems. Identify any work by general contractor or other trades. *The floor and ceiling heights are not included on the plans. Please review and update, as needed, in the bid documents.*
 - Interior lighting system: Light fixture schedules, circuiting location and mounting heights of all fixtures, receptacle and switch outlets, sizes and types of all lamps, conduits, all other accessories and riser diagrams shall be indicated on drawings. Indicate details and method of supporting electrical fixtures and conduits. Designer shall specify that all electrical lighting fixtures be supported from the building structure, and shall be independent of ducts, pipes, ceilings and their supporting members. Comply with seismic design criteria. *Fixture mounting heights are not indicated. Please review and update, as needed, in the bid documents.*
 - Power system: Locations, types and method of control for all motors, heaters, appliances, controllers, starters, branch circuits, feeder conductors and conduits. Indicate riser diagrams. Show details and indicate method of supporting electrical conduit. For larger projects, thermostats and control wiring are normally covered under the HVAC sub-contract, assure coordination.
 - Fire Alarm, Data, Communications, CATV/CCTV Systems: Locations and types of all devices, outlets and equipment, service connections, wiring diagrams, all other essential details.
 - Services: Location and details of all services, whether overhead or underground, feeder sizes, plans and elevations of switchgear and transformers, metering and service switchboard arrangements, wiring and ground fault diagram and bus ducts.
 - General and sub-stations: Location, size, method of connection and protection of all generators, transformers, exciters, motor generators, switch gear, and associated equipment, current characteristics and equipment capacities. Indicate equipment connections by means of one line and/on wiring diagrams and schedule all major items of equipment and all instruments.

- Underground work: The size and locations of manholes and types of cables, number, size, and location of ducts, locations, sizes and types of cable supports, fireproofing, duct line profile, and one-line diagram of connections.
- Pole line work: Location, length, treatment and class of poles, guying, cross arms, insulators, circuiting, transformers, protective and switching devices, lightning arresters, special structures, diagrams, current characteristics and grounding.
- Exterior lighting: Location, size, and type of transformers, luminary, poles, light standards, cables, ducts, and manholes, details of control equipment and connection diagrams.
- Emergency system (where provided) details including transfer switch, type of fuel.
- One-line diagram indicating load KVA, and available short circuit amperes at each transformer, switchboard, distribution panel board, branch circuit panel board, and at major pieces of equipment.
- Riser diagrams for all systems.

6C.3.6 Project Manual (developed to 90% CD progress level)

- The format for the technical specifications shall be CSI Master Format (current version) with separate sections for each of class of work required by M.G.L. c. 149 §44F.
- For each item of material or equipment, the specifications shall provide for a minimum of three named brands of material or equipment and the words "or equal" or a description of material or equipment which can be met by a minimum of three manufacturers or producers, and the words "or equal". Proprietary products shall not be specified except as provided by M.G.L. c. 30, § 39M; however, when they are specified, proprietary specifications are subject to the "or equal" provisions of c. 30, § 39M. *Some specification sections comply; however, many specification sections do not identify three manufacturers. For example, some of these sections, such as 10 2800 Toilet, Bath and Laundry Accessories, describe performance characteristics and identify one manufacturer and state 'or equal'. A full performance specification is required, and the Designer needs to confirm three manufacturers can meet the specification. Fire Protection 210000, for instance, only identifies one brand for many component parts (e.g. 2.08.E, Upright and pendant sprinkler heads; 2.11.A.4 Fire Department Valve Cabinet) and some do not indicate 'or equal' for many items (e.g. 2.08.L specifies a specific product for flexible sprinkler heads and states no substitution is allowed for this item, however, it does not appear to be approved as a proprietary product). The Plumbing section 220010 is written similar to Fire Protection and does not provide the required three products or the full description. All sections should be reviewed and updated as needed to satisfy the requirements before being issued to bid.*
- Do not specify that a product or system shall require prequalification for use prior to bidding.

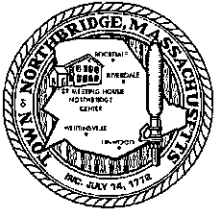
- Include a copy of the geotechnical report, including locations and dates of test boring holes and results of soil investigation, including water levels, allowable solid bearing pressure and bottom grades of footing and slabs.
- List all required filed sub-bids specification sections.
- Each filed sub-bid section shall detail all labor and materials required by the particular sub-trade and list, by number, those drawings (and only those drawings) indicating work of that sub-trade. In addition, list drawings indicating work of a particular trade that appears on drawings that are not customarily included in the work of the trade, when applicable. *The drawings list is not provided for all sections, (e.g. 040001, Masonry Trade Bid Summary; 080001 Metal Windows Trade Bid Summary). Please review all filed sub-bid sections and update, as needed, in the bid documents.*
- Staging, scaffolding, coring, drilling, cutting, patching, refuse collection and disposal, demolition work and cleaning task, allocation policy and proposed language shall be carefully assigned to avoid duplication or omission, and coordinated with all filed sub-bid sections. *This appears to be generally coordinated and is written to require each trade to perform all cutting and coring required for their work. There are instances, such as 260010 Electrical, 3.12.E that appear to be edited from earlier text/copy that required coring be coordinated or performed by others. As it is left in its edited state it does not appear to be clear, as Part 1 requires all coring by the trade section. This should be reviewed and updated, as needed, in the bid documents.*
- Describe the extent of the work, the materials and workmanship, and include the work under the proper section. If any portion of the work included in a section of the specifications is to be performed by a trade covered by another section, there shall be clear and distinct cross-referencing between the sections. Merely to state "by others" is not acceptable. *Appears to generally comply. It appears the intent is that concrete paving is provided by 323116 Concrete Paving. However, as 033000 Cast-in-Place Concrete 1.01.A is currently written it also would include exterior concrete paving. Review all sections and update as needed in the bid documents. Many wall section details, such as those on A6.60, indicate Pre-finished Through-Wall Flashing. Although it is not stated, it appears it is intended this be provided by 076200 Sheet Metal Flashing and Trim. However, a through-wall flashing is not specified in that section (Roof Edge Flashings are specified. There is also a stainless steel sheet material specified but it is not stated any fabrication of this item or its proposed use.). Review and confirm if this flashing is specified in a section and clarify in the response to these review comments which section is to provide it.*
Specify work in appropriate sections according to local trade jurisdiction.
- In sections for which filed sub-bids are required, refrain from using such terms as "the contractor," the "heating contractor," or "the plumbing contractor," but where necessary for clarity refer to the "HVAC subcontractor," the "general contractor" and so on.
- Alternates, if approved in writing by the owner, shall be properly described and cross-referenced in the project manual and drawings. An alternate proposal sheet shall be prepared by the Designer for insertion into the contract form. *No alternate section is included in the specification. If any*

Alternates are intended one needs to be provided. There are spaces on the bid form, which is typical, even if not required. Coordinate as required.

- Allowances are prohibited pursuant to M.G.L. c. 149, § 44G (A).
- Unit price items, if permitted or ordered by the Owner, shall be properly described in the Specifications.
- Indicate goals for compliance with USGBC LEED-s or NE-CHPS standards.
- Do not use general clauses intended to be all-inclusive in lieu of complete descriptions.
- Do not duplicate standard requirements that are contained in the contract form.
- Use consistency throughout. The word "will" shall be used to designate what the owner, authority, owner's project manager, or the Designer can be expected to do, and the word "shall" shall be used to designate what is mandatory for the contractor or subcontractors to do.
- Use the same term throughout for the same subject and the term shall be the same as that used on the drawings. *The terms used for fill materials are not consistent between the specifications and drawings. Section 312300 Excavation and Fill for Utilities and Pavement specifies many different materials with specific names. However, the terms used on some of the civil details, such as C7.04 Site Drainage Details are vague (e.g. Setting Bed) that cannot be matched to the specifications. This should be reviewed and coordinated before being issued to bid.*
In a similar way, the terms used in 312000 Earthmoving cannot be directly related to the structural details, such as on S0.02 Typical Details. Many of the structural details state to refer to the architectural details. Based on the details on A6.50 Base of Wall Details and Wall Section Details, it appears this coordination/correction may have been at least somewhat addressed by Revision 5. However, there are additional details, including on A6.51 where there are not materials indicated. Review and confirm the materials are clear; this may have been addressed in early release packages.
- Do not use the term "etc."
- Avoid such terms as "to the satisfaction of the Designer", "as directed by the Designer", "as approved" and "as required."
- Avoid the use of symbols.
- Do not give numbers both in words and figures. Numbers less than 10 shall be written in words, 10 and higher numbers shall be written in figures. In expressing dimensions, figures such as 2 in., 16 in., 7 ft., 6 in., shall be used.
- Specify materials mined or manufactured in Massachusetts first and the United States of America second whenever possible. *This does not appear to be included in the specifications and should be added before being issued to bid.*
- *The 321726 Tactile Warning Surfacing footer is incorrect.*

6C.3.7 Project Coordination

- Verify all details are accurately cross-referenced to the correct plan sheet.
The details are not cross referenced to the plans. Please review and update, as needed, in the bid documents.
- Verify that the structural, mechanical, or other disciplines, do not conflict with architectural plans or specifications.
- Structural dimensions match architectural drawings.
- Column orientation matches architectural drawings.
- Column grid lines match architectural drawings.
- Column and bearing wall locations match architectural drawings.
- Column locations coordinated with all other disciplines.
- Seismic detailing coordinates with architectural drawings. *There are conflicts between the brace frames and doors and windows. Please review and update, as needed, in the bid documents.*
- Beams and columns protruding horizontally and vertically into stairwells, and other interior spaces.
- The finish grade elevations coordinated between all disciplines.
- Mechanical equipment power requirements and physical locations, including special information as to who mounts, connects, tests, etc.
- Verification of potential spatial conflicts in mechanical equipment.
- Room wall/floor/ceiling construction coordinated with the finish schedule.
There are walls with ceramic tile in the finish schedule, but there are no partition types with backer board and tile among the partition types. Please review and update, as needed, in the bid documents.
- Civil earthwork grading and excavation plans are coordinated with architectural and landscape plans.
- All room numbers are coordinated between all disciplines.
- Equipment plan coordinates with architectural plans.
- All kitchen equipment connected to utility systems.



The Northbridge Public Schools Town of Northbridge

87 Linwood Avenue, Whitinsville, Massachusetts 01588 (508) 234-8156 FAX (508) 234-8469 www.nps.org

Amy McKinstry, Superintendent
Jill Healy, Director of Curriculum

Melissa Walker, Director of Business and Finance
Greg Rosenthal, Director of Pupil Personnel Services

REVISED August 15, 2019

Ms. Jennifer Flynn, Project Coordinator
Massachusetts School Building Authority
40 Broad Street, 5th Floor
Boston, Massachusetts 02109

Dear Ms. Flynn:

In accordance with 963 CMR 2.00, attached for your review and approval is the membership of the School Building Committee for the W. Edward Balmer Elementary School located in the Town of Northbridge. The Committee was formed in accordance with the provisions of all applicable statutes, local charters, by-laws and agreements of the Town of Northbridge. Committee Members include the following:

| Designation | Name and Title | Address | Email Address and Phone Number | Voting Member? |
|---|---|--|---|----------------|
| CHAIR OF SCHOOL BUILDING COMMITTEE | Joseph Strazzulla, Chair | 170 Rebecca Rd. Whitinsville, MA 01588 | jstrazzulla@nps.org 508-942-9930 | Yes |
| SBC member who is MCPPO certified* | Melissa Walker School Business Manager | 87 Linwood Ave. Whitinsville, MA 01588 | mwalker@nps.org 508-234-8156 | Yes |
| Local Chief Executive Officer Representative of Office authorized by law to construct school buildings | Alicia Cannon Board of Selectmen | 271 Marston Rd. Whitinsville, MA 01588 | acdc0927@gmail.com 857-939-5275 | Yes |
| Administrator or Manager* | Adam Gaudette Town Manager | 7 Main St. Whitinsville, MA 01588 | agaudette@northbridgema.org 508-234-2095 | No |
| School Committee Member | Michael LeBrasseur | 295 Hillcrest Rd. Whitinsville, MA 01588 | mlebrasseur@nps.org 508-353-9345 | Yes |
| Superintendent of Schools | Amy McKinstry Superintendent | 87 Linwood Ave. Whitinsville, MA 01588 | amckinstry@nps.org 508-234-8156 | No |
| Local Official responsible for Building Maintenance | Richard Maglione | 87 Linwood Ave. Whitinsville, MA 01588 | rmaglione@nps.org 508-234-8156 | No |

Excellence - Accountability - Collaboration: "Every Student, Every Classroom, Every Day"

It is the policy of the Northbridge Public Schools not to discriminate on the basis of race, color, gender, religion, national origin, sexual orientation, gender identity, disability, age, or homelessness in its educational programs, services, activities, or employment.

| | | | | |
|--|---|--|---|-----|
| Members of community with architecture, engineering and/or construction experience | Paul Bedigian, Representative of the Building, Planning, Construction Committee | 25 June St. Northbridge, MA 01534 | bedigianps@cdmsmith.com 508-234-0264 | Yes |
| School Principal | Karlene Ross W. Edward Balmer Elementary | 21 Crescent St. Whitinsville, MA 01588 | kross@nps.org 508-234-8161 | No |
| School Principal | Theresa Gould Northbridge Elementary School | 30 Cross St. Whitinsville, MA 01588 | tgould@nps.org 508-234-6346 | No |
| Local budget official or member of local finance Committee | Steven Gogolinski Representative of the Finance Committee | 442 Douglas Rd. Whitinsville, MA 01588 | steve@gogolinskicpa.com 508-344-0909 | Yes |
| Member Knowledgeable in educational mission and function of facility | Greg Rosenthal | 87 Linwood Ave. Whitinsville, MA 01588 | grosenthal@nps.org 508-234-8156 | No |
| Members of community with architecture, engineering and/or construction experience | Jeffrey Tubbs | 244 Brookway Dr. Northbridge MA 01534 | jtubbs@charter.net 617-851-7960 | Yes |
| Members of community with architecture, engineering and/or construction experience | Peter L'Hommedieu | 112 Rumonoski Dr. Northbridge, MA 01534 | PLHommedieu@shawmut.com 617-719-2744 | Yes |
| Members of community with architecture, engineering and/or construction experience | Jeff Lundquist | 20 Hastings Dr. Whitinsville, MA 01588 | jlundquist@therichmondgroup.com 774-278-1592 | Yes |
| Members of community with architecture, engineering and/or construction experience | Andrew Chagnon | 85 Green Meadow Ct. Whitinsville, MA 01588 | achagnon@vertexeng.com 774-280-0163 | Yes |
| Parent Representative | Spencer Pollock | 328 Rebecca Rd. Whitinsville, MA 01588 | spencerpollock22@gmail.com 508-367-6123 | Yes |

Listed below is the past performance of the school building committee, the building committee (temporary or permanent), or any other committee responsible for oversight, management, or administration of the construction of public buildings and its individual members:

When the 2001 Northbridge High School was constructed, a school building committee had been in place, however, upon completion of that project, the committee was disbanded.

The Town of Northbridge has a standing Building, Planning and Construction Committee. The Building, Planning and Construction Committee is responsible for surveying the growth needs of the Town, the needs of the community and the physical condition of all municipal buildings and other facilities. The Committee shall meet from time to time with representatives of all municipal agencies to determine the need for additions or renovations to any existing buildings or for the

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construction of new buildings or any other facilities for the Town, and to determine the appropriate sites for such buildings and facilities. A representative of the Building, Planning, and Construction Committee is named above as a voting member of the School Building Committee.

After approval of this committee by the Authority, the Town of Northbridge will notify the Authority in writing within 20 calendar days of any changes to the membership or the duties of said committee.

Sincerely,


Alicia Cannon

Local Chief Executive Officer
Representative of Office Authorized by Law to Construct School Buildings

 9/5/19
Approved by MSBA Date

ⁱ Please attach the certification from the Office of the Inspector General demonstrating completion of the MCPPO Program.
ⁱⁱ "Administrator or Manager" refers to a Town Administrator, Town Manager, or to an equivalent position.

THE NEW **W. EDWARD BALMER SCHOOL**

WHITINSVILLE, MASSACHUSETTS



SCHOOL BUILDING COMMITTEE

OCTOBER 1, 2019



Massachusetts School Building Authority
Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities



AGENDA

- Oak Tree at SE property corner
- Building Refinements
- Project Construction Update



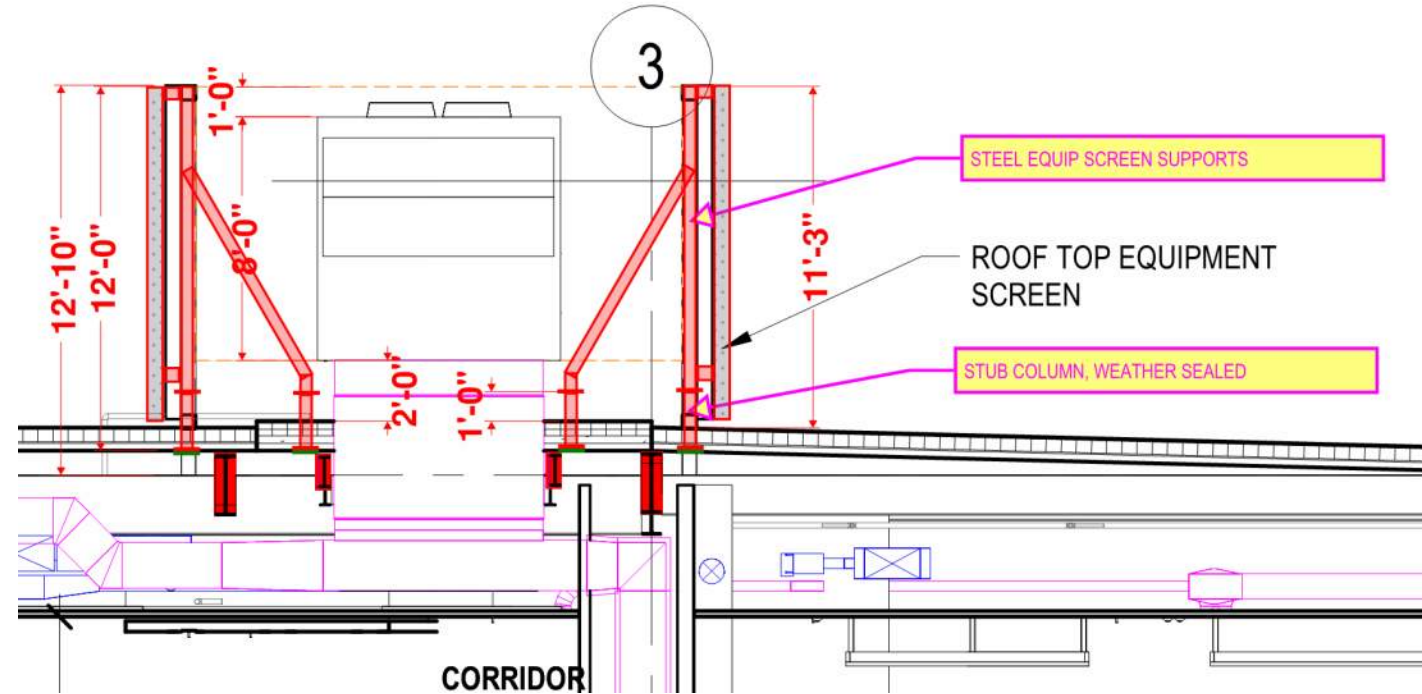
EXISTING OAK AT SE CORNER



ROOFTOP MECHANICAL SCREENS

Emailed with Acoustical Consultant:

- Study assumed mech units not running at full power (noise) at night – “diversity” concept
- Units modeled at 44dB at property line – threshold is 40dB
- Consultant is “very sure” the full acoustically-absorptive screens will be needed on all rooftop units



CONSTRUCTION UPDATE



View of Underground Detention Basin #2
– under U-8 soccer fields



CONSTRUCTION UPDATE



Connection of water line in Crescent Street



CONSTRUCTION UPDATE

Retaining Wall #2 (east) materials on site



CONSTRUCTION UPDATE



Storm drainage lines
continue to be installed



CONSTRUCTION UPDATE



Filling operation within building footprint continues



CONSTRUCTION UPDATE



Filling operation within building footprint continues



QUESTION AND ANSWER

