

PROJECT MINUTES

Project: New W. Edward Balmer Elementary School Project No.: 17020 Prepared by: Joel Seeley Meeting Date: 4/2/19 School Building Committee Meeting Meeting No: Re: 41 Location: High School Media Center Time: 6:30pm

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
✓	Jill Healy	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	

PROVIDENCE, RHODE ISLAND

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Item #	Action	Discussion
41.1	Record	Call to Order, 6:37 PM, meeting opened.
41.2	Record	A. Chagnon announced the meeting will be video and audio recorded with live broadcast and future re-broadcast.
41.3	Record	A. Chagnon introduced A. McKinstry as the interim Superintendent of Schools and SBC member.
41.4	Record	Warrant No. 24 was reviewed. A motion was made by M. LeBrasseur and seconded by P. Bedigian to approve Warrant No. 24. No discussion, motion passed unanimous.
41.5	Record	J. Kent distributed and reviewed the Price Proposal for Preconstruction Survey of surrounding abutter properties to be performed prior to construction commencement in the amount of \$5,200, attached.
		Committee Discussion:
		 A. Chagnon asked if the certified notifications would be addressed separately? J. Seeley indicated yes, if needed.
		A motion was made by P. Bedigian and seconded by J. Lundquist to authorize FBI to proceed with the Preconstruction Survey. No discussion, motion passed unanimous.
41.6	Record	J. Seeley distributed and reviewed the updated draft 60% Construction Documents Meetings and Agenda Schedule, attached. M. LeBrasseur indicated the School Committee has set aside May 6, 7 and 8 for superintendent interviews, which may conflict with the May 8 SBC meeting, he will keep the Committee informed as the date gets closer.
41.7	M. DiSalvo	M. DiSalvo to work with the school department to define, in the specifications, sufficient training requirements for the school department's maintenance staff, including videotaping.
41.8	T. Hengelsberg	T. Hengelsberg to confirm that the turning radii for all parking lot exits are sufficient to not force the turning car into the oncoming lane of traffic.
41.9	T. Hengelsberg	T. Hengelsberg to provide detailed cut and fill analysis, by material, with the Design Development Pricing Set for Committee review.
41.10	T. Hengelsberg	T. Hengelsberg to provide existing top soil characterization for gradient and nutrient enhancements for Committee review.
41.11	T. Hengelsberg	T. Hengelsberg to refine the sidewalk layouts for a future Committee meeting.
41.12	T. Hengelsberg	T. Hengelsberg to provide options to the routing of the 36 inch storm line for review, such as reducing the depth of the line, installing a temporary line until Phase 2, routing around the building, use of concrete piping.
41.13	T. Hengelsberg	T. Hengelsberg to provide options to the Cape Cod Berm.
41.14	T. Hengelsberg	T. Hengelsberg to review if the 2-Hour Fire Wall and Horizontal Sliding Fire Door can be eliminated if fire-proofing was added to the Wing A-B and Wing C structure, in addition to the areas around the Egress Stairs.
41.15	T. Hengelsberg	T. Hengelsberg to provide the STC for the Stage Operable Wall with a comparison against a CMU wall.

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Item #	Action	Discussion						
41.16	T. Hengelsberg	T. Hengelsberg to provide a written code interpretation for their Code Consultant that the three-story shaft is not an Atrium.						
41.17	J. Seeley	J. Seeley to coordinate with K. Ross, T. Hengelsberg and J. Mauer to schedule meetings with New Incoming Parents, Teachers, and the Surrounding Neighborhood, to review the traffic and site conditions during construction.						
41.18	R. Maglione	T. Hengelsberg distributed and reviewed a Listing of Proprietary Specifications, attached, for Committee vote to approve and recommend approval by the School Committee, whose vote to approve is required to be submitted to the MSBA.						
		Committee Discussion:						
		 M. LeBrasseur asked why is the School Committee required to approve Proprietary Specifications? J. Seeley indicated that the MSBA requires a vote be taken by an elected body of the District, such as the Selectmen or School Committee, for proprietary 						
		specifications that are included in the project.						
		 M. LeBrasseur asked if the listed proprietary specifications are what is typically found in other school projects? L.Dore indicated yes and that this list is smaller compared to other recent D&W school projects. 						
		 J. Lundquist asked if some of the proprietary specifications, such as Building Energy Management System, can be listed as a bid alternate to control the bid cost? L. Dore indicated no, as the District will have taken a public vote that the proprietary specification was required, making it an alternate would go against that vote. 						
		4. M. LeBrasseur asked if the MSBA would disapprove any of the proprietary specifications? J. Seeley indicated no, submission of the vote to MSBA is required to ensure that local communities have decided to include proprietary specifications in an open public process.						
		 Section 230010 Building Energy Management System and Section 281000 Integrated Electronic Security System are under review by the District to determine if they are to be proprietary and R. Maglione will provide direction at the next Committee meeting. 						
		The Committee will defer the vote until Section 230010 Building Energy Management System and Section 281000 Integrated Electronic Security System are resolved.						
41.19	T. Hengelsberg	T. Hengelsberg distributed and reviewed the Response to Owner's Comments to the Design Development documents, attached. The Value Engineering related comments were reviewed under the Value Engineering discussion.						
		Committee Discussion:						
		T. Hengelsberg distributed the requested Site Lighting Catalog Cut Sheets, attached.						

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Item #	Action	Discussion
		 T. Hengelsberg to review options to provide a divider between the bathroom sinks in the upper grades to separate the boys and girls and present to the Committee.
		 T. Hengelsberg to review options to reduce the extent or type of glazing in Stair 5 and present to the Committee.
41.20	L. Dore	T. Hengelsberg distributed and reviewed a Listing of Value Engineering Items, attached.
		Committee Discussion:
		 L. Dore to confirm if the VE cost for the "SecureShade" is the net add, after factoring in the deletion of the manual shade at each location.
		2. L. Dore to confirm the status of the "SecureShade" sample installation.
		3. L. Dore to confirm if a Digital Site Sign is allowed by Zoning Bylaw.
		 L. Dore to develop options to incrementally reduce the extent of chain link fencing.
		5. L. Dore to develop options for a smaller capacity roof davit.
		 L. Dore to obtain feedback from other D&W school projects regarding their experience with the "Won-Door" horizontal sliding fire door.
		7. L. Dore to develop large scale exterior images to convey the effect of Utility Brick versus Standard Modular Brick and Split Face CMU versus Cast Stone Base.
		A motion was made by J. Lundquist and seconded by M. LeBrasseur to incorporate any accepted Value Engineering items into the 60% Construction Documents and submit the Design Development documents as-is to the MSBA. No discussion, motion passed unanimous.
		A motion was made by J. Lundquist and seconded by M. LeBrasseur to approve Value Engineering items C01, L01, L02, A02, 38 and P01. No discussion, motion passed unanimous.
		A motion was made by J. Lundquist and seconded by P. L'Hommedieu to approve Value Engineering items A03, A04 and A05. No discussion, motion passed unanimous.
		D&W requested that the Committee decide Value Engineering items A01 and 17 at the next Committee meeting in order to maintain document progress.
41.21	Record	A Motion was made by J. Lundquist and seconded by M. LeBrasseur to approve the Design Development Submittal and authorize submission to the MSBA. No discussion, motion passed unanimous.
41.22	Record	J. Seeley provided an overview of the process and timing for Trade Prequalification, GMP Amendment Approvals for the Early Site Package and the Early Concrete and Steel Package, and GMP Approval for the whole project.
		The Trade Prequalification Committee to be appointed at the next Committee meeting.
41.23	T. Hengelsberg J. Strazzulla	Site Permitting 1. J. Seeley distributed the updated Project Schedule, attached.

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Item #	Action	Discussion							
		Conservation Commission							
		1. The NOI application to be submitted on 4/3/19.							
		2. The Approved ORAD, recorded at the Registry of Deeds is attached.							
		Planning Board							
		1. The Site Plan Approval application to be submitted on 4/9/19.							
		2. CDM, the town's consultant, is performing the sewage capacity analysis study.							
		3. T. Hengelsberg to review the staff counts relative to the amount of staff members for each grade in SPED and paraprofessionals with K. Ross and J. Healy.							
		J. Strazzulla to review the parking requirements for weekend soccer with Youth Soccer.							
		 The Zoning Analysis is under review for determination on a waiver or variance process, the Zoning Bylaw Summary letter, dated 3/27/19 is attached. 							
41.24	Record	Committee Questions - none							
41.25	Record	Old or New Business							
		 M. LeBrasseur indicated the School Committee will be voting on the new School Name at their 4/23/19 meeting. 							
41.26	Record	Next SBC Meeting: 4/24/19 at 6:30 pm at the High School Media Center. The anticipated agenda items are reviewing the 60% Construction Document schedule and deliverables, design refinements and site permitting update.							
41.27	Record	A Motion was made by M. LeBrasseur and seconded by P. Bedigian to adjourn the meeting. No discussion, motion passed unanimous.							

Attachments: Agenda, Warrant No. 24, Price Proposal for Preconstruction Survey, updated draft 60% Construction Documents Meetings and Agenda Schedule, Listing of Proprietary Specifications, Response to Owner's Comments to the Design Development documents, Site Lighting Catalog Cut Sheets, Listing of Value Engineering Items, Project Schedule, Approved ORAD, Zoning Bylaw Summary letter, dated 3/27/19, 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

Distribution:

Attendees, (MF)

 Project No.:
 17020

 Meeting Date:
 4/2/2019

 Meeting No:
 41

Time: . 6:30pm

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	Joseph Strazzulla	jstrazzulla@nps.org	Chairman, School Building Committee
www	Melissa Walker	mwalker@nps.org	School Business Manager, MCPPO
	Alicia Cannon	Cannonhome0927@gmail.com	Member, Board of Selectmen, CEO
mange	Michael LeBrasseur	mlebrasseur@nps.org	Chairman, School Committee
Paul Bedigion	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
Modern	Peter L'Hommedieu	PLHommedieu@shawmut.com	Member of community with architecture engineering and/or construction experience
MINI	Jeff Lundquist	jlundquist@therichmondgroup.com	Member of community with architecture engineering and/or construction experience
MA	Andrew Chagnon	achagnon@vertexeng.com	Member of community with architecture engineering and/or construction experience
V "	Spencer Pollock	spencerpollock22@gmail.com	Parent Representative
	Adam Gaudette	agaudette@northbridgemass.org	Town Manager
	Dr. Catherine Stickney	cstickney@nps.org	Superintendent of Schools, NPS,
ing Mikasty	Amy McKinstry	amckinstry@nps.org	Director of Curriculum, NPS
Self And E	Richard Maglione	rmaglione@nps.org	Building Maintenance Local Official
arlered Coss	Karlene Ross	kross@nps.org	Principal, W. Edward Balmer Elementary School
Jul Figali	lill Healy االد	jhealy@nps.org	Principal, Northbridge Elementary Scho
1 And Kall	Gregory Rosenthal	grosenthal@nps.org	Director of Pupil Personnel Services
The	Lee P. Dore	Ipdore@DoreandWhittier.com	Dore & Whittier Architects
TIS IND	Thomas Hengelsberg	thengelsberg@DoreandWhittier.com	Dore & Whittier Architects
10	David Fontaine, Sr.	DFontaine@fontainebros.com	Fontaine Bros., Inc.
	David Fontaine, Jr.	dir@fontainebros.com	Fontaine Bros., Inc.
1	Mark Abdella	mabdella@fontainebros.com	Fontaine Bros., Inc.
h Mr	Jim Mauer	Jmauer@fontainebros.com	Fontaine Bros., Inc.
Mark	Joel Seeley	jseeley@smma.com	SMMA

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617.547.5400



Agenda

Project: W. Edward Balmer Elementary School Feasibility Study

Re: School Building Committee Meeting

Meeting Location: High School Media Center

427 Linwood Avenue, Whitinsville, MA

17020

4/2/2019

6:30 PM

41

Project No.:

Meeting Date:

Meeting Time:

Meeting No.

Prepared by: Joel G. Seeley

Distribution: Committee Members (MF)

- 1. Call to Order
- 2. Public Comments
- 3. Approval of Minutes
- 4. Approval of Invoices and Commitments
 - Preconstruction Survey
- 5. Review Proprietary Materials
- 6. Review Response to Owner's Comments
- 7. Review Value Engineering Pricing
- 8. Review Design Development Estimates
- 9. Vote to Submit Design Development Package to MSBA
- 10. Discuss Early Package Procurement Process
 - Trade Contractor Pregualification
 - GMP Amendments
 - Full GMP
- 11. Site Permitting Update
 - Conservation Commission
 - Planning Board
- 12. New or Old Business
- 13. Committee Questions
- 14. Next Meeting: April 24, 2019
- 15. Adjourn

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

March 15, 2019 - Updated April 2, 2019

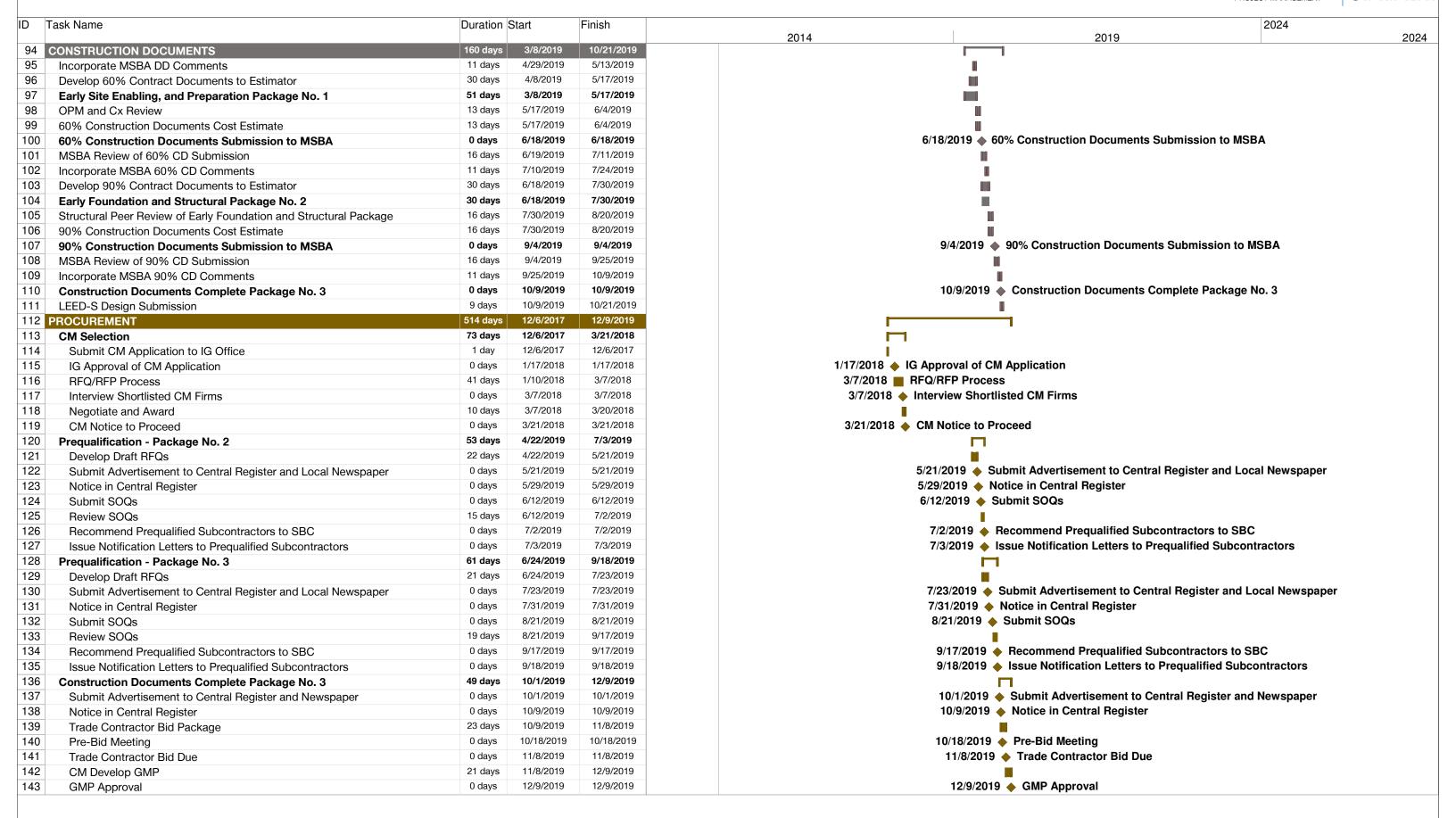
	March 15, 2019 - Opuateu April 2, 2019
DATE	AGENDA
60% Construction Docu	iments Phase
April 17, 2019	CONSERVATION COMMISSION HEARING NO. 1 - DATE TBD
April 23, 2019	PLANNING BOARD HEARING NO. 1 - DATE TBD
April 24, 2019	BUILDING COMMITTEE MEETING - WEDNESDAY
	Review Overall Construction Document Phase Schedule
	Review 60% Construction Document Schedule
	Review Design Refinements
	Site Permitting Update
May 1, 2019	CONSERVATION COMMISSION HEARING NO. 2 - DATE TBD
May 8, 2019	BUILDING COMMITTEE MEETING - WEDNESDAY
	Review Design Refinements
	Review MSBA Design Development Submission Comments
	Review Construction Logistics Plan
	Site Permitting Update
May 14, 2019	PLANNING BOARD HEARING NO. 2 - DATE TBD
May 15, 2019	CONSERVATION COMMISSION ISSUE ORDER - DATE TBD
May 22, 2019	BUILDING COMMITTEE MEETING - WEDNESDAY
	Review Design Refinements
	Review LEED Scorecard
	Review Construction Logistics Plan
	Site Permitting Update
May 28, 2019	PLANNING BOARD ISSUE DECISION - DATE TBD
June 12, 2019	BUILDING COMMITTEE MEETING (WEDNESDAY)
	Award Early Site Package
	Review Reconciled 60% Construction Documents Cost Estimate
	Decide Value Engineering Items
	Vote to Submit 60% Construction Documents Package to MSBA
-	
June 18, 2019	SUBMIT 60% CONSTRUCTION DOCUMENTS PACKAGE TO MSBA
	ADDITIONAL MEETINGS TO BE SCHEDULED



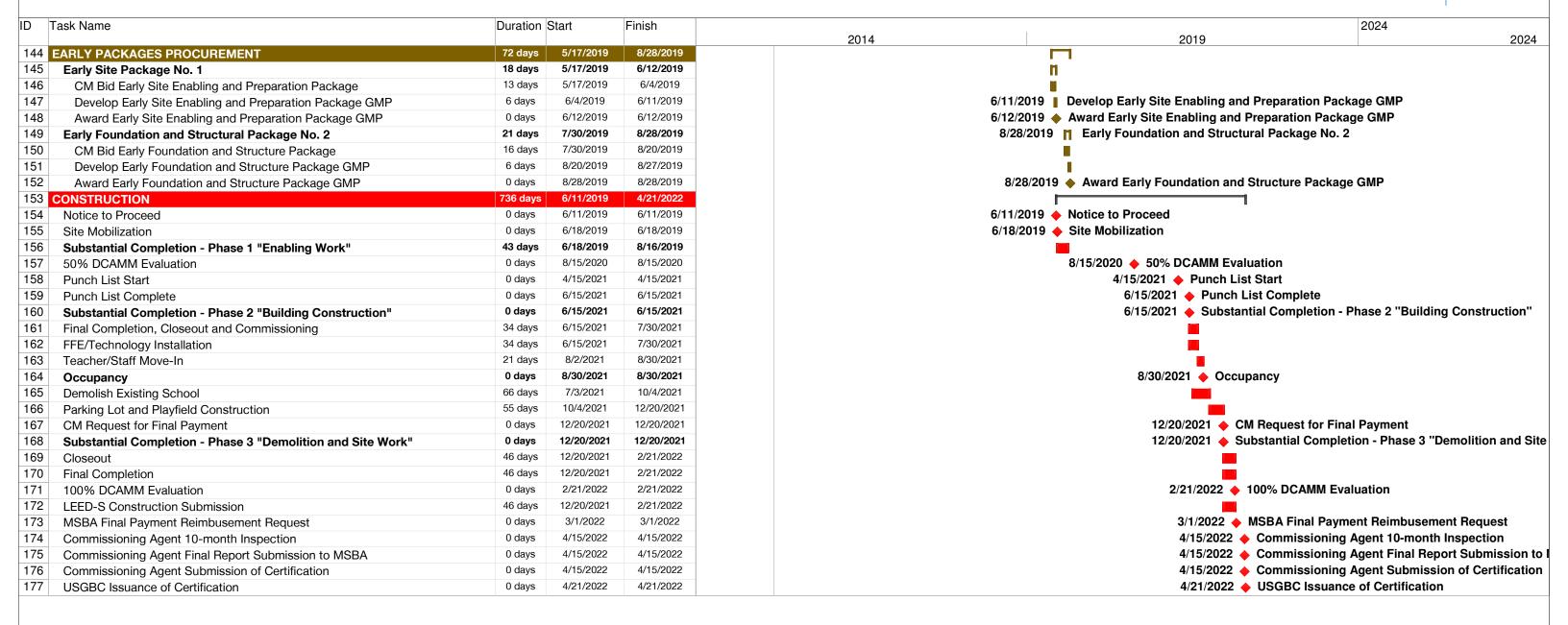


	Task Name	Duration S	Start	Finish
1	MSBA PREREQUISITES	431 days	3/9/2015	11/9/2016
4	RETAIN OPM	45 days	1/30/2017	4/3/2017
10	RETAIN DESIGNER	80 days	3/8/2017	6/27/2017
20	FEASIBILITY STUDY (FS)	161 days	6/27/2017	2/14/2018
35	SCHEMATIC DESIGN (SD)	86 days	2/14/2018	6/13/2018
42	PROJECT SCOPE AND BUDGET	139 days	5/23/2018	12/6/2018
50	DESIGN DEVELOPMENT	119 days	11/8/2018	4/26/2019
51	Develop Design Development Documents to Estimator	74 days	11/8/2018	2/22/2019
52	LEED-S Registration	0 days	1/24/2019	1/24/2019
53	Design Development Cost Estimate	13 days	2/22/2019	3/12/2019
54	Value Engineering	16 days	3/12/2019	4/2/2019
55	Design Development Submission for OPM and Cx Review	0 days	2/22/2019	2/22/2019
56	OPM and Cx Review	13 days	2/22/2019	3/12/2019
57	Design Development Submission to MSBA	0 days	4/5/2019	4/5/2019
58	MSBA Comments	16 days	4/5/2019	4/26/2019
		170 days	11/7/2018	7/8/2019
59	SITE PERMITTING			
60	Northbridge Conservation Commission - ANRAD	85 days	11/7/2018	3/8/2019
61	Prepare Application Documents	6 days	11/7/2018	11/14/2018
62	File Application	0 days	11/14/2018	11/14/2018
63	Hearings	15 days	11/14/2018	12/5/2018
64	Conservation Commission Decision	48 days	12/5/2018	2/12/2019
65	Appeal Period	10 days	2/12/2019	2/25/2019
66	File at Registry	10 days	2/25/2019	3/8/2019
67	Northbridge Conservation Commission - NOI	151 days	11/7/2018	6/10/2019
68	Prepare Application Documents	103 days	11/7/2018	4/3/2019
69	File Application	0 days	4/3/2019	4/3/2019
70	Hearing No. 1	0 days	4/17/2019	4/17/2019
71	Hearing No. 2	0 days	5/1/2019	5/1/2019
72	Conservation Commission Issue Order of Conditions	0 days	5/15/2019	5/15/2019
73	Appeal Period	10 days	5/15/2019	5/28/2019
74		10 days	5/28/2019	6/10/2019
	File at Registry	141 days	11/7/2018	5/28/2019
75	Northbridge Planning Board - Site Plan Approval	-		
76	Prepare Application Documents	107 days	11/7/2018	4/9/2019
//	File Application	0 days	4/9/2019	4/9/2019
78	Hearing No. 1	0 days	4/23/2019	4/23/2019
79	Hearing No. 2	0 days	5/14/2019	5/14/2019
80	Planning Board Issues Site Plan Approval	0 days	5/28/2019	5/28/2019
81	Northbridge Planning Board Special Permit - Parking and Loading Waiver	170 days	11/7/2018	7/8/2019
82	Prepare Application Documents	107 days	11/7/2018	4/9/2019
83	File Application	0 days	4/9/2019	4/9/2019
84	Hearing No. 1	0 days	4/23/2019	4/23/2019
85	Hearing No. 2	0 days	5/14/2019	5/14/2019
86	Planning Board Decision	0 days	5/28/2019	5/28/2019
87	Appeal Period	20 days	5/28/2019	6/24/2019
88	File at Registry	10 days	6/24/2019	7/8/2019
89	BUILDING PERMITTING	124 days	5/17/2019	11/8/2019
90	Site Enabling and Preparation Package Permit	23 days	5/17/2019	6/18/2019
	Foundation Permit	23 days 24 days	7/30/2019	8/30/2019
91				8/30/2019
92	Structure Permit	24 days	7/30/2019	
93	Building Permit	23 days	10/9/2019	11/8/2019









February 28, 2019

Mr. James Sheehan, Building Inspector Town of Northbridge Aldrich School Town Hall Annex 14 Hill Street Whitinsville, MA 01588 DORE & WHITTIER ARCHITECTS, INC.

RE: W. Edward Balmer Elementary School – Zoning Bylaws Analysis

Dear Jim,

Following is our analysis of the Northbridge Zoning Bylaws as they apply to the project to construct a new Grades PK-5 elementary school on the site of the existing Balmer school, which will also involve the Vail Field parcel as part of the project. As requested, we are showing where the project meets the requirements of the bylaws, where it does not, and the mitigating factors that will demonstrate in our professional opinion, that there will be no substantial detriment to the public good or undue burdens placed on the town if it allows the non-conforming aspects of the project to be approved by waiver or variance. This letter is not an exhaustive analysis; only portions of the Zoning Bylaw that have direct bearing on the proposed development are included here.

I. LAND USE, VAIL FIELD

The Town Legal Counsel, KP Law, through its deed research, has determined that Vail Field is not subject to Article 97 (Change of Use of Public Parklands) regulations (letter attached). Furthermore, all existing athletic facilities are proposed to be replaced in-kind, in a new configuration, as part of the proposed site plan.

II. ZONING BYLAWS ANALYSIS

173-4 ZONING MAP:

The project site sits partially in two zones. The south portion (Crescent Street frontage) including Vail Field and some portion of the school parcel sits in zone R-5. The rear portion which includes the balance of the school parcel sits in zone R-2. The majority of the new school is located in the R-2 zone, which is used below for side yard setback calculations. The site is not part of any Overlay District, and is not located in a Floodway or Flood Plain district.



Figure 1 - Northbridge Zoning Map (partial) - May 2016, with property identified

ARCHITECTS PROJECT MANAGERS

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

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955 Mr. James Sheehan, Building Inspector BALMER – Zoning Analysis February 28, 2019 Page 2 of 3

173-12 USE REGULATIONS:

Community Public Educational Facilities are a permitted use in Zones R-2 and R-5. (Table 173-12, Att. 2)

173-13.2 EROSION CONTROL:

The project will be subject to MA law and guidelines for construction erosion control, and an Erosion Control Plan will be submitted to the Town as part of the construction permit process. (Table 173-18.2. C and D)

173-20 HEIGHT AND BULK REGULATIONS:

TABLE 1: Dimensional Requirements per Zoning Bylaws (173-20 + 173 - Att. 1)

TABLE 1. Billionsional Regulieries per Zerling Bylaws (170 Zer 170 Titl. 1)								
	Min. Lot Area (sq. ft.)	Min. Contiguous Frontage	Min. Front Yard Setback	Min. Side Yard Setback	Min. Rear Yard Setback	Max. Height in Stories	Max. Height in Feet*	Max. Total Lot Coverage (%)
Required R-2	20,000	100'	40'	10'	40'	2.5	35'	20%
Required R-5	5,000	60'	15'	8'	20'	3	45'	50%
Existing**	1,310,285	730'	30'	50'	310'	2	23'-6""	4 %
Proposed New Project - Actual Measurements (Re. R-2 zone)	1,310,285	730'	565.64'	384.7' west 42.65' east*	307.15'	3 *	44'-4" *	5.65 %

[&]quot;"Any maximum height permitted shall not apply to a community facility provided that the side and rear yards or setbacks required in the district for the highest permitted principal structure shall be increased two feet in width for each foot by which the height of such structure exceeds the height permitted in the district." See calculation below.

173-20 SIDE YARD SETBACK CALCULATION:

Exception for Community Facilities (Sec 173-20: Table Notes)

Height 43'-10" to cornice; nominally 44'-4" to average grade.

 R-2 Allowable Height =
 35'

 Proposed Height =
 44'-4"
 (44.33')

 Height Delta =
 9.33'

 Setback multiplier =
 2.0

 Added Setback
 18.66'

 Base Side Setback
 10'

 Required Side Setback
 28.66'

Actual Side yard Setback 42.65' at northeast corner

173-27 OFF-STREET PARKING AND LOADING REQUIREMENTS:

For reference, the existing structure has 96 paved, striped, legitimate parking spaces, and two loading spaces adjacent to the loading dock.

<u>Parking:</u>

Zoning Requirement: Community Facilities - Schools: 1 space per 300 NSF (table in Sec 173-27.C)

Building NSF = 111,568 NSF

Zoning Requires 372 parking spaces

Desired Parking Program per District Working Group:
156 Staff + 24 Visitors
180 spaces
Additional Event Parking
89 spaces

Total Parking on Site Plan 246 spaces
Seeking Variance or Waiver for 126 spaces

We are submitting an "Overflow Parking Plan" that will yield an additional 54 spaces (drawing attached). This brings the total on-site parking capacity to 300 spaces.

^{**} Existing calculations are based on property ID: 7-138 (parcel the school building sits within.)

Mr. James Sheehan, Building Inspector BALMER – Zoning Analysis February 28, 2019 Page 3 of 4

Loading Areas:

Zoning requires 1 per 7,500 NSF + 1 per 15,000 NSF in excess (table 2 in Sec.173-27.C)

Building NSF = 111,568 NSF

Zoning requires: 8 loading spaces
Project has: 2 loading spaces
Seeking Variance or Waiver for 6 loading spaces

Per the request of the Technical Review Committee at our 1/23/19 meeting, we are submitting a verification of the school's parking needs as well as a Parking and Event Analysis which shows that there are no likely scenarios that will exceed the total onsite parking capacity. Most scenarios will easily be accommodated with the proposed 246 spaces, and the few high-capacity events will be accommodated using the Overflow plan for 300 spaces. (Documents attached)

Additional Zoning Requirements:

Proposed Parking and Loading Spaces are all on the same lot as the building served. (Sec.173-27.D.1, .2)

Proposed spaces are 9' x 18' with 24' drive aisle in lot configurations. Parallel parking spaces in the Overflow Plan are 9' x 22' with a minimum 12' drive lane accessing them. (Sec.173-27.D.3)

The proposed number of driveways accessing the public way (Crescent Street) is limited to two. (Sec.173-27.D.4)

Proposed two-way drive ways are 22 feet wide, two lanes of 11 feet. (Sec.173-27.D.5)

Loading spaces shall be 600 SF for the first 7,500 NSF and 500 SF for each additional 15,000 NSF. There are two spaces of 600 SF. The project has two proposed loading spaces of 900 SF that will accommodate a semi-trailer or straight truck. (Sec.173-27.D.9)

Handicapped parking spaces are provided in accordance with MAAB and ADA requirements. There are 8 H/C spaces on the site, where a minimum of 7 are required. (Sec.173-27.D.12; MAAB 521 CMR 23.2.1)

The balance of regulations 173-27.D 1-13 have been incorporated in the site plans.

The proposed plan includes landscaping plant materials (primarily trees to screen and shade the parking lot areas. (173-27.F.3 – (a)-(c))

173-28 AREA, CONSTRUCTION AND LIGHTING STANDARDS

The west parking lot is approximately 100 feet and 20-30 feet down-slope from neighbors to the west. Parking lot islands feature trees which will screen the parking from views from above. It is our interpretation that solid screen walls are not required in this condition. The east parking is screened by both solid 6' stockade fencing at the property line, and dense evergreen shrubbery between the fence and the parking lots. Other provisions of this section are being complied with (D - lighting) or are not applicable (B, C). (173-28.A-D)

Please contact me if you have any question on the above material, and we look forward to continuing the permitting process for this project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects ■ Project Managers

Tom Hengelsberg, AIA Project Manager

Attachments cc: File



August 31, 2017

101 Arch Street, Boston, MA 02110 Tel: 617.556.0007 | Fax: 617.654.1735 www.k-plaw.com

David J. Doneski ddoneski@k-plaw.com

Northbridge School Building Committee Town Hall 7 Main Street Whitinsville, MA 01588

Re: W. Edward Balmer Elementary School, Executive Office of Energy and Environmental Affairs Article 97 Land Disposition Policy

Dear Members of the School Building Committee:

I have reviewed the identified deed for the Balmer School site – deed of Whitin Machine Works to Town of Northbridge dated April 24, 1963 and recorded with the Worcester Registry of Deeds in Book 4369, Page 342. The deed conveyed 4 parcels to the Town. Parcel 1 is land on the northwesterly side of Crescent Street and the northeasterly side of North Main Street, said to contain 9.04 acres and Parcel 2 is a parcel northwesterly of Parcel 1 said to contain 21.04 acres. The copy of the deed provided by the Assessors' office includes the annotation that the land conveyed encompasses Assessors' Map 7, parcels 138 and 141. According to the Assessors' property card record for the Balmer School property, the school site has an address of 11 Crescent Street, is shown as parcel 138 on Assessors' Map 7, and contains 30.04 acres. (Assessors' Map 7 shows parcel 138 as containing 21.04 acres, with the designation "Balmer School" and parcel 141 as containing 9.04 acres.) Accordingly, it is my understanding that the school site is Parcel 1 and Parcel 2 described in the deed. (Parcel 3 is described as land on the northerly side of Plummer Road a/k/a Church Street, between Providence Road and Quaker Street, consisting of 2.51 acres; and Parcel 4 is described as land on the westerly side of Linwood Avenue, consisting of 30,014 square feet.)

The deed to the Balmer School site includes no statement of use limitations or restriction on Town use of the land. Therefore, it is my opinion that the deed does not impose a limitation that would make the site subject to Article 97 of the Amendments to the Massachusetts Constitution, which includes a prohibition against the sale or change in use of public parkland without special approval by a two-thirds roll call vote of the Legislature.

Article 97 can apply when land acquired without any use restriction is subsequently subjected to a restriction by a document recorded with the Registry of Deeds. See Smith v. City of Westfield, 90 Mass. App. Ct. 80, 82 (2016). It is my understanding that the Town is not aware of any such recorded restriction or similar action for the Balmer School site. My on-line search of Worcester Registry of Deeds records, by street – Crescent Street, did not reveal any subsequent recorded restriction.



Northbridge School Building Committee August 31, 2017 Page 2

You have also informed me that a portion of the Balmer School site contains a recreational field area, known as Vail Field. In that regard, I reviewed certain votes taken at the March 12, 1963 Annual Town Meeting regarding the Town's acceptance of land from Whitin Machine Works – one parcel of approximately 6.22 acres "known as Vail Field . . . to be used for recreational purposes only" (Article 13) and one parcel of approximately 23.25 acres "adjacent to Vail Field . . . to be used as a school site only" (Article 16). Although the stated acreage for these two parcels is different from the parcel sizes reflected in the deed referenced above and the parcel sizes being carried on the Northbridge Assessors' records, it is my understanding that the votes refer to the parcels conveyed by that deed. The Vail Field designation for the smaller parcel appears to pre-exist any transfer to the Town from Whitin Machine Works. In any event, though, creation of a restriction for purposes of Article 97 of the Amendments to the Massachusetts Constitution requires an instrument recorded at the Registry of Deeds. See Mahajan v. Department. of Environmental Protection, 464 Mass. 604, 615 – 616 (2013), citing Selectmen of Hanson v. Lindsay, 444 Mass. 502 (2005). No such instrument has been identified. Accordingly, the existence of these votes, with no restrictive instrument recorded at the Registry of Deeds, does not alter the opinion that the Balmer School site is not subject to Article 97.

In accordance with the foregoing, and in response to your further question of August 28, 2017, it is my view that the so-called Vail Field portion of the site may be used for non-recreational purposes and that the other portions of the site may be used for recreational purposes.

Please contact me if you have any further questions on this matter.

Very truly yours,

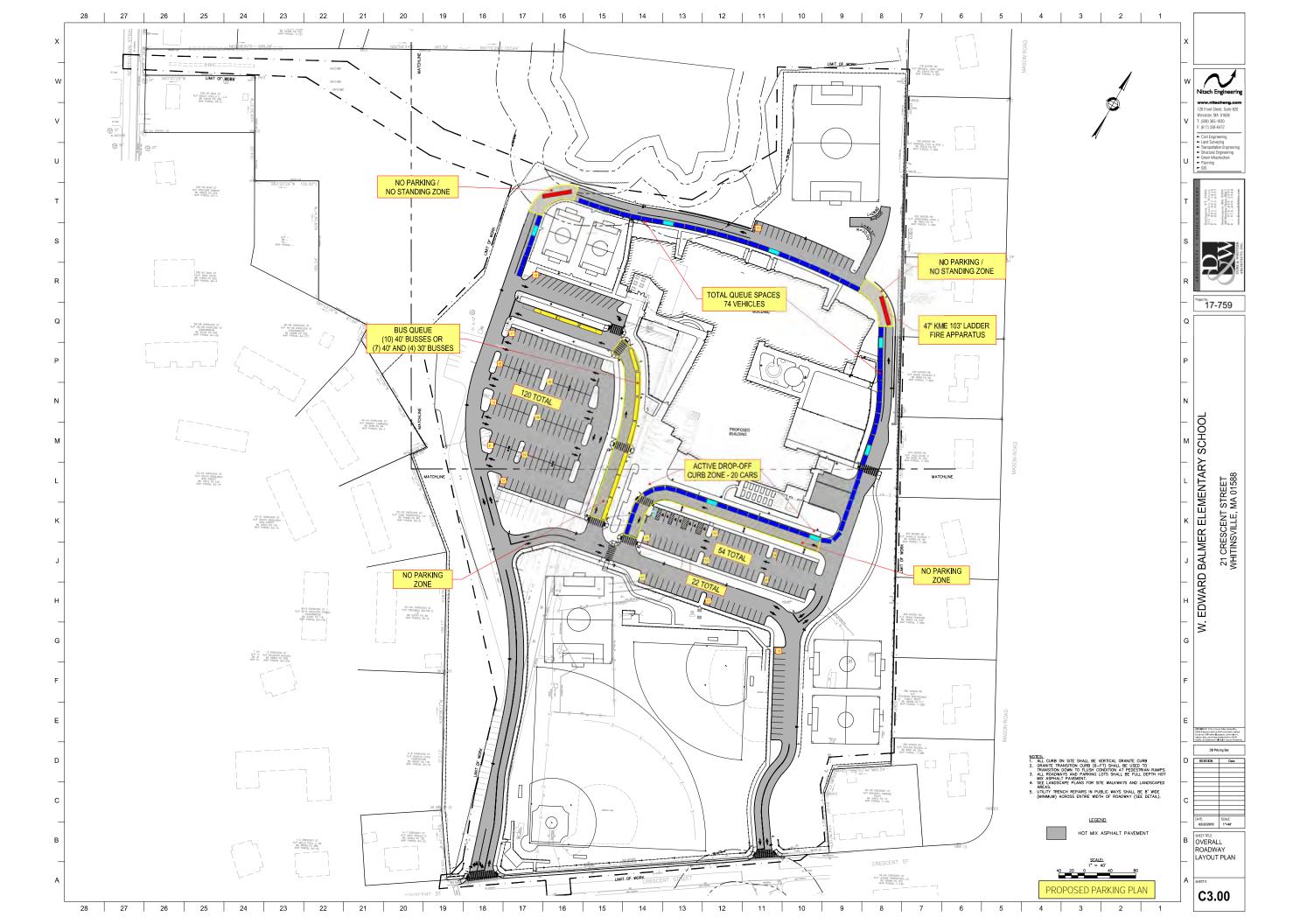
David J. Doneski

DJD/man

cc.

Board of Selectmen

589268 v.2/NBRI/0001



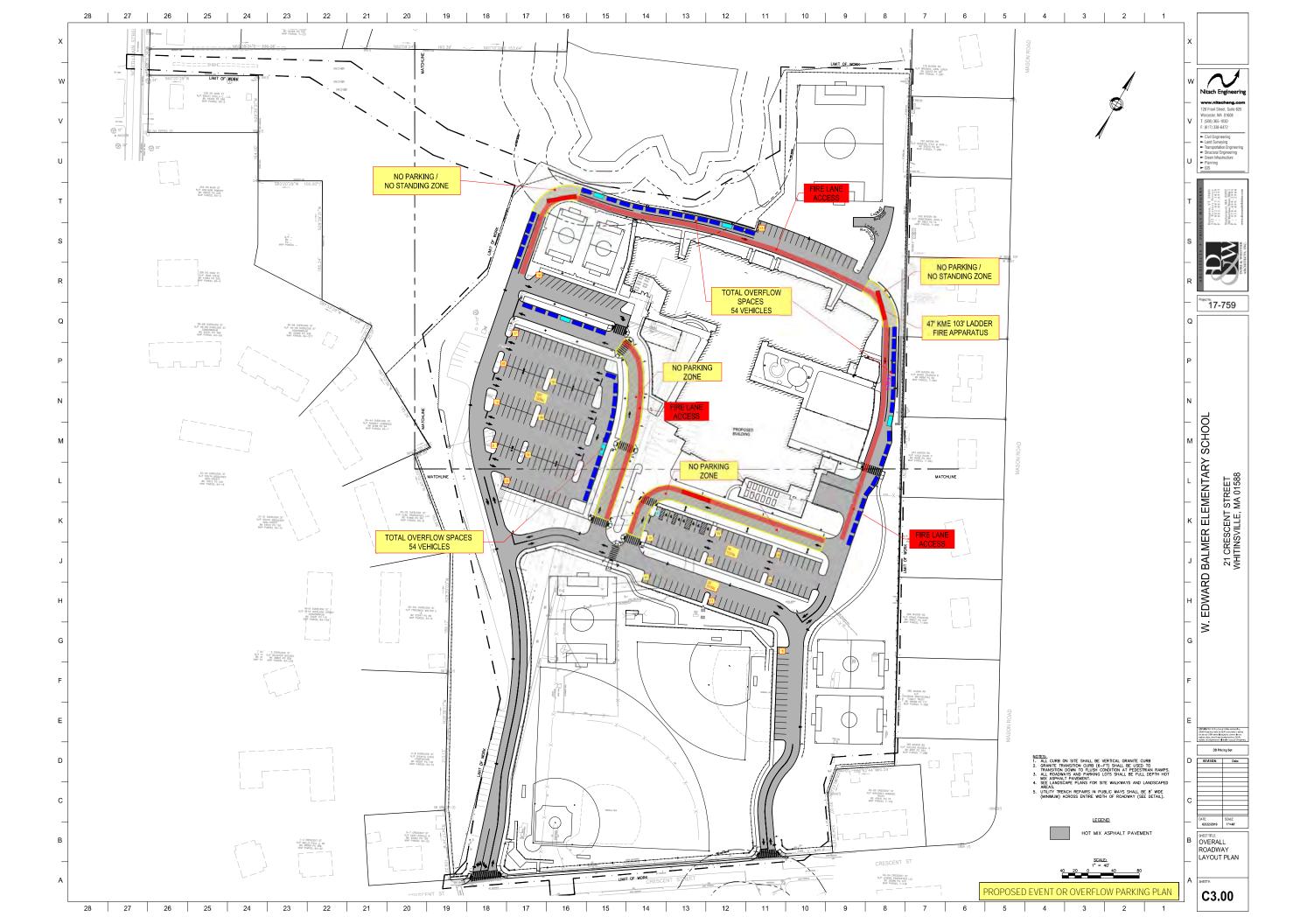


TABLE 1 - STAFF COUNT

Verified with School Administration 1/31/19

SPACE	QUAN	ADULTS BASED IN EACH	FTE	STUDENTS IN EACH ¹	TOTAL STUDENTS	Remarks
PK CRS	4	1	4	18	72	
PK-K SPED	1	1	1	12	12	
K CRS	9	1	9	18	162	
GRADE 1-5 CRS	40	1	40	23	920	
1-2 SPED	2	3	6	12	24	
3-5 SPED	2	3	6	12	24	
RESOURCE ROOM	3	1	3			STUDENTS COUNTED ABOVE
STUDENT SERVICES	2	26	52			PROFESSIONALS WORK IN CLASSROOMS ABOVE
ART	2	1	2			STUDENTS COUNTED ABOVE
MUSIC	2	1	2			STUDENTS COUNTED ABOVE
GYMNASIUM	1	2	2			STUDENTS COUNTED ABOVE
LIBRARY	1	2	2			STUDENTS COUNTED ABOVE
MAKER	1	1	1			STUDENTS COUNTED ABOVE
OT/PT	1	2	2			STUDENTS COUNTED ABOVE
ADMIN + NURSE			16			INCL PRINCIPAL OFFICES ON LEVEL 2+3
TITLE 1 OFFICE			1			
KITCHEN			5			
MAINTENANCE STAFF			2			
SUBTOTAL - FTE			156		1214	
VISITORS						
ITINERANT PROFESSIONALS			2			Not full time - in building for no more than 2 hours
VOLUNTEERS			4			Sporadic, usually present for most of the school day
VISITORS			18			3 meetings a day x 6 people, could be concurrent
SUBTOTAL			24			
TOTALS			180		1214	

¹ Reflects maximum enrollment, not actual present enrollment.

TABLE 2 - PARKING AND EVENT ANALYSIS

Proposed Parking Spaces 246 + Overflow Spaces 54 = 300 Total Spaces Onsite Maximum

Table shows the maximum number of cars parked for any given time period/ scenario. Cells highlighted yellow indicate scenario totals above the number of conventional spaces. None of the scenarios exceed the total onsite maximum number of parking spaces, including overflow spaces.

TIME OF DAY	EVENT/ CONDITION	FREQUENCY	PARKING (LONG TERM)	PARKING (S/T VISITOR <2 hours)	QUEUE SPACE	LOADING SPACE (Semi Truck)	REMARKS
SCHOOL DAY							
6:00 AM – 7:45 AM	Supply Deliveries	Daily M-F				2	Various deliveries throughout week, rarely more than one truck at a time.
6:00 AM – 2:00 PM	Kitchen & Maint. staff in building		7				
6:30 AM – 4:00 PM	Teachers and Staff in Building	Daily M-F	156	24			
6:45 AM – 7:55 AM	Early Care Drop-off	Daily M-F		10			Indicates expected max cars at any one time.
7:45 AM – 8:00 AM	Pre-K Parent Park & Drop-Off Arrival	Daily M-F		16			Park & Drop Lot assumes 16 live spaces with 2-3 minute use; additional vehicles can use signed north row of west parking lot
8:00 AM – 8:15 AM	Parent Drop-Off & Arrival	Daily M-F			74		Assume live spaces in a moving line; 74 vehicles at any one time
8:00 AM – 2:30 PM	Parent Volunteers	Daily M-F	4				
8:00 AM – 4:00 PM	Itinerant Staff in Building	Daily M-F		2			
8:00 AM – 4:00 PM	Long Term Visitors	Daily M-F		18			
2:45 PM – 3:15 PM	Dismissal and Parent Pick-up	Daily M-F			74		Some parents may queue earlier than this; 74 vehicles at any one time, additional early cars may park in ~89 vacant site spaces. Dismissals will be staged to even out the peak flow of traffic.
AFTERNOON							
3:00 PM – 5:00 PM	Student Game - Soccer Fields	Spring/Fall M-F	168				(32 players [assume 50% car factor] + 6 adults + 6 additional spectators) X 6 soccer fields = 168 cars
3:00 PM – 5:00 PM	Student Game – Gymnasium	Winter M-F	47				Assumes basketball game: 20 players, 6 adults, 40 parents, 1 custd.
3:00 PM – 5:00 PM	School Meetings - Faculty/Staff	Daily M-TH	127				Assume all-staff meeting (peak count), 1 custodian
3:00 PM – 5:00 PM	School Club Meeting - Staff	2x per week	5				Assume 20 student members, 4 adults, 1 custodian

W.E. BALMER ELEMENTARY SCHOOL

DORE & WHITTIER ARCHITECTS

DESIGN DEVELOPMENT ZONING SUBMISSION - PARKING ANALYSIS

EVENING 4:30 PM **–** 5:30 PM Night 1 Parent Open House PK-K 1x per semester 260 246 students; assume one car per household; 14 staff 5:30 PM **–** 6:30 PM Night 1 Parent Open House Gr 1 216 1x per semester 196 students; assume one car per household; 20 staff 216 6:30 PM **–** 7:30 PM Night 1 Parent Open House Gr 2 1x per semester 196 students; assume one car per household; 20 staff 4:30 PM **–** 5:30 PM Night 2 Parent Open House Gr 3 216 1x per semester 196 students; assume one car per household; 20 staff 5:30 PM **–** 6:30 PM Night 2 Parent Open House Gr 4 216 196 students; assume one car per household; 20 staff 1x per semester Night 2 Parent Open House Gr 5 6:30 PM **–** 7:30 PM 1x per semester 216 196 students; assume one car per household; 20 staff 5:30 PM **–** 9:00 PM Community Meeting - Small 51 Daily T-W-TH 50 adult participants; assume one car per each, 1 custodian (Media Center or Quiet Lunch L) Community Meeting – Medium 5:30 PM **–** 9:00 PM 1x per 2 weeks 206 195 seats, 10 participants; 1 custodian (Café 1 or Café 2) 5:30 PM **–** 9:00 PM Community Meeting - Large 275 508 seats, assume 50% car factor (254), 20 participants; 1 1x per year (Gymnasium) custodian 6:30 PM **–** 8:30 PM Perform. Art Event - Concert, Play 154 190 seats, assume 75% car factor (143), 10 adults; 1 custodian 2 x per semester (Café 1) 5:30 PM **-**7:00 PM Community Sport -Early Game Winter/ Daily M-F 1222 148 bleacher seats, assume 75% car factor (111), 10 adults; 1 (Gymnasium) custodian 7:00 PM **–** 8:30 PM Community Sport - Middle Game Winter/ Daily M-F 148 bleacher seats, assume 75% car factor (111), 10 adults; 1 122² (Gymnasium) custodian 8:30 PM **–** 10:00 PM Community Sport -Late Game Winter/ Daily M-F 148 bleacher seats, assume 75% car factor (111), 10 adults; 1 122^{2} (Gymnasium) custodian WEEKEND USE 8:00 AM - 3:00 PM Youth Soccer practices (32 players [1 parent car per each] + 6 adults + 6 additional Fall/ Saturdays 264 (Fields) spectators) X 6 soccer fields = 264 cars 8:00 AM **-** 5:00 PM Youth Softball/ Baseball (18 players [1 parent car per each] + 6 adults + 10 additional Spring/ Saturdays 68 (Diamonds) spectators) X 2 baseball diamonds = 68 cars (30 players [1 car per each] + 10 additional spectators) X 1 soccer 3:00 PM **–** 6:30 PM Community Adult Soccer Fall/ Saturdays, 40 (Fields) Sundays fields = 40 carsCommunity Babe Ruth Baseball (18 players [1 parent car per each] + 6 adults + 40 additional 3:00 PM **–** 7:00 PM Spring/ Saturdays, 64 (Large Diamond) Sundays spectators) X 1 baseball diamonds = 64 cars

February 28, 2019

² This number assumes a competition event with full bleachers. Most community sporting events in the gym will be much more sparsely attended. Existing Parking Spaces - striped, paved, legitimate spaces: 96



March 27, 2019

Mr. James Sheehan, Building Inspector Town of Northbridge Aldrich School Town Hall Annex 14 Hill Street Whitinsville, MA 01588

RE: W. Edward Balmer Elementary School – Zoning Bylaws Analysis Summary

Dear Jim,

As a follow-up to our letter to you of 2/28/19, we submit the following summary. The Balmer Elementary School project conforms with all applicable aspects of the Northbridge Zoning Bylaws, except for two points:

173-27 OFF-STREET PARKING AND LOADING REQUIREMENTS:

Parking:

Zoning Requirement: Community Facilities - Schools: 1 space per 300 NSF (table in Sec 173-27.C)

Building NSF = 111,568 NSF

Zoning Requires 372 parking spaces

Desired Parking Program per School Building Committee Working Group:

156 Staff + 24 Visitors 180 spaces

Additional Event Parking 89 spaces

Total Parking on Site Plan 246 spaces

Seeking Waiver for 126 spaces

We have submitted **an "Overflow Parking Plan" that** will yield an additional 54 spaces, bringing the total on-site parking capacity to 300 spaces.

Per the request of the Technical Review Committee at our 1/23/19 meeting, we have submitted a verification of the **school's parking needs as well as** a Parking and Event Analysis which shows that there are no likely scenarios that will exceed the total onsite parking capacity. Most scenarios will easily be accommodated with the proposed 246 spaces, and the few, infrequent, high-capacity events will be accommodated using the Overflow plan for 300 spaces.

Loading Areas:

Zoning requires 1 per 7,500 NSF + 1 per 15,000 NSF in excess (table 2 in Sec.173-27.C)

Building NSF = 111,568 NSF

Zoning requires: 8 loading spaces
Project has: 2 loading spaces
Seeking Waiver for 6 loading spaces

The project design has complied with all of the dimensional requirements of the Northbridge Zoning Bylaws, specifically lot frontage, yard setbacks, lot width, and building height with the exception of the parking requirement and loading space requirement. In our professional opinion, we believe the amount of parking provided and the amount of loading spaces provided have met the reasonableness requirements in the context of MGL Chapter 40A, Section 3, and would therefore not be subject to a variance from the Zoning Board of Appeals.

ARCHITECTS PROJECT MANAGERS

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

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955

www.doreandwhittier.com

Mr. James Sheehan, Building Inspector BALMER – Zoning Analysis March 27, 2019 Page 2 of 2

Please contact me if you have any question on the above material, and we look forward to continuing the permitting process for this project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects ■ Project Managers

Tom Hengelsberg, AIA Project Manager

cc: File



Bk: 60183 Pg: 351 Page: 1 of 4 03/25/2019 10:25 AM WD



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 4B - Order of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

248-0662

MassDEP File Number

eDEP Transaction Number

Northbridge

City/Town

A. General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

Northbridge 1. Conservation Commission

- This Issuance is for (check one):
 - Order of Resource Area Delineation
 - Amended Order of Resource Area Delineation
- 3. Applicant:

From:

a. First Name

b. Last Name

Town of Northbridge Board of Selectmen

c. Organization

7 Main Street

d. Mailing Address

Northbridge

MA f. State 01588

e. City/Town

g. Zip Code

Property Owner (if different from applicant):

SAME

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

5. Project Location:

21 Crescent Street

01588

a. Street Address

138 and 141

Northbridge

e. Parcel/Lot Number

b. City/Town

c. Zip Code

d. Assessors Map/Plat Number

Latitude and Longitude

42d07m52s

71d40m52s

(in degrees, minutes, seconds):

f. Latitude

g. Longitude

6. Dates:

11/30/18

1/16/19

a. Date ANRAD filed

b. Date Public Hearing Closed

1/16/19 c. Date of Issuance

MR: BK4369

WPA 4B, Order of Resource Area Delineation • Page 1 of



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 4B – Order of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
248-0662
MassDEP File Number
eDEP Transaction Number
Northbridge
City/Town

Δ	General	Information	(cont.)
_ .	Schola	IIIIOIIIIauoii	COIII.

			D - Balmer Elementary School	11/30/18
	a. T	itle		b. Date
	c. T			d. Date
B.	. 0	rde	er of Delineation	
1,	The	e Co	ichever is applicable):	
	a.) above and in the Abbreviated he following resource area(s):		
			Bordering Vegetated Wetlands	
			2. Other resource area(s), specifically:	
			a.	
	b.		Modified: The boundaries described on the plan(s) referenced Conservation Commission from the plans contained in the Abbr Area Delineation, are accurately drawn from the following resound. Bordering Vegetated Wetlands Other resource area(s), specifically:	reviated Notice of Resource
			a.	
	C.		Inaccurate: The boundaries described on the referenced plan(s Notice of Resource Area Delineation were found to be inaccurate for the following resource area(s):	
			Bordering Vegetated Wetlands	
			2. Other resource area(s), specifically:	



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 4B – Order of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

OV	rided by MassDEP:
	248-0662
	MassDEP File Number
	1083866
	eDEP Transaction Number
	Northbridge
	City/Town

B.	Order	of	Delineation	(cont.)
-		-		100111.

-	
-	

C. Findings

This Order of Resource Area Delineation determines that the boundaries of those resource areas noted above, have been delineated and approved by the Commission and are binding as to all decisions rendered pursuant to the Massachusetts Wetlands Protection Act (M.G.L. c.131, § 40) and its regulations (310 CMR 10.00). This Order does not, however, determine the boundaries of any resource area or Buffer Zone to any resource area not specifically noted above, regardless of whether such boundaries are contained on the plans attached to this Order or to the Abbreviated Notice of Resource Area Delineation.

This Order must be signed by a majority of the Conservation Commission. The Order must be sent by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html).

D. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate DEP Regional Office to issue a Superseding Order of Resource Area Delineation. When requested to issue a Superseding Order of Resource Area Delineation, the Department's review is limited to the objections to the resource area delineation(s) stated in the appeal request. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order of Resource Area Delineation will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order or Determination, or providing written information to the Department prior to issuance of a Superseding Order or Determination.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act, (M.G.L. c. 131, § 40) and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

Provided by MassDEP: 248-0662



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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WPA Form 4B - Order of Reso	1083866	
Delineation	eDEP Transaction Number	
그는 그 그 그 그 그는	Northbridge	
Massachusetts Wetlands Protection Act M.G	.L. c. 131, §40	City/Town
E. Signatures		01/16/2019
3		Date of Issuance
Disposition to the number of many bounds and it is	0.1.	4
Please indicate the number of members who will sign	this form.	1. Number of Signers
(unthing) (compt of)		
Signature of Conservation Commission Member	Signature of Conservat	tion Commission Member
Jus & maluon		
Signature Conservation Commission Member	Signature of Conservat	tion Commission Member
Married & Planes		
Signature of Conservation Commission Member	Signature of Conservat	tion Commission Member
Adland C. Cluz		
Signature of Conservation Commission Member		
This Order is valid for three years from the date of	issuance.	
If this Order constitutes an Amended Order of Res	ource Area Delineation	on, this Order does not extend
the issuance date of the original Final Order, which		less extended in writing by
the issuing authority.	and the same	
This Order is issued to the applicant and the property of	owner (if different) as	follows:
\	(,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2. By hand delivery on	3 D By certified ma	il, return receipt requested on
Z. D. Sy rialid delivery of	o. Dy certified fila	ii, return receipt requested on
-e012, 2014		
a. Date	a. Date	



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 4B – Order of Resource Area Delineation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

eDEP Transaction Number

City/Town

Recording Information

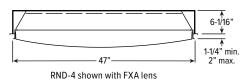
Prior to commencement of work, this Order of Resource Area Delineation must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Resource Area Delineation. The recording information on this page shall be submitted to the Conservation Commission listed below.

Conservation Commission
Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation
Commission.
To: No RTHEPIDGE Conservation Commission
Please be advised that the Order of Resource Area Delineation for the Project at:
21 CRESCENT ST 248-0662
Project Location MassDEP File Number
·
Has been recorded at the Registry of Deeds of:
County DER GO 183 For: Town OF NORTHBRIDGE
County Book Page
For: Property Owner OF NORTHBILIDETE
and has been noted in the chain of title of the affected property in:
1121 G
Book Page
In accordance with the Order of Resource Area Delineation issued on:
01/16/19
Date / I
If recorded land, the instrument number identifying this transaction is:
Instrument Number
If registered land, the document number identifying this transaction is:
2019 00025349
Document Number
Signature of Applicant











FEATURES

- Flat, convex, or concave lens profile adds visual interest to a variety of applications
- Provides soft, uniform ambient illumination
- Adjustable ring and lens assembly provides clean appearance
- Inner flange prevents light leaks
- Lift-and-twist lens assembly allows for easy maintenance
- Drywall or grid system installation
- Designed and manufactured in the USA

SPECIFICATIONS

- HOUSING 20-gauge C.R.S.
- SHIELDING Frosted acrylic lens, .125"
- FINISH 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal on reflective surfaces. Textured matte white powder after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High quality mid-power LED boards. L85 at 50,000 hours. 25°C maximum ambient operating temperature.
- MOUNTING For installation in NEMA Type "6", "SS", or "F" ceiling systems. Earthquake clips are standard. Fixture must be installed prior to ceiling system installation.
- LISTINGS
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - City of Chicago Environmental Air approved when specified with CP option.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

NOTE: Fixture must be installed prior to ceiling system installation.

IMPORTANT: Electrostatic sensitive unit. Observe precautions when handling.

ORDERING EXAMPLE: RND - 4 - L200/835 - FXA - OPTIONS - DIM - UNV

ORDERING INFO

SERIES	DIAMETER	LUMEN	IS ^[1]	CRI	CCT	LENS [2]
RND	2 2'	2'		8 80	27 2700K	FXA Frosted convex acrylic lens
	3 3'	L22	2,200lm		30 3000K	FCA Frosted concave acrylic lens
	4 4'	L45	4,500lm		35 3500K	FFA Frosted flat acrylic lens
		L83	8,300lm		40 4000K	
		3'			50 5000K	
		L67	6,700lm			
		L150	15,000lm			
		4'				
		L111	11,100lm			
		L200	20,000lm			

OPTIONS

EM/10W 10-watt emergency battery [4]

Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Example: 9,500 nominal lumens = RND-4-L111/835-FXA-(L95)

CP Chicago plenum (CCEA)

DRIVER [3] VOLTAGE DRV Non-dimming driver 120 120V **DIM** Dimming driver **277** 277V DIM1 1% dimming driver **UNV** 120-277V

NOTES

- Nominal lumen output based on 3500K CCT and FXA shielding. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- See page 3 for FIXTURE DETAILS.
- See page 3 for ADDITIONAL DRIVER OPTIONS. 120V 277V only.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	L22	2276	28.3	80.5
2'	L45	4582	56.6	80.9
	L83	8375	106.1	78.9
3'	L67	6702	66.4	101.0
3	L150	15197	153.7	98.9
4'	L111	11234	106.5	105.5
4	L200	20168	204.7	98.5

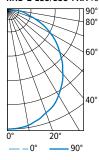
MULTIPLIER TABLES

COLOR TEMPERATURE					
ССТ	CONVERSION FACTOR				
2700K	097				
3000K	0.99				
3500K	1.00				
4000K	1.03				
5000K	1.06				

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
 Use multiplier table to calculate additional options.

PHOTOMETRY

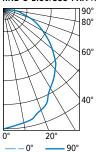
RND-2-L83/835-FXA Total Luminaire Output: 8376 lumens; 106.1 Watts | Efficacy: 78.9 lm/W | 80.0 CRI; 3500K CCT



	,						
	VERTICAL ANGLE	НО	ZONAL LUMENS				
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS		
8	0	2979	2979	2979			
5	5	2986	2971	2964	283		
문	15	2873	2866	2862	809		
CANDLEPOWER DISTRIBUTION	25	2655	2651	2647	1219		
2	35	2342	2327	2335	1454		
No.	45	1943	1928	1936	1487		
Œ,	55	1465	1491	1461	1325		
ᅙ	65	1009	1021	998	1000		
S	75	569	565	542	587		
	85	192	188	188	214		
	90	83	68	60			

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	2310	28
S	0 - 40	3764	45
딟	0 - 60	6576	79
]	0 - 90	8376	100
	0 - 180	8376	100

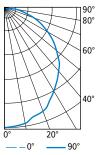
RND-3-L150/835-FXA Total Luminaire Output: 15196 lumens; 153.7 Watts | Efficacy: 98.9 lm/W | 80.0 CRI; 3500K CCT



	VERTICAL ANGLE	НО	ZONAL LUMENC		
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
8	0	5684	5684	5684	
DISTRIBUTION	5	5607	5607	5607	533
뭂	15	5347	5358	5368	1508
三	25	4870	4882	4882	2220
	35	4062	4078	4069	2548
8	45	3467	3472	3467	2657
CANDLEPOWER	55	2668	2979	2663	2384
를	65	1829	1829	1833	1813
S	75	1006	1006	1006	1078
	85	362	358	362	413
	90	151	144	151	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	4261	28
S	0 - 40	6809	45
E	0 - 60	11851	78
⋛	0 - 90	15155	100
	0 - 180	15196	100

 $\textbf{RND-4-L200/835-FXA} \ \textit{Total Luminaire Output: 20167 lumens; 204.7 Watts | Efficacy: 98.5 lm/W | 80.0 \ CRI; 3500K \ CCT | 10.00 \ CRI; 20.00 \$

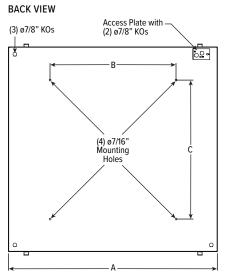


	VERTICAL ANGLE	HO	ZONAL LUMENS		
		0°	45°	90°	ZONAL LUMENS
8	0	7308	7308	7308	
Ĕ	5	7148	7139	7139	680
CANDLEPOWER DISTRIBUTION	15	6780	6784	6780	1925
三	25	6287	6276	6276	2889
2	35	5455	5455	5455	3418
8	45	4651	4642	4651	3557
Ĭ.	55	3582	3582	3570	3178
夏	65	2466	2460	2457	2431
S	75	1337	1329	1337	1445
	85	495	495	501	567
	90	211	211	211	

SUMMARY	ZONE	LUMENS	% FIXTURE
Ξ	0 - 30	5494	27
S	0 - 40	8912	44
LUMEN:	0 - 60	15647	78
흺	0 - 90	20089	100
	0 - 180	20167	100



FIXTURE DETAILS



LENS PROFILES FXA FFA **FCA**

CROSS SECTIONS

FIXTURE SIZE	A (DIA)	В	C	
FIXTURE SIZE	A (DIA.)	В	MIN.	MAX.
2'	23"	6-1/16"	1-1/4"	2"
3'	35"	6-1/16"	1-1/4"	2"
4'	47"	6-1/16"	1-1/4"	2"

SERIES	Α	В	С	D	E	CUTOUT SIZES
RND-2	24"	14"	10"	1-9/16"	1-1/2"	ø22-1/4" ±1/4"
RND-3	36"	20"	24"	2-1/16"	1-1/2"	ø34-1/4" ±1/4"
RND-4	48"	29"	32"	2-9/16"	1-1/2"	ø46-1/4" ±1/4"

NOTE: Fixture must be installed prior to ceiling system installation.

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult factory.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (Must specify 120V or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume® A-Series 1% dimming driver for forward phase line voltage controls (120V only)
LDE1	Lutron EcoSystem® H-Series 1% dimming driver for EcoSystem® controls
LDE5	Lutron EcoSystem® 5-Series 5% dimming driver for EcoSystem® controls
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

FINISH OPTIONS





MEMORANDUM

DATE: March 27, 2019

TO: Northbridge Balmer School Building COPY: SMMA (OPM)

Committee

File

Thomas Hengelsberg, AIA

FROM: Project Manager

PROJECT: W. Edward Balmer Elementary School PROJECT NO: 17-0759

SUBJECT: Proprietary Specifications for Vote

Dear Balmer School Building Committee,

Mass. General Laws, Chapter 30 Section 39M(b), require that materials specifications in construction contracts name a minimum of three manufacturers for each material or product specified in order to provide for competitive bidding. Specifications that restrict competition to less than three manufacturers may only be used for "sound reasons in the public interest" after a reasonable investigation. A proprietary specification must be approved by an elected body, which in this case will be the Northbridge School Committee.

The reasoning for each proprietary specification is outlined on the following pages in a format that provides for the official recording of the vote. Each of these proprietary designations should be approved in separate votes.

We would ask that the School Building Committee review these items, and vote to recommend that they be submitted to the School Committee for a vote to approve them.

Sincerely,

DORE & WHITTIER ARCHITECTS

Thomas Hengelsberg, AIA, NCARB, LEED AP, MCPPO Project Manager

ARCHITECTS
PROJECT MANAGERS

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

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955

W. EDWARD BALMER ELEMENTARY SCHOOL

DORE & WHITTIER ARCHITECTS

DESIGN DEVELOPMENT SPECIFICATIONS

ANTICIPATED PROPRIETARY SPECIFICATION ITEMS

3/27/2019

SECTION	Mall	I OCATION IN PRO IECT	REASON FOR 11SF
05 12 00	FERO Anchor Systems – "melt-away" clips that join fire wall to structural steel frame	At fire wall, both sides	Melt-away clips for supporting fire wall, no other manufacturers of this critical element for significantly less expensive fire wall construction.
08 35 13.23	Folding Fire Separation Doors: "Won-Door" Corporation accordion horizontal-acting automatic fire door. Possible VE/ AHJ/ SBC veto item	Three (3) fire wall passage doors, one each level of the building.	This single manufacturer supplies a large-opening fire door that slides into place when the alarm is sounded, but also has a push-to-open function to allow use as a horizontal exit. It is used to keep the corridor free and clear of intermediate posts for its entire width, which are often obstacles for small children in the corridor. There are no equals on the market.
08 40 13	Protective Framed Glazing Assemblies - Insulated Batter-Resistant Glazing: School- Guard "SG-4" OR: 3M S&S Window Films [2 options]	Main entry vestibule, main office windows, and Pre-K Vestibule glazing	Protective security glazing was voted by the SBC to be included at entrances and Office glazing in SD phase. School-Guard appears to be the highest effectiveness security glazing for a reasonable cost. School-Guard is locally based in Adams, MA and manufactured in Pittsfield, MA.
08 63 00	Metal-Framed Skylights – Translucent Panel Skylight: Kalwall or Major Industries 2 options Structures Unlimited is third mfr. – see note at right	Two skylights, over Stair 5 and Light well adjacent to Media Center	This type of fiberglass-faced, translucent panel gives glare-free natural light, coupled with high R-Value glazing material. There are only two panel suppliers in the market. There are three skylight unit manufacturers, but two use Kalwall panels, and they will not bid against each other.
08 71 00	Door Hardware - Lockset Cores and Keys: Schlage "Primus".	All building locksets and locking door hardware	District Standard. (Hardware locksets to be bid from three or more listed, compatible, equivalent products.)
00 88 80	Translucent Glazing: "Solera" insulated translucent glazing units, OR "Okalux Plus" insulated translucent glazing units [2 options]	Gymnasium clerestory windows	These are only options for a glazed solution that looks like glass (aesthetic requirements), meets the U-value requirement, and is translucent (VLT requirement).
09 84 30	Sound-Absorbing Wall Units: Direct-attach wall panels: Knauf Ecose and Akusto Texona	Cafeteria, OT/PT rooms, Music Rooms, Library- Media Center, ELAs	For this type of acoustical wall panel, these fabric products are only ones that meets the LEED v4 criteria. There are others out there, but they do not have the LEED documentation in place.

he Ie					curity ng a nject. rietary
For this type of acoustical panel, Tectum is the only one that meets the LEED v4 criteria. There are others out there, but they do not have the LEED documentation in place.	Required by Northbridge Fire Department.	District/Town Standard or Service Contract in place?	District Standard.	District Standard.	Northbridge is currently prioritizing and developing a district-wide security upgrade project. Decisions made on this current project will be setting a new District Standard for future projects, including the Balmer ES project. NPS will competitively procure the vendor, but keep the system proprietary as a new District Standard. Provisional, final decision TBD.
For th LEED LEED	Requi	Distric	Distric	Distric	Northi upgra- new C NPS v as a n
Gymnasium walls	Front and rear building entrances. Two locations.	Building HVAC Controls	At MDF Room.	Throughout the school.	Throughout the school.
Sound-Absorbing Wall Units for High Abuse Locations: Armstrong "Tectum" direct attach panels	Exterior Fire Protection Specialties: "Knox Box" Series 3200 rapid entry system	BMS/ Mechanical Controls Query in to Richard Maglione.	Data Communication System, Network Switches: Aruba 5400 series	Data Communication System, Wireless Access Points: Aerohive, AP250 and/or AP550.	Integrated Access Control/ Intrusion Detection/ Video Surveillance Platform/System: TBD
09 84 30	10 44 00	23 00 10	27 20 00	27 20 00	28 10 00

END OF LIST

MEMORANDUM



DATE: March 26, 2019

TO:

Northbridge School Committee

DRAFT

COPY: W.E. Balmer ES

School Building Committee

SMMA (OPM)

File

FROM: Thomas Hengelsberg, AIA

Project Manager

PROJECT: W. Edward Balmer Elementary School

PROJECT NO: 17-0759

SUBJECT: Proprietary Specifications for Vote

Dear Northbridge School Committee,

Mass. General Laws, Chapter 30 Section 39M(b), require that materials specifications in construction contracts name a minimum of three manufacturers for each material or product specified in order to provide for competitive bidding. Specifications that restrict competition to less than three manufacturers may only be used for "sound reasons in the public interest" after a reasonable investigation. A proprietary specification must be approved by an elected body, which in this case will be the Northbridge School Committee.

The reasoning for each proprietary specification is outlined on the following pages in a format that provides for the official recording of the vote. Each of these proprietary designations should be approved in separate votes.

Sincerely,

DORE & WHITTIER ARCHITECTS

Thomas Hengelsberg, AIA, NCARB, LEED AP, MCPPO Project Manager

ARCHITECTS PROJECT MANAGERS

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

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955

www.doreandwhittier.com

BALMER ELEMENTARY SCHOOL RECORD OF PROPRIETARY PRODUCTS DESIGNATION AND VOTE March 26, 2019

Section 05 12 00 - Structural Steel Framing

Product: Engineered Masonry Break-Away Fire Release Connector

Manufacturer: FERO Corporation

- A fire wall is designed into the building to subdivide it into smaller fire compartments, per the building code. Given the building configuration, this is the lowest cost method to achieve the required fire resistance. The lowest cost construction method for the fire wall is a free-standing masonry wall, which is stabilized by bracing it to the structure on each side of the fire wall in a way that will allow the collapse of either structure without damaging the wall or causing it to collapse. The project proposes using a "break-away" connector designed to melt in the heat of the fire for this purpose.
- The FERO Company is the only known source for connection clips that have been designed, engineered, and tested specifically for this purpose. FERO clips are custom engineered to meet the structural loading and fire performance requirements for every project, which is unique. While other components such as aluminum could be used, which would melt in a fire condition before the collapse of the structure, aluminum is generally not considered a load-bearing product. Any non-tested products used would have to be custom-engineered and tested to provide the same engineering assurance as the FERO product. Custom testing would present significant cost and potentially significant and unknown time delays to the project.
- Using the FERO Masonry Break-Away Fire Release Connectors (although proprietary) would facilitate the least expensive fire wall construction technique without representing significant added cost for the material, as the quantity of clips that would be required is relatively minor in comparison to the other material costs involved.

The Awarding Authority for the project hereby finds and determines after discussions with Dore & Whittier Architects Inc. the project Architect as presented above, and after reasonable investigation of other feasible alternatives, as reviewed by the **Owner's** procurement office, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being <u>FERO Break-Away Fire-Release Connector</u> be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTED BY THE NORTHBRIDGE SCHOOL COMMITTEE

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED	
DATE:			
SIGNATURE / RECORDED BY:			
NAME / TITLE:			

Section 08 35 13.23 - Folding Fire Separation Doors

Product: Accordion Horizontal-Acting Automatic Fire Door

Manufacturer: Won-Door Corporation "FireGuard" Door

- At the fire walls on each level of the building, a 2-hour fire-rated opening protective (door) is required to allow passage through the wall from one side of the building to the other. The design intent as dictated by the SBC Working Group is that this fire door be as minimal as possible to allow the maximum clear width in the corridor. This improves circulation efficiency during heavily-used times of the day, and most importantly, eliminates posts, columns, or other projections that can be injurious to small children who could walk into them. The clear width is also important aesthetically to not divide the building visually and spatially.
- If the building goes into fire alarm mode, the door closes automatically, and can be re-opened using a clearly identified push-to-exit button located on each side of the door jamb. The door is powered on the emergency electrical system (generator backup) with a self-contained battery backup in the event of power failure and generator failure.
- The product specified is the only type of opening protective that conforms to all of these design intents: 2-hour fire rated, full-width clear opening, fully automatic function.

The Awarding Authority for the Error! Reference source not found project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, as reviewed by the Owner's procurement office, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the accordion horizontal-acting automatic fire door manufactured by Won-Door Corporation be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 08 40 13 - Protective Framed Glazing Assemblies

Product: Insulated Batter-Resistant Glazing

Manufacturers: School-Guard "SG-4", or, 3M "S&S Window Films" (Two Options)

- Protective security glazing was voted by the SBC during the Schematic Design phase to be included at the Main Entrance door vestibule glazing, Pre-K Entrance door vestibule glazing, and Main Office window glazing.
- The specified products are designed to provide a high degree of batter-resistance that will slow down or deter an intruder to the school for a reasonable cost. The glazing is manufactured using a high-strength proprietary clear interlayer that holds the glass together once broken. The products are designed to slow down forced entry using blunt objects of firearms by as much as five minutes or more, buying valuable time for law enforcement to be alerted and arrive on scene.
- Board members should note, these products are NOT ballistic (bullet-resistant) glazing, which would come at a substantially higher cost.
- These glazing products are available in dual thermal pane and interior single pane configurations, and can be installed into all of the specified window, door, and storefront glazing systems on the project.
- School-Guard is locally based in Adams, MA and manufactured in Pittsfield, MA. It should be noted that the MSBA looks favorably upon locally manufactured products used in its school projects.
- These two products are the only ones available on the market that can achieve the design and security goals, and meet the project budget.
- Two competitors are available for this product, not three as is preferred by MGL Ch 30. As such, this material must be designated as a proprietary product to the listed manufacturers.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, as **reviewed by the Owner's procurement** office, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the <u>insulated batter-resistant glazing manufactured by School-Guard, Inc., or 3M Corporation</u> be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 08 63 00 - Metal-Framed Skylights

Product: Translucent Panel Skylights

Manufacturers: Kalwall or Major Industries (Two options)

- The product is used to provide tempered, glare-free daylight to interior spaces with thermal performance that is superior to other forms of skylights.
- The size of the skylight assemblies in the project requires a metal-framed system, consistent with the products specified.
- The products specified are the only type that can meet the energy performance criteria within the budget.
- There are three manufacturers who can meet the product requirements of the specification: Kalwall, Structures Unlimited, and Major Industries, however Kalwall and Structures Unlimited are related (Structures Unlimited utilizes Kalwall panel products) and will not bid on the same projects.
- Structures Unlimited deals mainly in very large expanses of translucent roof panels, so smaller skylights of the size indicated for this project are more suitable to Kalwall products.
- Two competitors are available for this product, not three as is preferred by MGL Ch 30. As such, this material must be designated as a proprietary product to the listed manufacturers.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc. the project Architect as presented above, and after reasonable investigation of other feasible alternatives, as reviewed by the Owner's procurement office, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the translucent panel/skylights manufactured by Kalwall Corporation and Major Industries be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 08 71 00 - Finish Hardware

Product: Lockset Cores and Keys - "Primus" Cylinders and Patented Keying System

Manufacturer: Schlage, an Allegion PLC brand.

- It is the **Owner's** desire to have the project locks match other school district buildings, which use a Schlage "**Primus**" Interchangeable Core cylinder.
- Cores from different manufacturers are not guaranteed to be interchangeable; i.e. Schlage FSIC cores do not fit in Sargent FSIC locksets.
- Use of products of the same manufacturer will provide for seamless interchangeability and master-keying with the **owner's** proprietary key system already in use.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the Schlage "Primus" cylinders and patented keying system be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 08 80 00 - Glazing - insulated translucent glazing units

Product: "Solera", OR, "Okalux Plus"

Manufacturers: Advanced Glazing Inc. or Okalux Inc. (Two options)

- Exterior glazing on the project at the high, or "clerestory" level of the Gymnasium incorporate insulated translucent glazing, which is designed to admit generous amounts of natural day light without glare or "hot spots" associated with typical clear glazing, while providing a high degree of thermal resistance.
- Glare resistance is a key design requirement in an athletic space where hot spots can temporarily blind players, create unfair advantages, and otherwise disturb play and sporting events.
- Thermal resistance is a key design requirement to minimize energy use in the building.
- These products are the only two on the market that can achieve both of these design requirements while being
 able to fit into the typical aluminum curtain wall or storefront systems specified on the project.
- Two competitors are available for this product, not three as is preferred by MGL Ch 30. As such, this material must be designated as a proprietary product to the listed manufacturers.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the <u>insulated</u> <u>translucent glazing units</u>, "Solera", or, "Okalux Plus" be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 09 84 00 - Sound Absorbing Acoustical Wall panels

Product: "Ecose" or "Texona"

Manufacturers: Knauf Inc., or, Akusto Inc.

- These panels are used for acoustical wall absorption in high volume spaces or in spaces that need to reduce the reverberation of noise.
- Only two manufacturers with these products on the market meet ASTM E84 and LEED indoor air quality requirements for the wall panel system. They are Knauf Ecose and Akusto Texona acoustic wall panels.
- The design team continues to investigate this product and is working with our LEED consultant regarding meeting the acoustical and indoor air quality LEED credits.

If these products are not designated as proprietary, and acoustical wall panels are required, there could be a negative impact on LEED credits, or a "field assembled" system of acoustic panels would be needed, which would likely cost the same or more than factory-made panels, may not be as durable, and may exhibit quality control issues due to the field assembly. Alternatively, other acoustic options or solutions would have to be verified with the acoustical consultant.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the Knauf Ecose and Akusto Texona be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 09 84 00 - Sound Absorbing Acoustical Wall panels for High-Abuse areas

Product: Tectum wall panels Manufacturers: Armstrong Inc.

- These panels are used for acoustical wall absorption specifically in the Gymnasium, a high volume that need to reduce the reverberation of noise, and is a high abuse environment requiring a stronger panel system.
- Only one manufacturer with this product on the market meet ASTM E84 and LEED indoor air quality requirements for the wall panel system. **It is Armstrong "Tectum"** acoustic wall panels.
- The design team continues to investigate this product and is working with our LEED consultant regarding meeting the acoustical and indoor air quality LEED credits.

If these products are not designated as proprietary, and acoustical wall panels are required, there could be a negative impact on LEED credits, or a "field assembled" system of acoustic panels would be needed, which would likely cost the same or more than factory-made panels, may not be as durable, and may exhibit quality control issues due to the field assembly. Alternatively, other acoustic options or solutions would have to be verified with the acoustical consultant.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the Tectum Acoustic Wall Panels by Armstrong Inc. be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:	-	

Section 10 44 00 - Fire Protection Specialties

Product: Exterior Key Lock Box - "Rapid Access System - KnoxBox Series 3200"

Manufacturer: The Knox Company

- Per the policies of the Northbridge Fire Department, a specific exterior key box is required for the project to guarantee compatibility with fire department equipment and training, and to assure emergency access to the building.
- The proprietary product shall be KnoxBox Series 3200, as manufactured by The Knox Company.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the "Rapid Access System" KnoxBox Series 3200 by The Knox Company be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 23 00 10 - HVAC

Product: Building Energy Management System

Manufacturer: XXXXX

- It is in the best interest of the Awarding Authority to utilize the same energy management system currently used at other facilities and buildings in the District, in order to have a system accessible to and familiar to the Maintenance staff.
- Systems of one manufacturer will provide for simplified maintenance and management of the system, resulting in reduced costs to the Owner.
- By matching the systems already in place, compatibility of the new building to the existing systems in use by the Owner will assure seamless transfer of data.
- In an effort to modernize, bring standardization, preferred service pricing and access, and higher performance to all of its school buildings, the Town has recently decided to procure a uniform system for Facilities Energy Management System (building controls).
- The Town has conducted a reasonable investigation of the Building Controls manufacturers and providers available in the area. Criteria for selection were: technical superiority, ease of use/interface of the control system, compatibility with equipment, service availability and access, and competitive price.
- The building controls system contract was procured through a duly executed, competitive RFP and Public Bid process.

The Awarding Authority for the projection	ect, hereby finds and determines after discu	ssions with Dore & Whittier Architects
nc. the project Architect as presente	ed above, and after reasonable investigation	n of other feasible alternatives, that it is
in the best interests of the Owner and	nd the public at large to have certain portion	s of the work, being the building
energy management system manuf	actured by	be included in
the specifications for such project a	s a proprietary specification and not provide	for "or equal" substitutions.
VOTED BY THE NORTHBRIDGE S	SCHOOL COMMITTEE	
VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 27 20 00 - Data Communication System, Network Switches

Product: 5400 Series Manufacturer: Aruba

- Northbridge Public Schools has developed a district-wide standard for IT Network Switches, to which the Balmer project will be subject.
- It is in the best interest of the Awarding Authority to utilize the same network switches currently used at other facilities and buildings in the District, in order to have a system accessible to and familiar to the IT staff.
- Systems of one manufacturer will provide for simplified maintenance and management of the system, resulting in reduced costs to the Owner.
- By matching the systems already in place, compatibility of the new building to the existing systems in use by the Owner will assure seamless transfer of data.
- The Aruba 5400 Series has been designated by the Northbridge PS Director of Technology as the district standard.
- It may be possible to competitively procure the vendor who will supply this technology, and/or procure the item
 off the State Bid List.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects nc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the 5400 Series Network Switches manufactured by Aruba be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 27 20 00 - Data Communication System, Wireless Access Points

Product: AP250 and/or AP550

Manufacturer: Aerohive

- Northbridge Public Schools has developed a district-wide standard for IT Wireless Access Points, to which the Balmer project will be subject.
- It is in the best interest of the Awarding Authority to utilize the same wireless access points currently used at other facilities and buildings in the District, in order to have a system accessible to and familiar to the IT staff.
- Systems of one manufacturer will provide for simplified maintenance and management of the system, resulting in reduced costs to the Owner.
- By matching the systems already in place, compatibility of the new building to the existing systems in use by the Owner will assure seamless transfer of data.
- The Aerohive AP250 and/or AP550 has been designated by the Northbridge PS Director of Technology as the district standard.
- It may be possible to competitively procure the vendor who will supply this technology, and/or procure the item
 off the State Bid List.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects nc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the Wireless Access Points AP250 and/or AP550 manufactured by Aerohive be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:		
NAME / TITLE:		

Section 28 10 00 - Integrated Electronic Security Systems

Product: Access Control and/or Building Security Systems

Manufacturer: TBD

- Northbridge Public Schools is currently prioritizing and developing a district-wide security upgrade project. It is likely that the decisions made on this current project will be setting a new District Standard for future projects, including the Balmer ES project.
- It is in the best interest of the Awarding Authority to utilize the same access control and building security system currently used at other facilities and buildings in the District, in order to have a system accessible to and familiar to the Maintenance staff.
- Systems of one manufacturer will provide for simplified maintenance and management of the system, resulting in reduced costs to the Owner.
- By matching the systems already in place, compatibility of the new building to the existing systems in use by the Owner will assure seamless transfer of data.
- The TBD platform has been recommended by the Designer to the Northbridge SD Director of Technology, who
 has been advised to competitively procure the vendor, but keep the system proprietary as a new District
 Standard.
- The platform to be specified is manufactured by TBD. The particular system specification is TBD at this time.

The Awarding Authority for the project, hereby finds and determines after discussions with Dore & Whittier Architects Inc., the project Architect as presented above, and after reasonable investigation of other feasible alternatives, that it is in the best interests of the Owner and the public at large to have certain portions of the work, being the Integrated by TBD be included in the specifications for such project as a proprietary specification and not provide for "or equal" substitutions.

VOTE:	APPROVED AS PROPRIETARY	■ NOT APPROVED
DATE:		
SIGNATURE / RECORDED BY:	_	
NAME / TITLE:		



Owner Design Review Comments

RESPONSE TO COMMENTS MARCH 28, 2019

FONTAINE BROS INC RESPONSE

DESIGN TEAM RESPONSE

Project Name: Project Number:

W. Edward Balmer Elementary School, Whitinsville, Massachusetts

17020

Document Reviewer:

Peter L'Hommedieu, Jeff Lundquist

Project Phase:

Design Development

Reviewed Date:

February 21, 2019

Discipline

All Disciplines

DESIGN REVIEW NOTES

Item	SBC Member	DWG/Spec	Design Deve	elopment 60% Construction Docu		ction Documents	90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
1.	Peter L'Hommedieu		What is the plan for method of ledge removal, more specifically what method is being used knowing the close proximity of private property houses and the existing school?	Several methods for ledge remployed as appropriate/ne Further geotechnical investionserved by CM, which will	cessary including blasting igations are being perform	and mechanical removal. ned this week and will be		
2.	Peter L'Hommedieu	A1.70 A1.71	Per drawing A1.70 & A1.71, Common boys and girls bathrooms have shared sink areas, it appears it would be very easy for boys and/or girls to accidentally go into the wrong side. How is this going to be managed when there are no actual doors or ability to police this? What is the benefit of shared sink areas? This layout concerns me especially in areas where adults could be using these same bathrooms.	This toilet room layout was developed in collaboration with the Working Group. D&W will revisit with Working Group based on these comments and report out recommendations.				
3.	Peter L'Hommedieu	C3.02	Per drawing C3.02, what is the need for the roadway at the northeast corner of the site going to the north field? Is this required for emergency vehicles or a convenience? If not required can it be deleted or simplified?	This is an ambulance access/turnaround, as well as the accessible route to the field, designed by LA and D&W, accepted by Fire and Police Depts.				



Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Constru	ction Documents	90% Coi	nstruction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
4.	Peter L'Hommedieu	C3.02 E0.03	Per drawing C3.02 & E0.03, why are so many islands needed in the West parking lot? It appears they are not all needed for lighting? If some are for esthetic reasons and not needed can they be deleted to save money, add parking spots, and make snow removal more efficient?	longer than 100'; 2. Screening of parking fror side are above the parking, 3. Trees provide some shar great aesthetic improvemen 4. Islands organize traffic al behavior in lots, making ther	n neighbors is required by tree canopy provides scre de in parking lot, importar t. nd greatly reduce driving m safer.	run of parking spaces/stalls is y Zoning - since neighbors on eening: it for reducing heat island effer speeds and unpredictable drive eing coordinated to avoid light	this ct, and ing	
5.	Peter L'Hommedieu	C6.07	Per drawing C6.07, in lieu of the modular block retaining wall on the east side of the site, would it be more cost effective to do a cast in place concrete retaining wall?	The Modular block gravity re for work close to the properl methods for how to achieve cast-in-place concrete wall i numerous challenges const	ty line. Fontaine is currer this in the most cost-effe s being priced for this exe	ntly evaluating means & ctive manner. A ercise, but presents		PRICE FOR 4/2/19
6.	Peter L'Hommedieu	L4.20	Per drawing L4.20, detail 11, footings seem excessive for simple concrete stairs.	Stairs are built on foundation will not heave due to frost and design intent. A stair built w	ction. Details as shown ar	ngs below frost line (4'-0'), so t re necessary and consistent w heave and/or crack.	hey ith	
7.	Peter L'Hommedieu	L4.30	Per drawing L4.30, can backstops and/or fencing be change to galvanized system and not vinyl clad system to save cost?		are often burrs in galvaniz	al impact (better aesthetics); ar ing). Galv is certainly an option was used on High School.		PRICE FOR 4/2/19
8.	Peter L'Hommedieu	A4.01	Per drawing A4.01, can the exterior façade finishes on the North and/or East sides be simplified or changed to a less expensive material such as split face block or jumbo bricks to reduce costs? Or expand the use of current masonry systems in these areas.	Providing Utility sized brick in lieu of Standard Modular brick is being priced; Some other minor facade VE measures currently being priced.				PRICE FOR 4/2/19
9.	Peter L'Hommedieu	A9.60	Per drawing A9.60, can the budget support the density of fixed storage shown?	Project is on-budget with carrequest of User Groups in t		s shown, which was at the		
10.	Peter L'Hommedieu	K1.00	Per drawing K1.00, is any equipment being salvaged from the current schools?	The age and condition of exhowever, equipment may be	xisting equipment is such e further evaluated for re	that none will be salvaged for distribution to other kitchens in	use in the new Kitchen; the District or for resale.	
11.	Peter L'Hommedieu	K1.13	Per drawing K1.13, per kitchen (storage room, cooler, and freezer), what duration of food stores were the sizes of these spaces designed to accommodate?	The walk-in cooler is sized is sized to accommodate w from the Federal governme with Aramark, the schools in	reekly needs as well as buent. Food storage was de	ulk commodity purchases		



Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Constru	ction Documents	90% Coi	nstruction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
12.	Peter L'Hommedieu	E1.11	Per drawing E1.11, do you have more information on light fixture types LRD2, LRD3, and LRD4?	Cutsheets to be provided ASAP.				
13.	Peter L'Hommedieu	Specifications Volume 1, Section 004101	Per volume 1 of the specifications, section 00 41 01, will the CM create modified bid forms with their scope clarifications/instructions or separate sections with clarifications/ instructions for each Trade Contractor to include in their bids?	Fontaine Bros will create project-specific scope documents for trade and non-trade bidders.				
14.	Jeff Lundquist		Can we economize the amount of islands in the parking areas?	See comment 4. above.				
15.	Jeff Lundquist		Can we economize the retaining wall on the east of the facility – while it looks nice, I'd rather spend the \$\$ inside the building?	presented at a previous SB height since that presentation	C meeting. Scope of the on. Cost difference between	The "rock face" finish treatmer wall has been greatly reduced een a more plain "rusticated" bl See also comment 5. above.	in both length and	PRICE FOR 4/2/19
16.	Jeff Lundquist		I'd like to see utility (or jumbo) brick instead of modular used – what is the cost differential?	See comment 8. above.				PRICE FOR 4/2/19
17.	Jeff Lundquist		Can we see an option to use split-face block (used at base of NHS) instead of cast-stone on the base of the facility.	This VE was considered in a recommend split face CMU porosity of the material and	as a first choice for a buil	ding base material due to		PRICE FOR 4/2/19
18.	Jeff Lundquist		We should consider having a hoist on the roof, so we don't need to bring in a crane/boom truck to hoist any materials needed for maintaining our equipment.	While this is a forward-think against frequency of use, reportable hoist (davit) for the below. To be discussed wit	ental cost of a lift, and the roof hatch for small loads	provision of a small s. See also Note 30.		PRICE FOR 4/2/19
19.	Jeff Lundquist		What would the deductive cost be to utilize standard fire doors instead of the automatic accordion door at the three locations?	VE being currently priced.				PRICE FOR 4/2/19
20.	Jeff Lundquist		I'm concerned about the screen wall – if we were able to only use it where it was truly needed acoustically, it could provide a significant savings in terms of not just the wall, but all of the	True scope of the acoustica effort. This depends on tes Acentech is a highly respectesting, and published acou confidence in their methods underway as part of designations.	ting to be conducted by the ted consulting firm that re stical properties of materi Reduction in screen v	ne acoustical consultant. lies on hard science, als. We have great		



Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Const	ruction Documents	90% Cons	struction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
			structure to withstand the moment implied by wind & drift loadings. I've seen Acentech be very conservative in the past – how do we ensure we are not being overly conservative in our screen					
			wall design? I'm concerned about snow-					
21.	Jeff Lundquist		drift between CL H.5 and J.5. Would it make more sense to raise the elevation of the roof to stay consistent with the adjoining roofs? This could potentially allow us to reduce the size of the steel members (avoid drifts) and prevent mechanical units from getting buried by snow (and NPS staff from having to clear them).	heights. In SD we evaluate a higher roof would necessi 2. The low roof between the building walls to admit naturelement. If the roof is raised 3. The structural engineer i 4. There are no mechanica	d the trade-off of more tate, and the added we e main building and Garal light to the north cand, those windows go as a saware of and is desilunits directly betwee	of the functional needs of the space uniform roof height versus the inall would be more costly than struym allows very important clerestor feteria, as well as the Gym. This way and the spaces are much daigning the roof structure for the drinthet wo taller roof masses. RTUeen wall (not currently shown but	creased wall area that ctural savings. y windows in the s an essential design reker. Iting load. 9 is more in the open,	
22.	Jeff Lundquist		The exterior wall details specifically waterproofing details aren't quite developed yet. I'd like to minimize sealant joints between dissimilar materials and use membranes wherever possible (it's not always possible). I do not foresee NPS spending future operational dollars on resealing joints when sealants can fail in 5-10 years.	Duly noted. Arch to further develop details for 60% CD submission.				
23.	Jeff Lundquist		Has the low voltage designers confirmed that the runouts from the tele/data closets are short enough to maintain performance? It looks like there are several runs in excess of 250LF, which in many cases is the limit.	The Technology Consultan done a confirmation of data distances, and though a few spaces are near or at the lin all are within 250' of an IDF closet. Another check will be done in CD phase.	ı run v mit,			
24.	Jeff Lundquist		Have the BMS panels for each rooftop unit been located? Do they fit? Are their runouts short enough to maintain performance?	remote locations (janitors cl	losets, storage rooms) nat will be located abo	the Boiler Room and 2 or 3 sub-pa ; Each RTU does not require its o ve-ceiling near-by each RTU. The irring.	wn panel. Each RTU will	





Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Constru	ction Documents	90% Cor	nstruction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
25.	Jeff Lundquist		Are we sure the electric room by code doesn't need to be rated?	Electric rooms, by code, do r Emergency Electric rooms w	not have to be rated; with hich area 2-hour rated.	the exception for		
26.	Jeff Lundquist		Are we sure the electric room by code isn't considered a "vault" requiring a 3-hour separation with no GWB construction?	GGD- The electric room is not a vault. It does not conta a high-voltage service or har liquid cooled equipment (transformers).				
27.	Jeff Lundquist		Can we see an option to economize the stair 5 lightwell? As designed we'd be spending a lot of money in the lightwell (fire rated curtain wall), and while it's nice, I don't see it as being core to the academic mission.	* It is the orientation point b large interior windows are no contact with the outdoors, a * the curtain wall product be	which most building occupion vertically through the eeded to maintain the seinstated goal in the Visionieing used is visually muclischools. We would arguit.	pants will pass several times a building and to the outdoors fi nse of lightness in the center of ng work that was done at the s n lighter than the typical heavy the that avoiding design that co	rom the inside of the buildi of the building and to main start of the project. and "chunky" hollow meta	tain al frames
28.	Jeff Lundquist		Can we delete mock-ups and go with benchmarks (that stay) instead? While mock-ups have value, for this facility I'd rather save the money and do an early benchmark that stays.	We are currently considering this request, in conversation with Fontaine Bros.				PRICE FOR 4/2/19
29.	Jeff Lundquist		We have an awful lot of cameras shown (70+) – Is this many really needed? Can we actually manage the data this will create?		e Security system. The	al for a school, but on the high number and location of camera orking Group input.		
30.	Jeff Lundquist		Do we have roof davits included for maintenance tie-off points?	which it is fitted", which refer	rs to question 18. above.	rtable small crane arm, and th If Jeff is referring to an ancho ipment is located within 10 fee	or point, we can evaluate	
31.	Jeff Lundquist		I believe the drainage design (particularly in the parking areas) can be economized, especially if islands can be deted. There may be redundant drainage in the northwest parking lot.	Some site drainage/ stormwater VE currently being priced.			_	PRICE FOR 4/2/19
32.	Jeff Lundquist		Why are we showing construction fencing on the west side of the facility, then going all the way up the utility easement? I'd think the fence on the west side could be shortened (the hill is a substantial barrier), and for the short	The project currently shows Work area. We agree that we done there (only Water goes Tel / Data extends halfway to closed at the NW corner of loop road. To be incorporated.	with the limited amount o s all the way to N. Main S to NM street.), the fence the site proper, at curve i	f work being Street and could be n the north		





Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Constru	ction Documents	90% Cons	struction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
			duration we're in the utility easement, the erosion (silt) fence should be adequate.					
33.	Jeff Lundquist		Could we consider using no curbs at some of the locations that cape-cod berms are shown (away from sidewalks)? Most streets in town have no curbs at all. Where we have sidewalks, we should use granite though.	Several issues occur when establishing driveway shoul causing erosion and impact approach can work, but so discourage rogue parking a beating. We do not recomn any of the main drives, this schedule impacts, and is no	der, erosion problem, ver ing pavement edges. For often with schools, if no cond nd pulling off, pavement of nend removing the curbs would be a significant des	icles parking on shoulders low traffic drives this urbing is provided to edges and turf grass take a on the rear drive, and for		
34.	Jeff Lundquist	C3.05	C3.05 – Typically I see the established benchmarks identified on civil control drawings – I couldn't find it.	To be included for final DD submission.				
35.	Jeff Lundquist	Civil	Civil – I assume all inverts / cover on all storm lines have been checked	Civil utilities and land surfacthus checked for cover in the				
36.	Jeff Lundquist	C7.01	C7.01 – On the catch basin and storm manhole details, I didn't see finger (perforated) drains called for. Without them you end up with the permanent "wet spot" during construction and afterwards. When I was working for a site contractor, we would always add these in as change order #1 (they benefit everyone), and if the client didn't want to pay for them, we'd install them anyway because it saved us from rework.	The "finger drains" suggests manholes) are 4" perforated four sides of a structure, are knockout into the catch bas permanent "soft spot" imme (or ultimately compact prop grade is typically below the particularly an issue for site through a wet (or freeze/tha Some of these structures had could be added to the v Civil engineer will evaluat submission cycle, 60% Cl	d drains that extend out he about 12"-18" below the in. Their purpose is durir ediately adjacent to a struerly), both in paved and largerly, between the includer water quality swale and alste the use of finger drain the includer water quality swale and alste the use of finger drain	orizontally roughly 3' on all surface, and tie in with a gronstruction to drain the cture that is difficult to drain andscape areas, as the ring construction. This is shed condition for months lely be the case at Balmer. In bioretention basins, in lets in landscape areas.		
37.	Jeff Lundquist	AP1.00	AP1.00 – On the phasing plan, should we include the construction of the rear (north) soccer field in an early season? I believe the school district wanted to have one grassy area for the kids to play on during construction, and this could provide that area, providing that logistics could be in place to allow it to safely happen.	completed early enough to This means it will have to be Space in the added field are Playground (taking outfield	have it available for start e completed in 2020. For ea being made available t from the baseball field). te the U-10 Soccer field b n site for use in 2020 is no I-10 soccer field, Fontaine 019.	ntaine is creating GREEN o south of the Existing y end of 2019, access to it of practical / safe. does not see any way to		



Item	SBC Member	DWG/Spec	Design Devel	lopment	60% Constru	ction Documents	90% Cons	struction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
38.	Jeff Lundquist	A1.13	A1.13 – change wording of divider curtain to partition With the			a fabric and mesh curtain, not a		PRESENT 4/2/19
39.	Jeff Lundquist	A Series	restrooms with external sinks, I think they'd work great up to about 3rd grade. I'd think we'd want traditional restrooms for the 5th graders (and potentially 4th), especially as some of the female students at that age may be starting their cycles and want a private place to wash hands.	This toilet room layout was developed in collaboration with the Working Group. D&W will revisit with Working Group based on these comments and report out recommendations.				
40.	Jeff Lundquist	Structural	Structural – In other states I've seen the structural designers be required to identify the most robust area of the facility for pupils and staff to "shelter" in if a tornado is near (without declaring the area "tornado safe" – as the design codes in this area are not intended for that). It would be good for the school district's emergency planning to know this information.	There are no code requirer MA to designate a "shelter the school. The school as NOT a designated Emerge Shelter, which would apply whole building, necessitate structural requirements, an significantly increase costs specific zone within the building designed as a "shelte zone".	area" in a whole is ncy to the increased d . Also, no Iding is			
41.	Jeff Lundquist		I was having trouble finding if cages are required on the fire protection in the gymnasium and cafeteria. I trust they are.	Cages will be specified on all lighting and devices in the gym.				
42.	Jeff Lundquist	Plumbing	Plumbing – the amount of rain leaders seems excessive. In some cases I wonder if it will be possible to achieve the required pitch with some of the long runs in the building. Would it be more cost effective to run more of the rain leaders directly to the perimeter?	Roof pitch calcs have been done and rain leaders are designed per code.				
43.	Jeff Lundquist		Could the perimeter drainage system in some areas be eliminated and just use sheet-flow to a catch basin?	As the drainage design is full ayout of the catch basins a become more efficient, but based on the regulations are	and manholes may the current design is			
44.	Jeff Lundquist		I was having trouble finding the wall finishes in the					





Item	SBC Member	DWG/Spec	Design Deve	lopment	60% Constr	uction Documents	90% Cons	struction Documents
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
			custodial closets. We should ensure that they're cement board with FRP, Altro (Whiterock) or another clean water resistant product.	Finishes under review in these areas. Recommendations duly noted.				
45.	Jeff Lundquist	Structural	Structural – please confirm the operating weights of the rooftop equipment were used in the structural calculations in lieu of the "shipping" weights. As simple as this seems, I've seen this missed, causing structural rework.	We confirm that the Structural Engineer has designed for an adequate weight allowance for MEP FP loads.				
46.	Jeff Lundquist		It seems like there is very limited roof piping & ductwork, which may make this a moot point. Please confirm that the structural engineer has considered rooftop ductwork and piping in his structural calculations. (I've seen this missed too)	We confirm that the Structu Engineer has designed for adequate weight allowance FP loads, and will continue coordinate with MEP FP en identify any significant heav loads in early CD phase.	an for MEP to gineers to			
47.	Jeff Lundquist	Structural	Structural – Are we comfortable with piping being hung from joists as some details do show? It can be done, but I've seen joists get compromised. Typically this is a condition we try to avoid, and use wide flanges or channels when we have to hang piping of any decent size.	MEP FP documents will pro supplementary framing mer avoid hanging MEP FP iten deck. Joists are designed t allowance of MEP FP load, distributed by secondary fra Uni-Strut systems. Signific point loads are identified ar case-by-case if needed.	mbers to as from the to take an which is aming or ant heavy			
48.								
49.								
50.								
51.								
52.								

LEGEND: Green shading indicates Design Refinement already underway "ILO" = In Lieu Of

RED = 3/21/2019 OWNER'S COMMENTS/REQUEST FOR VE PRICING

Section 1 Security and extension of second and advantage and that a Security 2000 Section 2 Sect				Fontaine Bros Value (\$)	Design Refinements Underway (\$)		Design Team Suggested Project Alternates	Project Alternates Approved by SBC	Remarks/ Comments
Cold Cold Cold Cold Cold Cold Cold Cold						V E ITOMIO	, incomatos		
Section Sect	1		borrowed lites	·					
Section Sect	2		interior borrowed lites						SecShade 2 & 3
Part of the control o	3								May be required by acoustical needs at east prop line.
Section Sect	4			\$428,400					"
Services of the control of the contr			Value Engineering Suggestions						
Comparison Com									Gravel wetlands not providing benefit to the SW
Company Comp		21 Itams 5 & 15	catch basin type - see attached drawing Retaining Wall: Provide more plain "rusticated" block ILO "rock	, , ,	, í				design Concrete more expensive and invasive with
See Section of the second section of the section of	L01	II / /-/ 1	Provide 4" sloped granite curbing ILO 5" vertical granite - 5,056 LF see	(\$39,009)					
Security of the contract of th	L02	1 2 30	Provice Bituminous side walks ILO concrete at areas not within inner curb	(\$56,736)					
Activation is set to these. Activation is set to these. Activation of the control of the contr	L4.30			(\$67,021)					
Addition of the control of the contr			Structural - no items at this time						
Wighter 4 12 of a common accordant beautiful System (1995)			Architectural, Exterior Items:						
At 11 A 12 is a comment of the part of the			Provide Utility brick ILO standard Modular brick on entire building.	(\$90,585)					Utility Brick = 4" x 4" x 8" nominal.
Act 10 ft or specified of fem PL Pendick of the 10 26 ST Tool developed Social State of the Color Social State of the Colo	A02	$1 A + 1 \Box$		(\$104,720)	(\$104,720)				
Compact Ordering System to IIIP Peril System 193 of the Stand Stand Stan	A03			,					South elevations where A and B wing intersect with C wing.
And After Form Service	A04			(\$5,082)					
Provide Set Face Cittle Foundation of Cert Stone Desc. 1975 248 Set Face 2	A05	Λ/12/Itom Q	Change SF glazing to Brick cladding - 103 SF - see drawings	(\$2,910)					
tem 18 ADD bod rest is a decimal of the personal and government of the personal and the personal and government of governm				(\$76,500)					
Act Community Debug as specified extention mode ups and gow with mission Los Los		Item 18	ADD Roof Hoist	\$48,200					'
Add tent 9 Provide swinging full height fire doors (2) pairs \$4" xx 9" still ILO (\$56 932) (\$66 932) (\$66 932) (\$7 000)		Item 28	Delete specified exterior mock-ups and go with in-place ILO	(\$41,000)					CRAINES - AICH AND CIVI HAVE CONCERNS ON UNIS ILEM.
ACC Acordio nervoe vision library all of Class count doors (I.O hall-glass store library) (See 902) ACC Acordio nervoe vision library all of Class count doors (I.O hall-glass store library) (See 902) ACC Acordio nervoe vision library and doors (I.O hall-glass store library) (See 902) ACC Acordio nervoe vision library and doors (I.O hall-glass store library) (See 902) Budget Modernitor (Sas Go 940) wide ye 200° in glass store vision store vision and support of vision store vision and support of vision and support of vision store vision and store vision and support of vision store vision and support of vision store vision and store vision and support of vision store vision and support of vision store vision and support vision store vision store vision and support vision store vision store vision and support vision store vision and support vision store vision store vision store vision store vision and support vision store vision sto	A04	Item 19	Provide swinging full-height fire doors [(2) pairs @ 4' w x 9' tall] ILO	(\$66 932)					(ROM - TBD Final Design)Prob will be required
Delete cancers shared working of divider curtain to partition. ILL Part of ages short ines shared shared shared shared problems and a shared shared shared problems at this time. Name									
Harm 38 Hard Divider partition II O fabric/mesh curtain as specified sensor edge, STC 49 sensor with all safety sensor adjes, STC 49 teem 27 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing/leconomize design \$0 Stain 5 - Reduce amount or fire rated glazing design amount or fire rated glazing design amount	A06		Delete blackout shades from exterior windows - provide light-filtering fabric shades only						Prob will be required by Police Chief.
Kitchen no items at this time Plumbing Delete drinking fountains in PK ELA # 203A, Kinder ELA #1223A (\$7,020) bubbler fountains in all classrooms - duplicative Mechanical - no items at this time Electrical Either the description of the system and install lightning proventor system (\$80,845) Technology - no items at this time		Item 38	Hard Divider partition ILO fabric/mesh curtain as specified.sensor edge, STC 49						single stack, no pocket, standard vinyl, (1) pass door
Plumbing Pol Delete drinking fountains in PK ELA #1203A. Kinder ELA #1223A (\$7.020) (\$7.020) bubbler fountains in all classrooms duplicative Mechanical - no items at this time Electrical Delete lightning protection system and install lightning preventor system (\$50.845) Technology - no items at this time		ILCIII 27	Stall 5 - Neduce amount of fire-rated glazing/ economize design.	Φ Ο					to be discussed with the Working Group.
Delete drinking fountains in PK ELA #1203A, Kinder ELA #1223A (\$7,020) Mechanical - no items at this time Electrical Delete lightning protection system and install lightning preventor system Technology - no items at this time Technology - no items at this time			Kitchen - no items at this time						
Mechanical - no items at this time Flectrical Delete lightning protection system and install lightning preventor system Technology - no items at this time Technology - no items at this time			Plumbing						
Electrical Delete lightning protection system and install lightning preventor system Technology - no items at this time Technology - no items at this time	P01		Delete drinking fountains in PK ELA #1203A, Kinder ELA #1223A	(\$7,020)	(\$7,020)				bubbler fountains in all classrooms - duplicative
Delete lightning protection system and install lightning preventor system (\$50,845) Technology - no items at this time Technology - no items at this time Technology - no items at this time			Mechanical - no items at this time						
Technology - no items at this time			Electrical						
	E01		Delete lightning protection system and install lightning preventor system	(\$50,845)					EE advises this is usually about a 50% savings.
Subtotals (\$865,305) (\$397,190)			Technology - no items at this time						
			Subtotals	(\$865,305)	(\$397,190)				

Falvey Associates Preconstruction Inspections

15 Clarridge Circle

Milford, Massachusetts 01757 Phone #: (508) 328-8789

Page 1 of 2 Pages

Submitted To: Fontaine Bros., Inc. | Construction Managers _ General Contractors

510 Cottage Street, Springfield, MA 01104 | 12 E. Worcester Street, Worcester, MA 01604

Attn: Mr. Joel Kent

e-mail: jkent@fontainebros.com

Date: March 25, 2019

Phone: C: 781.291.9625 | **T:** 413.781.2020 | **F:** 413.734.1881

Project Location: Northbridge ES project / W. Edward Balmer School

Scope of Work

The estimate is based upon the following:

We hereby submit specifications and estimates for Preconstruction Surveys for a project located at Northbridge ES project / W. Edward Balmer School, Northbridge, MA

- A. Visible pre-existing damage will be documented by use of a video camera with an audio narration describing noticeable cracks, water damage, settlement and other visible existing damage on the floors, walls, ceilings and exterior conditions (Some Photos will be included)
- B. Falvey Associates will notify property owners of an offer of a preconstruction inspection / 3 Attempts will be made
- C. Falvey Associates will schedule preconstruction surveys
- D. Price includes travel, toll fees, parking, material, site inspections and labor
- E. Falvey Associates will secure all video and photography for future use
- F. Any preconstruction surveys or additional areas not listed on this proposal will be charged at customary cost
- G. Falvey Associates will make 2 attempts to offer a survey of the property. If no response after 2 attempts, Falvey Associates will send a certified letter to the property owner
- H. Falvey Associates will edit video and submit a copy to Fontaine Bros., Inc.

I. Survey Includes:

- "Base Bid" Properties at 45-55 Crescent St then up Mason Road from intersection of Crescent starting at 292 through 130 (YELLOW) \$2975 (Certified Notifications – Add \$240)
- "Alternate 1 "– ADD for properties on other side of Mason Road 291, 277, etc. all the way up to 115 (ORANGE) \$1625 (Certified Notifications – Add \$150)

- "Alternate 2" ADD for properties 56, 68 Evergreen Circle at top of map (not sure what road that is) (LIGHT BLUE)
 \$300 (Certified Notifications – Add \$30)
- 4. "Alternate 3" ADD for 236 and **246** North Main (PURPLE \$300 (Certified Notifications Add \$30)

Any and all videotapes will be maintained in a secure place and no individual, corporation or any other entity shall have access to the documents, excepting the property owner, the Insurance Company and any of their agents, attorneys or representatives. However, shall the property owner file a property damage claim or initiate litigation, the document shall become evidence of the condition of the property and the videotapes shall be utilized in defense of said claim. Therefore, experts, agents of the Insurance Company and others shall view the videotapes. Otherwise, the videotapes shall be kept completely confidential.

We propose hereby to furnish material and labor-complete in accordance with above specifications for: Lump Sum \$5200 (Five Thousand Two Hundred Dollars / Includes Certified Notifications)

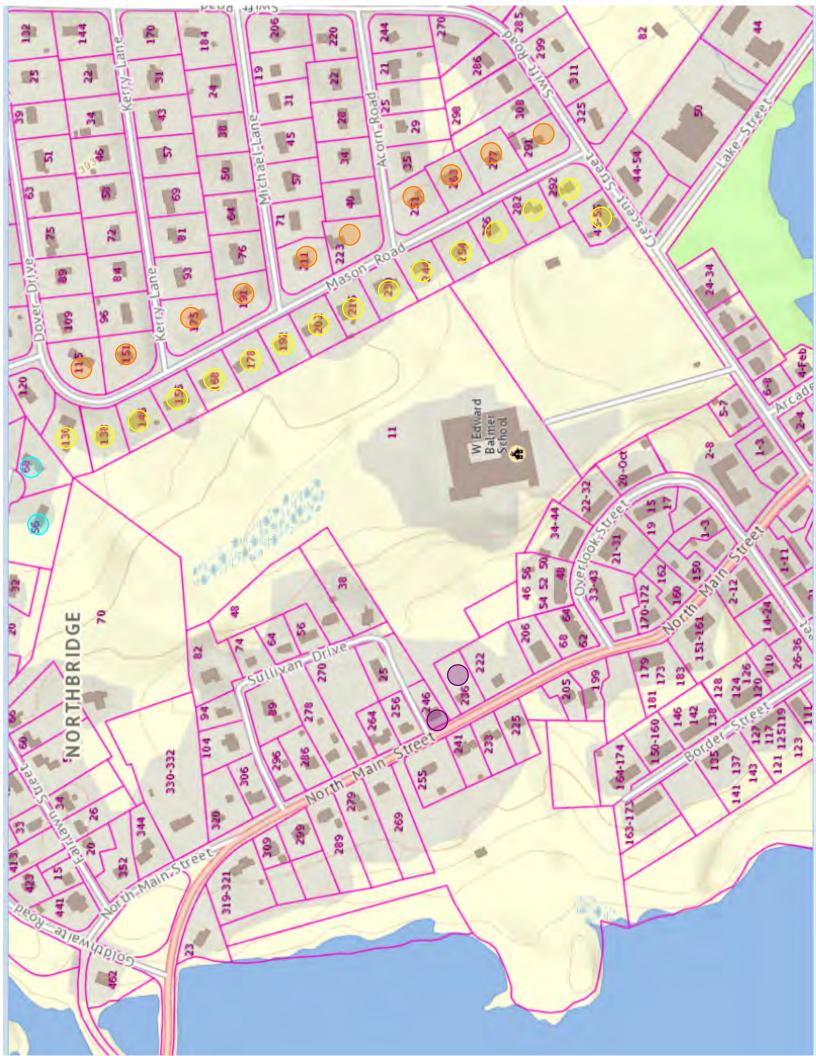
Payment to be made as follows: Upon completion of Preconstruction Surveys

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. All agreements contingent upon strikes, accidents or delays beyond our control. Falvey Associates to carry insurance. Note: This proposal may be withdrawn by us if not accepted within 7 days.

Acceptance of Contract - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do work as specified. Signing of this document constitutes a valid contract. Payment will be made as outlined above.

Authorized Signature: Falvey Associates - David F.	Falvey	
Signature:Date:		
Authorized Signature: Fontaine Bros., Inc. Signature	e:	
Please Print Name:	March	2019.
Please scan and e-mail to: dfalvey50@yahoo.com		
Mail: Falvey Associates		

15 Clarridge Circle Milford, MA 01757



THE NEW W. EDWARD BALMER SCHOOL

NORTHBRIDGE, MASSACHUSETTS



SCHOOL BUILDING COMMITTEE MEETING

APRIL 2, 2019











AGENDA

- DD Progress Report
- Proprietary Materials
- Response to Owner's Comments
- Value Engineering Items



DD PROGRESS REPORT/ **NEXT STEPS**

3/19	SBC reviewed Final DD Estimate
3/20- 4/2	Assemble MSBA DD Submission Binder

3/27-4/3 Finalize DD Drawings and Specifications

SBC Review final DD documents 4/2

Submit Conservation Committee permit package 4/3

4/5 Submit DD document package to MSBA

4/9 Submit Planning permit package

Construction Documents (CD) Phase begins 4/8



PROPRIETARY ITEMS

OFOTION	I ITEMA	L COATION IN PROJECT
SECTION	ITEM	LOCATION IN PROJECT
05 12 00	FERO Anchor Systems – "melt-away" clips that join fire wall to structural steel frame	At fire wall, both sides
08 35 13.23	Folding Fire Separation Doors:	Three (3) fire wall passage
	"Won-Door" Corporation accordion horizontal-acting automatic fire door.	doors, one each level of the building.
	Possible VE/ AHJ/ SBC veto item	
08 63 00	Metal-Framed Skylights – Translucent Panel Skylight: Kalwall or Major Industries (2 options) Structures Unlimited is third mfr. – see note at right	Two skylights, over Stair 5 and Light well adjacent to Media Center
08 71 00	Door Hardware - Lockset Cores and Keys: Schlage "Primus".	All building locksets and locking door hardware



08 80 00	Protective Glazing Assemblies - Insulated Batter-Resistant Glazing: School-Guard "SG-4" OR: 3M S&S Window Films (2 options)	Main entry vestibule, main office windows, and Pre-K Vestibule glazing
08 80 00	Translucent Glazing: "Solera" insulated translucent glazing units, OR "Okalux Plus" insulated translucent glazing units (2 options)	Gymnasium clerestory windows
09 84 30	Sound-Absorbing Wall Units: Direct-attach wall panels: Knauf Ecose and Akusto Texona	Cafeteria, OT/PT rooms, Music Rooms, Library- Media Center, ELAs
09 84 30	Sound-Absorbing Wall Units for High Abuse Locations: Armstrong "Tectum" direct attach panels	Gymnasium walls
10 44 00	Exterior Fire Protection Specialties: "Knox Box" Series 3200 rapid entry system	Front and rear building entrances. Two locations.

PROPRIETARY ITEMS

00.00.40	T-110/11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5 11 11 11 11 11 11 11 11 11 11 11 11 11
23 00 10	BMS/ Mechanical Controls	Building HVAC Controls
	Johnson Controls	
27 20 00	Data Communication System, Network Switches: Aruba 5400 series	At MDF Room.
27 20 00	Data Communication System, VOIP Telephone System: TBD	Throughout the school.
27 20 00	Data Communication System, Wireless Access Points: Aerohive, AP250 and/or AP550.	Throughout the school.
28 10 00	Integrated Access Control/ Intrusion Detection/ Video Surveillance Platform/System: TBD	Throughout the school.



RESPONSE TO OWNER'S COMMENTS

Refer to printed handout in Agenda packet.



RESPONSE TO OWNER'S COMMENTS

ITEMS 4,14: The parking lot islands are required by

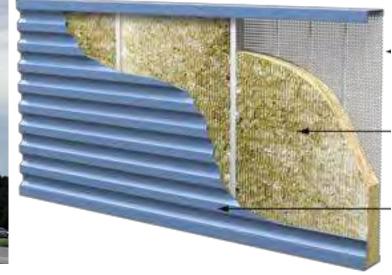
Northbridge Zoning Bylaws.

- "173-27.F Landscaping requirements. All nonresidential parking lots shall be effectively landscaped to reduce the visual impact of glare, headlights and parking lot lights from the public right-of-way and from adjoining properties. In addition, parking lots shall be adequately shaded to reduce the amount of reflected heat.
- 173-27.F.(3) Landscaping in interior areas. Landscaping areas shall be provided for interior parking areas so as to provide visual and climactic relief from broad expanses of pavement and to channelize and define logical areas for pedestrian and vehicle circulation.
- (a) Interior parking areas shall be deemed to be all parking areas.
- (b) At least 5% of the gross area of the interior parking area shall be landscaped. These landscaped areas shall include trees sufficient to provide shading of parking areas.
- (c) Interior landscaped areas shall be dispersed so as to define aisles and limit unbroken rows of parking to a maximum of 100 feet. Landscaping between rows of parking shall be at least eight feet in width."



VE LIST - ALTERNATES





	DWG reference	Alternates (not yet in order of preference)	
1		Add - SecureShades on all relevant exterior windows and interior borrowed lites	\$950,000
2		Add - SecureShades on all relevant 1st Level exterior windows and all interior borrowed lites	\$720,000
3		Add - digital site signage at Crescent St. entrance	\$43,000
4		Add - acoustically absorptive roof screens ILO open louver design at all screens	\$428,400





Rain Guardian—Turret

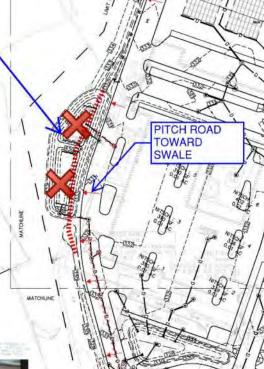
Standard exterior dimensions:

46" x 50" base, 19.5" total height

Turret price:

Fiberglass grate (1,760 lb. concentrated load)—Contact ACD





PITCH ROAD TOWARD SWALE

face" block

VE LIST: C01/ ITEM 14 & 31



USE AN INLET STRUCTURE SIMILAR TO INLET SHOWN IN PICTURE

UJ.UU-Delete west edge gravel wetlands, pitch entry drive to swale, change C01 VE/Item 14 & catch basin type - see attached drawing Retaining Wall: Provide more plain "rusticated" block ILO "rock Items 5 & 15

(\$8,000)

(\$285,450)





VE LIST: ITEM 5 & 15

VE/Item 14 α	catch basin type - see attached drawing	(\$285,450)
Items 5 & 15	Retaining Wall: Provide more plain "rusticated" block ILO "rock face" block	(\$8,000)





VE LIST: L01

L01	L2.2-2.3	Provide 4" sloped granite curbing ILO 5" vertical granite - 5,056 LF see attached drawings	
L02	L2.30	Provice Bituminous side walks ILO concrete at areas not within inner curb line - see drawing	(\$56,736)
L4.30	Item 7	ALL Chainlink and Backstop Fencing galv. ILO vinyl clad	(\$67,021)





VE LIST: L02

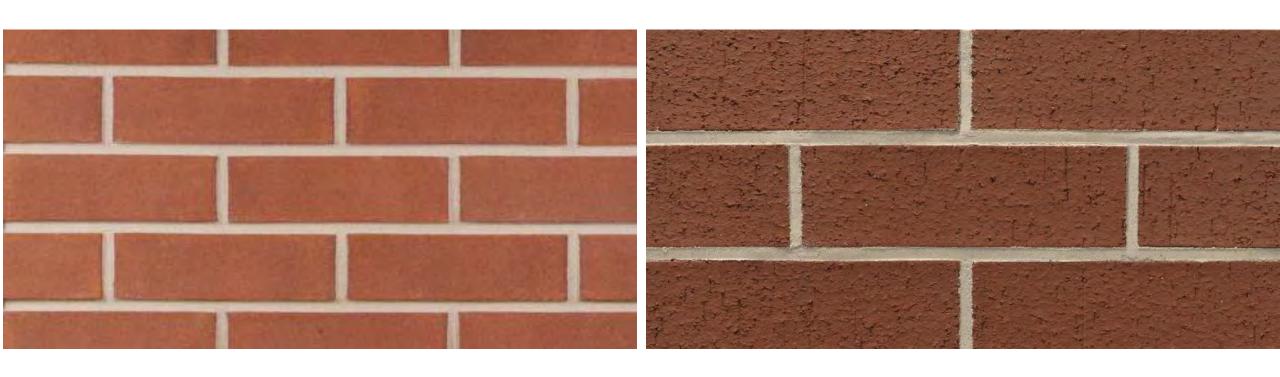
L2.2-2.3 L2.30	attached drawings Provice Bituminous side walks ILO concrete at areas not within inner curb	(\$39,009)
(Item 7	ALL Chainlink and Backstop Fencing galv. ILO vinyl clad	(\$67,021)





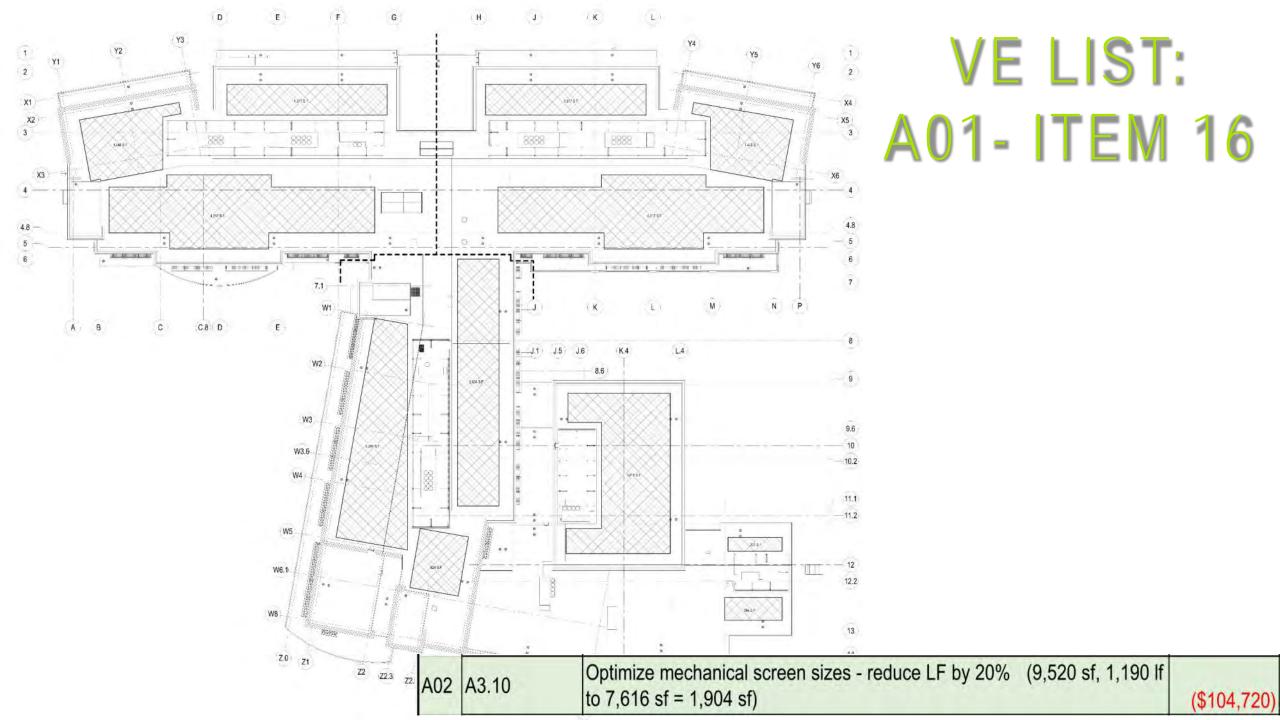
VE LIST: ITEM 7

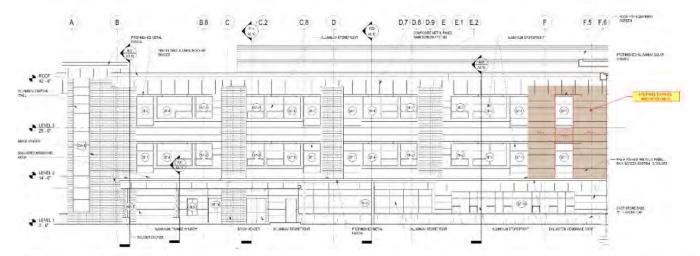
L01	L2.2-2.3	Provide 4" sloped granite curbing ILO 5" vertical granite - 5,056 LF see attached drawings	(\$39,009)
L02	L2.30	Provice Bituminous side walks ILO concrete at areas not within inner curb line - see drawing	(\$56,736)
L4.3	Item 7	ALL Chainlink and Backstop Fencing galv. ILO vinyl clad	(\$67,021)

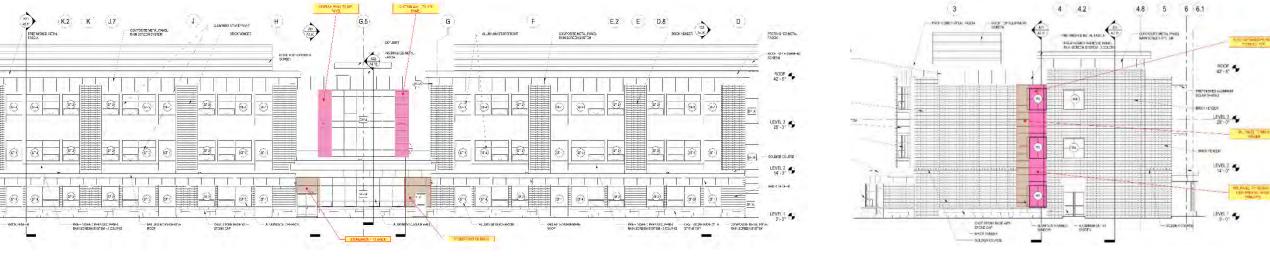


VE LIST: A01 - TEM 16 A01 A4 dwgs / Item 16

Provide Utility brick ILO standard Modular brick on entire building.







VE LIST: A01- ITEM 16

A03	A4.11-13 / Item	Change cladding from HPL Panel to Brick - 1,123 SF - see drawings \$29.84 SF	(\$33,507
		Change CW glazing system to HPL Panel system - 168 SF - see drawings \$30.25 SF	(\$5,082
A05	A4.12 / Item 8	Change SF glazing to Brick cladding - 103 SF - see drawings \$28.25 SF	(\$2,910





"CAST STONE" CMU:

- very weather resistant
- salt-resistant
- suitable for building base
- "Super CMU"



"SPLIT FACE" CMU:

- comparatively porous
- moderately salt-resistant
- not best choice for building base
- ground contact not advised



VE LIST: ITEM 17

Item 17

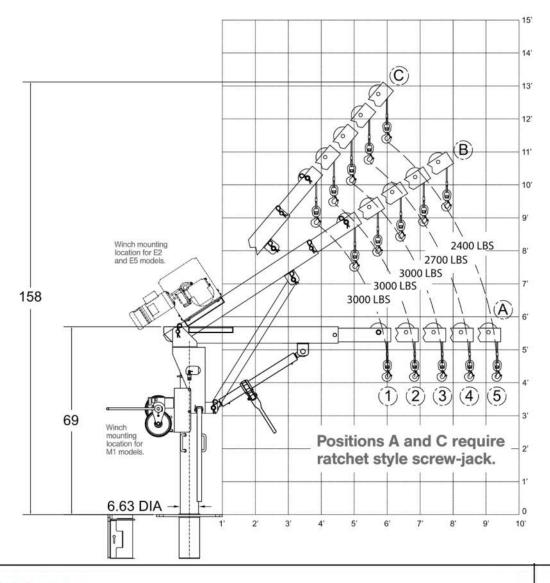
Provide Split Face CMU in lieu of Cast Stone Base

5PT30

ADMIRAL

VE LIST: ITEM 18





Item 18

ADD Roof Hoist

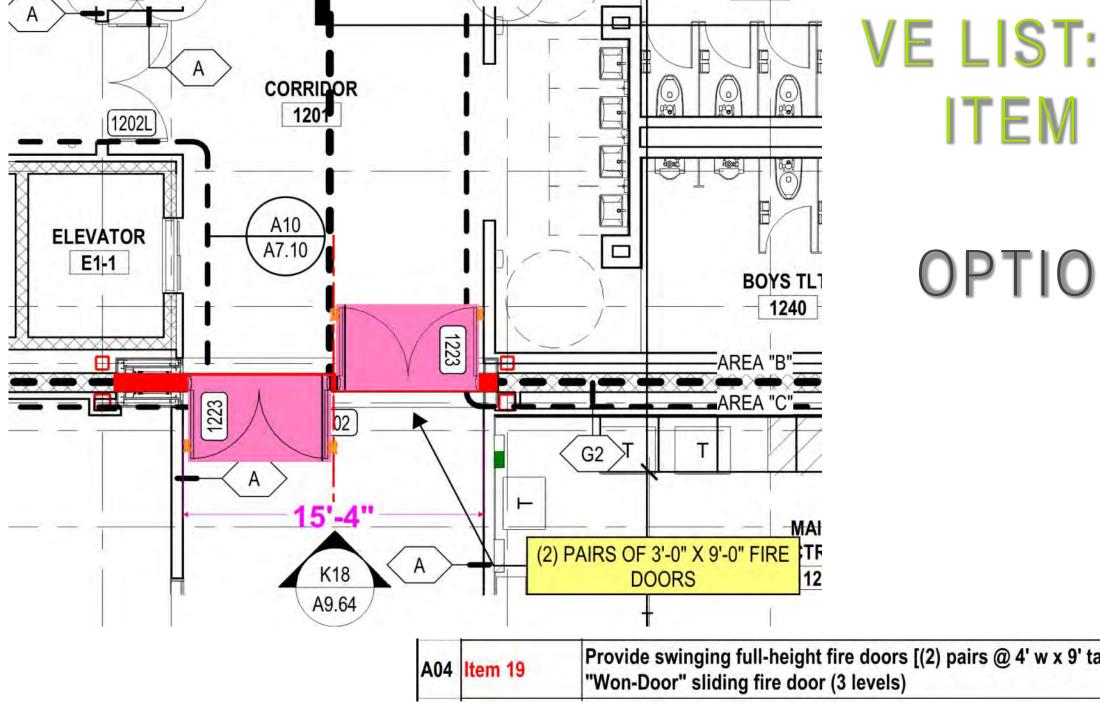
VE LIST: ITEM 28







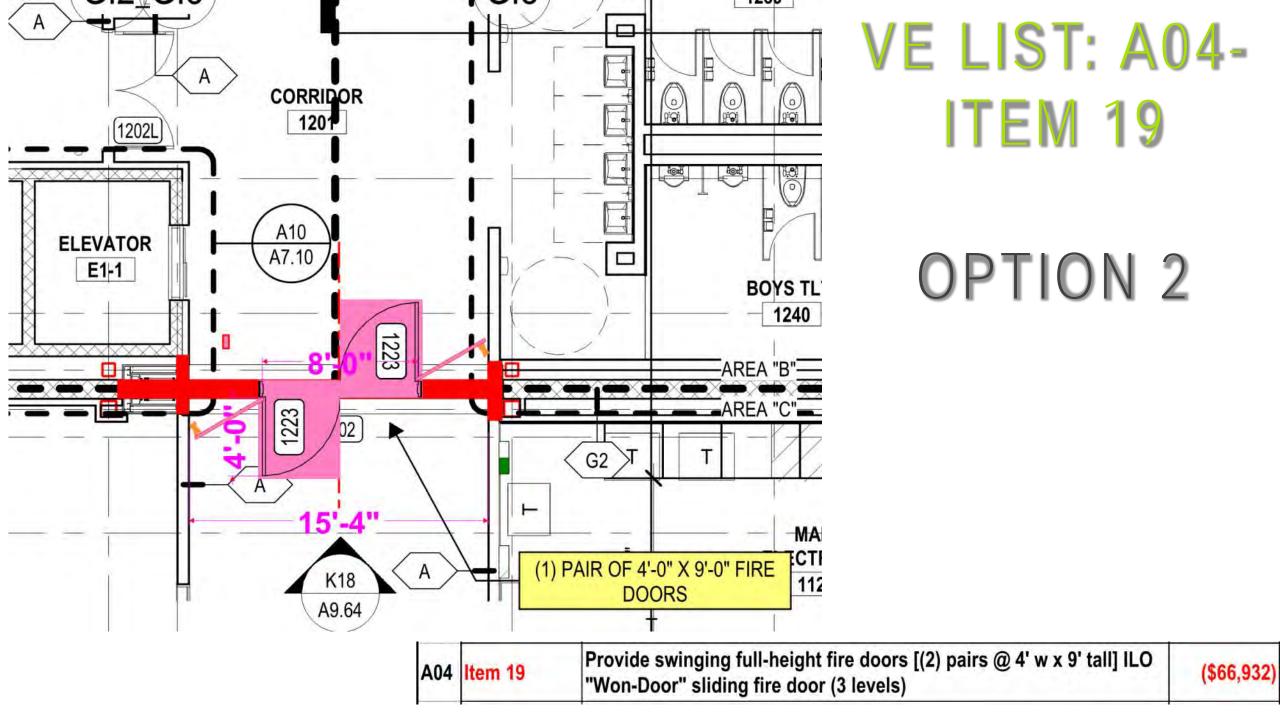




VE LIST: A04-

OPTION 1

Provide swinging full-height fire doors [(2) pairs @ 4' w x 9' tall] ILO



VE LIST: A05





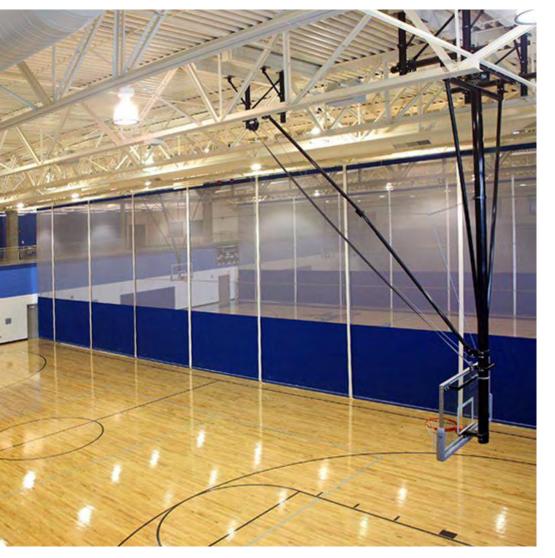


VE LIST: A06



A06 Delete blackout shades from exterior windows - provide light-filtering fabric shades only

(\$22,100)



VE LIST: ITEM 38



Item 38

A1.13 – "change wording of divider curtain to partition", i.e. Provide Hard Divider partition ILO fabric/mesh curtain as specified.sensor edge, STC 49

\$60,844

ESTIMATED CONSTRUCTION COST COMPARISON

	SD PHASE		DD PHASE	
	(FONTAINE BROS., INC.)	PM&C COST ESTIMATORS	FONTAINE BROS. INC. (CM)	
AREA (GSF)	167,352	167,352	167,352	
BUILDING	\$47,191,265	\$50,673,892	\$50,767,822	
SITE WORK & DEMO	\$10,956,995	\$12,104,861	\$12,554,970	
MARK-UPS	\$21,344,403	\$16,073,239	\$16,157,650	
TOTAL	\$79,492,663	\$78,851,992	\$79,480,442	
Unit Cost (\$/SF)	\$475	\$471	\$475	



