

PROJECT MINUTES

Project:	New Peebles Elementary School	Project No.:	15041
Prepared by:	Joel Seeley	Meeting Date:	2/2/2017
Re:	School Building Committee Meeting	Meeting No:	33
Location:	Bourne Veteran's Memorial Community Center	Time:	6:30pm
Distribution:	School Building Committee Members, Attendees (MF)		

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	James L. Potter	Chairman, School Building Committee	Voting Member
✓	Peter J. Meier	Board of Selectmen	Voting Member
	Christopher Hyldburg	Chairman, School Committee	Voting Member
✓	Natasha Scarpato	Member, School Committee	Voting Member
✓	Donna Buckley	Member at Large	Voting Member
	Richard A. Lavoie	Finance Committee	Voting Member
✓	William Meier	Building Trade Expert	Voting Member
		Member at Large	Voting Member
✓	Frederick H. Howe	Board of Health, Vice-Chairman School Building Committee	Voting Member
✓	Steven M. Lamarche	Superintendent of Schools, BPS	Voting Member
✓	Edward S. Donoghue	Director of Business Services, BPS	Non-Voting Member
	Thomas M. Guerino	Town Administrator	Non-Voting Member
		Local Official Responsible for Building Maintenance	Non-Voting Member
✓	Elizabeth A. Carpenito	Principal, BES	Non-Voting Member
✓	Kathy Anderson	Elementary/Special Education Secretary	Non-Voting Member
	Janey Norton	Principal, PES	
✓	Kent Kovacs	FAI, Architect	
✓	Bill Beatrice	FAI, Architect	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
33.1	Record	Call to Order, 6:30 PM, meeting opened.
33.2	Record	A motion was made by P. Meier and seconded by F. Howe to approve the 1/5/2017 School Building Committee meeting minutes. No discussion, motion passed unanimous by those attending.
33.3	Record	A motion was made by P. Meier and seconded by F. Howe to approve the 1/19/2017 School Building Committee meeting minutes. No discussion, motion passed unanimous by those attending.
33.4	Record	J. Seeley distributed and reviewed the Updated Detailed Project Schedule, attached.
33.5	K. Kovacs	<p>K. Kovacs distributed and reviewed the Updated Listing of Recently Constructed Schools, attached, with addresses, that represent the materials and concepts shown for the project, Interior and Exterior.</p> <p>K. Kovacs will coordinate a tour of a few schools in May or June that represent the Interior Materials.</p> <p>Committee members to visit the schools representing the Exterior Materials at their discretion.</p>
33.6	K. Kovacs District	J. Seeley distributed and reviewed the Educational Meetings Action Items Log, attached, tracking open issues from the Educational Leadership Meetings, as of the 1/5/17 meeting. K. Kovacs and the District to resolve and record the open items.
33.7	K. Kovacs	K. Kovacs summarized the recent Educational Leadership meetings for Site Design and Food Service Design. K. Kovacs to issue meeting minutes for the meetings.
33.8	K. Kovacs	<p>K. Kovacs distributed and reviewed the MEP and Technology Design Diagrams, attached, summarizing the MEP Facilities Meeting. K. Kovacs to issue meeting minutes of the meeting.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. P. Meier asked if opening the operable windows in the classrooms will negatively affect the HVAC system? <i>K. Kovacs indicated no, the building code restricts the windows to a maximum 4" opening.</i> 2. D. Buckley asked if the classroom corridors will have a displacement ventilation system? <i>K. Kovacs indicated no, the corridors are internal spaces with no exterior wall heat gain, but will be indirectly conditioned from the classroom systems.</i> 3. J. Potter asked if all the LED TVs, short-throw and standard projectors can receive and project cable television? <i>K. Kovacs to review and provide direction to the Committee.</i> 4. D. Buckley asked if all (3) LED TVs are needed? <i>S. Lamarche indicated at this time the Committee should plan for the (3) units, if during later stages of design, the Committee determines they are all not needed, they can be addressed then.</i>

Item #	Action	Discussion
		<p>5. J. Potter asked what the facing material is on the gymnasium side of the operable partition? <i>K. Kovacs to review and provide direction to the Committee.</i></p> <p>6. W. Meier asked how will the standard projector in the Gymnasium be protected from damage? <i>K. Kovacs indicated the projector is on a retractable lift, and he will provide the Committee a cut sheet on the device for review.</i></p> <p>7. N. Scarpato asked if the plumbing fixtures are electronic? <i>K. Kovacs indicated yes, they are the re-chargeable battery operated type.</i></p> <p>8. J. Potter asked if the Plumbing Engineer was aware of the recent water quality testing performed by the school administration. <i>S. Lamarche indicated yes, the water quality testing was reviewed with the engineers at the MEP Facilities Meeting.</i></p>
33.9	K. Kovacs	<p>K. Kovacs indicated the Acoustical Consultant has determined that an operable partition is required only on the Gymnasium side of the Stage. K. Kovacs to review with the Educational Leadership Committee the function of the Stage as a teaching space.</p> <p>K. Kovacs will provide a listing of schools where LVT has been installed, and information on durability and warranty for the next Committee meeting.</p> <p>K. Kovacs will provide options to the plastic laminate clad wainscot panel, possibly an Acrovyn-type product, for the next Committee meeting.</p>
33.10	Record	K. Kovacs distributed and reviewed the updated LEED Scorecard, attached.
33.11	K. Kovacs	<p>K. Kovacs distributed and reviewed a study for student locker heights, attached. The locker width is 12" and the depth is 15". K. Kovacs will provide a physical mock-up of each configuration for the Educational Leadership Committee to review.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> J. Potter asked if the lockers are metal? <i>K. Kovacs indicated yes, the lockers are painted metal.</i> S. Lamarche asked if the 5th grade can have the 36' high units and the 3rd and 4th grades have the lower height units, and stay within budget? <i>K. Kovacs will review and provide direction.</i>
33.12	K. Kovacs	<p>K. Kovacs distributed and reviewed the Phase 1 and Phase 2 Construction Phasing Diagram, attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> K. Kovacs will define the Summer 2019 Construction Phase work. K. Kovacs will update the diagrams to include a larger view of the surrounding site.
33.13	J. Potter P. Meier J. Seeley	<p>Old or New Business:</p> <ol style="list-style-type: none"> J. Potter indicated he contacted the Town Moderator, who has not received the applications from the four residents who expressed interest in filling the Member-at-Large vacancy.

Project: New Peebles Elementary School

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Item #	Action	Discussion
		2. J, Seeley indicated he contacted MSBA regarding the request to change the Local Official Responsible for Building Maintenance vacancy to a Member-at-Large position. The MSBA indicated the position is intended to be filled by a person with knowledge of facilities design and maintenance so as to provide the Committee that expertise. P. Meier will provide an update for the next Committee meeting.
33.14	Record	Next SBC Meeting: February 16, 2017 at 6:30 pm at the Bourne Veteran's Memorial Community Center.
33.15	Record	A Motion was made by P. Meier and seconded by F. Howe to adjourn the meeting. No discussion, voted unanimously.

Attachments: Agenda, Updated Detailed Project Schedule, Updated Listing of Recently Constructed Schools, Educational Meetings Action Items Log, 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: Peebles Elementary School Feasibility Study Project No.: 15041
 Prepared by: Joel Seeley Meeting Date: 2/2/2017
 Re: School Building Committee Meeting Meeting No: 33
 Location: Veterans Memorial Community Center Time: 6:30pm

Distribution: Attendees, (MF)

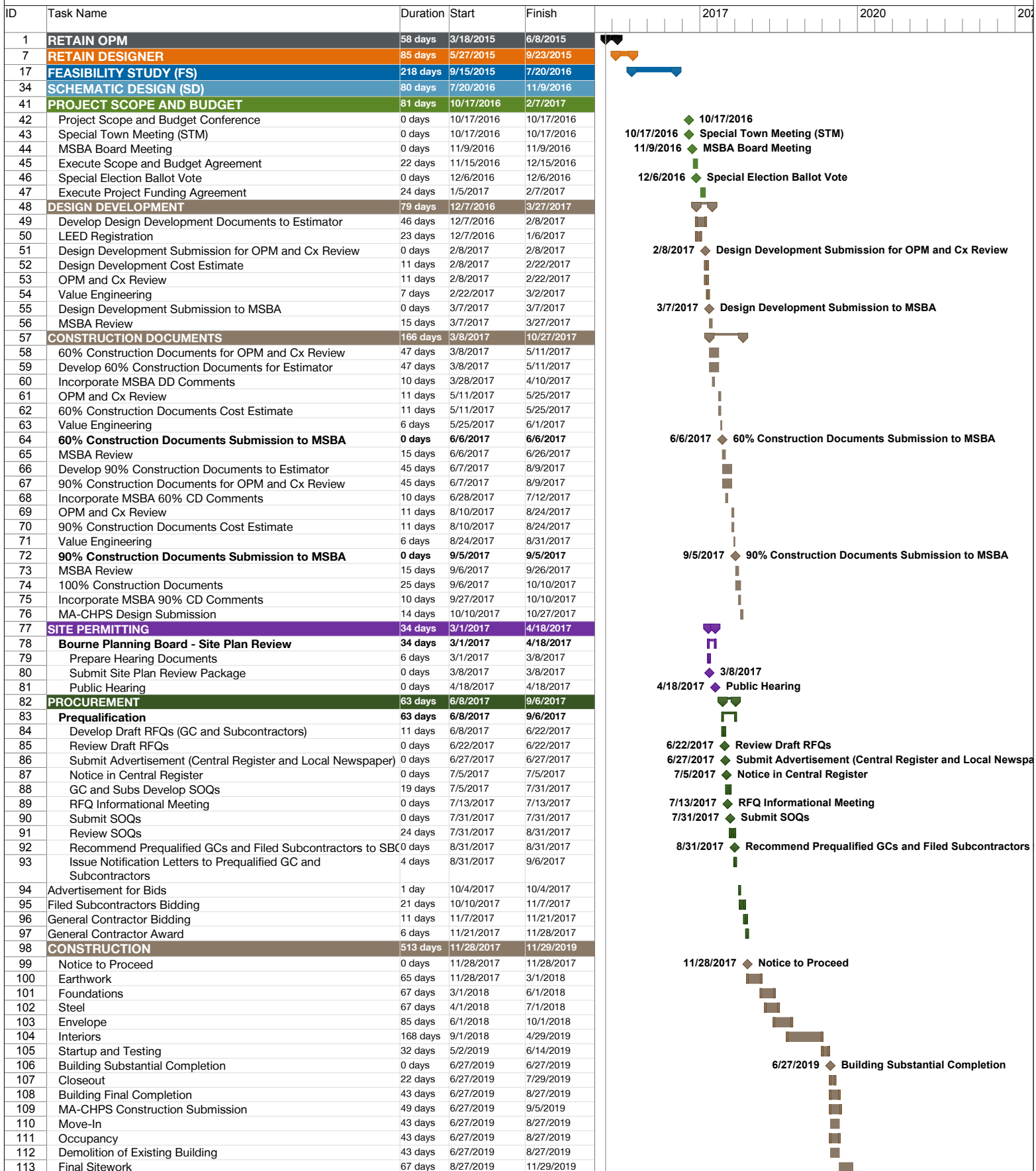
SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	James L. Potter	onsetjp@juno.com	Chairman, School Building Committee
	Peter J. Meier	pmeier@townofbourne.com	Bourne Board of Selectmen
	Christopher Hyldborg	chrish@alpha-1.com	Chairman, Bourne School Committee
	Natasha Scarpato	scarpato4@comcast.net	Bourne School Committee
	Donna Buckley	d.j.buckley23@gmail.com	Member-At-Large
	Richard A. Lavoie	Richl.Lavoie@gmail.com	Member, Bourne Finance Committee
	William Meier	Dusty22752@aol.com	Building Trade Expert
	Frederick H. Howe	rickhowe9@gmail.com	Member-At-Large
	Steven M. Lamarche	slamarche@bourneps.org	Member-At-Large, Board of Health
	Edward S. Donoghue	EDonoghue@bourneps.org	Superintendent of Schools, BPS
	Thomas M. Guerino	tguerino@townofbourne.com	Director of Business Services, BPS, MCPPO
	Elizabeth A. Carpenito	ecarpenito@bourneps.org	Town Administrator
	Kathy Anderson	kanderson@bourneps.org	Director of Facilities, Town of Bourne
	Janey Norton	jnorton@bourneps.org	Principal, BES
	Kent Kovacs	kkovacs@flansburgh.com	Elementary/Special Education Secretary
	Betsy Farrell Garcia	bgarcia@flansburgh.com	Principal, PES
	Joel Seeley	jseeley@smma.com	Flansburgh Architects
	BILL BEATRICE	BBEATRICE@FLANS...	FLANSBURGH ARCH.

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AGENDA

Project:	New Pebbles Elementary School	Project No.:	15041
Re:	School Building Committee Meeting	Meeting Date:	2/2/2017
Meeting Location:	Veterans Memorial Community Center	Meeting Time:	6:30 PM
Prepared by:	Joel Seeley	Meeting No.:	34
Distribution:	Committee Members (MF)		

1. Call to Order
2. Approval of Minutes: January 5, 2017 and January 19, 2017 School Building Committee Meetings
3. Approval of Invoices and Commitments
4. Review Updated Site and Floor Plans
5. Review MEP Systems
6. Review LEED Scorecard and Preliminary Energy Model
7. Review Construction Logistics
8. Old or New Business
9. Public Comments
10. Next Meeting: February 16, 2017
11. Adjourn



Date		Meeting Comment	Party	Resolution
December 14, 2016 Meeting				
1	12/14/2016	Nurse: The nurse requested a dedicated icemaker. This item will require a decision by the District.	District	
2	12/14/2016	Music: It was requested after further review to change one practice room into a music office. FAI stated this request would need to be confirmed at the January 5th Academic Leadership team meeting.	FAI	
3	12/14/2016	Art: It was requested that a minimum of three sinks to be provided with plaster traps.	FAI	
4	12/14/2016	Art: A request was made to incorporate a singular peninsula configuration similar to the Bournedale art room for greater access to sinks. FAI to review.	FAI	
5	12/14/2016	Art: Student work display areas should be studied both inside the art room and hallway areas. FAI to review.	FAI	
6	12/14/2016	Art: An office was requested beyond the already submitted MSBA space template. FAI explained the size of the art room and storage may reduce in size to accommodate this request would be discussed at the January 5th Academic Leadership team meeting.	FAI	
7	12/14/2016	Library: A workroom and office should be incorporated into the overall layout. The workroom will require a sink. The main circulation desk does not need to be adjacent to the workroom and office.	FAI	

Date		Meeting Comment	Party	Resolution
8	12/14/2016	Library: The main circulation desk should have high counter portion "check-out" with a lower section at standard desk height. A book return area should be incorporated into the desk. District to confirm if a book return slot is required between the hallway and the media center.	District	
9	12/14/2016	Library: Fixed bookcases along the perimeter walls with mobile bookcases in the open areas can optimize flexibility. The District should provide FAI with anticipated book volume count to assist in planning bookcases and any required media storage area.	District	
10	12/14/2016	Grade 3: An exterior door was requested from the team room directly to the outdoor garden area. FAI stated this could be accommodated.	FAI	
11	12/14/2016	Grade 3: It was requested that connecting doors located between classrooms. FAI stated connecting doors were part of the project in the last phase and removed due to cost. This request will be discussed at the January 5th Academic Leadership team meeting.	FAI	
12	12/14/2016	Grade 4: It was requested an additional teacher's toilets be located closer to the 4th grade. After review of the plan, one additional teacher's toilet can be incorporated on the second floor. This provides a total of 2 singular staff toilets on the first floor adjacent to the staff workroom, 2 singular staff toilets on the first floor within the administration suite, and 3 singular staff toilets on the second floor.	FAI	
December 15, 2016 Meeting				
1	12/15/2016	Physical Education: A water fountain was requested within the gym space. FAI stated this item will be incorporated.	FAI	

Date	Meeting Comment	Party	Resolution
2 12/15/2016	Physical Education: The gym instructor liked the idea of having moveable bleachers for flexibility. FAI to study further.	FAI	
3 12/15/2016	Physical Education: An office was requested beyond the already submitted MSBA space template. FAI explained the size of storage area will be reduced in size to accommodate and this request will be discussed at the January 5th Academic Leadership team meeting.	FAI	
4 12/15/2016	Physical Education: A request for a toilet and shower may be accommodated in the nearby custodial/kitchen area for shared use. FAI stated this request would need to be confirmed at the January 5th Academic Leadership team meeting.	FAI	
5 12/15/2016	Physical Education: The gym instructor was concerned outdoor play area and lawn would be limited to the new construction of the school. FAI stated during construction, the area in front of the existing Peebles (grass area currently used for PE) would be utilized by the contractor. After the final site work phase, there will be lawn area adjacent to the new tennis court. The instructor asked if a stone dust walking/jogging path could be created. FAI to review.	FAI	
6 12/15/2016	Administration: It was mentioned that an additional office would be required to support the administration team for a desired total of five offices. We discussed reducing the conference rooms to accommodate the request. FAI stated this request would need to be confirmed at the January 5th Academic Leadership team meeting.	FAI	
7 12/15/2016	Administration: Storage strategies were discussed with options for both storage rooms for records and general hallway closets to accommodate office material. FAI to review.	FAI	

Date	Meeting Comment	Party	Resolution
8 12/15/2016	Administration: The mail/copy area was discussed with opportunities for a kitchenette as well as a work surface area for assembling documents. FAI to study this area further.	FAI	
9 12/15/2016	Middle School (5th Grade): Connecting doors were requested. FAI stated this request would need to be confirmed at the January 5th Academic Leadership team meeting.	FAI	
10 12/15/2016	Middle School (5th Grade): Teachers asked if fixed desktop computers are planned for each classroom. FAI stated they are not and student use within the classrooms would be laptop or tablet based. District to confirm hardwired fixed desktops computers are not required within the classroom for student use.	District	
11 12/15/2016	Middle School (5th Grade): It was noted that a dedicated space to accommodate two small buses supporting students with needs should be provided. FAI to study location.	FAI	
12 12/15/2016	Computer: The floor plans were reviewed and designed computer areas discussed. There are limited fixed desktop machines in the iStudio (3-4 total) and in the Media Center (10-12 total). The classroom zone of the Media Center may be laptop or tablet based to accommodate 24 students. District to confirm hardwired fixed desktops computer locations.	FAI	
13 12/15/2016	Innovation Studio: There was a request for an additional open shelving wall that could be concealed with sliding marker boards fixed to the front. FAI will review the request with the furniture consultant.	FAI	
14 12/15/2016	Innovation Studio: The ceiling will remain open to provide the opportunity to hang objects/devices from structure above. The exposed deck and any ductwork will be painted a dark color. Color to be determined. FAI request the District decide if the adjoining art room shall have an exposed ceiling for consistency.	FAI	

Date	Meeting Comment	Party	Resolution
15 12/15/2016	<p>Innovation Studio: Anticipated equipment is as follows: 3D-printer, laser cutting, 3 to 4 fixed computer stations serving equipment. Computers required hard connection to equipment. FAI to review with Technology consultant. District to confirm list of equipment to assist in mechanical ventilation requirements of space.</p>	FAI	
16 12/15/2016	<p>Custodians & Cafeteria: Site Related Items - The existing Peebles does not have a dumpster or compactor. All trash is collected in 50 gallon barrels, stored then loaded into a pickup truck. There may be a garbage truck in the future with the capacity to empty a dumpster. The project will be designed with the loading dock. A dock lift was requested to bring barrels and other materials down to the driveway elevation. FAI stated this is costly and not in the budget. The custodians requested a walking path that would connect the loading dock with the driveway. A dock leveler was also requested that is not currently in to budget. the custodians stated a loading plate would satisfy this need in lieu of a dock leveler. The District should provide the desired dumpster or compactor specifications to assist in designing the loading dock and any power requirements for the compactor.</p>	District	
17 12/15/2016	<p>Custodians & Cafeteria: Site Related Items - The custodians requested a stone dust drive connecting the middle school to the existing storage shed. FAI to evaluate if this connection is possible.</p>	FAI	
18 12/15/2016	<p>Custodians & Cafeteria: Building-Related Items - It was requested that a 4'-0" chase with a full man-door be provided in between the gang toilets. FAI stated this is not a possibility due to space limitations. Access panels will be provided along the chase wall. FAI to follow up with GGD on location and size.</p>	FAI	
19 12/15/2016	<p>Custodians & Cafeteria: Building-Related Items - One larger continuous sink per gang toilet was requested in lieu of 2 individual sinks in each gang toilet. FAI to follow up with GGD on this item.</p>	FAI	
20 12/15/2016	<p>Custodians & Cafeteria: Building-Related Items - It was requested light fixtures in the egress stairs shall be wall mounted sconces for ease of access in lieu of "hard to reach" ceiling fixtures. FAI to follow up with GGD.</p>	FAI	

Date		Meeting Comment	Party	Resolution
21	12/15/2016	Custodians & Cafeteria: Building-Related Items - FAI asked if the Boston Food Bank space, currently in the existing Peebles, should be accomodated into the new layout. The District should confirm if this space is required.	District	
22	12/15/2016	Custodians & Cafeteria: Building-Related Items - A student tray and dish window was requested from the main cafeteria. The District should confirm if trays and dishware will continue to be used by students or if disposable type is planned for the future. A future meeting with the kitchen director is required.	District	
23	12/15/2016	Custodians & Cafeteria: Building-Related Items - There was a request for a singular shower, toilets, and washer/dryer to be shared between custodial, kitchen and gym instructor. FAI stated this request would need to be confirmed at the January 5th Academic Leadership team meeting.	FAI	
24	12/15/2016	Custodians & Cafeteria: Building-Related Items - A request for electric hand dryers in the gang toilets was requested. This would be total of 8 electric hand dryers. Paper towels can be used in the singular staff and SPED toilets. District to confirm this request.	FAI	
25	12/15/2016	Custodians & Cafeteria: Building-Related Items - There was a request to incorporate floor drains at all gang toilets. FAI to review the request.	FAI	
January 5, 2017 Meeting				
1	1/5/2017	Gymnasium: The gym instructor like the idea of having moveable bleachers for flexibility. The District stated the target bleacher seat count should be 200. Students can be seated on the floor surface during an all student assembly. The group asked if the bleachers could be justified to one side only to maximize useable space on the opposing side. FAI to study bleacher configurations, both fixed and moveable.	FAI	
2	1/5/2017	Cafeteria: A requested student tray and dish window from the 12/15/2016 meeting was discussed. The District should confirm if trays and dishware will continue to be used by students or if disposable type is planned for the future. A future meeting with the kitchen director is required.	District	

Date		Meeting Comment	Party	Resolution
3	1/5/2017	Cafeteria: The requested shower, toilets, and washer/dryer from the 12/15/2016 meeting were discussed. This was acceptable by the group. FAI to study arrangement.	FAI	
4	1/5/2017	Academic Wings: The group discussed the connecting doors requested at 12/14/2016 and 12/15/2017 meetings. The leadership team decided the doors should be incorporated into the project. FAI stated this item to be discussed at the January 5th SBC meeting.	FAI	

School Building Committee Meeting

Feb.02, 2017

Peebles Elementary School Design Development



PROJECT MANAGEMENT **SMMA**
Massachusetts School Building Authority

Flansburgh Architects

MSBA material precedents

**Exterior Materials
MSBA Precedents**

District	School	Enrollment	Exterior Materials	Comments	Address
Adams-Cheshire	Hoosac Valley HS	805	Precast, composite metal panel	Addition / Renov	125 Savoy Rd, Cheshire, MA 01225
Concord Carlisle	Concord Carlisle HS	1225	Brick, composite metal panel	New HS	500 Walden St, Concord, MA 01742
Danvers	Danvers HS	1000	Brick, precast, composte metal panel	Addition / Renov	60 Cabot Rd, Danvers, MA 09123
Dracut	Dracut HS	1160	Brick, CMU, stucco	Addition / Renov	1540 Lakeview Ave, Dracut, MA 01826
Hanover - Hanover High	Hanover HS	800	Brick, terra cotta	New HS	287 Cedar St, Hanover, MA 02339
Leominster	Leominster HS	1825	Brick, composite metal panel	Addition / Renov	122 Granite St, Leominster, MA 01453
Maynard	Maynard HS	410	Brick/cast stone, metal panel, stone rainscreen	New HS	1 Tiger Sr, Maynard, MA 01754
Medford	Medford HS	1305	Brick, precast	roof, systems, and interior renovations	489 Winthrop St, Medford, MA 02155
Methuen	Methuen HS	2075	CMU, composite metal panel	Addition / Renov	1 Ranger Rd, Methuen, MA 01844
Norfolk	Freeman Kennedy Elem	585	Cast stone, metal panel	New ES	70 Boardman St, Norfolk, MA 02056
Norton	Norton HS	700	CMU, stucco	Addition / Renov	66 W Main St, Norton, MA 02766
Rockland	John W Rogers MS/HS	1525	Brick, composite metal panel	New MS/Reno of HS	100 Taunton Ave, Rockland, MA 02370
Sutton	Sutton MS/HS	840	Brick, metal panel, wood resin panel	Addition / Renov	383 Boston Rd, Sutton, MA 01590
West Bridgewater	West Bridgewater MSHS	625	Brick, Zinc metal panel,	New MS/HS	155 W Center St, 02379
Wellesley	Wellesely HS	1600	Brick, composite metal panel	New HS	50 Rice St, Wellesley Hills, MA 02481
Wilmington	Wilmington HS	960	Brick, precast, metal spandrel panel	New HS	159 Church St, Wilmington, MA 01887
Andover	Bancroft ES	680	Brick, composte resin panel	new ES	15 Bancroft Rd, Andover, MA 01810
Auburn	Auburn MS	560	Brick, precast, metal cornice	new MS	5 West St, Auburn, MA 01501
Belmont	Wellington ES	575	Brick, wood	new ES	121 Orchard St, Belmont, MA 02478
Beverly	Beverly HS	1200	Brick, precast, stucco	new HS	100 Sohier Rd, Beverly, MA 01915
Billerica	Parker ES	500	Brick, composite metal panel	new ES	52 River St, Billerica, MA 01821
Berlin-Boylston	Tahanto Regional MS/HS	560	CMU, zinc, wood, slate / ceramic tile rainscreen	new MS/HS	1001 Main St, Boylston, MA 01505
Lexington	Joseph Estabrook ES	540	CMU, composite metal panel, stone accent	new ES	117 Grove St, Lexington, MA 02420
Lynn	Thurgood Marshall MS	1100	Brick, composite metal panel	new HS	100 Brookline St, Lynn, MA 01902
Newton	A E Angier	465	Brick, composite metal panel, stone accent	new ES	1697 Beacon St, Waban, MA 02468
Shrewsbury	Sherwood MS	900	Composite metal panel	new MS	28 Sherwood Ave, Shrewsbury, MA 01545
Southbridge	Southbridge MS/HS	1050	CMU, brick, composite metal panel	new MS/HS	132 Tory Rd, Southbridge, MA 01550
Stoneham	Stoneham MS	775	Brick, composite metal panel	Addition / Renov	101 Central St, Stoneham, MA 02180
Taunton	Parker MS/HS	2540	Brick	Addition / Renov	50 Williams St, Taunton, MA 02780
Uxbridge	Uxbridge HS	600	Brick, CMU, composite metal panel	new HS	300 Quaker Hwy, Uxbridge, MA 01569
Wakefield	Galvin MS	1070	Brick, composite metal panel	new MS	525 Main St, Wakefield, MA 01880
Wayland	Wayland HS	900	Brick, zinc metal panel	new HS	264 Old CT Path, Wayland, MA 01778
Weston	Field Elem	355	Brick, composite resin panel, wood	new ES	16 Alphabet Ln, Weston, MA 02493
Winthrop	Winthrop MS/HS	970	Brick, composite metal panel	new MS/HS	60 Payson St, Winthrop, MA 02152
Winchester	Winchester HS	1370	Brick, cast stone	Addition / Renov	80 Skillings Rd, Winchester, MA 01890
Grafton	Memorial Sr. HS	900	Brick, metal mesh panel, composite mtl panel	new HS	24 Providence Rd, Grafton, MA 01519

**Interior Materials
MSBA Precedents**

Peebles Elementary School
Bourne, MA
Flansburgh Architects | SMMA

District	School	Enrollment	Interior Materials	Comments	Address
Andover	Bancroft ES	680	VCT, carpet, porcelain tile, terrazzo stairs, ceramic wainscot, ACT	New ES	15 Bancroft Rd, Andover 01810
Athol-Royalston	Riverbend ES	545	VCT, carpet, linoleum, ptd CMU, acoustical panels, ceramic wall tile, ACT	New ES	174 Riverbend St, Athol 01331
Auburn	Auburn MS	560	Ceramic tile, linoleum, carpet, wall panels, ACT	New MS	5 West St, Auburn 01501
Belmont	Roger Wellington ES	575	Stained concrete, VCT, carpet, tectum, painted GWB, ACT	New ES	121 Orchard St, Belmont 02478
Billerica	Parker ES	500	VCT, carpet, porcelain tile, CMU, ACT	new ES	52 River St, Billerica, MA 01821
Douglas	Douglas ES	552	Linoleum, floor & wall tile, painted conc., painted GWB, ACT	New ES	19 Davis St, Douglas 01516
Georgetown	Penn Brook ES	770	VCT, carpet, ceramic wall tile, painted GWB, ACT	New ES	68 Elm St, Georgetown 01833
Gloucester	West Parish ES	355	Poured epoxy, carpet, polished conc., ceramic wainscot, polished CMU, ACT	New ES	62 Prospect St, Gloucester 01930
Milford	Woodland ES	985	VCT, carpet, ceramic wall tile, painted GWB, ACT	New ES	10 N Vine St, Milford 01757
Newton	A E Angier	465	Linoleum, carpet tile, floor & wall tile, wood paneling, painted GWB, ACT	New ES	1697 Beacon St, Waban, MA 02468
Norfolk	Freeman-Kennedy ES	585	VCT, PLAM wainscot, painted GWB, carpet tile, ACT	New ES	70 Boardman St, Norfolk 02056
Sutton	Sutton MS/HS	840	Rubber tile, porcelain tile, PLAM wainscot, painted GWB, carpet tile, ACT	Addition / Renov	383 Boston Rd, Sutton 01590
West Bridgewater	West Bridgewater MSHS	625	Rubber tile, porcelain tile, PLAM wainscot, painted GWB, carpet tile, ACT	New MS/HS	155 W Center St, West Bridgewater 02379

Sustainable Design Update



LEED v4 for BD+C: Schools
Project Checklist

Project Name: Peebles Elementary
Date: February 2, 2017

Y ? N

1			Credit	Integrative Process	1
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9	2	4	Location and Transportation		15
		0	Credit	LEED for Neighborhood Development Location	15
1			Credit	Sensitive Land Protection	1
2			Credit	High Priority Site	2
2	1	2	Credit	Surrounding Density and Diverse Uses	5
2		2	Credit	Access to Quality Transit	4
1			Credit	Bicycle Facilities	1
1			Credit	Reduced Parking Footprint	1
	1		Credit	Green Vehicles	1

7	2	3	Sustainable Sites		12
Y			Prereq	Construction Activity Pollution Prevention	Required
Y			Prereq	Environmental Site Assessment	Required
1			Credit	Site Assessment	1
		2	Credit	Site Development - Protect or Restore Habitat	2
1			Credit	Open Space	1
1	1	1	Credit	Rainwater Management	3
2			Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction	1
	1		Credit	Site Master Plan	1
1			Credit	Joint Use of Facilities	1

6	1	5	Water Efficiency		12
Y			Prereq	Outdoor Water Use Reduction	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
2			Credit	Outdoor Water Use Reduction	2
3	1	3	Credit	Indoor Water Use Reduction	7
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

11	8	##	Energy and Atmosphere		31
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
5		1	Credit	Enhanced Commissioning	6
5	3	8	Credit	Optimize Energy Performance	16
	1		Credit	Advanced Energy Metering	1
	2		Credit	Demand Response	2
		3	Credit	Renewable Energy Production	3
	1		Credit	Enhanced Refrigerant Management	1
1	1		Credit	Green Power and Carbon Offsets	2

5	3	5	Materials and Resources		13
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Planning	Required
	3	2	Credit	Building Life-Cycle Impact Reduction	5
1		1	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1		1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
1		1	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2			Credit	Construction and Demolition Waste Management	2

7	4	5	Indoor Environmental Quality		16
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
Y			Prereq	Minimum Acoustic Performance	Required
1		1	Credit	Enhanced Indoor Air Quality Strategies	2
3			Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
	1	1	Credit	Indoor Air Quality Assessment	2
		1	Credit	Thermal Comfort	1
2			Credit	Interior Lighting	2
	1	2	Credit	Daylight	3
	1		Credit	Quality Views	1
	1		Credit	Acoustic Performance	1

4	1	1	Innovation		6
3	1	1	Credit	Innovation ("exemplary performance" in other credits - needs verification)	5
1			Credit	LEED Accredited Professional	1

1	3	0	Regional Priority		4
1			Credit	Regional Priority: Outdoor Water Use (2 points in credit)	1
	1		Credit	Regional Priority: Rainwater Management (2 points in credit)	1
	1		Credit	Regional Priority: Indoor Water Use (4 points in credit)	1
	1		Credit	Regional Priority: Optimize Energy Performance (8 points in credit)	1

51	24	35	TOTALS	Possible Points:	110
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Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

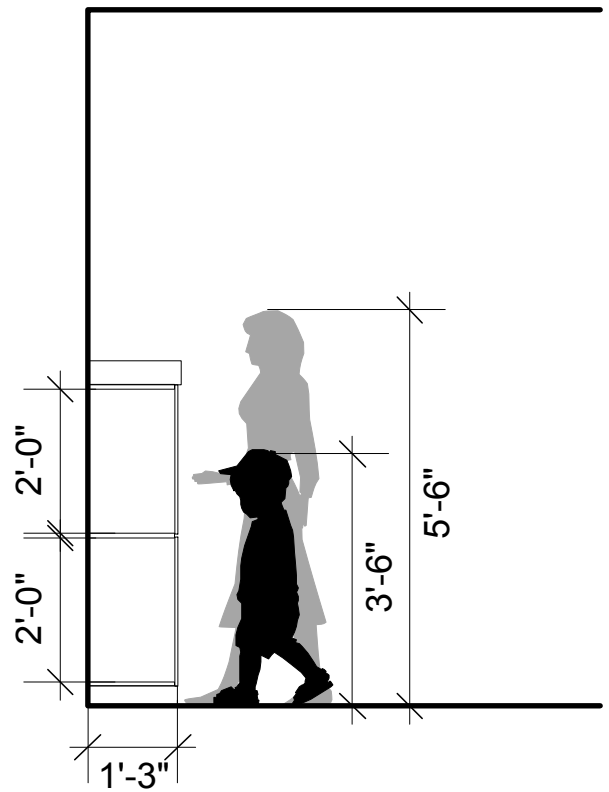
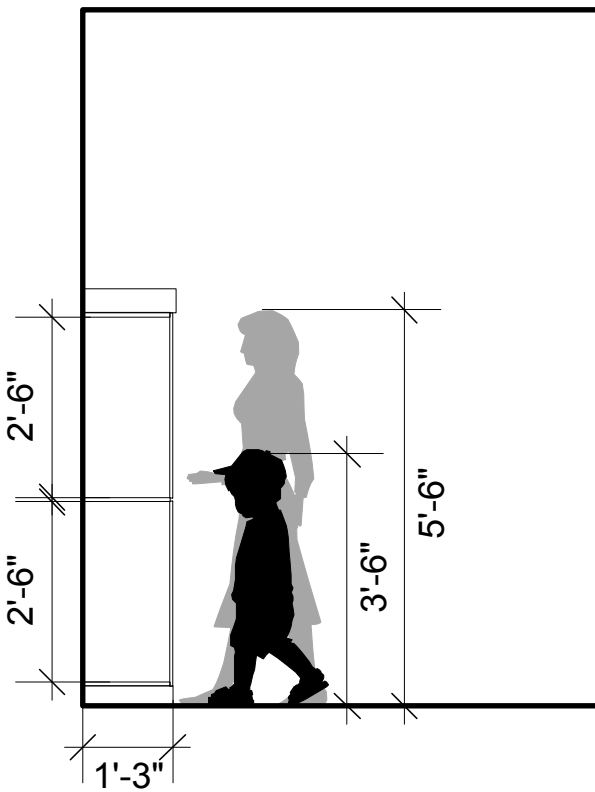
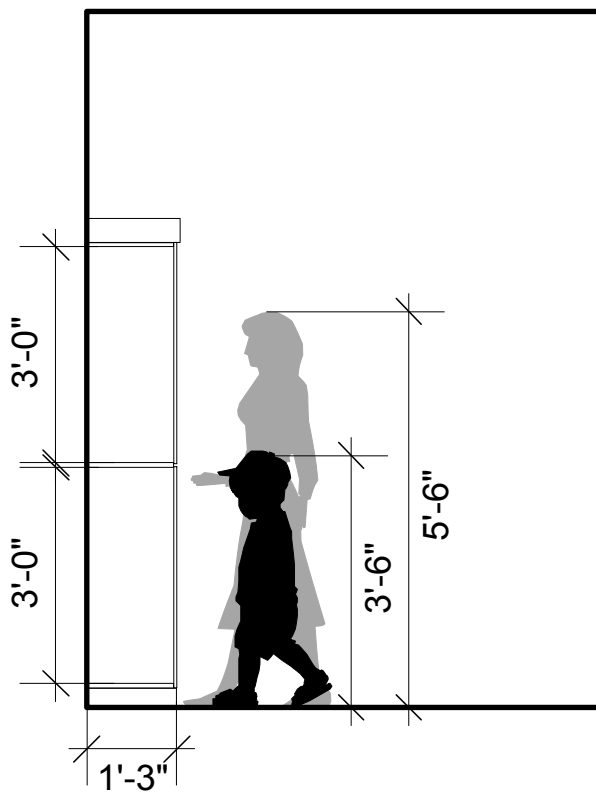
Peebles Elementary School Design Phase Submittal - 01.30.17

(Note: only attempted design phase credits and prerequisites listed)

KEY	
	Revisions complete.
	No change required.
	ACTION REQUIRED.
	Not pursuing.

Category	Credit Name	Responsible Party	LEED Online Status:	Comments/notes:
PI Forms	Project Information		In Progress	
IP Prereqs	Integrative Process		In Progress	
LT Credits	LEED for Neighborhood Developmt		Not Pursuing	
	Sensitive Land Protection		In Progress	
	High Priority Site		In Progress	
	Density and Diverse Uses		In Progress	
	Access to Quality Transit		In Progress	
	Bicycle Facilities		In Progress	
	Reduced Parking Footprint		In Progress	
	Green Vehicles		In Progress	
	Environmental Site Assessment		In Progress	
SS Credits	Site Assessment		In Progress	
	Protect or Restore Habitat		Not Pursuing	
	Open Space		In Progress	
	Rainwater Management		In Progress	
	Heat Island Reduction		In Progress	
	Light Pollution Reduction		In Progress	
	Site Master Plan		In Progress	
WE Prereqs	Outdoor Water Use Reduction		In Progress	
	Indoor Water Use Reduction		In Progress	
	Building-Level Water Metering		In Progress	
WE Credits	Outdoor Water Use Reduction		In Progress	
	Indoor Water Use Reduction		In Progress	
	Cooling Tower Water Use		In Progress	
	Water Metering		In Progress	
	Min. Energy Performance		In Progress	
	Building-Level Energy Metering		In Progress	
	Fundamental Refrigerant Mgmt		In Progress	
	Optimize Energy Performance		In Progress	
	Advanced Energy Metering		Not Pursuing	
	Renewable Energy Production		Not Pursuing	
	Enhanced Refrigerant Management		Not Pursuing	
MR Prereqs	Storage + Collection of Recyclables		In Progress	
IEQ Prereqs	Min. Indoor Air Quality Performance		In Progress	
	Tobacco Smoke Control		In Progress	
	Min. Acoustic Performance		In Progress	
IEQ Credits	Enhanced IAQ Strategies		In Progress	
	Thermal Comfort		Not Pursuing	
	Interior Lighting		In Progress	
	Daylight		Not Pursuing	
	Quality Views		In Progress	
	Acoustic Performance		Not Pursuing	
Innovation	Innovation		In Progress	
Regional Priority	Outdoor Water Use		In Progress	
	Rainwater Management		In Progress	
	Indoor Water Use		In Progress	
	n/a		Not Pursuing	

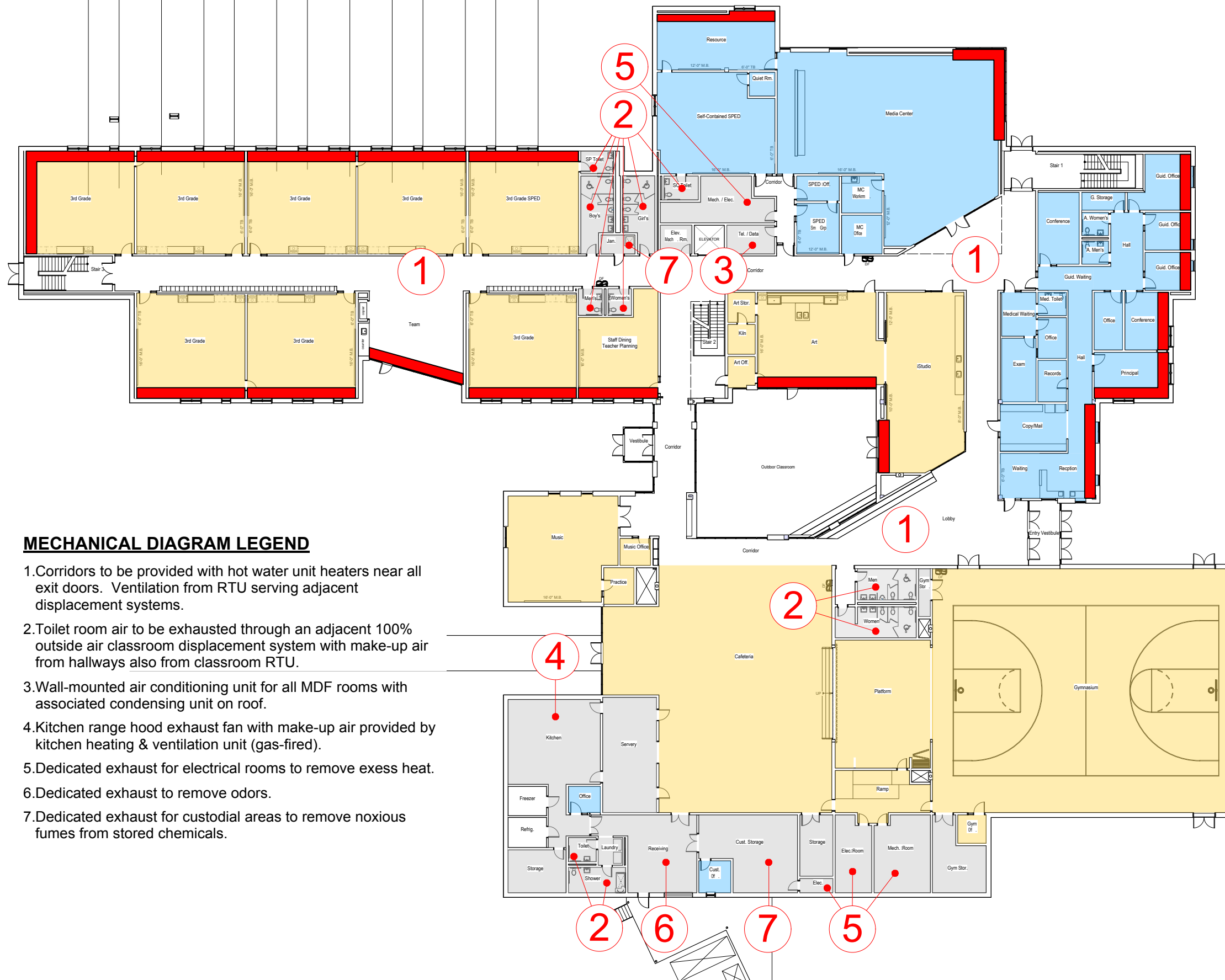
Interior Design Locker Height Study



LOCKER HEIGHT STUDY

Mechanical, Technology & Plumbing Update

Mechanical Diagram First Floor



MECHANICAL DIAGRAM KEY

- FULL AIR CONDITIONING
Ceiling-mounted induction units with hot & chilled water coils for heating & cooling, ducted to the RTU for ventilation.
- DISPLACEMENT AIR
Floor/wall mounted displacement diffusers deliver low-velocity air at 63°F-68°F (depending on outdoor air temp.) for dehumidification & ventilation.
- VENTILATION & HEAT
- RADIANT PANEL

MECHANICAL DIAGRAM LEGEND

1. Corridors to be provided with hot water unit heaters near all exit doors. Ventilation from RTU serving adjacent displacement systems.
2. Toilet room air to be exhausted through an adjacent 100% outside air classroom displacement system with make-up air from hallways also from classroom RTU.
3. Wall-mounted air conditioning unit for all MDF rooms with associated condensing unit on roof.
4. Kitchen range hood exhaust fan with make-up air provided by kitchen heating & ventilation unit (gas-fired).
5. Dedicated exhaust for electrical rooms to remove excess heat.
6. Dedicated exhaust to remove odors.
7. Dedicated exhaust for custodial areas to remove noxious fumes from stored chemicals.

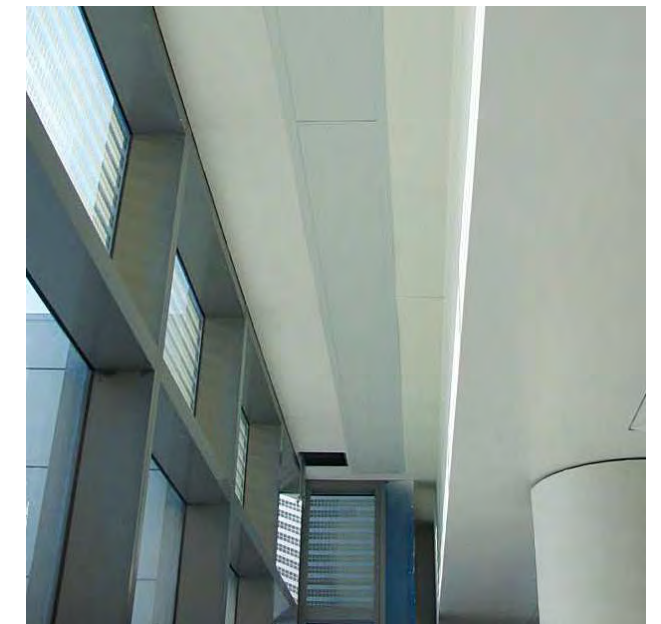
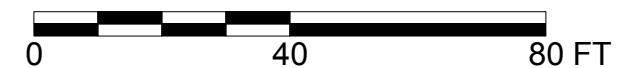
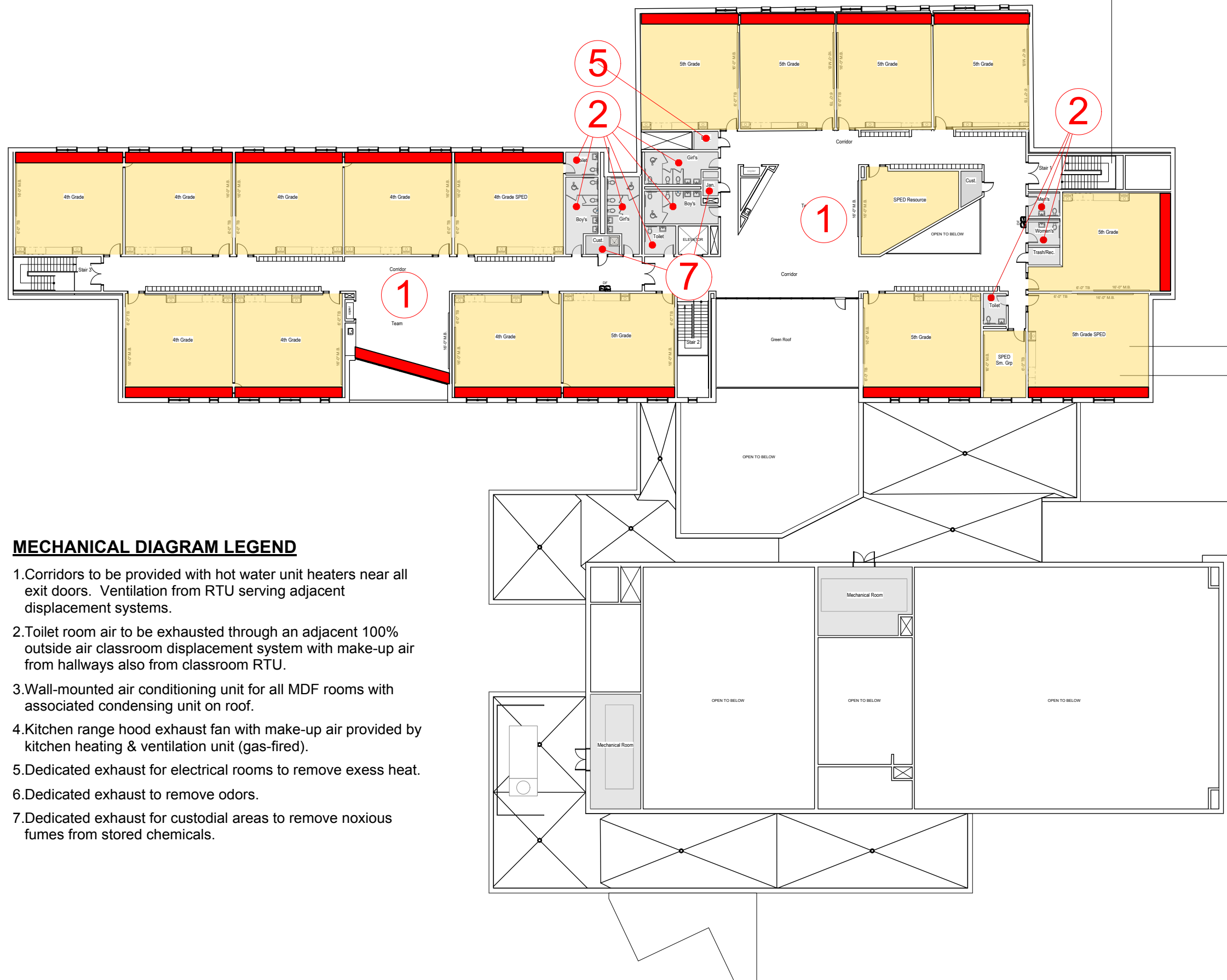






IMAGE OF PERIMETER RADIANT PANEL



Mechanical Diagram Second Floor



MECHANICAL DIAGRAM KEY

-  FULL AIR CONDITIONING
Ceiling-mounted induction units with hot & chilled water coils for heating & cooling, ducted to the RTU for ventilation.
-  DISPLACEMENT AIR
Floor/wall mounted displacement diffusers deliver low-velocity air at 63°F-68°F (depending on outdoor air temp.) for dehumidification & ventilation.
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-  RADIANT PANEL

MECHANICAL DIAGRAM LEGEND

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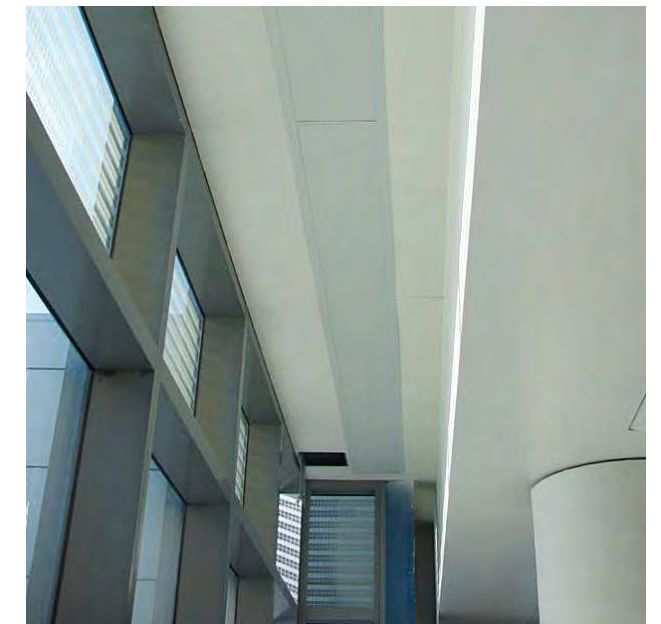
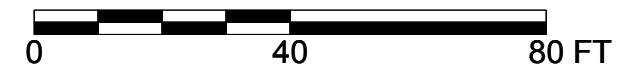
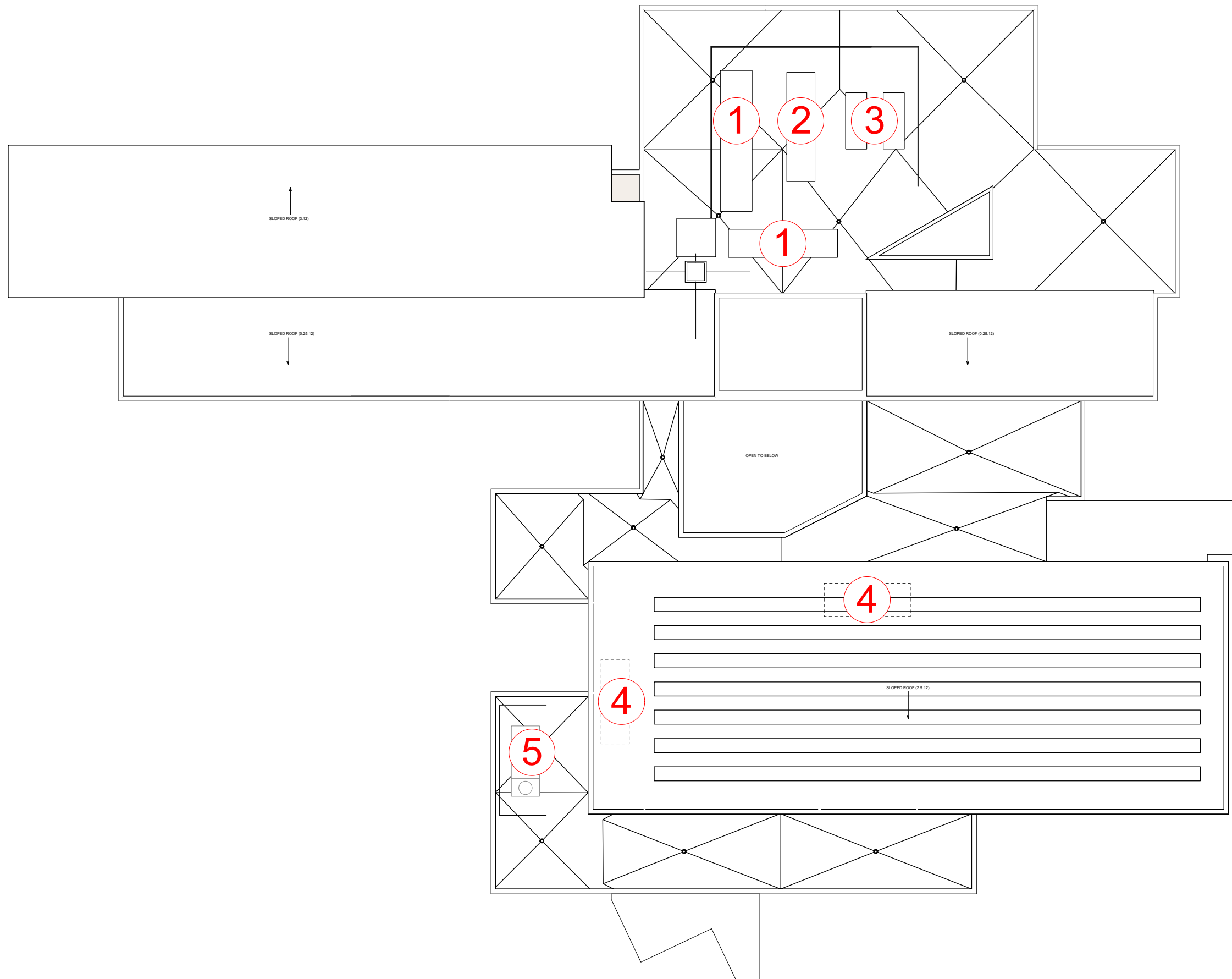


IMAGE OF PERIMETER RADIANT PANEL

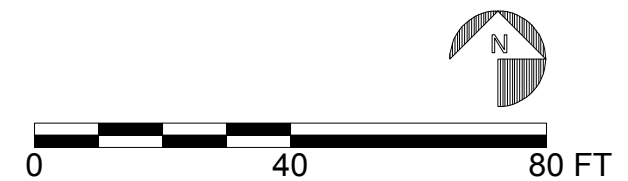


Mechanical Diagram Roof



MECHANICAL ROOF DIAGRAM LEGEND








1. 100% outdoor air roof top unit & gas-fired-furnace with direct expansion refrigerant-based cooling. (General Classrooms)
2. 100% outdoor air roof top unit & gas-fired-furnace with direct expansion refrigerant-based cooling. (Administration, Media Center, SPED classrooms, & iStudio)
3. High-efficiency outdoor air-cooled chiller.
4. Re-circulating indoor air-handling unit with hot & chilled water coils. (suspended below roof)
5. Kitchen range hood exhaust fan with make-up air provided by kitchen heating & ventilation unit (gas-fired).

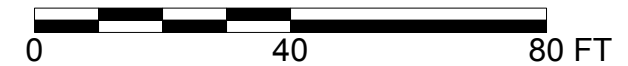


Technology Diagram First Floor



TECHNOLOGY DIAGRAM KEY








-  SHORT THROW PROJECTOR
-  MARKER BOARD PROJECTION SURFACE
-  STANDARD PROJECTOR
-  PROJECTION SCREEN
-  MULTI-TASK COPIER
-  LED DISPLAY
-  TYPICAL CLASSROOM:
PA SPEAKER
CALL BUTTON
SECONDARY CLOCK
VoIP HANDSET

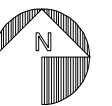
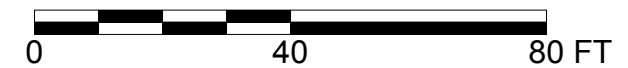


Technology Diagram Second Floor



TECHNOLOGY DIAGRAM KEY

-  SHORT THROW PROJECTOR
-  MARKER BOARD PROJECTION SURFACE
-  STANDARD PROJECTOR
-  PROJECTION SCREEN
-  MULTI-TASK COPIER
-  LED DISPLAY
-  TYPICAL CLASSROOM:
PA SPEAKER
CALL BUTTON
SECONDARY CLOCK
VoIP HANDSET

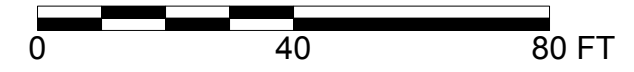


Plumbing Diagram First Floor



PLUMBING DIAGRAM KEY

- GROUP TOILETS
Boy's and Girl's multi-user bathroom.
- SINGLE TOILET
Faculty and/or SPED single-user toilet.

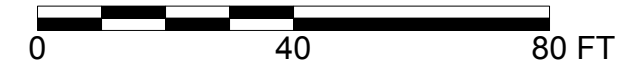


Plumbing Diagram Second Floor



PLUMBING DIAGRAM KEY

- GROUP TOILETS
Boy's and Girl's multi-user bathroom.
- SINGLE TOILET
Faculty and/or SPED single-user toilet.



► **Code Number**

15122486

► **Description**

Gradient Basin Lavatory System can be equipped with Sloan® sensor-activated faucets. Constructed of durable corian or natural stone, both materials are available with our 20% or more post consumer recycled content.

► **Specifications**

The 90" Wall Mounted Console Unit includes:

- Dimensions: 90" x 22" x 5"
- A Monolithic Console, fabricated from corian material or natural stone
- Wall mounted carrier not supplied
- A high polished grid strainer provided
- Wall Mounted Console is ADA compliant if Installed properly

Sloan Electronic Faucets features:

- Sloan Sensor Technology for reliable performance
- Hardwire or Battery powered
- Infrared or Capacitance
- Troubleshooting LED Indicator Lights
- Filtered Solenoid with serviceable Strainer Filter

Faucet features may vary. See faucet specification sheets for details

► **Variations**

- ESD - Electronic Soap Dispenser
- DS - Designer Stone (Quartz)
- FM - Frame
- AB - Angle Brackets
- ENC - Enclosure

► **NOTE**

DSG dimensions can be customized per designer request. See your Sloan representative for details.

► **Faucet Options**



EAF-200/250

► **OPERATION**

As the user's hands enter the beam's effective range, the beam is reflected back into the sensor receiver and activates the solenoid valve allowing water to flow from the spout. Water will flow until user's hands are removed or until the time out limit is reached.



► **Compliance & Certifications**



This space for Architect/Engineer Approval



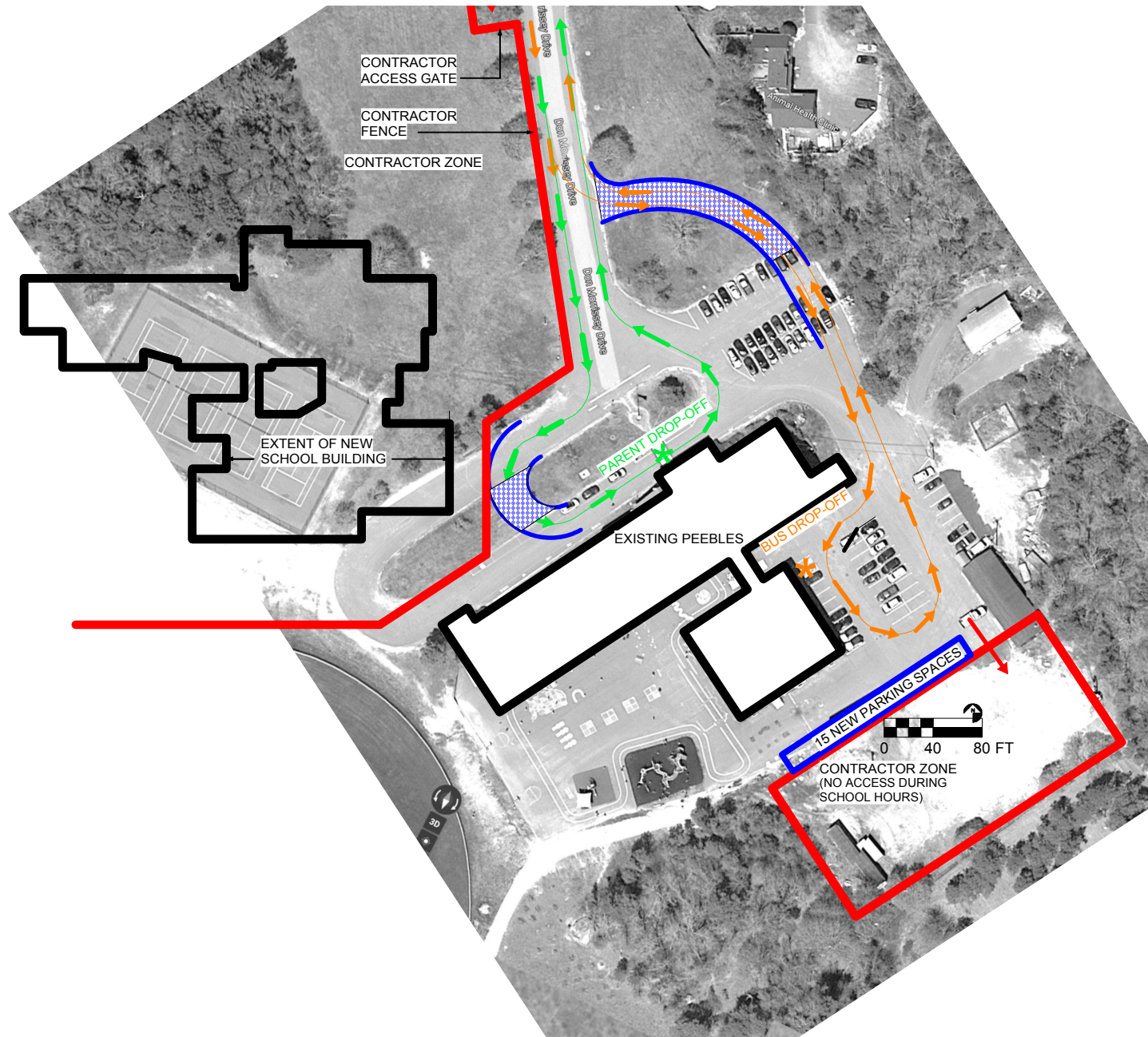
► **The Gradient Triple Station Lavatory System**

The Gradient Basin design is an ergonomic hand washing basin, bringing higher efficiencies to the entire hand washing process in a more natural way. The Gradient may be configured to designers specifications. Waste assembly is not provided. Choose from one of the many Sloan faucets for the perfect match.

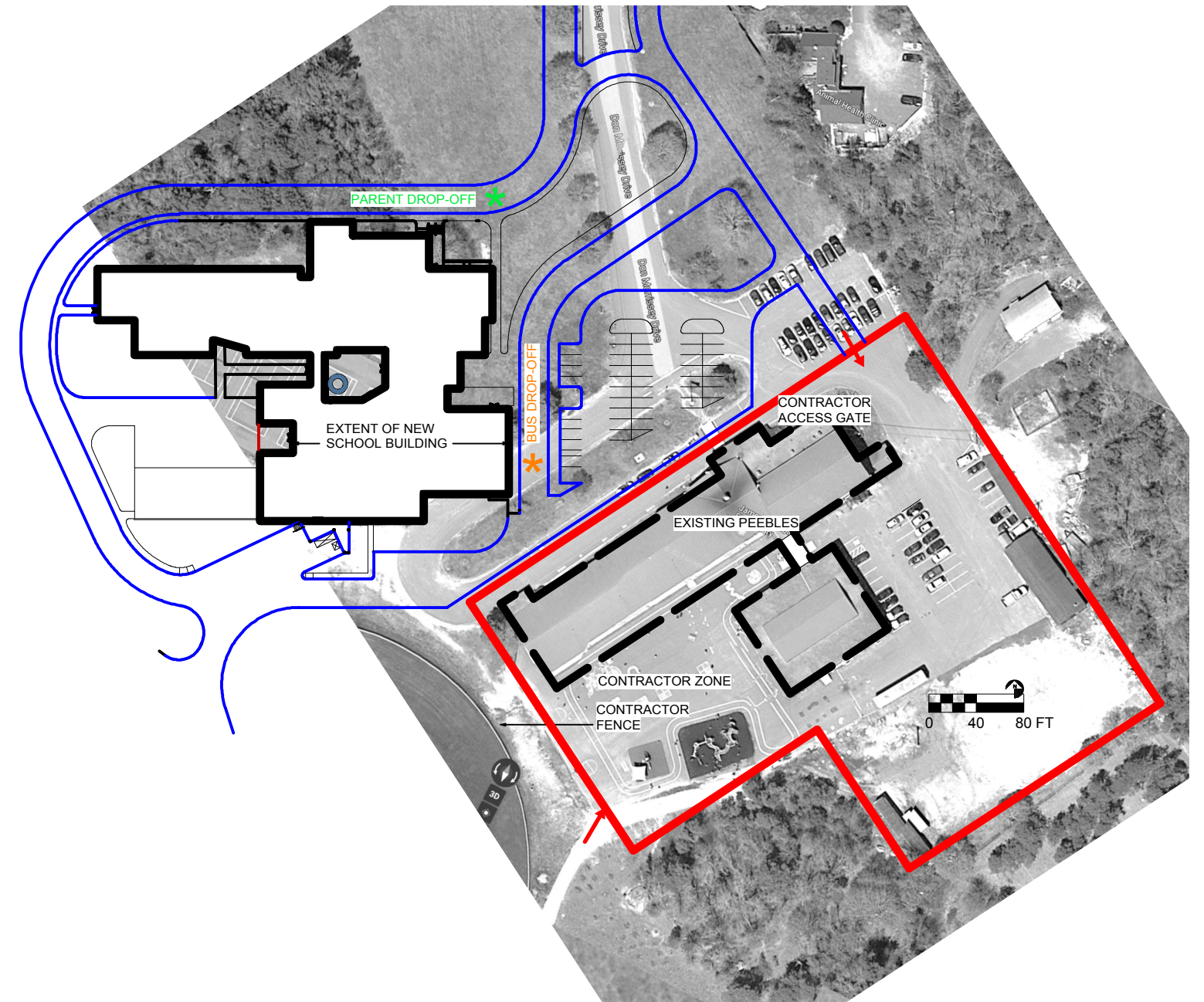
Construction Phasing

CONSTRUCTION PHASING

DRAFT



December 2017 through June 2019



June 2019 through November 2019