

PROJECT MINUTES

Project:	New Peebles Elementary School	Project No.:	15041
Prepared by:	Joel Seeley	Meeting Date:	2/16/2017
Re:	School Building Committee Meeting	Meeting No:	34
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	
✓	Betsy Farrell Garcia	FAI, Architect	
✓	Bill Beatrice	FAI, Architect	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
34.1	Record	Call to Order, 6:30 PM, meeting opened.
34.2	Record	A motion was made by P. Meier and seconded by F. Howe to approve the 2/2/2017 School Building Committee meeting minutes. No discussion, motion passed unanimous by those attending, one abstention.
34.3	Record	J. Seeley distributed and reviewed the Project Budget Status Report, dated 12/31/16, attached.
34.4	Record	Warrant No. 15 was reviewed. A motion was made by P. Meier and seconded by R. Lavoie to approve Warrant No. 15. No discussion, motion passed unanimous.
34.5	K. Kovacs	K. Kovacs will coordinate a tour of a few schools in May or June that represent the Interior Materials.
34.6	K. Kovacs District	J. Seeley distributed and reviewed the Educational Meetings Action Items Log, dated 2/15/17 and attached, tracking open issues from the Educational Leadership Meetings, as of the 1/27/17 meeting. K. Kovacs and the District to resolve and record the open items.
34.7	Record	B. Beatrice distributed and reviewed the Educational Leadership meeting minutes for Site Design, Food Service Design and MEP Design, attached.
34.8	K. Kovacs	K. Kovacs to provide direction on whether all the LED TVs, short-throw and standard projectors can receive and project cable television at the next Committee meeting.
34.9	Record	B. Garcia indicated the facing material on the gymnasium side of the operable partition will be vinyl fabric faced.
34.10	K. Kovacs	K. Kovacs will provide a cut sheet for the retractable lift for the standard projector in the Gymnasium for the next Committee meeting.
34.11	K. Kovacs	K. Kovacs to review with the Educational Leadership Committee the function of the Stage as a teaching space with the operable partition only on the Gymnasium side of the Stage.
34.12	B. Garcia	B. Garcia reviewed the LVT product and warranties. The 10 year warranty includes a 20 mil wearing layer, the 12 year warranty has a 28 mil wearing layer and the 20 year has a 40 mil wearing layer. The Design Development documents include the 20 mil layer. Committee Discussion: 1. C. Hyldburg asked beyond the warranty term, what is the life expectancy for LVT? <i>B. Garcia will provide direction at the next Committee meeting.</i>
34.13	B. Garcia	B. Garcia distributed and reviewed cut sheets for a Wolf Gordon wainscoat product and an Acrovyn wainscoat product, both attached, as options to the plastic laminate clad wainscot panel. The Wolf Gordon product is approximately \$6.50/sf, the Acrovyn \$12/sf and the plastic laminate \$24/sf. Committee Discussion: 1. J. Potter asked how were the panel joints addressed in the Acrovyn product. <i>B. Garcia will provide direction at the next Committee meeting.</i>

Item #	Action	Discussion
34.14	B. Garcia	B. Garcia indicated FAI has contacted locker manufacturers for samples of the 30” and 36” high lockers. The Design Development documents will include 30” high lockers for grades 3 and 4 and 36” high lockers for grade 5.
34.15	B. Garcia	<p>B. Garcia presented an update on the project interior design, attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. P. Meier asked if the gymnasium bleachers are fixed or retractable? <i>B. Garcia indicated the Design Development documents will be pricing both for review.</i> 2. R. Lavoie asked if the bench in the lobby will impede the flexibility of the space? <i>B. Garcia will review and provide layout options on how the space could be used for multiple functions, such as with display tables and chairs.</i> <i>J. Potter indicated the bench could be a VE item if needed.</i> 3. P. Meier asked that the Media Center be wired for video for taping of meetings by BATV. <i>B. Garcia will review and provide direction.</i> 4. C. Hyldborg asked that the I-Studio display cases be more visible. <i>B. Garcia will review and provide direction.</i> 5. R. Lavoie asked if all paper displays needed to be in display cabinets, similar to when Bournedale was constructed. <i>B. Garcia will review and provide direction.</i> 6. J. Potter asked if physical samples can be provided for all interior materials? <i>B. Garcia indicated yes, a binder will be produced for all interior materials.</i>
34.16	Record	G. Garcia provided an update on the Energy Model, attached. The energy model is on track to obtain the LEED credits for energy efficiency.
34.17	B. Beatrice	<p>B. Beatrice distributed and reviewed the updated Construction Phasing Diagrams, attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. B. Beatrice to calculate and show the area required for the 15,000 CY of stockpile. 2. C. Hyldborg indicated that since the access to the football field will be cut-off during construction, an accessible route needs to be developed for football games, graduation, and public safety vehicles. <i>B. Beatrice will review and provide direction at the next Committee meeting.</i> 3. K. Anderson asked if there will be enough parking spaces for the staff? <i>B. Beatrice will review and provide direction at the next Committee meeting.</i> 4. K. Anderson asked where will the snow stockpile areas be located? <i>B. Beatrice will review and provide direction at the next Committee meeting.</i>
34.18	B. Beatrice B. Garcia	B. Beatrice provided an overview of the types of VE items that may need to be developed in order to maintain the project on budget. Those items will be provided and estimated after the Design Development reconciliation meeting on 2/27/17. B. Garcia indicated a

Item #	Action	Discussion
	J. Seeley	possible VE item may be the wainscoat panels. Another could be the acoustical wall panels, which could be felt textured panels, fiberglass fabric panels or polyester fabric panels. FAI and SMMA will be prepared to present and discuss suggested VE items, if needed, at the next Committee meeting.
34.19	B. Garcia J. Potter P. Meier J. Seeley	<p>Old or New Business:</p> <ol style="list-style-type: none"> 1. P. Meier asked if students can be involved in the design process? <i>E. Donoghue indicated this has been discussed at the Educational Leadership meetings, and some ideas are: student created wall tiles or painted murals. B. Garcia will provide options for Committee review.</i> 2. N. Scarpato asked if the Committee can change to electronic agenda packages and not use paper? <i>J. Seeley to include in the agenda for discussion at the next Committee meeting.</i> 3. J. Potter will contact the Town Moderator on the Member-at-Large vacancy 4. P. Meier will provide an update on the Local Official Responsible for Building Maintenance vacancy for the next Committee meeting.
34.20	Record	Next SBC Meeting: March 2, 2017 at 6:30 pm at the Bourne Veteran's Memorial Community Center.
34.21	Record	A Motion was made by P. Meier and seconded by F. Howe to adjourn the meeting. No discussion, voted unanimously.

Attachments: Agenda, Project Budget Status Report, Educational Meetings Action Items Log, Educational Leadership meeting minutes for Site Design, Food Service Design and MEP Design, Cut Sheets for Wolf Gordon and Acrovyn wainscoat products, Energy Model, Construction Phasing Diagrams, 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:	2/16/2017
Re:	School Building Committee Meeting	Meeting No.:	34
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 Hyldburg	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	Principal, PES
	Bill Beatrice	bbeatrice@flansburgh.com	Flansburgh Architects
	Betsy Farrell Garcia	bgarcia@flansburgh.com	Flansburgh Architects
	Joel Seeley	jseeley@smma.com	Flansburgh Architects
			SMMA

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AGENDA

Project:	New Peebles Elementary School	Project No.:	15041
Re:	School Building Committee Meeting	Meeting Date:	2/16/2017
Meeting Location:	Veterans Memorial Community Center	Meeting Time:	6:30 PM
Prepared by:	Joel Seeley	Meeting No.:	35
Distribution:	Committee Members (MF)		

1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Review Updated Site Plan, Floor Plans and Interior Elevations
5. Review Energy Model
6. Review Updated Construction Logistics
7. Value Engineering Concepts
8. Old or New Business
9. Public Comments
10. Next Meeting: March 2, 2017
11. Adjourn

Symmes Maini & McKee Associates, Inc. (SMMA) Bourne School District Bourne Peebles Elementary School BUDGET SUMMARY BUDGET TRACKING FORM as of: 12/31/2016		Original PS&B Budget 11/2/2016	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
Propay code #	Name			A	B	C	D	E	
	Feasibility Study Agreement								
1	0001-0000 OPM Feasibility Study	125,000.00		125,000.00	117,100.00	117,100.00	-	-	7,900.00
2	0002-0000 A&E Feasibility Study	365,000.00	19,125.00	384,125.00	384,125.00	374,875.00	9,250.00	-	-
3	0003-0000 Environmental and Site	140,000.00		140,000.00	77,803.00	75,053.00	2,750.00	-	62,197.00
4	0004-0000 Other	120,000.00	(19,125.00)	100,875.00	672.13	672.13	-	-	100,202.87
	Feasibility Study Agreement Subtotal	\$ 750,000.00	\$ -	\$ 750,000.00	\$ 579,700.13	\$ 567,700.13	\$ 12,000.00	\$ -	\$ 170,299.87
	Administration								
6	0101-0000 Legal Fees	50,000.00		50,000.00	-	-	-	-	50,000.00
	Owner's Project Manager								
7	0102-0400 > Design Development	50,000.00		50,000.00	50,000.00	5,000.00	45,000.00	-	-
8	0102-0500 > Construction Contract Documents	90,000.00		90,000.00	90,000.00	-	90,000.00	-	-
9	0102-0600 > Bidding	50,000.00		50,000.00	50,000.00	-	50,000.00	-	-
10	0102-0700 > Construction Contract Administration	800,000.00		800,000.00	800,000.00	-	800,000.00	-	-
11	0102-0800 > Closeout	54,863.00		54,863.00	54,863.00	-	54,863.00	-	-
12	0102-0900 > Extra Services	40,000.00		40,000.00	-	-	-	-	40,000.00
13	0102-1000 > Reimbursable & Other Services	15,000.00		15,000.00	-	-	-	-	15,000.00
14	0102-1100 > Cost Estimates	50,000.00		50,000.00	41,745.00	-	41,745.00	-	8,255.00
15	0103-0000 Advertising	5,000.00		5,000.00	-	-	-	-	5,000.00
16	0104-0000 Permitting	50,000.00		50,000.00	-	-	-	-	50,000.00
17	0105-0000 Owner's Insurance	20,000.00		20,000.00	-	-	-	-	20,000.00
18	0199-0000 Other Administrative Costs	20,000.00		20,000.00	-	-	-	-	20,000.00
	Administration Subtotal	\$ 1,294,863.00	\$ -	\$ 1,294,863.00	\$ 1,086,608.00	\$ 5,000.00	\$ 1,081,608.00	\$ -	\$ 208,255.00
	Architecture and Engineering								
	Basic Services								
21	0201-0400 > Design Development	530,000.00		530,000.00	530,000.00	106,000.00	424,000.00	-	-
22	0201-0500 > Construction Contract Documents	1,060,000.00		1,060,000.00	1,060,000.00	-	1,060,000.00	-	-
23	0201-0600 > Bidding	130,000.00		130,000.00	130,000.00	-	130,000.00	-	-
24	0201-0700 > Construction Contract Administration	874,000.00		874,000.00	874,000.00	-	874,000.00	-	-
25	0201-0800 > Closeout	132,037.00		132,037.00	132,037.00	-	132,037.00	-	-
26	0201-9900 > Other Basic Services	-		-	-	-	-	-	-
27		BASIC SERVICES SUBTOTAL		\$ 2,726,037.00	\$ 2,726,037.00	\$ 106,000.00	\$ 2,620,037.00	\$ -	\$ -
	Reimbursable Services								
28	0203-0100 > Construction Testing	40,000.00		40,000.00	-	-	-	-	40,000.00
29	0203-0200 > Printing (over minimum)	20,000.00		20,000.00	-	-	-	-	20,000.00
30	0203-9900 > Other Reimbursable Costs	100,000.00		100,000.00	-	-	-	-	100,000.00
31	0204-0200 > Hazardous Materials	100,000.00		100,000.00	-	-	-	-	100,000.00
32	0204-0300 > Geotech & Geo-Env.	80,000.00		80,000.00	-	-	-	-	80,000.00
33	0204-0400 > Site Survey	60,000.00		60,000.00	-	-	-	-	60,000.00
34	0204-0500 > Wetlands	5,000.00		5,000.00	-	-	-	-	5,000.00
35	0204-1200 > Traffic Studies	40,000.00		40,000.00	-	-	-	-	40,000.00
	Architectural and Engineering Subtotal	\$ 3,171,037.00	\$ -	\$ 3,171,037.00	\$ 2,726,037.00	\$ 106,000.00	\$ 2,620,037.00	\$ -	\$ 445,000.00

Symmes Maini & McKee Associates, Inc. (SMMA) Bourne School District Bourne Peebles Elementary School BUDGET SUMMARY BUDGET TRACKING FORM as of: 12/31/2016			Original PS&B Budget 11/2/2016	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
CM @ Risk Preconstruction Services										
36	0501-0000	Pre-Construction Services	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	0502-0001	Construction Budget	\$ 30,910,366.00		\$ 30,910,366.00	\$ -	\$ -	\$ -	\$ -	\$ 30,910,366.00
89	CSI Code	CSI Description								
89	0502-0010	CM Fee			-	-	-	-	-	-
89	0502-0020	Bonds and Insurances			-	-	-	-	-	-
89	0502-0030	Total GMP Construction Contingency			-	-	-	-	-	-
89	0502-0100	CM Staffing			-	-	-	-	-	-
89	0502-0100	GC's			-	-	-	-	-	-
89	0502-0100	Division 1 - General Requirements			-	-	-	-	-	-
89	0502-0200	Division 2 - Existing Conditions			-	-	-	-	-	-
89	0502-0300	Division 3 - Concrete			-	-	-	-	-	-
89	0502-0400	Division 4 - Masonry			-	-	-	-	-	-
89	0502-0500	Division 5 - Metals			-	-	-	-	-	-
89	0502-0600	Division 6 - Wood, Plastics and Composites			-	-	-	-	-	-
89	0502-0700	Division 7 - Thermal & Moisture Protection			-	-	-	-	-	-
89	0502-0800	Division 8 - Openings			-	-	-	-	-	-
89	0502-0900	Division 9 - Finishes			-	-	-	-	-	-
89	0502-1000	Division 10 - Specialties			-	-	-	-	-	-
89	0502-1100	Division 11 - Equipment			-	-	-	-	-	-
89	0502-1200	Division 12 - Furnishings			-	-	-	-	-	-
89	0502-1300	Division 13 - Special Construction			-	-	-	-	-	-
89	0502-1400	Division 14 - Conveying Systems			-	-	-	-	-	-
89	0502-2100	Division 21 - Fire Suppression			-	-	-	-	-	-
89	0502-2200	Division 22 - Plumbing			-	-	-	-	-	-
89	0502-2300	Division 23 - HVAC			-	-	-	-	-	-
89	0502-2500	Division 25 - Integrated Automation			-	-	-	-	-	-
89	0502-2600	Division 26 - Electrical			-	-	-	-	-	-
89	0502-2700	Division 27 - Communications			-	-	-	-	-	-
89	0502-2800	Division 28 - Electronic Safety & Security			-	-	-	-	-	-
89	0502-3100	Division 31 - Earthwork			-	-	-	-	-	-
89	0502-3200	Division 32 - Exterior Improvements			-	-	-	-	-	-
89	0502-3300	Division 33 - Utilities			-	-	-	-	-	-
89	0502-9900	Retainage			-	-	-	-	-	-
89	0508-0000	Change Orders			-	-	-	-	-	-
89		Construction Budget Subtotal	\$ 30,910,366.00	\$ -	\$ 30,910,366.00	\$ -	\$ -	\$ -	\$ -	\$ 30,910,366.00
		Alternates								
90	0506-0000	Ineligible Work (Maint Bldg, Press Box, Concession and Restrooms)	-		-	-	-	-	-	-
90	0506-0000	Retainage for Alternates/Ineligible Work	-		-	-	-	-	-	-
		Alternates Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	0600-0000	Miscellaneous Project Costs								
94	0601-0000	Utility Company Fees	84,000.00		84,000.00	-	-	-	-	84,000.00
95	0602-0000	Testing Services	100,000.00		100,000.00	-	-	-	-	100,000.00
96	0603-0000	Swing Space / Modulars	-		-	-	-	-	-	-
97	0699-0000	Other Project Costs (Mailing & Moving)	40,000.00		40,000.00	-	-	-	-	40,000.00
	0600-0000	Miscellaneous Project Costs Subtotal	\$ 224,000.00	\$ -	\$ 224,000.00	\$ -	\$ -	\$ -	\$ -	\$ 224,000.00
	0700-0000	Furnishings and Equipment								
99	0701-0000	Furnishings	690,000.00		690,000.00	-	-	-	-	690,000.00
	0702-0000	Equipment								
101	0703-0000	Computer Equipment	690,000.00		690,000.00	-	-	-	-	690,000.00
		Furnishings and Equipment Subtotal	\$ 1,380,000.00	\$ -	\$ 1,380,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,380,000.00
103	0507-0000	Owner's Construction Contingency	1,545,518.00	-	1,545,518.00	-	-	-	-	1,545,518.00
104	0801-0000	Owners' (soft cost) Contingency	643,257.00		643,257.00	-	-	-	-	643,257.00
		Contingency Subtotal	\$ 2,188,775.00	\$ -	\$ 2,188,775.00	\$ -	\$ -	\$ -	\$ -	\$ 2,188,775.00
		Total Project Budget	\$ 39,919,041.00	\$ -	\$ 39,919,041.00	\$ 4,392,345.13	\$ 678,700.13	\$ 3,713,645.00	\$ -	\$ 35,526,695.87

Peebles School Project (Grades 3-5)
DESIGN MEETINGS WITH SCHOOL ADMINISTRATION/STAFF
 All meetings held at District Office - 36 Sandwich Road at 9:00 AM - 12:00 AM

DRAFT

Dec 12, 2016

Date	Agenda
Dec 14, 2016 (Wednesday @ 9am) <i>completed</i>	EDUCATIONAL DESIGN MEETING at Peebles <ul style="list-style-type: none"> • Design Development Module project requirements discussion • Interviews with Administration, Staff and Teachers
Dec 15, 2016 (Thursday @ 9am) <i>completed</i>	EDUCATIONAL DESIGN MEETING at Peebles <ul style="list-style-type: none"> • Interviews with Administration, Staff and Teachers
January 05, 2017 (Thursday @ 9am) <i>completed</i>	EDUCATIONAL DESIGN MEETING <ul style="list-style-type: none"> • Floor Plan and Site Plan review • Interior Design
January 26, 2017 (Thursday @ 9am) <i>completed</i>	EDUCATIONAL DESIGN MEETING <ul style="list-style-type: none"> • Landscape Design with Waterman • Floor Plan review
February 01, 2017 (Thursday @ 9am) <i>completed</i>	EDUCATIONAL DESIGN MEETING <ul style="list-style-type: none"> • MEP discussion
February 13, 2017 (Thursday @ 9am)	EDUCATIONAL DESIGN MEETING and TOWN DEPARTMENTS <ul style="list-style-type: none"> • Technology (9:00 am - 9:45), Police (10:00am-11:00am), Fire/DPW (11:30 am-12:30pm)
February 16, 2017 (Thursday @ 9am)	EDUCATIONAL DESIGN MEETING <ul style="list-style-type: none"> • Final design development review

Peebles School Project (Grades 3-5)

DESIGN MEETINGS WITH SCHOOL ADMINISTRATION/STAFF

All meetings held at District Office - 36 Sandwich Road at 9:00 AM - 12:00 AM

Additional meetings as needed	

Date	Meeting Comment	Party	Resolution
December 14, 2016 Educational 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	This item was discussed at the January 5, 2017 Educational meeting and approved. FAI to update plans and space template.
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	This item has been incorporated into the art room layout
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	This item was discussed at the January 5, 2017 Educational meeting and approved. FAI to update plans and space template.
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	The workroom with sink and office has been incorporated into the plan.

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	This item was discussed at the January 5, 2017 Educational meeting and approved. FAI to update plans.
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	This item was discussed at the January 5, 2017 Educational meeting and discussed and approved at the February 2, 2017 SBC. FAI to update plans.
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	One singular staff toilet room has been provided within the 4th grade academic wing.
December 15, 2016 Educational Meeting				
1	12/15/2016	Physical Education: A water fountain was requested within the gym space. FAI stated this item will be incorporated.	FAI	The sink has been incorporated into the gymnasium layout.

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	This item was discussed at the January 5, 2017 Educational meeting and discussed and approved at the February 2, 2017 SBC. FAI to update plans.
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	This item was discussed and approved at the January 5, 2017 Educational meeting. FAI to update plans.
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	This item was discussed and approved at the January 5, 2017 Educational meeting. FAI to update plans.
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	This item was discussed at the January 5, 2017 Educational meeting and discussed and approved at the February 2, 2017 SBC. FAI to update plans.
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	This item was discussed at the January 5, 2017 and January 27,2017 Educational meeting. The dedicated space will be located on the north-side of the building adjacent to the parent pick-up and drop-off.
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.	District	
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	The Innovation Studio and Art room ceilings will be painted exposed deck and ductwork. This item was discussed at the February 16,2017 Educational meeting

Date	Meeting Comment	Party	Resolution
15	12/15/2016 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.	District/FAI	
16	12/15/2016 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.	District	
17	12/15/2016 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.	FAI	A crushed stone access road has been developed and incorporated into the project.
18	12/15/2016 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.	FAI	
19	12/15/2016 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.	FAI	
20	12/15/2016 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.	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 accommodated 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.	District	
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 Educational 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	Connecting doors have been incorporated into the project
January 26, 2016 Site Design Meeting				
1	1/26/2017	Site Design: Vehicular circulation for both cars and buses remains largely unchanged from the SD submission. The 24' wide, one-way circulation has been maintained. A crushed stone vehicular access from the Middle School to the maintenance shed has been added for pricing purposes. Cost will determine if the access drive remains in the project.	FAI/WDA	
2	1/26/2017	Site Design: Pedestrian circulation from Trowbridge Road and around the perimeter of the building also remains largely unchanged. The width of the sidewalk from Trowbridge Road to the main entrance has been widened to 8' minimum to accommodate shared pedestrian and bike use to allow us to meet the criteria for the LEED Location and Transportation credit for Bicycle Facilities. Additional pedestrian paths to connect the new school to the larger campus have been introduced for pricing purposes. Cost will determine if the paths remain in the project.	FAI/WDA	
3	1/26/2017	Playground Area: Program elements will include at least one play structure for age 5-12 children, the size of which will be determined based on the total square foot area of the designated structure area; a paved free play area with painted pavement striping for games (foursquare, hopscotch, etc.); a student garden area with raised timber planters; and four benches and two trash/recycling receptacles.	FAI/WDA	
January 27, 2017 Food Service Meeting				
1	1/27/2017	Change the 5 well hot wells to 4 well hot wells	FAI/TDA	

Date	Meeting Comment	Party	Resolution
2 1/27/2017	Change two of the hot cabinets to cold cabinets. A total of 2 hot and 2 cold cabinets to be provided.	FAI/TDA	
3 1/27/2017	Add a microwave oven	FAI/TDA	
4 1/27/2017	Add a Robo coup, food processor	FAI/TDA	
5 1/27/2017	Range to have storage base, not oven base	FAI/TDA	
6 1/27/2017	Two flat top condiment carts to be added to the cafeteria space with enclosed base.	FAI/TDA	
7 1/27/2017	Remove one section of storage shelving and add two can racks in place.	FAI/TDA	
8 1/27/2017	Worktables to have casters	FAI/TDA	

Date	Meeting Comment	Party	Resolution
9 1/27/2017	Convection ovens to have casters and flexible gas connection.	FAI/TDA	
10 1/27/2017	Steamer to be boiler less unit.	FAI/TDA	
11 1/27/2017	Add kettles (two trunnion)	FAI/TDA	
12 1/27/2017	Remove one double convection oven	FAI/TDA	
13 1/27/2017	Add pot rack over item FS-21	FAI/TDA	
14 1/27/2017	Add over shelves to items FS-14, FS-15 and FS-20	FAI/TDA	
15 1/27/2017	Relocate door into office to kitchen side	FAI/TDA	

Date		Meeting Comment	Party	Resolution
16	1/27/2017	TDA to update layout and provide cut sheets.	FAI/TDA	

WATERMAN DESIGN ASSOCIATES

LANDSCAPE ARCHITECTURE | URBAN DESIGN | PLANNING

MEETING MINUTES 001

Date of Meeting: January 26, 2017

Location of Meeting: Peebles Elementary School

Date of Issue: February 9, 2017

Attended By: Michael Dowhan – Waterman Design Associates (WDA)
 Kent Kovacs – Flansburgh Architects (FAI)
 Peebles Elementary School Administration

Project: Peebles Elementary School

RE: Overview of Site Design

WDA Project No. RI0121.01

ITEMS DISCUSSED:

	Item	Responsible	Status
1.00	<p>Site Design</p> <ul style="list-style-type: none"> Overview: an overview of the most up to date site design was presented. Items reviewed included vehicular and pedestrian circulation, parking, and revisions to the tennis court area. Vehicular circulation for both cars and buses remains largely unchanged from the SD submission. The 24' wide, one-way circulation has been maintained. A crushed stone vehicular access from the Middle School to the maintenance shed has been added for pricing purposes. Cost will determine if the access drive remains in the project. Pedestrian circulation from Trowbridge Road and around the perimeter of the building also remains largely unchanged. The width of the sidewalk from Trowbridge Road to the main entrance has been widened to 8' minimum to accommodate shared pedestrian and bike use to allow us to meet the criteria for the LEED Location and Transportation credit for Bicycle Facilities. Additional pedestrian paths to connect the new school to the larger campus have been introduced for pricing purposes. Cost will determine if the paths remain in the project. The main parking lot remains unchanged, and the parking for the tennis court that had been previously located north of the tennis courts along the connector drive has been moved to the south of the courts. The tennis court area has been modified to better accommodate emergency vehicle access. Its horizontal layout remains largely unchanged, but the location has been revised vertically as per the description in Section 2.00 below. 	FAI/WDA	

MEETING MINUTES 001

Peebles Elementary School

January 26, 2017

2.00	<p>Grading Design</p> <ul style="list-style-type: none">• Overview: the grading design has been modified to accommodate a relative balance between cut and fill on the site to reduce the impact of earthwork costs on the project.• The building FFE has been raised 1.0' from the SD submission.• The tennis court area has been raised by nearly 7' from the SD submission. The parking for the courts is now access from the main parking lot for the school, rather than from the access drive near the maintenance building. This change allows us to significantly increase the quantity of cut material that can be kept on-site.• The area of open lawn and walking paths between the tennis court and the existing softball field has also been raised to further accommodate the quantity of cut material that can be kept on-site.	FAI/WDA	
3.00	<p>Planting Design</p> <ul style="list-style-type: none">• Overview: the planting design was presented, with accompanying precedent images and an explanation of the genesis of the design concept.• There were questions about the viability of developing the entire site as a natural Cape Cod dune/meadow landscape, including concerns over ticks.• Agreement was reached on a hybrid planting alternative that includes areas of cut lawn along all of Trowbridge Road, at the rear of the building adjacent to the outdoor play spaces, and near the tennis courts and softball field. In all other locations, with the exception of the building foundation along the front façade, the ground plane treatment will consist of a dune/meadow planning seed mix that will mature over the first few planting seasons into a low maintenance meadow landscape.• Along the front of the building façade, large swaths of native, drought resistant ornamental grasses will be installed for accent, color, year round seasonal interest, scale transition, and ease of maintenance.	FAI/WDA	
4.00	<p>Playground Area</p> <ul style="list-style-type: none">• Overview: the playground area was reviewed, with an update on surface treatments, program elements, access from the building, and play structure options.• The surface treatments within the fenced limits of the playground area will consist of poured in place resilient rubber surfacing in the play structure area, colored bituminous pavement in the free play area and the walkways leading to the building entrances, and compacted stone dust in the student garden areas.• Program elements will include at least one play structure for age 5-12 children, the size of which will be determined based on the total square foot area of the designated structure area; a paved free play area with painted pavement striping for games	FAI/WDA	

MEETING MINUTES 001
Peebles Elementary School
January 26, 2017

	<p>(foursquare, hopscotch, etc.); a student garden area with raised timber planters; and four benches and two trash/recycling receptacles.</p> <ul style="list-style-type: none">• Options for the play structure from various manufacturers were presented, and catalogues from the manufacturers were left with the school principal for review and comment. Based on recommendations we receive, a structure will be specified and approved equal structures will be identified.		
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Tavares Design Associates, Inc.

Equipment Consultants • Facilities Planners

Meeting Date: 1/27/17, 10am

Location: 36 Sandwich Road
Bourne, MA

Subject: Bourne Kitchen meeting

Attendees: Robert T. Fogarty	Tavares Design Associates, Inc.
Edward Donoghue	Bourne Director of Business Services
Darlene Grealish	Food Service Director
Christopher Callahan	Chartwells - Regional Director

Notes:

- Robert Fogarty walked the client through the current proposed layout.
- The layout was generally well accepted.
- The layout must include a tray drop off area for the reusable trays.
Robert Fogarty indicated that a 44" dishmachine would be appropriate for this population.
- Below is a list of adds and changes requested.
 1. Change the 5 well hot wells to 4 well hot wells.
 2. Change two of the hot cabinets to cold cabinets. A total of 2 hot and 2 cold to be provided.
 3. Add a microwave oven.
 4. Add a Robo coup, food processor.
 5. Range to have storage base, not oven base.
 6. Two flat top condiment carts to be added to the cafeteria space with enclosed base.
 7. Remove one section of storage shelving and add two can racks in place.
 8. Worktables to have casters
 9. Convection ovens to have casters and flexible gas connection.
 10. Steamer to be boilerless unit.
 11. Add kettles (two trunnion)
 12. Remove one double convection oven.
 13. Add Pot rack over item FS-21
 14. Add overselves to items FS-14, FS-15 and FS-20.
 15. Relocate door into office to kitchen side.
- TDA to update layout and provide cut sheets.

RAMPART

News
Impact Resistant Wall Solutions
Pages
Resources



Wolf-Gordon now offers flexible wall protection engineered to fill the void between standard vinyl wallcovering and rigid sheet goods. **RAMPART Impact Resistant Wall Solutions** offer a range of designs and colorways for medium- to high-traffic interiors, at significant cost savings compared to high-density wall panels.



When tested by ASTM methods on standard drywall, RAMPART provides the same high performance for Surface Abrasion, Surface Indentation, and Hard Body Impact as the leading rigid sheet goods. The abuse-resistant material also received a Class A fire rating for Surface Burning characteristics, consistent with the NFPA 101 Life Safety Code. *Surcoat*, a proprietary stain- and abrasion-resistant finish, provides an easy-to-clean surface that is impervious to bacteria and fungus, while RAMPART's dense cotton (or polyester/cotton) backing adds stability and strength. RAMPART is low emitting, in compliance with Cal 01350, and it includes 10% recycled content.

Packaged in 52-inch wide bolts, the flexible material is easy to install, and costs less to ship and store than standard 4' x 8' wall panels. And, since these rolls are 27 yards long, RAMPART can be railroaded for wainscot applications.

To learn more about RAMPART or request samples, contact your sales representative or call Customer Service at 800 347 0550.

Acrovyn by Design® Sheet

Product Data

.040" thick Acrovyn is embedded with custom graphic imagery. The high-impact wall covering can be installed over a variety of substrates.



Technical Data:

- .040" (1.02mm) thick Acrovyn sheet
- Standard sheet sizes 4' x 8' (1.2m X 2.4m) and 4' x 10' (1.2m x 3.0m)
- Adhesive Mount

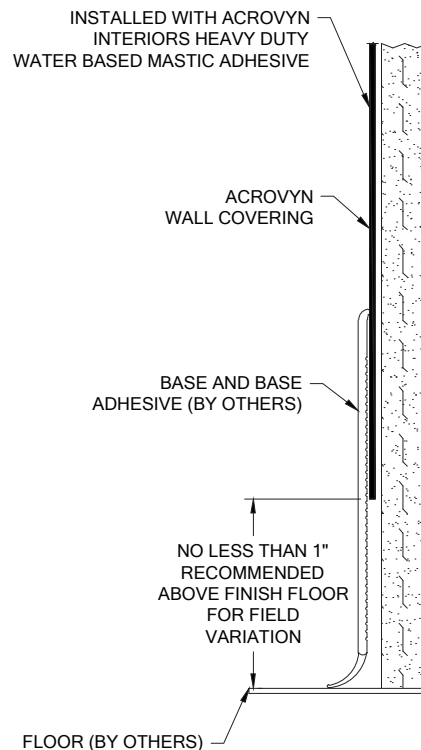
Features:

- Class A/1 fire characteristics
- Suede texture Acrovyn
- Engineered PETG free of PVC and PBTs
- CA 01350 protocol for low VOC
- 5 year product warranty

Options:

- Maximum 12' (3.7m) length; for larger sizes please contact factory
- Color-matched or clear caulk
- Acrovyn wainscot, vertical, inside and outside trim supplied in 10' (3.1m) lengths
- Aluminum wainscot, vertical, inside and outside trim supplied in 12' (3.7m) lengths
- Primer or no primer

Standard Patterns	Custom Images	Custom Colors	Custom Patterns
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SUGGESTED SPECIFICATIONS
SECTION 10 26 00
CS Acrovyn by Design® .040N Sheet

Part 1 - General

1.01 Summary

A. This section includes the following types of wall protection systems:

1. Wall Covering

B. Related sections: The following sections contain requirements related to this section:

1. Handrails, Corner Guards, Bumper Guards, Crash Rails, Accent Rails, Wall Panels, Door Protection; refer to section 10 26 00 "Wall and Door Protection"

1.02 References

A. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)

B. American Society for Testing and Materials (ASTM)

C. Underwriters Laboratories (UL)

D. California 01350 specification

1.03 Submittals

General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 "Submittal Procedures":

A. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.

B. Shop drawings showing locations, extent and installation details of wall covering products.

C. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and thickness:

1. Sample of each product specified.

D. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.

E. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

1.04 Quality Assurance

A. Installer qualifications: Engage an installer who has no less than 3 years experience in installation of systems similar in complexity to those required for this project.

B. Manufacturer's qualifications: Not less than 5 years experience in the production of specified products and a record of successful in-service performance.

C. Code compliance: Assemblies should conform to all applicable codes including IBC, UBC, SBCCI, BOCA, Life Safety and CA 01350.

D. Fire performance characteristics: Provide engineered PETG wall protection system components identical to those tested in accordance with ASTM E84 for Class A/1 characteristics listed below:

1. Flame spread: 25 or less

2. Smoke developed: 450 or less

E. Impact strength: Provide wall protection components that have been tested in accordance with the applicable provisions of ASTM F476.

F. Chemical and stain resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D543.

G. Color match: Provide wall protection components that are computer controlled within manufacturing tolerances and typical limitations of digital printing color matching.

H. Single source responsibility: Provide all components of the wall protection system manufactured by the same company to ensure compatibility of color, texture and physical properties.

1.05 Delivery, Storage and Handling

A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.

B. Store materials in original, undamaged packaging in a clean, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.

C. Materials must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 65-75°F (18-24°C) for at least 24 hours prior to beginning the installation.

B. Installation areas must be enclosed and weatherproofed before installation commences.

Part 2 - Products

2.01 Manufacturers

A. Interior surface protection products specified herein and included on the submittal drawings shall be manufactured by Construction Specialties, Inc.

2.02 Materials

A. Engineered PETG: Rigid sheet should be high-impact Acrovyn by Design with standard Suede texture, nominal .040" (1.02mm) thickness. Chemical and stain resistance should be per ASTM D543 standards as established by the manufacturer.

B. Aluminum: Optional aluminum trims to be alloy 6063 T5 with clear anodized finish; minimum strength and durability properties as specified in ASTM B221.

2.03 Wall Covering

A. Engineered PETG rigid sheet to be CS Acrovyn by Design. Nominal .040" (1.02mm) thick rigid sheet supplied in 4' x 8' or 10' (1.2m x 2.4m or 3.0m) sheet sizes in standard Suede texture. High definition graphic file reverse printed on clear sheet and sealed with protective backer. Select from one of standard pattern colorways or supply custom artwork with copyright clearance. Specify color-matched caulk, clear caulk, Acrovyn trims or aluminum trims as needed for joints/transitions.

2.04 Fabrication

A. General: Fabricate wall covering to comply with requirements indicated for design, dimensions, detail, finish and sizes.

2.05 Finishes

A. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applications and designations of finishes.

2.06 Accessories

A. Adhesive: Acrovyn wall covering shall be furnished as a complete packaged system, including appropriate standard adhesive.

B. Primer, caulk and trims available for purchase.

Part 3 - Execution

3.01 Examination

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer's installation instructions.

3.03 Installation

A. Install the work of this section in strict accordance with the manufacturer's recommendations using approved adhesive.

B. Temperature at the time of installation must be between 65-75°F (18-24°C) and be maintained for at least 48 hours after the installation to allow for proper adhesive set-up.

C. Relative humidity shall not exceed 80%.

D. Do not expose wall covering to direct sunlight during or after installation. This will cause the surface temperature to rise, which in turn will cause bubbles and delamination.

3.04 Cleaning

A. General: Immediately upon completion of installation, clean material in accordance with manufacturer's recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.05 Protection

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

School Building Committee Meeting

February 16, 2017

Peebles Elementary School Design Development

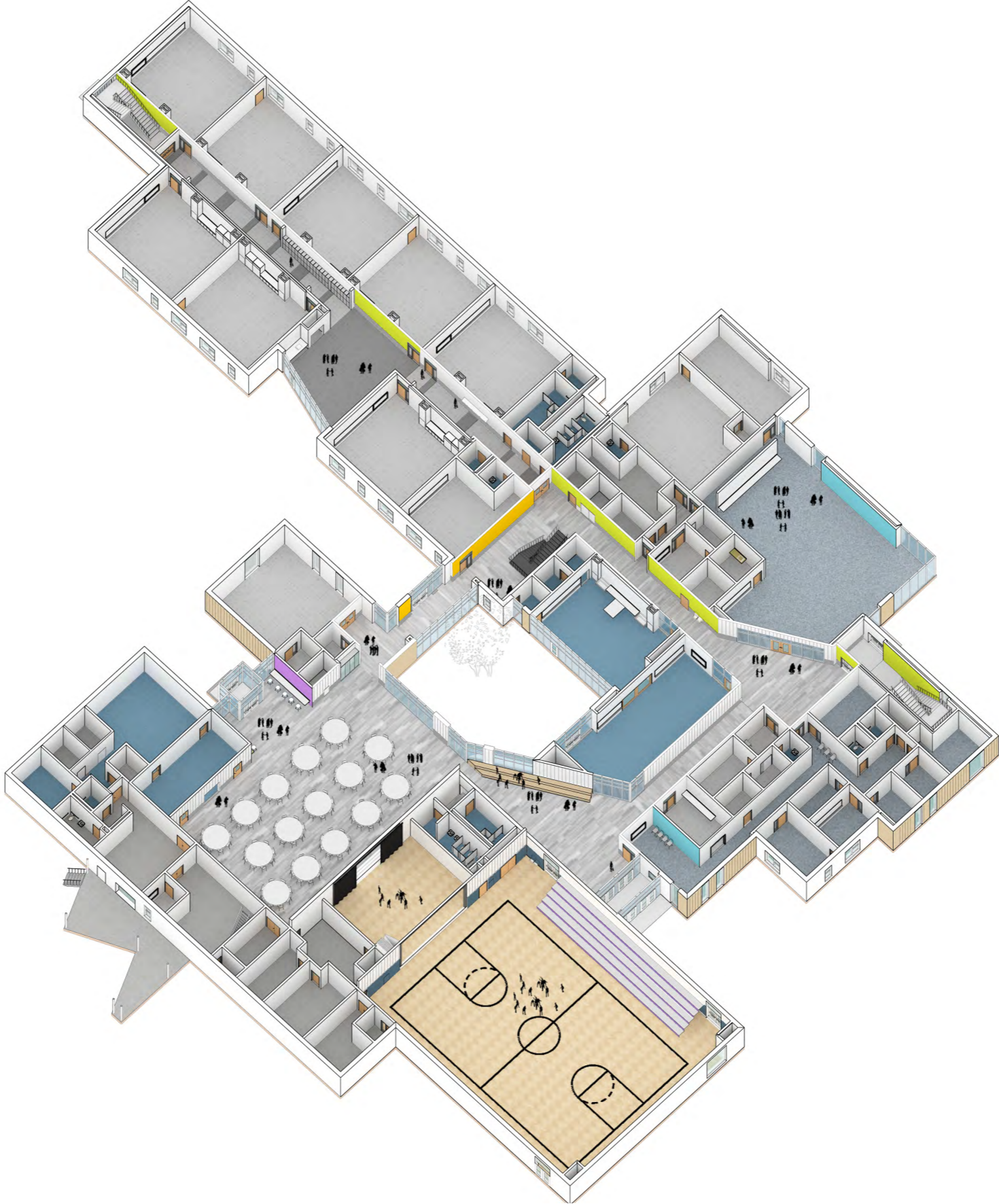


PROJECT MANAGEMENT **SMMA**
Massachusetts School Building Authority

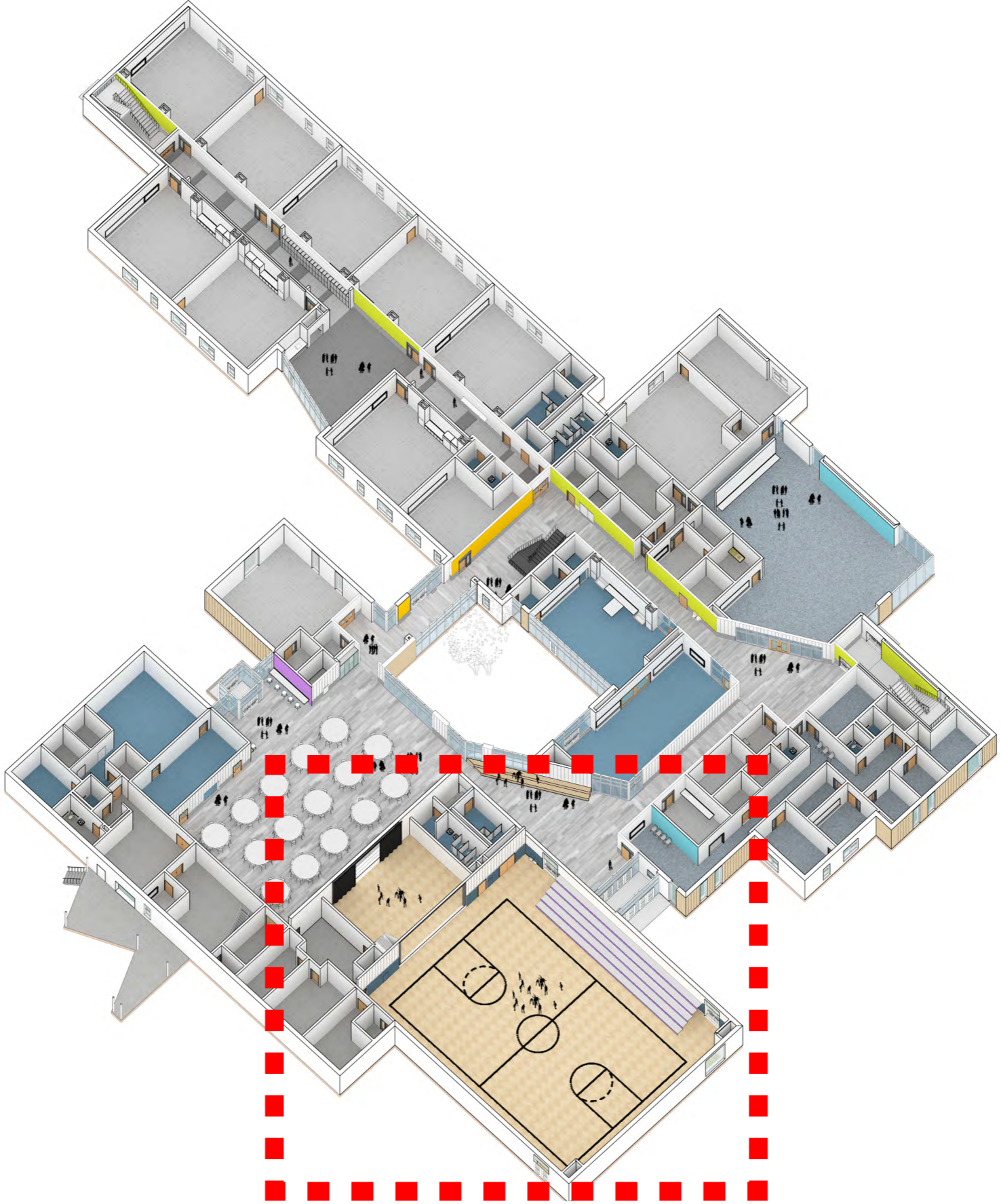
Flansburgh Architects

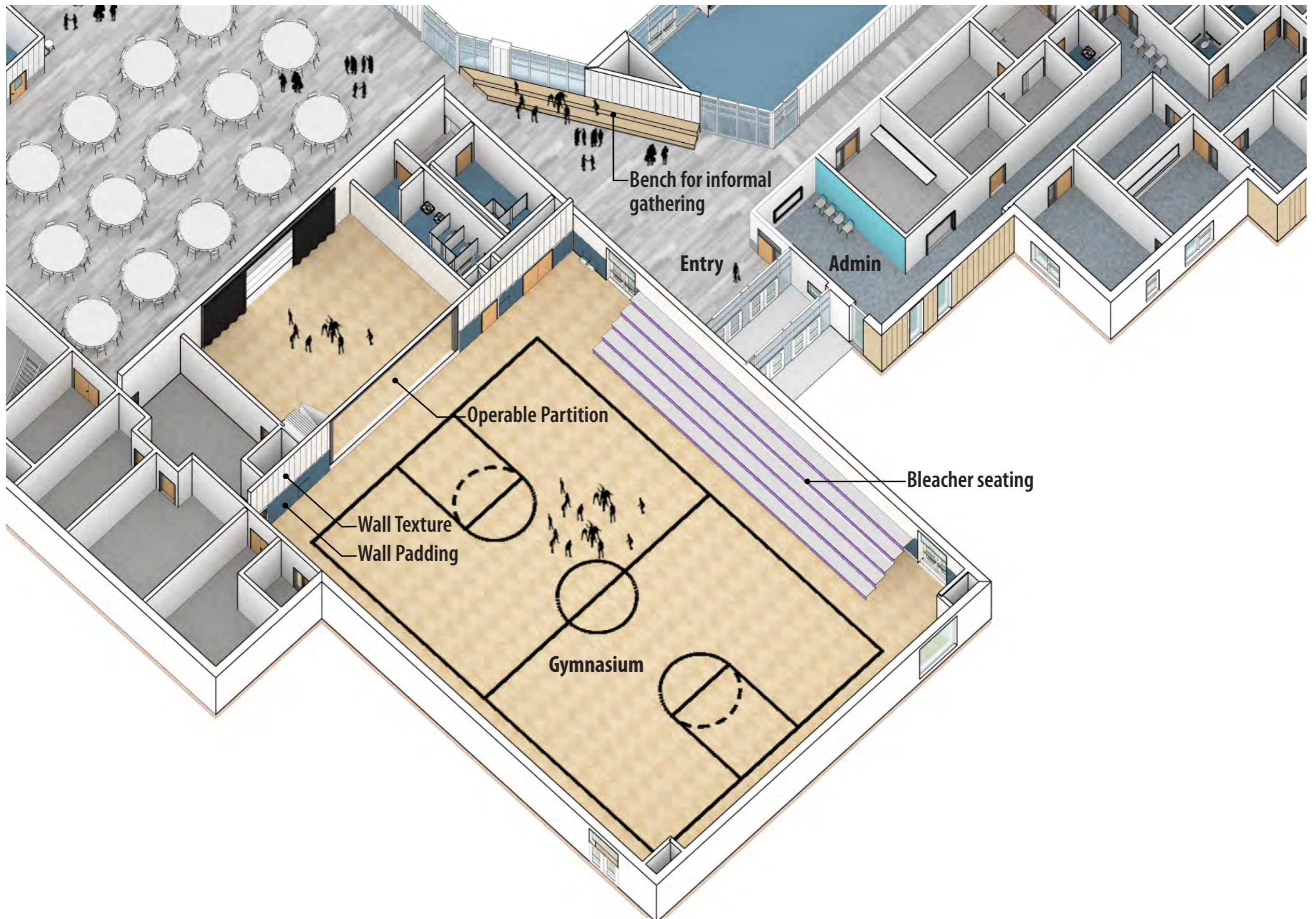
Interior Design

Level 1 Overview

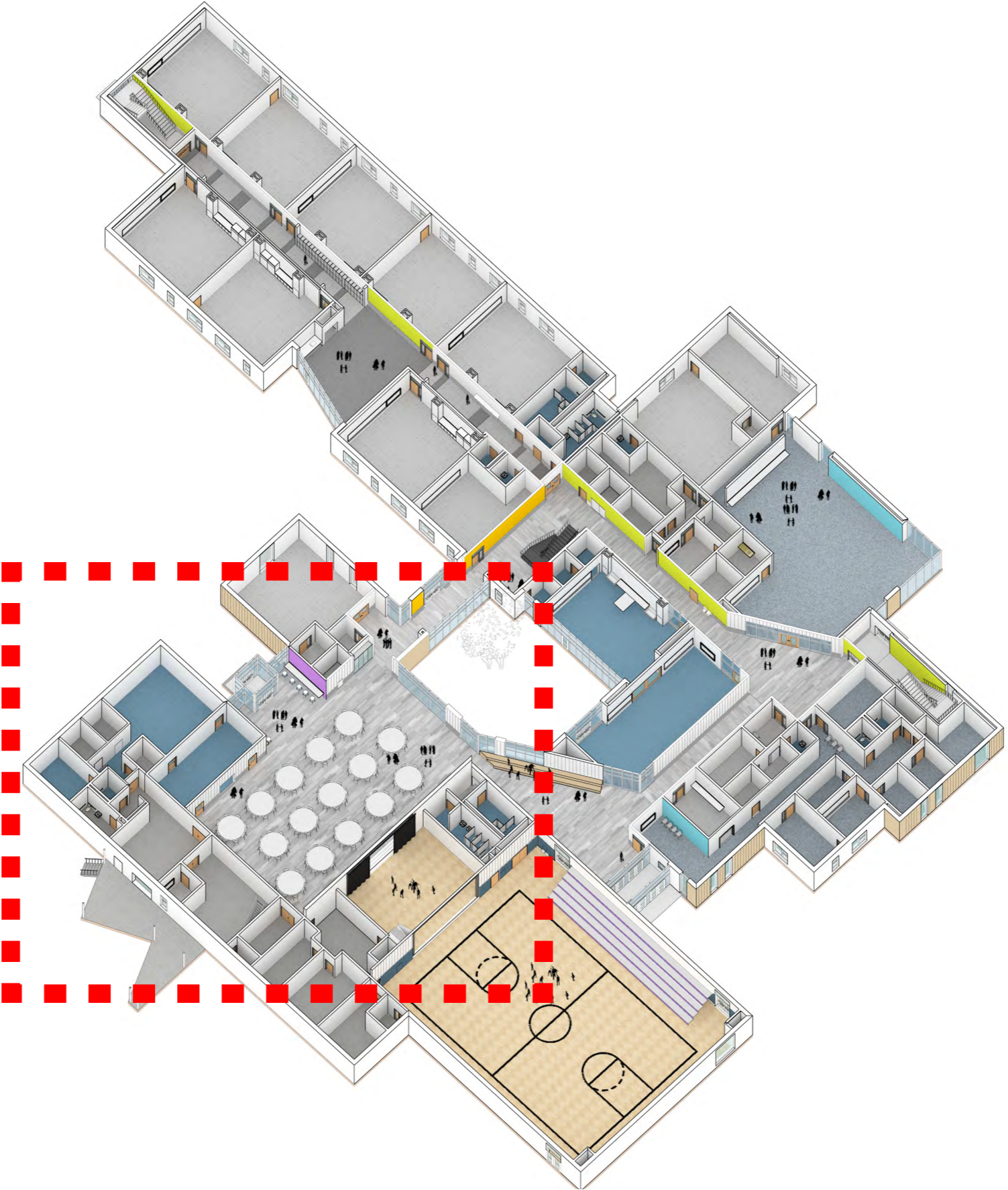


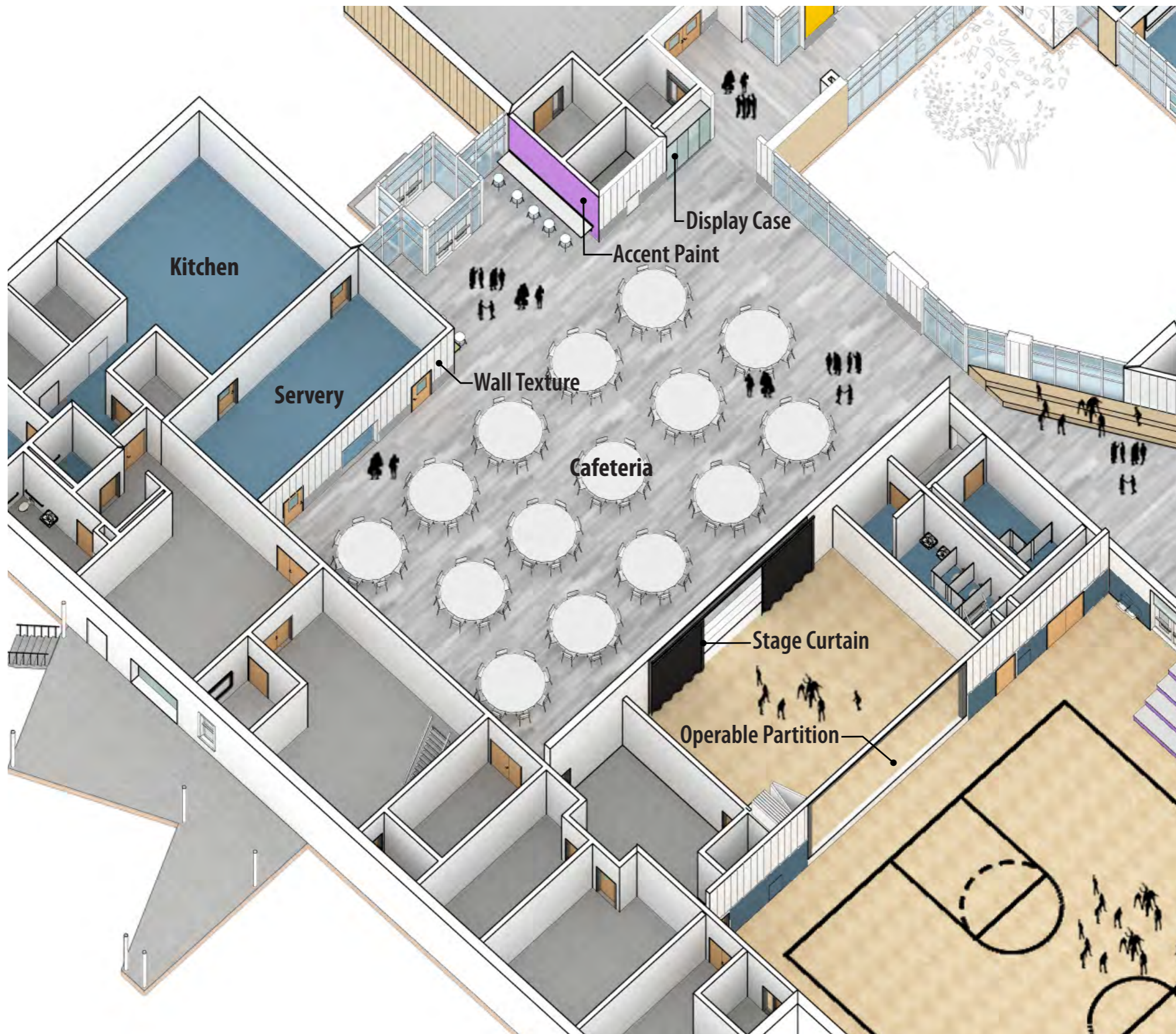
Gymnasium & Entry



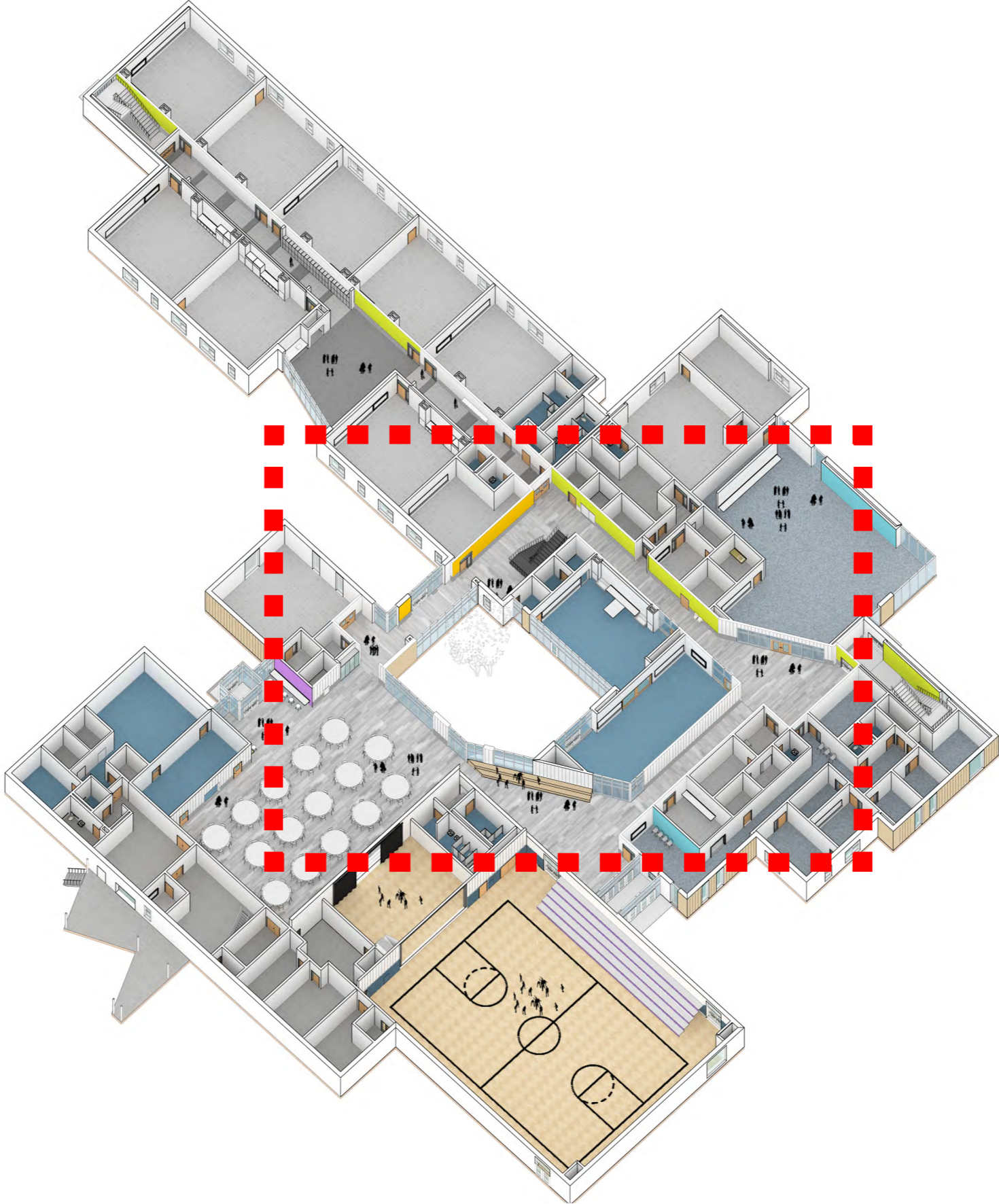


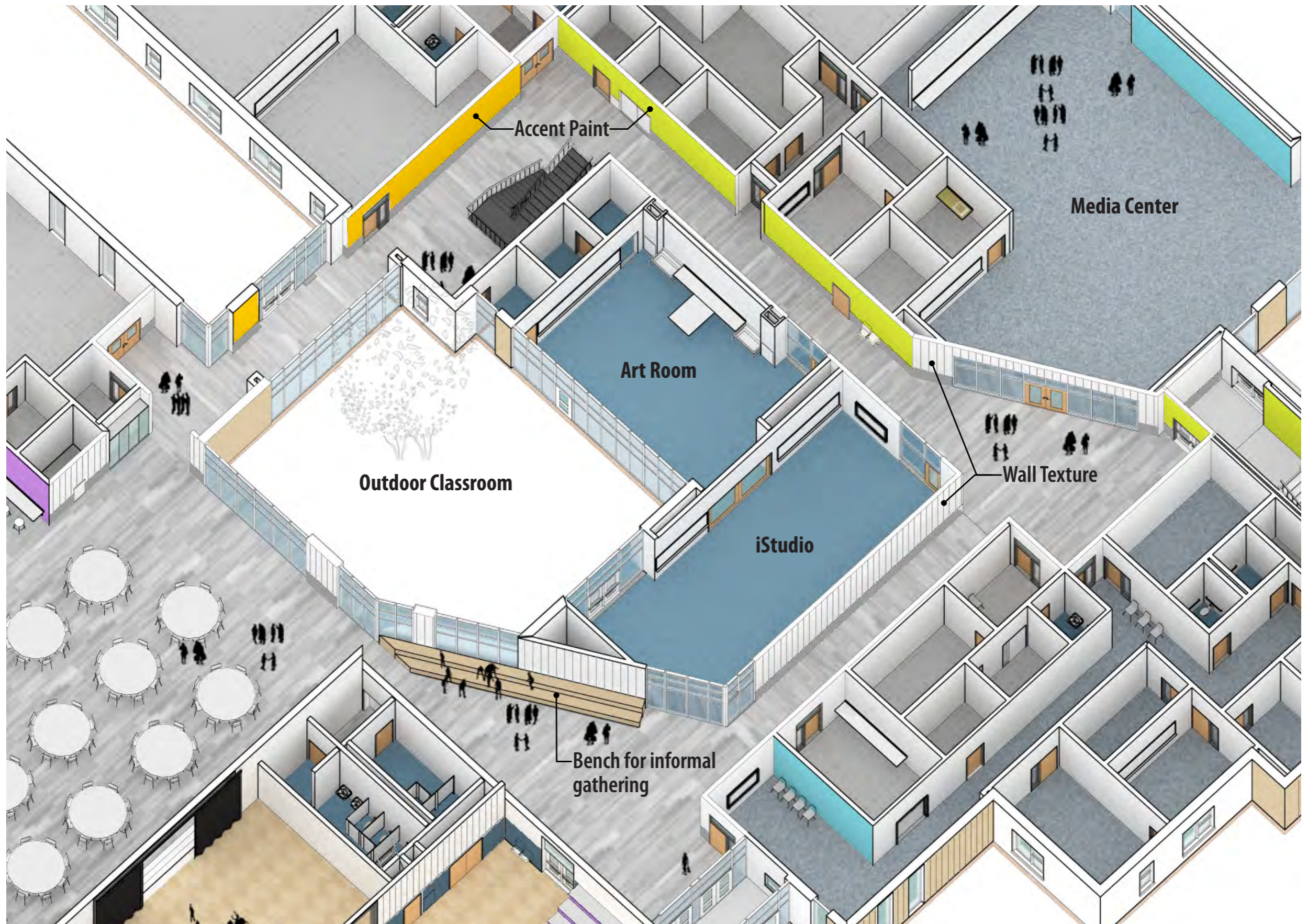
Cafeteria





Media Center / Art / iStudio





Energy Model

What is an energy model? Energy-modeling is the virtual or computerized simulation of a building or complex that focuses on energy consumption, utility bills and life cycle costs of various energy related items such as building envelope, HVAC systems, lights, and hot water.

Why do we do it? To determine the most cost effective system design approaches for a project and/or to calculate the design project's energy savings percentage in comparison to a baseline building.

- **Energy modeling was performed to determine that a dehumidification displacement ventilation system was the most cost effective design for the project.**
- **The energy model calculated that the design building has an annual Energy Usage Intensity (EUI) of 49.0 kBTU/s.f./year.**
- **The design dehumidification displacement ventilation system is 9% more efficient than the baseline overhead mixed-air VAV system for HVAC savings alone.**

The design system results in an annual expense savings (including maintenance) of \$13,279 resulting in a total life cycle savings of \$529,667 over the 30-year study period.

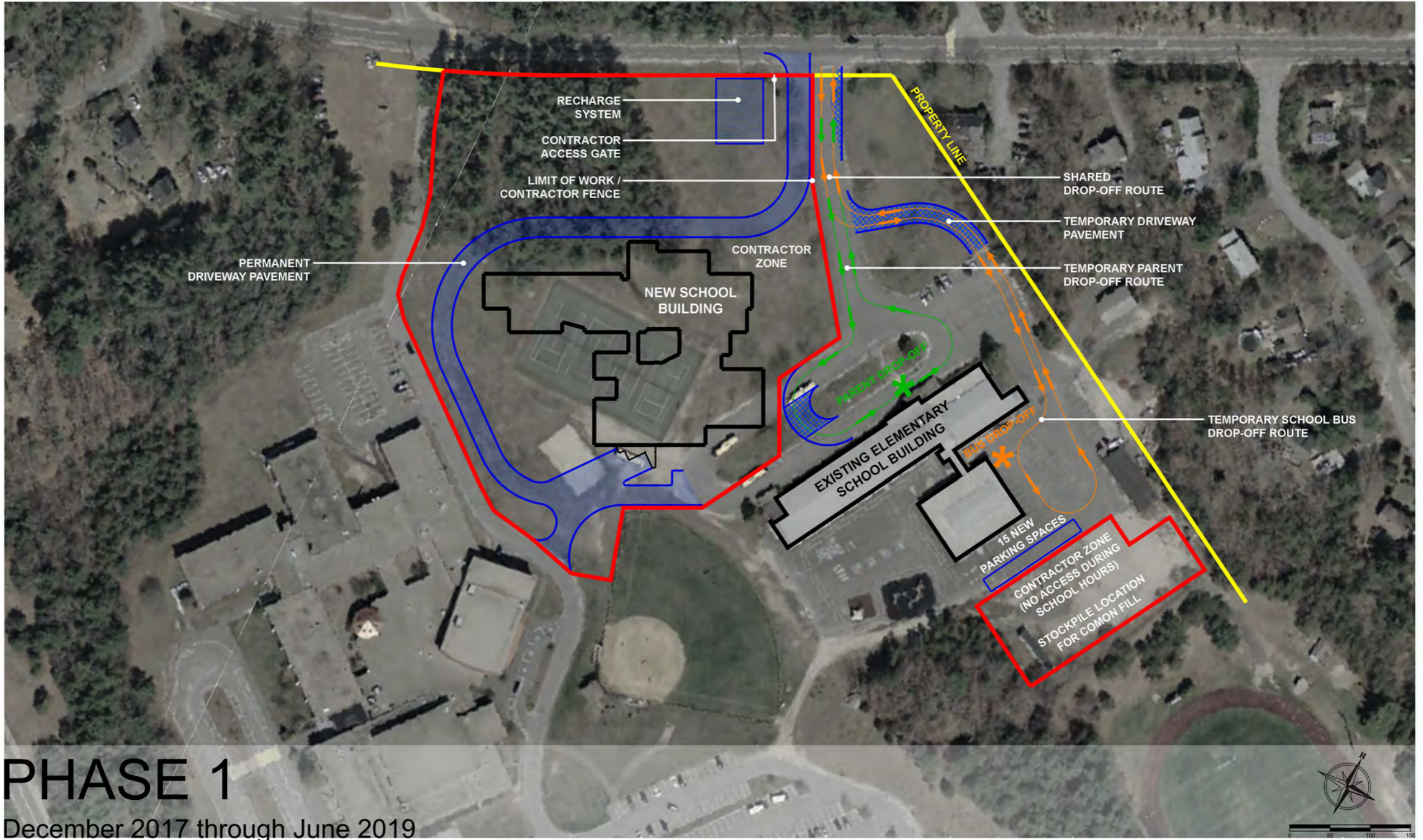
Baseline	System	Gross Capital Investment*	Annual Elec. Cons. (kWh)	Annual Gas Cons. (MBTU)	Annual Electric Cost	Annual Gas Cost	Combined Utility Cost	Annual Utility \$/s.f.	Annual kBTU/s.f. (EUI)	Annual Maint. Cost	Combined Annual Expense	Combined Expense Savings**	Total Life-Cycle Savings***	Discounted Payback (Years)****
-	1. Hot water coil heating/direct expansion cooling VAV RTU system with energy recovery wheels (where code required) with terminal VAV boxes with hot water reheat coils 2. Standard efficiency Hot water boiler plant	\$3,139,000	410,930	3,001.7	\$69,859	\$39,023	\$108,882	\$1.48	59.8	\$21,100	\$129,982	-	-	-

Option	System	Gross Capital Investment*	Annual Elec. Cons. (kWh)	Annual Gas Cons. (MBTU)	Annual Electric Cost	Annual Gas Cost	Combined Utility Cost	Annual Utility \$/s.f.	Annual kBTU/s.f. (EUI)	Annual Maint. Cost	Combined Annual Expense	Combined Expense Savings**	Total Life-Cycle Savings***	Discounted Payback (Years)****
1	1. Hot/chilled water coil induction units 2. Hot water heating/chilled water cooling 100% O.A. ventilating units with energy recovery serving induction units 3. Hot water heating/chilled water cooling VAV ventilating units with energy recovery with terminal VAV boxes with CO2/temperature/humidity controls providing full air-conditioning displacement ventilation 4. High efficiency hot water condensing boiler plant 5. High efficiency air-cooled chiller plant	\$3,324,300	492,520	2,316.4	\$83,728	\$30,144	\$113,872	\$1.55	54.3	\$18,475	\$132,347	-\$2,365	-\$248,497	N/A*****

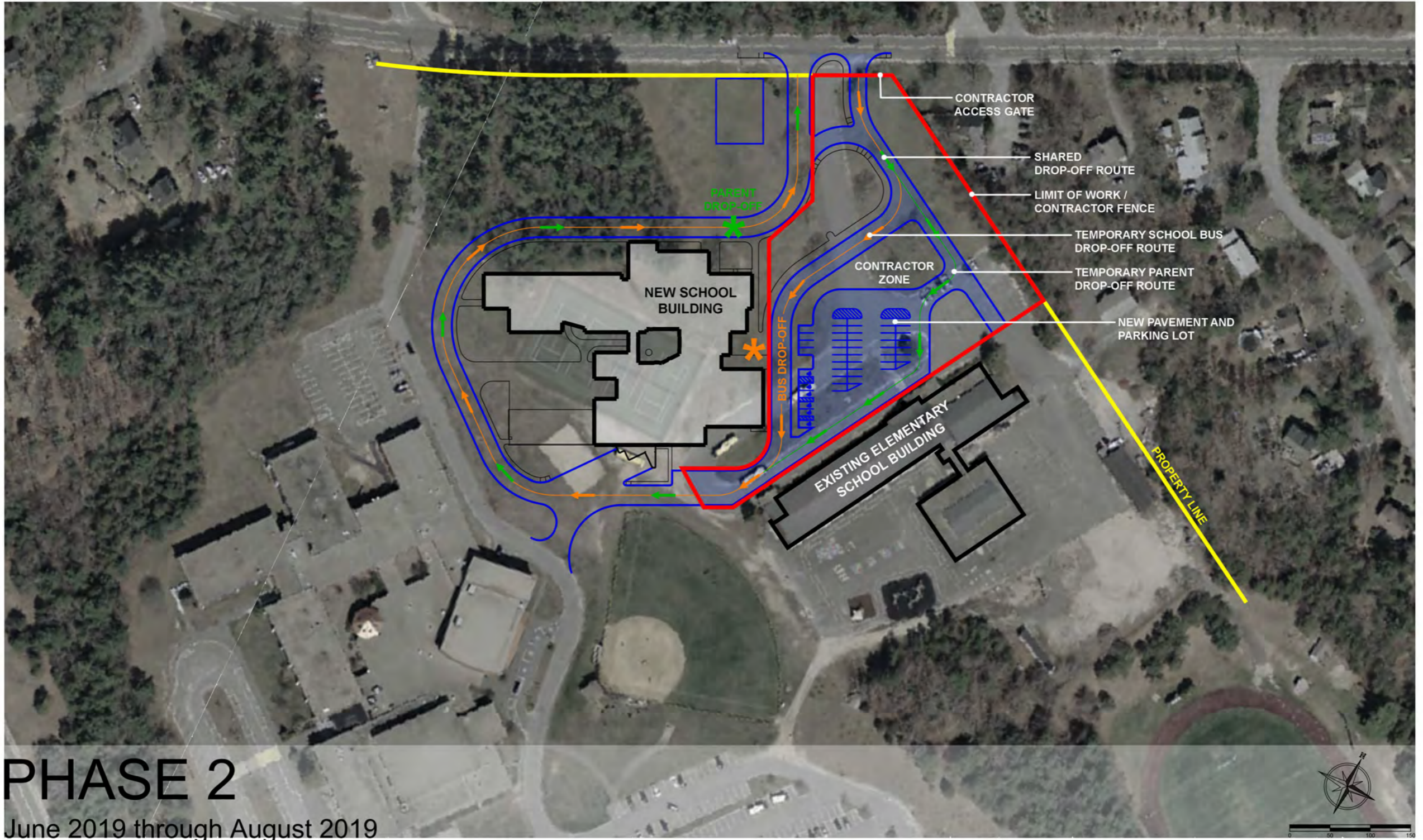
2	1. <u>Dehumidification</u> displacement ventilation diffusers and perimeter hot water heating radiation 2. Hot water heating/dx cooling 100% O.A. VAV ventilating units with energy recovery with terminal VAV boxes with CO2/temperature/humidity controls providing dehumidification displacement ventilation 3. Hot water heating/chilled water cooling 100% O.A. ventilating units with energy recovery with terminal chilled/hot water coil induction units 4. High efficiency hot water condensing central boiler plant 5. High efficiency air-cooled chiller plant	\$2,949,300	416,330	2,182.8	\$70,777	\$28,376	\$99,153	\$1.35	49.0	\$17,550	\$116,703	\$13,279	\$529,667	Instant*****
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3	1. Full air-conditioning displacement ventilation diffusers and perimeter hot water heating radiation 2. Hot water heating/chilled water cooling VAV ventilating units with energy recovery with terminal VAV boxes with CO2/temperature/humidity controls providing full air-conditioning displacement ventilation 3. Hot water heating/chilled water cooling 100% O.A. ventilating units with energy recovery with terminal chilled/hot water coil induction units 4. High efficiency hot water condensing central boiler plant 5. High efficiency air-cooled chiller plant	\$3,261,000	433,910	2,245.0	\$73,764	\$29,185	\$102,949	\$1.40	50.6	\$17,550	\$120,499	\$9,483	\$93,423	16
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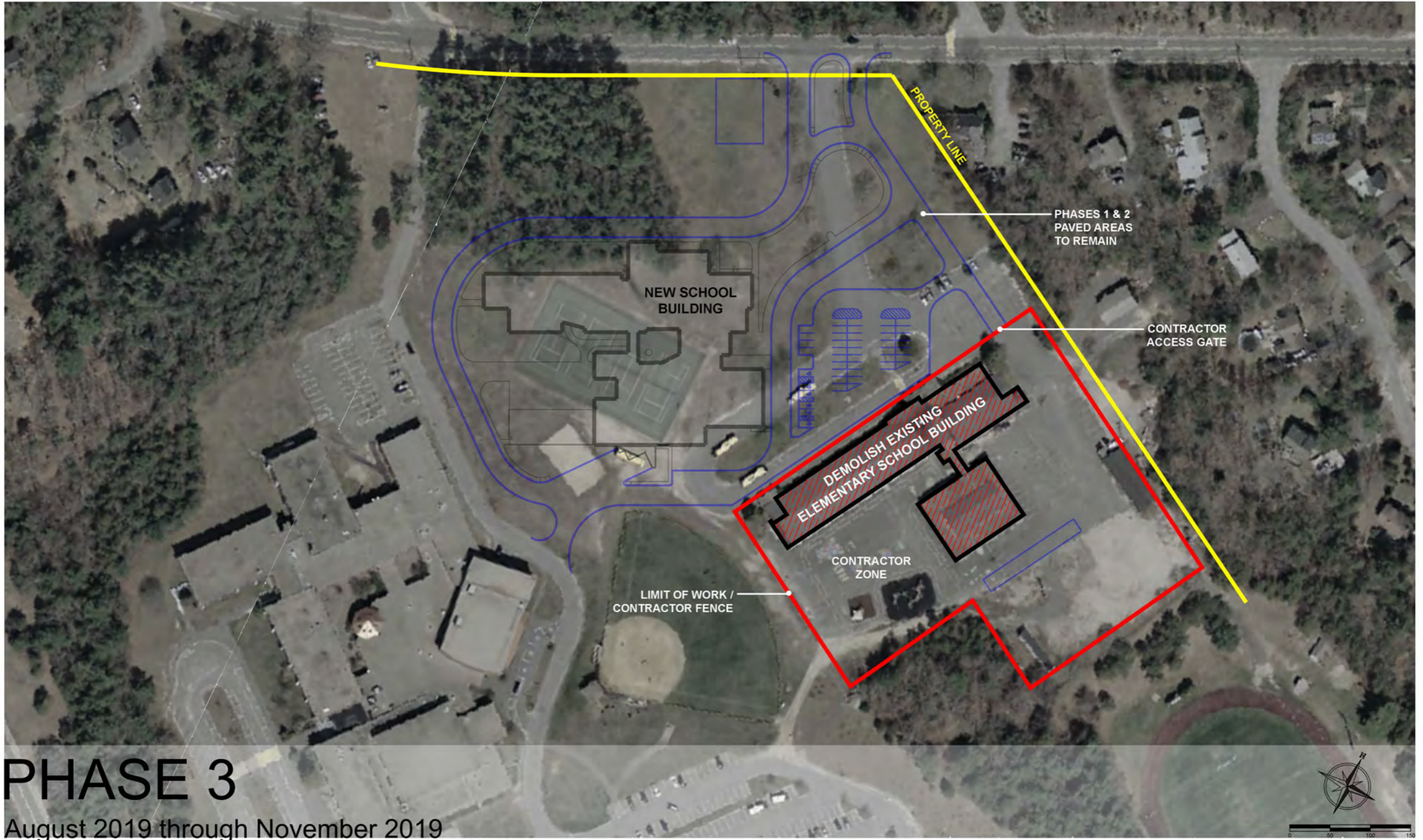
Updated Phasing Plans



PHASE 1 - December 2017 through June 2019



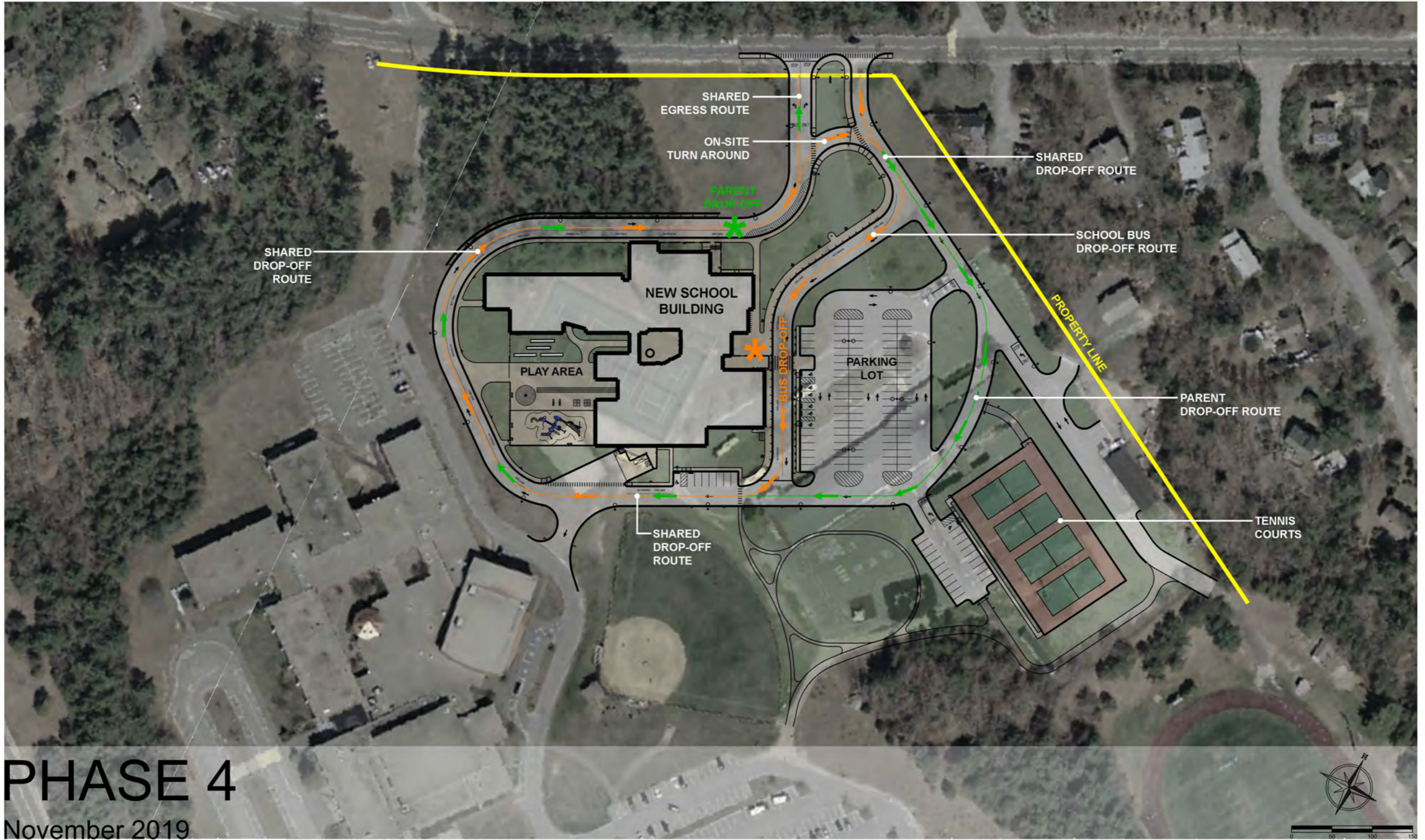
PHASE 2 - June 2019 through August 2019



PHASE 3

August 2019 through November 2019

PHASE 3 - August 2019 through November 2019



PHASE 4 - November 2019