PORTLAND PUBLIC SCHOOLS
OFFICE OF SCHOOL MODERNIZATION
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Date: December 17, 2019

To: School Board

From: Marina Cresswell, Senior Director, Office of School Modernization
Aurora Hymel, Ed.D., Senior Director, College and Career Readiness

Subject: Roosevelt Phase 4

BACKGROUND

Board Resolution 4852 (December 16, 2013) approved the Roosevelt High School Full Modernization Master Plan as part of the 2012 Capital Bond Program. The resolution authorized design for Common area capacities for 1,700 students and Classrooms for 1,350 students. The design was to utilize the Draft Comprehensive High School Area Program for a proposed total size of 223,000 square feet.

Board Resolution 4871 (February 3, 2014) adopted the District Education Specifications ("Ed Specs") for Comprehensive High Schools.

Board Resolution 4936 (June 23, 2014) approved the RHS Schematic Design, the commitment of additional funds, and initiating the Design Development phase of work. The resolution acknowledged the need for a revised total size of 235,000 square feet and directed staff to continue to explore opportunities for additional classroom space.

In **Spring 2015**, construction of Phase 1 of the Roosevelt High School Full Modernization project commenced. Three phases of construction were planned, in order to keep students on site while the school was being modernized.

Board Resolution 5131 (August 4, 2015) authorized the analysis of an alternative to the approved RHS Master Plan, to look at potential re-use of the existing Roosevelt Shop Building for conversion to a STEM and hands-on CTE work space. The Shop Building would have provided roughly 11,000 sf. In February 2016, it was "determined that a better location would be north and adjacent to the existing Roosevelt theater and Career and Technical Education (CTE) construction program."

Board Resolution 5242 (April 5, 2016) approved the amendment of the Approved Master Plan and Schematic Design of Roosevelt High School to include up to 10,000 additional square feet to expand available Science, Technology, Engineering, and Math ("STEM") as well as hands-on Career Technical Education ("CTE") work spaces. As stated in the resolution:

Recital F: The Board seeks to include up to 10,000 additional square feet of Makerspace. The first floor will house two new state-approved CTE programs of study-Manufacturing and Aviation/Transportation in partnership with local industry. A program run by a third party will be available to community members in the evenings. The upper floor will be a modern Makerspace open to the whole district as a PPS Makerspace HUB that will hold priority for Roosevelt students.

This new Makerspace per Resolution No. 5242 was intended to be built in addition to the existing Makerspace that was built as part of the Roosevelt modernization project financed through the 2012 capital bond. With the modernization of Roosevelt completed, there is currently approximately 11,000 square feet of Makerspace and career technology education, Career Related Learning, science labs and journalism. The resolution approved up to $5 million from 2012 Capital Bond to fund up to an additional 10,000 square footage for CTE/Makerspace. The sources of funding would be existing and future premium from bond sales.

Over the next two years, PPS staff worked with consultants and stakeholders to review potential development options, complete construction drawings sufficient to submit for building permit review, and acquire land use approval from the City of Portland.

In **September, 2017**, the District Education Specifications for Comprehensive High Schools was revised in collaboration with Portland Association of Teachers leadership. Recommended MakerSpace size was 1 room of 1,200 square feet. Recommended total Career Preparation / CTE classrooms and labs was 4,800 square feet, with quantity of rooms and specific square feet per room to be determined per site.

On **April 17, 2018**, there was a presentation to the Board's Finance, Audit and Operations (FAO) Committee on the status of the project by former Chief Operating Officer Jerry Vincent. Direction provided to staff at that meeting was to pause the current project planning efforts so that it could be informed by and coordinated with a district wide comprehensive CTE master plan that was expected to launch later that year.

On **August 28, 2018**, a bond program finance update was presented to the Board with a recommendation to allocate the initial $5M funding that had been set aside by passage of Resolution No. 5242 in 2016 back to the 2012 bond program to support current work (see attached presentation). This presentation also described, "the Roosevelt Maker Space as an outstanding decision that needs to be made. Staff will recommend a combination of funding sources to support this project."

ANALYSIS OF SITUATION AND STAFF PROPOSAL

While efforts towards a comprehensive CTE master plan were still underway in spring 2019, members of the Roosevelt community reached out to the District to determine when work on the planned 10,000 sf addition would begin. District leadership engaged with the Roosevelt school community in May to discuss their vision and needs for the addition and how the space would be constructed to meet both current and future programmatic needs. Over the past three years, student and community needs have evolved, and alignment work is occurring in the district. To adequately build out Roosevelt High School, it is important to understand numerous factors: the

original vision for the space, current CTE comprehensive construction pathway needs, and eventual requirements for additional science labs and classroom space at Roosevelt.

When Board Resolution 5242 in April 2016 was passed, it was intended to expand available Science, Technology, Engineering, and Math ("STEM") as well as hands-on Career Technical Education ("CTE") work spaces. Discussions had been held with a local manufacturer who was offering to partner in providing all of the equipment for a Manufacturing CTE space. An Aviation CTE was also considered a potentially attractive CTE pathway that would fit with the Manufacturing CTE. Neither CTE program was in place at Roosevelt at that time. The manufacturing partner dropped out of conversations, and the District chose not to move forward with an Aviation CTE program either. Discussions with the school community during the initial design of the 10,000 sf addition made it clear that, instead of the Manufacturing/Aviation CTE, the ground floor space would be better utilized as a larger Construction Technology CTE space. The design that was developed and received land use approval reflected this change; it is referred to below and in the attached presentation, as the Existing Design.

During discussions with the Roosevelt community, both in May and more recently, it has become clear that not all members of the community agree on terminology or pedagogy as it relates to the terms "STEM," "CTE," or "MakerSpace." This has created confusion in talking about how the 10,000 sf addition will be used to expand STEM and CTE work spaces at Roosevelt.

Currently there are a variety of offerings at Roosevelt that provide STEM and CTE learning for Roosevelt students. The current CTE offerings at Roosevelt are:

1. Construction Technology
2. Engineering Technology
3. Computer Science
4. Mass Communications & Media Studies
5. Multi-Media Theatre Arts

Students also have access to multiple STEM offerings at Roosevelt including Engineering and Computer Science programs. Roosevelt offers upper level math and science courses, including AP Biology, AP Calculus, AP Chemistry, Computer Science CTE Programs of Study, and Engineering CTE Programs of Study, which all support STEM education. Roosevelt also has dual credit programming through PCC in Engineering Technology, Multimedia Theatre Arts and Senior Inquiry (15 credits in the following: 3 credits Freshman Writing (Writing 121 in Oregon); 4 credits Social Science; 4 credits Science (exception: Oregon State University requires a lab science course); 4 credits Arts and Letters).

This understanding of what STEM and CTE offerings are available at Roosevelt is important in considering the role of a MakerSpace in the overall environment of hands-on learning. Outside of the tools and equipment that are already offered as part of CTE programs such as Construction Technology, MakerSpaces offer a place for *all* students to engage in STEM and Maker opportunities in a hands-on, creative environment with modern tools, equipment and supplies. MakerTechs, or certified MakerTeachers, manage each space, schedule work times with individual classes, and work with all interested teachers to create project-based learning opportunities that align with what students are learning in the classroom. Students have an

opportunity to engage with MakerSpaces on their own with drop-in times as well as in the classroom. Maker education offers a transformational approach to teaching and learning that attends to the real and relevant needs of learners and humans. It is an approach that positions agency and student interest at the center, asking students to become more aware of the design of the world around them, and begin to see themselves as people who can tinker, hack and improve that design. Maker education is fundamentally about approaches, mindsets, and community (MakerEd).

In support of expanding STEM and CTE opportunities at Roosevelt, and out of feedback from community, Roosevelt staff, and students, this staff proposal includes substantially increasing the size of Roosevelt MakerSpace/CTE Lab to 3,000 sf with adjoining flexible space connecting two classrooms totaling 1,600 sf (for a total allowable area of 4,600 square feet), increasing the size of the space used for the Construction Technology CTE program to 3,250 sf, and providing additional classroom space large enough to be used for science labs. Senior Inquiry, one of the courses noted above that provides STEM learning, will now have two classroom locations that are large enough to accommodate the full number of interested students. In this space, students will be able to access and have exposure to the tools and problem solving of STEM education.

In addition to the above, the staff proposal provides additional flexible classroom space to accommodate significant increases in enrollment that have occurred since the newly modernized campus has opened. The current enrollment at Roosevelt is 1,200 students. While staff is still working to refine enrollment projections, continuing with the current rate of enrollment growth could lead to Roosevelt having as many as 1,500 students in three years. Community feedback has indicated a strong desire for Roosevelt to be built to the same 1,700 target capacity as other 2012 Bond high school modernization projects. Although the 10,000 sf addition previously directed by the Board will not provide enough square footage to address a 1,700 target capacity, the additional flexible classroom spaces in the addition will provide some expansion opportunity to address potential enrollment over the next few years.

FISCAL IMPACT

Resolution 5242 allocated $5M of 2012 bond funds to the development of Makerspace at Roosevelt High School. Using 2012 bond funds, $382,661 has been spent on design to date, with an additional $113,960 committed but not yet invoiced, for a total of $496,621. The 2012 bond program currently estimates completing all other school modernization projects such that the $4,503,379 remaining from the allocated $5M may be funded from 2012 bond program funds. Staff recommends using $4,503,379 from the 2012 Bond funds to fund this project.

COMMUNITY ENGAGEMENT

Through a series of student, teacher, parent, and community sessions during the month of November, and in collaboration with Principal KD Parman, various scenarios were presented to the community for input. Community feedback from those sessions has been provided in an attached document. While there was not strong consensus from the community on a single scenario, there were several themes that arose in the feedback. Those themes have been summarized as part of the community feedback document.

The input from the community sessions informed the proposed plan to implement Resolution #5242, indicating a 10,000 square foot addition to Roosevelt for adequate CTE and Makerspace. District staff provided transparency on the process to address Resolution #5242, while aligning with the PPS vision, graduate portrait, strategic plan, College and Career/ CTE pathway direction and the Next Generation Science Standards.

Feedback from the Roosevelt community also shows a strong desire for Roosevelt High School to be built to a capacity that accommodates the increasing population of students. Staff acknowledge that the implementation of Resolution #5242 alone, while providing some additional capacity and addressing space needs for CTE and MakerSpace, will not bring Roosevelt up to the same 1,700 target capacity as other 2012 Bond high school modernization projects.

TIMELINE FOR IMPLEMENTATION / EVALUATION

If the Board approves the staff proposal, staff anticipates needing roughly 20 months to complete design documents, permitting and construction. Target occupancy of the completed addition would be Fall 2021.

This timeline is possible because the Existing Design previously received land use approval, and the proposed options are consistent with that land use approval. Any deviations from the land use (such as adding more floors or changing the footprint) would require re-submitting the project for a new land use approval, and would add significant time to the project.

BOARD OPTIONS WITH ANALYSIS

Staff is bringing the Existing Design, Scenario 1, Scenario 2, and the Staff Recommendation to the Board to consider. The Existing Design, based on the presentation made to the Board in Spring of 2018, includes a 10,000 square foot addition to Roosevelt that has a 3,460 sf Construction Technology CTE lab on the first floor and a 4,105 sf Maker's Lab District Hub on the second floor.

Staff is not recommending the Existing Design option for the following reasons:

1. The enrollment of Roosevelt has increased and using space in the addition for a district hub would take away dedicated space for Roosevelt students.
2. The Ed Spec for district MakerSpace is 1,200 sf and the educational programming that takes place in a MakerSpace does not require 4,105 sf.
3. The current Construction Technology CTE space in the existing building that would be vacated by a move to the addition would provide ample space to house a MakerSpace/CTE Lab and already includes all of the necessary infrastructure to support the equipment needs, including ventilation, outdoor access, and heavy electrical outlets.
4. While actual capacity increases would depend on operational utilization rates, a rough calculation of additional capacity shows this option only providing capacity of 50 students. This is the lowest of all of the options.

Scenario 1 suggests converting the current MakerSpace into a 1,161 sf classroom, converting the current 3,016 sf Construction Technology CTE space into a MakerSpace/CTE Lab, adding a partition wall between two existing classrooms to make space for Senior Inquiry. An additional

10,000 sf building would be built with a 3,250 sf Construction Technology CTE space on the first floor; the second floor would include two 1,250 sf science classrooms and an 800 sf general education classroom.

Staff is offering Scenario 1 for the following reasons:

1. This option adds 1,961 sf of general education classroom space; 2,800 sf of science lab space; and adds a net area of 2,089 sf to the Construction Technology CTE and MakerSpace/CTE labs.
2. This option provides flexible learning spaces that can support STEM programming, CTE programming, science labs, and other needs expressed by the school such as a larger classroom for Senior Inquiry classes.
3. This option solves concerns around expanded CTE space, expanded MakerSpace, and a focus on science labs for increased enrollment.
4. While actual capacity increases would depend on operational utilization rates, a rough calculation of additional capacity shows this option providing capacity of 120 students.

Scenario 2 suggests converting the current MakerSpace into a 1,161 sf science classroom and converting the current 3,016 sf Construction Technology CTE space into the MakerSpace. An additional 10,000 sf building would be built with a 3,250 sf Construction Technology CTE space on the first floor; the second floor would include four 850 sf general education classrooms, with a flexible partition wall between two of the classrooms for conversion into a larger Senior Inquiry classroom if desired.

Staff is offering Scenario 2 for the following reasons:

1. This option adds 3,400 sf of general education classroom space; 1,161 sf of science lab space; and adds a net area of 2,089 sf to the Construction Technology CTE and MakerSpace/CTE labs.
2. This option provides flexible learning spaces that can support STEM programming, CTE programming, science labs, and other needs expressed by the school such as a larger classroom for Senior Inquiry classes.
3. This option solves concerns around expanded CTE space, expanded MakerSpace, and flexible classroom space for increased enrollment.
4. While actual capacity increases would depend on operational utilization rates, a rough calculation of additional capacity shows this option providing capacity of 150 students.

The Staff Recommendation includes everything from Scenario 2, and adds another flexible partition wall between two existing classrooms directly north of what would become the new MakerSpace/CTE Lab (currently the Construction Technology CTE space). It would also add an interior window and connecting door between the MakerSpace/CTE Lab and the existing classrooms north of the Lab. Please see below for more information on the Staff Recommendation.

CONNECTION TO BOARD GOALS

Board Goal 4: By the spring of 2022, Portland Public Schools graduates, who are underserved students of color, will move from 50.3% (current 2018-2019 baseline) to 56% successfully completing one or more of the post-secondary indicators.

The post-secondary indicators are as follows: a) Successful completion (C or better) of 3 or more Advanced Placement courses, b) Successful completion (C or better) of 3 or more International Baccalaureate courses, c) Successful completion (C or Better) of 3 or more Dual Credit courses, or d) Successful completion of Career and Technology Pathway (2 or more courses in the same path). e) Successful achievement of the seal of biliteracy. AP foreign language: 3 or above II. IB foreign language: 4 or above III. SLIP: 6 or above in both Writing and Speaking IV. STAMP: 6 or above in all of Reading, Writing, Listening, Speaking.

STAFF RECOMMENDATION

As noted above, the Staff Recommendation will convert the current MakerSpace into a 1,161 sf science classroom and convert the current 3,016 sf Construction Technology CTE space into the MakerSpace/CTE Lab. An additional 10,000 sf building would be built with a 3,250 sf Construction Technology CTE space on the first floor; the second floor would include four 850 sf general education classrooms, with a flexible partition wall between two of the classrooms. Another flexible partition wall will be installed between two existing classrooms directly north of what would become the new MakerSpace/CTE Lab (currently the Construction Technology CTE space). A connecting door and a window would be installed between the MakerSpace/CTE Lab and classroom spaces, to create flexibility to utilize the north classrooms as MakerSpace/CTE Lab expansion (increasing total MakerSpace/CTE Lab to 4,600 sf).

The Staff Recommendation creates several opportunities, and mitigates several constraints, for Roosevelt students:

1. The Construction Technology CTE program does not currently have enough space to teach the wide range of skills used in commercial construction. Moving the Construction Technology CTE program into the ground floor of the addition will provide enough space for it to become a true commercial construction CTE program, with opportunities to learn welding, plumbing, electrical and wood framing. Possible construction projects include Tiny Houses, public shelters, and remodels of an existing house. The Construction Technology CTE has also been a very sought-after CTE program at Roosevelt and has had to turn students away due to space constraints. The expanded space will provide opportunities to enroll more students in the space.
2. The current MakerSpace, at 1,161 sf, is too small to be used most effectively. Equipment has to be stored away due to space constraints, making it less efficient in creating projects. Moving MakerSpace to the current Construction Technology CTE space will more than double the size of the MakerSpace/CTE Lab to 3,016 sf, while still maintaining the ground-level, industrial access to the outdoor courtyard. The current Construction Technology CTE space already has the infrastructure necessary for the equipment-heavy MakerSpace/CTE Lab. Direct exterior access to the MakerSpace/CTE Lab also allows potential for community use with a future community partner.
3. Construction Technology CTE and MakerSpace/CTE Lab will both be within close access to and on the same floor as the theater, which will allow for continued use of those spaces in creating stage pieces.
4. The current MakerSpace, once vacated, will be available for Roosevelt administration to use as a science lab. This location is close to all of the other Roosevelt science labs, making for operational efficiency. The current MakerSpace is also directly adjacent to the

existing Engineering CTE space, allowing for potential operational efficiencies in conjunction with that program.

5. Four classrooms on the upper floor of the addition, with an operable partition between two of them, will provide increased student capacity and administrative flexibility to schedule the spaces as needed. One option that Roosevelt administration is considering is the potential to move other classroom-based CTE programs to these classrooms, to create a CTE Hub at that area of the school. The operable partition would also allow two of the classrooms to be turned into a larger space that could accommodate Senior Inquiry classes or even science labs.
6. Early installation of an operable partition at the two existing classrooms north of the new MakerSpace/CTE Lab would allow that space to be used for Senior Inquiry classes while the new addition is being built. It would also provide flexibility to create an additional "clean" MakerSpace/CTE Lab adjacent to the new MakerSpace/CTE Lab, as needed.

Staff is recommending the Board accept the revisions to Resolution 5242 as defined in the attached Resolution 6015.

As a member of the PPS Executive Leadership Team, I have reviewed this staff report.

CA *(Initials)*

ATTACHMENTS

A. Community Meeting Notes
B. RHS Phase IV Studies and Staff Recommendation

ROOSEVELT PHASE IV COMMUNITY FEEDBACK:

11/5/19 Principals Coffee, 11/6/19 Community Meeting, 11/7/19 Teachers and Students Meeting

Feedback from the meetings noted above has been grouped into themes, with specific comments noted under each theme. Comments were heard from individuals or small groups providing feedback at the meetings and does not suggest consensus of the larger community. Comments may be paraphrased, with the intent to remain as true as possible to original language and ideas expressed.

Theme: Roosevelt students need access to real-world experiences and industry standard equipment in our CTE and MakerSpace.

- Our demographics require spaces where kids learn job skills in MakerSpace.
- Dog houses and chicken coops are not going to work long term. Commercial construction, steel frame construction and concrete is where the future lies.
- Need to have enough space to build tiny homes; public service project could be for emergency shelters.

Theme: Parents value flexibility to meet the needs of Roosevelt educators in addressing a changing enrollment.

- I am less interested in hearing about Franklin and Grant; I want to know how the proposals in front of us work for RHS students.
- Roosevelt needs long term, not trendy.
- Have teachers seen this? What do they think, do they think it will meet student needs? What option are they leaning towards?
- Any plan that's days old has the opportunity to be outdated. The decision right now should be to do what is best for RHS in the long term and meets today's needs. Our needs today are not the same as they were 6 years ago. What is appropriate for our students should be determined by the people here everyday. Teachers, students, the experts up front.
- Classrooms provide more flexibility.
- Focus should be on classrooms.
- We should not confuse intentions of future curriculum with just a room.

Theme: There is a strong desire for teaching of science and technology, but not always agreement on terminology or pedagogy.

- I don't understand why we would use the term "Makers Lab" where everyone else in the nation uses "STEM."
- I'm disappointed you haven't explained the original approach based on the importance of STEM. The MakerSpace is not a robust STEM program.
- We are here tonight to talk about STEM and CTE, and it's been dropped from this.
- The purpose of STEM is to get them to discover options; in order to do that, you need space for all of the equipment. We should sit down and draw all of the equipment and see if it fits.
- You left out Technology teachers and they are a core part of STEM.
- My son is in multiple technology and engineering classes here at Roosevelt. Do you see MakerSpace and STEM as interchangeable?

Theme: The initial bond process didn't meet the needs of Roosevelt students, and the proposed Phase IV will not solve all current/future needs.

- The MakerSpace will not have the manufacturing equipment but Franklin has it.
- I don't trust when you talk about intentions because maybe you won't be here. Additional classrooms won't happen for a long time.
- This is putting a band-aid on it. The classroom spaces being proposed will not meet the needs. You need spaces for 600 students, you should be adding portables.
- I want the band-aid while we wait.
- We want more classroom space and more STEM Maker's Space -- both.
- Even if we accept the parameter of 10,000 sf, we still need a vision of what additional space would look like.
- Many years a volunteer and I have kids here. My kids always want to go to other schools because they have what Roosevelt doesn't have.

It is also noted that there were several alternative ideas provided on how to expand Roosevelt High School for greater capacity (when funding is available to do so). Those ideas included the following:

- Add a third or fourth floor to the 10,000 sf addition.
- Expand the second floor of the 10,000 sf addition to cantilever out a couple feet, with the intent of providing larger science labs.
- Turn the existing Construction CTE space into classrooms, move the Construction CTE to the ground floor of the addition, and keep everything else as planned (District Hub MakerSpace on upper floor of addition, Roosevelt-specific MakerSpace where it is).
- Add portables.

ROOSEVELT HS ADDITION STUDIES / DEC 17, 2019

INCREASE CAPACITY

+ From existing capacity to 1700 total student capacity to be more aligned with 2017 Ed Spec

CAREER TECHNICAL EDUCATION

+ Increase size of Construction CTE space
+ Increase size of Maker's Lab

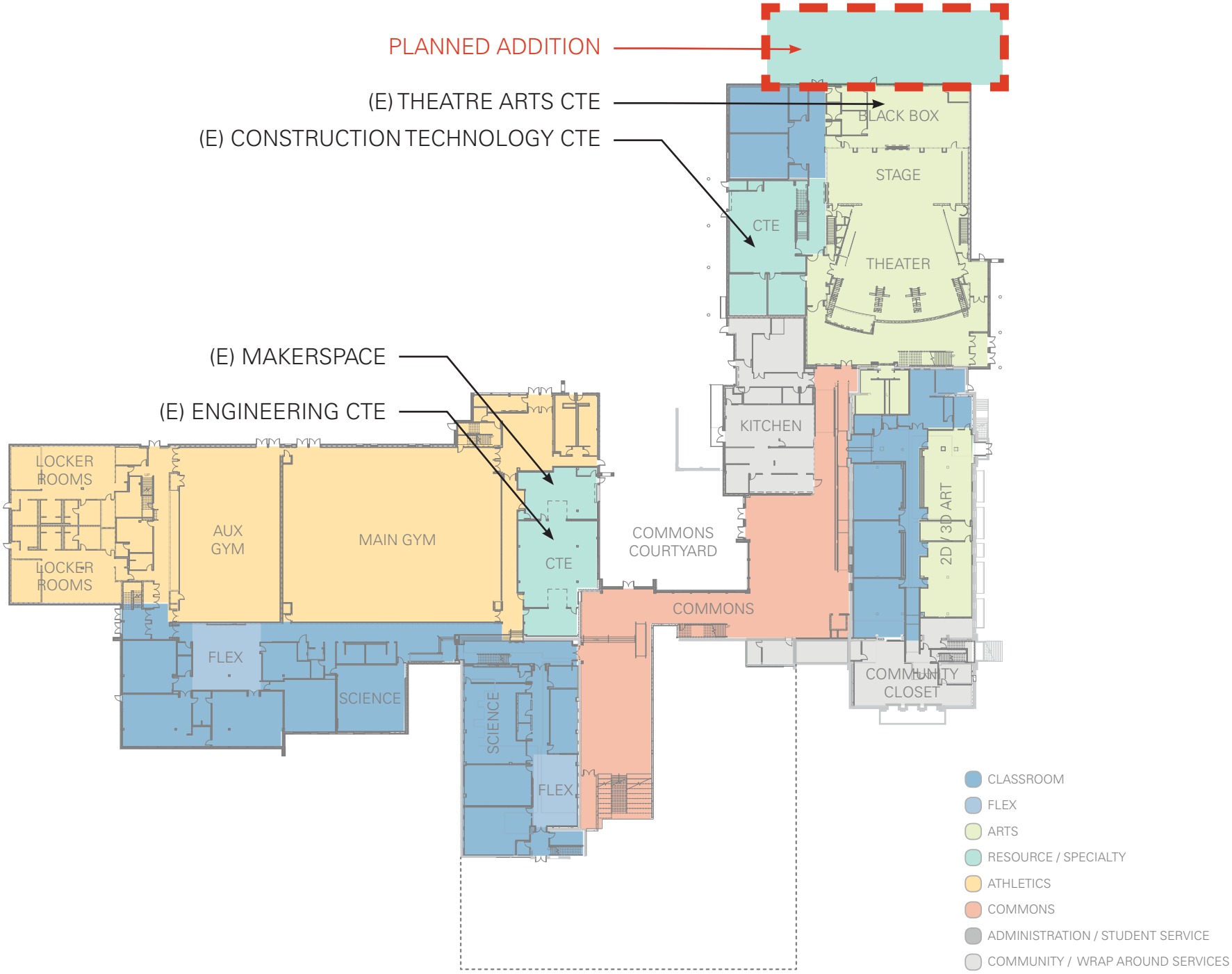
OTHER NEEDS

+ Large flexible space for 50 student senior inquiry

OTHER CONSIDERATIONS

+ Equity
+ Safety & Security
+ Design Cohesiveness

EXISTING RHS / GROUND FLOOR



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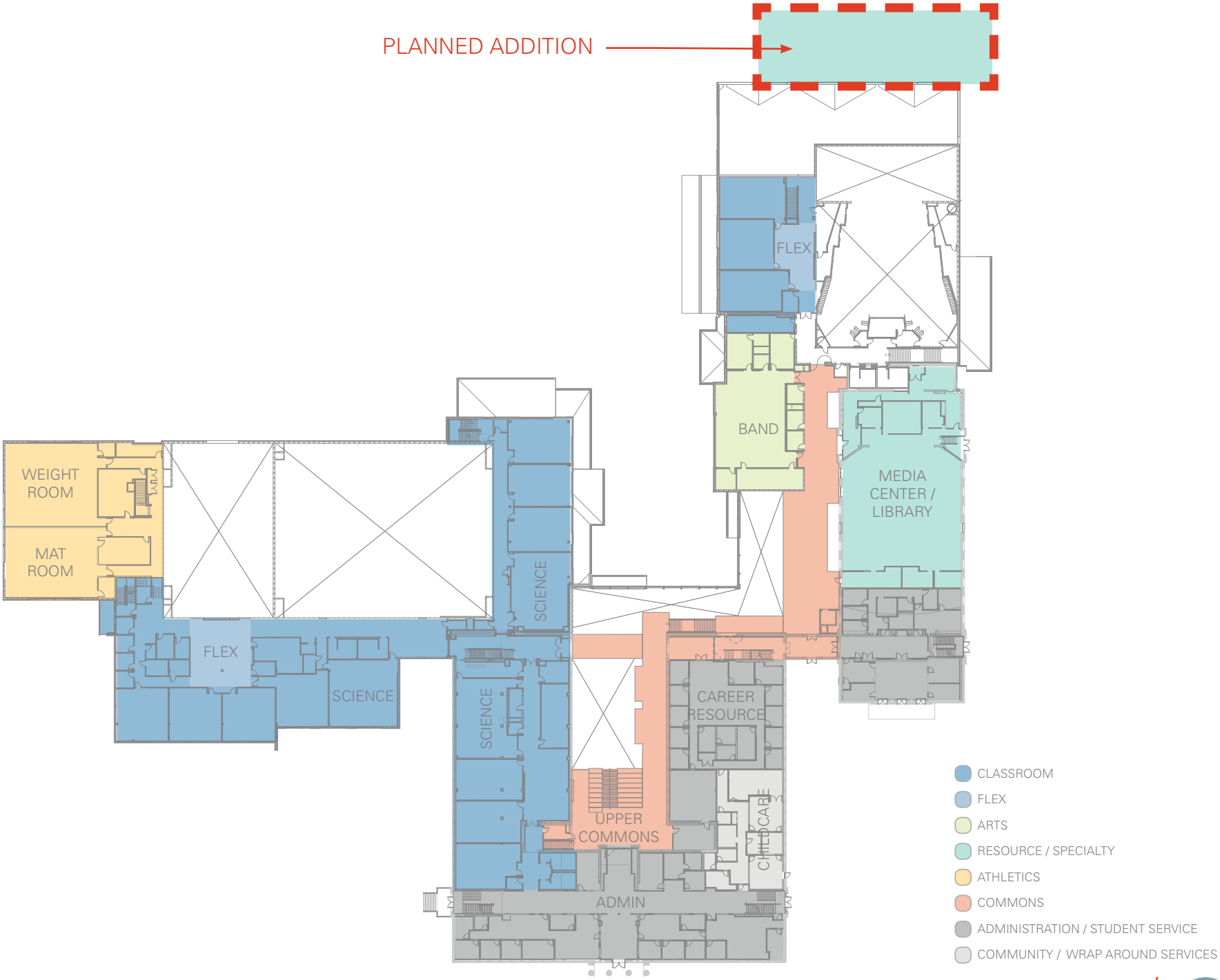
EXISTING RHS / FIRST FLOOR



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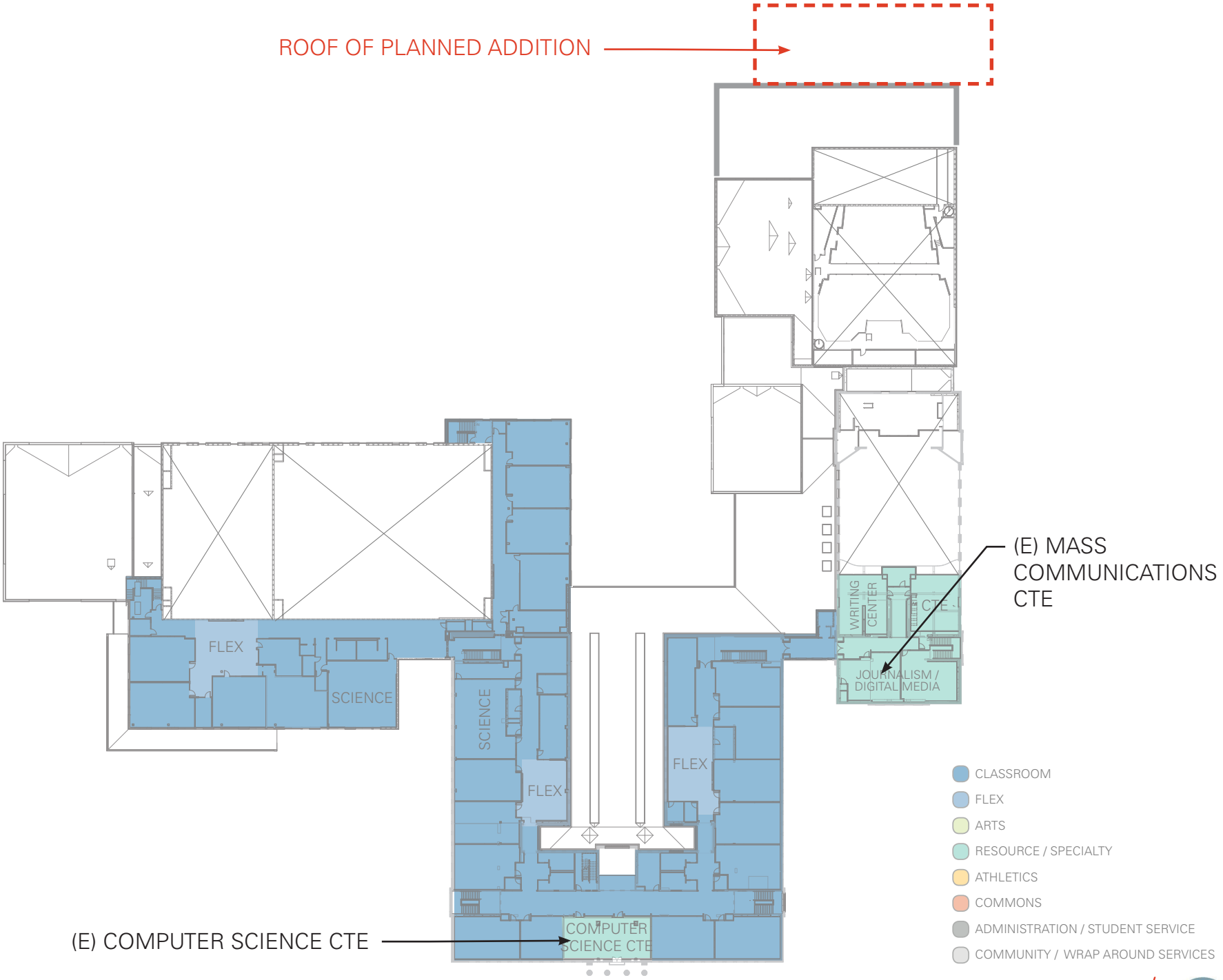
EXISTING RHS / SECOND FLOOR



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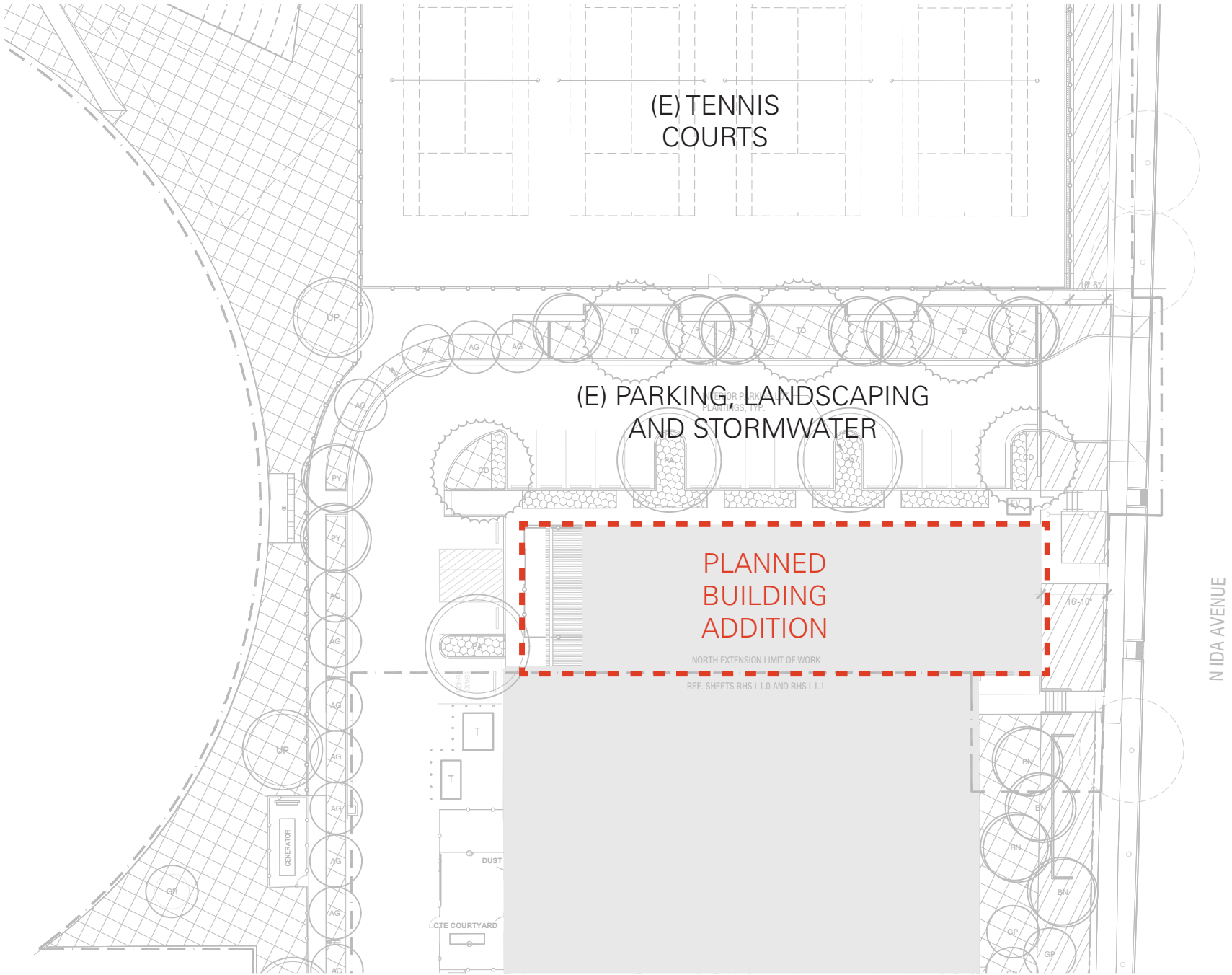
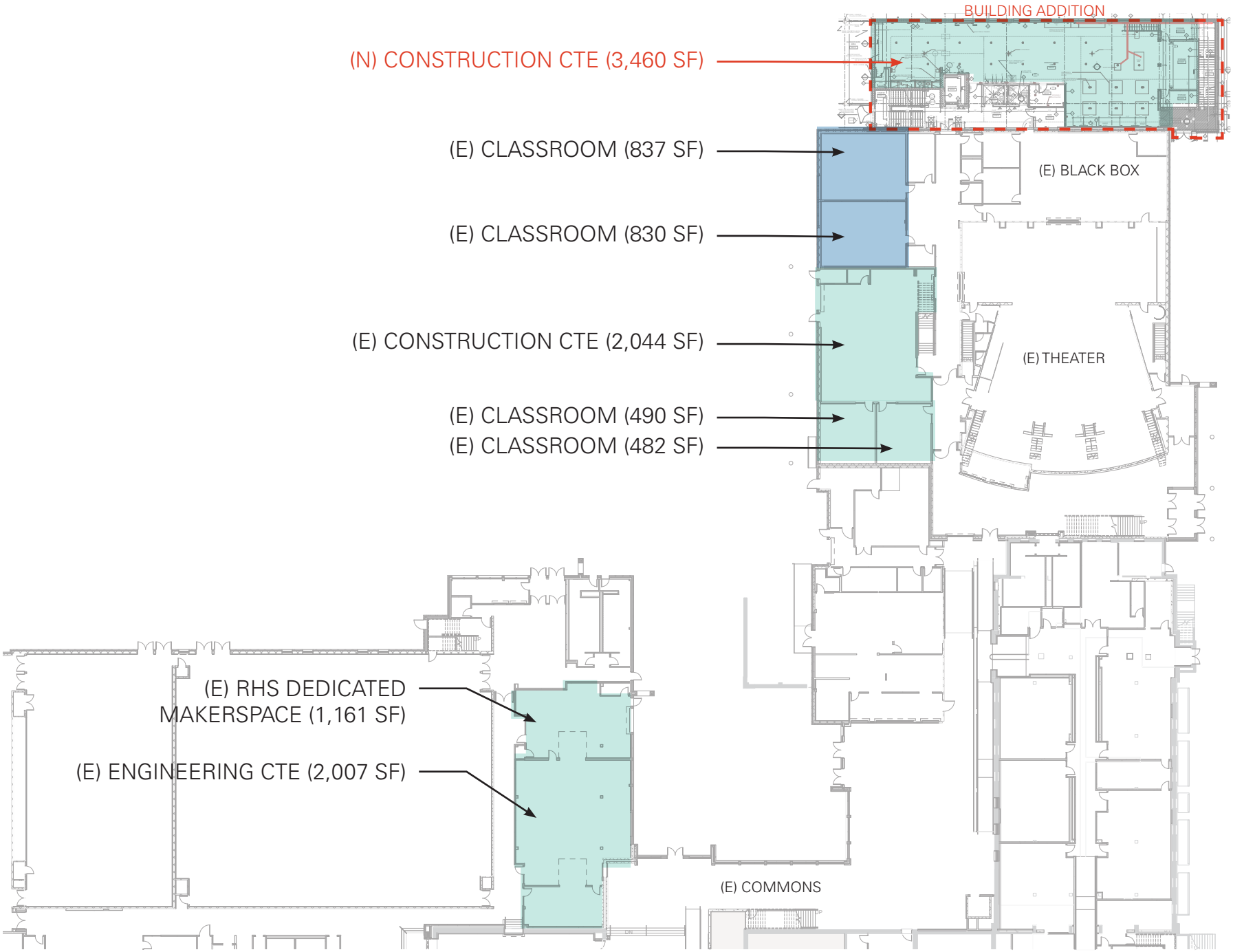

(E) TENNIS COURTS
(E) PARKING, LANDSCAPING AND STORMWATER
PLANNED BUILDING ADDITION
NORTH EXTENSION LIMIT OF WORK
REF. SHEETS RHS L1.0 AND RHS L1.1
N IDA AVENUE
GENERATOR
DUST
CTE COURTYARD

EXISTING DESIGN / ADDITION WITH CONSTRUCTION CTE & MAKERSPACE

EXISTING DESIGN / GROUND FLOOR



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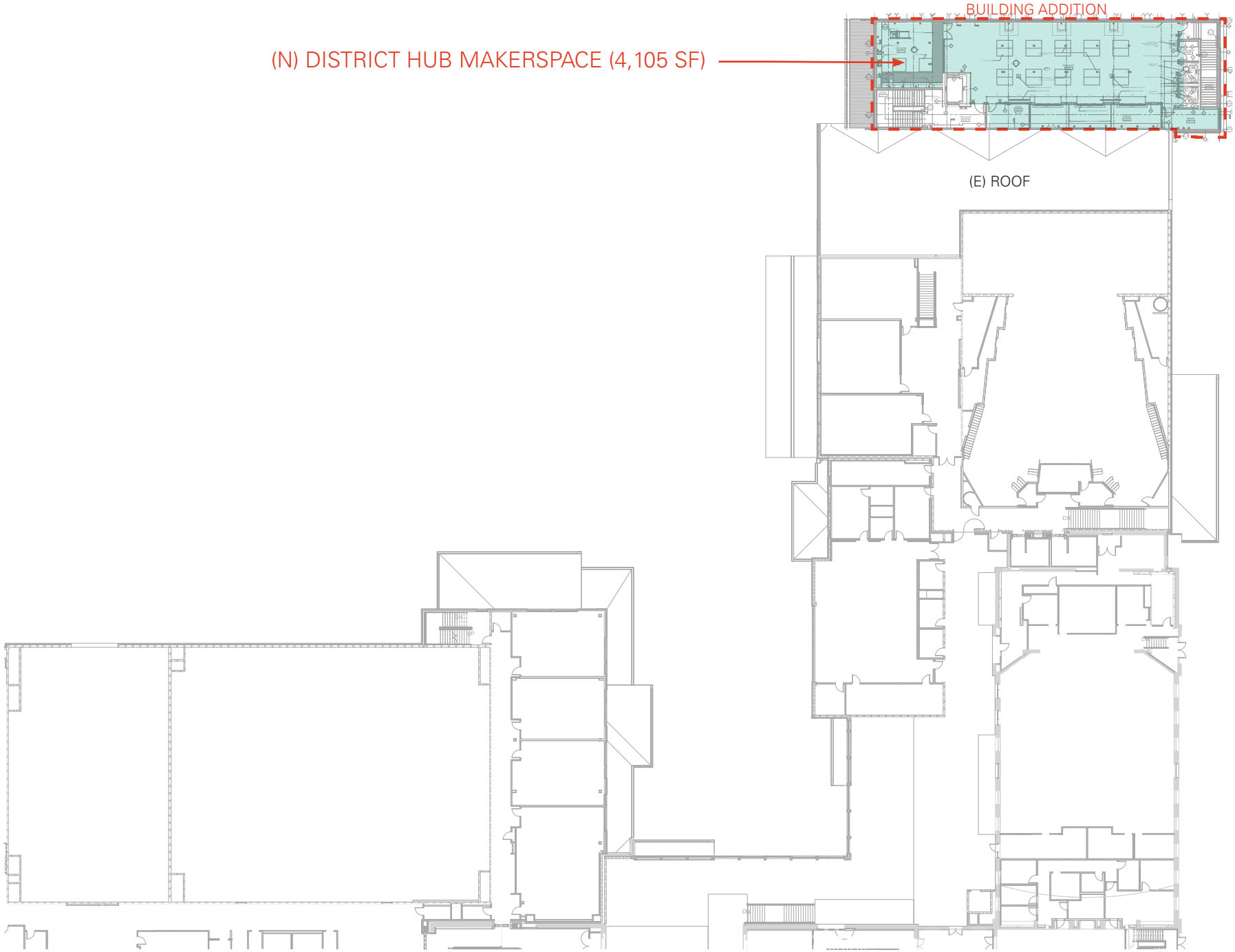
EXISTING DESIGN / FIRST FLOOR



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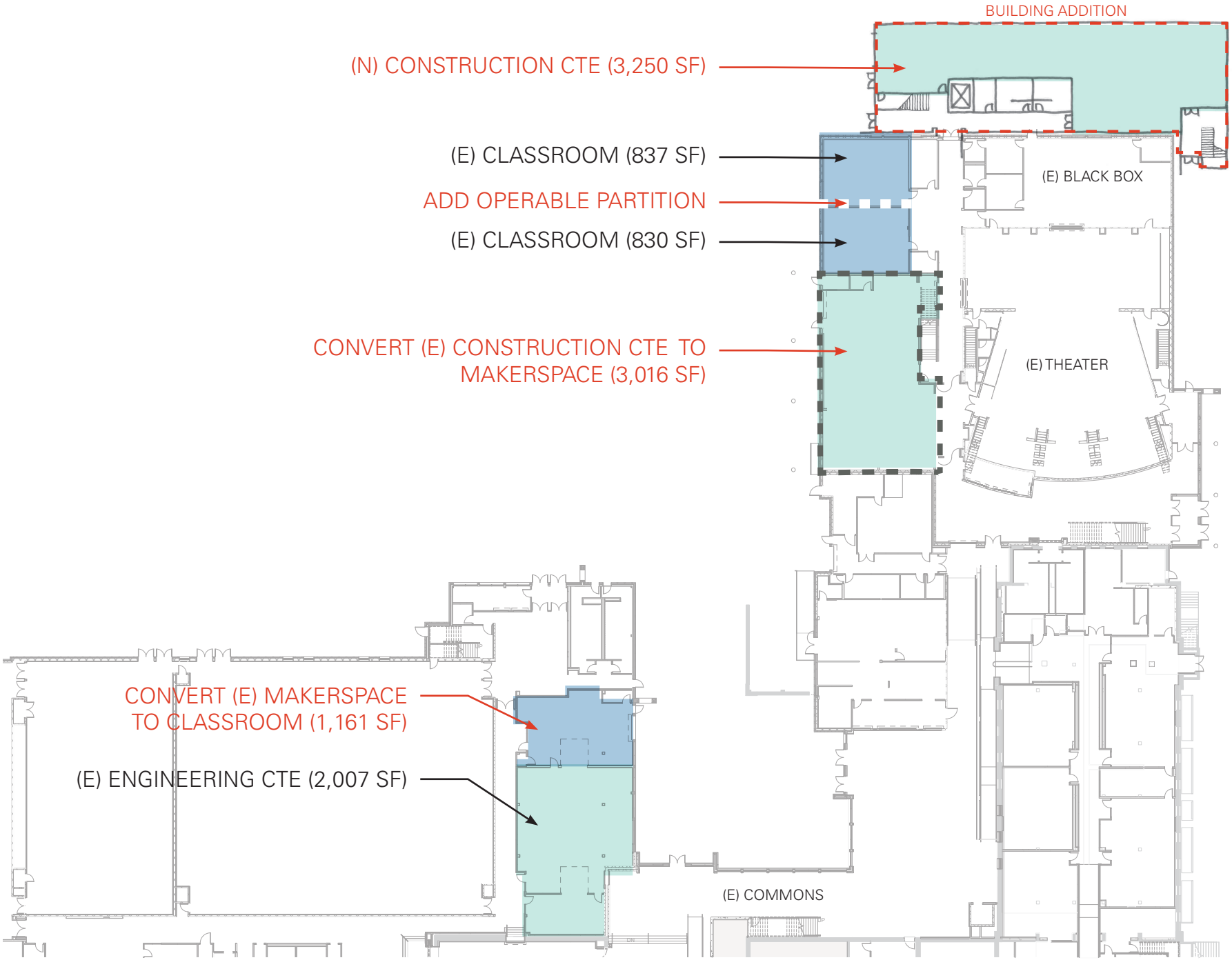
SCENARIO 1 / ADDITION WITH CONSTRUCTION CTE, SCIENCE LABS AND MAKERSPACE RELOCATED

SCENARIO 1 / GROUND FLOOR



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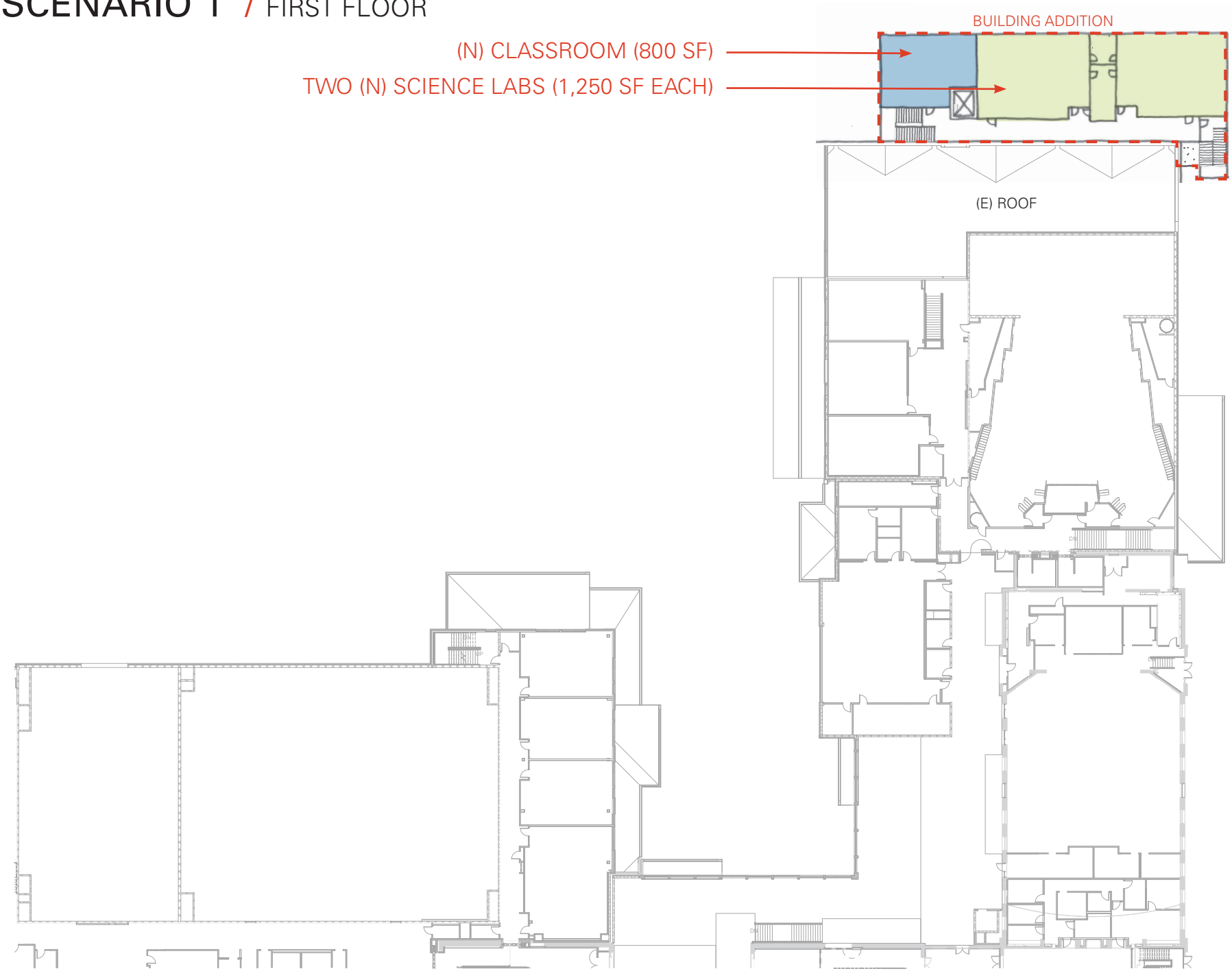
SCENARIO 1 / FIRST FLOOR



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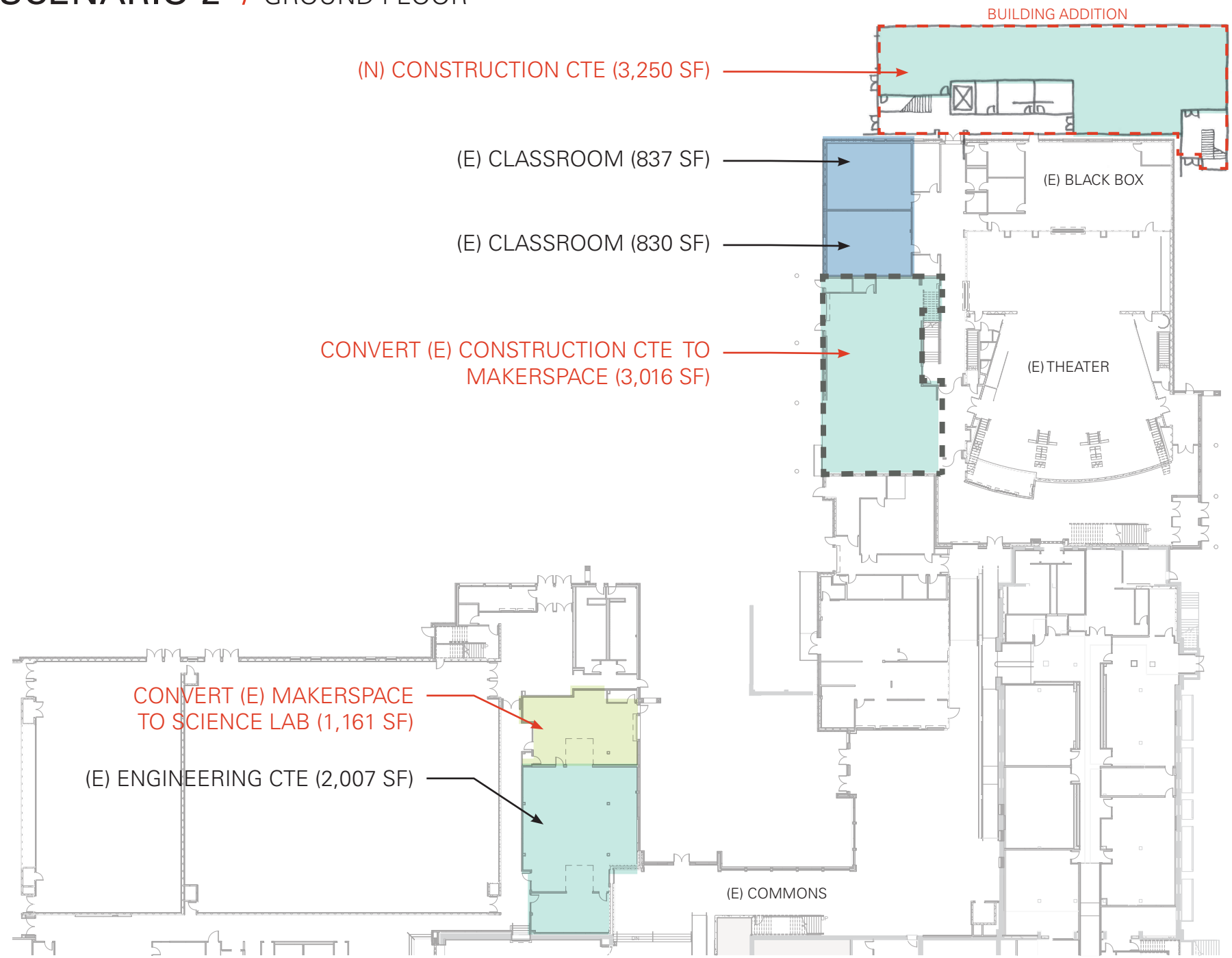
SCENARIO 2 / ADDITION WITH CONSTRUCTION CTE, GEN ED CLASSROOMS, AND MAKERSPACE RELOCATED

SCENARIO 2 / GROUND FLOOR



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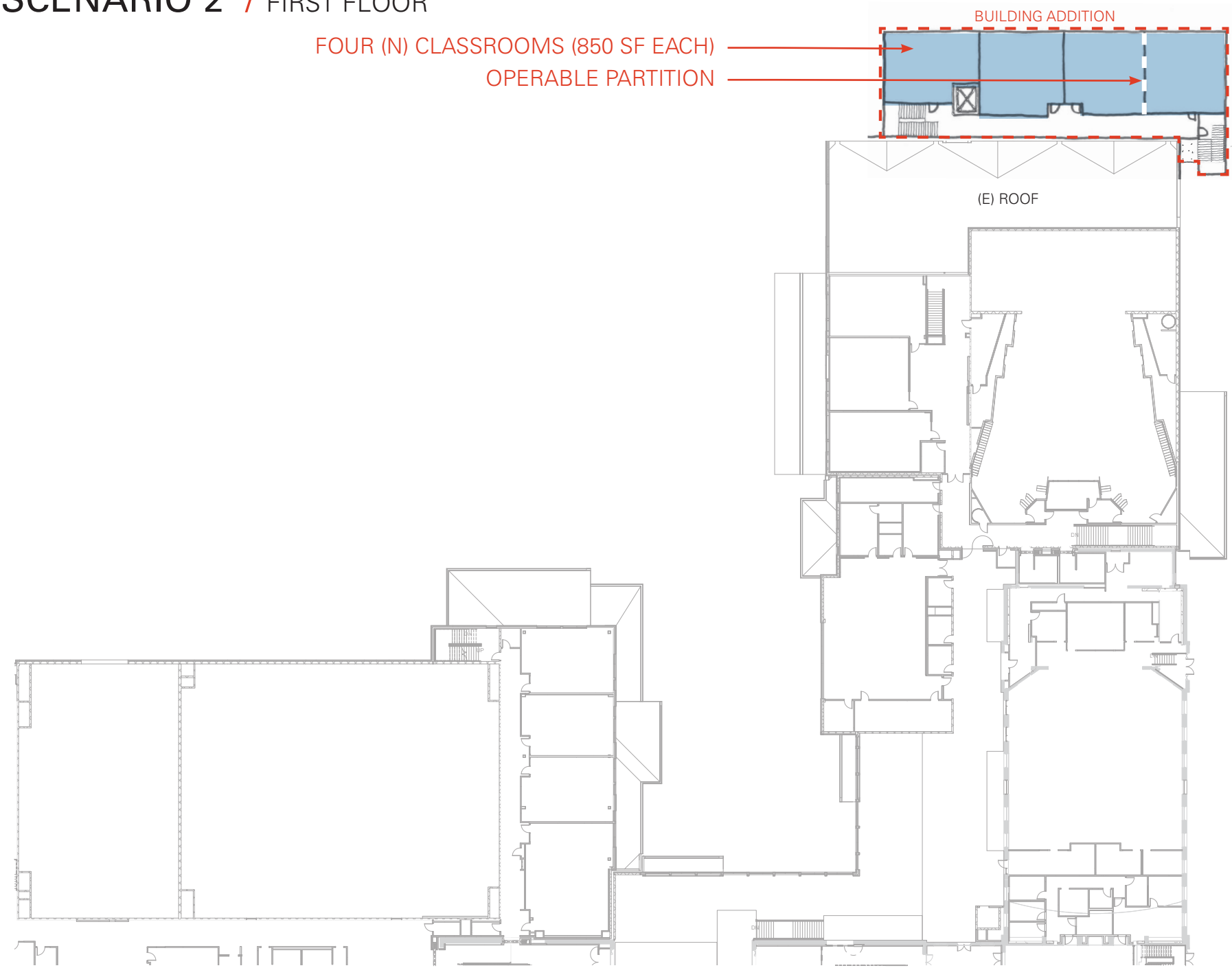
SCENARIO 2 / FIRST FLOOR



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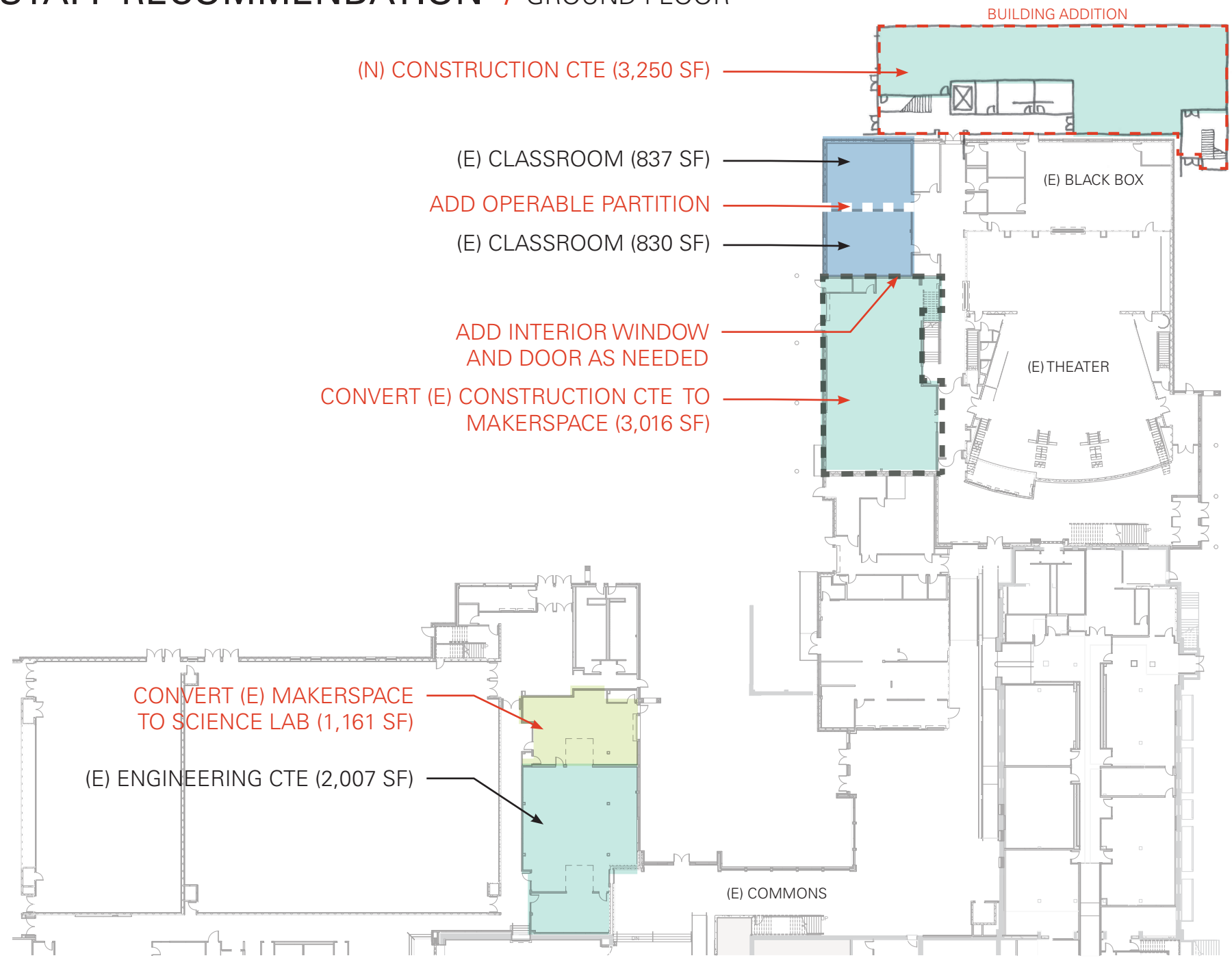
ANALYSIS / CAPACITY INCREASE & AREAS

	STUDENT CAPACITY INCREASE	2017 PPS ED SPEC	EXISTING SIZE	PROPOSED NEW	NET AREA ADDED
ORIGINAL 10,000 SF ADDITION					
(E) RHS Dedicated Maker's Lab	No change	1,200 SF	1,161 SF	No change	CLASSROOMS +0 SF
District HUB Maker's Lab	25	N/A	0 SF	4,105 SF	
(E) Construction CTE	No change	2,000 SF	2,044 SF	No change	SCIENCE +0 SF
(N) Construction CTE	25	2,000 SF	0 SF	3,460 SF	
Engineering CTE	No change	2,000 SF	2,007 SF	No change	CTE & MAKERSPACE +7,565 SF
TOTAL	**50**				
SCENARIO 1 - 10,000 SF ADDITION W/ SCIENCE LABS					
Science Labs (2)	60	1,500 SF		1,250 SF	CLASSROOMS +1,961 SF
Classrooms (2)	60	980 SF		800/1,161 SF	
Maker's Lab	No change	1,200 SF	1,161 SF	3,016 SF	SCIENCE +2,800 SF
Construction CTE	No change	2,000 SF	2,044 SF	3,250 SF	
Engineering CTE	No change	2,000 SF	2,007 SF	No change	CTE & MAKERSPACE +2,089 SF
TOTAL	**120**				
SCENARIO 2 - 10,000 SF ADDITION W/ CLASSROOMS					
Science Labs (1)	30	1,500 SF		1,161 SF	CLASSROOMS +3,400 SF
Classrooms (4)	120	980 SF		850 SF	
Maker's Lab	No change	1,200 SF	1,161 SF	3,016 SF	SCIENCE +1,161 SF
Construction CTE	No change	2,000 SF	2,044 SF	3,250 SF	
Engineering CTE	No change	2,000 SF	2,007 SF	No change	CTE & MAKERSPACE +2,089 SF
TOTAL	**150**				

STAFF RECOMMENDATION /

FLEXIBLE VARIATION WITH CONSTRUCTION CTE, FLEXIBLE LABS/ CLASSROOMS, AND MAKERSPACE RELOCATED

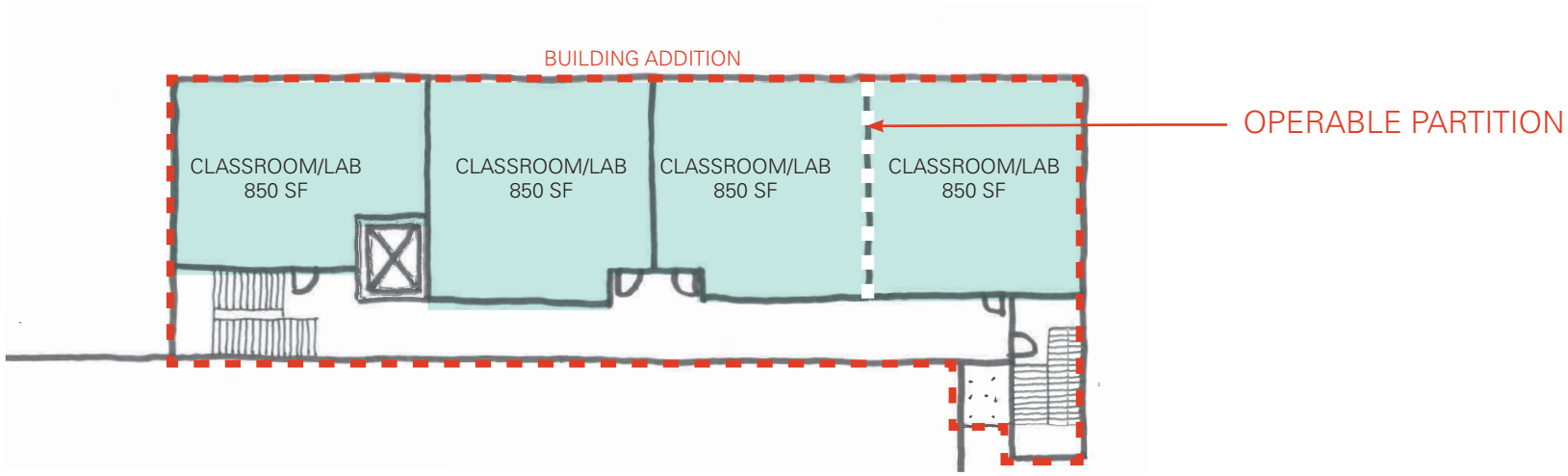
STAFF RECOMMENDATION / GROUND FLOOR



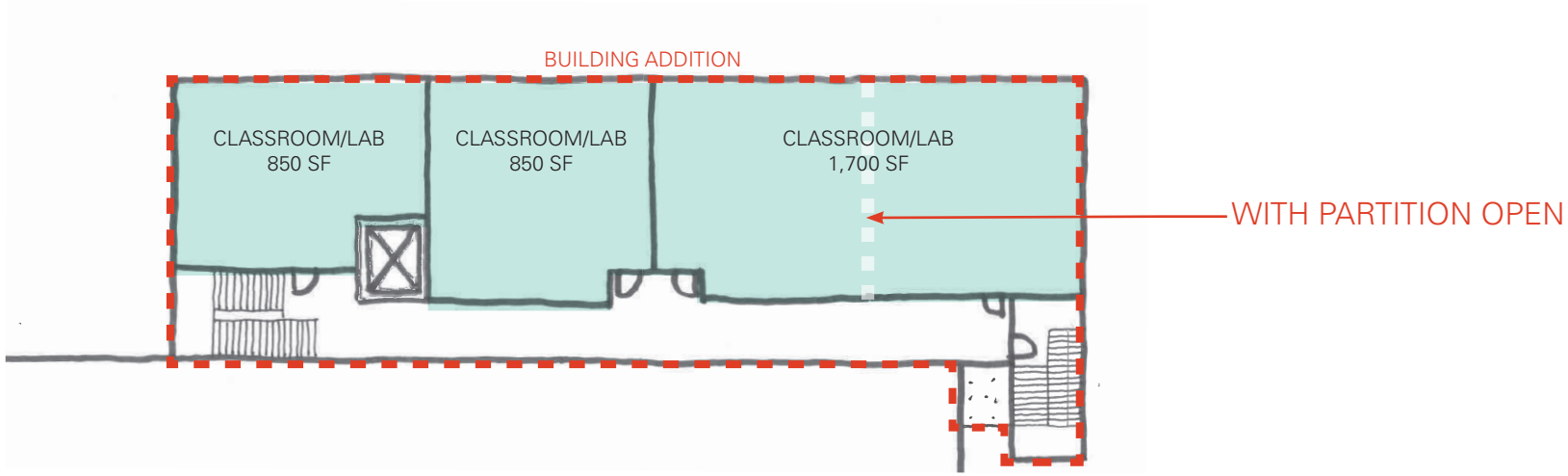
bassetti architects

PPS

CONFIGURATION A - FOUR 850 SF CLASSROOMS OR LABS



CONFIGURATION B - TWO 850 SF AND ONE 1,700 SF CLASSROOMS OR LABS



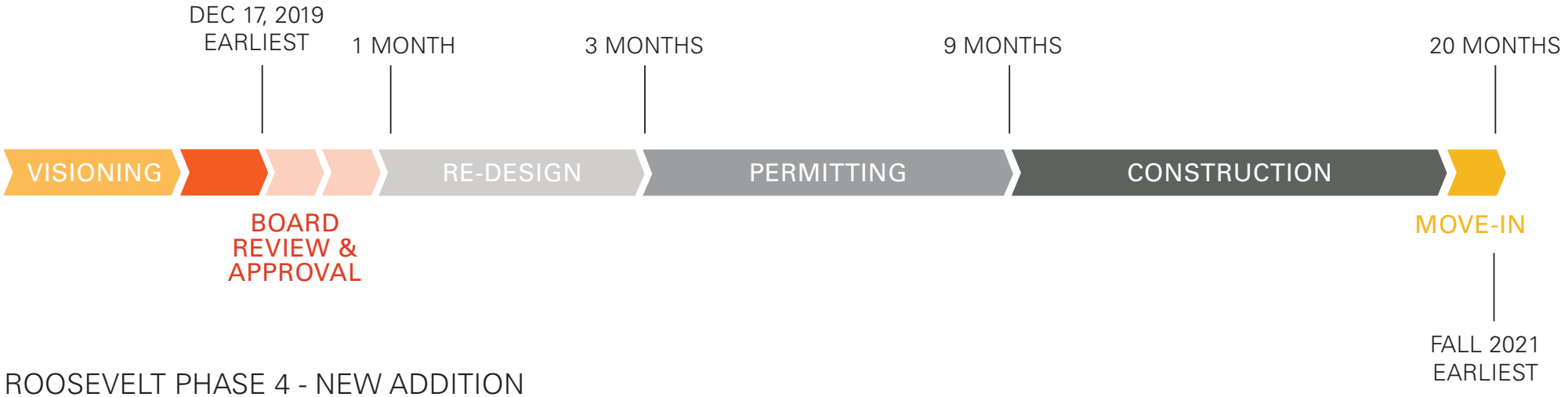
BENEFITS OF STAFF RECOMMENDATION

+ New, larger ground floor location for Makerspace in existing construction
+ Larger Construction CTE space with ground floor access
+ Allows capacity growth in Construction CTE
+ Accomodates senior inquiry need in more than one space

AREA COMPARISON

	ROOSEVELT HS	FRANKLIN HS	GRANT HS
	Staff Recommendation New SF	Existing	Existing
Construction CTE	3,250 SF	3,173 SF	2,519 SF
Engineering CTE	2,007 SF	0 SF	1,191 SF
Makerspace Lab	3,016 SF	1,101 SF	1,235 SF
Science Lab	1,161 SF	1,327 SF	1,205 SF
General Ed Classroom	850 SF	887 SF	785 SF

TIMELINE / ESTIMATED



ROOSEVELT PHASE 4 - NEW ADDITION

THANK YOU.