

Project Minutes

Project: New Stoneham High School Project No.: 20033
 Prepared by: Joel Seeley Meeting Date: 3/28/2022
 Re: School Building Committee Meeting Time: 7:00pm
 Location: Central Middle School Library and Remote Participation Meeting No: 43
 Distribution: Attendees (MF)

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	Marie Christie	Co-Chair, School Building Committee	Voting Member
✓	David Bois	Co-Chair, School Building Committee; Community Member with Architecture Experience	Voting Member
✓	Nicole Nial	School Committee Member	Voting Member
✓	Raymie Parker	Select Board Member	Voting Member
✓	Douglas Gove	Community Member with Engineering Experience	Voting Member
✓	Stephen O'Neill	Vice-Chair, Community Member with Engineering Experience	Voting Member
✓	Josephine Thomson	Community Member	Voting Member
✓	Jeanne Craigie	Town Moderator	Voting Member
✓	Lisa Gallagher	Community Member, School Secretary, Past member of Middle School Building Committee	Voting Member
✓	Sharon Iovanni	Community Member	Voting Member
✓	Cory Mashburn	Community Member, Finance and Advisory Board	Voting Member
	Paul Ryder	Community Member with Construction Experience	Voting Member
✓	David Pignone	Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility	Voting Member
✓	Kevin Yianacopolus	Local Official responsible for Building Maintenance	Voting Member
✓	Dennis Sheehan	Town Administrator / MCPPO Certified	Non-Voting Member
✓	John Macero	Superintendent of Schools, Secretary of School Building Committee	Non-Voting Member
✓	Bryan Lombardi	Stoneham High School Principal	Non-Voting Member
✓	Brian McNeil	Town Facilities Director	Non-Voting Member
Attended Remote	April Lanni	Town Procurement Officer / MCPPO Certified	Non-Voting Member
✓	David Ljungberg	Assistant Superintendent of Schools	
✓	Brooke Trivas	Perkins and Will	
✓	Patrick Cunningham	Perkins and Will	
Attended Remote	Stephen Messinger	Perkins and Will	
Attended Remote	Elizabeth Dame	Perkins and Will	
✓	Kristy Lyons	Consigli Construction	
✓	Todd McCabe	Consigli Construction	
✓	Tim Ericson	Consigli Construction	
✓	Robert Smith	SMMA	
✓	Joel Seeley	SMMA	

Item #	Action	Discussion
43.1	Record	Call to Order, 7:00 PM, meeting opened.
43.2	Record	This meeting will be a hybrid meeting held both via video conference and in person and a recording of such will be posted on the Town's website.
43.3	Record	A motion was made by R. Parker and seconded by D. Pignone to approve the 3/14/22 School Building Committee meeting minutes. No discussion, motion passed unanimous, one abstention.
43.4	Record	J. Seeley reviewed the Budget Status Report, dated 3/30/22, attached.
43.5	Record	J. Seeley reviewed Designer Amendment No. 20 – Additional Property Line Survey Services at Traffic Signal Work, attached. J. Seeley indicated that this Amendment will be voided should the Committee approve VE Item CL-77. <i>Post script: Committee approved VE Item CL-77, therefore Designer Amendment No. 20 is voided.</i>
43.6	Record	J. Seeley indicated the Building Code Variance Request was approved on 3/22/22.
43.7	Record	J. Seeley reviewed the 60% Construction Documents Schedule, attached.
43.8	J. Seeley	J. Seeley reviewed the 60% Construction Documents Meetings and Agenda Schedule, attached. Committee Discussion: 1. J. Macero indicated the 4/19/22 meeting is during April School Vacation and the 6/20/22 meeting is on Juneteenth. <i>J. Seeley to adjust the schedule and re-issue.</i>
43.9	B. Trivas	B. Trivas to provide a layout of delivery trucks and dumpsters at the loading dock for review. <i>(from prior meeting)</i>
43.10	D. Warner	D. Warner to provide a list of trees for review. <i>(from prior meeting)</i>
43.11	D. Warner	D. Warner to provide details of the bollards at the front drop-off area to confirm they will not impede emergency response vehicles, for review. <i>(from prior meeting)</i>
43.12	D. Warner	D. Warner to provide a layout of the Japanese Dogwoods for review. <i>(from prior meeting)</i>
43.13	T. McCabe	T. McCabe to present the overall construction schedule including procurement for review. <i>(from prior meeting)</i>
43.14	D. Sheehan	D. Sheehan will review any Federal programs for Covid funds that may be applied to the project. <i>(from prior meeting)</i>
43.15	B. Trivas	B. Trivas will review the acoustic performance of the overhead coiling glass garage doors at the Maker Space with the acoustical consultant and provide direction. <i>(from prior meeting)</i>

Item #	Action	Discussion
43.16	B. Trivas	B. Trivas to review if the batting cage can stay off the main court. <i>(from prior meeting)</i>
43.17	P. Cunningham	P. Cunningham to review the metal wall panel material at the building entry and confirm it is sufficiently durable for that location. <i>(from prior meeting)</i>
43.18	J. Seeley	J. Seeley to contact MSBA to confirm their availability for a 6/15/22 Ground Breaking ceremony. <i>(from prior meeting)</i>
43.19	K. Lyons	K. Lyons to assess the cut and fill requirements to determine if the stockpile area can be reduced. <i>(from prior meeting)</i>
43.20	K. Lyons	K. Lyons to determine if the temporary fence at the existing entry drive off Franklin Street can be positioned to allow vehicles to turn around if they mistakenly enter the drive between mid-July and mid-August. <i>(from prior meeting)</i>
43.21	D. Sheehan	D. Sheehan to schedule the meeting with the Boxwood Road residents to notify them that the temporary drive will be utilized by the 23 high school full-time staff during Summer 2022 and Summer 2023. <i>(from prior meeting)</i>
43.22	B. McNeil K. Lyons	B. McNeil issued a list of all memorials and memorabilia to be removed and protected that are in the area of the construction and met on site with Consigli on 3/28/22 to review. K. Lyons to incorporate into the Early Site Enabling Package. <i>(from prior meeting)</i>
43.23	B. Trivas	B. Trivas to provide direction on why the Stormceptor is a proprietary item, how many there are, what are the maintenance requirements. <i>(from prior meeting)</i>
43.24	Record	J. Seeley reviewed the Final Design Development Construction Cost Estimate Comparison, attached. The two estimators, Consigli and PM&C, submitted their draft estimates on 3/18/22, were reconciled in an all-day meeting on 3/22/22, with the final Consigli estimate reflecting a construction cost of \$165.4M and final PM&C at \$163.8M, representing on average of \$12.0M and \$10.4M respectively over the \$153.4M budget. Both estimators included 6% annual escalation and a 5% estimating contingency in their estimates.
43.25	K. Lyons	<p>K. Lyons reviewed the Value Management Log, dated 3/28/22 and attached, reflecting the recommendations made at the 3/24/22 and 3/28/22 Ad Hoc VE Subcommittee meetings defining the VE items listed in the "Ad Hoc Recommend" column totaling \$12,077,151, bringing the construction cost under budget by \$64,206.</p> <p>D. Bois indicated the Ad Hoc VE Subcommittee has meet six times over the past few months in order to provide a recommendation to the Committee to bring the construction cost within budget. The Subcommittee has prioritized the following in their review of the VE Items: Educational Program, Pre-K Program, Net Zero Energy Performance and Quality and Durability. The Subcommittee has not developed a</p>

Item #	Action	Discussion
		<p>recommendation on which items are to be additive bid alternates. The Subcommittee believes the project will be a great high school and is hopeful that with these recommendations and potentially further savings during the next phases of the design, the project will remain on budget.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none">1. S. Iovanni observed that VE Item EN-34 indicates major redesign in its description and asked if there is a design cost for this VE Item? <i>D. Bois indicated no, the Designer Agreement requires the Designer to revise the design to keep the cost within the construction budget.</i>2. R. Parker indicated she would like to see what the masonry exterior design would look like. <i>D. Bois indicated the goal is to continue to move forward within the project timeline. The masonry exterior will be of durable materials and Perkins&Will will need time to develop the exteriors.</i>3. R. Parker indicated the project should ask for additional funding from state and federal agencies, as the project was on budget and the cost escalation was not caused by the project but by Covid.4. L. Gallagher asked if there is time to increase the project funding and remain on schedule? <i>D. Sheehan recommended the Committee review the recommendations on the Value Management Log, obtaining additional funding is a separate discussion.</i>5. R. Parker asked if the Committee should delay the Design Development submission to MSBA? <i>D. Bois indicated the Subcommittee discussed delaying the project to potentially obtain additional project funding, and felt that overall project escalation would catch up or exceed any additional funding obtained.</i>6. R. Parker asked if the project should seek additional funding from the town? <i>D. Bois indicated the construction market is driving cost escalation as well, labs and housing in particular, not just Covid and the big concern is if we wait six months to obtain the additional \$12 million in funding, the project could still be in the same place with VE decisions after that, to bring the project in budget due to escalation.</i>7. R. Parker asked if VE Item IN-130a will affect the safety of the auditorium? <i>P. Cunningham indicated no, the same level of fire proofing will be provided.</i>

Item #	Action	Discussion
		<p>8. R. Parker asked will there be a risk of freezing in the upper stairwell floors in VE Item D-60? <i>D. Bois indicated no, this VE item was suggested by Perkins&Will's engineers and the Subcommittee asked that a temperature sensor be added at the upper floor.</i></p> <p>9. D. Pignone indicated VE Items CL-15 and CL-27a are the first items that affect the program. The north soccer field was also the first field to be completed, now it will be three growing seasons before it can be used, Consigli will need to update their Construction Logistics Plans. D. Pignone asked that CL-15 and CL-27a be the first VE Item to be added back in if funds allow. <i>K. Lyons to update the Construction Logistics Plans if VE items CL-15 and CL-27a are approved.</i></p> <p>10. R. Parker indicated keeping the Franklin Street/School Entry Drive traffic signal as-is and having the Town fund the Stevens Street/Franklin Street traffic signal may need a broader Town discussion.</p> <p>11. C. Mashburn indicated concern about changing the north soccer field, eliminating the sports lighting, eliminating the fixed seating at the outdoor café and deleting the visitor bleachers at Spartan Stadium. <i>D. Pignone indicated the natural grass field will not require sports lighting and having one set of bleachers can be managed. J. Macero indicated the outdoor café furniture can be added in the future as loose outdoor seating furniture.</i></p> <p>12. J. Thomson asked if other funding sources are being looked into for the Stevens Street traffic signal work? <i>D. Sheehan indicated he is looking into other sources of funding, potentially the infrastructure bill, however other Town traffic projects may need to be re-prioritized.</i></p> <p>13. S. Iovanni asked if the traffic signal work is reimbursable by MSBA? <i>J. Macero indicated no, the traffic signal work is not reimbursable.</i></p> <p>14. J. Craigie asked if other funding was obtained for the Stevens Street traffic signal work, would MSBA reduce their grant? <i>J. Macero indicated no, as the traffic signal work is not reimbursable.</i></p> <p>15. J. Thomson asked where would the District Offices move to if removed from the project? <i>J. Macero indicated there are a few options being reviewed, one of them is to modify the Middle School library space to accept the STEM Labs and</i></p>

Item #	Action	Discussion
		<p><i>have the District Offices move into the former STEM Labs space. The School Committee will form a committee to study, outside the work of the SSBC.</i></p> <p>16. C. Mashburn asked will the program be affected if the auditorium acoustic shells are eliminated? <i>J. Macero indicated no, the shells are very nice, but very heavy and time consuming to put up and down, at his former high school, the shells have never been used after seven years.</i></p> <p>17. J. Craigie indicated the public needs to be informed of the VE Items being recommended.</p> <p>18. J. Craigie indicated a strategy needs to be developed if the Committee will be going back to the Town for additional funding.</p> <p>19. J. Craigie indicated the VE Items related to the District Offices and Pre-K program are School Committee decisions.</p> <p>20. D. Mauer of the School Committee indicated that the majority of the recommended VE Items while not being desirable, are reasonable, and asked will the energy performance related recommended VE Items cause significant long term operational cost impacts? <i>P. Cunningham indicated no and reviewed the energy performance impacts of the VE Items in the attached Powerpoint.</i></p> <p>21. R. Parker asked how does the Committee inform the public? <i>J. Seeley indicated the PR Subcommittee can develop an approach to informing the public.</i></p> <p>22. J. Craigie asked when will the Committee be able to see what the masonry exteriors would look like? <i>B. Trivas indicated the design team will be looking into, most likely not a red brick though.</i></p> <p>23. D. Gove asked will the recommended VE Items impact the ability to issue the Early Site Enabling Package on 5/9/22? <i>T. McCabe indicated no.</i></p> <p>A Motion was made by S. Iovanni and seconded by L. Gallagher to approve the VE items listed in the "Ad Hoc Recommend" column totaling \$12,077,151, bringing the construction cost under budget by \$64,206. No discussion, motion passed 11 in favor and 2 against.</p>
43.26	Record	<p>A motion was made by S. Iovanni and seconded by J. Craigie to approve the Design Development Submission, inclusive of the accepted VE Items and authorize submission to the MSBA. No discussion, motion passed unanimous.</p>

Item #	Action	Discussion
43.27	J. Seeley	<p>Subcommittee Updates</p> <ol style="list-style-type: none"> 1. J. Seeley reviewed the 3/17/22 Ad Hoc VE Subcommittee Meeting Minutes, attached. 2. J. Seeley reviewed the 3/11/22 Construction Subcommittee Meeting Minutes, attached. 3. J. Seeley reviewed the 3/7/22 Green Building Initiatives Meeting Minutes, attached. 4. J. Seeley indicated the Green Building Initiatives Working Group completed the interviews with Nexamp, Inc, Ameresco, Inc, and Solect Energy Development on 3/18/22, reviewed their best and final price proposals and have recommended the Town enter into a contract with Nexamp, Inc. to provide the Photovoltaic System. 5. J. Macero indicated the Historical Commission would like to attend the next meeting of the Interiors Subcommittee to review the potential of installing the salvaged mural from the Bank of America in the high school. <i>J. Seeley will coordinate.</i>
43.28	Record	Committee Questions - none
43.29	Record	<p>Old or New Business</p> <ol style="list-style-type: none"> 1. J. Seeley reviewed the 3/9/22 Franklin Place Neighbors Meeting Minutes, attached.
43.30	Record	Public Comment - none
43.31	Record	Next SSBC Meeting: April 4, 2022 at 7:00 pm.
43.32	Record	A Motion was made by S. Iovanni and seconded by C. Mashburn to adjourn the meeting. No discussion, motion passed unanimous.

Attachments: Agenda, Budget Status Report, Designer Amendments No. 20, 60% Construction Documents Schedule, 60% Construction Documents Meetings and Agenda Schedule, Final Design Development Construction Cost Estimate Comparison, Value Management Log, 3/17/22 Ad Hoc VE Subcommittee Meeting Minutes, 3/11/22 Construction Subcommittee Meeting Minutes, 3/7/22 Green Building Initiatives Meeting Minutes, 3/9/22 Franklin Place Neighbors Meeting Minutes

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

Agenda

Project:	New Stoneham High School	Project No.:	20033
Re:	School Building Committee Meeting	Meeting Date:	3/28/2022
Prepared by:	Joel Seeley	Meeting Time:	7:00 PM
Location:	Central Middle School Library & Remote Participation	Meeting No.	43
Distribution:	Attendees (MF)		

1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Schedule and Budget Update
5. Permitting Update
6. Review Design Development Cost Estimate
7. Review Value Engineering Options
8. Subcommittee Updates
9. New or Old Business
10. Committee Questions
11. Public Comments
12. Next Meeting: April 4, 2022
13. Adjourn

Join Go-To-Meeting: <https://meet.goto.com/967348917>
Dial-in: [+1 \(646\) 749-3122](tel:+16467493122) **Access Code:** 967-348-917

Symmes Maini & McKee Associates, Inc. (SMMA) Stoneham Public School District Stoneham High School		Original PFA Budget 08/18/2021	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
BUDGET / Summary as of: 3/30/2022									
Propay code #	Name			A	B	C	D	E	
	Feasibility Study Agreement								
0001-0000	OPM Feasibility Study	187,500.00	(82,500.00)	105,000.00	105,000.00	105,000.00	-	-	-
0002-0000	A&E Feasibility Study	465,000.00	(45,000.00)	420,000.00	420,000.00	420,000.00	-	-	-
0003-0000	Environmental and Site	60,000.00	114,193.14	174,193.14	174,193.14	149,219.27	24,973.87	-	-
0004-0000	Other	37,500.00	13,306.86	50,806.86	47,051.36	38,795.23	8,256.13	-	3,755.50
	Feasibility Study Agreement Subtotal	\$ 750,000.00	\$ -	\$ 750,000.00	\$ 746,244.50	\$ 713,014.50	\$ 33,230.00	\$ -	\$ 3,755.50
	Administration								
0101-0000	Legal Fees	120,000.00		120,000.00	-	-	-	-	120,000.00
	Owner's Project Manager								
0102-0400	> Design Development	380,000.00		380,000.00	380,000.00	270,000.00	110,000.00	-	-
0102-0500	> Construction Contract Documents	640,000.00		640,000.00	640,000.00	-	640,000.00	-	-
0102-0600	> Bidding	180,000.00		180,000.00	180,000.00	-	180,000.00	-	-
0102-0700	> Construction Contract Administration	3,185,100.00		3,185,100.00	3,185,100.00	-	3,185,100.00	-	-
0102-0800	> Closeout	220,000.00		220,000.00	220,000.00	-	220,000.00	-	-
0102-0900	> Extra Services	140,000.00		140,000.00	-	-	-	-	140,000.00
0102-1000	> Reimbursable & Other Services	80,000.00		80,000.00	-	-	-	-	80,000.00
0102-1100	> Cost Estimates	-		-	-	-	-	-	-
0103-0000	Advertising	20,000.00		20,000.00	260.00	260.00	-	-	19,740.00
0104-0000	Permitting	120,000.00		120,000.00	-	-	-	-	120,000.00
0105-0000	Owner's Insurance	200,000.00		200,000.00	-	-	-	-	200,000.00
0199-0000	Other Administrative Costs	260,000.00		260,000.00	-	-	-	-	260,000.00
	Administration Subtotal	\$ 5,545,100.00	\$ -	\$ 5,545,100.00	\$ 4,605,360.00	\$ 270,260.00	\$ 4,335,100.00	\$ -	\$ 939,740.00
	Architecture and Engineering								
	Basic Services								
0201-0400	> Design Development	3,233,800.00		3,233,800.00	3,233,800.00	2,748,730.00	485,070.00	-	-
0201-0500	> Construction Contract Documents	4,921,000.00		4,921,000.00	4,921,000.00	-	4,921,000.00	-	-
0201-0600	> Bidding	1,124,800.00		1,124,800.00	1,124,800.00	-	1,124,800.00	-	-
0201-0700	> Construction Contract Administration	3,936,800.00		3,936,800.00	3,936,800.00	-	3,936,800.00	-	-
0201-0800	> Closeout	423,600.00		423,600.00	423,600.00	-	423,600.00	-	-
0201-9900	> Other Basic Services	-		-	-	-	-	-	-
	BASIC SERVICES SUBTOTAL	\$ 13,640,000.00	\$ -	\$ 13,640,000.00	\$ 13,640,000.00	\$ 2,748,730.00	\$ 10,891,270.00	\$ -	\$ -
	Reimbursable Services								
0203-0100	> Construction Testing	60,000.00	(8,500.00)	51,500.00	-	-	-	-	51,500.00
0203-0200	> Printing (over minimum)	40,000.00		40,000.00	-	-	-	-	40,000.00
0203-9900	> Other Reimbursable Costs	320,000.00	(7,700.00)	312,300.00	8,800.00	-	8,800.00	-	303,500.00
0204-0200	> Hazardous Materials	269,830.00		269,830.00	34,650.00	-	34,650.00	-	235,180.00
0204-0300	> Geotech & Geo-Env.	657,170.00		657,170.00	277,409.00	35,750.00	241,659.00	-	379,761.00
0204-0400	> Site Survey	44,000.00		44,000.00	44,000.00	-	44,000.00	-	-
0204-0500	> Wetlands	20,000.00		20,000.00	-	-	-	-	20,000.00
0204-1200	> Traffic Studies	209,000.00	7,700.00	216,700.00	216,700.00	23,304.01	193,395.99	-	-
	Architectural and Engineering Subtotal	\$ 15,260,000.00	\$ (8,500.00)	\$ 15,251,500.00	\$ 14,221,559.00	\$ 2,807,784.01	\$ 11,413,774.99	\$ -	\$ 1,029,941.00

Symmes Maini & McKee Associates, Inc. (SMMA) Stoneham Public School District Stoneham High School		Original PFA Budget 08/18/2021	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
BUDGET / Summary as of: 3/30/2022									
0501-0000	<u>Pre-Construction Services</u>	\$ 258,528.00	\$ 8,500.00	267,028.00	267,028.00	73,864.00	193,164.00	-	\$ -
0502-0001	Construction Budget	\$ 153,418,660.00		\$ 153,418,660.00	\$ -	\$ -	\$ -	\$ -	\$ 153,418,660.00
CSI Code	CSI Description								
Construction Budget Subtotal		\$ 153,418,660.00	\$ 8,500.00	\$ 153,418,660.00	\$ -	\$ -	\$ -	\$ -	\$ 153,418,660.00
<u>Alternates</u>									
0506-0000	<u>Alternates</u>	-		-	-	-	-	-	-
Alternates Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0600-0000	<u>Miscellaneous Project Costs</u>								
0601-0000	<u>Utility Company Fees</u>	200,000.00		200,000.00	2,000.00	2,000.00	-	-	198,000.00
0602-0000	<u>Testing Services</u>	560,000.00		560,000.00	-	-	-	-	560,000.00
0603-0000	<u>Swing Space / Modulars</u>	-		-	-	-	-	-	-
0699-0000	<u>Other Project Costs (Mailing & Moving)</u>	360,000.00		360,000.00	-	-	-	-	360,000.00
0600-0000	Miscellaneous Project Costs Subtotal	\$ 1,120,000.00	\$ -	\$ 1,120,000.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -	\$ 1,118,000.00
0700-0000	<u>Furnishings and Equipment</u>								
0701-0000	<u>Furnishings</u>	1,251,000.00		1,251,000.00	-	-	-	-	1,251,000.00
0702-0000	<u>Equipment</u>								
0703-0000	<u>Computer Equipment</u>	1,251,000.00		1,251,000.00	-	-	-	-	1,251,000.00
Furnishings and Equipment Subtotal		\$ 2,502,000.00	\$ -	\$ 2,502,000.00	\$ -	\$ -	\$ -	\$ -	\$ 2,502,000.00
0507-0000	<u>Owner's Construction Contingency</u>	7,670,933.00		7,670,933.00	-	-	-	-	7,670,933.00
0801-0000	<u>Owners' (soft cost) Contingency</u>	3,068,373.00		3,068,373.00	-	-	-	-	3,068,373.00
Contingency Subtotal		\$ 10,739,306.00	\$ -	\$ 10,739,306.00	\$ -	\$ -	\$ -	\$ -	\$ 10,739,306.00
Total Project Budget		\$ 189,593,594.00	\$ -	\$ 189,593,594.00	\$ 19,842,191.50	\$ 3,793,058.51	\$ 15,782,104.99	\$ -	\$ 169,751,402.50

Memorandum

To: Stoneham School Building Committee
From: Joel Seeley
Project: New Stoneham High School
Re: Designer Amendment No. 20:
Additional Property Line Survey Services at Traffic Signal Work
Distribution: Stoneham School Building Committee (MF)

Date: 3/28/2022
Project No.: 20033

DESIGNER AMENDMENT NO. 20: ADDITIONAL PROPERTY LINE SURVEY SERVICES AT TRAFFIC SIGNAL WORK

FEE: \$7,150.00

REASON: Provide additional survey services in the area of the traffic signal work to confirm property line locations.

BUDGET AVAILABILITY: This Amendment would be funded out of MSBA ProPay Code 0203-9900, Other Reimbursable Costs Budget, which has a balance of \$303,500.

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES

AMENDMENT NO. 20

WHEREAS, the Town of Stoneham (“Owner”) and Perkins & Will, (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the Stoneham High School Project (Project Number 201802840505) at the Stoneham High School on July 10, 2020 “Contract”; and

WHEREAS, effective as of March 28, 2022, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

Fee for Basic Services:

	Original Contract	Prior Amendments	This Amendment	After this Amendment
Feasibility Study Phase	\$ 175,000.00	\$ 71,733.64	\$ 0.00	\$ 246,733.64
Schematic Design Phase	\$ 245,000.00	\$ 106,259.50	\$ 0.00	\$ 351,259.50
Design Development Phase	\$ 0.00	\$ 3,815,359.00	\$ 7,150.00	\$ 3,822,509.00
Construction Document Phase	\$ 0.00	\$ 4,921,000.00	\$ 0.00	\$ 4,921,000.00
Bidding Phase	\$ 0.00	\$ 1,124,800.00	\$ 0.00	\$ 1,124,800.00
Construction Phase	\$ 0.00	\$ 3,936,800.00	\$ 0.00	\$ 3,936,800.00
Completion Phase	\$ 0.00	\$ 423,600.00	\$ 0.00	\$ 423,600.00
Total Fee	\$420,000.00	\$14,399,552.14	\$ 7,150.00	\$14,826,702.14

This Amendment is a result of: Providing Additional Survey Services to Confirm Property Line Locations in the Area of Traffic Signal Work to be funded out of MSBA ProPay 0203-9900.

2. The Construction Budget shall be as follows:

Original Budget:	\$ <u>153,418,660.00</u>
Amended Budget	\$ <u>153,418,660.00</u>

3. The Project Schedule shall be as follows:

Original Schedule:	<u>June 2025</u>
Amended Schedule	<u>June 2025</u>

4. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Dennis J. Sheehan
(print name)

Town Administrator, Town of Stoneham
(print title)

By _____
(signature)

Date _____

DESIGNER

Robert Brown, AIA, IIDA, LEED AP
(print name)

Managing Director, Principal, Perkins & Will
(print title)

By _____
(signature)

Date _____

Perkins&Will

3.27.2022

Mr. Dennis J. Sheehan, Town Administrator
Stoneham Town Hall
35 Central Street, Second Floor
Stoneham, MA 02180

Re: Stoneham High School / Additional Services #20 Attachment F

Dear Mr. Sheehan,

As requested, and required, attached, and noted herein, are the additional services for the additional survey of work required and requested by Stoneham. We have attached the proposal, for your reference, from Nitsch Engineering for additional survey work

Project Overview

The additional service request is to perform research for record data on the 150 Franklin Street property and abutting properties. Perform fieldwork to look for record monumentation and location. Perform office calculations to determine the frontage property lines of 150 Franklin Street. The scope assumes record monumentation is recoverable and Nitsch Engineering will encounter reasonable congruity between field and record data.

Schedule

The work will commence when the scope is approved by the Stoneham Building Committee.

Compensation

Based on the scope and schedule outlined herein and attached we propose a lump sum fee with a 10% mark up as allowed per contract. The following outlines the total compensation per additional service request which includes the 10% mark up: Any deviations to the attached will be at an additional charge to the below fee.

Nitsch Engineering Survey	\$ 6,500
Perkins&Will 10% Mark up	<u>\$ 650</u>
Total Additional Services #18	\$ 7,150

Thank you,



Brooke Trivas

Principal, Practice Leader for Perkins&Will

cc: Perkins&Will Team, Joel Seely – SMMA, file



VERIFICATION/AUTHORIZATION OF ADDITIONAL SERVICES
 (CONTRACT AMENDMENT #4)

Project Name: Stoneham High School

Nitsch Project Number: 14166.1 Date: 3/24/2022

Client: Perkins & Will

Client Mailing Address: 225 Franklin St., Suite 1100
Boston, Ma 02110

Nitsch Engineering PM: Denis Seguin

Description of change and services to be performed: Perform research for record data on the 150 Franklin Street property and abutting properties. Perform fieldwork to look for record monumentation and location. Perform office calculations to determine the frontage property lines of 150 Franklin Street. This cost assumes record monumentation is recoverable and Nitsch Engineering will encounter reasonable congruity between field and record data.

Instruction Received From: Joel G. Seeley
How: email
Date: March 24, 2022

Project Schedule: Increase Decrease No Change

Fee Change:	Present Fee	Fee Change	Revised Fee
Survey:	<u>\$94,600</u>	<u>\$6,500</u>	<u>\$101,100</u>
Civil:	_____	_____	_____
Transportation:	_____	_____	
Total:	<u>\$101,100</u>		

Client Authorization

By: _____

Title: _____

Date: _____

If we do not receive a response, Nitsch Engineering will assume you have approved this Additional Service.

Nitsch Distribution:	<u>DRS</u>	<u>DRS</u>	<u>14166.1</u>
	Project Manager	PIC	Billing File

Note: Nitsch Engineering Terms and Conditions of original contract, dated July 23, 2020, apply with this contract revision.



2 Center Plaza, Suite 430
Boston, MA 02108-1928
T: 617-338-0063
F: 617-338-6472
www.nitscheng.com

Attach scopes and all assumptions, if applicable.

Document Location: Q:\14166.1 Stoneham HS Surv\Contract

**SCHOOL BUILDING COMMITTEE
STONEHAM HIGH SCHOOL**

All meetings held at the
Central Middle School Media Center and Remote Participation at 7:00 PM
unless otherwise noted

MEETINGS SCHEDULE AND AGENDAS

March 17, 2022

DATE	AGENDA
60% Construction Documents Phase	
April 19, 2022	SCHOOL BUILDING COMMITTEE MEETING (TUESDAY) Review Overall Construction Document Phase Schedule Review 60% Construction Document Schedule
April 27, 2022	NEIGHBORHOOD MEETING - 6:30PM - REMOTE
April 28, 2022	ZBA PRE-SUBMISSION MEETING - 7:00PM - IN PERSON
May 3, 2022	SCHOOL BUILDING COMMITTEE MEETING (TUESDAY) Review Design Refinements Review MSBA Design Development Submission Comments Review Construction Logistics Plan Site Permitting Update Approve Early Site Prequalified Trade Contractors
May 16, 2022	SCHOOL BUILDING COMMITTEE MEETING Review Design Refinements Review LEED Scorecard Site Permitting Update
June 6, 2022	SCHOOL BUILDING COMMITTEE MEETING Review Design Refinements Review Construction Logistics Plan Site Permitting Update Award Early Site Package
June 13, 2022	SCHOOL BUILDING COMMITTEE MEETING Review Reconciled 60% Construction Documents Cost Estimate Decide Value Engineering Items
June 20, 2022	SCHOOL BUILDING COMMITTEE MEETING Decide Value Engineering Items Vote to Submit 60% Construction Documents Package to MSBA
June 24, 2022	SUBMIT 60% CONSTRUCTION DOCUMENTS PACKAGE TO MSBA
	ADDITIONAL MEETINGS TO BE SCHEDULED

September 8, 2020
Updated March 17, 2022

Stoneham High School
Project Schedule

PROJECT MANAGEMENT



ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025																			
					4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2																	
					N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
212	CONSTRUCTION DOCUMENTS	176 days	3/18/2022	11/18/2022																																
213	Early Site Enabling, and Preparation Package No. 1	37 days	3/18/2022	5/9/2022																																
214	Incorporate MSBA DD Comments	11 days	4/29/2022	5/13/2022																																
215	Issue Complete 60% Construction Documents Pricing Set	0 days	5/11/2022	5/11/2022	5/11/2022 ◆ Issue Complete 60% Construction Documents Pricing Set																															
216	OPM and Cx Review	10 days	5/11/2022	5/24/2022																																
217	Structural Peer Review of Early Foundation & Structural Package	10 days	5/11/2022	5/24/2022																																
218	PM&C and Consigli Estimating	15 days	5/11/2022	5/31/2022																																
219	Estimates Due from PM&C and Consigli	0 days	5/31/2022	5/31/2022	5/31/2022 ◆ Estimates Due from PM&C and Consigli																															
220	Estimate Reconciliation Meeting	0 days	6/2/2022	6/2/2022	6/2/2022 ◆ Estimate Reconciliation Meeting																															
221	Final Reconciled Estimates Due	0 days	6/3/2022	6/3/2022	6/3/2022 ◆ Final Reconciled Estimates Due																															
222	Present CM Cost Estimate and Value Engineering List to SSBC	0 days	6/13/2022	6/13/2022	6/13/2022 ◆ Present CM Cost Estimate and Value Engineering List to SSBC																															
223	Present Value Engineering to SSBC	0 days	6/20/2022	6/20/2022	6/20/2022 ◆ Present Value Engineering to SSBC																															
224	SSBC Vote to Approve 60% Construction Documents Submission	0 days	6/20/2022	6/20/2022	6/20/2022 ◆ SSBC Vote to Approve 60% Construction Documents Submission																															
225	Early Foundation and Structural Package No. 2	56 days	4/8/2022	6/24/2022																																
226	60% Construction Documents Submission to MSBA	0 days	6/24/2022	6/24/2022	6/24/2022 ◆ 60% Construction Documents Submission to MSBA																															

Final DD Construction Cost Comparison

3/23/2022

	Consigli SD 6/23/21	Consigli Final DD 3/23/22	Delta from SD	% Delta	PM&C Final DD 3/23/22	Delta from SD	% Delta	Comments
Building Costs								
Foundations	\$6,330,206	\$5,536,944	-\$793,262	-12.5%	\$4,920,335	-\$1,409,871	-22.3%	
Superstructure	\$10,835,255	\$10,662,467	-\$172,788	-1.6%	\$10,664,292	-\$170,963	-1.6%	
Exterior Closure	\$10,404,191	\$12,833,769	\$2,429,578	23.4%	\$13,019,814	\$2,615,623	25.1%	
Roofing	\$3,104,043	\$3,433,814	\$329,771	10.6%	\$3,454,868	\$350,825	11.3%	
Interior Construction	\$8,784,118	\$10,815,749	\$2,031,631	23.1%	\$11,048,211	\$2,264,093	25.8%	
Staircases	\$619,052	\$587,973	-\$31,079	-5.0%	\$615,212	-\$3,840	-0.6%	
Interior Finishes	\$6,251,747	\$7,725,385	\$1,473,638	23.6%	\$8,085,375	\$1,833,628	29.3%	
Conveying Systems	\$461,971	\$629,191	\$167,220	36.2%	\$632,300	\$170,329	36.9%	
Plumbing	\$3,481,213	\$4,538,897	\$1,057,684	30.4%	\$4,482,095	\$1,000,882	28.8%	
HVAC	\$13,104,795	\$15,234,625	\$2,129,830	16.3%	\$15,373,132	\$2,268,337	17.3%	
Fire Protection	\$1,279,328	\$1,373,824	\$94,496	7.4%	\$1,345,320	\$65,992	5.2%	
Electrical	\$9,384,275	\$11,500,599	\$2,116,324	22.6%	\$11,390,322	\$2,006,047	21.4%	
Equipment	\$3,360,300	\$3,199,522	-\$160,778	-4.8%	\$3,460,011	\$99,711	3.0%	
Furnishings	\$2,148,853	\$3,140,843	\$991,990	46.2%	\$3,192,379	\$1,043,526	48.6%	
Building Demolition	\$1,167,000	\$1,490,749	\$323,749	27.7%	\$1,490,749	\$323,749	27.7%	
Hazardous Materials	\$3,000,000	\$3,200,000	\$200,000	6.7%	\$3,200,000	\$200,000	6.7%	
Subtotal	\$83,716,347	\$95,904,351	\$12,188,004	14.6%	\$96,374,415	\$12,658,068	15.1%	
Sitework								
Site Preparation	\$7,295,501	\$7,886,380	\$590,879	8.1%	\$6,779,982	-\$515,519	-7.1%	
Site Improvements	\$12,718,118	\$14,023,954	\$1,305,836	10.3%	\$14,370,863	\$1,652,745	13.0%	
Site Utilities	\$6,571,169	\$7,014,911	\$443,742	6.8%	\$7,005,963	\$434,794	6.6%	
Site Electrical	\$3,591,294	\$4,244,233	\$652,939	18.2%	\$3,668,425	\$77,131	2.1%	
Concession/Locker Room	\$2,228,504	\$2,831,304	\$602,800	27.0%	\$2,748,226	\$519,722	23.3%	
Subtotal	\$32,404,586	\$36,000,782	\$3,596,196	11.1%	\$34,573,459	\$2,168,873	6.7%	
Mark-ups								
Escalation	\$4,623,070	\$5,728,733	\$1,105,663	23.9%	\$5,315,542	\$692,472	15.0%	
Design Contingency	\$11,557,675	\$6,570,753	-\$4,986,922	-43.1%	\$6,547,394	-\$5,010,281	-43.4%	
General Conditions	\$5,490,124	\$5,490,124	\$0	0.0%	\$5,490,124	\$0	0.0%	
General Requirements	\$5,929,087	\$5,423,033	-\$506,054	-8.5%	\$5,266,604	-\$662,483	-11.2%	Consigli includes trade support
Bonds	\$791,435	\$852,701	\$61,266	7.7%	\$850,018	\$58,583	7.4%	
SDI	\$983,194	\$1,085,557	\$102,363	10.4%	\$1,079,278	\$96,084	9.8%	
Insurance	\$1,628,398	\$1,758,234	\$129,836	8.0%	\$1,740,388	\$111,990	6.9%	
Builders Risk	\$232,624	\$251,172	\$18,548	8.0%	\$248,401	\$15,777	6.8%	
Permit	\$0	\$0	\$0	0.0%	\$0	\$0	0.0%	
CM Fee	\$2,730,000	\$2,730,000	\$0	0.0%	\$2,730,000	\$0	0.0%	
CM Contingency	\$3,332,122	\$3,636,165	\$304,043	9.1%	\$3,570,270	\$238,148	7.1%	
Subtotal	\$37,297,729	\$33,526,472	-\$3,771,257	-10.1%	\$32,838,019	-\$4,459,710	-12.0%	
TOTAL	\$153,418,662	\$165,431,605	\$12,012,943	7.8%	\$163,785,893	\$10,367,231	6.8%	

Project Minutes

Project: New Stoneham High School Project No.: 20033
 Prepared by: Joel Seeley Meeting Date: 3/17/2022
 Re: Ad Hoc VE Subcommittee Meeting Time: 5:00pm
 Location: Central Middle School Library and Remote Locations Meeting No: 4
 Distribution: Attendees (MF)

Attendees:

PRESENT	NAME	AFFILIATION
✓	Marie Christie	Co-Chair, School Building Committee
✓	David Bois	Co-Chair, School Building Committee; Community Member with Architecture Experience
✓	Nicole Nial	School Committee Member
✓	Douglas Gove	Community Member with Engineering Experience
✓	Stephen O'Neill	Vice-Chair, Community Member with Engineering Experience
✓	Jeanne Craigie	Town Moderator
✓	Paul Ryder	Community Member with Construction Experience
✓	David Pignone	Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility
✓	Dennis Sheehan	Town Administrator / MCPPO Certified
✓	John Macero	Superintendent of Schools, Secretary of School Building Committee
	Bryan Lombardi	Stoneham High School Principal
✓	Brooke Trivas	Perkins and Will
Attended Remote	Stephen Messinger	Perkins and Will
Attended Remote	Patrick Cunningham	Perkins and Will
✓	Kristy Lyons	Consigli Construction
✓	Todd McCabe	Consigli Construction
	Tim Ericson	Consigli Construction
✓	Robert Smith	SMMA
✓	Joel Seeley	SMMA

Item #	Action	Discussion
4.01	Record	D. Bois provided an overview of the VE process: tonight's meeting, Consigli will provide an anticipated cost range for the DD Construction Cost estimate; the Subcommittee will review their Compiled Preferences related to the 3/7/22 Consigli VM Log; and Consigli will review the current non-priced VM Log inclusive of DD VE Items. At the 3/24/22 Ad Hoc VE Subcommittee meeting, Consigli will present the priced VM Log for Subcommittee action and recommendation to the SSBC. The SSBC will review and vote on the priced VM Log items at their 3/28/22 and 4/4/22 meetings leading to approval of the DD submission to MSBA.

Item #	Action	Discussion
4.02	T. McCabe	<p>T. McCabe indicated the DD Construction Cost estimate is trending \$9 - \$11M over the \$153.4M budget. T. McCabe indicated this range is based solely on the Consigli estimate, which is not completed, and has not been reconciled with the PM&C estimate.</p> <p>Subcommittee Discussion:</p> <ol style="list-style-type: none"> 1. D. Bois asked T. McCabe to provide a general narrative on where and why the larger overages have occurred at the next meeting. 2. D. Gove asked if eliminating the geothermal system can be considered? <i>D. Bois indicated that any VE Item is on the table.</i> 3. D. Gove asked what estimating contingency and escalation rates have been carried in the estimate? <i>T. McCabe indicated a 5% estimating contingency and 6% annual escalation have been carried in the estimate.</i> 4. Several members expressed that the project should seek additional funding from Town Meeting for the overages, pausing the project. 5. D. Sheehan expressed if the project is paused for additional appropriation, escalation may overtake any increased budgets. 6. D. Sheehan indicated there are many other identified Town projects that will be seeking Town Meeting appropriations in the future. 7. J. Macero indicated grouping other Town projects with an additional high school appropriation could be considered. 8. J. Craigie reviewed the additional appropriation from Town Meeting that occurred for the Colonial Park school project. 9. D. Bois indicated the Subcommittee's process should be to support reductions that will provide a functional school with smart additions thru additive alternates that make up any delta that the community may support.
4.03	J. Seeley T. McCabe B. Trivas	<p>D. Bois reviewed the Ad Hoc VE Subcommittee Member's Compiled Preferences to the 3/7/22 Consigli VM Log, attached.</p> <p>Subcommittee Discussion:</p> <ol style="list-style-type: none"> 1. J. Craigie asked if only eight of the Subcommittee members provided their preferences? <i>D. Bois indicated yes, however an additional preference was provided tonight and J. Seeley will update and forward to the Subcommittee.</i>

Item #	Action	Discussion
		<ol style="list-style-type: none"><li data-bbox="521 401 1409 457">2. J. Craigie indicated there are fourteen items with 4 or members preference under the “Consider only if Required by Budget” category.<li data-bbox="521 485 1435 695">3. D. Bois recommended that the Subcommittee discuss the “Should Not be Considered” category that have 4 or members preference and determine if any can be moved to the “Consider only if Required by Budget” category. After Subcommittee discussion, the following adjustments were made:<ol style="list-style-type: none"><li data-bbox="618 638 1435 695">a. Item IN-60 Fume Hoods Physics – consider move to “Consider only if Required by Budget”.<li data-bbox="618 722 1435 814">b. Item IN-61 Fume Hoods Chemistry/Biology – consider changing to recirculating hoods and consider move to “Consider only if Required by Budget”.<li data-bbox="618 835 1435 892">c. Item CL-14 South Synthetic Field - consider move to “Consider only if Required by Budget”.<li data-bbox="618 913 1435 970">d. Item CL-27b Sports Lighting at Two Fields - consider move to “Consider only if Required by Budget”.<li data-bbox="521 997 1435 1388">4. The following items were reviewed and after Subcommittee discussion, the following actions were made:<ol style="list-style-type: none"><li data-bbox="618 1079 1398 1136">a. IN-04 Food Service Equipment – Consigli to not price, will not be considered.<li data-bbox="618 1163 1338 1220">b. IN-68 Culinary Equipment - Consigli to not price, will not be considered.<li data-bbox="618 1247 1349 1274">c. D-35 Intercom - Consigli to not price, will not be considered.<li data-bbox="618 1289 1403 1346">d. CL-27c Sports Lighting at Three Fields - Consigli to not price, will not be considered.<li data-bbox="618 1373 1419 1400">e. CL-44 Field Irrigation - Consigli to not price, will not be considered.<li data-bbox="521 1415 1435 1703">5. The following items require clarification from Perkins&Will:<ol style="list-style-type: none"><li data-bbox="618 1472 1382 1598">a. D-38 – Air Conditioning – B. Trivas to provide expected comfort ranges of providing partial air conditioning (dehumidification) to teaching spaces with full air conditioning in Auditorium, Library, Offices and Administration.<li data-bbox="618 1625 1435 1703">b. CL-02 East Parking Lot Curb – B. Trivas to confirm what type of curbing is shown on the DD Pricing set. If Cape Cod Berm is shown, Consigli to change estimate to reflect Vertical Granite Curbing.

Item #	Action	Discussion
		c. CL-03 West Parking Lot Curb – B. Trivas to confirm what type of curbing is shown on the DD Pricing set. If Cape Cod Berm is shown, Consigli to change estimate to reflect Vertical Granite Curbing.
	T. McCabe B. Trivas Subcommittee	T. McCabe reviewed the Non-Priced VM Log, dated 3/17/22, attached. Subcommittee Discussion: <ol style="list-style-type: none"> 1. D. Bois asked T. McCabe to provide the Priced VM Log in advance of the 3/24/22 Ad Hoc VE Subcommittee meeting for members to review. 2. D. Bois asked B. Trivas and T. McCabe to provide supplemental narrative/visual description of each VE item as needed for the next Subcommittee meeting. 3. D. Bois reviewed a list of potential additional VE Items: <ol style="list-style-type: none"> a. Simplify the concrete paving at the Front Entry. b. Simplify the concrete paving at Spartan Place. c. Delete all chain link fencing around the North Soccer Field. d. Delete all chain link fencing around the South Soccer field. e. Delete the Sun Shades. f. Where is Stucco being used? g. Where are Butcher Block counters being used? h. Where is Stretch Fabric being used? 4. Subcommittee members to send any additional questions or VE Items to J. Seeley to consolidate and forward to Consigli for pricing.
4.04	Record	A Motion was made by S. O'Neill and seconded by D. Gove to adjourn the meeting. No discussion, motion passed unanimous.
4.05	Record	Next Ad Hoc VE Subcommittee Meeting: 3/24/22 at 5:00pm.

Attachments: Agenda, Ad Hoc VE Subcommittee Member's Compiled Preferences to the 3/7/22 Consigli VM Log, Non-Priced VM Log

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 Minutes

Project: New Stoneham High School
 Prepared by: Joel Seeley
 Re: Construction Subcommittee Subset Meeting
 Location: Remote Locations
 Distribution: Attendees (MF)

Project No.: 20033
 Meeting Date: 3/11/2022
 Time: 9:00am
 Meeting No: 5

Attendees:

PRESENT	NAME	AFFILIATION
✓	Douglas Gove	Community Member with Engineering Experience
✓	Paul Ryder	Community Member with Construction Experience
✓	Kevin Yianacopolus	Local Official responsible for Building Maintenance
✓	Brian McNeil	Town Facilities Director
✓	Dennis Sheehan	Town Administrator
	John Macero	Superintendent of Schools, Secretary of School Building Committee
	Raymie Parker	Select Board Member
✓	Chief McIntyre	Stoneham Police Department
✓	Chief Grafton	Stoneham Fire Department
✓	Bryan Lombardi	High School Principal
	Brooke Trivas	Perkins and Will
✓	Stephen Messinger	Perkins and Will
✓	David Warner	Warner Larson
✓	Kristy Lyons	Consigli Construction
	Todd McCabe	Consigli Construction
✓	Steve Banak	Consigli Construction
✓	Matt Guimond	Consigli Construction
✓	Robert Smith	SMMA
✓	Joel Seeley	SMMA

Item #	Action	Discussion
5.1	K. Lyons M. Guimond J. Seeley S. Banak B. McNeil B. Lombardi	K. Lyons reviewed the Summer 2022 Site plan, the Summer 2022 – Summer 2024 Site plan and the detailed Summer 2022 Construction Schedule. Subcommittee Discussion: <ol style="list-style-type: none"> 1. M. Guimond to determine the blasting requirements, including pre-blast survey requirements. <i>(from prior meeting)</i> 2. K. Lyons indicated Consigli is in the process of determining the extent of Stockpile area needed. <i>(from prior meeting)</i> 3. J. Seeley to coordinate with D. Sheehan on meeting with Boxwood Road neighbors. <i>(from prior meeting)</i>

Item #	Action	Discussion
		<ol style="list-style-type: none"><li data-bbox="521 390 1438 449">4. K. Lyons to tag the trees that would need to be removed to extend Boxwood Road up to the high school property. <i>(from prior meeting)</i><li data-bbox="521 468 1438 600">5. B. Lombardi asked will vehicular access to the existing school from Franklin Street be available to the students by 8/15/22? <i>K. Lyons indicated yes, however construction work will need to be performed every Saturday and Sunday and the additional cost included in the budget.</i><li data-bbox="521 619 1438 751">6. K. Lyons indicated access from Franklin Street will be maintained from 6/15/22 to approximately 7/15/22 when the temporary Boxwood Road gravel access will be completed, at which time the 23 full time staff will use the Boxwood Road access until 8/15/22.<li data-bbox="521 770 1438 966">7. Chief Grafton asked if the Boxwood Road access will be a permanent emergency access? <i>D. Sheehan indicated no, the temporary Boxwood Road access will be gravel and have a keyed gate and be used only by the 23 full time staff in Summer 2022 and 2023, after which the gravel will be removed and the area replanted. There will be a permanent emergency access at Benjamin Terrace.</i><li data-bbox="521 984 1438 1079">8. Chief Grafton asked that the temporary Boxwood Road gravel access be plowed in the winter. <i>B. McNeil will plow in the winter.</i><li data-bbox="521 1098 1438 1157">9. D. Gove asked if the pedestrian path from Boxwood Road will remain? <i>J. Seeley indicated yes, the drawings indicate it being regraded and paved.</i><li data-bbox="521 1176 1438 1339">10. B. McNeil asked if Consigli can relocate the sports equipment that is currently in the area of the temporary parking lot and stockpile location prior to construction? <i>S. Banak indicated yes, Consigli will meet with B. McNeil to identify the scope and include in the Early Site documents.</i><li data-bbox="521 1358 1438 1453">11. S. Messinger asked if a full list of existing sports equipment can be provided to Perkins&Will to determine any VE potential. <i>B. McNeil will provide.</i><li data-bbox="521 1472 1438 1566">12. D. Sheehan asked how will water use be metered during construction? <i>S. Banak indicated Consigli will request a temporary water meter from DPW and connect either off the main or a fire hydrant.</i><li data-bbox="521 1585 1438 1749">13. S. Banak indicated that access into the building thru the existing main entry may be prohibited during certain times in Summer 2022 due to proximate construction activities. <i>B. Lombardi indicated the staff will be able to utilize alternate building entries.</i>

Item #	Action	Discussion
		<p>14. B. Lombardi asked if a temporary fence with scrim can be added to isolate the temporary dumpster/loading area from the student outdoor dining area behind the existing building? <i>S. Banak indicated yes, Consigli can add a temporary fence with scrim at this area.</i></p> <p>15. Chief Grafton indicated the existing drive behind the school can accommodate fire vehicles.</p> <p>16. Chief Grafton requested a plan showing the location of the existing fire hydrants that will remain during construction and the location of the new hydrants. <i>S. Banak will provide for review and also include in the NFPA 241 Plan.</i></p> <p>17. K. Lyons reviewed the emergency exit pathways from the east side of the existing building. <i>B. Lombardi to meet with the SRO and define the access to and location of the emergency muster locations for the students.</i></p> <p>18. K. Lyons reviewed the bus, parent and public vehicle circulation plan during the two years of construction. <i>B. Lombardi to meet with J. Macero and decide on the location of parent drop-off/pick-up. Chief McIntyre recommends parent drop-off/pick-up be located in the temporary parking lot and not the upper lot.</i></p> <p>19. K. Lyons to review curving the driveway between the temporary parking lot and the upper lot to accommodate an easier right turn and allow for one-direction traffic around the temporary lot. Chief McIntyre recommends having one-direction traffic around the temporary lot.</p> <p>20. K. Lyons reviewed the temporary traffic signal plan at Franklin Street, which is still in progress with Vanasse, the traffic consultant, and will provide further direction at the next meeting.</p>
5.2	Record	Next Construction Subcommittee Subset Meeting: 3/18/22 at 9:00am remote.

Attachments: Summer 2022 Site plan, the Summer 2022 – Summer 2024 Site plan and the detailed Summer 2022 Construction Schedule

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 Minutes

Project: New Stoneham High School
 Prepared by: Joel Seeley
 Re: Green Building Initiatives Meeting
 Location: Remote Locations
 Distribution: Attendees (MF)

Project No.: 20033
 Meeting Date: 3/7/2022
 Time: 11:00am
 Meeting No: 22

Attendees:

PRESENT	NAME	AFFILIATION
	Marie Christie	Co-Chair, School Building Committee
	David Bois	Co-Chair, School Building Committee
✓	Raymie Parker	Chair, Select Board
✓	Dennis Sheehan	Town Administrator
✓	April Lanni	Town Procurement Officer / MCPPO Certified
	John Macero	Superintendent of Schools
✓	Brian McNeil	Facilities Director
✓	Erin Wortman	Director, Planning and Community Development
✓	Susan McPhee	Energy Conservation Coordinator
	Vamshi Gooje	Thornton Tomasetti
	Brooke Trivas	Perkins and Will
✓	Patrick Cunningham	Perkins and Will
✓	Stephen Messinger	Perkins and Will
	Ryan Flynn	BALA
✓	Steve Burke	Consigli
✓	Tom Michelman	SEA
✓	Robert Smith	SMMA
✓	Joel Seeley	SMMA

Item #	Action	Discussion
22.1	Record	Proposals were received from Sunwealth Power Inc., Kearsarge Solar LLC, Solect Energy Development, Ameresco, Inc., and Nexamp, Inc.
22.2	Record	T. Michelman reviewed the combined Non-Price Evaluations, attached.
22.3	Record	T. Michelman reviewed the Price Evaluations, attached.
22.4	A. Lanni	Upon review and discussion of the Non-Price and Price Evaluations, the Green Building Initiatives Working Group approves Solect Energy Development, Ameresco, Inc., and Nexamp, Inc. to be invited to interview for the project. Interviews will be virtual, on 3/18/22 between 9:00am – 12:00pm, with each firm allotted 45 minutes for presentation/questions/answers. A. Lanni to notify each firm.

Project: New Stoneham High School

Meeting Date: 3/7/2022

Meeting No.: 22

Page No.: 2

Item #	Action	Discussion
22.5	Working Group	Working Group members to send A. Lanni and T. Michelman suggested interview questions for compiling and vetting. A. Lanni to send the final questions to each firm to be interviewed.
22.6	Record	The three interviewed firms will be asked for their best and final financial proposal at the completion of their interview.
22.7	Record	Next Green Building Initiatives Meeting: Friday, 3/18/2022 at 9:00am, remote.

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

1000 Massachusetts Avenue
Cambridge, MA 02138
617.547.5400

www.smma.com

Project Minutes

Project:	New Stoneham High School	Project No.:	20033
Prepared by:	Joel Seeley	Meeting Date:	3/9/2022
Re:	Franklin Place Neighbors Meeting	Time:	9:00am
Location:	Franklin Place	Meeting No:	1
Distribution:	Attendees, J. Macero, SSBC (MF)		

Attendees:

PRESENT	NAME	AFFILIATION
✓	Mr. Rotondi	6 Franklin Place
✓	Mr. Develin	4 Franklin Place
✓	Mr. and Mrs. Walters	155 Franklin Street
✓	Dennis Sheehan	Town Administrator
	John Macero	Superintendent of Schools
✓	David Warner	Warner Larson
✓	Robert Smith	SMMA
✓	Joel Seeley	SMMA

Item #	Action	Discussion
1.1	Record	J. Seeley distributed an email from Mr. Rotondi, dated 7/1/21, Excerpts from Site Drawings C5-01, C5-02, L02-01, L03-01, and L04-01, dated 2/28/2022 and half-size versions of same, all attached.
1.2	Design Team School Department	D. Warner reviewed the Site Drawings. Discussion: <ol style="list-style-type: none"> Design Team to review grading, swale and drainage options to preserving the two red maple trees adjacent to the 6 Franklin Place driveway. Existing school drive street lighting will be removed. The streetlight on the existing utility pole at 6 Franklin Place driveway to remain. Design Team to review footcandle spread from pedestrian lights along new walkway. Adding a similar street light pole to the utility pole at 4 Franklin Place may be an option. School drive light closest to Franklin Street reported to be out, School Department to review.
1.3	Design Team	J. Seeley reviewed the items listed on the email from Mr. Rotondi, dated 7/1/21. <ol style="list-style-type: none"> Keep 6 franklin place sidewalk wide at least up to 4 franklin place where the storm drains are. <i>Discussion: The Franklin Place sidewalk will remain in place up to the catch basin at 4 Franklin Place.</i> Repave 6 Franklin Place at least up to storm drains. <i>Discussion: Repaving Franklin Place and sidewalk, is not in the project scope or budget. D. Sheehan explained the standards and process for the Town to accept a private way as a public way.</i>

Item #	Action	Discussion
		<p>3) Explore putting 4 poles of utilities underground on 6 franklin place to remove obstructions and beautify entrance area and eliminate pinch point at Franklin street and Franklin place entrance. <i>Discussion: Removing the utility poles and installing the utility services underground is not in the project scope or budget.</i></p> <p>4) If trash is still going to be picked up at High school entrance road for 6 Franklin place need to create paved walk ways that go from 6 Franklin out to high school exit road. I am assuming all walk ways for pedestrians are wide enough for a plow truck to remove snow. <i>Discussion: Twelve foot wide sidewalk added from Franklin Place to new school drive to allow trash containers to be brought to new school drive by neighbors. Sidewalk has four feet stabilized shoulders and can support vehicles. Design Team to review adding flared end to sidewalk at Franklin Place to allow trash vehicles to turn around on Franklin Place.</i></p> <p>5) 4 franklin place should have extra wide trash walkway turn around area for emergency vehicles running from 6 Franklin Place to high school exit road. <i>Discussion: Twelve foot wide sidewalk added from Franklin Place to new school drive to allow emergency vehicles access. Sidewalk has four feet stabilized shoulders and can support vehicles. Design Team to review adding a bollard to the sidewalk at the new school drive to deter unauthorized access.</i></p> <p>6) As I mentioned drainage concerns with single drain in front of 4 Franklin place that handles all drainage coming down from existing parking lot area and tennis court at high school that flows down current exit road at high school. <i>Discussion: New school drive is shifted west from current location and four catch basins are included to capture the surface water flow. Design Team to review keeping existing catch basin in front of 4 Franklin Place.</i></p> <p>7) Create a year round green buffer in between 6 franklin place and existing tennis court area at high school. (would like to see proposal and comment) <i>Discussion: Design Team to review adding evergreen or similar buffer and reducing other plantings to maintain budget.</i></p> <p>8) Interested in understanding specific vegetate plan (placement and design) for new expanded green space area along Franklin place. (would like to see proposal and comment) <i>Discussion: Planting plan reviewed, locations will be staked by the construction manager for review by neighbors prior to planting, 6 Franklin Place yard is used for sledding in the winter.</i></p> <p>9) Obviously minimize dust during construction. <i>Discussion: Construction Manager is required to minimize dust during construction.</i></p>

Project: New Stoneham High School

Meeting Date: 3/9/2022

Meeting No.: 1

Page No.: 3

Attachments: Email from M. Rotondi, dated 7/1/21, Excerpts from Site Drawings C5-01, C5-02, L02-01, L03-01, and L04-01, dated 2/28/2022, half-size Site Drawings C5-01, C5-02, L02-01, L03-01, and L04-01, dated 2/28/2022

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

RE: Driveway meeting

Mike Rotondi <mjrotondi@comcast.net>

Thu 7/1/2021 11:58 AM

To: Seeley, Joel <jseeley@smma.com>; 'John Macero' <jmacero@stonehamschools.org>; 'Sheehan, Dennis' <DSheehan@stoneham-ma.gov>

Cc: 20033 - Stoneham HS OPM Services <20033@smma.com>

 3 attachments (16 MB)

PXL_20210701_150805973.jpg; PXL_20210701_150730314.jpg; PXL_20210701_150629409.jpg;

John & Joel

Thank you for our meeting on site.

Just to go over some of the issues we discussed especially as it relates to trash pick up and emergency vehicle access.

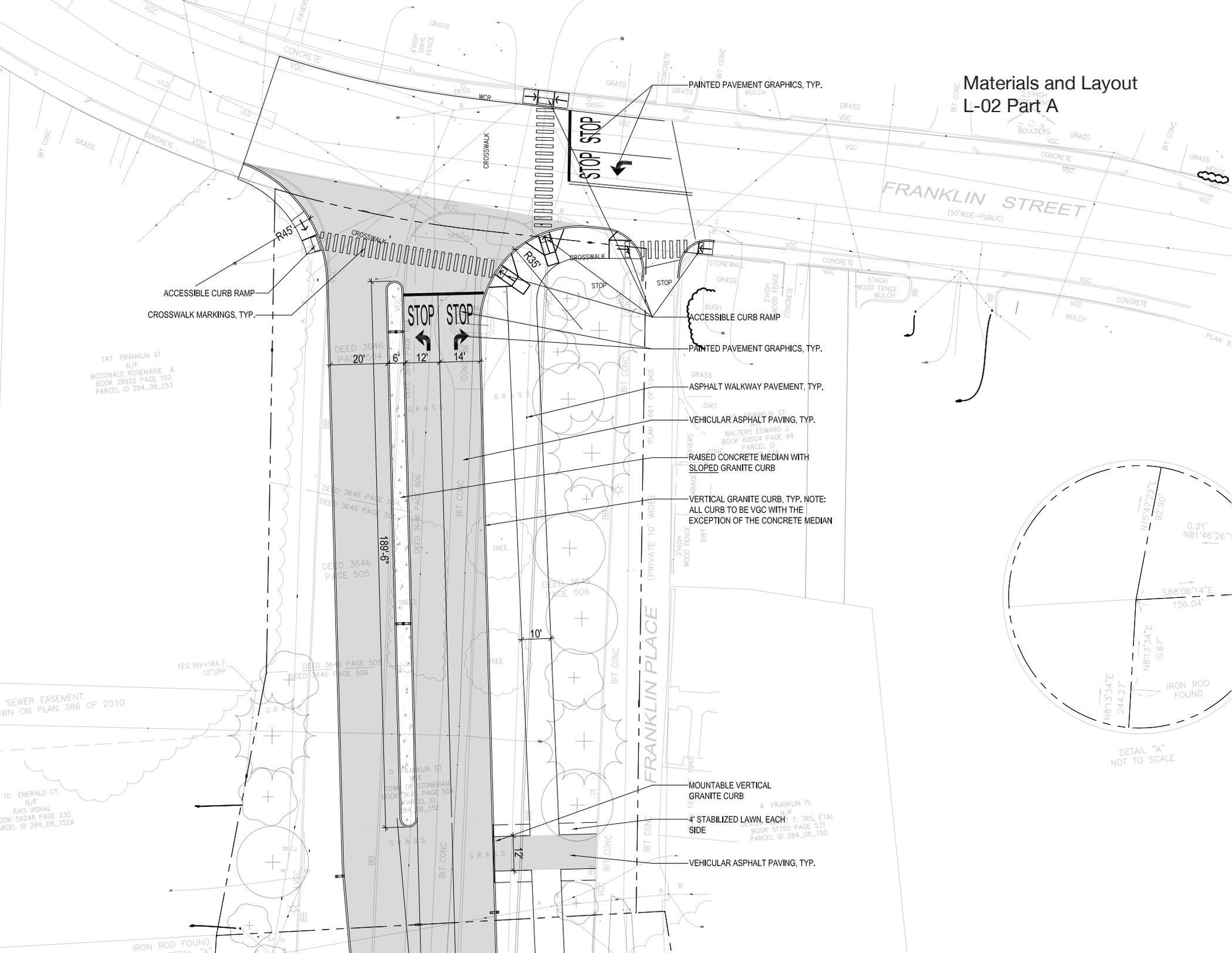
- 1) Keep 6 franklin place sidewalk wide at least up to 4 franklin place where the storm drains are. (see attached pics)
- 2) Repave 6 Franklin Place at least up to storm drains.
- 3) Explore putting 4 poles of utilities under ground on 6 franklin place to remove obstructions and beautify entrance area and eliminate pinch point at Franklin street and Franklin place entrance.
- 4) If trash is still going to be picked up at High school entrance road for 6 Franklin place need to create paved walk ways that go from 6 Franklin out to high school exit road. I am assuming all walk ways for pedestrians are wide enough for a plow truck to remove snow.
- 5) 4 franklin place should have extra wide trash walkway turn around area for emergency vehicles running from 6 Franklin Place to high school exit road.
- 6) As I mentioned drainage concerns with single drain in front of 4 Franklin place that handles all drainage coming down from existing parking lot area and tennis court at high school that flows down current exit road at high school.
- 7) Create a year round green buffer in between 6 franklin place and existing tennis court area at high school. (would like to see proposal and comment)
- 8) Interested in understanding specific vegetate plan (placement and design)for new expanded green space area along Franklin place. (would like to see proposal and comment)
- 9) Obviously minimize dust during construction.

Anything else?

I will include Al and Terry Devlin at 4 Franklin Place and Ed Walters at the beginning of Franklin Place and Franklin Street.

Thanks Mike

Materials and Layout L-02 Part A



147 FRANKLIN ST
N/F
MCDONALD ROSEMARIE A.
BOOK 28922 PAGE 152
PARCEL ID 284_08_153

ACCESSIBLE CURB RAMP
CROSSWALK MARKINGS, TYP.

DEED 3646
PAGE 504
20'

DEED 3646
PAGE 505
189'-6"

DEED 3646
PAGE 506
DEED 3646
PAGE 506

PAINTED PAVEMENT GRAPHICS, TYP.

STOP
STOP

PAINTED PAVEMENT GRAPHICS, TYP.

ASPHALT WALKWAY PAVEMENT, TYP.

VEHICULAR ASPHALT PAVING, TYP.

RAISED CONCRETE MEDIAN WITH
SLOPED GRANITE CURB

VERTICAL GRANITE CURB, TYP. NOTE:
ALL CURB TO BE VGC WITH THE
EXCEPTION OF THE CONCRETE MEDIAN

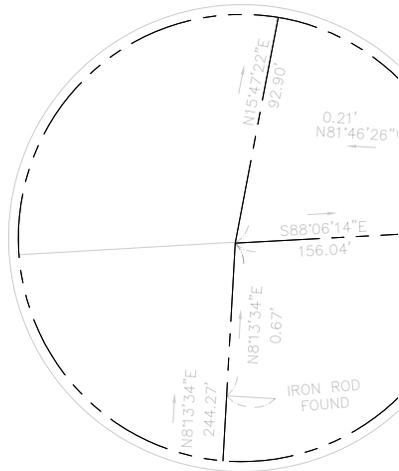
MOUNTABLE VERTICAL
GRANITE CURB

4' STABILIZED LAWN, EACH
SIDE

VEHICULAR ASPHALT PAVING, TYP.

FRANKLIN STREET
(50' WIDE - PUBLIC)

FRANKLIN PLACE
(PRIVATE 10' WIDE)



DETAIL "A"
NOT TO SCALE

SEWER EASEMENT
OWN ON PLAN 386 OF 2010

10 EMERALD CT
N/F
RAO VISHAL
BOOK 56248 PAGE 230
PARCEL ID 284_08_152A

IRON ROD FOUND
DETAIL "A"

4 FRANKLIN PL
N/F
I, TRS, ETAL
BOOK 51755 PAGE 531
PARCEL ID 284_08_150

AD, VISHAL
BOOK 56248 PAGE 230
PARCEL ID 284_08_152A

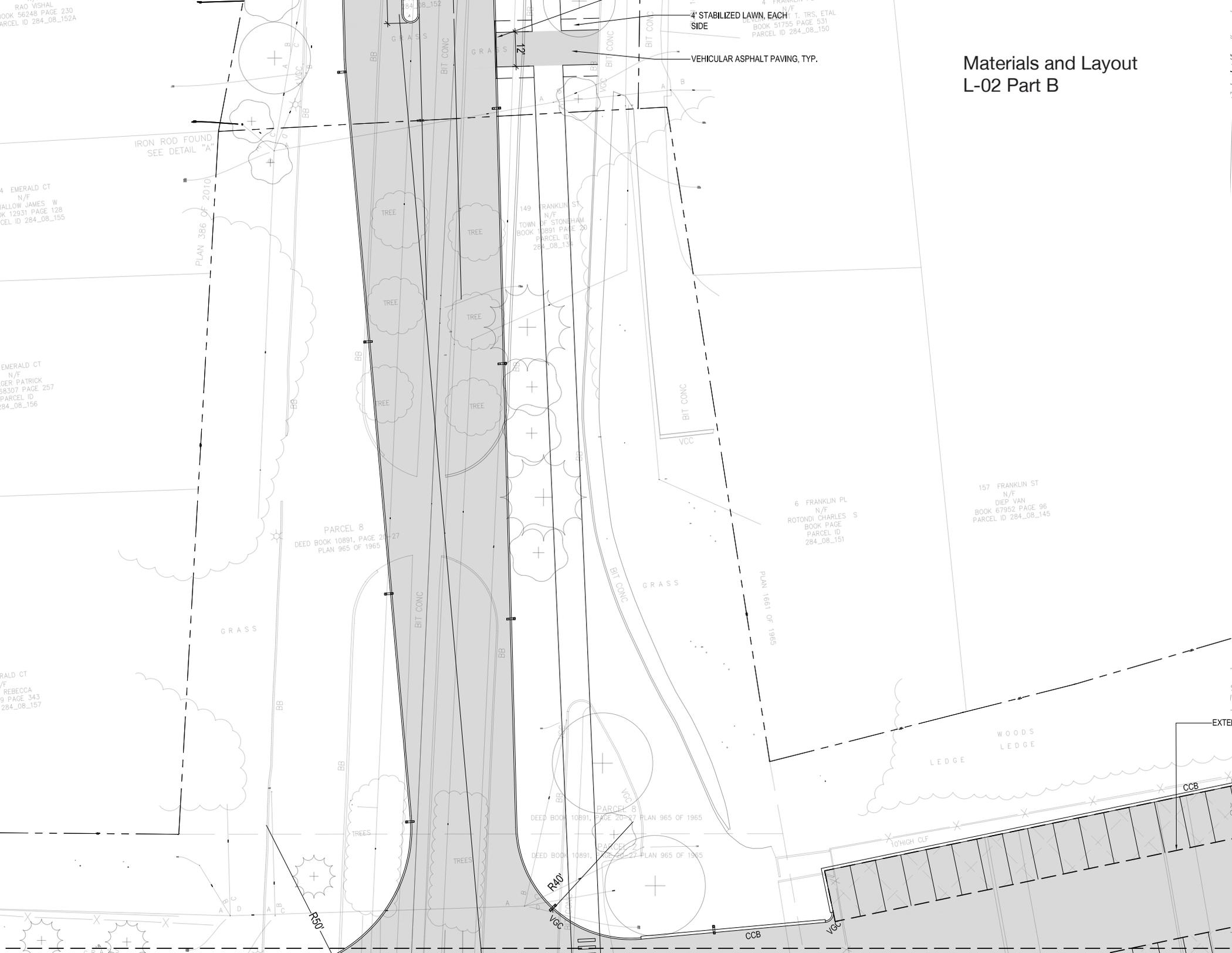
4 EMERALD CT
N/F
WALLOW JAMES W
BOOK 12931 PAGE 128
PARCEL ID 284_08_155

EMERALD CT
N/F
GERY PATRICK
BOOK 58307 PAGE 257
PARCEL ID
284_08_156

EMERALD CT
N/F
REBECCA
BOOK 58309 PAGE 343
PARCEL ID
284_08_157

4 FRANKLIN ST
N/F
DEVIN T. TRS, ETAL
BOOK 51755 PAGE 531
PARCEL ID 284_08_150

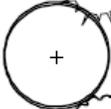
Materials and Layout L-02 Part B

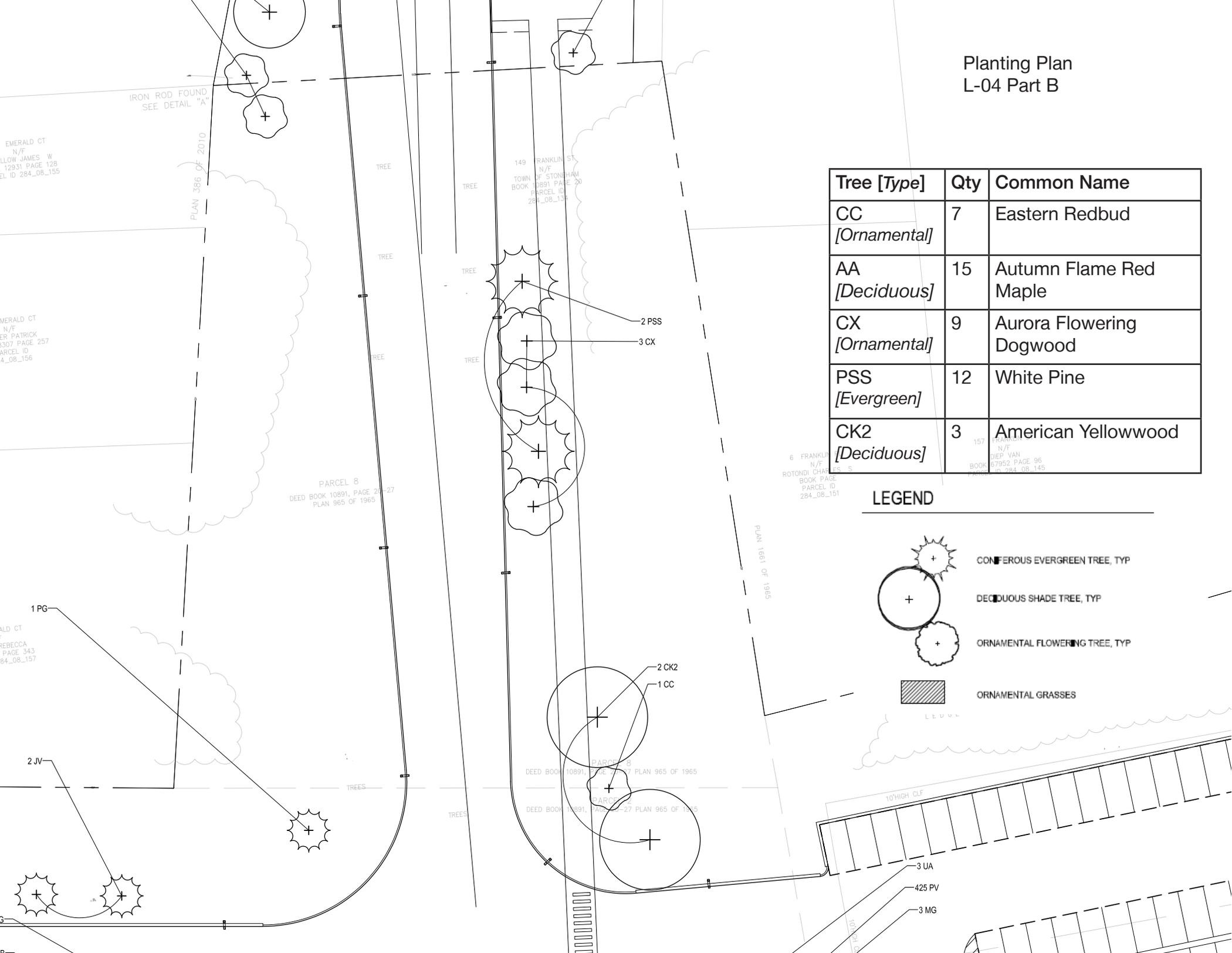


Planting Plan L-04 Part B

Tree [Type]	Qty	Common Name
CC [Ornamental]	7	Eastern Redbud
AA [Deciduous]	15	Autumn Flame Red Maple
CX [Ornamental]	9	Aurora Flowering Dogwood
PSS [Evergreen]	12	White Pine
CK2 [Deciduous]	3	American Yellowwood

LEGEND

-  CONIFEROUS EVERGREEN TREE, TYP
-  DECIDUOUS SHADE TREE, TYP
-  ORNAMENTAL FLOWERING TREE, TYP
-  ORNAMENTAL GRASSES



Site Utilities Plan C5-01 Part A

EMERALD COURT
(33' WIDE - PUBLIC)

FRANKLIN
(50' WIDE - PUBLIC)

FRANKLIN PLACE
(PRIVATE 10' WIDE)

CONNECT TO EXISTING DMH - CONTRACTOR TO
VERIFY INVERTS AND CONDITION OF EXISTING
STRUCTURE PRIOR TO PERFORMING ANY WORK
INV=167.20 (EX)

SEWER EASEMENT
AS SHOWN ON PLAN 386 OF 2010

WQS-200(4'Ø)
RIM=169.75
INV IN(CB-100)=164.90
INV IN(CB-101)=165.50
INV OUT=163.80

CB-100
RIM=169.25
INV=165.25

FES INV=163.9
12" CPP

R=169.26
A INV=161.6
B INV=161.6
C INV=161.6

R=168.77

WQS-202(4'Ø)
RIM=171.90
INV IN(CB-126)=167.90
INV IN(CB-127)=167.30
INV OUT=167.30

CB-127
RIM=171.40
INV=167.50

STOP STOP
CB-126
RIM=172.00
INV=168.00

CB-101
RIM=171.50
INV=166.50

R=170.78
A I=162.6(8"CI)
B I=162.3(8"CI)
C I=162.2(8"CI)

R=170.41
TOW=168.2

R=171.20
INV=168.8

R=170.95
INV=168.5

R=171.29
A INV=167.1
B INV=167.2
C INV=169.0
D INV=167.7

R=170.90
A INV=167.9
B INV=167.6
C INV=166.9
D INV=166.9

R=170.04
A INV=162.3
B INV=162.3

R=171.48
INV=BURIED

R=171.43
A INV=167.4
B INV=168.6
C INV=167.5

R=171.28
INV=169.4

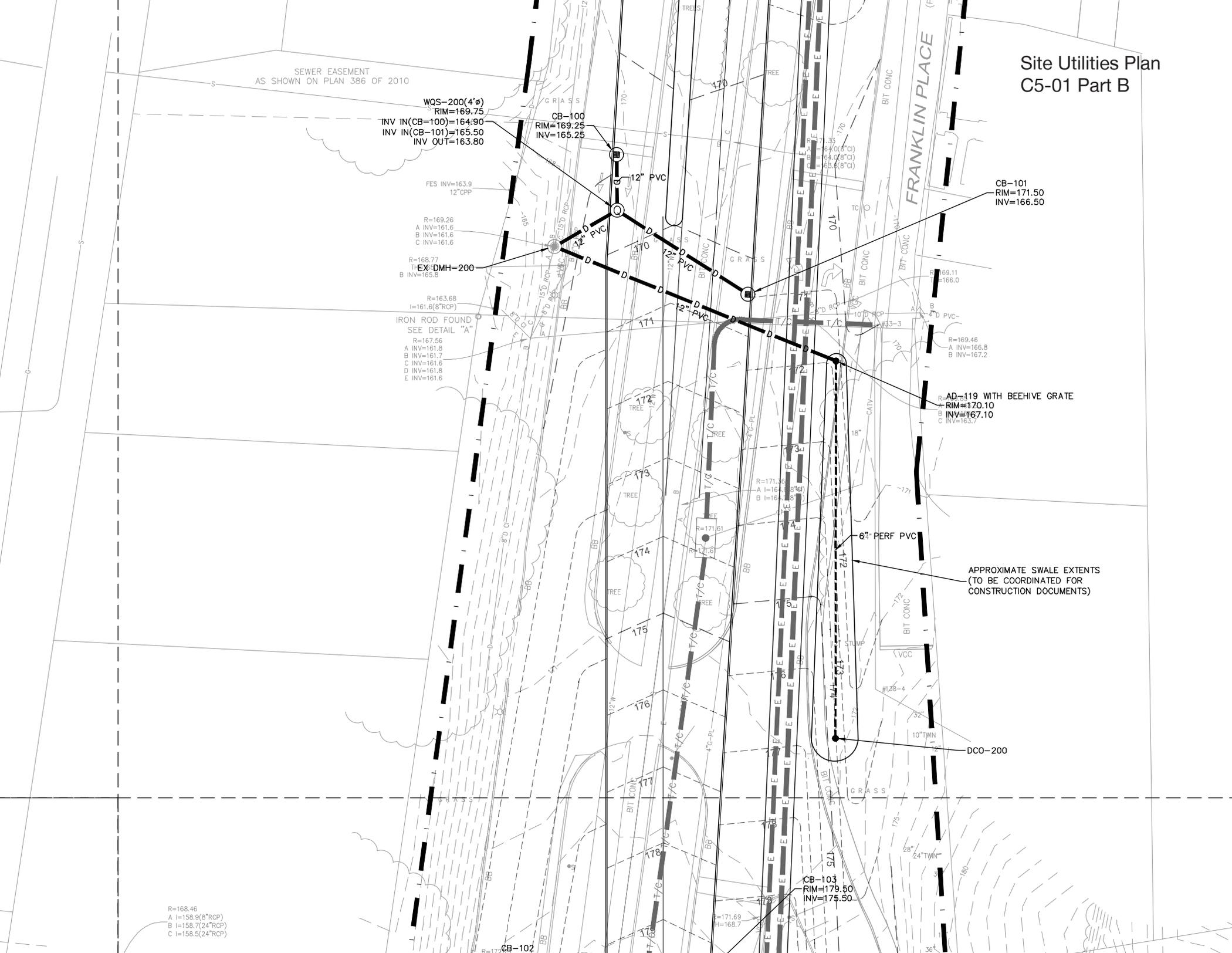
R=172.53
I=169.5(12"RCP)

R=171.78
A,B,C I=169.0(12"RCP)
D I=168.9(12"RCP)

R=172.56
A I=169.6(8"RCP)
B I=169.6(12"RCP)

8.0(8"CI)
6.0(8"CI)
6.5(8"CI)

Site Utilities Plan C5-01 Part B



SEWER EASEMENT
AS SHOWN ON PLAN 386 OF 2010

WQS-200(4')
RIM=169.75
INV IN(CB-100)=164.90
INV IN(CB-101)=165.50
INV OUT=163.80

CB-100
RIM=169.25
INV=165.25

FES INV=163.9
12"CPP

R=169.26
A INV=161.6
B INV=161.6
C INV=161.6

R=168.77
EX-DMH-200
B INV=165.8

R=163.68
I=161.6(8"RCP)

IRON ROD FOUND
SEE DETAIL "A"

R=167.56
A INV=161.8
B INV=161.7
C INV=161.6
D INV=161.8
E INV=161.6

CB-101
RIM=171.50
INV=166.50

R=169.11
T=166.0

R=169.46
A INV=166.8
B INV=167.2

AD-119 WITH BEEHIVE GRATE
RIM=170.10
INV=167.10
C INV=163.7

R=171.36
A I=166.8(8"RCP)
B I=166.8

APPROXIMATE SWALE EXTENTS
(TO BE COORDINATED FOR
CONSTRUCTION DOCUMENTS)

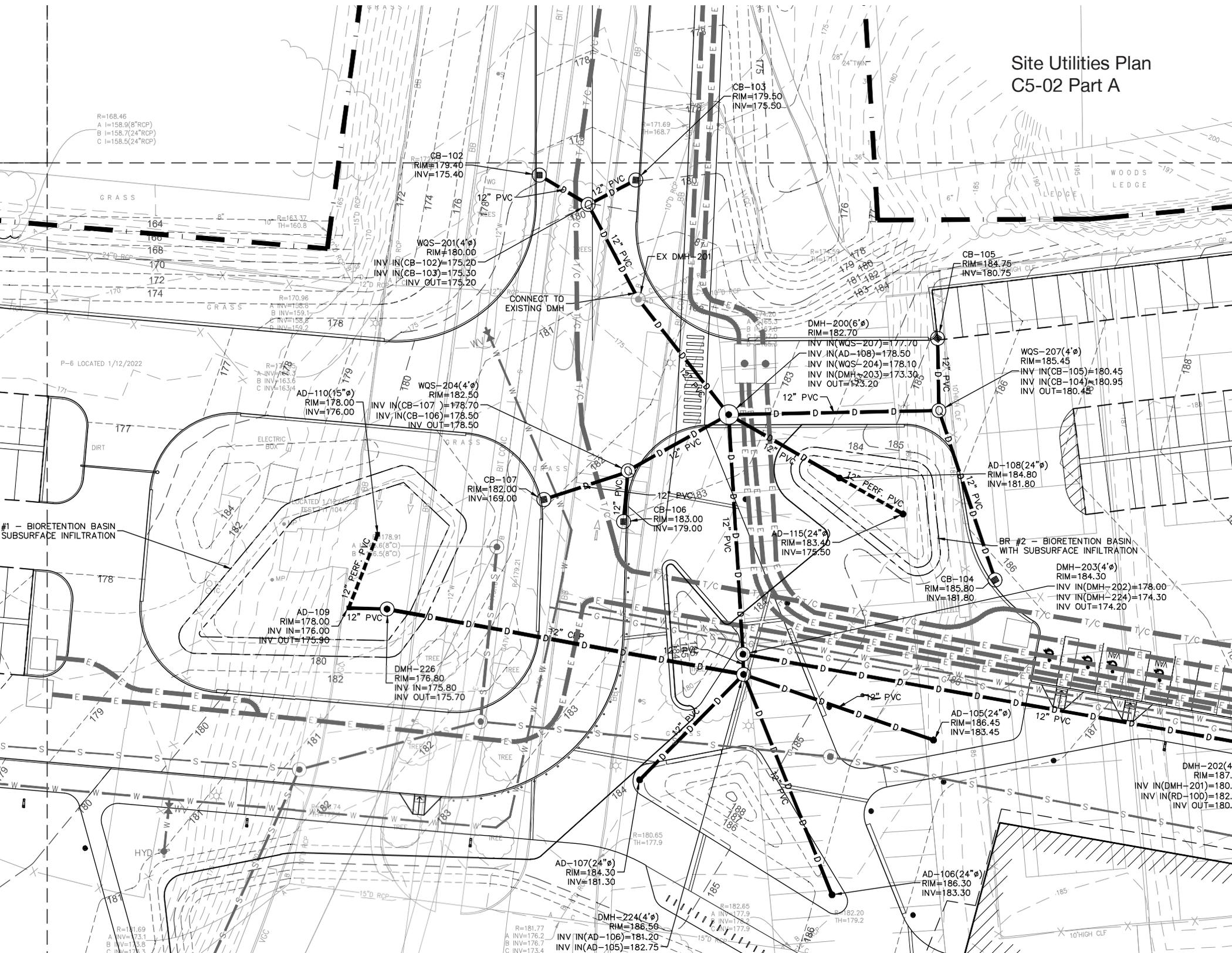
DCO-200

CB-103
RIM=179.50
INV=175.50

R=168.46
A I=158.9(8"RCP)
B I=158.7(24"RCP)
C I=158.5(24"RCP)

CB-102

Site Utilities Plan C5-02 Part A



R=168.46
A I=158.9(8"RCP)
B I=158.7(24"RCP)
C I=158.5(24"RCP)

CB-102
RIM=179.40
INV=175.40
WQS-201(4")
RIM=180.00
INV IN(CB-102)=175.20
INV IN(CB-103)=175.30
INV OUT=175.20

CB-103
RIM=179.50
INV=175.50

CB-105
RIM=184.75
INV=180.75

AD-110(15")
RIM=178.00
INV=176.00

WQS-204(4")
RIM=182.50
INV IN(CB-107)=178.70
INV IN(CB-106)=178.50
INV OUT=178.50

DMH-200(6")
RIM=182.70
INV IN(WQS-207)=177.70
INV IN(AD-108)=178.50
INV IN(WQS-204)=178.10
INV IN(DMH-203)=173.30
INV OUT=173.20

WQS-207(4")
RIM=185.45
INV IN(CB-105)=180.45
INV IN(CB-104)=180.95
INV OUT=180.45

AD-108(24")
RIM=184.80
INV=181.80

CB-107
RIM=182.00
INV=169.00

CB-106
RIM=183.00
INV=179.00

AD-115(24")
RIM=183.40
INV=178.50

CB-104
RIM=185.80
INV=181.80

DMH-203(4")
RIM=184.30
INV IN(DMH-202)=178.00
INV IN(DMH-224)=174.30
INV OUT=174.20

AD-109
RIM=178.00
INV IN=176.00
INV OUT=175.90

DMH-226
RIM=176.80
INV IN=175.80
INV OUT=175.70

AD-105(24")
RIM=186.45
INV=183.45

AD-107(24")
RIM=184.30
INV=181.30

AD-106(24")
RIM=186.30
INV=183.30

DMH-224(4")
RIM=186.50
INV IN(AD-106)=181.20
INV IN(AD-105)=182.75

DMH-202(4")
RIM=187.00
INV IN(DMH-201)=180.00
INV IN(RD-100)=182.00
INV OUT=180.00

Stoneham High School - Design Development

Value Management Log

As of: 3/28/2022

RECOMMENDED: \$153,354,454

Budget: 153,418,660

Delta: (\$64,206)



NO.	DATE	DESCRIPTION	VM AMOUNT	STATUS	AD-HOC MEETING DATE	RECOMMEND AMOUNT	PENDING AMOUNT	REJECTED AMOUNT
AD-HOC CONSIDER								
ENVELOPE								
EN-14a	06/08/21	EXTERIOR CLOSURE - Eliminate Community Terrace (Lev 2); Replace w/ typ roof construction	(\$95,427)	RECOMMEND	3/24/22	(\$95,427)		
EN-14b	03/28/22	EXTERIOR CLOSURE - Enclose a portion of the Community Terrace to create an interior egress route	Pending	RECOMMEND	3/24/22	\$0		
EN-34	01/19/22	EXTERIOR PANELS - Replace Porcelanosa panel with masonry **NOTE: Major redesign	(\$1,774,715)	RECOMMEND	3/24/22	(\$1,774,715)		
EN-37a	01/19/22	GLAZING - Replace triple glazing with double glazing -- 100% double glazing **NOTE: 0.7 EUI increase	(\$579,941)	RECOMMEND	3/24/22	(\$579,941)		
EN-37b	03/22/22	GLAZING - Replace triple glazing with double glazing -- 60% triple glazing, 40% double glazing **NOTE: 0.1 EUI increase	(\$231,977)					
EN-38/39	03/17/22	SKYLIGHT - Target \$125K savings in Skylight reduction East/West/North/South of Gymnasium **NOTE: IMPACT TO DAYLIGHTING	(\$125,000)	RECOMMEND	3/24/22	(\$125,000)		
EN-42	03/17/22	AUDITORIUM WALLS - Eliminate masonry joggging at North and South walls of Auditorium, run walls straight	(\$40,780)	RECOMMEND	3/28/22	(\$40,780)		
EN-43	03/17/22	WINDOWS - Change all punched windows from Curtainwall to Standard Punched Window Construction	(\$107,716)	RECOMMEND	3/24/22	(\$107,716)		
EN-48a	03/22/22	SUNSHADES - Eliminate vertical classroom fins (SS1A, SS1B, SS2A, SS2b)	(\$322,578)	RECOMMEND	3/24/22	(\$322,578)		
EN-48b	03/22/22	SUNSHADES - Eliminate horizontal sunshades (SS4)	(\$32,723)	RECOMMEND	3/24/22	(\$32,723)		
EN-50	03/22/22	EXTERIOR INSULATION - Reduce the insulation between studs from 4" Single Component Foam Insulation to 1" (3" reduction) and achieve an overall R-26.6 for the exterior wall	(\$206,659)	RECOMMEND	3/28/22	(\$206,659)		
INTERIORS								
IN-19	06/08/21	INTERIOR CONSTRUCTION - Operable Partitions - Corridors; Eliminate; replace with GWB and wall tile on corridor side 5ft high	(\$77,042)	RECOMMEND	3/28/22	(\$77,042)		
IN-22	06/08/21	INTERIOR CONSTRUCTION - Operable Partitions - Classrooms; Reduce operable partitions between classrooms by 4 ea	(\$134,275)	RECOMMEND	3/28/22	(\$134,275)		
IN-60/61a	03/22/22	SCIENCE EQUIPMENT - Change all fume hoods to recirculating type NOTE: Bala-Would eliminate lab type roof exhaust fans (one per fume hood) and stainless steel ductwork. Rooms with fume hood would still be exhausted at a high air change rate but energy from air could be recovered at Air Handling Units. Item would slightly increase Building EUI. CAN WE ELIMINATE # of fume hoods FURTHER?	(\$132,252)	RECOMMEND	3/24/22	(\$132,252)		
IN-89a	03/17/22	FLOORING - Change Porcelain Ceramic Floor Tile to Polished Concrete in Spartan Place	(\$286,390)	RECOMMEND	3/24/22	(\$286,390)		
IN-106	03/17/22	ADMIN CEILING - Change Gypsum Board ceilings in Administration Suite to standard ACT-1 ceiling	(\$19,115)	RECOMMEND	3/24/22	(\$19,115)		
IN-107	03/17/22	PRE-K ENTRY CEILING - Change Wood Ceiling in Pre-K Entry to standard ACT-1 ceiling	(\$47,165)	RECOMMEND	3/24/22	(\$47,165)		
IN-108	03/17/22	PRE-K LUNCH ROOM CEILING - Change Wood Ceiling in Pre-K Lunch Room to standard ACT-1 ceiling	(\$37,312)	RECOMMEND	3/24/22	(\$37,312)		
IN-125b	03/28/22	WET WALL TILE - Reduce tile at wet walls from varying heights to 5'-0"	(\$156,513)	RECOMMEND	3/28/22	(\$156,513)		
IN-130a	03/24/22	FIREPROOFING - Remove intumescent fire proofing from EXP-2 from auditorium, replace with spray fireproofing.	(\$64,156)	RECOMMEND	3/28/22	(\$64,156)		
SERVICES								
D-08	06/08/21	ELECTRICAL - Reduce hardwire tel/data drop quantities by 20%	(\$116,349)	RECOMMEND	3/24/22	(\$116,349)		
D-42	03/17/22	RAINLEADERS - Reduce storm drainage; target \$200k	(\$232,698)	RECOMMEND	3/28/22	(\$232,698)		

Stoneham High School - Design Development

Value Management Log

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RECOMMENDED: \$153,354,454

Budget: 153,418,660

Delta: (\$64,206)



NO.	DATE	DESCRIPTION	VM AMOUNT	STATUS	AD-HOC MEETING DATE	RECOMMEND AMOUNT	PENDING AMOUNT	REJECTED AMOUNT
D-46	03/18/22	HEAT RECOVERY UNITS - Reduction in ATC control points on the heat recovery condensing units	(\$158,652)	RECOMMEND	3/28/22	(\$158,652)		
D-47	03/18/22	DIFFUSERS - Reduce linear slot diffuser quantity by 50%; replace with standard registers, grilles & diffusers.	(\$46,580)	RECOMMEND		(\$46,580)		
D-52	03/18/22	ELECTRICAL PV DISTRIBUTION - Eliminate ductbanks to future PV locations at site; assume by PV vendor	(\$186,158)	RECOMMEND	3/24/22	(\$186,158)		
D-55	03/18/22	SITE LIGHTING - Reduce quantity of site lighting fixtures by 1/3 (31 ea)	(\$141,058)	RECOMMEND	3/28/22	(\$141,058)		
D-56a	03/22/22	PERFORMANCE ROOM HEAT RECOVERY UNIT - Eliminate HRU-11 and replace with (2) 4-ton ducted refrigerant fan coil units and associated air cooled condensing units	(\$109,919)	RECOMMEND	3/28/22	(\$109,919)		
D-60	03/22/22	CABINET UNIT HEATERS IN STAIRS - Eliminate CUH in stairs B, C & D on levels 2 & 3	(\$27,047)	RECOMMEND	3/24/22	(\$27,047)		
D-63	03/22/22	LIGHTING CONTROLS - Target reduction of lighting control package; \$250k direct cost	(\$290,872)	RECOMMEND	3/28/22	(\$290,872)		
D-64	03/28/22	LIGHTING - Target reduction of lighting package; target \$12.5/sf to \$2/sf	(\$481,864)	RECOMMEND	3/28/22	(\$481,864)		
CIVIL/LANDSCAPING								
CL-15	05/17/21	TURF FIELD - Change North Synthetic Turf Field to Seeded Grass Field only with irrigation	(\$805,347)	RECOMMEND	3/24/22	(\$805,347)		
CL-27a	06/08/21	SPORTSLIGHTING - Delete sports lighting at North Field	(\$445,311)	RECOMMEND	3/24/22	(\$445,311)		
CL-31	06/08/21	TRAFFIC SIGNALS - Traffic Signal & intersection work at High School Entrance by Town	(\$292,062)	RECOMMEND	3/24/22	(\$292,062)		
CL-32	06/08/21	TRAFFIC SIGNALS - Traffic Signal & intersection work at Stevens Street by Town	(\$525,024)	RECOMMEND	3/24/22	(\$525,024)		
CL-40	06/09/21	EQUIPMENT - Eliminate prefabricated dugouts at baseball and softball; add fencing	(\$169,842)	RECOMMEND	3/28/22	(\$169,842)		
CL-45	01/19/22	FENCING - Reduce height of 6 feet fencing to 4 feet (Tennis fencing to remain 10')	(\$90,224)	RECOMMEND	3/24/22	(\$90,224)		
CL-51	01/19/22	EQUIPMENT - Eliminate soccer nets, utilize existing	(\$43,631)	RECOMMEND	3/24/22	(\$43,631)		
CL-52	01/19/22	BLEACHERS - Eliminate visitors bleachers from Spartan Stadium	(\$124,424)	RECOMMEND	3/24/22	(\$124,424)		
CL-53	01/19/22	SEATING - Eliminate café seating area at Spartan Plaza (furniture only)	(\$82,521)	RECOMMEND	3/24/22	(\$82,521)		
CL-61a	03/17/22	TREES AND PLANTINGS - Reduce trees and plants scope by 50%	(\$129,075)	RECOMMEND	3/24/22	(\$129,075)		
CL-61b	03/17/22	TREES AND PLANTINGS - Reduce trees and plants scope by 25%	(\$64,537)					
CL-63	03/17/22	PRECAST ELEMENTS - Eliminate Precast benches and sidewalk at Amphitheater and grade uniformly	(\$235,027)	RECOMMEND	3/28/22	(\$235,027)		
CL-64	03/17/22	PRECAST BENCHES - Eliminate Precast Benches at Front Entry Plaza	(\$150,009)	RECOMMEND	3/28/22	(\$150,009)		
CL-77	03/24/22	ENTRY ROAD - Utilize existing entry drive, island and traffic signals/configurations	(\$457,791)	RECOMMEND	3/28/22			
CL-78	03/28/22	GEOHERMAL - Reduce Geothermal Wells from 60 to a total of 48; <i>Note: design refinement based on test well program</i>	(\$611,530)	RECOMMEND	3/28/22	(\$611,530)		
EQUIPMENT								
EQ-02	03/22/22	PERFORMANCE ROOM SEATING PLATFORMS - Reduce Black Box seating platforms by 1/2	(\$48,285)	RECOMMEND	3/24/22	(\$48,285)		
EQ-03	03/22/22	ACOUSTIC SHEELS - Eliminate acoustic shells at Auditorium Stage	(\$211,755)	RECOMMEND	3/24/22	(\$211,755)		
MULTI-DISCIPLINARY								
MD-21	03/17/22	SITE CONDUIT - Eliminate underground conduit from transformer to Electric Car Charging stations, to be by Eversource	(\$82,130)	RECOMMEND	3/28/22	(\$82,130)		

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MD-24b	03/28/22	PROGRAMMING - Eliminate district offices from HS; re-configure Pre-K program to eliminate approximately 5,100sf	(\$2,000,000)	RECOMMEND	3/28/22	(\$2,000,000)		
PENDING								
STRUCTURAL								
ST-16	03/17/22	FOUNDATIONS - Utilize Insulated Concrete Forms at Concessions Building	Reviewing	PENDING			\$0	
ST-17	03/22/22	CONCRETE SLABS - Utilize fiber reinforcement in lieu of wire mesh **NOTE: Consider impact on substrate	Reviewing	PENDING			\$0	
ENVELOPE								
EN-41	03/17/22	CMU SIZING - Increase size of ground face CMU from 4"x 4"x 24" to 4"x 8"x 16" **NOTE: REDESIGN REQUIRED Change at South and east façade only	(\$77,419)	PENDING	3/24/22		(\$77,419)	
EN-45	03/17/22	WINDOWS - Reduce exterior curtainwall glazing across entire building; replace with masonry; Target \$115k savings	(\$115,000)	PENDING			(\$115,000)	
EN-46	03/17/22	EXTERIOR SOFFITS - Change metal panel finish to Direct Applied Finish at all Exterior Soffits **NOTE: Concerns with durability	(\$378,285)	PENDING			(\$378,285)	
EN-47	03/17/22	ALUMINUM TRIM - Eliminate 10Ga alum trim and recess, porcelain panels to be flush **NOTE: MAJOR REDESIGN; **mutually exclusive with EN-34	(\$375,516)					
INTERIORS								
IN-45	06/08/21	PROGRAMMING - Eliminate Aud Orchestra Pit; Replace with additional stepped aisles with fixed seating	(\$92,428)	PENDING			(\$92,428)	
IN-59	06/08/21	VERTICAL CIRCULATION - Eliminate raised floor and lift in Control Room	(\$46,819)	PENDING			(\$46,819)	
IN-60	06/08/21	SCIENCE EQUIPMENT - Eliminate (2) fume hoods; from Physics	(\$34,905)	PENDING			(\$34,905)	
IN-61	06/08/21	SCIENCE EQUIPMENT - Eliminate (2) fume hoods; (1) from Chemistry and (1) from Biology	(\$34,905)					
IN-85	01/19/22	OVERHEAD DOOR - Replace Maker Space glazed overhead sliding acoustic doors with standard HM acoustic glass doors and sidelight	(\$48,309)	PENDING			(\$48,309)	
IN-90a	03/17/22	FLOORING - Change Polished Concrete Floor to Resilient Tile in all Science Rooms	(\$28,615)	PENDING			(\$28,615)	
IN-91a	03/17/22	FLOORING - Change Polished Concrete Floor to Resilient Tile in Art Rooms	(\$7,332)	PENDING			(\$7,332)	
IN-91b	03/22/22	FLOORING - Change Polished Concrete Floor to Stained Concrete in Art Rooms	(\$18,194)					
IN-92a	03/17/22	FLOORING - Change Polished Concrete Floor to Resilient Tile in Maker Space	(\$4,573)	PENDING			(\$4,573)	
IN-92b	03/22/22	FLOORING - Change Polished Concrete Floor to Stained Concrete in Maker Space	(\$11,348)					
IN-94	03/17/22	WALL TILE - Reduce Porcelain Wall Tile in Corridors by 25%	(\$148,431)	PENDING			(\$148,431)	
IN-95	03/17/22	WALL TILE - Reduce Porcelain Wall Tile in Pre-K Corridors by 50%	(\$46,717)	PENDING			(\$46,717)	
IN-96	03/17/22	SPARTAN PLACE CEILING - Change Wood Ceiling to standard ACT-4 ceiling in Spartan Place	(\$441,122)	PENDING			(\$441,122)	
IN-97a	03/17/22	OPERABLE PARTITION - Eliminate Operable Wall at Art Room; replace with standard wall construction and 30' of marker board on each side	(\$34,187)	PENDING			(\$34,187)	
IN-97b	03/22/22	OPERABLE PARTITION - Eliminate Operable Wall at Art Room; replace with standard wall construction and 30' of 12" deep casework on both side	(\$11,732)					
IN-100	03/17/22	STAIR FINISHES - Change polished concrete stair treads to rubber treads and risers on Monumental Stair (Level 1-2)	(\$30,025)	PENDING			(\$30,025)	
IN-101	03/17/22	STAIR FINISHES - Change polished concrete stair treads to rubber treads and risers on Stair A (Level 2-3)	(\$18,515)	PENDING			(\$18,515)	

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IN-102	03/17/22	STAIR FINISHES - Change polished concrete stair treads to rubber treads and risers on Stair near Auditorium	(\$17,014)	PENDING			(\$17,014)	
IN-103	03/17/22	MARKER BOARDS - Reduce size of Magnetic Marker Board, MMB-7, to standard size Magnetic Marker boards.	(\$3,054)	PENDING			(\$3,054)	
IN-104	03/17/22	FIRE DOORS - Change horizontal sliding fire door to standard rated swing doors at Gymnasium corridors, all floors	(\$33,738)	PENDING			(\$33,738)	
IN-105	03/17/22	MEDIA BRIDGE CEILING - Change Large Format ACT under Media Bridge to standard ACT-1 ceiling	(\$10,236)	PENDING			(\$10,236)	
IN-109	03/17/22	AUDITORIUM ENTRY - Change Gypsum Board ceiling in front of Auditorium to standard ACT-1 ceiling	(\$14,775)	PENDING			(\$14,775)	
IN-110	03/17/22	CEILING - Change Gypsum Board ceiling in SRO Office, Student Store and IT Offices to standard ACT-1 ceiling	(\$10,013)	PENDING			(\$10,013)	
IN-111	03/17/22	3rd FLOOR COORIDOR CEILING - Change Gypsum Board ceiling on 3rd floor corridor C-A3.0 to standard ACT-1 ceiling	(\$30,005)	PENDING			(\$30,005)	
IN-112	03/17/22	INTERIOR GLAZING - Eliminate Interior Glass on south wall of Gymnasium, 3rd floor, all look into HVAC Chase	(\$45,376)					
IN-113	03/17/22	INTERIOR GLAZING (GYM) - Reduce height of Interior Glass by 1/2 on east and west walls of Gymnasium that look onto ceiling plenum	(\$74,871)					
IN-114	03/17/22	INTERIOR GLAZING - Reduce the amount of Interior Glazing by 50%	(\$397,041)	PENDING			(\$397,041)	
IN-115	03/17/22	AUDITORIUM SIDE WALLS - Simplify Auditorium Interior north and south Side Wall construction; target \$50k direct costs	(\$58,174)	PENDING			(\$58,174)	
IN-123	03/17/22	SPARTAN PLACE BRICK - Eliminate custom angled CMU brick from spartan place CMU walls	Pending	PENDING			\$0	
IN-124	03/17/22	SHOWERS - Eliminate tile in showers and install fiberglass surrounds.	(\$3,575)	PENDING			(\$3,575)	
IN-125a	03/22/22	WET WALL TILE - Remove tile at wet walls in bathrooms	(\$350,939)					
IN-126	03/22/22	COUNTERTOPS - Culinary - Replace all stainless steel countertops with millwork and stone tops	(\$26,382)	PENDING			(\$26,382)	
IN-127	03/22/22	SCRAMBLE SERVING AREA - Remove Conveyor Oven and Exhaust Hood, Replace with Turbochef ventless pizza oven.	(\$10,355)	PENDING			(\$10,355)	
IN-128	03/22/22	CEILING - Eliminate finish ceilings in Stairs B, C & D	(\$13,749)	PENDING			(\$13,749)	
IN-129	03/22/22	AUDITORIUM CONCRETE - Change all polished concrete in Auditorium to stained concrete	(\$8,523)	PENDING			(\$8,523)	
SERVICES								
D-35	06/08/21	INTERCOM - Remove call switches from classrooms; rely solely on phones for communication.	(\$11,926)	PENDING			(\$11,926)	
D-38	06/09/21	AIR CONDITIONING - Reduce footprint of air conditioning; (Example: Remove AC from Level 3)	Not Viable	PENDING			\$0	
D-40	03/17/22	RADIANT HEATING - Change Radiant Underfloor Heating to standard HVAC heating in Cafeteria and Media Bridge **NOTE: ENERGY IMPACT **ALTERNATIVE HEATING METHOD REQUIRED	(\$35,602)	PENDING			(\$35,602)	
D-43	03/17/22	WATER COOLERS - Reduce the quantity of water coolers/bottle fillers by 50% total **PW to confirm	Not Viable	PENDING			\$0	
D-44	03/17/22	TOLIETS - Eliminate sensor flush valves; utilize manual flush	(\$33,159)	PENDING			(\$33,159)	
D-45	03/18/22	HEAT RECOVERY UNITS - Revert to HW and CHW coil types on the Heat Recovery Units	Not Viable					
D-49	03/18/22	ELECTRICAL TRANSFORMER - Relocate pad-mounted transformer closer to building (reduce run by 100lf)	Not Viable	PENDING			\$0	
D-51	03/18/22	ELECTRICAL GENERATOR - Relocate generator closer to building (currently 130lf)	Not Viable	PENDING			\$0	

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D-56b	03/22/22	PERFORMANCE ROOM HEAT RECOVERY UNIT - Tie to existing unit that serves Admin	(\$2,909)					
D-57	03/22/22	HOT WATER - Combine kitchen water heater with domestic water heaters	(\$12,102)	PENDING			(\$12,102)	
D-58	03/22/22	HOT WATER - Remove HW pre-heat system tank and HE	Pending	PENDING			\$0	
D-59	03/22/22	BACKFLOW PREVENTERS - Remove service backflow preventor	(\$3,279)	PENDING			(\$3,279)	
CIVIL/LANDSCAPING								
CL-14	05/17/21	TURF FIELD - Change South Synthetic Turf Field to Seeded Grass Field only with irrigation	(\$664,615)	PENDING			(\$664,615)	
CL-27b	06/08/21	SPORTSLIGHTING - Delete sports lighting at South Field	(\$445,311)	PENDING	3/24/22		(\$445,311)	
CL-38a	06/09/21	SCOREBOARDS, EXTERIOR - Eliminate 1 scoreboard; infrastructure to be provided	(\$52,357)	PENDING	3/24/22		(\$52,357)	
CL-38b	06/09/21	SCOREBOARDS, EXTERIOR - Eliminate 2 scoreboards; infrastructure to be provided	(\$104,714)					
CL-38c	06/09/21	SCOREBOARDS, EXTERIOR - Eliminate 3 scoreboards; infrastructure to be provided	(\$157,071)					
CL-41	01/19/22	SIDEWALKS - Change all concrete walks to asphalt; target 25%	(\$24,967)	PENDING			(\$24,967)	
CL-46	01/19/22	TRACK - Change running track color to black	(\$12,798)	PENDING			(\$12,798)	
CL-50a	01/19/22	EQUIPMENT - Eliminate batting cages from baseball field and softball field	(\$33,112)	PENDING			(\$33,112)	
CL-50b	03/24/22	EQUIPMENT - Utilize (1) shared batting cage for baseball and softball	(\$16,556)	PENDING			(\$16,556)	
CL-62	03/17/22	NORTH SOCCER FIELD - Reduce north Soccer Field width sufficient to eliminate the Retaining Wall	(\$251,314)	PENDING			(\$251,314)	
CL-71a	03/17/22	COURTS - Eliminate all pickleball courts and one tennis court	(\$128,374)	PENDING			(\$128,374)	
CL-71b	03/24/22	COURTS - Eliminate (1) pickleball court	(\$10,876)					
CL-72	03/22/22	TREES - Reduce caliper trees from 3" to 2" trees	Pending	PENDING			\$0	
CL-74	03/24/22	RETAINING WALLS - Replace site retaining walls with segmented precast concrete retaining walls.	No Savings	PENDING			\$0	
CL-75	03/24/22	ROCK REMOVAL - Reduce amount of rock removal required for NE Parking Area by eliminating parking spaces	(\$30,987)	PENDING			(\$30,987)	
CL-76	03/24/22	EMERGENCY ACCESS ROAD - Remove NW emergency access road and related infrastructure. Replace with walking path. Use Boxwood Road for secondary future emergency access to site.	Pending	PENDING			\$0	
EQUIPMENT								
EQ-01	03/17/22	THEATRICAL EQUIPMENT - Replace (50) 4-color fixed LED spotlights (ETC ColorSource Spot) and (20) 4-color fixed LED wash fixtures (ETC COLORSource PAR Deep Blue) with (15) ETC LoneStar moving spotlights and (8) Martin Mac Aura moving wash fixtures	(\$23,270)	PENDING			(\$23,270)	
EQ-04	03/28/22	BASKETBALL HOOPS - Eliminate (3) retractable basketball hoops from the gym	(\$22,688)	PENDING			(\$22,688)	
EQ-05	03/28/22	GYM DIVIDER CURTAINS - Remove North Divider Curtain in Gym; South Divider Curtain to remain in scope	(\$43,631)	PENDING			(\$43,631)	
EQ-06	03/28/22	AUDITORIUM CATWALKS - Eliminate west cross catwalk over Auditorium House **NOTE: eliminates the ability to light the stage extension (elevated platform over the Orchestra Pit)	Pending	PENDING			\$0	
EQ-06	03/28/22	PERFORMANCE ROOM CURTAINS - Eliminate; **NOTE: eliminates the ability for performers to circulate around the performance area without being seen by the audience	(\$34,905)	PENDING			(\$34,905)	
MULTI-DISCIPLINARY								

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MD-03	05/17/21	BATTING CAGE - Eliminate interior retractable Batting Cage	(\$20,361)	PENDING			(\$20,361)	
MD-23a	03/28/22	PROGRAMMING - Provide "shell" at Pre-K space for future fit-out	(\$1,709,923)	PENDING			(\$1,709,923)	
MD-23b	03/28/22	PROGRAMMING - Eliminate Pre-K programs entirely; NOTE: Major Redesign	Pending	PENDING			\$0	
MD-24a	03/28/22	PROGRAMMING - Provide "shell" at District Office space for future fit-out	(\$201,249)	PENDING			(\$201,249)	
MD-25	03/28/22	PROGRAMMING - Provide "shell" at Stadium Building for future fit-out	Pending	PENDING			\$0	
REJECTED								
ENVELOPE								
EN-40	03/17/22	CMU - Eliminate corbelled CMU type EXT-3 and replace with straight CMU.	(\$10,122)	REJECTED	3/24/22			(\$10,122)
EN-49	03/22/22	NORTH MECH WELL - Extend North Mech well to over the BioMedical Room	(\$2,377)	REJECTED	3/28/22			(\$2,377)
INTERIORS								
IN-68	06/08/21	CULINARY (VOC) EQUIPMENT - Reduce equipment scope/budget; 7 to 5 cooking stations Note: program for 7 required	(\$5,352)	REJECTED				(\$5,352)
IN-130b	03/24/22	FIREPROOFING - Remove intumescent fireproofing from EXP-2 from gymnasium, replace with spray fireproofing.	(\$149,052)	REJECTED	3/28/22			(\$149,052)
SERVICES								
D-01	06/08/21	HVAC - Utilize dual temp water loop to supply fan coil units in lieu of both HW & SCHW loops **MAJOR REDESIGN	Not Viable	REJECTED	3/24/22			\$0
D-11	06/08/21	ELECTRICAL - Reduce CCTV Surveillance camera counts by 20%	(\$40,722)	REJECTED	3/24/22			(\$40,722)
D-12	06/08/21	ELECTRICAL - Reduce Access control device counts by 20%	(\$40,722)	REJECTED	3/24/22			(\$40,722)
D-22	06/08/21	LIGHTNING PROTECTION - Eliminate	(\$102,809)	REJECTED	3/24/22			(\$102,809)
D-39	06/09/21	CLASSROOM AUDIO - Remove all: connections to classroom display, wireless mics, and an input for assistive listening transmitters; target savings \$120k direct cost	(\$139,619)	REJECTED	3/28/22			(\$139,619)
D-41	03/17/22	GYM FANS - Eliminate destratification fans in Gymnasium **NOTE: IMPACT TO OCCUPANCY COMFORT	(\$15,074)	REJECTED	3/24/22			(\$15,074)
D-50	03/18/22	ELECTRICAL GENERATOR - Reduce size of generator to 500kW (no warming/cooling center)	(\$174,523)	REJECTED	3/24/22			(\$174,523)
D-53	03/18/22	ELECTRICAL PV DISTRIBUTION - Eliminate interior conduits to future PV locations at roof; assume by PV vendor	(\$33,741)	REJECTED	3/24/22			(\$33,741)
D-54	03/18/22	AUDIO VISUAL - Reduce Audio Visual scope from Construction Budget; defer to IT/AV budget; target \$250k	(\$290,872)	REJECTED	3/28/22			(\$290,872)
D-61	03/22/22	FIRE PROTECTION - Remove Fire Protection entirely from Stadium Building	(\$102,193)	REJECTED	3/28/22			(\$102,193)
D-62	03/22/22	FIRE PROTECTION - Remove Standpipes in Main Building **NOTE: will need approval by the AHJ	(\$97,659)	REJECTED	3/28/22			(\$97,659)
CIVIL/LANDSCAPING								
CL-01	05/17/21	ENTRY CURB - Change Vertical Granite to precast concrete along the Entry Drive, radius to remain Vertical Granite	(\$31,476)	REJECTED	3/24/22			(\$31,476)
CL-02	05/17/21	EAST CURB - Change Vertical Granite to Cape Cod Berm in the East Parking Lot, radius to remain Vertical Granite	(\$52,094)	REJECTED	3/24/22			(\$52,094)
CL-03	05/17/21	WEST CURB - Change Vertical Granite to Cape Cod Berm in the West Parking Lot, radius to remain Vertical Granite	(\$58,465)	REJECTED	3/24/22			(\$58,465)
CL-42	01/19/22	NORTHWEST ACCESS - Replace asphalt roadway from West parking lot to Benjamin Terrace with stone dust or other suitable materials.	(\$8,351)	REJECTED	3/24/22			(\$8,351)

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CL-43	01/19/22	SIDEWALKS - Replace all asphalt sidewalks with stone dust or other suitable materials.	(\$44,604)	REJECTED	3/24/22			(\$44,604)
CL-47	01/19/22	BLEACHERS - Eliminate bleachers from soccer fields	(\$99,782)	REJECTED	3/24/22			(\$99,782)
CL-48	01/19/22	BLEACHERS - Eliminate bleachers from baseball field	(\$27,865)	REJECTED	3/24/22			(\$27,865)
CL-49	01/19/22	BLEACHERS - Eliminate bleachers from softball field	(\$16,630)	REJECTED	3/24/22			(\$16,630)
CL-54	01/19/22	BLEACHERS/STADIUM - Reduce concessions building program and corresponding bleacher count	Pending	REJECTED	3/24/22			\$0
CL-54b	03/23/22	BLEACHERS/STADIUM - Eliminate Press Box Entirely	Pending		3/24/22			
CL-54c	03/23/22	BLEACHERS/STADIUM - Eliminate Concessions Building entirely	Pending		3/24/22			
CL-59	01/19/22	PLAYGROUND - Replace rubber safety surface in Pre-K Playground with engineered wood fiber. (Combination of accessible path and wood fiber)	(\$196,088)	REJECTED	3/28/22			(\$196,088)
CL-60	03/17/22	SITE MEDIAN - Change Raised Concrete Median with granite curbing to Asphalt Median with precast curbing at Entrance Drive.	(\$14,041)	REJECTED	3/24/22			(\$14,041)
CL-67	03/17/22	PLANTING BED - Eliminate Mounded Planting Bed at Front Entry Plaza, grade level	(\$8,936)	REJECTED	3/24/22			(\$8,936)
CL-68	03/17/22	PLANTING BED - Eliminate Mounded Planting Bed at Spartan Place, grade level	(\$628)	REJECTED	3/24/22			(\$628)
CL-69	03/17/22	PLANTING BED - Eliminate Mounded Planting Bed at East Parking Lot, grade level	(\$3,072)	REJECTED	3/24/22			(\$3,072)
MULTI-DISCIPLINARY								
MD-10	06/08/21	PROGRAMMING - Eliminate Track in Gym: note: Major Redesign	(\$398,423)	REJECTED	3/28/22			(\$398,423)
ALTERNATES								
ENVELOPE								
INTERIORS								
SERVICES								
CIVIL/LANDSCAPING								
EQUIPMENT								
MULTI-DISCIPLINARY								
VALUE MANAGEMENT SUBTOTALS						(\$12,077,151)	(\$6,001,805)	(\$2,165,292)
		Reconciled Design Development Estimate Starting Value:	\$165,431,605					
TOTAL CONSTRUCTION COST W/ AD-HOC RECOMMENDED ITEMS						\$153,354,454		

STONEHAM HIGH SCHOOL

Building Committee Meeting



3.28.2022

AGENDA

1\ Budget & Market Analysis

2\ Value Engineering Ideas

3\ Reference Graphics



Budget & Market Analysis

Building Committee Meeting

Design Development Estimating Schedule

March 18 – Estimates due from PM&C and Consigli

March 22 – Estimate Reconciliation Meeting

March 24 – Revised Estimates Due

March 28 – Present Cost Estimates and Value Engineering List to SSBC

April 4 – SSBC Votes to Approve Design Development Submission

April 8 – Submit Design Development to MSBA

April 11 – Receive MSBA Comments on Design Development Submission

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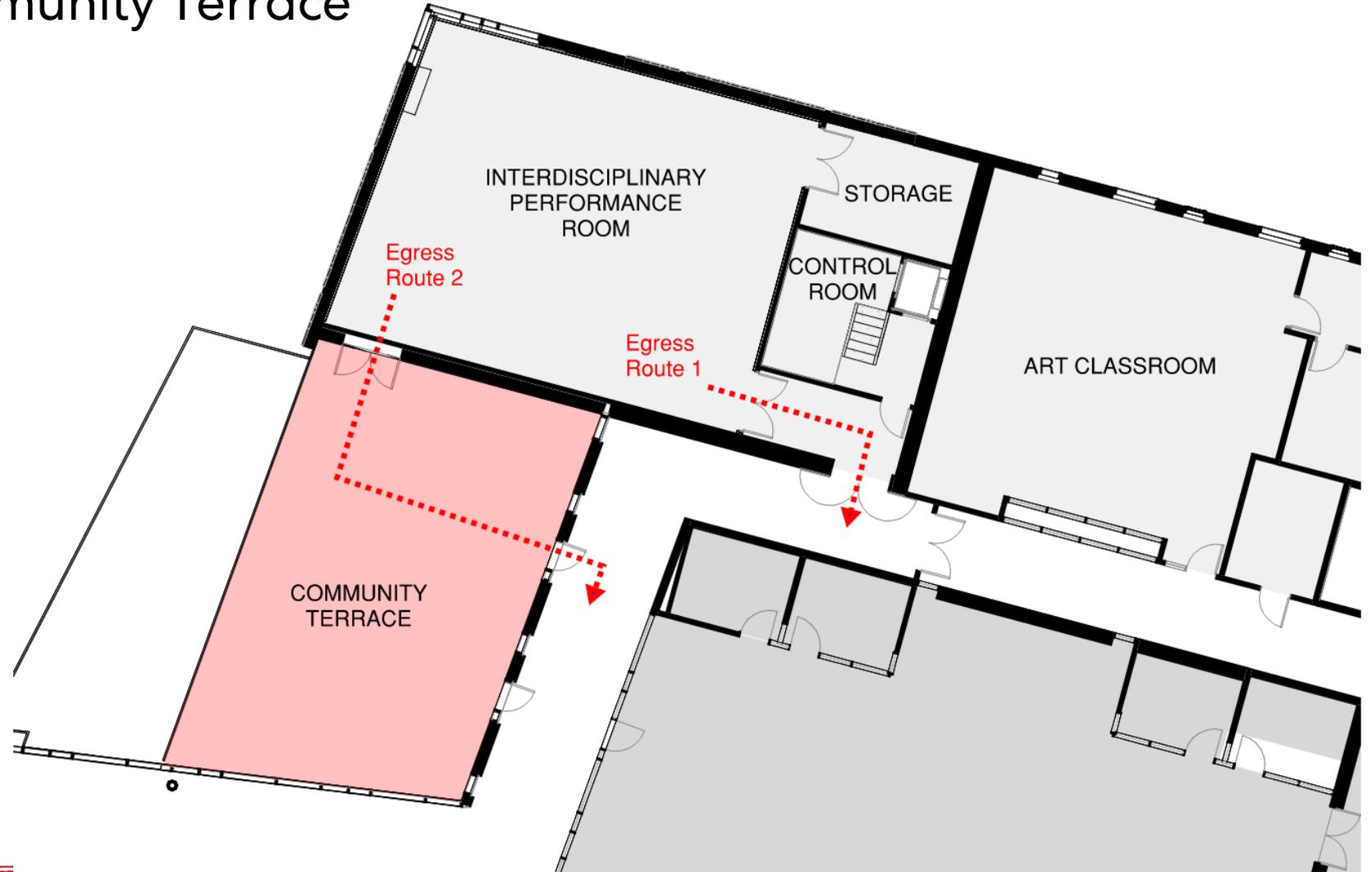
Value Engineering Items Envelope

Building Committee Meeting

Value Engineering Items

EN-14 – Eliminate Community Terrace Current Plan

Currently the Performance Room's second means of egress is through the Community Terrace. Eliminating the Community Terrace would require creating a different second means of egress.



Value Engineering Items

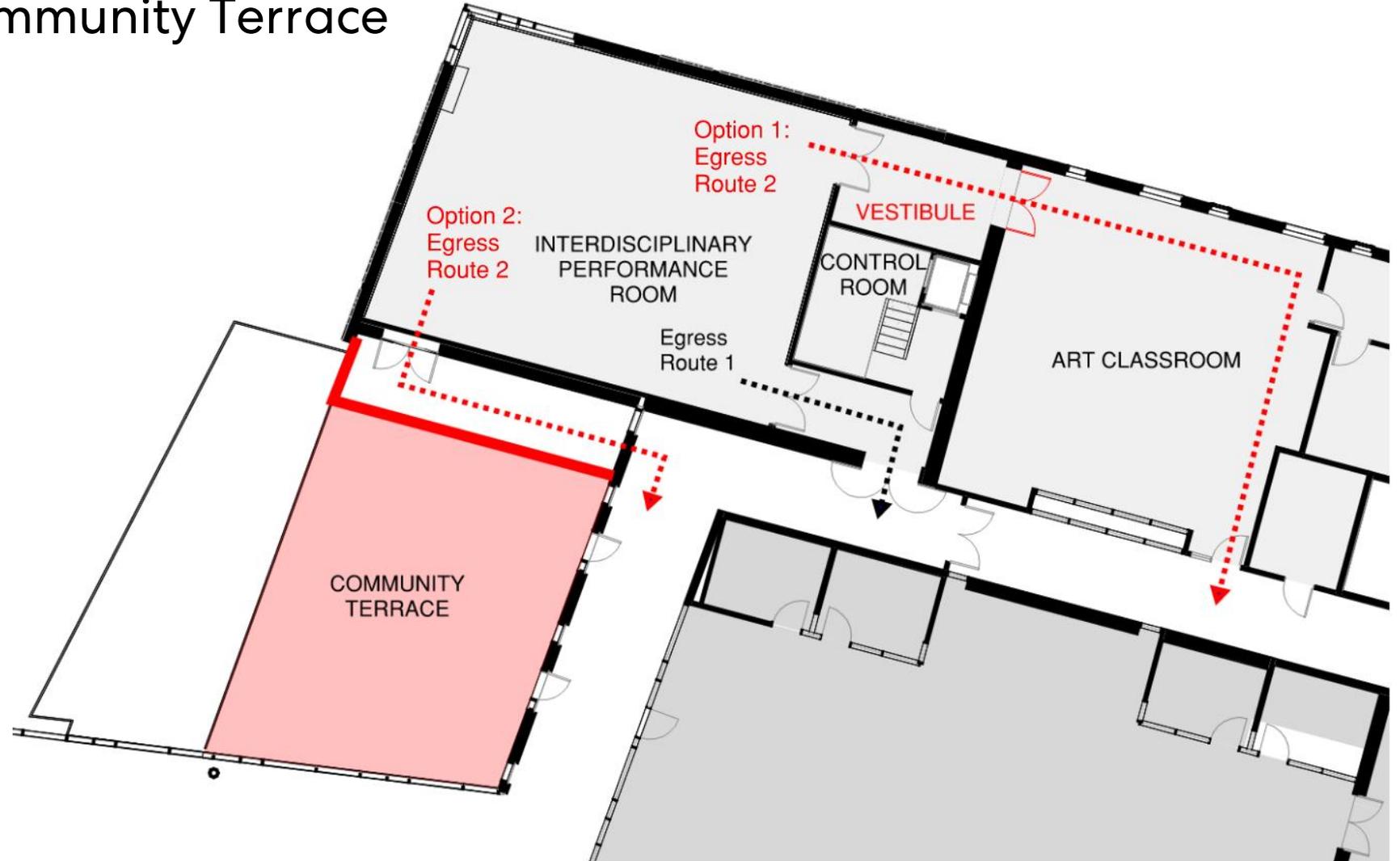
EN-14 – Eliminate Community Terrace

OPTION 1: Change the use of the storage room to a Vestibule so that it can be used as a second egress route through the Art Classroom. Note that this would reduce the amount of casework storage in the Art Classroom.

VE Amount: \$95,427

OPTION 2: Enclose a portion of the Community Terrace to create an interior egress route.

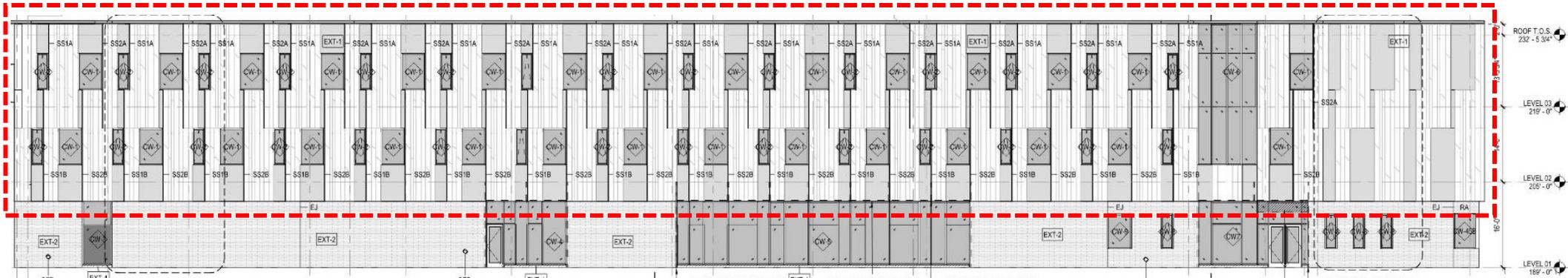
VE Amount: \$XXX,XXX



Value Engineering Items

EN-34 – Replace Exterior Porcelain Panels with Glazed CMU

VE Amount: **\$1,774,715**



EAST CLASSROOM ELEVATION

Replace all porcelain panels with glazed CMU bricks, while maintaining the depth changes between panels. Support off lintels. This change will cause significant redesign for architecture and structure nuances.



Value Engineering Items

EN-37a – Replace All Triple Glazing with Double Glazing

VE Amount: \$579,941

Changing the glazing from triple glazed to double glaze will impact the energy model. There will be an increase to the EUI, Annual Carbon Use, PV Area and Cost.

	EUI (kBtu/sf-yr)	Annual Cost Increase (\$)	Annual Carbon Increase (Ton)	PV Area Increase(%)
		(\$0.049/ kWh)		(Based on 1620MWh/yr)
Base: 100% Triple Pane	25.7	-	-	-
Option 1: 100% Double Pane	26.4 (+0.7)	\$1,989	11.8	2.5%
Option 2: Double Pane For Punched Windows Only, Triple Pane for all Full Height Glazing	25.8 (+0.1)	\$347	2.1	0.4%

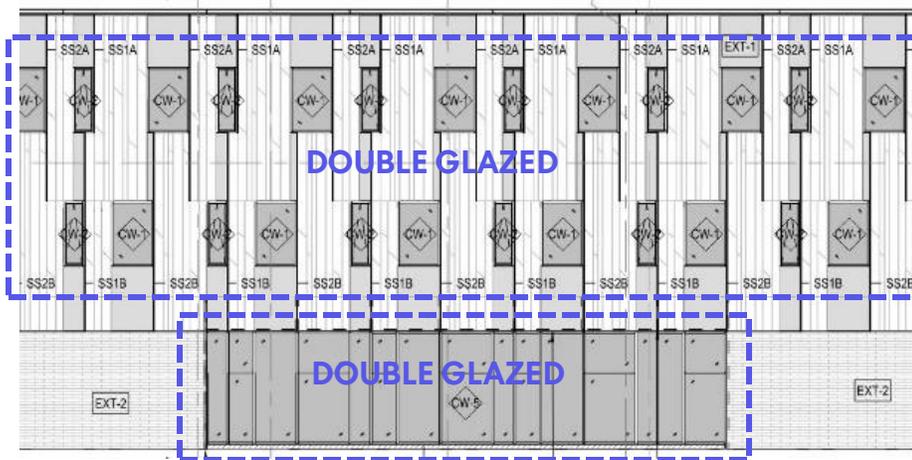
Value Engineering Items

EN-37a

VE Amount: \$579,941

Option 1: Change All Exterior Glazing to Double Glazing

EUI Increase: 0.7

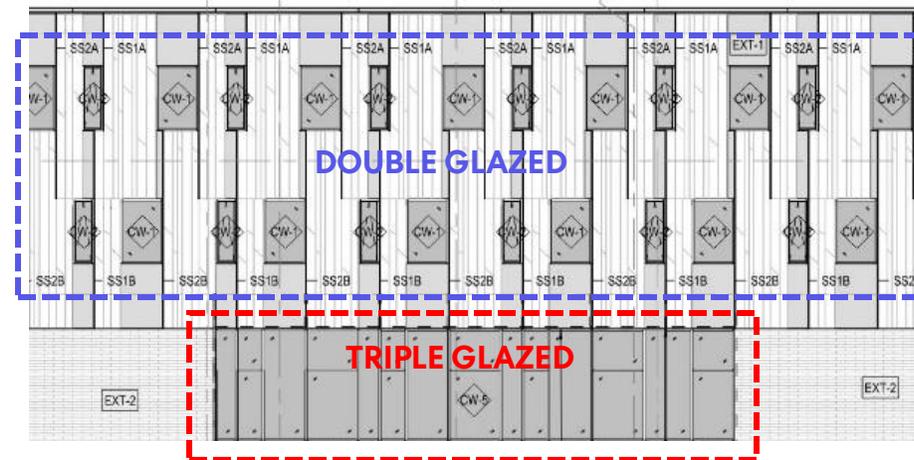


EN-37b

VE Amount: \$231,977

Option 2: Keep Triple Glazing at Full Height Glazing Only (60% of all Exterior Glazing)

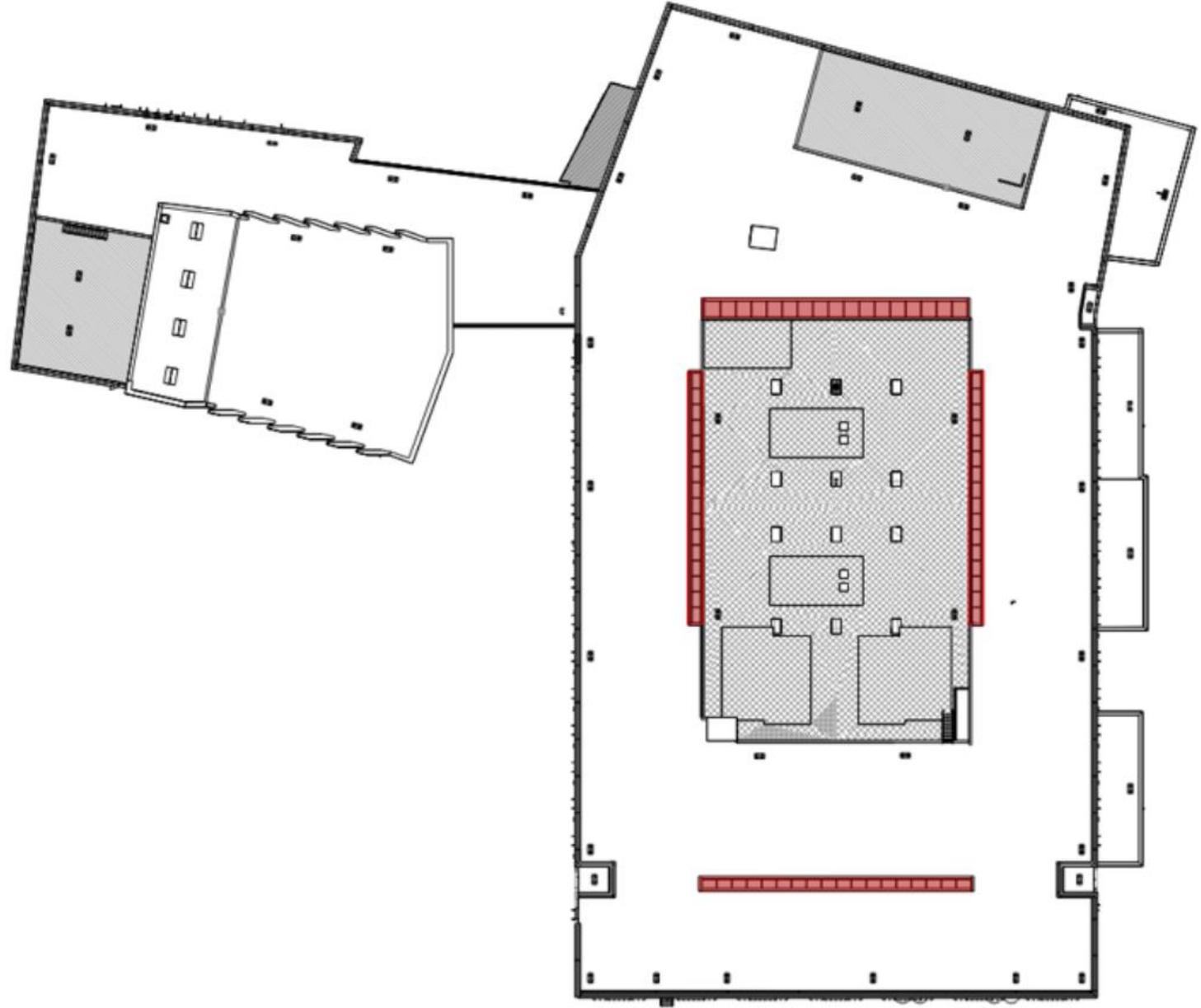
EUI Increase: 0.1



Value Engineering Items

EN-38/39 – Reduce square footage of linear Skylights on North, East and West of Gym and South by Maker Space

VE TARGET Amount: \$125,000



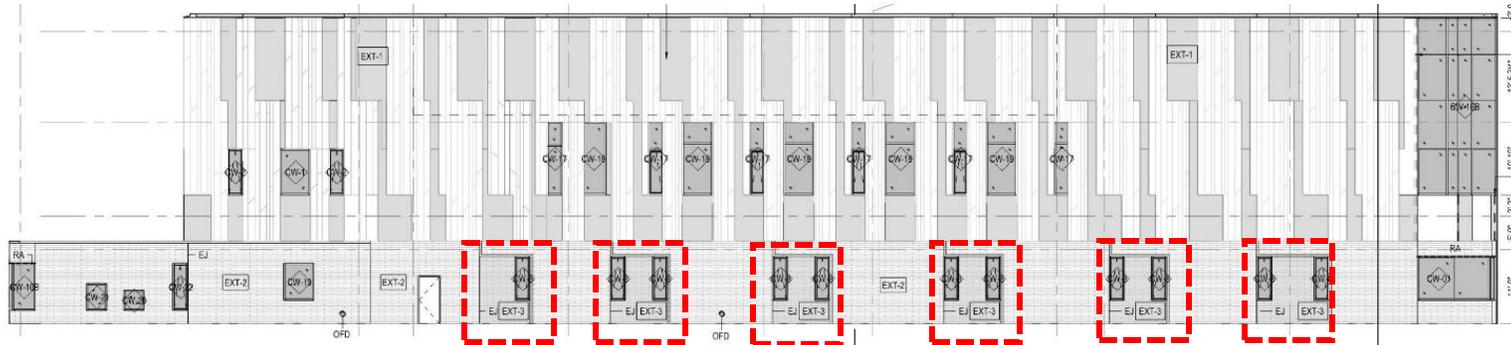
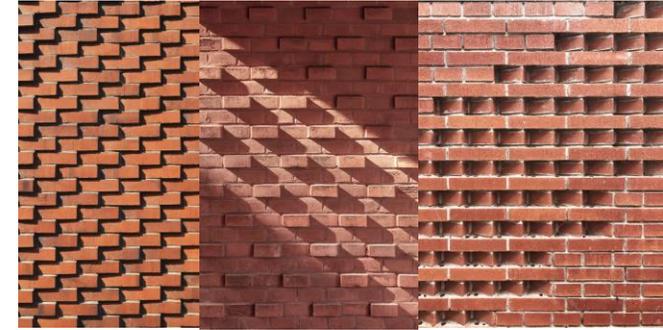
Value Engineering Items

EN-40 – Replace corbelled CMU with straight CMU

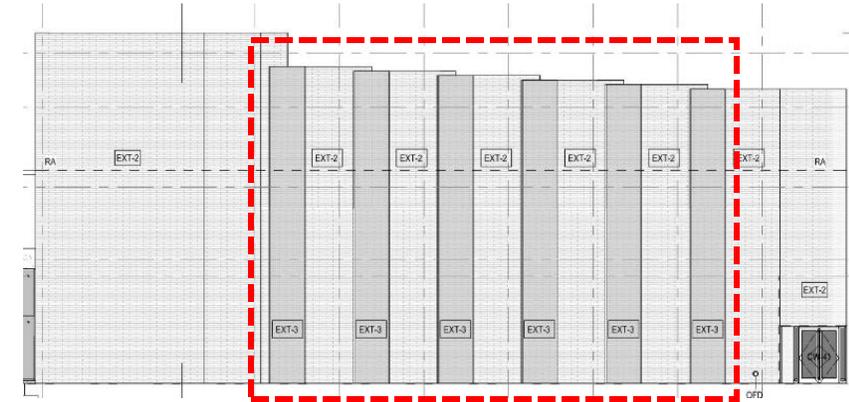
VE Amount: \$10,122



SOUTH FACADE



NORTH FACADE



AUDITORIUM SOUTH FACADE

Value Engineering Items

EN-41a – Increase size of CMU from 4”x4”x24” to 4”x8”x24”

VE Amount: \$77,419

EN-41b – Increase size of CMU from 4”x4”x24” to 4”x8”x24” at South and East façades only

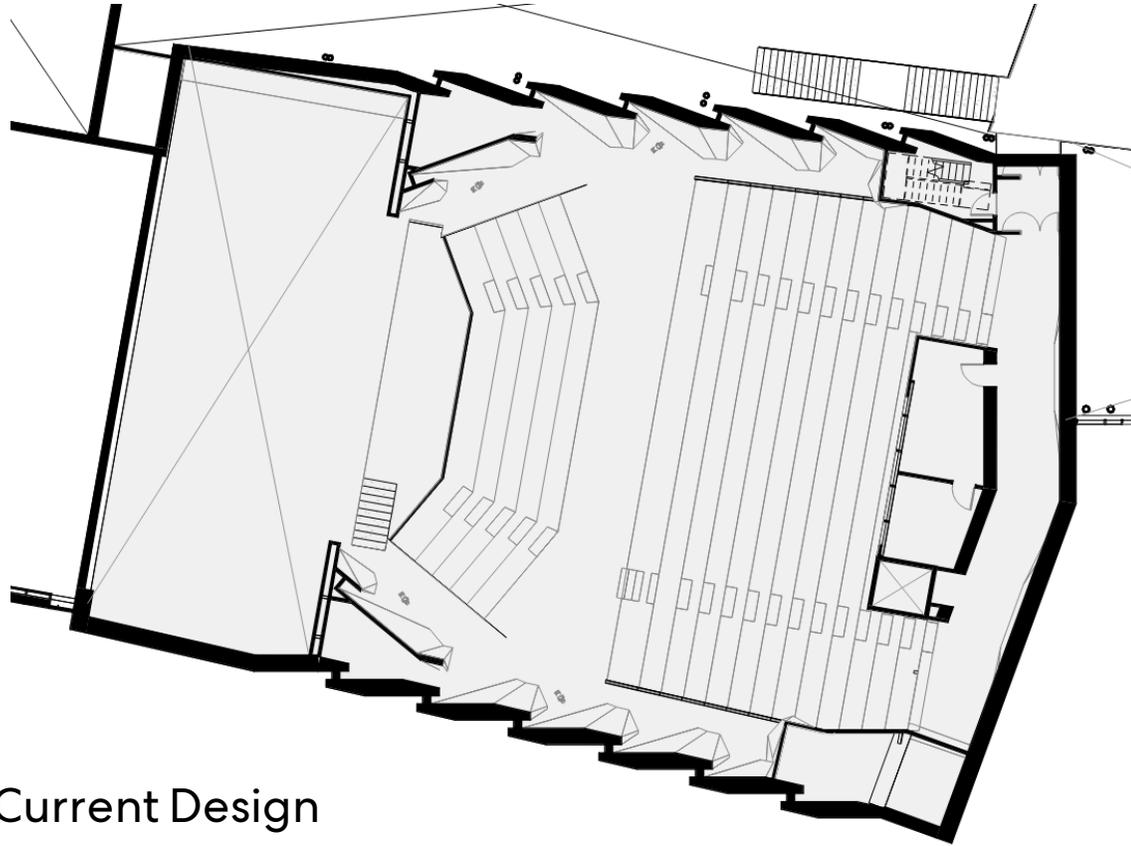
VE Amount: \$XX,XXX

Note: Increasing the CMU sizing in the project is not recommended, because larger CMU more fragile and is prone to breakage.

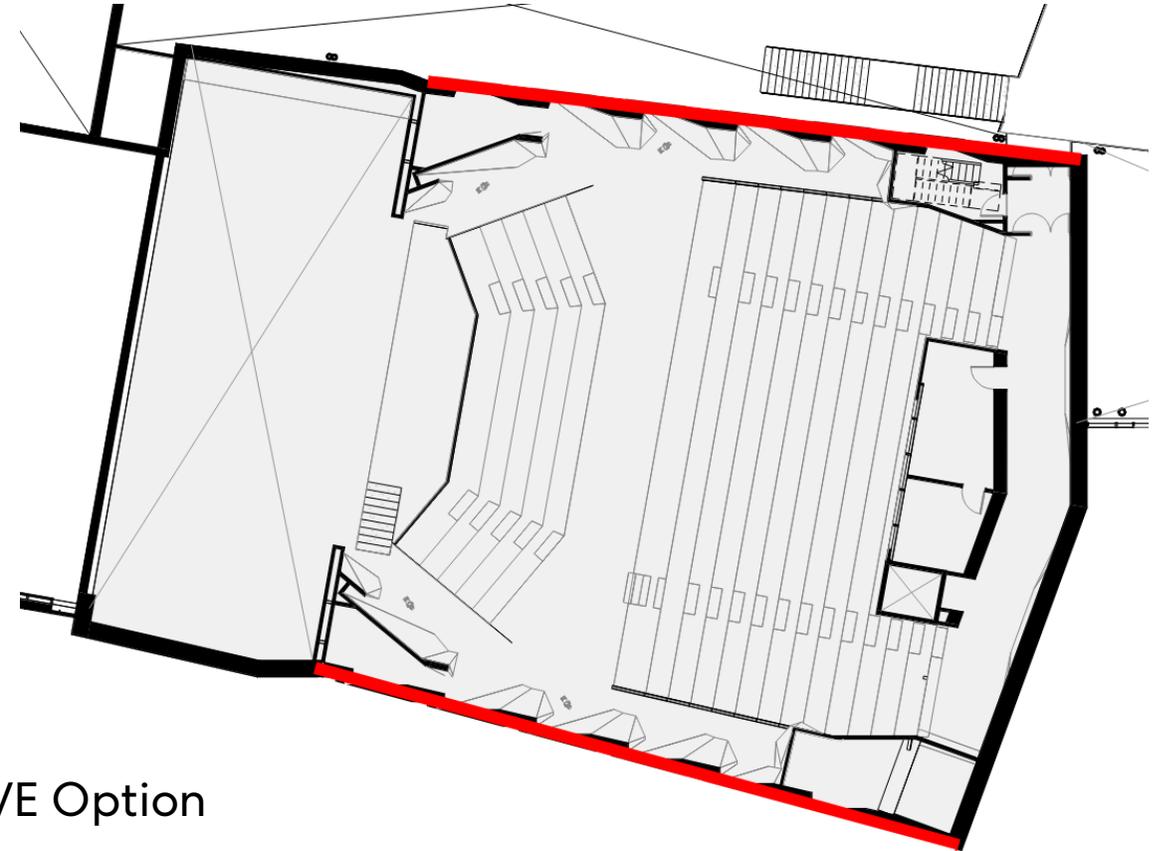
Value Engineering Items

EN-42 – Eliminate masonry jogging at auditorium north & south walls

VE Amount: \$40,780



Current Design



VE Option

Note: This will make the Auditorium appear larger from the exterior.

Value Engineering Items

EN-43 – Change all punched window from Curtainwall to standard punched window construction

VE Amount: \$107,716



EAST CLASSROOM ELEVATION

Value Engineering Items

EN-45 – Reduce exterior curtainwall glazing across entire building

VE TARGET Amount: \$115,000

EAST CLASSROOM ELEVATION

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Value Engineering Items

EN-46 – Change metal panel finish to direct applied finish at all exterior soffits

VE Amount: \$378,285



METAL PANEL

Not recommended.

Perkins&Will has concerns with using EIFS in a cold weather climate with respect to the material's durability.

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Value Engineering Items

EN-47 – Eliminate depths in porcelain tile

VE Amount: \$375,516

Note: This item cannot be taken with EN-34 (switching porcelain to CMU).



ELIMINATE DEPTH CHANGES



Perkins&Will

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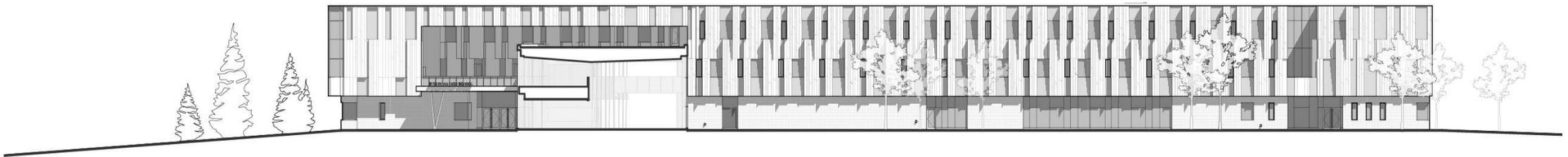
Value Engineering Items

EN-48a – Remove exterior vertical classroom fins

VE Amount: \$322,578



← **ELIMINATE
VERTICAL FINS**



Perkins&Will

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Value Engineering Items

EN-48b – Remove exterior horizontal classroom sunshades

VE Amount: **\$32,723**

ELIMINATE HORIZONTAL SUNSHADES



SOUTH FACADE

Value Engineering Items

EN-49 – North Mechanical Well – Extend to over the Biomedical room

VE Amount: \$2,377

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Value Engineering Items

EN-50 – Reduce Exterior Insulation between studs from 4” to 1” and achieve an overall R-26.6 for exterior walls

VE Amount: \$206,659

EUI Increase: 0.1

	EUI (kBtu/sf-yr)	Annual Cost Increase (\$)	Annual Carbon Increase (Ton)	PV Area Increase(%)
		(\$0.049/ kWh)		(Based on 1620MWh/yr)
BASE:	25.7	-	-	-
EN-50: INSULATION REDUCTION	25.8	\$228	1.4	0.3%

Value Engineering Items Interiors

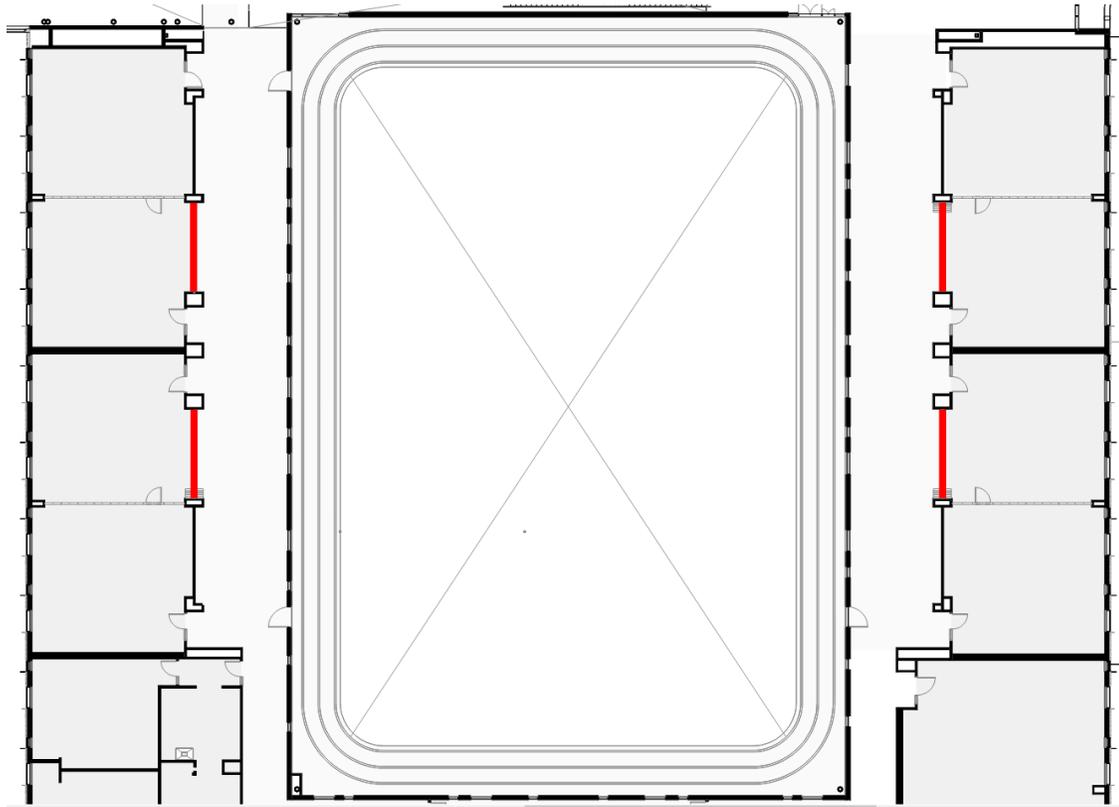
Building Committee Meeting

Value Engineering Items

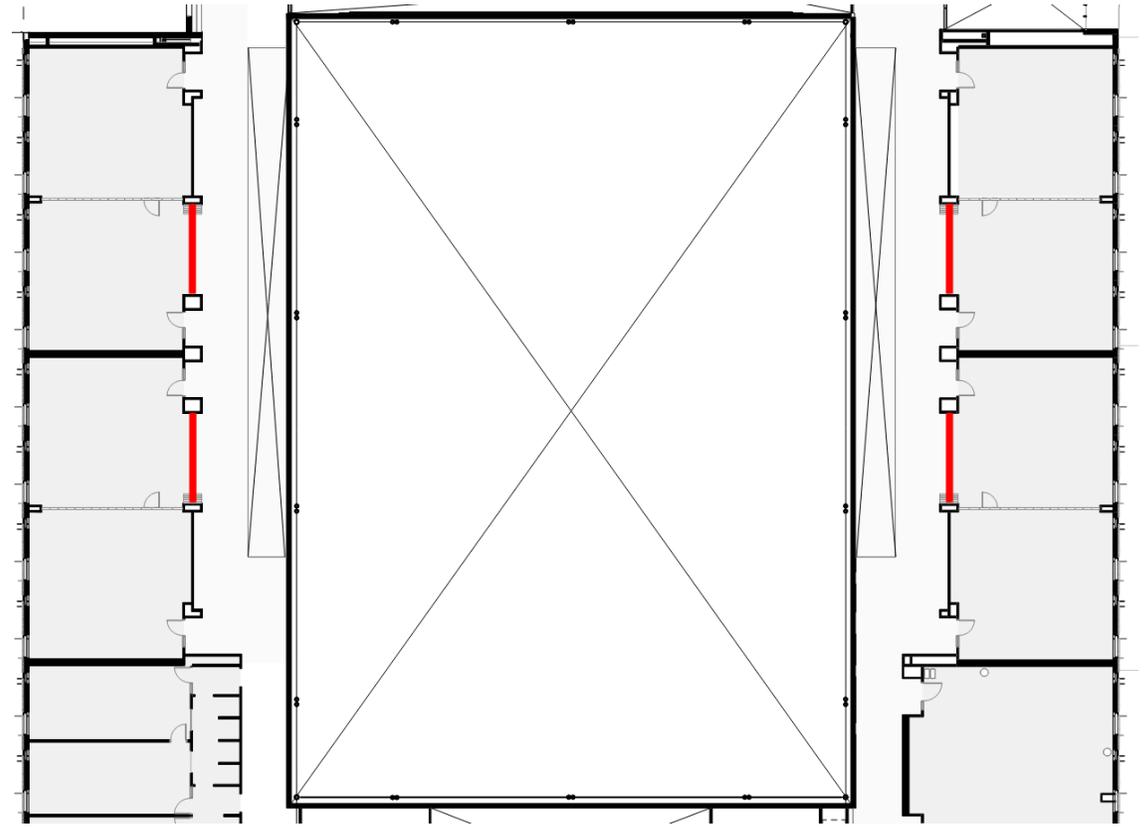
IN-19 – Eliminate Operable Partitions between Classrooms & Corridors

VE Amount: \$155,403

Level 2



Level 3

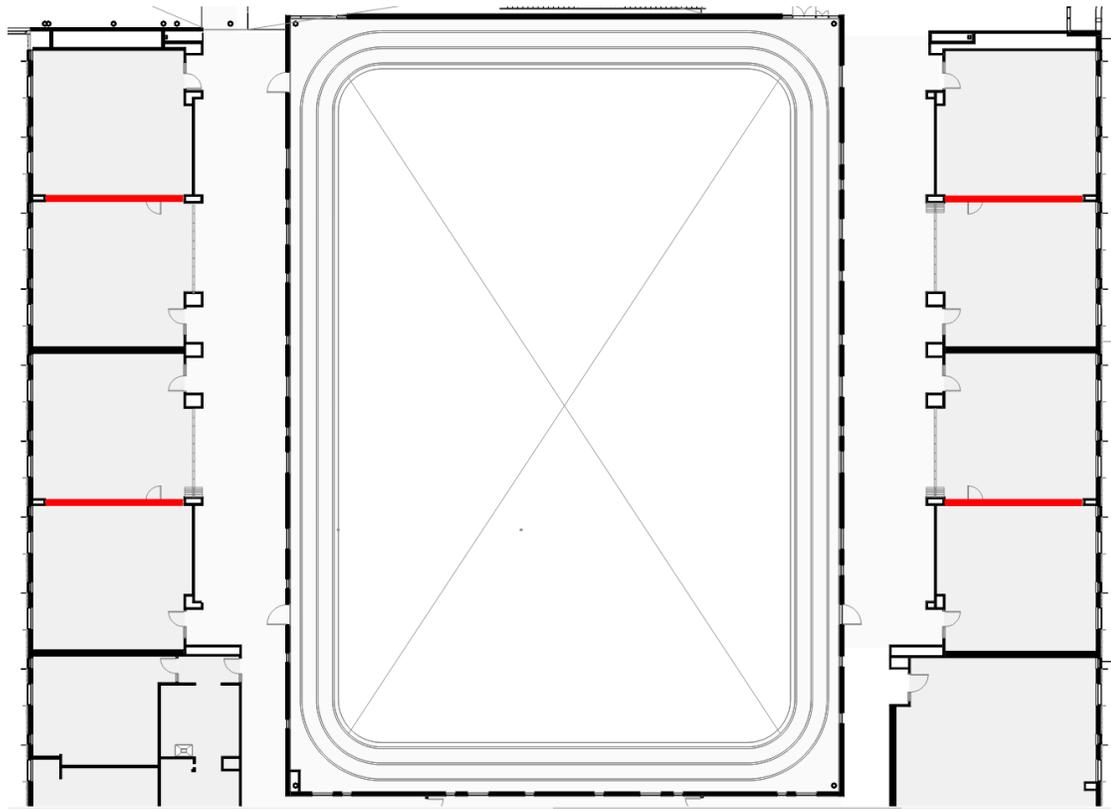


Value Engineering Items

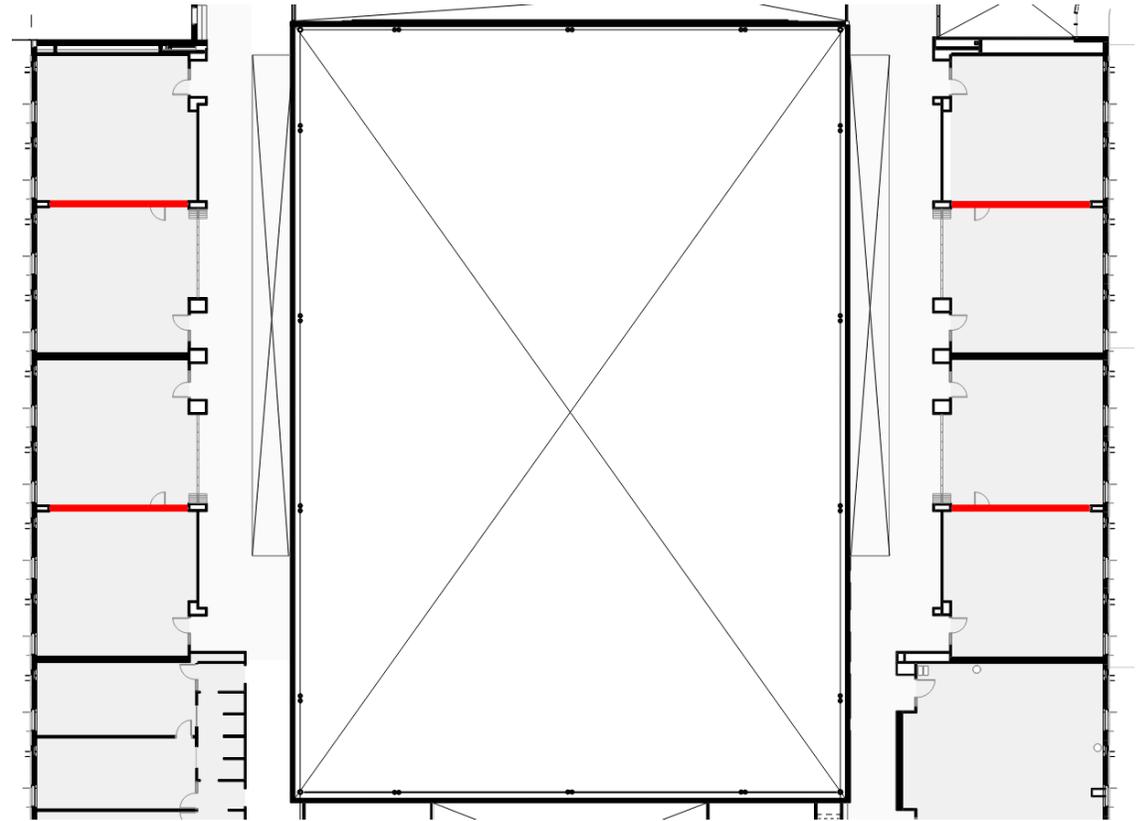
IN-22 – Eliminate Operable Partitions between General Classrooms

VE Amount: \$270,623

Level 2



Level 3



Value Engineering Items

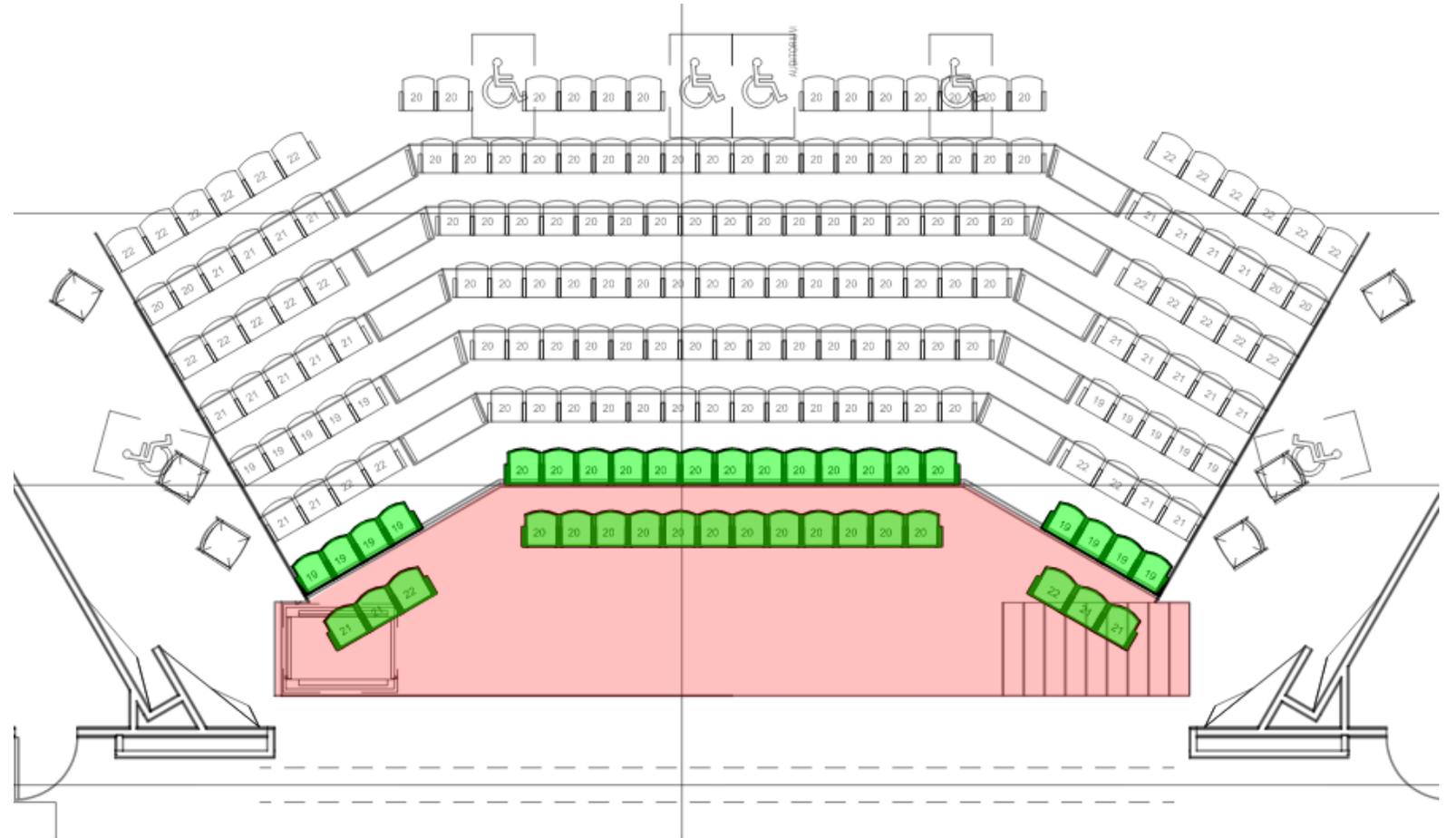
IN-45 – Eliminate Aud. Orchestra Pit; Replace with 39 Additional Fixed Seats

VE Amount: \$92,428

Current amount of Seats
w/ Orch Pit in use: **564**

Current amount of Seats
w/ Orch Pit covered: **598**

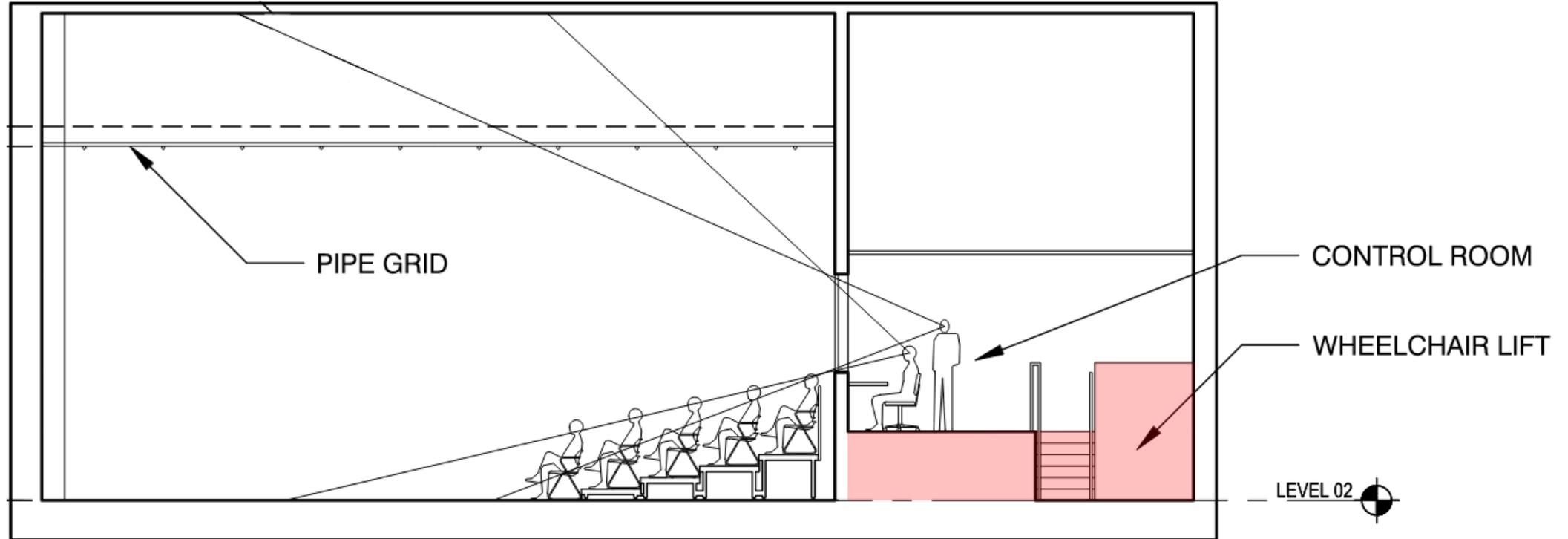
Amount of Seats w/
NO Orch Pit: **603**



Value Engineering Items

IN-59 – Eliminate raised floor & lift in Black Box Control Room

VE Amount: \$46,819



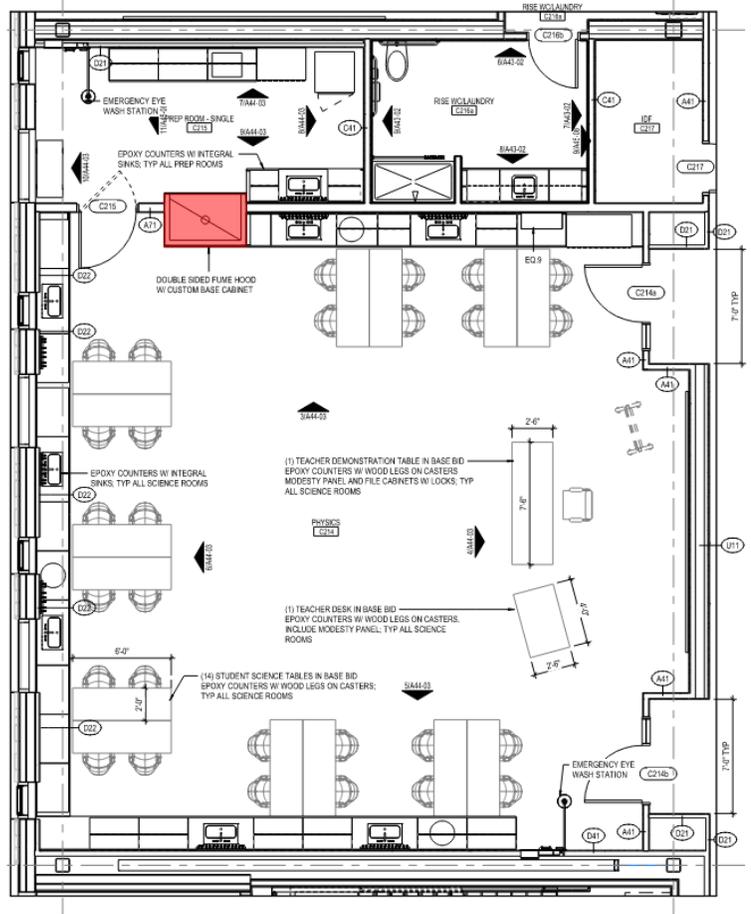
Note: This would eliminate sightlines from the control room over the audience to the performance space when raised seating is set up in front of the control room.

Value Engineering Items

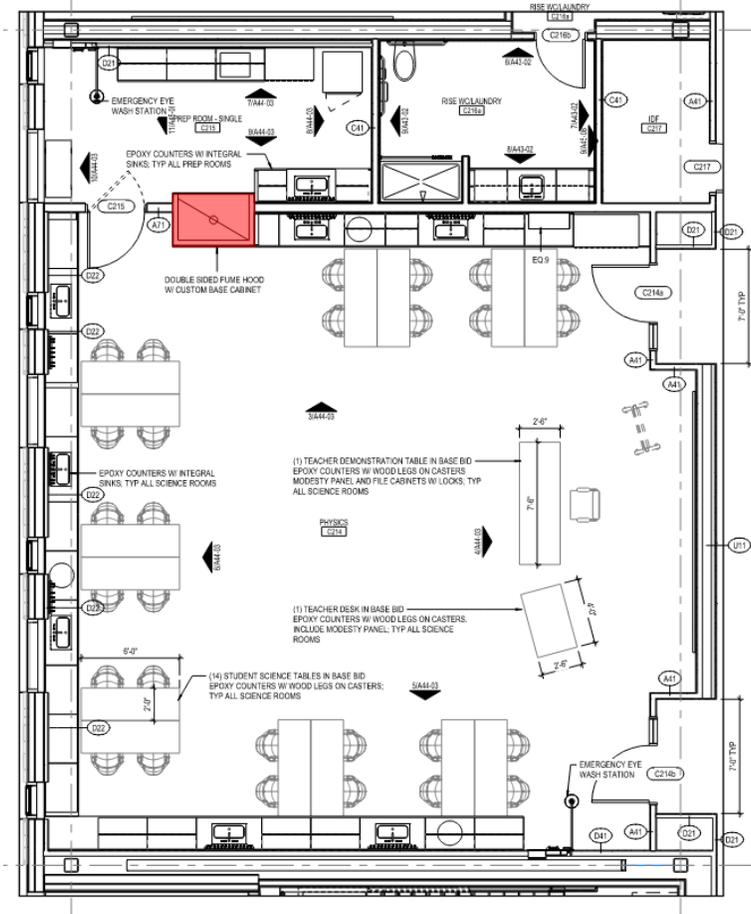
IN-60 – Eliminate (2) fume hoods from Physics Classrooms

VE Amount: \$34,905

Physics Classroom
Lev 2



Physics Classroom
Lev 3

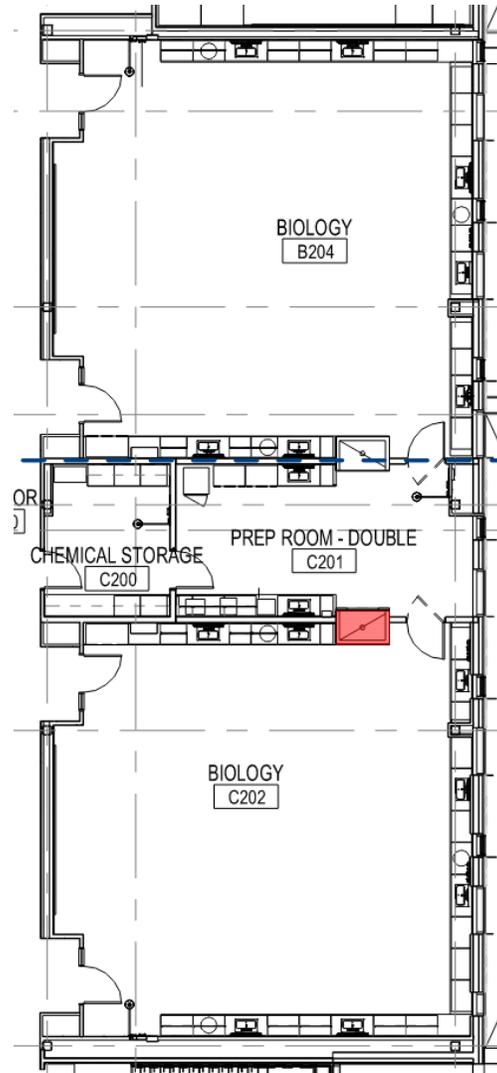


Value Engineering Items

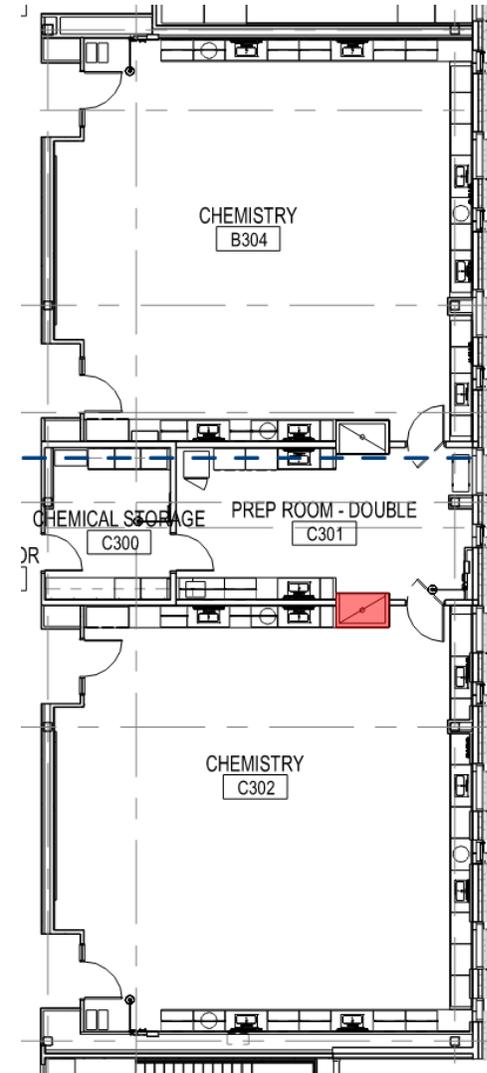
IN-61 – Eliminate (2) fume hoods: 1 from Chemistry & 1 from Biology Classrooms

VE Amount: \$34,905

Biology
Classrooms
Lev 2



Chemistry
Classrooms
Lev 3



Note: Savings is reduced if
IN-60/61 is accepted.

Value Engineering Items

IN-60/61a – Change all fume hoods from ducted to recirculating type

VE Amount: \$132,252

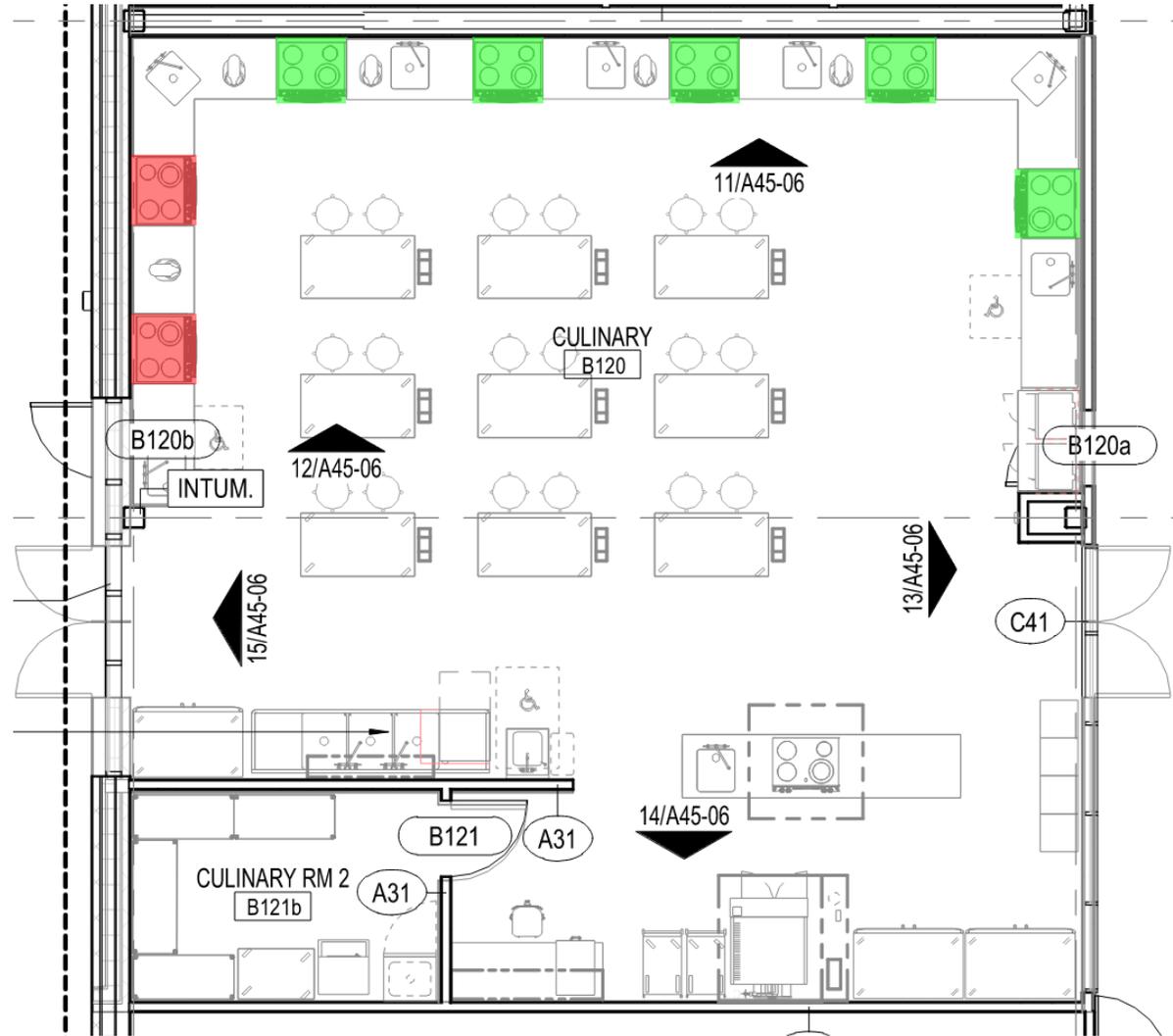
Note: This would eliminate lab type roof exhaust fans (1 per fume hood) and the associated stainless steel ductwork. Rooms with fume hoods would still be exhausted at a high air exchange rate, but energy from the air could be recovered at Air Handling Units. Accepting this VE item would slightly increase the Building Energy Use Intensity (EUI).



Value Engineering Items

IN-68 – Reduce student cooking stations from 7 to 5

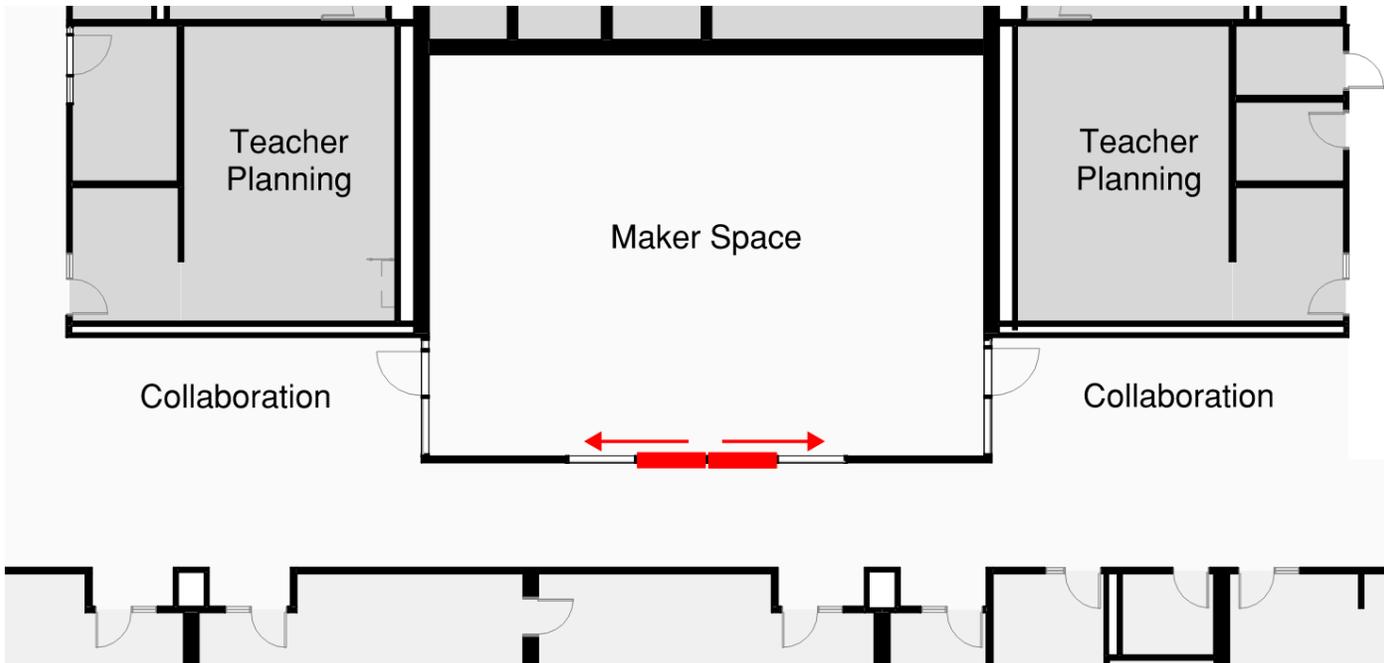
VE Amount: \$5,352



Value Engineering Items

IN-85 – Remove Maker Space sliding acoustic glass doors; Replace with standard Hollow Metal acoustic glass doors

VE Amount: \$48,309



Value Engineering Items

IN-89a – Change Spartan Place Porcelain Floor Tile to Polished Concrete

VE Amount: \$286,390

IN-90

Change Science Rooms' Polished Concrete Floor to Resilient Tile

VE Amount: \$28,615

IN-91

Option 1: Change Art Rooms' Polished Concrete Floor to Resilient Tile

VE Amount: \$7,332

Option 2: Change Art Rooms' Polished Concrete Floor to Sealed Concrete

VE Amount: \$18,194

Value Engineering Items

IN-92

Option 1: Change Maker Space Polished Concrete Floor to Resilient Tile

VE Amount: \$4,573

Option 2: Change Maker Space Polished Concrete Floor to Sealed Concrete

VE Amount: \$11,348

IN-94 – Reduce Porcelain Wall Tile in **High School** Corridors by 25%

VE Amount: \$148,431

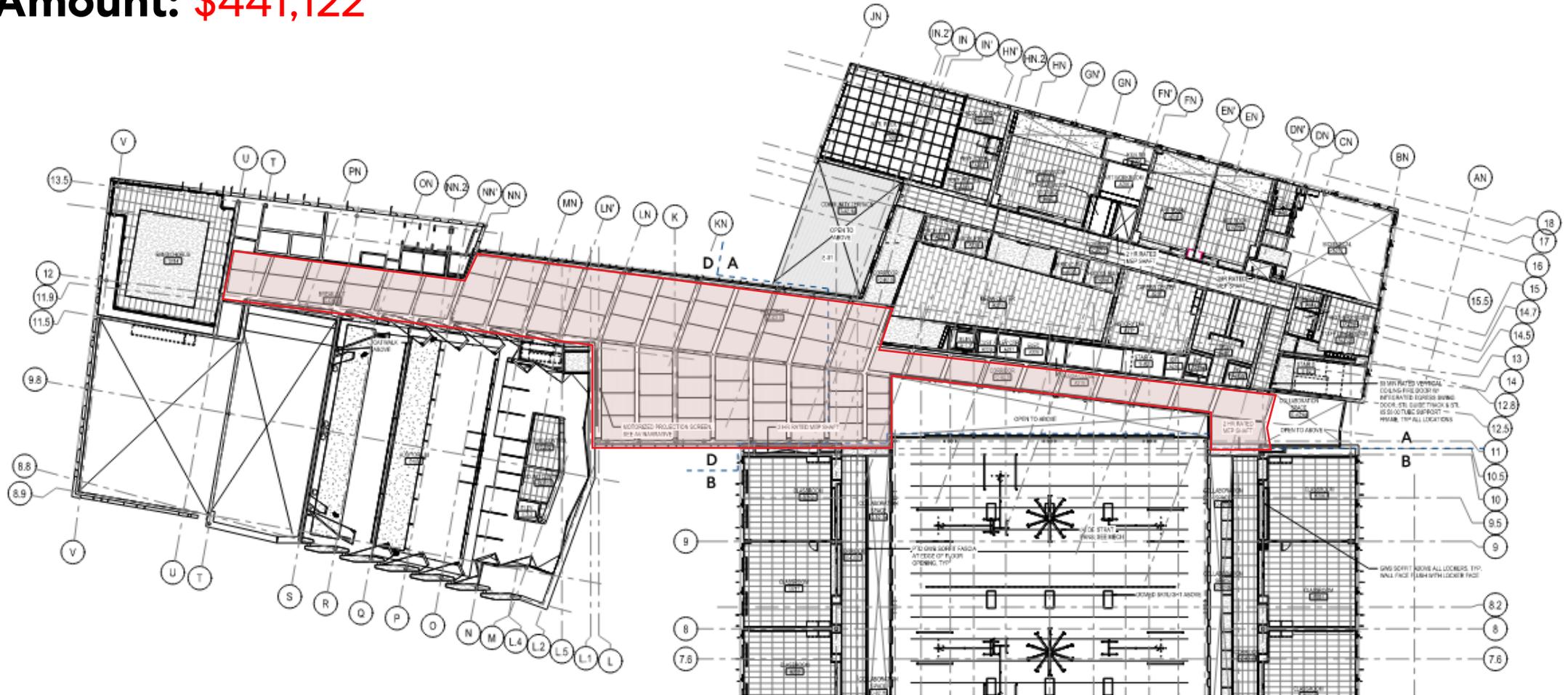
IN-95 – Reduce Porcelain Wall Tile in **Preschool** Corridors by 50%

VE Amount: \$46,717

Value Engineering Items

IN-96 – Spartan Place Ceiling: Change wood slat ceiling to standard ACT-4

VE Amount: \$441,122



Value Engineering Items

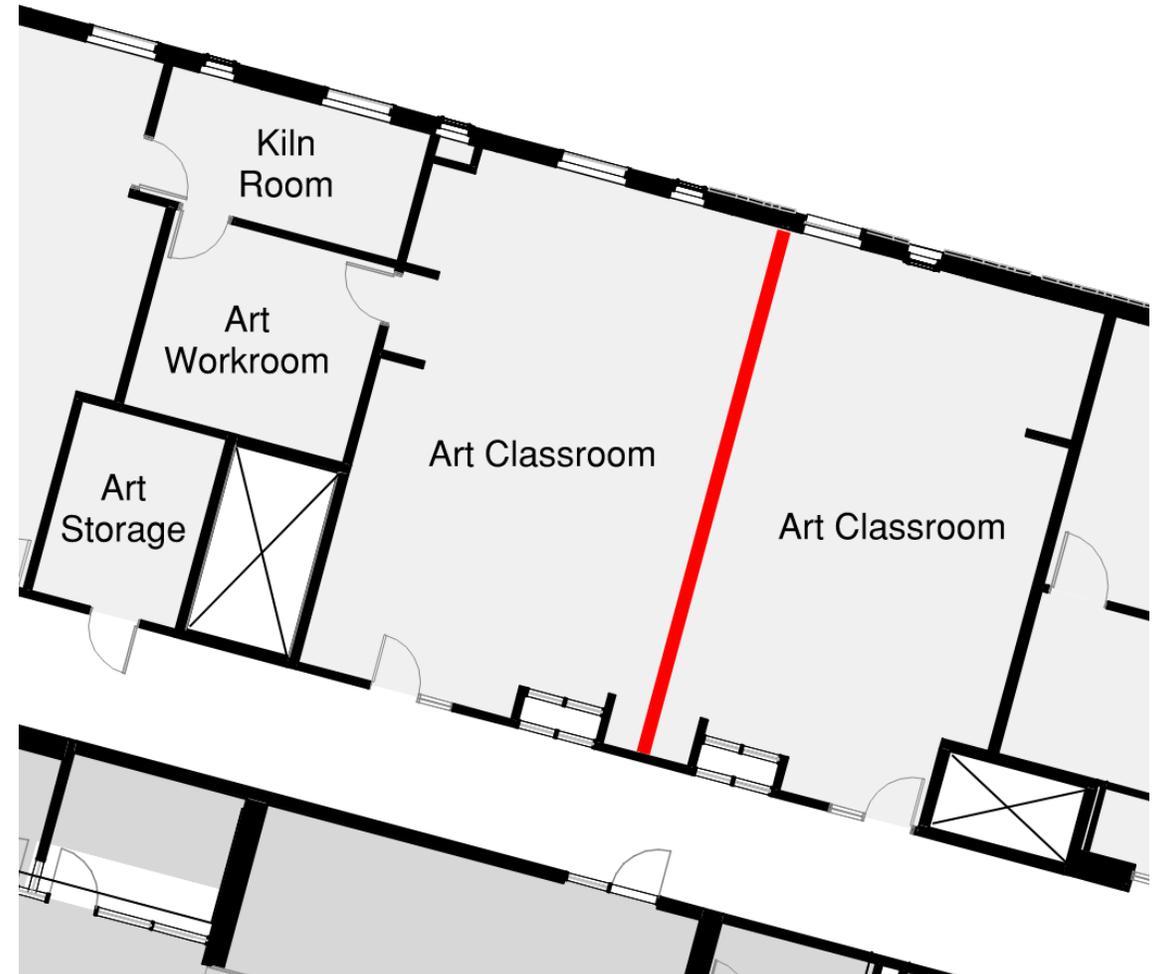
IN-97 – Eliminate Operable Partition at Art Room

Option 1: Replace w/ standard wall construction & 30' of markerboard each side

VE Amount: \$34,187

Option 2: Replace w/ standard wall construction & 30' of 12" deep casework each side

VE Amount: \$11,732



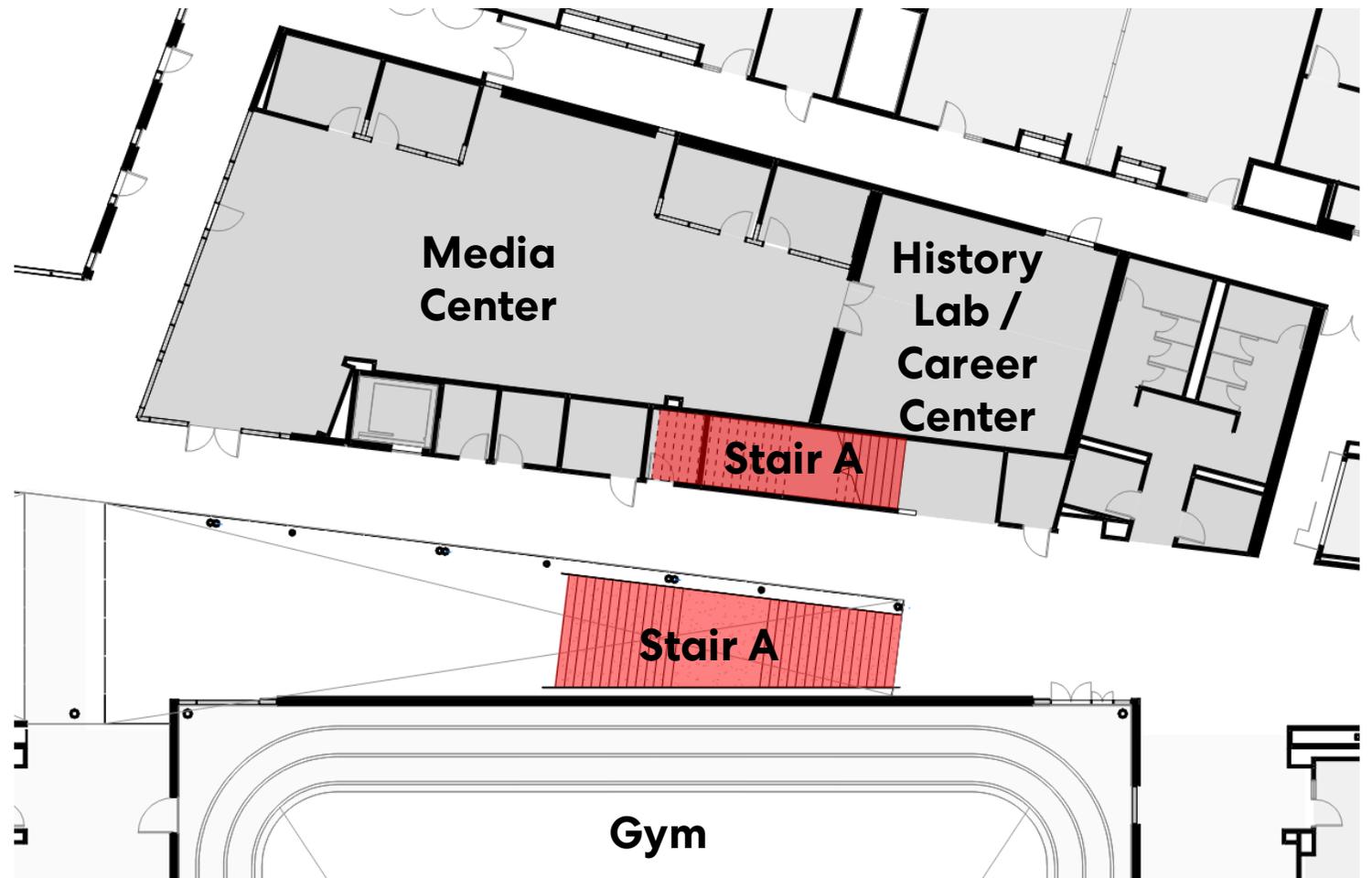
Value Engineering Items

IN-100 – Change polished concrete stair treads to rubber treads and risers on Monumental Stair (Stair A Lev 1-2)

VE Amount: \$30,025

IN-101 – Change polished concrete stair treads to rubber treads and risers on Stair A Lev 2-3

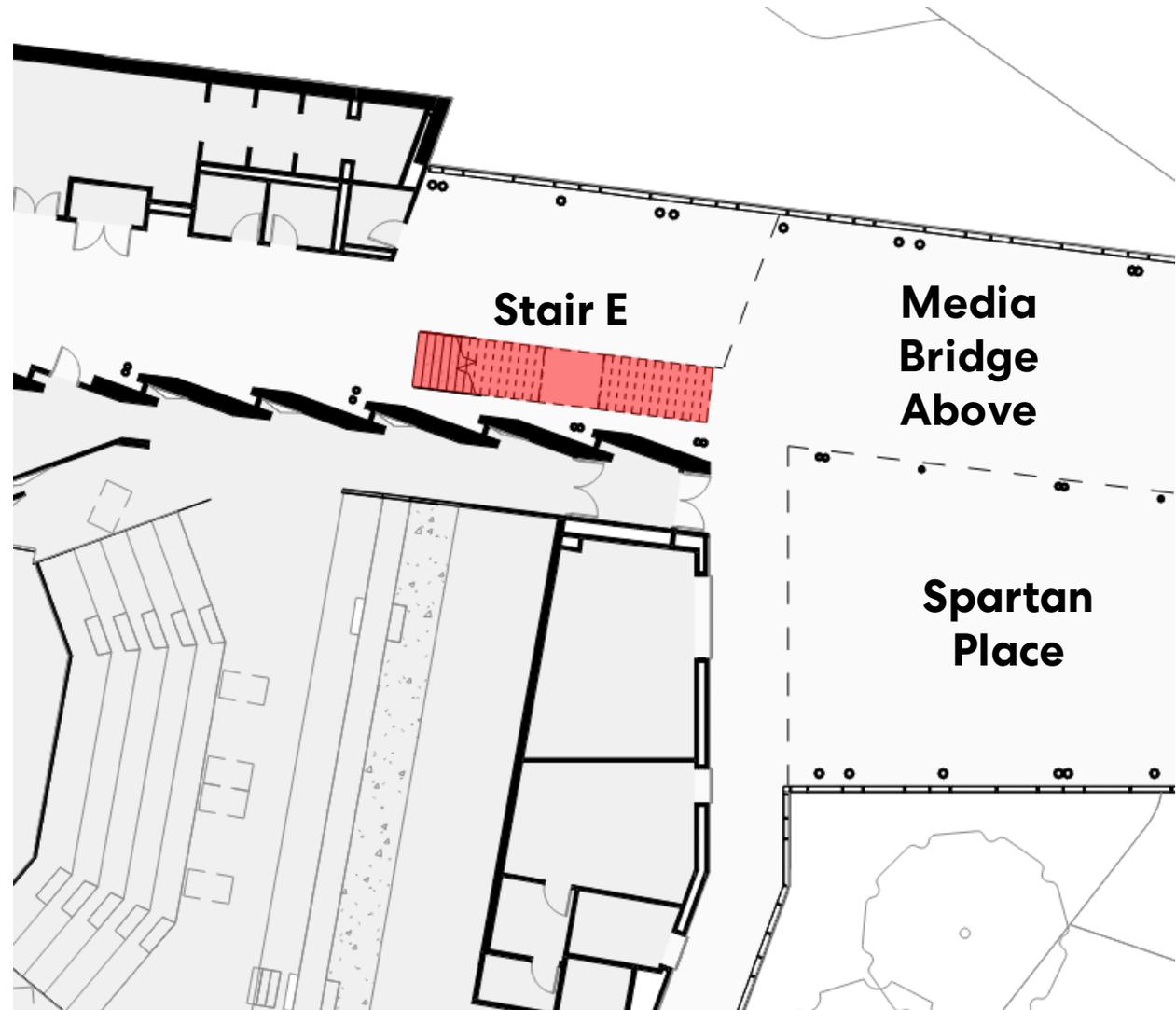
VE Amount: \$18,515



Value Engineering Items

IN-102 – Change polished concrete stair treads to rubber treads and risers on Stair E

VE Amount: \$17,014



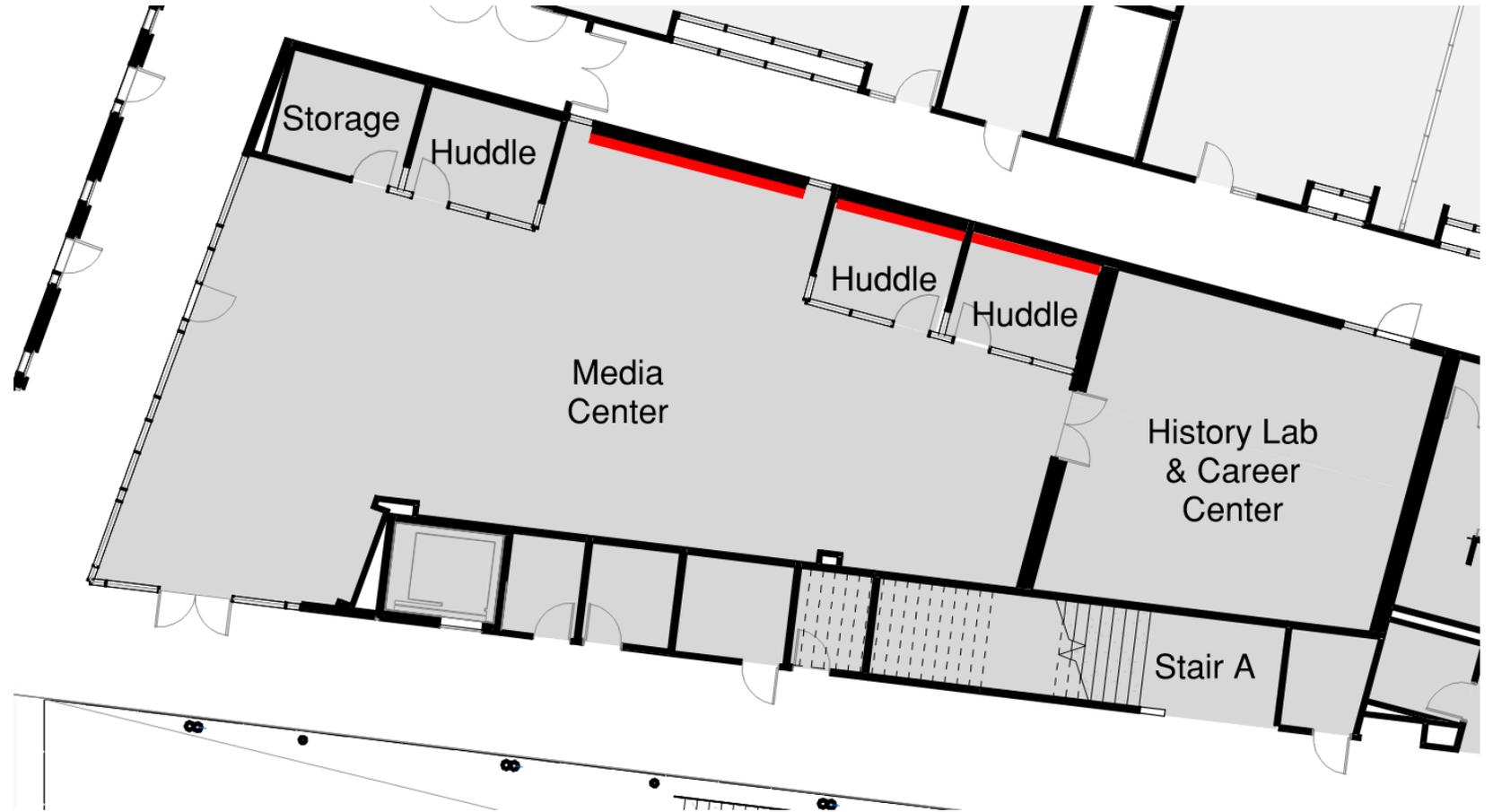
Value Engineering Items

IN-103 – Change full-height markerboards to standard 4' height

VE Amount: \$3,054

Note: The only full-height markerboards are in the Media Center, total of 40 linear feet.

Note: This VE item does not pertain to the markerboard finish on the operable partitions.

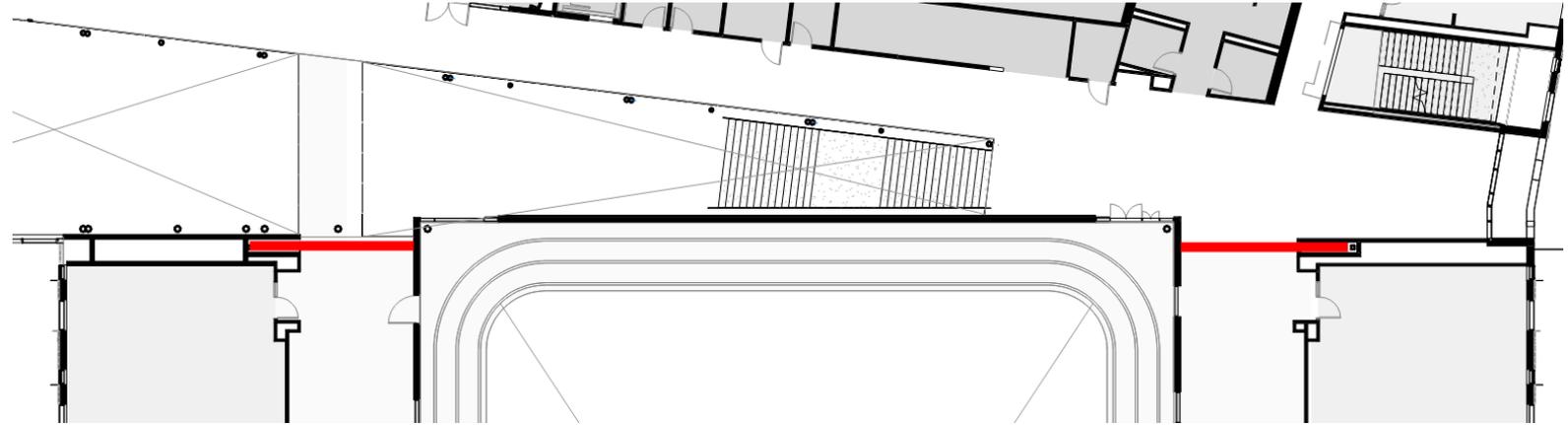


Value Engineering Items

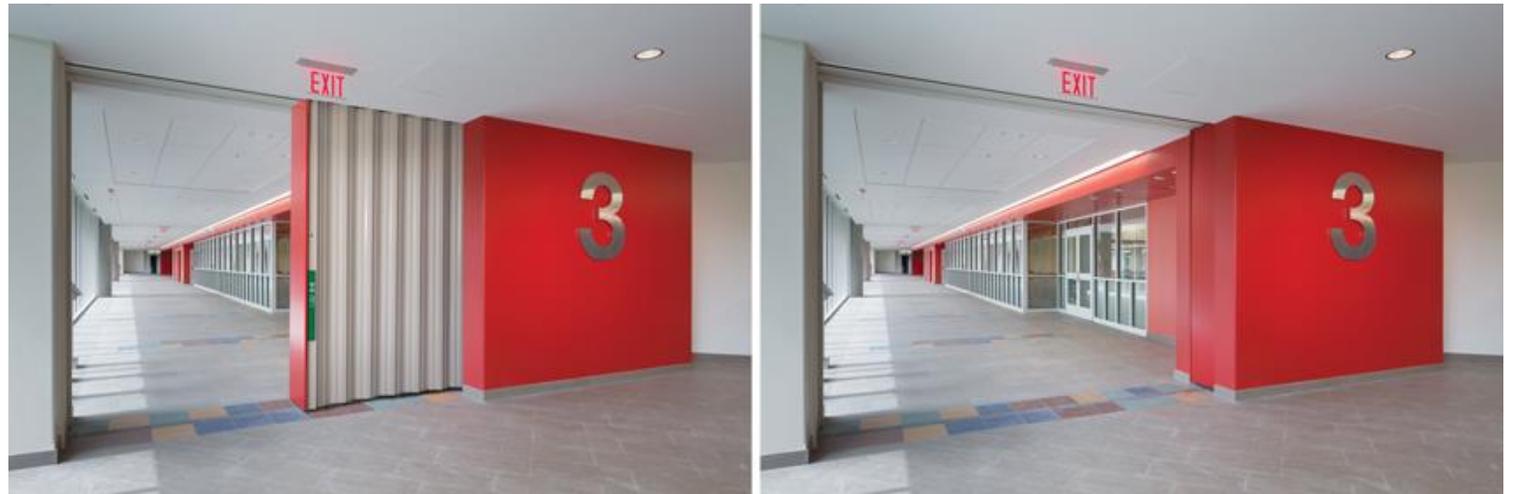
IN-104 – Remove horizontal fire doors from Area B corridors, Lev 2 & 3; Replace with oversized fire rated doors on hold opens.

VE Amount: \$33,738

Levels 2 & 3



Note: This would reduce the size of the corridor openings.



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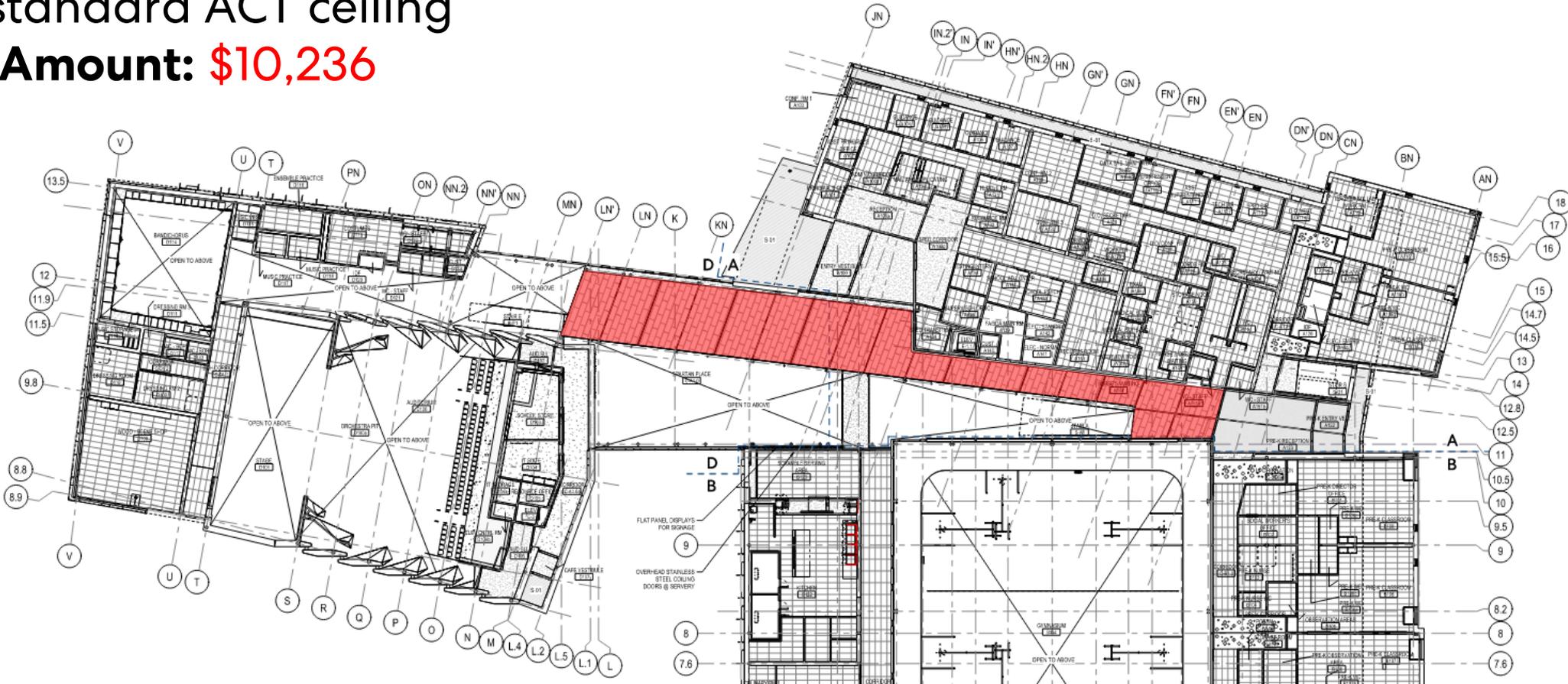
CONSIGLI

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Value Engineering Items

IN-105 – Media Bridge Ceiling – Change large format ACT under Media Bridge to standard ACT ceiling

VE Amount: \$10,236



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Project Management



CONSIGLI

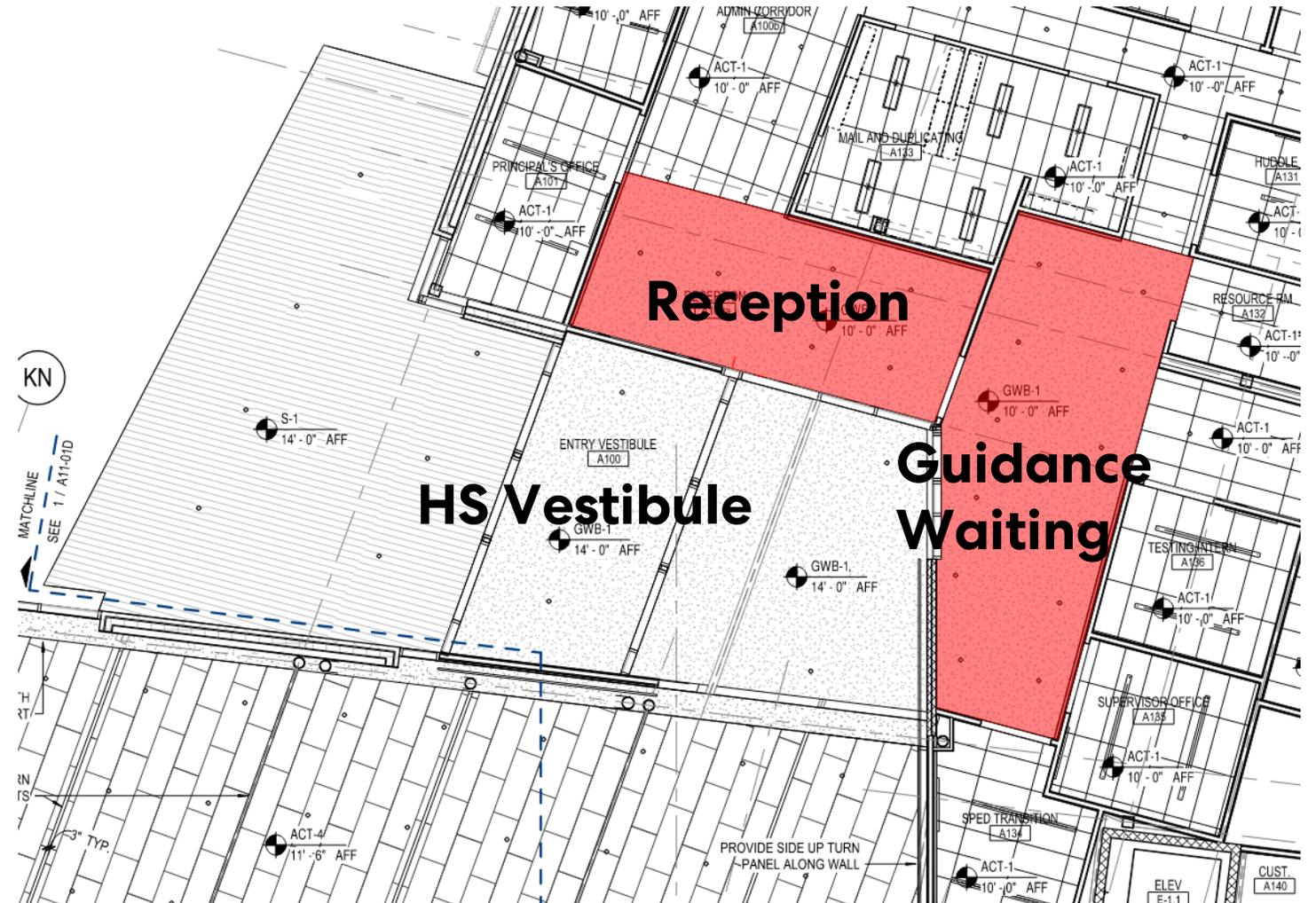
Est. 1905

Not recommended – this would decrease the acoustic quality in Spartan Place

Value Engineering Items

IN-106 – Admin. Ceiling – Change GWB ceilings in Administration suite to ACT

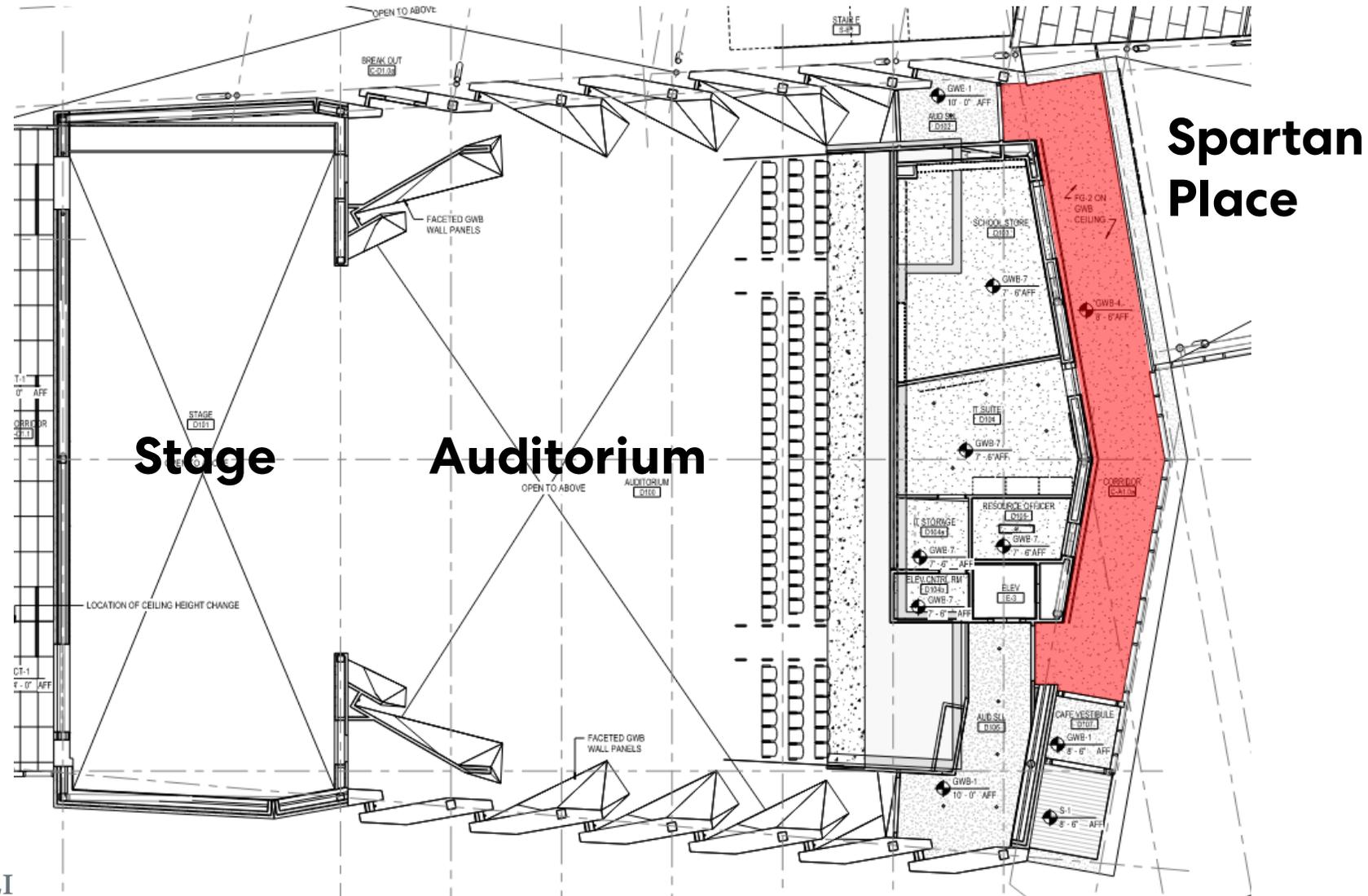
VE Amount: \$19,115



Value Engineering Items

IN-109 – Change Gypsum Board Ceiling in front of Auditorium to ACT

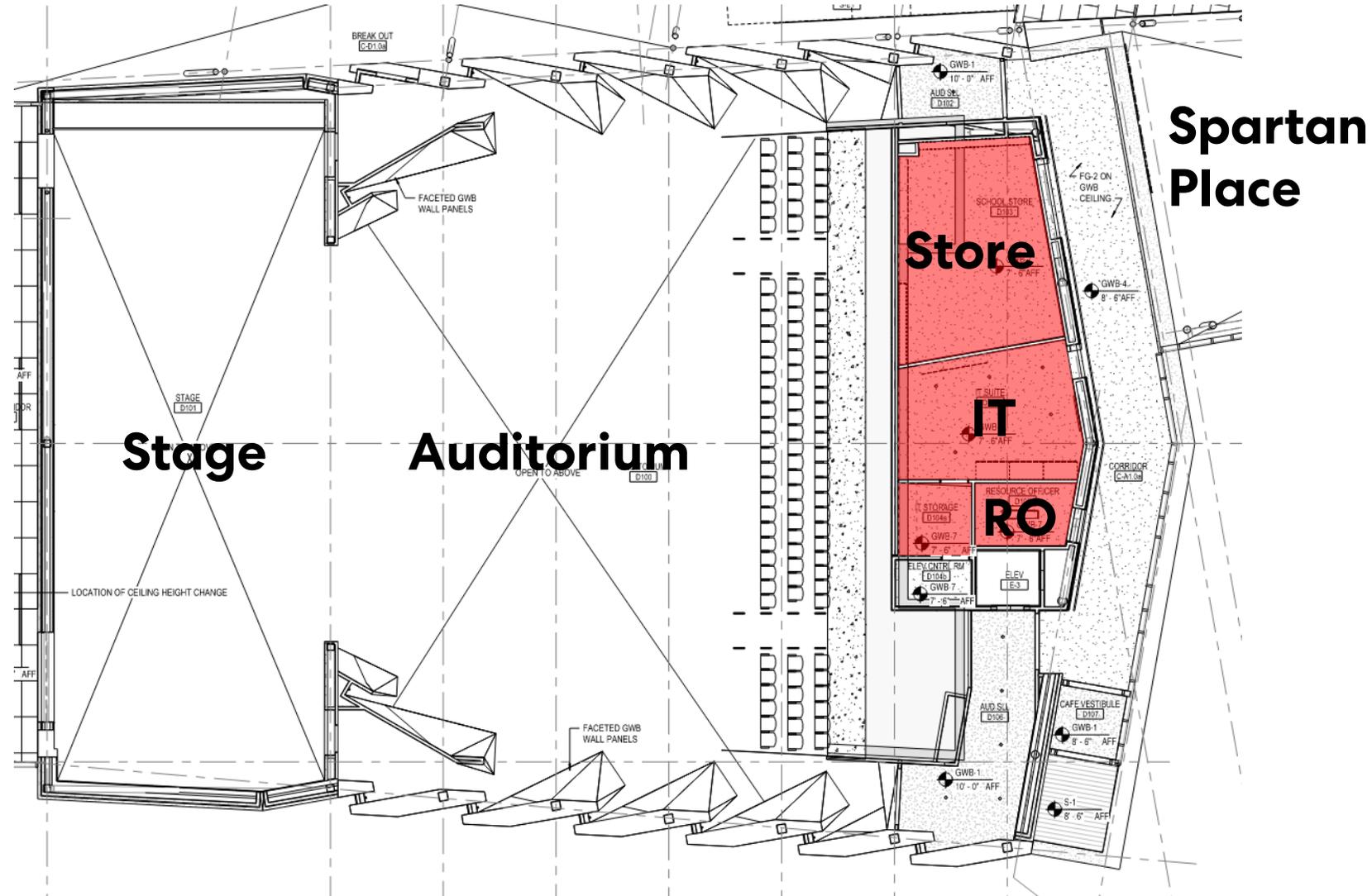
VE Amount: \$14,775



Value Engineering Items

IN-110 – Change Gypsum Board Ceilings in School Store, Resource Officer, and IT Suite to ACT

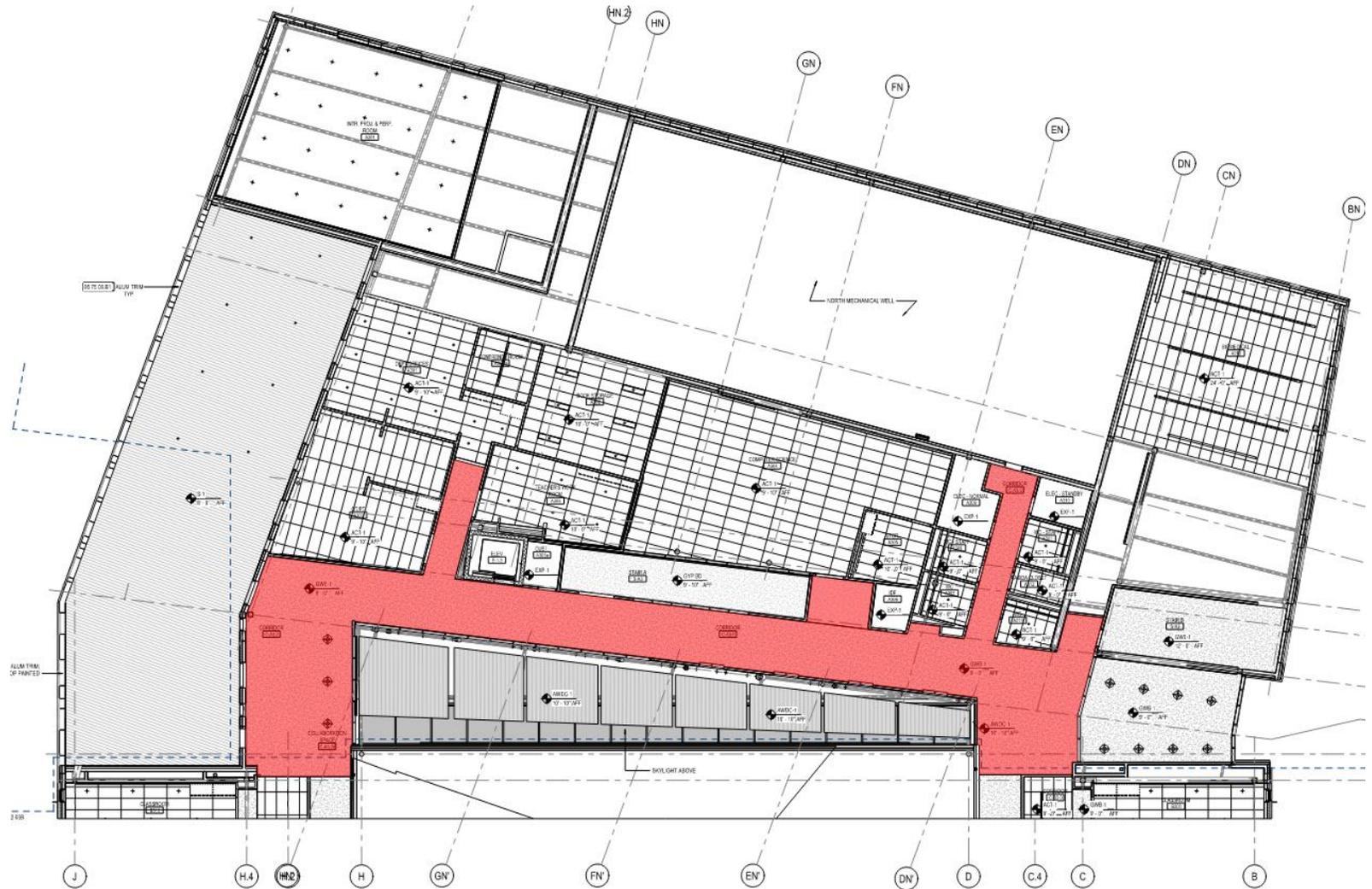
VE Amount: \$10,013



Value Engineering Items

IN-111 – Change Gypsum Board Ceiling on Level 3 north corridor to ACT

VE Amount: \$30,005



Value Engineering Items

IN-114a – Reduce Interior Glazing by 50%

VE Amount: \$397,041

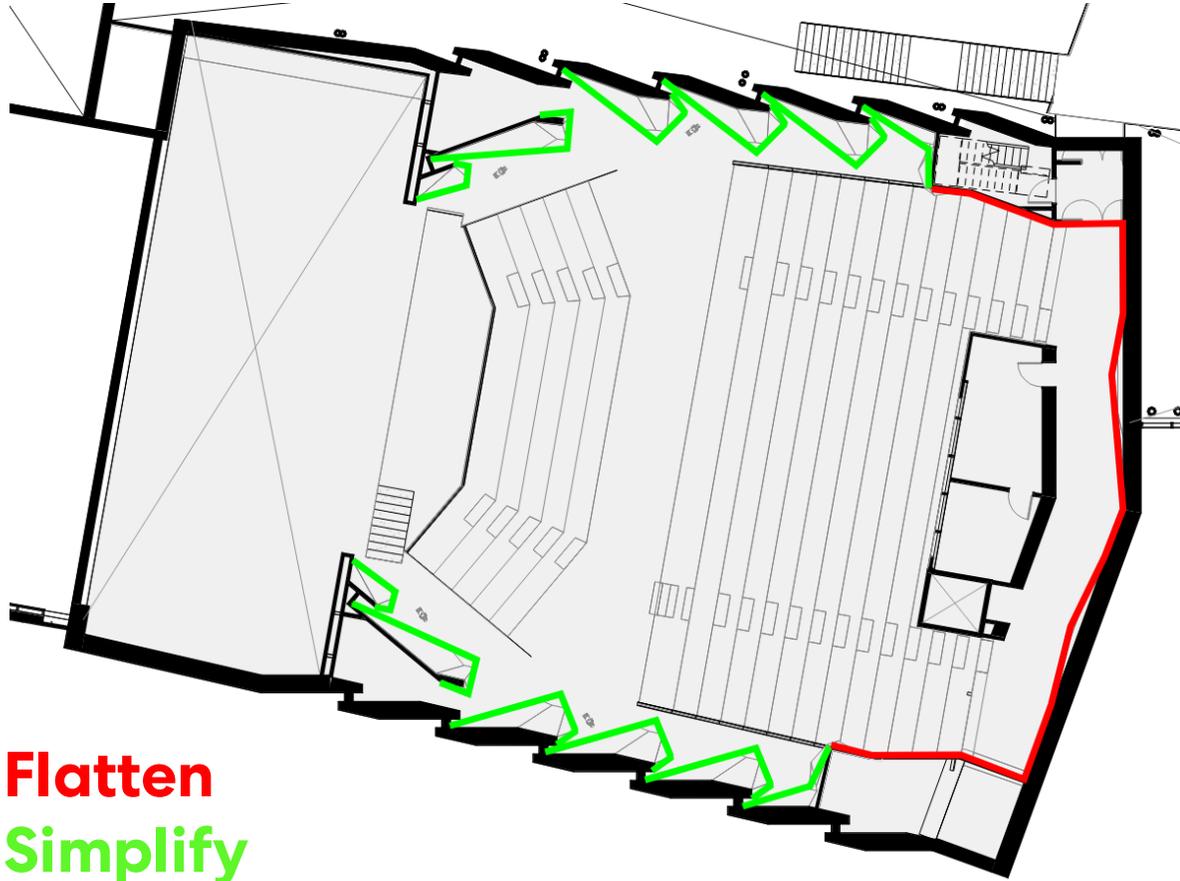
IN-114b – Reduce Interior Glazing by 25%

VE Amount: \$198,520

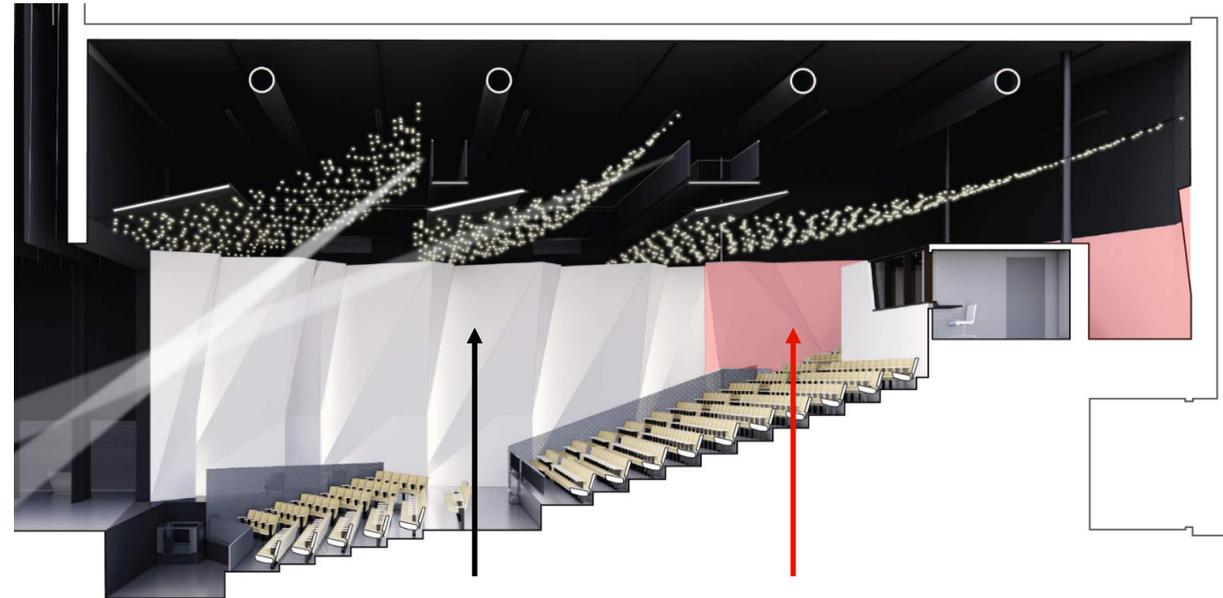
Value Engineering Items

IN-115 – Simplify & Reduce Auditorium Interior Faceted Wall Construction

VE TARGET Amount: \$50,000



Flatten
Simplify



Simplify

Flatten

Perkins&Will

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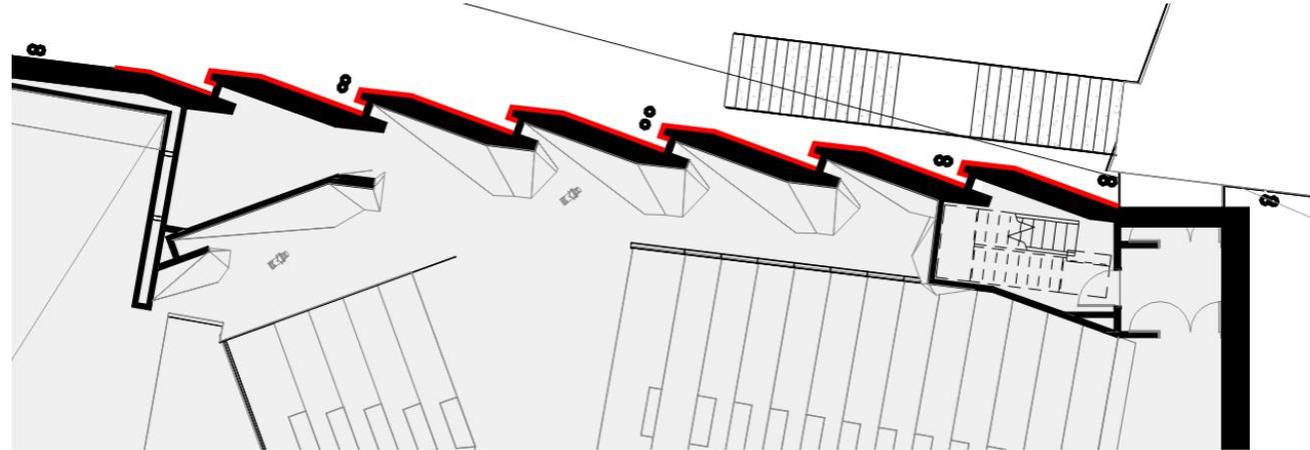
Value Engineering Items

IN-123 – Eliminate custom angled CMU brick from Interior Spartan Place detail

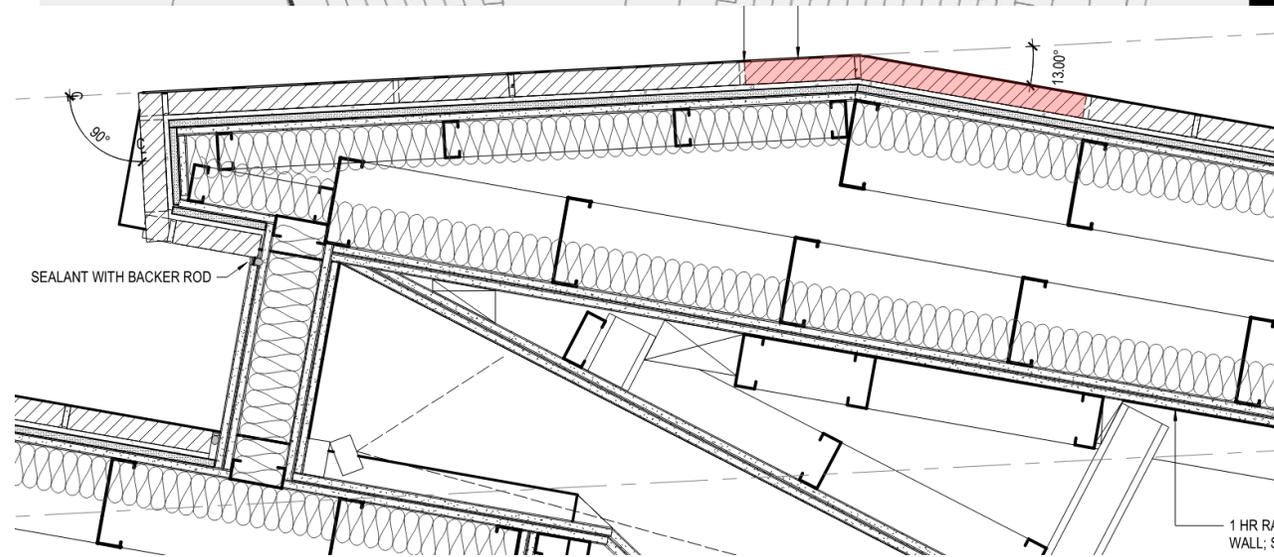
VE Amount: \$XXX,XXX

Note: Cannot take with EN-42

Plan Location



Detail



Value Engineering Items

IN-124 – Eliminate Tile in Showers; Replace with fiberglass surrounds

VE Amount: \$3,575

IN-125 – Wet Wall Tile

Option 1: Eliminate & replace with painted gypsum board

VE Amount: \$350,939

Option 2: Reduce from full height to 4' high

VE Amount: \$195,398

Value Engineering Items

IN-126 – Replace stainless steel culinary countertops with stone countertops

VE Amount: \$26,382

IN-127 – Remove Conveyor Pizza Oven and Exhaust Hood; Replace with Turbochef Ventless Pizza Oven

VE Amount: \$10,355

IN-128 – Remove finish ceilings in Egress Stairs (stairs B, C & D)

VE Amount: \$13,749

IN-129 – Change all polished concrete in Auditorium to sealed concrete

VE Amount: \$8,523

Value Engineering Items

IN-130a – Remove intumescent fireproofing from Auditorium; Replace with spray fireproofing

VE Amount: \$64,156

IN-130b – Remove intumescent fireproofing from Gymnasium; Replace with spray fireproofing

VE Amount: \$149,052

Intumescent fireproofing



Spray fireproofing



Value Engineering Items Services

Building Committee Meeting

Value Engineering Items

D-08 – Reduce hardwire tel/data drops quantities by 20%

VE Amount: \$116,349

D-11 – Reduce CCTV Surveillance camera counts by 20%

VE Amount: \$40,722

D-12 – Reduce Access Control device counts by 20%

VE Amount: \$40,722

D-22 – Eliminate Lightning Protection

VE Amount: \$102,809

Value Engineering Items

D-39 – Classroom Audio - Remove all: connections to classroom display, wireless mics, and an input for assistive listening transmitters; Target \$120K

VE TARGET Amount: \$139,619

D-40 – Change Radiant Underfloor Heating to standard HVAC heating in Spartan Place and Media Bridge

VE Amount: \$35,602

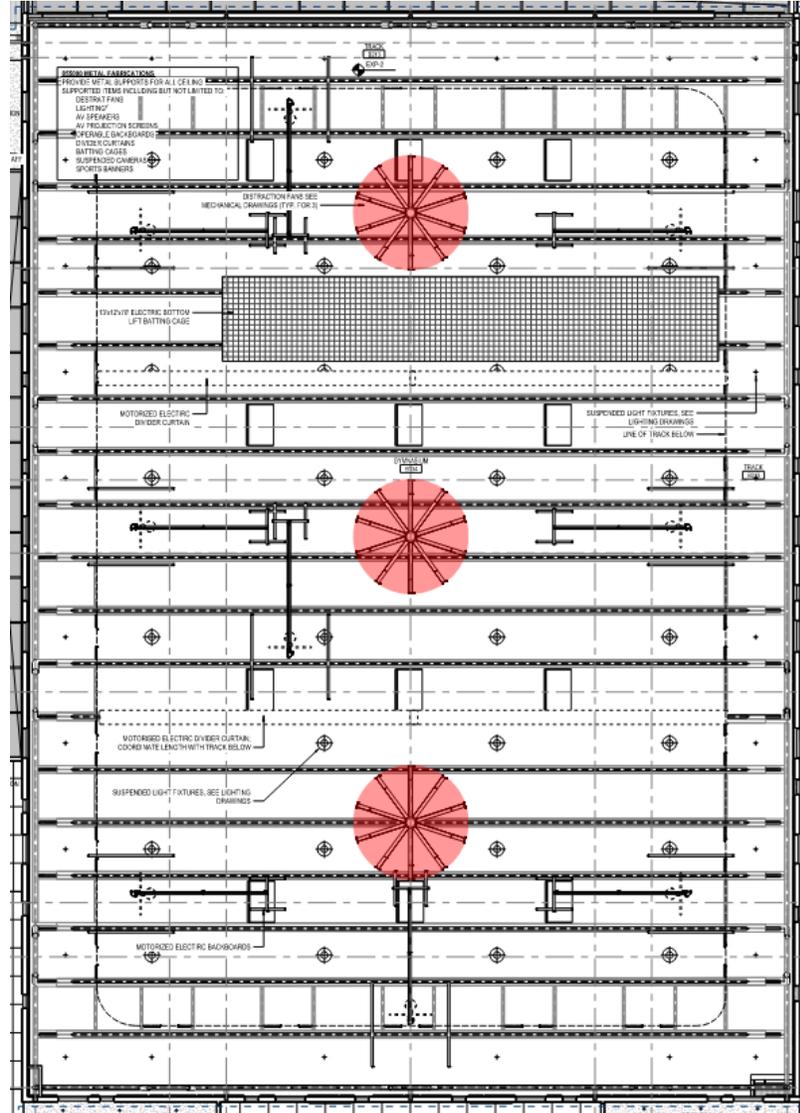
EUI Impact: +0.4

Value Engineering Items

D-41 – Eliminate all (3) large destratification fans from Gym

VE Amount: \$15,074

Note: The HVAC Consultant does not think there will be an energy impact by this item. The fans are more related to space and occupant comfort. Steady low velocity movement of air (such as is provided by these fans) creates better thermal comfort for occupants during gym activities.



Value Engineering Items

D-42 – Rainleaders - Reduce storm drainage; Target \$200K

VE TARGET Amount: \$232,698

Note: This item can only be accepted if the Level 2-3 exterior façade material changes from porcelain to masonry.

Value Engineering Items

D-44 – Eliminate sensor valves toilets; Change to manual flush levers

VE Amount: \$33,159

D-46 – Heat Recovery Units - Eliminate need for ATC control points on the heat recovery condensing units

VE Amount: \$158,652

D-47 – Diffusers – Reduce linear slot diffuser quantity by 50%; Replace with standard registers, grilles and diffusers (square-shaped)

VE Amount: \$46,580

Value Engineering Items

D-50 – Electrical Generator – Reduce size of generator to 500kW (no warming/cooling center)

VE Amount: \$174,523

D-52 – Electrical PV Distribution – Eliminate ductbanks to future PV locations at site; Assume by PV vendor

VE Amount: \$186,158

D-53 – Electrical PV Distribution – Eliminate interior conduits to future PV locations at roof; Assume by PV vendor

VE Amount: \$33,741

Value Engineering Items

D-54 – Reduce Audio Visual scope from Construction Budget; Defer costs to IT/AV budget; Target \$250K

VE TARGET Amount: \$290,872

D-55 – Site Lighting – Reduce quantity of site lighting fixtures by 1/3

VE Amount: \$141,058

D-56a – Performance Room Heat Recovery Unit – Eliminate HRU-11 and replace with (2) 4-ton ducted refrigerant fan coil units and associated air cooled condensing units

VE Amount: \$111,352

D-56b – Performance Room Heat Recovery Unit – Tie to existing Admin. unit

VE Amount: \$2,909

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Value Engineering Items

D-57 – Hot Water – Combine kitchen water heater with domestic water heaters

VE Amount: \$12,102

D-58 – Remove hot water pre-heat system tank and heat exchanger. NOTE: This will affect the building Energy Use Intensity.

VE Amount: \$XXX,XXX

D-59 – Remove service backflow preventers

VE Amount: \$3,279

D-60 – Remove Cabinet Unit Heaters in Egress Stairs (B, C & D) on Levels 2 & 3

VE Amount: \$27,047

Value Engineering Items

D-61 – Remove Fire Protection entirely from Stadium Building

VE Amount: \$102,193

D-62 – Remove standpipes in main building

VE Amount: \$97,659

Notes: Requires approval by the AHJ

D-63 – Lighting Controls – Change to Wireless; Target \$250K reduction

VE Amount: \$290,872

D-64 – Lighting Fixtures – Target reduction of lighting package by \$2/SF

VE Amount: \$481,864

Energy Performance Impacts Review

Building Committee Meeting

Value Engineering Items

Energy Performance Impacts - EUI

Timeline	EUI (kBty/sf-yr)
Feasibility / SD Goal	25.0
DD Goal after SD Cost Reductions	26.5
Current DD EUI	25.7
Max EUI for NET ZERO	26.4 (+0.7 buffer from current EUI)

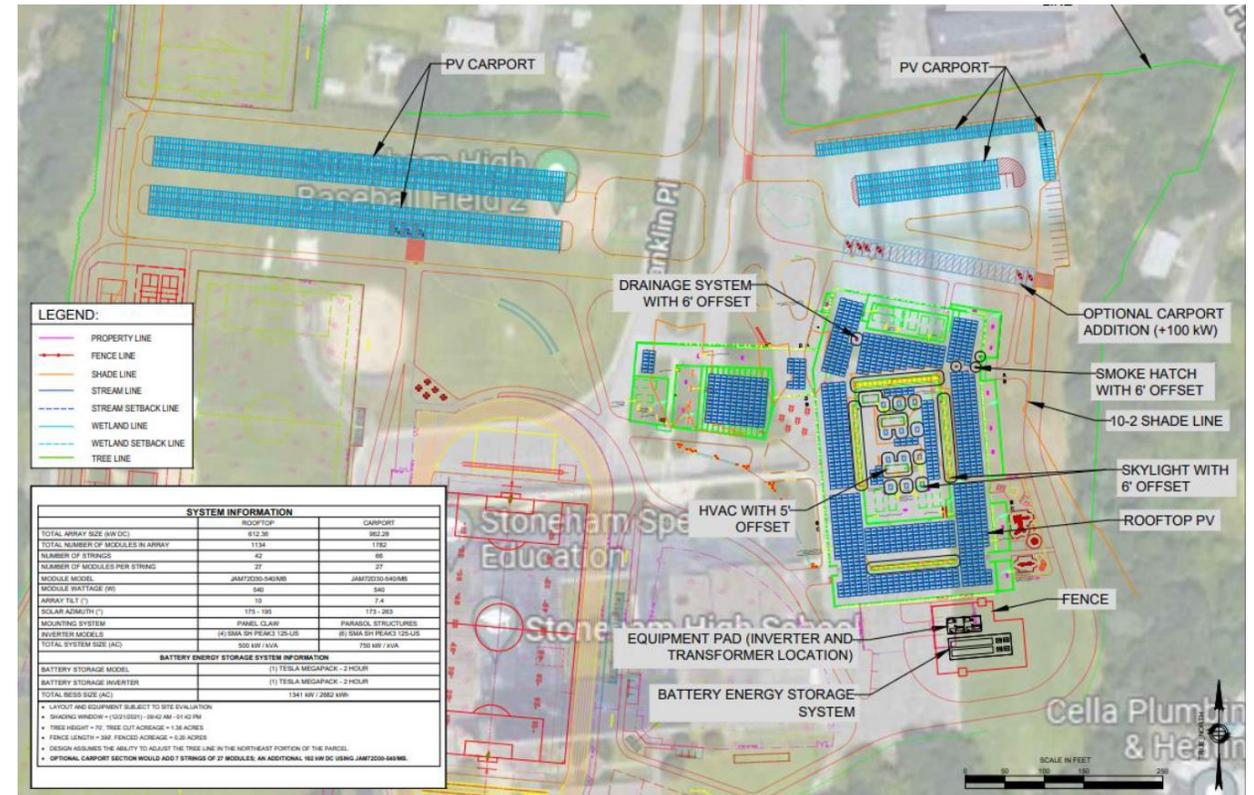
5.6% increase

Value Engineering Items

Energy Performance Impacts – EUI Buffer

**0.7 EUI buffer
(about 15 spaces)**

**If we increase the EUI
more than 0.7, we will
not meet the net zero
building goal**



Value Engineering Items

Energy Performance Impacts

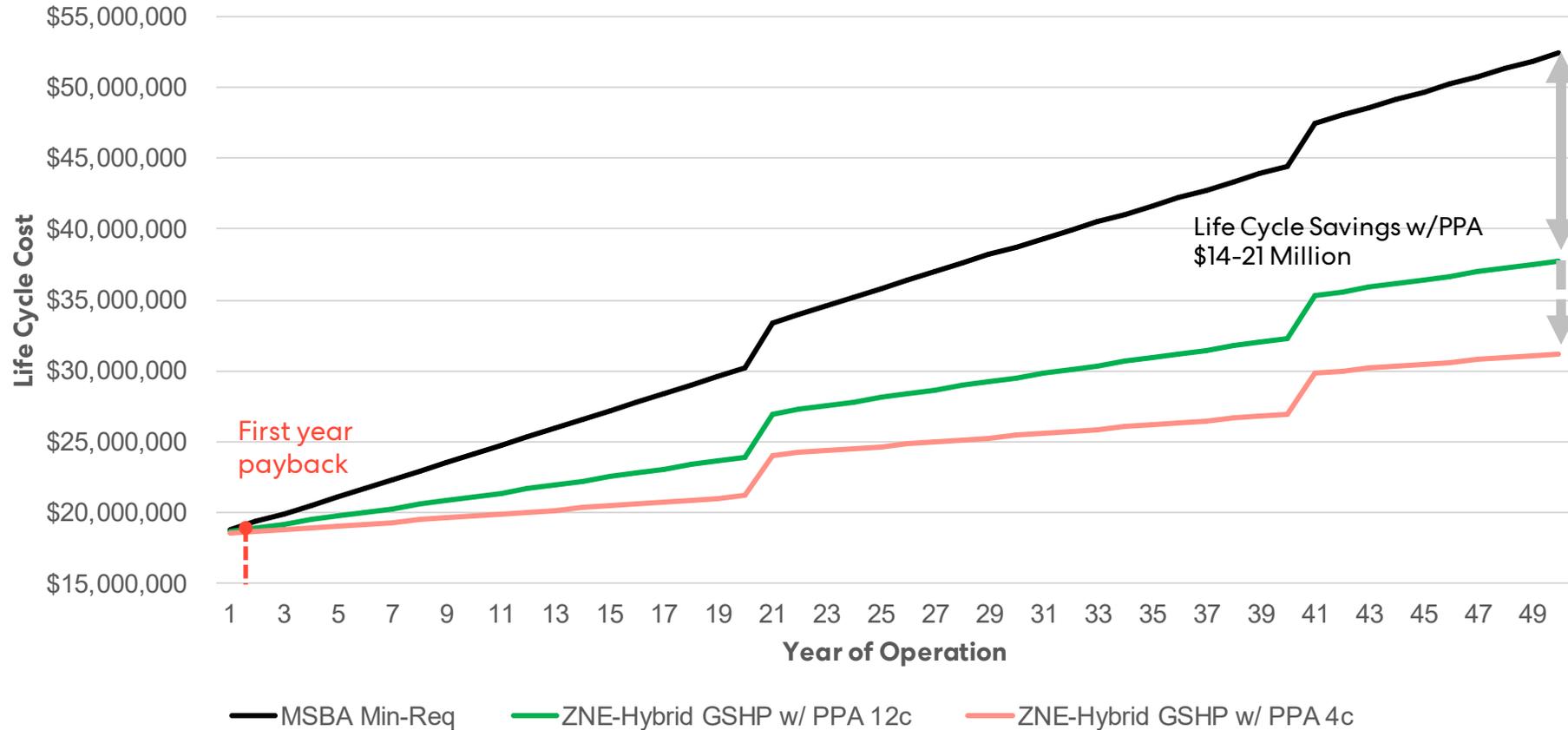
(1 ton = 1 football field of trees growing for 1 year) (Higher is better)

VE Item	VE \$ Amount	EUI	Annual Cost Increase (\$)	Annual Carbon Increase	VE \$/ton	PV Area Increase(%)
		kBtu/sf-yr	\$0.049/kWh)	Ton	\$/ton	Based on 1620MWh/yr
BASIS OF DESIGN	-	25.7	-	-	-	-
EN-37A: Curtain Wall 100% Double Glazed	\$579,941	+0.7	+\$1,989	11.8	\$49,148/ton	2.5% (14 parking spaces)
EN-37B: Curtain Wall 60% Triple Glazed, 40% Double Glazed	\$231,977	+0.1	+347	2.1	\$110,465/ton	0.4% (2 parking spaces)
EN-50: Insulation Reduce insulation between studs by 3" (From R33 to R26.6 wall)	\$206,659	+0.1	+\$228	1.4	\$147,614/ton	0.3% (2 parking spaces)
D-40: Radiant Heating Replace Radiant Floor in Café and Media Bridge with standard HVAC heating	\$35,602	+0.4	+\$1,187	7.1	\$5,014/ton	1.5% (8 parking spaces)
IN-60/61a: Change fume hoods to recirculating	\$132,252	minimal	minimal	-	-	minimal
D-58: Remove HW pre-heat system tank and HE	\$PENDING	minimal	minimal	-	-	minimal
CL-78: Reduce well count from 60 to 48	\$611,530	no penalty	-	-	-	-

Value Engineering Items

Energy Performance – SD Life Cycle Cost Analysis

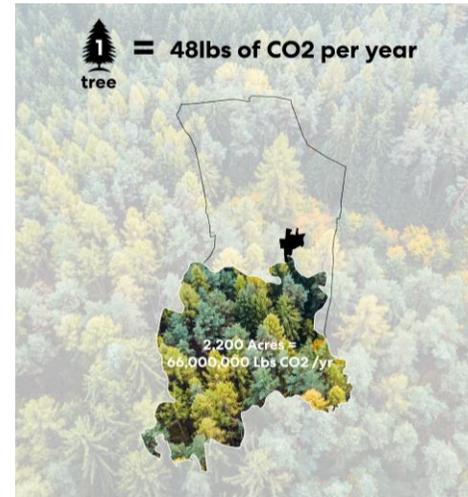
- Update in progress to reflect DD estimate
- Stoneham Baseline Electricity Rate : 31 cents
- PPA Rate: 4.9 cents



Value Engineering Items

Energy Performance Impacts – Carbon Increase

1 ton of Carbon = 1 acre of trees for 1 year

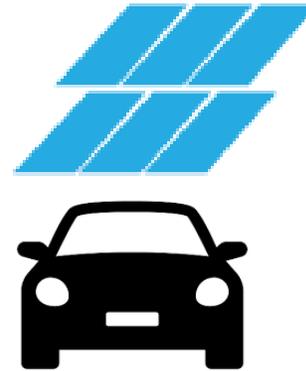


Our Site is 39 acres
A football Field is 1.32 acres

Value Engineering Items

Energy Performance Impacts – PV Area Increase

1 EUI = 20 Parking Spaces



Value Engineering Items Civil / Landscaping

Building Committee Meeting

Value Engineering Items

CL-01 – Entry Drive Curbs – Change Vertical Granite to Precast Concrete; Radius to remain Vertical Granite

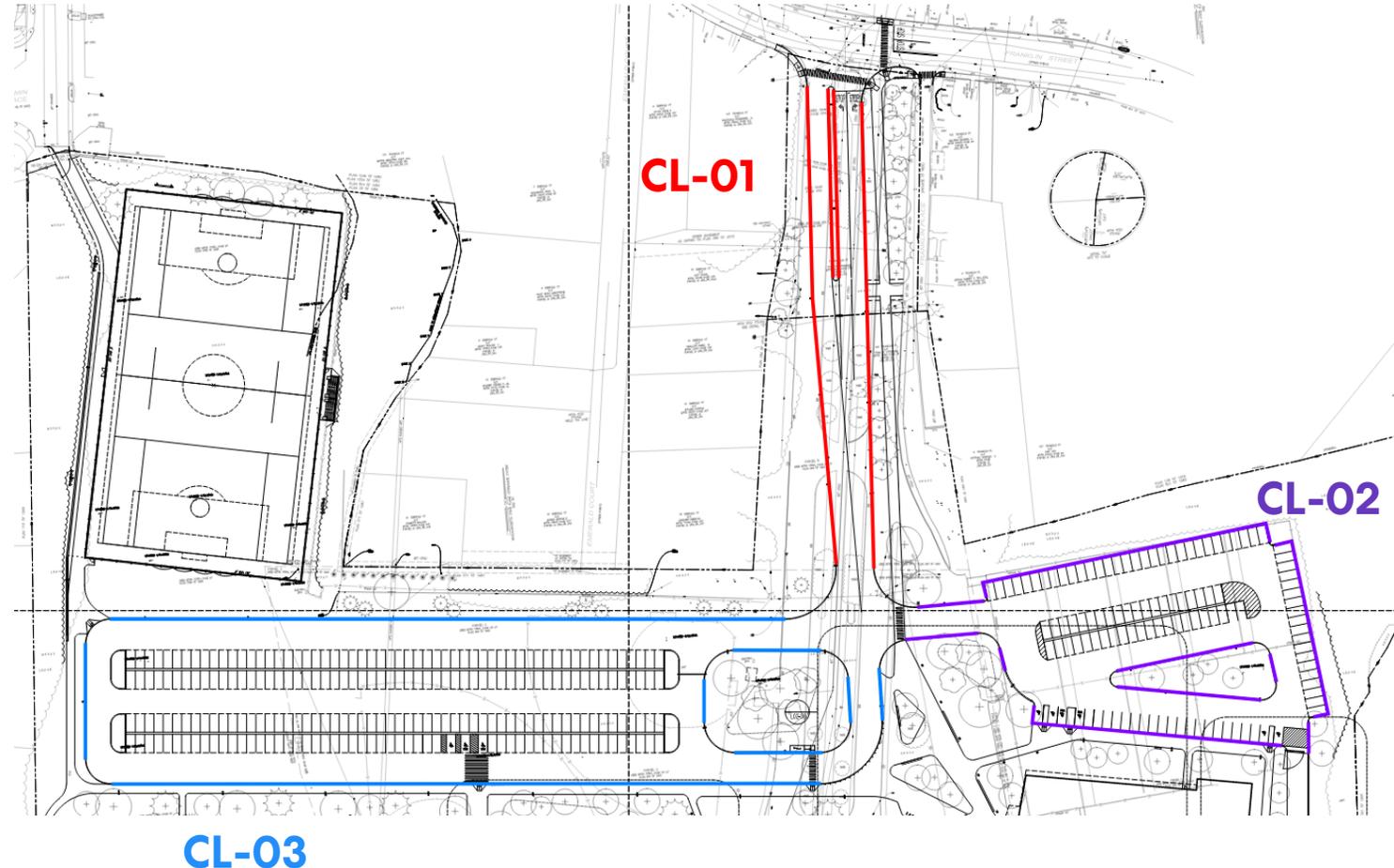
VE Amount: \$31,476

CL-02 – East Parking Lot Curbs – Change Vertical Granite to Cape Cod Berm; Radius to remain Vertical Granite

VE Amount: \$52,094

CL-03 – West Parking Lot Curbs – Change Vertical Granite to Cape Cod Berm; Radius to remain Vertical Granite

VE Amount: \$58,465



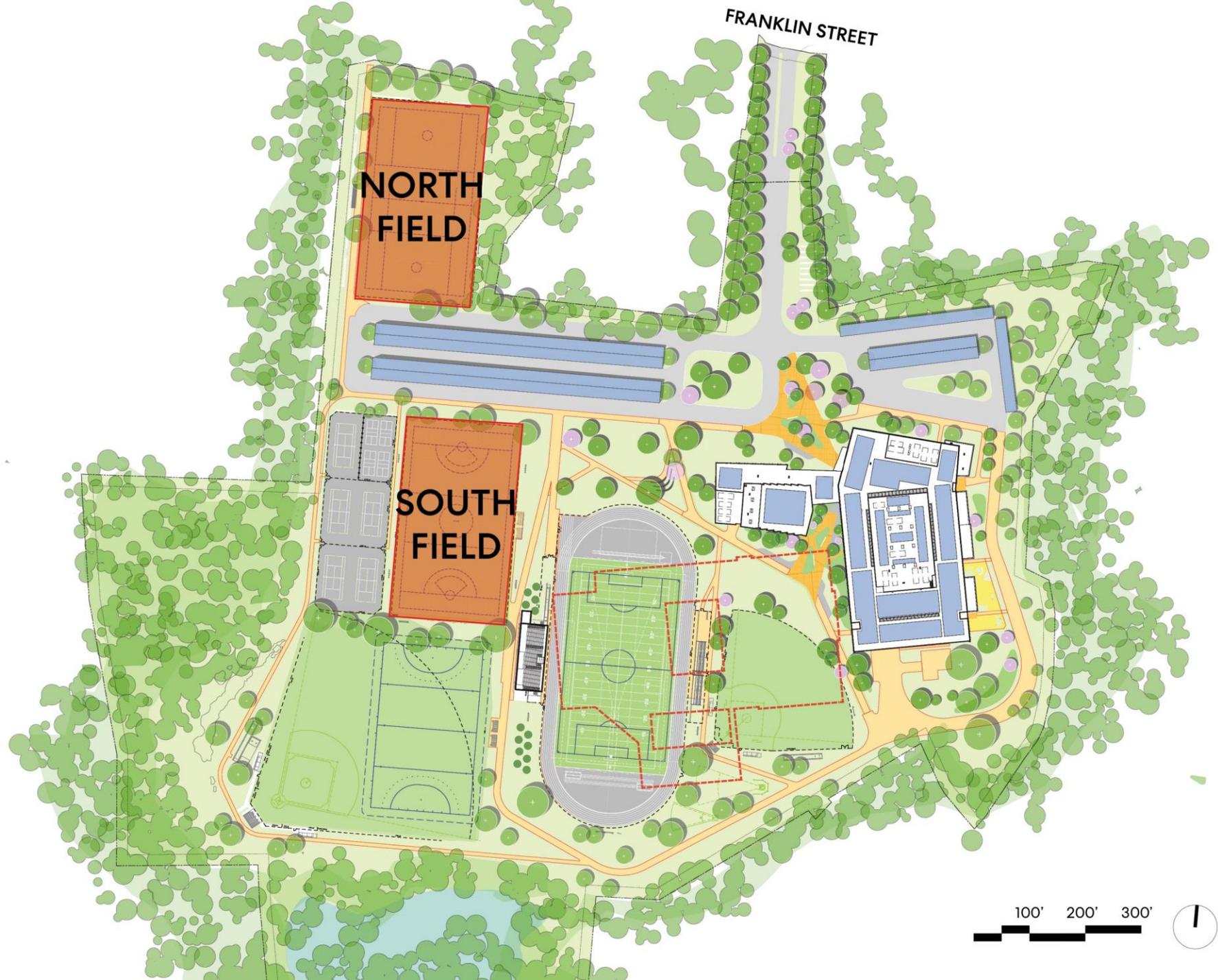
Value Engineering Items

CL-14 – Turf Field –
Change South Turf
Field to Seeded
Grass w/ Irrigation
VE Amount:

\$664,615

CL-15 – Turf Field –
Change North Turf
Field to Seeded
Grass w/ Irrigation
VE Amount:

\$805,347



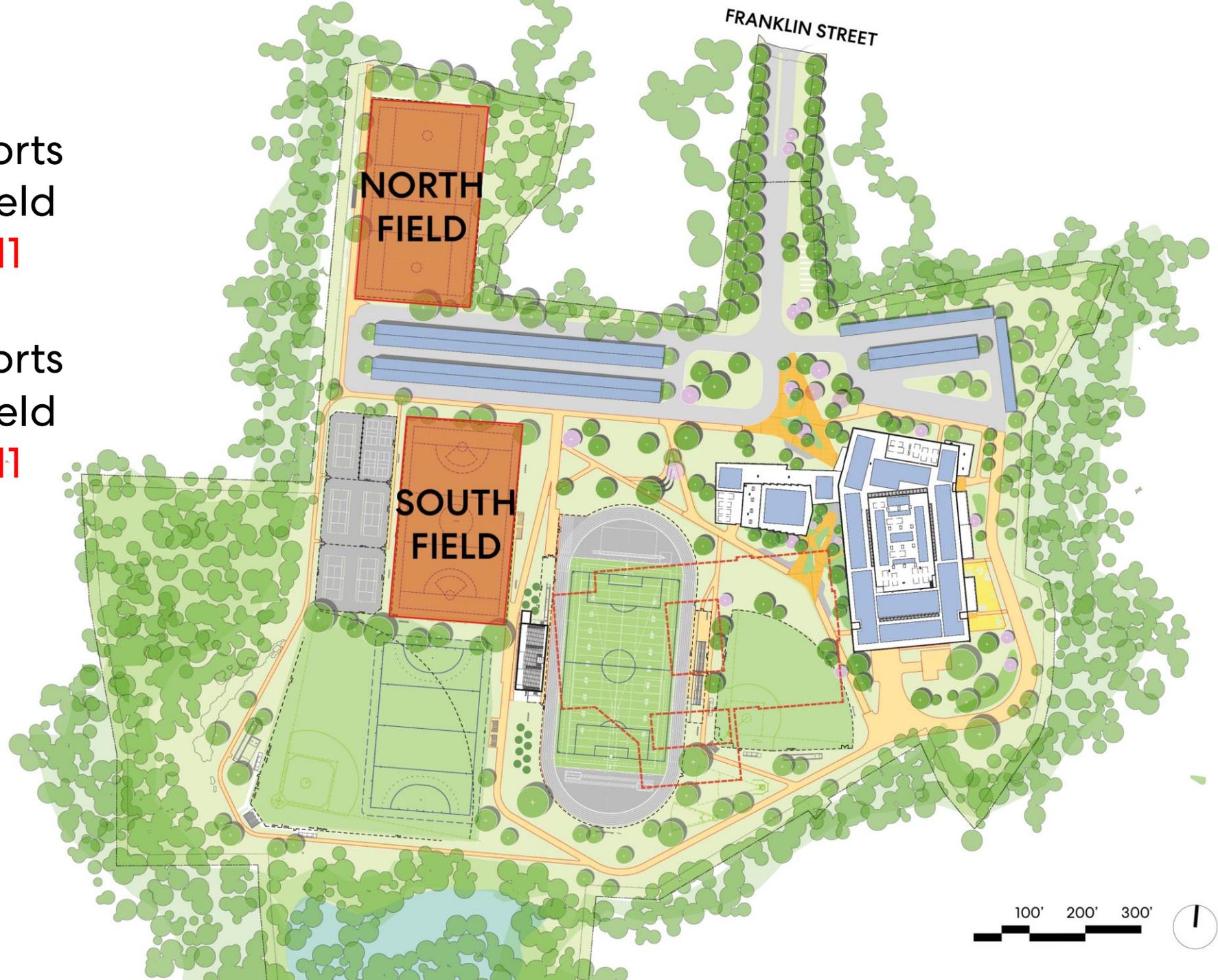
Value Engineering Items

CL-27a – Delete Sports Lighting at North Field

VE Amount: \$445,311

CL-27b – Delete Sports Lighting at South Field

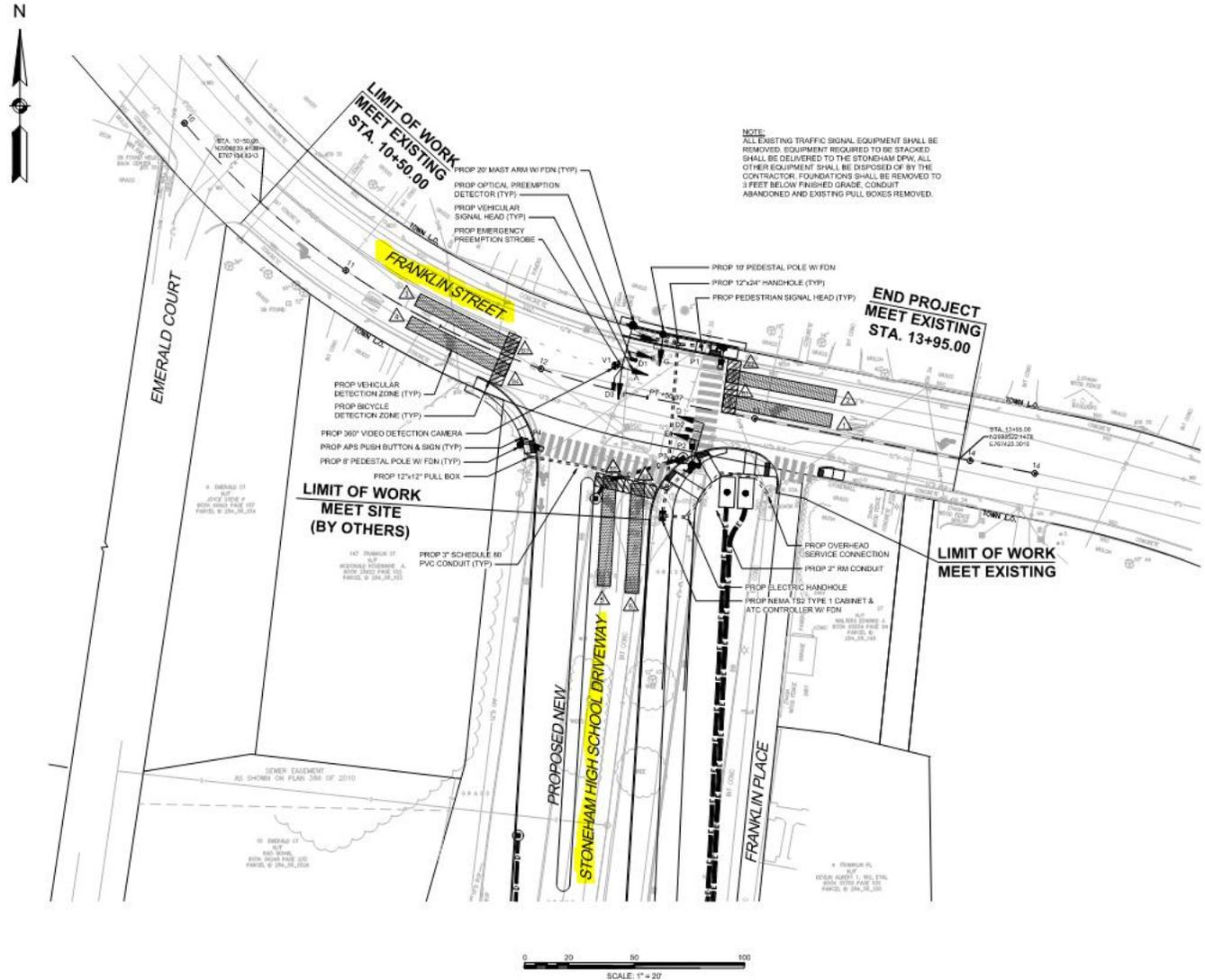
VE Amount: \$445,311



Value Engineering Items

CL-31 – Traffic Signal & Intersection work at HS Entry by Town, not in project

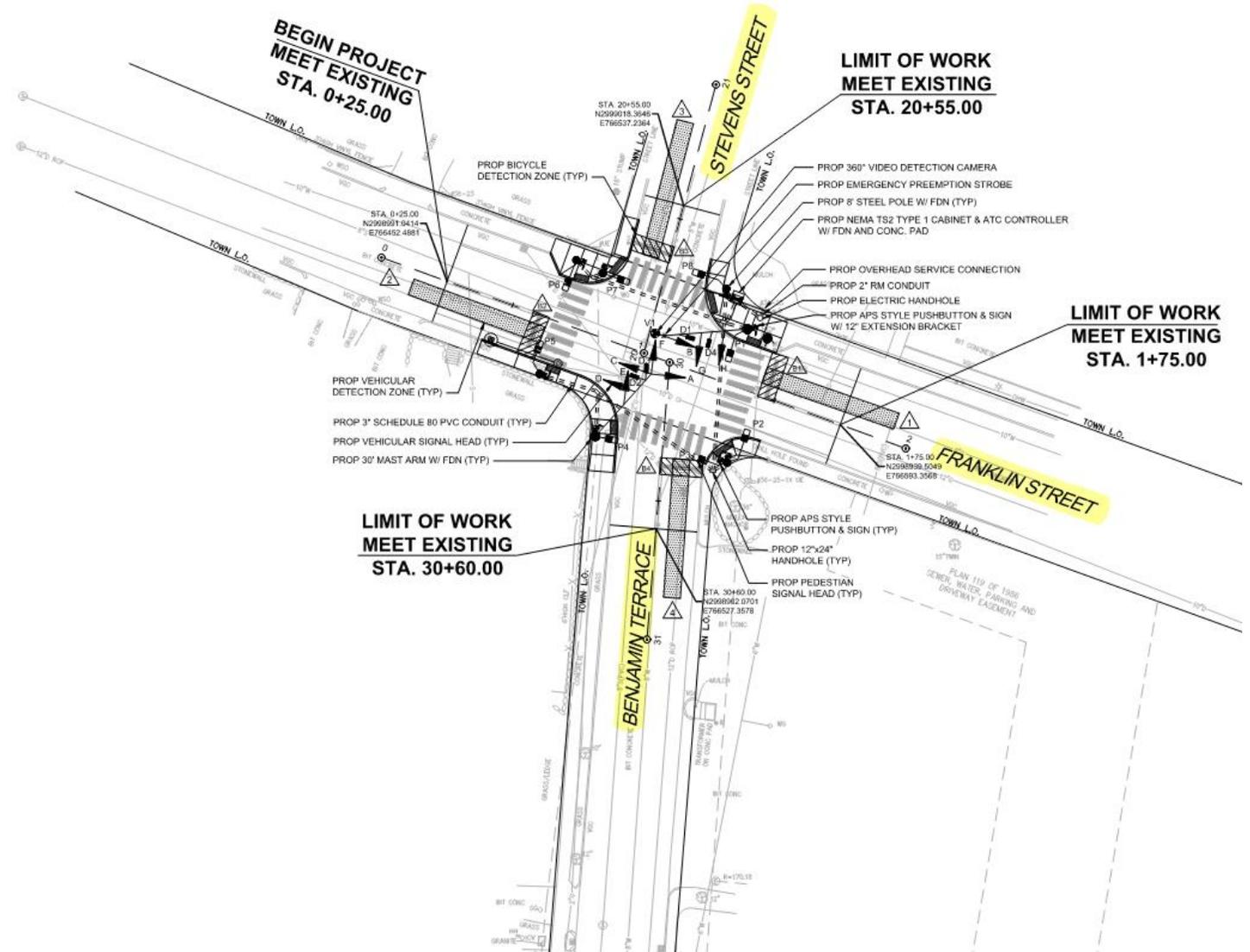
VE Amount: **\$292,062**



Value Engineering Items

CL-32 – Traffic Signal & Intersection work at Benjamin Terrace & Stephens Street
by Town, not in project

VE Amount: \$525,024



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Value Engineering Items

CL-38a – Delete 1
Scoreboard; Keep
Infrastructure

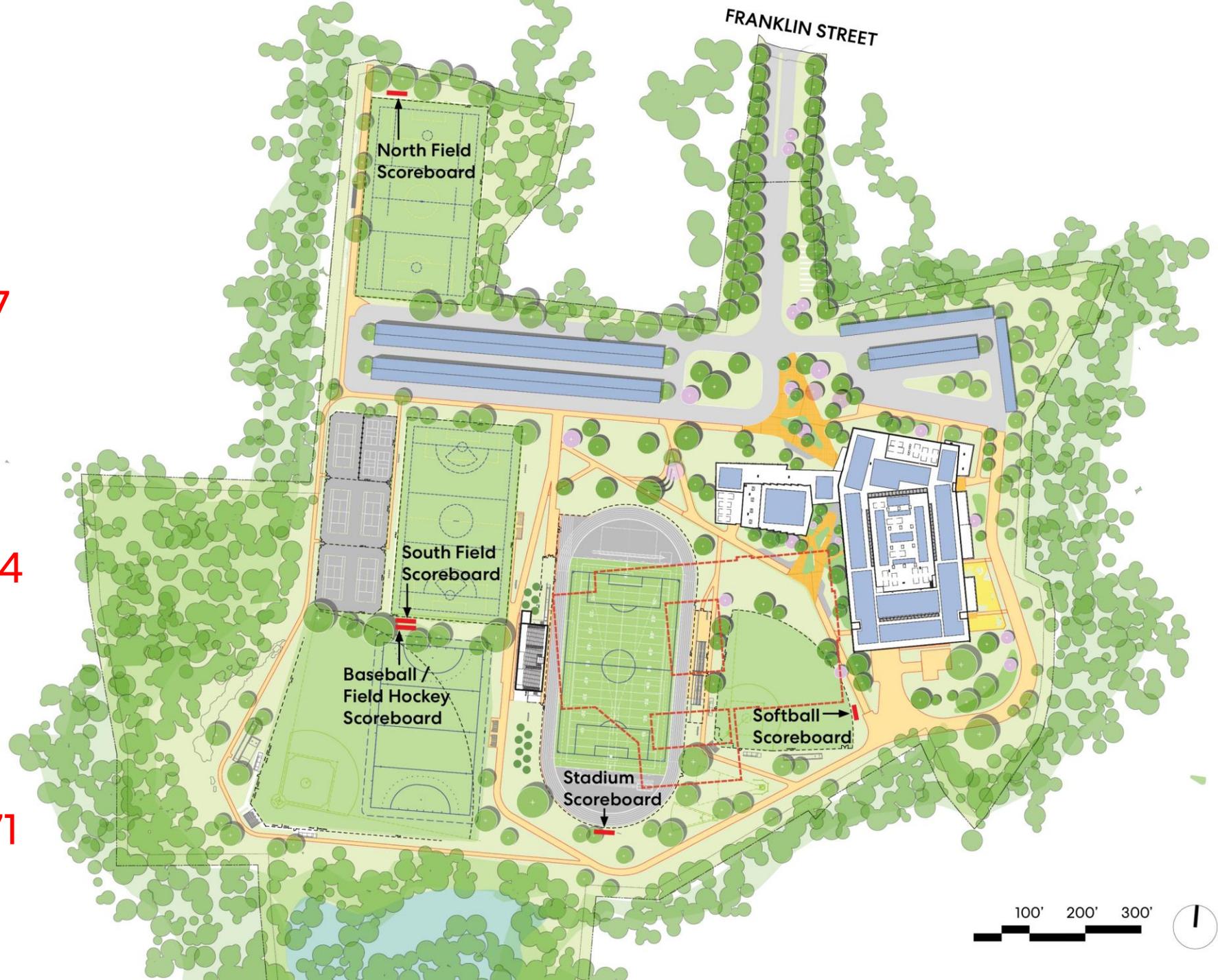
VE Amount: \$52,357

CL-38b – Delete 2
Scoreboards; Keep
Infrastructure

VE Amount: \$104,714

CL-38c – Delete 3
Scoreboards; Keep
Infrastructure

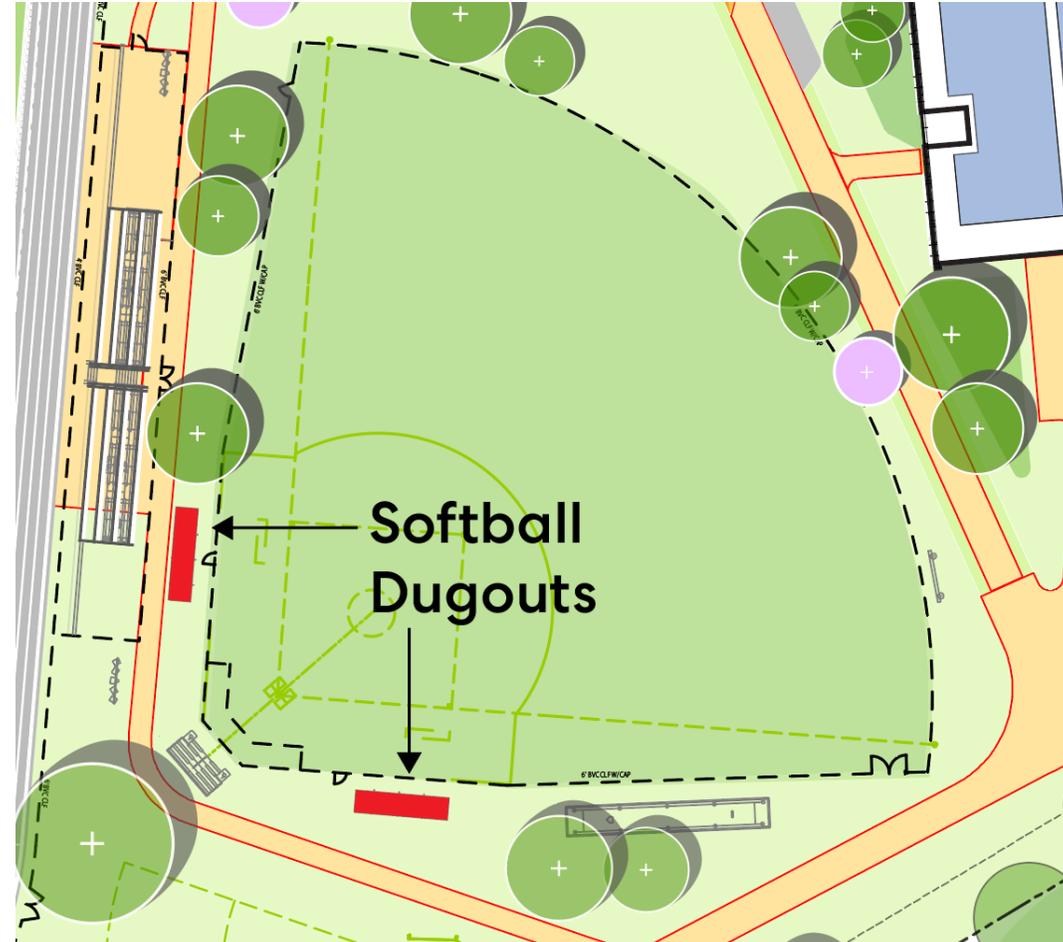
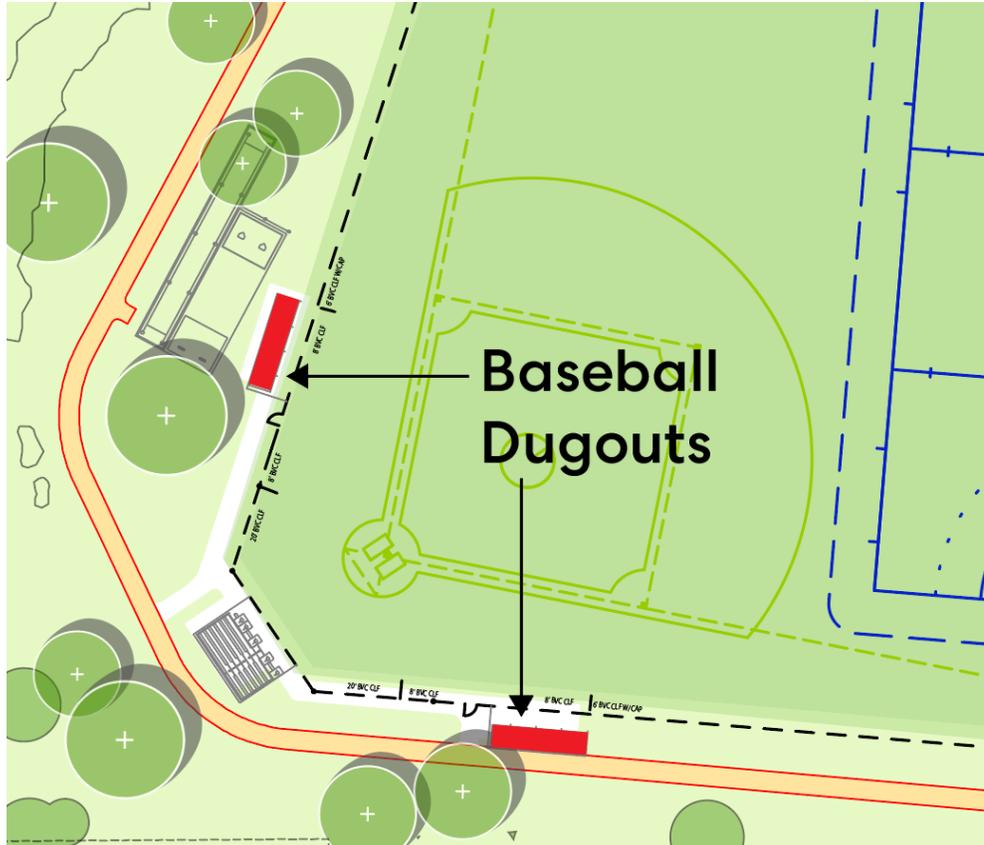
VE Amount: \$157,071



Value Engineering Items

CL-40 – Simplify prefabricated dugouts at Baseball and Softball

VE TARGET Amount: \$169,842



Value Engineering Items

CL-41 – Sidewalks: Change 25% of concrete sidewalks to asphalt

VE TARGET Amount: \$24,967

CL-42 – Northwest Access: Replace asphalt road from west parking lot to Benjamin Terrace with stone dust

VE Amount: \$8,351

CL-43 – Sidewalks:
Change all asphalt
sidewalks to stone dust

VE Amount: \$44,604



Value Engineering Items

CL-45 – Fencing: Reduce height of 6 ft fencing to 4 ft (Tennis to remain 10 ft)

VE Amount: \$90,224

CL-46 – Exterior Track: Change color from blue to black

VE Amount: \$12,798

Value Engineering Items

CL-47 – Bleachers: Eliminate Bleachers from Both Soccer Fields

VE Amount: \$99,782

CL-48 – Bleachers: Eliminate Bleachers from Baseball Field

VE Amount: \$27,865

CL-49 – Bleachers: Eliminate Bleachers from Softball Field

VE Amount: \$16,630

Value Engineering Items

CL-50a – Eliminate Batting Cages from Baseball Field & Softball Field

VE Amount: \$33,112

CL-50b – Utilize 1 shared batting cage for Baseball & Softball

VE Amount: \$16,556

CL-51 – Eliminate Soccer Nets; Utilize Existing

VE Amount: \$43,631

Value Engineering Items

CL-52 – Eliminate Spartan Stadium Visitor Bleachers

VE Amount: \$124,424



Value Engineering Items

CL-53 – Eliminate café seating furniture at Spartan Plaza

VE Amount: \$82,521



Value Engineering Items

CL-54a – Reduce concessions building program and corresponding home bleacher count

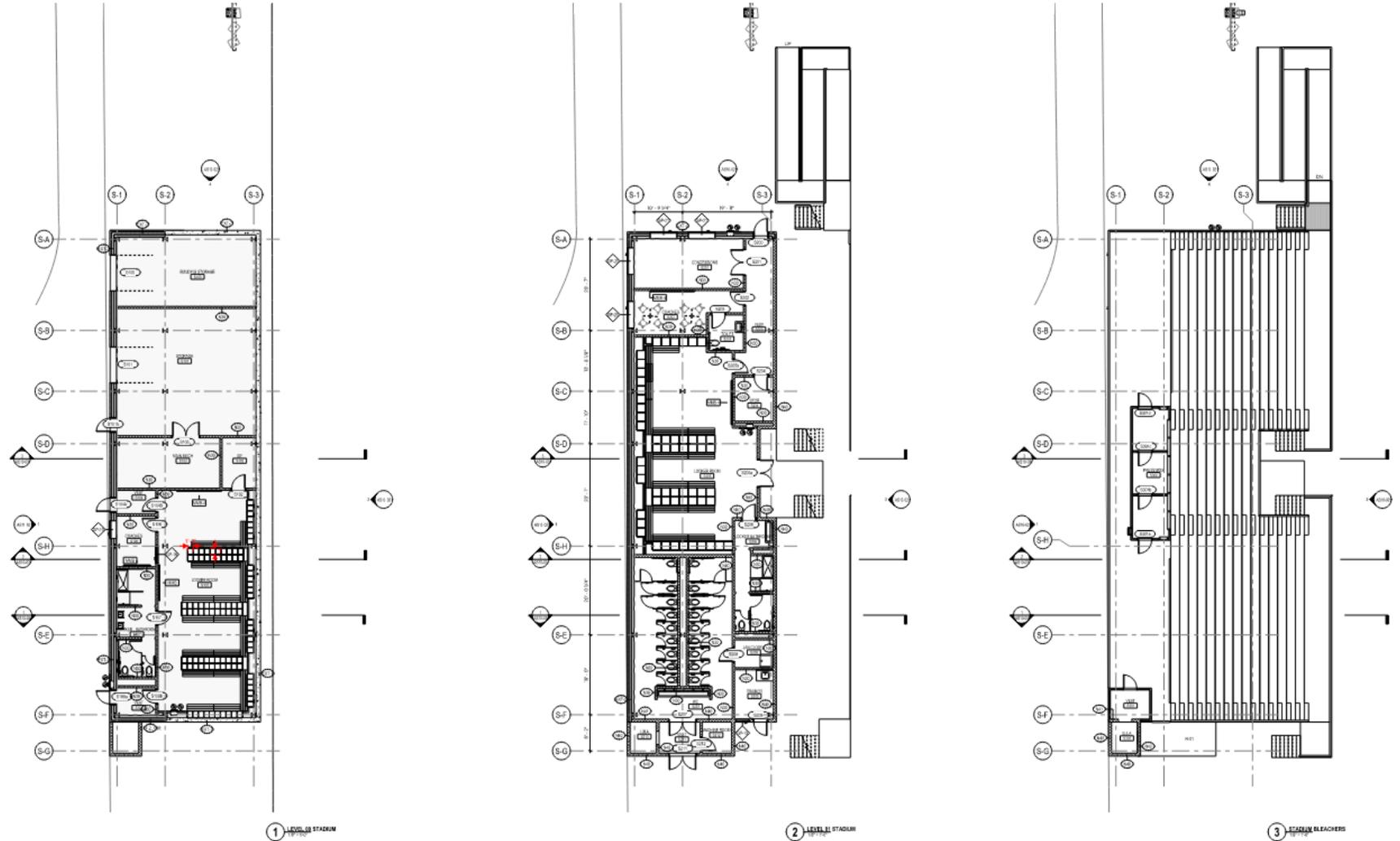
VE Amount: \$XXX,XXX

CL-54b – Eliminate Press Box

VE Amount: \$XXX,XXX

CL-54c – Eliminate Concessions Building

VE Amount: \$XXX,XXX



Value Engineering Items

CL-59 – Pre-K Playground: Replace rubber safety surface with engineered wood fiber (combination of accessible paths and wood fiber)

VE Amount: \$196,088



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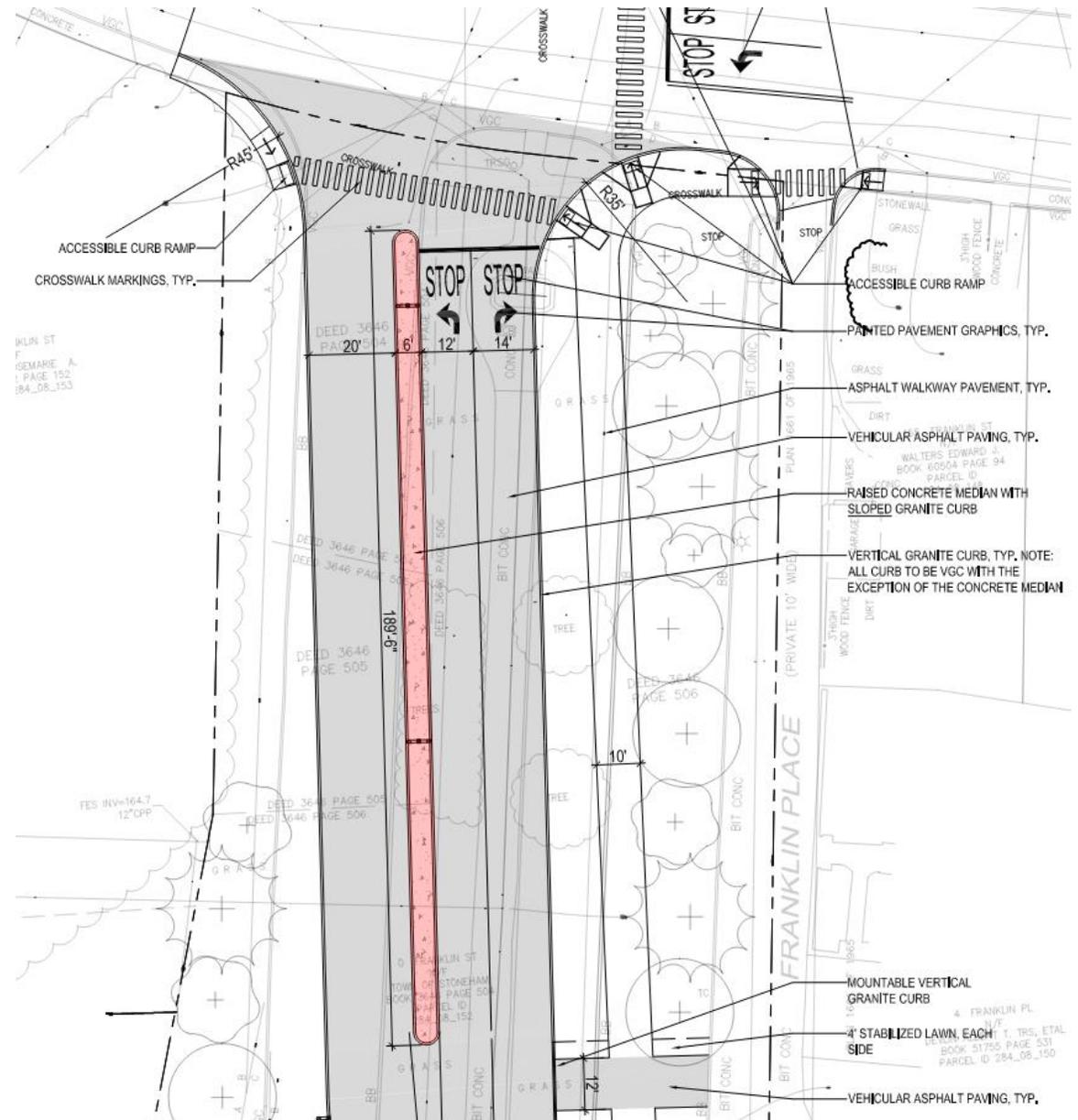
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Value Engineering Items

CL-60 – Change raised concrete median with granite curbing to asphalt median with precast curbing at Entry Drive

VE Amount: \$14,041



Value Engineering Items

CL-61a – Reduce trees and planting scope by 50%

VE Amount: \$129,075

CL-61b – Reduce trees and planting scope by 25%

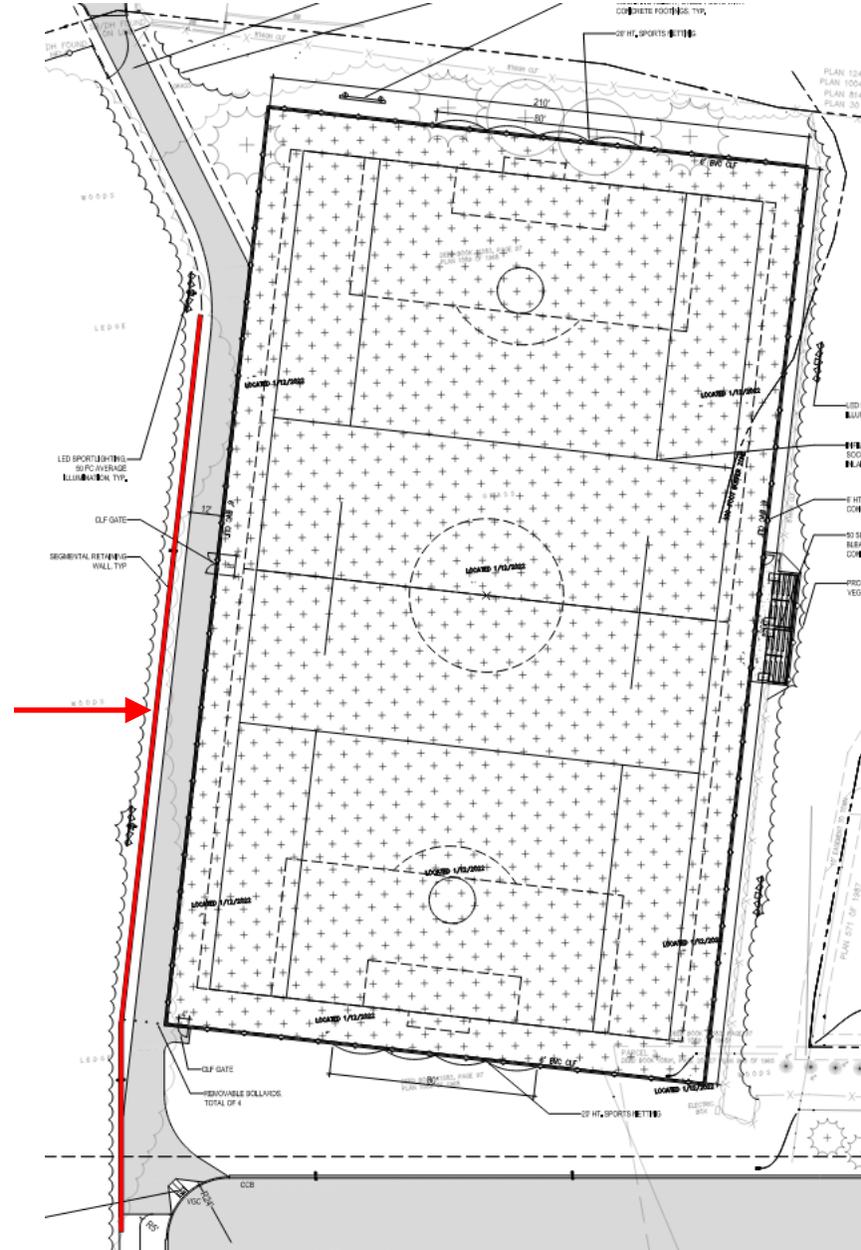
VE Amount: \$64,537

Value Engineering Items

CL-62 – Reduce width of North Soccer Field enough to eliminate Retaining Wall

VE Amount: \$251,314

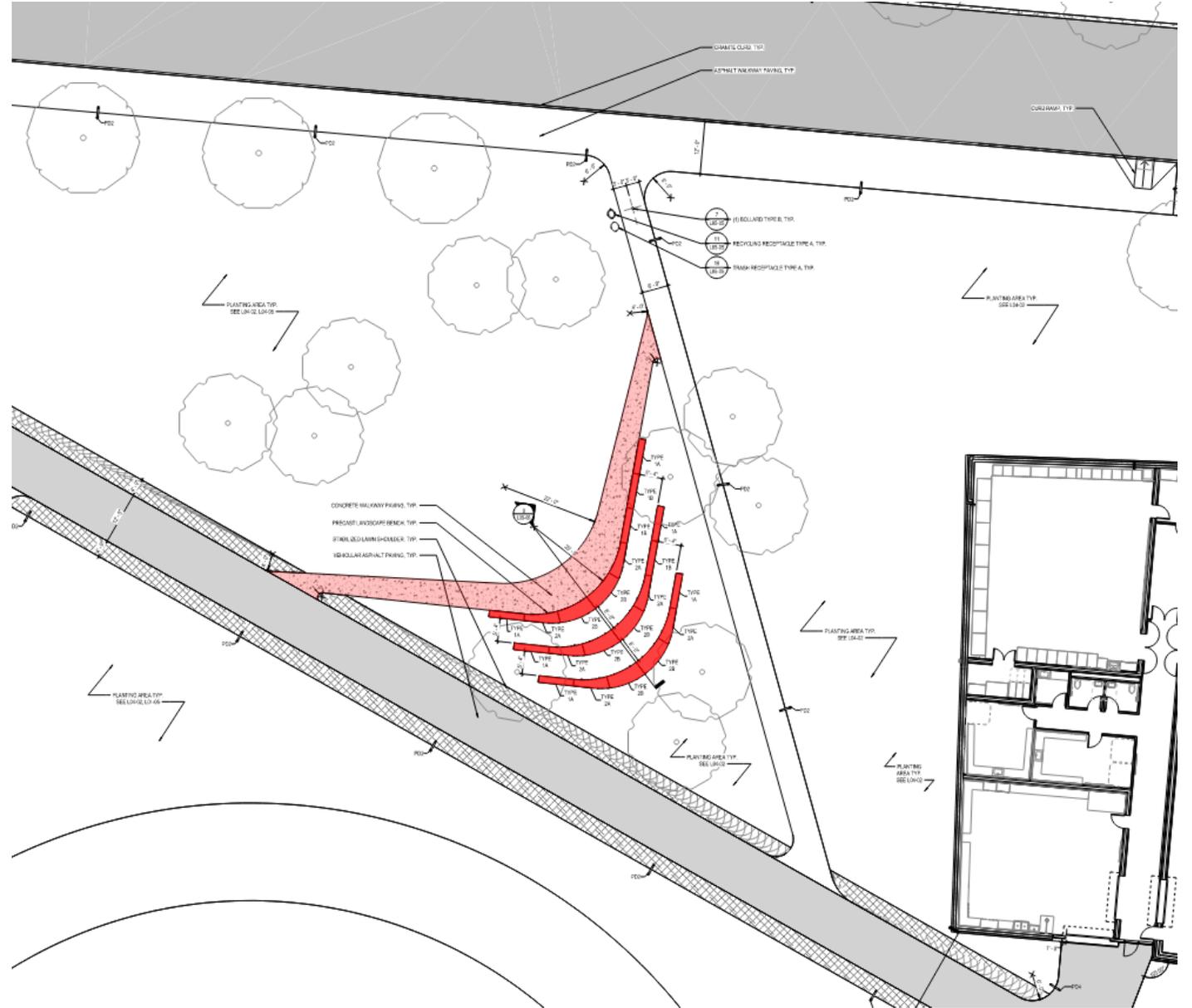
Note: Currently have 190 ft wide (63.3 yards) field w/ 10 ft run-off around perimeter; Would need to reduce field width by 10 ft down to 180 ft wide



Value Engineering Items

CL-63 – Amphitheater:
Eliminate precast benches
and sidewalk at
Amphitheater & grade
grass as a uniform hill

VE Amount: \$235,027



Value Engineering Items

CL-64 – Eliminate all 3 precast concrete benches at Front Entry Plaza

VE Amount: \$150,009



Value Engineering Items

CL-67 – Eliminate
Mounded Planting Bed
at Front Entry Plaza;
Grade Level

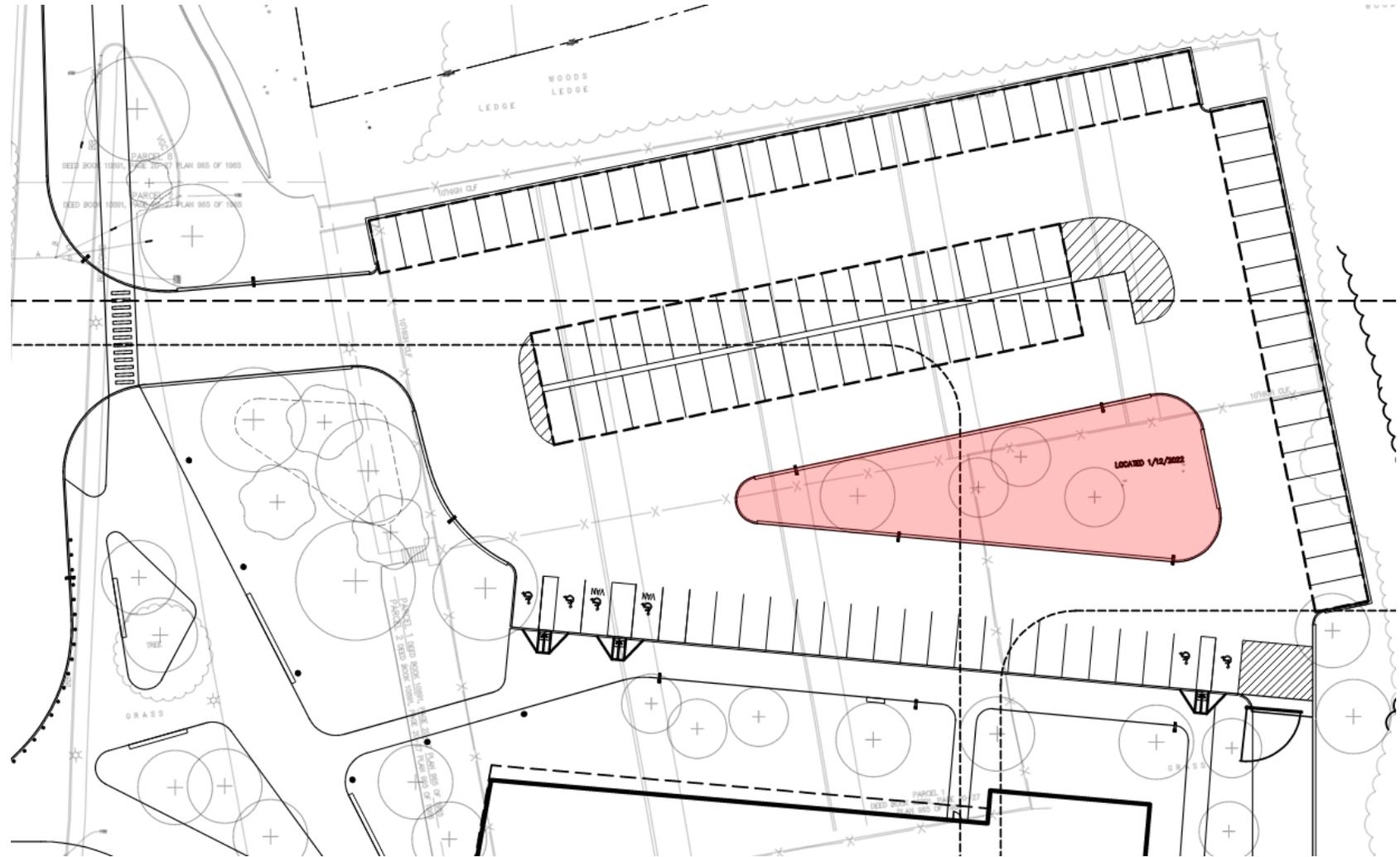
VE Amount: \$8,936



Value Engineering Items

CL-69 – Eliminate
Mounded Planting Bed
at East Parking Lot;
Grade Level

VE Amount: \$3,072



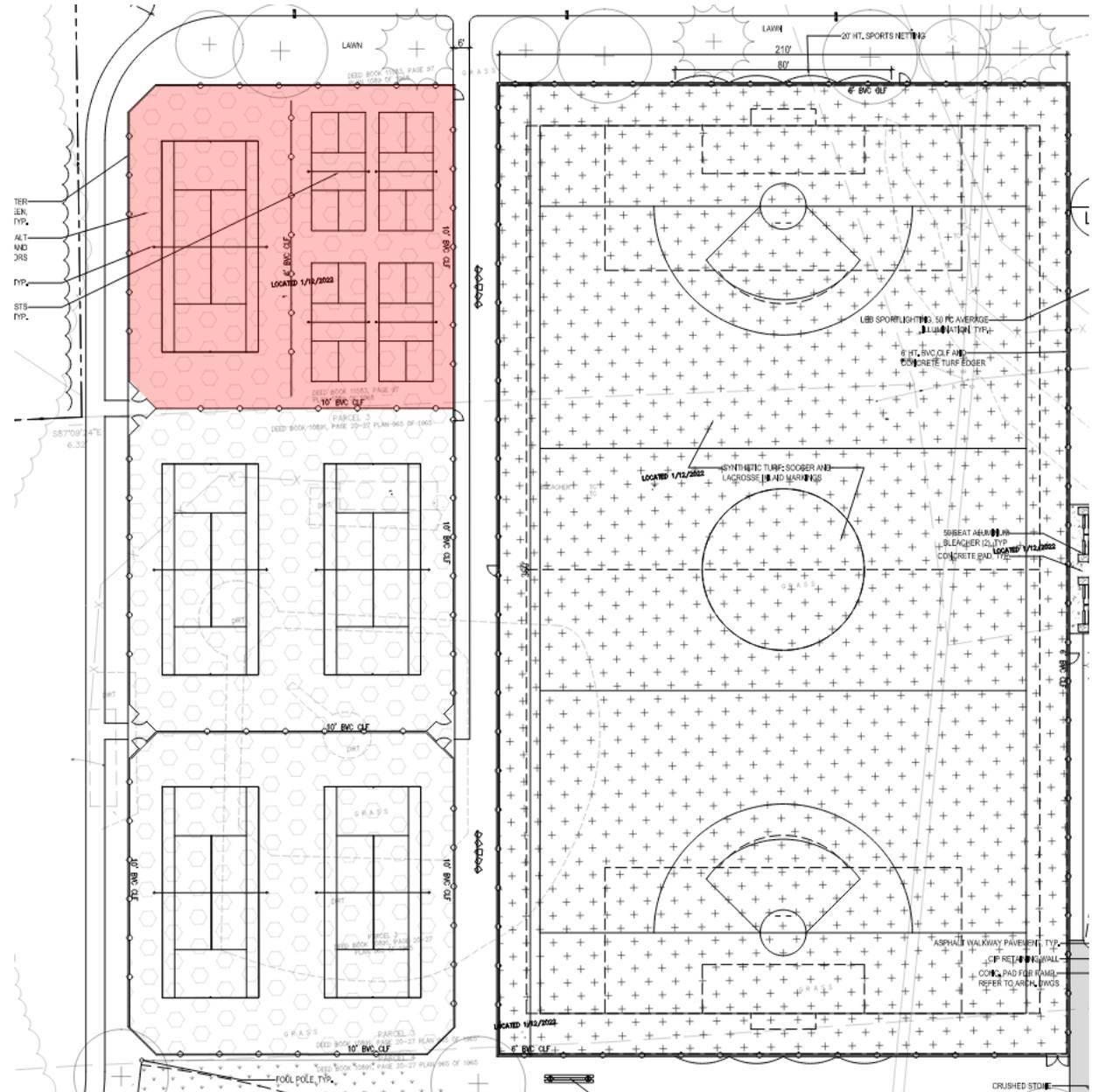
Value Engineering Items

CL-71a – Eliminate pickleball courts and one tennis court

VE Amount: \$128,374

CL-71b – Eliminate 1 pickleball court

VE Amount: \$10,876



Value Engineering Items

CL-72 – Reduce 3” diameter trees to 2” diameter

VE Amount: \$XX,XXX

CL-75 – Reduce amount of rock removal required for NE parking area by eliminating parking spaces

VE Amount: \$30,987

CL-76 – Remove NW emergency access road and related infrastructure; Replace with walking path. Use Boxwood Road for secondary emergency site access

VE Amount: \$XX,XXX

CL-77 – Utilize existing entry drive, island and traffic signals/configuration

VE Amount: \$XX,XXX

Value Engineering Items

CL-78 – Reduce Geothermal Well count from 60 to a total of 48

VE Amount: \$611,530

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Value Engineering Items Equipment

Building Committee Meeting

Value Engineering Items

EQ-01 – Replace fixed theatrical LED fixtures with moving fixtures

VE Amount: \$23,270

DD Budget

(50) 4-color fixed LED spotlights



VE Proposal

(15) Moving LED spotlights w/
CMY color mixing

(20) 4-color fixed LED wash fixtures



(8) Moving LED wash fixtures w/
CMY color mixing

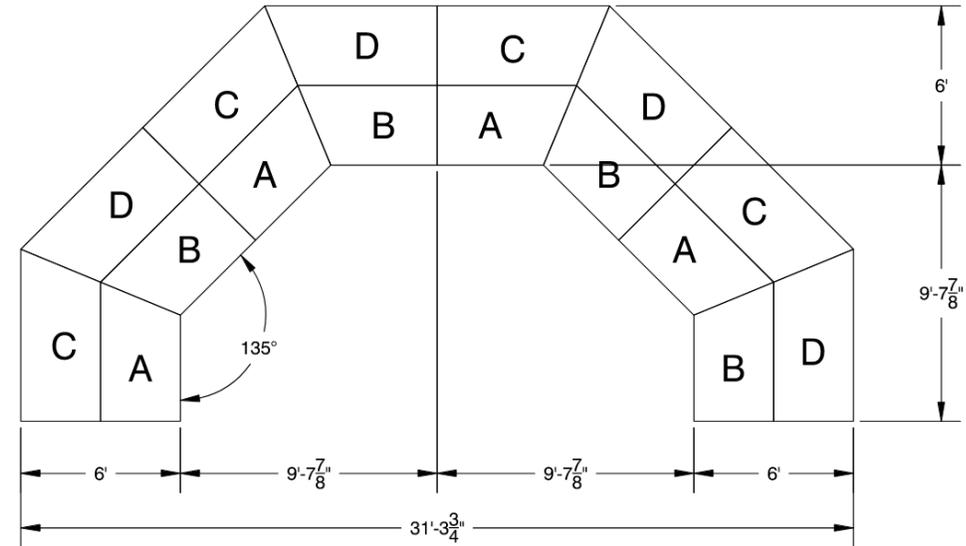
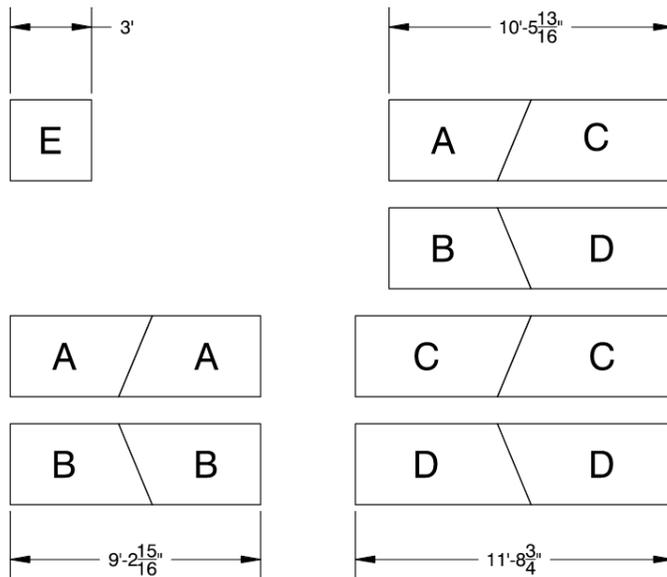
Note: The capabilities of the fixture inventories are roughly equivalent. This is because moving light fixtures can serve many different uses during one event or performance. The Theater Consultant has lit musicals with this inventory of moving lights.

Value Engineering Items

EQ-02 – Reduce amount of Black Box seating platforms by 1/2

VE Amount: \$48,285

Note: Depending on the configuration, the current amount of seating platforms provides elevated sightlines for 50 to 80 audience members. This VE item would reduce the audience capacity to about 25-40.

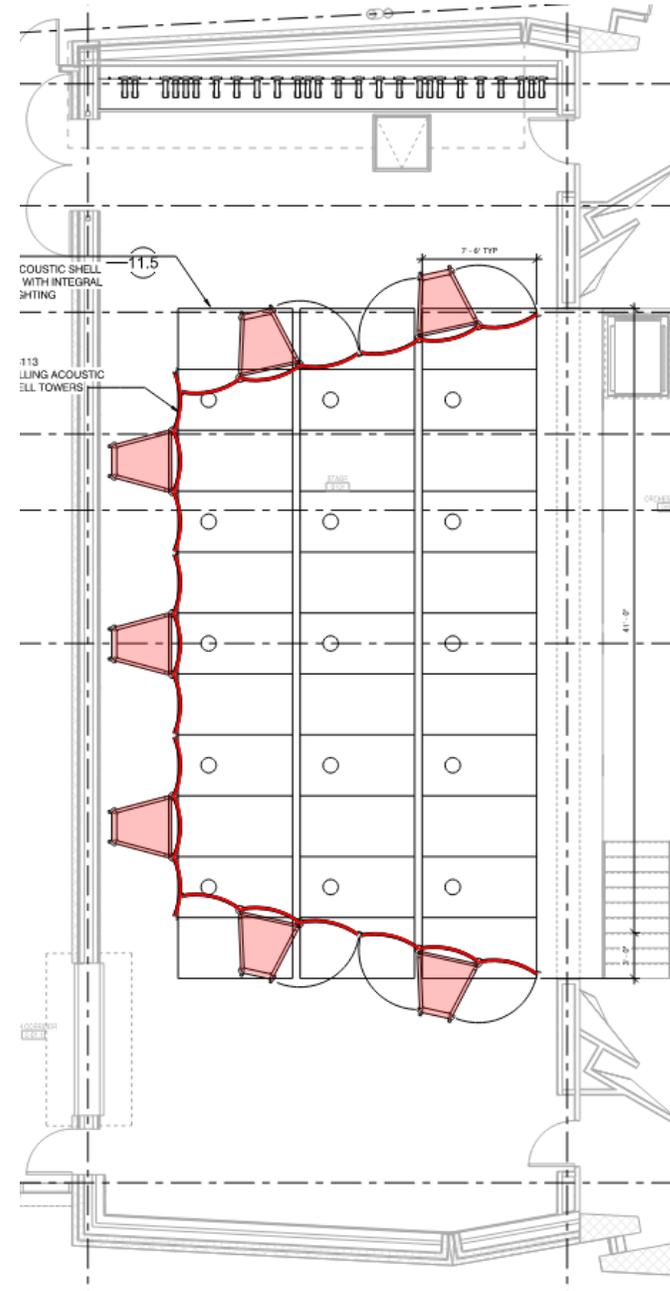


Value Engineering Items

EQ-03 – Eliminate the Auditorium Stage Acoustical Shell Towers

VE Amount: \$211,755

Note: This reduces the acoustic performance of chorus and instrumental ensembles.



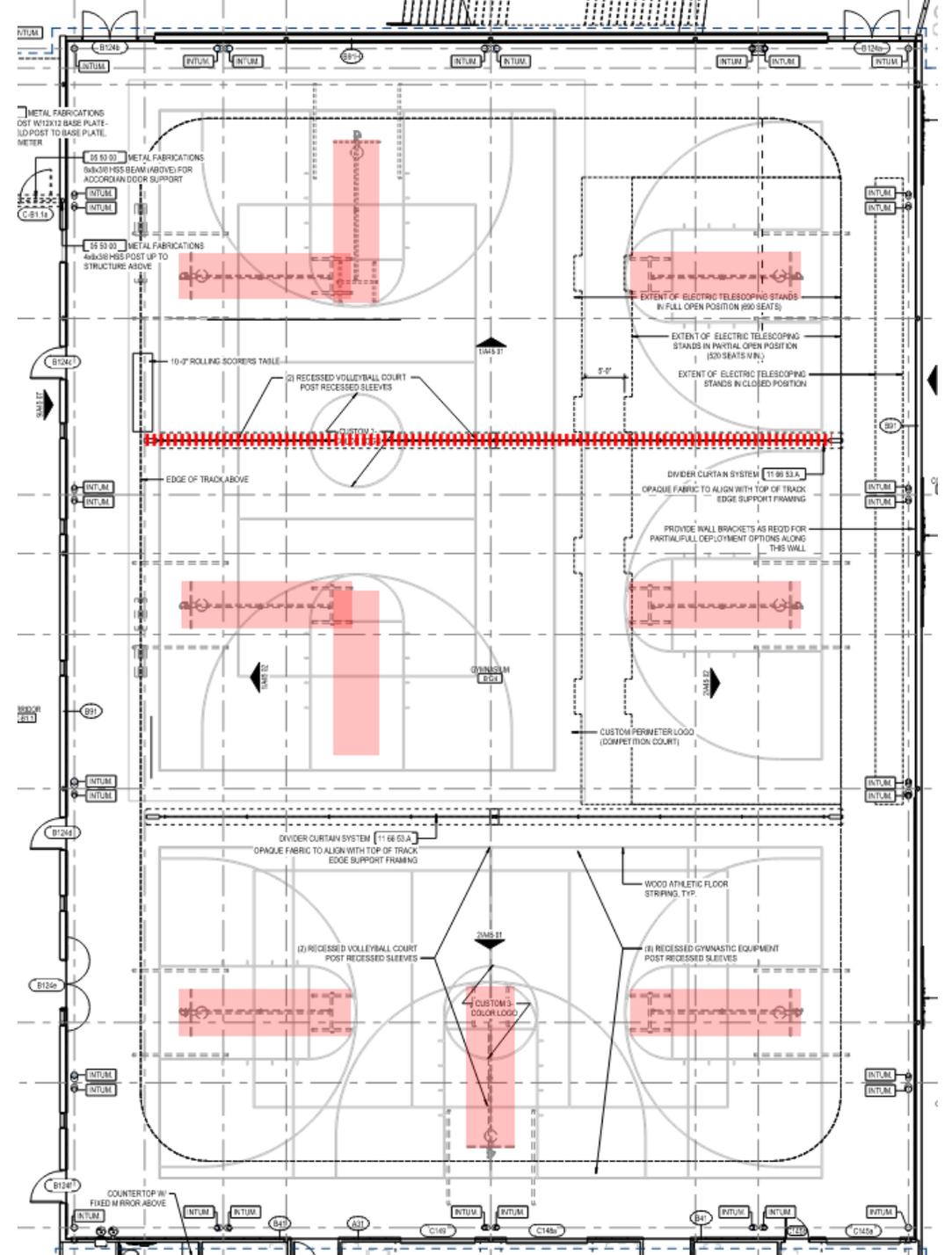
Value Engineering Items

EQ-04 – Eliminate (3) retractable basketball hoops from Gym

VE Amount: \$22,688

EQ-05 – Eliminate North Divider Curtain from Gym

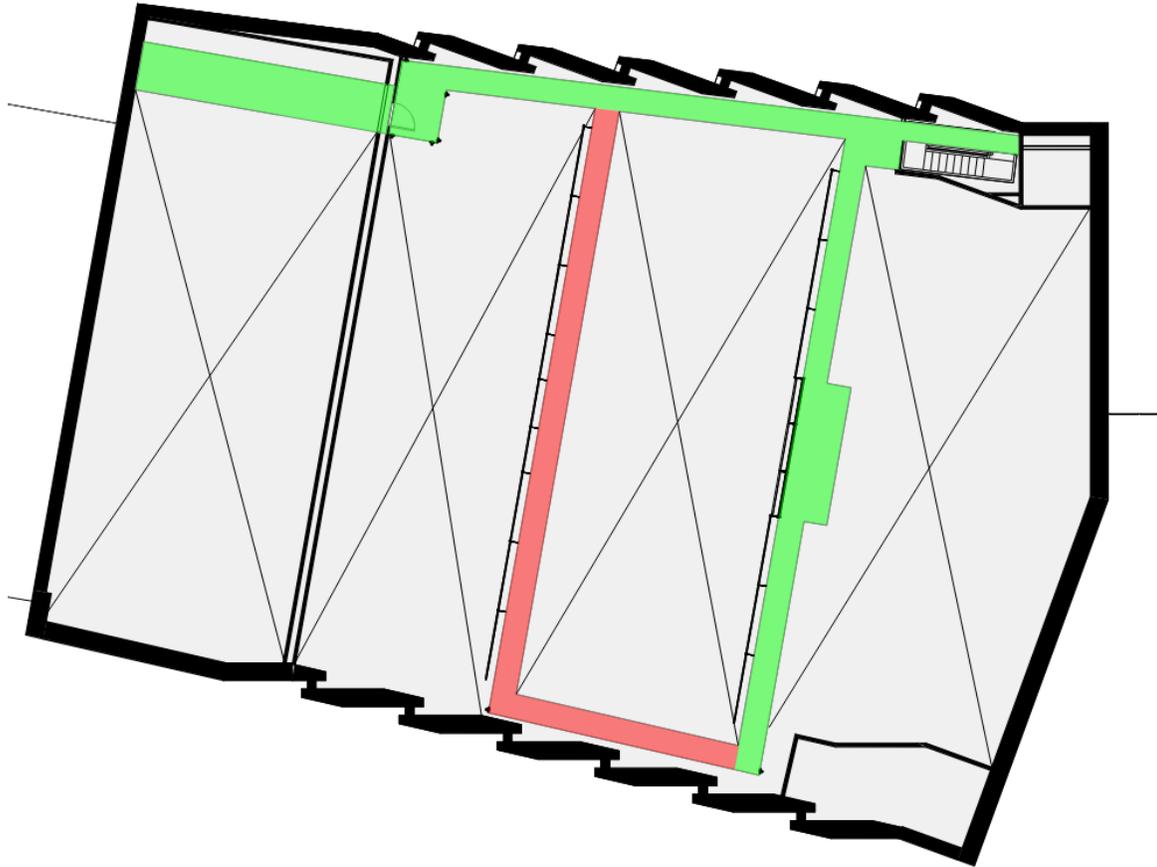
VE Amount: \$43,631



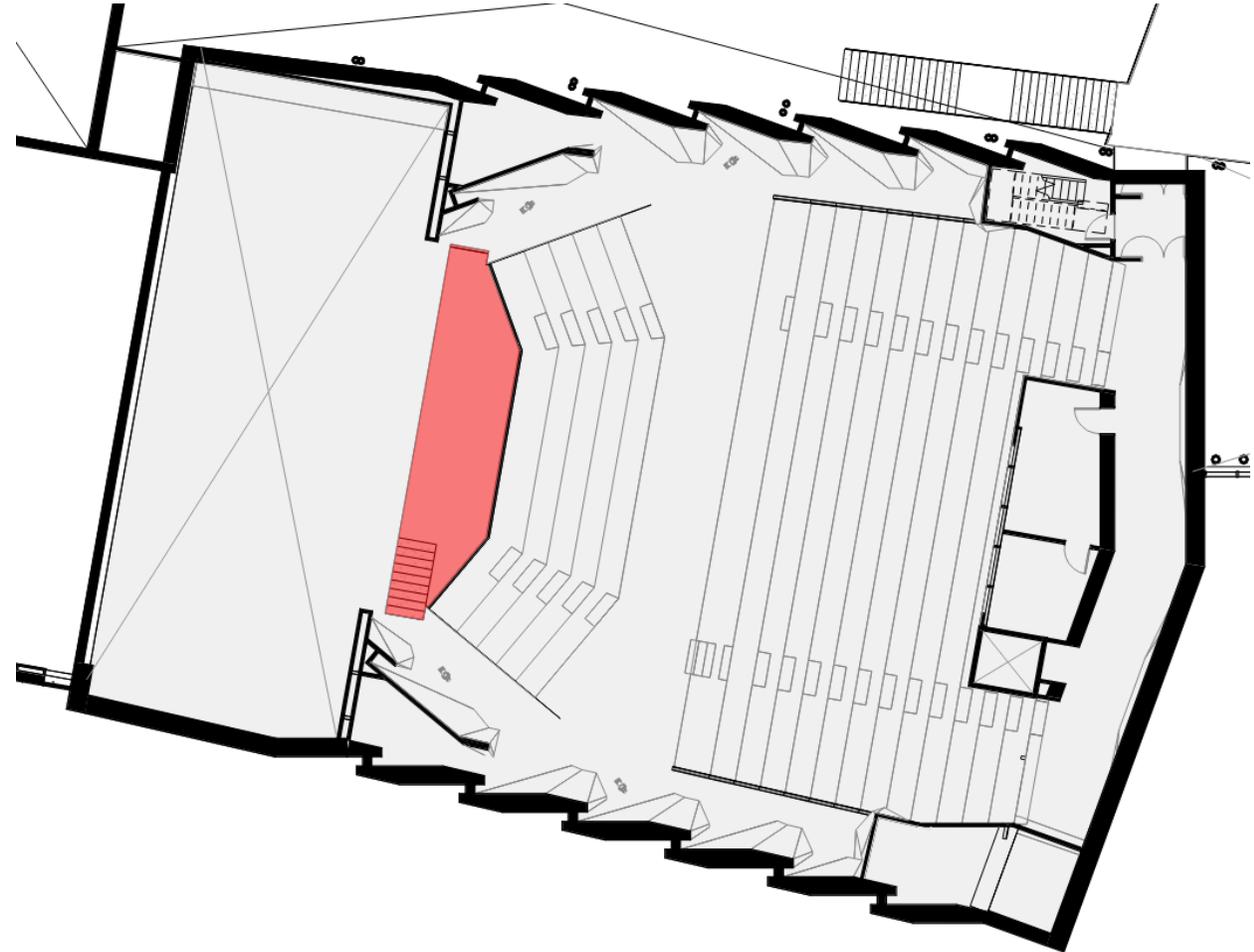
Value Engineering Items

EQ-06 – Eliminate west cross catwalk over Auditorium House

VE Amount: \$XX,XXX



Note: This VE item eliminates the ability to light the stage extension (elevated platform over the Orchestra Pit area)

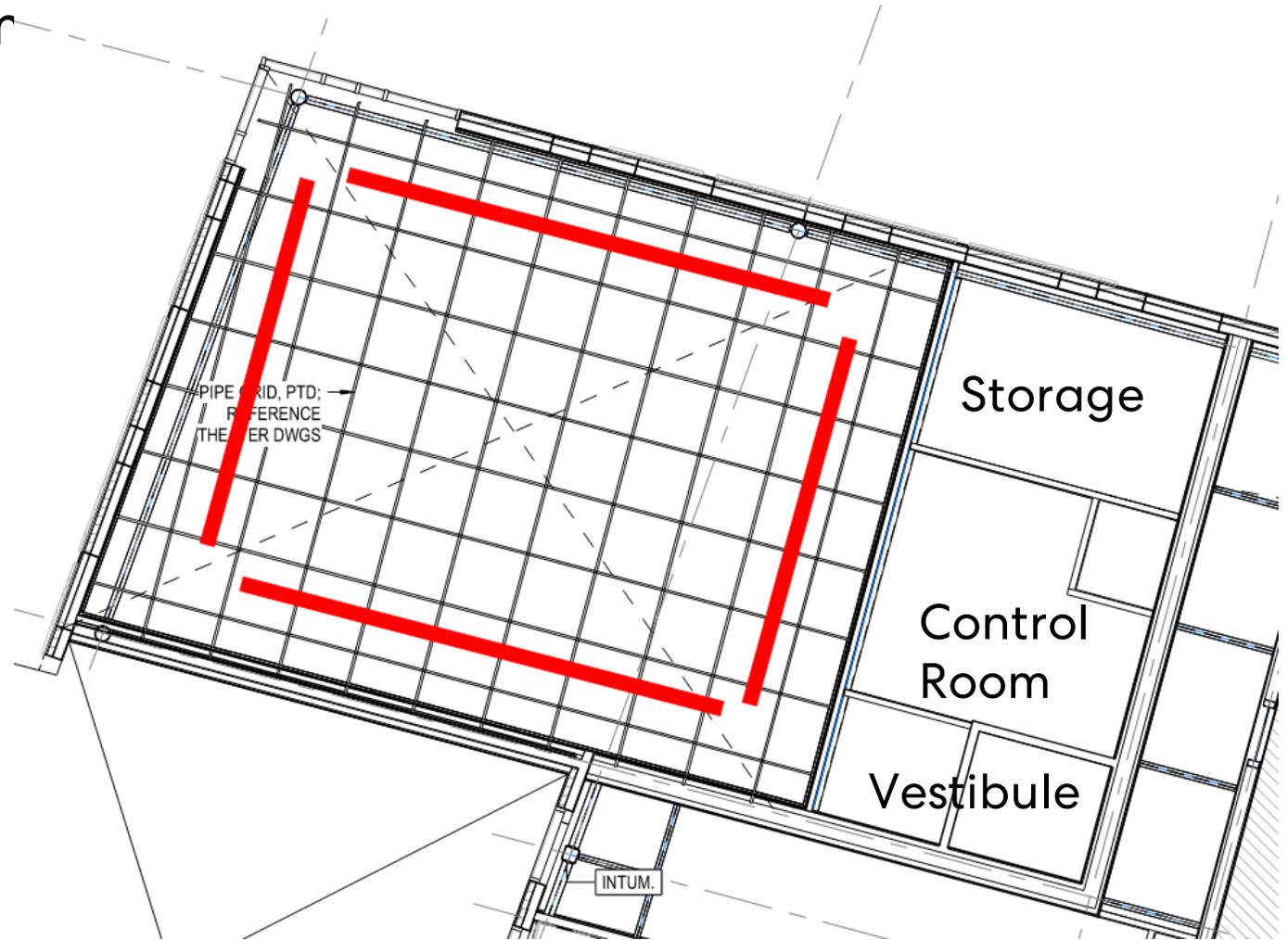


Value Engineering Items

EQ-07 – Eliminate curtains from Interdisciplinary Project & Performance Room

VE Amount: \$34,905

Note: This VE item eliminates the ability for performers to circulate around the performance area without being seen by the audience.



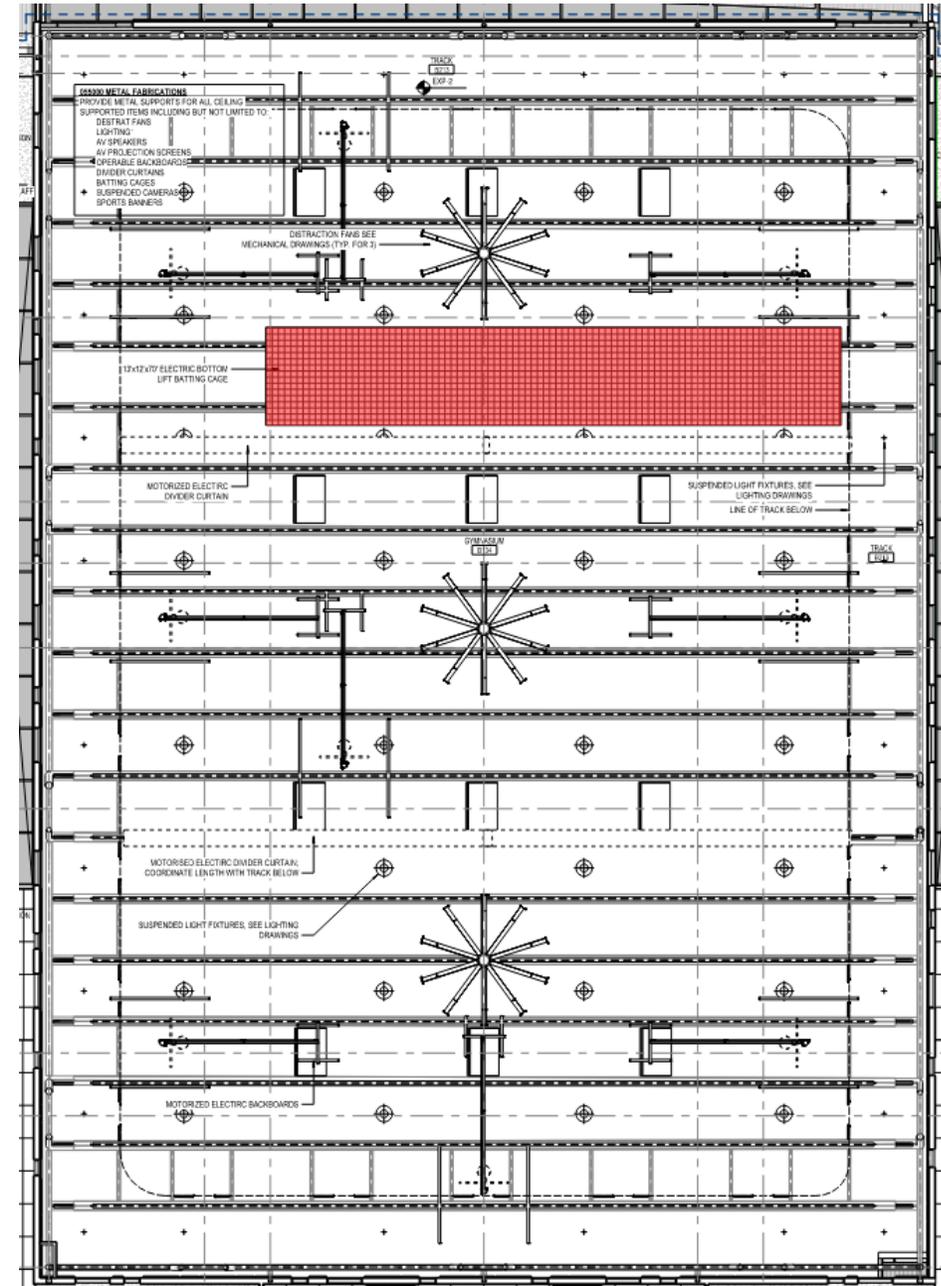
Value Engineering Items Multi-Disciplinary

Building Committee Meeting

Value Engineering Items

MD-03 – Eliminate Interior
Batting Cage from Gym

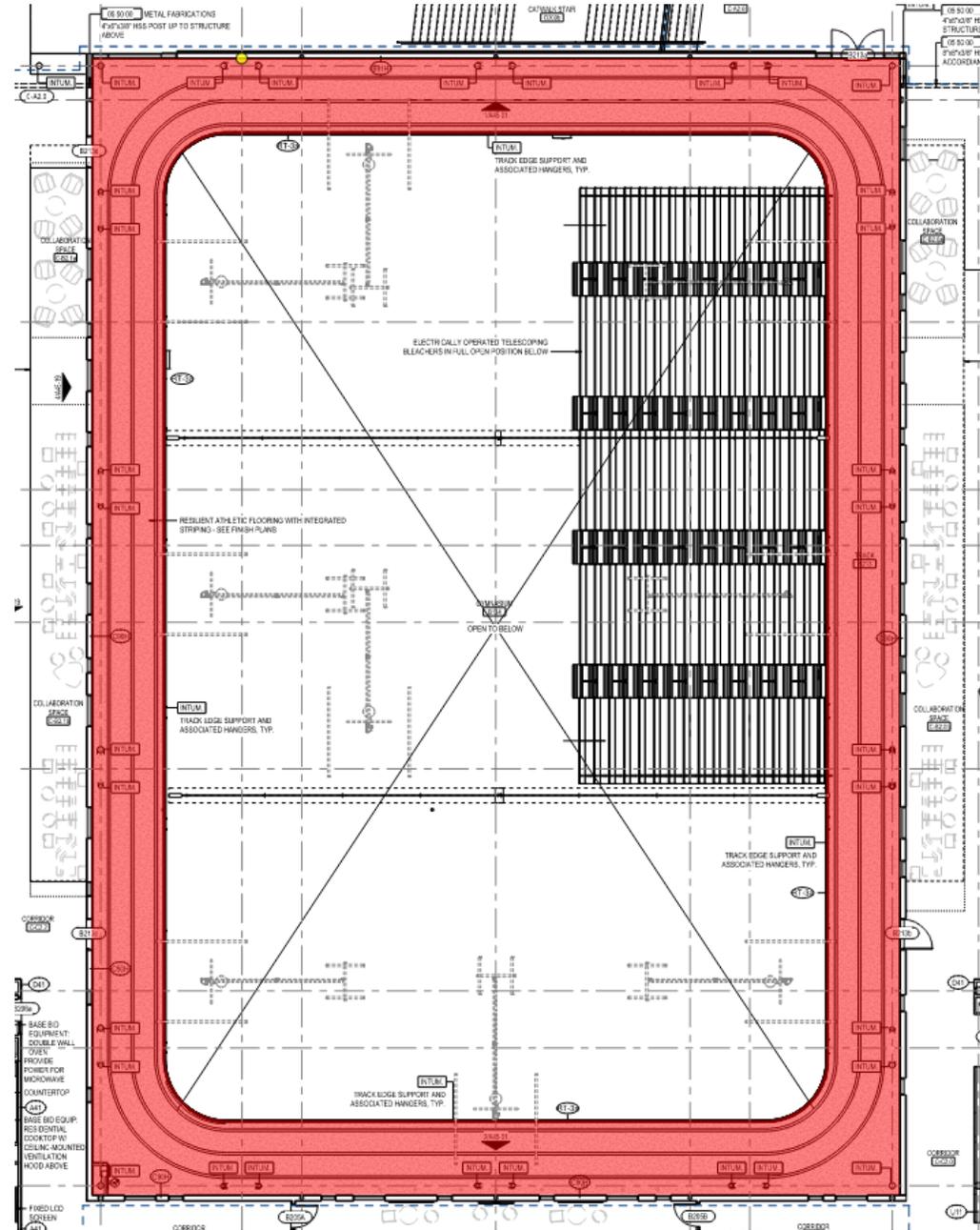
VE Amount: \$20,361



Value Engineering Items

MD-10 – Eliminate Track in Gym

VE Amount: **\$398,423**



Value Engineering Items

MD-21 – Site Conduit - Eliminate underground conduit from transformer to Electric Car Charging Stations; to be provided by Eversource

VE Amount: \$82,130

MD-23 – Programming – Provide shell space at Pre-K for future fit-out

VE Amount: \$1,709,923

MD-24 – Programming – Provide shell space at District Offices for future fit-out

VE Amount: \$460,509

MD-25 – Programming – Provide shell space at Concessions Building for future fit-out

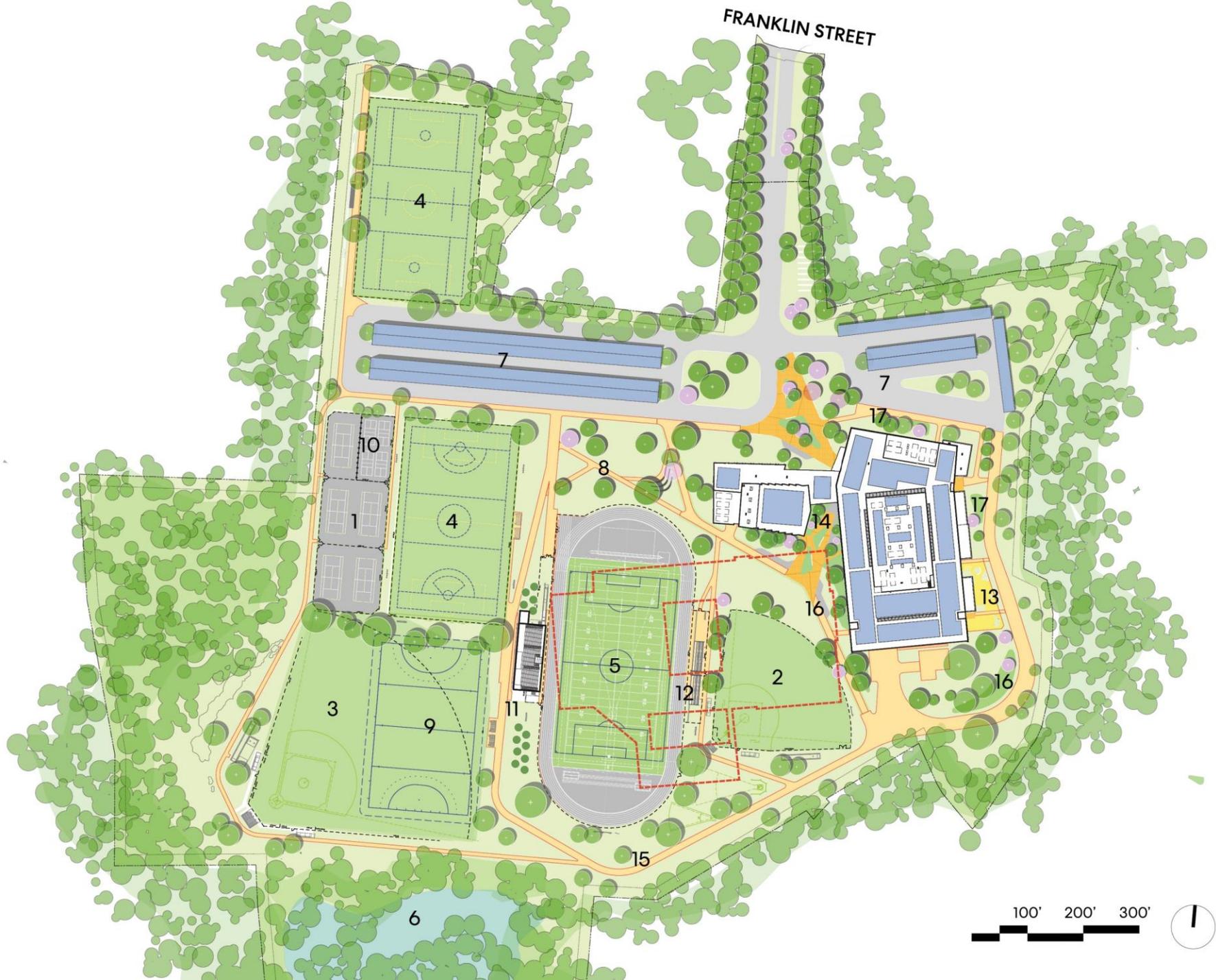
VE Amount: \$XXX,XXX

Reference Plans

Building Committee Meeting

Site Plan

- 1. TENNIS
- 2. SOFTBALL
- 3. BASEBALL
- 4. SOCCER
- 5. SPARTAN STADIUM
- 6. WETLAND
- 7. PARKING
- 8. AMPHITHEATER
- 9. FIELD HOCKEY
- 10. PICKLEBALL
- 11. HOME BLEACHERS
- 12. VISITOR BLEACHERS
- 13. PRE-K PLAY
- 14. SPARTAN PLAZA
- 15. LANDSCAPED PATH
- 16. OUTDOOR CLASSROOM
- 17. GEOTHERMAL WELL FIELD
- PV ARRAY
- EXISTING HIGH SCHOOL



Level 1

Music

Admin & D.O.

Auditorium

Spartan Place

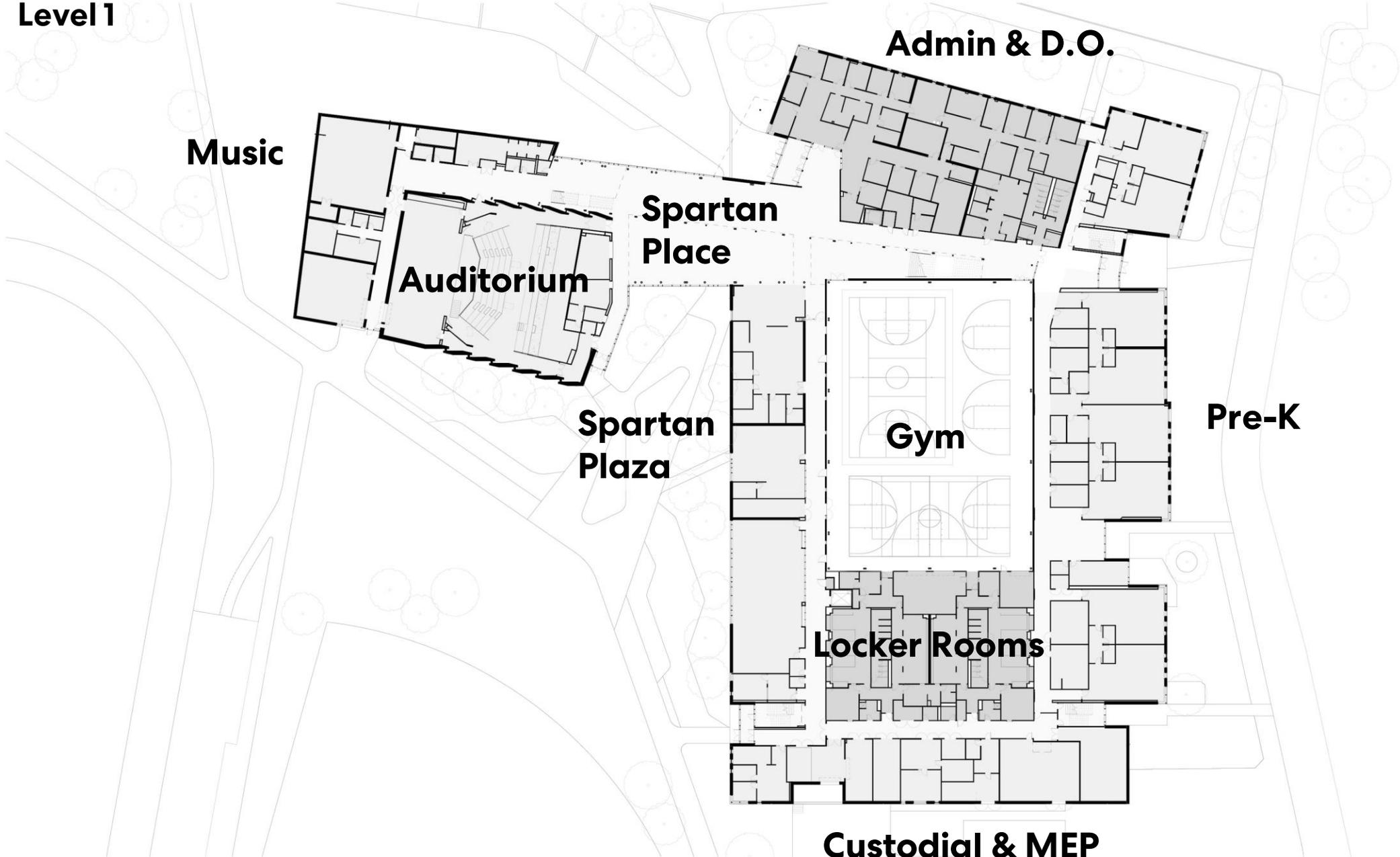
Gym

Pre-K

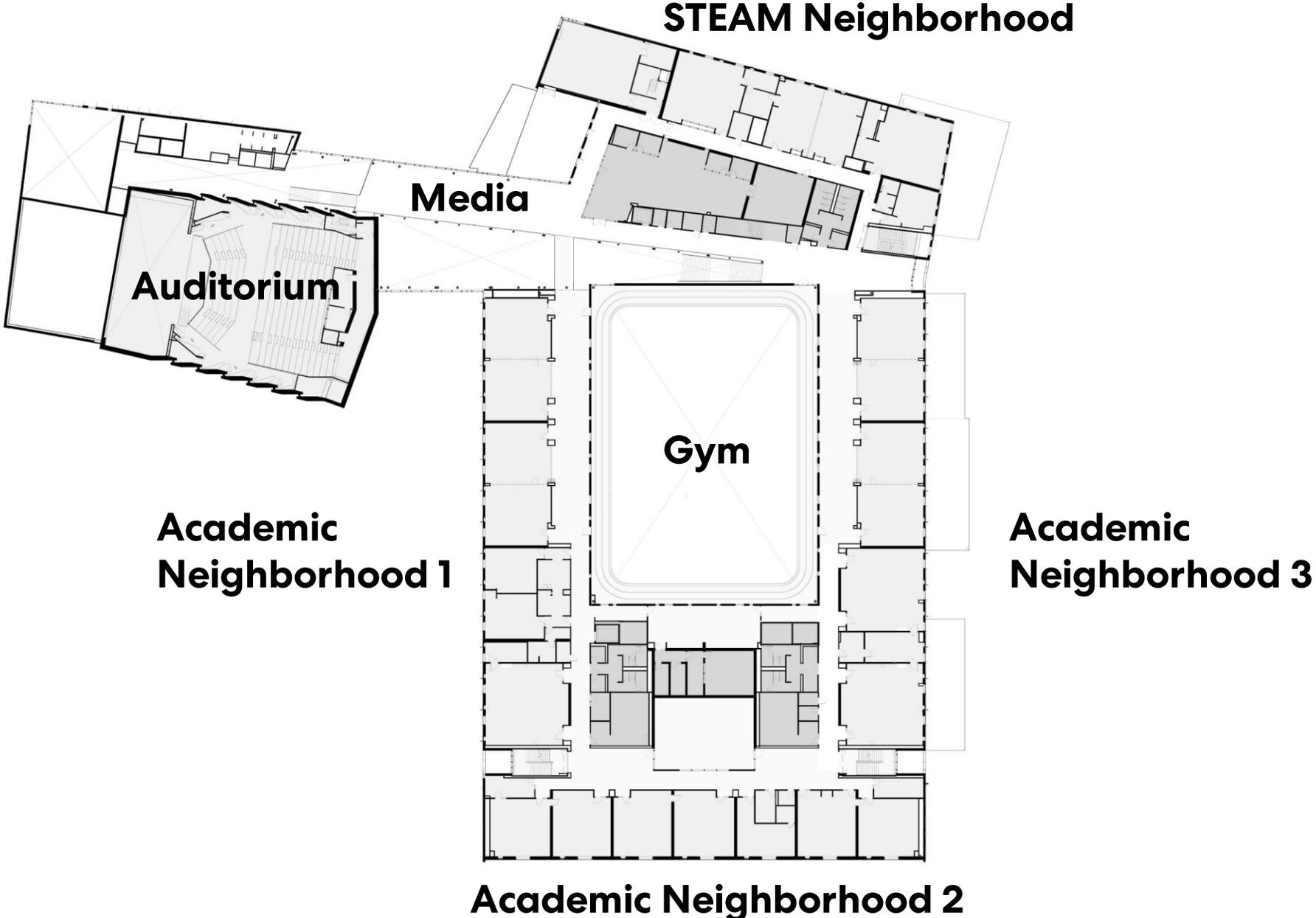
Spartan Plaza

Locker Rooms

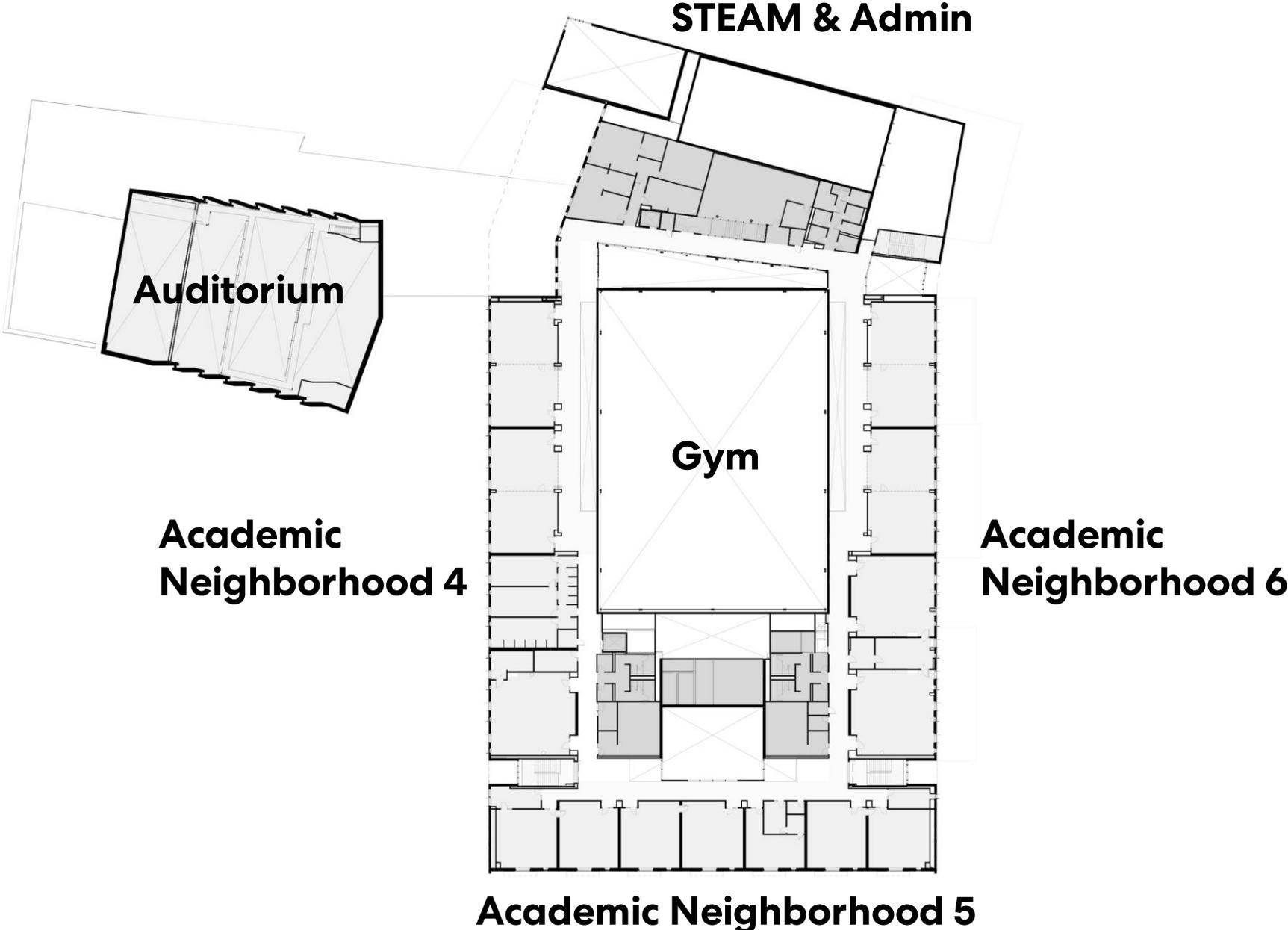
Custodial & MEP



Level 2



Level 3





THANK YOU!