

EXISTING HIGH SCHOOL AUDITORIUM

NEW HS/IS BUILDING MASSING

New Construction Existing IS & HS Renovations		2020							202	1							20	022	
TASK	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	API
	œŭ.					20.	81	×	84									Ø1	
Board Committee Meeting		3-Nov	1-Dec	4-Jan	2-Feb	2-Mar	30-Mar	4-May	1-Jun	N/A	N/A								
School Board Meeting		12-Nov			11-Feb			C. C. C. C. C. C. C.		N/A	N/A								
School Board Meeting		12-1404	10-000	14-3011	11-160	TT-IVIGI	o-Abi	13-ividy	10-3411	IV/A	14/15								
Civil / Land Development					n =														je .
Survey Site							0	21										3	ĺ
Site Analysis																			
Schematic Site Design																			
Developed Site Design				- 0			0)		9						- 0				
Construction Document																			
construction bocument						10							-				3		
Schematic Design		SD's			19-Feb		es.												
Program Verification			15-Dec	13-Jan			9	•										8	
Student / Staff / Leadership Design Collab.															7				
Preliminary Floor Plans / Elevations																			
Preliminary MEP Design					00		Ď	-											i.e
Probable cost of construction								_	2 - 2									3	
				_	W			-				9		-					
Community Meeting	-	-		-	2000		×.	_							-				
Board Presentations	_			5-Jan	1-Feb	de la constant de la		-											No.
							· ·												
Design Development:						DD's			29-Jun										
Structural Design								_											
Develop MEP Design																			
Develop Kitchen Desgin			6		6							6		6		6			
Develop Interior Design - Teacher / Staff						1													
Probable Cost of Construction						i.		•											Q.
Community Meeting													2						
Board Presentation			7	100		2-Mar	6-Apr	4-May	1-Jun									13	
Finalize Code Review								•			- 4	-							
Act 34 Hearing															. 9				
20.00 CORO CORO CORO CORO CORO CORO CORO CO												Z.							
Construction Documents										CD's				19-Nov					
Finalize Civil / Landscape Design																			
Finalize Interior Design																			
Finalize Structural Design				- 1			0	-											
Finalize Mechanical Selections																			
Finalize Major Electrical Elements				- 0				100											
Finalize Major Plumbing Elements								-			*								
Finalize Major Fire Protection Elements						-	Š	-					1 1						i i
Finalize Major Fire Protection Elements Finalize Interior Elevations				-			×		-					-	-				
Board Presentation	8								3	6-Jul	3-Aug	7-Sep	5-Oct	2-Nov					
				- 5			8 11	-		p-Jul	3-Aug	/-Sep	5-Uct	Z-NOV					
Finalize Specifications				-				-					-				i.	2	
Bidding / Construction				-				-			1				BIDDING	/ CONSTR	UCTION		
Bidding / Post Bidding	Y							1								27/2022	211014		
Construction - New IS / HS						1	Š	- :							0.0 1/1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	THROUGH	SUMMER 2	2024
Construction - Existing IS / HS				-				-	-					-	-	-	TINOUGH	JOIVINER 2	2024
CONSTRUCTION - EXISTING 13 / 113			_				di .	_						-		-			202

NEW IS / HS COMPLETION SUMMER 2024

MILESTONES

- PROGRAMMING
 - JANUARY 2021
- SCHEMATIC DESIGN
 - FEBRUARY 2021
- DESIGN DEVELOPMENT
 - JUNE / JULY 2021
- CONSTRUCTION DOC'S
 - NOVEMBER 2021
- BIDDING
 - **JANUARY 2022**
- PHASE 1 CONSTRUCTION
 - SUMMER 2024
- PHASE 2 CONSTRUCTION
 - SUMMER 2025

MEETING UPDATES

• SINCE LAST BOARD COMMITTEE MEETING:

•	4/21/2021	EDUCATOR MEETING - UPDAT	ES BASED ON INPUT
---	-----------	--------------------------	-------------------

- AGRICULTURAL
- SCIENCE
- CORE
- STEM
- ART
- 4/28/2021 CAMPUS FACILITY AND MAINTENANCE NEEDS
- 5/12/2021 STEERING COMMITTEE
 - KITCHEN DESIGN KICKOFF
 - KITCHEN SURVEY OF EXISTING IS AND HS
 - MECHANICAL DESIGN KICKOFF



SCOPE OF RENO.

MAINTAIN THE FOLLOWING

- SEATING WHERE POSSIBLE
- ACOUSTIC TREATMENT
- **CEILING SYSTEM**
- BAND ROOM WITH ASSOCIATED STORAGE (LIGHT RENO.)
- AUDIO SYSTEM

CODE UPGRADES

- RIGGING W/ ANNUAL INSPECTIONS
- UPGRADES FOR ADA ACCESS: STAGE
- RESTROOM REPLACEMENT

- INFRASTRUCTURE

- NEW MECHANICAL SYSTEM SERVING AUDITORIUM
- NEW ELECTRICAL SYSTEM SERVING AUDITORIUM
- NEW LIGHTING AND LIGHTING CONTROLS
- LOW VOLTAGE SYSTEMS FIRE ALARM, INTERCOM, SECURITY

NOT ADDRESSED

- NO SIDE STAGE
- LOBBY INSUFFICIENT
- FLY SPACE
- SPRINKLING



SITE IMPACTS

- MULTI PURPOSE FIELD
 - REORIENT TO AVOID CONFLICT WITH AUDITORIUM
- SITE CIRCULATION
 - MODIFY MAIN SITE ROAD
 - MODIFY SOME PARKING
 - MODIFY ACCESS
 AROUND RENOVATED
 HIGH SCHOOL

	COST RANGE						
	Unit Cost	Area / Cost	Unit Cost	Costs			
nstruction Cost	-//						
Renovations - Heavy @ Auditorium		7,850 sf					
Subtotal	\$ 156.00	\$1,224,600	\$ 168.00	\$1,318,800			
Renovations - Heavy @ Mechanical and	Restrooms	3,300 sf					
Subtotal	\$ 156.00	\$514,800	\$ 168.00	\$554,400			
Renovations - Light @ Band Room and Co	rridors	4,520 sf					
Subtotal	\$ 115.00	\$519,800	\$ 130.00	\$587,600			
Subtotal New Construction & Renovation		\$1,744,400		\$1,906,400			
Additional Related Construction Costs							
Construction Contingency	3%	\$52,332		\$57,192			
Estimating/Design Contingency	2%	\$34,888		\$38,128			
Escalation	1.5%	\$26,166		\$28,596			
Construction Testing & Inspection	2%	\$34,888		\$38,128			
Regulatory Agency Fees	0.50%	\$8,722		\$9,532			
		\$156,996	L	\$171,576			
Subtotal Construction and Related Costs	1	\$1,901,396)	\$2,077,976			
t Costs							
Professional Design Services							
Consulting Services, Moveable Equipment							
Printing & Financing							
Subtotal	11%	\$209,154	11%	\$228,577			
Construction Manager Fees	1.75%	\$33,274	2%	\$41,560			
timated Total Project Costs		\$2,143,824		\$2,348,11			

ESTIMATE OF PROBABLE COST

AREA OF HEAVY RENOVATION

- 11,150 SF
 - **AUDITORIUM**
 - MECHANICAL
 - RESTROOM

AREA OF LIGHT RENOVATION

- 3,300 SF
 - BAND
 - CORRIDORS

- CREDIT FOR DEMOLITION / ROOF REPLACEMENT

- 15,670 SF
 - CREDIT AND COST OF ROOF OFFSET EACH OTHER

- TOTAL PROBABLE COST

- **LOW \$2.14 MILLION**
- **HIGH \$2.35 MILLION**

ESTIMATE DEVELOPED USING CONSTRUCTION DATA GATHERED FROM PAST PROJECTS AND COMPARED WITH RECENT BIDDING INFORMATION.

MECHANICAL, PLUMBING AND ELECTRICAL ESTIMATES WERE PROVIDED BY MOORE ENGINEERING BASED ON SIMILAR DATA SETS.

MINIMIZE IMPACT ON AUDITORIUM

- AREA OF HEAVY RENOVATION
 - 11,150 SF
 - BUILDING REPAIRS ASSOCIATED WITH MECHANICAL, ELECTRICAL, AND PLUMBING
 - BUILDING SEPARATION / CODE COMPLIANCE
 - RIGGING REPLACEMENT
 - REDUCTION OF \$25 / SF
- TOTAL PROBABLE COST
 - LOW \$1.81 MILLION
 - **HIGH \$2.01 MILLION**
- MAJORITY OF RENOVATION COST IS
 MECHANICAL, ELECTRICAL, AND PLUMBING
 RELATED



Academic and Extracurricular Conferences (ex. TSA, FBLA, etc.)

- Auditorium typically used for large group sessions only (convocation, closing ceremony, etc.)
- Conference sessions then held in classrooms for breakout activities/seminars
- Conference requires need for proximity to a cafeteria

Musical Festivals

- Held in current auditorium during Mr. Williams' tenure size and seating became an issue – they stated we would not be able to host again with current auditorium
- If interested in hosting, we would need 900-1,000 seats in the new auditorium at a minimum
- Event rotates could be held at PV every 8-10 years if we are able to accommodate

Elementary Events

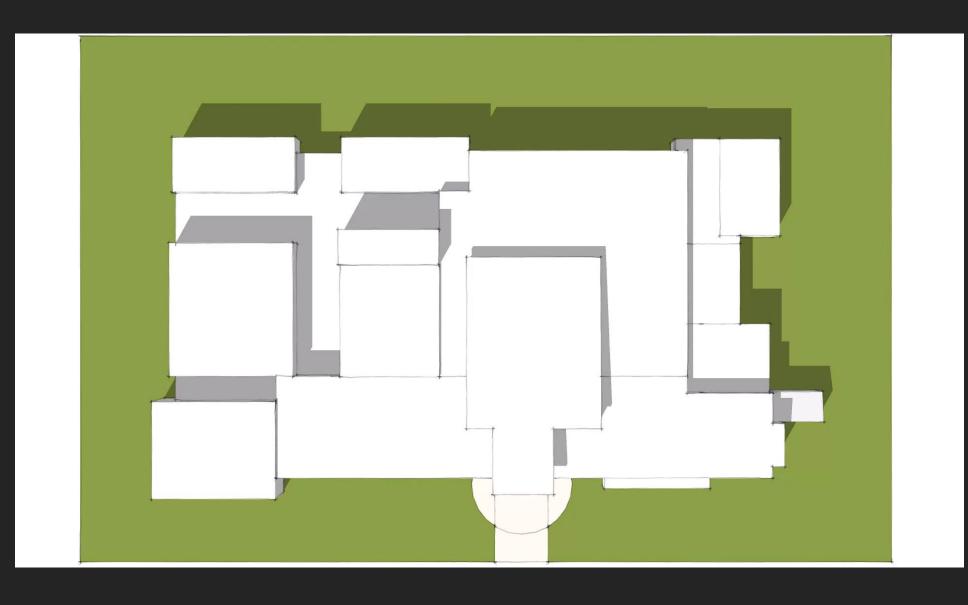
 Could be held in the current auditorium – however, concerns were expressed by elementary level about proximity for practices and busing. If only being used for performances, concerns expressed regarding that age group performing in a new environment they had not practiced in

Community Meetings

- Could be held in the current auditorium and/or new auditorium depending on need
- We currently receive 1-5 requests per year, typically for a dance recital or retirement home function

Community Theater Group

- The closest existing theater group is Cavod in New Holland they currently already have a facility they use for performances
- Issue with lack of fly space in current auditorium, as well as stage space
- Current auditorium could be used if a group is created locally and is willing to use the space with which we currently operate

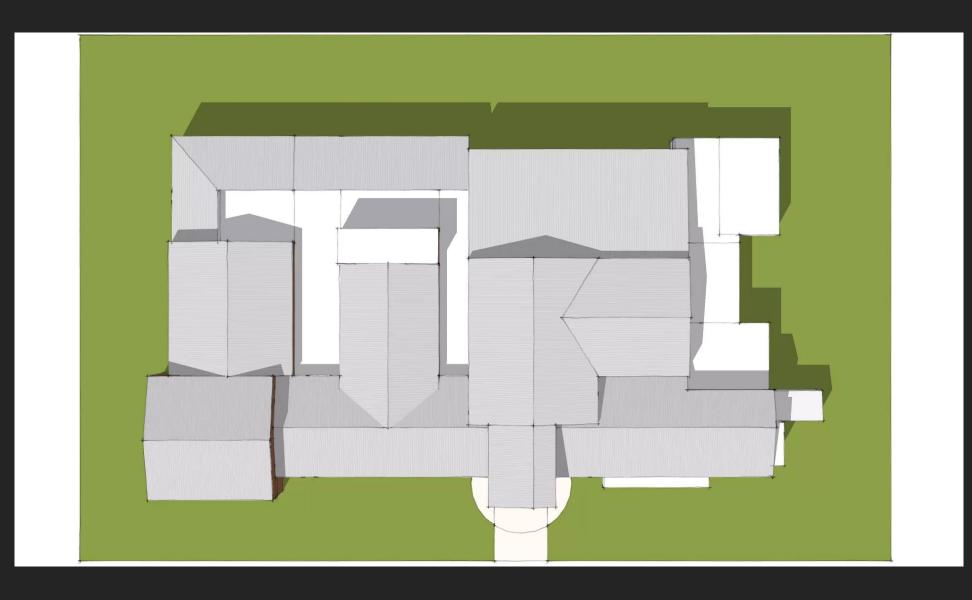


WHAT IS BUILDING MASSING?

- HIGH LEVEL DISCUSSION
- BUILDING VOLUMES
- 3D ADJACENCIES
- SHAPE OF THE ENVELOPE

WHAT IS NOT BUILDING MASSING?

- MATERIALS/ COLOR
- FENESTRATIONS
 (ALTHOUGH
 SOMETIMES
 CONSIDERED)



GABLED ROOF

- PEAKS IN THE MIDDLE
- BUILDING HEIGHTS TO MAKE EAVES ALIGN
- OVER-FRAMING IS AN ADDITIONAL EXPENSE
- JOINTS AT THE INTERSECTION OF EACH ROOF



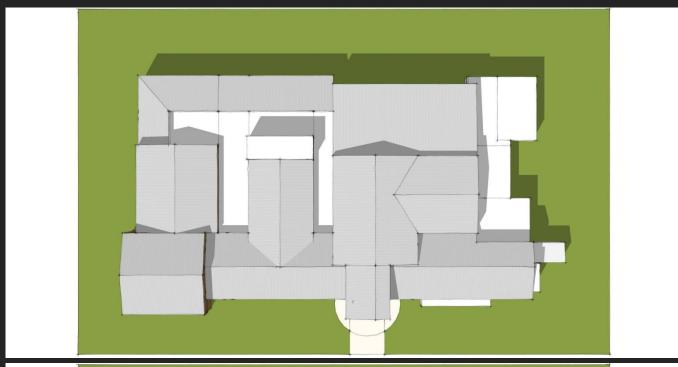
PITCHED ROOF

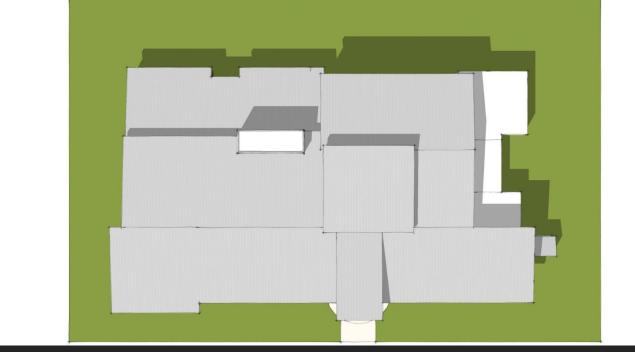
- SINGLE SLOPE
- MINIMIZE SEAMS / JOINTS / VALLEYS
- MODELED AS A 1:12 SLOPE



BUILDING COORDINATION

- END RESULT WILL BE AFFECTED BY THE BUILDING SYSTEMS
 - MECHANICAL
 - KITCHEN
- FENESTRATIONS AND NATURAL LIGHT
- LOCATION OF BUILDING ELEMENTS
 - PLANETARIUM
 - SOCIAL STAIR
 - MEDIA
- BOTH OPTIONS CAN
 ACCOMMODATE A VARIETY OF
 ROOFING MATERIALS
- HYBRID OF THESE OPTIONS









Crabtree, Rohrbaugh & Associates www.cra-architects.com