Coakley Middle Schools Norwood Public Schools

School Building Committee

April 12, 2021





Agenda

- Reviewed PDP Report
- Reviewed Educational Plan
- Reviewed Space Summary
- Voted to Submit PDP Report

- PDP & PSR update
- Cafetorium discussion
- Review Draft Site Plans
- Review Evaluation Criteria Matrix





CAFETERIA & AUDITORIUM = CAFETORIUM

CAFETORIUM

6 - 8 grade configuration

Student Dining = 3,650 SF stage = 1,600 SF

TOTAL = 5,250 SF (100% reimburseable) TOTAL = 7,718 GSF

5 - 8 grade configuration

Student Dining = 3,760 SF stage = 1,600 SF

TOTAL = 5,360 SF (100% reimburseable) TOTAL = 8,040 GSF

AUDITORIUM

6 - 8 grade configuration

400 seat auditorium = 4,500 SF stage = 1,600 SF

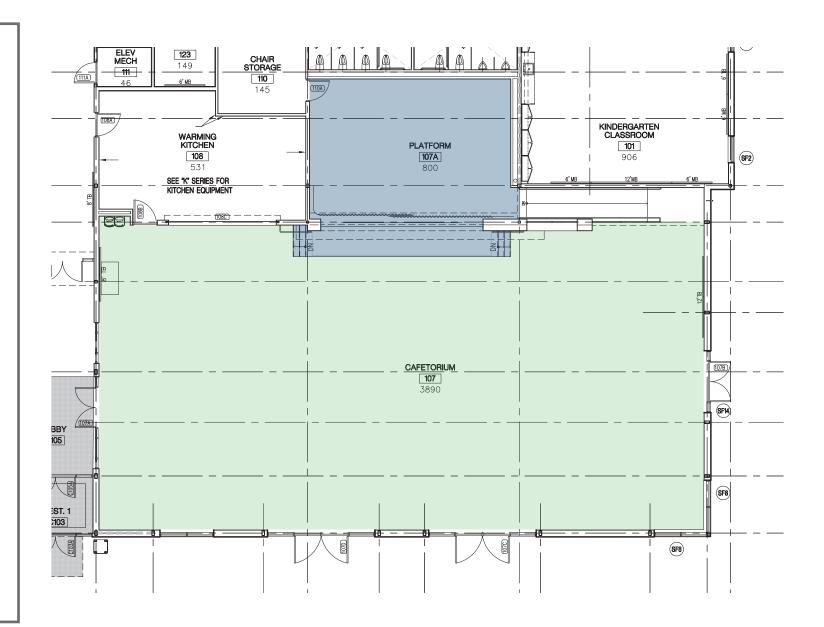
TOTAL = 6,100 SF (non-reimburseable)

TOTAL = 8,967 GSF

5 - 8 grade configuration

535 seat auditorium = 5,500 SF stage = 1,600 SF

TOTAL = 7,100 SF (non-reimburseable)
TOTAL = 10.650 GSF







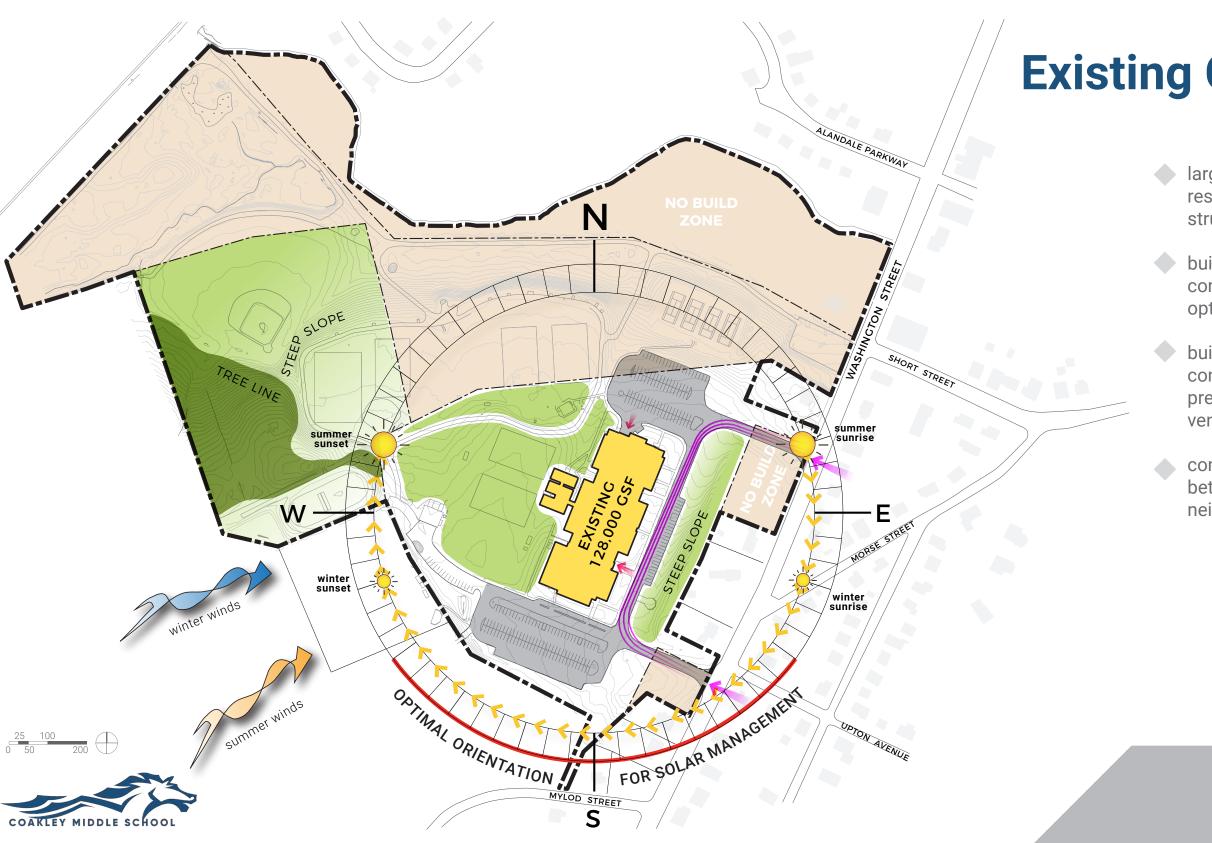






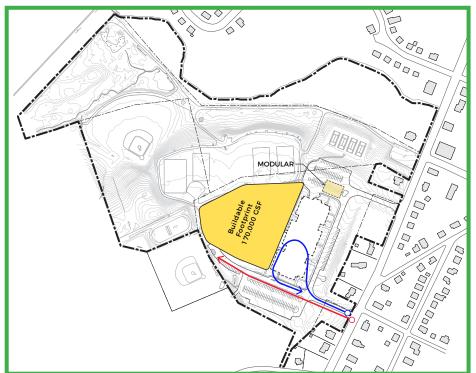






Existing Conditionssite analysis

- large areas of the site are restricted from having built structures added
- building orientation to consider solar orientation for optimal solar management
- building orientation to consider southwest prevailing winds for ventilation and open space
- consider all natural buffers between site and residential neighbors



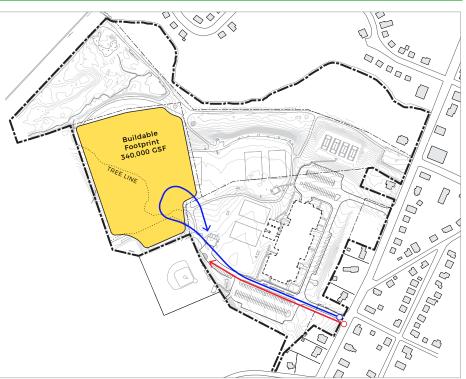
Back

170,000 GSF

uses the modular replacement to gain additional GSF

centrally located on site

2 practice fields would be offline during construction



Far Back

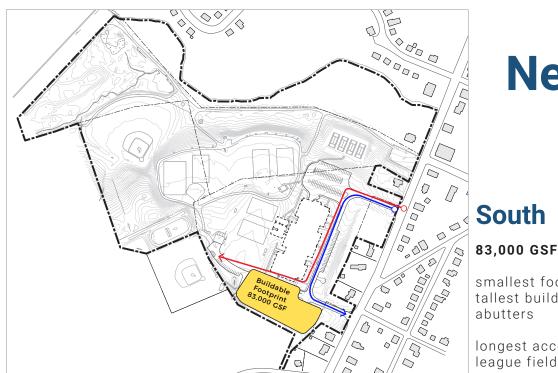
340,000 GSF

steep slopes

requires the removal of existing established trees

poor access through site pinch-point

2-3 structured fields would be offline during construction



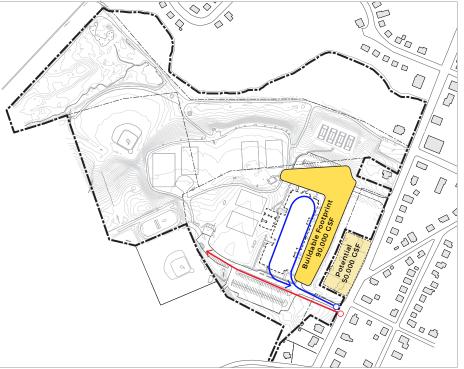
New Options buildable area

school access little league access

83,000 GSF

smallest footprint results in tallest building closest to abutters

longest access drive to little league field



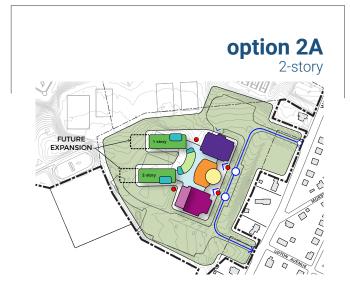
Front

90,000 GSF + 50,000 GSF = 140,000 GSF

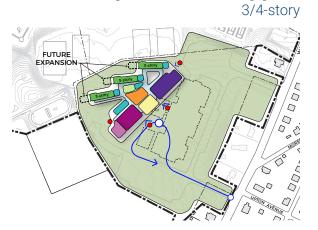
narrow lot with steep slopes results in long building and entry/circulation at back

project would incure added cost if 3 properties were purchased

ADD/RENO NEW

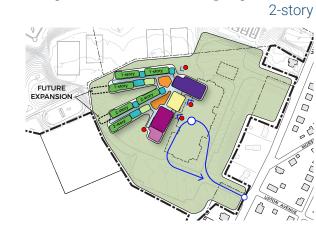


option 3A - stepped



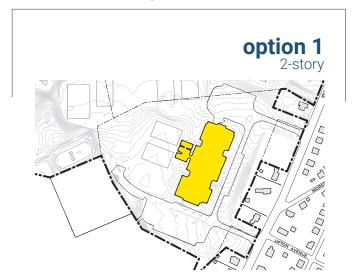
option 3B - 2 wings

2-story

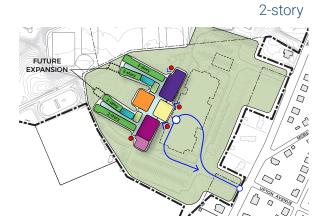


option 3C - 2 wings phased

BASE REPAIR



option 3D - backwards "C"



option 3E - angle

FUTURE

3/4-story



option 3F - linear

3/4-story







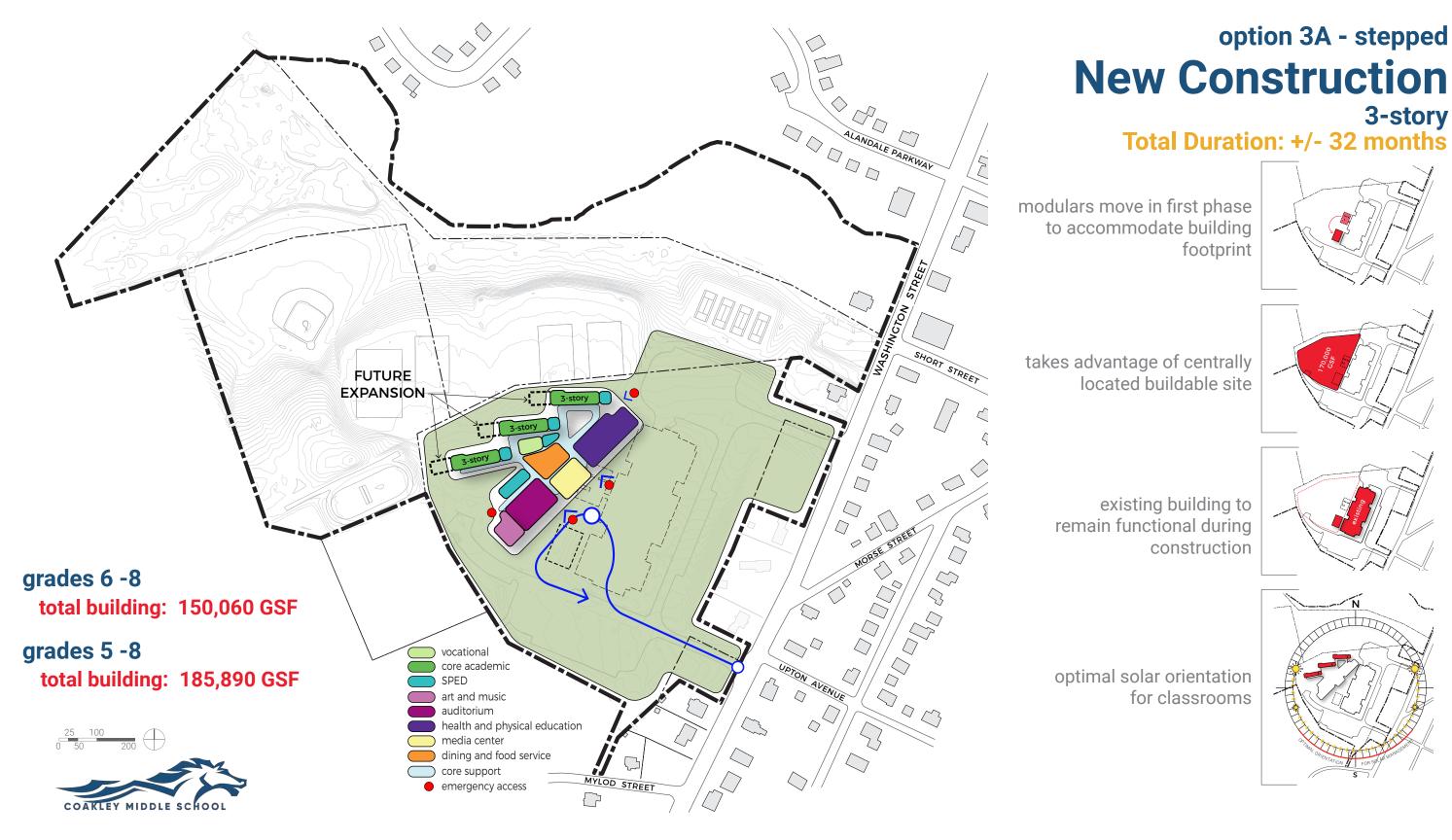
option 2A Add/Reno 1/2-story

- loss of 1 field
- no additional parking
- full perimenter access

PARKING







option 3A New Construction 3/4-story

- replication of 1 field
- additional parking
- full perimenter access
- perimeter access close to fields
- concessions would be demo'd & rebuilt

PARKING





option 3B - 2 wings

New Construction

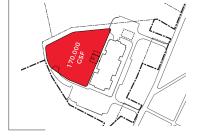
1-story/2-story

Total Duration: +/- 32 months

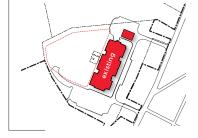
modulars move in first phase to accommodate building footprint



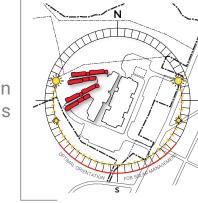
takes advantage of centrally located buildable site

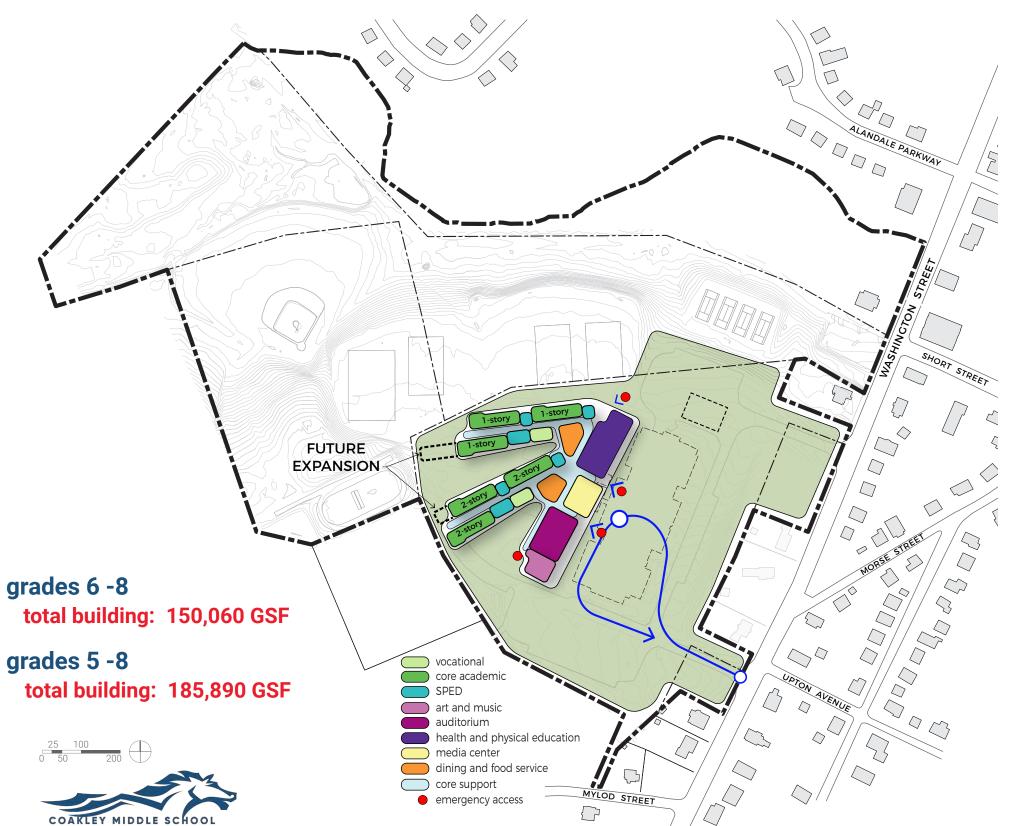


existing building to remain functional during construction



optimal solar orientation for classrooms





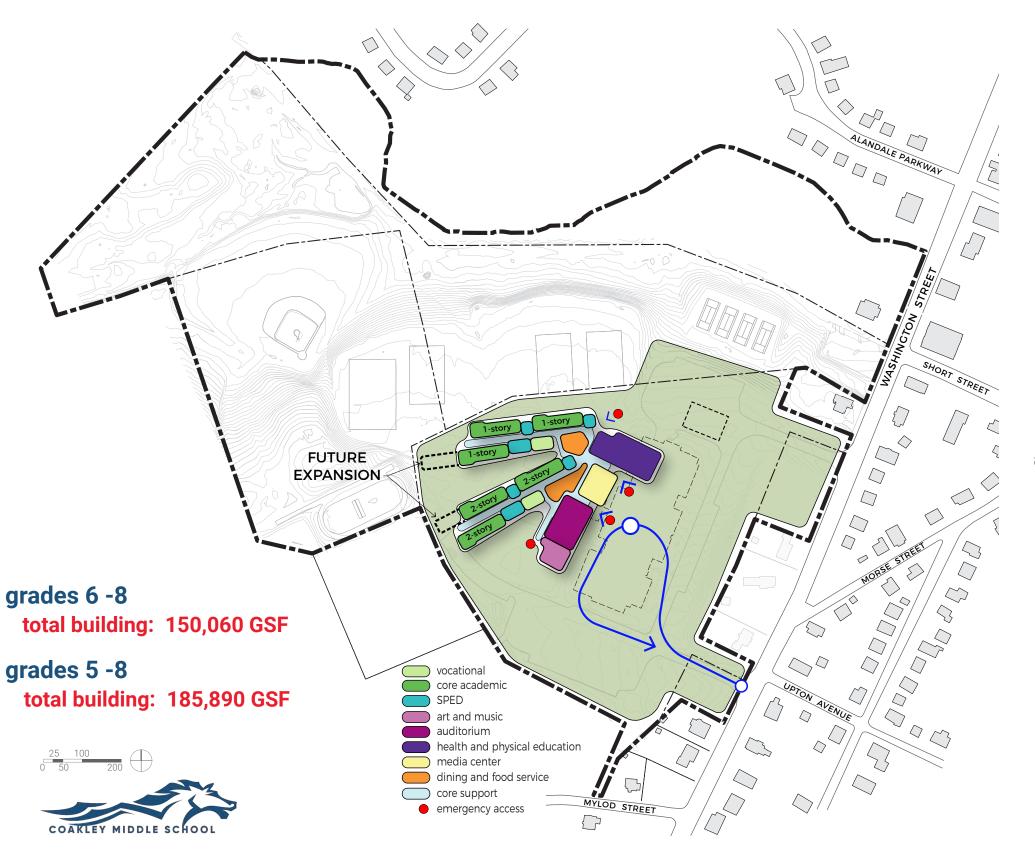
option 3B New Construction 1/2-story

- replication of 1 field
- additional parking
- full perimenter access
- perimeter access close to fields & little league
- concessions would be demo'd & rebuilt

PARKING







option 3C - 2 wings phased

New Construction

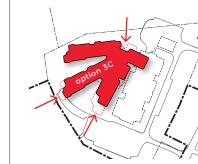
1-story/2-story

Total Duration: +/- 38 months

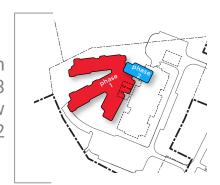
option 3B creates potential constraints



rotation of the gym allows adjustment to address these constraints



phase 1 of construction would keep existing zone 3 (gymnasium) with the new gym being built in phase 2



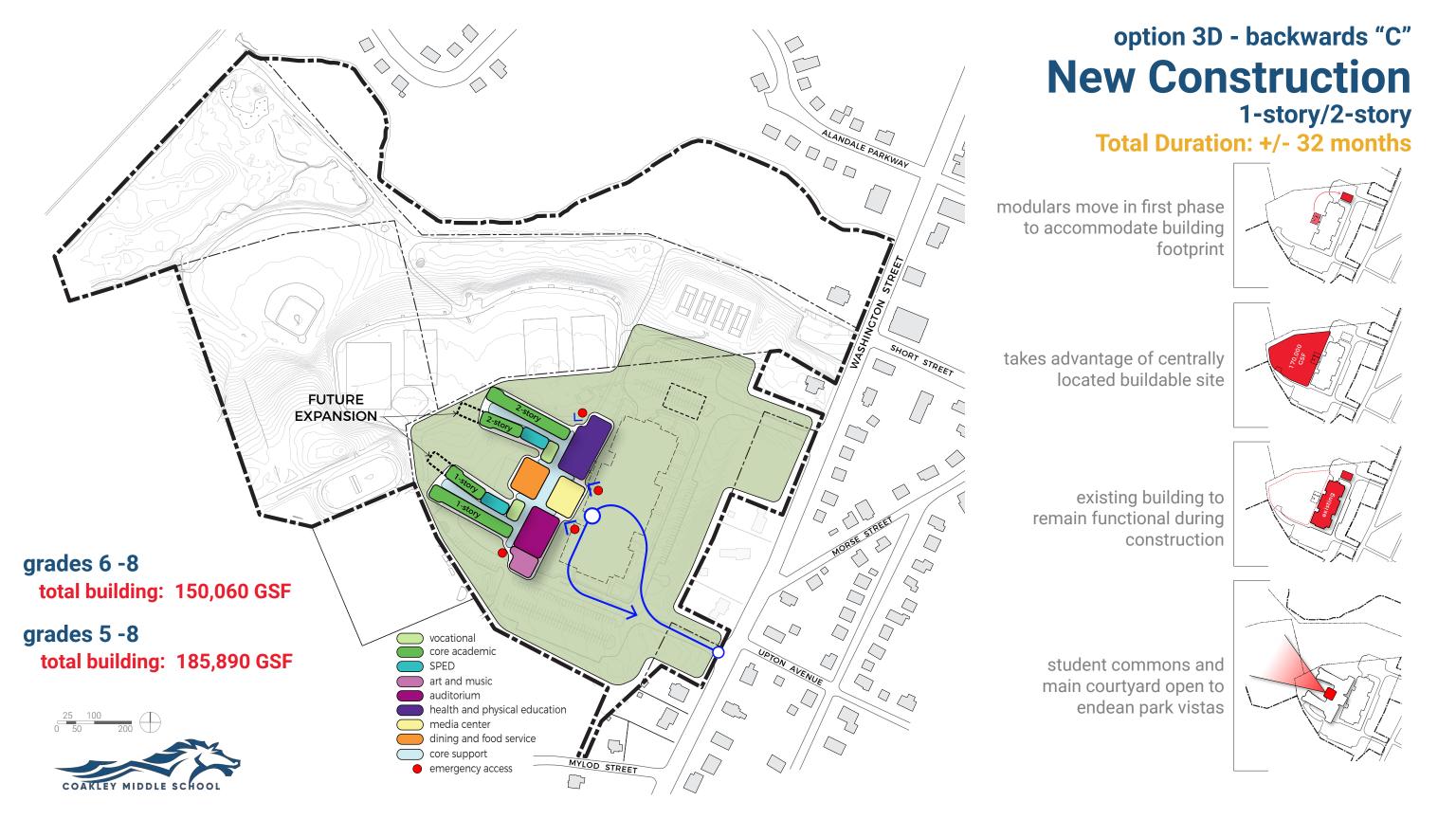
option 3C New Construction 1/2-story

- replication of 1 field
- additional parking
- full perimenter access
- perimeter access close to fields & little league
- concessions would be demo'd & rebuilt

PARKING







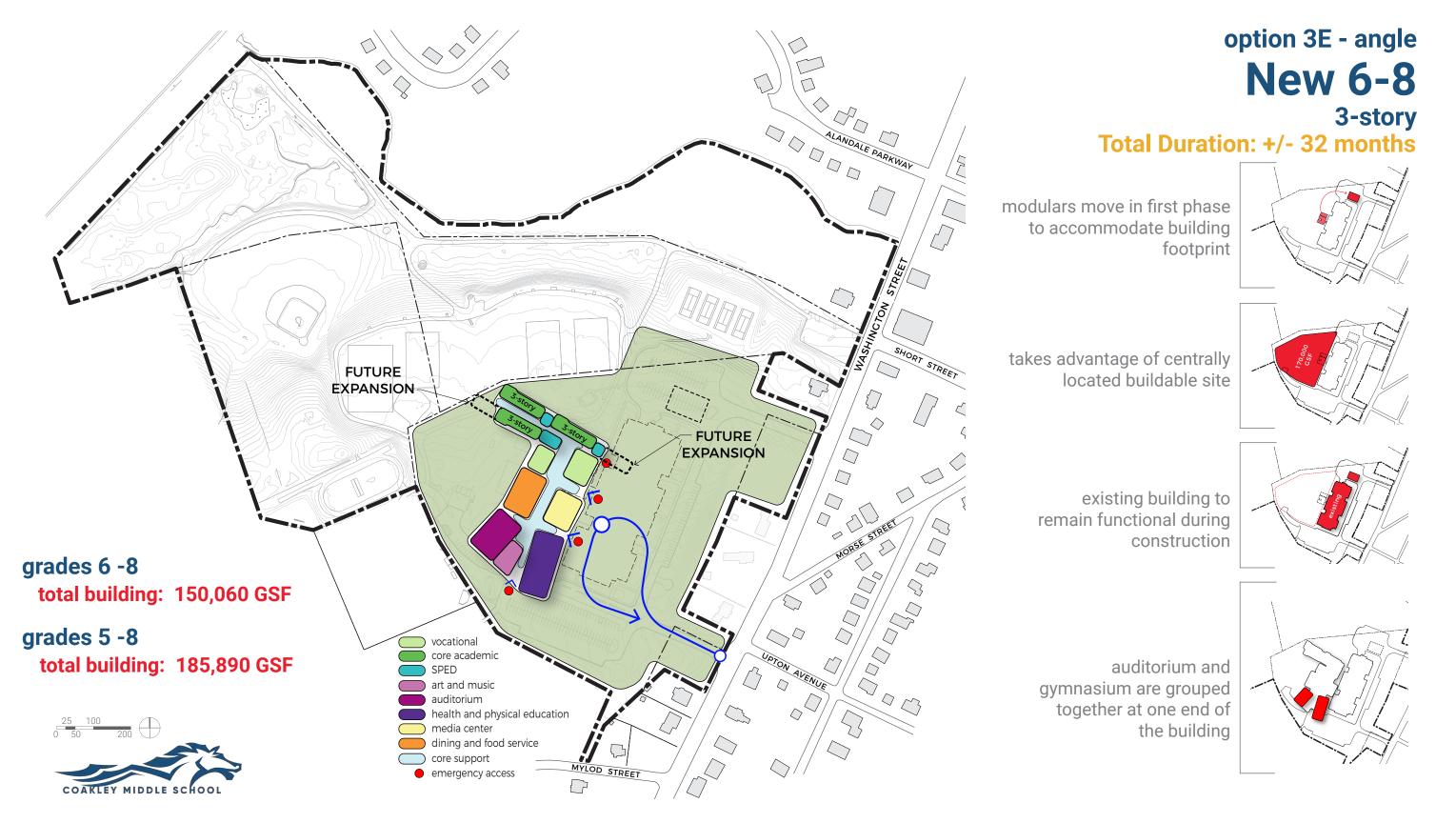
option 3D New Construction 1/2-story

- replication of 1 field
- additional parking
- full perimenter access
- perimeter access close to/encroaching fields
- concessions would be demo'd & rebuilt

PARKING







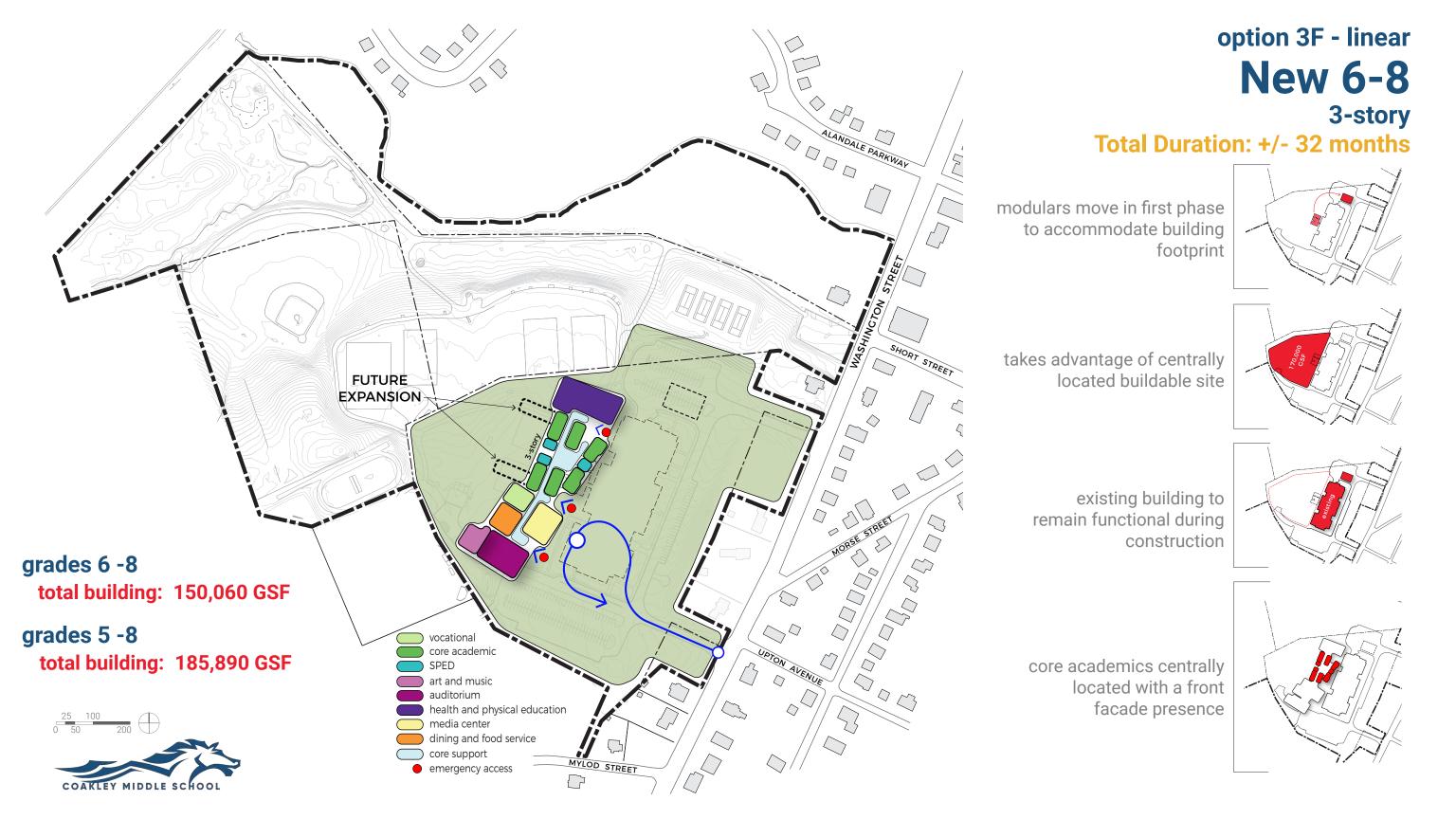
option 3E New Construction 3/4-story

- replication of 1 field
- additional parking
- full perimenter access
- perimeter access close to/encroaching fields
- concessions could remain

PARKING







option 3F New Construction 3/4-story

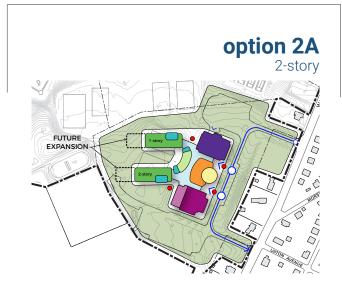
- replication of 1 field
- addition of small field
- additional parking
- full perimenter access
- perimeter access close to/encroaching fields
- concessions would be demo'd & rebuilt

PARKING

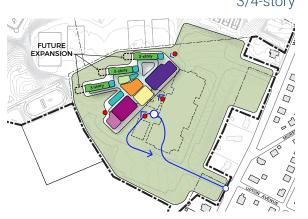




ADD/RENO NEW



option 3A - stepped 3/4-story

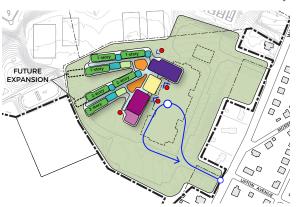


option 3B - 2 wings 2-story

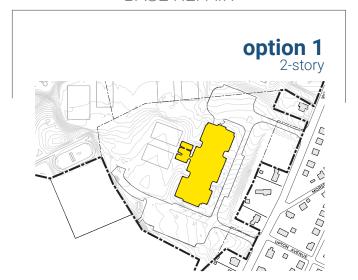


option 3C - 2 wings phased 2-story

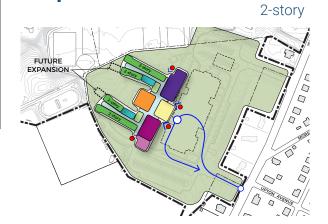
3/4-story



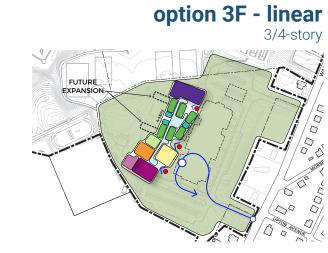
BASE REPAIR

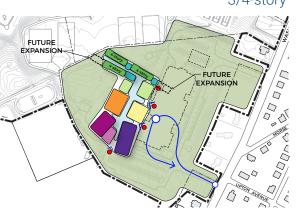


option 3D - backwards "C"



option 3E - angle 3/4-story







PSR Stage: Evaluation Criteria

Gettting to a Preferred Option...

what factors should be considered?

PRELIMINARY CRITERIA

- Support Educational Goals
- **♦ Total Project Cost**
- Construction Duration/Phasing
- Impact to the Existing School
- ♦ Impact to Fields & Greenspace
- Traffic / Site Circulation
- Community Use / Access
- Educational Space Daylighting

Coalley Middle School Project Namewood Public School Register Mark
School Rupided MA School Rupided MA



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST
	0002	. ,		



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST
------	------	------	------	-------



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost	\$61.3 mil	\$136.6 - \$160.2 mil	\$113.8 - \$134.5 mil	\$116.5 - \$138.0 mil	\$118.8 - \$140.4 mil	\$116.5 - \$138.0 mil	\$113.8 - \$134.5 mil	\$113.8 - \$134.5 mil
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

	BEST	GOOD	FAIR	POOR	WORST
--	------	------	------	------	-------



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing	48+ months	45 months	32 months	32 months	38 months	32 months	32 months	32 months
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

POOR

WORST



BEST

GOOD

FAIR

	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST
------	------	------	------	-------



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

POOR

WORST

FAIR



BEST

GOOD

	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST
------	------	------	------	-------



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST	



	Option 1	Option 2A	Option 3A	Option 3B	Option 3C	Option 3D	Option 3E	Option 3F
Project Evaluation Criteria Matrix			Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
DRAFT 4.12.2021	Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
Supports Education Program								
Project Cost								
Construction Duration / Phasing								
Impact to Existing School								
Impact to Existing Fields & Greenspace								
Traffic / Site Circulation								
Community Use / Accessibility								
Educational Space Daylighting								

BEST	GOOD	FAIR	POOR	WORST
------	------	------	------	-------



Project Evaluation Criteria Matrix

DRAFT 4.12.2021

Supports Education Program
Project Cost
Construction Duration / Phasing
Impact to Existing School
Impact to Existing Fields & Greenspace
Traffic / Site Circulation
Community Use / Accessibility
Educational Space Daylighting

Option 1	Option 2A	Option 3A	Орион эв	Орион эс	Орион эв	Option 3L	Option 31
		Stepped	2 Wings	2 Wings / Phased	Backwards "C"	Angle	Linear
		3.007					
Base Repair	Add/Reno	New 3/4 Story	New 1/2 Story	New 1/2 Story 2 Phase	New 1/2 Story	New 3/4 Story	New 3/4 Story
\$61.3 mil	\$136.6 - \$160.2 mil	\$113.8 - \$134.5 mil	\$116.5 - \$138.0 mil	\$118.8 - \$140.4 mil	\$116.5 - \$138.0 mil	\$113.8 - \$134.5 mil	\$113.8 - \$134.5 mil
48+ months	45 months	32 months	32 months	38 months	32 months	32 months	32 months

Option 3C

BEST	GOOD	FAIR	POOR	WORST
DESI	GOOD	FAIR	POUR	WURSI

Option 3A

Option 3B

Option 2A

Option 1



Option 3F

Option 3E

Option 3D

Questions?



