



## SCHOOL FACILITIES

MASTER PLAN & RECONFIGURATION STUDY

PRÉSENTATION TO BOARD OF EDUCATION

11.12.2019

## AGENDA

- Summary of the goals ~ "THE WHY""
- 2. Project History & Our Process

## 3. Outlining the Options

- Brief summary options considered
- Outline the process and effort
- Present the strategy & "best thinking" to date
- Key objectives of the Options
- Solicit Feedback & Comments





### GOALS OF THE PROJECT/ MASTER PLAN FOR THE FUTURE

- Analyze existing conditions & assess educational needs
- 10 to 15 year prioritized plan (Capital & Maintenance)
- Employ a sustainable approach to address facility & educational needs of the community
- Explore impact of demographics & population projections
- Develop alternative configurations & options
- Engage community & explore responsive solutions
- Produce a Long Range Master Plan for community



## PROJECT HISTORY OUR PROCESS



#### **PROJECT TIMELINE**



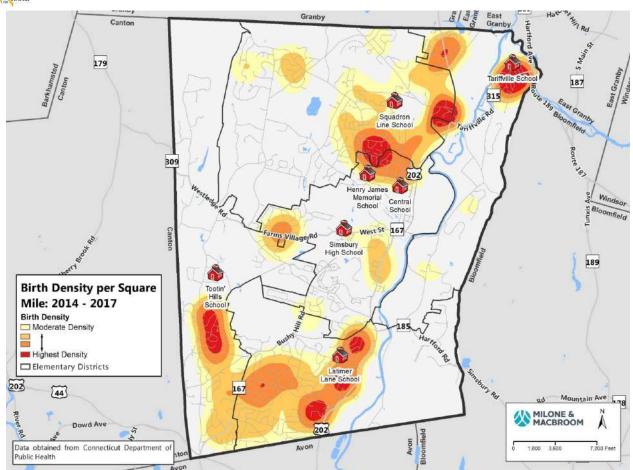


## Key points from the first Forum

- New housing development was analyzed as a part of the enrollment projections. Findings conclude:
  - A steady increase in elementary enrollment over the next five years (~300 students in K-6).
  - <u>Fastest growth at Latimer Lane (21.3%),</u> <u>Squadron Line (17.4%) and Central (15.3%).</u>



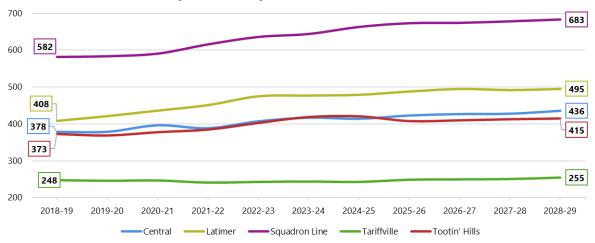
### **BIRTH HOT SPOTS**





#### ELEMENTARY PROJECTIONS/ BASED ON MEDIUM





- Fastest growth projected at Latimer (21.3%), Squadron Line (17.4%) and Central (15.3%), the three districts with the greatest housing construction activity.
- Modest growth projected at Tootin' Hills over the first five years of the projections.
- Tariffville projected to stay generally stable over the next decade, growing by just 2.8%.

## Key points from the first Forum

- Town has taken a methodical approach to building upgrades, though none have been comprehensive renovations.
- Facilities are well-maintained and community has <u>received solid value on their</u> <u>investment.</u>
- Most of the need is found in the <u>elementary</u> schools.



#### EXISTING SCHOOLS / TAKING STOCK OF WHAT YOU HAVE

#### **EXISTING CONDITIONS INVENTORY & ANALYSIS**

#### TARIFFVILLE SCHOOL (TS) K-6

#### B. SUMMARY & ANALYSIS

B.1 School & Facility Data

#### The School: Type: Bementary Enrollment (2018): Staff (approx): Enrollment (10yr projection) Net enrollment change: Location (in town): northeast end The Facility:

#### 39,398 SF Total Building Area (SF): Site Area (acres): 4.41 acres Storles (above grade): Building / Framing Materials: \_\_masonry, steel Split-level / ramps (interior): \_\_ramp, ADA Stairs (interior): Elevator: Basement Mezzanine (mechanical) Crawl Space / Tunnels: Modulars (classrooms): Auxiliary Buildings: full ADA Compliance: Athletic Fields:

#### **EXISTING CONDITIONS INVENTORY & ANALYSIS**

#### TARIFFVILLE SCHOOL (TS) K-6

#### B. SUMMARY & ANALYSIS

#### **B.3 Conditions Rankings**

#### B.33 CHECKLIST & RANKINGS D. PHOTO LOG

#### Ronking: 1 Very Poor [VP] Requires promp

- 2 Poor (P) May require attention 3 Fair [F] May require attention
- 4 Good [G] May require attention 5 Very Good IVG1 Does not rea

Component	Material(s)
Realing	EPDM memorane
	PVC membrane
	Rashing / joints
	Aluminum gutters
1,000	Fascia / Irim
Walls	Missionry - Brick
80000	Cladding - Vinyl sid
	Trim
	Joints (Building or e
	Wall mounted this
	Foundations - exp
Entrances	Aluminum Doors &
-V-03110-3284	Hollow Metal Door
	Soffits / Canopy
Windows	Aluminum, thermo
505-710	Window Screens (
Walkways / sile stain	Concrete walks &
	Bituminous works &
Drives / parking tols	Biluminous pavem
	Line striping
and the same of th	Extruded bitumino
Landscaping	Lawn
Andrew Control	Planting
	Mulch beds
Recreation	Flayscapes / Shuc
	Payed play surfac
	Payed play surfac
	Diamond fields
	Social Relati
Other Structures	Auxiliary Building(s
	Loading area
	Dumpster Enclosur
	Site Eginting (fixture
	Catch basin faps

Cotch basin structu

#### **EXISTING CONDITIONS INVENTORY & ANALYSIS** TARIFFVILLE ELEMENTARY SCHOOL (TS) K-6

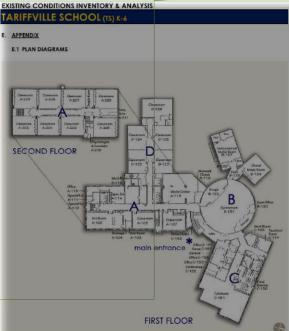
D.2 Site







D.2.2: Walkways / Site Sto



## Key points from the first Forum

Specific to the Elementary Schools....

- Facilities have been added to and/or partially renovated, leaving a complex composition of new and old, <u>inefficient layouts</u> and various vintages (exception: Squadron Line).
- Renovations to <u>core facilities</u> are needed (bathrooms, cafeterias, kitchens, gymnasiums, media centers).



LATIMER LANE

1962, 1996

57, 23

## EXISTING SCHOOLS / TAKING STOCK OF WHAT YOU HAVE



1962

GRADE

K-6

45,839



CENTRAL SCHOOL

1913, 1950.

104, 69, 22



### EFFICIENCY ANALYSIS/ IMPACT OF EXISTING ON EDUCATION

#### Latimer Lane



Area/Level	Footprint / Area	Non Educ. Space
Lower Floor	2,494	2,494
Ground Floor	46,057	17,226
Subtotal	48,551	19,720
Efficiency Factor	40.	62%
Typ. Eff. Factor	25-	30%
Loss of Ed. Space	4,800 -	7,300 sf





## Key points from the first Forum

Specific to the Elementary Schools....

- No facility has received a <u>comprehensive</u> renovation since its original construction.
- Programmatically, the faculty has made use of **every space possible**.
- The average age of the original elementary schools is 74.4 years.



## EXISTING SCHOOLS / TAKING STOCK OF WHAT YOU HAVE

BUILDING	YEAR BUILT	CURRENT AGE	CUR. Enroll.	GRADE Config.	(E) SF AREA
TARIFFVILLE	1925, 1959, 1986, 2009	94, 60, 33, 10	246	K-6	39,398
TOOTIN' HILLS	1954, 1958, 1995, 2000	65, 61, 24, 19	370	K-6	57,184
SQUADRON LINE	1969	50	578	PK-6	91,361
LATIMER LANE	1962, 1996	57, 23	405	K-6	45,839
CENTRAL SCHOOL	1913, 1950, 1997	106, 69, 22	375	K-6	60,909
HENRY JAMES MEMORIAL	1957, 1959, 2000, 2019	62, 60, 19	610	7-8	146,020
SIMSBURY HIGH SCHOOL	1968, 1982, 2005	51, 37, 14	1419	9-12	303,541

NOTES:

(1) YEAR BUILT ~ COMPLETION DATE

[2] SF AREA IS BASED UPON ASSESSOR INFORMATION AND EXISTING CONDITIONS DOCUMENTS PROVIDED

## What we heard at the first Forum

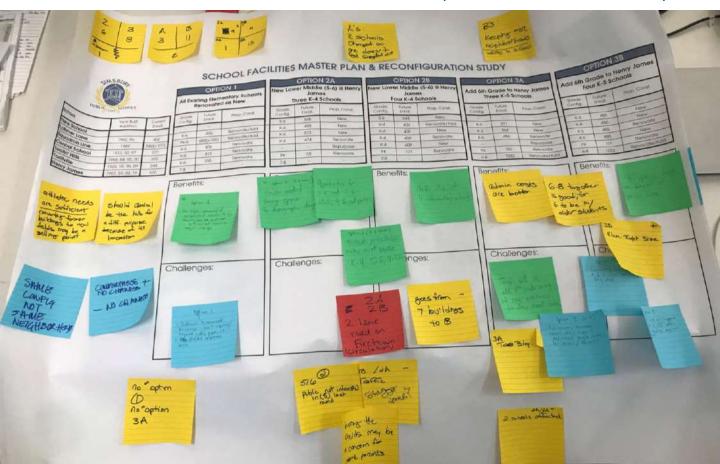
- Most existing condition issues were not a surprise, either in the buildings or the sites. <u>It is</u> <u>time to look at it comprehensively.</u>
- Sustainability is important: implementation new technologies, curriculum/practices that support the environment, using the building as a teaching tool, no fossil fuels, net-zero
- Agreed that schools are being used to their maximum potential.

## What we heard at the first Forum

- Spaces should be flexible and not oversized: encouraged to research trends.
- Site schemes should address security, accessibility and clear traffic flow.
- <u>No preconceived ideas</u> for the options: the metrics for evaluating them should be clear and quantitative.
- Designs must be <u>fiscally responsible</u>, balancing life cycle costs vs. initial costs.

# HISTORY OF OPTIONS CONSIDERED

## INTERACTIVE SESSIONS (FETFC & Admin. Council)



## INTERACTIVE SESSIONS (FETFC & Admin. Council)

- 6.19.19 Met with Leadership & discussed five options
- 7.25.19 Superintendent Cab. revised to six options
- 8.15.19 Admin. Council revised options, dropped PK 2
- 8.21.19 Admin Council revised options, dropped maintaining existing grade structure
- 9.18.19 Admin Council refined options
- 10.1.19 FETFC refined options down to 2 a/b, 3 a/b
- 10.16.19 Admin Council focused on two options: 5 6, 6 8
- 10.30.19 FETFC debated & refined two options

## REFINING THE OPTIONS ANALYZING THE NEED

## Capacity Analysis – Latimer Lane

	1	1 Capacity Analysis									
Item Description	<u> </u>	Projected Enrollment (2026-27)									
Grade Level	K	1	2	3	4	5	6	Subtl.			
Student Pop. (10/1/18)	62	66	64	74	70	79	80	495			
***************************************			•		•		•				
SF/Student (Max.)	120	120	120	120	120	152	152	156			
SF/Grade Level (Max.)	7,440	7,920	7,680	8,880	8,400	12,008	12,160	64,488			

	2) 8	State	Stand	lard S	pace	Spec	ificati	ons (	Frade	s			
Projected Enrollment	Pre-K and K	1	2	3	4	5	6	7	8	9	10	11	12
		Δ	llowa	able S	quare	Foots	age pe	r Pup	il				
0 - 350	124	124	124	124	124	156	156	180	180	180	194	194	194
351 - 750	120	120	120	120	120	152	152	176	176	176	190	190	190
751 - 1500	116	116	116	116	116	148	148	170	170	170	184	184	184
Over 1500	112	112	112	112	112	142	142	164	164	164	178	178	178

#### Sec. 10-287c-15. Standards (Reference: Section 10-283a)

(a) State standard space specifications. The standard space specifications identified in this section shall apply to all school building project grants except code and health violations, roof replacements, site acquisitions, site improvements, leasing projects, plant purchases, vocational agriculture equipment, and administrative facilities. For any building constructed prior to 1950, the standard space specifications identified in this section shall be increased by twenty-five per cent.

#### **Analysis**

- Take highest student enrollment from 8 year projection.
- Multiple by max. allowable as per state standard Space Specifications by grade level & total size of school
- Compare projected maximum allowable to existing areas to determine overall basic need.

MAX. ALLOWED EXISTING BUILDING (64,488 SF 45, 839 SF)

3 **DELTA** 18,649 SF

Existing Building needs to expand by 40.7%

## Capacity of what you have <u>Today</u>

BUILDING	GRADE CONFIG.	CUR. ENROLL.	FUTURE ENROLL.	EXISTING AREA	PER STATE STD.	DELTA
LATIMER LANE	K-6	406	<b>495</b> (Yr. 2026-27)	45,839	64,488	18,649
SQUADRON LINE	PK-6	580 (+101)	<b>683 (+101)</b> (Yr. 2028-29)	91,361	100,800	<u>9,439</u>
CENTRAL SCHOOL	K-6	377	<b>436</b> (Yr. 2028-29)	60,909	70,880*	<u>9,971</u>
TARIFFVILLE	K-6	248	<b>255</b> (Yr. 2028-29)	39,398	42,285*	<u>2,287</u>
TOOTIN' HILLS	K-6	370	<b>421</b> (Yr. 2024-25)	57,184	54,936	2,248

<sup>\*</sup> Increase allowable by 25% for buildings constructed prior to 1950

## Impact of Demographic Analysis How Many & When?

	Elementary & Middle School Enrollment Projection (Year by School)																		
School Name	2019- 20	2020- 21	Δ	2021- 22	Δ	2022- 23	Δ	2023- 24	Δ	2024- 25	Δ	2025- 26	Δ	2026- 27	Δ	2027- 28	Δ	2028- 29	Δ
Latimer	421	436	15	451	30	475	54	477	56	479	58	488	67	495	74	492	71	495	74
Squadron Line	584	591	7	616	32	636	52	644	60	663	79	673	89	674	90	678	94	683	99
Central	378	396	18	388	10	407	29	417	39	414	36	423	45	427	49	428	50	436	58
Tootin' Hills	369	378	9	385	16	403	34	419	50	421	52	408	39	410	41	413	44	415	46
Tariffville	246	247	1	241	-5	243	-3	244	-2	243	-3	249	3	250	4	251	5	255	9
K-6 Summary	1,998	2,048	50	2,081	83	2,164	166	2,201	203	2,220	222	2,241	243	2,256	258	2,262	264	2,284	286
Henry James	630	620	10	603	27	574	-56	593	-37	653	23	656	26	666	36	687	57	695	65
Control to control and Austral Large	$\Delta$ = Delta of students compared to existing school year 2019-20																		
Highest Projecte		2,284																	_
Existing (	(2019-20)	1,998																	_
5385 30 00300-00 30	Delta	286																	
Highest Projecte	d (28-29)	14.3%	E																

## Impact of Demographic Analysis

## How Many & When?

	Elementary & Middle School Enrollment Projection (Year by School)																		
School Name	2019- 20	2020- 21	Δ	2021- 22	Δ	2022- 23	Δ	2023- 24	Δ	2024- 25	Δ	2025- 26	Δ	2026- 27	Δ	2027- 28	Δ	2028- 29	Δ
Latimer	421	436	15	<b>4</b> 51	30	475	54	477	56	479	58	488	67	495	74	492	71	495	74
Squadron Line	584	591	7	616	32	636	52	644	60	663	79	673	89	674	90	678	94	683	99
Central	378	396	18	388	10	407	29	417	39	414	36	423	45	427	49	428	50	436	58
Tootin' Hills	369	378	9	385	16	403	34	419	50	421	52	408	39	410	41	413	44	415	46
Tariffville	246	247	.1	241	-5	243	-3	244	-2	243	-3	249	3	250	4	251	5	255	9
K-6 Summary	1,998	2,048	50	2,081	83	2,164	166	2,201	203	2,220	222	2,241	243	2,256	258	2,262	264	2,284	286
Henry James	630	620	10	603	27	574	-56	593	-37	653	23	656	26	666	36	687	57	695	65
Δ = Delta of stud	dents cor	npared to	o exis	iting sch	ool ye	ear 2019-	20												
Highest Projected	d (28-29)	2,284		22-2															
Existing (	2019-20)	1,998																	
	Delta	286																	
Highest Projected (28-29) 14.3%																			

In 3 Years... +166 Students, 8 to 9 classrooms In 4 Years... +203 Students, 10 to 11 classrooms

## **KEY ASPECTS** of refined options

- 1. Future Proof the plan, built-in flexibility over time
- 2. Free up space in the existing elementary schools early in the plan
- 3. Some redistricting regardless of the option
- 4. Create space for improved curriculum
- 5. Strategically address immediate needs to allow for phased implementation of capital improvements

## Option 1

**Step 1 -** Construct New Lower Middle Academy (5 6) at the Henry James Middle School site and reconfigure Elementary Schools to K 4; repurpose Tariffville as PK and Board of Education space.

**Step 2 -** Option to add/renovate/rebuild 3 Elementary Schools and repurpose Tootin Hills or add/renovate/rebuild all 4 remaining Elementary Schools.

BUILDING	GRADE CONF.	CUR. ENROLL.	FUTURE ENROLL.	CONSTR.
NEW LOWER MS @ HENRY JAMES	5-6	-	679	NEW
LATIMER LANE	K-4	406	490	NEW
SQUADRON LINE	K-4	580 (+101)	672	NEW
CENTRAL SCHOOL	K-4	377	474	RENO
TARIFFVILLE	PK	248	101	RENO/ DEMO

BUILDING	GRADE CONF.	CUR. ENROLL.	FUTURE ENROLL.	CONSTR.
NEW LOWER MS @ HENRY JAMES	5-6	-	679	NEW
LATIMER LANE	K-4	406	409	RENO/ ADD
SQUADRON LINE	K-4	580 (+101)	409	NEW
CENTRAL SCHOOL	K-4	377	409	RENO/ DEMO
TOOTIN HILLS	K-4	370	409	NEW
TARIFFVILLE	PK	248	101	RENO/ DEMO

## Option 2

**Step 1 -** Add on to Henry James to accommodate 6th Grade and Build New K 5 at Latimer Lane, reconfigure Elementary Schools to K 5, and repurpose Tariffville as PK and Board of Education space.

**Step 2 -** Renovate and/or rebuild 3 remaining Elementary Schools.

	-			
BUILDING	GRADE CONFIG.	CUR. Enroll.	FUTURE ENROLL.	CONSTR.
HENRY JAMES	6-8	610	1,039	RENO/ADD
LATIMER LANE	K-5	406	485	NEW
SQUADRON LINE	K-5	580 (+101)	486	NEW
CENTRAL SCHOOL	K-5	377	485	RENOVATE
TOOTIN HILLS	K-5	370	485	NEW
TARIFFVILLE	PK	248	101	RENO/DEMO

## PROPOSED OPTIONS - STEP 1

## Option 1

Construct a New Lower Middle Academy(5 6) at Henry James and reconfigure Elementary Schools to K 4 Maintain 3 or 4 Elem. Schools.

#### **Project Summary**

New School @HJMS Site: 679 Students Area: 100,492 sf, Site Development 9 acres

#### Costs

Site & Building	\$48,118,980
Soft Costs:	\$8,781,714
Total Project Costs	\$56,900,694

 State Reimb. @24.64%
 (\$14,020,331)

 Ineligibles
 \$2,276,028

 Cost to Simsbury
 \$45,156,391

## Option 2

Construct 6th grade addition /core spaces to Henry James <u>and</u> build new K 5 @ Latimer, and reconfigure Elementary Schools to K 5;

#### **Project Summary**

6<sup>th</sup> Grade Addition: 344 Students (1,039) Addition: 35,152 sf, Site Development 8 acres New School @ Latimer: 485 Students

Area: 60,440 sf

#### **Combined Costs**

Site & Building	\$52,886,922
Soft Costs:	\$9,651,863
Total Project Costs	\$62,538,785

State Reimb. @24.64%	(\$15,409,557)
Ineligibles	\$2,501,551
Cost to Simsbury	\$49,630,780



## **OPTION 1/** NEW LOWER MIDDLE (5-6) @ HENRY JAMES



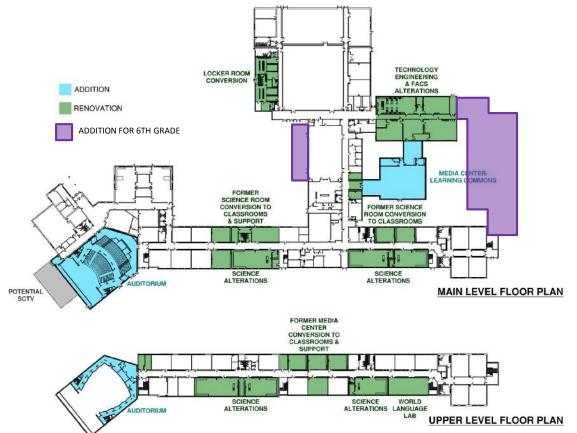


## **OPTION 2/** 6TH GRADE ADDITION @ HENRY JAMES





## **OPTION 2/** 6TH GRADE ADDITION TO HENRY JAMES





## BENEFITS & OPPORTUNITIES

Improves all K-6 Environments in the <u>first step.</u>
Maintains a majority of current neighborhoods
Schools are similarly and appropriately sized

"Buys time" at the Elementary Schools

## Option 1

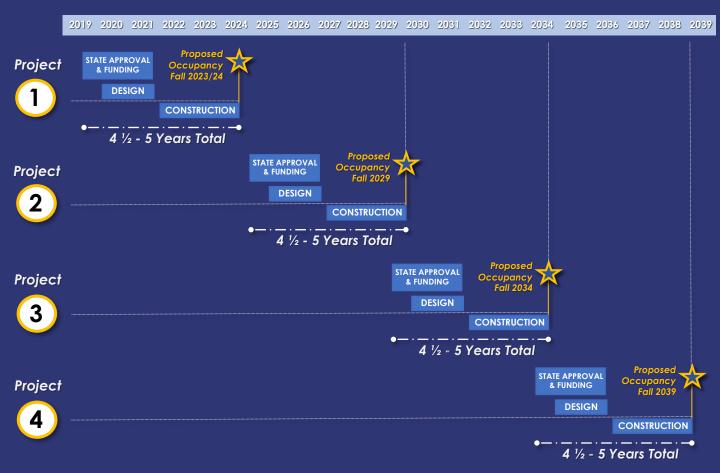
- Creates swing space for 640 students
  - Central ~ 124
  - Latimer ~ 143
  - Squadron Line ~ 173
  - Tariffville ~ 61
  - Tootin' Hills ~ 139

### Option 2

- Creates swing space 316 students
  - Central ~ 67
  - Latimer ~ 72
  - Squadron Line ~ 83
  - Tariffville ~ 33
  - Tootin' Hills ~ 62

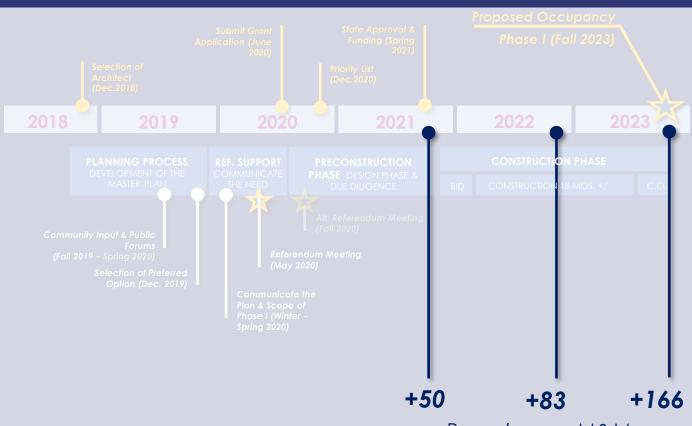
Note: School year 2023-24 need ~ 240+/-

## MILESTONE SCHEDULE OVERALL TIMELINE





Based upon M&M <u>Medium</u> Projection



Based upon M&M Medium Projection

Submit Grant Application (June 2021)

Selection o Architect (Dec.2018) State Approval & Funding (Spring 2021)

Priority List (Dec.2020 Proposed Occupancy

Phase I (Fall 2023)

2018

2019

2021

2022

2023

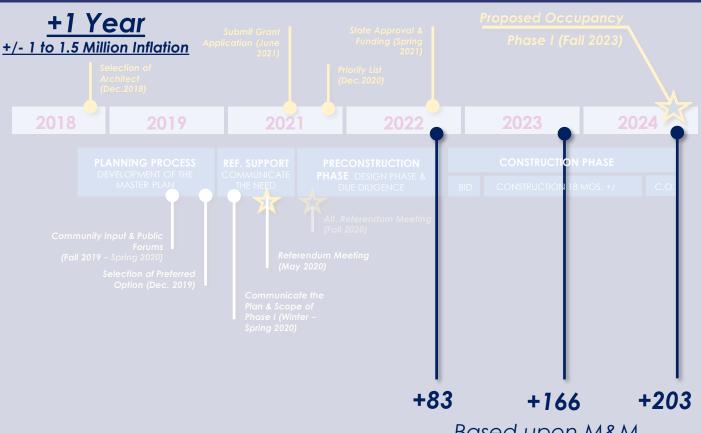
2024

## 

Community Input & Publi Forum (Fall 2019 – Spring 2020

Selection of Preferr

Don unicate the loope of Phase I (Winter –



Based upon M&M Medium Projection



### SCHEDULE/TIMELINE/ FOR 2019/2020

- June: Informal presentation to Matt & Burke, public forum
- 2. July: Superintendent's Cabinet meeting
- 3. August: Administrative Council meeting
- September: BOE and FETFC (addressing comments received)
- October: BOE and FETFC (finalized Option or Options), in preparation for public forum
- 6. November: BOE, public forum, revisions to documents afterwards, review project with State of CT
- December: submission of completed documents to Town



## Thank You!

Questions?





## SCHOOL FACILITIES

MASTER PLAN & RECONFIGURATION STUDY

PRÉSENTATION TO BOARD OF EDUCATION

11.12.2019