



Sanborn, NH School District
PK-12 School Facilities Study

August 2018

NESDEC PROJECT TEAM

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INTRODUCTION



INTRODUCTION

NESDEC entered into an agreement with the Sanborn School District to conduct a ***PK-12 School Facilities Study***. The goal of the project was to provide a basis for decision-making regarding future grade level re-configurations, building renovations and/or construction and alternative facility use.

Good long-range planning requires a specific mindset, temporarily casting aside more immediate concerns in order to think long-range. However, aspects of this report can be useful in making near-term decisions in two respects: 1) providing a better understanding of the long-term future of each building, thereby suggesting the assignment of grade levels to buildings in a manner that is consistent with the District's long-term plan; and 2) as a guide to budget planning, so funds can be earmarked for purposes that are consistent with intended long-range use of each facility.

INTRODUCTION (Cont.)

SCOPE

Enrollment Trend Analysis

The NESDEC Team analyzed District and municipal records and data provided by Town Officials, local and regional real estate sources, HUD, the State of New Hampshire and the U.S. Census Bureau.

Instructional Program Review and Facility Best Use Analysis

The study also included an analysis of present and planned school programs and the facilities needed to provide these programs. Members of the NESDEC Study Team visited the Sanborn High School, Sanborn Middle School, Memorial Elementary School, and the Bakie Elementary School while in session and met with administrators in each of the schools. School documents, including goals and curriculum and program information, were studied.

Although the study did not include a capital asset assessment, the NESDEC Team did review pertinent facility maintenance and capital improvement needs information that was provided by the District.

OPTIONS

Using information gained from its analysis of the enrollment projection; coupled with its instructional programming/facility capacity analysis, NESDEC analyzed potential alternatives for the District to review as it moves forward in the development of a Long-Range Facility Plan.

The alternatives that the NESDEC Team is presenting include a bulleted outline description of each option as well as a listing of advantages and challenges. The options are designed to serve as a catalyst for further analysis and discussion. Thus, this document should be considered not as an end-product, but rather as a beginning point for future planning.

DEMOGRAPHIC ANALYSIS

DEMOGRAPHIC ANALYSIS

Births – Source: State of New Hampshire, Division of Public Health

- Between 2002 and 2006, during the economic boom, births among current Sanborn RSD communities averaged 122 per year
- From 2007 through 2012, during the economic and housing downturn, births among Sanborn RSD communities averaged 104 per year
- From 2013-2016, births among Sanborn RSD communities have averaged 85 per year. The Millennial generation has married later and had a significantly lower number of births per couple than earlier generations

HUD Permit Information

- During the housing boom from 2001-2007, HUD single family permits for current Sanborn communities averaged 59 per year
- During the housing downturn from 2008-2012, HUD single family permits for current Sanborn communities averaged 37 per year
- From 2013-2017, HUD single family permits for current Sanborn communities averaged 66 per year

DEMOGRAPHIC ANALYSIS (Cont.)

Planning Department Information

Information provided by the Kingston, Newton and Fremont Planning Departments regarding new residential development indicates the following;

Kingston

- **Single Family Residences**
 - Under construction – 1 five lot sub-division
 - Approved awaiting construction – 1 two lot sub-division
 - Under review – 1 six lot continuation
- **Condo Units**
 - Under construction – over 55 – 1 six lot continuation
 - Possibly moving forward – over 55 project – no new information
- **Apartments** – none approved or in process

Newton

No single family, condominium or apartment projects under construction, approved but not constructed, or in the approval pipeline

Fremont

- **Single Family Residences**
 - Single family construction typically is between 6-12 units per year
 - 2 sub-divisions totaling 10 units are under construction
- **Condo Units**
 - A 20 lot condo development has been approved

Factors accelerating or impeding future development

No major changes were listed which would accelerate or impede residential development

DEMOGRAPHIC ANALYSIS (Cont.)

Realtor Input

NESDEC received the following information concerning the current Kingston, Newton and Fremont real estate market:

- During the past year, Kingston, Newton and Fremont have all experienced a significant uptick in single family existing home sales vs. three or four years ago
- In all three communities, days on the market have diminished
- If a home is properly priced and in good condition, there may be multiple offers within 2 weeks
- Inventory is low
- Homes priced below \$300,000 are selling most quickly
- **However, it is reported that a comparatively low number of recent single family home purchases involve families with children**
 - Many of the buyers are over aged 50
 - Couples in their late 40's and early 50's are reported to be moving to the Sanborn District towns from the Portsmouth and Manchester areas where tech businesses are growing in number, employment opportunities are rising, and home prices are much more expensive than in the Sanborn regional area. Many of these older couples do not have school-aged children.
 - The Sanborn Regional area has also become popular with Boomers from the Manchester, Portsmouth and northern Massachusetts areas. The Boomers are reported to be looking to sell their existing residences and purchase a significantly less expensive home in the Sanborn Regional area. This enables them to set aside in savings much of their home equity. Many express a desire to take advantage of their home equity before the economy experiences a downturn.
 - As a result of the above listed factors, the Millennials, many of whom are just beginning to have children and who are seeking starter homes in the Sanborn Regional area, are being out-bid when they issue a single-family purchase offer.
 - Data for Fremont, Kingston and Newton, gained from the U.S. Census Bureau American Community Surveys indicates that between 2012 and 2016 the percentage of under age 34 homeowners and renters within the three communities declined from 9.97% to 4.37%. During the same time period, the percentage of 65 and over homeowners and renters increased from 7.97% to 9.93%.

DEMOGRAPHIC ANALYSIS (Cont.)

Sanborn Regional School District Real Estate Sales Information Total Sales (Homes, mobile homes, condos)

2017

Kingston	140	(19 age-restricted)
Newton	73	(7 age-restricted)
Fremont	75	(12 age-restricted)
Total	288	

2016

Kingston	136	(29 age-restricted)
Newton	79	(9 age-restricted)
Fremont	120	(20 age-restricted)
Total	335	

2015

Kingston	78	(14 age-restricted)
Newton	94	(25 age-restricted)
Fremont	101	(25 age-restricted)
Total	273	

2012

Kingston	73	(8 age-restricted)
Newton	68	(14 age-restricted)
Fremont	57	(13 age-restricted)
Total	198	

ENROLLMENT PROJECTIONS



Sanborn RSD, NH Historical Enrollment

School District: Sanborn RSD, NH - SAU #17 Revised

6/11/2018

Historical Enrollment By Grade

Birth Year	Births	School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2002	124	2007-08	24	110	134	126	129	138	129	135	140	140	150	194	208	181	0	1914	1938
2003	127	2008-09	24	131	124	127	122	128	139	127	133	145	188	171	200	191	0	1926	1950
2004	116	2009-10	25	125	134	131	126	123	126	135	128	134	180	195	165	216	0	1918	1943
2005	124	2010-11	25	97	131	132	131	127	121	117	128	128	186	186	194	169	0	1847	1872
2006	122	2011-12	24	98	96	126	131	124	124	120	123	129	173	182	175	194	0	1795	1819
2007	108	2012-13	26	99	115	95	131	128	122	124	125	124	193	179	183	192	0	1810	1836
2008	111	2013-14	36	104	104	114	103	137	131	125	125	126	179	185	175	200	0	1808	1844
2009	117	2014-15	36	102	99	107	105	107	132	128	126	123	156	182	192	178	0	1737	1773
2010	98	2015-16	38	89	103	101	108	112	103	133	130	137	158	155	169	204	0	1702	1740
2011	95	2016-17	42	97	79	100	101	104	115	94	138	130	185	161	153	166	0	1623	1665
2012	97	2017-18	47	93	102	78	102	101	99	111	95	129	149	154	174	167	0	1554	1601

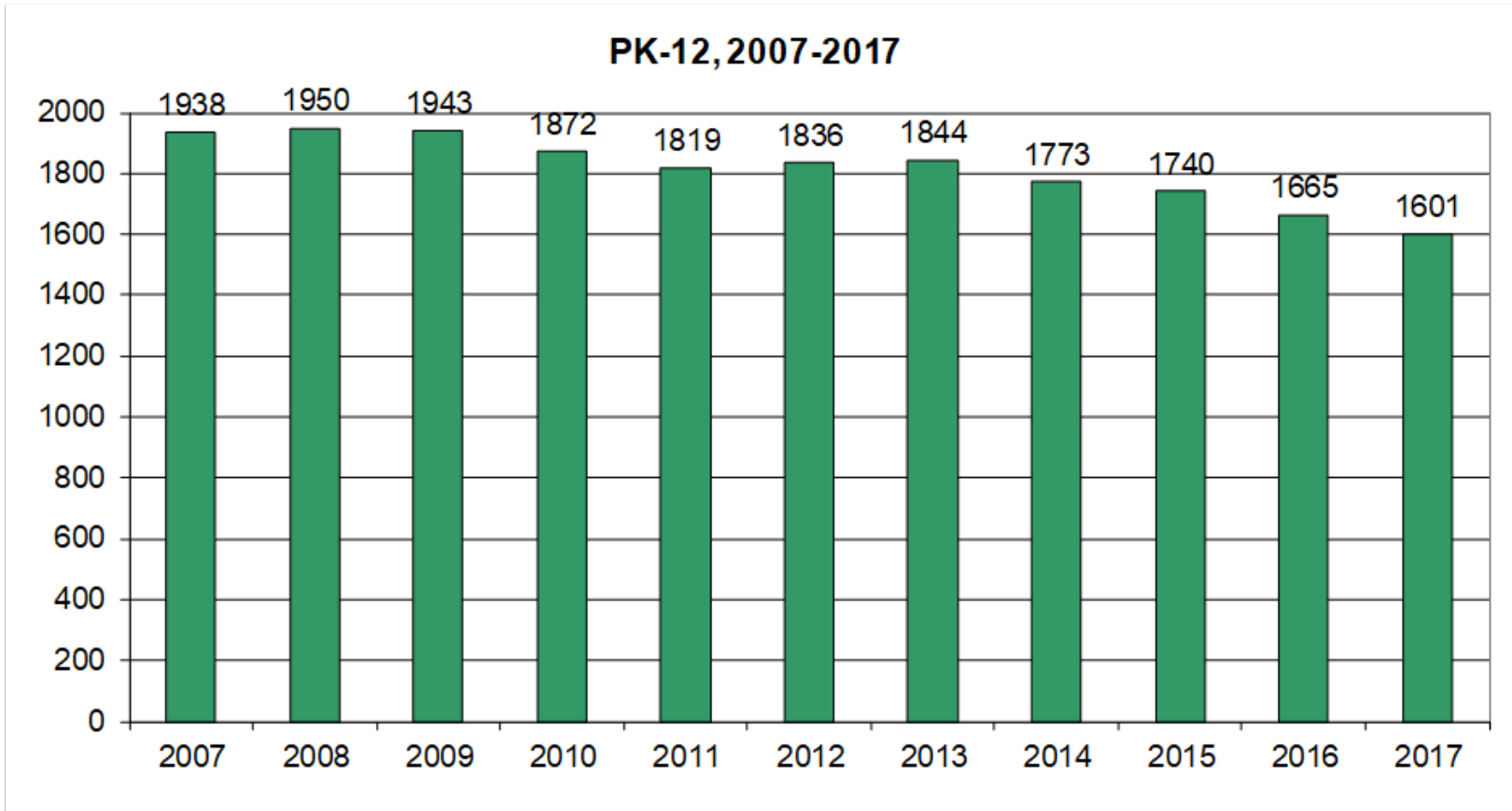
Historical Enrollment in Grade Combinations

Year	PK-5	K-5	K-6	K-8	5-8	6-8	7-8	7-12	9-12
2007-08	790	766	901	1181	544	415	280	1013	733
2008-09	795	771	898	1176	544	405	278	1028	750
2009-10	790	765	900	1162	523	397	262	1018	756
2010-11	764	739	856	1112	494	373	256	991	735
2011-12	723	699	819	1071	496	372	252	976	724
2012-13	716	690	814	1063	495	373	249	996	747
2013-14	729	693	818	1069	507	376	251	990	739
2014-15	688	652	780	1029	509	377	249	957	708
2015-16	654	616	749	1016	503	400	267	953	686
2016-17	638	596	690	958	477	362	268	933	665
2017-18	622	575	686	910	434	335	224	868	644

Historical Percentage Changes

Year	K-12	Diff.	%
2007-08	1914	0	0.0%
2008-09	1926	12	0.6%
2009-10	1918	-8	-0.4%
2010-11	1847	-71	-3.7%
2011-12	1795	-52	-2.8%
2012-13	1810	15	0.8%
2013-14	1808	-2	-0.1%
2014-15	1737	-71	-3.9%
2015-16	1702	-35	-2.0%
2016-17	1623	-79	-4.6%
2017-18	1554	-69	-4.3%
Change		-360	-18.8%

Sanborn RSD, NH Historical Enrollment



Sanborn RSD, NH Projected Enrollment

School District: Sanborn RSD, NH - SAU #17 Revised

6/11/2018

Enrollment Projections By Grade*																				
Birth Year	Births		School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2012	97		2017-18	47	93	102	78	102	101	99	111	95	129	149	154	174	167	0	1554	1601
2013	82		2018-19	48	77	91	101	79	103	99	95	113	96	163	143	154	182	0	1496	1544
2014	87		2019-20	49	82	75	90	102	80	101	95	97	114	121	156	143	161	0	1417	1466
2015	78		2020-21	50	73	80	74	91	103	78	97	97	98	144	116	156	149	0	1356	1406
2016	95	(prov.)	2021-22	51	89	71	79	75	92	101	75	99	98	124	138	116	163	0	1320	1371
2017	88	(est.)	2022-23	52	83	87	70	80	76	90	97	77	100	124	119	138	121	0	1262	1314
2018	86	(est.)	2023-24	53	81	81	86	71	81	75	87	99	78	126	119	119	144	0	1247	1300
2019	87	(est.)	2024-25	54	82	79	80	87	72	79	72	89	100	98	121	119	124	0	1202	1256
2020	87	(est.)	2025-26	55	81	80	78	81	88	71	76	74	90	126	94	121	124	0	1184	1239
2021	88	(est.)	2026-27	56	83	79	79	79	82	86	68	78	75	113	121	94	126	0	1163	1219
2022	87	(est.)	2027-28	57	82	81	78	80	80	80	83	69	79	95	108	121	98	0	1134	1191

*Projections should be updated annually to reflect changes in in/out-migration of families, real estate sales, residential construction, and births.

Based on an estimate of births

Based on children already born

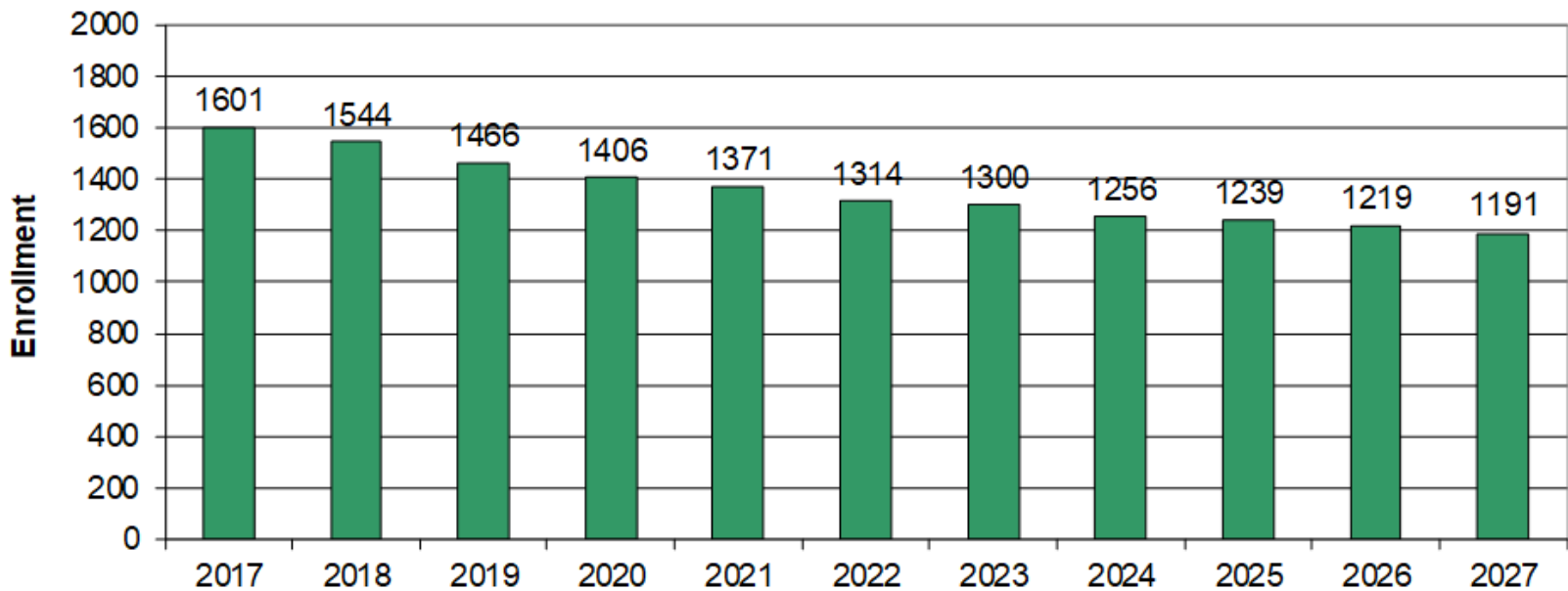
Based on students already enrolled

Projected Enrollment in Grade Combinations*									
Year	PK-5	K-5	K-6	K-8	5-8	6-8	7-8	7-12	9-12
2017-18	622	575	686	910	434	335	224	868	644
2018-19	598	560	645	854	403	304	209	851	642
2019-20	579	530	625	836	407	306	211	792	581
2020-21	549	499	586	791	370	292	195	760	565
2021-22	558	507	582	779	373	272	197	738	541
2022-23	538	486	583	760	364	274	177	679	502
2023-24	528	475	562	739	339	264	177	685	508
2024-25	533	479	551	740	340	261	189	651	482
2025-26	534	479	555	719	311	240	164	629	465
2026-27	544	488	558	709	307	221	153	607	454
2027-28	538	481	564	712	311	231	148	570	422

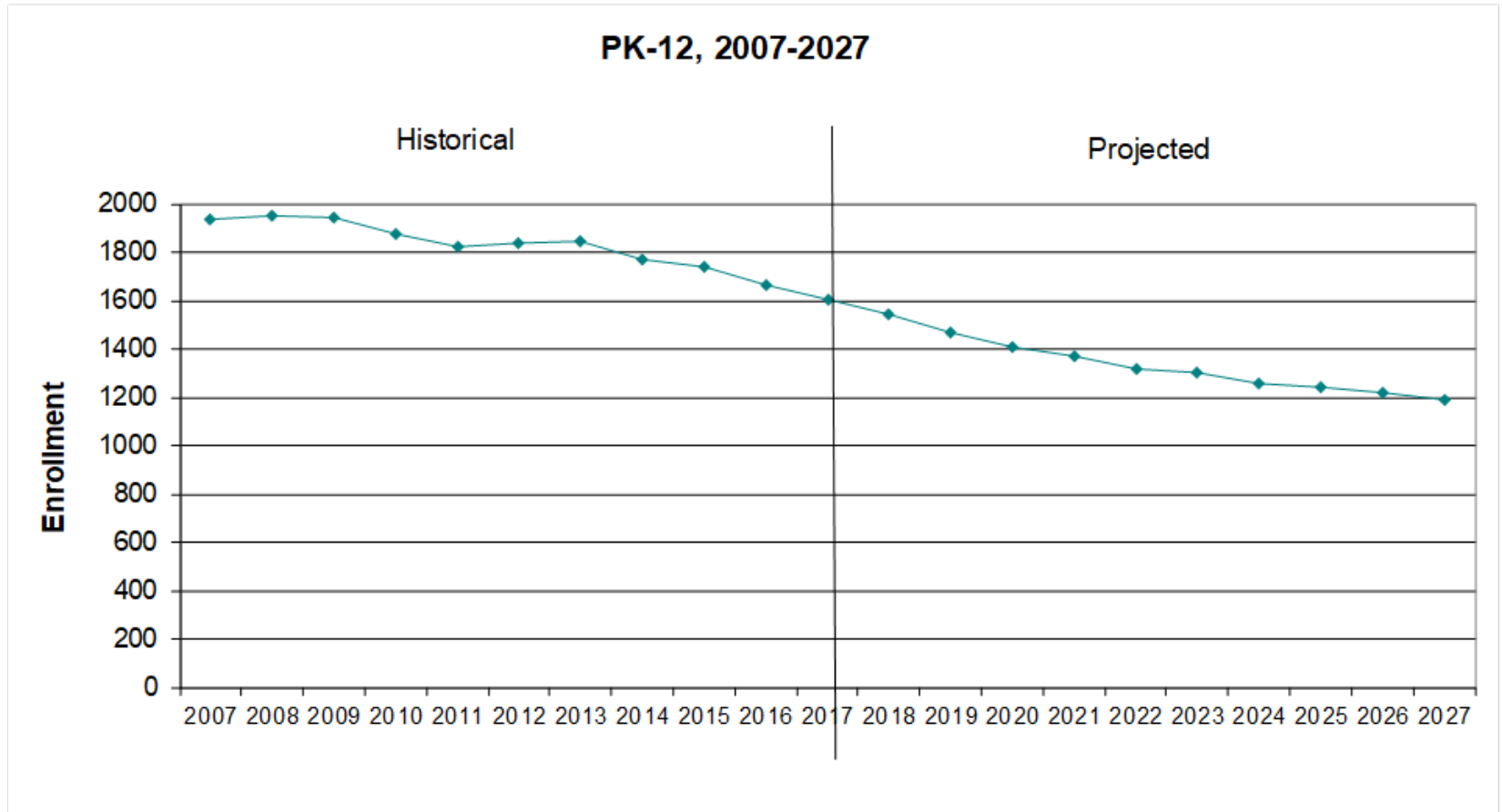
Projected Percentage Changes			
Year	K-12	Diff.	%
2017-18	1554	0	0.0%
2018-19	1496	-58	-3.7%
2019-20	1417	-79	-5.3%
2020-21	1366	-61	-4.3%
2021-22	1320	-38	-2.7%
2022-23	1262	-58	-4.4%
2023-24	1247	-15	-1.2%
2024-25	1202	-45	-3.6%
2025-26	1184	-18	-1.5%
2026-27	1163	-21	-1.8%
2027-28	1134	-29	-2.5%
Change		-420	-27.0%

Sanborn RSD, NH Projected Enrollment

PK-12 To 2027 Based On Data Through School Year 2017-18



Sanborn RSD, NH Historical & Projected Enrollment



Sanborn RSD, NH Birth-to-Kindergarten Relationship



Sanborn RSD, NH Additional Data

Building Permits Issued		
Year	Single-Family	Multi-Units
2005	33, 19, 41	12, 0, 0
2013	38, 9, 28	0
2014	35, 15, 32	0, 6, 0
2015	28, 21, 19	0
2016	29, 11	0
2017	29, 5 to Oct 31	0

Source: HUD and Building Department

Enrollment History		
Year	Career-Tech 9-12 Total	Non-Public K-12 Total
2005-06	n/a	n/a
2013-14	n/a	n/a
2014-15	n/a	n/a
2015-16	n/a	n/a
2016-17	n/a	n/a
2017-18	n/a	n/a

Residents in Non-Public Independent and Parochial Schools (General Education)														
Enrollments as of Oct. 1	K	1	2	3	4	5	6	7	8	9	10	11	12	K-12 TOTAL
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

K-12 Home-Schooled Students	
2017	61

K-12 Residents "Choiced-out" or in Charter or Magnet Schools	
2017	0

K-12 Special Education Outplaced Students	
2017	7

K-12 Choiced-In, Tuitioned-In, & Other Non-Residents	
2017	0

The above data were used to assist in the preparation of the enrollment projections. If additional demographic work is needed, please contact our office.

CAPACITY ANALYSIS



DEFINING “CAPACITY”

Architects depend heavily on square footage;
NESDEC also counts rooms...using the perspective of a
school principal who is creating a schedule for the building

- **Current Operating Capacity (C.O.C.)**
 - Class size (PK = 17; K = 18; Grades 1-3 = 20, Grades 4-12 = 25)
 - Current building use including deficiencies and portable classrooms
- **Planned Operating Capacity (P.O.C.)
for a 21st Century Educational Program**
 - For future planning/construction purposes
 - Corrects deficiencies; keeps current programs
 - Provides appropriate core and specialized facilities
 - Parity/equity among all buildings
 - Eliminates temporary facilities (e.g., portables)
 - Meets current code requirements

NESDEC advises that for long-term planning, districts maintain a minimum of a 10% capacity cushion to accommodate future growth (calculated as POC total less 10%)

BAKIE ELEMENTARY SCHOOL



FACILITY PROFILE: BAKIE ELEMENTARY SCHOOL

Grades	PK-5
Site Acreage	29 acres
Built	1941
Addition/Renovation	1988, 2006
Square Footage	58,785 sq. ft.
# Interchangeable Classrooms	21
Oct. 1, 2017 Enrollment	354

CURRENT AND PLANNED OPERATING CAPACITY: BAKIE ELEMENTARY SCHOOL

Current Operating Capacity (COC)	Planned Operating Capacity (POC)
<p>2 Half-Day Grade PK x 17= 34 3 Grade K x 18 = 54 11 Grades 1-3 x 20 = 220 6 Grades 4-5 x 25 = 150</p>	<p>2 Half-Day Grade PK x 17= 34 3 Grade K x 18 = 54 11 Grades 1-3 x 20 = 220 6 Grades 4-5 x 25 = 150</p>
<p>Total COC: 458</p>	<p>Total POC: 458</p>

BAKIE ELEMENTARY SCHOOL (Cont.)

Instructional Spaces:

- 21 interchangeable classrooms
- 1 Art room, with sink and adequate storage, separate space for kiln
- 1 Music room with adequate storage, although student instruments are stored in the hallway
- 1 technology “maker-space” room, used by classroom educators

Core Facilities:

- 1 Cafeteria/Auditorium/Gymnasium – full kitchen – meals prepared on site, 3 lunch waves, one serving line, serves 144 students, curtain between cafeteria and gym opens for more seating, ~412, as needed; stage is not HC accessible
- 1 Library/Media Center, educator book room storage at the back of the center and an enclosed computer lab
- 1 Gymnasium (see above) with 2 teaching stations, accommodates two classes, shared space with the cafeteria; health classes taught by PE educators in separate classroom

BAKIE ELEMENTARY SCHOOL (Cont.)

Administrative Space:

- 1 Principal's office, adequate space
- 1 Assistant Principal's office, space is adequate
- 2 Administrative Assistant's office, adequate space
- 1 Conference room, adequate space sometimes cramped when hosting larger meetings
- Full-time Nurse's office contains 2 day beds, one with a curtain, no private exam room, restroom HC
- 1 teacher lunchroom, 1 teacher work room

BAKIE ELEMENTARY SCHOOL (Cont.)

Support Staff:

- 1 full-time Guidance Counselor, has office space and shares classroom space with Health Educator, space is adequate
- 1 contracted Psychologist, space is shared with Speech and PK coordinator, space is adequate
- 1 PK Coordinator, space is adequate
- 1 full-time Speech, space is adequate
- 1 part-time Speech, space is shared with case manager and is inadequate
- 1 contracted OT/PT, has adequate space
- 3 resource rooms, space is adequate
- 1 full-time Mathematics enrichment educator, 1 Reading Specialist, space is adequate
- 2 Title I Math/ELA para-educators, shared space is adequate
- 1 Case Manager, space is adequate
- 1 half-time ELL educator, space is shared and not adequate

BAKIE ELEMENTARY SCHOOL (Cont.)

Instructional/Administrative Technology:

- 1:1 for every grade, K-2 with iPads, 3-5 with Chromebooks
- 2 computer carts, with 20-25 devices each
- Classrooms have interactive projection devices
- Library has one desktop and a computer lab (20 desktops) Electronic texts and software are used K-5
- Wi-Fi access is reliable
- Special Ed plans, health records, grading and attendance computerized

ADA/Handicapped Access:

- Curb cuts and handicapped parking spaces are available
- Main restrooms are HC, but classroom restrooms are not HC
- Lever door handles and “closed-fist” crash bars are evident
- Route of travel in the building does require stairs, there is a ramp, no elevator or lift; note: the main entrance requires a step up, but there is another entrance that is HC

BAKIE ELEMENTARY SCHOOL (Cont.)

Major Systems & Maintenance:

- Plumbing is reported as satisfactory
- Electrical system is reported as satisfactory, however, the length of the electrical line from the street creates a potential for failure during a storm
- HVAC is reported as needs improvement, as the third floor rooms can get hot in the warmer months
- The windows, doors, flooring and walls are reported as satisfactory
- The roof is reported as satisfactory

BAKIE ELEMENTARY SCHOOL (Cont.)

Site Information:

- Parking during the school day is reported as satisfactory
- Event parking reported as needs improvement, when special events occur, the administration works with the police department to facilitate parking off-site
- Field/play space noted as satisfactory
- Areas for drop-off and pick-up reported as needs improvement, preschool pickup and drop-off at the main entrances causes traffic concerns
- Proximity to traffic noted as needs improvement for preschool drop-off and pickup

Storage:

- Storage for classroom supplies reported as adequate, although the PE storage area houses tables/chairs and the library houses the book room for classes
- Storage for custodial supplies is adequate
- Storage for administrative supplies is adequate; administrative records storage is inadequate
- Storage for kitchen supplies is adequate

MEMORIAL ELEMENTARY SCHOOL



FACILITY PROFILE: MEMORIAL ELEMENTARY SCHOOL

Grades	PK-5
Site Acreage	26.4 acres
Built	1950
Addition/Renovation	Additions: 1952, 1975, 1998, 2006; Renovations: 1967, 1990, 2004, 2005, 2010 Modulars: 2000, 2004
Square Footage	39,004 sq. ft.
# Interchangeable Classrooms	17
Oct. 1, 2017 Enrollment	268

CURRENT AND PLANNED OPERATING CAPACITY: MEMORIAL ELEMENTARY SCHOOL

Current Operating Capacity (COC)	Planned Operating Capacity (POC)
<p>2 Half-Day Grade PK x 17= 34 3 Grade K x 18 = 54 7 Grades 1-3 x 20 = 140 6 Grades 4-5 x 25 = 150</p>	<p>2 Half-Day Grade PK x 17= 34 3 Grade K x 18 = 54 7 Grades 1-3 x 20 = 140 1 Grades 4-5 x 25 = 25</p>
<p>Total COC: 378</p>	<p>Total POC: 253</p>
	<p>5 classrooms taken offline, 4 portable classrooms and one classroom for storage</p>

MEMORIAL ELEMENTARY SCHOOL (Cont.)

Instructional Spaces:

- 17 interchangeable classrooms
- 1 Art room, with sink and adequate storage
- 1 Music room with adequate storage, located in portable classroom
- 1 Band room with adequate storage, located in portable classroom
- 1 STEAM room with adequate storage

Core Facilities:

- Cafetorium/Gymnasium – full kitchen – meals prepared on site, 6 lunch waves over 3 lunch sessions, one serving line, serving 50 students, seating for 255 students; stage area is used for storage
- Library/Media Center with adequate storage
- Gym with 1 teaching station and 2 full-time PE educators, seats 50 students (shared space with cafetorium)

MEMORIAL ELEMENTARY SCHOOL (Cont.)

Administrative Space:

- 1 Principal's office, 1 Assistant Principal's office, space is adequate
- 2 Administrative Assistant's offices, space is adequate
- 1 Conference room, located in Assistant Principal's office, adequate space
- 1 full-time Nurse, 1 day bed, 1 shower, restroom HC, limited storage, no private exam space
- 1 teacher lunchroom, 2 teacher work rooms, space is adequate

Support Staff:

- 1 full-time Guidance Counselor, space is adequate
- 1 contracted Psychologist, space is shared with Guidance Counselor, and an additional small testing space, adequate
- 1 contracted Speech, space is adequate
- 1 OT, has adequate space, shared with contracted PT, space is adequate
- 2 resource rooms, space is adequate
- 1 ESL educator, space is in portable classroom, adequate
- 1 Mathematics coordinator, space is adequate
- 2 Title I math/reading educators, shared space is adequate

MEMORIAL ELEMENTARY SCHOOL (Cont.)

Instructional/Administrative Technology:

- 1:1 for every grade, K-2 with iPads, 3-5 with Chromebooks
- Classrooms have interactive projection devices
- Library has one desktop computer for book-checkout
- Electronic texts and software are used K-5
- Wi-Fi access is reliable
- Special Ed plans, health records, grading and attendance computerized

ADA/Handicapped Access:

- Curb cuts and handicapped parking spaces are available
- Main restrooms are HC accessible; classroom restrooms are not HC
- Lever door handles and “closed-fist” crash bars are evident
- Route of travel in the building does require stairs, there is a ramp, no elevator or lift available

MEMORIAL ELEMENTARY SCHOOL (Cont.)

Major Systems & Maintenance:

- Plumbing and electrical systems are reported as satisfactory
- HVAC is reported as satisfactory
- The windows are reported as needs improvement, older windows throughout and some hardware needs replacement
- The doors are reported to be in need of improvement
- The roof has some leakage with some tiles needing replacement, reported as needs improvement
- The walls are reported as satisfactory
- Flooring is reported as needs improvement, tiles are lifting in the hallways

MEMORIAL ELEMENTARY SCHOOL (Cont.)

Site Information:

- Parking reported as needs immediate attention, not adequate for holding daytime activities, shared entrance with the middle school
- Event parking reported as needs immediate attention, as evening events can result in parking on both sides of the access roads
- Field/play space noted as satisfactory
- Areas for drop-off and pick-up reported needs immediate attention as there is not enough space for cars during this time, back-up on main road, bus pick-up in front and on side
- Proximity to traffic noted as satisfactory

Storage:

- Storage for classroom supplies reported as inadequate, only storage is in classrooms
- Storage for custodial supplies is reported as inadequate, use of supply closet
- Storage for administrative supplies/records is inadequate
- Storage for kitchen supplies is adequate

SANBORN REGIONAL MIDDLE SCHOOL



FACILITY PROFILE: SANBORN MIDDLE SCHOOL

Grades	6-8
Site Acreage	26.4
Built	1978
Addition/Renovation	1995, 1999, 2002 Mods
Square Footage	47,850
# Interchangeable Classrooms	20 (Includes Science)
Oct. 1, 2017 Enrollment	335

SANBORN MIDDLE SCHOOL

CURRENT/PLANNED OPERATING CAPACITY

Room Description	Rooms/ Teaching Stations	Student Stations	Total
Middle School			
Regular Interchangeable Classrooms (English, Mathematics, Social Studies, World Languages)	15	25	375
Art Room	1	25	25
Band and Music rooms	2	25	50
Science rooms	5	24	120
Tech Ed	1	25	25
Physical Education/Wellness	3	25	75
Special Needs (Self-contained)	1	12	12
Computer Instruction	1	25	25
Middle School Total			707
Middle School – COC		707 x .75 =	530
Middle School – POC		7 classrooms off-line (1 for storage, 6 modular which are 16 years old) $707 - 175 = 532 \times .75 = 399$	399

SANBORN MIDDLE SCHOOL

Instructional Spaces:

- 15 full-sized classrooms used for English, Math, Social Studies, and Foreign Language instruction
- 4 Science classrooms
- 1 Science Lab – shared
- 1 Art room – sinks, no kiln, storage inadequate
- 2 Music rooms – Band, Chorus and General Music

Core Facilities:

- 1 Cafeteria/Gym
 - Cafeteria capacity 130, warming kitchen, 3 lunch waves
 - Gym – 2 teaching stations, divider, bleachers – relatively new, seating capacity bleachers 609 – not HC, locker rooms – not functioning
 - 1 Wellness space
- No Auditorium – performances at high school
- Library/Media Center – accommodates 1 class, 24 computers, storage not adequate

SANBORN MIDDLE SCHOOL (Cont.)

Administrative Space:

- 1 Principal and 1 Assistant Principal offices – adequate
- 2 Administrative Assistant work-stations – adequate
- 2 Conference spaces – 1 in rear of Special Education area – scheduling sometimes tight
- Nurse's station – no private exam area, 1 rest room – no HC, 2 day beds
- 1 Teacher workspace – work area – lounge, adequate

Support Staff:

- 2 Guidance offices – adequate
- .5 Social Worker uses conference space or other available space
- 1 Psychologist – adequate
- OT/PT – no designated space, use Speech/Language or Special Ed area
- 1 Speech and Language space – viewed as adequate
- 1 ELL space, adequate – available but not currently in use
- 1 Self-Contained Special Education classroom – viewed as adequate
- 1 Special Education Resource room – pull-out
- 1 Reading support room – pull-out
- 1 Behavior Center – Quiet space

SANBORN MIDDLE SCHOOL (Cont.)

Instructional/Administrative Technology:

- 1 Computer Lab – Tech Ed Instruction
- Computers per classroom – 24
- Electronic texts – 8
- Smart Boards or similar devices – in classrooms
- Special Ed plans, grading and attendance are done electronically
- Wireless accessibility throughout – viewed as adequate

ADA/Handicapped Access:

- ADA compliant regarding Parking/curb cuts
- Toilets – needs improvement
- Levered door handles, and “closed fist” crash bars – adequate
- Route of travel not requiring stairs – adequate

SANBORN MIDDLE SCHOOL (Cont.)

Major Systems & Maintenance:

- Plumbing is viewed as satisfactory; some is the original and there are some leaks
- HVAC – classrooms are very warm in late Spring and early Fall
- The electrical system experiences some overloads
- The windows are the originals – single-paned, reported to need immediate attention
- Doors are viewed as satisfactory – exterior doors have recently been upgraded
- The roof is reported to be in need of improvement in the area of the modulars
- The flooring is reported to be satisfactory
- Walls are viewed as structurally sound

SANBORN MIDDLE SCHOOL (Cont.)

Site Information:

- School day parking is reported as satisfactory
- Event parking is viewed as inadequate
- Field and playground space is viewed as satisfactory
- Areas for pick-up and drop-off are reported to be tight, especially in the PM
- Traffic is reported to be congested at the beginning and end of the school day – one access road

Storage

- Storage for classroom, administrative, custodial and kitchen supplies is viewed as in need of improvement

SANBORN HIGH SCHOOL



FACILITY PROFILE: SANBORN HIGH SCHOOL

Grades	9-12
Site Acreage	80+
Built	2006
Addition/Renovation	2016 – Entry area
Square Footage	215,000
# Interchangeable Classrooms	27
Oct. 1, 2017 Enrollment	644

SANBORN HIGH SCHOOL

CURRENT/PLANNED OPERATING CAPACITY

Room Description	Rooms/ Teaching Stations	Student Stations	Total
High School			
Regular Interchangeable Classrooms (English, Mathematics, Social Studies, World Languages)	27	25	675
Art rooms (Including Graphics and TV Studio)	4	25	100
Business rooms/labs – Robotics, Desktop Publishing, ELO/Career Path	3	25	75
Science rooms	7	24	168
Band, Chorus, Orchestra	2	25	50
Physical Education/Health/Fitness	6	25	150
Special Needs (Self-contained)	3	12	36
Tech. Ed. - Wood Shop, Auto, Welding	3	18	54
Family Consumer Science	2	25	50
High School Total			1,358
High School – COC		1,358 x .75 =	1,018
High School – POC		2 vacant instructional spaces added 1,358 + 50 = 1,408 X .75 =	1,056

SANBORN HIGH SCHOOL

Instructional Spaces:

- 27 Full-sized classrooms – English, Math, Social Studies and World Language
- 7 Science Labs
- 3 Art rooms – sinks, tables, kiln, storage inadequate
- 1 TV Recording studio
- 2 Music rooms – Band, Chorus
- 3 Business instructional spaces – Desktop Publishing, Robotics, ELO/Career Path
- 6 Physical Education/Health/Fitness
- 3 Special Needs (self-contained)
- 3 Tech Ed., Auto, Welding
- 2 Family Consumer Science

SANBORN HIGH SCHOOL (Cont.)

Core Facilities:

- 1 Cafeteria – capacity per lunch wave 350, full kitchen, 2 lunch waves, 2 serving lines plus ala carte
- 1 Auditorium – seats 575, HC accessible seating, stage HC accessible, lighting and sound viewed as in need of improvement
- 2 Gyms (1 Mini no bleachers) – 3 teaching stations plus fitness room – bleachers capacity 1,200 – 2 locker rooms and 2 team rooms
- 1 Library Media Center – seats 2 classes – office

Administrative Space:

- 3 Principal/Assistant Principal offices viewed as adequate
- 5 Administrative Assistant workstations – 4 Main office, 1 Guidance – viewed as adequate
- 2 Conference spaces – viewed as adequate
- 1 Nurse's station – office/reception area, private exam room, 4 day beds, 1 restroom, HC accessible
- 2 Teacher work spaces plus lounge – viewed as adequate

SANBORN HIGH SCHOOL (Cont.)

Sanborn SAU 17 Offices:

- 7 designated spaces on 2nd floor of high school
- 4 Central Office spaces are located near the Guidance offices, and 3 additional designated Central Office spaces are located in the Math corridor

Instructional/Administrative Technology:

- 3 Computer Labs
- Computers per classroom – 1:1
- Chrome Books or similar devices on carts – yes
- LCD projectors – every teacher
- Smart Boards or similar devices – yes
- Electronic texts – yes
- Special Ed plans, health records, grading and attendance are done electronically
- Wireless accessibility – throughout building – yes
- Parent portal is available

SANBORN HIGH SCHOOL (Cont.)

ADA/Handicapped Access:

- Parking/curb cuts – satisfactory
- Levered door handles and “closed fist” crash bars – yes
- ADA Toilets – yes
- Route of travel within the building not requiring stairs – yes
- Elevator – yes

Major Systems & Maintenance:

- The plumbing, HVAC and electrical systems are reported to be satisfactory
- Windows and doors are reported to be energy efficient
- The roof is reported to be satisfactory
- The walls and flooring are reported to be satisfactory

SANBORN HIGH SCHOOL (Cont.)

Site Information:

- School-day parking and event parking are reported to be satisfactory
- Field space is viewed as satisfactory
- Areas for pick-up and drop-off are reported to be satisfactory
- Proximity to traffic is reported to be satisfactory – a Resource Officer directs traffic at the start and end of school

Storage:

- Storage for administrative, custodial and kitchen supplies is viewed as satisfactory
- Storage space for classroom supplies is viewed as inadequate

OPTIONS



OPTIONS NOT BROUGHT FORWARD

NESDEC reviewed multiple options. Some potential options were not brought forward by the Team because they did not provide sufficient capacity to accommodate projected enrollments.

OPTIONS NOT BROUGHT FORWARD

Option NA1

Description: Reconfigure elementary grade levels, consolidating amongst two buildings in grade level spans

Grade Level Alignment

- Grades PK-2 at Memorial Elementary School
- Grades 3-5 at Bakie Elementary School
- Grades 6-8 at Sanborn Middle School
- Grades 9-12 at Sanborn High School

This option is not viable due to insufficient capacity at Memorial Elementary School

Grades PK-2 at Memorial Elementary School

Grades 3-5 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC- Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion- Projected Enrollment Difference	School Year	Projected Enrollment	POC	POC- Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion- Projected Enrollment Difference
2019-20	296	258	-38	232	-64	2019-20	283	495	212	446	163
2020-21	277	258	-19	232	-45	2020-21	272	495	223	446	174
2021-22	290	258	-32	232	-58	2021-22	268	495	227	446	178
2022-23	292	258	-34	232	-60	2022-23	246	495	249	446	200
2023-24	301	258	-43	232	-69	2023-24	227	495	268	446	219
2024-25	295	258	-37	232	-63	2024-25	238	495	257	446	208
2025-26	294	258	-36	232	-62	2025-26	240	495	255	446	206
2026-27	297	258	-39	232	-65	2026-27	247	495	248	446	199
2027-28	298	258	-40	232	-66	2027-28	240	495	255	446	206

OPTIONS NOT BROUGHT FORWARD

Option NA2

Description: Create one PK-4 building at Bakie Elementary School and close Memorial Elementary School. Grade 5 moves to the middle school, renovate middle school

Grade Level Alignment

- Grades PK-4 at Bakie Elementary School
- Grades 5-8 at Sanborn Middle School
- Grades 9-12 at Sanborn High School

This option is not viable due to insufficient capacity at Bakie Elementary School.

PreK-4 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion-Projected Enrollment Difference
2019-20	478	438	-40	394	-84
2020-21	471	438	-33	394	-77
2021-22	457	438	-19	394	-63
2022-23	448	438	-10	394	-54
2023-24	453	438	-15	394	-59
2024-25	454	438	-16	394	-60
2025-26	463	438	-25	394	-69
2026-27	458	438	-20	394	-64
2027-28	458	438	-20	394	-64

Grades 5-8 at the Middle School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion-Projected Enrollment Difference
2019-20	407	399	-8	359	-48
2020-21	370	399	29	359	-11
2021-22	373	399	26	359	-14
2022-23	364	399	35	359	-5
2023-24	339	399	60	359	20
2024-25	340	399	59	359	19
2025-26	311	399	88	359	48
2026-27	307	399	92	359	52
2027-28	311	399	88	359	48

OPTIONS

Using information gained from its analysis of the enrollment projections, coupled with its instructional programming/facility capacity analysis, NESDEC has analyzed potential alternatives for the District to review as it moves forward in the development of a Long-Range Facility Plan.

The alternatives that the NESDEC Team is presenting include a bulleted outline description of each option as well as a listing of advantages and challenges. The options are designed to serve as a catalyst for further analysis and discussion. Thus, this document should be considered not as an end-product, but rather as a beginning point for future planning.

OPTION I

Option IA

Description: Reconfigure elementary grade levels, consolidating amongst two buildings in grade level spans

Grade Level Alignment

- Grades PK-2 at Bakie Elementary School
- Grades 3-5 at Memorial Elementary School
- Grades 6-8 at Sanborn Middle School
- Grades 9-12 at Sanborn High School

PK-2 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion-Projected Enrollment Difference
2019-20	296	438	142	394	98
2020-21	277	438	161	394	117
2021-22	290	438	148	394	104
2022-23	292	438	146	394	102
2023-24	301	438	137	394	93
2024-25	295	438	143	394	99
2025-26	294	438	144	394	100
2026-27	297	438	141	394	97
2027-28	298	438	140	394	96

Grades 3-5 at Memorial Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion-Projected Enrollment Difference
2019-20	283	275	-8	248	-35
2020-21	272	275	3	248	-24
2021-22	268	275	7	248	-20
2022-23	246	275	29	248	2
2023-24	227	275	48	248	21
2024-25	238	275	37	248	10
2025-26	240	275	35	248	8
2026-27	247	275	28	248	1
2027-28	240	275	35	248	8

OPTION I (Cont'd)

Option IA (Cont'd)

Advantages:

- There will be sufficient capacity to accommodate grade level instruction at Bakie Elementary School
- Grade span configuration affords facilitation of collaboration, coordination, and communication amongst grade level educators
- With this option's grade level alignment, the Middle School and the High School have sufficient capacity to accommodate enrollment from 2019-2028

Challenges:

- Through SY '21, there is insufficient capacity to accommodate grade level instruction at Memorial, allowing for the 10% POC cushion
- Need to realign school boundaries
- Increased travel time for some parents and students
- Expanded school bussing for elementary students
- Increased student transitions from three to four

OPTION 1 (Cont'd)

Option IB

Description: Reconfigure elementary grade levels, consolidating amongst two buildings in grade level spans

Grade Level Alignment

- Grades PK-1 at Memorial Elementary School
- Grades 2-5 at Bakie Elementary School
- Grades 6-8 at Sanborn Middle School
- Grades 9-12 at Sanborn High School

Grades PK-1 at Memorial Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	206	258	52	232	26
2020-21	203	258	55	232	29
2021-22	211	258	47	232	21
2022-23	222	258	36	232	10
2023-24	215	258	43	232	17
2024-25	215	258	43	232	17
2025-26	216	258	42	232	16
2026-27	218	258	40	232	14
2027-28	220	258	38	232	12

Grades 2-5 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	373	475	102	428	55
2020-21	346	475	129	428	82
2021-22	347	475	128	428	81
2022-23	316	475	159	428	112
2023-24	313	475	162	428	115
2024-25	318	475	157	428	110
2025-26	318	475	157	428	110
2026-27	326	475	149	428	102
2027-28	318	475	157	428	110

OPTION I (Cont'd)

Option IB (Cont'd)

Advantages:

- There will be sufficient capacity to accommodate grade level instruction at each elementary school
- With this option's grade level alignment, the Middle School and the High School have sufficient capacity to accommodate enrollment from 2019-2028
- Grade span configuration affords facilitation of collaboration, coordination, and communication amongst grade level educators

Challenges:

- Need to realign school boundaries
- Increased travel time for some parents and students
- Expanded school bussing for elementary students
- Increased student school transitions from three to four

OPTION II

Option II

Description: Close Memorial Elementary School and reassign PK-5 students to Bakie Elementary School, adding on to accommodate increased enrollment

- Assign PK-5 to Bakie Elementary School, adding on to accommodate increased enrollment
- Close Memorial Elementary School
- NOTE: Middle and High School have sufficient capacity to accommodate projected grade level enrollments from 2019-20 through 2027-28

Grade Level Alignment

- Grades PK-5 at Bakie Elementary School
- Grades 6-8 at Sanborn Middle School
- Grades 9-12 at Sanborn High School

Grades PK-5 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	579	458	-121	412	-167
2020-21	549	458	-91	412	-137
2021-22	558	458	-100	412	-146
2022-23	538	458	-80	412	-126
2023-24	528	458	-70	412	-116
2024-25	533	458	-75	412	-121
2025-26	534	458	-76	412	-122
2026-27	544	458	-86	412	-132
2027-28	538	458	-80	412	-126

OPTION II (Cont'd)

Option II (Cont'd)

Advantages:

- With an addition of a minimum of five to seven classrooms, there will be sufficient capacity to accommodate grade level instruction
- PreK-5 configuration facilitates collaboration, coordination, and communication amongst grade level educators
- Eliminates the need to realign school borders to adjust for enrollment changes
- Reduces instances where classroom enrollments might exceed best practice standards
- Newly constructed classroom spaces would meet current standards and codes
- Potential utilization of vacated Memorial facility by Newton municipal and civic organizations

NOTE: Middle and High School have sufficient capacity to accommodate projected grade level enrollments from 2019-20 through 2027-28

Challenges: Each listed below would require additional analysis by the district

- The costs associated with the construction of an addition (inclusive of design, permitting, site development, building cost, etc.)
- The process timeline for the construction of an addition
- Accommodating increased parking, bussing and field space needs
- It is questionable as to whether there is adequate space to accommodate art, music, specialized education, physical education and lunchroom capacity
- Increased travel time for some parents and students
- Expanded school bussing

OPTION III

Option IIIA

Description: Close middle school

Grade Level Alignment

- PK-5 at Memorial Elementary School and PK-5 at Bakie Elementary School
- 6-12 at the Sanborn High School

PK-5 at Memorial Elementary School and PK-5 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	579	711	132	640	61
2020-21	549	711	162	640	91
2021-22	558	711	153	640	82
2022-23	538	711	173	640	102
2023-24	528	711	183	640	112
2024-25	533	711	178	640	107
2025-26	534	711	177	640	106
2026-27	544	711	167	640	96
2027-28	538	711	173	640	102

Grades 6-12 at the High School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	887	1,056	169	950	63
2020-21	857	1,056	199	950	93
2021-22	813	1,056	243	950	137
2022-23	776	1,056	280	950	174
2023-24	772	1,056	284	950	178
2024-25	723	1,056	333	950	227
2025-26	705	1,056	351	950	245
2026-27	675	1,056	381	950	275
2027-28	653	1,056	403	950	297

OPTION III (Cont'd)

Option IIIA (Cont'd)

Advantages:

- Potential utilization of vacated Middle School facility by Newton municipal and civic organizations
- Operational savings due to the closure of the middle school
- Assigned grade 6 and 7 students would have to access to a 21st century facility
- Facilitates collaboration, communication and coordination amongst grades 6-12 educators (for example, mathematics, sciences, etc.)
- Provides opportunities for grade 8 students to participate in some high school programming
- The high school has adequate capacity to accommodate grade configuration
- Decreases student school transitions from three to two

Challenges:

- Memorial would not have a 10% capacity cushion until SY '20-21
- Realigning high school spaces to accommodate separate middle and high school programming sometimes requires that:
 - Fewer classrooms may be designated for prep periods, as compared to the present schedule – individual classroom educators may have less frequent access to their classrooms during prep periods
 - Class size minimums may be increased (NESDEC has noted that class size minimums for certain electives and AP classes are often in the 10 -12 student range.) In order to address class size minimum issues, some districts implement the following:
 - Some electives are offered in alternate years,
 - Upper level World languages combined – Example French 3-4, Spanish 3-4
 - On-line courses could be offered for minimally enrolled courses, for example, AP or engineering/technology offerings

OPTION III (Cont'd)

Option IIIA (Cont'd)

Challenges:

- Possible need to relocate central office spaces to another facility to accommodate middle school and high school instructional spaces
- Requires advanced planning and organization of shared high school instructional spaces, for example, gymnasium, nurse's office, art and music spaces, library, etc.
- Need to adjust High School transportation routes to accommodate Grades 6-8 at the High School

OPTION III (Cont'd)

Option IIIB

Description: Close middle school

Grade Level Alignment

- PreK-6 at Memorial Elementary School and PK-6 at Bakie Elementary School
- 7-12 at the High School

PK-6 at Memorial Elementary School and PreK-6 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	674	711	37	640	-34
2020-21	646	711	65	640	-6
2021-22	633	711	78	640	7
2022-23	635	711	76	640	5
2023-24	615	711	96	640	25
2024-25	605	711	106	640	35
2025-26	610	711	101	640	30
2026-27	612	711	99	640	28
2027-28	621	711	90	640	19

Grades 7-12 at the High School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	792	1,056	264	950	158
2020-21	760	1,056	296	950	190
2021-22	738	1,056	318	950	212
2022-23	679	1,056	377	950	271
2023-24	685	1,056	371	950	265
2024-25	651	1,056	405	950	299
2025-26	629	1,056	427	950	321
2026-27	607	1,056	449	950	343
2027-28	570	1,056	486	950	380

OPTION III (Cont'd)

Option IIIB (Cont'd)

Advantages:

- Potential utilization of vacated Middle School facility by Newton municipal and civic organizations
- Operational savings due to the closure of the middle school
- Assigned grade 7 and 8 students would have to access to a 21st century facility
- Facilitates collaboration, communication and coordination amongst grades 7-12 educators (for example, mathematics, sciences, etc.)
- Provides opportunities for grade 8 students to participate in some high school programming
- The high school has adequate capacity to accommodate grade configuration

Challenges:

- Beginning in SY '21-22 through SY '27-28, Memorial would have sufficient capacity to accommodate projected enrollments (note: Memorial would not have a 10% capacity cushion until SY '26-27); however, if enrollments should exceed capacity due to unexpected growth in the community or, if a particular grade level enrollment should exceed capacity, it may be necessary to realign school boundaries and re-assign some Memorial students to Bakie.
- Reassigning elementary spaces to adequately accommodate grade 6 (art, music, special education, physical education and lunchroom capacity; this would require advance planning)
- Potential need to adjust elementary transportation routes in the event that some Memorial students are assigned to Bakie
- Accommodating grade 6 at the elementary school and grades 7-8 at the high school will need advance planning
- Need to realign school boundaries and transportation routes – including moving Grade 6 to the elementary and Grades 7-8 to the High School

OPTION III (Cont'd)

Option IIIB (Cont'd)

Challenges:

- Realigning high school spaces to accommodate separate middle and high school programming sometimes requires that:
 - Fewer classrooms may be designated for prep periods, as compared to the present schedule – individual classroom educators may have less frequent access to their classrooms during prep periods
 - Class size minimums may be increased (NESDEC has noted that class size minimums for certain electives and AP classes are often in the 10 -12 student range.) In order to address class size minimum issues, some districts implement the following:
 - Some electives are offered in alternate years,
 - Upper level World languages combined – Example French 3-4, Spanish 3-4
 - On-line courses could be offered for minimally enrolled courses, for example, AP or engineering/technology offerings
- Possible need to relocate central office spaces to another facility to accommodate middle school and high school instructional spaces
- Requires advanced planning and organization of shared high school instructional spaces, for example, gymnasium, nurse's office, art and music spaces, library, etc.

OPTION III (Cont'd)

Option IIIC

Description: Close middle school

Grade Level Alignment

- PK-1 at Memorial Elementary School
- Grades 2-5 at Bakie Elementary School
- 6-12 at the High School

PK-1 at Memorial Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	206	253	47	228	22
2020-21	203	253	50	228	25
2021-22	211	253	42	228	17
2022-23	222	253	31	228	6
2023-24	215	253	38	228	13
2024-25	215	253	38	228	13
2025-26	216	253	37	228	12
2026-27	218	253	35	228	10
2027-28	220	253	33	228	8

Grade 2-5 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	373	458	85	412	39
2020-21	346	458	112	412	66
2021-22	347	458	111	412	65
2022-23	316	458	142	412	96
2023-24	313	458	145	412	99
2024-25	318	458	140	412	94
2025-26	318	458	140	412	94
2026-27	326	458	132	412	86
2027-28	318	458	140	412	94

OPTION III (Cont'd)

**Option IIIC
Grades 6-
12 at the
High School**

School Year	Projected Enrollment	POC	POC -Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	887	1,056	169	950	63
2020-21	857	1,056	199	950	93
2021-22	813	1,056	243	950	137
2022-23	776	1,056	280	950	174
2023-24	772	1,056	284	950	178
2024-25	723	1,056	333	950	227
2025-26	705	1,056	351	950	245
2026-27	675	1,056	381	950	275
2027-28	653	1,056	403	950	297

Advantages:

- Potential utilization of vacated Middle School facility by Newton municipal and civic organizations
- Operational savings due to the closure of the middle school
- Assigned grades 6, 7 and 8 students would have access to a 21st century facility
- Facilitates collaboration, communication and coordination amongst all grade level educators
- Provides opportunities for grade 8 students to participate in some high school programming
- The high school has adequate capacity to accommodate grade configuration

OPTION III (Cont'd)

Option IIIC

Challenges:

- Need to realign all school boundaries and transportation routes
- Realigning high school spaces to accommodate separate middle and high school programming sometimes requires that:
 - Fewer classrooms may be designated for prep periods, as compared to the present schedule – individual classroom educators may have less frequent access to their classrooms during prep periods
 - Class size minimums may be increased (NESDEC has noted that class size minimums for certain electives and AP classes are often in the 10 -12 student range.) In order to address class size minimum issues, some districts implement the following:
 - Some electives are offered in alternate years
 - Upper level World languages combined – Example French 3-4, Spanish 3-4
 - On-line courses could be offered for minimally enrolled courses, for example, AP or engineering/technology offerings
- Possible need to relocate central office spaces to another facility to accommodate middle school and high school instructional spaces
- Requires advanced planning and organization of shared high school instructional spaces, for example, gymnasium, nurse's office, art and music spaces, library, etc.

OPTION III (Cont'd)

Option IIID

Description: Close middle school

Grade Level Alignment

- PK-1 at Memorial Elementary School
- Grades 2-6 at Bakie Elementary School
- 7-12 at the High School

PK-1 at Memorial Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	206	253	47	228	22
2020-21	203	253	50	228	25
2021-22	211	253	42	228	17
2022-23	222	253	31	228	6
2023-24	215	253	38	228	13
2024-25	215	253	38	228	13
2025-26	216	253	37	228	12
2026-27	218	253	35	228	10
2027-28	220	253	33	228	8

Grade 2-6 at Bakie Elementary School

School Year	Projected Enrollment	POC	POC - Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion - Projected Enrollment Difference
2019-20	474	458	-16	412	-62
2020-21	424	458	34	412	-12
2021-22	448	458	10	412	-36
2022-23	406	458	52	412	6
2023-24	388	458	70	412	24
2024-25	397	458	61	412	15
2025-26	389	458	69	412	23
2026-27	412	458	46	412	0
2027-28	398	458	60	412	14

OPTION III (Cont'd)

**Option IIID
Grades 7-12 at the
High School**

School Year	Projected Enrollment	POC	POC -Projected Enrollment Difference	POC with 10% Capacity Cushion	POC with 10% Capacity Cushion -Projected Enrollment Difference
2019-20	792	1,056	264	950	158
2020-21	760	1,056	296	950	190
2021-22	738	1,056	318	950	212
2022-23	679	1,056	377	950	271
2023-24	685	1,056	371	950	265
2024-25	651	1,056	405	950	299
2025-26	629	1,056	427	950	321
2026-27	607	1,056	449	950	343
2027-28	570	1,056	486	950	380

Advantages:

- Potential utilization of vacated Middle School facility by Newton municipal and civic organizations
- Operational savings due to the closure of the middle school
- Assigned grades 7 and 8 students would have to access to a 21st century facility
- Facilitates collaboration, communication and coordination amongst all grade level educators
- Provides opportunities for grade 8 students to participate in some high school programming
- The high school has adequate capacity to accommodate grade configuration

OPTION III (Cont'd)

Option IIID

Challenges:

- For the first school year, there is not sufficient capacity at Bakie for this option; for the first three years, there is not sufficient 10% cushion capacity at Bakie
- Need to realign all school boundaries and transportation routes for all schools
- Realigning high school spaces to accommodate separate middle and high school programming sometimes requires that:
 - Fewer classrooms may be designated for prep periods, as compared to the present schedule – individual classroom educators may have less frequent access to their classrooms during prep periods
 - Class size minimums may be increased (NESDEC has noted that class size minimums for certain electives and AP classes are often in the 10 -12 student range.) In order to address class size minimum issues, some districts implement the following:
 - Some electives are offered in alternate years,
 - Upper level World languages combined – Example French 3-4, Spanish 3-4
 - On-line courses could be offered for minimally enrolled courses, for example, AP or engineering/technology offerings
- Possible need to relocate central office spaces to another facility to accommodate middle school and high school instructional spaces
- Requires advanced planning and organization of shared high school instructional spaces, for example, gymnasium, nurse's office, art and music spaces, library, etc.

OPTION IV

Option IV

Description: Central Office moves to one wing in the high school

Advantages:

- Consolidation of central office spaces to one area, with a separate entrance, provides opportunities increased collaboration, communication, and coordination amongst central office staff
- Provides more contiguous instructional spaces for students and staff

Challenges:

- Potential cost for converting classroom space to office space
- Reallocating high school instructional spaces to accommodate the central office in one contiguous location



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SCHOOL BOARD QUESTIONS

