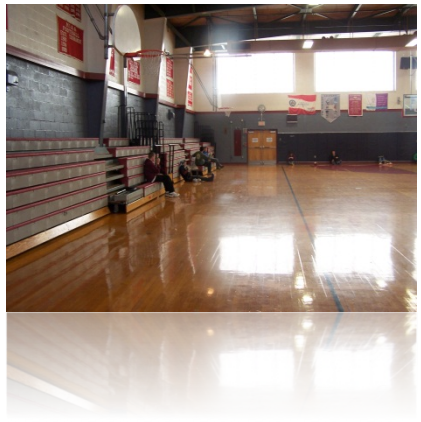
Millis Public Schools



February 25, 2014

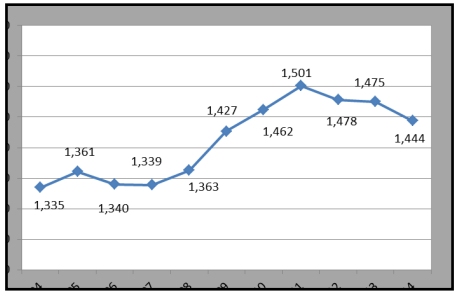
Master Plan & Building Facilities Study

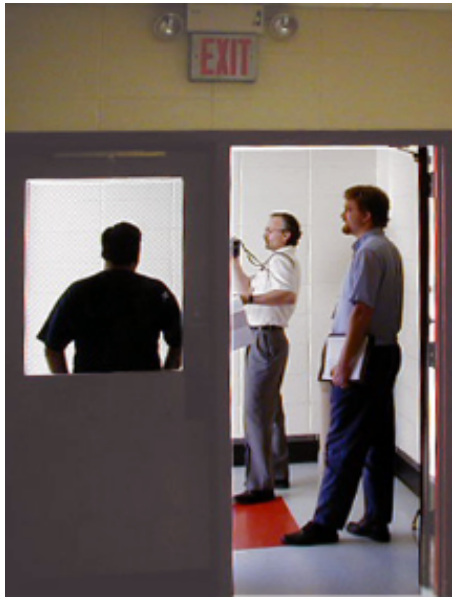
Millis Public Schools
Millis, Massachusetts

TETRA TECH
ARCHITECTS & ENGINEERS

Master Plan & Factices Evaluation

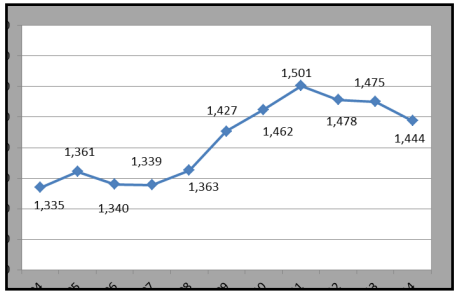
1. Overview of Study
2. Findings
3. Recommendations
4. Next Steps…

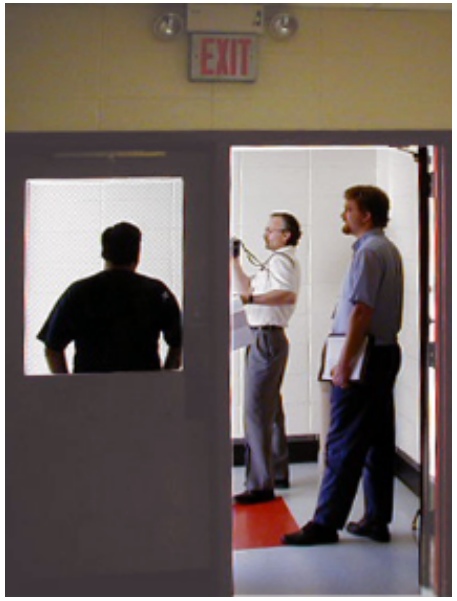




Agenda for Tonight

1. Enrollment Projections
2. Online Survey
3. Facilities Evaluation
4. Master Planning





Enrollment Projection Method

Cohort survival coefficient 5 & 10 year

Factored birth rates, housing starts

Considered local/regional population trends

Hybrid projection model (MSBA)

Projected Population Changes

GAF site – no final use plans determined

Lack of prime residential developable land

Stable town population 2000-2010 – getting older

Declining number of younger children 0-5

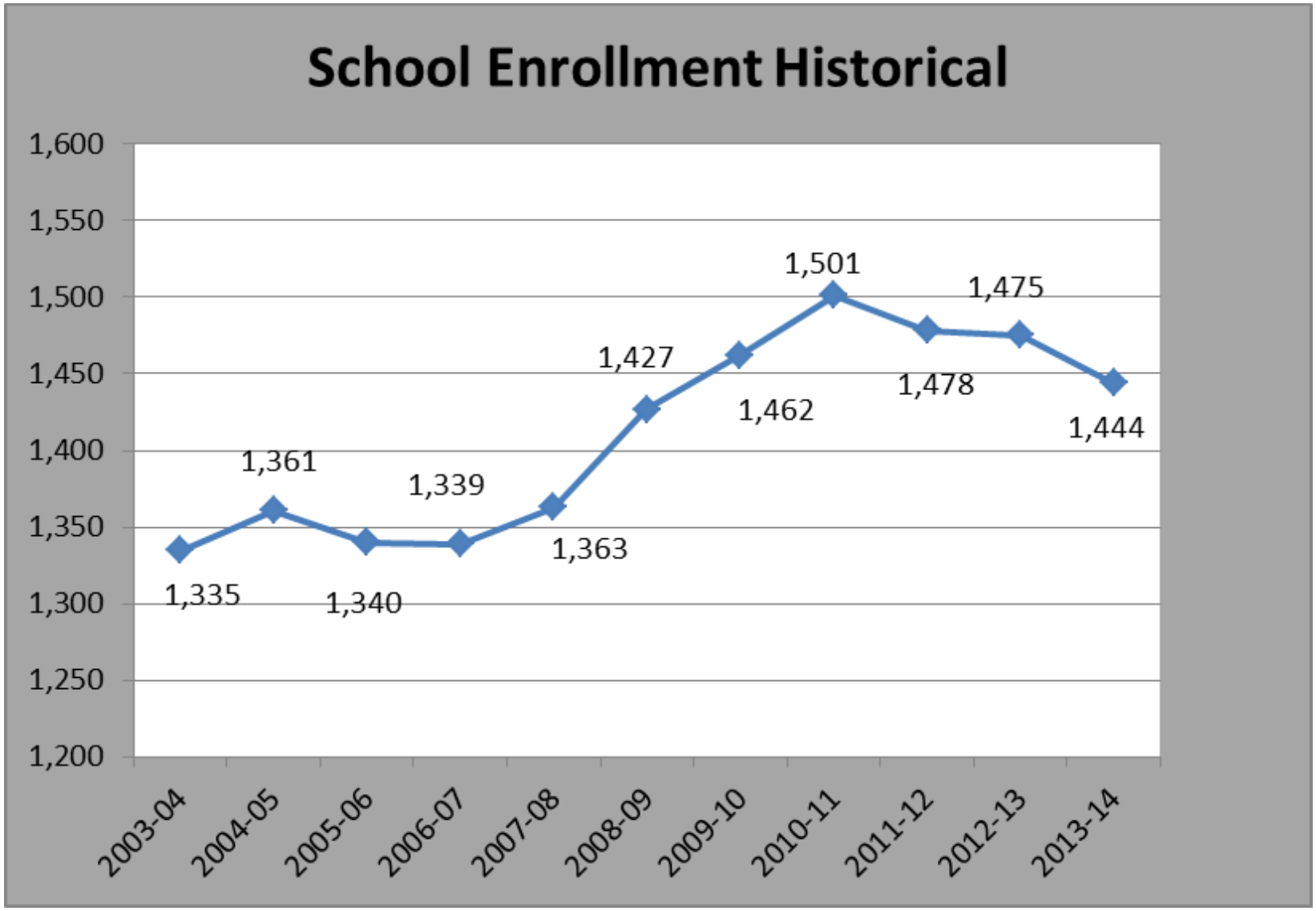
Historical View of Enrollment

Largest enrollment: 1,501 (2010-11)

Smallest: 1,335 (2003-04)

Average over past 11 years (1,401)

Largest incoming Kindergarten: 123 ('08-09)


School Enrollment Historical
1,600
1,550
1,500
1,450
1,400
1,350
1,300
1,250
1,200
1,335
1,361
1,340
1,339
1,363
1,427
1,462
1,501
1,478
1,475
1,444
2003-04
2004-05
2005-06
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14

Effect on Incoming Kindergarten

Smaller Incoming Kindergarten classes

Compresses all grade levels over time

Greater move to full-day K (3:1)

Requires 1-2 added classrooms annually

Has stressed Clyde Brown's space

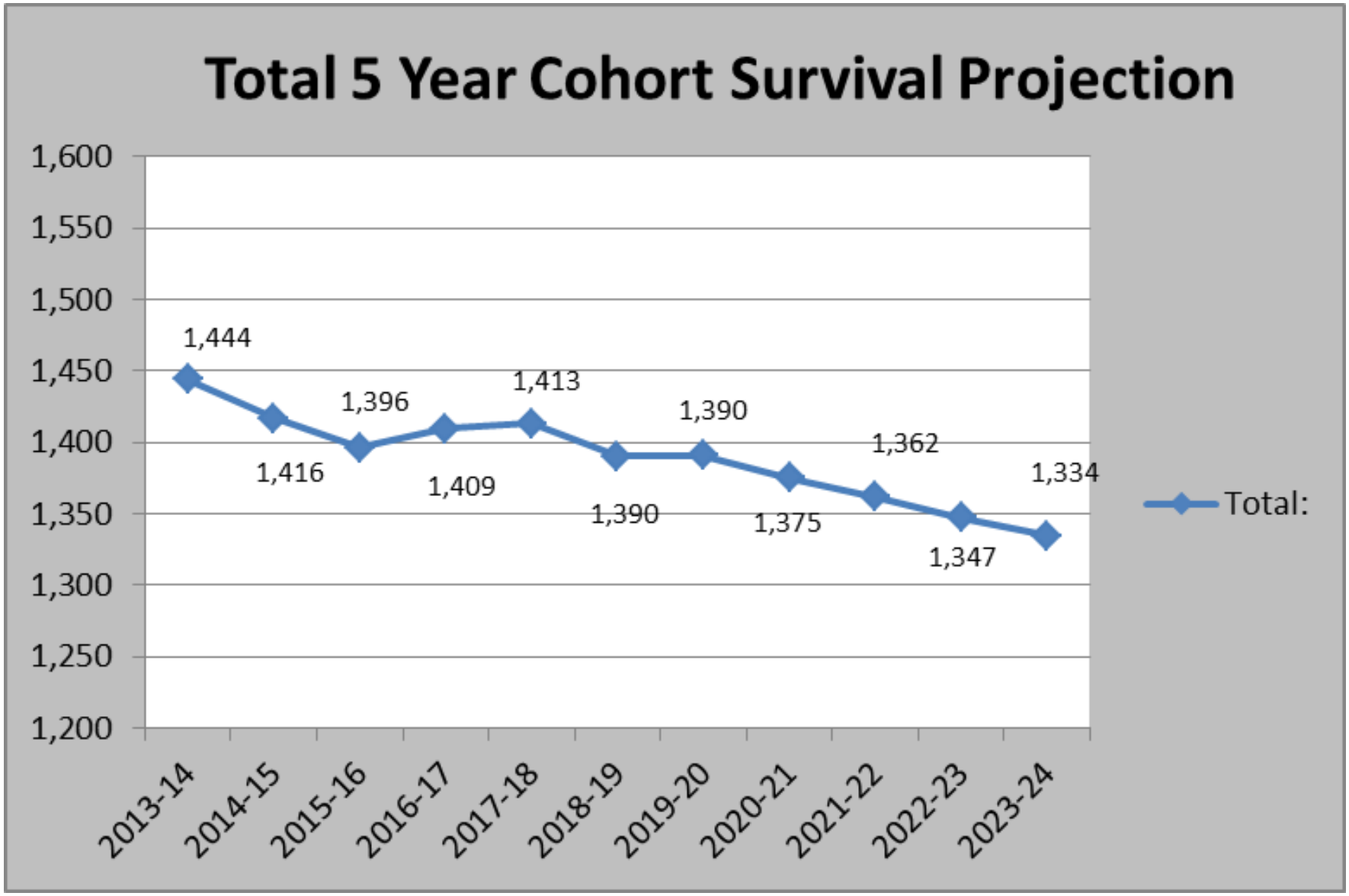
Long Term Projections

Slight enrollment decrease (2014-2024)

5 year model – 4.2% average 5yr reduction

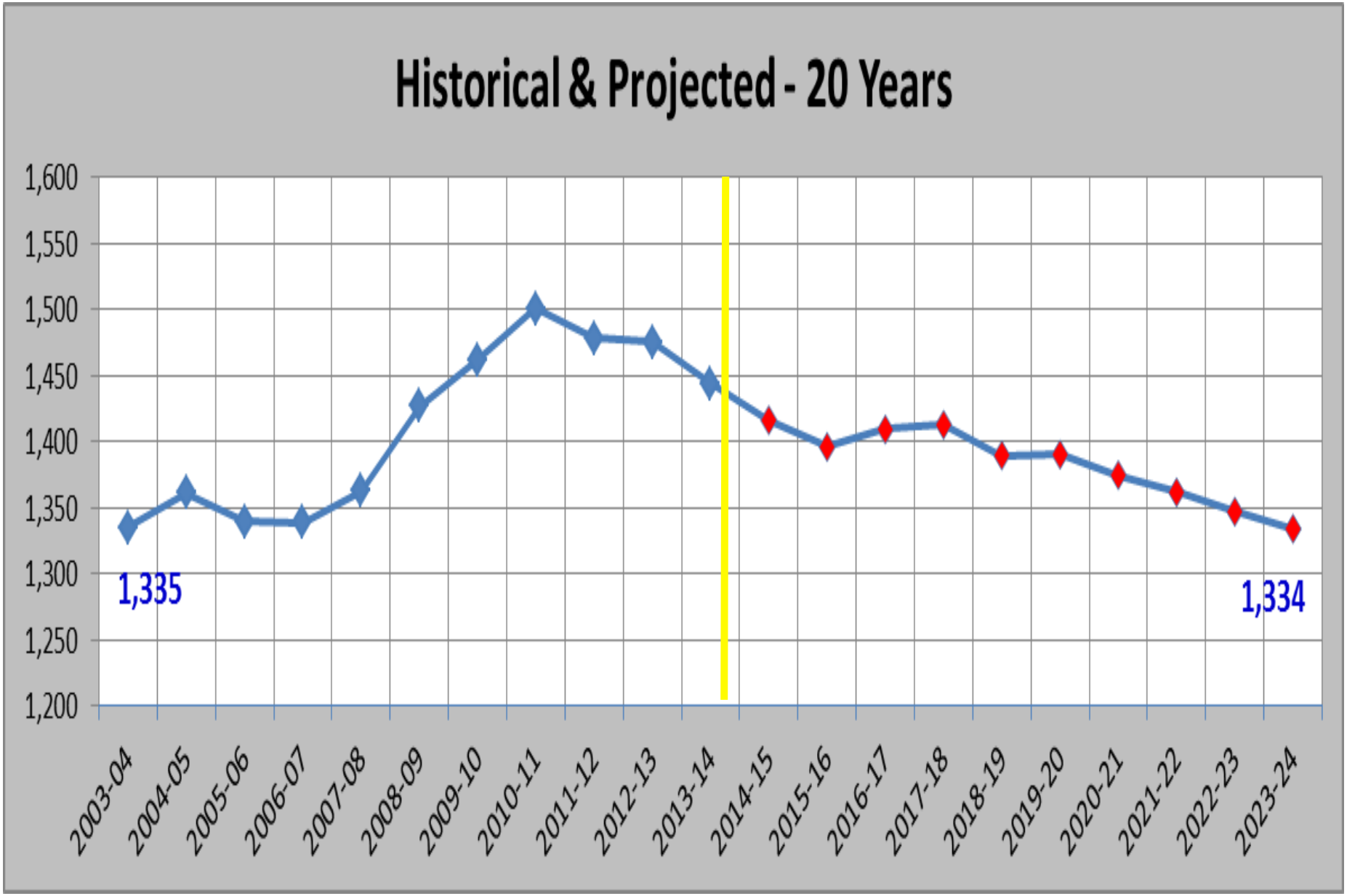
10 year model – 3.8% average 5yr reduction

The "bubble" ('08-09 K) is now in Grades 4/5


Total 5 Year Cohort Survival Projection
1,600
1,550
1,500
1,450
1,400
1,350
1,300
1,250
1,200
1,444
1,416
1,396
1,409
1,413
1,390
1,390
1,375
1,362
1,347
1,334
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
2022-23
2023-24
Total:

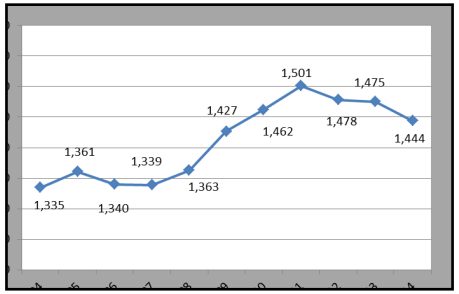
Projection Summary

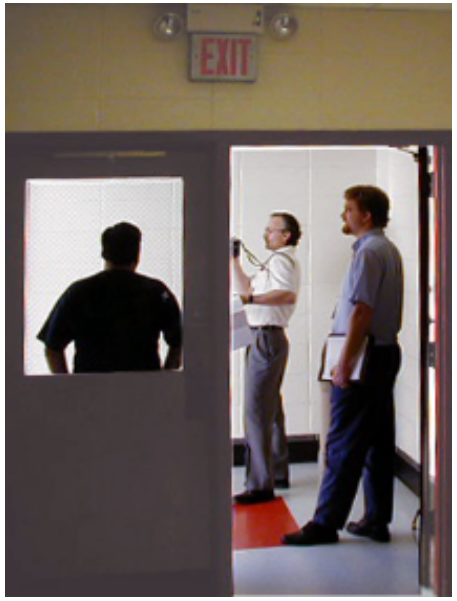
There is no long term anticipated increase in student enrollment that would significantly stress the size of each school and the number of available rooms compared to current conditions.


Historical & Projected - 20 Years
1,600
1,550
1,500
1,450
1,400
1,350
1,300
1,250
1,200
1,335
1,334
2003-04
2004-05
2005-06
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
2022-23
2023-24

Agenda

1. Enrollment Projections
2. **Online Survey**
3. Facilities Evaluation
4. Master Planning





Summary Analysis of Survey

Survey on district web site (Oct-Nov, 2013)

Open to everyone

187 respondents

Input on facility needs

Survey Respondents

Answer Choices	Responses	
Grade K-8 Student	16.0%	30
Grade 9-12 Student	2.1%	4
Current School Parent	55.6%	104
Community Member	1.1%	2
Grade K-8 Teacher	12.3%	23
Grade 9-12 Teacher	4.3%	8
District Staff (other than teacher)	7.0%	13
Other	1.6%	3
Total		187

The 5th Grade Location

Challenges

- Lack of space at Clyde Brown
- Lack of learning resources for fifth graders (tech, unified arts)

Benefits

- More developmentally appropriate
- Separating 5th graders from older students

Students with Disabilities Needs

At Clyde Brown

- Lack of space for therapy services, test accommodation (using closets, music, etc.)

Middle/High School

- Need for smaller spaces, therapy services…
- Need for space impacting all programs
- Need parent parking for meetings

Libraries

Clyde Brown

- Lack of technology & automation
- Need small spaces & conference room

Middle/High School

- Lack dedicated library classroom
- Small spaces for student group work/study

Technology & Hands On Learning

All Schools

Updates computers & hanging projectors

Robust wireless, tablets for each child

Smart boards, easy hook-up

Audio & teleconferencing accessibility

Working telephones in each room

School/Occupant Security

All Schools

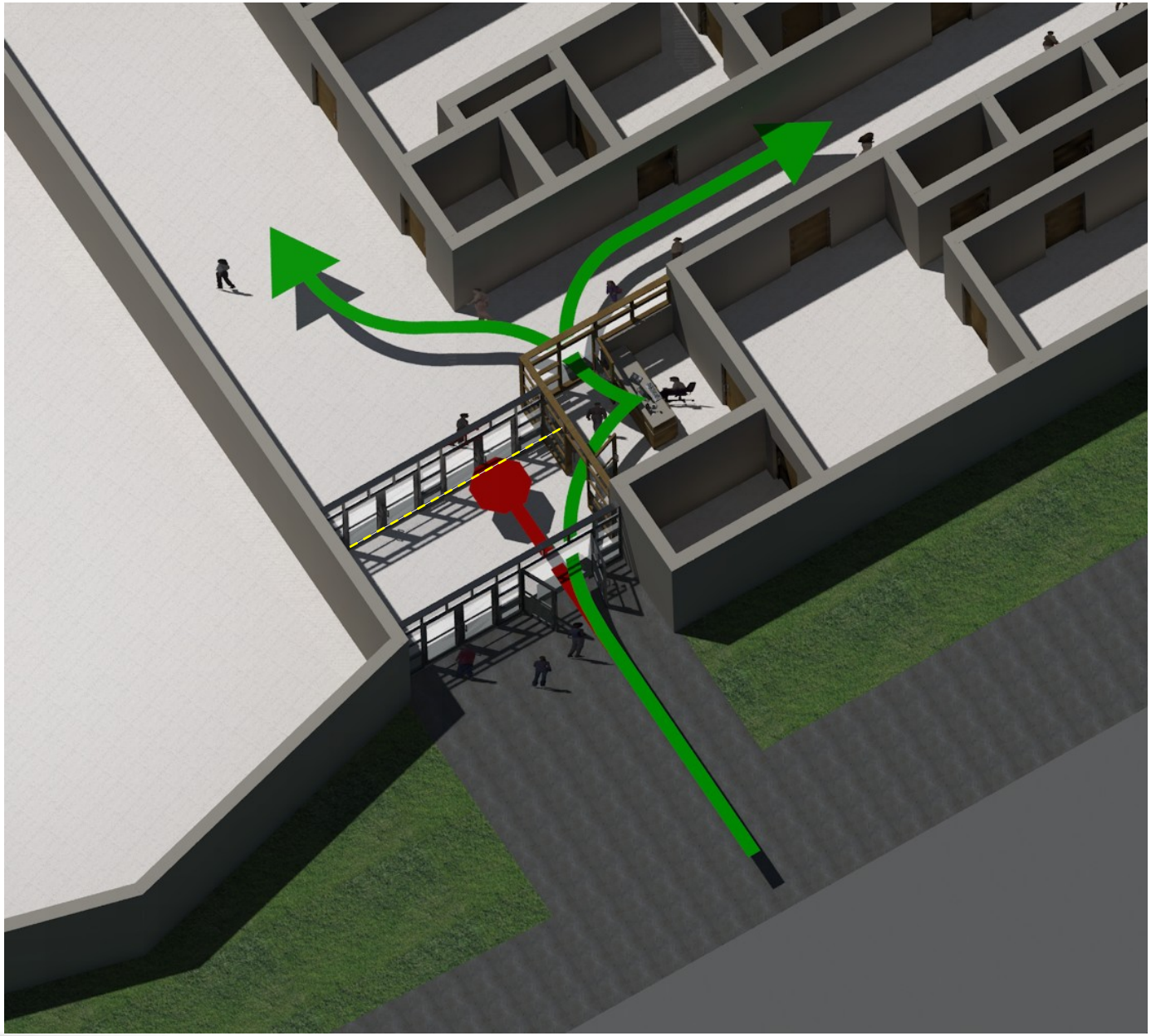
- Need to wear ID badges, and not prop open doors

Clyde Brown

- Dismissal/drop off locations & traffic issues
- Buzz-in system – need second vestibule

Middle/High School

- Buzz-in system – need second vestibule
- Can't lock interconnecting classroom doors



Art & Music

Clyde Brown

- Lack of space for both (use cafeteria often)
- Lack of practice space

Middle/High School

- Lack of space for both
- Band/music in old wood shop area
- Auditorium needs new sound/lighting

Physical Education/Athletics

Clyde Brown

- Lack of access to Town fields limits PE program

Middle/High School

- Lack of quality fields
- Need updated track and main field
- Location/condition of weight room
- More gym space

Facilities Limiting Teaching & Learning

All Schools

- Lack of classrooms = many carts →limits opportunities
- Educational Technology Upgrades
- Athletic fields need to be upgraded
- Lack of quiet/study spaces in Library
- Size of cafeterias – long lunch schedules

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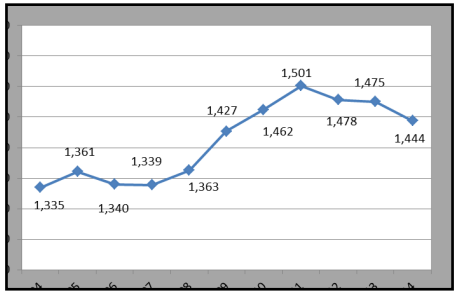

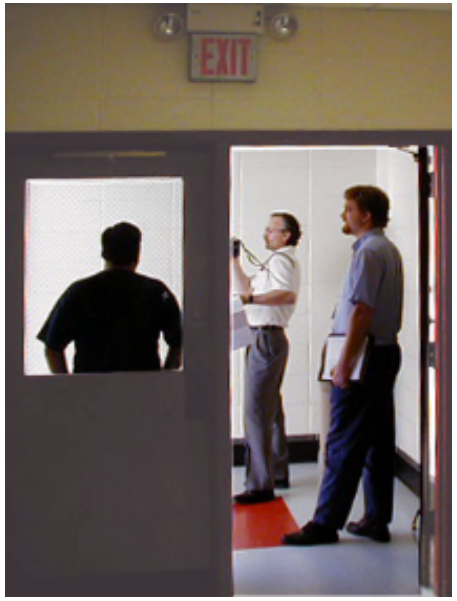

Building Facilities Study

- Team Approach
- Facilities Evaluation Document
  - Scope Items
  - Priorities
  - Construction Budget/Escalation
  - Total Project Costs - Incidentals, Contingency…
  - Interactive Tool
- Long Range Planning

Agenda

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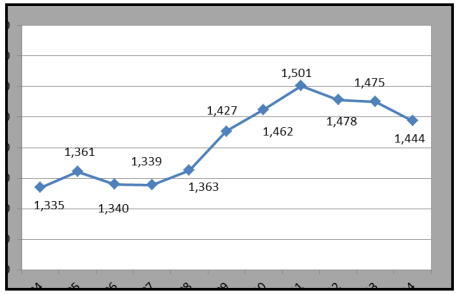
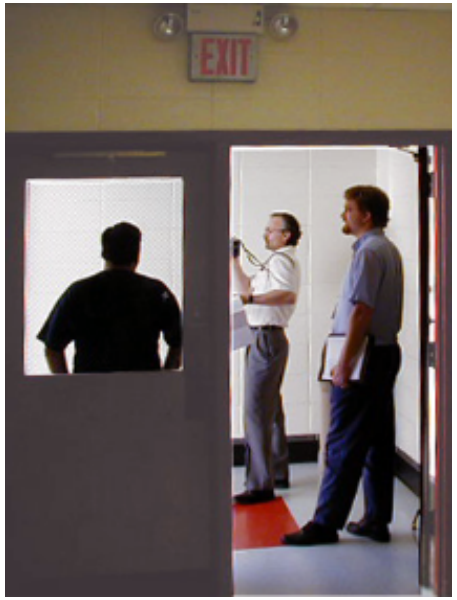
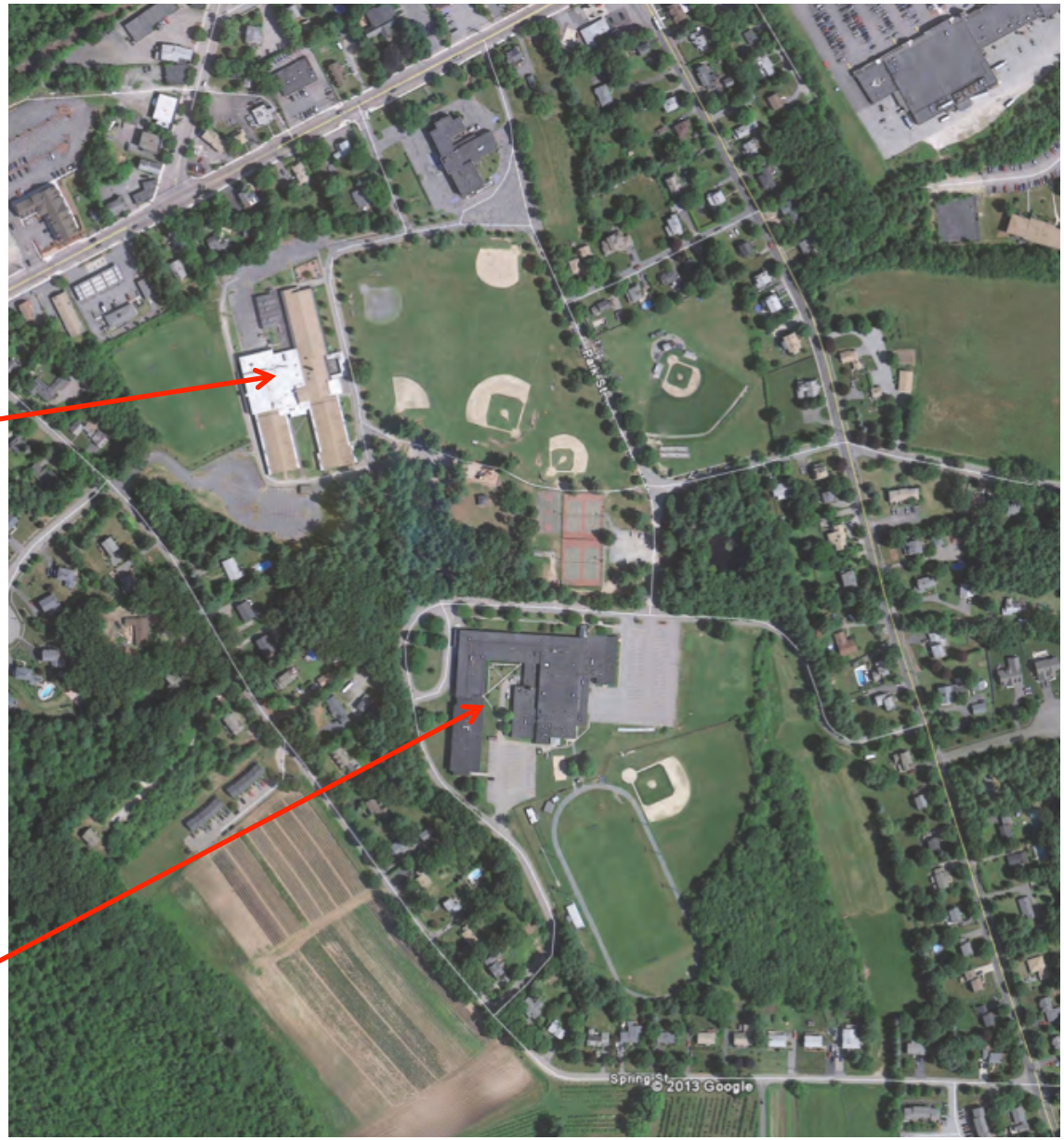


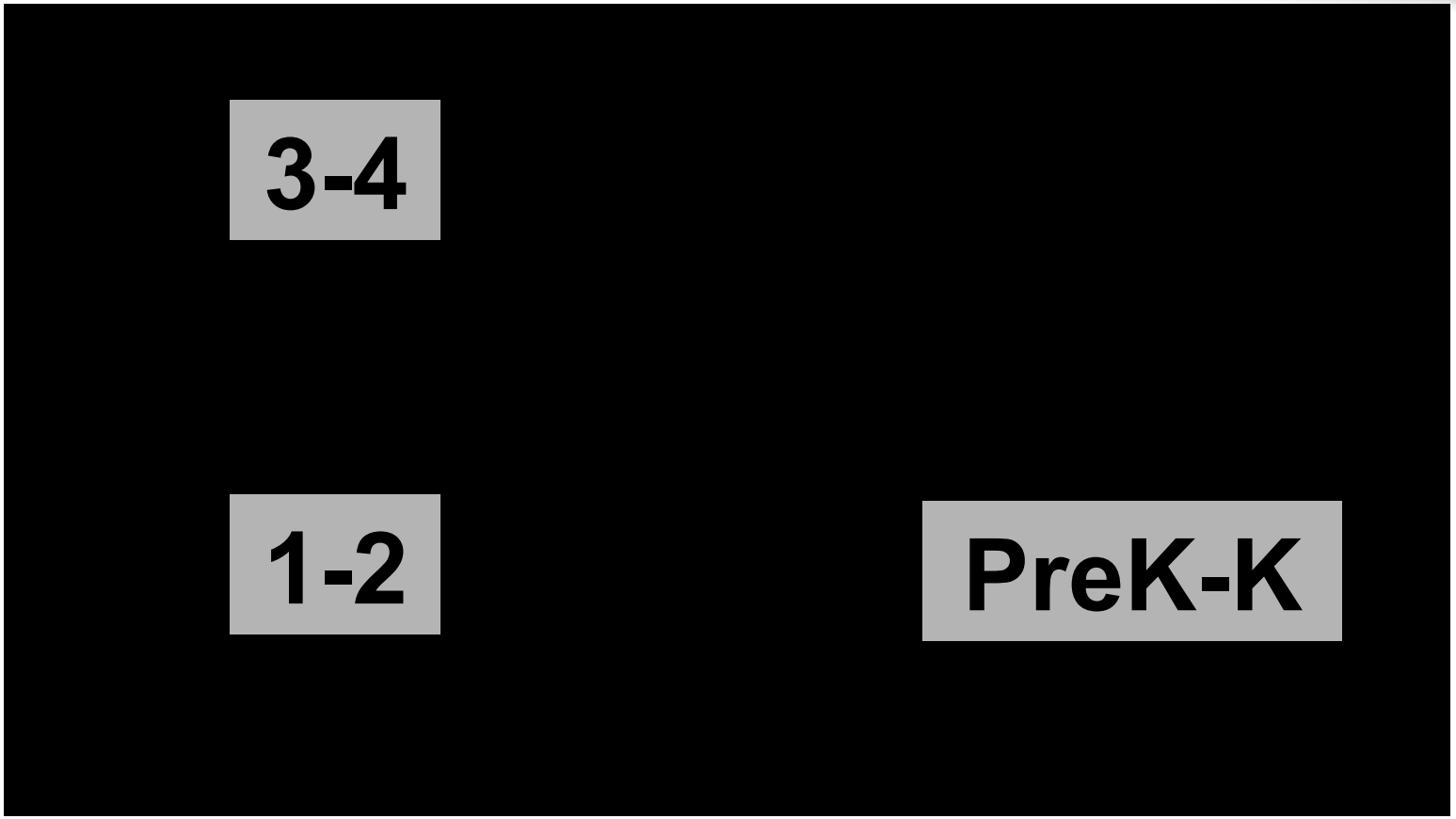


Clyde Brown Elementary School

Millis Middle/High School



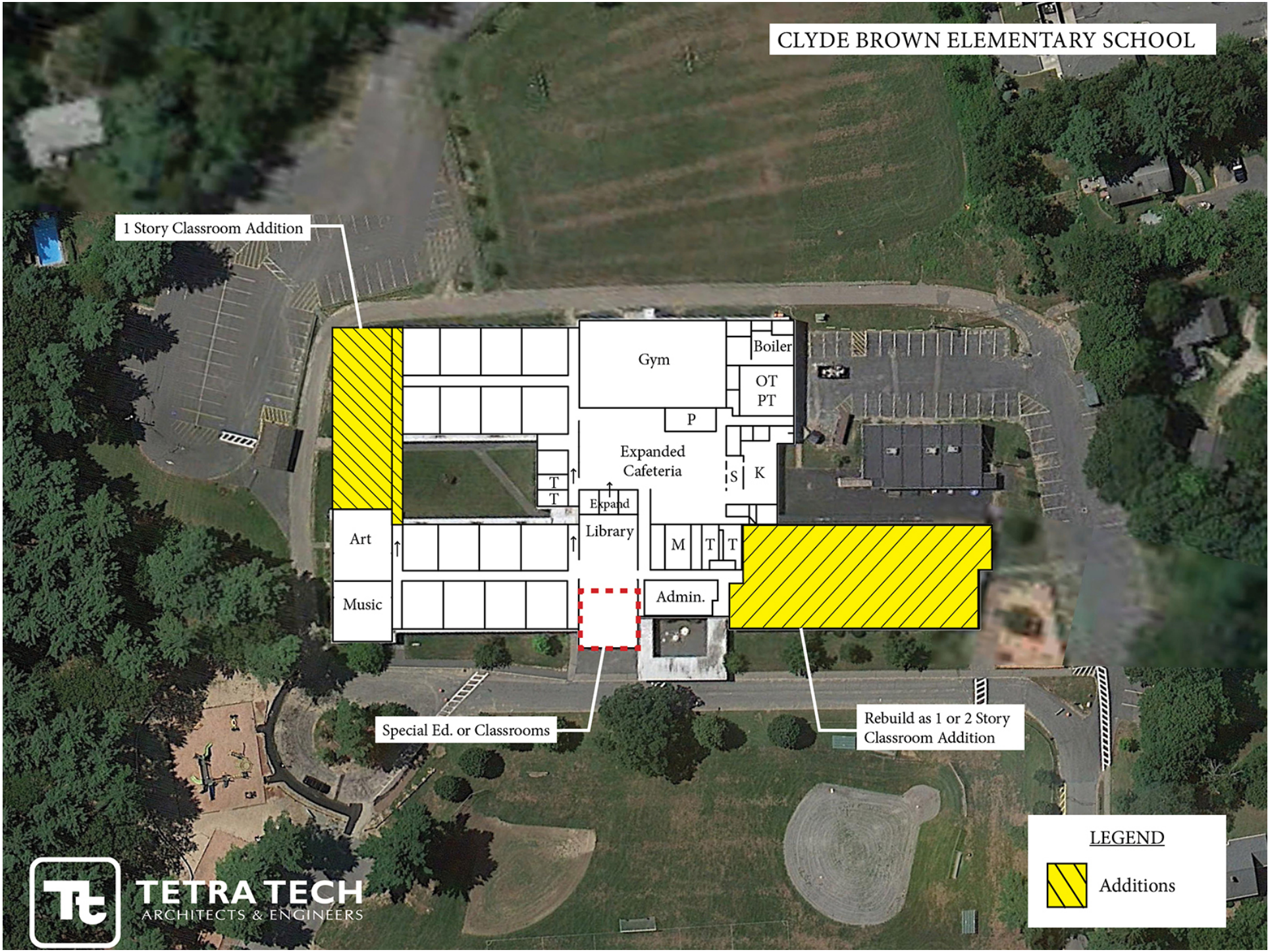
Clyde Brown - EXISTING



EXISTING FIRST FLOOR PLAN

Clyde Brown Elementary

- At Classroom Capacity, but…
- 5th Grade - RECOMMENDATION
- Still look at School Expansion for:
  - Special Education Space
  - Dedicated Music Room
  - Enlarge Cafeteria
  - Reconfigure "Core" to connect classroom wings


CLYDE BROWN ELEMENTARY SCHOOL
1 Story Classroom Addition
Gym
Boiler
OT
PT
P
Expanded
Cafeteria
S
K
T
T
Expand
Library
Art
Music
M
T
T
Admin.
Special Ed. or Classrooms
Rebuild as 1 or 2 Story
Classroom Addition
LEGEND
Additions
TETRA TECH
ARCHITECTS & ENGINEERS

Clyde Brown Elementary

- Accelerated Scope Items
  - Roof
  - Boilers
  - MSBA Accelerated Repair Program
  - Media Center Reconfiguration
- Decline in student population occurs at Clyde Brown first

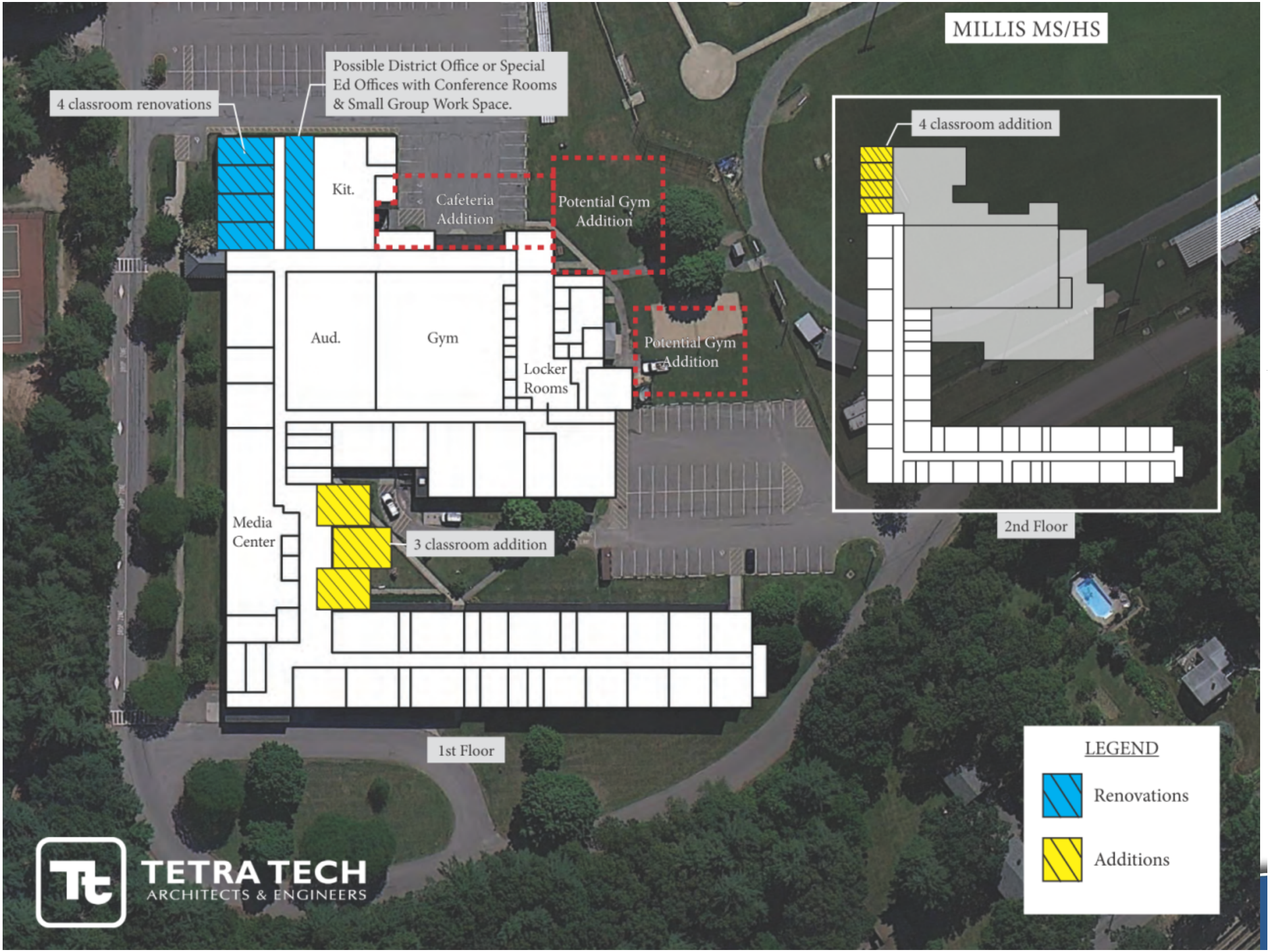
Middle/High School - EXISTING

EXISTING FIRST FLOOR PLAN

EXISTING SECOND FLOOR PLAN

Middle/High School

- Far Over Capacity
- Need for Additional Classrooms
- Approaches to School Expansion
  - Modular Classrooms
  - Location(s) of Additions
- MSBA Capital Project Funding


MILLIS MS/HS
4 classroom renovations
Possible District Office or Special Ed Offices with Conference Rooms & Small Group Work Space.
Kit.
Cafeteria Addition
Potential Gym Addition
Aud.
Gym
Locker Rooms
Potential Gym Addition
Media Center
3 classroom addition
1st Floor
4 classroom addition
2nd Floor
LEGEND
Renovations
Additions
TETRA TECH
ARCHITECTS & ENGINEERS

NEXT STEPS

- Continue making the best of what you have
- MSBA SOI – Core Program
  - Expand Middle/High School
  - Due - April 11, 2014
- MSBA SOI – Accelerated Repair Program
  - Clyde Brown Elementary – Roofs and Boilers
  - 2015 Funding Cycle

Clyde Brown Elementary School

Millis Middle/High School