



Montgomery Knolls Elementary School

Montgomery County Public Schools
Capacity Study Meetings #1 and #2 April 20, 2015



- Introductions
- MCPS Presentation
 - Who, What, Where, When, and Why?
- TLP Presentation
 - Project Understanding
 - What is a Capacity Study?
 - The Capacity Study Process
 - Goals of Today's Meeting
 - Present Design Options
 - Gather Feedback





- Address space shortages at elementary schools in the lower section of the Downcounty Consortium
- Allow superintendent to make recommendations to address the space shortages as part of the FY 2017–2022 Capital Improvements Program (CIP) in October 2015

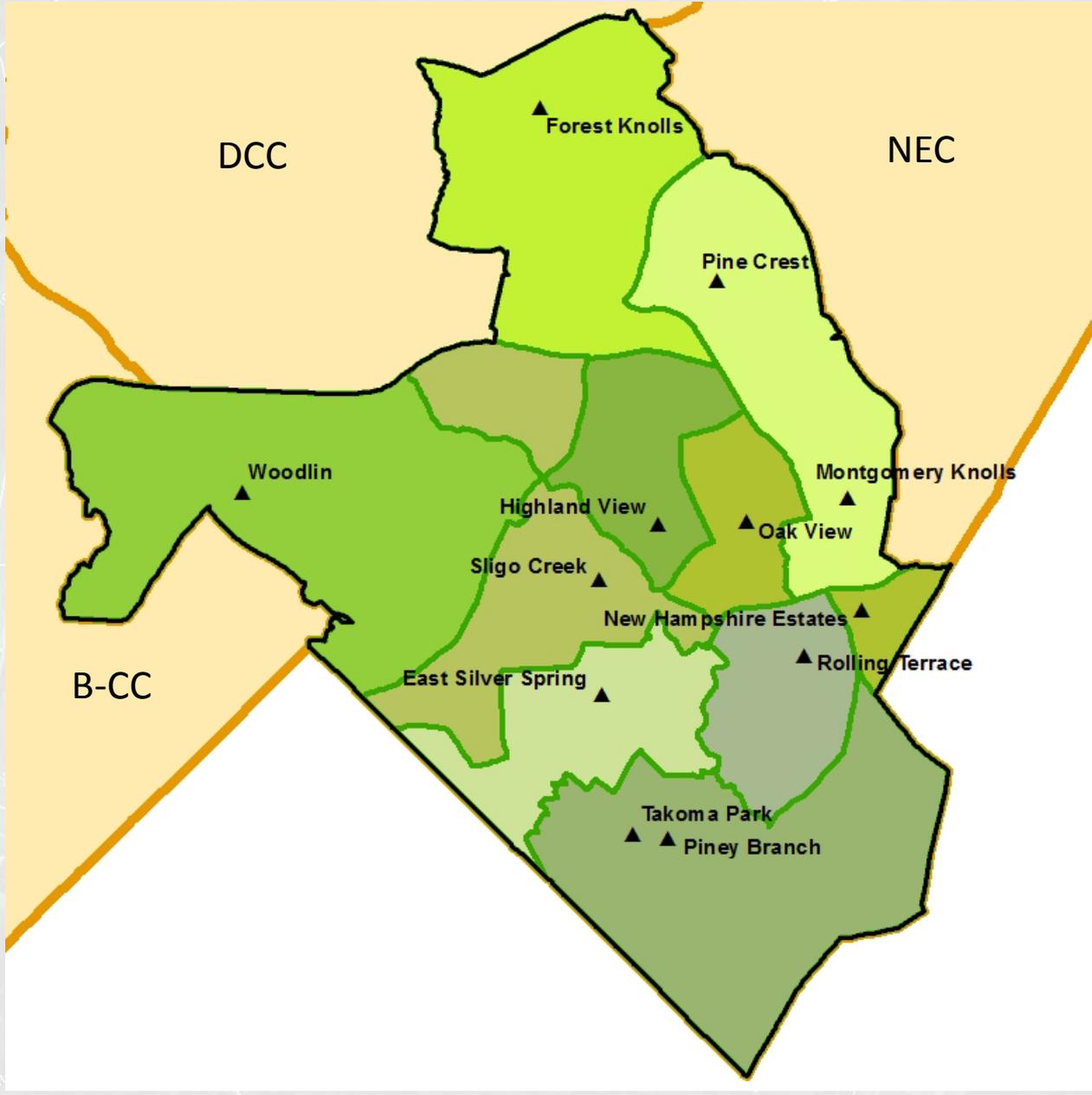


Why a Capacity Study?

- Learn the following:
 - Which schools we can add classrooms to?
 - How large the classroom additions can be?
 - How much the classroom additions would cost?
- Compare cost of construction of additions to the cost of constructing a new elementary school
- Paired schools will be looked at as paired and unpaired schools
- Board of Education adopted study

School	Grades Served
East Silver Spring ES	pre-K–5
Forest Knolls ES	pre-K–5
Highland View ES	K–5
Montgomery Knolls ES	pre-K–2
New Hampshire Estates ES	pre-K–2
Oak View ES	3–5
Pine Crest ES	3–5
Piney Branch ES	3–5
Rolling Terrace ES	pre-K–5
Sligo Creek ES	K–5
Takoma Park ES	pre-K–2
Woodlin ES	K–5

Which Schools are in the Study?



Study Area

- Possible classroom additions at 5 of the 12 schools in the study area

- Montgomery Knolls ES
- New Hampshire Estates ES
- Oak View ES
- Pine Crest ES
- Sligo Creek ES



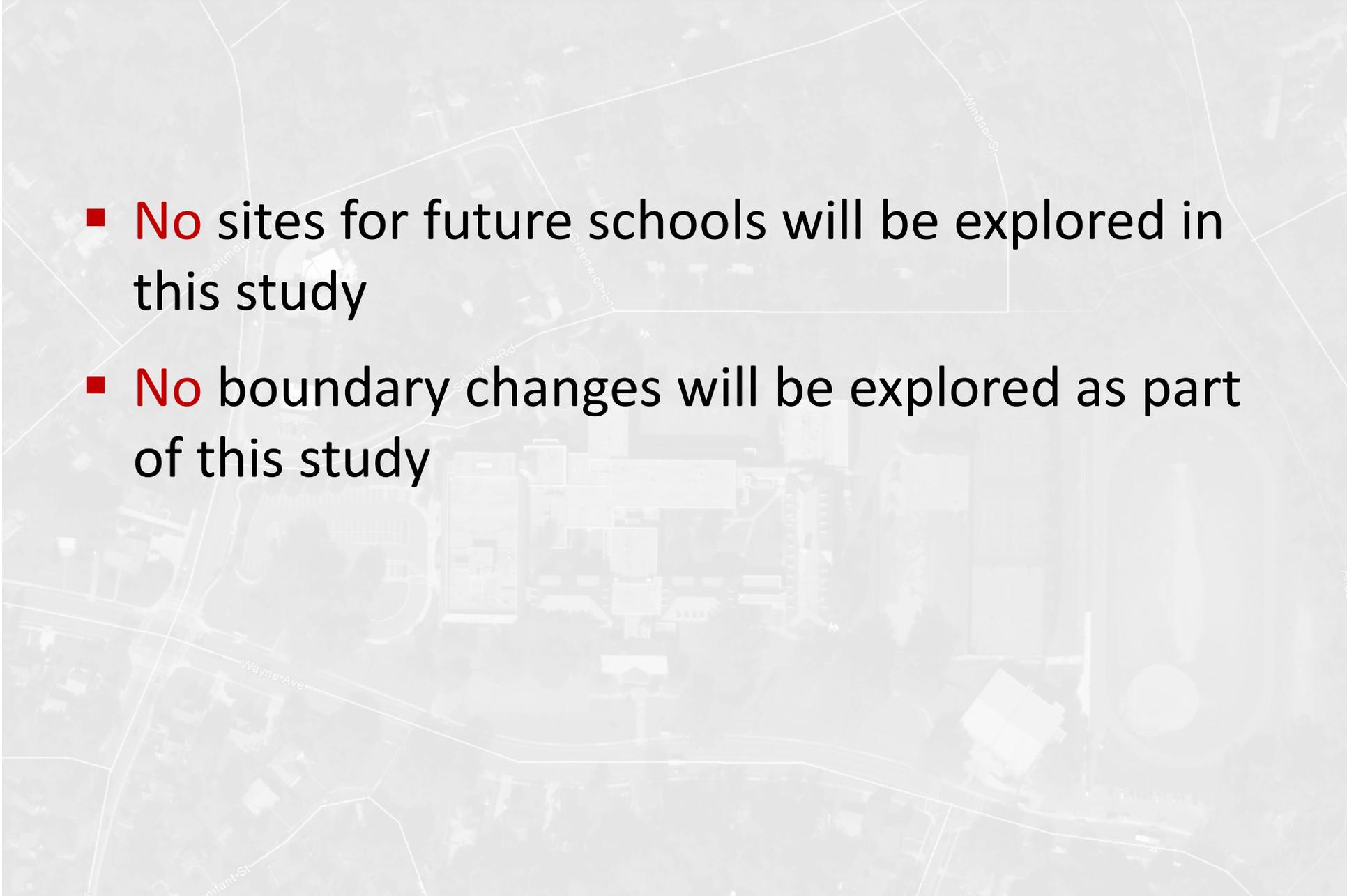
- Remaining 7 schools have been studied previously or can't be made larger

- East Silver Spring ES Master Planned Addition
- Forest Knolls ES Completed as part of DCC Capacity Study in 2013
- Highland View ES Completed in 2011
- Rolling Terrace ES Completed in 2009
- Woodlin ES Completed in 2013
- Takoma Park/Piney Branch ES Can't be made larger

- Possible classroom additions at schools that are over capacity

- Possible classroom additions at schools that are not over capacity but could relieve schools that are over capacity through future boundary changes

What Will the Study Explore?

- 
- **No** sites for future schools will be explored in this study
 - **No** boundary changes will be explored as part of this study

What Will the Study Not Explore?

DCC Study Lower Area: Enrollments and Space

pre-K/K-5 Schools

School	Enrollment 2014-15	Projected Enrollment					
		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
East Silver Spring							
Capacity	558	558	558	558	558	558	558
Enrollment	521	560	572	578	576	567	556
space available/deficit	37	-2	-14	-20	-18	-9	2
Forest Knolls							
Capacity	523	523	523	523	523	523	523
Enrollment	733	785	790	783	794	784	750
space available/deficit	-210	-262	-267	-260	-271	-261	-227
Highland View							
Capacity	278	278	278	278	278	278	278
Enrollment	422	420	425	426	423	410	408
space available/deficit	-144	-142	-147	-148	-145	-132	-130
Rolling Terrace							
Capacity	695	695	695	695	695	695	695
Enrollment	899	915	942	929	919	895	888
space available/deficit	-204	-220	-247	-234	-224	-200	-193
Sligo Creek							
Capacity	664	664	664	664	664	664	664
Enrollment	652	672	676	666	676	678	672
space available/deficit	12	-8	-12	-2	-12	-14	-8
Woodlin							
Capacity	462	462	462	462	462	462	462
Enrollment	626	629	634	618	637	633	635
space available/deficit	-164	-167	-172	-156	-175	-171	-173

DCC Study Lower Area: Enrollments and Space

Paired Schools

School	Enrollment 2014-15	Projected Enrollment					
		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
New Hampshire Estates							
Capacity	444	444	444	444	444	444	444
Enrollment	522	535	533	517	504	503	502
space available/deficit	-78	-91	-89	-73	-60	-59	-58
Oak View							
Capacity	358	358	358	358	358	358	358
Enrollment	382	422	443	467	465	462	446
space available/deficit	-24	-64	-85	-109	-107	-104	-88
Montgomery Knolls							
Capacity	501	501	501	501	501	501	501
Enrollment	513	514	506	489	480	479	479
space available/deficit	-12	-13	-5	12	21	22	22
Pine Crest							
Capacity	381	381	381	381	381	381	381
Enrollment	474	465	465	463	468	459	441
space available/deficit	-93	-84	-84	-82	-87	-78	-60
Takoma Park							
Capacity	584	584	584	584	584	584	584
Enrollment	657	665	628	611	599	603	602
space available/deficit	-73	-81	-44	-27	-15	-19	-18
Piney Branch							
Capacity	611	611	611	611	611	611	611
Enrollment	527	559	608	626	618	607	591
space available/deficit	84	52	3	-15	-7	4	20
Total Capacity	6,059	6,059	6,059	6,059	6,059	6,059	6,059
Total Enrollment	6,928	7,141	7,222	7,173	7,159	7,080	6,970
space available/deficit	-869	-1,082	-1,163	-1,114	-1,100	-1,021	-911

Enrollment Projections

- The superintendent will review the capacity studies and cost estimates
- The superintendent will make a recommendation on classroom additions, a new elementary school, or a combination of both, in late October 2015 as part of the FY 2017–2022 CIP
- The superintendent's recommendation will include a request for funds to design and construct what is recommended



What Will Happen After the Study?

- If the superintendent recommends a new elementary school, then a site selection advisory committee would be formed next school year to evaluate site options
- Whether the solution to space shortages are classroom additions or a new school, it is likely that some school boundaries will change
- Boundary changes would be timed to occur when the additional capacity becomes available
- In the meantime, schools will be provided with relocatable classrooms



What Will Happen After the Study?

- **Provide Capacity Increasing Options**
 - Consideration must be given to:
 - The existing facility layout
 - The site potentials and constraints
- **Goals**
 - Address space shortages
 - Compare the cost of multiple additions to the cost of a new school

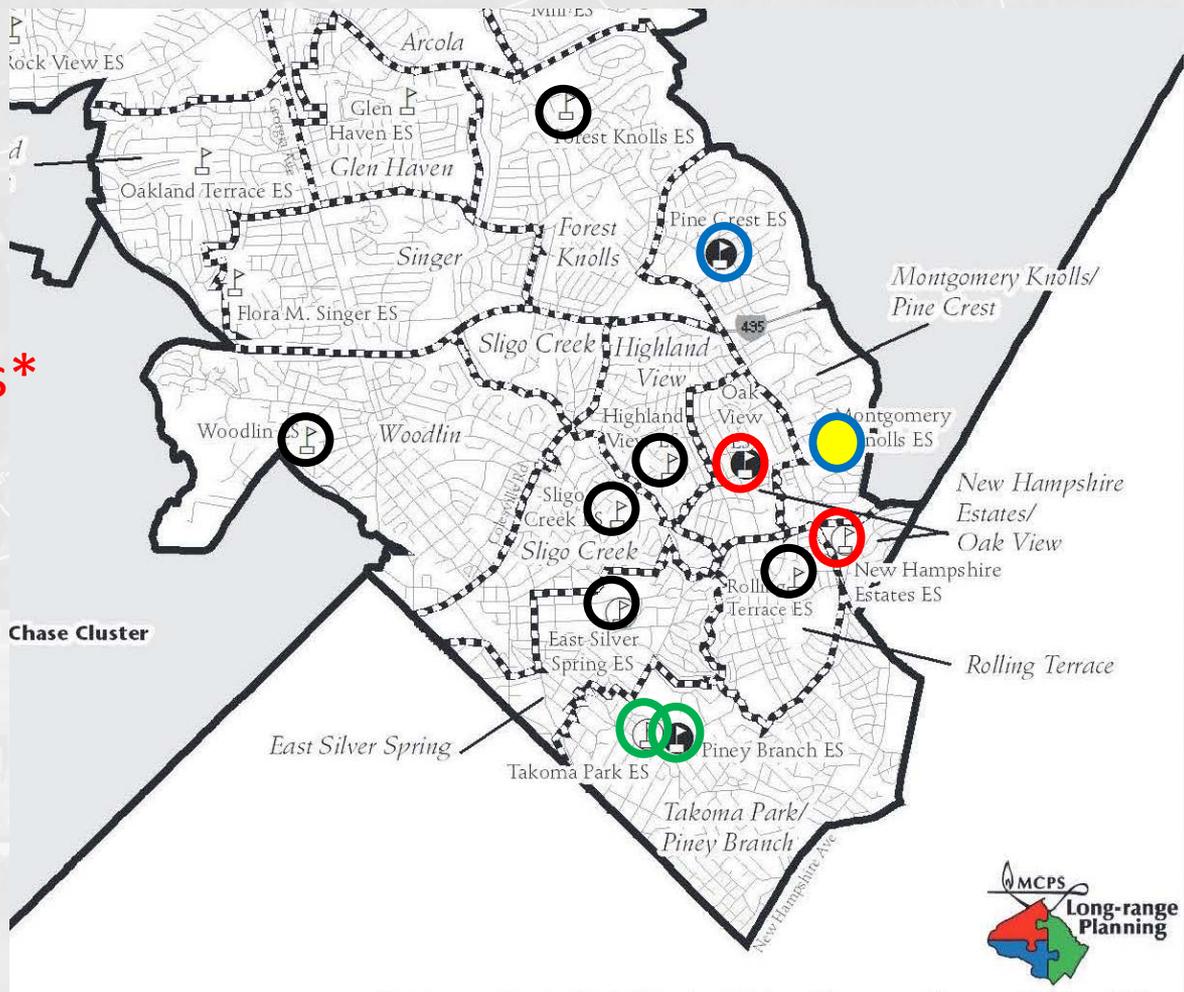


- Capacity Study - A Design Investigation of potential classroom additions at multiple schools to increase the program capacity and core capacity of the schools being studied
 - Core Capacity –The capacity of the school based on the size of the core spaces (the media center, the cafeteria, the gym)
 - Program Capacity -The capacity of the school based on the number of classrooms and the programs they host.



What is a Capacity Study?

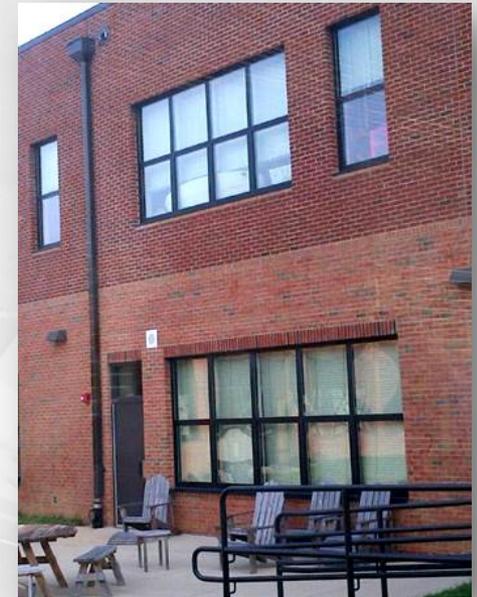
- East Silver Spring
- Forest Knolls
- Highland View
- **Montgomery Knolls***
- **New Hampshire Estates***
- **Oak View***
- Pine Crest*
- **Piney Branch***
- Rolling Terrace
- Sligo Creek
- **Takoma Park***
- Woodlin



* Schools in color are paired schools

The Capacity Study Area

1. MCPS Develops the Space Summary
2. Architect meets with MCPS and School Staff
3. Architect develops Addition Options
4. Options presented at Community Meetings
5. Feedback provided by the Community
6. Revisions made to the Options
7. Final Presentation made to the Community
8. Final Report Prepared including Cost Estimates and Capacity Data



The Capacity Study Process

- ✓ Identify Existing Building / Site Conditions
- ✓ Present Concept Design Options
 - Based on Space Summary
- ✓ Discuss Pros / Cons of each Option
 - Including Additional Issues not Identified in the Options Presented



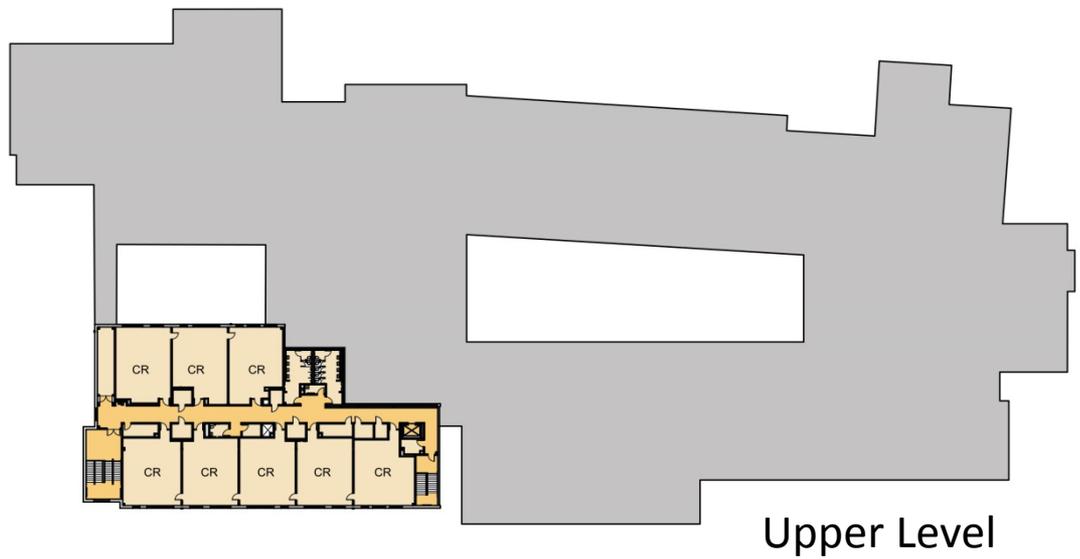


- Current Core Capacity – 640
- Current Program Capacity – 501
- Current Enrollment (2014-15) - 513
- Proposed Core Capacity – 640
- Projected Program Capacity w/ Addition – 648
- Projected Enrollment 2020-21 – 479
- Projected Excess Capacity after Addition – 169

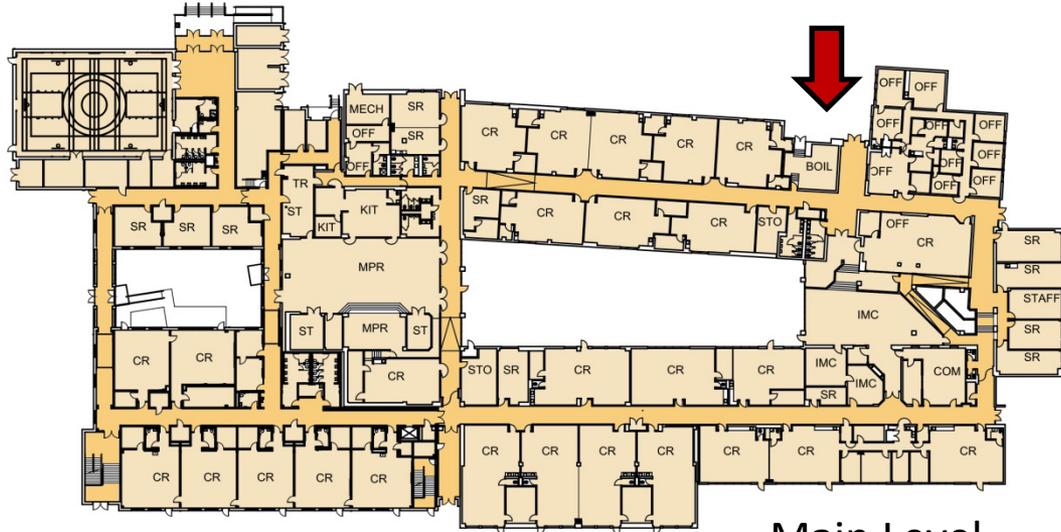
- Currently has Capacity Deficit (-12)
- Currently no Relocatables
- Two Story School
- Small Site (7.5 Acres)
- Paired with Pine Crest ES
- Grades PreK-2
- Original School Built in 1957
- 4 Additions in 1969, 1972, 1989 and 2011
- Design Issues / Constraints
 - Multiple Interior Levels, Ramps
 - On Site Forest



Understanding the Existing School



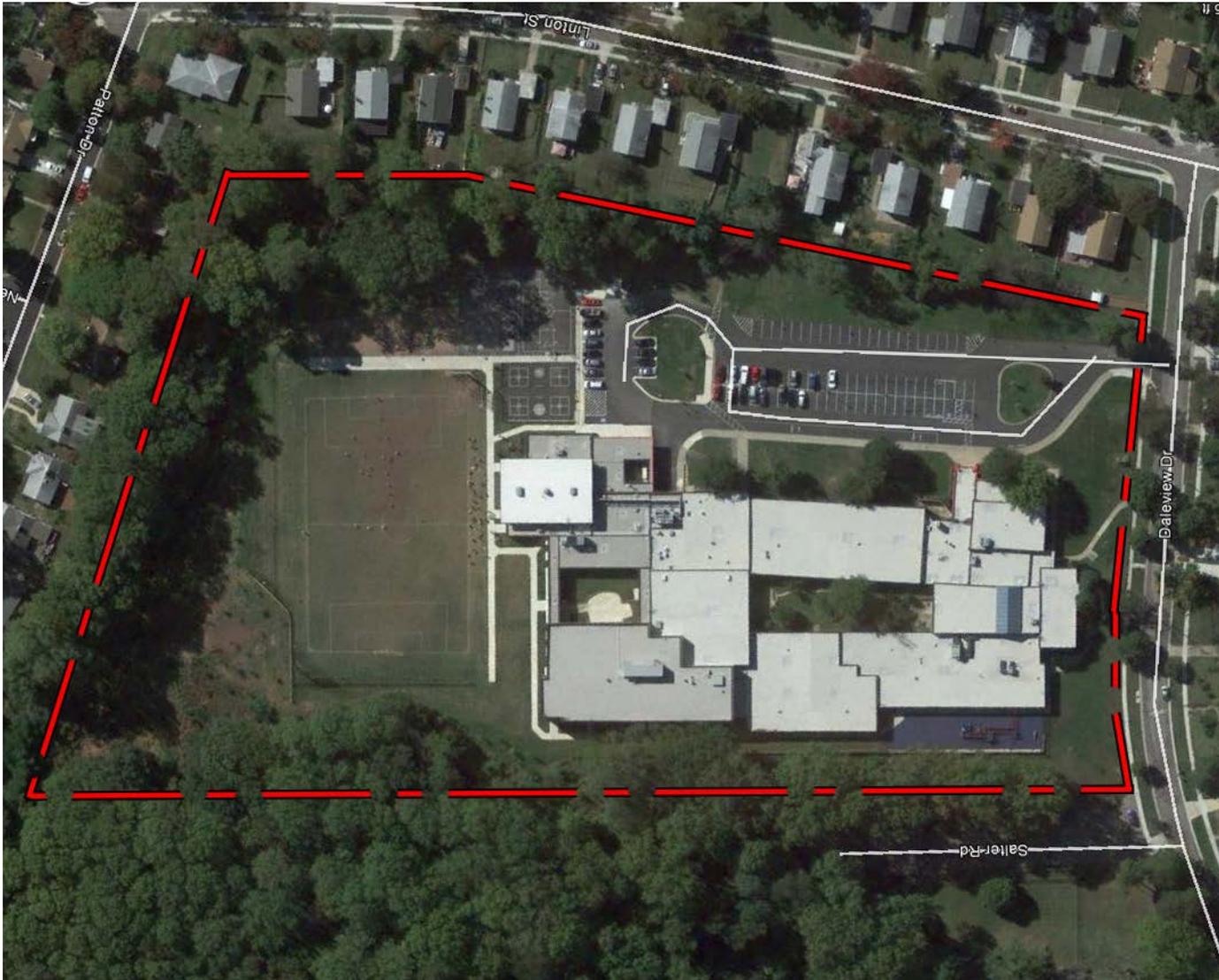
Upper Level



Main Level



The Existing School – Floor Plans



- Relatively Small Site
- Level Field Area
- Construction Access
- Staging Location

The Existing School – Site



- The Space Summaries from MCPS identify spaces required to achieve
 - 640 Core Capacity and a 648 Program Capacity

Montgomery Knolls Elementary School (Grades pre-K–2)
Square Foot Summary

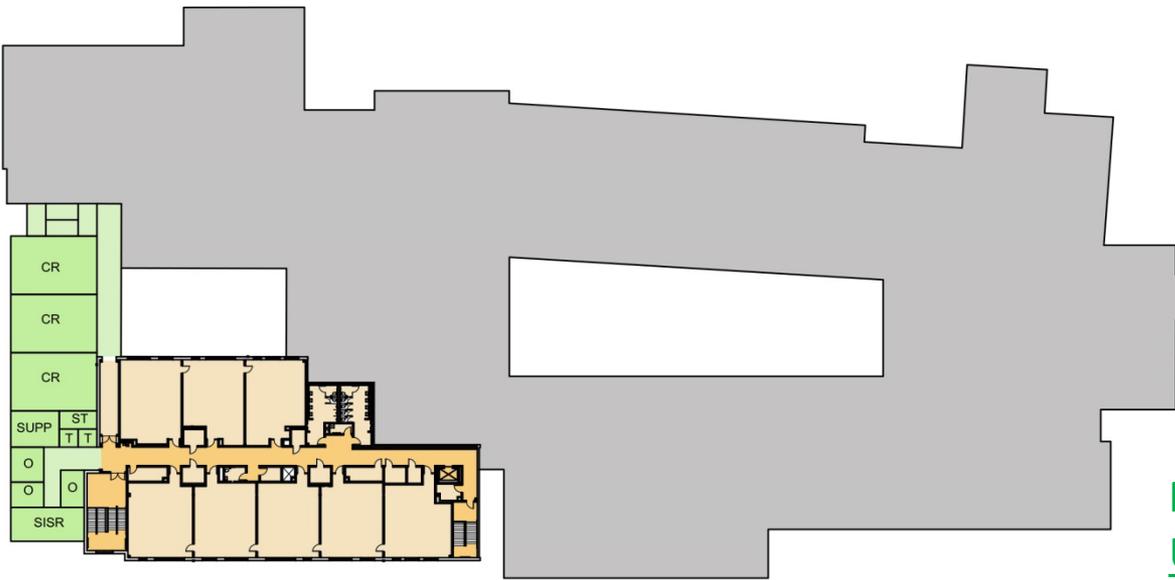
When this project is complete, the following spaces are to be provided:
 The capacity will be 648 with a core of 640.

Updated 2-4-2015

Facility	#	Description	Net Sq. Ft.	Total Net Sq. Ft.
Classrooms				
Standard	6		900	5400
Support Rooms				
Small Instructional Support Room	3		450	1350
Testing Room	1		150	150
Support Staff Offices	2		150	300
Counseling Area				
Counselor's Office	1		250	250
Itinerant Staff Office	1		150	150
Multipurpose Room				
Multipurpose Room (increase existing)	1		800	800
Building Service Facilities				
General Storage	1		250	250
PTA Storage	1		150	150
Total	6			8800

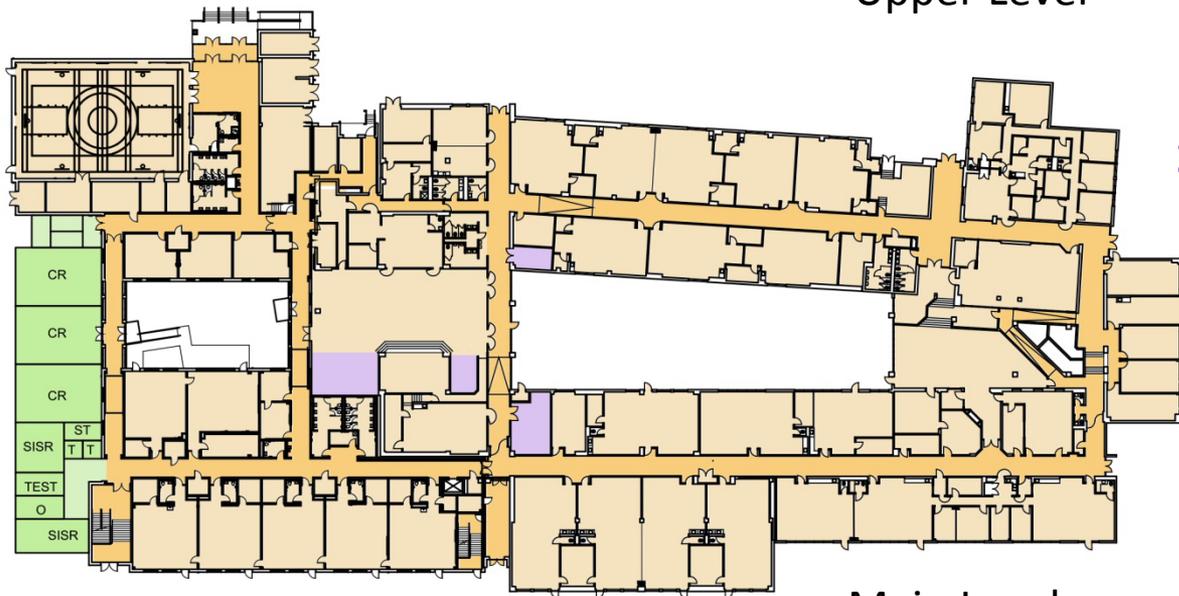
- Space Summary for Grades PreK-2
- Net vs. Gross SF
 - 8,800 Net SF needed
 - @12,300 Gross SF needed
- No addition required for PreK-5

- Two-Story Addition
- Add onto existing single loaded corridor



Upper Level

Main Level Addition – 5,100 SF
Upper Level Addition – 5,800 SF
Total Addition – 10,900 SF



Main Level

Main Level Renovation – 1,200 SF
Upper Level Renovation – 0 SF
Total Renovation SF – 1,200 SF

Design Option – Grades PreK-2 - Floor Plans



Design Option – Grades PreK-2 - Site Plan





Questions?