

New Hampshire Estates Elementary School

Montgomery County Public Schools

Capacity Study Meetings #1 and #2 April 2, 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

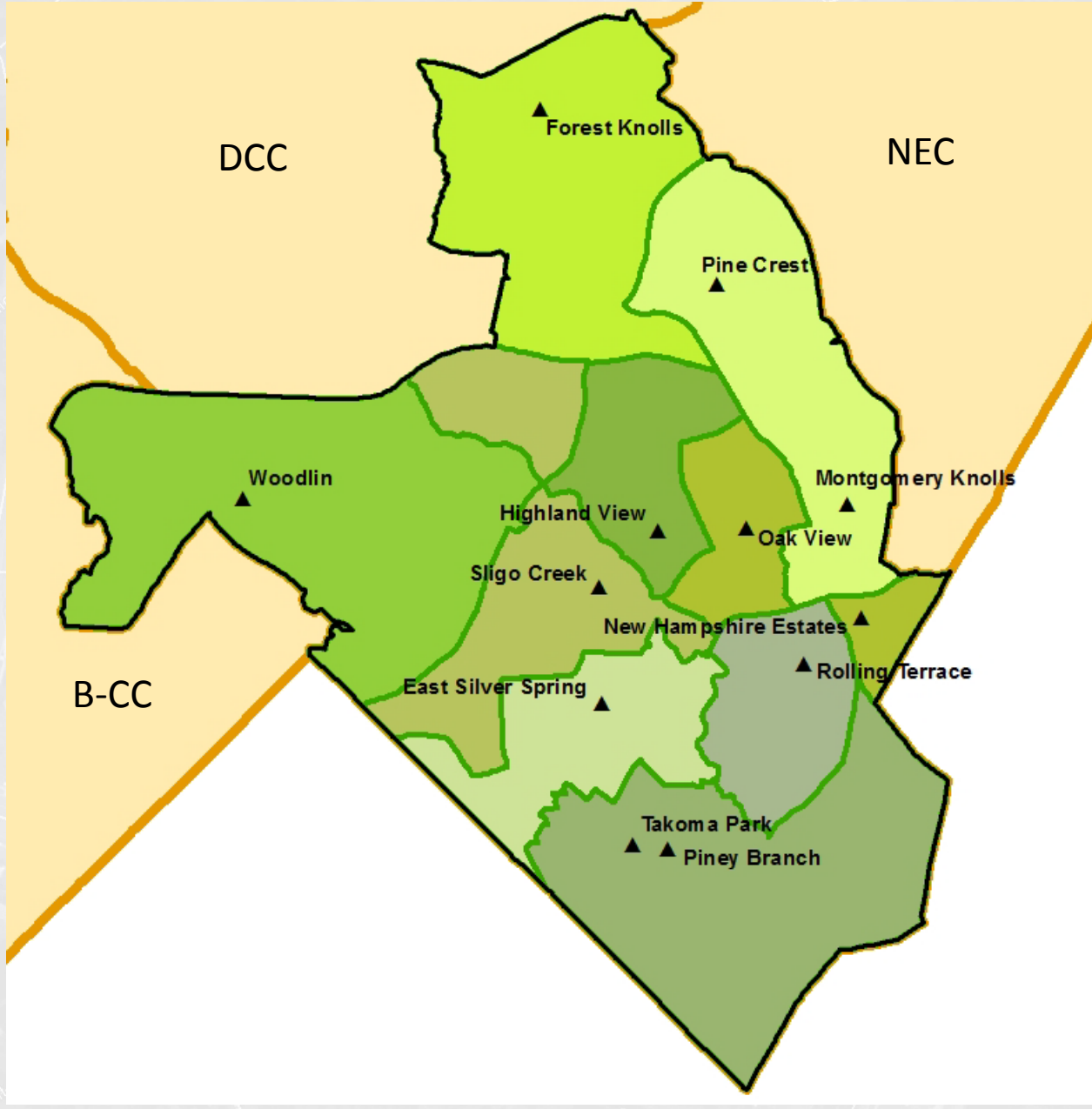


Why a Capacity Study?

- 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



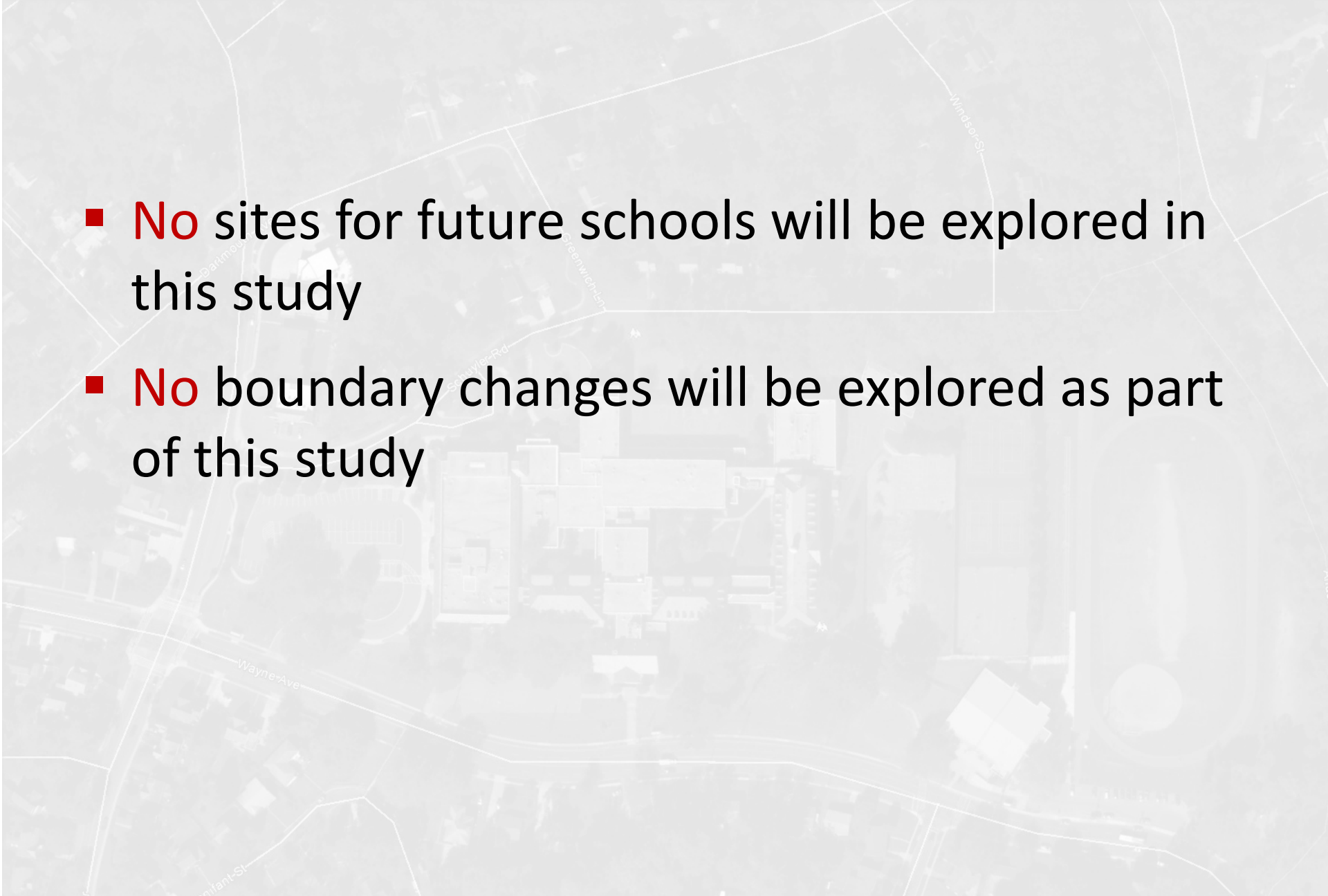
- Remaining 7 schools have been studied previously or can't be made larger

- 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

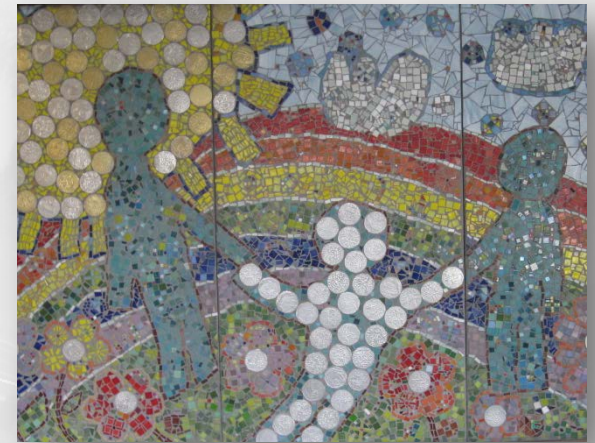
- Consideration must be given to:
 - The existing facility layout
 - The site potentials and constraints

- Goals

- Address space shortages
- Compare the cost of multiple additions to the cost of a new school

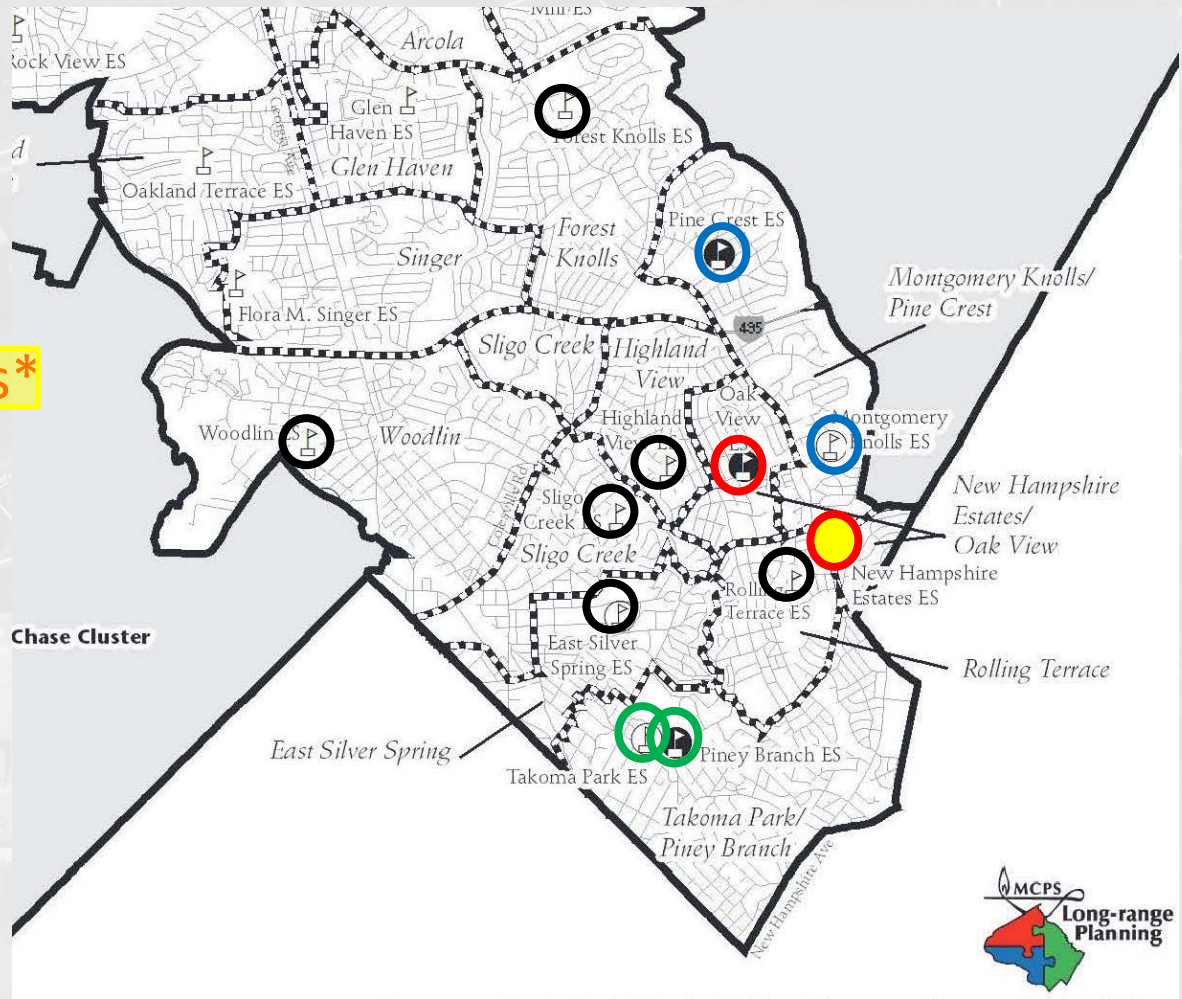


- Capacity Study - A Design Investigation of potential classroom additions at multiple schools to increase the program capacity and core capacity of the schools being studied
 - Core Capacity –The capacity of the school based on the size of the core spaces (the media center, the cafeteria, the gym)
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





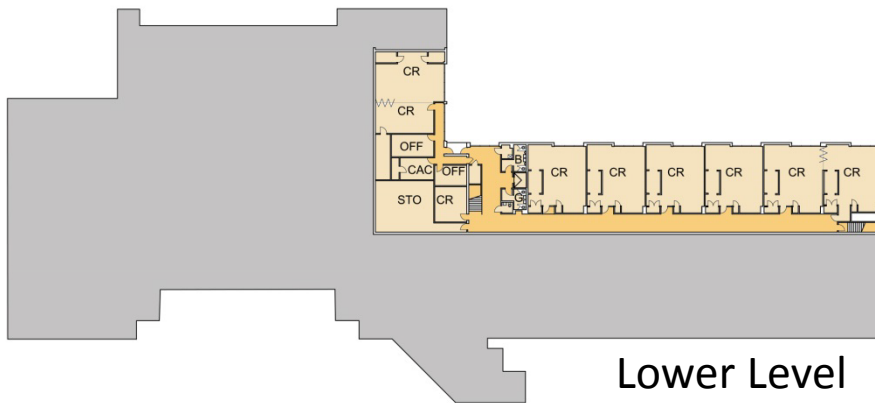
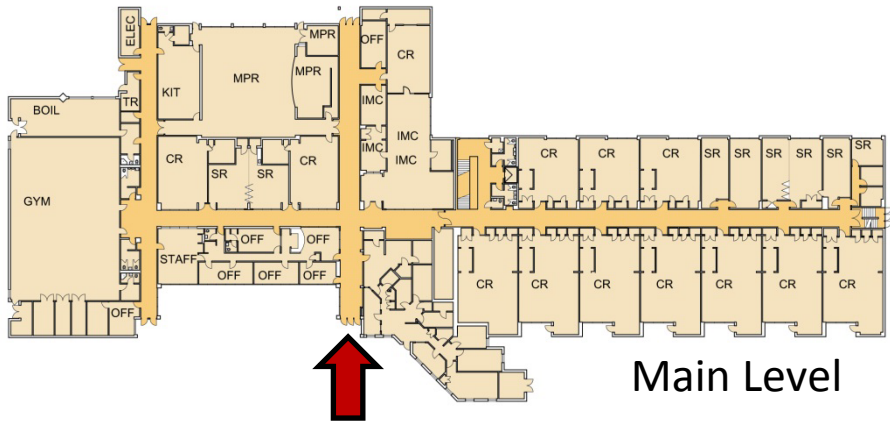
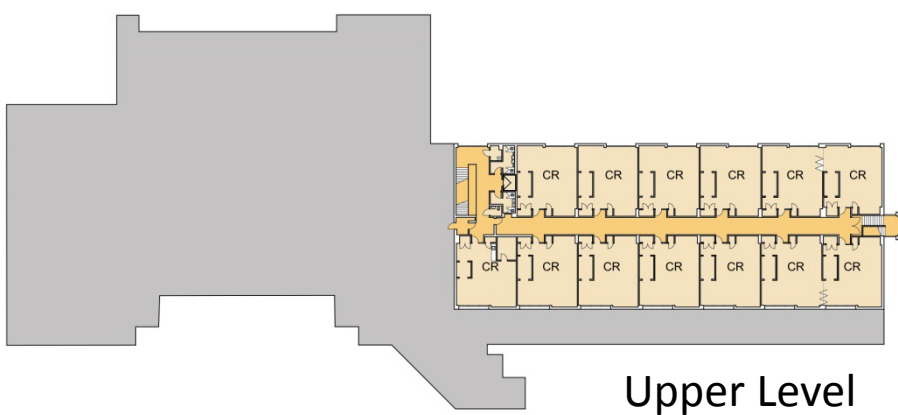
- Current Core Capacity – 640
- Current Program Capacity – 444
- Current Enrollment (2014-15) - 522
- Proposed Core Capacity – 740
- Projected Program Capacity w/ Addition – 732/740*
- Projected Enrollment 2020-21 – 502
- Projected Excess Capacity after Addition – (230/238)*

* Capacities Provided for PreK-2 and PreK-5 Options respectively

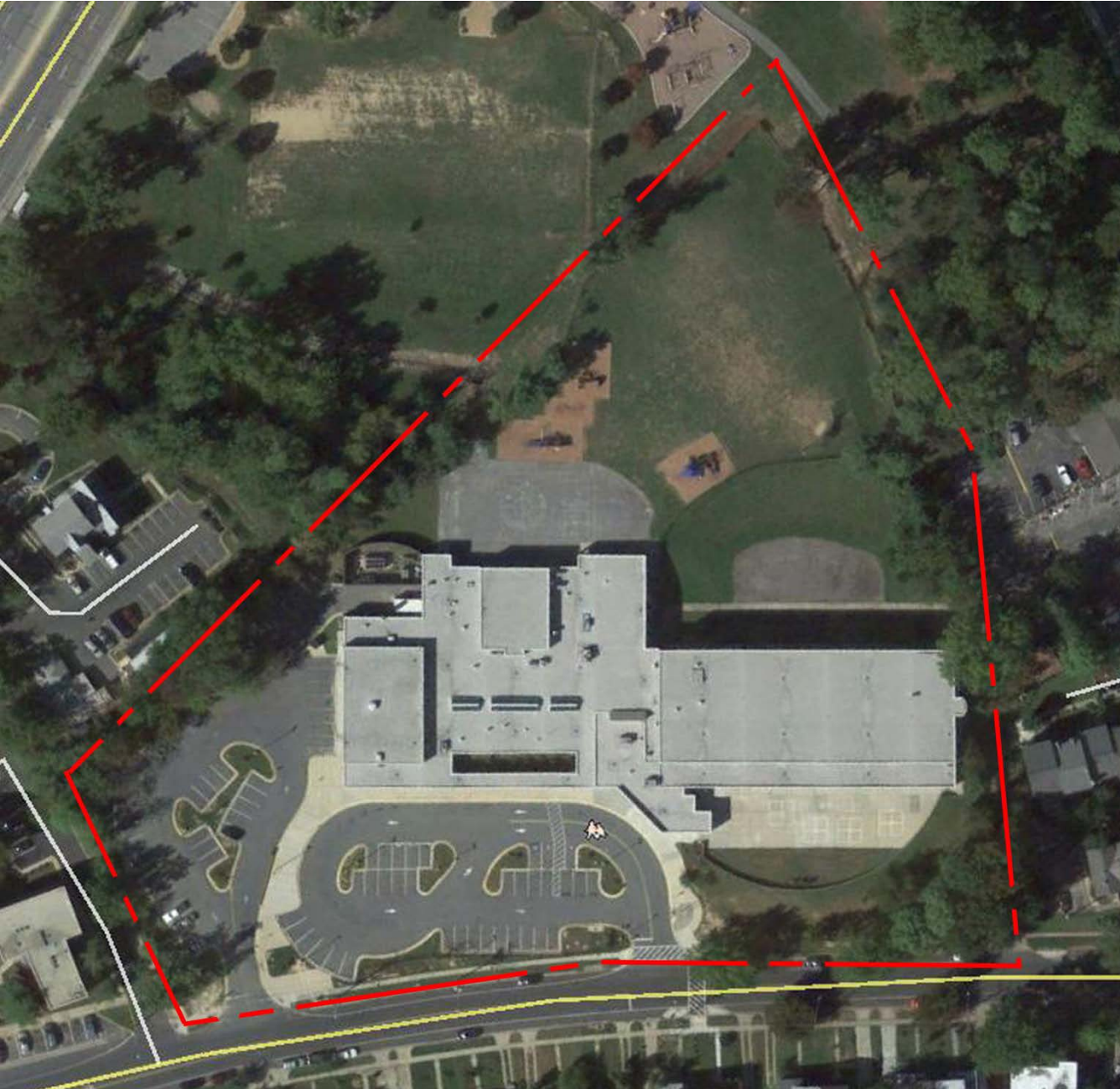
- Currently has Capacity Deficit (-78)
- Currently no Relocatables
- Three Story School
- Small Site (3.3 Acres)
- Paired with Oak View ES
- Grades PreK-2
- Original School Built in 1973
- Additions in 1988 and 2009
- Design Issues / Constraints
 - Sloping site provides daylighting to Lower Level
 - Access Options
 - Adjacent Forest (Piney Branch Rd)



Understanding the Existing School



The Existing School – Floor Plans



- Topography
- Adjacent Forest on Piney Branch Rd.
- Fire Truck Access

The Existing School – Site

- The Space Summaries from MCPS identify spaces required to achieve
 - 740 Core Capacity and a 732/740* Program Capacity

** Capacities Provided for PreK-2 and PreK-5 Options respectively*

**New Hampshire Estates Elementary School (Grades pre-K-2)
Square Foot Summary**

Updated 2-18-2015

The capacity will be 732 with a core of 740.

Facility	#	Description	Net Sq. Ft.	Total Net Sq. Ft.
Classrooms				
Prekindergarten	6		1300	7800
Kindergarten	2		1300	2600
Standard	3			
Dual purpose Room	1		1000	1000
Support Rooms				
Large Instructional Support Room	1		600	600
Small Instructional Support Room	2		450	900
Speech/Language Room	1		250	250
Therapy/Support Room	1		250	250
Title 1 Parent Resource Room (if required)	1		500	500
Staff Development Area				
Staff Development Office	1		100	100
Reading Specialist Office	1		100	100
Training/Conference Room	1		450	450
Counseling Area				
Counselor's Office	1		250	250
Itinerant Staff Office	1		150	150
Multipurpose Room				
Multipurpose Room (increase existing)	1		1100	1100
Chair Storage	1		200	200
Building Service Facilities				
General Storage	1		250	250
PTA Storage	1		150	150
Total	12			16650

**New Hampshire Estates Elementary School (Grades pre-K-5)
Square Foot Summary**

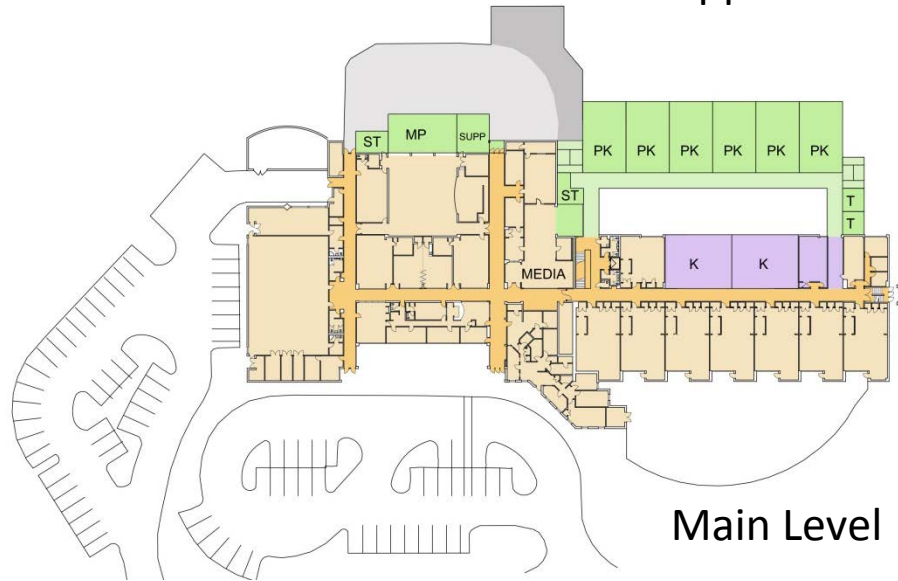
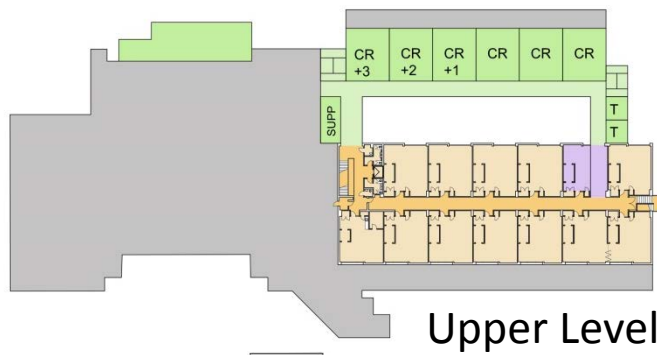
Updated 2-18-2015

When this project is complete, the following spaces are to be provided:
The capacity will be 740 with a core of 740.

Facility	#	Description	Net Sq. Ft.	Total Net Sq. Ft.
Classrooms				
Standard	8		900	7200
Instrumental Music Room	1		450	450
Dual purpose Room	1		1000	1000
Support Rooms				
Large Instructional Support Room	1		600	600
Small Instructional Support Room	2		450	900
Speech/Language Room	1		250	250
Therapy/Support Room	1		250	250
Title 1 Parent Resource Room	1		500	500
Staff Development Area				
Staff Development Office	1		100	100
Reading Specialist Office	1		100	100
Training/Conference Room	1		450	450
Counseling Area				
Counselor's Office	1		250	250
Itinerant Staff Office	1		150	150
Multipurpose Room				
Multipurpose Room (increase existing)	1		1100	1100
Chair Storage	1		200	200
Building Service Facilities				
General Storage	1		250	250
PTA Storage	1		150	150
Total	9			13900

- Grades PreK-2
 - Net vs. Gross SF
 - 16,650 Net SF needed
 - @33,000 Gross SF needed
- Grades PreK-5
 - Net vs. Gross SF
 - 13,900 Net SF needed
 - @28,000 Gross SF needed

The Space Summaries



- Three-Story Addition
- Single Loaded Corridor (Not as Efficient as Double Loaded Corridor)
- Create Courtyard
- Loop Circulation on all Three Levels
- 3 new CRs on Lower Level with borrowed light
- Media Center addition for borrowed light

Lower Level Addition – 10,200 SF
 Main Level Addition – 13,750 SF
 Upper Level Addition – 9,750 SF
Total Addition – 33,700 SF

Lower Level Renovation – 3,500 SF
 Main Level Renovation – 850 SF
 Upper Level Renovation – 850 SF
Total Renovation SF – 4,350 SF

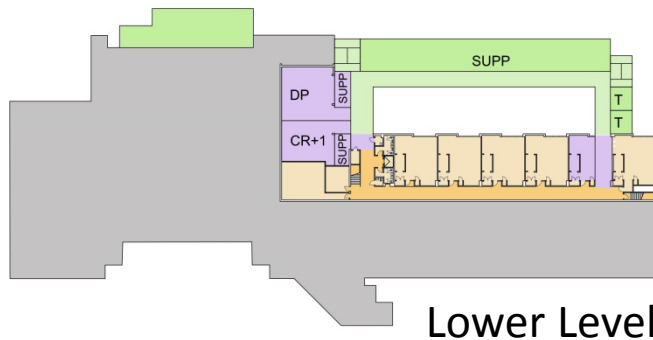
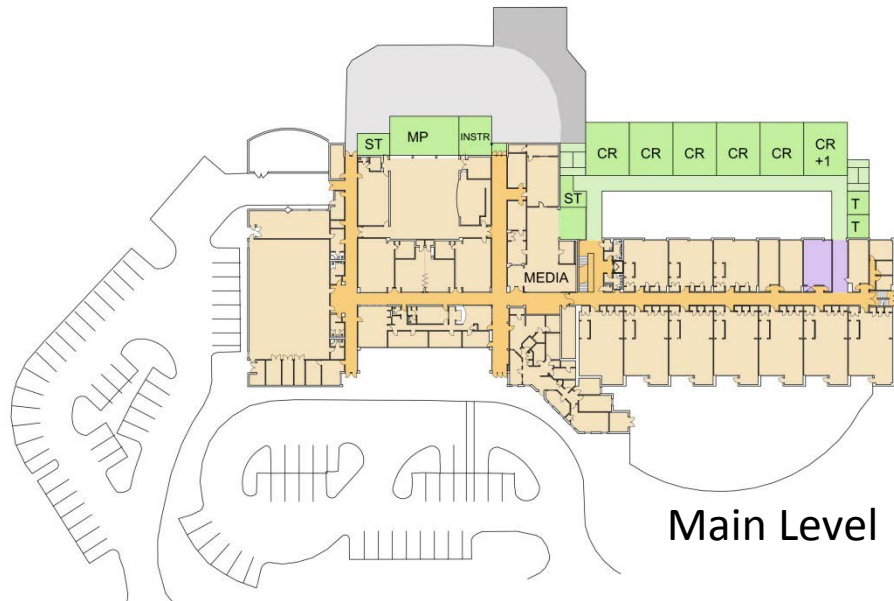
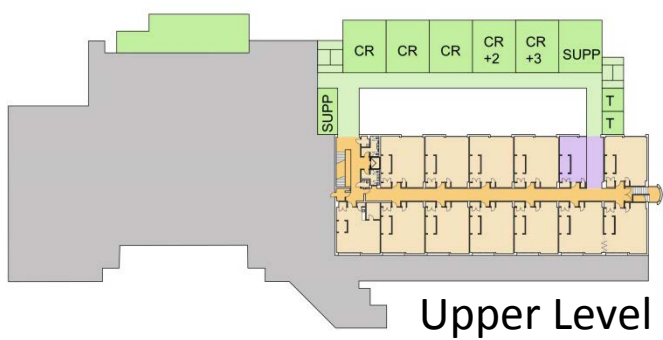
Design Option – Grades PreK-2 - Floor Plans



- Add to Existing Hard Play
- Use North wall of Lower Level Addition as a Retaining wall
- Construction Access at West Property Line or from either University Blvd or Piney Branch Blvd – Latter Requires Coordination with the County
- Mechanical Yard Revisions Required to Accommodate Fire Truck Access to Addition

Design Option – Grades PreK-2 - Site Plan



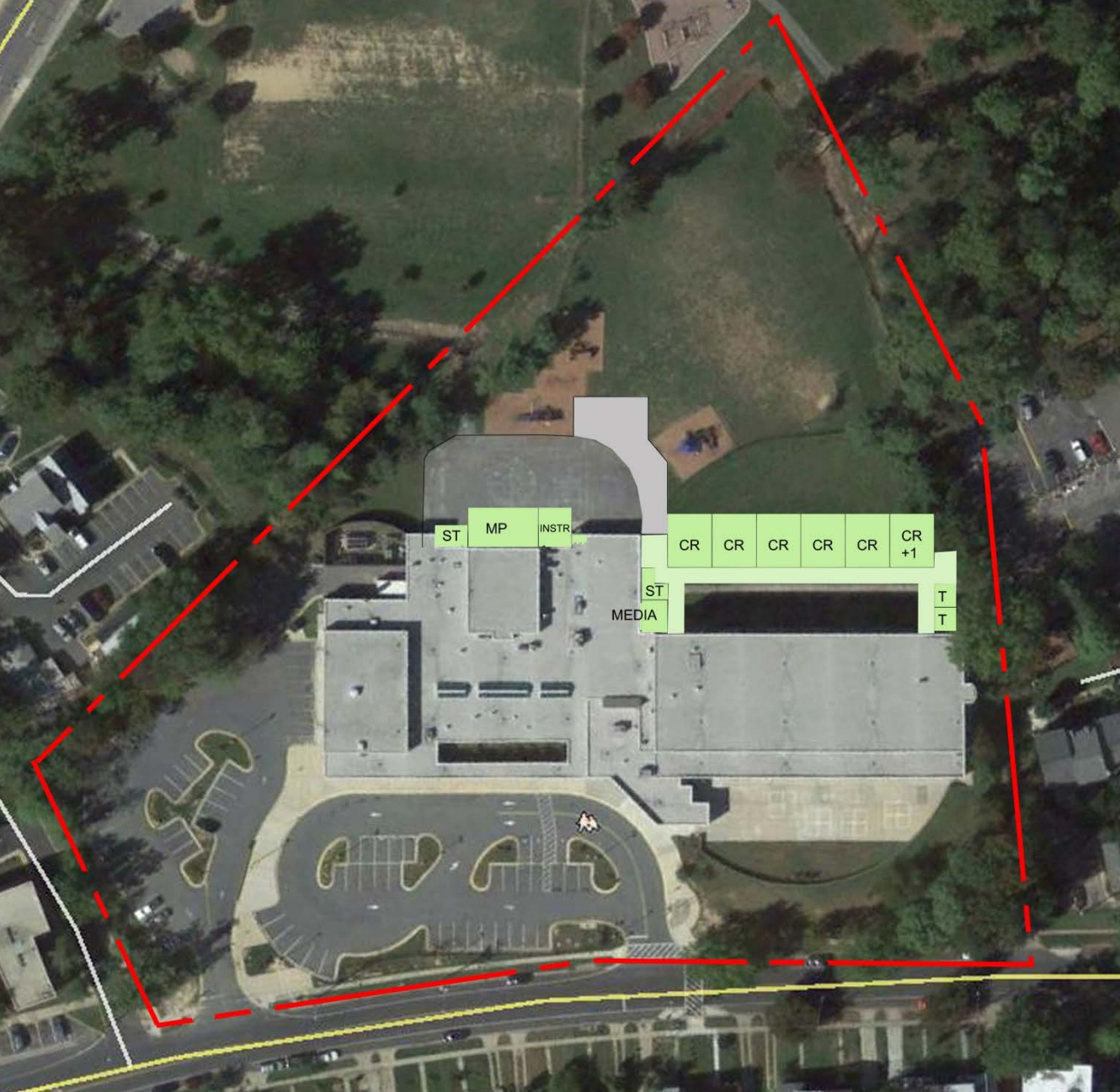


- Three-Story Addition
- Single Loaded Corridor (Not as Efficient as Double Loaded Corridor)
- Create Courtyard
- Loop Circulation on all Three Levels
- Media Center addition for borrowed light

Lower Level Addition – 6,800 SF
 Main Level Addition – 11,750 SF
 Upper Level Addition – 9,750 SF
Total Addition – 28,300 SF

Lower Level Renovation – 3,500 SF
 Main Level Renovation – 850 SF
 Upper Level Renovation – 850 SF
Total Renovation SF – 4,350 SF

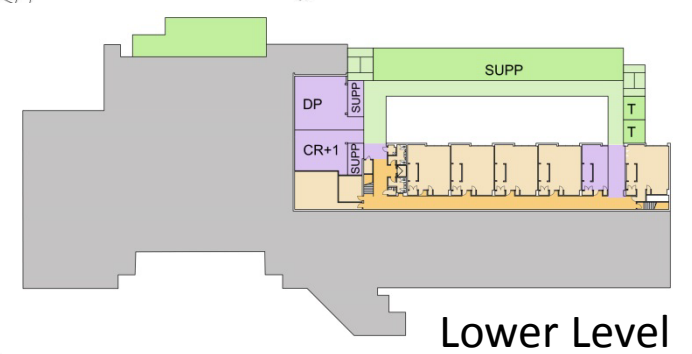
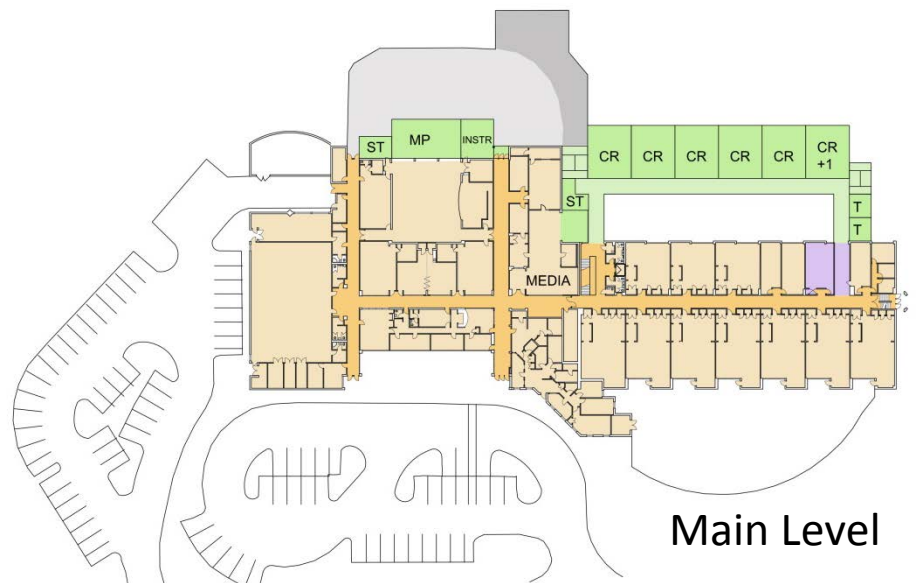
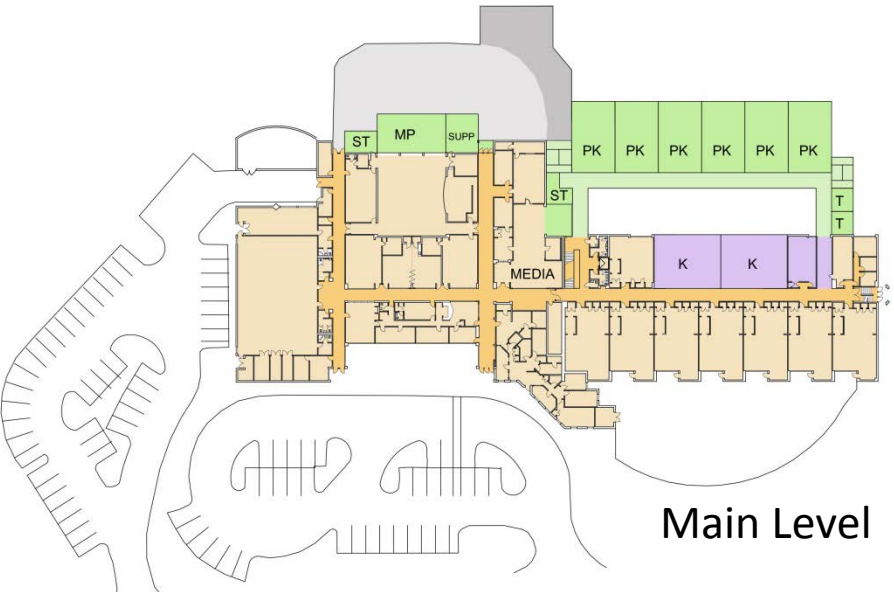
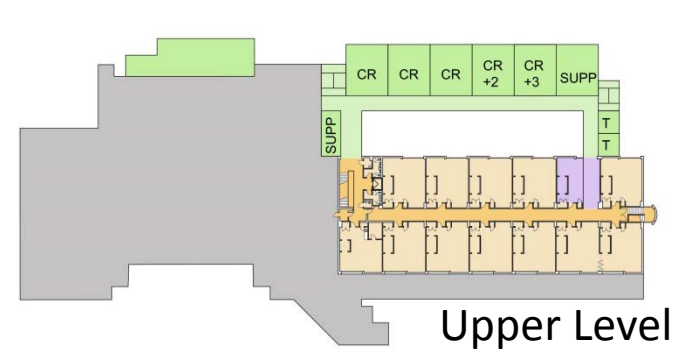
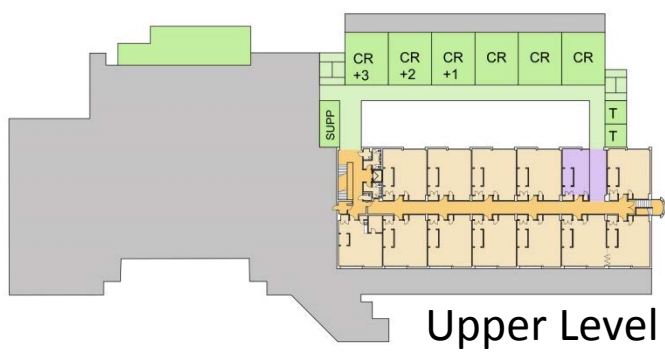
Design Option – Grades PreK-5 - Floor Plans



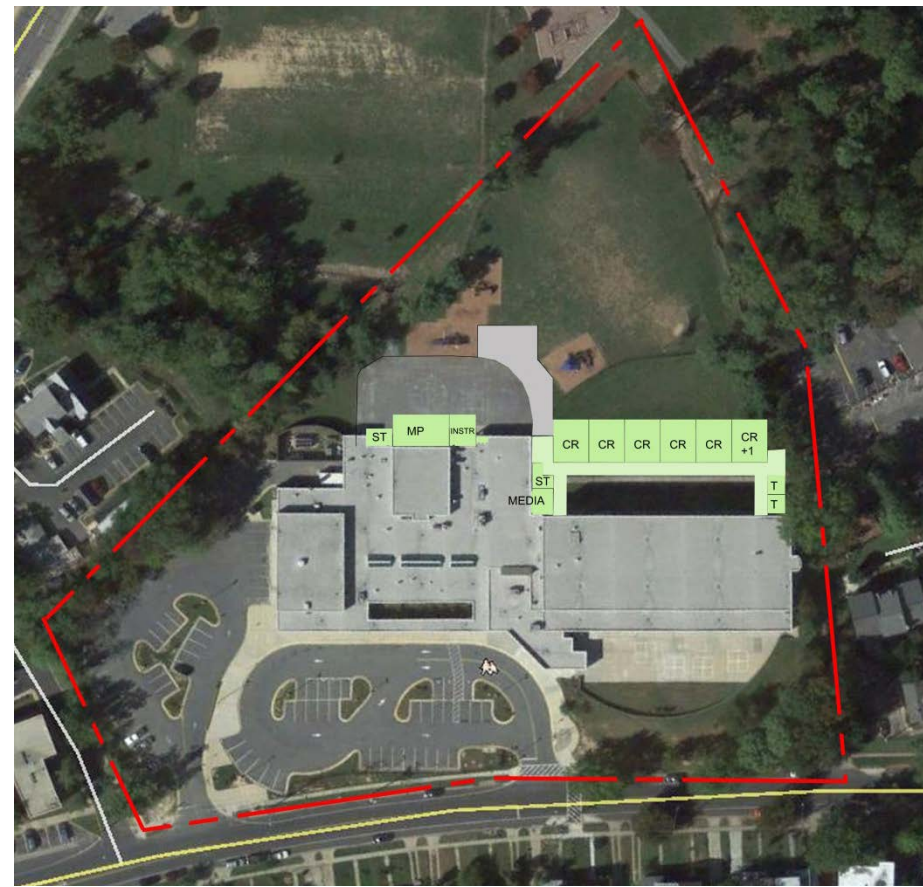
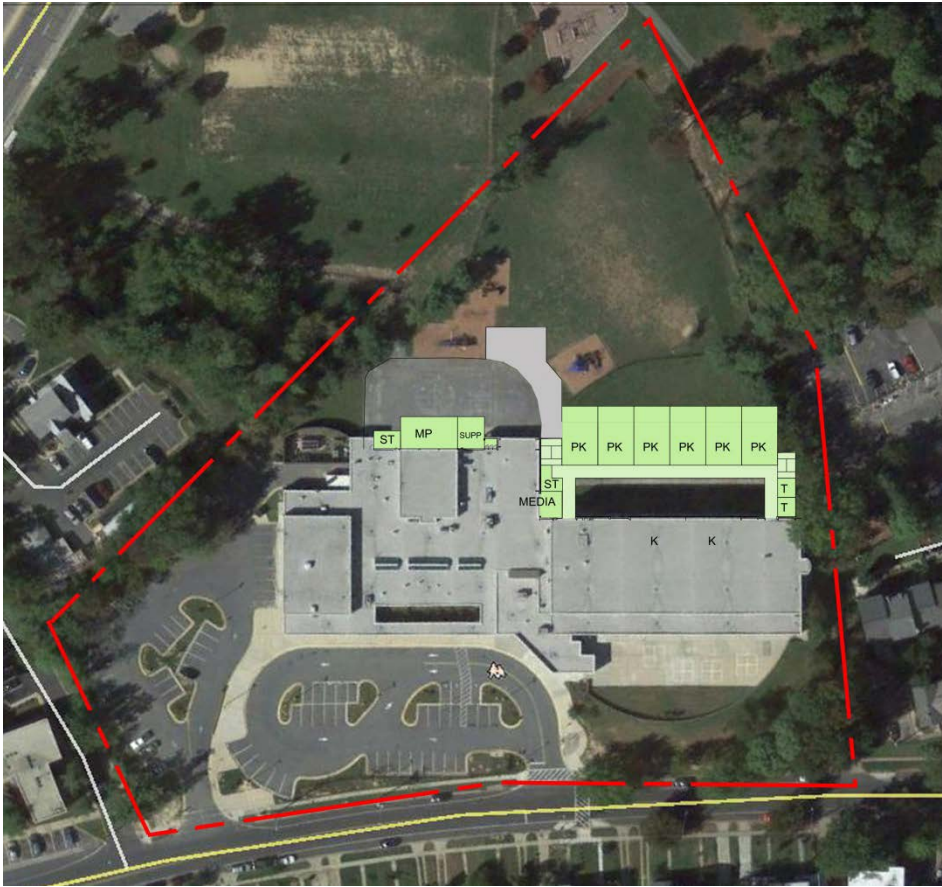
- Add to Existing Hard Play
- Use North wall of Lower Level Addition as a Retaining wall
- Construction Access at West Property Line or from either University Blvd or Piney Branch Blvd – Latter Requires Coordination with the County
- Mechanical Yard Revisions Required to Accommodate Fire Truck Access to Addition

Design Option – Grades PreK-5 - Site Plan





Design Options – Grades PreK-2 & PreK-5 – Building Comparison



Design Options – Grades PreK-2 & PreK-5 – Site Comparison



Questions?