- 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

Purpose of Elementary Capacity Study
<table>
<thead>
<tr>
<th>School</th>
<th>Grades Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Silver Spring ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Forest Knolls ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Highland View ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Montgomery Knolls ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>New Hampshire Estates ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Oak View ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Pine Crest ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Piney Branch ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Rolling Terrace ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Sligo Creek ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Takoma Park ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Woodlin ES</td>
<td>K–5</td>
</tr>
</tbody>
</table>
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?
What Will the Study **Not** Explore?

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

**DCC Study Lower Area: Enrollments and Space**

#### Pre-K/K-5 Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Enrollment 2014-15</th>
<th>Projected Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>2015-16</td>
<td>2016-17</td>
</tr>
<tr>
<td>East Silver Spring</td>
<td>558</td>
<td>558</td>
</tr>
<tr>
<td></td>
<td>521</td>
<td>560</td>
</tr>
<tr>
<td>space available/deficit</td>
<td>-37</td>
<td>-2</td>
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<tr>
<td>Forest Knolls</td>
<td>523</td>
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<td>733</td>
<td>785</td>
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<tr>
<td>space available/deficit</td>
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<td>-262</td>
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<tr>
<td>Highland View</td>
<td>278</td>
<td>278</td>
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<tr>
<td></td>
<td>422</td>
<td>420</td>
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<tr>
<td>space available/deficit</td>
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<td>-142</td>
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<tr>
<td>Rolling Terrace</td>
<td>695</td>
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<td>899</td>
<td>915</td>
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<td>Sligo Creek</td>
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<td></td>
<td>652</td>
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</tr>
<tr>
<td>space available/deficit</td>
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<td>-8</td>
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<tr>
<td>Woodlin</td>
<td>462</td>
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<td></td>
<td>626</td>
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<tr>
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<td>-167</td>
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</table>

#### Paired Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Enrollment 2014-15</th>
<th>Projected Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>2015-16</td>
<td>2016-17</td>
</tr>
<tr>
<td>New Hampshire Estates</td>
<td>444</td>
<td>444</td>
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<tr>
<td></td>
<td>522</td>
<td>535</td>
</tr>
<tr>
<td>space available/deficit</td>
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<td>-91</td>
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<tr>
<td>Oak View</td>
<td>358</td>
<td>358</td>
</tr>
<tr>
<td></td>
<td>382</td>
<td>422</td>
</tr>
<tr>
<td>space available/deficit</td>
<td>-24</td>
<td>-64</td>
</tr>
<tr>
<td>Montgomery Knolls</td>
<td>501</td>
<td>501</td>
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<tr>
<td></td>
<td>513</td>
<td>514</td>
</tr>
<tr>
<td>space available/deficit</td>
<td>-12</td>
<td>-13</td>
</tr>
<tr>
<td>Pine Crest</td>
<td>381</td>
<td>381</td>
</tr>
<tr>
<td></td>
<td>474</td>
<td>465</td>
</tr>
<tr>
<td>space available/deficit</td>
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<td>-84</td>
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<tr>
<td>Takoma Park</td>
<td>584</td>
<td>584</td>
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<tr>
<td></td>
<td>657</td>
<td>665</td>
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<td>space available/deficit</td>
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<td>-81</td>
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<tr>
<td>Pinney Branch</td>
<td>611</td>
<td>611</td>
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<td>527</td>
<td>559</td>
</tr>
<tr>
<td>space available/deficit</td>
<td>84</td>
<td>52</td>
</tr>
</tbody>
</table>

**Total Capacity** | 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  |
**space available/deficit** | -869  | -1,082 | -1,163 | -1,114 | -1,100 | -1,021 |
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.
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.
- 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

The Capacity Study Process
Goals of Today’s Meeting

- 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
Understanding the Existing School

- Current Core Capacity – 640
- Current Program Capacity – 381
- Current Enrollment (2014-15) - 474
- Proposed Core Capacity – 640
- Projected Program Capacity w/ Addition – 657/646* 
- Projected Enrollment 2020-21 – 441
- Projected Excess Capacity after Addition – (216/205)*

* Capacities Provided for 3-5 and PreK-5 Options respectively

- Currently has Capacity Deficit (-93)
- Currently 5 Relocatables
- Two Story School
- Small Site (7.0 Acres)
- Paired with Montgomery Knolls ES
- Grades 3-5

- Original School Built in 1975 (only the gym remains)
- Addition in 1992 (the rest of the school)

- Design Issues / Constraints
  - Adjacent Parks
  - School on Property Line
The Existing School – Floor Plans
- Small Site
- 5 Relocatables
- Construction Access
- Staging Location
- Adjacent Properties
  - West (forest) – MCPS
  - North (field) - MNCPPC
The Space Summaries from MCPS identify spaces required to achieve
- 640 Core Capacity and a 657/646* Program Capacity
  * Capacities Provided for 3-5 and PreK-5 Options respectively

Space Summary for Grades 3-5
Net vs. Gross SF
- 16,300 Net SF needed
- @24,450 Gross SF needed

Space Summary for Grades PreK-5
Net vs. Gross SF
- 21,400 Net SF needed
- @32,100 Gross SF needed
Two-Story Addition in Rear of School
  - Create Loop Circulation

One Story Additions
  - MP Room
  - Front Office

Repurpose Existing Stair

Main Level Addition – 11,800 SF
Upper Level Addition – 10,000 SF
Total Addition – 21,800 SF

Main Level Renovation – 300 SF
Upper Level Renovation – 1,000 SF
Total Renovation SF – 1,300 SF

Design Option – Grades 3-5 - Floor Plans
- Hard play area shifted
- 8’ tall retaining wall required to relocate hard play area
- Relocate Soft Play
- Trees Affected
- Construction Access from Service Area
- Staging Area on Existing Hard Play
Design Option – Grades PreK-5 - Floor Plans

- Two-Story Addition in Rear of School
  - Create Loop Circulation
- One Story Additions
  - MP Room
  - Front Office
  - Support Spaces
- Repurpose Existing Stair

Main Level Addition – 17,500 SF
Upper Level Addition – 11,100 SF
Total Addition – 28,600 SF

Main Level Renovation – 360 SF
Upper Level Renovation – 1,000 SF
Total Renovation SF – 1,360 SF
- Hard play to shift more in this option
- 10’ tall retaining wall required to relocate hard play area – longer wall than 3-5 option
- Relocate Soft Play
- Add K Play Areas
- Phased Construction Access - First from Service Area and then at Front Parking Area
- Phased Staging Area - First on Existing Hard Play and then at Front Parking Area
Design Options – Grades 3-5 & PreK-5 – Site Comparison
Questions?