NEW ELEMENTARY SCHOOL

At Thomas Jefferson Middle School



^{22 April 2017} 1 Use Permit Hearing

Project Parameters

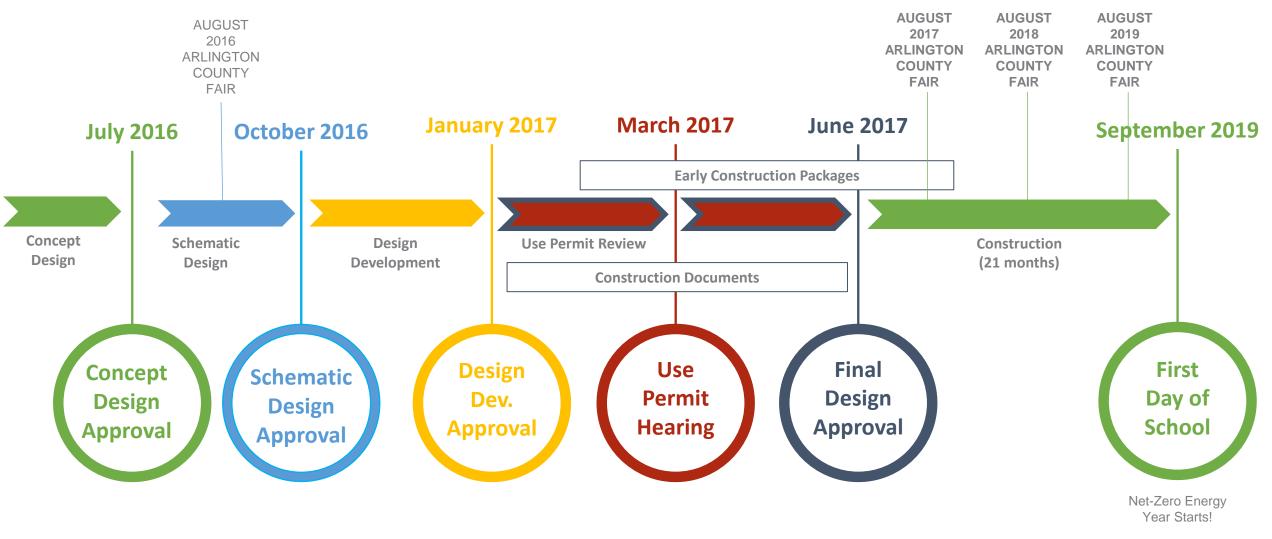
NEW ELEMENTARY SCHOOL At Thomas Jefferson Middle School

- 1. New Elementary School for the Henry Community
- Support Strategic Plan Goal #4 Provide Optimal Learning Environments
- 3. Address capacity by providing at least 725 seats
- 4. Open by start of school 2019
- 5. Multi-story building in northwest corner of site
- 6. Structured parking
- 7. Project cost \$59 million

Project Chronology | Timeline

October 2012	FY 2013-2022 CIP identifies Kenmore site as the location of a new elementary school
June 2014	FY 2015-2024 CIP identifies Jefferson site as preferred location for a new elementary school
September 2014	County Board appointed TJWG begins
January 2015	TJWG issues Final Report and County Board decides "not now" to a new elementary at the Jefferson site
June 2015	School Board appointed SAWG begins
November 2015	SAWG issues Final Report including a preference to build a new elementary school for Henry at Jefferson
December 2015	School and County Board approves Jefferson as the site for a new elementary school
March 2016	School Board approves first three preferences of the SAWG
April to September 2016	BLPC & PFRC input during Concept and Schematic Design phases
November 2016	Use Permit submission
April 2017	Use Permit hearing
July 2017	Estimated start of construction
September 2019	School Opening

General Schedule | Timeline



CB Meeting 4 Overall schedule





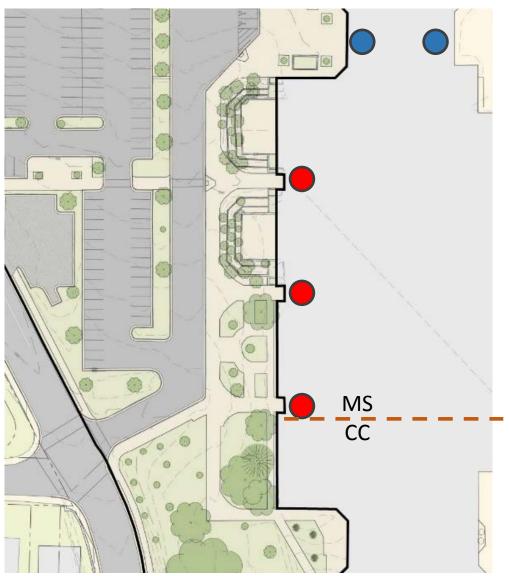
Overall proposed site plan

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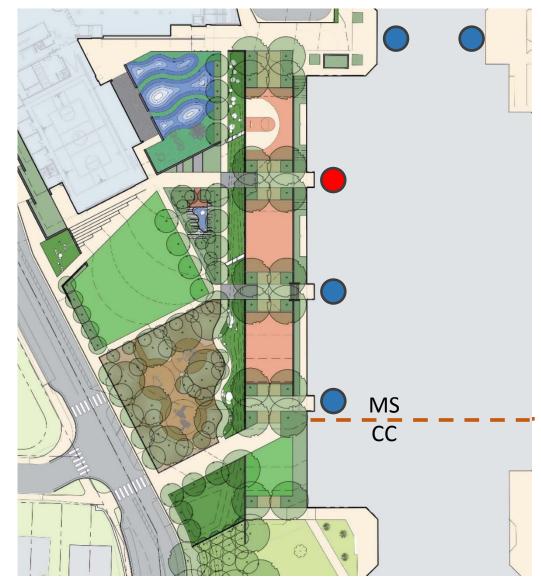
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Site Plans

Existing condition



Final Design



22 April 2017 **CB** Meeting

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Middle school entries





Existing Condition



38.6% pervious3.7% semi57.7% impervious

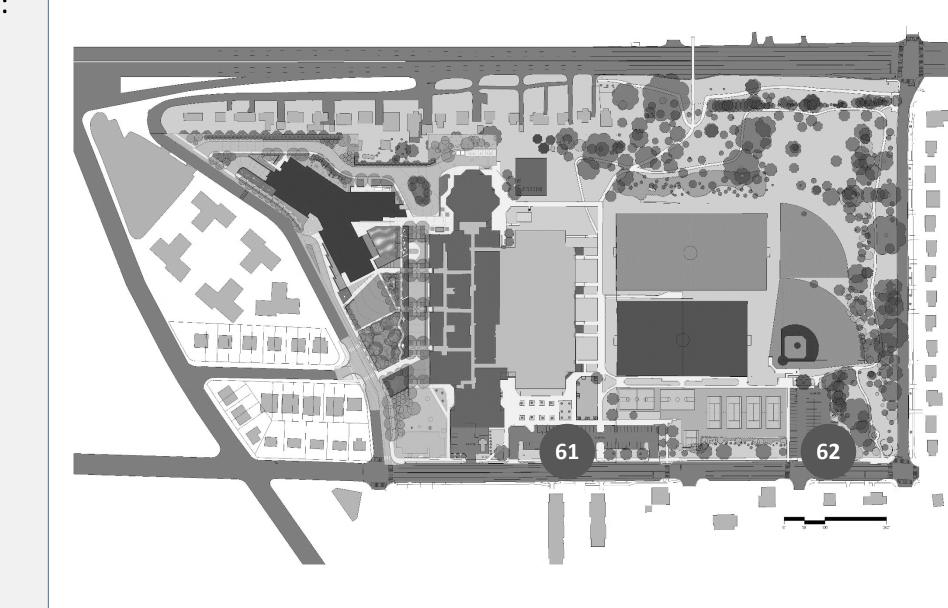
Proposed Condition



34.3% pervious8.8% semi56.9% impervious

^{22 April 2017} 7 Pervious v/s Semi-Pervious v/s Impervious

APS Parking Demand: **250 spaces**

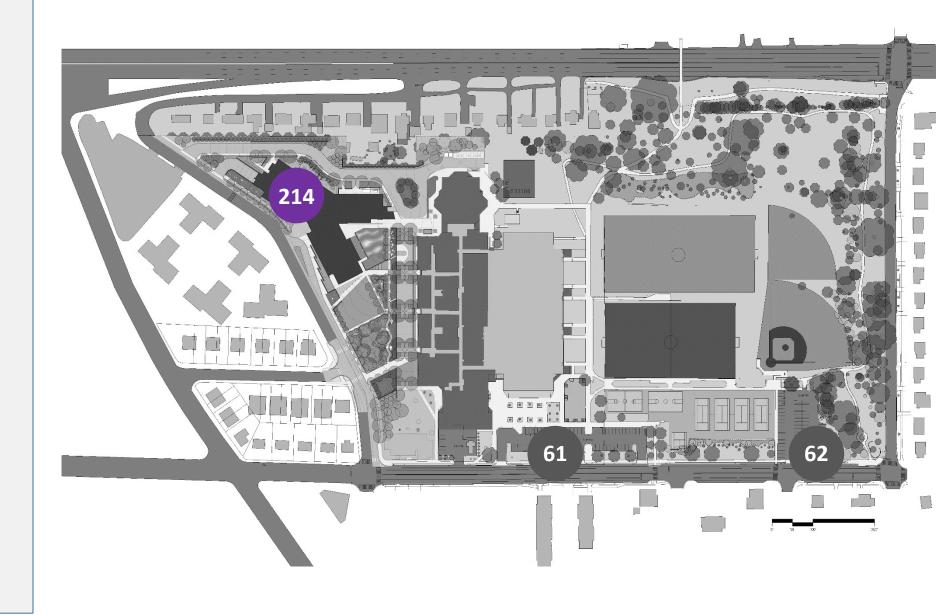


^{22 April 2017} 8 Proposed Parking Supply & Occupancy

APS Parking Demand: **250 spaces**

APS Proposed Parking Supply & Occupancy:

214 garage



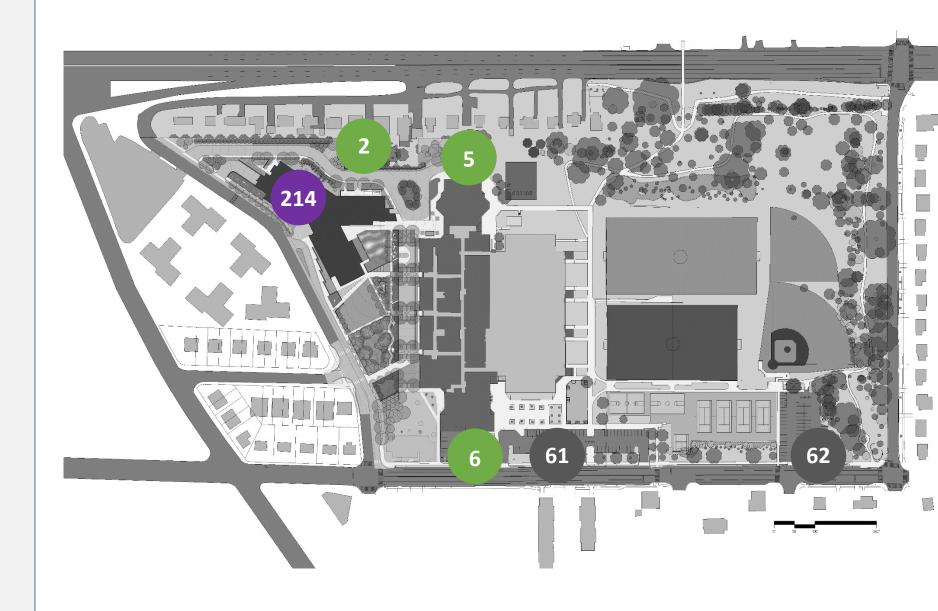
Proposed Parking Supply & Occupancy

APS Parking Demand: 250 spaces

APS Proposed Parking Supply & Occupancy:

> 214 garage **13** surface

CB Meeting



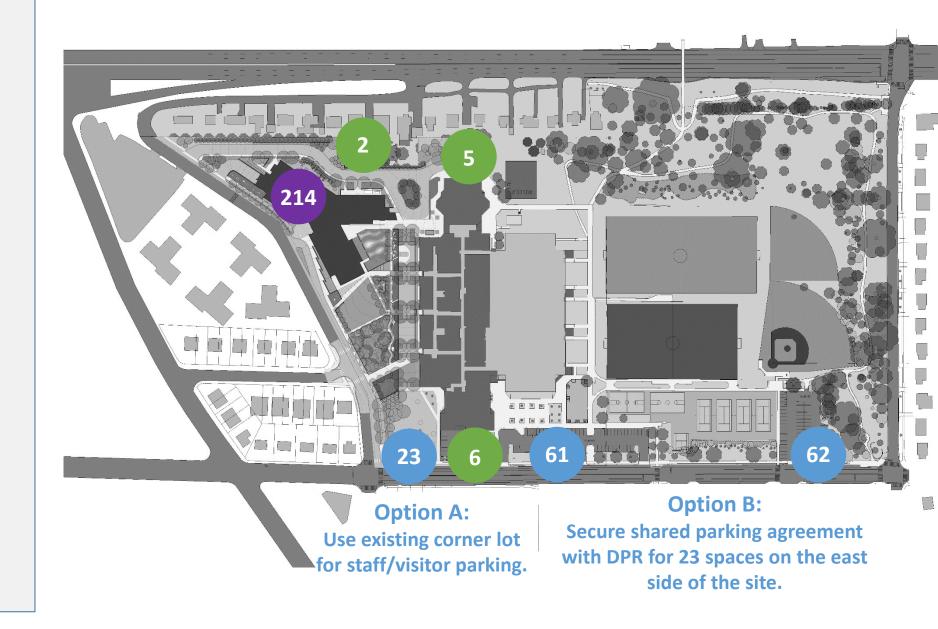
Proposed Parking Supply & Occupancy 22 April 2017 10

APS Parking Demand: **250 spaces**

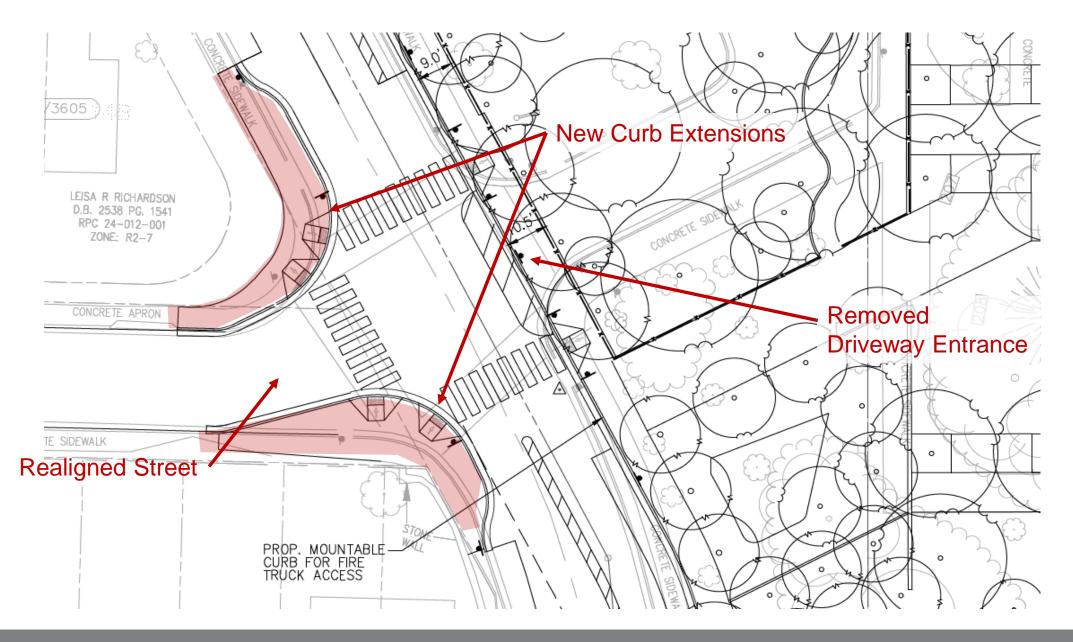
APS Proposed Parking Supply & Occupancy:

214 garage + 13 surface + 23 existing (option A or B)

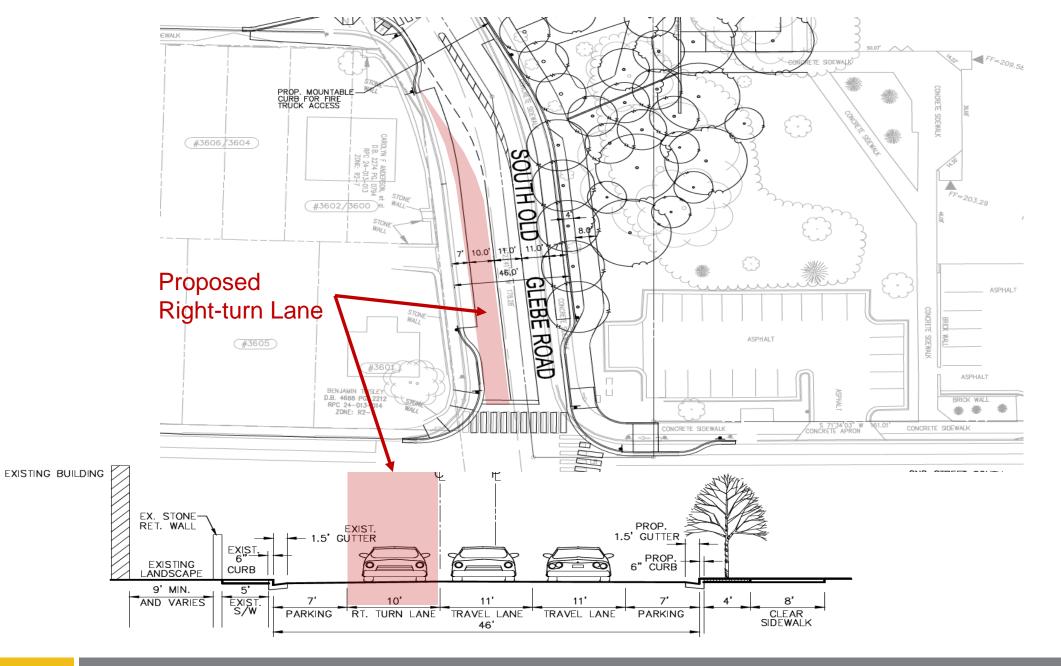
250 spaces



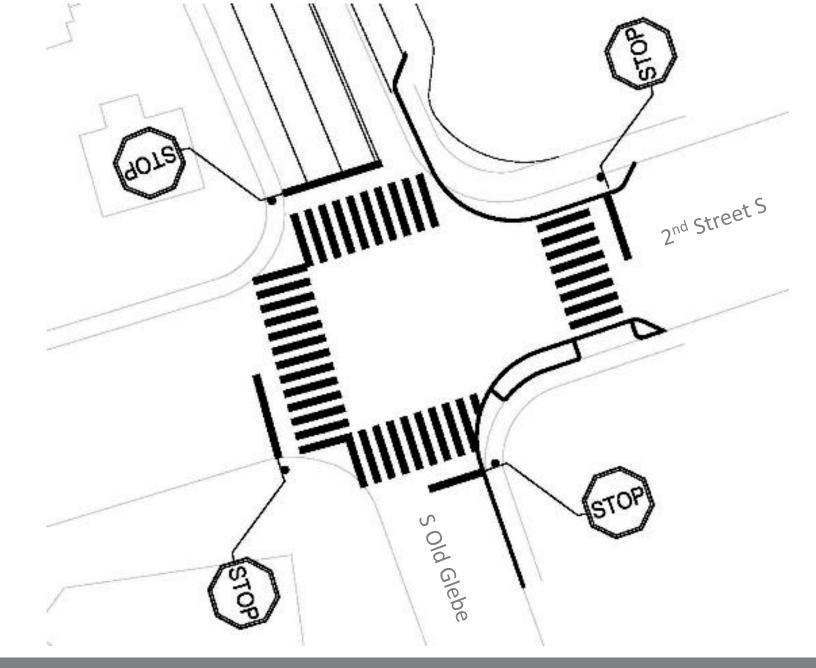
^{22 April 2017} 11 Proposed Parking Supply & Occupancy



Reconstruct Intersection of 1st and South Old Glebe



New Southbound Right-Turn Proposed



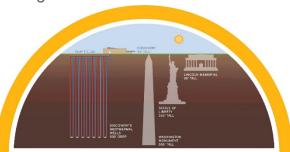
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Install new 4 – way stop at 2nd Road S and S Old Glebe





Along SOG



GEOTHERMAL WELL FIELD

Two-thirds of the south soccer field's length has a well field below it. Prior to building the soccer field, 70 wells were drilled 500 feet into the earth. These wells are spaced 20 feet apart and contain a closed-loop pipe for moving water through earth. The water is always contained within the pipe, but in the process of circulating through the 70,000 linear feet of underground piping, heat is transferred between the water and the earth through the pipe's walls.

When it's cold outside, Discovery's heat pumps take heat from the water and use it to warm the school's inside air. The water is now cooler and it is sent back to the earth to be warmed up. When it's hot outside, the heat pumps pull heat from the school and discharge it into the water. The water is now warmer and it is sent back to the earth to be cooled down.





North of theater

Two permanent wells already drilled down to 560 feet with conductivity results as expected.

70 more wells will be drilled during construction when the site is fenced off and in full site construction mode.

This is one of the largest energy saving aspects of the project. This also prevents the need for noisy exterior cooling towers, which often draw complaints in the summer

Example of construction signage

Geothermal well drilling













CB Meeting 21 Aerial View: Final Design







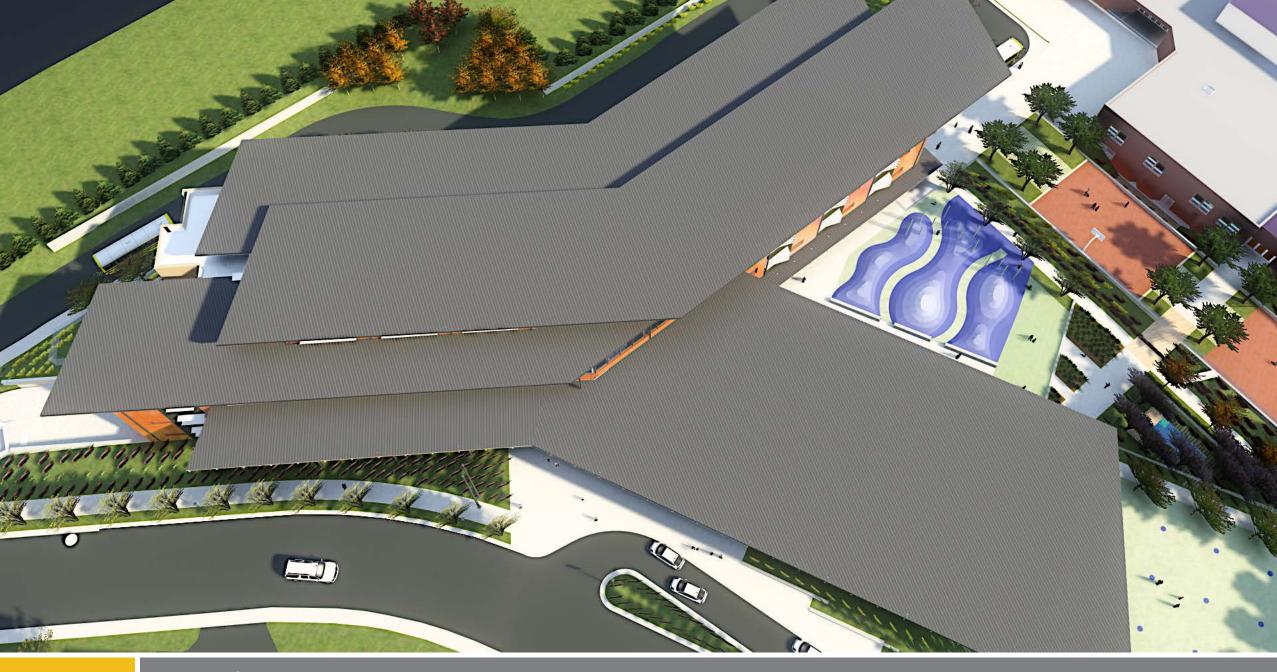
CB Meeting 23 Second floor plan



CB Meeting 24 Third floor plan



EXAMPLE 2017 25 Fourth floor plan



CB Meeting 26 Roof plan

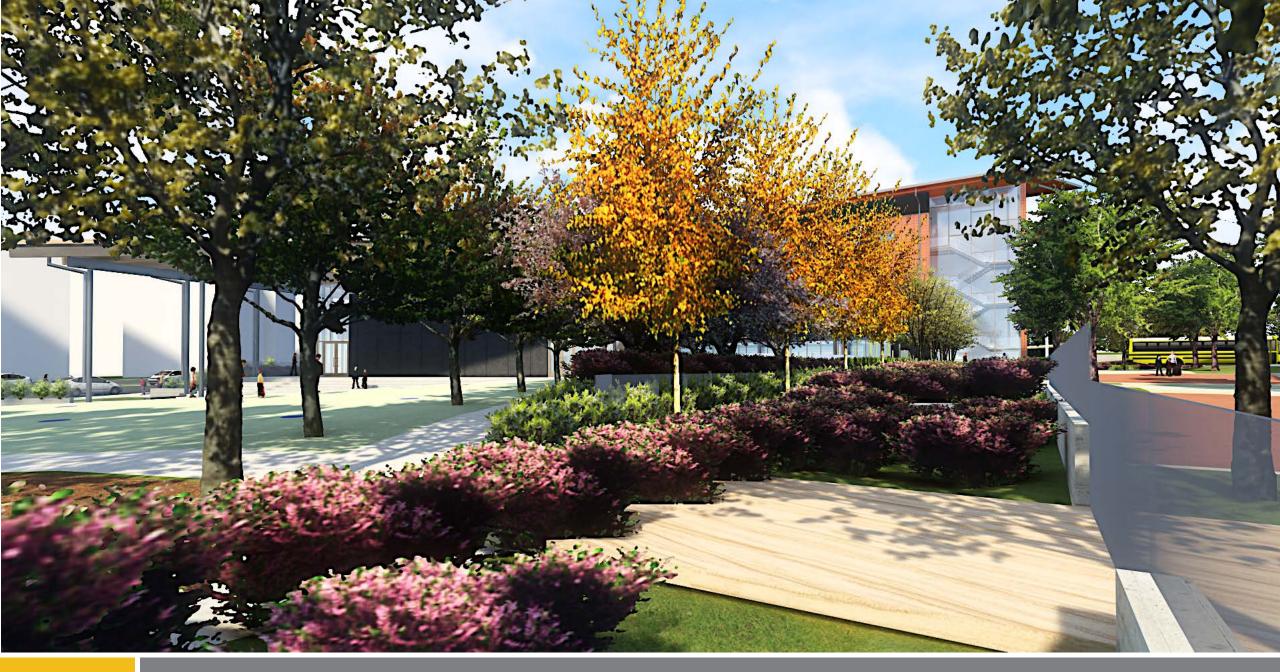




^{22 April 2017} 27 Perspective view of south elevation: Final Design



^{22 April 2017} 28 Perspective view of courtyard elevation: Final Design



^{22 April 2017} 29 Perspective view of bioswale: Final Design



^{22 April 2017} 30 Perspective view of school entry: Final Design



^{22 April 2017} 31 Perspective view of site entry: Final Design



22 April 2017 CB Meeting 32 Perspective view of playfield at gym: Final Design



^{22 April 2017} 33 Perspective view of gym from MS: Final Design



Perspective view of gym from courtyard: Final Design 22 April 2017 34

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^{22 April 2017} 35 Aerial view of school courtyard: Final Design



Perspective view of ES from MS entry: Final Design 36



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Perspective view of ES from bus loop plaza: Final Design



Perspective view of MS play areas: Final Design 38

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^{22 April 2017} 39 Perspective view of ES courtyard: Final Design



Perspective view of MS play areas looking north: Final Design 40

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^{22 April 2017} 41 Perspective view of north elevation at bus drive: Final Design



Perspective view of west elevation: Final Design 42



^{22 April 2017} 43 Perspective view of public entry to gym: Final Design



Perspective view of building from Arbors parking lot: Final Design 44



Perspective view of public entry to gym: Final Design 45



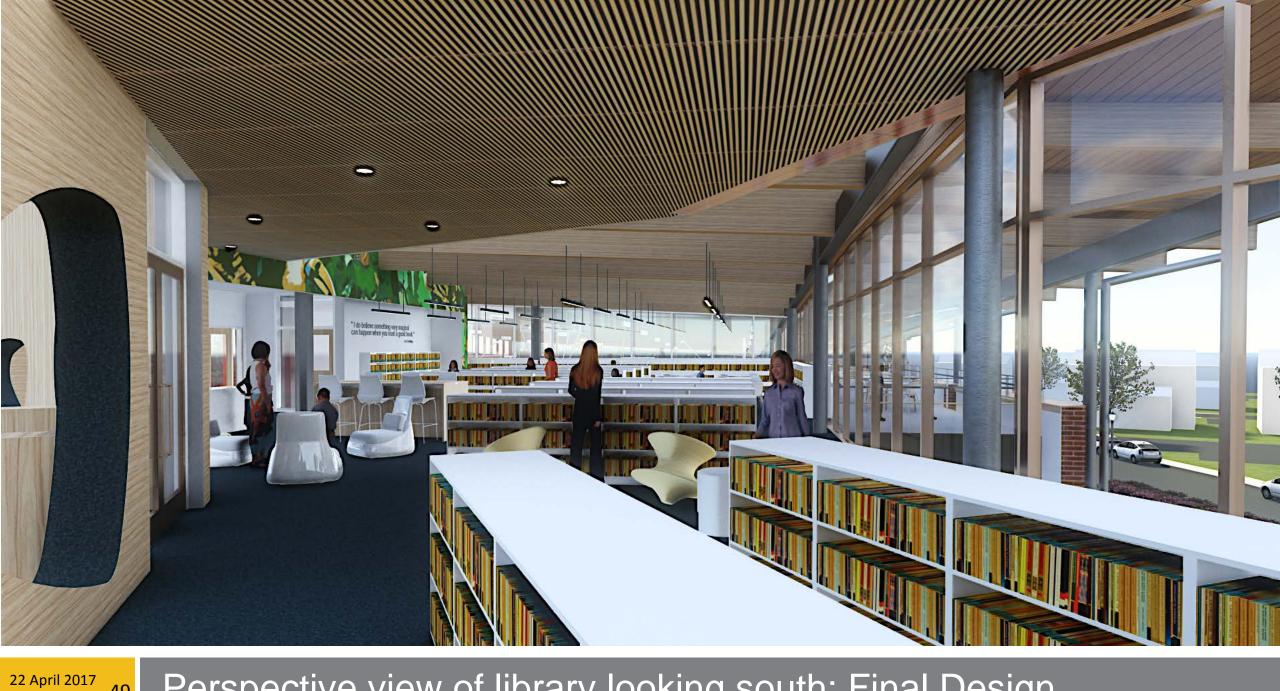
^{22 April 2017} 46 Perspective view of entry lobby: Final Design



Perspective view of 2nd floor at "hub": Final Design 47



22 April 2017 CB Meeting 48 Perspective view of library looking north: Final Design



Perspective view of library looking south: Final Design 49

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^{22 April 2017} 50 Perspective view of library reading porch: Final Design



22 April 2017 CB Meeting 51 Perspective view of art rooms from corridor: Final Design



^{22 April 2017} 52 Perspective view of storysteps connecting levels 3&4: Final Design



^{22 April 2017} 53 Perspective view of 4th floor break-out space: Final Design



^{22 April 2017} 54 Perspective view of gym and stage: Final Design



^{22 April 2017} 55 Perspective view of cafeteria looking west: Final Design



^{22 April 2017} 56 Perspective view of cafeteria looking south: Final Design

Questions/Discussion

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