

ШІСБОП БСНООС

1601 Wilson Boulevard, Arlington, VA

Planning Commission Hearing February 13, 2017



SCHEMATIC DESIGN OVERVIEW

AERIAL MODEL PHOTO

Total Area:180,621 GSFTotal Height:77'-0"

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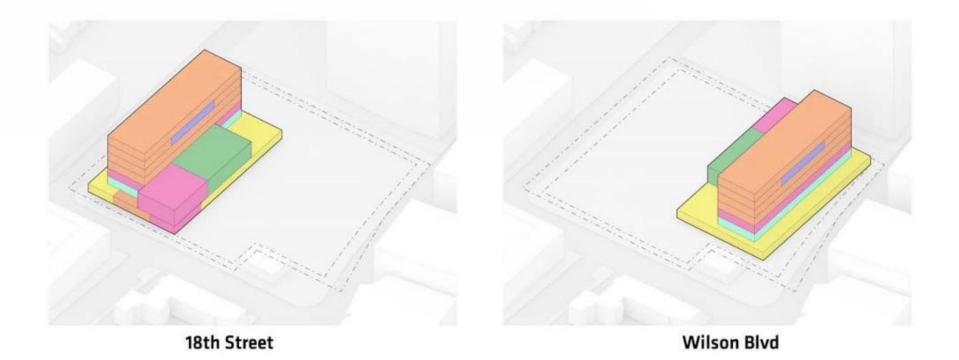
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WILSON SCHOOL ... SCHOOL BOARD INFORMATIONAL BRIEFING . JULY 1, 2015

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BUILDING LOCATION

Total Area:180,621 GSFTotal Height:77'-0"



BUILDING LOCATION

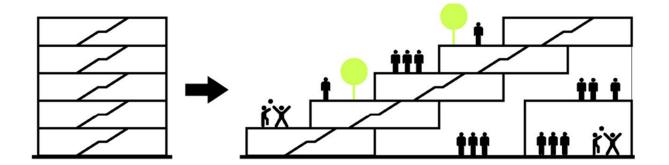
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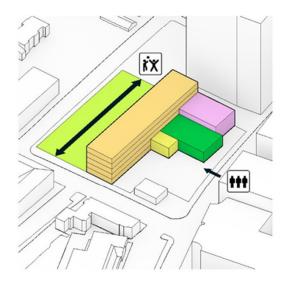
Wilson Blvd

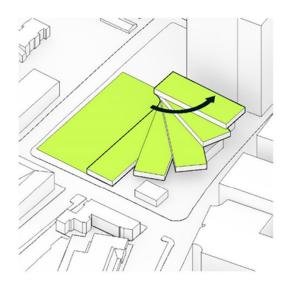
2 PROGRAMS € 1 COMMUNITY

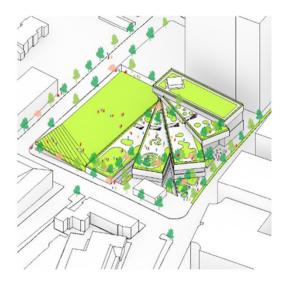
The major goal for the new facility is to increase collaboration between the Stratford and H-B Woodlawn programs and make the school more inclusive for all students.



The small site requires that the project be designed across multiple levels. The key objective during the design process has been to maintain the feeling of a 1-story school while still benefiting from the efficiencies afforded by a multiple story building.







1. BASIC SITING & ORGANIZATION

As a starting point the most basic site organization is laid out. A vertical stack of classroom bars stretches across the center of the site, creating a protective barrier between the athletic field and the busy urban corridor of Wilson Blvd. The large and community accessible spaces are grouped together along the Wilson Blvd frontage.

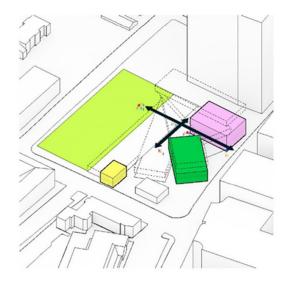
2. FANNING OF CLASSROOM BARS

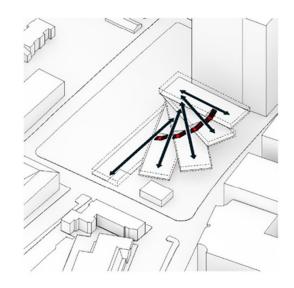
To create more day lit surface area and accessible outdoor space the classroom bars are rotated or "fanned" around a pivot point. The resulting massing helps transition from the low-rise buildings to the west of the site to the high-rise buildings to the east.

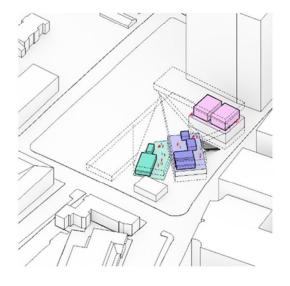
3. ACTIVATION OF TERRACES

The resulting terraces are programmed and planted in order to take the fullest advantage of the newfound contained outdoor space on the school. The terraces are planted in order to provide shade to themselves as well as the classrooms adjacent to them. The overall affect is that each classroom bar feels like a 1-story school.

INTERIOR ORGANIZATION CONCEPT NARRATIVE







1. ARRANGE LARGE PROGRAMS

Large and public functions of the building are placed rearranged to take advantage of the multiple story spaces created by the fanning of the classroom bars. The community can access these major spaces through the multi level lobby.

2. INTERNAL CONNECTIONS

A central stair connects all of the classroom bars on the inside. From each classroom bar the major spaces of the building can be accessed.

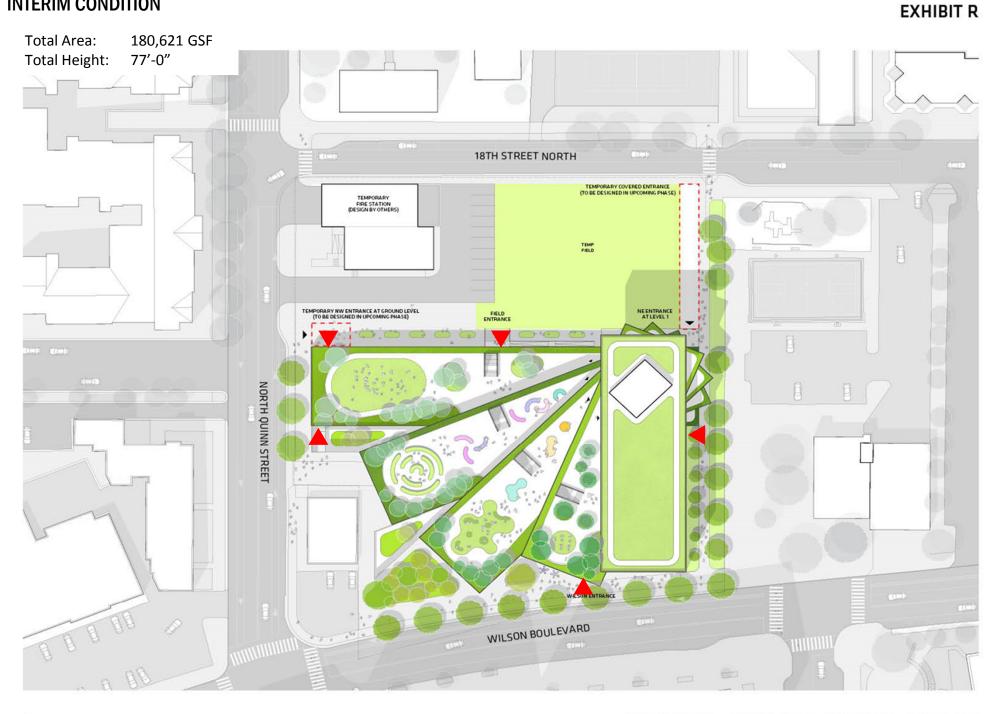
Directly above the interior central stair is an exterior stair connecting all the 4 accessible terraces and the field.

3. IN BETWEEN SPACES

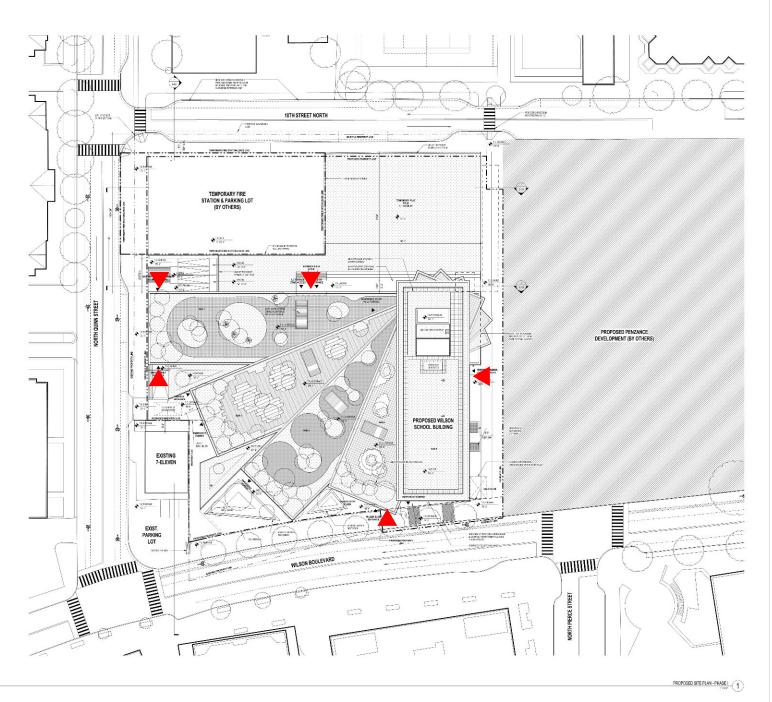
The medium sized communal spaces such as the cafeteria, library, and music rehearsal rooms are located between the boxes of the large programs and the classroom bars.

The library sits on top of the gym, and the music rehearsal spaces sit on top of the theater. Each has a unique identity and is located to maximize functional adjacencies.

INTERIM CONDITION



INTERIM CONDITION



Total Area:180,621 GSFTotal Height:77'-0"



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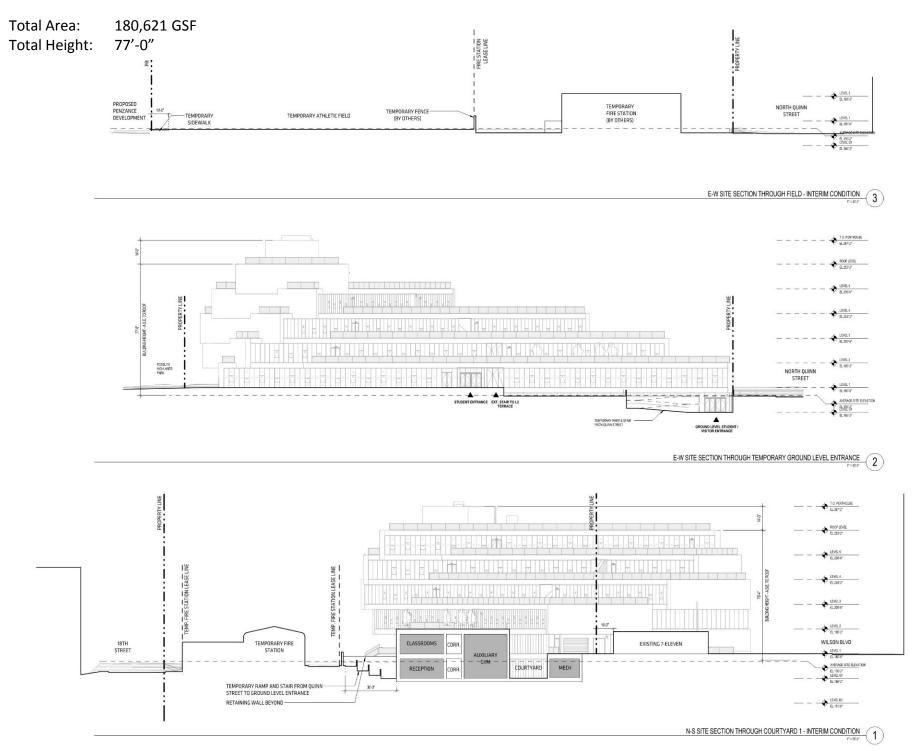
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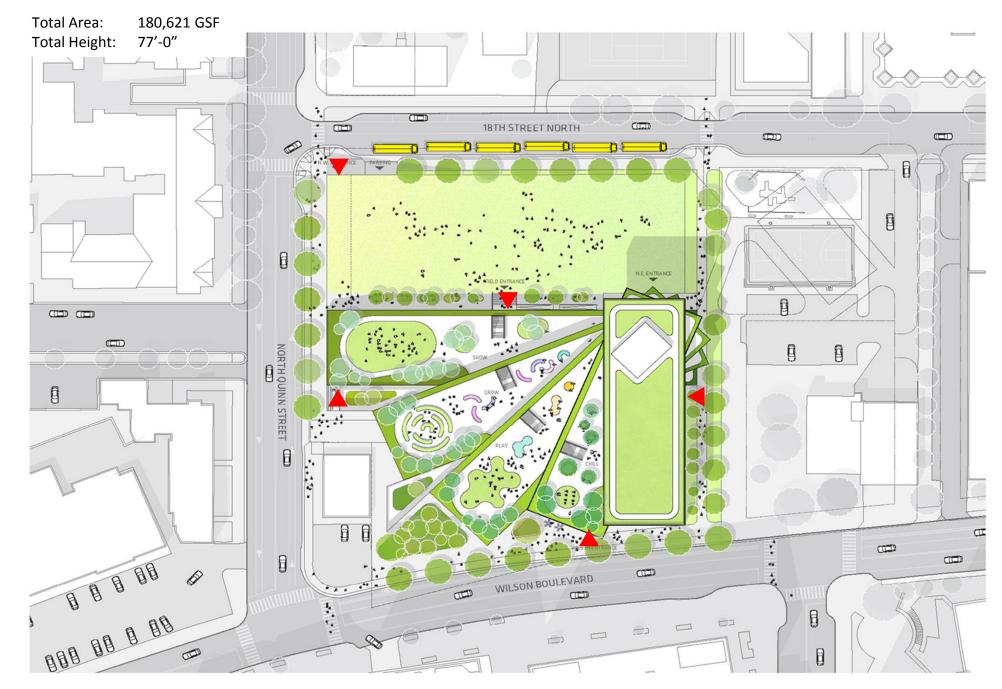
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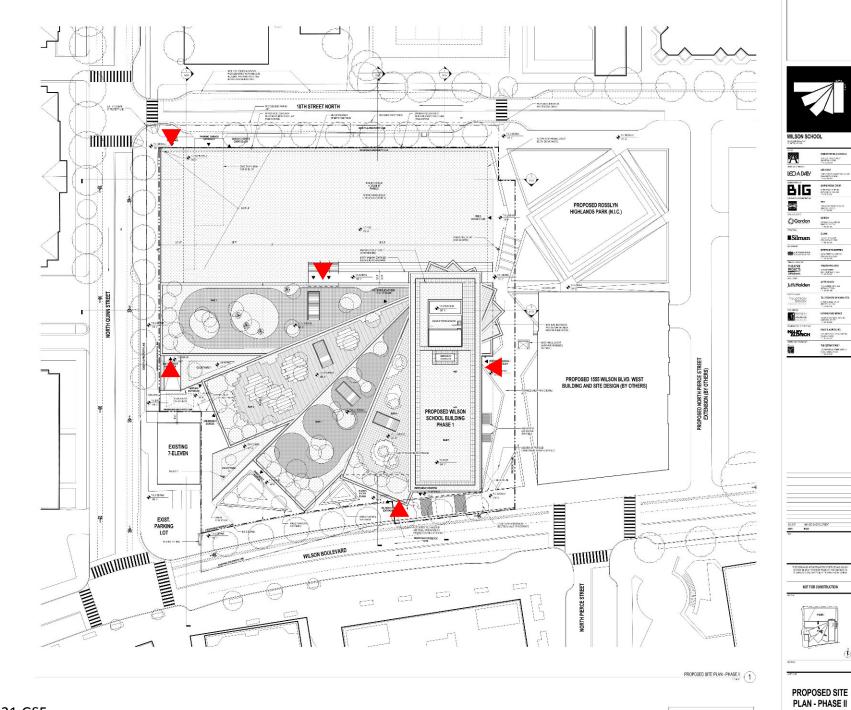
INTERIM CONDITION



FINAL CONDITION



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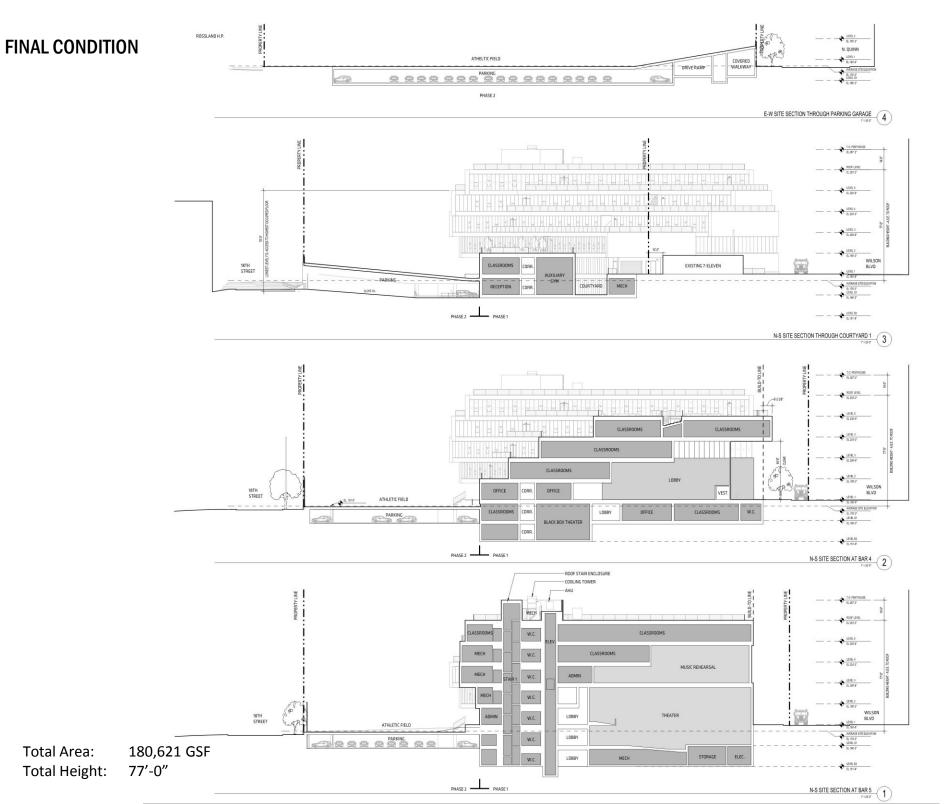
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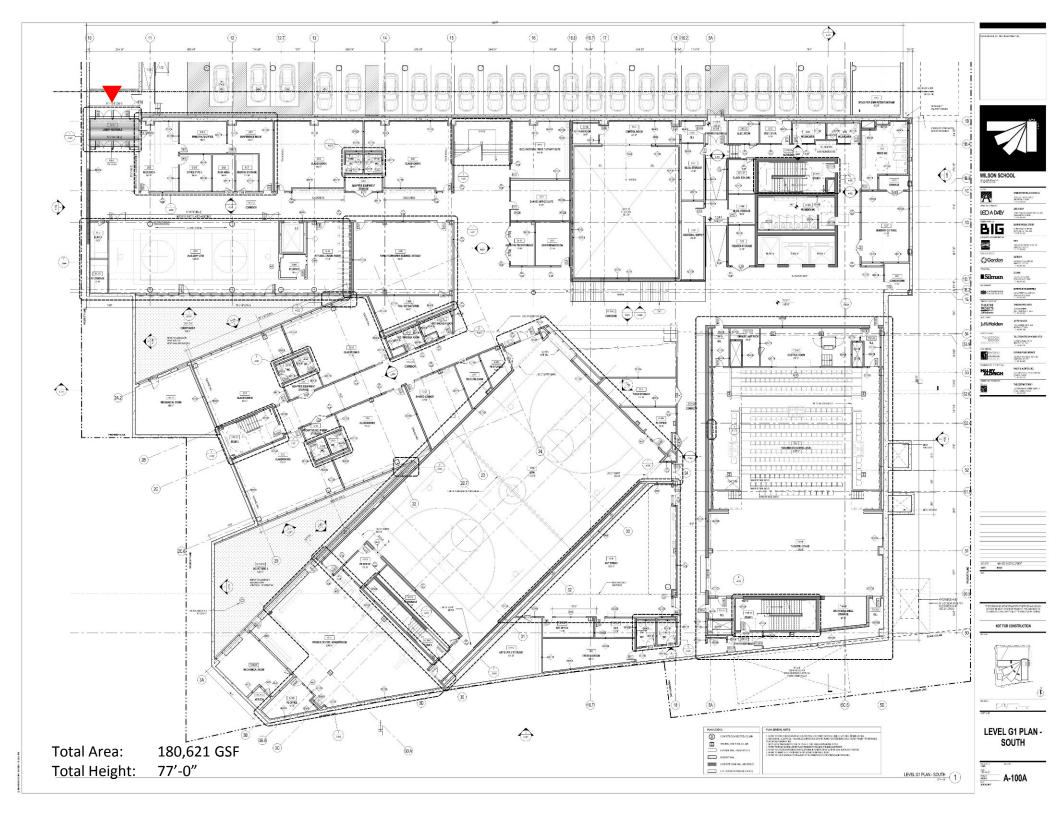
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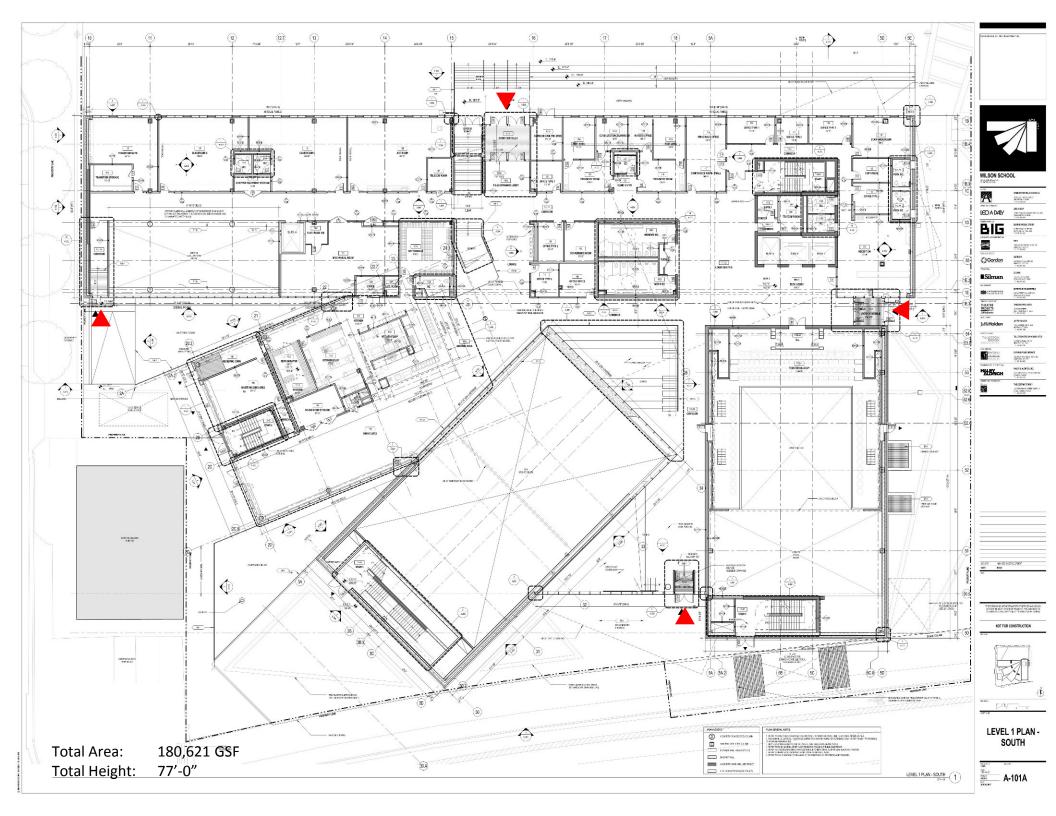
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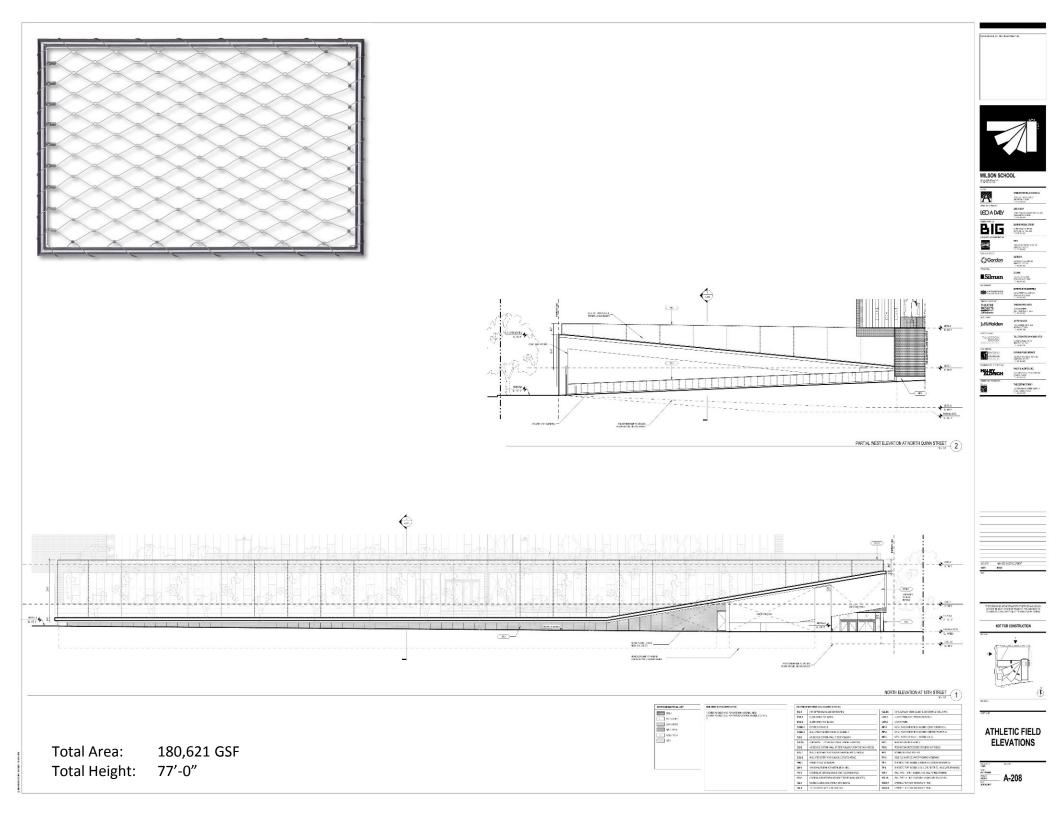
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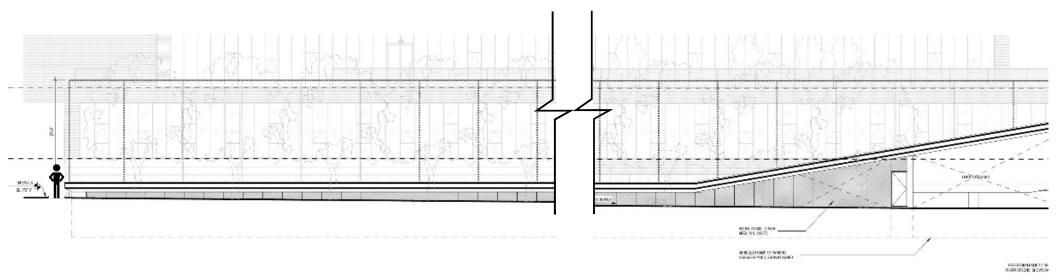








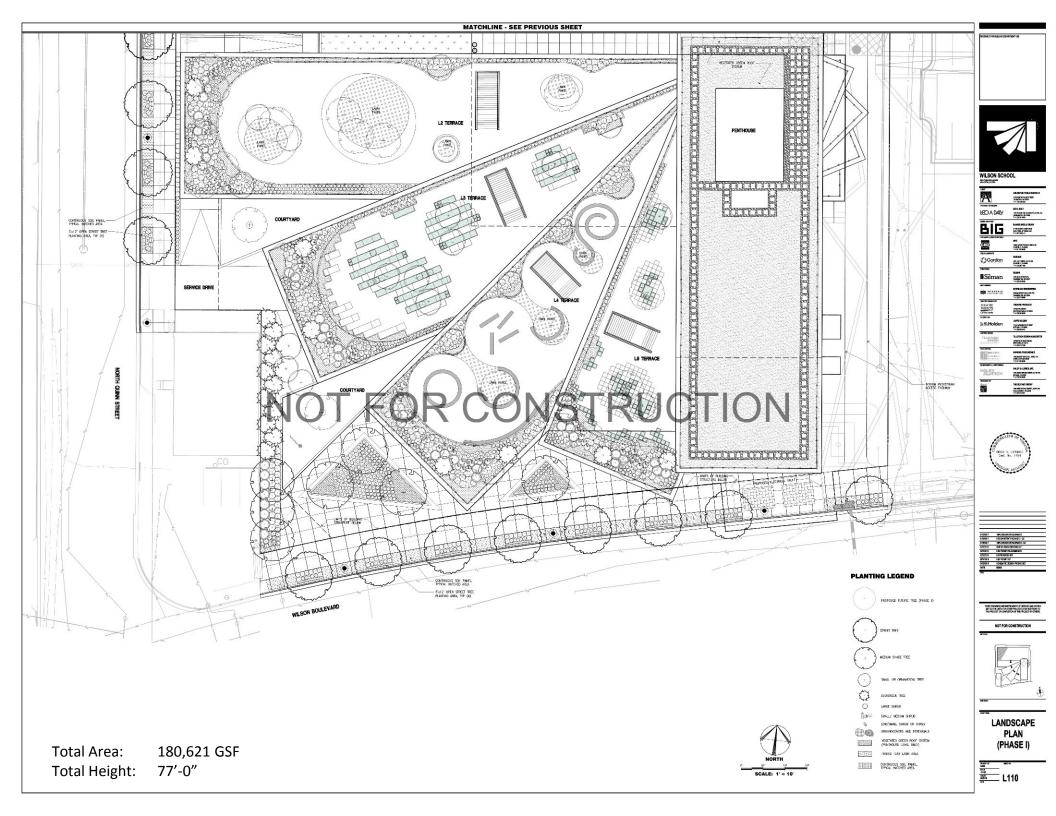




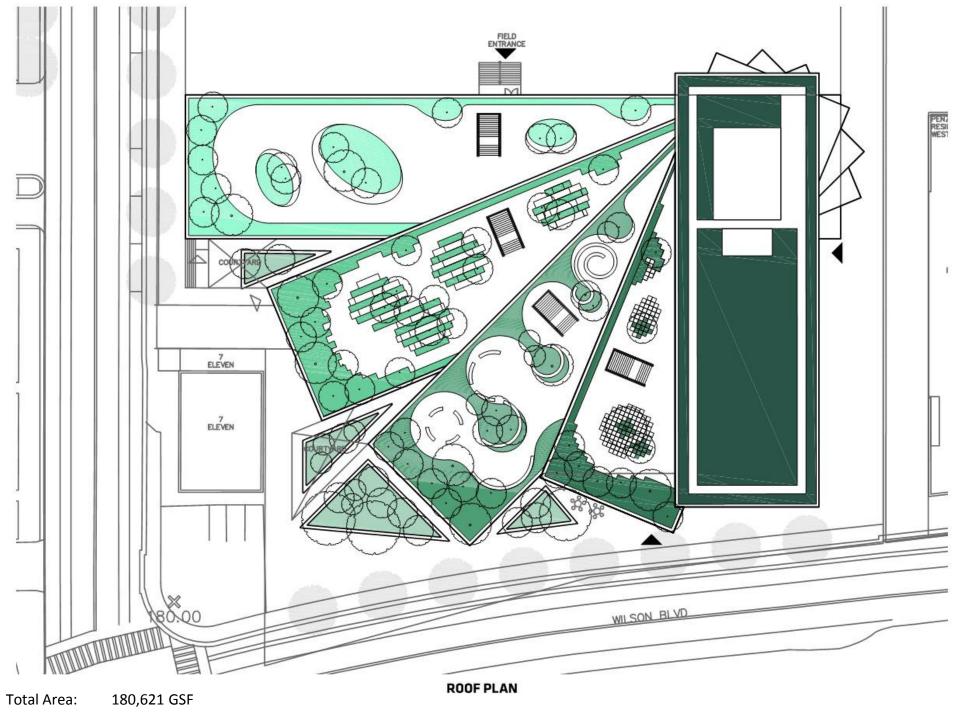
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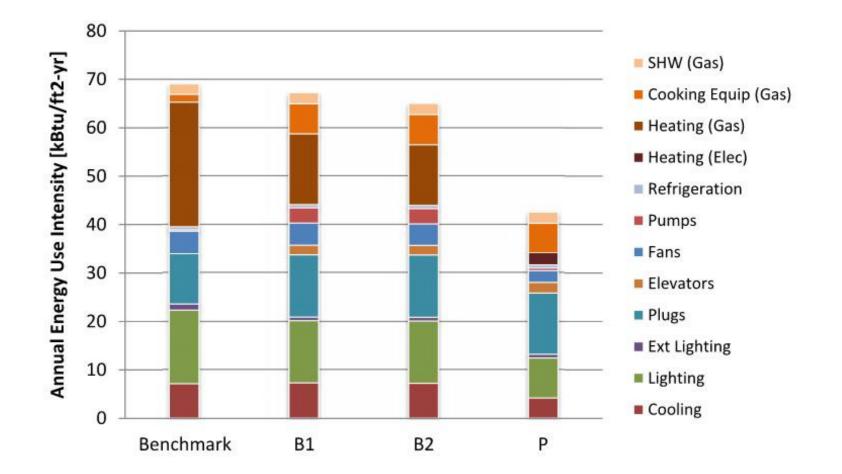


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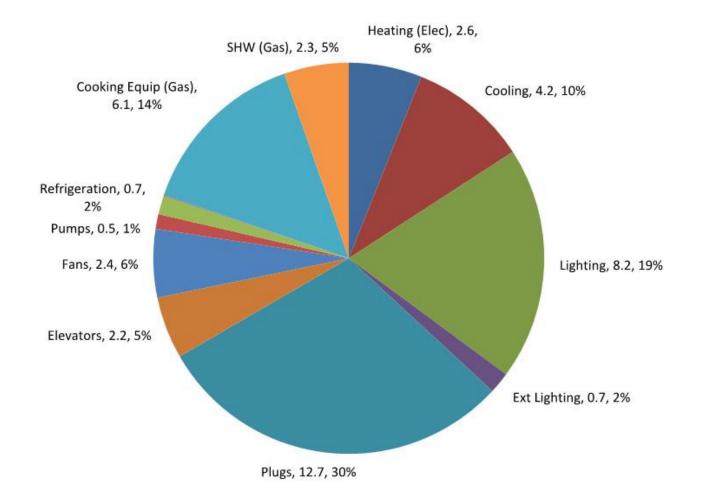
ENERGY / SUSTAINABILITY

Proposed Measure Result Summary

| | Model Description | Utility Cost | Cumulative Cost Savings | Site EUI kBtu/ft2 | |
|----|--|--------------|----------------------------|----------------------|--|
| ID | | Cost [\$] | [%] | | |
| | Benchmark | | | 68.9 | |
| B1 | ASHRAE BASELINE | 276,558 | 0 | 67.2 | |
| B2 | 2012 Virginia Energy Conservation Code | 272,065 | 1.6 % | 65.0 | |
| Р | Proposed Design | 198,100 | 28.4 % | 42.7 | |



Proposed End Use BreakDown [End Use, EUI (kbtu/ft2), %]



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| LEED-S v2009 Project Scorecard | | | | | | Wils Arling 2/1/20 | ton P | S | | C | | | | |
|---|---------|-----------------------|---------------------------|--------------|---|--------------------------|--------|--|--------------|------|----------------------|---|-------|----|
| | Ú. | T | 1 | Minim | um Program Requirements | | | 6 | 1 | | Materia | als & Resources Possible F | oints | a. |
| Y | ?Y | ' ?N | N | PIM | Misimum Dream Deguisemente | | | Y | 7Y ?! | N | Ineres (| Starage & Collection of Pagualablas | | |
| No. of Lot, No. | - | | | Plf2 | Minimum Program Requirements | | | T | - | 2 | Prereq 1 | Storage & Collection of Recyclables | | |
| Y | - | - | | PII2 PII3 | Project Summary Details | | | | _ | _ | Credit 1.1 | Building Reuse: Maintain Existing Walls, Floors, and Roof | als. | |
| Y | | _ | - | | Occupant & Usage Data | | | - | _ | 1 | - | Building Reuse: Maintain 50% of Interior Non-Structural Element | nts | |
| Y | | | | Plf4 | Schedule & Overview Documents | | | 2 | - | - | Credit 2 | Construction Waste Management: 50%/ 75% | | |
| 10 | 0 | | - | Quete | nable Cites | Dessible Deinte | 24 | - | - | 2 | Credit 3 | Materials Reuse: 5%/ 10% | | |
| 18 Y | 2 ?Y | | | Susta | nable Sites | Possible Points | 24 | 2 | - | - | Credit 4 Credit 5 | Recycled Content: 10%/ 20% | | |
| Y | 24 | 21N | N | | Construction Activity Ballistics Brownster | | | 2 | - | | | Regional Materials: 10%/ 20% | | |
| | - | - | - | Prereq 1 | Construction Activity Pollution Prevention | | | - | | | Credit 6 | Rapidly Renewable Materials: 2.5% | | |
| Y | - | - | - | Prereq 2 | Environmental Site Assessment | | | | 1 | | Credit 7 | Certified Wood: 50% | | |
| 1 | - | - | - | Credit 1 | Site Selection | | 1 | | | | 1 | E | | |
| 4 | - | - | - | Credit 2 | Development Density & Community Connectivit | У | 4 | Apartment of the local division of the local | 8 | | Indoor | Environmental Quality Possible F | oints | |
| 1 | | - | - | Credit 3 | Brownfield Redevelopment | | 1 | Party and Party | ?Y ?! | N N | | W. I | | |
| 4 | | | _ | Credit 4.1 | Alternative Transportation: Public Transportation A | | 4 | Y | _ | - | Prereq 1 | Minimum IAQ Performance | | |
| | _ | 1 | | Credit 4.2 | Alternative Transportation: Bicycle Storage & Char | | 1 | Y | | | Prereq 2 | Environmental Tobacco Smoke (ETS) Control | | |
| 2 | | _ | _ | Credit 4.3 | Alternative Transportation: Low Emitting & Fuel Eff | icient Vehicles | 2 | Y | _ | _ | Prereq 3 | Minimum Acoustical Performance | | |
| 2 | | | _ | Credit 4.4 | Alternative Transportation: Parking Capacity | | 2 | | 1 | _ | Credit 1 | Outdoor Air Delivery Monitoring | | |
| | | 2 | _ | Credit 5.1 | Site Development: Protect or Restore Habitat | [RP | 1 1 | | | 1 | Credit 2 | Increased Ventilation: 30% | | |
| | | | | Credit 5.2 | Site Development: Maximize Open Space | | 1 | 1 | | _ | Credit 3.1 | Construction IAQ Management Plan: During Construction | | |
| | 1 | | | Credit 6:1 | Stormwater Design: Quantity Control | | 1 | 1 | | | Credit 3.2 | Construction IAQ Management Plan: Before Occupancy | | |
| | | 1 | | Credit 6.2 | Stormwater Design: Quality Control | | 1 | 1 | | | Credit 4.1 | Low-Emitting Materials: Adhesives & Sealants | | |
| 1 | | _ | | Credit 7.1 | Heat Island Effect: Non-Roof | | 1 | 1 | | | Credit 4.2 | Low-Emitting Materials: Paints | | |
| | 1 | | | Credit 7.2 | Heat Island Effect: Roof | | 1 | 1 | | | Credit 4.3 | Low-Emitting Materials: Flooring Systems | | |
| | | 1 | | Credit 8 | Light Pollution Reduction | | 1 | 1 | | | Credit 4.4 | Low-Emitting Materials: Composite Wood & Agrifiber Products | k - | |
| | | | | Credit 9 | Site Master Plan | | 1 | | 1 | | Credit 4.5 | Low-Emitting Materials: Furniture & Furnishings | | |
| 1 | | | | Credit 10 | Joint Use of Facilities | | 1 | | | 1 | Credit 4.6 | Low-Emitting Materials: Ceiling & Wall Systems | | |
| | | | _ | | | | | Limmer Party of | 1 | | Credit 5 | Indoor Chemical & Pollutant Source Control | | |
| | 2 | 6 | 1 | Water | Efficiency | Possible Points | 11 | | 1 | | Credit 6.1 | Controllability of Systems: Lighting | | |
| | 7Y | ' ?N | N | 2 | | | | | 1 | | Credit 6.2 | Controllability of Systems: Thermal Comfort | | |
| | | | | Prereq 1 | Water Use Reduction: 20% Reduction | | | 1 | | | Credit 7.1 | Thermal Comfort: Design | | |
| | | | | Credit 1 | Water Efficient Landscaping | | 4 | 1 | | | Credit 7.2 | Thermal Comfort: Verification | | |
| | | 3 | | Credit 2 | Innovative Wastewater Technologies | [RP | 2 | 1 | 2 | | Credit 8.1 | Daylight & Views: Daylight 75% of Spaces | | |
| | 2 | 3 | | Credit 3 | Water Use Reduction: 30%/ 35%/ 40% | [RP | 4 | | 1 | | Credit 8.2 | Daylight & Views: Views for 90% of Spaces | | |
| | | | 1 | Credit 4 | Process Water Use Reduction | | 1 | 1 | | | Credit 9 | Enhanced Acoustical Performance | | |
| | | | | | | | | | 1 | | Credit 10 | Mold Prevention | | |
| | 11 | and the second second | and the second statements | Energ | y & Atmosphere | Possible Points | 33 | | | | | Alex & Dealers Dealers | | |
| | ?Y | 2N | N | Prereg 1 | Fundamental Commissioning of Building Energ | Custome | | Conception of the local diversion of the loca | 1 1 ?Y ?! | | Innova | tion & Design Process Possible F | oints | |
| , | | | - | Prereg 2 | Minimum Energy Performance | y Systems | | 1 | ci on | N 14 | Comment. | SSc4.1 E.P. | | |
| - | - | | - | | | | | 1 | | | - | | | |
| 2 | - | | - | Prereq 3 | Fundamental Refrigerant Management | | 10 | - | 1 | | - | SSc7.1 E.P. | | |
| 2 | 7 | | - | Credit 1 | Optimize Energy Performance: 8% and up | | 19 | 1 | | - | - | PC78 - Design for Active Occupants | | |
| | | - | 8 | Credit 2 | On-Site Renewable Energy: 1%-13% | [RP | N 18 - | 1 | - | - | Credit 1.4 | | | |
| 2 | - | _ | - | Credit 3 | Enhanced Commissioning | | 2 | 1 | | - | Credit 2 | LEED Accredited Professional | | |
| | | | - | Credit 4 | Enhanced Refrigerant Management | | 1 | | 1 | | Credit 3 | The School as a Teaching Tool | | |
| - | 2 | | | Credit 5 | Measurement & Verification | | 2 | - | | | | | | |
| | | | | Credit 6 | Green Power | | 2 | E7 . | 14 4 | 2 40 | Total | Possible P | ointe | |

