

Agenda

- Introductions
- Schedule
- Campus Plan Objectives
- Campus Design
- Lighting
- Sustainability
- Storm Water
- Circulation & Mobility
- Q & A



THE TEAM

- Perkins Eastman DC
 - Campus Design
 - Masterplanner
- Wells
 - Circulation and Mobility
- MCLA
 - Lighting
- Steven Winter Associates
 - Sustainability
- Wiles Mensch
 - Civil Engineering / Storm Water
- Mitchell Kuff
 - Signage



SCHEDULE

Working Group Schedule

	Facilities & Transportation Planning Working Group	Safety & Community Life Working Group			
April	4/14/2021	4/28/2021			
May	5/12/2021	5/26/2021			
June	6/9/2021	6/23/2021			
July	7/14/2021	7/28/2021			
August	8/11/2021	8/25/2021			
September	9/8/2021	9/22/2021			
All meeting will be virtual and start at 4:00 pm. Additional meetings will be scheduled if needed.					

GW

Campus Plan Objectives

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

STORM WATER

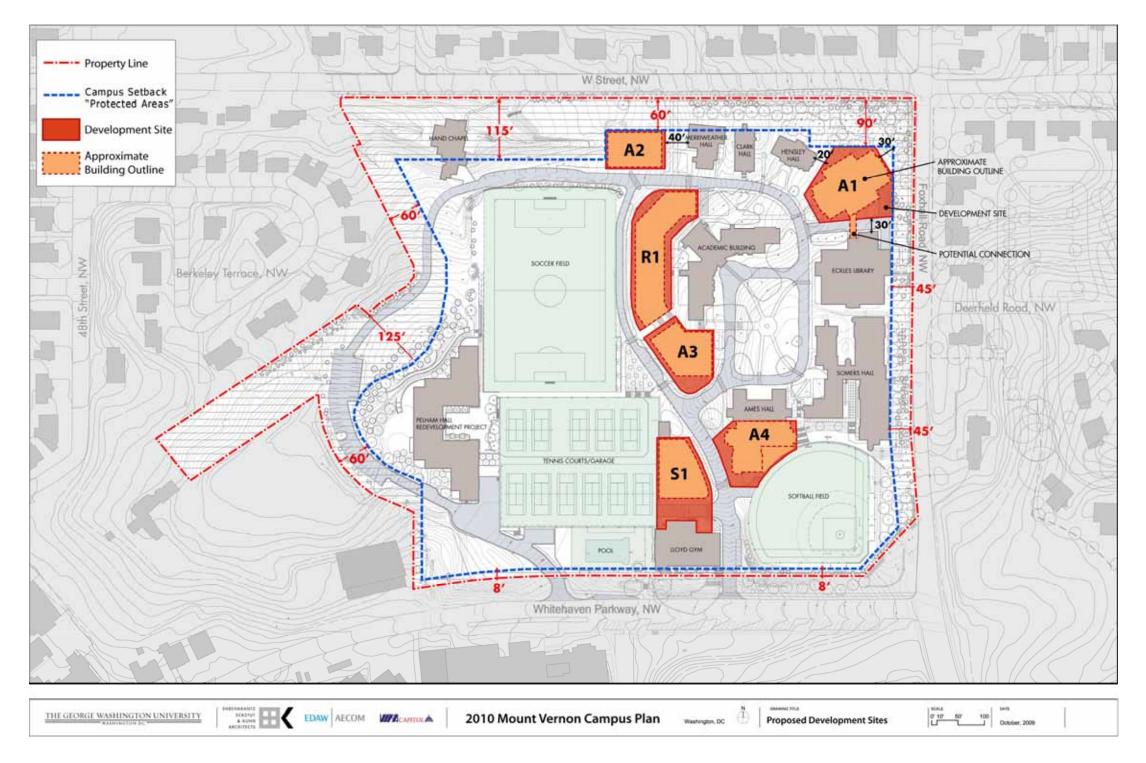
Align with new District storm water requirements

CIRCULATION & MOBILITY

- Traffic loads per university programming
- Drop offs, service, and access



2010 FACILITIES MASTER PLAN



GWU MOUNT VERNON2021 FACILITIES MASTER PLAN

SCFMP - BIG IDEAS

- AN URBAN RETREAT
- A STUDENT RECREATION + WELLNESS HUB
- CONNECTED CAMPUS LANDSCAPES



2021 FACILITIES MASTER PLAN





CAMPUS DESIGN

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

STORM WATER

• Align with new District storm water requirements

CIRCULATION & MOBILITY

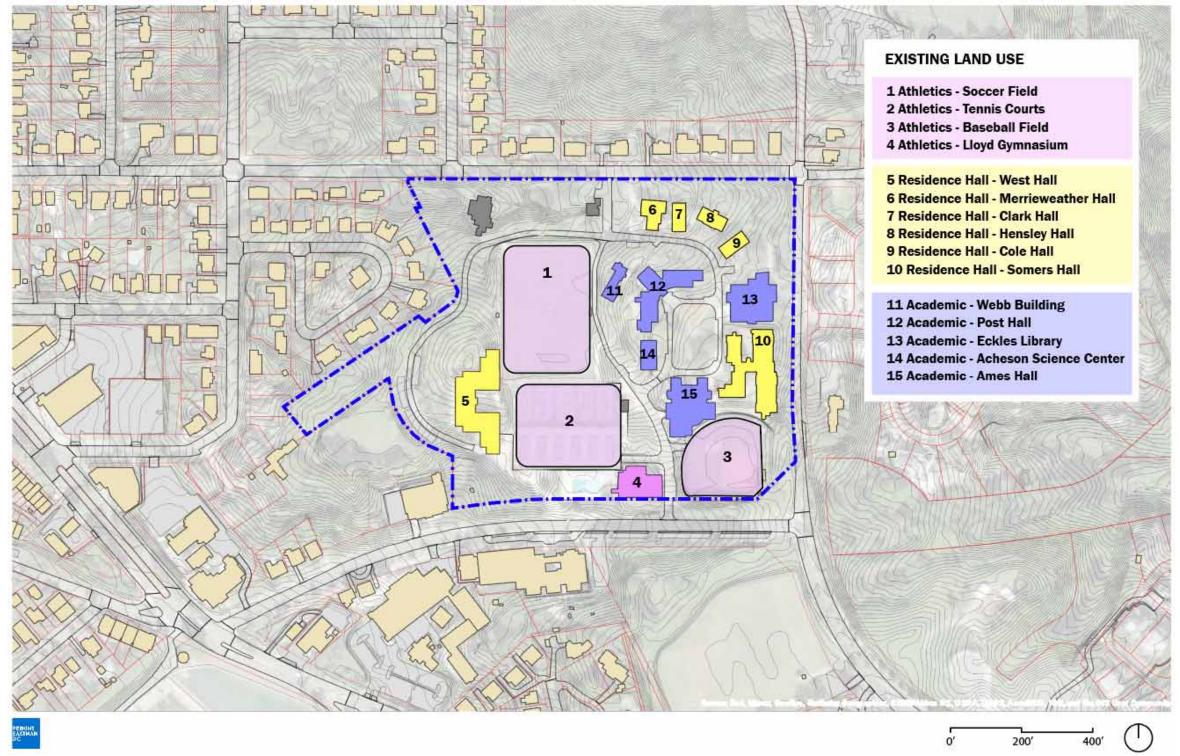
- Traffic loads per university programming
- Drop offs, service, and access

CAMPUS DESIGN

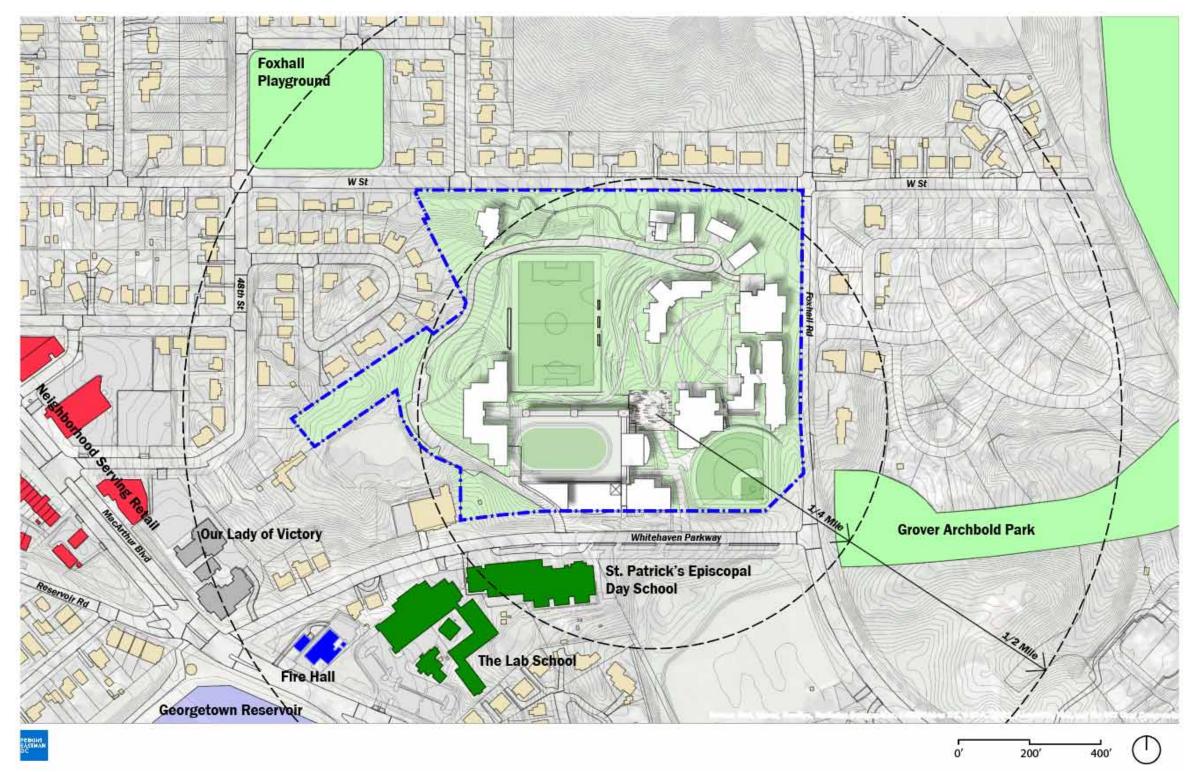


GW 11

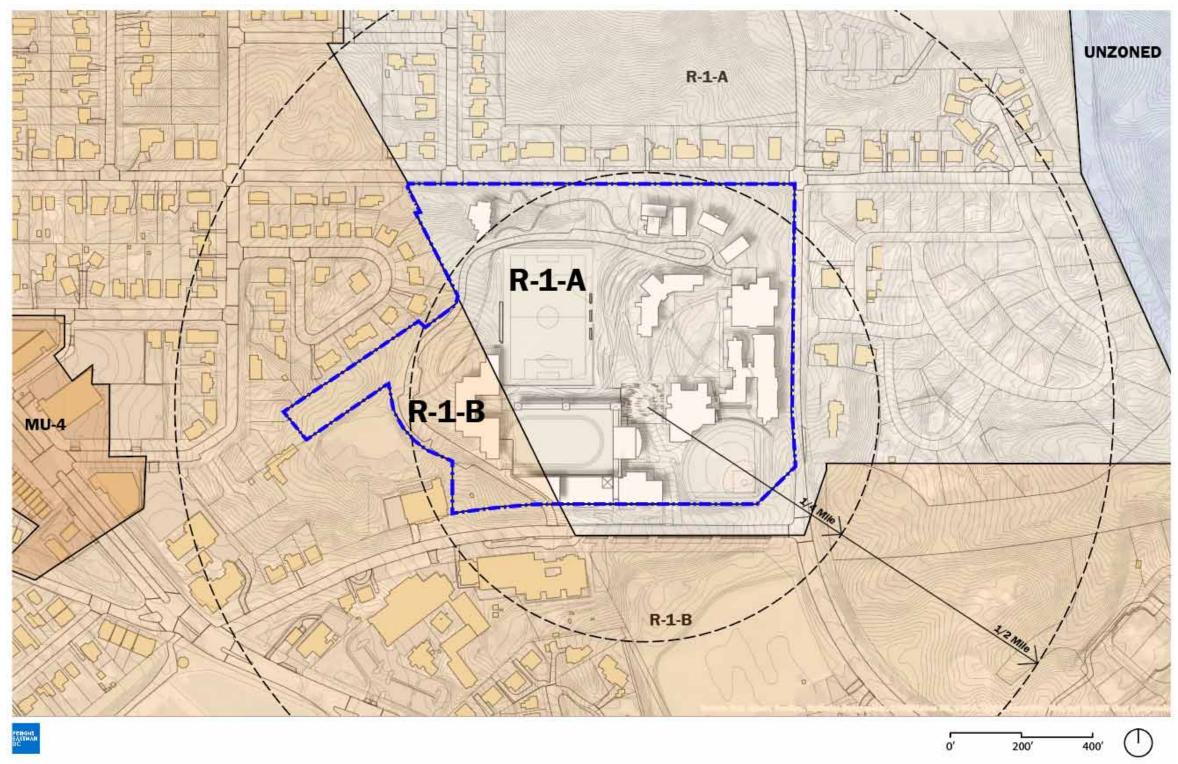
Existing Campus Uses



Neighborhood Context



Zoning





Zoning – R1 A

			_	Development Standards				
	Height (ft.) ¹ / Stories	Minimum Lot Width (ft.)/ Area (sq. ft.)	Lot Occupancy	Front Setback	Rear Yard (ft.)	Side Yard (ft.)	Pervious Surface (min.)	Zoning Regulation Reference
R-1-A	40	75	40%	A front setback shall be provided within the range of existing front setbacks of all	25	8	50%	Subtitle D, Chapter 3
	3	7,500		structures within an R-1-A zone on the same side of the street in the block where the building is proposed.				

Use Permissions	Parking	Inclusionary Zoning
Subtitle U, Chapter 2	Subtitle C, Chapter 7	Subtitle C, Chapter 10
R- Use Group A		

GW

¹ Institutional buildings or structures may be erected to a height not exceeding 90 ft., not including the penthouse, provided that the building or structure shall be removed from all lot lines of its lot a distance of not less than 1 ft. for each foot of height in excess of that authorized in the zone in which it is located.

Zoning – R1 B

			I_	Development Standards				
	Height (ft.) ¹ / Stories	Minimum Lot Width (ft.) / Area (sq. ft.)	Lot Occupancy	Front Setback	Read Yard (ft.)	Side Yard (ft.)	Pervious Surface (minimum)	Zoning Regulation Reference
R-1-B	40	50	40%	A front setback shall be provided within the range of existing front setbacks of all	25 8	8	50%	Subtitle D, Chapter 3
	3	5,000		structures within an R-1-B zone on the same side of the street in the block where the building is proposed.		0		

Use Permissions	Parking	Inclusionary Zoning
Subtitle U, Chapter 2	Subtitle C, Chapter 7	Subtitle C, Chapter 10
R- Use Group A		

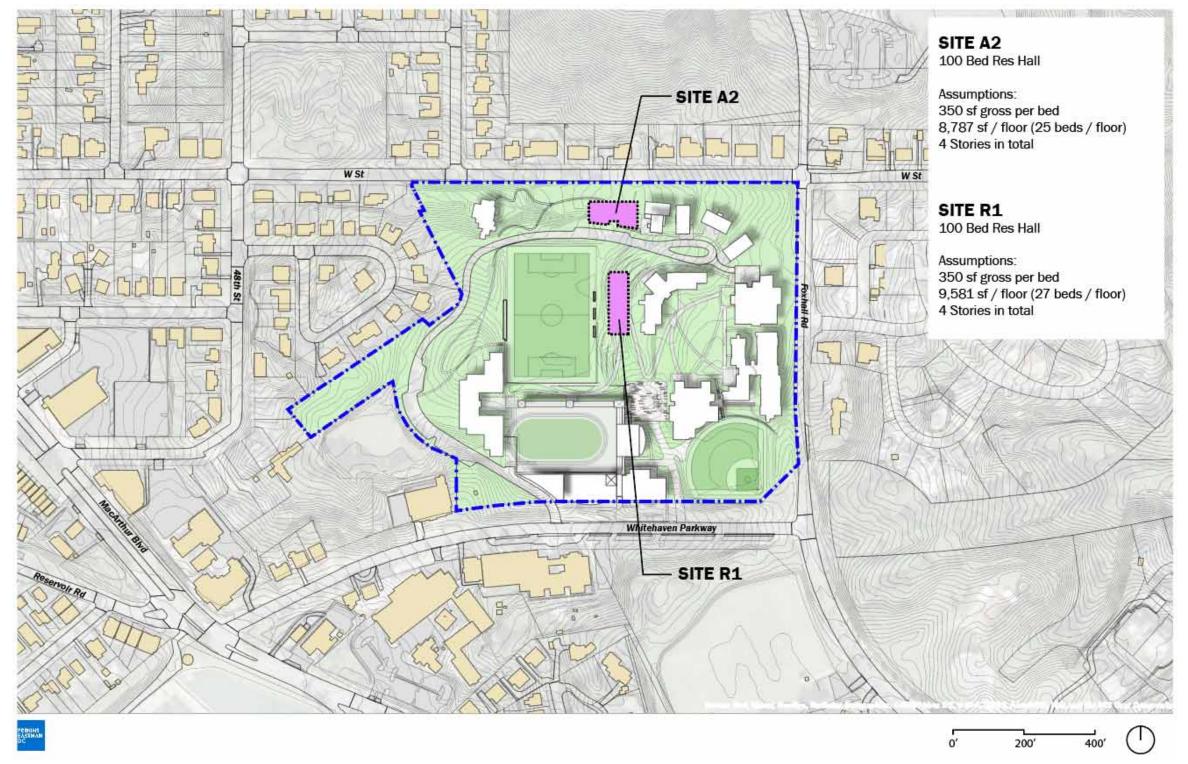
GW

¹ Institutional buildings or structures may be erected to a height not exceeding 90 ft., not including the penthouse, provided that the building or structure shall be removed from all lot lines of its lot a distance of not less than 1 ft. for each foot of height in excess of that authorized in the zone in which it is located.

2021 Facilities Master Plan showing remaining 2010 sites



Potential sites for new 100 bed residence hall



Future Needs





LIGHTING

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

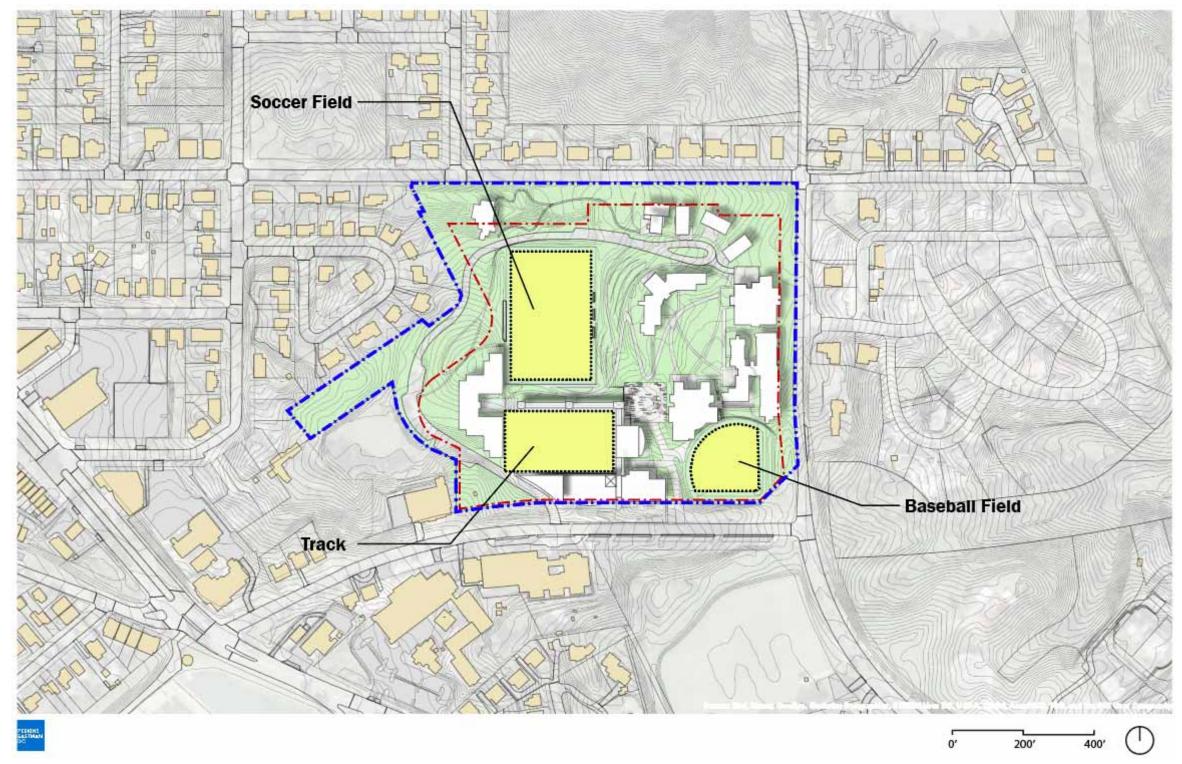
STORM WATER

• Align with new District storm water requirements

CIRCULATION & MOBILITY

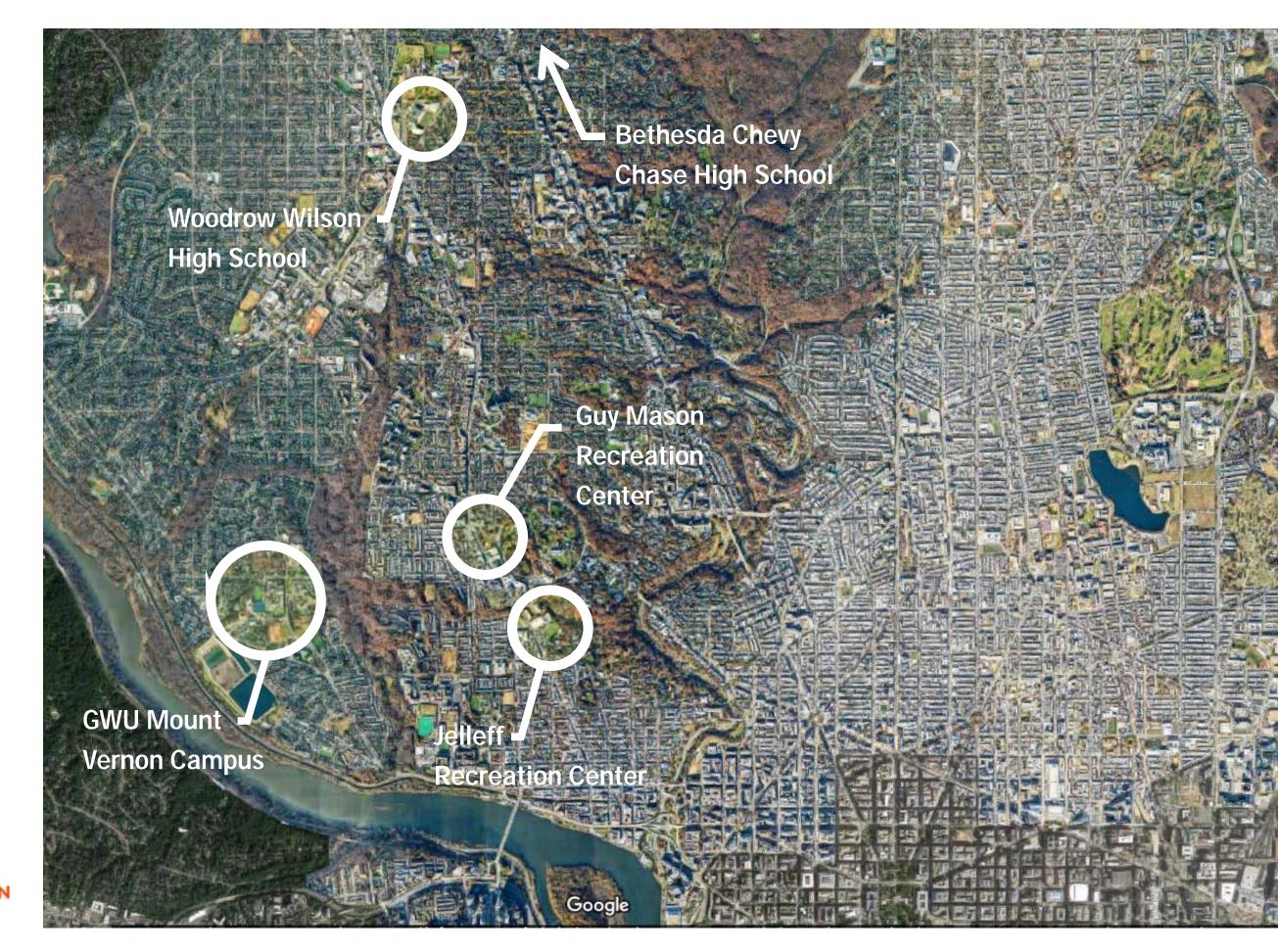
- Traffic loads per university programming
- Drop offs, service, and access

Athletics seating and lighting needs



Lighting

LOCATIONS of ATHLETIC LIGHTING EXAMPLES



Lighting

Local projects with sports lighting in residential settings



Jelleff Boys and Girls Club



Guy Mason Park



Wilson High School



BCC High School

PERKINS

SCALE OVERLAY – Wilson High School



SCALE OVERLAY – Jelleff Recreation Center



SCALE OVERLAY – Guy Mason Rec Center



Lighting

MOUNT VERNON | LIGHTING

Lighting recommendations for sports lighting

Spill Light and Glare

Any light that falls outside of the intended active area is considered spill light Higher mounting heights will allow for better angles down onto the field, less light spill Provide shields to help avoid seeing into the fixture from adjacent properties Shields should prevent light above the horizontal plane.

Vertical measurements at perimeter of property can determine extended light spill

Controls

Fixture should be on timers to provide automatic shut off after games

Light Levels as recommended by IES by classification of play

Under 5,000 spectators, high school soccer

50 FC horizontally on field, uniformity of 2.5:1

SUSTAINABILITY

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

STORM WATER

• Align with new District storm water requirements

CIRCULATION & MOBILITY

- Traffic loads per university programming
- Drop offs, service, and access

Sustainability

Since 1972, Steven Winter Associates, Inc. has been providing research, consulting, and advisory services to improve the built environment for private and public sector clients.

Our services include:

- Energy Conservation and Management
- Decarbonization
- Sustainability Consulting
- Green Building Certification
- Accessibility Consulting

We have over 100 staff across four office locations: New York, NY | Washington, DC | Norwalk, CT | Boston, MA

For more information, visit www.swinter.com



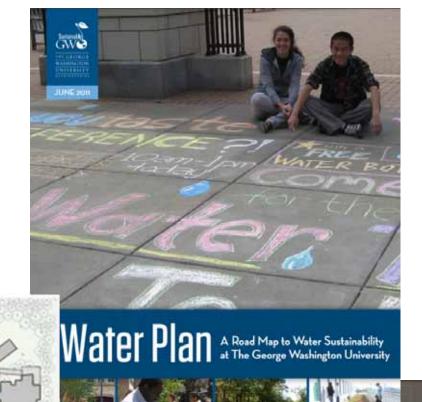


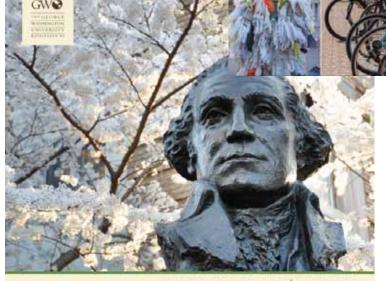


By providing a whole-building approach to design, construction and operation





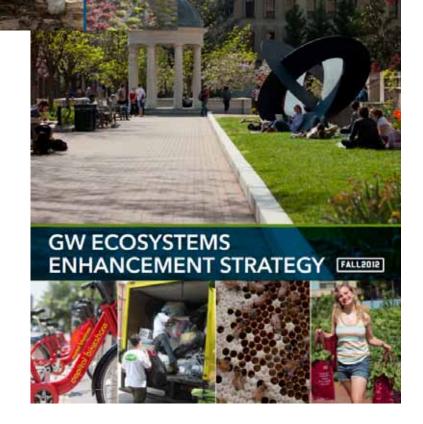




CLIMATE ACTION PLAN | MAY 2010







STORM WATER

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

STORM WATER

Align with new District storm water requirements

CIRCULATION & MOBILITY

- Traffic loads per university programming
- Drop offs, service, and access

Storm Water – Existing Conditions

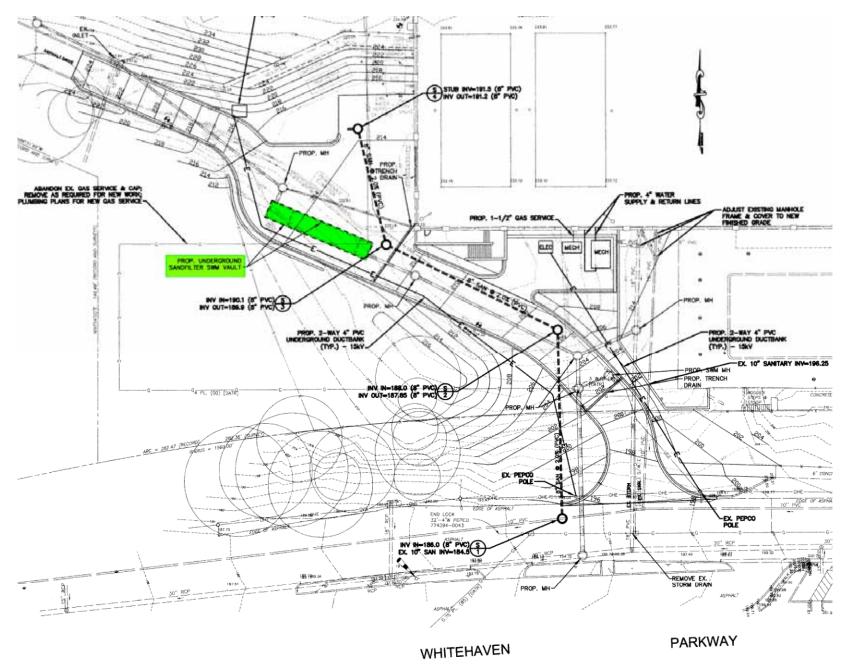


Figure 1. – Existing Three Chamber Sandfilter

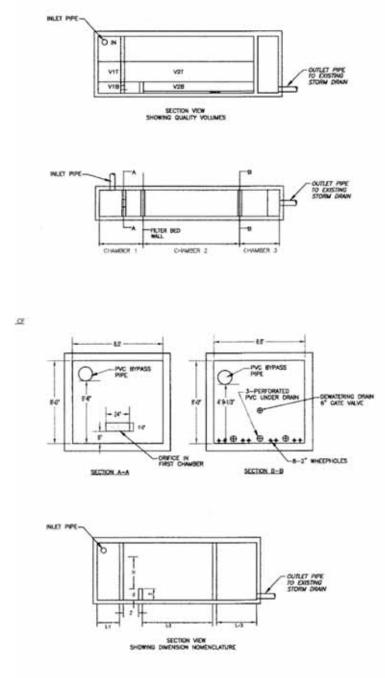


Figure 2. – Plan and Section Detail of the Existing Three Chamber
Sandfilter

Storm Water

Old DOEE SWM Regulations:

- SWM requirements is triggered if the project site disturbed more than 5,000 square feet.
- Treat the first 0.5" of rainfall runoff for Water Quality Requirements.
- Detain the storm event using the 15-year design storm frequency for Water Quality Volume requirements.

Current DOEE SWM Regulations:

There are two types of scenarios where DOEE stormwater management rules and regulations apply. Major Land Disturbing Activity (MLD)

- DOEE defines MLD as any activity that disturbs, or is part of a common plan of development that disturbs, 5,000 square feet or greater of land area, and either or both:
- Any portion of the pre-project land cover is natural; and/or 2,500 square feet or greater of the post-project land cover is impervious or BMP area.
- Retention Requirement: Site is required to retain the first 1.2" of rainfall on site
- Detention Requirement
 - 2 Year Storm: Control peak discharge to <u>pre-development</u> conditions
 - 15 Year Storm: Control peak discharge to **pre-project** conditions

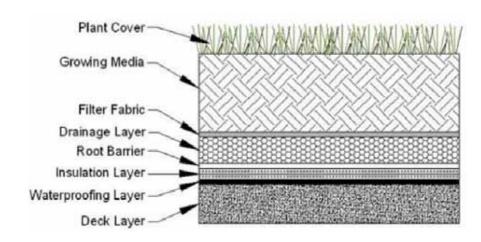
Major Substantial Improvement Activity (MSI)

- DOEE defines MSI as any activity where construction costs for building renovation/addition are greater than or equal to 50% of the preproject assessed value of the structure AND combined foot print of the structure(s) exceed the cost threshold and any land disturbance are greater than or equal to 5,000 square feet, and either or both
 - Any portion of the pre-project land cover is natural;
 - 2,500 square feet or greater of the post-project land cover is impervious or BMP area
- Retention Requirement: Site is required to retain the first 0.8" of rainfall on site
- No detention requirement required

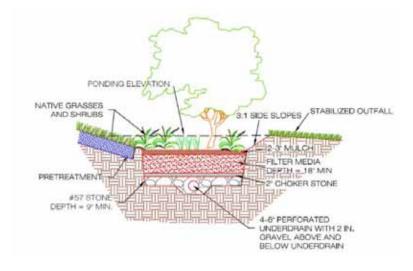
Storm Water

Best Management Practices (BMP)

GREEN ROOF



BIO RETENTION



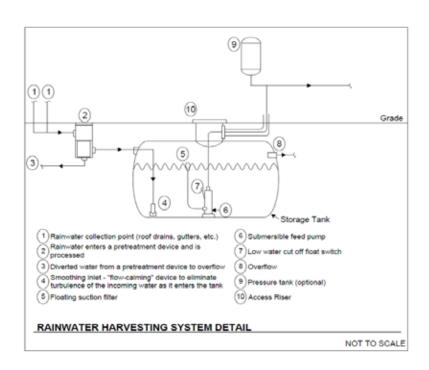




Storm Water

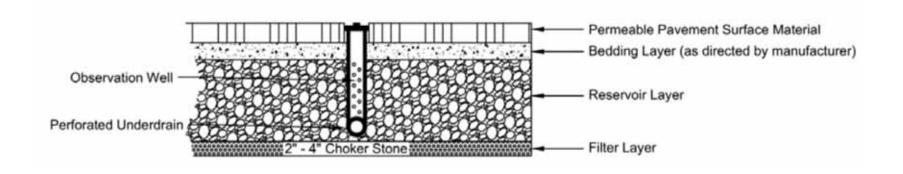
Best Management Practices (BMP)

RAINWATER HERVESTING





Permeable Paving







CIRCULATION & MOBILITY

COMMUNITY ENGAGEMENT

CAMPUS DESIGN

- Further development of 2020 masterplan
- Universal access
- Confirm future program
 - Housing
 - Academic
 - Athletics

LIGHTING

• Future athletics improvements and facilities schedule

SUSTAINABILITY

- Align with University sustainability goals
- Align with District sustainability goals

STORM WATER

• Align with new District storm water requirements

CIRCULATION & MOBILITY

- Traffic loads per university programming
- Drop offs, service, and access

Wells + Associates Transportation Consultant

- Began working with GW in 2005 with the Foggy Bottom Campus Plan
- Worked on the previous Mount Vernon Campus Plan in 2009
- Other GW Work:
 - —School without Walls
 - -2100 Pennsylvania Avenue
 - —Science and Engineering Hall
 - —School of Public Health and Health Services
 - -GW Museum
 - District House Residence Hall
- Other University work in the District:
 - —Georgetown University
 - —Trinity Washington University

PERKINS — EASTMAN

Wells + Associates Scope of Work

Summer

- Work with Planning Team to evaluate on-campus circulation
- Identify improvements to make campus more pedestrian-friendly
- Understand and quantify traffic associated with proposed program
- Scope Traffic Study with DDOT

Wells + Associates Scope of Work

Fall

- Conduct traffic counts when in-person learning returns
- Begin work on Traffic Study
 - Identify any impacts on surrounding roadway network
 - Recommend improvements to mitigate impacts
 - Study will be conducted in accordance with DDOT guidelines

Late Fall/Early Winter

- DDOT conducts thorough review of traffic study
- DDOT issues preliminary feedback on traffic study
- DDOT issues final report approximately two weeks prior to Zoning Commission Hearing

PERKINS — EASTMAN

Q & A



PERKINS — EASTMAN 40

Human by Design