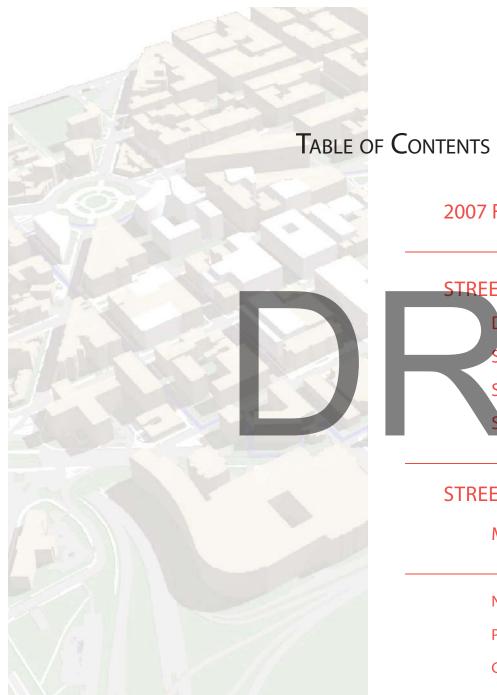
STREETSCAPE GUIDELINES

The George Washington University Foggy Bottom Campus, Washington DC

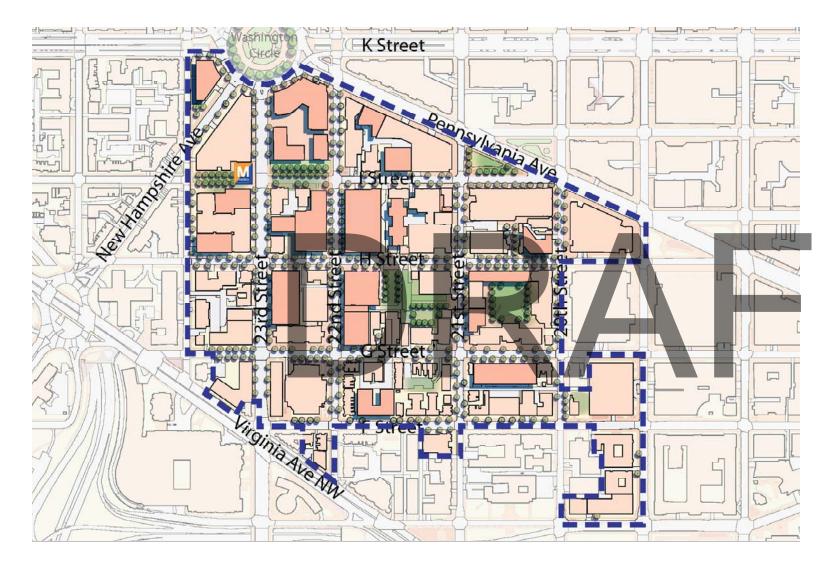






2007 FOGGY BOTTOM CAMPUS PLAN	2
STREETSCAPE PLAN DESIGN PRINCIPLES STREET HIERARCHY STREETSCAPE ZONES STREETSCAPE LAYERS	3 4 5 6 7
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PERMITTING	39
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2007 FOGGY BOTTOM CAMPUS PLAN



The 2007 Foggy Bottom Campus Plan is the guiding document for growth of the campus. The concepts of this Streetscape Plan were developed and approved (in concept) by the Zoning Commission.







THE STREETSCAPE PLAN

This Streetscape document for The George Washington University builds on the concepts approved as part of the University's 2007 Foggy Bottom Campus Plan and the Streetscape Plan of 2003.

The document references global best practices in the design of streets. Contemporary ideas on the design of streets cater to multiple modes, emphasize the need for a sense of identity for the cities, neighborhoods, campuses and places they are situated in, and promote a balance between the needs for mobility and access.

In creating a legible streetscape plan for The George Washington University, five important components were developed :

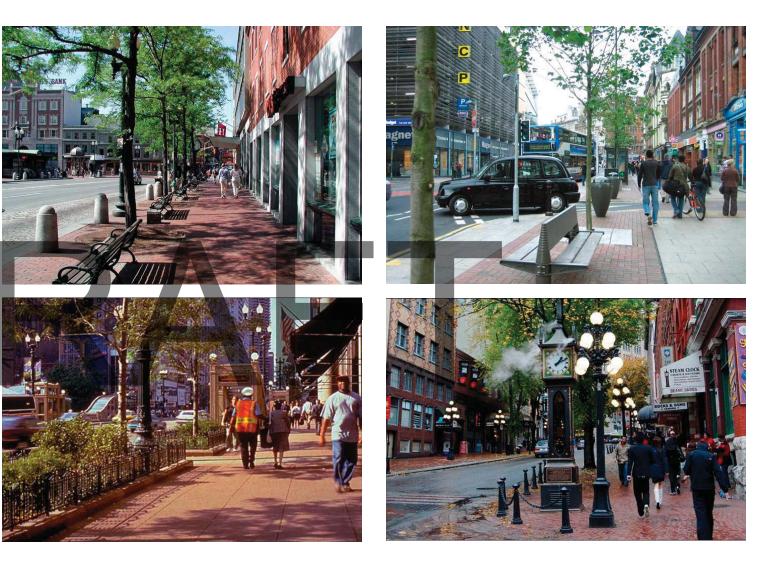
1. A set of Design Principles, that build on the University's 2007 Foggy Bottom Campus Plan and that guide the future design and re-construction of Streets within the Campus.

2. A clear distinction between East-West Street and North-South Streets.

3. Distinct zones within the Streets, that cater to the demands placed on them by various constituents.

4. Three distinct "layers" which guide the deployment of streetscape elements such that the intensity of streetscape enhancements reflect the intensity of the adjacent university uses

5. A "kit-of-parts" that the University will use as the many Streets within the Campus are built, over time. This "kit-of-parts" builds on the Streetscape Plan of 2003



and incorporates current best management practices in environmentally friendly construction techniques for streets.

THE STREETSCAPE PLAN DESIGN PRINCIPLES











Develop a vocabulary of standardized University elements to form the "kit-ofparts" for future streetscape development. Identify "special places" on campus where enhanced streetscape embellishments could occur. Promote an environment which provides ease of movement and safety for (and minimizes conflicts between) pedestrians and vehicles.

Design University way-finding, building identification & gateway signage to be clearly visible from the perspective of the pedestrian and the driver.

Maintain existing street trees where possible and provide tree boxes in the furnishing zone that facilitate healthy growth and easy maintenance.

Provide streetscape and landscape design elements that are sustainable, enhance context, and are consistent with applicable District standards.

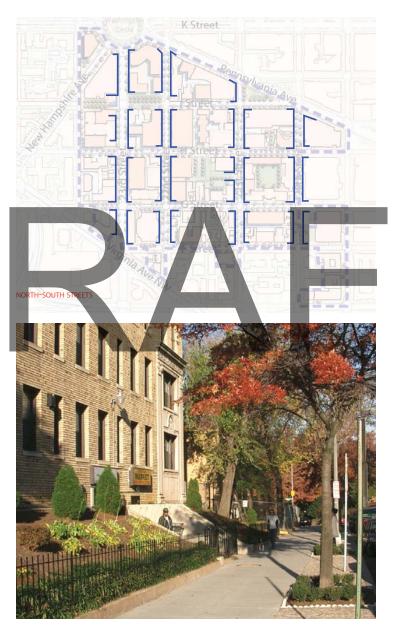
THE STREETSCAPE PLAN

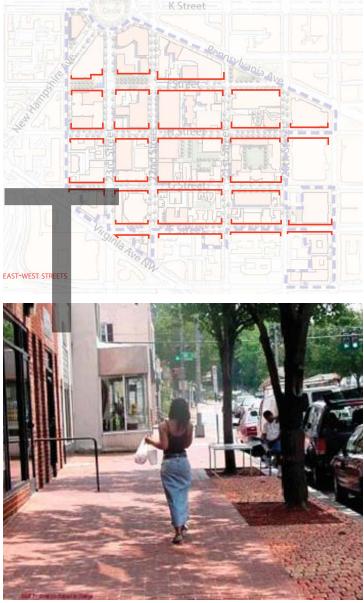
STREET HIERARCHY

The Plan recommends a clear hierarchy of streets, that addresses the University's dual role with respect to the City and neighborhood it is situated in, and its own need for a clear identity. This has been achieved by identifying two distinct types of streets: North-South Streets and East-West Streets.

The major North-South Streets that pass through the Campus link it with the Downtown areas to the north and the Federal areas to the south. These Streets are also carriers of high traffic volumes, relative to the East-West Streets. The primary recommendations, included in the Streetscape Elements Matrix, are with regard to making a distinction between the paving materials and the street lighting fixtures. The Plan recommends concrete paving and cobblestone on sidewalks for the North-South Streets.

This Plan recommends that the East-West Streets sidewalks be paved with brick and cobblestone, which provides a smaller module that responds to the higher levels of pedestrian traffic along the East-West Streets. It also recommends the Globe #16 streetlight for use along the East-west Streets.





THE STREETSCAPE PLAN STREETSCAPE ZONES

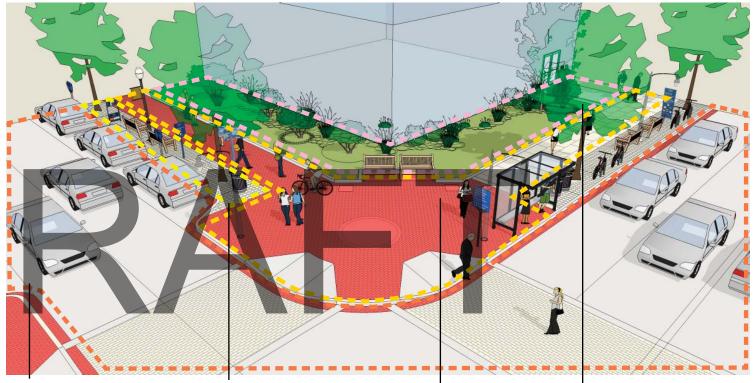
Clear zonal distinctions have been identified within the street rights-of-way, based on balancing vehicular and pedestrian mobility needs with essential elements of a legible street - such as signage, lighting, street trees and public art. The street zones include:

1. The Roadway, where vehicular, transit, bike movements and parking are accommodated.

2. The Furnishing Zone, where important streetscape elements are placed.

3. The Clear Walkway, where pedestrians are accommodated.

4. The Planting/ Setback Zone where landscape elements, important way finding elements and building identifiers are placed.



ZONE 1. ROADWAY

ZONE 2. FURNISHING ZONE

Recommended width - 5' Minimum width to satisfy ADA compliance - 4'-6"

ZONE 3. **CLEAR WALKWAY**

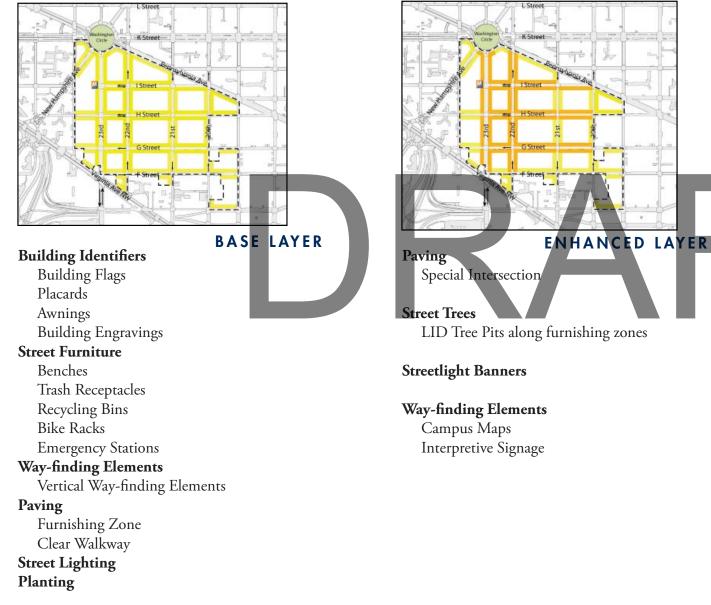
ZONE 4. SETBACK ZONE

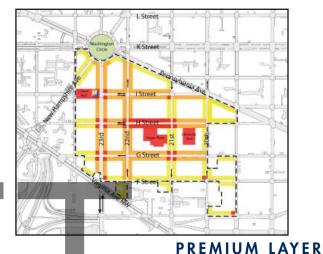
Minimum recommended width - 5'

Note: At certain locations on the campus existing conditions (particularly in areas of historic significance where retaining walls are common) do not permit a 5' width for the clear walkway. In these cases GW will use best efforts to create maximum feasible clear area.

THE STREETSCAPE PLAN

STREETSCAPE LAYERS





 PREMIUM LATE

 Distinctive Design Elements

 GWU Busts

 Integrated Public Art

 Artifacts
 Plaques

 Clocks
 Chess Tables

 Notice Boards
 Sidewalk Art

 Paving Medallions
 Paving Medallions

Planting

LID Elements integrated within major open spaces

STREETSCAPE ELEMENTS

The Streetscape Elements "Kit-of-Parts" is intended to guide future design and construction efforts. It consists of a material and fixture palette that has been evolved through a consensus-building process that involved the University, members of the Foggy Bottom community and the District Department of Transportation.

The Streetscape Elements Matrix, on the facing page, provides a summary of the palette. It is organized by street zones and streetscape layers. The Matrix is also a reference guide to the detailed technical information provided on the following pages. Using the Matrix is a 3-step process:

Step 1 - Locate the streetscape elements by Zone - Roadway, Furnishing, Clear Walkway or Planting/ Setback.

Step 2 - Refer to the Element Code column.

Step 3 - Turn to the page with the referenced element Code number. The page provides information for each streetscape element and explains the purpose, location and relevant guidelines/standards.

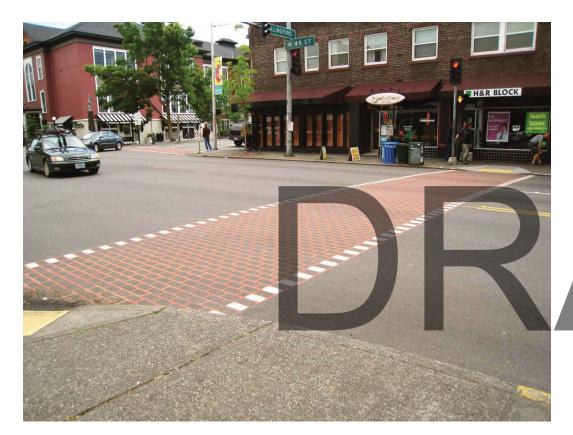
RAFT

STREETSCAPE ELEMENTS - MATRIX AND "KIT-OF-PARTS"

Streetscape Element	Element Code	Page	Base Layer	Enhanced Layer	Premium Layer
ZONE 1. ROADWAY	Liemeni Coue	Tuge	Duse Luyer		Treinioni Layer
		1	h		
Intersection	1.1	11	NA	Stamped Concrete in certain locations	Bump outs on H street
Midblock Crossing	1.2	12	NA	NA	H Street
ZONE 2. FURNISHING ZONE			1		
Paving	2.1	13	Cobblestone, 4"x4" Tumbled Concrete Paver	Same with the Base Layer	Same with the Base Layer
Bench	2.2	14	GWU Standard: Hyde Park 5' Bench, by Kingsley Bate	Same with the Base Layer	Same with the Base Layer
Streetlight		15	DC Standard: Washington Globe(#16)		
	2.3	16	DC Standard: Twin-20, locations per DC Streetlight Grand Plan (2005)		
5		17	DC Standard: Tear Drop Pendant at all intersections	Same with the Base Layer	Same with the Base Layer
		<u> </u>	Maintain Existing, NewTree Species per DC Forester List; some LID		
Tree	2.4	18	techniques may be incorporated	Same with the Base Layer	Same with the Base Layer
Tree Box	2.5	19	DC Standard: Recommended 5'x10' Minimum size, with Metal Tree Fence	Same with the Base Layer	Same with the Base Layer
Bicycle Rack	2.5	20	DC Standard: U-Shaped Bike Rack	Same with the Base Layer	Same with the Base Layer
1	2.0	20	GWU Standard: Victor-Stanley, Blue with University Signage, Green	Same with the base Layer	Same with the base Layer
Trash Can/Recycling	2.7	21		Same with the Base Layer	Same with the Base Layer
University Branding Elements	2.8	22	NA	GWU Standard: Building flag poles (varies), Streetlight Banners (18"×24")	Same with the Enhanced Layer
Way finding Signage	2.9	23	DC Standard: Pole Mounted Signage (Refer to Public Realm Design Handbook)	Same with the Base Layer	Same with the Base Layer
Campus Map	2.10	24	NA	NA	GWU Standard: Illustrated GWU Maps, (2'6'' x 7'6'')
Building Identifier	2.11	25	GWU Standard: Pole mounted Signage, with directional arrow	Same with the Base Layer	Same with the Base Layer
ZONE 3. CLEAR WALKWAY					
Paving		26	Buff-colored Concrete, 2'x2' score lines, with appropriate slope to prevent		
	3.1		ponding		
			Red Brick, laid on slab, with appropriate slope to prevent ponding	Same with the Base Layer	Same with the Base Layer
Public Art (Horizontal)	3.2	28	NA	NA	Custom sidewalk art installations at select, high-visibility locations
Sub-Soil Treatment		29	Structural Soil, 24" to 36" recommended depth		
	3.3	30	Silva Cells, with minimum 30" Sub-soil Strata	Same with the Base Layer	Same with the Base Layer
ZONE 4. PLANTING ZONE/SETB	ACK				
Tree	4.1	31	Maintain Existing	Same with the Base Laver	Same with the Base Layer
Jnderstory Planting	4.1	31	Maintain Existing	Same with the Base Layer	Same with the Base Layer
LD Opportunities	4.2	32	NA	LID Tree Pits in certain locations	LID Elements integrated with major Open Space
Building Identifier	4.3	33	NA	Maintain Existing, 2' x 7'	Same with the Enhanced Layer
Emergency Station	4.4	34	Talk A Phone WEBS-MT/R-OP411/ Code Blue CB 1-s Same with the Base Layer		Same with the Base Layer
nterpretive Signage	4.5	36	NA	GW Standard	Same with the Enhanced Layer
Public Art	4.6	30	NA	NA	
Campus Map	4.7	37	NA	NA	Customize GWU Standard: Illustrated GWU Maps, (2'6'' x 7'6'')

ZONE 1 ROADWAY

1.1 Intersection



STAMPED CONCRETE

Purpose:

Enhance pedestrian safetyTraffic calming

i nunic cuining

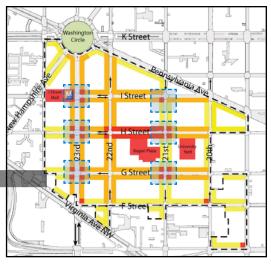
Recommended Location:

I & 21st (south crosswalk)
I & 23rd

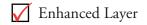


Standards/Guideline

- Per District Standard (Chap 31, Para 31.6.4, D.C. Department of Transportation - design and Engineering Manual, and the District of Columbia Public Realm Design Handbook, Pg. 31)
- Stamped concrete should be used for intersection paving; some locations could feature custom design for crossing, based on DDOT approval
- The maintenance of paving materials which are not part of DDOT standard material palette will be the responsibility of GW



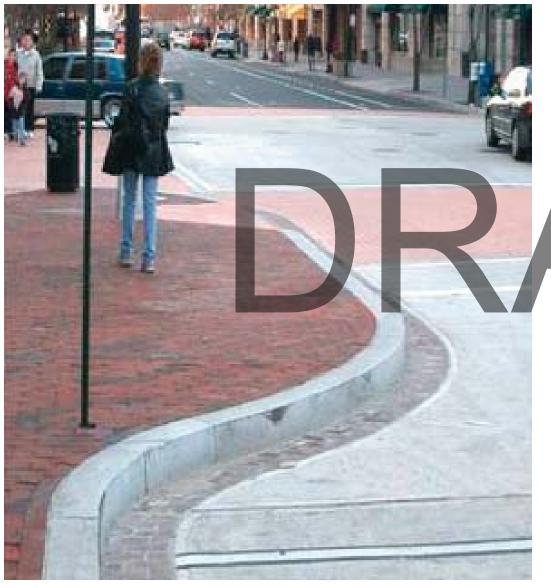
Base Layer



Premium Layer

ZONE 1 ROADWAY

1.1 Intersection



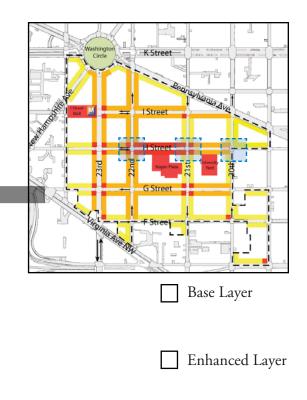
BUMP OUTS

Purpose:

Facilitate pedestrian crossing at key University locations



- H & 20th
- H & 21st H & 22nd (west side) ٠



Premium Layer

Standards/Guideline:

- Per District Guidelines, DDOT approval Width of bump-out to not exceed width of parking lane •
- Bump-outs should only be installed on streets with dedicated parking lanes •



1.2 Mid-block Crossing

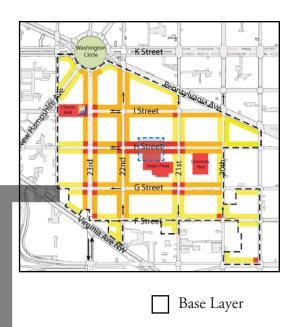


ZONE 1 ROADWAY

Purpose:

• Facilitate pedestrian crossing at key University locations





Enhanced Layer

Premium Layer

Standards/Guideline:

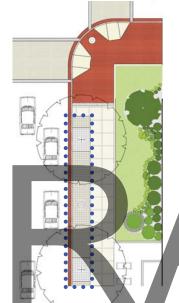
- Per City Standards
- Minimize impact on existing street parking
- "Stop for Pedestrian" signs and in-street flexible pylons on approaches to the midblock crosswalk should be installed per DDOT standards



2.1 Paving

ZONE 2 FURNISHING ZONE





COBBLE STONE

Purpose:

- Define Furnishing Zone
- Create a pervious surface that allows lo-cal catchment of storm water

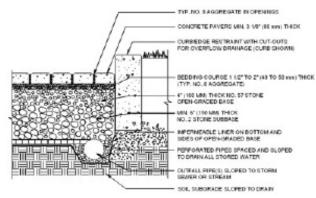
Location:

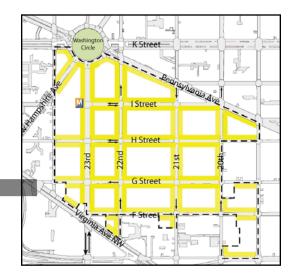
Furnishing zone along all streets

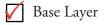
Standards/Guideline:

Pervious Joints

- Material: tumbled concrete paver Recommended Size "4x4"
- Texture: to allow ADA access
- Color: Buff color on N/S city streets, to compliment concrete sidewalks
- Coordinate with other DDOT installations . of cobble stone









Premium Layer

ZONE 2 FURNISHING ZONE

2.2 Bench



GW STANDARD: HYDE PARK 5'

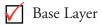
Purpose:

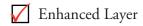
• A street amenity for the GW community



Furnishing Zone as appropriate Planting Zone as appropriate Important open spaces (Kogan Plaza, University Yard, etc.)







Premium Layer

Standards/Guideline:

- Make: Hyde Park 5'
- Manufacture: Kingsley Bate

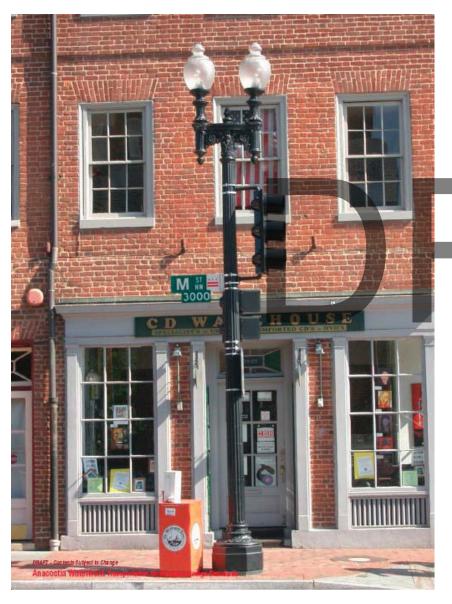
ZONE 2 FURNISHING ZONE

2.3 Streetlight





2.3 Streetlight



TWIN-20

Purpose:

• To provide quality lighting at mid-block

Location:

•

- The use of Twin-20 globes should be restricted to streets as outlined in the DC Streetlight Grand Plan adopted in March 2005, or those streets on which an exception is granted by DDOT Twin-20 globes should be installed on H Street NW and Pennsylvania Avenue NW
- Mid-block lighting, not for use at intersections

Standards/Guideline:

- Recommended 60' spacing, placed in an offset arrangement
- Streetlight poles should be black in colorRefer to DC Streetlight Grand Plan for
- Refer to DC Streetlight Grand Plan for additional information on hardware and fixtures



Base Layer



Premium Layer

2.3 Streetlight



TEAR DROP PENDANT

Purpose:

DRAFT

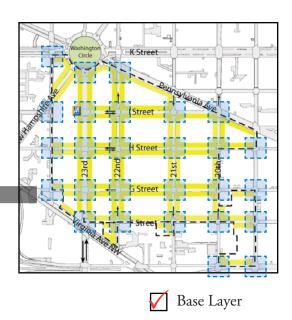
• To provide lighting at intersections for pedestrian and vehicular safety

Streetlight poles should be black in color Refer to DC Streetlight Grand Plan for additional information on hardware and



Standards/Guideline:

fixtures



Enhanced Layer

Premium Layer

The George Washington University Streetscape Guidelines

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Purpose:

- Shade
- Define street edge

Location:

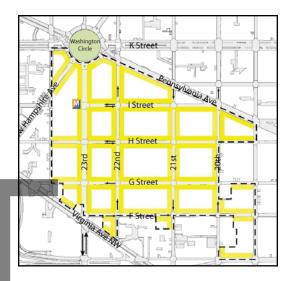
• Furnishing Zone

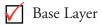
Standards/Guideline:

- Per DC Arborist / Urban Forester
- Recommended 30' spacing Recommended bi-species tree planting for new street trees
- Trees must be planted such that they do not obstruct sight lines for moving vehicles

Recommended Tree Species:

- Shumard oak (Quercus shumardii)
- Nuttall oak (Quercus nuttallii)
- Overcup oak (Quercus lyrata)
- European hornbeam, columnar form (Carpinus betulus 'Fastigiata')
- Chinese Elm (Ulmus parviflora)
- Accolade Elm (Ulmus 'Morton')
- Blackgum (Nyssa sylvatica)
- Hackberry (Celtis occidentalis)
- American sycamore (Platanus occidentalis)





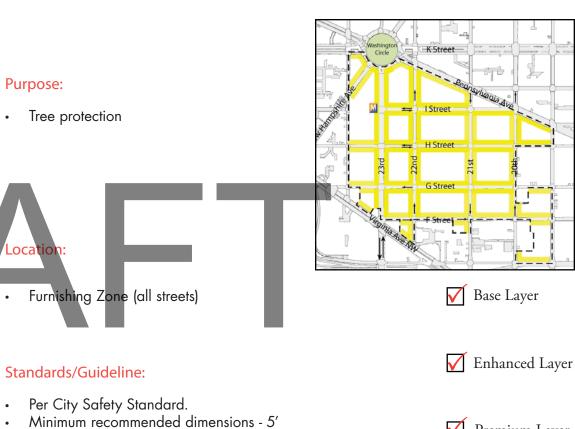


Premium Layer



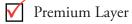






- . x 10′. • Metal fencing for tree box should be
- three-sided to allow doors of vehicles parked in the adjacent parking lanes to be opened.
- Metal fencing for tree boxes should • not have a metal base plate, in order to facilitate storm water run-off.
- LID techniques may be incorporated. •





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DRAFT

2.5 Tree Box



2.6 Inverted U Bicycle Rack

ZONE 2 FURNISHING ZONE



Purpose:

• Provide adequate facilities to encourage biking

Location:

•

•

- Furnishing Zone
- Open space
- Near building entrances
- Coordinate location of bike racks with DDOT Bicycle Program

tandards/Guideline:

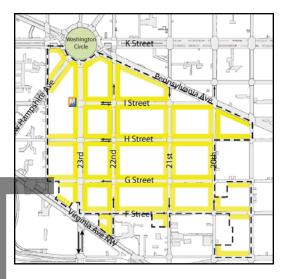
- Bike racks should be placed perpendicular to the curb line Should sidewalk width not permit perpendicular placement of bike racks they may be placed parallel to the curb Bike rack placement rules (DDOT standards)-
 - At least 5' from

 Fire hydrants
 Crosswalks

 At least 4' from
 Loading zones
 Bus stops
 Bus shelter
 Bus bench

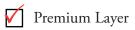
 At least 2' from curb

 At least 3' from other street furniture











2.7 Trash Can and Recycle



ZONE 2 FURNISHING ZONE

Purpose:

 Trash receptacles and recycling shall be installed along public rights-of-way. Receptacles shall be installed along highly visible and utilized locations, including but not limited to transit stops, public parks and plazas, and critical intersec-

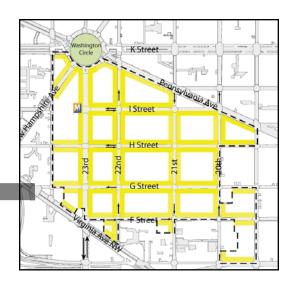


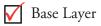
tions

- Furnishing Zone, at intersections
- Near bus stops, transit entrances, building entrances



- Victor-Stanley
- Trash cans should be placed in a manner such that sight lines for traffic on adjacent roadways are maintained.







Premium Layer



2.8 University Branding Elements



ZONE 2 FURNISHING ZONE

Purpose:

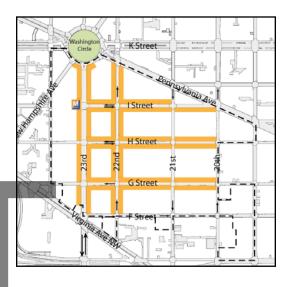
• To reinforce the University's presence in the area



Above building entrances

Standards/Guideline:

- GW Standard Building Flags. Size varies with buildings -30"W x 78"H 42"W x 125"H 42"W x 153"H 42"W x 186.5"H
- GWU Standard Streetlight Mounted Banners (18"W x 24"L)







Premium Layer



2.9 Way-finding Signage

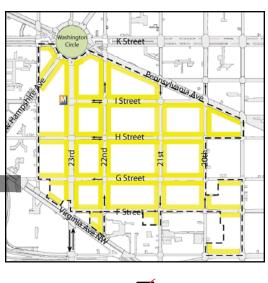


To guide the GW community, visitors and neighborhood residents to important



Standards/Guideline:

- Per City Standards for approved design of Way-finding Sign
- Reference: pg.24-25, Public Realm Design Handbook, http://www.ddot.washingtondc.gov/ddot/lib/ddot/information/publicrealm/publicrealmhandbook_2008.pdf



 $\mathbf{\nabla}$ Base Layer

Enhanced Layer

Premium Layer

2.10 Campus Map

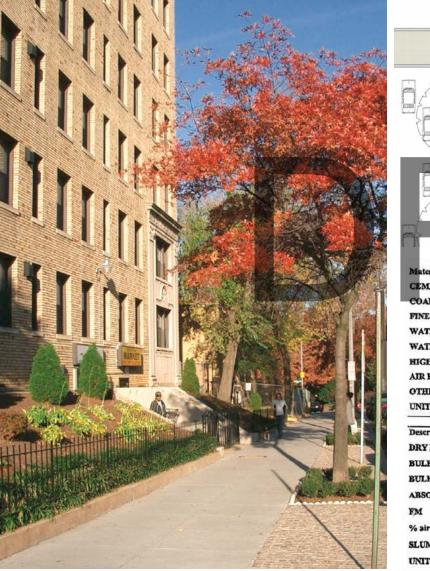


2.11 Building Identifier



ZONE 3 CLEAR WALKWAY

3.1 Paving

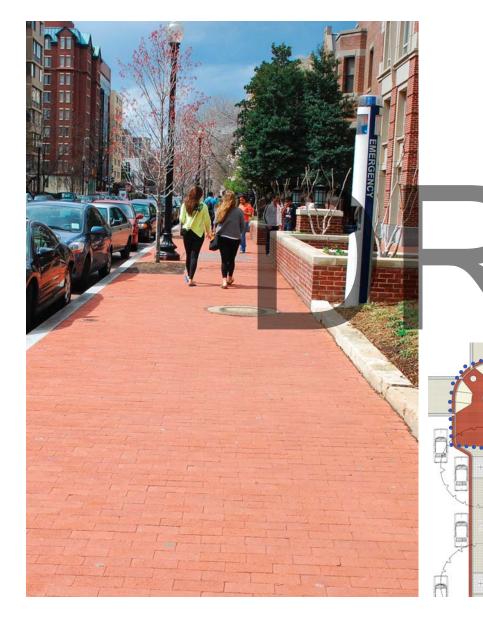


	CONCR	ETE		Washington
	Purpose: • To high campu	light city streets that c s	are within the	
	Location: • Clear v	valkway on city street	's	B B 5 F
	 2'x2' s Color t along l lumbia 	s/Guideline: core lines recommenc o closely match sidew Harvard Street NW, b Road NW and Argo photo to left)	valk installed between Co-	S Street
aterial MENT, lbs. DARSE AGGREGATE, SSD1		Source LAFARGE (Type I / II) MILLVILLE # 57	Amount Per Cubic Ya 339 1950	rd 🗹 Base Layer
NE AGGREGATE, SSD Ibs.	ibe,	SILVER HILL SAND	1165	
ATER Ibs./ gallons		CITY / WSSC	267 / 32 Max	
ATER REDUCER, oz.		SIKA (PLASTOCRETE 161)	17.0	🖌 Enhanced Layer
GH RANGE WATER REDU	CER, oz.			
R ENTRAINING AGENT, oz		SIKA (AEA-14)	- 4.0	
HER (specify)		LAFARGE (NewCem)	226	
IT WEIGHT OF PLASTIC O	CONCRETE, pcf		146.2	Premium Layer
			Portland Cement Concrete	
scription	Coarse Aggregate	Fine Aggregate	Portiand Cement Concrete	
Y RODDED. pcf	103.5	105.1		Note: Prior to any major reconstruction,
LK DRY SP. GR.	2.83	2.61		GW will consult with utility companies.
LK SSD SP. GR.	0.6	0.9		Conversely, any work that utility
SORPTION, %	0.0	2.87		companies are doing on the GW campus should be coordinated with
		4.07	6	respect to paving materials since GW
air Mar N			3" MAX	standard for concrete score lines is 2'x2'
UMP, IN.	CONCRETE		146.2	while DC standard for concrete score
IT WEIGHT OF PLASTIC (CUNCKETE, per		170.2	lines is 3'x3'.

August 2010

ZONE 3 CLEAR WALKWAY





BRICK

Purpose:

Use on East-West Streets to better define the campus

Location:

Clear Walkway on East-West Streets

Standards/Guideline:

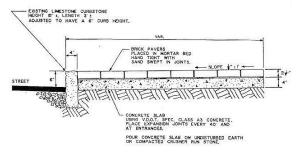
- Brick pavers to be laid on concrete slab, with adequate slope to ensure proper drainage to avoid heaving from tree roots and for pedestrian safety
- Refer to Downtown Streetscape Regulations, August 2000
- The color shall be red as specified in the standard specifications;
- The pattern shall be as specified in the standard specifications;
- The joints (butt joints) shall be a maximum of one-eighth inch (1/8") and shall be swept with a dry sand cement mix of two (2) to one (1) by volume;
- Each paver shall have a non-slip finish







V Premium Layer



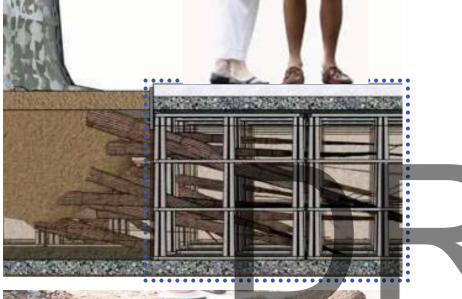
ZONE 3 CLEAR WALKWAY

3.2 Public Art (Horizontal)



ZONE 3 CLEAR WALKWAY

3.3 Sub-Soil Treatment

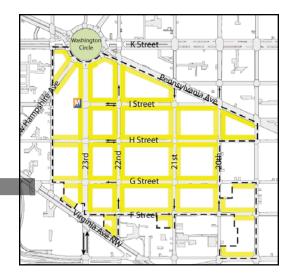


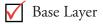


OPTION 1: SILVA CELLS

Purpose:

To substantially increase the volume of soil available for tree roots by allowing expansion underneath the clear walkway, without causing the paving to heave
Where sub-soil treatment is proposed and appropriate two options may be considered - Silva Cells or structural soil. Other root zone treatment techniques may be considered based on current best practices





Enhanced Layer

Premium Layer

Location:

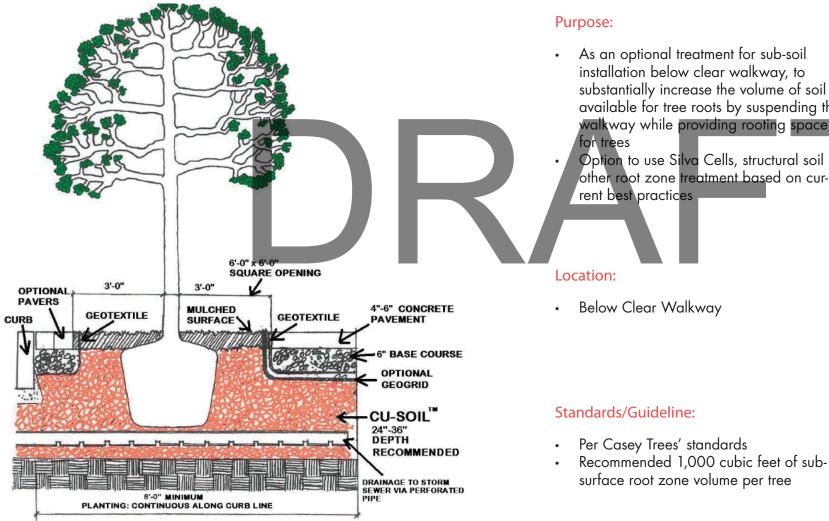
• Below clear walkway zone

Standards/Guideline:

- Per Casey Trees' standards
- Recommended 1,000 cubic feet of subsurface root zone volume per tree

ZONE 3 CLEAR WALKWAY

3.3 Sub-Soil Treatment

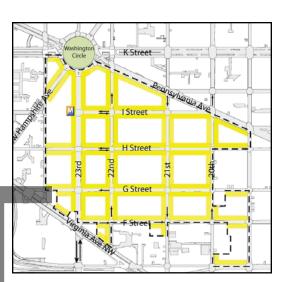


OPTION 2: STRUCTURAL SOIL

Purpose:

DRAFT

- As an optional treatment for sub-soil installation below clear walkway, to substantially increase the volume of soil available for tree roots by suspending the walkway while providing rooting space for trees
 - Option to use Silva Cells, structural soil or other root zone treatment based on current best practices



Base Layer

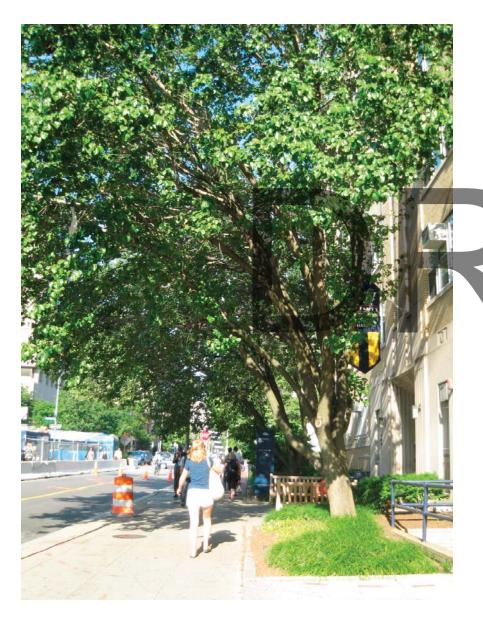
Enhanced Layer

Premium Layer

August 2010

ZONE 4 PLANTING ZONE/SETBACK

4.1 Tree



Purpose:

- Shade
- Define street edge

Location:

____Planting/Setback Zone

Standards/Guideline:

- Per DC Urban Forester, coordinate with Casey Trees
- Recommended 30' Spacing
- Recommended bi-species tree planting for new street trees
- Coordinate with Casey Trees

Recommended Tree Species include -

- Shumard oak (Quercus shumardii)
- Nuttall oak (Quercus nuttallii)
- Overcup oak (Quercus lyrata)
- European hornbeam, columnar form (Carpinus betulus 'Fastigiata')
- Chinese Elm (Ulmus parviflora)
- Accolade Elm (Ulmus 'Morton')
- Blackgum (Nyssa sylvatica)
- Hackberry (Celtis occidentalis)
- American sycamore (Platanus occidentalis)



Base Layer

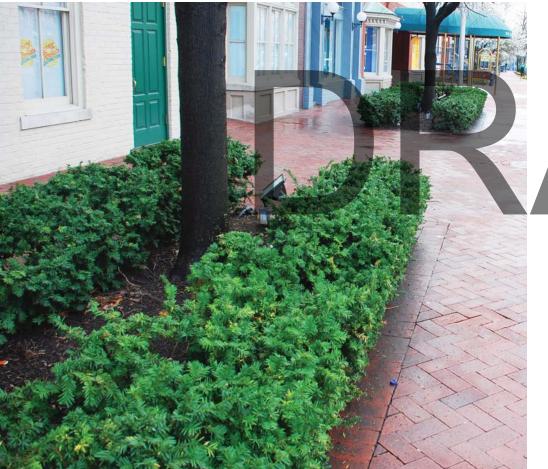
Enhanced Layer

Premium Layer



ZONE 4 PLANTING ZONE/SETBACK

4.2 Understory Planting

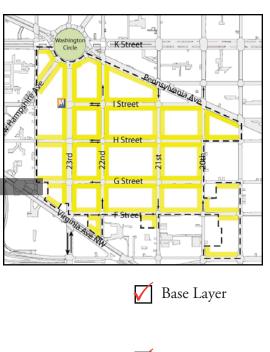


Purpose:

•

- To discourage pedestrians from walking in tree pits
- Improve the appearance of the Planting/ Setback zone





Enhanced Layer

Premium Layer

Standards/Guideline:

Per GW Standards

•

ZONE 4 PLANTING ZONE/SETBACK

4.3 LID Opportunities



ZONE 4 PLANTING ZONE/SETBACK

4.4 Building Identifier



Purpose:

ocation

•

•

Standards/Guideline:

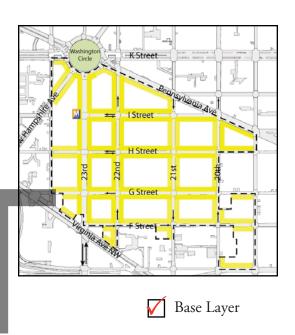
To identify prominent building entrances

Planting Zone/Setback Zone

Per GW standards (typical building identifier size – 2'W x by 7'H)

Adequate care should be taken to ensure that building identifiers are not installed

within intersection sight lines.



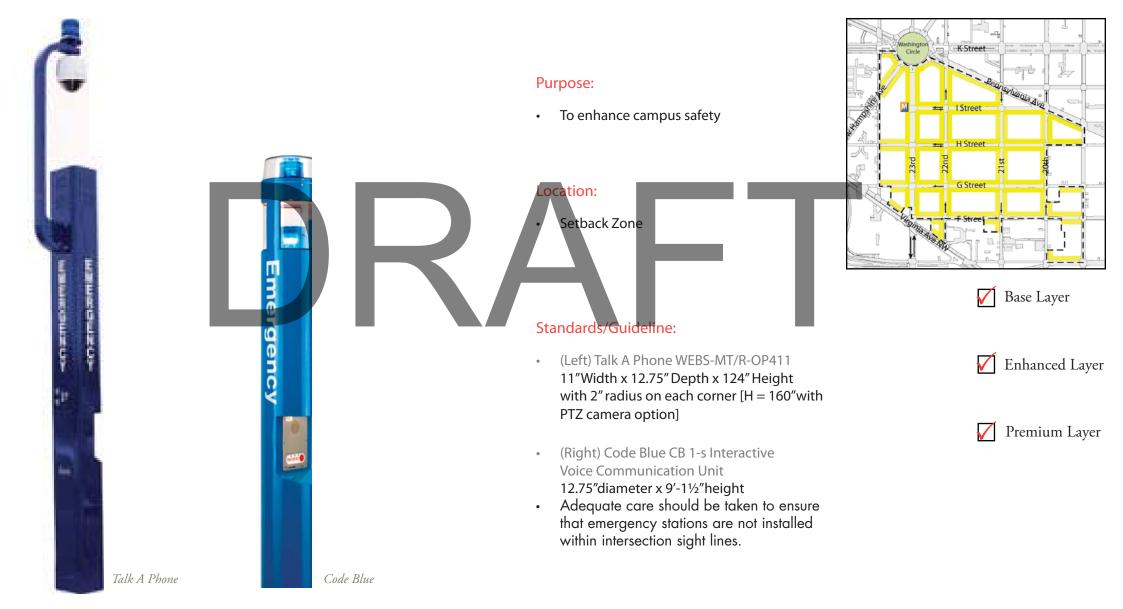
Enhanced Layer

Premium Layer

Ehrenkrantz Eckstut & Kuhn Architects

ZONE 4 PLANTING ZONE/SETBACK

4.5 Emergency Station



ZONE 4 PLANTING ZONE/SETBACK

4.6 Interpretive Signage

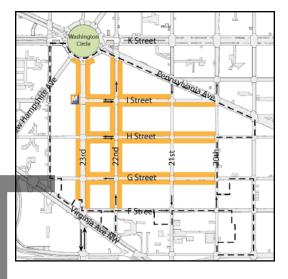


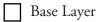
Purpose:

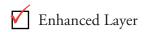
• To reinforce University presence & as custom designed public art



Prominent open spaces: University Yard, Kogan Plaza, I Street Mall Other locations within the campus, in the Planting Zone







Premium Layer

Standards/Guideline:

• Custom designed, Per GW Standards

4.7 Public Art

ZONE 4 PLANTING ZONE/SETBACK

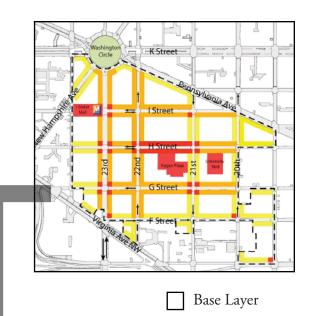


Purpose:

To establish University presence & provide opportunity for public art

ocation: Key Intersection along H Street

- T Street Mall University Yard ٠
- Kogan Pĺaza





Premium Layer

- Standards/Guideline:
- Custom designed ٠
- Adequate care should be taken to ensure that new installations are not within intersection sight lines.

IMPLEMENTATION SCHEDULE

The University has developed the following block by block streetscape implementation plan that provides for appropriate streetscape improvements to be made to all "enhanced" streetfronts to meet the standards set forth in the proposed Streetscape Plan.

SQUARE 39

No specific streetscape improvements to Square 39 beyond existing conditions are contemplated under the proposed Streetscape Plan, however appropriate streetscape improvements will be made in connection with the redevelopment of site 39A.

SQUARE 40

Enhancements to existing streetscape conditions will be made to the west side of 23rd Street between I Street and Washington Circle in connection with the completion of the proposed Square 54 redevelopment (which is the subject of a separate consolidated PUD application).

SQUARE 41

Streetscape improvements consistent with the proposed Streetscape Plan

will be made to the west side of 23rd Street between I and H Streets by the completion of A-2 the development associated with sites 41A and 41B. Specific implementation timing and sequencing will depend on construction logistics and staging requirements associated with the planned development projects.

SQUARE 42

No specific streetscape improvements to Square 39 beyond existing conditions are contemplated under the proposed Streetscape Plan, however appropriate streetscape improvements will be made in connection with the redevelopment of site 39A.

SQUARE 43 Streetscape improvements on Square 43 are already consistent with the proposed Streetscape Plan.

SQUARE 54

Extensive streetscape and public space improvements have been proposed as part of the plan for the redevelopment of Square 54 (which is the subject of a separate consolidated PUD application).

SQUARE 55

Streetscape improvements consistent with the proposed Streetscape Plan will be made to all streetfronts included in Square 55 by the completion of the development associated with sites 55A1 and 55A2. Specific implementation timing and sequencing will depend on construction logistics and staging requirements associated with the planned development projects.

SQUARE 56

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the east side of 23rd Street between G and H Streets, the south side of H Street between 22nd and 23rd Streets, and the portion of the west side of 22nd Street between G and H Streets that does not currently meet the standards set forth in the Streetscape Plan in connection with the development of site 56A.

SQUARE 57

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the south side of G Street between 23rd and 22nd and on the west side of 22nd Street between F and G Streets by the end of the term of the proposed Foggy Bottom Campus Plan: 2006 – 2025.

SQUARE 75

Enhancements to existing streetscape conditions will be made to the east side of 22nd Street between I Street and Pennsylvania Avenue in connection with the completion of the proposed Square 54 redevelopment (which is the subject of a separate consolidated PUD application). Streetscape improvements consistent with the proposed Streetscape Plan will be made to the north side of I Street between 22nd and 21st Streets in connection with the development of site 75B.

SQUARE 77

Streetscape improvements consistent with the proposed Streetscape Plan will be made to all streetfronts included in Square 77 by the completion of the development associated with sites 77A, 77B, and 77C. Specific implementation timing and sequencing will depend on construction logistics and staging requirements associated with the planned development projects.

SQUARE 79

Streetscape improvements consistent with the proposed Streetscape Plan will be made to all streetfronts included in Square 79 by the completion of the development associated with sites 79A1, 79A2, and 79A3. Specific implementation timing and sequencing will depend on construction logistics and staging requirements associated with the planned development projects.

SQUARE 80

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the south side of G Street between 22nd and 21st Streets and to the North side of F Street between 22nd and 21st Streets in connection with the recently approved DCPS/GW School Without Walls joint PUD application. Streetscape improvements consistent with the proposed Streetscape Plan will be made to the east side of 22nd Street between G and F Streets by the end of the term of the proposed Foggy Bottom Campus Plan: 2006 – 2025.

SQUARE 101

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the north side of H Street between 21st and 20th Streets in connection with the development of site 101A.

SQUARE 102

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the south side of H Street between 21st and 20th Streets in connection with the development of site 102A, and to the north side of G Street between 21st and 20th Streets by the end of the term of the proposed Foggy Bottom Campus Plan: 2006 – 2025.

SQUARE 103

Streetscape improvements consistent with the proposed Streetscape Plan will be made to the south side of G Street between 21st and 20th Streets in connection with the development of site 103A.

NOTES

1. To the extent possible all sidewalks along new construction on GW parcels should be at least 10' wide (including furnishing zone and clear walkway).

2. Sight triangles must be maintained - any fixture or street furniture placed within sight triangles should not exceed 42" in height.

3. Prior to any major reconstruction, GW will consult with utility companies. Conversely, any work that utility companies are doing on the GW campus should be coordinated with respect to paving materials since GW standard for concrete score lines is 2'x2' while DC standard for concrete score lines in 3'x3'.

4. The maintenance of paving materials and nonstandard fixtures which are not part of the DDOT standard material palette will be the responsibility of GW. GW is to issue a Maintenance Agreement for these materials and installations. 5. Pepco vaults must have a solid cover, if possible, when located in the clear walkway, Furnishing Zone or setback zones. Pepco vaults located in the Planting Zone should be concealed with landscape elements.

6. Alleys are the preferred location for loading/ unloading of delivery trucks.

7. Curb cuts should be minimized; where necessary curb cuts should be treated in accordance with DDOT requirements and in coordination with DDOT.

8. Since the Streetscape Plan will be implemented over many years, it is likely that there will be enhancements to standards for materials and furnishings. As necessary, GW will consult with DDOT when standards are being enhanced.

9. Locations for catch-basins and fire hydrants should be per DDOT standards.

10. Light pylons and building entry markers should not be located within clear walkway zones.

11. Retaining walls and fencing in the Planting Zone will be below 42" high unless otherwise approved by DDOT.



PERMITTING

1. The George Washington University and the District Department of Transportation to enter into contract agreement for maintenance, repairs and other routine work in public space.

2. Large scale implementations or renovations associated with The George Washington University development sites to be submitted as part of individual project PDRM.

GLOSSARY OF TERMS

Building Identifier – A sign, usually mounted on the floor or the external wall of a building that provides information by which pedestrians or motorists may identify a building.

Campus Plan – A Plan for the growth of an educational, corporate or other campus. A Campus Plan is usually documented in report format, with graphic and narrative content. This document refers specifically to the 2007 Foggy Bottom Campus Plan authored by The George Washington University.

Clear Walkway – A distinct part of a sidewalk which must be left unencumbered for pedestrian passage. In Washington DC the recommended width for a clear walkway is 5'.

Design Principle – A summary description of a design idea that is specific to a location and that describes the intended manner of treatment of that location in subsequent efforts. Furnishing Zone – A linear zone located on a sidewalk, usually along the curb, where street furniture such as benches, trash cans, streetlights, street trees may be located. The width of a Furnishing Zone is usually between 4' to 6'.

Roadway – The part of a street located between curb edges where cars, buses, bikes may ply. The roadway typically includes space for cars to park. The roadway is separated from the sidewalk by means of a raised curb (typically 6" in Washington DC) and may be paved with asphalt or concrete.

Setback Zone –Typically located along the edge of a building, the planting/setback zone is an area that separates a building from an adjoining sidewalk. This Zone may be treated with landscape elements or in a manner consistent with the adjoining sidewalk. Setback Zones may be owned privately or by a city government. Street – A public thoroughfare, usually paved, in a village, town, or city, including the sidewalk or sidewalks.

Street Hierarchy – A system to categorize streets; categories are usually determined by street width, volumes of vehicular, bike or pedestrian traffic, historic prominence, civic use and scenic value.

Streetlight Banner – A graphic sign (made of cloth, plastic or other flexible materials) mounted on a streetlight using special fasteners. Banners are typically used to create a sense of distinct identity for a city district, neighborhood or campus.

Streetscape Elements "Kit-of-Parts" – An exhaustive description of materials and fixtures that may be used to upgrade or reconstruct a street. The "Kit-of-Parts" offers parameters for the selection and deployment of materials/fixtures. Streetscape Matrix – A Streetscape Matrix is a table that offers a summary of the Streetscape Elements "Kitof-Parts." This document uses a Streetscape Matrix as a snapshot and as a reference tool by which a reader may locate specific materials/fixtures that are part of the Streetscape Elements "Kit-of-Parts."

Street Furniture – Publicly provided furniture located on a street, typically in a furnishing zone on a sidewalk. Examples include benches, streetlights and trash cans. Streetscape Layers – A system that categorizes streets by intensity of improvements. For example, the Base Layer in this document establishes minimal changes and requirements for all streets, such that they are safe for use. The Premium Layer is used to designate certain streets for higher levels of investment due either to exaggerated safety concerns or the need to earmark a street that is frequented more often by members of the surrounding community for the purposes of gathering or recreation.

Streetscape Plan – A Plan for the upgradation or reconstruction of one or more streets within a campus, neighborhood or district; typically a Streetscape Plan specifies goals/strategies, re-allocation of the street zones if necessary, materials and dimensional standards to be used in the execution of the Plan. Way-finding Sign – A sign installed within public space (a street, plaza, courtyard or garden) to guide pedestrians, motorists or bicyclists to prominent destinations within a district, neighborhood or campus.

Zoning Commission - The Zoning Commission (ZC) is an independent, quasijudicial body. Created by the Zoning Act of 1920, as amended, the ZC is charged with preparing, adopting, and subsequently amending the Zoning Regulations and Zoning Map in a means not inconsistent with the Comprehensive Plan for the National Capital area. Three members of the ZC are residents of the District of Columbia appointed by the Mayor and confirmed by the Council. The fourth member of the ZC is the Architect of the Capitol (or his/her representative). The fifth ZC member is the Director of the National Park Service (or his/her representative).



