



Photos of Paint Branch Stream

4.2.3 Vegetation

A variety of pine and hardwood forested areas, wooded stream valleys, and grassy meadow areas define areas around the campus.

Urban or Built-up Land

FDA's Headquarters is comprised of area of intensive use with much of the land covered by structure and parking lots. Urban land within the FDA Headquarters includes green buffer zones, the FDA development, roads, and parking lots. Landscaped areas comprise most of the vegetation within the urban and developed land of the FDA Headquarters.

Deciduous Forest Land

All forested areas have a predominance of trees that lose their leaves at the end of the frost-free season or at the beginning of the dry season. There are approximately 26.8 acres of forest within the study area and delineated into seven forest stands. Forests within the study area are defined as mid-successional. A mid-successional forest is a transitional stage between a young and mature forest.

A Forest Conservation Plan will be developed in compliance with Montgomery County's Forest Conservation Law and the MD State Forest Conservation Act. The plan will outline compensatory mitigation, if needed to offset the loss of forest and vegetation.

4.2.4 Wildlife

The large wooded land areas and aquatic features on the FRC support numerous wildlife species. The Paint Branch bisects the FRC. The Paint Branch and its tributaries are home to aquatic wildlife. Numerous animal species, amphibians, avian and aquatic species are potentially in the FRC. There are no known protected species, federally listed threatened or endangered species.

1 Minimization of impacts to wildlife will be obtained
2 by maintaining areas of forest that provide habitat
3 and movement corridors for wildlife. Signage for
4 deer crossing would be placed along the roadway
5 through the FRC to mitigate for the risk of deer
6 being struck by vehicles. Time-of-year restrictions
7 of construction activities may be used to protect
8 species most sensitive to human activities.
9 Compliance with the approved erosion and sediment
10 control plan would minimize impacts to aquatic biota
11 by controlling sedimentation.

4.3 Public Realm and Viewsheds

4.3.1 Addition & Removal of Trees

Tree Protection

12 Trees are a valuable resource in the National
13 Capital region. They reduce temperatures, reduce
14 air pollution, mitigate climate change by storing
15 carbon, and improve soil and water quality through
16 retention of stormwater and controlling erosion.
17 An essential strategy of the Master Plan was to
18 avoid existing mature forests and consequently,
19 the removal of large stands of trees. The Preferred
20 Development Alternative successfully limits most of
21 the disturbance to areas that have been previously
22 disturbed and avoids tree removal as much as
23 possible. In areas where trees need to be removed,
24 proper measures such as root spading and tree
25 protection fencing should be taken to protect
26 mature trees adjacent to the limits of work.

Tree Replacement Requirements

27 In alignment with the Comprehensive Plan for the
28 National Capital, when tree removal is unavoidable,
29 trees should be replaced to prevent a net loss of
30 trees to the project area, according to the following
31 process:

- 43 • An evaluation of potential tree loss should be
44 made prior to any tree removal
- 45 • Trees 10 inches in diameter or less should be
46 replaced on a one to one basis
- 47 • Trees larger than 10 inches in diameter should be
48 surveyed by a professional arborist to establish
49 the replacement ratio in alignment to the ISA
50 (International Society of Arboriculture)
- 51 • Replacements should be located within the
52 property

53 In impacted areas that are very densely forested, it
54 may prove impossible to professionally survey and
55 evaluate each individual tree. As an alternative,
56 the local jurisdiction of Montgomery County has
57 a tree replacement program that calculates tree
58 replacements based on tree canopy cover. In
59 accordance with the Forest Conservation Law,
60 analysis of the tree canopy and the replacement
61 rate per acre should be met. After review of this
62 law, assumptions were made for planning purposes
63 to propose two acres planted for every one acre of
64 trees removed. This ratio should be reevaluated
65 during design development and a representative
66 from Montgomery County should review to assure
67 that the most current requirements are being met.

Tree Planting Framework

68 A tree replacement framework proposes
69 appropriate areas in which to plant new trees on
70 the property. While the exact quantity of new
71 trees will be determined later, a large amount of
72 space is designated to meet requirements. While
73 coordinating the tree replacement ratios with the
74 local jurisdiction, it is recommended that GSA share
75 their current practice of tree planting. Recent
76 plantings of new trees on the campus may work
77 toward the replacements required if Montgomery

81 County is made aware of the improvements that
82 FDA has already made.

83 This plan defines three zones of tree replacement:
84 Stream Restoration, Naturalized Edge, and Loop
85 Road. These design guidelines are framework to be
86 followed in future design phases. Refer to figure
87 4.7. Specific design guidelines for the Front Lawn of
88 the FDA Headquarters are shown in figure 4.8.

89 Within the stream valley buffers, replacement
90 trees should be planted to support the health
91 of the waterways. Water-loving species of
92 trees should be planted in organic groupings
93 and protected according to plant establishment
94 practices. Bare root trees may be a cost-effective
95 option for this area. Refer to Figure 4.9- Stream
96 Restoration Photo.

97 Trees are proposed along the edges of stormwater
98 management ponds setback 15' from the base of
99 the slope and avoiding the dam embankments.

100 Trees planted beyond the Loop Road are
101 characterized as a naturalized edge. This area
102 will be dominated by native trees and woodland
103 species that can establish a less manicured look
104 and help restore the previously disturbed areas.
105 An un-mowed buffer should be setback from this
106 area to allow for a natural transition from lawn to
107 forest. Refer to Figure 4.9- Naturalized Edge.

108 Additional trees will be planted along the Loop
109 road to increase the campus character of the
110 grounds. Along this road today there is extensive
111 mowing that new trees will help to limit. Street
112 trees will also help to provide a buffer for bikers
113 using the new bike trail that is proposed around
114 the perimeter of the campus. Refer to Figure 4.9-
115 Loop Road Photo.

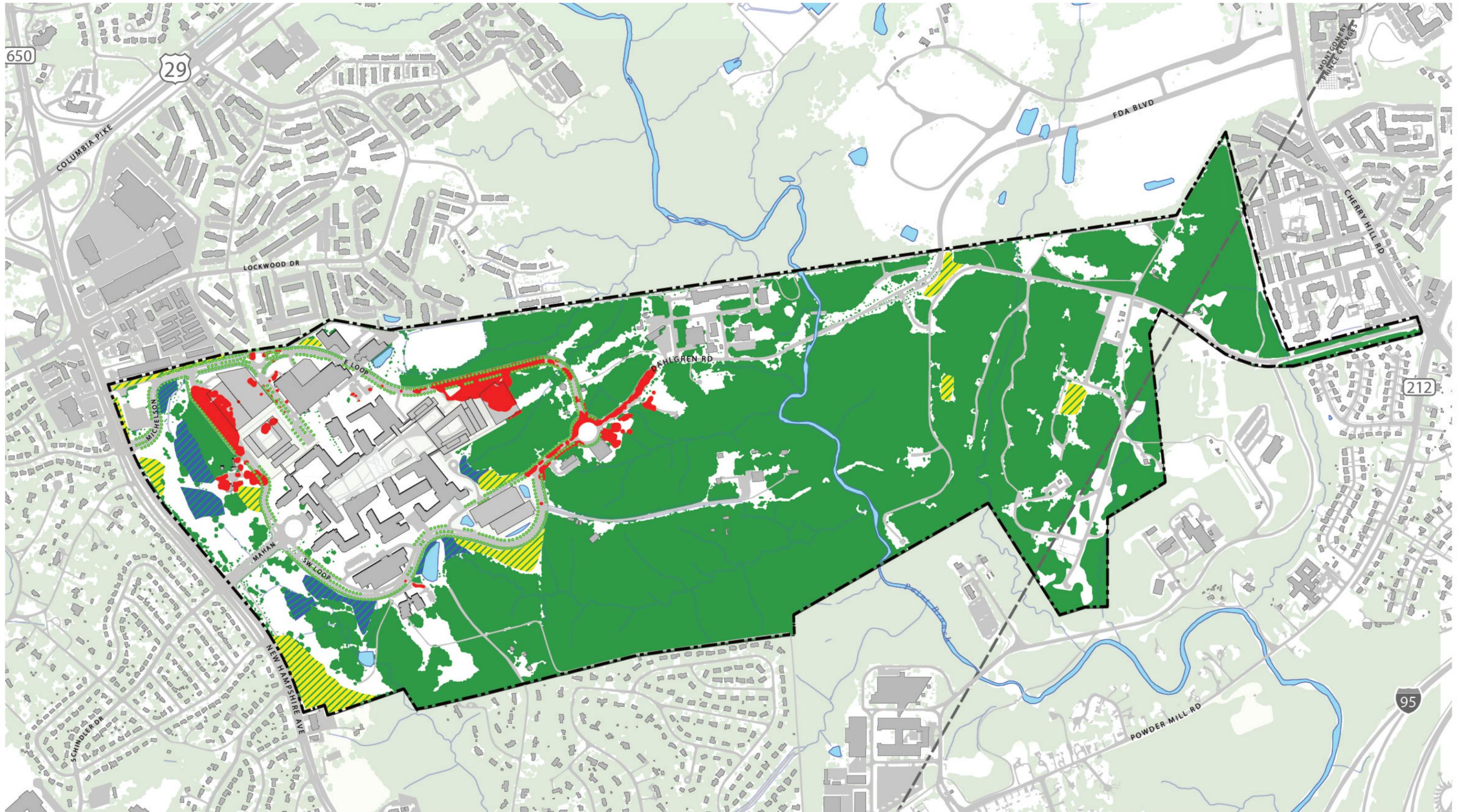


Figure 4-7: Preferred Development Alternative: Tree Removal Diagram

Preferred Development Alternative
Front Lawn Diagram



Figure 4-8: Preferred Development Alternative Front Lawn Diagram

NORTH



Scale 1:3,000



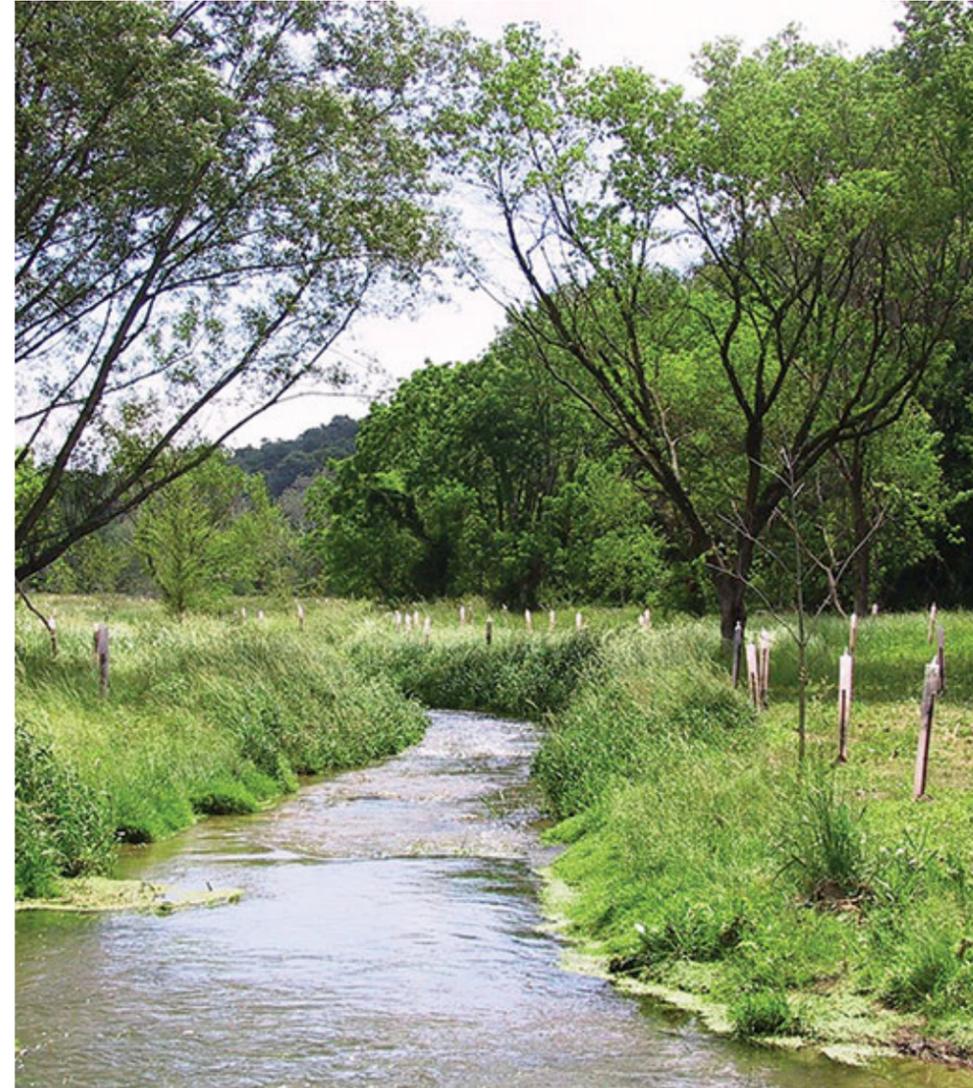
- Preserved Trees
- Mowed Lawn
- No-Mow Zone in Stream Valley Buffer
- Stream Restoration Trees
- Naturalized Edge Trees

Naturalized Edge



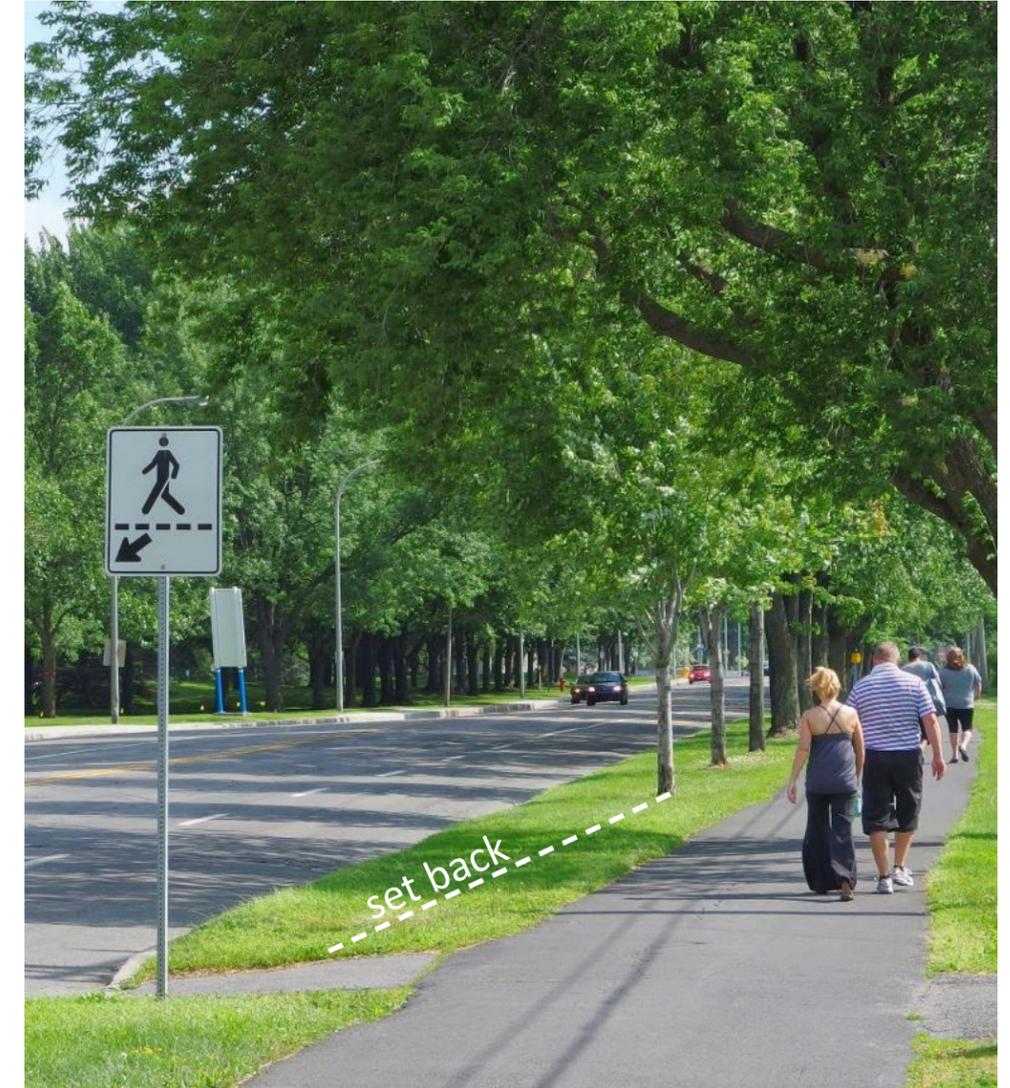
- Un-mowed grasses
- Flowering perennials
- Native under-story Trees

Stream Restoration



- Un-mowed grasses/ reeds
- Native bare-root trees

Loop Road



- Buffer for trail users
- Provides Shade

Figure 4-9: Preferred Development Alternative Tree Planting Framework



Figure 4-10: Front Lawn, Flag pole, and Main Administration Building 1



Figure 4-11: Entrance from New Hampshire Avenue

4.3.2 Impact on Viewsheds

The 1997 determination of eligibility and 2002 MOA cited the historic buffer and the views from New Hampshire Avenue to the façade of Building 1 as important campus features but did not define a historic viewshed beyond the façade of Building 1. Because of the relative location and height east of Building 1, the high-rise buildings proposed in the Preferred Development Alternative would be visible behind Building 1 when viewed from some points along New Hampshire Avenue. This visibility would be mitigated by the relative distance of the high rises (about half a mile) from Building 1. While the tall buildings would not intrude on the view of the Building 1 façade across the buffer from New Hampshire Avenue, the broader visual setting of Building 1 from New Hampshire Avenue would include taller buildings behind and above the historic building. They may also be visible, depending on seasonal vegetative cover, from the northwest portion of the campus (area 400).

The new buildings at the east and north ends of the campus would be visible from the fire station (Building 100) but given their distance from the building and the already affected visual setting due to past construction, there is no anticipated effect from the construction of new facilities.

GSA initiated consultation under Section 106 of the National Historic Preservation Act to prepare a Memorandum of Agreement (MOA) for mitigation in the event of any adverse effects to historic views or visual settings as a result of the Preferred Development Alternative.

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Preferred Development Alternative
New Hampshire Ave View



Figure 4-12: Preferred Development Alternative View from New Hampshire Ave.

