



APPENDIX E

DRAFT PROGRAMMATIC AGREEMENT



**PROGRAMMATIC AGREEMENT
AMONG
THE SMITHSONIAN INSTITUTION
THE DISTRICT OF COLUMBIA STATE HISTORIC PRESERVATION OFFICER
THE NATIONAL CAPITAL PLANNING COMMISSION
THE NATIONAL PARK SERVICE
AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN**

This Programmatic Agreement (PA) is made as of this ____ day of _____, 2018, by and among the Smithsonian Institution (SI), the National Capital Planning Commission (NCPC), the District of Columbia State Historic Preservation Officer (DC SHPO), the National Park Service (NPS), and the Advisory Council on Historic Preservation (ACHP) (referred collectively herein as the “Signatories” or individually as a “Party” or “Signatory”), pursuant to Section 106 of the National Historic Preservation Act (NHPA), 54 U.S.C. §§ 306108, and its implementing regulations 36 CFR Part 800, and pursuant to 36 CFR § 800.14(b) authorizing the negotiation of a PA to govern the implementation of a particular program, and resolution of adverse effects from complex project situations or multiple undertakings, regarding the South Mall Campus Master Plan in Washington, DC (Undertaking); and

WHEREAS, for the purposes of this PA, the South Mall Campus is defined by Independence Avenue SW to the south; 12th Street SW to the west; Jefferson Drive SW to the north, and including the Joseph Henry statue and adjacent stair, and the Hirshhorn Museum’s Sculpture Garden both located north of Jefferson Drive; and 7th Street SW to the east; and

WHEREAS, the South Mall Campus includes five principal buildings: the Freer Gallery of Art (Freer), the Smithsonian Institution Building (Castle), the Arts and Industries Building (AIB), the Quadrangle Building (Quadrangle), and the Hirshhorn Museum and Sculpture Garden (HMSG); with the Quadrangle housing the Ripley Education Center, Arthur M. Sackler Gallery (Sackler Gallery) and the National Museum of African Art (NMAfA). The Campus includes four designed gardens: the Enid A. Haupt Garden, the Mary Livingston Ripley Garden, the Kathrine Dulin Folger Rose Garden, and the Hirshhorn Museum Sculpture Garden. The Campus also includes subsidiary structures, interstitial landscape, paved circulation paths, and infrastructure, hereinafter referred to as the “Campus” or “Site” (Exhibit A); and

WHEREAS, pursuant to Section 106 of the NHPA federal agencies must take into account the effects of their undertakings on any district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Places (NRHP) and afford the ACHP a reasonable opportunity to comment; and

WHEREAS, pursuant to Public Law 108-72, 117 Stat. 888 (August 15, 2003), for projects in the District of Columbia that are subject to review and approval by the NCPC, the SI is deemed to be a federal agency for purposes of compliance with the regulations pursuant to Section 106 of the NHPA; and

WHEREAS, the NCPC has certain review and approval authority over federal projects located within the District of Columbia pursuant to the National Capital Planning Act of 1952, 40 U.S.C. § 8722(b)(1) and (d); and

1 **WHEREAS**, the South Mall Campus Master Plan has been established as an Undertaking subject to the
2 Section 106 process in accordance with 36 CFR § 800.3(a) and as defined in 36 CFR § 800.16(y); and the
3 future design and implementation of each Master Plan project will be considered as an individual
4 undertaking that requires SI to comply with the requirements of the Section 106 consultation process;
5 and
6

7 **WHEREAS**, the SI and NCPC have agreed that SI will be the lead agency pursuant to 36 CFR § 800.2(a)(2)
8 for the Undertaking to fulfill their collective Section 106 responsibilities; and
9

10 **WHEREAS**, all of the historic resources within the Campus are contributing to the National Mall Historic
11 District listed in the NRHP on October 15, 1966 (documented May 19, 1981), and updated in December
12 2016, and also listed in the District of Columbia Inventory of Historic Sites on November 8, 1964.
13 Additionally, the Castle was designated a National Historic Landmark on January 12, 1965, individually
14 listed in the NRHP on October 15, 1966, and in the DC Inventory on November 8, 1964; the AIB was
15 designated a National Historic Landmark and individually listed in the NRHP on November 11, 1971, and
16 in the DC Inventory on November 8, 1964; and the Freer was individually listed in the NRHP on June 23,
17 1969, and in the DC Inventory on November 8, 1964. The Freer, Castle, AIB, and the Quadrangle and its
18 gardens are also contributing resources to the Smithsonian Quadrangle Historic District listed in the DC
19 Inventory on April 27, 2017; and
20

21 **WHEREAS**, the SI assembled a Steering Committee drawn from senior leadership, the Board of Regents,
22 Museum Directors, and Smithsonian Gardens, to inform the Master Plan goals, objectives, and priorities;
23 and
24

25 **WHEREAS**, the SI identified the following Institutional goals and objectives to be balanced and achieved
26 by the Master Plan: to preserve and protect the historic buildings and features of the Campus to the
27 greatest extent possible, with priority for the designated NHL buildings; to improve and expand visitor
28 services and education spaces; to create clear accessible entrances and connections between the
29 Museums and gardens of the Campus, the National Mall, and surrounding context; to create an
30 expanded and consolidated central loading facility; and to replace aging building systems that have
31 reached the end of their lifespans with new systems in a centralized mechanical plant that results in
32 significant energy savings and carbon dioxide reduction; and
33

34 **WHEREAS**, the South Mall Campus Master Plan is intended to guide future short-term and long-term
35 renovation and development of the Campus, with projects to be implemented, designed, and
36 constructed over an estimated ten to twenty year period beginning in 2018, and subject to federal
37 appropriations and prioritization of certain projects and phasing; and
38

39 **WHEREAS**, the SI has conducted numerous surveys and evaluations of the Campus and buildings to
40 inform the development of the Master Plan, which have been shared publicly via the project website
41 and in public meetings, including *Existing Conditions Report Smithsonian Institution Building* (April 2009),
42 *Historic Structure Report Smithsonian Institution Building* (December 2009), *Arts and Industries Building*
43 *Historic Structure Report and Conditions Assessment* (August 2009), *South Mall Campus Cultural*
44 *Landscape Report* (February 2018), *Determination of Eligibility for the Hirshhorn Museum and Sculpture*
45 *Garden* (May 2016), and *Determination of Eligibility for the Quadrangle Building* (May 2017); and
46

47 **WHEREAS**, the SI initiated Section 106 consultation with the DC SHPO regarding the Undertaking by
48 letter dated October 9, 2014; and

1
2 **WHEREAS**, the SI and the DC SHPO determined through a Determination of Eligibility (DOE) Form dated
3 May 12, 2016, that the Hirshhorn Museum and Sculpture Garden is eligible for individual listing in the
4 NRHP; and
5

6 **WHEREAS**, the SI requested from the National Park Service a formal Determination of Eligibility for
7 listing in the NRHP pursuant to 36 CFR 800.4(c)(2) and 36 CFR § 63 for the Quadrangle Building on May
8 26, 2017; and on July 13, 2017 the Keeper of the NRHP determined the Quadrangle Building ineligible
9 for individual listing in the NRHP. The draft NRHP Nomination for the Quadrangle Historic District has
10 not yet been evaluated; and
11

12 **WHEREAS**, in addition to the Signatories, the SI has identified and consulted with other agencies, groups
13 and individuals, and has invited them to participate as Consulting Parties pursuant to 36 CFR § 800.3(f);
14 hereinafter referred to as the “Consulting Parties” (Exhibit B); and
15

16 **WHEREAS**, the SI has provided opportunities for Signatories, Consulting Parties, and public participation
17 in the consultation process through public meetings and a public website
18 (www.southmallcampus.si.edu), which provides a platform for document sharing of historic and
19 technical reports, posting of comments received with SI responses, and webcast and archived
20 presentation material from the public meetings (Exhibit C); and
21

22 **WHEREAS**, the SI and the DC SHPO, in consultation with the Consulting Parties, defined the Area of
23 Potential Effects (APE) roughly bound by 1st Street to the east, 17th Street to the west, Constitution
24 Avenue to the north, C Street and Independence Avenue to the south, and to the south centered along
25 10th Street (Exhibit D). Direct and indirect effects to the identified historic resources within the APE have
26 been considered. The APE, in addition to individual resources, includes the Washington Monument
27 Grounds, U.S. Capitol and Grounds, a portion of the Federal Triangle Historic District, a portion of the
28 Pennsylvania Avenue National Historic Site, and the National Mall Historic District; and
29

30 **WHEREAS**, pursuant to 36 CFR § 800.5(a) the SI, in consultation with the DC SHPO and the ACHP, have
31 applied the criteria of adverse effect to the various alternative concepts, and have determined that
32 implementation of the South Mall Campus Master Plan will result in adverse effects on historic
33 properties within the Campus and the Area of Potential Effects, as outlined in the *Master Plan Level*
34 *Assessment of Effects on Historic Resources* (Exhibit E); and
35

36 **WHEREAS**, specific design details are not developed at the master planning level, therefore the *Master*
37 *Plan Level Assessment of Effects* includes a determination of “potential adverse effect” from certain
38 actions. This determination indicates a potential to create adverse effects from individual or cumulative
39 actions. These effects will be further assessed as part of future Section 106 reviews of individual
40 projects, as required under the terms of this PA; and
41

42 **WHEREAS**, the SI shall reevaluate, revise when appropriate, and finalize all determinations of effect as
43 outlined in the *Master Plan Level Assessment of Effects*, including all “no adverse effect” determinations,
44 through future consultation, with the DC SHPO (at minimum) that involves submittal of detailed
45 drawings, specifications, and additional information as necessary, to document the proposed findings of
46 effect pursuant to 36 CFR Part 800, in accordance with other applicable stipulations of this PA; and
47
48

1 **WHEREAS**, in accordance with 36 CFR § 800.6(a)(1), the SI has invited the ACHP to participate in
2 consultation by letter dated September 26, 2017, as the Undertaking is likely to result in adverse effects
3 on National Historic Landmarks, and in the preparation of this PA, and the ACHP has elected to
4 participate in the consultation pursuant to 36 CFR § 800.6(a)(1)(iii); and
5

6 **WHEREAS**, pursuant to 36 CFR § 800.10(c) the SI invited the Secretary of the Interior (the “Secretary”) to
7 participate in consultation by letter dated September 26, 2017, since the Undertaking is likely to result
8 in adverse effects on National Historic Landmarks, and the National Park Service has represented the
9 Secretary concerning the NHLs within the Campus throughout consultation and will continue to
10 participate in future consultations involving the National Historic Landmarks; and
11

12 **WHEREAS**, certain Master Plan components may require work of a temporary or permanent nature
13 within areas under the jurisdiction of the NPS, which require NPS to issue a special use permit. The SI
14 acknowledges that permits and coordination with the NPS will be required for the implementation of
15 these undertakings. NPS may or may not choose to make use of the consultation process outlined in
16 this PA to fulfill its Section 106 responsibilities associated with the issuance of the necessary permits;
17 and
18

19 **WHEREAS**, this PA includes provisions which allow other federal agencies to use the terms of this PA to
20 fulfill their Section 106 responsibilities for undertakings relating to the South Mall Campus Master Plan;
21 and
22

23 **WHEREAS**, the NCPC, conducted public meetings to review the Master Plan at informational briefings on
24 April 7, 2016, and September 7, 2017; and reviewed and commented favorably on the concept Master
25 Plan on January 4, 2018, and on the draft Master Plan on April 5, 2018; and (Exhibit F)
26

27 **WHEREAS**, the SI has considered information provided by the public in the development of both the
28 Section 106 and National Environmental Policy Act (NEPA) review processes; considered and responded
29 to Signatories and Consulting Parties’ comments; posted meeting minutes, comments, and responses on
30 the project website; incorporated consulting parties’ comments in developing the Master Plan
31 alternatives; and provided for public involvement in this PA at a Consulting Parties meeting on May 9,
32 2018; and
33

34 **WHEREAS**, on November 17, 2017, the SI and NCPC released the *South Mall Campus Master Plan Draft*
35 *Environmental Impact Statement* (EIS) pursuant to the NEPA for a 60-day public comment period; and
36 released the *South Mall Campus Master Plan Final Environmental Impact Statement* on April 20, 2018,
37 for a 30-day public review period. The draft EIS and final EIS analyzed the potential impacts that the
38 Undertaking may have on the natural and man-made environment; and
39

40 **WHEREAS**, through the Draft EIS and Section 106 consultation, the SI has identified Alternative F as its
41 preferred alternative because SI believes it balances accomplishing the Master Plan goals and objectives
42 with adverse effects on historic resources; results in the least cumulative adverse impacts on the
43 environment; places a top priority for the restoration of the designated National Historic Landmark
44 buildings; improves Campus-wide infrastructure, circulation, and utilities; and increases landscaped
45 areas, and improves vistas and connections to the National Mall; and
46

47 **WHEREAS**, the SI obtained conceptual approval from the District of Columbia Public Space Regulation
48 Administration on January 26, 2018, for the curb cut and driveway for the consolidated loading facility

entrance located to the west of the Freer, and will apply specific mitigations and traffic signal safety coordination in consultation with the District Department of Transportation, as well as comply with the terms of this PA for the curb cut and associated loading ramp; and

WHEREAS, the SI intends to proceed with the Undertaking in accordance with Master Plan Alternative F (Exhibit G) and this PA; and

WHEREAS, through Section 106 consultation, the DC SHPO and some Consulting Parties expressed concerns and opposition to aspects of the alternatives that would result in adverse effects on historic properties resulting from, and not necessarily limited to the following actions: excavation beneath the Castle; altering the flat grade and other character-defining features of the Haupt Garden; the demolition of the Ripley Pavilion; the demolition of the Sackler and NMAfA Pavilions; the construction of new museum pavilions closer to the Castle and the National Mall; and related actions that diminish the integrity of historic properties; and

WHEREAS, during Section 106 consultation, certain features of the alternatives under consideration were identified as significant adverse effects on historic resources, specifically: the sloped plane of the Haupt Garden to the below grade entrance to the Visitor Center amenities, substantial excavation beneath the Castle, and the removal of the majority of the Hirshhorn plaza walls. Alternative F incorporates measures to minimize adverse effects by maintaining the grade of the Haupt Garden, limiting the depth and footprint of excavation beneath the Castle, and the retention of the majority of the Hirshhorn plaza walls; and

WHEREAS, the SI will continue to provide opportunities for ongoing public involvement in the development of this Undertaking as each individual project is designed and implemented in accordance with the Master Plan, in accordance with the terms of this PA which provides a framework for subsequent Section 106 consultation with the Signatories, Consulting Parties, and the public; and

WHEREAS, to the maximum extent feasible, project design and alterations to buildings within the Campus will be consistent with the *Secretary's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic Buildings and Guidelines for the Treatment of Cultural Landscapes*; to preserve historic building fabric and landscape character; to be compatible with historic structures using design and materials compatible with the settings and environment; new additions with limited above-grade impact to historic buildings and settings; and the least amount of damage or alteration to the historic fabric possible while providing functional occupancies meeting the programmatic requirements of the Master Plan; and

WHEREAS, Alternative F enables significant opportunities for restoration and stewardship of the buildings within the Campus, including addressing exterior envelopes and upgrading building systems. Alternative F additionally enables significant restoration work for the exterior and interior of the Castle, with opportunities to restore the Great Hall, Upper Great Hall, Children's Room, and basement vaults; and

WHEREAS, the SI recognizes the need to further avoid, minimize, and mitigate adverse effects during future project design, particularly with regard to the Quadrangle Museum pavilions, the Visitors Center entrance, Castle basement excavation and seismic protection, replacement of the Quadrangle roof membrane and treatment of the Haupt Garden, and treatment of the Hirshhorn Museum Sculpture Garden, and will continue consultation with the Signatories, Consulting Parties, and the public in

1 accordance with the terms of this PA; and that the cumulative adverse effects from the full
2 implementation of Master Plan will require reassessment as each project is addressed under Section 106
3 consultation; and
4

5 **WHEREAS**, pursuant to the consultation conducted under 36 CFR § 800.14(b), the Signatories have
6 developed this PA to take into account the adverse effects of the Undertaking on historic properties,
7 identify means to avoid, minimize and mitigate the adverse effects, and establish procedures to
8 continue consultation to resolve any unknown, known, and future adverse effects that may result from
9 the design and implementation of the South Mall Campus Master Plan; and
10

11 **WHEREAS**, the purpose of this PA is to ensure compliance with Section 106 and the principles of the
12 NHPA, whereby SI will conduct consultation for the implementation and design of each phase of the
13 Master Plan, and prior to any effort that may directly or indirectly affect historic properties, shall to the
14 greatest extent possible, undertake planning and actions as necessary to avoid or minimize adverse
15 effects and shall afford the DC SHPO and the ACHP reasonable opportunity to comment; and
16

17 **WHEREAS**, the Signatories acknowledge that Section 106 consultation regarding the development of the
18 South Mall Campus Master Plan itself has concluded with the execution of this PA;
19

20 **NOW, THEREFORE**, the Signatories agree that implementation of the South Mall Campus Master Plan
21 shall be carried out in accordance with the following stipulations in order to take into account and avoid,
22 minimize, and mitigate the adverse effects of the South Mall Campus Master Plan on historic properties.
23

24 **STIPULATIONS**

25
26
27 The SI shall ensure that the following measures are carried out:
28

29 **ON-GOING AND FUTURE CONSULTATION**

30
31 The general site plans, sections, and renderings included in Exhibit G illustrate Alternative F current as of
32 the date of the last signature on this PA. Additional consultation will be required for each project
33 developed for the implementation of the South Mall Campus Master Plan. As each project is designed,
34 there is potential for unidentified adverse effects and for previously identified adverse effects as
35 outlined in the *Master Plan Level Assessment of Effects* (Exhibit E) to be intensified. Therefore, the SI
36 shall continue to consult with the Signatories, Consulting Parties, and the public, and take their
37 comments into account in accordance with this PA and 36 CFR Part 800 as follows:
38

39 **1. Preliminary Project Consultation**

40
41 Early in the design development of each project, the SI will initiate preliminary consultation with the
42 Signatories regarding the proposed designs for buildings or site changes, and will incorporate comments
43 provided into the design to the greatest extent feasible, in light of the project's goals and objectives and
44 this PA. This early consultation will be centered around in-person group meetings, and will occur during
45 the schematic phase of design development or pre-submission phase consistent with the NCP
46 Submission Guidelines, and before 15% design development drawings.
47

- 1 A. The SI will work with the Signatories to define the scope of the project(s), preliminarily assess
2 adverse effects, develop and/or update the Consulting Parties list, and define the formal Section
3 106 consultation schedule and level of effort as they relate to the proposed project(s).
4 Specifically, the SI will work with the Signatories to determine whether consulting party
5 meetings will be required, and if so, outline a meeting schedule dependent upon the level of
6 complexity of the project. If any Signatory believes a consulting party meeting(s) is/are
7 necessary because a project is likely to result in an adverse effect, the SI shall agree to conduct
8 such a meeting(s).
9
- 10 B. DC Historic Preservation Review Board (HPRB) Review: The DC SHPO may refer future South
11 Mall Campus Master Plan projects to the HPRB for review and comment at any time during
12 Preliminary Consultation or Section 106 Consultation. The SI shall cooperate with the DC SHPO
13 to provide all necessary documentation and schedule any such HPRB hearings and shall consider
14 any HPRB comments in the development of project review and plans.
15
- 16 C. Coordination and Consultation with NPS: The SI will consult early with the NPS regarding any
17 project with the potential to affect the two NHL buildings, and/or any project that will impact
18 historic resources on NPS park lands or under NPS jurisdiction. In addition, when a project will
19 require work on NPS land, the SI will coordinate early with the NPS to determine if special use
20 permits must be issued, and whether NPS will use this PA to fulfill Section 106 responsibilities. If
21 NPS chooses not to use this PA, the NPS will notify the Signatories and will conduct a separate
22 Section 106 review.
23

24 **2. Section 106 Consultation Process and Procedures**

25

26 Implementation of the South Mall Campus Master Plan will be carried out over a period of an estimated
27 ten (10) to twenty (20) years, with each project designed within the framework outlined in Alternative F
28 and in this PA. The SI shall reevaluate, seek comments from the Signatories and Consulting Parties,
29 revise when appropriate, and finalize all determinations of effect as outlined in the *Master Plan Level*
30 *Assessment of Effects*, including all “no adverse effect” determinations, through future consultation.
31 The design and implementation of each project will undergo a separate and substantive Section 106
32 review and consultation process pursuant to this PA:
33

- 34 A. Initiating Consultation: After the development of a schematic design and preliminary
35 project consultation in accordance with Stipulation 1, the SI will formally initiate
36 consultation with the DC SHPO and the Signatories via letter and notify the Consulting
37 Parties through one of the following: provide information via email, develop a project
38 specific website, or post the information to the SI’s Office of Architectural History and
39 Historic Preservation website.
40
- 41 B. Nature of Consultation: Based upon the results of preliminary project consultation carried
42 out in accordance with Stipulation 1, the SI shall provide sufficient time for a Consulting
43 Parties’ Meeting or Meetings to occur, if necessary, before making a determination of effect
44 in accordance with Stipulation 2.C.
45
- 46 C. Assessment of Effect: Based upon early consultation conducted in accordance with
47 Stipulation 1 above, the SI shall apply the criteria of adverse effect in consultation with the

1 DC SHPO and determine if the project(s) will result in “No Historic Properties Affected”, “No
2 Adverse Effect”, or “Adverse Effect” on historic properties within the Area of Potential
3 Effects (Exhibit D). Such determinations will be based upon the submission of up-to-date
4 and detailed plans, drawings, specifications and additional information necessary to make
5 final determinations of effect.
6

7 i. No Historic Properties Affected: All of the buildings in the South Mall Campus are
8 historic properties, but there may be specific projects that will have no effect on
9 said historic properties. If the SI reaches a determination of “No Historic Properties
10 Affected”, the SI will notify the Signatories in writing, provide sufficient project
11 documentation to support its determination, and request concurrence. The SI shall
12 simultaneously provide the project documentation and determination to the
13 Consulting Parties through one of the following: provide information via email,
14 develop a project specific website, or post the information to the SI’s Office of
15 Architectural History and Historic Preservation website.
16

- 17 a. The Signatories and Consulting Parties shall have thirty (30) days
18 from receipt/posting of an adequately documented submission to
19 review and comment on the determination. The DC SHPO shall
20 have an additional fifteen (15) days to review and comment to take
21 into account the comments of Consulting Parties and other
22 Signatories.
23 b. If there are no objections to the determination within the specified
24 timeframes, the SI may move forward with the project as proposed.
25 Any objections shall be addressed in accordance with Stipulation 13
26 (Dispute Resolution).
27

28 ii. Determination of No Adverse Effect: If the SI determines a project will result in “No
29 Adverse Effect,” it will notify the Signatories in writing, provide sufficient project
30 documentation to support its determination, and request concurrence. The SI shall
31 simultaneously provide the project documentation and determination to the
32 Consulting Parties through one of the following: provide information via email,
33 develop a project specific website, or post the information to the SI’s Office of
34 Architectural History and Historic Preservation website.
35

- 36 a. The Signatories and Consulting Parties shall have thirty (30) days
37 from receipt/posting of an adequately documented submission to
38 review and comment on the determination. The DC SHPO shall
39 have an additional fifteen (15) days to review and comment to take
40 into account the comments of Consulting Parties and other
41 Signatories. If there are no objections to the determination, the SI
42 may move forward with the project as proposed.
43 b. If a Consulting Party responds that it does not concur with the
44 determination of “No Adverse Effect,” the SI will notify the

Signatories, consider the Consulting Party comments and consult with all parties to resolve the disagreement. Any disagreement with a Consulting Party that cannot be resolved shall be addressed in accordance with Stipulation 13.B of this PA. If any Signatory responds that it does not concur with the determination of "No Adverse Effect," the SI will consult with the Signatories to attempt to resolve the disagreement.

- c. If the disagreement cannot be resolved, the SI will refer its determination to the ACHP per 36 CFR 800.5(c)(3)(i) to determine whether the adverse effect criteria have been correctly applied. If the ACHP determines that the project will have "No Adverse Effect," the SI may proceed with its project accordingly. If the ACHP determines that the project may result in an "Adverse Effect," the SI will consider whether further consultation is required under 2.B.iii.

- iii. Determination of Adverse Effect: If the SI determines a project will result in an "Adverse Effect," including any previously unidentified, intensified or cumulative "Adverse Effects," it will notify the Signatories in writing, provide sufficient documentation to support its determination; share the determination via email, post each project submittal and determination to a specific project website, or post the information to the SI's Office of Architectural History and Historic Preservation website for Consulting Party review, and consult further with the Signatories and Consulting Parties to seek ways to avoid the "Adverse Effect."

- a. The Signatories and Consulting Parties shall have thirty (30) days from receipt/posting of an adequately documented submission to review and comment on the determination. The DC SHPO shall have an additional fifteen (15) days to review and comment to take into account the comments of Consulting Parties and other Signatories. These review periods will occur prior to conducting a Consulting Parties meeting.
- b. If all parties agree that avoidance is possible, SI will modify its plans accordingly, document the finding with the DC SHPO, and implement the project(s) in the manner that avoids the "Adverse Effect(s)."
- c. If avoidance is not possible, SI shall consult further with the Signatories and Consulting Parties to identify ways to minimize or mitigate the "Adverse Effect(s)." Agreed upon minimization and mitigation measures shall be formalized in Memoranda of Agreement (MOA) executed pursuant to 36 CFR 800.6. Any disagreement regarding "Adverse Effect" determinations shall be referred to the ACHP per Stipulation 13 (Dispute Resolution).

3. Continuing Involvement of Consulting Parties and the Public

Consulting Parties and the public will continue to have the opportunity to comment on each project for the implementation of the South Mall Campus Master Plan during Section 106 consultation pursuant to this PA.

- A. At the initiation of each Section 106 consultation, the SI shall consult with the DC SHPO and the Signatories to update and expand the Consulting Parties list as suggested.
- B. The SI shall provide project documentation and determinations of effect to the Consulting Parties and/or public through one of the following:
 - i. Provide project documentation and determinations of effect via email.
 - ii. Develop a project specific website, and post all project information to the website, with notification to the Consulting Parties as information is posted.
 - iii. Post project information to the SI's Office of Architectural History and Historic Preservation website, with notification to the Consulting Parties as information is posted.
- C. The SI will establish a schedule for project specific Section 106 consultation with critical dates and identified opportunities for providing input in accordance with Stipulation 1. The SI will keep the Consulting Parties and the public informed of the established schedule via one of the formats outlined in Stipulation 3.B.

4. MINIMIZATION MEASURES FOR ALTERNATIVE F

The following measures, which were concessions made and agreed upon during Section 106 consultation to minimize adverse effects on historic properties, shall be applied and incorporated into associated designs, as appropriate, and serve as a starting point for future Section 106 consultation in accordance with Stipulation 2:

- A. Reduction of Campus Excavation: Excavation beneath the Castle will be limited to the consolidated loading facility located beneath the West Wing and Range, to increase the ceiling height of the Castle basement level, and excavation below the basement level to accommodate utility distribution, footings, and seismic measures. Excavation beneath the Castle will not exceed the extents outlined in Alternative F.
- B. Hirshhorn Museum and Sculpture Garden:
 - i. The Hirshhorn plaza aggregate concrete walls will be maintained and restored. Alterations will be limited to minimal changes to the west wall, including the removal of the non-historic accessible ramp and opening, and removal of a select portion of the wall to connect with the main east-west Campus circulation route and to the central door on the AIB's east elevation.

- 1 ii. The Sculpture Garden will maintain a depressed elevation, below the grade of the
2 National Mall. The Sculpture Garden will maintain its current footprint, and the
3 aggregate concrete perimeter walls will be restored.
4

- 5 C. Preservation, Repair, and Rehabilitation: All future preservation, repair, and rehabilitation
6 efforts will be carried out in accordance with the NHPA, and the *Secretary of the Interior's*
7 *Standards with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic*
8 *Buildings and Guidelines for the Treatment of Cultural Landscapes.*
9

10 **5. SPECIFIC MITIGATION MEASURES**

11

12 The SI shall ensure that mitigation measures commensurate with final adverse effect determinations
13 made pursuant to this PA shall be identified in future consultation with the Signatories and Consulting
14 Parties and implemented in accordance with individual project Memoranda of Agreement. It is
15 understood that the following measures are a starting point for future consultation, and are not
16 necessarily sufficient to adequately mitigate all adverse effects that may result from implementation of
17 the South Mall Campus Master Plan, including any adverse effects which may have been previously
18 unidentified and any which may be intensified and/or cumulative. At a minimum, these mitigation
19 measures shall include nominating historic properties to the NRHP and updating existing NRHP
20 nominations and NHL documentation, as appropriate. The following documentation and recordation
21 mitigation measures shall be initiated within five (5) years of the last signature on this PA to allow time
22 to allocate funding:
23

- 24 A. HABS/HALS Recordation of the Quadrangle and Haupt Garden: The SI shall use Historic
25 American Building Survey/Historic American Engineering Record/Historic American
26 Landscape Survey (HABS/HAER/HALS) Level 3 standards to document the Ripley Pavilion,
27 Sackler Gallery Pavilion, African Art Pavilion, Haupt Garden, and associated Garden
28 structures including the Moongate Garden, Fountain Garden, Downing Urn, and the Renwick
29 Gates. The documentation will include exterior and interior photographs and measured
30 drawings prior to any construction or implementation of the Master Plan. Documentation
31 will be submitted for inclusion in the HABS/HAER/HALS collection.
32
- 33 B. HABS/HALS Recordation of the Hirshhorn Museum and Sculpture Garden: The SI shall use
34 Historic American Building Survey/Historic American Engineering Record/Historic American
35 Landscape Survey (HABS/HAER/HALS) Level 3 standards to document the Hirshhorn
36 Museum Sculpture Garden. The documentation will include exterior photographs prior to
37 any construction or implementation of the Master Plan. Documentation will be submitted
38 for inclusion in the HABS/HAER/HALS collection.
39
- 40 C. National Register Nomination for the Hirshhorn Museum and Sculpture Garden: The SI will
41 complete an individual National Register of Historic Places Nomination for the Hirshhorn
42 Museum and Sculpture Garden. The Nomination shall be completed by an individual or
43 individuals meeting Stipulation 11, and carried out in consultation with the DC SHPO.
44
- 45 D. Update the National Register Nomination for the Freer Gallery of Art: The SI will update the
46 existing individual National Register of Historic Places Nomination for the Freer Gallery of
47 Art. The Nomination shall be completed by an individual or individuals meeting Stipulation
48 11, and carried out in consultation with the DC SHPO.

- 1
- 2 E. Updates to National Historic Landmark Documentation: The SI will update the existing
- 3 National Historic Landmark documentation for the Smithsonian Institution Building (Castle)
- 4 and the Arts and Industries Building. The documentation will be completed by an individual
- 5 or individuals meeting Stipulation 11, and carried out in consultation with the National
- 6 Historic Landmarks Program of the National Park Service.
- 7

8 **6. IMPLEMENTATION OF PROJECTS**

9

10 The Master Plan will be constructed in phases over an estimated ten (10) to twenty (20) year period.

11 The SI will ensure that the following measures will be carried out in association with the implementation

12 and construction of the Master Plan projects:

13

- 14 A. Design and Construction Phasing. The Master Plan projects will be designed and
- 15 implemented as funding becomes available. Top priority will be given to the restoration of
- 16 the Castle and the related seismic retrofit. An anticipated commencement and phased
- 17 implementation approach to the Master Plan is outlined in Exhibit H. This anticipated
- 18 schedule is subject to change; any schedule changes will be communicated to the
- 19 Signatories.
- 20
- 21 B. Required Federal Agency Reviews. The Signatories will be informed of the outcomes of
- 22 formal reviews by the NCPC, Commission of Fine Arts, and the DC SHPO, per annual
- 23 reporting under Stipulation 10. Upon request, the SI will provide requesting Signatories a
- 24 copy of the project materials submitted to the agency pursuant to the associated review.
- 25
- 26 C. Monitoring of Adjacent Historic Properties. To ensure that the construction and
- 27 implementation of the South Mall Campus Master Plan does not harm the stability of the
- 28 Castle, AIB, and Freer, the SI will complete extensive baseline information to document pre-
- 29 construction conditions and will develop a Monitoring Plan that requires SI to install, prior to
- 30 the testing phase, vibration and monitoring devices to be used during testing and all phases
- 31 of construction. Testing and construction shall be temporarily halted should any vibration,
- 32 noise, settlement or unanticipated circumstances exceed the safe limits outlined in the
- 33 Monitoring Plan. Work shall resume only after remediation and consultation with the
- 34 Signatories.
- 35
- 36 D. Campus Circulation. The SI will endeavor to maintain pedestrian access and circulation
- 37 through the landscaped areas of the Campus as much as is practical during construction.
- 38
- 39 E. Arts and Industries Building. The Master Plan facilitates the mechanical and loading
- 40 infrastructure to enable the interim use and/or permanent use of the AIB for general
- 41 modifications, public exhibitions, educational programming, and special events. The AIB will
- 42 continue to function as a flexible event and exhibition space, and will house a temporary
- 43 Visitor's Center during the Castle renovation, until a permanent use is identified and funding
- 44 comes available. The SI shall notify the Signatories and seek comments on design
- 45 modifications required to enable permanent use of the AIB in accordance with this PA.
- 46
- 47 F. Interpretive Signage Related to Construction. The SI shall prepare interpretive exhibits to be
- 48 in place at the start of construction on each project. The exhibit will provide summary

1 information on the history of the associated building and the relationship of the project to
2 the Master Plan. The nature of the exhibits will be flexible, based upon individual projects'
3 construction related closures, and is intended to educate the public about construction
4 activities.
5

- 6 G. Maintenance of Website: The SI will maintain the South Mall Campus Master Plan website
7 until the first Master Plan project is implemented. The SI will continue to post ongoing
8 project implementation studies, such as seismic upgrades and structural protection plans for
9 excavation work, during this interim period. After this period, the website will redirect users
10 to the SI's Office of Architectural History and Historic Preservation, where the materials
11 from the South Mall Campus Master Plan website will be relocated, and where they will
12 remain accessible to the public. The SI will publicize future Section 106 consultation on
13 design projects for the implementation of the Master Plan in accordance with Stipulations 2
14 and 3.
15

16 **7. EMERGENCY ACTIONS** 17

18 Emergency actions are those actions deemed necessary by the SI as an immediate and direct response
19 to an emergency situation. Provisions of this PA shall not restrict or otherwise impede the SI from taking
20 immediate actions deemed necessary as an immediate and direct response to an emergency situation,
21 to protect life and property, detect or otherwise respond to a credible terrorist threat or attack upon the
22 Campus, or to address an emergency condition resulting from construction. Emergency actions under
23 this PA are only those implemented within thirty (30) calendar days from the initiation of the emergency
24 situation.
25

- 26 A. If the emergency action has the potential to affect historic properties, the SI shall notify the
27 DC SHPO, Signatories, and other relevant parties as appropriate, prior to undertaking the
28 action, when feasible. As part of the notification, SI shall provide a plan to address the
29 emergency. The DC SHPO shall have seven (7) calendar days to review and comment on the
30 plan to address the emergency. If the DC SHPO does not comment or does not object to the
31 plan within the review period, SI shall implement the proposed plan.
32
- 33 B. If the SI is unable to consult prior to carrying out emergency actions, SI shall notify the DC
34 SHPO, Signatories, and other parties as appropriate, within forty-eight (48) hours after the
35 initiation of the emergency action. This notification shall include a description of the
36 emergency action taken, the effects of the action(s) to historic properties, and, where
37 appropriate, any further proposed measures to avoid, minimize, or mitigate potential
38 adverse effects to historic properties. The DC SHPO shall have seven (7) calendar days to
39 review and comment on the proposal where further action is required to address the
40 emergency. If the DC SHPO does not comment or does not object to the plan within the
41 review period, the SI shall implement the proposed plan.
42
- 43 C. Where possible, such emergency actions shall be undertaken in a manner that does not
44 preclude future preservation or restoration of historic properties.
45
- 46 D. Immediate rescue and salvage operations conducted to preserve life or property are exempt
47 from these and all other provisions of this PA.
48

8. MODIFICATIONS TO THE MASTER PLAN

Due to the extended timeframe for design and implementation of the South Mall Campus Master Plan, modifications to the Master Plan may be necessary. The SI will consult with the Signatories and Consulting Parties on any amendment/modification to the Master Plan in accordance with Stipulation 1 (Preliminary Project Consultation) and 2 (Section 106 Consultation and Procedures). Notice will be provided to the Signatories and Consulting Parties of any submissions to NCPC for review and approval of the Master Plan amendment/modification.

9. POST-DESIGN REVIEW ARCHAEOLOGICAL DISCOVERIES

The Campus has been extensively disturbed by the construction of the existing buildings, therefore, there is minimal potential for archaeological resources that are listed in or eligible for listing in the National Register to be disturbed. The following stipulations, however, outlines the manner in which previously undiscovered archaeological resources will be reviewed if they are discovered:

- A. Cultural Resources. Should cultural resources be unexpectedly identified during the implementation of the Master Plan or any actions taken pursuant to this PA, the SI shall ensure that reasonable efforts are made to avoid, minimize or mitigate adverse effects to such resources, and shall consult with the DC SHPO to resolve any unavoidable adverse effects pursuant to 36 CFR § 800.6. SI and DC SHPO shall resolve any disputes over the evaluation or treatment of previously unidentified resources using the processes outlined in Stipulation 2 of this PA.
- B. Treatment of Human Remains. In the event that human remains, burials, or funerary objects are discovered during construction or any action taken pursuant to this PA, the SI shall immediately halt subsurface construction disturbance in the area of the discovery and in the surrounding area where additional remains can reasonably be expected to occur. The SI shall immediately notify the DC SHPO and the District of Columbia Chief Medical Examiner (CME) of the discovery under DC Code Section 5-1406 and other applicable laws and regulations.
 - i. If CME determines that the human remains are not subject to a criminal investigation by federal or local authorities, SI shall comply with the applicable federal or local laws and regulations governing the discovery and disposition of human remains and consider the ACHP's Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects (2007).
 - ii. For actions involving Native American human remains or burials, SI shall comply with applicable laws. in accordance with provisions of the Native American Graves Protection and Repatriation Act, as amended (Public Law 101-601, 25 USC 3001 et seq.), and regulations of the Secretary of the Interior at 43 CFR Part 10. Should human remains or such objects be found, the DC SHPO shall be notified pursuant to 43 CFR Section 10.4(d).

10. MONITORING AND REPORTING

Each year, until the PA expires or is terminated, the SI shall provide the Signatories with a summary report detailing work undertaken pursuant to its terms, or a statement of “no activity”. The report will be issued annually on or before July 31st. The report will summarize the efforts carried out during the prior year, updates on current Section 106 consultation processes, and any projects planned for the coming year. The SI shall convene a meeting to discuss the information contained in the annual report as required, or when requested by a Signatory. Failure to provide such summary report may be considered noncompliance with the terms of the PA pursuant to the Amendments and Non-Compliance stipulation of this PA.

11. QUALIFICATIONS

SI shall ensure that all historic preservation and/or archaeological work performed on its behalf pursuant to this PA shall be accomplished by, or under the direct supervision of a person or persons who meet(s) or exceed(s) the pertinent qualifications in the Secretary’s Professional Standards (Archaeology and Historic Preservation: Secretary of the Interior’s Standards and Guidelines [As Amended and Annotated]), formerly located at 36 CFR Part 61 in those areas in which the qualifications are applicable for the specific work performed.

12. ANTI-DEFICIENCY ACT

The SI’s obligations under this PA are, in part, subject to the availability of appropriated funds, and the stipulations of this PA are subject to the provisions of the Anti-Deficiency Act. The SI shall make reasonable and good faith efforts to secure the necessary funds to implement its obligations under this PA. If lack of funds alters or impairs compliance with the Anti-Deficiency Act and the SI’s ability to implement its obligations under this PA, the SI shall consult in accordance with Stipulation 14 (Amendments to the PA and Non-Compliance), and if necessary, the Stipulation 16 (Termination).

13. DISPUTE RESOLUTION

A. Dispute Resolution for Signatories: Should any Signatory to this PA object at any time to any action proposed or the manner in which the terms of this PA are being implemented, the SI shall consult with such party and the other Signatories to resolve the objection. If a resolution cannot be reached after a good faith effort to resolve the dispute has been carried out, the SI shall forward all documentation relevant to the dispute to the ACHP including the SI’s proposed response to the objection. Within 45 days after receipt of all pertinent documentation, the ACHP shall exercise one of the following options:

- i. Advise the SI that the ACHP concurs with the SI’s proposed response to the objection;
- ii. Provide the SI with recommendations, which the SI shall take into account in reaching a final decision regarding its response to the objection; or
- iii. Notify the SI that the objection will be referred for comment pursuant to 36 CFR 800.7(c), and proceed for comment. The resulting comment shall be taken into account by the SI in accordance with 36 CFR 800.7(c)(4) with reference to the dispute.

The SI shall take into account any ACHP recommendation or comment provided in accordance with this stipulation with reference only to the subject of this objection; the SI’s responsibility to carry out actions under this PA that are not subjects of the objection shall remain unchanged.

Should the ACHP not exercise one of the above options within 45 days after receipt of all documentation, the SI may assume the ACHP's concurrence in its proposed response to the objection.

B. Dispute Resolution for Consulting Parties: A Consulting Party may object in writing to the SI, with copies to the other Signatories and Consulting Parties, regarding any action proposed to be carried out with respect to the implementation of the Master Plan and the PA. The SI shall take the objection into account and may consult with the objecting party, and other Consulting Parties and Signatories to resolve the dispute. The SI shall then respond to the objecting party in writing, with copies to the Signatories and other Consulting Parties. If the SI subsequently determines that the objection cannot be resolved through consultation, the SI shall notify the objecting party, the DC SHPO, and the ACHP which of the following options it will exercise:

- i. Seek the assistance of the ACHP in resolving the objection in accordance with Stipulation 13.A.i-iii; or
- ii. Provide a formal written response to the objection within thirty (30) days of notice to the objecting party and provide the Signatories and other Consulting Parties with copies of the written response

14. AMENDMENTS TO THE PA AND NON-COMPLIANCE

This PA may be amended when such an amendment is agreed to in writing by all Signatories. The amendment will be effective on the date a copy signed by all the Signatories is filed with the ACHP. The original amendment will be filed with the ACHP. If the Signatories cannot agree to appropriate terms to amend the PA, any Signatory may terminate the PA in accordance with Stipulation 16.

15. ELECTRONIC COPIES

Within one week of the last signature on this PA, the SI shall provide each Signatory with one legible, color, electronic copy of the fully executed PA and all of its attachments fully integrated into one, single document. Internet links shall not be used as a means to provide copies of attachments since web-based information can change. If the electronic copy is too large to send by e-mail, the SI shall provide each signatory with a copy of this PA on a compact disc.

16. TERMINATION

If any Signatory to this PA determines that its terms cannot or are not being properly implemented, that Signatory shall immediately consult with the other Signatories to attempt to resolve the dispute or develop an amendment per Stipulations 13 and 14 above. If within sixty (60) days (or another time period agreed to by all Signatories) an amendment cannot be reached, any Signatory may terminate the PA upon written notification to the other Signatories.

Once the PA is terminated, and prior to work continuing on the Undertaking, SI must either (a) execute a new PA or MOA pursuant to 36 CFR § 800.14(b) or 800.6, or (b) reinstate Section 106 consultation on the unfinished components of the Undertaking pursuant to 36 CFR Part 800. SI shall notify the Signatories as to the course of action it will pursue.

1 **17. COORDINATION WITH OTHER FEDERAL REVIEWS**

2
3 If the Signatories receive a written request from another federal agency or agencies to meet their
4 Section 106 responsibilities for undertakings relating to implementation of the South Mall Campus
5 Master Plan by adopting the terms of this PA, the Signatories shall consider the request(s) and if all
6 Signatories agree, the requesting agency or agencies may do so by an amendment carried out pursuant
7 to Stipulation 14 of this PA.
8

9 **18. DURATION**

10
11 This PA shall be in effect for twenty-five (25) years from the date of the last signature on this PA. If
12 necessary, the duration of this PA may be modified provided that all Signatories agree in writing.
13

14 Execution of this PA by the Signatories and implementation of its terms evidence that the SI has taken
15 into account the effects of this Undertaking on historic properties and afforded the ACHP a reasonable
16 opportunity to comment with regard to the Undertaking.
17

18 **SIGNATURES AND EXHIBITS FOLLOW ON SEPARATE PAGES**

19
20 **EXHIBITS**

21 Exhibit A – South Mall Campus Site Plan
22 Exhibit B – Invitees to Scoping and Consulting Parties Meetings
23 Exhibit C – List of Consulting Parties Meetings
24 Exhibit D – Area of Potential Effects
25 Exhibit E – Master Plan Level Assessment of Effects on Historic Resources
26 Exhibit F – Comments from the National Capital Planning Commission
27 Exhibit G – South Mall Campus Master Plan Alternative F
28 Exhibit H – Design and Construction Phasing
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SIGNATURE PAGE

PROGRAMMATIC AGREEMENT
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN

FOR THE SMITHSONIAN INSTITUTION

By: _____

Albert G. Horvath
Under Secretary for Finance and Administration

Date

SIGNATURE PAGE

**PROGRAMMATIC AGREEMENT
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN**

FOR THE DISTRICT OF COLUMBIA STATE HISTORIC PRESERVATION OFFICER

By: _____

David Maloney
State Historic Preservation Officer, District of Columbia

Date

SIGNATURE PAGE

**PROGRAMMATIC AGREEMENT
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN**

FOR THE NATIONAL CAPITAL PLANNING COMMISSION

By: _____

Marcel C. Acosta
Executive Director

Date

SIGNATURE PAGE

**PROGRAMMATIC AGREEMENT
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN**

FOR THE NATIONAL PARK SERVICE

By: _____

SIGNATURE PAGE

PROGRAMMATIC AGREEMENT
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN

FOR THE ADVISORY COUNCIL ON HISTORIC PRESERVATION

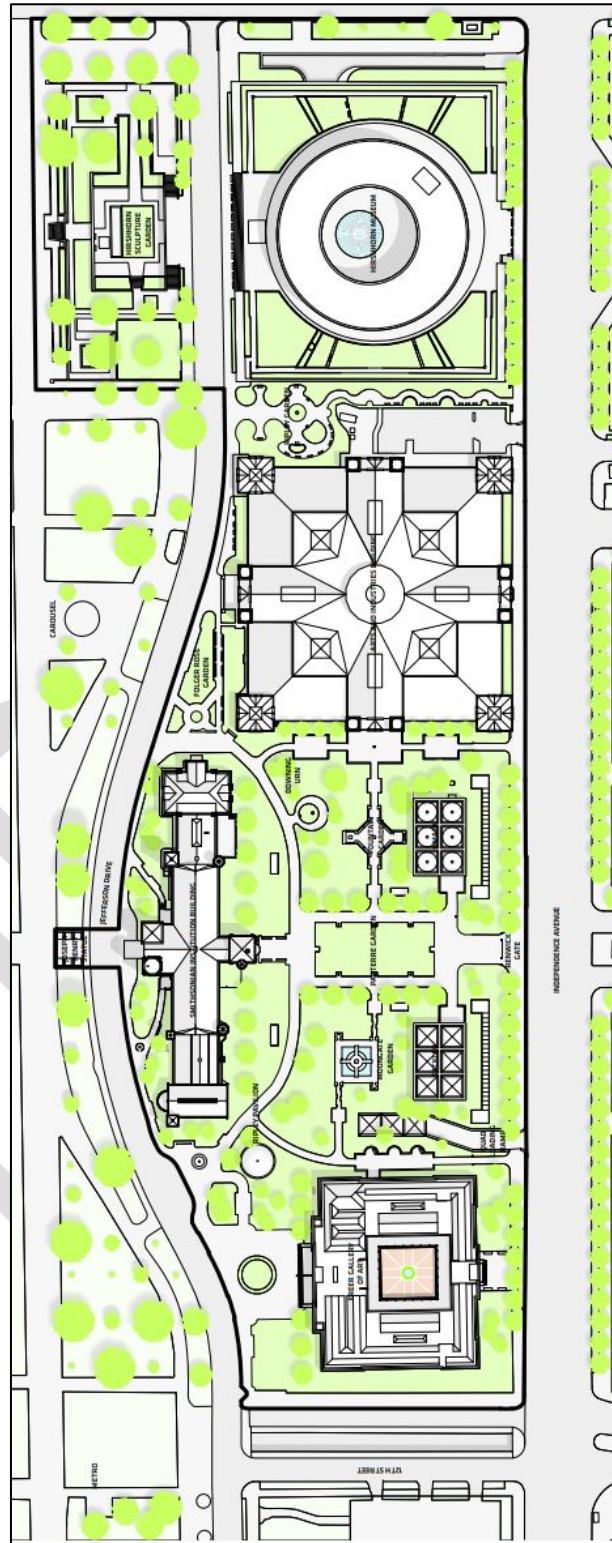
By: _____

John M. Fowler
Executive Director

Date

EXHIBITS

Exhibit A – South Mall Campus Site Plan



Existing South Mall Campus Plan. Bjarke Ingels Group.

Exhibit B – Invitees to Scoping and Consulting Parties Meetings

Review Agencies

National Capital Planning Commission
US Commission of Fine Arts
State Historic Preservation Office
DC Historic Preservation Office
Tribal Historic Preservation Office
Delaware Nation
Public Agencies
Advisory Council on Historic Preservation
Architect of the Capitol
DC Department of Transportation
DC Office of Planning
National Archives and Records Administration
National Gallery of Art
National Park Service – National Mall and
Memorial Parks
National Park Service, National Capital Region –
National Historic Landmarks Coordinator
US Department of Agriculture
US General Services Administration
Washington Metropolitan Area Transit
Authority
DC Department of the Environment
DC Department of Public Works
DC Fire and Emergency Medical Services
DC Chamber of Commerce
US Department of Energy
US Department of Health and Human Services
Federal Aviation Administration
Voice of America
Internal Revenue Service
US Department of Justice

Interested Parties

American Institute of Architects, DC Chapter
Committee of 100 on the Federal City
Cultural Landscape Foundation
Cultural Tourism DC
DC Preservation League
DC Water
Docomomo US, DC Chapter
Dwight D. Eisenhower Memorial Commission
Guild of Professional Tour Guides of
Washington, DC
NPS Concessionaire
National Association of Olmsted Parks
National Coalition to Save Our Mall
National Trust for Historic Preservation
Potomac Electric Power Company
Preservation Action
Society of Architectural Historians
Society of Architectural Historians, Latrobe
Chapter
Trust for the National Mall
US Capitol Historical Society
US Holocaust Memorial Museum
Victorian Society in America
Washington Gas
Southwest Neighborhood Assembly
National Civic Art Society
Waterfront Gateway Neighborhood Association
American Society of Landscape Architects
Bethesda Community Garden Club
National Conference of State Historic
Preservation Officers
Local Elected Representatives
Advisory Neighborhood Commission 2C
Advisory Neighborhood Commission 6D
DC Office of the Mayor
DC City Council
DC Delegate



Smithsonian Institution
South Mall Campus Master Plan

1 Exhibit C – List of Consulting Parties Meetings

2

Consulting Parties Meeting Date	Meeting Summary
December 16, 2014	Conducted jointly with the NEPA Public Scoping Meeting to provide an overview of the project and its major goals and objectives. To introduce the Section 106 process, NCPC and SI defined the undertaking; presented a draft Area of Potential Effects (APE); and identified historic properties within the APE, including the findings of the ongoing Cultural Landscape Report (CLR) for the South Mall Campus. For the purposes of NEPA, NCPC and SI presented the purpose and need for the project, the potential environmental issues to be addressed in the EIS, and the preliminary alternatives to be analyzed in the EIS. Information was provided on the coordination of the Section 106 and NEPA processes. The presentation was followed by an open house for attendees to review the alternatives under consideration, provide written or verbal comments, or ask questions. Comments provided by Consulting Parties and meeting attendees were recorded in the South Mall Campus Master Plan Public Scoping Report (June 2015).
March 30, 2015	Information from the previous meeting was reiterated, including the draft APE and preliminary identification of historic properties. NCPC and SI also outlined the roles and responsibility of the consulting parties and the anticipated Section 106 consultation schedule. SI presented the Master Plan objectives, including: visitor experience, education programs, museum programs, garden programs, collections, special events and retail, historic preservation, building systems, sustainability, loading and service, safety, security, and urban design. Comments provided by the Consulting Parties included preservation of the Campus's historic buildings, public outreach, the availability of technical reports, and seismic protection of the Castle. The presentation was followed by a tour of the South Mall Campus.
June 9, 2015	Meeting focused on a more detailed presentation of the range of alternatives being considered under the EIS and Section 106 processes. It also included a description of alternatives that had been considered but dismissed from further environmental review under the EIS. SI reiterated the historic properties within the Campus area and also provided additional information on the goals and objectives that contributed to the development of the Master Plan alternatives. Consulting Parties asked questions for additional information and clarification on the range of alternatives under consideration
October 7, 2015	Meeting focused on the treatment of the Castle, including historic preservation, seismic protection, and programming needs. SI presented a comparative study of major museum complexes worldwide to benchmark the programmatic needs of the South Mall Campus. SI described the historic development of the Castle and how its varying degrees of integrity would correspond to treatment approaches in the building. SI's consulting structural engineer provided a detailed presentation of the seismic vulnerabilities of the Castle and potential mitigation options, including a comparison of conventional structural reinforcement versus base isolation. The meeting concluded with a recap of the Master Plan alternatives under consideration, illustrating specifically how closely each alternative met its programmatic area



Smithsonian Institution
South Mall Campus Master Plan

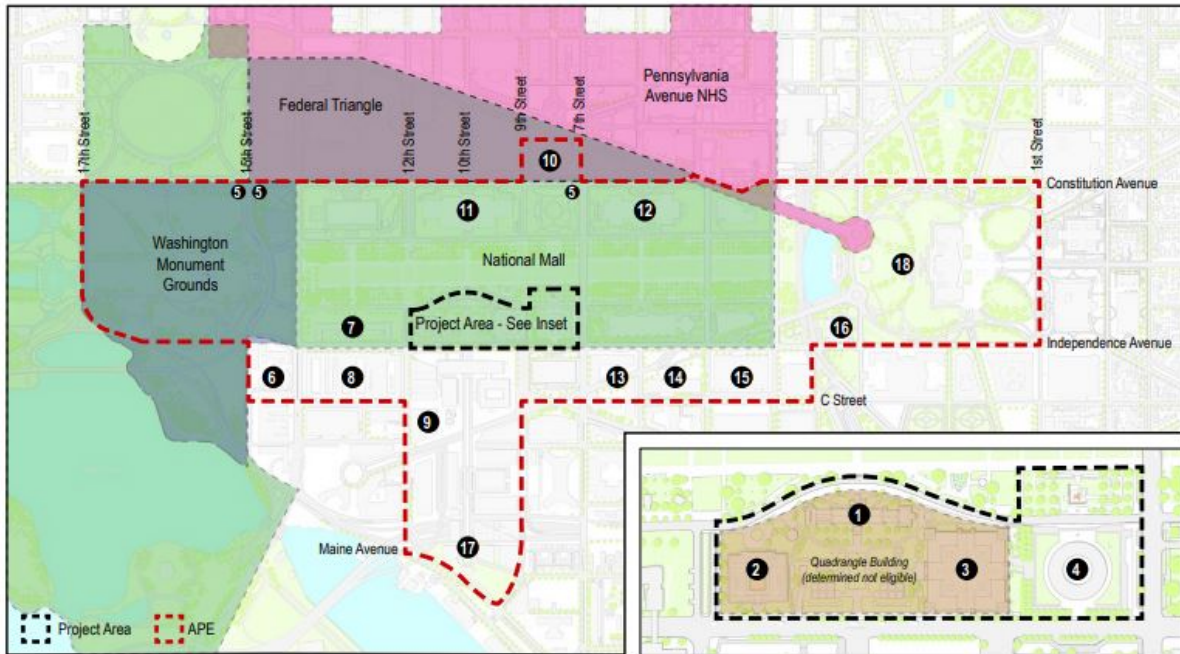
	needs. Consulting Parties' comments focused on the Castle seismic protection and base isolation.
January 27, 2016	Meeting focused on the findings of the CLR being prepared for the South Mall Campus. The report was developed to document the history of the Campus and to inform both long-term and immediate treatment options. Smithsonian Gardens also presented its ongoing mission and goals as well as its objectives for the South Mall Campus Master Plan. During the presentation, SI identified several major periods of development and illustrated those with historic photographs and period plan diagrams. SI also provided an update on the ongoing NEPA process, including loading traffic counts and the Notice of Intent to prepare an EIS. Consulting Parties commented on the scope and purpose of the CLR and the maintenance of Smithsonian Gardens, and additional clarification regarding the development of alternatives and the Master Plan and EIS processes.
April 13, 2016	Meeting provided detailed, revised alternatives based on Consulting Party comments and additional material gathered to inform the Master Plan. SI also presented an update to the inventory of historic properties within the APE and project area. Consulting Parties discussed details of the master plan alternatives and how comments would be addressed.
October 26, 2016	To aid in the evaluation of the undertaking's effects on historic properties, SI completed Determinations of Eligibility for listing the Hirshhorn Museum and Sculpture Garden and the Quadrangle Building in the NRHP. The former determined that the Hirshhorn Museum was eligible for National Register listing; the latter determined that the Quadrangle Building and landscape were not individually eligible for National Register listing at this time. SI presented the findings of these reports and the research and evaluation process that led to their conclusions. SI also presented a consolidated matrix of historic resources within the APE. Consulting Parties responded to the findings presented by SI and discussed implications for the Master Plan alternatives.
May 3, 2017	SI presented Alternatives E and F, developed to respond to Consulting Party comments. SI determined the design of Alternative E to be unsuccessful, and dismissed it from evaluation in the EIS. Alternative F was presented in greater detail and carried forward for analysis in the EIS. SI also presented a general update to alternatives presented previously.
July 26, 2017	Meeting was to present and discuss potential adverse effects on historic resources across the Master Plan alternatives. Consulting Parties offered responses to these findings and discussed approaches to avoid or minimize potential adverse effects. SI also stated that it would dismiss Alternative A from further analysis in the EIS.
December 11 and 18, 2017	Public meetings held to discuss the draft Environmental Impact Statement. The content of the meetings was identical, held at different times of day to accommodate schedules for public participation. Interested parties submitted oral comments at the meetings, and the record was open for submission of written comments until January 16, 2018.
May 9, 2018	Meeting to discuss the content of the Programmatic Agreement, and discussion of comments from Consulting Parties.



Smithsonian Institution South Mall Campus Master Plan

Exhibit D – Area of Potential Effects

Area of Potential Effects and Identification of Historic Properties



Within Project Area		Within Area of Potential Effects (APE)	
National Mall		Washington Monument Grounds	11 National Museum of Natural History
Smithsonian Institution Quadrangle		Pennsylvania Avenue NHS	12 National Gallery of Art (West Building)
Plan of the City of Washington		Federal Triangle Historic District	13 Federal Office Building 10B
1 Smithsonian Institution Building	5 Bulfinch Gatehouses and Gateposts	14 Federal Office Building 6	
2 Freer Gallery of Art	6 Auditor's Building Complex	15 Social Security Administration	
3 Arts and Industries Building	7 USDA Administration Building	16 United States Botanic Garden	
4 Hirshhorn Museum and Sculpture Garden	8 USDA South Building	17 Benjamin Banneker Park	
	9 USDA Cotton Annex	18 U.S. Capitol and Grounds	
	10 National Archives		

The historic properties identified in the above maps and tables indicate properties that are individually listed in, or have been determined as eligible for individual listing in, the National Register of Historic Places.



Smithsonian Institution

South Mall Campus Master Plan

1 **Exhibit E – Master Plan Level Assessment of Effects on Historic Resources**

2 The Master Plan Level Assessment of Effects on Historic Resources provides an assessment of the
3 effects on National Register of Historic Places-eligible or National Register of Historic Places-listed
4 properties from the alternatives that were considered for the South Mall Campus Master Plan.

5 The effects analysis is based upon the Section 106 criteria of adverse effect. The effects analysis has
6 been organized by historic properties and actions under each alternative. Direct effects are addressed
7 first, followed by indirect effects.

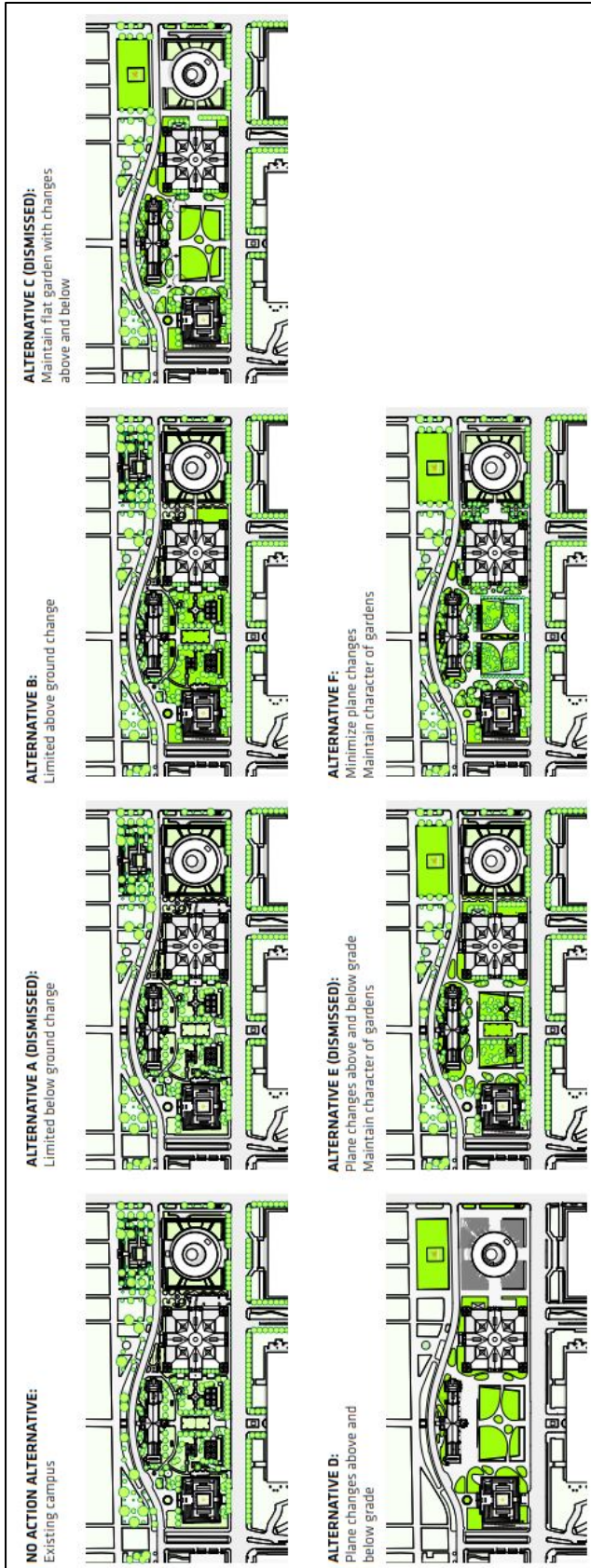
8 In most cases, design details at the master planning level are not sufficiently developed to fully and
9 accurately assess the effect of a specific action. In such cases, the effects will be further addressed at
10 the time of project design in accordance with the Programmatic Agreement. Where known or
11 potential adverse effects have been identified, the Section 106 resolution document will outline
12 treatment strategies to avoid, minimize, or mitigate adverse effects on the historic properties and
13 outline guidelines for addressing unknown effects. Due to the nature of this project as a
14 Master Plan, certain actions have the potential to create adverse effects due to their related or
15 cumulative nature. These related and cumulative effects have been described at the end of this Exhibit.

16
17 The effects analysis has been organized by historic properties and actions under Alternative A, B, D, and
18 F (Alternatives C and E were dismissed from further consideration and were not assessed for effects on
19 historic properties). Potential adverse effects resulting from the No Action Alternative are also
20 described.

21
22



Smithsonian Institution South Mall Campus Master Plan



Master Plan Alternatives Considered.



Smithsonian Institution South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Freer Gallery of Art, DC, NR, Contributing building to Mall HD and Quadrangle HD	Freer Gallery East Accessible Entrance: An existing window on the east side of the Freer Gallery will be lowered to create an accessible entrance from Haupt Garden.	No effect.	Alteration of the east wall will adversely affect the historic window configuration. Adverse effect.	Alteration of the east wall will adversely affect the historic window configuration and diminish the property's integrity of design and materials. Adverse effect.	Alteration of the east wall will adversely affect the historic window configuration and diminish the property's integrity of design and materials. Adverse effect.	Alteration of the east wall will adversely affect the historic window configuration and diminish the property's integrity of design and materials. Adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Adverse effect has been minimized by designing the new entrance to correspond to the existing facade bay configuration and to remove a minimal amount of historic fabric. Interior lobby will be located in a modified area and will not affect significant interior spaces.
	New Loading Ramp: A new loading ramp will be constructed on the west lawn of the Freer Gallery to connect with centralized loading facilities.	No effect.	Existing Quad loading dock would be retained. No effect.	Existing Quad loading dock will be removed and replaced with a new ramp adjacent to the west elevation of the Freer Gallery. Potential adverse effect.	Existing Quad loading dock will be removed and replaced with a new ramp adjacent to the west elevation of the Freer Gallery. Potential adverse effect.	Existing Quad loading dock will be removed and replaced with a new ramp adjacent to the west elevation of the Freer Gallery. Potential adverse effect.	<ul style="list-style-type: none"> Excavation may require structural underpinning to Freer Gallery. Ramp and associated infrastructure has potential to adversely affect the character of the Freer Gallery and diminish its integrity of setting. Effects will be further evaluated at time of project design.
Smithsonian Institution Building "Castle" DC, NR, NHL, Contributing building to Mall HD and Quadrangle HD	Castle Blast Protection: Castle retrofit will include blast resistance to be coordinated with perimeter security elements.	Without treatment, Castle will continue to be vulnerable to potential blast damage. Potential adverse effect.	Blast protection will include hardening and replacement of non-original components, including windows. Project will be designed to avoid effects on historic fabric, if possible. Potential adverse effect.	Blast protection will include hardening and replacement of non-original components, including windows. Project will be designed to avoid effects on historic fabric, if possible. Potential adverse effect.	Blast protection will include hardening and replacement of non-original components, including windows. Project will be designed to avoid effects on historic fabric, if possible. Potential adverse effect.	Blast protection will include hardening and replacement of non-original components, including windows. Project will be designed to avoid effects on historic fabric, if possible. Potential adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Blast protection is consistent with Security Design Criteria for SI Facilities. Blast protection will be coordinated with master plan perimeter security design.
	Castle Base Isolation: Base isolation will include excavation beneath the Castle and introduction of base isolators beneath the existing foundation.	Without treatment, Castle will continue to deteriorate and be vulnerable to potential damage. Potential adverse effect.	Base isolation would be designed and monitored to ensure protection of Castle. Action has potential to adversely effect character of Castle and diminish its integrity of setting. Potential adverse effect.	Base isolation would be designed and monitored to ensure protection of Castle. Action has potential to adversely effect character of Castle and diminish its integrity of setting. Potential adverse effect.	Base isolation would be designed and monitored to ensure protection of Castle. Action has potential to adversely effect character of Castle and diminish its integrity of setting. Potential adverse effect.	Base isolation would be designed and monitored to ensure protection of Castle. Action has potential to adversely effect character of Castle and diminish its integrity of setting. Potential adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Seismic protection is consistent with building code. Base isolation requires a neutral perimeter around base of the Castle. Perimeter buffer will be integrated into the landscape. Consistent with best practices for base isolation, SI will solicit third-party review by qualified engineers to ensure protection of Castle.
	Castle Seismic Bracing: Structural bracing will be added to supplement the Castle's existing structure.	Without treatment, Castle will continue to deteriorate and be vulnerable to potential damage. Potential adverse effect.	Structural bracing may require the removal or modification of historic fabric, with the potential to diminish the Castle's integrity of design, materials, and workmanship. Potential adverse effect.	Structural bracing may require the removal or modification of historic fabric, with the potential to diminish the Castle's integrity of design, materials, and workmanship. Potential adverse effect.	Structural bracing may require the removal or modification of historic fabric, with the potential to diminish the Castle's integrity of design, materials, and workmanship. Potential adverse effect.	Structural bracing may require the removal or modification of historic fabric, with the potential to diminish the Castle's integrity of design, materials, and workmanship. Potential adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Seismic protection is consistent with building code. Structural bracing will focus on the protection of Castle towers and chimneys. Bracing will be limited to building interior and will not be visible from the exterior or significant interior spaces. Consistent with best practices for base isolation, SI will solicit third-party review by qualified engineers to ensure protection of Castle.

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Adverse effect

Potential adverse effect



Smithsonian Institution South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B Direct Effects - Within Project Area	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Smithsonian Institution Building "Castle" DC, NR, MHL, Contributing building to Mall HD and Quadrangle HD	Castle Basement Floor Lowering: In connection with seismic retrofit, the basement floor level will be lowered to create additional headroom for the visitor center and other program uses. Mechanical and other equipment will be removed to expose the historic masonry vaults, piers, and walls.	No effect.	Project requires additional study to determine the historic integrity of Castle basement and effects to masonry vaults, piers, and walls. Altering the proportions of the basement will likely result in an adverse effect. Adverse effect.	Project requires additional study to determine the historic integrity of Castle basement and effects to masonry vaults, piers, and walls. Altering the proportions of the basement will likely result in an adverse effect. Adverse effect.	Project requires additional study to determine the historic integrity of Castle basement and effects to masonry vaults, piers, and walls. Altering the proportions of the basement will likely result in an adverse effect. Adverse effect.	Project requires additional study to determine the historic integrity of Castle basement and effects to masonry vaults, piers, and walls. Altering the proportions of the basement will likely result in an adverse effect. Adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Undertaking will remove incompatible infill construction and allow for the restoration of these historic features. Detailing of historic structural elements will be designed to meet the Secretary of the Interior Standards. Approximately one-third of basement level was previously lowered in connection to Quadrangle and in mechanical and food service spaces.
	Castle Interior Restoration: The ground and upper floors of the Castle will be rehabilitated, with significant interior spaces restored to their period(s) of significance.	Without a coordinated treatment approach, Castle interior and systems will continue to deteriorate. Potential adverse effect.	Restoration is generally expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Restoration is generally expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Restoration is generally expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Restoration is generally expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Undertaking will remove incompatible infill construction and will be designed to meet the Secretary of the Interior Standards. Undertaking will restore primary public interior spaces and will retain historic configuration of east wing and range.
	Castle Sub-Basement Expansion: A new sub-basement will be excavated beneath the existing basement level. Sub-basement will provide loading, utility, and building support. The footprint of the proposed expansion varies by alternative.	No effect.	No sub-basement is proposed. Existing service connection tunnel to the Quad will remain. No effect.	Sub-basement excavation is limited to the east and west Castle ranges and wings. Potential adverse effect.	Sub-basement excavation will include entire Castle and will require extensive structural bracing. Adverse effect.	Sub-basement excavation is limited to the west range and wing. Potential adverse effect.	<ul style="list-style-type: none"> Excavation beneath the Castle is necessary for the functionality of the central delivery of goods, services, handling of trash and recycling, and museum exhibit delivery. Expanded sub-basement area will require additional egress through connecting buildings. Excavation will be monitored to ensure safety of building during implementation.
	Visitor Center Entrance: A new means of entrance and egress from the below-grade Visitor Center is proposed in several alternatives.	No effect.	No new entrance is proposed. Quad pavilions will continue to serve as entrances to below-grade facilities. No effect.	Removal of the Ripley Pavilion would have an adverse effect and may require a new entrance or egress pavilion adjacent to Castle. The size and visibility of the entrance has potential to adversely affect character of Castle and diminish its integrity or setting. Adverse effect.	Below-grade "dip" entrance to Visitor Center will adversely affect character of Castle and diminish its integrity of setting. Adverse effect.	Visitor Center entrance will be provided in below-grade court located to the south of the Castle. The new entry may require removal of historic fabric and the size and visibility of the entrance is likely to adversely affect character of Castle and diminish its integrity of setting. Adverse effect.	<ul style="list-style-type: none"> In Alternative F, the adverse effect of a visible grade change has been avoided or minimized by reducing the size of the entrance, limiting its visibility from the south, and maintaining the existing flat grade of the Haupt Garden.

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Potential adverse effect

Adverse effect



Smithsonian Institution South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Direct Effects - Within Project Area							
Arts & Industries Building (AIB) DC, NR, NHL Contributing building to Mall HD and Quadrangle HD	Reopen AIB for Public Circulation: The non-historic east security door will be removed and AIB will be opened to allow interior east-west circulation.	No effect.	No alterations are proposed. No effect.	Returning the east door to use will not adversely effect the character or integrity of AIB. No adverse effect.	Returning the east door to use will not adversely effect the character or integrity of AIB. No adverse effect.	Returning the east door to use will not adversely effect the character or integrity of AIB. No adverse effect.	<ul style="list-style-type: none"> Removing the non-historic security door will allow the extant reproduction door to be visible. While a permanent program and funding are developed, SI will continue to utilize AIB for public exhibitions, educational programming and special events. Undertaking will be designed to meet the Secretary of the Interior Standards. For any permanent use modifications, the Undertaking will restore primary public interior spaces and will retain the historic open configuration of the interior to the maximum extent feasible. Historic floorplan and vaulted interior spaces are ideal for flexible programming and special events.
	AIB Interior: Facilitated interim and/or permanent use of the AIB for public exhibitions, educational programming and special events. AIB may house a temporary Visitor's Center during the Castle restoration.	No effect.	Modifications expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Modifications expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Modifications expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	Modifications expected to be beneficial but plans have not yet been sufficiently developed to make a determination of effect. Effects to be determined.	<ul style="list-style-type: none"> Undertaking will be designed to meet the Secretary of the Interior Standards. For any permanent use modifications, the Undertaking will restore primary public interior spaces and will retain the historic open configuration of the interior to the maximum extent feasible. Historic floorplan and vaulted interior spaces are ideal for flexible programming and special events.
	Remove Surface Parking Lot and Expand Ripley Garden: The non-historic parking lot to the east of AIB will be removed, allowing for the expansion of the adjacent Ripley Garden.	No effect.	No alterations are proposed. No effect.	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. No adverse effect.	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. No adverse effect.	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. No adverse effect.	<ul style="list-style-type: none"> In Alternatives B-F, the expanded garden will maintain the character and setting of the existing Ripley Garden.
	Central Utility Plant: Unexcavated areas adjacent to the Quad will be excavated to create a central utility plant for the campus. The location and extent of excavation varies by alternative.	No effect.	No excavation or utility/loading connection are proposed. No effect.	Excavation will require structural underpinning to be performed on west side of AIB foundations. A1-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character and setting of AIB. Potential adverse effect.	Excavation will require structural underpinning to be performed on west side of AIB foundations. A1-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character and setting of AIB. Potential adverse effect.	Excavation will require structural underpinning to be performed on west side of AIB foundations. A1-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character and setting of AIB. Potential adverse effect.	<ul style="list-style-type: none"> Excavation may require structural underpinning to AIB. Excavation will be monitored to ensure safety of AIB during implementation. Potential visual effect resulting from at-grade utility plant infrastructure will be minimized by integrating these features into the landscape and building design.
							<div>Potential adverse effect</div> <div>Adverse effect</div>

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South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B Direct Effects - Within Project Area	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Hirshhorn Museum & Sculpture Garden Determined eligible for NR Contributing building to Mall HD	Hirshhorn Plaza Walls: Portions of the Plaza walls will be removed to allow a direct pedestrian connection to AIB and the Ripley Garden.	No effect.	No alterations are proposed. No effect.	Small opening will be inserted on the west Plaza wall. Adverse effect.	Portions of the north, west, and east Plaza walls will be removed. Adverse effect.	Small opening will be inserted on the west Plaza wall. Adverse effect.	<ul style="list-style-type: none"> Opening improves east-west circulation across the campus by providing a direct pedestrian link between the AIB, Ripley Garden, and Hirshhorn Plaza. Adverse effect in Alternatives B and F has been minimized by limiting the opening to the dimension of the proposed east-west pedestrian link.
	Hirshhorn Plaza Tunnel: A direct pedestrian connection between the Hirshhorn Plaza and Sculpture Garden beneath Jefferson Drive will be restored or replaced. Degree of intervention varies by alternative.	No effect.	No alterations are proposed. No effect.	Tunnel would be reopened and restored to its original configuration. No adverse effect.	Tunnel will be reopened, expanded, and reconfigured, resulting in a loss of historic fabric. Adverse effect.	Tunnel will be reopened, expanded, and reconfigured, resulting in a loss of historic fabric. Adverse effect.	<ul style="list-style-type: none"> In Alternatives B-F, the existing education facility will be relocated. The Tunnel is an original feature of the Hirshhorn site. It is currently enclosed and infilled to serve as an education facility.
	Hirshhorn Building Renovation: Hirshhorn Building and Plaza will be renovated.	Without treatment, building envelope and site will continue to deteriorate. Potential adverse effect.	Renovation will not affect character or integrity of the building or site. No adverse effect.	Renovation will not affect character or integrity of the building or site. No adverse effect.	Renovation will not affect character or integrity of the building or site. No adverse effect.	Renovation will not affect character or integrity of the building or site. No adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Adverse effects caused by the reconfiguration of the Sculpture Garden in Alternatives D and F are addressed separately. Undertaking will be designed to meet the Secretary of the Interior Standards. Any interim changes to the Plaza or Sculpture Garden will undergo separate review.
	Hirshhorn Sculpture Garden Walls: Perimeter Sculpture Garden walls will be restored.	No effect.	Walls will be repaired in kind. No adverse effect.	Walls will be repaired in kind. No adverse effect.	Walls will be repaired in kind. No adverse effect.	Walls will be repaired in kind. No adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. Repairs to walls are necessary to prevent further deterioration of their condition and appearance.
Quadrangle Building Contributing building to: National Mall HD DC, NR	New Galleries Beneath Sculpture Garden: In Alternatives D and F, the interior walls of the Sculpture Garden will be reconfigured to allow for high-ceilinged galleries below.	No effect.	Modest interim modifications without changes to grade may be considered. Potential adverse effect.	Modest interim modifications without changes to grade may be considered. Potential adverse effect.	Existing Sculpture Garden elements will be removed and replaced with a new Sculpture Garden and galleries below. Adverse effect.	Existing Sculpture Garden elements will be removed and replaced with a new Sculpture Garden and galleries below. Adverse effect.	<ul style="list-style-type: none"> The new Sculpture Garden proposed in Alternatives D and F will remain below the prevailing grade of the Mall. The majority of the existing perimeter walls will be retained. Any interim changes to the Sculpture Garden will undergo separate review.
	Remove Loading Ramp/ Expand Garden: The existing loading ramp will be removed and the Haupt Garden will be expanded into this area.	No effect.	Existing loading ramp will remain. No effect.	Loading ramp will be removed and garden will be expanded into this area. No adverse effect.	Loading ramp will be removed and garden will be expanded into this area. No adverse effect.	Loading ramp will be removed and garden will be expanded into this area. No adverse effect.	<ul style="list-style-type: none"> Removal of the loading dock in Alternatives B-F will not adversely affect the contributing Quad building.

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Potential adverse effect

Adverse effect



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South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Direct Effects - Within Project Area							
Quadrangle Building Contributing Building to: National Mall HD DC, NR	Ripley Pavilion: The Ripley Pavilion will be removed to allow construction of a consolidated loading facility.	No effect.	Ripley Pavilion will remain. No effect.	Removal of the Ripley Pavilion will adversely affect the contributing Quad building. Adverse Effect.	Removal of the Ripley Pavilion will adversely affect the contributing Quad building. Adverse Effect.	Removal of the Ripley Pavilion will adversely affect the contributing Quad building. Adverse Effect.	<ul style="list-style-type: none">Removal of the Ripley Pavilion in Alternatives B-F will restore views between the Quad and Mall and south of the Castle to the Washington Monument.A new exit will be constructed to the south of the Castle to meet egress requirements.
	Replace Quadrangle Roof Membrane: Quadrangle roof membrane will be replaced.	Without treatment, Quad roof membrane will continue to deteriorate, posing danger to building and collections. Potential adverse effect.	Replacement of the roof membrane will not adversely effect the contributing Quad building. No adverse effect.	Replacement of the roof membrane will not adversely effect the contributing Quad building. No adverse effect.	Replacement of the roof membrane will not adversely effect the contributing Quad building. No adverse effect.	Replacement of the roof membrane will not adversely effect the contributing Quad building. No adverse effect.	<ul style="list-style-type: none">Undertaking is common to all action alternatives.Replacement of roof membrane is necessary to protect Quadrangle and its collections.The reconstruction of the Haupt Garden is addressed separately, and has a greater potential to adversely affect this resource.
	Reconfigure Haupt Garden: In coordination with roof membrane replacement, the Haupt Garden will be reconfigured to accommodate new Quad museum and Visitor Center access. Degree of intervention varies by alternative.	No effect.	Haupt Garden features will be replaced in kind following roof membrane replacement. No adverse effect.	Haupt Garden features will be replaced in kind following roof membrane replacement. No adverse effect.	Haupt Garden will be substantially reconfigured. Removal of Haupt Garden features will adversely affect character and integrity of the contributing Quad building. Adverse effect.	Haupt Garden will be reconfigured, although certain elements will be replaced in kind. Removal of Haupt Garden features will adversely affect character and integrity of the contributing Quad building. Adverse effect.	<ul style="list-style-type: none">Adverse effect has been minimized in Alternative F by retaining the existing grade and garden-like quality of the Haupt Garden and by retaining certain garden features.
	Central Utility Plant: Unexcavated areas adjacent to the Quad will be excavated to create a central utility plant for the campus. The location and extent of excavation varies by alternative.	No effect.	No excavation or central utility plan is proposed. No effect.	In Alternative B, the plant will be located in the unexcavated area between the Quad and AIB. At-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character of Quadrangle and Haupt Garden. Potential adverse effect.	In Alternative D, the plant will be located in the sub-basement beneath the Castle. At-grade ventilation and access infrastructure associated with utility plant will adversely affect the character of the Quadrangle, Castle, and Haupt Garden. Adverse effect.	In Alternative F, the plant will be located in the unexcavated area between the Quad and AIB. At-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character of Quadrangle and Haupt Garden. Potential adverse effect.	<ul style="list-style-type: none">Excavation will require structural underpinning.Potential visual effect resulting from at-grade utility plant infrastructure will be minimized by integrating these features into the landscape and building design.

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Potential adverse effect

Adverse effect

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Potential adverse effect

Adverse effect



Smithsonian Institution South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Direct Effects - Within Project Area							
Quadrangle Building Contributing building to: National Mall HD DC, NR	Quad Museum Pavilions: The pavilions will be reconfigured or replaced with new pavilions. Degree of intervention varies by alternative.	No effect.	No reconfiguration of the museum pavilions is proposed. No effect.	Museum entrances will be reoriented to existing glass infilled openings in the north walls of the museum pavilions. No historic fabric to be removed. No adverse effect.	Museum pavilions will be removed and replaced with new pavilions further to the north. Removal of pavilions will adversely affect the contributing Quad building and alters setting of the Castle and other historic buildings. Adverse effect.	Museum pavilions will be removed and replaced with new pavilions further to the north. Removal of pavilions will adversely affect the contributing Quad building and alters setting of the Castle and other historic buildings. Adverse effect.	<ul style="list-style-type: none"> In Alternative B, only the removal of glazing infill is required to accommodate new entrances. In Alternatives D and F, relocation of the museum pavilions will allow for greater visibility from the Mall and significant improvement to the quality of the below-grade museum and circulation space. The existing above-grade egress and skylight structures will also be reconfigured in Alternatives D and F. Effects of the contemporary character of the new museum pavilions will be evaluated at time of design.
	Quad Skylights: In Alternatives D and F, existing skylights will be removed and new skylights will be integrated into the Haupt Garden design to provide interior daylighting for the Quad museums and Visitor Center.	No effect.	No skylight alterations are proposed. No effect.	No skylight alterations are proposed. No effect.	Removal of contributing skylight features and installation of larger skylights will adversely affect the contributing Quad building and alters setting of the Castle and other historic buildings. Adverse effect.	Removal of contributing skylight features and installation of larger skylights will adversely affect the contributing Quad building and alters setting of the Castle and other historic buildings. Adverse effect.	<ul style="list-style-type: none"> In Alternatives D and F, adverse effects will be minimized by integrating these features into the landscape and building design.
National Mall HD DC, NR	Perimeter Security: Perimeter security elements will be installed around the South Mall Campus.	No effect.	Perimeter security has the potential to adversely affect the character of the Mall, including the relationship of buildings to the surrounding landscapes. Potential adverse effect.	Perimeter security has the potential to adversely affect the character of the Mall, including the relationship of buildings to the surrounding landscapes. Potential adverse effect.	Perimeter security has the potential to adversely affect the character of the Mall, including the relationship of buildings to the surrounding landscapes. Potential adverse effect.	Perimeter security has the potential to adversely affect the character of the Mall, including the relationship of buildings to the surrounding landscapes. Potential adverse effect.	<ul style="list-style-type: none"> Undertaking is common to all action alternatives. NCPG granted preliminary approval for a Mall-wide building perimeter security for SI museums in 2004. In the Master Plan, adverse effects were avoided by removing alterations to Jefferson Drive and Independence Avenue from all alternatives. Perimeter security elements will be integrated into hardened landscape features to the greatest degree possible.
	All Plan Components: The Master Plan proposes no major alterations to contributing streets and avenues within the project area.	No effect.	No adverse effect.	No adverse effect.	No adverse effect.	No adverse effect.	<ul style="list-style-type: none"> Independence Avenue, Twelfth Street, Seventh Street, and Jefferson Drive are contributing elements to the Plan of the City of Washington. Adverse effects were avoided by removing alterations to Jefferson Drive and Independence Avenue from all Alternatives.
Potential Archaeological Resources	Plan Excavation: Excavation is proposed for new loading, sub-basement, and utility plant facilities. Degree of intervention varies by alternative.	No effect.	No excavation is proposed. No effect.	Areas of excavation have the potential to impact previously undiscovered archaeological resources. Effect to be determined.	Areas of excavation have the potential to impact previously undiscovered archaeological resources. Effect to be determined.	Areas of excavation have the potential to impact previously undiscovered archaeological resources. Effect to be determined.	<ul style="list-style-type: none"> The site has been extensively disturbed and has minimal potential for archaeological resources. Programmatic Agreement will include stipulations for previously undiscovered archaeological resources.

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Potential adverse effect

Adverse effect



Smithsonian Institution South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B Indirect Effects - Within Area of Potential Effects	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Plan of the City of Washington (L'Enfant Plan) DC, NR	Grade Changes Across Project Area: Existing grades in the Hirshhorn Sculpture Garden and Haupt Garden will be modified to varying degrees across the alternatives.	No effect.	No major above-grade changes are proposed. No adverse effect.	No major above-grade changes are proposed. No adverse effect.	New Quad museum pavilions, sunken Visitor Center entrance, and modified Sculpture Garden will not affect contributing views. No adverse effect.	New Quad museum pavilions and modified Sculpture Garden will not affect contributing views. No adverse effect.	<ul style="list-style-type: none"> The new Sculpture Garden proposed in Alternatives D and F will remain below grade of Mail.
National Mall HD DC, NR	Hirshhorn Sculpture Garden Alterations: In Alternatives D-F, portions of the Hirshhorn Sculpture Garden will be raised to create high-ceilinged galleries below.	No effect.	No substantial alterations to the Sculpture Garden are proposed. No adverse effect.	No substantial alterations to the Sculpture Garden are proposed. No adverse effect.	Modifying the Sculpture Garden has the potential to affect the east-west Mail viewshed. Potential adverse effect.	Modifying the Sculpture Garden has the potential to affect the east-west Mail viewshed. Potential adverse effect.	<ul style="list-style-type: none"> Contributing views were identified in the amended National Mall National Register Nomination. The new Sculpture Garden proposed in Alternatives D and F will remain below grade of Mail to minimize the potential adverse effect. Effects will be further evaluated at time of project design, to assess the visibility of the proposed changes.
National Mall HD DC, NR	Remove Loading Ramp/Expand Garden: The existing loading ramp will be removed and a new ramp installed adjacent to the Freer Gallery.	No effect.	Existing Quad loading dock would be retained. No effect.	The new loading dock ramp will be only minimally visible from the Mail. No adverse effect.	The new loading dock ramp will be only minimally visible from the Mail. No adverse effect.	The new loading dock ramp will be only minimally visible from the Mail. No adverse effect.	<ul style="list-style-type: none"> Beyond the potential direct effects to the contributing Freer Gallery described above, there will be no adverse effects on the Mail HD. The new loading ramp has no potential to alter the principal, east-west Mail viewshed.
Washington Monument and Grounds HD DC, NR	Quad Museum Pavilions: The pavilions will be reconfigured or replaced with new pavilions. Degree of intervention varies by alternative.	No effect.	No reconfiguration of the museum pavilions is proposed. No effect.	Only a minor reconfiguration of the museum pavilions is proposed. No adverse effect.	Replacement of these pavilions will not negatively affect contributing historic views within the Mail. No adverse effect.	Replacement of these pavilions will not negatively affect contributing historic views within the Mail. No adverse effect.	<ul style="list-style-type: none"> Contributing views were identified in the amended National Mall National Register Nomination.
Washington Monument and Grounds HD DC, NR	Grade Changes Across Project Area: Existing grades in the Hirshhorn Sculpture Garden and Haupt Garden will be modified to varying degrees across the alternatives.	No effect.	No major above-grade changes are proposed. No adverse effect.	Alternative B proposes limited above-ground changes. No adverse effect.	Alternative D proposes grade changes in the Haupt Garden and a higher elevation for the Sculpture Garden. Changes will be minimally visible from the Monument Grounds. No adverse effect.	Alternative F proposes a higher elevation for the Sculpture Garden. Changes will be minimally visible from the Monument Grounds. No adverse effect.	<ul style="list-style-type: none"> In all action alternatives, the removal of the Ripley Pavilion will restore the viewshed between the Monument and South Yard. In all action alternatives, the loading ramp adjacent to the Freer Gallery will be minimally visible from the Monument Grounds.
Federal Triangle HD DC, DOE Pennsylvania Avenue NHS DC, NR	All Plan Components	No effect.	No major above-grade changes are proposed. No adverse effect.	Projects proposed under all alternatives will be minimally visible and have no potential to adversely affect surrounding historic resources. No adverse effect.	Projects proposed under all alternatives will be minimally visible and have no potential to adversely affect surrounding historic resources. No adverse effect.	Projects proposed under all alternatives will be minimally visible and have no potential to adversely affect surrounding historic resources. No adverse effect.	<ul style="list-style-type: none"> A small portion of the APE overlaps with these historic districts, drawn to incorporate the Ninth Street viewshed.

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Potential adverse effect

Adverse effect



Smithsonian Institution

South Mall Campus Master Plan

Resource	Feature/Action	NO ACTION	ALTERNATIVE A	Indirect Effects - Within Area of Potential Effects			ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
Individually Designated Historic Properties See APE for complete list	All Plan Components	No effect.	Projects proposed will be minimally visible and have no potential to adversely affect surrounding historic resources. No adverse effect.	Visibility of the proposed alterations under will be determined at the time of the project. Potential adverse effect.	Visibility of the proposed alterations under will be determined at the time of the project. Potential adverse effect.	Visibility of the proposed alterations under will be determined at the time of the project. Potential adverse effect.			<ul style="list-style-type: none">Effects will be further evaluated at time of project design, to assess the visibility of the proposed changes from these locations. There is a limited potential for adverse effects to result.

Potential adverse effect

Adverse effect

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Smithsonian Institution *South Mall Campus Master Plan*

1 Cumulative and Related Effects

2 NHPA Section 106 implementing regulations require agencies to consider the cumulative effects on
3 their undertakings on historic properties. When assessed individually, some of the above-described
4 actions may have a limited potential to adversely affect historic properties. However, when assessed as
5 connected or interrelated projects, these cumulative effects have the potential to rise to the level of
6 adverse under Section 106. Furthermore, many of these actions, such as restoring the public interior
7 spaces of the Castle, are intended to counter past and reasonably foreseeable future actions and/or
8 events. This narrative includes a discussion of those past and future actions.

9 In most cases, these cumulative effects are common to all action alternatives. Therefore, they have been
10 organized by historic property, rather than by alternative. This assessment has identified no cumulative
11 effects to properties outside the project area; therefore, they have been excluded from this narrative.

12 Freer Gallery of Art

13 No cumulative adverse effects have been identified on the Freer Gallery.

15 Smithsonian Institution Building “Castle”

16 Under all action alternatives, the degree of change proposed for the Castle has the potential to
17 generate cumulative adverse effects on this property.

18 Throughout the twentieth century, alterations to the Castle have resulted in a diminished degree of
19 integrity to its significant interior spaces. Circa 1940, several bays on the east and west sides of the
20 Lower Main Hall (Great Hall) were infilled with partition walls, reducing the original length of that space
21 by approximately one-third. The enclosed areas behind these
22 partitions were subsequently modified in 1987 to accommodate restrooms, offices, and a café.

23 In the Upper Main Hall, the installation of the Woodrow Wilson Center circa 1968 subdivided this room
24 both horizontally and vertically, creating an additional floor and a warren of offices and corridors in the
25 formerly open space. On the basement floor, infill construction—including extensive mechanical
26 equipment, ducts, and pipes—completed throughout the late nineteenth to late twentieth centuries has
27 obscured the historic masonry piers and vaults. Cumulatively, these alterations have diminished the
28 Castle’s integrity of design, feeling, workmanship, and materials, and feeling, resulting in an adverse
29 effect.

30 In 2011, an earthquake originating in Mineral, Virginia resulted in damage to buildings throughout
31 Washington, including on the Castle’s chimneys and towers, demonstrating the building’s susceptibility
32 to potential future damage. Furthermore, the lack of adequate perimeter security and blast protection
33 for the Castle creates a risk for future potential damage.

34 The South Mall Campus Master Plan seeks to address the deficiencies in the Castle’s historic character
35 and structural integrity through a coordinated expansion, rehabilitation, and structural and blast
36 upgrade. All action alternatives propose extensive excavation to create a below- grade Visitor Center
37 beneath and adjacent to the Castle basement and to allow for the installation of a base isolation
38 system. The sub-basement expansion will accommodate visitor amenities in addition to mechanical
39 equipment and centralized loading. The relocation of these systems and program elements will allow
40 mechanical equipment and infill construction



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to be removed from the historic spaces above, allowing for the restoration of the Lower and Upper Main Halls. The basement floor will be lowered throughout, partitions and equipment removed, and the masonry vaults and piers restored.

In all action alternatives, the degree of change proposed for the Castle— including interior restoration and rehabilitation, blast protection, base isolation, seismic bracing, basement expansion, and sub-basement excavation—has the potential to generate cumulative adverse effects on this property, and by association on the National Mall Historic District (to which the Castle is a contributing property). The addition of a Visitor Center ingress or egress and new museum pavilions to the south of the Castle also have the potential to diminish the Castle’s integrity of setting. However, these cumulative adverse effects could be viewed as balanced by the beneficial effects of the Castle interior restoration and structural upgrade, which ensures long-term preservation of the building. The proposed changes also avoid more impactful alterations to the Castle, including a potential above-grade exterior addition.

To minimize or avoid cumulative adverse effects at the time of project implementation, the Castle treatment must be carefully designed and implemented to meet or exceed historic preservation standards for the treatment of historic properties. Implementation of the Castle restoration under the Master Plan will allow SI to better utilize this National Historic Landmark and reallocate interior spaces to public use.

Arts and Industries Building

No cumulative adverse effects have been identified on AIB.

Hirshhorn Museum and Sculpture Garden

Under Alternatives D and F, the greater degree of change proposed for the Hirshhorn Museum and Sculpture Garden has the potential to generate cumulative adverse effects on this property. Two major landscape projects in the twentieth century altered the character of the Hirshhorn Plaza and Sculpture Garden. In the Sculpture Garden, a landscape rehabilitation project completed between 1977 and 1981 improved the accessibility and environmental hospitableness of the landscape. Between 1989 and 1993, Smithsonian rehabilitated the Plaza to replace the paving, cover over the original Tunnel entrance, and introduce mostly new plant material. Because both of these projects fell outside the period of significance for this property, the Determination of Eligibility for the Hirshhorn Museum and Sculpture Garden found them to be non-contributing, yet compatible, additions to the property. Therefore, any alterations to these specific elements do not represent an adverse effect unless they also alter the significant contributing features of the Sculpture Garden.

The additional changes proposed to contributing features of the site—including the removal or alteration of portions of the Plaza walls, alteration of the elevation of the Sculpture Garden to create gallery space below, and reopening and alteration of the Tunnel—have the potential to create cumulative adverse effects on this property, and by association on the National Mall Historic District (to which the Hirshhorn is a contributing property). The adverse effects could be viewed as balanced by the cumulative beneficial effects of restoring the Sculpture Garden perimeter walls and rehabilitating the Hirshhorn Museum building. These effects can be further avoided or minimized by designing and implementing these projects to meet historic preservation standards for the treatment of historic properties.



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Quadrangle

The Quadrangle is a contributing building to the National Mall Historic District. Under Alternatives D and F, the greater degree of change proposed for above-grade Quadrangle Building features and the Haupt Garden has the potential to generate cumulative adverse effects on this property. These related actions include the replacement of the Quadrangle roof membrane, relocation of the existing loading dock, removal of the Ripley Pavilion, removal and replacement of the museum pavilions, replacement of the skylights and egress stair enclosures, potential construction of a new Visitor Center entrance near the Castle, and reconfiguration of the Haupt Garden and its associated features—will create a cumulative adverse effect on this property, and by association on the National Mall Historic District.

Alternative F, which maintains the flat grade of the existing Haupt Garden, represents a lesser cumulative effect than Alternative D, which alters the grade by introducing the Visitor Center “dip” entrance to the garden. In both alternatives, the effects of interior illumination from the museum pavilions and skylights has the potential to contribute to the cumulative adverse effect by altering the character and setting of the Mall and contributing buildings in this location.

National Mall Historic District

Under all action alternatives, the greater degree of change proposed for the Haupt Garden, Quadrangle, and Castle has the potential to generate cumulative adverse effects on the historic district, namely the character and setting of the National Mall in this location.

Specifically, this applies to the greater degree of change proposed to contributing buildings within the National Mall and South Mall Campus under Alternatives D and F. These effects will be further assessed at the time of project design. Cumulative effects to individual properties that contribute to the historic district have been described above.

Plan of the City of Washington

No cumulative adverse effects have been identified on the Plan of the City of Washington.



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Exhibit F – Comments from the National Capital Planning Commission



Commission Action

January 4, 2018

PROJECT

South Mall Campus Master Plan

National Mall between 7th Street, Jefferson Drive, 12th Street, and Independence Avenue, SW
Washington, DC

SUBMITTED BY

Smithsonian Institution

REVIEW AUTHORITY

Advisory
per 40 U.S.C. § 8722(a) and (b)(1)

NCPC FILE NUMBER

7630

NCPC MAP FILE NUMBER

1.41(05.00)44050

APPLICANT'S REQUEST

Approval of comments on concept master plan and draft EIS alternatives

ACTION TAKEN

Approved comments on concept master plan and draft EIS alternatives

The Commission:

Supports the goals of the South Mall Campus Master Plan, which address the Smithsonian's need to meet its long-term space requirements and address physical and operational deficiencies across the campus that impact visitor use and experience as well as the Smithsonian's ability to effectively and safely implement its programs.

Notes that pursuant to the National Environmental Policy Act, a Draft Environmental Impact Statement was prepared, and public comments are sought on the alternatives and impacts through January 16, 2018. These comments will inform the Commission's selection of a preferred alternative at the draft master plan review in the spring.

Notes the Master Plan will be implemented over the next 20-30 years; and further, that individual projects contained within the Master Plan will be subject to Commission review and approval at the time when detailed designs are developed.

Requests the Smithsonian Institution prepare a phasing plan to be included in the next draft master plan submission.

Notes a Programmatic Agreement will be prepared pursuant to the National Historic Preservation Act that will describe the process and steps necessary for developing the detailed designs for individual projects at the time of their implementation.

Finds the Master Plan must consider the context of a changing city, particular the SW Ecodistrict and Southwest Waterfront, which will change the character of Independence Avenue and the southern approach to the campus.



Notes that six action alternatives have been developed (A through F). Three alternatives (B, D, and F) have been advanced to the Draft Environmental Impact Statement, in addition to the no action alternative. The Smithsonian Institution, as project owner, has indicated that currently Alternative F best meets their needs.

Finds the action Alternatives (B, D, and F) generally contain a number of common projects, including:

- Renovation and restoration of the Castle;
- Protection of the Castle to address seismic vulnerabilities;
- Removal of the Ripley Pavilion to facilitate views and circulation from the Mall to the center of the campus;
- Consolidation of the Quadrangle and Arts and Industries Building loading areas and parking into a single underground, centralized loading facility to serve the campus;
- Creation of a new underground central utility plant to increase efficiency, sustainability and cost-effectiveness, and help maintain the critical Smithsonian collections;
- Creation of a below-grade visitor center between the Castle and the Quadrangle, and reconfiguration of the Castle basement level as new visitor and interpretive space;
- Addition of a new accessible entrance off the east façade of the Freer Gallery to provide a direct pedestrian connection to the Haupt Garden;
- Retention of the Arts and Industries Building as a flexible space for temporary exhibits and events until such time as a permanent use is identified; and
- Upgrades to underground utilities and perimeter security.

Supports these projects as they help improve visitor service, increase access across the campus, and modernize facilities, while recognizing that program and functionality must be balanced with historic preservation, planning and urban design goals.

Requests the master plan indicate that potential conversion of the Arts and Industries Building into a museum is reasonably foreseeable as a long-term project, regardless of the final occupant; and further, the master plan should describe any implications for such a use.

Regarding the Quadrangle Building and Pavilions:

Notes the Quadrangle Building and pavilions are not eligible for individual listing on the National Register of Historic Places, but are contributing elements to the National Mall Historic District. The Quadrangle Historic District has been identified at the local level.

Finds the current location of the pavilions affects the configuration and functionality of the below-grade Quadrangle interior spaces, as well as views of the Castle from Independence Avenue and 10th Street, SW to the south.

Finds that Alternative B retains the pavilions in their current location, allowing only limited improvement to the functionality of the Quadrangle interior spaces.



Finds that Alternative D and F replace the existing pavilions with smaller pavilions closer to the Castle, allowing for improvements to the functionality of the Quadrangle interior spaces.

Finds that the new pavilion locations would create greater visibility for the Sackler Gallery and National African Art Museum as seen from the National Mall.

Finds that smaller, relocated pavilions could improve views of the Castle and the National Mall from the south, and over time guide visitors from the Southwest Quadrant of the City, including the SW Ecodistrict, the Wharf and Waterfront, which are connected along 10th Street, SW, and are undergoing tremendous growth.

Regarding the Haupt Garden:

Notes the garden forms the roof of the Quadrangle Building and the roof will need to be removed and replaced for maintenance purposes.

Finds the garden provides a view to and setting for the Castle as seen from the south; and further, the intimate character and scale of the existing garden is a beloved component of the South Mall campus, and are an important counterpoint to the scale and openness of the National Mall.

Notes Alternative B would replace the garden in its current configuration and character; Alternative D proposes a large grade change in front of the Castle with a new open configuration and different, park-like character; and Alternative F retains the existing grade and characteristics but reconfigures the garden layout to include two new entrance ramps and skylights.

Does not support the large sloped entry in Alternative D as it would greatly change the character of the garden and the setting of the Castle.

Finds that, while the Master Plan will not include a specific design for the garden, changes in circulation, vertical access and daylighting of the Quadrangle Building will influence the future garden design.

Recommends the design of the future garden balance the desire to maintain a space of intimate character and scale with the need to improve the Quadrangle Building, and desire for greater access and visibility across the campus.

Notes the Smithsonian Institution has publicly committed to maintaining the intimate character and high-quality landscape of the garden as the design is developed.

Regarding the Hirshhorn Museum and Sculpture Garden:

Finds that a modest opening in the western site wall would facilitate pedestrian connections to AIB, while larger alterations of the wall will change the character of the Hirshhorn Museum site.



Supports the reestablishment of the existing below-grade connection between the Museum and Sculpture Garden.

Requests the applicant provide additional details, including sections that describe the proposed expansion of the tunnel and the addition of gallery space below the Sculpture Garden, as shown in Alternatives D and F, so the Commission may better understand the relationship of the proposal to the setting of the National Mall.

Regarding the extent of Castle sub-basement excavation:

Notes that Alternative D includes the greatest amount of excavation beneath the Castle.

Finds the Alternative B and F minimize the amount of sub-basement excavation by accommodating the program elsewhere in the campus.

//Original Signed//

1/5/2018

Julia A. Koster

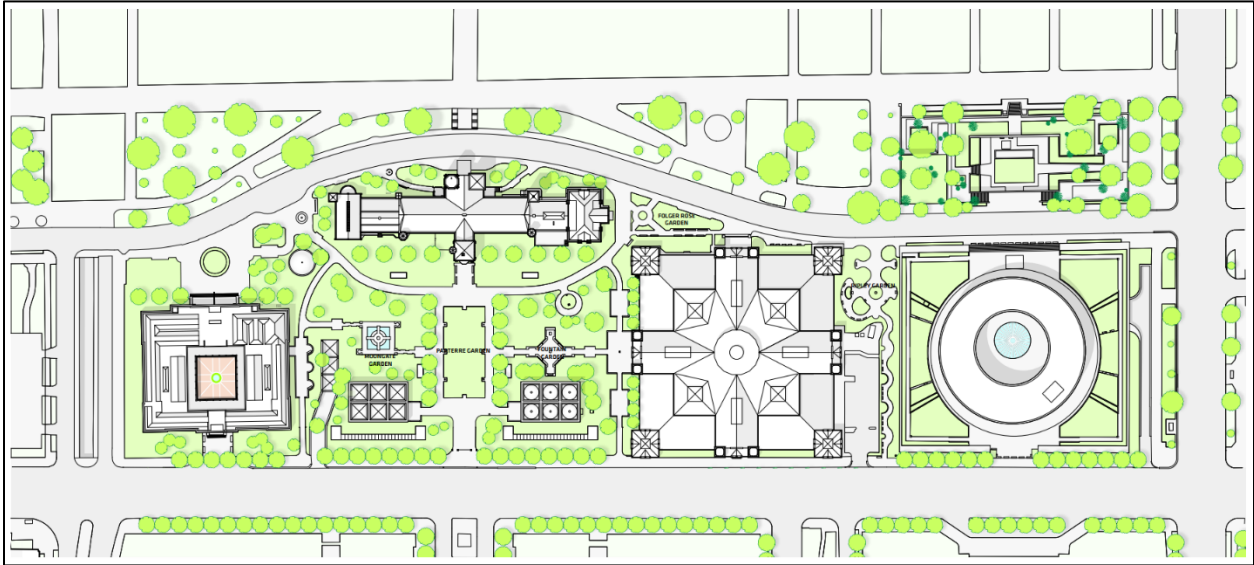
Date

Secretary to the National Capital Planning Commission

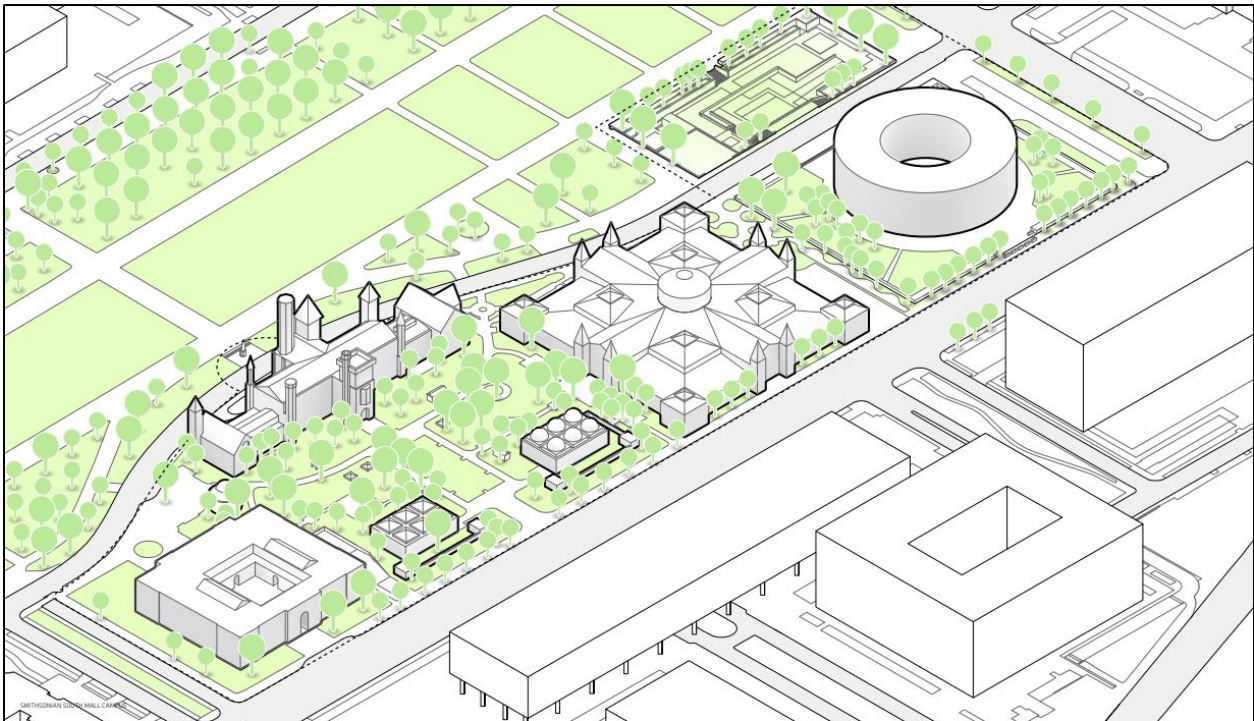


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- 1 **Exhibit G – South Mall Campus Master Plan Alternative F**
- 2 All images created by the Bjarke Ingels Group and SurfaceDesign.
- 3



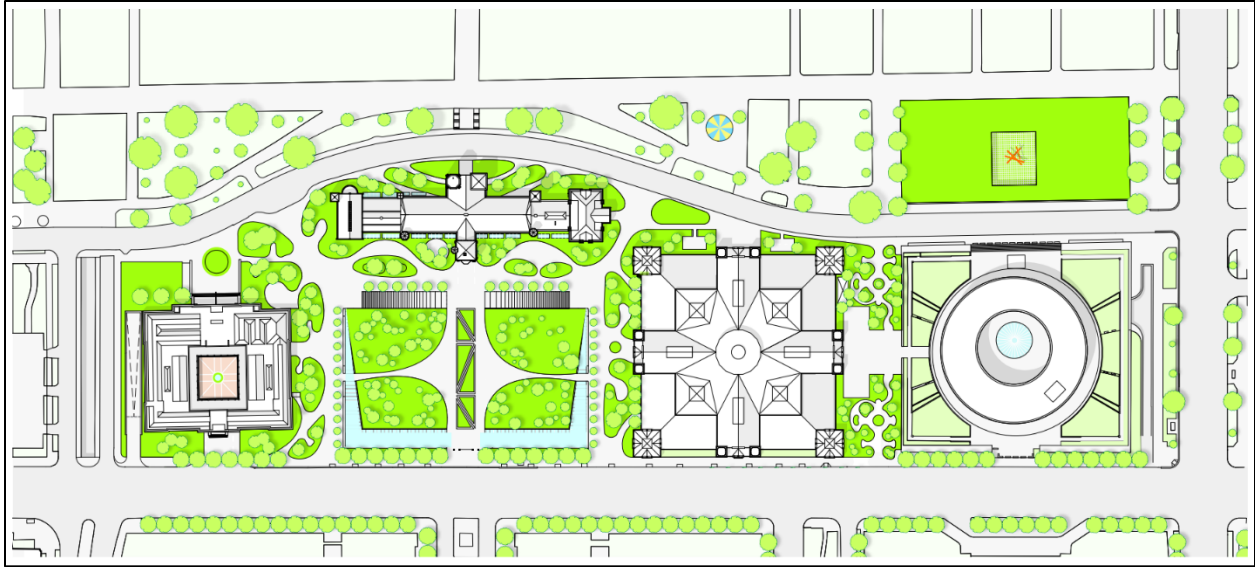
Existing Site Plan.



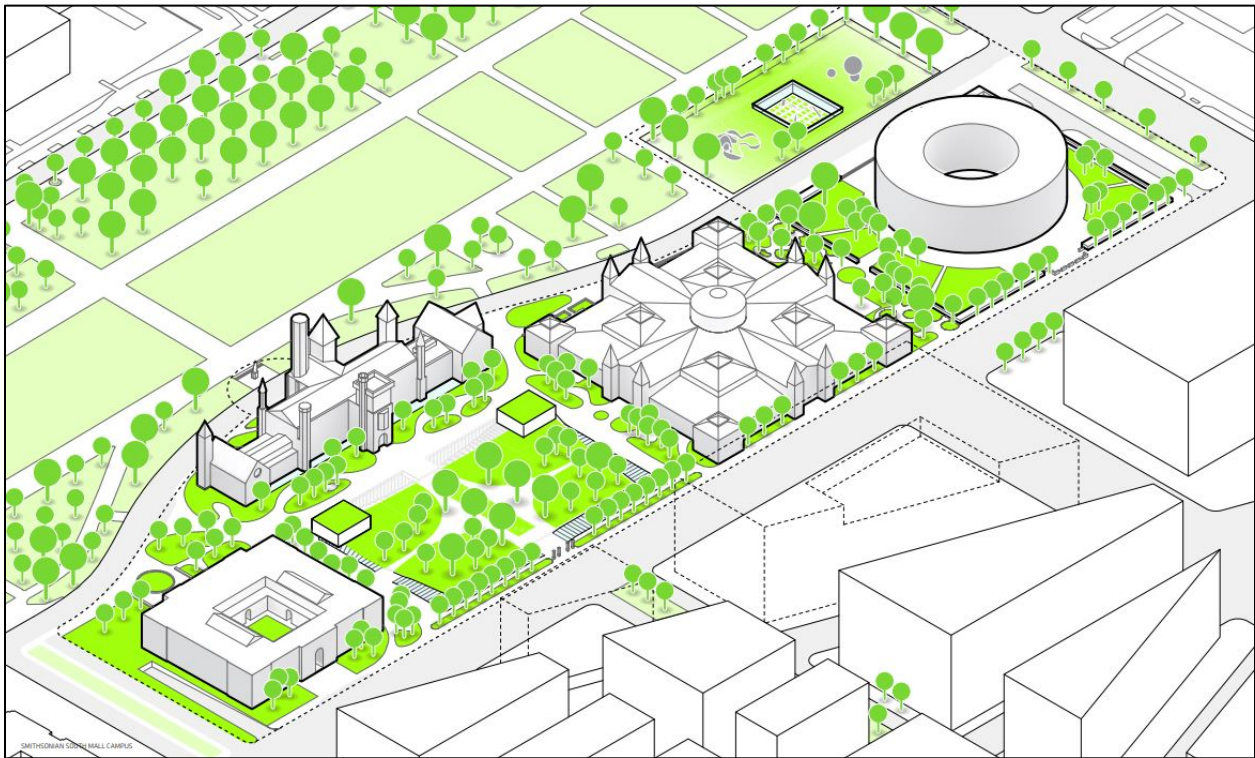
Existing Site, Axonometric View.



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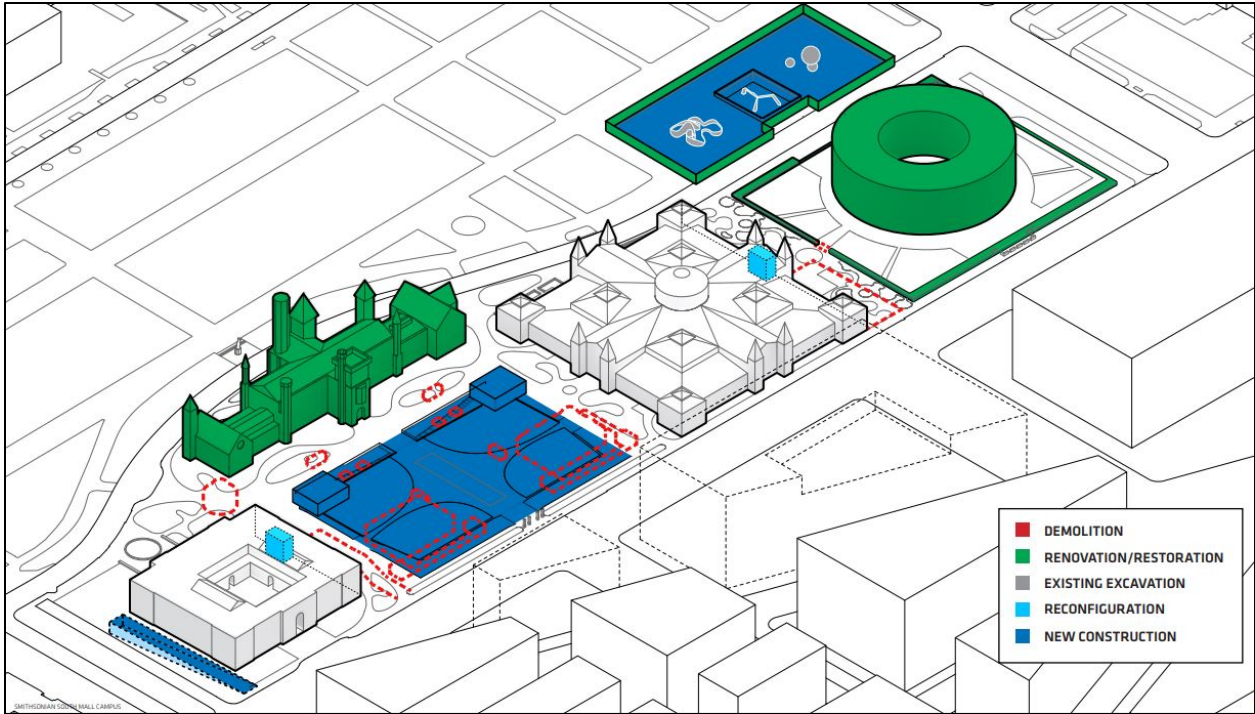
Proposed Site Plan.



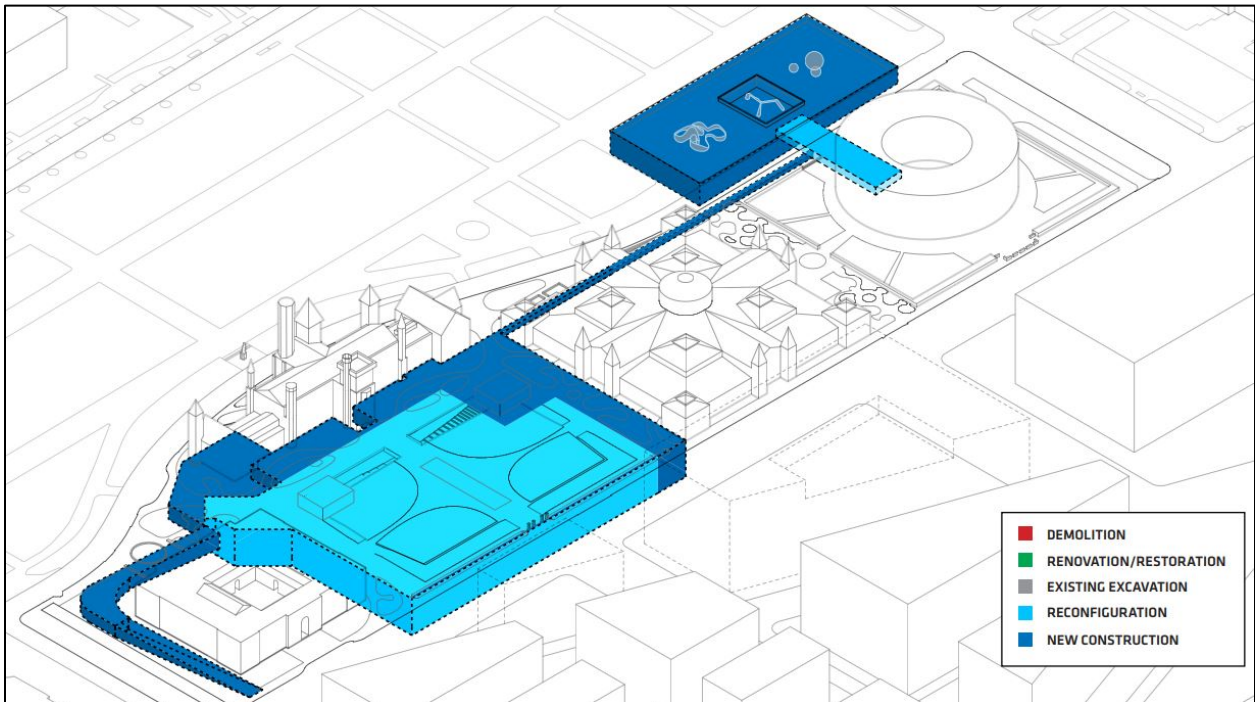
Proposed Site Plan, Axonometric View.



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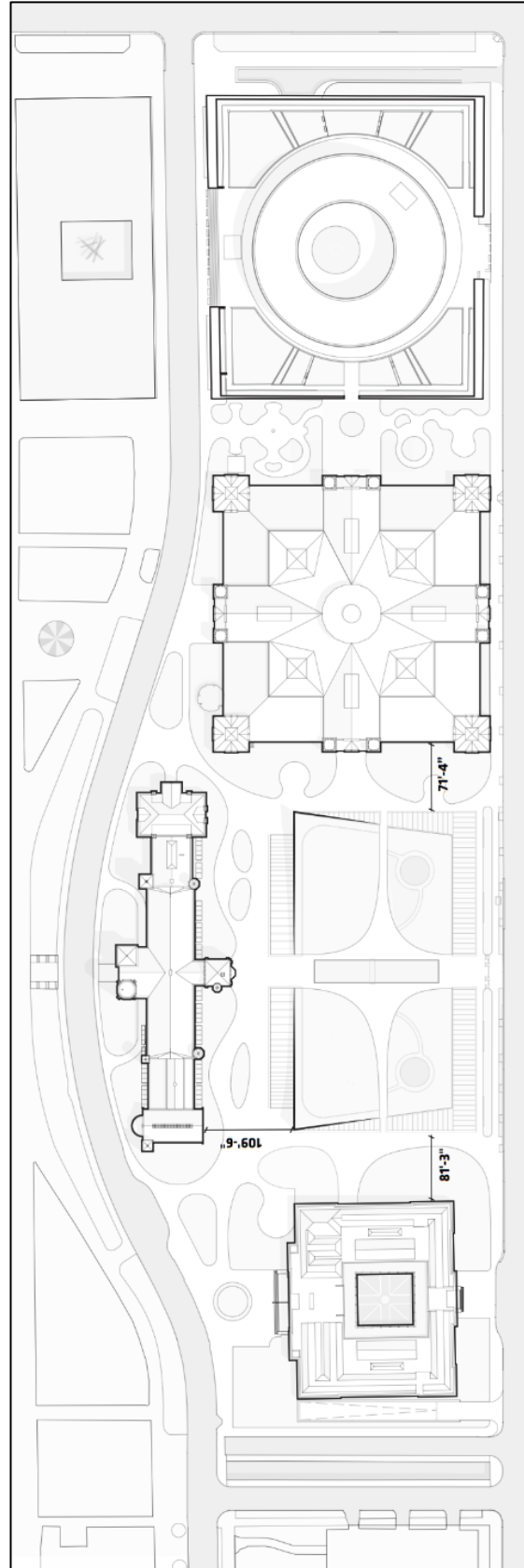
Above-grade Scope of Work.



Below-grade Scope of Work.



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Distances between the new Quadrangle Pavilions and adjacent historic buildings.



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Existing view looking west on Independence Avenue.

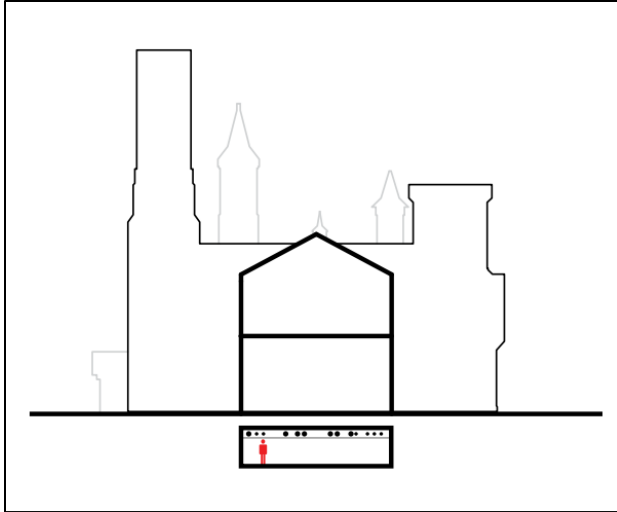


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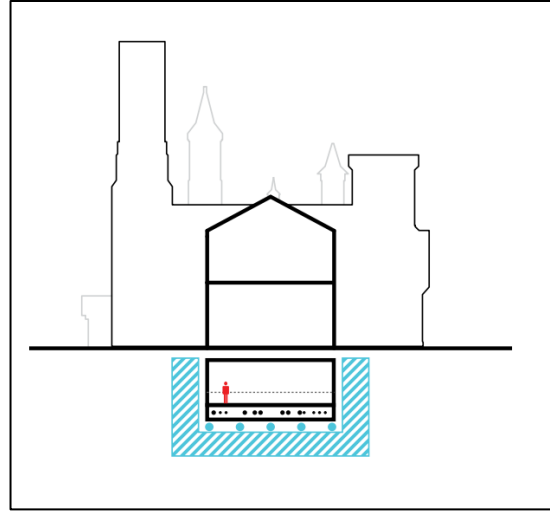
Rendered view looking west on Independence Avenue.



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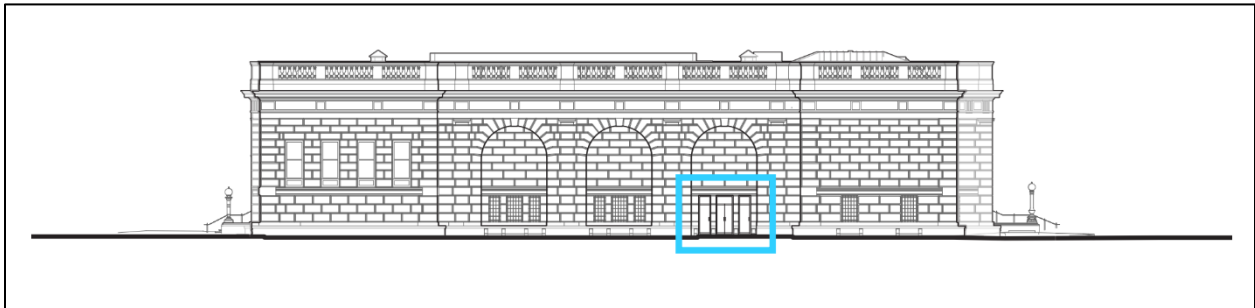


Existing Castle Basement Level.

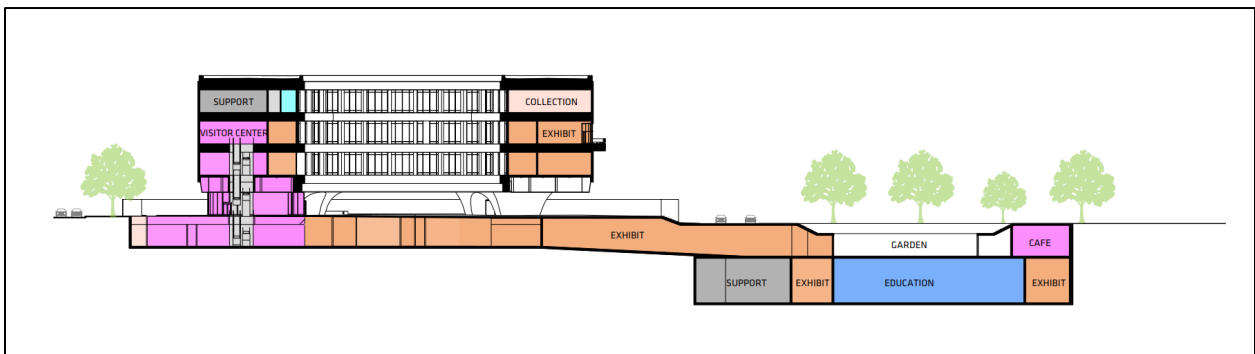


Proposed Castle Basement Level.

In the proposed condition, the blue shading and dots indicate seismic protection upgrades.



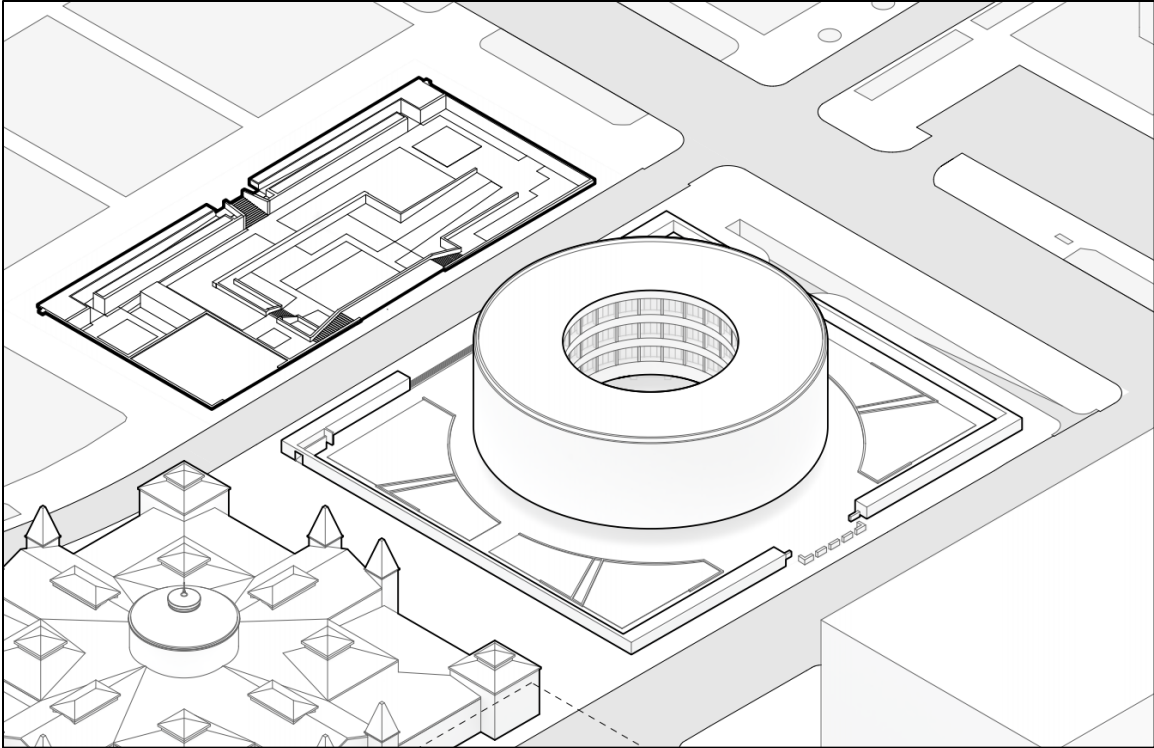
Proposed accessible entrance on the east elevation of the Freer Gallery.



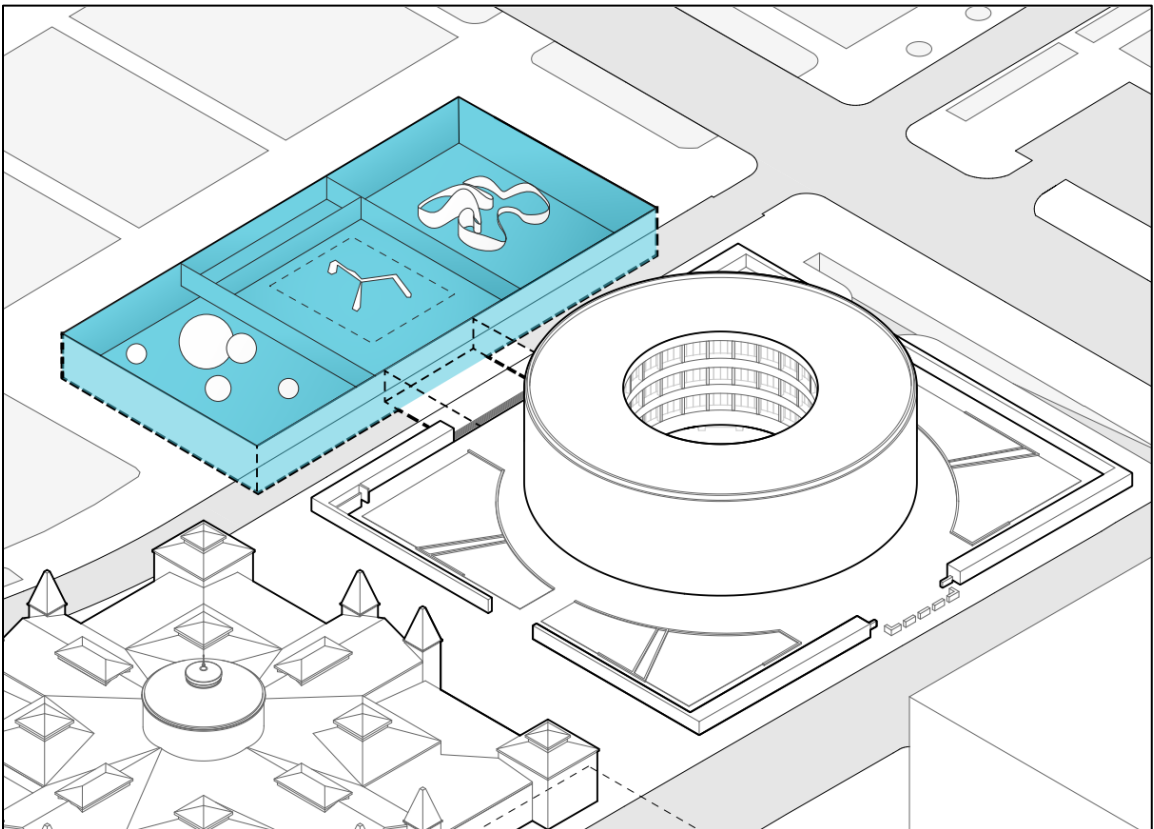
Proposed Hirshhorn Museum and Sculpture Garden section.



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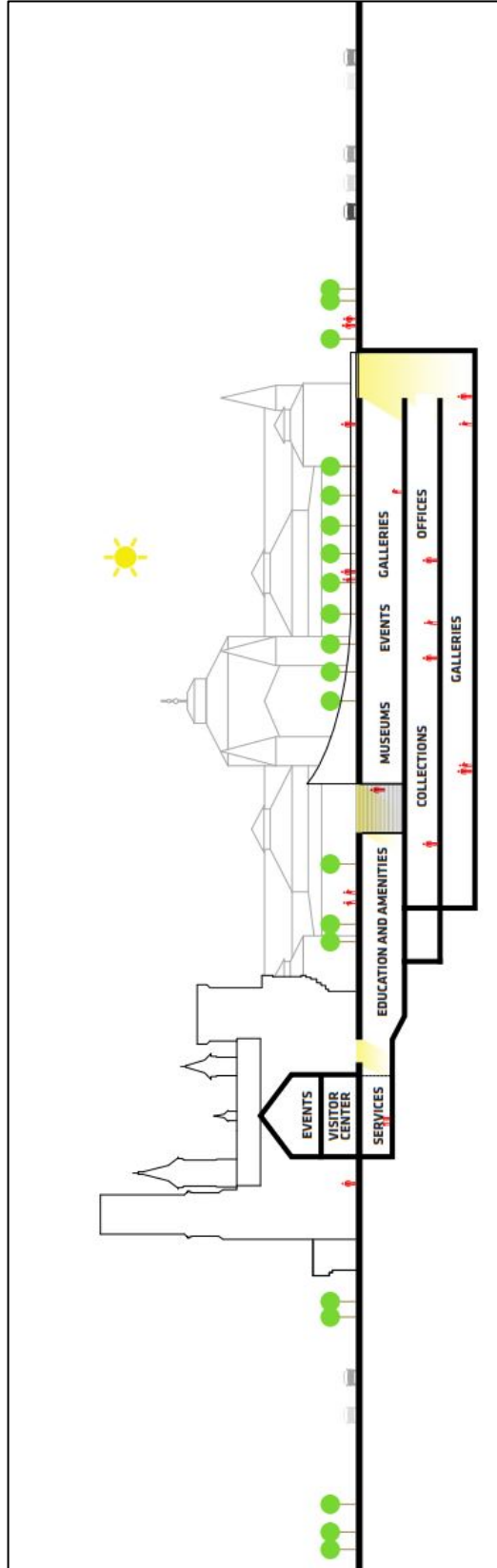
Existing Hirshhorn Museum and Sculpture Garden, Axonometric View.



Proposed Hirshhorn Plaza wall opening, Tunnel expansion, and below-grade Sculpture Garden expansion.



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Proposed north-south section, illustrating the Castle Visitor Center, connection to the Quadrangle Building, and reconfiguration of the Quadrangle programming.



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Exhibit H – Design and Construction Phasing

The phasing of the South Mall Master Plan will prioritize the Castle Revitalization, urgently needed repairs at the Hirshhorn, and campus infrastructure projects. The infrastructure projects include the central utility plant and the consolidated loading facility, which provide the support for subsequent campus construction projects. The Arts and Industries Building may play a role in accommodating temporarily displaced programs. The Quadrangle and Hirshhorn renovations and the AIB revitalization will take place after new services are in place and as funding becomes available.

