

### South Mall Campus Master Plan Assessment of Effects

This document provides an assessment of effects for the alternatives under consideration for the South Mall Campus Master Plan. The alternatives under consideration are titled Alternative A, B, D, and F (alternatives C and E have been dismissed from further consideration and have not been addressed for their effects on historic properties). Potential adverse effects resulting from the No Action Alternative are also described.

The Smithsonian Institution has defined an Area of Potential Effects (APE), and identified historic properties within that area (illustration at right) that are listed in, or have been determined as being eligible for listing in, the National Register of Historic Places (NRHP).

#### Criteria of Adverse Effect

Effects assessments are based on the criteria of adverse effect as defined in the implementing regulations of Section 106 of the National Historic Preservation Act (NHPA). The criteria of adverse effect are defined as follows:

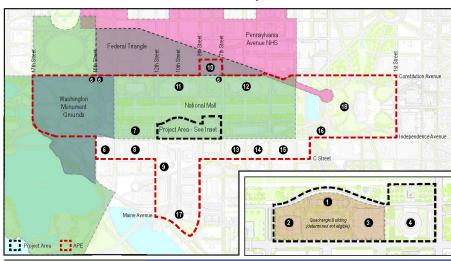
An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the National Register. Adverse effects may include reasonably foreseeable effects caused by the undertaking that may occur later in time, be farther removed in distance or be cumulative.

Examples of adverse effects may include: physical destruction or damage; alterations that are inconsistent with the Secretary's Standards for the Treatment of Historic Properties, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation, and provision of handicapped access; removal of the property from its historic location; change of the character of the property's use or of contributing physical features within the property's setting; introduction of visual, atmospheric, or audible elements that diminish the property's integrity of the property's significant historic features; neglect or deterioration (except in certain religious or cultural cases); and transfer, lease, or sale of property out of Federal ownership or control without adequate preservation controls.

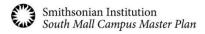
The following table provides an assessment of the effects of the proposed alternatives on NRHP-eligible or NRHP-listed historic properties and is based upon the Section 106 criteria of adverse effect. The effects analysis has been organized by historic properties and actions under each alternative. Direct effects are addressed first, followed by indirect effects.

In some cases, design details at the master planning level are not fully developed to correctly assess the effect of a specific action. In such cases, the effects will be further addressed at the time of project design. Where known or potential adverse effects have been identified, the Section 106 resolution document will outline treatment strategies to avoid, minimize, or mitigate adverse effects on the historic properties and outline guidelines for addressing unknown effects. Due to the nature of this project as a Master Plan, certain actions have the potential to create adverse effects due to their related or cumulative nature. These related and cumulative effects have been described at the end of this document.

#### Area of Potential Effects and Identification of Historic Properties



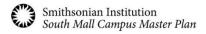
	Within Project Area		Within Area of Pot	ential	Effects (APE)
	National Mall		Washington Monument Grounds	11	National Museum of Natural History
	Smithsonian Institution Quadrangle		Pennsylvania Avenue NHS	12	National Gallery of Art (West Building)
	Plan of the City of Washington		Federal Triangle Historic 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		



Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
				Direct Effects - Within	Project Area		
Freer Gallery of Art DC, NR, Contributing	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 effect the historic window configuration. Adverse effect.	Alteration of the east wall will adversely effect the original window configuration and diminish the property's integrity of design and materials. Adverse effect.	Alteration of the east wall will adversely effect the original window configuration and diminish the property's integrity of design and materials. Adverse effect.	Alteration of the east wall will adversely effect the original window configuration and diminish the property's integrity of design and materials. Adverse effect.	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.
buikling to Mall HD and Quadrangle HD	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 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.	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.	Excavation may require structural underpinning to Freer Gallery.     Ramp and associated infrastructure has potential to adversely effect the character of the Freer Gallery and diminish its integrity of setting.     Effects will be further evaluated at time of project design.
	Castle Blast Protection: Castle retrofit will include blast resistance to be coordinated with perimeter security elements.	Without treatment, Castle will Castle will 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. No 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. No adverse effect.	Blast protection will include hardening and replacement of nonoriginal components, including windows. Project will be designed to avoid effects on historic fabric. No 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. No adverse effect.	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.
Smithsonian Institution Building "Castle" DC, NR, NHL, Contributing building to Mail HD and Quadrangle HD	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.	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.	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.



Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
				Direct Effects - Within	Project Area		
	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 infill 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.	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 at connection to Quadrangle and in mechanical and food service spaces.
Smithsonian Institution Building "Castle"	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.	No adverse effect.	No adverse effect.	No adverse effect.	No adverse effect.	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.
DC, NR, NHL, Contributing building to Mall HD and Quadrangle HD	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 adverse effect.	Sub-basement excavation is limited to the east and west Castle ranges and wings. No 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. No adverse effect.	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. <i>No adverse effect.</i>	Removal of the Ripley Pavilion 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 of setting. Potential 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 size and visibility of the entrance has potential to adversely affect character of Castle and diminish its integrity of setting.  Potential adverse effect.	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.



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	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. <i>No adverse effect.</i>	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.	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 interim uses 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. <i>No adverse</i> effect.	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. <i>No adverse effect.</i>	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. <i>No adverse effect.</i>	Removing the parking lot and expanding the existing garden will not adversely effect the character or integrity of AIB. <i>No adverse effect.</i>	In Alternatives B-F, the expanded garden will maintain the character and setting of the existing Ripley Garden.
building to Mall HD and Quadrangle HD	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. <i>No adverse</i> effect.	Excavation will require structural underpinning to be performed on west side of AIB foundations. At-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. At-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. At-grade ventilation and access infrastructure associated with utility plant has potential to adversely affect character and setting of AIB. Potential adverse effect.	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.
Hirshhorn Museum & Sculpture Garden Determined eligible for NR	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 site. <i>No adverse effect.</i>	Renovation will not affect character or integrity of site. <i>No adverse effect.</i>	Renovation will not affect character or integrity of site. <i>No adverse effect.</i>	Renovation will not affect character or integrity of site. <i>No adverse effect.</i>	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.
Contributing buikling to Mall HD	Hirshhorn Sculpture Garden Walls: Perimeter Sculpture Garden walls will be restored.	No effect.	Walls will be repaired in kind. <i>No adverse effect.</i>	Walls will be repaired in kind. <i>No adverse effect.</i>	Walls will be repaired in kind. <i>No adverse effect.</i>	Walls will be repaired in kind. <i>No adverse effect.</i>	Undertaking is common to all action alternatives.     Repairs to walls are necessary to prevent further deterioration of their condition and appearance.



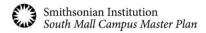
Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
				Direct Effects - Within	Project Area		
	Hirshhorn Plaza Walls: Portions of the Plaza walls will be removed to allow a direct pedestrian connection to AIB and the Ripley Garden.	No effect	No alterations are proposed. <i>No adverse effect.</i>	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. <i>Adverse effect.</i>	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 Museum & Sculpture Garden Determined eligible for NR Contributing buikting to Mall	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. <i>No adverse effect.</i>	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.	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.
HD	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.	Sculpture garden will be retained in its current configuration. No adverse effect.	Sculpture garden will be retained in its current configuration. No adverse effect.	Existing Sculpture Garden elements will be removed and replaced with a new Sculpture Garden and galleries below. <i>Adverse</i> effect.	Existing Sculpture Garden elements will be removed and replaced with a new Sculpture Garden and galleries below. Adverse effect.	The new Sculpture Garden proposed in Alternatives D and F will remain below the prevailing grade of the Mall. A majority of the existing perimeter walls will be retained. Any interim changes to the Sculpture Garden will undergo separate review.
Quadrangle Building Contributing buikling to:	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. <i>No adverse effect.</i>	Replacement of the roof membrane will not adversely effect the contributing Quad building. <i>No adverse effect.</i>	Replacement of the roof membrane will not adversely effect the contributing Quad building. <i>No adverse effect.</i>	Replacement of the roof membrane will not adversely effect the contributing Quad building. <i>No adverse effect.</i>	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.
National Mall HD DC, NR	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. Effects to be determined.	Haupt Garden features will be replaced in kind following roof membrane replacement. Effects to be determined.	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.	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.



Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
				Direct Effects - Within	Project Area		
	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. <i>No adverse</i> effect.	Loading ramp will be removed and garden will be expanded into this area. <i>No adverse effect.</i>	Loading ramp will be removed and garden will be expanded into this area. <i>No adverse effect.</i>	Loading ramp will be removed and garden will be expanded into this area. <i>No adverse effect.</i>	Removal of the loading dock in Alternatives B-F will not adversely affect the contributing Quad building.
	Ripley Pavilion: The Ripley Pavilion will be removed to allow construction of a consolidated loading facility.	No effect.	Ripley Pavilion will remain. <i>No adverse</i> 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. <i>Adverse</i> <i>Effect</i> .	Removal of the Ripley Pavilion will adversely affect the contributing Quad building. Adverse Effect.	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.
Quadrangle Building Contributing building to:	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 adverse 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. Atgrade 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.	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.
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. <i>No adverse</i> <i>effect.</i>	Museum entrances will be reoriented to existing openings in the north walls of the museum pavilions. 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. 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. Adverse effect.	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. <i>No adverse effect.</i>	No skylight alterations are proposed. <i>No adverse effect.</i>	Removal of contributing skylight features and installation of larger skylights will adversely affect the contributing Quad building. Adverse effect.	Removal of contributing skylight features and installation of larger skylights will adversely affect the contributing Quad building. <i>Adverse</i> <i>effect.</i>	In Alternatives D and F, adverse effects will be minimized by integrating these features into the landscape and building design.



Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information	
	Direct Effects - Within Project Area							
National Mall HD <i>DC, NR</i>	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. <i>Potential adverse effect.</i>	Perimeter security has the potential to adversely affect the character of the Mall, including the relationship of buildings to the surrounding landscapes. <i>Potential adverse effect.</i>	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.	Undertaking is common to all action alternatives.     NCPC 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.	
Plan of the City of Washington (L'Enfant Plan) DC, NR	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.	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 Ar- chaeological 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. <i>No adverse effect.</i>	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.	The site has been extensively disturbed and has minimal potential for archaeological resources. Programmatic Agreement will include stipulations for previously undiscovered archaeological resources.	
				Indirect Effects - Within Area	of Potential Effects			
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.	The new Sculpture Garden proposed in Alternatives D and F will remain below grade of Mall.	
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. <i>No adverse effect.</i>	No substantial alterations to the Sculpture Garden are proposed. <i>No adverse effect.</i>	Modifying the Sculpture Garden has the potential to affect the east-west Mall viewshed. <i>Potential</i> adverse effect.	Modifying the Sculpture Garden has the potential to affect the east-west Mall viewshed. <i>Potential</i> adverse effect.	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 Mall to minimize the potential adverse effect. Effects will be further evaluated at time of project design, to assess the visibility of the proposed changes.	



Resource	Feature/Action	NO ACTION	ALTERNATIVE A	ALTERNATIVE B	ALTERNATIVE D	ALTERNATIVE F	Comments/Additional Information
				ndirect Effects - Within Area	of Potential Effects		
National Mall	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 adverse effect.	The new loading dock ramp will be only minimally visible from the Mall. <i>No adverse effect.</i>	The new loading dock ramp will be only minimally visible from the Mall. No adverse effect.	The new loading dock ramp will be only minimally visible from the Mall. No adverse effect.	Beyond the potential direct effects to the contributing Freer Gallery described above, there will be no adverse effects on the Mall HD.     The new loading ramp has no potential to alter the principal, east-west Mall viewshed.
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. <i>No adverse</i> <i>effect.</i>	Only a minor reconfiguration of the museum pavilions is proposed. <i>No adverse effect.</i>	Replacement of these pavilions will not negatively affect contributing historic views within the Mall. No adverse effect.	Replacement of these pavilions will not negatively affect contributing historic views within the Mall. No adverse effect.	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.	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 Pennsylva- nia 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. <i>No adverse</i> 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.	A small portion of the APE overlaps with these historic districts, drawn to incorporate the Ninth Street viewshed.
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.	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.



#### **Cumulative and Related Effects**

NHPA Section 106 implementing regulations require agencies to consider the cumulative effects on their undertakings on historic properties. When assessed individually, the above-described actions often have a limited potential to adversely affect historic properties. However, when assessed as connected or interrelated projects, these cumulative effects have the potential to rise to the level of adverse under Section 106. Furthermore, many of these actions are intended to counter past and reasonably foreseeable future actions and/or events. This narrative includes a discussion of those past and future actions.

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

### Freer Gallery of Art

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

#### Smithsonian Institution Building "Castle"

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

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

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

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

The South Mall Campus Master Plan seeks to address the deficiencies in the Castle's historic character and structural integrity through a coordinated expansion, rehabilitation, and structural and blast upgrade. All action alternatives propose extensive excavation to create a belowgrade Visitor Center beneath and adjacent to the Castle basement and to allow for the installation of a base isolation system. The sub-basement expansion will accommodate visitor amenities in addition to mechanical equipment and centralized loading. The relocation of these systems and program elements will allow mechanical equipment and infill construction 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 to the south of the Castle also has the potential to diminish its integrity of setting. However, these cumulative adverse effects are 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.

Under Section 110(f) of the NHPA, the Smithsonian is required to minimize harm to any National Historic Landmark (including the Castle), to the maximum extent possible. To minimize or avoid this cumulative adverse effect 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.

Section 110 of the NHPA also promotes the use of historic buildings by Federal agencies. 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 Hirshhom Museum and Sculpture Garden has the potential to generate

1 36 CFR § 800.10(a).

cumulative adverse effects on this property.

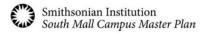
Two major landscape projects in the twentieth century altered the character of the Hirshhom Plaza and Sculpture Garden. In the Sculpture Garden, a landscape rehabilitation project completed between 1977 and 1981 improved the accessibility and environmental hospitableness of the landscape. Between 1989 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 changes proposed to alter these elements does not represent an adverse effect.

However, 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 Hirshhom is a contributing property). The effects are 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.

#### 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 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 Carden, 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.

Section 106 Consultation, Assessment of Effects October 31, 2017

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# Smithsonian South Campus Master Plan Consulting Parties List

		Title	
Review Agencies			
	Marcel C. Acosta	Executive Director	
	Diane Sullivan	Director, Urban Design and Plan Review Division	
	Elizabeth Miller	Director, Physical Planning Division	
National Capital Planning Commission (NCPC)	Jennifer Hirsch	Federal Preservation Officer	
	Matthew Flis	Senior Urban Planner	
	Cheryl Kelly	Urban Planner	
	Dereth Bush	Urban Planner	
	Vivian Lee	Urban Planner	
	Thomas Luebke	Secretary	
Commission of Fine Arts (CFA)	Frederick Lindstrom	Assistant Secretary	
	Sarah Batcheler	Architect, Shipstead-Luce Act	
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DC Historic Preservation Office (SHPO)	David Maloney	State Historic Preservation Officer	
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Tribal Historic Preservation Office			
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# Smithsonian South Campus Master Plan Consulting Parties List

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	Sean Kennealy	Chief of Professional Services	
	Susan Spain	Project Executive, National Mall Plan	
	Kathryn Smith	National Historic Landmark Coordinator	
	Tom Hoffman	Director, Facilities Management Division	
US Department of Agriculture	Robert Snieckus	National Landscape Architect	
	Haren Dhokai	Architect, Office of Operations	
	Bill Dowd	Acting Regional Commissioner, Public Buildings	
	Bill Dowd	Service	
US General Services Administration	Mina Wright	Director, Office of Planning & Design Quality	
	Nancy Witherell	Regional Historic Preservation Officer	
	Gary Porter	Historic Preservation Specialist	
WMATA	Richard Sarles	General Manager and Chief Executive Officer	
VVIVIATA	James Ashe	Environmental Planning and Compliance	
District of Columbia Department of the Environment	Keith Anderson	Director	
District of Columbia Department of Public Works	Christopher Shorter	Director	
District of Columbia Fire and Emergency Medical Servic	e Bruce Faust	Chief	
DC Chamber of Commerce	Harry Wingo	President and CEO	
US Department of Energy	Amanda Bouza		
US Department of Health and Human Services	Dann Reilly		
Federal Aviation Administration	Katherine Andrus		
VOA		Public Relations	
Internal Revenue Service	Dennis Ouellette		
Internal Revenue Service	Joe Colaciello		
US Department of Justice	Michael Allen	Federal Preservation Officer	

# Other Interested Parties

American Institute of Architects, DC Chapter	Mary Fitch	Executive Director	
Committee of 100 on the Federal City	Nancy J. MacWood	Chair	
Committee of 100 on the rederarcity	Pat Tiller		
Cultural Landscape Foundation	Charles Birnbaum	Founder and President	
Cultural Tourism DC	Steven E. Schulman	Executive Director	
DC Preservation League	Rebecca Miller	Executive Director	
DC Water	George Hawkins		
DOCOMOMO US - DC Chapter	Scott Paden	Member	
DOCOMOMO_03 - DC Chapter	Tom Jester	Member	
Dwight D. Eisenhower Memorial Commission	Daniel J. Feil	Executive Architect	
Guild of Professional Tour Guides of Washington, DC	Tom Whitley		
NPS Concessionaire	Dick Swihart	National Mall & Memorial Parks	
National Association of Olmsted Parks	Katherine Adams	Executive Director	
National Coalition to Save Our Mall	Judy Scott Feldman		
	Elizabeth Merritt		
National Trust for Historic Preservation	Rob Nieweg		
	Southern Field Office		
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Preservation Action	Meagan Baco		
Society of Architectural Historians	Pauline Saliga	Executive Director	

# Smithsonian South Campus Master Plan Consulting Parties List

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Trust for the National Mall	Caroline Cunningham	President	
US Capitol Historical Society	Ronald A. Sarasin	President	
US Holocaust Memorial Museum	Tom. A. Bernstein	Chairman	
Victorian Society in America	Tina Strauss	President	
Washington Gas	Terry McAlister (Allan Melizza)		
	Thomas Fryer, PE		
	Andrew Hickey		
Southwest Neighborhood Assembly	Bruce Levine	President	
	Perry Klein	Vice President	
National Civic Art Society	Justin Shubow	Chairman of the Board of Directors	
Waterfront Gateway Neighborhood Association	Bob Craycraft	Executive Director	
American Society of Landscape Architects	Nancy Somerville	Executive Vice President/CEO	
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Bethesa Community Garden Club Candy Kessel

## Local Elected Representatives

Advisory Neighborhood Commission 2C	John Tinpe	SMD 2C01	
	Harold Closter	SMD 2C02	
	Kevin Wilsey	SMD 2C03	
Advisory Neighborhood Commission 6D	Stacy Cloyd	SMD 6D02	
	David Garber	SMD 6D07	
	Rhonda N. Hamilton	SMD 6D06	
	Andy Litsky	SMD 6D04	
	Sam Marrero	SMD 6D01	
	Roger Moffatt	SMD 6D05, Chair	
	Rachel Reilly Carroll	SMD 6D03	
District of Columbia Office of the Mayor	The Honorable Ms. Muriel Bowser	Mayor	
District of Columbia City Council	Phil Mendelson, Chair	Chair	
	Vincent Orange	Councilmember	
	David Grosso	Councilmember	
	Anita Bonds	Councilmember	
	Elissa Silverman	Councilmember	
	Mary M. Cheh	Councilmember	
	Kenyan McDuffie	Councilmember	
	Yvette M. Alexander	Councilmember	
	Jack Evans	Councilmember	
	Brianne Nadeau	Councilmember	
	Charles Allen	Councilmember	
DC Delegate	Honorable Eleanor Holmes Norton		
	Lauren Dudley		