

SIGNATORY PAGE

**PROGRAMMATIC AGREEMENT AMONG
THE U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE ADVISORY COUNCIL FOR HISTORIC PRESERVATION
FOR SECTION 408 PERMISSIONS WITHIN THE CORPS BOUNDARIES
OF THE SACRAMENTO DISTRICT, CALIFORNIA**

ADVISORY COUNCIL ON HISTORIC PRESERVATION

John M. Fowler, Executive Director

Date:

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U.S. ARMY CORPS OF ENGINEERS

Randy P. Olsen, Chief Operations Division

Date:

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TRIBAL SIGNATURE PAGES:

The Corps invited all interested Tribes to participate in the consultation to development this Agreement and to enter into this Agreement as an Invited concurring parties. Interested Tribes have been invited to notify the Corps of any initial interest in executing this Agreement and signature pages for all Tribes indicating an initial interest are included in this Agreement.

The Corps will initiate government-to-government consultation with all other Indian Tribes that may have an interest in historic properties, including properties of religious and cultural significance, in the State of California as these Indian Tribes are identified by the Corps.

The Corps will incorporate additional executed signature pages by Invited concurring parties into this Agreement in the occasion that they are requested.

CONCURRING PARTIES

**PROGRAMMATIC AGREEMENT AMONG
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Tribe name add the number of pages at such time

By: _____

Date: _____

Appendix A

The Corps “Section 408 Permissions” Program Summary

Introduction

The U.S. Army Corps of Engineers (Corps), Sacramento District has constructed, and continues to construct, significant and expansive civil works projects within its geographical area of responsibility in California. Due to the presence of these existing civil works projects, the Sacramento District receives numerous requests each year from private interests and local and state agencies to perform activities that would affect or alter the Corps civil works projects. When requests are received, they are evaluated to determine if the proposed alteration would impair the usefulness of the Corps project or be injurious to the public interest. This Programmatic Agreement will be applicable to requests to *alter* existing federal civil works projects within California in the Sacramento District. The Sacramento District’s geographical area of responsibility in the state of California is shown in Figure 1 below.

Section 408 Permissions

The authority to grant permission for temporary or permanent use, occupation or alteration of any Corps civil works project is contained in Section 14 of the Rivers and Harbors Act of 1899, as amended, codified at 33 U.S.C. 408 (“Section 408”). Section 408 authorizes the Secretary of the Army (Secretary), on the recommendation of the Chief of Engineers, to grant permission for the alteration or occupation or use of a Corps project if the Secretary determines that the activity will not be injurious to the public interest and will not impair the usefulness of the project. The Secretary’s authority under Section 408 has been delegated to the Corps, Chief of Engineers. The Corps Chief of Engineers has further delegated the authority to the Corps, Directorate of Civil Works, Division and District Commanders, and supervisory Division Chiefs depending upon the nature of the proposed activity. At the same time, the project is also reviewed for National Environmental Policy Act (NEPA) compliance. To implement this portion of the law, the Corps developed an Engineering Circular (EC), entitled, Policy and Procedural Guidance for Processing Requests to Alter US Army Corps of Engineers Civil Works Projects (EC 1165-2-216), which more specifically delineates the process for reviewing these “Section 408 Permissions”. The EC allows each Corps District office to develop a Procedural Review Plan to be used for Section 408 requests that are similar in nature and have similar impacts.

The granting or denial of permission pursuant to Section 408 is not a permit action handled by the Regulatory Program. Moreover, if a proposed alteration also requires authorization pursuant to Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and/or Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (Section 10/404/103), district Regulatory and Section 408 personnel will coordinate throughout their respective evaluations. Through coordination, whichever permitting action (404/408) has the larger jurisdictional area will take the lead on required consultations. Regardless of who takes the lead on the consultations, coordination will ensure that the consultation covers both permitting actions.

Typical Actions Requiring Section 408 Permission

Within the Sacramento District's area of operation, typical requests for alterations to existing civil works projects include, but are not limited to, the following examples:

- Pipeline crossings of levees, floodwalls, and navigation channels including horizontal directional drills, open cuts, ramp-overs, and floodwall penetrations
- Seepage and stability berms
- Utility lines including fiber optic, water, natural gas, and electricity, both aerial and underground, including associated structures and support poles
- Bulk material conveyor systems and borrow sites
- Culverts, drainage pipes, and drainage ditches
- Vehicle and pedestrian bridges
- Bank stabilization and erosion control features, erosion repair, and erosion control
- Boat docks, marinas, boat ramps, and associated facilities
- Cattle guards, fences, and gates
- Trails, signage, lighting, and other similar operational, recreational, and decorative features
- Soil investigations, including borings, piezometers, and inclinometers.
- Levee ramps, maintenance roads, and crossings
- Agricultural Activities
- Channel sediment removal and around structures
- Debris obstruction removal
- Private residence construction, additions, swimming pools, stairways and handrails, and driveways
- Fish screens
- Floodway restoration projects
- Retaining walls
- Rock removal
- Water supply wells

The Sacramento District maintains that actions that require *permissions* are similar in nature and are *typically* of small size, not very complex, and have minimal to no impacts (similar impacts) to existing civil works projects. However, there are some actions that require permissions that are large-scale, complex, and have the potential to significantly affect the operation of existing civil works projects.

Per EC 1165-2-216, the scope of the analysis for Section 408 reviews is limited to the lands and real estate property interests acquired for the Corps projects and those adjacent areas that are directly or indirectly affected by the alteration. If a proposed alteration is part of a larger project that extends beyond the Corps project boundaries, the Sacramento District staff would determine what portions or features of the larger project the Corps has control and responsibility over to warrant inclusion as part of the evaluation, as described in EC 1165-2-216.

Implementation of this PA would not change the engineering and real estate reviews conducted for every Section 408 request.

Sacramento District Section 408 Jurisdiction

Section 408 Permissions would be required for alterations made to federally authorized Civil Works Projects within the following counties that are within the Sacramento District boundaries in the State of California.

- Alameda (part of)
- Alpine
- Amador
- Butte
- Calaveras
- Contra Costa (part of)
- Colusa
- El Dorado
- Fresno
- Glenn
- Kern (part of)
- Kings
- Lake
- Lassen
- Madera
- Mariposa
- Merced
- Modoc
- Mono (part of)
- Nevada
- Placer
- Plumas
- Sacramento
- San Joaquin
- Shasta
- Sierra
- Solano (part of)
- Stanislaus
- Sutter
- Tehama
- Tulare
- Tuolumne
- Yolo
- Yuba



Figure 1: The Sacramento District Civil Works geographical boundary in the State of California.

Appendix B Programmatic Allowances

There are numerous Corps civil works projects within the boundaries of the Sacramento District within the state of California. Each year the Sacramento District receives requests through our project sponsors from private, public, tribal, and other federal entities to alter the Corps federally authorized civil works projects pursuant to Section 408. The Sacramento District receives numerous Section 408 requests for minor alterations to the Corps projects each year; a total of 105 requests were received in 2015 and 107 requests were received in 2016. The majority of these requests are for relatively minor alterations of the levees or channels, such as installation of irrigation pipes, horizontal directional drilling for the placement of utility lines, and private recreational boat docks. Many of the project descriptions for proposed alterations are similar and the effects tend to be minor or negligible, however, the current review and approval process is time intensive. The need for this agreement document is to increase efficiencies to simplify the review process of Section 408 requests for minor alterations to the Corps federal projects.

This list of Programmatic Allowances (Allowances) enumerates the Corps Permission activities that based on the Corps experience, may have no or minimal effect on historic properties if implemented as specified in this Appendix and will not require review by the SHPO and Tribe(s). Should an unexpected discovery, unidentified property, or unexpected effect be encountered, work must stop and compliance with Stipulation XII is required.

These allowances can only be used by qualified staff in accordance with Stipulation III.A of this Agreement. In accordance with Stipulation VII.A, Undertakings composed entirely of work described by the Allowances do not require further Section 106 review.

“In-kind,” when referenced in the Allowances for historic materials and features shall be in accordance with the *Standards and otherwise consistent with the relevant Preservation Brief* (<https://www.nps.gov/tps/how-to-preserve/briefs.htm>), and shall mean that it is either the same or a similar material, and the result shall match all physical and visual aspects, including design, design form, texture, profile, dimensions, proportion, and workmanship. Where severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture and, where possible, materials.

Allowances arranged by Activity

- I. **Administrative Actions:** The Corps has determined that the following types of activities have limited or no potential to affect historic properties and the Corps has no further Section 106 responsibilities with regards to them.
 - a. Monitoring, data gathering, and reporting in support of 408 Permissions, ATR review, etc.

- b. Permissions for planning, studies, design and engineering costs that involve no commitment of resources other than staffing and associated funding.
- c. Funding the administrative action of acquisition or lease of existing facilities where planned uses conform to past use or local land use requirements and do not extend outside the existing facility boundaries.

II. GROUND DISTURBING ACTIVITIES AND SITE WORK are limited to the proposed activities, including the areas where the activity is staged, as described below. Project review should take into account the entirety of the proposed activities including staging, site access, site cleanup, and possible site work (e.g. grading for positive drainage, vegetation removal) as potential ground-disturbing activities.

If the project substantially conforms to the existing footprint or is one of the situations described below in Allowance A. General (1-4) and no known eligible or unassessed archaeological site (i.e. no historic property or potential historic property) is within the footprint and area of project activities, the Allowance may still be applied. If a potential ground-disturbing activity including staging, site access, site cleanup, and possible site work (e.g. grading for positive drainage, vegetation removal) falls within a known eligible or unassessed site, SHPO Review per Stipulation VII.B., will apply. If the permission request falls outside of the existing footprint and if the General provisions and/or the other allowances are not met, Internal Review, per Stipulation VII. A., will also apply.

A. GENERAL. In certain instances the nature, scope, and magnitude of the proposed permission request work may be such that there is little likelihood that either a historic property exists or is likely to be affected. Four such situations are where the work would occur within:

1. Areas that have been extensively modified by previous civil works; or
2. Areas which have been created in modern times (less than 50 years old and documented) and do not qualify as an Exceptionally Significant resource per the National Park Service (Criteria Consideration G); or
3. Areas which have been adequately surveyed for cultural resources meeting current SHPO standards and no eligible or unassessed/unevaluated properties have been recorded; or
4. Certain types of work that are of such limited nature and scope that there is little likelihood of impinging upon a historic property, even if such properties were to be present, examples of these certain types of work are small-scale investigations like soil borings, signpost, or installation of monitoring equipment such as piezometers and inclinometers.

B. WATER RESOURCE MANAGEMENT AND CONTROLS

1. Canal Systems

- a. In-kind repair or in-kind replacement to canal systems and in-kind repairs or in-kind replacement of minor associated elements including limited upgrades (e.g. weirs, gates, revetments, and safety elements).
2. Dams, Levees, and Floodwalls
 - a. In-kind repair of dams, levees, floodwalls and related features, including spillways, tide gates, and fuse plugs, provided the work occurs within the existing construction footprint, and does not alter the existing pool.
3. Dredging
 - a. Sediment and debris removal from human-made navigational facilities (navigation channels, bar channels, flotation channels, etc.) and canals – maintenance dredging. The sediment may be used to repair eroded banks or disposed of at an existing licensed or permitted disposal site(s).
4. Ecosystem Restoration Features
 - a. In-kind repair or in-kind replacement or upgrading of containment berms, fish ladders, fish screens, and other features.
 - b. Restoration of stream channels by removing blockages of brush, trees, and sediment, or by placement of in-stream structures (e.g., boulders, stumps, logs, and plantings), fish-cover devices, and spawning gravels, as long as restoration stays within the active stream channel.
 - c. Placement of temporary fish monitoring equipment, including the use of hand-driven and removable bank anchors.
 - d. Revegetation that require minimal scarification and excavation with hand tools.
 - e. Restoring, through excavation and/or change in water management, historic topography or natural water flow to former wetlands that are now or once were farm fields or pastures that have been previously disturbed area and depth through laser leveling excavation, cultivation, discing, ripping to eliminate hardpan, or tiled.
5. Waste-Water Treatment Lagoon Systems/Water Treatment Plants
 - a. In-kind repair or in-kind replacement, or minor upgrades of waste-water treatment lagoon systems, water intake and outflow systems for water treatment plants, etc.

6. Water Control Structures

- a. Removal, replacement and/or installation of flap-gates or flood gates, and bar screeners provided that activities are confined to the existing construction footprint or does not require new or additional water impoundment areas to be excavated to construct said features.
- b. Sediment and debris removal from human-made drainage facilities, including retention/detention basins, ponds, ditches, and canals. The sediment may be used to repair eroded banks or disposed of at an existing licensed or permitted spoil site. This allowance does not apply to historic canals, canal structures, or historic features.

C. UTILITIES, COMMUNICATIONS SYSTEMS, AND TOWERS are limited to distribution and collection systems for water, electricity, gas/ oil, and communications, including sewer, water, drains, electrical service and distribution, gas, communications, leaching systems, cesspools, and septic tanks, when proposed repair and replacement activities substantially conform to the existing footprint. ***Any proposed new or upgraded construction, including staging areas and access, etc., outside of the existing footprint, including associated features and structures, is limited to the situations outlined under Section II.A. above.***

1. General

- a. In-kind repair or in-kind replacement, or minor upgrading of utilities within the existing footprint.
- b. Potholing or excavation to expose existing utility lines or pipes within existing right-of-ways.
- c. Abandonment in place and grouting of existing buried pipe or water lines less than 50 years old.
- d. Installation of new utilities and associated features within existing rights-of-way provided the activities are not within a National Register listed or eligible historic district and the right-of-way was adequately surveyed for cultural resources.
- e. Within the existing rights-of-way, elevation of existing utilities and associated features and structures within or adjacent to existing footprint provided the activities are not within a National Register listed or eligible historic district.
- f. Directional boring of new/replacement service line and related appurtenances within existing rights-of-way or utility corridors.

- g. The excavation of slit trenches along existing rights-of-way.
- h. Installation of new water wells.
- i. In-kind repair or replacement, or minor upgrades of water towers provided activities take place within the existing footprint. Ground-level facilities that do not expand the footprint by more than 10% may be added or expanded, provided the activities are not within a National Register listed or eligible historic district. This allowance does not apply to the replacement of water towers over fifty (50)-years of age (construction date as noted in the project documentation, as stated by the Requester, or by a photograph/site visit).
- j. In off-road alignments, additions of new poles within the existing rights-of-way, such as mid-span poles, and relocation/realignment of segments of power lines to existing roadways. Minor mitigation measures (e.g., increases in pole diameter) shall be covered by this Allowance.
- k. Installation of exterior security features and early warning devices on existing utility poles on other existing utilities.

2. Generators and Utilities

- a. In-kind repair or in-kind replacement, or minor upgrades, elevation, and/or installation of generators, HVAC system and similar equipment as long as they are placed or located where not highly visible from the street.

3. Communication Equipment/Systems and Towers

- a. Acquisition, installation, or operation of communication and security equipment/systems that use existing distribution systems, facilities, or existing infrastructure right-of-way.
- b. The collocation of communication and security equipment on existing towers and buildings/structures less than fifty (50)-years in age (construction date as noted in the project documentation, or by the Requester, or by a photograph/site visit), provided that the work does not increase existing tower height or existing footprint by more than 10%.
- c. Enhancement, repair or replacement of existing communication towers and antenna structures provided the work does not increase existing tower height or existing footprint by more than 10%.
- d. Installation of new temporary (not to exceed twelve (12)-months) communications towers and antenna structures provided that the work does not require modification of buildings/structures fifty (50)-years or older and

does not have ground disturbing activities that occur on a known eligible or unassessed archaeological site.

- e. Installation of new communication towers, less than two-hundred (200)-feet tall, in previously developed urban complexes and rural area when the work does not require modification of buildings/structures fifty (50)-years or older, and is not within one-thousand (1,000)-feet of the boundaries of a historic property.

D. BANK STABILIZATION AND EROSION CONTROL FEATURES including Footings, Foundations, Retaining Walls, Slopes, and Slope Stabilization Systems

1. In-kind repair, or in-kind replacement, or reinforcement of footings, foundations, retaining walls, slopes, and slope stabilization systems (e.g., placement of rip-rap, gabion baskets, crib walls, Articulated Concrete Matting, etc.).
2. Non-excavation erosion control involving placement of stone or soil-filled quarry stone within erosion footprint.

E. RECREATION, LANDSCAPING, AGRICULTURAL FEATURES

1. In-kind repair or in-kind replacement, or minor upgrades in the same location to recreational facilities (e.g., playgrounds, campgrounds, boat ramps, stands, athletic fields, and parks). This includes features (e.g., fire pits, dump stations and utility hook-ups, above-ground swimming pools, pathways, simple wooden/wire stream crossings, decks), recreational structures and equipment (e.g., benches, bleachers, permanent seating, score boards, batting cages, basketball goals, swing sets, picnic tables), and signage (e.g. street signs, traffic signs, and freestanding facility signage).
2. In-kind repair or in-kind replacement, or minor upgrades to landscaping elements (e.g., fencing, boardwalks, free standing walls, paving, planters, irrigation systems, lighting elements, signs, flag poles, ramps, steps, trellises). Minor mitigation measures (e.g. increases in pole diameter, addition of new safety anchors) will be covered by this Allowance.
3. Installation of small-scale recreation features, landscaping features, and agricultural features, such as cattle guards and simple, small diameter post and wire fences.
4. Installation of in-ground swimming pools within documented imported fill.
5. Landscape or environmental restoration elements.
6. Installation of stairs on levees with the condition that these are not permanently excavated within the levee and are reversible.

7. Cultivation within previously cultivated areas.
8. Replacing row crops and orchards with in-kind.

F. TRANSPORTATION FACILITIES are limited to proposed activities when they substantially conform to the existing civil works footprint and staging areas are limited to existing hardscape, gravel, or equivalent surfaces.

1. Bulkheads, Piers, Docks, Wharfs, Mooring Pilings, Dolphins, Boardwalks, Boat Ramps, and Dune Crossovers
 - a. In-kind repair or in-kind replacement, or minor upgrades such as, codes and standards, to existing bulkheads, piers, docks, wharfs, when placed in the existing civil works construction footprint and not adjacent to a National Register -listed or eligible historic district.
 - b. In-kind repair, or in-kind replacement, or installation of new bollards, fenders, mooring pilings, and associated protective barriers when placed in the existing civil works construction footprint.
 - c. Installation of boat docks within the high-water mark of waterways. Installation measures are limited to placing deadmans and pilings that do not exceed a depth of 2 ft.
2. Roads and Roadways (Levee Ramps and Crossings)
 - d. Construction of temporary emergency access roads to allow for passage of emergency vehicles, per Stipulation VII.F, Review of Emergency Undertakings.
 - b. Re-establishment, armoring and/or minor upgrading of existing roadway ditches.
 - c. In-kind repair, in-kind replacement, and placement of traffic control devices such as traffic signs and signals, delineators, pavement markings, traffic surveillance systems.
 - d. Installation and removal of temporary traffic control devices, (e.g., pre-formed concrete barriers and fencings).
 - e. In-kind repair or in-kind replacement of roadway safety elements such as barriers, guardrails, and impact-attenuation devices. In the case of guardrails, the addition of safety end treatments is permitted.
 - f. In-kind repair or in-kind replacement, or minor upgrade of culvert systems and arches beneath roads or within associated drainage systems, including

provision of headwalls, riprap and any modest increase in capacity for the purposes of flood risk reduction or to meet current codes and standards, provided that the work substantially conforms to existing construction footprints and is limited to the existing right-of-way and provided these structures are not historic in nature. For stone or brick culverts or arches beneath roadways, this Allowance only applies to in-kind repair.

3. Roads and Roadways (ADA/minor-upgrade):

- a. In-kind repair to historic paving materials for roads and walkways using the same materials.
- b. In-kind repair or in-kind replacement, or minor upgrade of road lighting systems, including period lighting fixture styles.
- c. In-kind repair or in-kind replacement, or minor upgrade of road appurtenances such as curbs, shoulders, fences, crosswalks, and sidewalks.
- d. Installation of speed bumps and other traffic calming devices and/or enhanced curbs.
- e. Construction of new ADA ramps, curbs, and crosswalks. This allowance applies within a National Register-listed or eligible historic district, provided the work meets the following:
 - i. Cutting and removal of historic materials is limited to the footprint of the proposed ramp;
 - ii. Historic materials are re-used, if feasible;
 - iii. New paving materials match the physical characteristics of the historic material (size, configuration, color, texture, and material type);
 - iv. Truncated dome mats will be neutral in color to the extent consistent with ADA requirements; and
 - v. Character-defining identification or way finding features (e.g., signage, street tiles, historical markers) shall be salvaged and reinstalled in their original locations and orientation, or as close to their original locations as possible. Damaged or missing elements will be replaced with salvaged or in-kind materials.

4. Bridges

- a. Installation of a temporary (Bailey-type) bridge over an existing structure, such as a former road, bridge, or levee location, to allow passage of emergency vehicles or construction activities.

- b. In-kind repair or in-kind replacement of bridges and bridge components (e.g. abutments, wing walls, piers, decks, and fenders) within the existing footprint. This Allowance does not apply to the replacement of historic bridges identified on the Caltrans website (historic bridge inventory): <http://www.dot.ca.gov/env/cultural/bridges-and-tunnels.html>.
- c. Elevation of non-historic bridges on existing foundations and footings. This Allowance does not apply to work located within or adjacent to a National Register listed or eligible historic district.

5. Rail Systems

- a. In-kind repair or in-kind replacement of safety components.
- b. In-kind repair or in-kind replacement of existing active track systems (on same alignment) and in-kind repair of passenger loading areas.
- c. Repair of crossings, gates, and signals.

III. **STANDING STRUCTURES AND BUILDINGS** when proposed activities, including the area where the activity is staged, described below substantially conform to the existing footprint:

A. ABOVE-GROUND REPAIR OR RETROFIT OF BUILDINGS less than fifty (50)-years old (construction date as noted in the project documentation, or by the Requester, by a photograph/site visit, county assessor's data, or cartographic sources) provided the building does not meet NPS Criteria Consideration G for Exceptionally Significant properties.

B. UTILITARIAN STRUCTURES

- 1. Substantially in-kind repair or in-kind replacement of utilitarian structures (e.g. pump houses, storage buildings, warehouses, or bulk material conveyer) less than fifty (50)-years old (construction date as noted in the project documentation, or by the Requester, by a photograph/site visit, county assessor's data, or cartographic sources), including above-ground pipelines within the existing footprint that do not require pile-driven foundations.

C. STANDING STRUCTURE COMPONENT SYSTEMS

- 1. Utilities and Mechanical, Electrical, and Security Systems Allowances do not apply to ground disturbing activities
 - a. In-kind repair or in-kind replacement, or limited upgrading of interior utility systems, including mechanical (e.g., heating, ventilation, air conditioning),

electrical, and plumbing systems. This Allowance does not provide for the installation of new exposed ductwork or the lowering of ceilings to accommodate mechanical, electrical, and security systems. This Allowance does not apply to character defining features (e.g. grilles) where exposed to view. Surface-mounted wiring, conduits, or piping is acceptable provided that installation of system hardware does not damage or cause the removal of character-defining architectural features or materials, and can be easily removed in the future. This Allowance does not include increasing the size (e.g. width, depth, length) of existing channels or cuts in historic material.

- b. The elevation of heating, ventilation, and air conditioning system (HVAC) and mechanical equipment within a structure or on a roof provided that it is not visible from the ground level.
- c. Installation or replacement of interior fire detection, fire suppression, or security alarm systems. Surface-mounted wiring, conduits, or piping is acceptable provided that installation of system hardware does not damage or cause the removal of character-defining architectural features or materials, and can be easily removed in the future. This Allowance does not include increasing the size (e.g. width, depth, length) of existing channels or cuts in historic materials.
- d. Installation or replacement of communication and surveillance security systems, such as cameras, closed-circuit television (CCTV), alarm systems, and public address systems. Surface-mounted wiring, conduits, or piping is acceptable provided that installation of system hardware does not damage or cause the removal of character-defining architectural features or materials, and can be easily removed in the future. This Allowance does not include increasing the size (e.g. width, depth, length) of existing channels or cuts in historic materials.
- e. Installation of building access security devices, such as card readers, enhanced locks, and security scanners (e.g., metal detectors), provided the device does not damage or cause the removal of character-defining architectural features or materials and can be removed in the future without impacts to significant architectural features.
- f. Providing openings and installation of flood resistant materials above ground only in a building that is less than fifty (50)-years of age (construction date as noted in the project documentation, or by the Requester, or by a photograph/site visit) to allow in water in conjunction with floodproofing.

2. Windows and Doors

- a. In-kind repair of damaged or severely deteriorated historic windows and window frames, shutters, storm shutters, doors and door frames, and associated hardware, where profiles, elevations, details and materials match

those of the originals. Whenever possible original materials should be retained for future information and/or repair and/or reuse.

- b. In-kind replacement of window panes. Clear plate, double, laminated or triple insulating glazing can be used, provided it does not result in altering or damaging the existing window material, tint, form, muntin profiles, or number of divided lights. This Allowance does not apply to the replacement of intact decorative or archaic glass. Historic windows or glazing may be treated with clear window films.
 - c. Replacement of exterior, utilitarian, non-character-defining metal doors and frames leading into non character-defining spaces with metal blast resistant doors and frames.
 - d. Installation of security bars over windows on off-street elevations that does not result in additional damage to character-defining features.
 - e. In-kind repair or in-kind replacement of interior or exterior protective shutters, storm screens, screen drops, storm fabric, interior blast shields, and door glazing.
 - f. Removal of non-contributing, incompatible windows and/or doors which were replaced within the past fifty (50) years and their replacement with new window, door, and hardware which meets the *Standards*.
 - g. Strengthening of entry doors and bracing of garage doors provided they do not result in altering the existing door form and appearance.
3. Exterior Walls, Cornices, Porches, and Foundations (for any proposed ground disturbance, refer to II)
- a. In-kind repainting of surfaces, provided that destructive surface preparation treatments are not used, such as water blasting, sandblasting, power sanding and chemical cleaning.
 - b. In-kind repair of walls, porches, foundations, columns, cornices, siding, balustrades, stairs, dormers, brackets, trim, and their ancillary components or in-kind replacement of severely deteriorated or missing or lost features, as long as the replacement pieces match the original in detail, design, profile, proportion, and material.
 - c. In-kind repair or in-kind replacement of signs or awnings.
 - d. Installation of temporary stabilization bracing or shoring, provided such work does not result in additional damage and is reversible.

- e. Anchoring of walls to floor systems provided the anchors are embedded and not visible on the exterior; are reversible to the greatest extent possible, and does not result in additional damage or alteration to character-defining features.
- f. In-kind repair of concrete and masonry walls, columns, parapets, chimneys, or cornices or limited in-kind replacement of damaged components including comparable brick, and mortar that is as soft or softer than and matches the color, content, rake, and joint width of historic mortar.
- g. Bracing and reinforcing of walls, chimneys and fireplaces, provided the bracing and reinforcing are not visible on the exterior; is reversible to the greatest extent possible, and does not result in additional damage or alteration to character defining features.
- h. Strengthening of foundations and the addition of foundation bolts, provided that visible new work is in-kind, including mortar that matches the color, content, rake, tooling, and joint width where occurring.
- i. In-kind repair or in-kind replacement of elements of curtain wall assemblies or exterior cladding that is hung on the building structure, usually from floor to floor, and when the color, size reflectivity, materials, and visual patterns are unaltered.

4. Roofing

- a. Installation of scaffolding, polyethylene sheeting, or tarps, provided such work will not result in additional damage or irreversible alterations to character defining features.
- b. In-kind repair or replacement, or strengthening of roofing, rafters, fascia, soffits, gutters, verge boards, leader boxes, downspouts, or other damaged roof system components provided that work does not result in alterations to character defining features.
- c. Repairs to flat roof cladding, including changes in roofing materials, where the repairs are not highly visible from the ground level.
- d. Replacement of three-tab asphalt singles with dimensioned architectural shingles; replacement of cement asbestos shingles with asphalt-based shingles or other roofing of similar appearance to the original such as slate; in-kind replacement of metal roofing materials; replacement of corrugated asbestos panels with corrugated metal panels or other roofing of similar appearance to the original; and replacement of untreated wood shingles or shakes with similar items of fire resistant wood.

5. Weatherproofing and Insulation

- a. Caulking and weather-stripping to complement the color of adjacent surfaces or sealant materials.
- b. In-kind repair or in-kind replacement of insulation systems, provided that existing interior plaster, woodwork, exterior siding, or exterior architectural detail is not altered. This Allowance does not include spray foam insulation of any kind.

D. STRUCTURAL RETROFITS (for any proposed ground disturbance, refer to II)

1. The installation of the following retrofits/upgrades, provided that such upgrades are not visible on the exterior or within character-defining historic interiors; is reversible to the greatest extent possible, and does not result in additional damage or alterations to character defining features: attic bracing, cross bracing on pier and post foundations; fasteners; collar ties; gussets; tie downs; strapping and anchoring of mechanical, electrical, and plumbing equipment; concealed anchoring of furniture; installation of plywood diaphragms beneath first floor joists, above top floor ceiling rafters, and on roofs; and automatic gas shut off valves.
2. Replacement, repair or installation of lightning rods.
3. Anchoring of buildings to resist flotation, collapse, and lateral movement provided the anchors are not visible on the exterior, is reversible to the greatest extent possible, and does not result in additional damage or alteration to character defining features.
4. The installation of the following upgrades, provided that such upgrades are not visible on the exterior, not attached to character-defining structural elements, and is reversible to the greatest extent possible: installation of tie down straps;; anchoring of fuel tanks; installation of backflow valves; bracing of building contents.
5. Bracing and bolting of walls to address hydrostatic and hydrodynamic forces provided the bracing is not visible on the exterior, is reversible to the greatest extent possible and does not result in additional damage or alteration to character defining features.
6. The installation of attached porches or concrete patios provided, the square footage is limited and it does not result in additional damage or alteration to character defining features.

E. ELEVATION, DEMOLITION, AND RECONSTRUCTION

- a. Activities related to the elevation, demolition and/or reconstruction of buildings or structures less than fifty (50)-years of age (construction date as

noted in the project documentation, or by the Requester, or by a photograph/site visit) so long as the proposed activities substantially conform to the existing footprint, the buildings or structures are not located within or adjacent to a National Register-listed or eligible historic district or within one-thousand (1,000)-feet of a known eligible or unassessed archaeological site.