

# EECBG Webinar

Energy Efficiency in Existing Buildings and an Overview of Section 106 of the National Historic Preservation Act of 1966



# Welcome and Introductions



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# Energy Efficiency Conservation Block Grant Program



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# Intro to Historic Preservation & Section 106 Overview



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# National Historic Preservation Act of 1966

- National Register of Historic Places
- State Historic Preservation Offices
- Historic Preservation Fund
- Advisory Council on Historic Preservation
- Section 106 Review Process
- Was a reaction to the loss or improper alteration of many historic properties
- Intended to preserve the cultural and historic resources of this nation



# Is my Building “Historic”?

- Is at least 50 years old –and-
- In a designated Historic District –or-
- Individually Listed in the National Register of Historic Places –or-
- Is eligible for listing in the NRHP (either in a district or individually) –or-
- Is subject to an approved Preservation Easement

# Types of Historic Designation

**Building, Structure,  
Object, Site, or District**



- A. Associated with significant events
- B. Associated with significant persons
- C. Distinctive architecture/ construction/ style
- D. May yield more information (archeology)



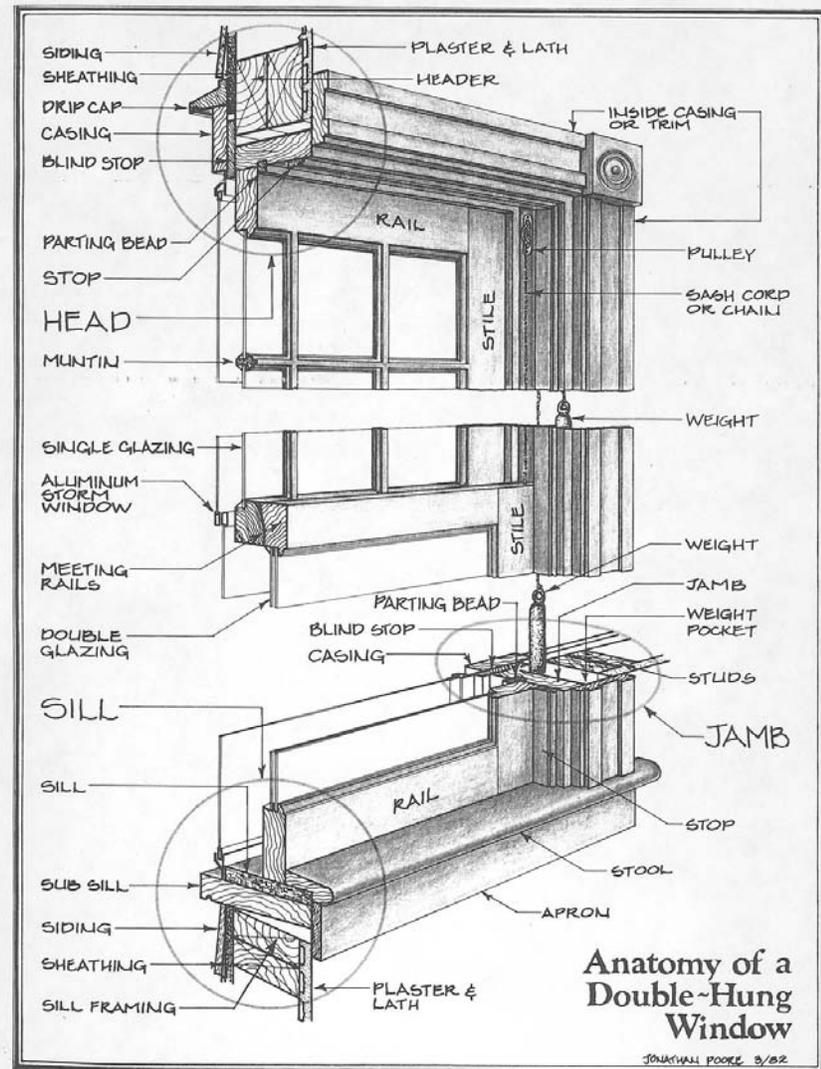
Local, State, or National Significance

- Integrity
- Non-contributing structures
- Alteration of “character defining” features

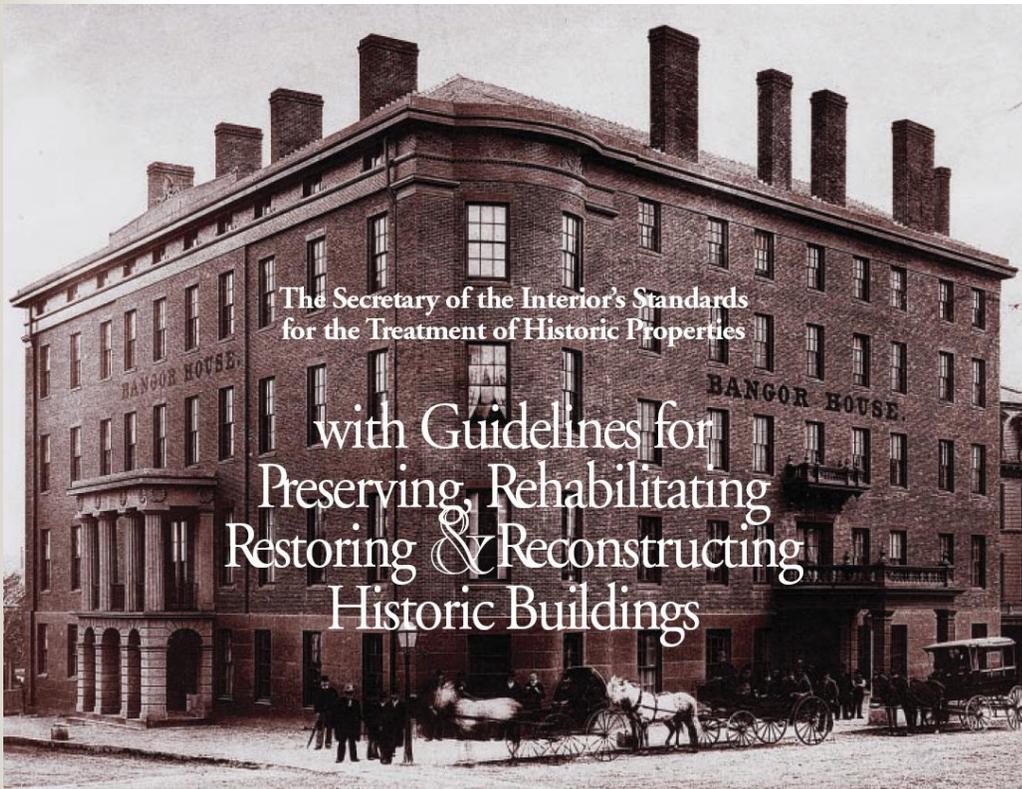


- Existing window repair & upgrades:

- Repainting
- Weather-stripping
- Caulk open joints
- Replace glazing
- Adjust operation
- Sash locks
- Storm Windows



# Appropriate Treatments



- Preservation
- Restoration
- Reconstruction
- Rehabilitation



# 1. Preservation

- 
- Lowering thermostat in winter/ raise in summer
  - Control temperature in those rooms actually used
  - Reduce the level of illumination  
(maximize natural light)
  - Compact Fluorescent bulbs
  - Using operable windows, shutters, vents  
(maximize fresh air)
  - Service mechanical equip. frequently (& filters)
  - Clean radiators and forced air registers

Can save as much as 30% of energy used

## “Passive” Energy Measures



## 2. Restoration



### 3. Reconstruction

“The act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values.”



## 4. Rehabilitation

- 
- Air infiltration (caulk & weatherstrip)
  - Attic insulation (vapor barrier/ vents)
  - Storm Windows
  - Basement/ crawl insulation
  - Duct and pipe insulation
  - Permanent Awnings (operable)
  - Plant deciduous trees
  - Doors/ storm doors
  - Add vestibules
  - Replace windows
  - Add wall insulation

Could save an additional 20%-30%

“Retrofit” Energy Measures



# Questions about Energy Efficiency and Existing Structures?





## What is Section 106?

- Section 106 is an *environmental law* pertaining to cultural resources and the built environment.
- *Planning tool* to ensure that historic properties are considered when affected by federal *undertakings*:
  - Project using Federal funds; or
  - Project requires a Federal license (i.e. FCC license for cell tower construction); or
  - Project requires a Federal permit (i.e. Corps of Engineers permit to construct a marina)



# The Section 106 Process

- Determine if your project meets the definition of an undertaking.  
An undertaking is any federally-assisted activity that has the *potential* to affect historic properties.
- Federal agencies must then take steps to identify historic properties and the impact an undertaking will have on them.
- We begin to look for historic properties once we understand that there is a potential for them to be impacted.



# The Section 106 Process

## Area of Potential Effects (APE)

- Defined as the geographic area or areas within which an undertaking may directly, or indirectly, cause changes in the character or use of historic properties.
- Where we look for historic properties affected by an undertaking.
- For interior work, limited to the subject building
- For exterior work, will look at adjacent structures



- Visual effects  
(cell towers)
- Audible effects  
(road noise)
- Sociocultural effects  
(land use)  
(traffic patterns)
- public access
- Indirect effects  
(erosion)
- Ground-disturbing  
activities



## The Section 106 Process

- Establish as Undertaking
- Have Identified the APE
- Have Identified historic resources in APE

- Determine effects:

*No historic properties effected (good!)*

*No adverse effect on historic properties (good!)*

*Adverse effect on historic properties (not so good)*



# The Section 106 Process

Adverse effects in relation to EECBG program:

- Both interior and exterior are reviewed
- Damage to, or removal of, original features
- Inappropriate repairs with non-matching materials
- New design that is non-compatible (windows)
- New HVAC systems that alter significant features
- Exposed pipes, ducts, and cables
- Enclosing or covering existing features

# The Section 106 Process

- Section 106 continues under normal review
- With Energy Efficiency program, review stops with adverse effect designation
- Jessica Williams at DeLEG will facilitate consultation with the SHPO



Re-apply to next round of  
EECB grants

BUREAU OF ENERGY SYSTEMS / STATE HISTORIC PRESERVATION OFFICE  
Application for Section 106 Review

BESSHPO Use Only			
<input type="checkbox"/> IN	Received Date ____ / ____ / ____	Log In Date ____ / ____ / ____	
<input type="checkbox"/> OUT	Response Date ____ / ____ / ____	Log Out Date ____ / ____ / ____	
	Sent Date ____ / ____ / ____		

This application is required if your building is: fifty years of age or older; listed or eligible for listing on the National Register of Historic Places; or located in a historic district or eligible historic district. For further information on the National Register of Historic Places eligibility and listings please refer to: <http://www.nps.gov/nr/>

Submit one copy for each project for which review is requested. Please type application. Applications must be complete for review to begin. Incomplete applications will be sent back to the applicant without comment. Send only the information and attachments requested on this application. Materials submitted for review cannot be returned. Due to limited resources we are unable to accept this application electronically.

### I. GENERAL INFORMATION

THIS IS A NEW SUBMITTAL

- Organization Name:
- Organization Address (if available):
- Municipal Unit: County: Township:
- State Agency (if applicable), Contact Name and Mailing Address:
- Consultant or Applicant Contact Information (if applicable) including mailing address:

### II. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.)

DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY?  YES  NO (if no, proceed to section III.)

Exact project location must be submitted on a USGS Quad map (portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked). A USGS Quad map can be acquired by referring to: TerraServer USA <http://terraserver-usa.com/web/services.aspx>

- USGS Quad Map Name:
- Township: Range: Section: (You can obtain this information from your local unit of government, Register of Deeds Office, Sanborn Fire Insurance Maps, etc.)
- Description of width, length and depth of proposed ground disturbing activity:
- Previous land use and disturbances:
- Current land use and conditions:
- Does the landowner know of any archaeological resources found on the property?  YES  NO  
Please describe:

### III. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Note: Every project has an APE. For further information on locating an APE visit: <http://mishporehab.wordpress.com/fag/>

- In 6-7 sentences, provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. cannot be substituted for the written description).
- Provide a localized map indicating the location of the project; road names must be included and legible. (You can obtain this information by accessing Mapquest, Google Maps, etc.)
- On the above-mentioned map, identify the APE.
- Provide a written description of the APE (physical, visual, auditory, and sociocultural), the steps taken to identify the APE, and the justification for the boundaries chosen.

### IV. IDENTIFICATION OF HISTORIC PROPERTIES

- List and date all properties 50 years of age or older located in the APE. If the property is located within a National Register eligible, listed or local district it is only necessary to identify the district.
- Describe the steps taken to identify whether or not any historic properties exist in the APE and include the level of effort made to carry out such steps:
- Based on the information contained in "b", please choose one:  
 Historic Properties Present in the APE  
 No Historic Properties Present in the APE
- Describe the condition, previous disturbance to, and history of any historic properties located in the APE:

### V. PHOTOGRAPHS

Note: All buildings or structures 60 years of age or older are required to have photographs and must be keyed to a localized map. Faxed or photocopied pictures are not acceptable.

- Provide photographs of the site itself.
- Photographs are required of the interior of the building or structure if the project entails alterations to the interior.

### VI. DETERMINATION OF EFFECT

- No historic properties affected based on [36 CFR § 800.4(d)(1)], please provide the basis for this determination.
- No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36 CFR Part 800.5(a)(1), were found not applicable.
- Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of adverse effect, [36 CFR Part 800.5(a)(1)], were found applicable.

Please print completed form and attach to RFP  
Bureau of Energy Systems, 611 W. Ottawa, P.O. Box 30221, Lansing, MI 48909



## Section 106 information:

- The Section 106 regulations can be found on the Advisory Council on Historic Preservation website at [www.achp.gov](http://www.achp.gov)
- Additional websites include:
  - National Park Service at [www.nps.gov](http://www.nps.gov)
  - USGS website at <http://topomaps.usgs.gov/>
  - Terraserver maps at [www.terraserver.com](http://www.terraserver.com)
  - Secretary of the Interior's Standards:  
<http://www.nps.gov/history/hps/tps/tax/rhb/>



# Energy Efficiency information:

- SHPO Window reference:  
<http://mishporehab.wordpress.com/windows/>
- National Trust for Historic Preservation weatherization guide:  
<http://www.preservationnation.org/issues/weatherization/>
- NPS Preservation Brief No. 3: Conserving Energy in Existing Buildings:  
[www.nps.gov/history/hps/tps/briefs/brief03.htm](http://www.nps.gov/history/hps/tps/briefs/brief03.htm)
- NPS Weatherization Guide:  
[www.nps.gov/history/hps/tps/weather](http://www.nps.gov/history/hps/tps/weather)

# Contact Information

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# **Additional Questions?**

Thank You for Attending and  
Good Luck with your Projects!