



Historic Preservation Within the National Park Service: It's Role in Stewardship & Real Property Portfolio Management

May 16th, 2024

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Park Programs & National Heritage Areas, Cultural Resources, Partnerships, & Science Directorate (NPS)**

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Major Construction Division, Park Planning, Facilities & Lands (NPS)**



NPS Cultural Resources, Partnerships, and Science Directorate (CRPS)

The **Cultural Resources, Partnerships, and Science Directorate** provides leadership for the protection and interpretation of the nation's heritage, guides a national historic preservation program that embraces national parks and heritage resources, engages all American peoples with the places and stories that make up their national identity, and serves as a model for the stewardship of cultural resources throughout the world.

Three Units within CRPS:

Technical Preservation Services (TPS)

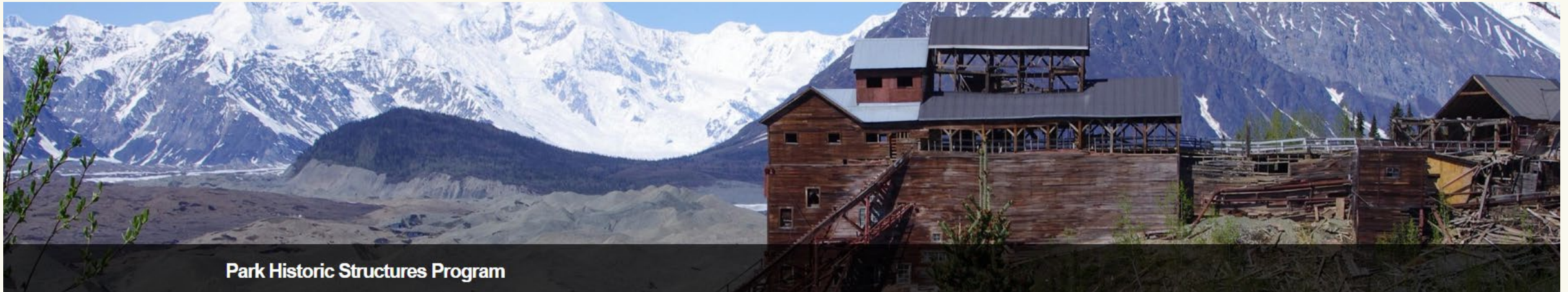
National Center for Preservation Technology & Training

Park Programs & National Heritage Areas



Photos courtesy of the Carol M. Highsmith Archive, Library of Congress

NPS Cultural Resources, Partnerships, and Science Directorate (CRPS)



Park Historic Structures Program

- Historic Structures
- Cultural Landscapes
- Archeological Resources
- Ethnographic Resources



The home of President Harry S Truman at 219 N. Delaware, Independence Missouri on May 2, 1950.
L.D. Jones (Harry S Truman Library & Museum)

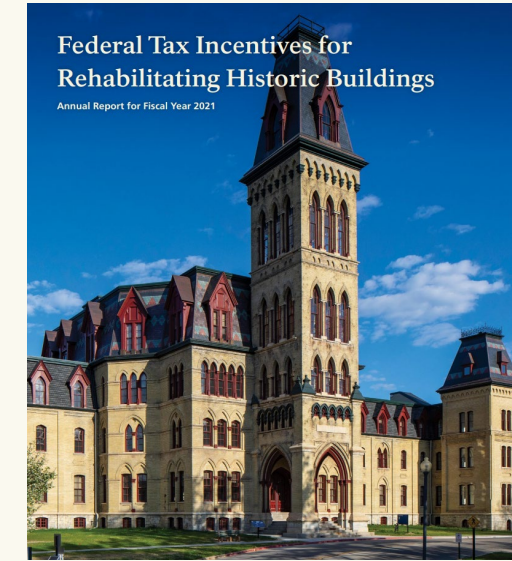
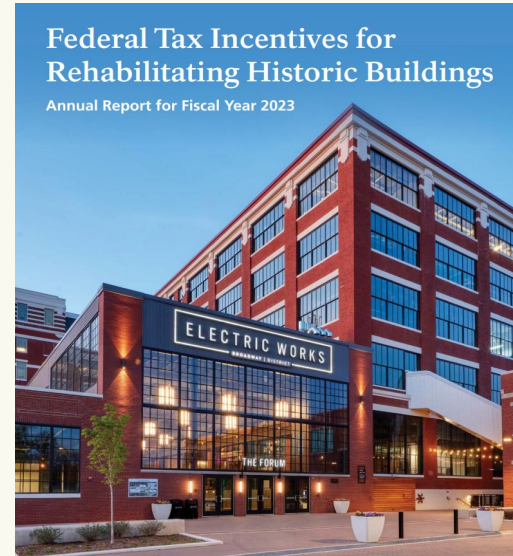


The Paradise Inn in 1940-41. The Inn contributes to the National Historic Landmark District as well as being independently designated a National Historic Landmark for its architectural style.
Mount Rainier National Park Archives

NPS Cultural Resources Partnerships & Science Directorate (CRPS)

External (Public) Programs

- National Register of Historic Places
- Historic Preservation Tax Incentives
- Historic Surplus Property Program
- American Battlefield Protection Program
- HABS/HAER/HALS Program



Internal (Park) Programs

- Park Museum Management Program
- National Heritage Areas
- National Cemetery Investment Initiative
- Historic Structures & Cultural Landscapes



The Lincoln Home is the first and only home Abraham Lincoln owned. *NPS Photo*

NPS & National Historic Preservation Laws

NHPA of 1966:

- Establishes a National Historic Preservation Program
- Establishes the National Register of Historic Places
- Establishes Section 106 (Consider actions Historic Resources)
- Establishes Section 110 (Identifying/Evaluating/Protecting)
- Establishes the Historic Preservation Fund (HPF)—for SHPO's
- Establishes the Advisory Council on Historic Preservation



Birmingham Civil Rights National Monument Leaders of the Southern Christian Leadership Conference resided at the Gaston Motel during the campaign to desegregate Birmingham.

National Historic Preservation Act of 1966, amended

The Congress finds and declares that

- The spirit and direction of the Nation are founded upon and reflected in its historic heritage
- Our historical and cultural foundations should be preserved as a living part of our lives to give a sense of orientation to the American people
- Historic properties significant to the nation's heritage are being lost or substantially altered, often inadvertently, with increasing frequency
- The preservation of this irreplaceable heritage is in the public interest, so that it will be maintained and enriched for future generations

Secretary of Interior's Standards for Treatment of Historic Properties

- ## Preservation

- **Preservation** is defined as the act or process of applying measures necessary to sustain the existing form, integrity, and materials of an historic property. Work, including preliminary measures to protect and stabilize the property, generally focuses upon the ongoing maintenance and repair of historic materials and features rather than extensive replacement and new construction. New exterior additions are not within the scope of this treatment; however, the limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties functional is appropriate within a preservation project.

- ## Rehabilitation

- **Rehabilitation** is defined as 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.

- ## Restoration

- **Restoration** is defined as the act or process of accurately depicting the form, features, and character of a property as it appeared at a particular period of time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period. The limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties functional is appropriate within a restoration project.

- ## Reconstruction

- **Reconstruction** is defined as the act or process of depicting, by means of new construction, the form, features, and detailing of a non-surviving site, landscape, building, structure, or object for the purpose of replicating its appearance at a specific period of time and in its historic location.



THE SECRETARY
OF THE INTERIOR'S
**STANDARDS FOR
THE TREATMENT
OF HISTORIC
PROPERTIES**
WITH
**GUIDELINES FOR
PRESERVING,
REHABILITATING,
RESTORING &
RECONSTRUCTING
HISTORIC
BUILDINGS**



U.S. Department of the Interior
National Park Service
Technical Preservation Services

NPS Technical Preservation Services (TPS) Publications

October 5, 2023

National Park Service
U.S. Department of the Interior




Technical Preservation Services News


New Guidance on the Use of Substitute Materials

16 PRESERVATION BRIEFS

The Use of Substitute Materials on Historic Building Exteriors

John Sandor, David Trayte, and Amy Elizabeth Uebel



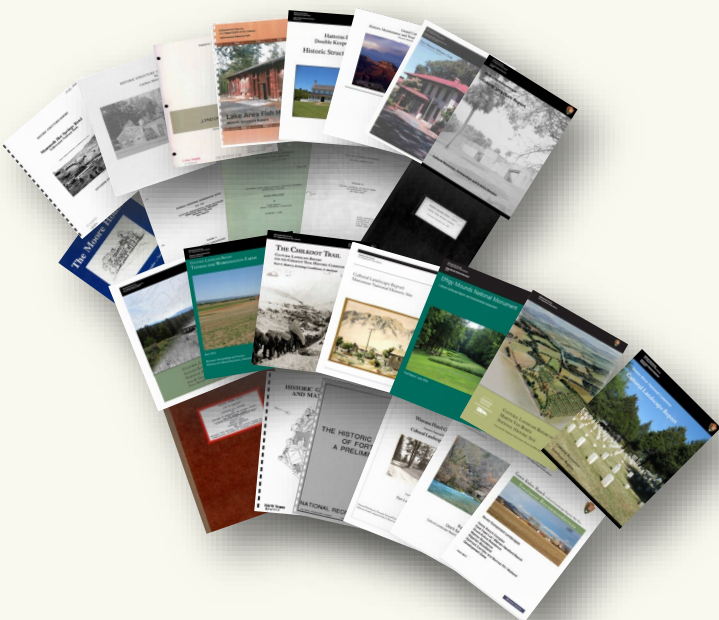


National Park Service
U.S. Department of the Interior
Technical Preservation Services

The NPS has issued new guidance on historic buildings and the use of substitute materials. The new guidance provides additional direction as well as technical preservation information on when a different material than the historic one may be appropriately used to replace a deteriorated or missing historic feature, consistent with the [Secretary of the Interior's Standards for Rehabilitation](#).

The new guidance updates existing guidance on the use of substitute materials to be more consistent with other recent NPS guidance and to ensure that it continues to reflect current and best practices. Revised guidance takes into account such factors as availability, performance, location/visibility, code requirements, and sustainability/resilience of the proposed new and historic materials or features. The guidance continues to recognize that flexibility may sometimes be needed when it comes to new and replacement materials as part of a historic rehabilitation project.


- Standards & Guidelines
- Tools & Information
- Historic Preservation Publications
 - Preservation Briefs
 - Bulletins
 - HP Tech Notes
- Training Webinars




48 PRESERVATION BRIEFS

Preserving Grave Markers in Historic Cemeteries

Mary F. Strong, Frances Gale, Jason Church, & Debbie Dietrich-Smith



National Park Service
U.S. Department of the Interior
Technical Preservation Services



Cemeteries found across the country are not only places of burial, but they also provide a vivid record of community history. Whether large or small, well maintained or neglected, historic cemeteries are an important part of our cultural landscape. The vast richness of expression through form, decoration and materials informs our understanding of the individuals buried in historic cemeteries and their cultural significance.

While cemeteries are often considered to be perpetual, their most prominent feature—the grave markers—are not. They weather, naturally decay, often are poorly maintained and repaired and, on occasion, are vandalized (Fig. 1). Grave markers are usually noteworthy not only for their inscriptions but also for their craftsmanship. Exceptional markers are considered works of art.

This Preservation Brief focuses on a single aspect of historic cemetery preservation—providing guidance for owners, property managers, administrators, in-house maintenance staff, volunteers, and others who are responsible for or are interested in preserving and protecting grave markers. Besides describing grave marker materials and the risk factors that contribute to their decay, the brief provides guidance for assessing their conditions and discusses maintenance programs and various preservation treatments.

Also identified are a number of excellent references that address materials used in all grave markers, including several other Preservation Briefs (listed in Additional Reading). This Brief highlights particular issues that should be considered with historic grave markers.

Types of Traditional Grave Markers

The great variety in the types of grave markers is a fascinating aspect of the study and appreciation of historic cemeteries. Three broad categories can be used to describe grave markers: (1) single-element, (2) multiple-element, and (3) structures. Single-element grave markers are stone, cast iron, or wood elements that are set in a vertical position or placed as a horizontal slab on the ground (Fig. 2). Early examples of this simplest type of grave markers are field stone and basic wooden or wrought iron crosses, with the name of the deceased person scratched into or engraved on the marker. Often, these rudimentary grave markers are overlooked, significantly deteriorated, or lost. Vertical stone slabs and large stone ledgers laid horizontally over the grave are more sophisticated examples of this type.

Multiple-element grave markers are found in a number of different forms. In the most typical form, a grave marker would consist of two stones—an upper headstone placed on top of a base stone. The upper headstone may be secured in a number of different ways to the base. In the simplest forms, the upper stone was placed on the base, set in a bed of mortar on top of the base, or joined with pins and mortar. With a "band-

50 PRESERVATION BRIEFS

Lightning Protection for Historic Structures

Charles E. Fisher



National Park Service
U.S. Department of the Interior
Technical Preservation Services



Introduction

The loss of historic buildings as a result of lightning strikes makes local front-page news every year. Lightning strikes make no distinction between historic properties and other types of structures. Historic barns, churches, museums, homes, stores, factories, lighthouses, schools, and other buildings, as well as structures such as tall monuments, may be at unnecessary risk of damage or loss as a result of a strike by lightning.

The insurance industry reports that 9% of all claims are lightning-related in the U.S., with annual building damage estimated as high as \$1 billion according to Underwriters Laboratories, Inc. Certain types of structures are especially susceptible to damage, particularly churches where lightning accounts for nearly one-third of all church-building fires each year (Fig. 1).

Lightning protection systems in the United States date back to colonial days and the time of Benjamin Franklin.

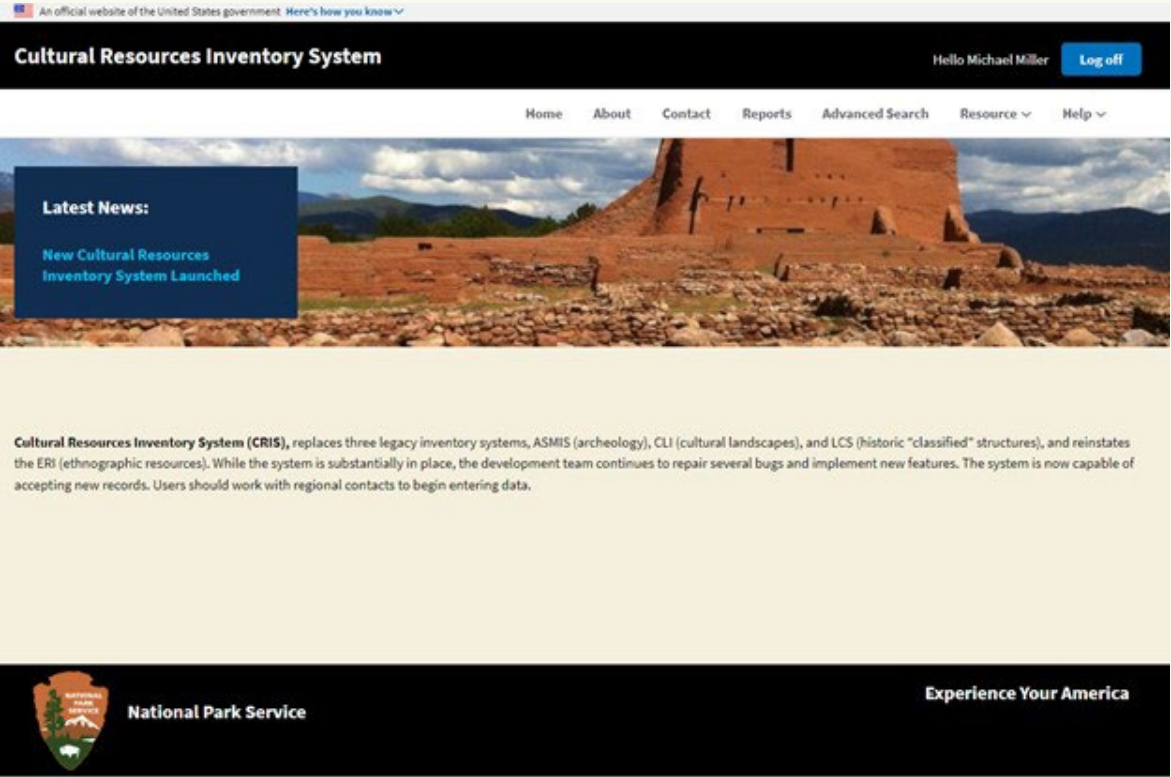
What Causes a Lightning Strike?

During violent storms, ice particles form in the atmosphere and collide with each other, resulting in a transfer of negative ions among ice particles. Smaller ice particles or crystals tend to have negative ions becoming positively charged, and are then carried through updrafts to the upper levels of the clouds. Heavier ice particles gain negative charges and settle below within the clouds. Lightning is produced when these oppositely charged cloud values create high electric fields—nature's way of releasing the imbalance.

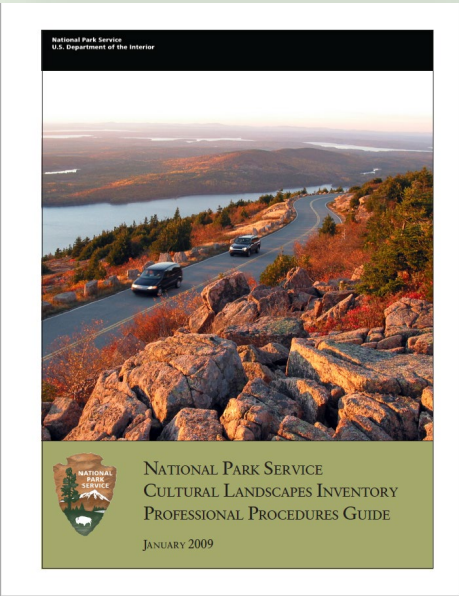
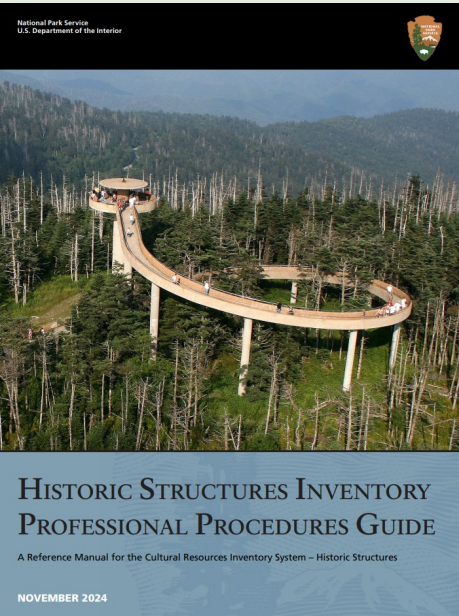
The most typical negative electrical charges travel in leaders or about 150-foot segments. During thunderstorms, bursts of negative charges extend closer to the ground. Under such conditions, higher exposed areas tend to be lightning during a storm thunderstorm.

Photo: Paul Brown/istockphoto.com

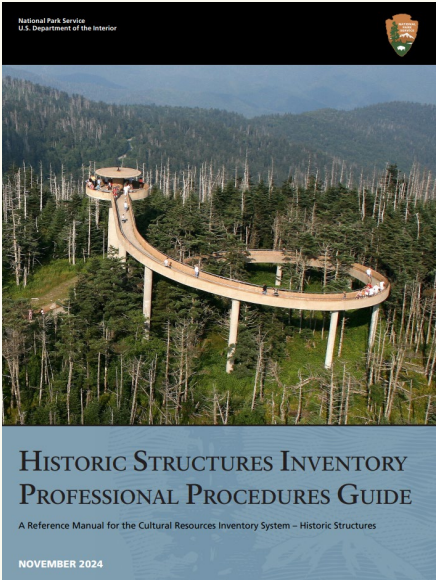
NPS Cultural Resources Inventory System (CRIS)



- Historic Structures
- Archeological Resources
- Cultural Landscapes
- Ethnographic Resources



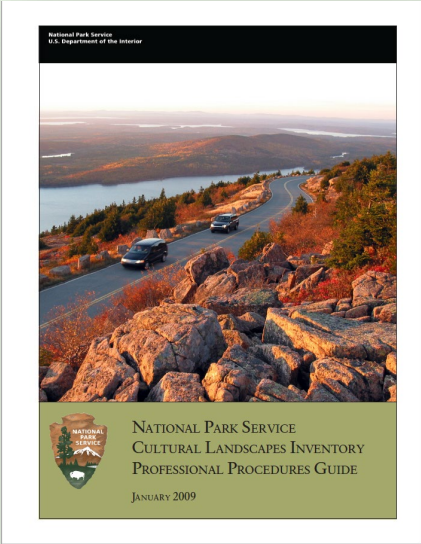
NPS Cultural Resources Inventory System (Historic Structures)



CRIS-HS - EOY FY2023 Final Summary 09/30/2023																		
Interior Region	Number of CRIS-HS Structures						CRIS-HS Structures Complete, Accurate, and Reliable (CAR) Information						CAR Structures listed in Good Condition					
	2019	2020	2021	2022	2023	Change	2019	2020	2021	2022	2023	Change	2019	2020	2021	2022	2023	Change
Alaska	681	681	709	723	722	-1	426	359	289	313	374	61	213	191	159	179	205	26
Intermountain	5,981	6,016	6,027	6,108	6,070	-38	2,599	2,265	1,907	1,902	1,906	4	1,921	1,636	1,360	1,395	1,325	-70
Midwest	2,625	2,618	2,614	2,612	2,608	-4	2624	2,618	2,614	2,557	2,608	51	1,862	1,854	1,845	1,800	1,810	10
National Capital	3,198	3,183	3,182	3,195	3,193	-2	3,177	3,171	3,165	3,160	3,172	12	2,073	2,050	2,035	1,941	1,903	-38
Northeast	4,866	4,871	4,866	4,923	5,089	166	4,866	4,871	4,866	4,923	5,089	166	2,980	2,995	2,988	3,005	3,115	110
Pacific West	5,442	5,489	5,769	5,815	6,023	208	4,553	5,379	5,649	5,815	6,023	208	2,474	2,789	2,884	2,906	2,844	-62
Southeast	3,463	3,464	3,470	3,507	3,567	60	3,417	3,411	2,980	2,864	2,707	-157	2,461	2,456	2,177	2,108	2,012	-96
Service Wide	26,256	26,322	26,637	26,883	27,272	389	21,662	22,074	21,470	21,534	21,879	345	13,984	13,971	13,448	13,334	13,214	-120
							This data set reflects data with a next assessment date >09/30/2023											

NPS Cultural Resources Inventory System (Cultural Landscapes)

Certified CLIs in Good Condition											
Region	2017	2018	2019	2020	2021	2021 % in good condition	2022	2022 % in good condition	2023	2023 % in good condition	Change
AKR	18	15	19	19	18	35%	17	31%	16	30%	-1%
IMR	66	67	66	65	58	45%	67	52%	70	54%	2%
MWR	88	89	87	86	72	46%	96	60%	97	60%	0%
NCR	53	50	52	53	47	50%	53	53%	50	49%	-4%
NER	59	92	95	96	72	42%	108	59%	111	59%	0%
PWR	35	38	41	41	39	21%	51	26%	61	29%	3%
SER	57	65	66	66	47	46%	66	50%	68	50%	0%
Service Wide	376	416	426	426	353	41%	451	47%	473	47%	0%



NPS Cultural Resources Inventory System Historic Structures (CRIS-HS)

Attributes/Tabs for CRIS-HS

- Location Info
- Superintendent Concurrence
- Management Info
- National Register Status
- Chronology
- Use
- Analysis & Evaluation
- Condition
- Treatment
- Attachments (Other Info & Photos)

Resource

Park	Carl Sandburg Home National Historic Site	Resource Type	Cultural Landscape
Resource ID	550096	Resource Name	Carl Sandburg Home
Record Status	Published	Record Type	Production
Record Mode	View Mode	Resource Level	Cultural Landscape

[Change Log](#)

[Cancel](#) [Copy Shareable Link](#) [Edit](#)

Geographic Management National Register Chronology Uses Analysis & Evaluation Condition Treatment Bibliography & Supplemental

Management Category (*Required) Must be Preserved and Maintained Management Category Date (*Required) 08/21/2023

Management Category Narrative

Authorized October 17, 1968, Public Law 90-592 established Carl Sandburg Home National Historic Site. In concert with this authorization, Carl Sandburg Home National Historic Site was designated a National Historic Landmark (NHL) and was listed in the National Register of Historic Places with a national level of significance due to its association with the life and work of Carl Sandburg. The enabling legislation states:

“That the Secretary of the Interior is authorized to receive, by donation or purchase with donated or appropriated funds, all or some of the structures and improvements thereon

Management Agreements

Seq. No.	Management Agreement	Other Management Agreement	Management Agreement Expiration Date	Management Agreement Narrative
1				

No items to display

Legal Interests

Seq. No.	Legal Interest Type	Fee Simple Reservation Expiration Date	Other Organization/Agency	Legal Interest Narrative
1				

No items to display

NPS Cultural Resources Inventory System

Historic Structures (CRIS-HS)

Park: Carlsbad Caverns National Park (CARL)

Resource ID #: 061734

Resource Type: Historic Structure

Resource Name: Caverns HD Multiple Dwelling Unit #1

Resource

Park	Carlsbad Caverns National Park	Resource Type	Historic Structure
Resource ID	061734	Resource Name	Caverns HD Multiple Dwelling Unit #1
Record Status	Published	Record Type	Production
Record Mode	View Mode		

Change Log

Cancel

Copy Shareable Link

Edit

Concurrence

Condition

References

Management

NR/NHL

Chronology & Physical Description

Location

Treatment

Uses

Attachments

Concurrence Files

Seq. No.	Preview	File Name	Caption	Narrative	Alt Text	Date	Attachment Type
1		CavernsHD-Above_850217_IMG_4538_FeatID_11042021.JPG	Elevation			11/04/2021	
2		CavernsHD-Above_850217_IMG_4539_FeatID_11042021.JPG	Elevation			11/04/2021	
3		CavernsHD-Above_850217_IMG_4540_FeatID_11042021.JPG	Elevation			11/04/2021	
4		CavernsHD-Above_850217_IMG_4541_FeatID_11042021.JPG	Elevation: courtyard			11/04/2021	



NPS Integrated Resource Management Applications (IRMA)

Welcome to IRMA

The Integrated Resource Management Applications (IRMA) Portal provides easy access to National Park Service applications that manage and deliver resource information to parks, partners and the public.

- **NPS Histories**
- **Historic Structures Reports**
- **Historic Resources Series**
- **Historical Handbook Series**
- **Cultural Landscape Management Plans**
- **Cultural Landscape Reports**
- **Cultural Landscape Guidance Documents**
- **Historic Furnishings Reports**
- **National Historic Landmark Theme Studies**

NPS DataStore
Integrated Resource Management Applications
Data Store-2.12.0.24220-20240423-110809

National Park Service
U.S. Department of the Interior
Natural Resource Stewardship and Science

Home Search Reports Create My Content Help Contact Us

mwmler

NPS DataStore Home

The DataStore application is a digital repository for the National Park Service that provides tools for adding, organizing, and discovering documents and datasets relevant to park resources.

[Quick Search](#) [Advanced Search](#)


Frequently Requested

- Park Boundaries**
Current version of park boundaries (administrative boundaries) in GIS file format
- Park Science**
Park Science reports the findings of recent and ongoing natural and social science and related cultural research and their implications for park planning, management, and policy
- Featured Content**
Reports presenting collections of DataStore content featured by a park, office, or program. More choices soon!
- Top Viewed References**
The most frequently viewed/downloaded records in the DataStore

History and Cultural Resources

- All E-History References**
Browse the large collection of documents relating to the history of the National Park Service
- Administrative Histories**
Accounts of the origin and evolution of Park units
- Cultural Landscape Guidance Documents**
Reference materials providing guidance for the preservation of cultural landscapes
- Cultural Landscape Inventories**
Evaluated inventories of landscapes listed or eligible for the National Register of Historic Places
- Cultural Landscape Management Plans**
Plans that identify management objectives and needs of cultural landscapes
- Cultural Landscape Reports**
Primary reports documenting the history, significance and treatment of a cultural landscape
- Historic Furnishing Reports**
Reports documenting the furnishings exhibited in associated historic structures
- Historic Resource Studies**
Assessments of known historic properties to address their eligibility to the National Register of Historic Places
- Historic Structure Reports**
Guides for changes made to a historic structure during repair, rehabilitation, restoration, or reconstruction
- Historical Handbook Series**
Reports to assist park management and staff to develop programs and displays on history and archeology
- National Historic Landmark Theme Studies**
Reports providing a national historic context for specific topics in American history or prehistory relevant to National Historic Landmarks

NPS Planning, Environment & Public Comment Application (PEPC)

**National Park Service**

(PEPC) Planning, Environment & Public Comment

[Find a Park](#)[Discover History](#)[Explore Nature](#)[Get Involved](#)[Working With Communities](#)[Teachers](#)[Kids](#)[About Us](#)

[PEPC Home](#)[Documents by Park](#)[Policy/Guidance](#)[Park Planning](#)[Search Documents](#)

Welcome to PEPC

Welcome to the National Park Service's **Planning, Environment and Public Comment (PEPC)** site!

The National Park Service prepares a variety of planning and environmental documents to help guide management of parks. This site provides for public involvement in the NPS planning process.

- [Documents by Park](#) - Go directly to a specific park's list of active projects
- [Policy/Guidance](#) - NPS policy, pertinent Director's orders, terminology, and more
- [Park Planning](#) - Find NPS Planning Program information, Plans and Tools
- [Search Documents](#) - Search by keyword, park, state, document status, document type, project type or NEPA type

Projects with Documents Open for Comment

To search all projects and documents, use our [Search](#) page.

Search This List:

Park	Project Title	Review Ending
Badlands National Park	Accessibility Self-Evaluation and Transition Plan Badlands National Park	May 15, 2024
Sleeping Bear Dunes National Lakeshore	Improving Boat Access at the Manitou Islands	May 18, 2024
Denali National Park and Preserve	New Construction of Concessioner Employee Housing	May 19, 2024
Kalaupapa National Historical Park	Construct New Fuel Storage and Dispensing System	May 19, 2024
Rocky Mountain National Park	Proposed Campground Fee Increases for Rocky Mountain National Park - 2024	May 23, 2024
Cuyahoga Valley National Park	Programmatic Categorical Exclusion (PCE) for Riverbank Stabilization Measures Along the Cuyahoga River to Protect Historic Resources 2023-2028	May 26, 2024
Harry S Truman National Historic Site	Parkwide Accessibility Self-Evaluation and Transition Plan (SETP)	May 27, 2024
Ice Age National Scenic Trail	Blue Hills-Dreamer Rusk Co	May 30, 2024
Dinosaur National Monument	Proposed Camping Fee Rate Increase	Jun 01, 2024

Welcome to PEPC

The National Park Service's Planning, Environment and Public Comment (PEPC) site. NPS prepares a variety of planning and environmental documents to help guide management of parks. This site provides for public involvement in the NPS Planning Process.

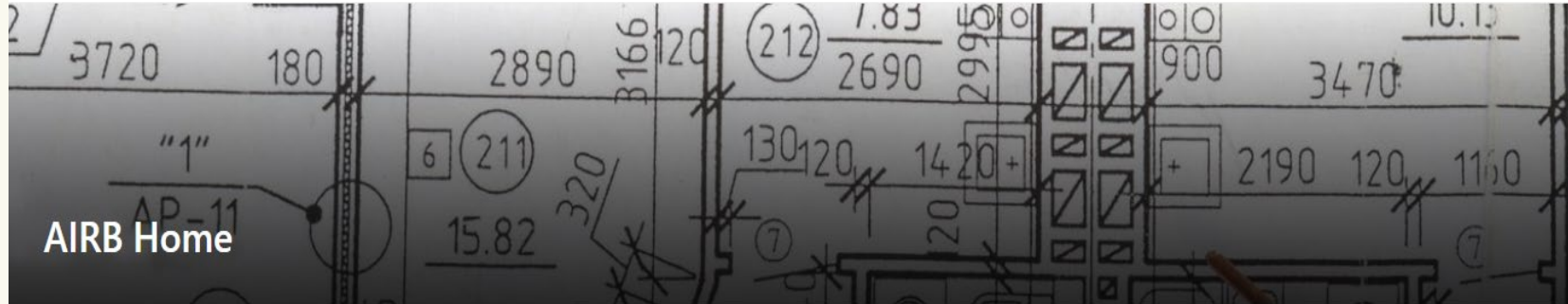
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• [Search Documents](#) - Search by keyword, park, state, document status, document type, project type or NEPA type

NPS Bureau Investment Review Board (BIRB)



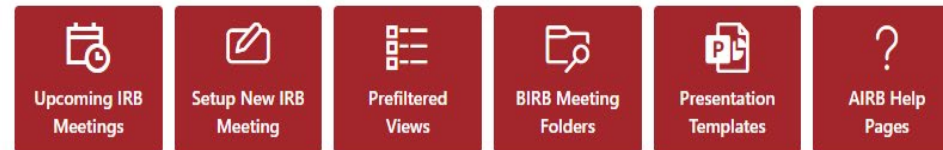
Welcome to the Automated Investment Review Board Site. This site allows NPS Users to electronically prepare a submission to the NPS Bureau Investment Review Board (BIRB). For help creating a new submission, please find [instructions here](#).

- To start a **new submission**, use the AIRB Submission Portal link.

If you have any questions about using the AIRB Submission Portal or need to **request access** to the PowerApp please direct your inquiry via email to airb_info@nps.gov.



AIRB Quick Links



•What is the BIRB

•Board is composed of:

- Reps from NPS Directorates
- Park Superintendents
- Regional NPS Facilities Reps

•Required for all NPS Capital Projects Over \$2.0 million


•Projects reviewed by SME's:

- Cultural Resources
- Policy & Codes
- Housing
- Sustainability
- Natural Resources
- Budget
- Accessibility

•Capital Projects are reviewed:

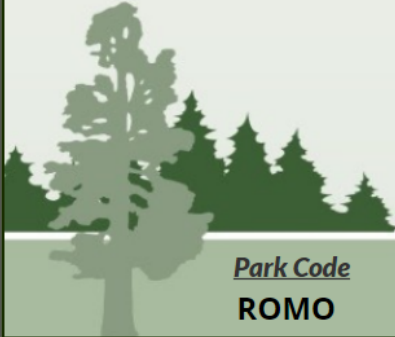
- Conceptual Level
- Schematic Design Level

NPS Bureau Investment Review Board (BIRB)

 AIRB Home

SUBMITTAL HOME

Need Help ?



Review Purpose

Investment Concept

Meeting Title

March 2024 Bureau IRB (BIRB) - 3/19/2024 - (Deadline: 2/13/2024)

Review Status

Closed

Meeting Category

Bureau IRB (BIRB)

Primary Funding Source

Meeting Date

3/19/2024

Author: Peabody, Amy E

AIRB ID: 5643

Park Code

ROMO

PMIS #

335663

Component

Rehabilitate Park Housing and Water Systems (335663)

Title

Partnership

Region

Intermountain

Submittal Created

1/19/2024 2:47 PM

Regional Coordinator

Hogan, Michael S

Park Coordinator

Waters, Caleb CRW

Project Manager

Peabody, Amy E

Lead Office

Park

ACTIONS:

Edit Submittal Info

DELETE SUBMITTAL?

Return to Search Grid

Submittal Detail Report ⓘ

SME Comments

Related Submittal Report ⓘ

Upload and View Supporting Docs

ⓘ From 6am to 10pm (ET) updates to submittal data may take up to 2 hours to show on reports.

EDIT SUBFORMS:

Description

Estimates

Financials and Funding

Schedule

Scope

Emphasis

Sustainability

Unresolved Issues

Compliance

Value Methodology

O&M Strategy

Approval Status

NPS Automated Bureau Investment Review Board (BIRB)

Investment Concept - Define the Problem

Housing is the number one issue facing Rocky Mountain National Park.

- Quantity and quality of housing are both part of the problem.
- Of our current housing portfolio of 134 units, 12 units are in poor condition and 49 are in fair condition.
- The park is diverting significant resources in all available fund sources to improve the condition of existing housing units.
- Through this process, even after diverting significant cyclic, repair/rehab, and donations funding, it will take decades to bring the entire ROMO housing portfolio into good condition.
- ROMO has plans to address all housing in poor condition through multiple approaches

A substantial one-time investment to increase condition rating, reduce deferred maintenance, and upgrade existing park housing to meet life/safety codes is needed to make a meaningful and timely difference.



NPS Mission 66 Initiative (M-66)

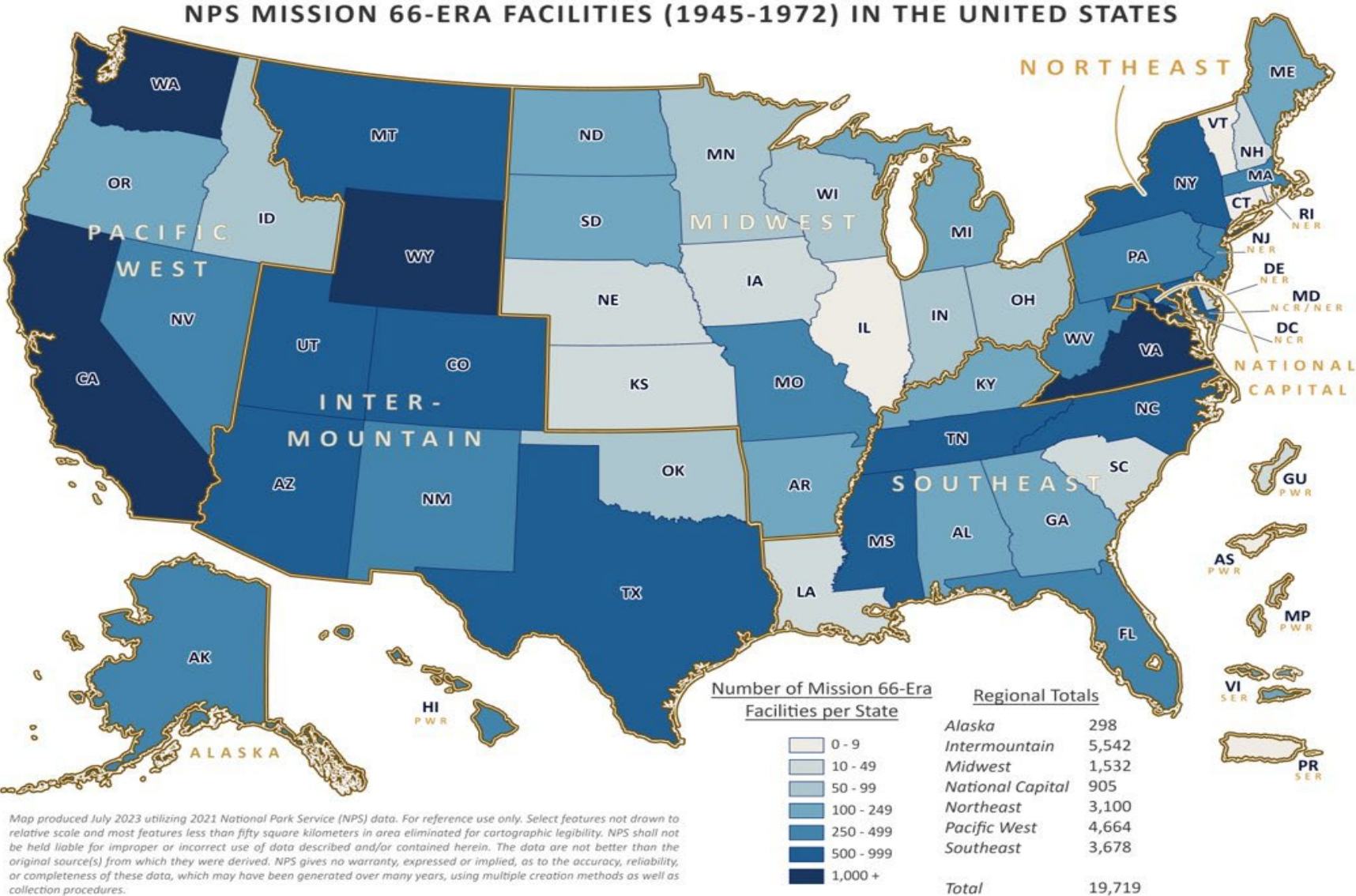
What are Mission 66-Era Facilities?

“Mission 66” was a nationwide NPS campaign that was supposed to be completed in 1966 but spanned from 1945-1972. It included establishment of new parks as well construction of visitor centers, comfort stations, campgrounds, picnic shelters, park staff buildings, roads, parking lots, and other infrastructure.

There are about **20,000 Mission-66** structures and they comprise **25% of all NPS facilities**.



Mission 66 Program Comment



Historic Structures Community

Historic Structures Program Council-Purpose

The Historic Structures Program Council is an advisory body to assist in the development & implementation of a National Historic Structures Stewardship Program. The **HS Program Council** will advise, educate, promote, & advocate for an effective Historic Structures Stewardship Program across NPS Parks.

- We will also work closely with our fellow Cultural Landscape Program Council.



Marla McEnaney, Manager
Historic Architecture &
Landscapes (MWR Region)



Julie McGilvray, Program
Manager, Preservation
Services (NCR Region)



Grant Crosby Regional
Historical Architect
(Alaska Region)



Stephen Pisani,
Branch Chief (NE
Region-HACE)

Historic Structures Community

The Community of Practice (CoP) for Historical Architects & Historic Structures SME's



APT (Association for Preservation Technology) Conference –NPS Affinity Team Meeting –Seattle (October 9th-14th, 2023)

- Focus on strengthening the network of Colleagues across disciplines.
- Partner and collaborate for training opportunities both in-person and online.
- Promote close working relationship between Historic Structures Program and COP to promote mutual interests.
 - Historical Architects
 - Architects & Project Managers
 - Architectural Historians & CR Specialists
 - Conservators & Curators
 - TPS & Heritage Documentation Colleagues



Historic Structures Community

The Community of Practice (CoP) for Historical Architects & Historic Structures SME's



- Plan for an In-Person “Historic Structures Program Meeting” Every-Other Year
 - Possible Meeting 2025 or 2026---Seek input from HS Council & CoP.
- Plan for regular meetings & training opportunities on Historic Structures with other NPS colleagues & External colleagues (Virtual and/or In-Person)
 - ***Museum Fire Protection & Historic Structures (April 2023)***
 - Museum Management Program & NPS Structural Fire Program
 - ***New Guidance on the Use of Substitute Materials Preservation Brief #16 (May 22nd 2:00 – 3:30pm ET)***
 - Technical Preservations Services Program



Mission 66 Single Family Housing Rehabilitation & Conversion



Chris Finlay
NPS Major Construction Division
(Slides courtesy of NPS IMR)

Mission 66 Housing History and Status

Mission 66: 1956 thru 1966

- 1800 total M66 housing units, 50% SFH, most in PWR & IMR
- NPS invested heavily in single family housing (SFH)



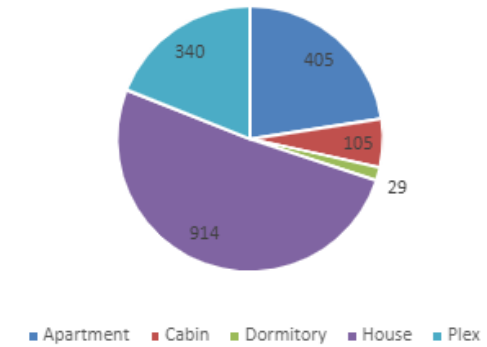
Today: High inventory of single-family M66 homes

- Most units in good to fair condition
- Units outdated & don't meet current workforce's needs
- Few, small bathrooms, unmodernized kitchens
- Not universally accessible, energy inefficient
- Some converted to other uses
- Most M66 require Determination of Eligibility (DOE)

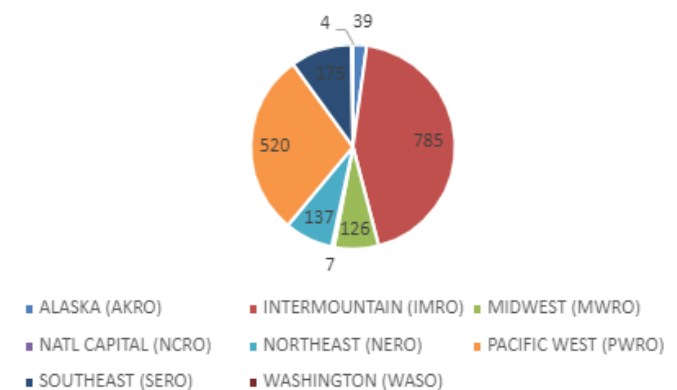
Parks currently need diverse mix of housing types and sizes

- Workforce demographics have changed
- Smaller families don't always need 3-bed/2-bath SFH
- Not affordable for lower-graded staff
- Entry level / early in careers / less space & more affordable

M66 Housing Units by Type



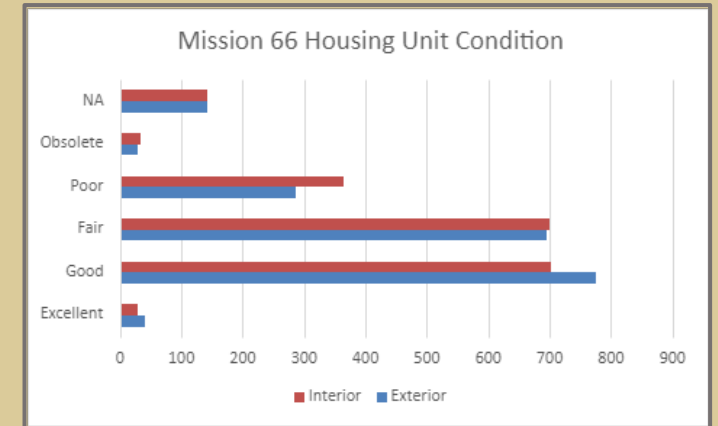
Total M66 Units by Region



Mission 66 Rehabilitation / Reconfiguration

Rehabilitation with minor modifications:

- Retain historic character
- Address deferred maintenance
- Update interior and exterior (finishes, fixtures, cabinets, lighting)
- Modify floor plans to open concept (kitchen/dining/living room)
- Add additional bathroom
- Remove carpet and refinish hardwood floors
- Meet ABAAS standards and ratios
- Upgrade utilities (fire suppression, electrical service, internet)
- Improve energy efficiency (envelope, appliances, HVAC)



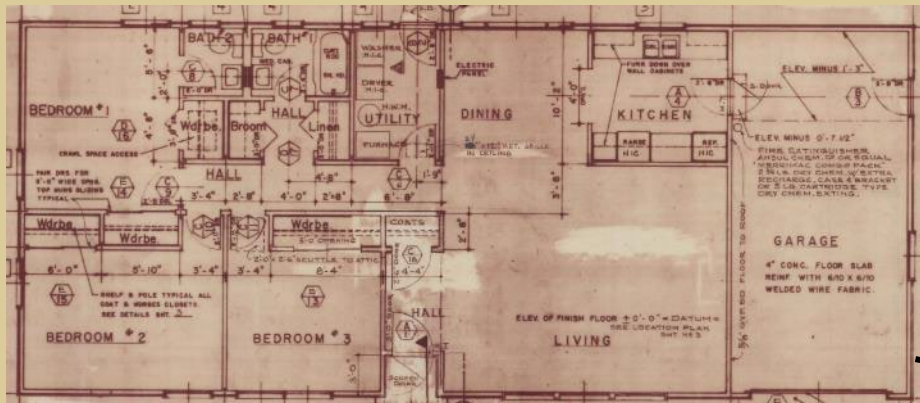
Reconfiguration from single house to multiple units:

- Retain historic character
- Address deferred maintenance
- Create duplexes - convert SFH to two apartments
- House more employees / smaller families / lower rent

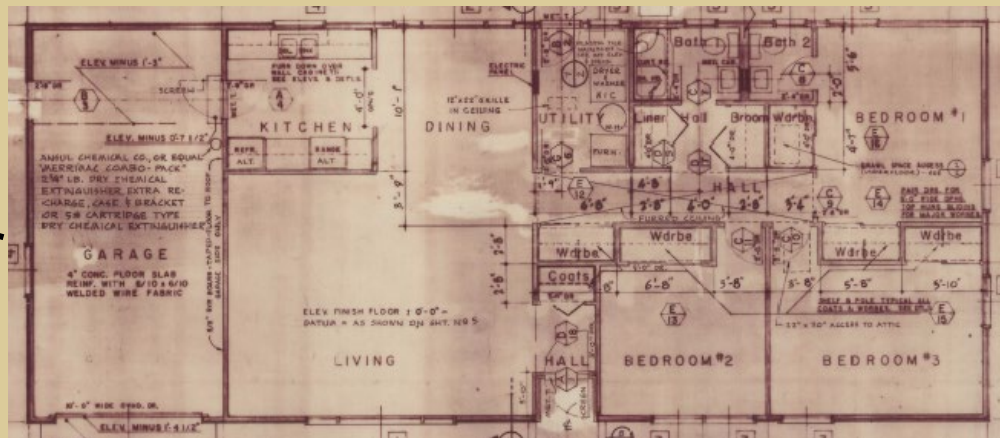


Opportunities

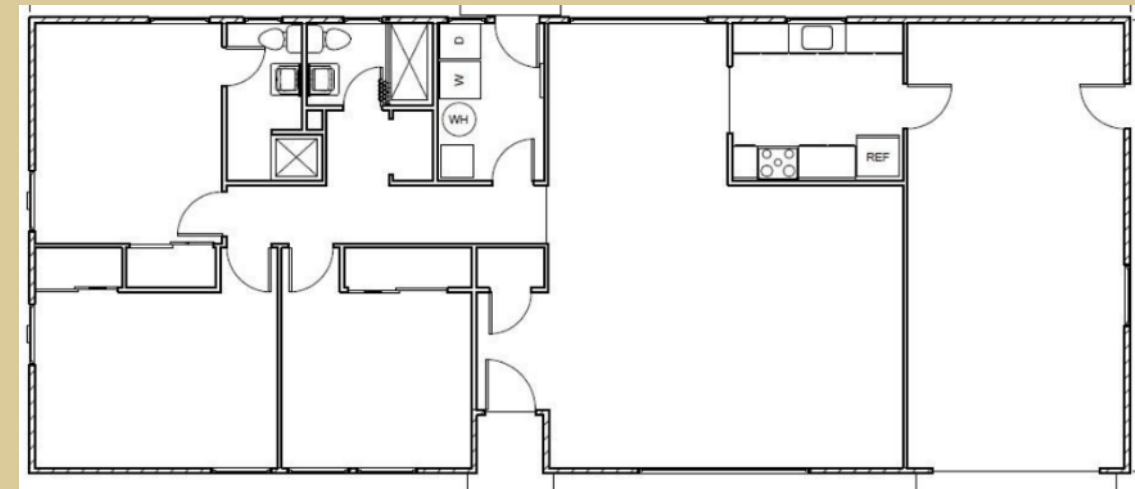
- Renovate existing structures to improve condition
- Reconfigure some single-family homes to duplexes / triplexes better meet actual housing demands
- Standardize design and compliance processes for similar structures



CARE 1963



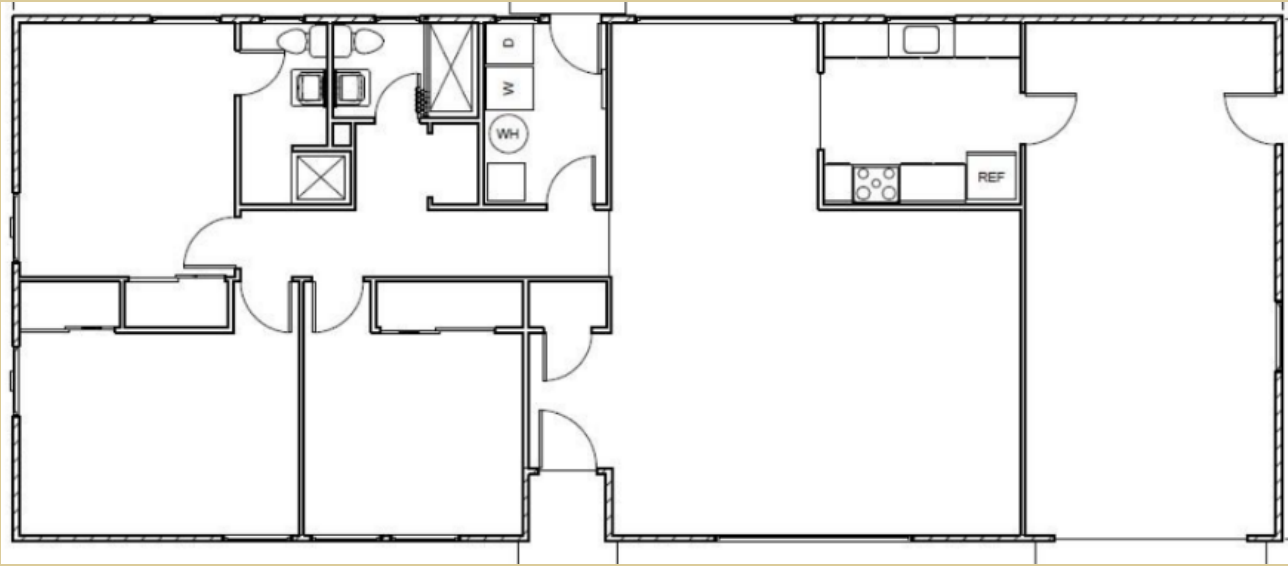
DINO 1962



Common 3 Bed 1.5 Bath Single Garage Layout

Can we make this into a duplex?

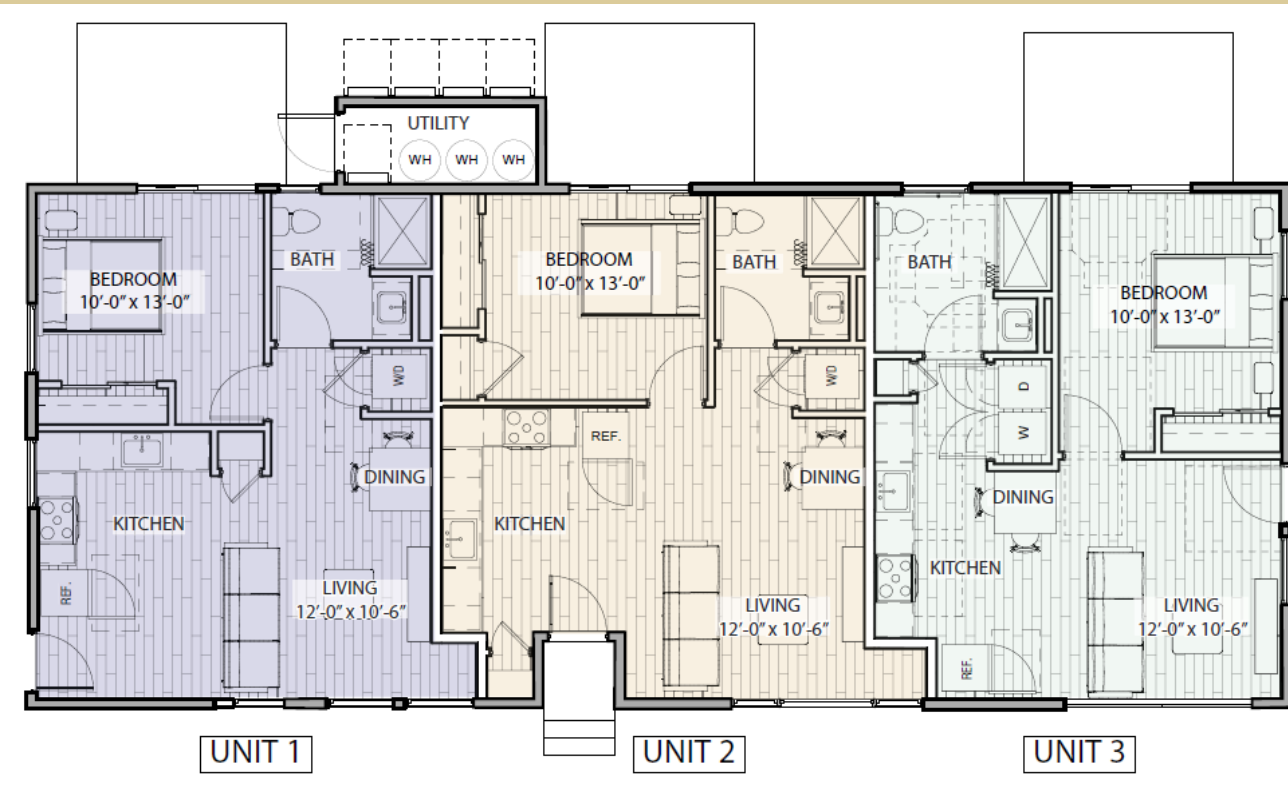
Convert SFH to Triplex



Common M66 SFH

- 3 Bed 1.5 Bath
- Single Garage

~1436 SF (interior)
+ 376 SF (garage)
= 1812 SF (footprint)



Triplex Conversion

Unit 1:

- 1 Bed / 1 Bath
- 561 SF

Unit 2:

- 1 Bed / 1 Bath
- 567 SF

Unit 3:

- 1 Bed / 1 Bath
- Fully accessible
- 568 SF

Implementation

- Funding of initial projects (primarily rehabilitations)
- Learning through execution
 - conduct a few pilot reconfigurations in first years
 - Follow with more reconfigurations if successful
- Expand to other Mission 66 housing designs beyond single family detached?





Thank you



Thank you

