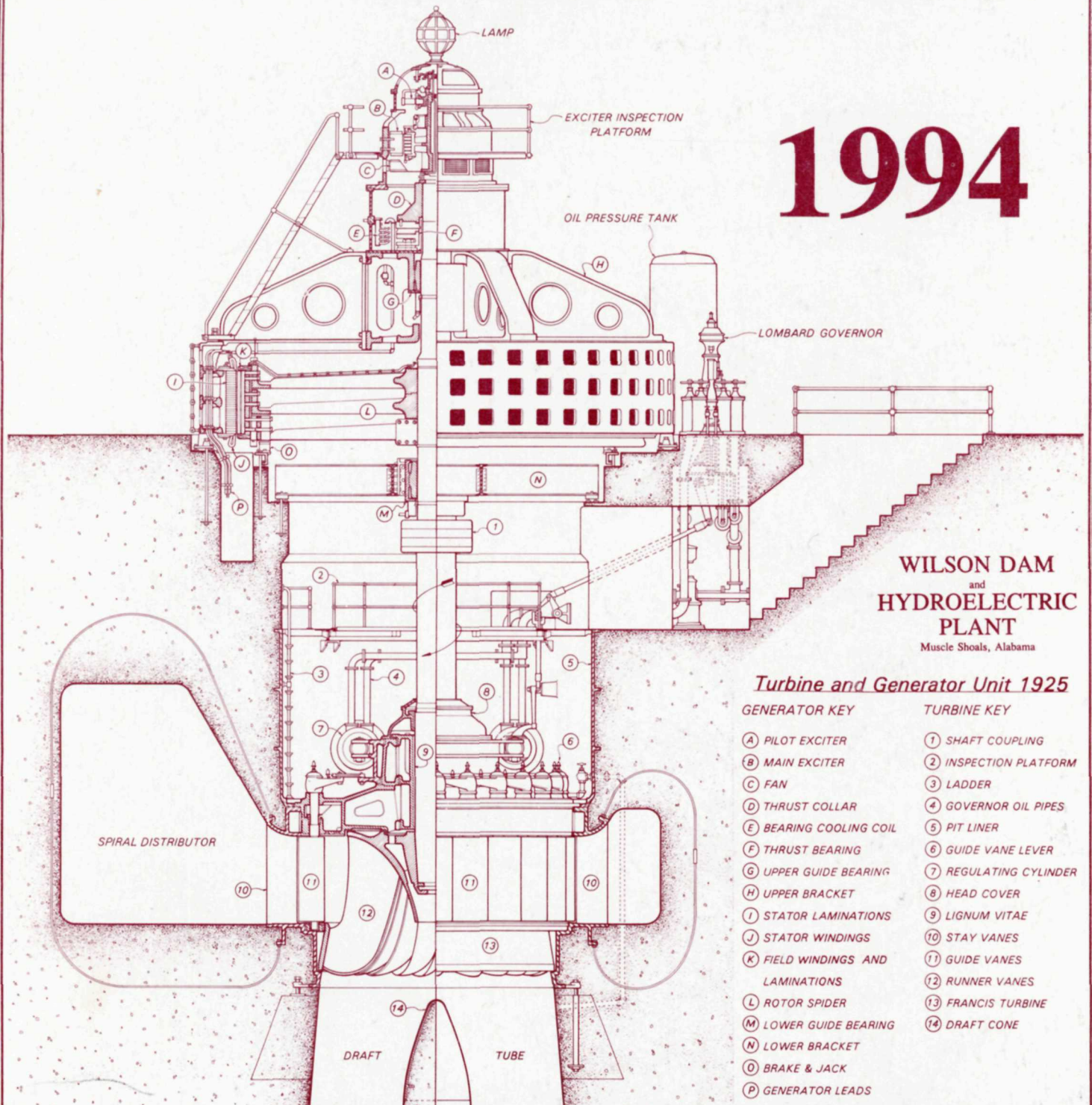


HABS/HAER REVIEW

1994



**WILSON DAM
and
HYDROELECTRIC
PLANT**
Muscle Shoals, Alabama

Turbine and Generator Unit 1925

GENERATOR KEY

- (A) PILOT EXCITER
- (B) MAIN EXCITER
- (C) FAN
- (D) THRUST COLLAR
- (E) BEARING COOLING COIL
- (F) THRUST BEARING
- (G) UPPER GUIDE BEARING
- (H) UPPER BRACKET
- (I) STATOR LAMINATIONS
- (J) STATOR WINDINGS
- (K) FIELD WINDINGS AND LAMINATIONS
- (L) ROTOR SPIDER
- (M) LOWER GUIDE BEARING
- (O) BRAKE & JACK
- (P) GENERATOR LEADS

TURBINE KEY

- (1) SHAFT COUPLING
- (2) INSPECTION PLATFORM
- (3) LADDER
- (4) GOVERNOR OIL PIPES
- (5) PIT LINER
- (6) GUIDE VANE LEVER
- (7) REGULATING CYLINDER
- (8) HEAD COVER
- (9) LIGNUM VITAE
- (10) STAY VANES
- (11) GUIDE VANES
- (12) RUNNER VANES
- (13) FRANCIS TURBINE
- (14) DRAFT CONE

This is a joint publication of The American Institute of Architects, the American Society of Civil Engineers, and the Historic American Buildings Survey Foundation intended to review the activities of the Historic American Buildings Survey (HABS) and the Historic American Engineering Record (HAER) for the year 1994.

Editor: Brian L. Cary

Front Cover: *Section/Elevation, Wilson Dam & Hydroelectric Plant, Turbine & Generator Unit, Muscle Shoals, Colbert County, Alabama (HAER No. AL-47-A, portion of Sheet 1 of 1). Delineator: Chris J. Payne - Tennessee Valley Authority Project, 1994.*

Front Cover design by: Craig N. Strong

Back Cover: *Partial East Elevation, Jefferson Memorial, Washington, District of Columbia (HABS No. DC-4, portion of Sheet 13 of 25). Delineators: Robert R. Arzola, Amy L. Darling, Ellyn P. Goldkind, Lynne E. Holler, Dana Lockett, and Mark Schara - 1994.*

Back Cover design by: Dana Lockett and Mark Schara

1994 HABS/HAER REVIEW

A REVIEW OF THE ACTIVITIES OF THE
HISTORIC AMERICAN BUILDINGS SURVEY (HABS)
AND HISTORIC AMERICAN ENGINEERING RECORD (HAER)

Published in part by

The American Institute of Architects

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Washington, D.C.

1995



National Park Service Director Roger Kennedy (second from right) reviews measured drawings of the White House (HABS DC-37) with (left to right) Frederick Lindstrom, Robert Kapsch, and Paul Dolinsky during his visit to the HABS/HAER office. Photographer: Jack E. Boucher - 1994.

REORGANIZATION, REENGINEERING, STREAMLINING AND DOWNSIZING

The news from the Government is about decreasing its size. Early in Fiscal Year 1994, Vice President Gore issued the National Performance Review, a large compendium of ideas and thoughts on how the Clinton Administration could make the Federal Government more efficient, effective and productive. The Office of Management and Budget (OMB) focused on one recommendation, President Clinton's campaign promise to reduce Federal employment by 252,000 employees (approximately 6%) by 1999, and issued appropriate instructions to the various Departments and organizations comprising the Executive Branch. This was later increased to 272,000 by Congress.

When these instructions were received by the National Park Service (NPS), a committee was established to develop recommendations on how the NPS should respond to OMB's directive. The recommendations of the committee was not to cut the staffing of the parks but, rather, cut the ten Regional offices, the Washington office, Harper's Ferry Service Center and the Denver Service Center. Instead of a six percent cut, these offices would take a 25% cut in Full Time Equivalent (FTE) positions -- the measure of Federal staffing. Further, the committee recommended that "the National Park Service take their medicine now" -- i.e. take the personnel cuts over the next two years rather than over the next five years as envisioned by the National Performance Review. This initiative, known as "streamlining" or "downsizing" would not harm the staffing of the parks themselves. The recommendations of the Committee were accepted by NPS Director Roger Kennedy and eventually by Assistant Secretary George Frampton and by Secretary Bruce Babbitt. In so doing, they held the Park Service harmless from the ordered reductions.

Other groups were meeting throughout NPS on reorganization and reengineering, the latter term from the popular management book, *Reengineering the Corporation: A Manifesto for Business Revolution*, by Michael Hammer and James Champy. Numerous meetings were held throughout the country and results shared widely throughout the service through the new electronic mail system. As one might expect, many of these groups had overlapping responsibilities and coordination was difficult.

The widespread ramifications of this process are still evolving. For HABS/HAER, the initial results were recommendations to severely cut back the program by as much as 70%. The first such recommendation came from one of the numerous committees that met in Denver, organized during the Spring of 1994. The recommendation, had it been accepted, would have had the practical effect of eliminating the program. Subsequent meetings were held in Washington, D.C., and via teleconference. By the summer of 1994 it appeared that HABS/HAER was to be cut by 50%.

Besides streamlining, HABS/HAER may also be affected by the NPS reorganization, also called restructuring. NPS developed a recommendation that the ten existing Regional offices be reorganized into seven Field offices and a series of sixteen Systems Support offices. HABS/HAER was recommended to remain in Washington, D.C., and be reorganized into a National Program Center. Much uncertainty remains concerning reorganization/restructuring at the time of this writing, such as the disposition of this reorganization/restructuring plan by the Republican dominated 104th Congress versus what elements of the plan can be placed into operation without Congressional approval. Because, to some extent, the proposed reorganization represents a reprogramming of Congressionally appropriated funds, NPS is required to submit such plans to Congress for their approval. On the other hand, much of the reorganization can and has been done without necessary Congressional approval, such as the relocation of positions vacated by "buyouts" -- individuals who voluntarily retire in return for a \$25,000 bonus and whose positions are then relocated to another organization. A placement program called Operation Opportunity has assisted in voluntary relocation of individuals from headquarters units to park positions.

Reengineering will also, undoubtedly, affect HABS/HAER operations. HABS/HAER will be investigating new means to do its job through the use of emerging computer-aided drafting (CAD)/photogrammetry technology. In their book on reengineering, Hammer and Champy emphasize that successful examples of reengineering almost always draw heavily on new technologies. There is no question that CAD/photogrammetry is a powerful new tool in recording historic sites and structures. What needs to be determined is how this new technology can best be used and integrated into the HABS/HAER documentation programs.

Fiscal Year 1994 ended five weeks before the elections of 1994. The new Republican led 104th Congress will undoubtedly play a major role in the future of NPS and HABS/HAER.

The reason for HABS/HAER's success and endurance over the years is that it has stayed focused on its original mission to go out and record historic American structures of all kinds.

**Jerry L. Wallace, Liaison, Affiliated Archives
Office of Special and Regional Archives
National Archives and Records Administration**
on the occasion of the establishment of
Record Group 515 at the National Archives, College Park, Maryland

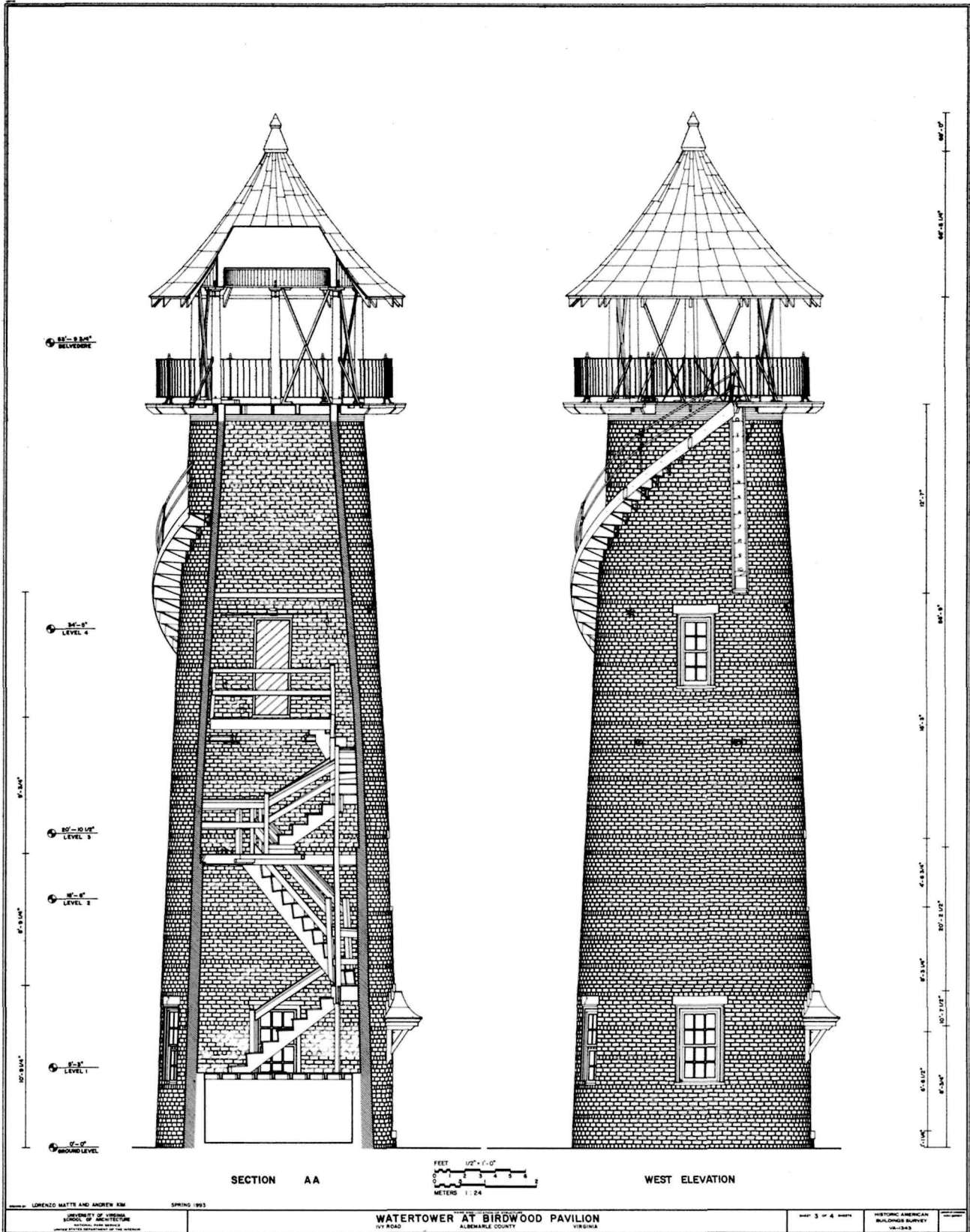
[W]hat is most useful ... is the quality of its images. Made by professional architects, draftsmen, and photographers expressly as aids to architectural research, these images are an invaluable resource. The value of [HABS/HAER] as a rescue mission, then, is incalculable; it preserved in paper form, hundreds of buildings destined to vanish without a trace.

Look at the pictures. Pore over the drawings. Check their details. Do it carefully, and you can develop almost a tangible sense of the buildings...

John Michael Vlach
Preface to *Back of the Big House: The Architecture of Plantation Slavery*

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HABS/HAER STAFF ROSTER	<i>Inside back cover</i>



Section AA and West Elevation, Watertower at Birdwood Pavilion, Charlottesville vicinity, Albemarle County, Virginia (HABS No. VA-1343, Sheet 3 of 4). Delineators: Lorenzo Mattii and Andrew Byung Kyu Kim - 1993. A sampling of the winning set of measured drawings in the 1994 Charles E. Peterson Prize competition submitted by a team of students from the University of Virginia.

HONORS AND AWARDS

HABS/HAER HONORED

Vail Partnership Award

On August 25, 1994, at the 78th anniversary celebration of the National Park Service (NPS) held at the Bolling Air Force Base Officers Club, John J. Reynolds, Deputy Director, NPS, presented Robert J. Kapsch, Chief, HABS/HAER, and representatives of The American Institute of Architects (AIA) and the American Society of Civil Engineers (ASCE) with the first annual Vail Partnership Award. Cosponsored by the National Park Foundation and the National Parks and Conservation Association, this award is presented to those NPS managers who demonstrate outstanding partnership achievement in furthering the mission of the Park Service. Named for Vail, Colorado, the site of the 75th anniversary NPS conference dedicated to the future of the Service, it includes a cash award of \$2500. HABS/HAER was selected in recognition of its outstanding partnerships with the AIA (over sixty years) and with ASCE (over twenty-five years). Receiving the award for the AIA were Hugh C. Miller, FAIA, Chairman, AIA Historic Resources Committee; Richard W. Hobbs, FAIA; and Robert Feild. Receiving the award for ASCE was Albert A. Grant, F.ASCE, former President, accompanied by Helene Grant.



Presentation of the Vail Partnership Award to representatives of HABS/HAER, ASCE, and AIA. From left to right: John J. Reynolds, Deputy Director, NPS; Albert A. Grant, F.ASCE, former President, ASCE; Robert J. Kapsch, Hon. AIA and Hon. ASCE, Chief, HABS/HAER; James L. Kochan, Friends Coordinator, National Park Foundation; and Hugh C. Miller, FAIA, Chairman, AIA Historic Resources Committee. Photographer: Unknown - 1994.

HABS/HAER Chief Recognized

Honorary Membership in AIA -- L. William Chapin, II, FAIA, President, The American Institute of Architects (AIA), presented Robert J. Kapsch with Honorary Membership in the AIA. The presentation was made at the AIA's annual meeting in Los Angeles on May 12, 1994. He was one of ten individuals, and the only government employee, to be so honored. Honorary Membership is awarded to individuals who have made significant contributions to the profession of architecture. Dr. Kapsch was honored for his dedication, support and promotion of the Historic American Buildings Survey over the years.

Thirty-Year Service Pin -- On August 2, 1994, Jerry L. Rogers, Associate Director, Cultural Resources, National Park Service, presented Robert J. Kapsch with a thirty-year service pin. He began his Federal career in 1964, as a 2nd Lieutenant in the United States Air Force, San Antonio, Texas.



AIA President L. William Chapin, II, FAIA, presents Robert J. Kapsch with Honorary Membership at the AIA annual meeting. Photographer: Oscar & Associates - 1994.

Outstanding Performance By Collections Management Historian

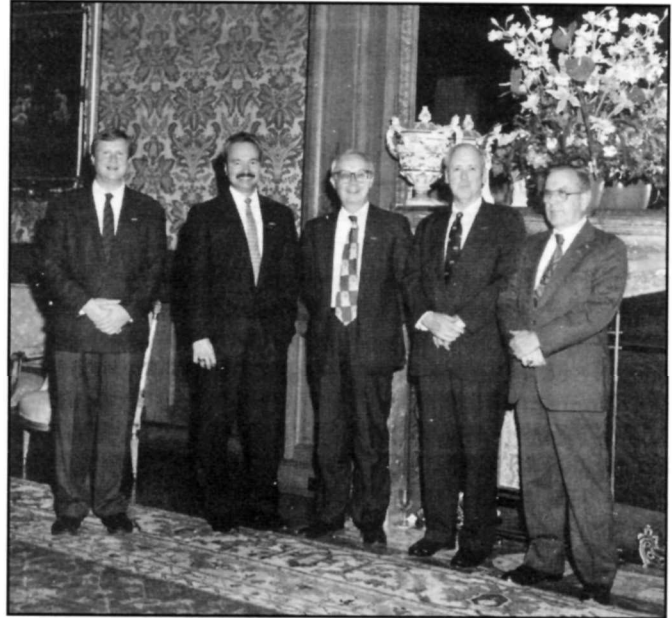


Monica P. Murphy, Collections Management Historian, received an Outstanding Performance Award in recognition of her performance and dedication in assuming additional administrative duties beyond her own responsibilities during the extended absence of a key staff member in the Collections Management (CM) program. Ms. Murphy's notable organizational and administrative skills enabled the CM program to maintain critical day-to-day operations to meet Fiscal Year 1994 goals and objectives related to accessioning and transmitting HABS/HAER project documentation. In addition, Ms. Murphy initiated the development of a Records Disposition Schedule for Record Group 515 at the National Archives at College Park.

HABS/HAER HONORS CONFERRED AND AWARDS PRESENTED

1994 Fellows of the Historic American Buildings Survey

Coinciding with the sixty-first anniversary of the Historic American Buildings Survey, the HABS Foundation announced the 1994 *Fellows of Historic American Buildings Survey*. This honor is conferred upon individuals who have made contributions to HABS for fifteen or more years. Recipients were named on November 15, 1994, during a ceremony at the Perry Belmont Mansion in Washington, D.C. Honored were: Leicester B. Holland (posthumously), James C. Massey and Osmund R. Overby. New Fellows were presented with a certificate citing outstanding service, creative energy, and commitment to high standards for the documentation of American architecture and a HABS Fellow lapel pin -- C. Ford Peatross received Mr. Holland's award on behalf of the Holland Family.



▷ *HABS Fellows attending the 1994 ceremony at the Perry Belmont Mansion in Washington, D.C., (left) C. Ford Peatross (1993), Paul D. Dolinsky (1993), John A. Burns (1993), James C. Massey (1994), and Jack E. Boucher (1993). Photographer: Jack E. Boucher - 1994.*

Leicester B. Holland did much to shape the beginnings and the public use of the HABS collection. During a fifteen year tenure as Chief of the Division of Fine Arts and holder of the Carnegie Chair at the Library of Congress, Mr. Holland firmly established, cultivated, and expanded the Library's now unrivalled holdings in American architectural photographs, original and documentary drawings, books, and ephemera. He played a conspicuous role in the formation of HABS, representing both the Library and the AIA's Historic Resources Committee.

Born in Louisville, Kentucky, Mr. Holland was the son of a dean of Philadelphia's Jefferson Medical College and had intended to follow in his father's profession until his interest in architecture led him to the University of Pennsylvania, where he received a B.S., M.A., and Ph.D. in architecture between 1904 and 1925. He served as an apprentice in the offices of Wilson Eyre in Philadelphia and of Cram, Goodhue, and Ferguson in Boston, and was partner in the firm of Howell and Holland from 1907-12, when his interest in archaeology carried him away from the design aspects of architecture. He taught architectural design and the history of architecture at the University of Pennsylvania from 1913-18, was associate professor at the American School of Classical Studies in Athens, 1919-22; and Professor of Fine Arts at Vassar, 1925-27. From 1929 until 1946 he was a member of the faculty of the University of Pennsylvania, from 1945 to 1946 he was lecturer in classical archaeology at Bryn Mawr College, and from 1946 to 1947 he served as an architect with the Corinth excavations of the American School in Athens.

James C. Massey launched his illustrious career in architecture, history and preservation serving as a historic architect for the National Park Service in 1958 under Charles Peterson. He advanced to supervisory architect and then to Chief of HABS, the first person to hold this title. During his six years as chief, he was integral in the formation of HAER. In 1972 he left HABS to work with the National Trust for Historic Preservation to become director, and then vice president for historic properties. He was also organizer and executive director of the Historic House Association of America. In 1992 he co-compiled the 170 page *HABS/HAER: An Annotated Bibliography*.

Mr. Massey graduated from the University of Pennsylvania in 1955 with a degree in architecture. He later earned a Master of Planning from the University of Virginia. Among his numerous awards and recognitions is the Meritorious Service Award of the U.S. Department of the Interior.

Osmund R. Overby first worked for HABS as a student summer hire in 1959 on the Upper Connecticut River Valley project, after which he spent the next year and following summer in the Philadelphia HABS office. In summer 1963 he pioneered documentation of late nineteenth and early twentieth century buildings in Chicago, which resulted in the publication of HABS measured drawings *The Robie House*, published by The Prairie School Press in 1965. He spent subsequent summers researching the architecture of the U.S. Virgin Islands, a project that resulted in the first "HABS Selections Series"

publication, *Historic Architecture of the Virgin Islands*, released in February 1966. As compiler for the preliminary edition of the HABS Rhode Island catalog in 1967, Dr. Overby was again working to disseminate knowledge about the HABS collection. Following these publications, he spent the summer of 1968 directing the recording of Old South Meeting House and Boston Athenaeum, summers 1969 and 1970 in Newport, Rhode Island, and summer 1973 directing numerous HABS projects. More recently, HABS worked closely with him on the massive *Buildings of the United States* publication series undertaken by the Society of Architectural Historians and Oxford University Press.

SHOT/HAER Fellowship

In 1993, The Society for the History of Technology (SHOT) and HAER established the SHOT/HAER Fellowship to encourage the creation of new HAER research materials, and/or the use of HAER documentation in more extensive research projects that go beyond the allowances of a typical summer recording project. In 1994 a joint SHOT/HAER committee selected Sara Wermeil as the second recipient of the fellowship. Ms. Wermeil is a Ph.D. candidate in the Department of Urban Studies and Planning at the Massachusetts Institute of Technology. Her dissertation topic, "Nothing Succeeds Like Failure: The Development of the Fireproof Building in the United States, 1800-1920," explores how the materials for and methods of building construction changed over the course of the nineteenth century in response to demands for greater fire safety. One of her principal themes is that people learned more from what did not work than from what did. Her work is particularly interesting to HABS/HAER since it investigates both architecture and engineering. Ms. Wermeil will present a paper in 1995 to HABS/HAER staff and local SHOT members concerning her research.



Sara Wermeil, recipient of the 1994 SHOT/HAER Fellowship.

SAH/HABS Sally Kress Tompkins Fellowship

Rebecca Jacobsen, a student of St. Cloud State University, was the 1994 winner of the Sally Kress Tompkins Fellowship, cosponsored by the Society of Architectural Historians (SAH) and HABS. The fellowship, established in memory of the former deputy chief of HABS/HAER, permits an architectural historian to work on a HABS summer recording team. The SAH/HABS jury was composed of C. Ford Peatross, Architecture, Design and Engineering Curator, Prints and Photographs Division, Library of Congress; Judith Lanius, SAH; and Kim Hoagland, Senior HABS Historian. Ms. Jacobsen was selected based on her paper submittal, *Lafayette Park and the Divided City*, which critically examined a Mies van der Rohe-designed urban renewal project in 1950s Detroit, Michigan. She was presented with the fellowship award by Ms. Hoagland at the business meeting of the SAH annual meeting in Seattle, Washington, April 1994. Ms. Jacobsen worked on the HABS summer team in Flagstaff, Arizona, documenting the structures at the Lowell Observatory: Pluto Dome, Clark Dome and Slipper (Administration) Building (see p. 35 *Lowell Observatory*).

Funds for the fellowship are administered by Pauline A. Saliga, Executive Director, SAH. Tax-deductible contributions to the fund are welcome and may be made by sending a check payable to the Sally Kress Tompkins Fund, c/o Executive Director, SAH, 1365 N. Astor Street, Chicago, Illinois, 60610-2144. Those wishing to apply for the Sally Kress Tompkins Fellowship, or desiring additional information on the program, may write to Catherine C. Lavoie, HABS/HAER (429), National Park Service, P.O. Box 37127, Washington, D.C., 20013-7127.



Winners of the 1994 Charles E. Peterson Prize attending the awards presentation in Washington, D.C., at the national headquarters of The American Institute of Architects (left to right): Texas A&M University - Scott Tibiletti, Christopher May, David G. Woodcock, FAIA, RIBA; Tulane University - David M. Connick, Eugene D. Cizek, Ph.D., AIA, Susan A. Casente; University of Virginia - Lorenzo Mattii, K. Edward Lay; University of Maryland - Judith Capen, AIA; Louisiana State University - William R. Brockway, FAIA, Paulette Lizano, Dawn Capuano, Stevan Caronia, Rachel Simoneaux, Richmond Savoy; Louisiana Tech University - F. Lestar Martin; Juror - Herbert W. Levy, FAIA. Photographer: John A. Burns - 1994.

Charles E. Peterson Prize

The Historic American Buildings Survey and The Athenaeum of Philadelphia announced the winners of the 1994 Charles E. Peterson Prize in Washington, D.C., November 4, 1994. The announcement was made at the national headquarters of The American Institute of Architects (AIA), during the Fall meeting of the AIA’s Historic Resources Committee. The Peterson Prize is an annual award for the best set of architectural measured drawings of a historic building produced by college students and donated to HABS. The Prize honors Charles E. Peterson, FAIA, founder of the HABS program and is intended to increase awareness and knowledge of historic buildings throughout the United States. The drawings are deposited in the HABS collection at the Library of Congress.

First Place and \$2,000 was awarded to a team of two students from the School of Architecture, University of Virginia: Andrew Byung Kyu Kim and Lorenzo Mattii. Their sponsor was K. Edward Lay, Cary D. Langhorne Professor of Architecture. The students produced drawings of the Watertower at Birdwood Pavilion, Charlottesville vicinity, Albemarle County, Virginia (HABS No. VA-1343). Constructed circa 1910, by Hollis Rinehart, the watertower served Birdwood Mansion, a Roman Revival residence (built 1810-30), and its service buildings.

Second Place and \$1,500 was awarded to a team of two students from the School of Architecture at Tulane University: Susan A. Casente and David M. Connick. Their sponsor was Professor Eugene D. Cizek, Ph.D., AIA. The team of students produced drawings of the Sindos-LaTorre-Boucvalt House, New Orleans, Orleans Parish, Louisiana (HABS No. LA-1244). Built circa 1840, the structure is part of the Vieux Carre National Landmark Historic District and its architectural quality, integrity and important African-American heritage justify its status as a National Historic Landmark.

Third Place and \$1,000 was awarded to a team of eleven students from the School of Architecture at Louisiana State University: Vanessa Bartfay, Jill Behrens, Dawn Capuano, Stevan Caronia, Katherine Diamond, Kayla Green, Jessica Kennedy, Paulette Lizano, Joanne Ryan, Richmond Savoy, and Rachel Simoneaux. Sponsors were William R. Brockway, FAIA, Professional in Residence; and the Louisiana State Historic Preservation Office. The students produced measured drawings of the Marcel Prudhomme House, Opelousas, St. Landry Parish, Louisiana (HABS No. LA-1245). Constructed circa 1770-1810, the structure is representative of the few remaining late eighteenth-century/early nineteenth-century Louisiana French Creole cottages.

Fourth Place and \$500 was awarded to a team of three students from the College of Architecture at Texas A&M University: Elizabeth Barboza, Christopher May, and Scott Tibiletti. Sponsors were Professor Barry Moore, FAIA, Director, Center for Historic Preservation, University of Houston; Professor David G. Woodcock, AIA, RIBA, Director, Historic Resources Imaging Laboratory, Texas A&M University; and Historic Jefferson Foundation. The students produced measured drawings of the Rowell-Deware Dependency, Jefferson, Marion County, Texas (HABS No. TX-149-A). Built circa 1856, the structure was listed as a Texas Historic Landmark in 1966.

In addition to the top prizes, the jury awarded four other entries Honorable Mention in the competition. They were:

School: University of Southwestern Louisiana
Students: Mohd Noor Baba, Brian Boudreaux, Lisa Bourque, Yang-Chen Chien, Dan Friedman, Jason Frey, Greg Girouard, Nathan Jagneaux, Michael Keller, John Linahan, Paul Lucia, John Romero, Kerwin Theriot, Cheri Trahan, Sherrie Viator, Dean Wild, and Roxanne Yazdi
Sponsors: Professor Dan P. Branch, AIA
 Louisiana State Historic Preservation Office
Building: Crowell Lumber Mill, Lafayette, Rapides Parish, Louisiana (HABS No. LA-1233)

School: Louisiana State University
Students: Wenfei Feng, Cheryl Robertson, and Emma Storr
Sponsors: Professor Jay Edwards, Ph.D.
 William R. Brockway, FAIA, Professional in Residence
Building: Ory House, Baton Rouge, East Baton Rouge Parish, Louisiana (HABS No. LA-1242)

School: Louisiana Tech University
Students: Lance Bonvillian, Tony DeCastro, David Gray, Quentin Hunter, Kendrick Jones, Stephen Morris, Stan Smith, and Richard Steen
Sponsor: Professor F. Lestar Martin
Building: Jones Residence, Melrose, Natchitoches Parish, Louisiana (HABS No. LA-1243)

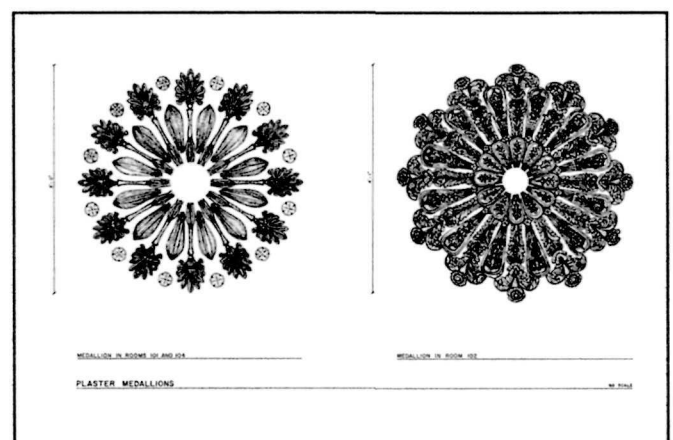
School: University of Maryland, College Park
Students: Eun-Kyu Thomas Cha, Mustafa Ali, and Keith A. Palma
Sponsor: Judith Capen, AIA
Building: Chisholm House, Garrett Park, Montgomery County, Maryland (HABS No. MD-1101)

The 1994 jury included Rebecca Mayne, Architectural Archivist-Cataloguer, The Athenaeum of Philadelphia; Charles H. Atherton, Secretary, U.S. Commission of Fine Arts and representative of the HABS Foundation; and Herbert W. Levy, FAIA, of Philadelphia, Commissioner of the American Institute of Architects and member of the AIA-HABS Advisory Committee.

The 1994 competition produced nineteen entries from thirteen different universities. Four of the entries are designated as National Historic Landmarks; ten additional entries are listed in the National Register of Historic Places; and two are National Park Service sites. The 85 students who participated in 1994 produced 158 measured drawings for inclusion in the HABS collection.

This was the twelfth year the Charles E. Peterson Prize was awarded. To date, over 1,100 students from 50 colleges and universities have participated, completing 232 entries -- a total of 2,387 measured drawings.

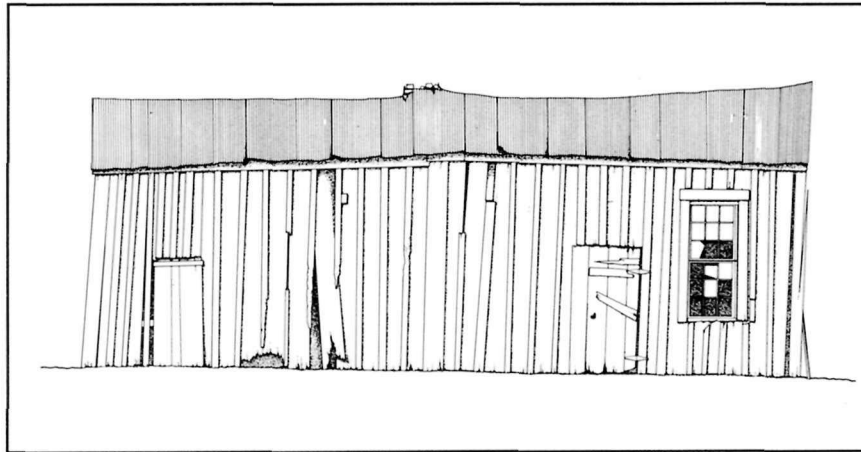
The Charles E. Peterson Prize Fund is maintained by The Athenaeum of Philadelphia to endow the cash awards of the Peterson Prize competition. Tax-deductible contributions to the fund are welcome and may be made by sending a check payable to "The Athenaeum - CEP Prize Fund" to: Dr. Roger W. Moss, Jr., Executive Director, The Athenaeum of Philadelphia, 219 South Sixth Street, Philadelphia, PA 19106.



Plaster Medallions, Sindos-Latorre-Boucvault House, New Orleans, Orleans Parish, Louisiana (HABS No. LA-1244, Sheet 13 of 13). Delineators: Susan A. Casente and David M. Connick - 1993. This set of measured drawings received second place in the 1994 Charles E. Peterson Prize competition submitted by a team of students from Tulane University.

Kenneth L. Anderson Prize

The College of Architecture, Texas Tech University and HABS announced the winner of the first annual Kenneth L. Anderson Prize for the best set of measured drawings prepared to HABS standards and donated to HABS from a school of architecture in the State of Texas. The Prize honors Kenneth L. Anderson, former chief of HABS and graduate of Texas Tech University.



North Elevation, *Rowell-Deware Dependency*, Jefferson, Marion County, Texas (HABS No. TX-149-A, portion of Sheet 3 of 7). Delineator: Scott Tibiletti - 1994. A sampling of the winning set of measured drawings in the 1994 Kenneth L. Anderson Prize. The set, delineated by a team of students from Texas A&M University, also received fourth place in the 1994 Charles E. Peterson Prize.

The 1994 Anderson Prize was won by three students from the College of Architecture at Texas A & M University: Elizabeth Barboza, Christopher May, and Scott Tibiletti. Sponsors were Professor Barry Moore, FAIA, Director, Center for Historic Preservation, University of Houston; Professor David G. Woodcock, AIA, RIBA, Director, Historic Resources Imaging Laboratory, Texas A & M University; and the Historic Jefferson Foundation. The students produced measured drawings of the Rowell-Deware Dependency, Jefferson, Marion County, Texas.

The Kenneth L. Anderson Prize consists of a cash award, endowed by a fund managed by the Texas Tech University, and a certificate. The prize is judged concurrently with the Charles E. Peterson Prize; however, entry into one competition does not preclude entry into the other. Information about both competitions is available from HABS.

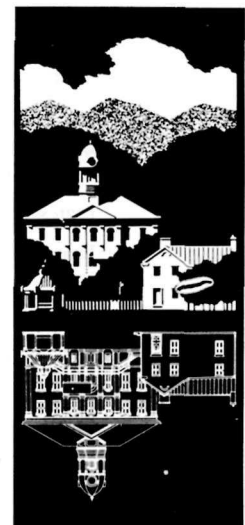
US/ICOMOS Interns Selected

Continuing a cooperative program with the U.S. Committee of the International Council on Monuments and Sites (US/ICOMOS), HABS/HAER utilized the talents of fifteen interns from eleven different countries to work on its summer teams. US/ICOMOS recruits nominees for the positions from other ICOMOS national committees, whose applications are then reviewed by HABS/HAER. This was the twelfth year US/ICOMOS interns worked alongside American employees on HABS/HAER documentation projects. Names of the 1994 Summer interns are listed below:

- Austria**
Christine M. Hasitzka
Technical University of Vienna
- Canada**
Sean C. Ray-Fraser
Technical University of Nova Scotia
- China**
Wang Bing
Tokyo National University of Fine Arts & Music
- Qizhi Tu
Louisiana State University
- Denmark**
Jakob J. Wurtzen
Royal Danish Academy of Art

- Finland**
Timo J. Kauppi
University of Technology, Helsinki
- France**
Agathe Lesage
Aeroport Charles de Gaulle
- Caroline C. Schweyer
Columbia University
- Hungary**
Balazs Krikovszky
Technical University of Budapest
- Zoltan Sugar
Technical University of Budapest

- Poland**
Anna Maria Marconi-Betka
Centre for the Preservation of Historic Landscapes
- Romania**
Christina V. Radu
Direction of Historic Monuments, Ensembles and Sites
- Ukraine**
Andrei L. Pribega
Ukrainian Academy of Fine Arts
- United Kingdom**
Kate E. Curtis
Leeds Metropolitan University
- Jonathan Gill
Ironbridge Institute



Logo of the U.S. Committee of the International Council on Monuments and Sites (US/ICOMOS).

PEOPLE OF HABS/HAER

ON THE MOVE

A. Kim Hoagland, HABS Senior Historian, left in June after fifteen years of service to pursue a teaching position at Michigan Technological University where she will be instructing students in the fields of architectural history and historic preservation. Ms. Hoagland was responsible for a number of important initiatives during her many years with HABS including the extensive documentation of historic resources in Alaska that resulted in the publication of *Buildings of Alaska*, part of the Society of Architectural Historians' *Buildings of the United States* series. She also served as editor for *Monument Avenue*, a cultural landscape study of an important Richmond, Virginia, neighborhood. In America's Industrial Heritage Project in Pennsylvania, she oversaw documentation for HABS of workers' housing in mining, refractory and other industrial towns. In addition to serving as project leader on numerous documentation projects, as Senior Historian, Ms. Hoagland provided leadership for the architectural history program at HABS, writing the *Guidelines for HABS Historical Reports*.

Sara Amy Leach, HABS Historian, worked with HABS for five years prior to transferring to the Natchez Trace Parkway in July 1994 where she became Chief of Interpretation. Among her contributions was the documentation of the L'Enfant Plan for the City of Washington, D.C., resulting in interpretive drawings of the original plan of the city and of subsequent periods of significant change, and an extensive historical report and large-format photographs documenting planned vistas and sites. Ms. Leach also pioneered HABS landscape documentation through major projects at Rock Creek and Potomac Parkway in Washington, D.C., and George Washington Memorial Parkway in Virginia, involving aerial photography to document the roadways and surrounding landscape. She was also responsible for documentation undertaken in conjunction with the New Jersey Coastal Heritage Trail.

Annamiaka C. Russell, HABS/HAER Field Program Coordinator, first worked as an assistant to Marlene Bergstrom, Summer Program Administrator, in February 1993. Ms. Bergstrom's retirement in May 1993, Ms. Russell assumed responsibility for the summer hiring program. She left at the end of the summer of 1994 to pursue her desire to work with young children.

Joel Sabadasz, HAER Historian, worked in the Homestead, Pennsylvania, HAER Field Office since its opening in 1989, and became an expert in the history of Pittsburgh's steel industry. He is presently teaching at various universities in the Pittsburgh area.

Kim E. Wallace, HABS/HAER Historian, worked on America's Industrial Heritage Project (AIHP) from 1988-1994, first in the field as the supervisor for surveys of Johnstown and Altoona, and eventually in the Washington office, where she edited a number of the survey publications and wrote *Brickyard Towns: A History of Refractories Industry Communities in South-Central Pennsylvania*. She also wrote the script for a video documentary of Lock & Dam Number 7, built by the Army Corps of Engineers on the Monongahela River upstream from Pittsburgh.



NEW FACES

Terra K. Klugh joined the Washington office staff as a HABS Foundation historian in June of 1994 editing and preparing documentation to be transmitted to the Library of Congress. Ms. Klugh received her Bachelors of Arts degree in Art History from Hollins College in Roanoke, Virginia, in 1993. Before coming to HABS, she worked in Atlanta on antique furniture restoration and reproduction. Ms. Klugh has completed a variety of projects for HABS, including processing mitigation and reducing a backlog of unedited projects.



Leslie A. Schwab joined the HABS staff initially as a summer hire in 1994 to work on the computer-aided drafting (CAD) phase of the Mesa Verde National Park/Hovenweep National Monument recording project. After the summer, she continued CAD work as a HABS Foundation architect. Ms. Schwab received her Bachelor of Science Degree in Architecture from the University of Wisconsin-Milwaukee, in Milwaukee, and completed additional course work at the University of Delaware and Drexel University. Her private and public sector CAD work in Delaware prepared her for the intensive task of digitizing and editing photogrammetric images of Anasazi ruins at these Park Service Sites.



PROMOTION

Brian L. Cary, Collections Management Architect, joined the Washington office staff as a summer HABS historian in 1992 when he transmitted photographs of more than 1,000 National Park Service structures -- part of the photographic collection of the Eastern Office of Design and Construction (EODC), a division of the National Park Service that once included the HABS program. After the summer, Mr. Cary continued on with HABS/HAER, as Collections Management Assistant, working with the staff in all aspects of preparing documentation for transmittal to the Library of Congress. In his present position, Mr. Cary also takes on responsibility for the successful operations of the Charles E. Peterson Prize and compilation and publication of the *HABS/HAER Review*. A graduate of The University of Arizona, Mr. Cary received a Bachelor of Architecture Degree in 1990, and a Master of Architecture Degree in 1992.



RETIREMENT

Jean Yearby ended thirty-two years of Federal service with her retirement in 1994. Ms. Yearby began her Federal career as a secretary for several agencies, including the Department of Agriculture, the Agency for International Development, the Bureau of Sport Fisheries of the Department of the Interior, and to the White House Fellows. Ms. Yearby became the HAER secretary in 1973, and served as secretary for the entire division from 1980 until 1983, when she was promoted to Publications and Exhibits Specialist -- the latter position being responsible for, among many other things, overseeing the preparation of the precursor of this publication (*HABS/HAER Annual Report*). Although Ms. Yearby undertook many tasks, she never lost her basic loyalty to the men and women of the HAER program.

OBITUARY

Virginia Daiker, a specialist in American architecture, historical prints, and documentary photographs died, in May 1994. For more than forty years and from the inception of the HABS/HAER Collections at the Library of Congress, she provided guidance to thousands of researchers, scholars, students and architects, first as a cataloger, later as a reference librarian and reading room head, and ultimately as a curator. Her career spanned the renewal of interest in the nation's architectural heritage and the emergence and growth of the fields of architectural history and historic preservation. In 1973, the National Trust for Historic Preservation gave her a special award for "generous scholarly dedication in the field of American Architectural History and its documentation and preservation."

ACTIVITIES IN REVIEW



HAER staff and VIPs pose during the Twenty-fifth Anniversary banquet held in the former Gun Factory, now Navy Museum, at the Washington Navy Yard (left to right): Robert Kapsch; Richard Quin; Stafford Thornton, President, American Society of Civil Engineers; Dean Herrin; Christine Madrid; Jet Lowe; Eric DeLony; Richard O'Connor; Christopher Marston; Craig Strong; Todd Croteau; Thomas Behrens; Ford Peatross, Architecture, Design and Engineering Curator, Prints and Photographs Division, Library of Congress; Jerry Rogers, Associate Director, Cultural Resources, National Park Service; and Gray Fitzsimons. Photographer: Jack E. Boucher - 1994.

CELEBRATING HAER'S TWENTY-FIFTH ANNIVERSARY (1969-1994)

Twenty-five years of recording historic sites and structures by the Historic American Engineering Record were celebrated in 1994. On January 2, 1969, Frank Newman, Jr., President, American Society of Civil Engineers, signed the tripartite agreement establishing HAER. George B. Hartzog, Director of the National Park Service, and L. Quincy Mumford, Librarian of Congress, had signed the document the previous week. The agreement established the program to record engineering, industrial, and transportation resources throughout the United States. A "protocol" agreement, signed in 1987, added the support of the other "founding" engineering societies: American Society of Mechanical Engineers, Institute of Electrical & Electronics Engineers, American Institute of Chemical Engineers, and American Institute of Mining, Metallurgical & Petroleum Engineers. In its first quarter-century, HAER produced documentation for more than 4,800 sites and structures.



Stamp to be affixed to HAER drawings produced in 1994.

Public events marking the anniversary included two separate open houses -- one at the HABS/HAER office and another at the Prints & Photographs Division (P&P), Library of Congress -- and a formal banquet. All of the events took place on November 17, 1994. The open house at P&P, in the afternoon prior to the banquet, offered guests and alumni an inside look at HAER documentation in the Collection as well as an array of other industrial and engineering treasures selected from the P&Ps vast holdings. The banquet took place later in the evening at the Washington Navy Yard in the former Gun Factory (1891, 1899), now the Navy Museum (1963). A sumptuous dinner was elegantly served at candle-lit tables; once the site of ordnance manufacture ranging from four-inch to thirteen-inch in diameter. Before eating, brief accounts of HAER were given by representatives from the original tripartite groups. More than one hundred people attended.



HAER lapel pin.

A silver anniversary comes only once; therefore, the staff of HAER took the opportunity to initiate and announce several special projects for the next few years: 1) expansion of HAER entries in the HABS/HAER computer index to facilitate greater research capabilities by the Library of Congress and the public; 2) publication of a Twenty-fifth Anniversary HAER catalog; 3) revision of the HAER Field Manual; 4) creation of a new HAER Historian's Manual; and 5) publication of a new book on nineteenth-century engineering achievements with the ASCE Press. In addition, two exhibit openings are closely linked to HAER anniversary activities. "Making It in the Birmingham District," produced by the Birmingham Historical Society using documentation developed by HAER over the past three years, opened at the National Building Museum on December 15, 1994, and "Highways in Harmony," produced by Todd A. Croteau and Richard H. Quin, based on documentation created during seven years recording roads and bridges of the National Park system, opened at the Interior Museum on December 14, 1994 (see p. 22 for descriptions of these exhibits).

LEGISLATIVE ACTION INVOLVING HABS/HAER

Base funding for HABS/HAER at the beginning of Fiscal Year 1994 was \$ 1.9 million and total expenditures during the fiscal year were approximately \$3.2 million. The difference between these two numbers -- \$ 1.3 million -- came from outside public and private funding for projects.

In 1994, an increase of \$100,000 in HABS/HAER monies was approved in the *1995 Appropriations Bill* for the National Park Service for the conversion of five positions with temporary or term status to permanent positions. These positions will support the Computer-aided Drafting (CAD)/Photogrammetry Initiative and are key to its continued success (see p. 14 *CAD/Photogrammetry Laboratory Update*). The increase in permanent positions is the largest ever received by HABS/HAER; however, due to the National Park Service streamlining initiative and subsequent reduction, these positions may never be realized.

LIBRARY OF CONGRESS ACTIVITIES

In the continuing tradition of mutual cooperation and support, HABS/HAER and the Library of Congress worked throughout Fiscal Year 1994 to ensure that our documentation continued to meet the highest recording and archival standards and that our materials are easily accessible to the public. Activities in 1994 that underscore these efforts follow.

Reduction of HABS/HAER Processing Backlog

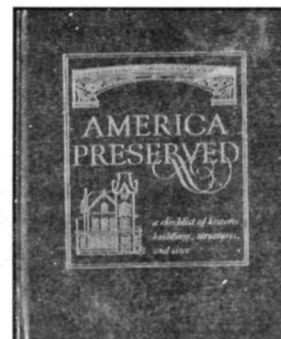
During the 1980s, HABS/HAER sent record amounts of documentation to the Library of Congress, creating a large backlog of unaccessioned materials. The Prints and Photographs Division (P&P) of the Library has processed all records received through 1988, making this documentation now available to the public. Currently P&P is processing documentation transmitted during the period 1989-1994, with a goal of completing it by December 1996.



▷ Prints and Photographs (P&P) Division, Library Technicians (left to right): Barbara Hoyniak, Greg Marcangelo and Megan Keister examine the housing and condition of some of the older HABS drawings in the Collections. Photographer: Sara Duke -1993. P&P has set a target date of December 1996 for processing all HABS/HAER documentation transmitted during the period 1989-1994.

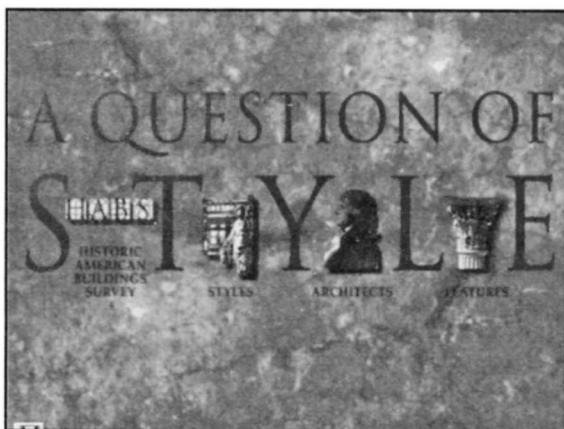
New HABS/HAER Checklist Produced

HABS/HAER and the Library of Congress have prepared an updated checklist of the Collections holdings. *America Preserved: A Checklist of Historic Buildings, Structures, and Sites* offers a comprehensive checklist of all sites and structures recorded by HABS/HAER. Since *Historic America: Buildings, Structures, and Sites*, published in 1983, listings have grown by over 12,000 entries and now include over 29,000 sites and structures. Each entry includes the number of items for each type of material cited (the number of measured drawings, photographs and pages of text), and includes shelflist numbers to help locate materials more easily. The Library of Congress, Cataloging Distribution Services (CDS) will offer the new checklist for sale in May 1995. For information about availability, price and how to order contact CDS by calling (800) 255-3666 or (202) 707-6100.



CD-ROM Project Takes Shape

The Library of Congress Catalog Distribution Services Division (CDS) selected the HABS collection to develop a demonstration compact disc-read only memory (CD-ROM) product to test the feasibility and potential benefits of CD-ROM access to collections. A contract was awarded to Lunaria, Inc., a firm with experience in designing multimedia programs for museum exhibits, education training, public information, and testing and marketing. James C. Massey and Shirley Maxwell, principals, Massey-Maxwell Associates, and historic preservation consultants with extensive knowledge of HABS/HAER documentation, conducted research and wrote the text for each architectural style in the prototype. Other work group members include: from the Library of Congress, CDS: Kathryn M. Mendenhall, Supervisor, Product Development, Customer Service Section; and Robert O. Ralls, Computer Applications; from HABS/HAER: John A. Burns, Deputy Division Chief; and Georgette R. Wilson, Collections Management Administrator; from Lunaria, Inc.: Virginia Rice, Project Manager and a Co-founder and Principal.



Menu screen from CD-ROM prototype "A Question of Style."
Designer: Lunaria, Inc. - 1994.

Initiated in Fiscal Year 1993, the work group completed several important phases of project development. After exploring several concepts, the group agreed to a sampling of architectural styles. The difficulty was in limiting choices to three of the proposed twenty-one architectural styles for the prototype. In the end, Spanish Colonial, Greek Revival and Art Deco styles were selected.

Activities in 1994 culminated with a demonstration of the prototype's first phase at a reception for The American Institute of Architects, Historic Resources Committee (see p. 13 *AIA Historic Resources Committee Open House*). The demonstration featured Spanish Colonial Style architecture and enabled users to click on icons with pull down menus that selected and viewed HABS drawings and photographs of interiors, exteriors, and enlarged architectural details.

THIRTY-THOUSANDTH STRUCTURE TRANSMITTED

On April 4, 1994, the HABS/HAER Collections surpassed the 30,000 mark! Following the second transmittal of the fiscal year the Collections contained documentation for 30,097 historic sites and structures. On this occasion, the staff of HABS/HAER gathered to celebrate the milestone by announcing the selection of *Ship BALCLUTHA* as the honorary thirty-thousandth structure.

HAER's complete set of documentation of *Ship BALCLUTHA* (HAER No. CA-54, San Francisco, San Francisco County, California) includes 69 measured drawings, original field records, 142 large-format photographs, and 189 pages of written historical and descriptive data. The ship is part of San Francisco Maritime National Historical Park.



Ship BALCLUTHA, San Francisco, San Francisco County, California (HAER No. CA-54-7). Photographer: Jet Lowe - 1988.

▷ *AIA-HABS Advisory Committee and HABS Foundation Members (left to right): (standing) Donald B. Myer, FAIA; Kimberly E. Harden, AIA; Paul D. Dolinsky; David G. Woodcock, FAIA, RIBA; Herbert W. Levy, FAIA; Christopher Gribbs, Assoc. AIA; John A. Burns, AIA; (sitting) James C. Massey; Ann Vytlačil, AIA; Charles H. Atherton, FAIA; S. Allen Chambers; Robert J. Kapsch, Hon. AIA; and C. Ford Peatross. Photographer: Jack E. Boucher - 1994.*



AIA-HABS ADVISORY COMMITTEE ACTIVITIES

On November 5, 1994, The American Institute of Architects (AIA)-HABS Advisory Committee convened at the HABS/HAER office. AIA members present agreed they would continue to operate as an independent advisory group appointed by the AIA Board.

Foremost among the many issues discussed was the current status of HABS in the process of reorganization and reengineering of government. The Advisory Committee unanimously approved a resolution supporting the maintenance of HABS through this period. Other issues discussed included: investigating the establishment of a coalition of architectural schools presently teaching HABS recording and documentation; developing a list of the 100 most significant buildings still unrecorded by HABS; producing a document that would simplify HABS for the general practitioner; creating a HABS field guide for computer-aided drafting/photogrammetry documentation; investigating the possibilities of requiring AIA award-winning projects to be recorded to HABS standards; recording the work of AIA College of Fellows; and researching for sources of funding for HABS activities.

The Advisory Committee was reestablished in November 1993 in conjunction with the HABS Sixtieth Anniversary. With the resignation of Daniel L. Peterson, AIA, Committee Chair, voting members elected Kimberly E. Harden, AIA. Ms. Harden is a long-time friend of HABS. She worked for HABS (both as a student and as a supervisor) and has taught HABS measured drawing courses at Auburn and Tuskegee Universities -- her students have routinely placed in the Charles E. Peterson Prize competition. Other elected members include: Herbert W. Levy, FAIA, Vice Chair; and David G. Woodcock, FAIA, RIBA, Secretary. Paul D. Dolinsky was recognized as a non-voting liaison member and Robert J. Kapsch and John A. Burns, AIA were recognized as guests.

Under the Federal Advisory Committee Act (Public Law 92-463, enacted October 6, 1972) the old HABS Advisory Board was allowed to sunset while HABS/HAER was part of the Heritage Conservation & Recreation Service. A new HABS Advisory Board cannot be established in the Federal Government unless it is legislatively authorized or it is approved in accordance with the rigorous process prescribed within the Federal Advisory Committee Act. Neither has occurred, so HABS/HAER supported AIA in establishing an advisory committee within the AIA organization. The Advisory Committee does not, of course, have the official standing of the previous Advisory Board. Nonetheless, the goal of HABS/HAER is to reestablish official advisory committees for both programs.

Members attending the November 5, 1994 meeting included: Kimberly E. Harden, AIA; Lloyd W. Jary, AIA; David G. Woodcock, FAIA, RIBA; Walker C. Johnson, FAIA; Hugh C. Miller; and C. Ford Peatross. The next meeting of the Advisory Committee will be held in May of 1995 at the AIA National Convention in Atlanta.

HABS FOUNDATION ACTIVITIES

The rejuvenated HABS Foundation was extremely active in 1994. Foundation meetings, under the direction of Chairman Charles H. Atherton, FAIA, were held March 18 and again on May, 20. During their second meeting a formal cooperative agreement between the Foundation and HABS was finalized. This arrangement allows the Foundation to promote HABS in recording significant examples of American building art; train young architects, historians, and photographers; encourage drawing donations to the Survey; educate the American public in the importance of preserving America's historic architectural resources; and disseminate technical information and research to the preservation community and the general public. Toward this end the Foundation is financially supporting the contracting of three Washington office staff: Leslie A. Schwab, working on computer-aided drafting/photogrammetry documentation of Mesa Verde; Terra K. Klugh, editing and transmitting HABS documentation for inclusion in the collection at the Library of Congress; and Timothy M. Davis, completing the editing of histories for the George Washington Memorial Parkway and the Rock Creek and Potomac Parkway projects. The Foundation also took the opportunity to meet jointly with the American Institute of Architects-HABS Advisory Committee which was meeting concurrently. Joint discussions centered upon each organization's unique support of HABS.

On November 15, 1994, the HABS Foundation hosted a reception at the historic Perry Belmont Mansion, Washington, D.C., to pay tribute to recipients of the 1994 honors. New HABS Fellows named were: Leicester B. Holland, Osmund R. Overby, and James C. Massey (see p. 2 *1994 Fellows of HABS*).



AIA HISTORIC RESOURCES COMMITTEE OPEN HOUSE

The Historic Resources Committee of The American Institute of Architects met in Washington, D.C., November 3-5, 1994. HABS/HAER took this opportunity to have an open house for the committee which has supported the Historic American Buildings Survey since its inception in 1933. Measured drawings, large-format photography and written histories from Summer 1994 documentation projects were displayed throughout the office and explained in detail by project leaders from the full-time staff. The Computer-aided Drafting (CAD)/Photogrammetry Laboratory was of particular interest to those attending. In the lab, the Lincoln and Jefferson Memorials project as well as the Washington Monument measured drawings were used to exhibit the power of this new technology. More than 100 architects and preservationists from the Historic Resources Committee of the AIA and other national and local preservation organizations were in attendance.

ASCE ACTIVITIES

HAER's silver anniversary year was marked by the expansion of its longstanding partnership with its principal private sector constituent support group -- the American Society of Civil Engineers (ASCE). Founded in 1852, ASCE is the oldest professional engineering society in America and has a membership of over 150,000. Under the leadership of Stafford E. Thornton, President-elect; James E. Davis, Executive Director; Curtis C. Deane, Managing Director, Washington Office, and Susan M. Sarver, Program Manager and History & Heritage Liaison, cooperation with HAER has greatly increased the organizations' capabilities to inform and educate the general public of the importance of preserving America's engineering heritage.

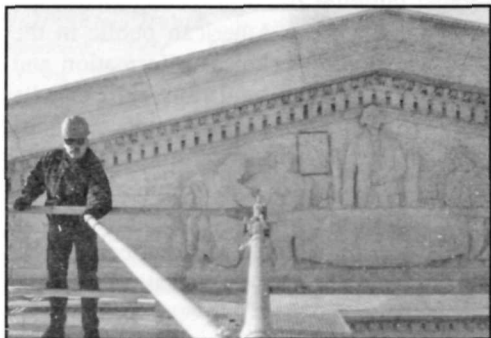
ASCE activities, in 1994, included a new agreement establishing the HAER/ASCE Fellows program. The program provides young professionals with experience in recording significant engineering sites and structures, and preparing HAER documentation for inclusion in the collection at the Library of Congress. In other activities, funds were set aside to: endow a HAER Founders Award for the best set of engineering documentation completed to HAER standards and donated for inclusion in the collection; sponsor the reprinting of a HAER information leaflet; and co-sponsor the HAER Twenty-fifth Anniversary banquet.

On November 9, 1994, the inaugural group of ASCE/HAER Fellows met with Mr. Davis prior to a reception at the ASCE Washington office, honoring Stafford Thornton. Fellows named were Thomas M. Behrens, architect; and historians Christine L. Madrid, Michael G. Bennett.



CAD-PHOTOGRAMMETRY LABORATORY UPDATE

By the end of Fiscal Year 1994, the first three major computer-aided drafting (CAD)/photogrammetry projects were



Mark Schara uses an eleven-foot boom with camera mount attached to scaffold uprights to produce photogrammetric images of the Jefferson Memorial - 1994.

complete: the Lincoln and Jefferson Memorials and the Washington Monument. All three were large structures and each presented unique challenges to the documentation effort. HABS architects Mark Schara, Dana Lockett, J. Raul Vazquez, and Robert R. Arzola, produced a remarkable set of records for use by the National Capital Region, Denver Service Center, and their contractors, in their stewardship of the structures, and will be made available to the public through the HABS/HAER Collections.

For all three memorials, recording teams had access to original construction documents which were helpful but, as is frequently the case, did not always completely reflect the structures as built. The measurements for the drawings came from three primary sources: original documents, hand measuring, and photogrammetry -- for instance: foundation details came from documentary sources, floor plans and the interior of the Washington Monument were most efficiently measured by hand, and decorative features and inaccessible areas were measured using both 2- and 3-D photogrammetry.

New CAD Equipment To Be Utilized

Two major pieces of equipment came on-line this year. The first was a Versatec 8836-II laser plotter that will be used to produce E-size, archival plots up to 36" in width. As was discovered with the CAD work stations last year, huge drawings files can overwhelm the fastest computers. When the plotter (which came with one graphics board having 8MB of memory) was first installed, our largest drawing files would not plot completely. After working with the Xerox technical staff, the solution was to install a second and, ultimately, a third graphics board (each with 8MB of memory) in the plotter. The Xerox engineers were astounded at the demands our drawings made on the plotter. They said that no other client had ever needed two additional graphics boards.

The second piece of equipment was a Vidar TruScan 800PC scanner that will read media up to 36" in width and produce 800 dots-per-inch raster images. It has Rasterware CAD Overlay ESP software for converting line images into CAD drawings and CAD Overlay GSX for converting photographs. We obtained a scanner for three reasons. First, in the near future, we will probably want to transfer HABS/HAER drawings as CAD files. HABS/HAER needs to establish procedures and standards for undertaking such a project while still meeting stringent quality standards. Second, after attempts to have reprographics contractors scan non-HABS/HAER drawings and produce CAD drawings that could become the basis for drawings meeting our standards proved unsuccessful, it was discovered that there are virtually no standards for scanning and that it is very difficult to specify or predict results when this is done as a contracted service. Third, for structures where drawings exist, we would like to develop the capability of scanning these drawings into the computer as the basis of a HABS/HAER set of CAD drawings.

CEREMONY AT THE LINCOLN MEMORIAL

On November 30, 1994, HABS computer-aided drafting (CAD) drawings of the Lincoln Memorial were officially transmitted to the Library of Congress during a ceremony held on the steps of the memorial in Washington, D.C. The drawings were presented by Robert J. Kapsch, Chief of HABS/HAER, to James H. Billington, Librarian of Congress, after having been symbolically passed to Arnold Goldstein, Superintendent of the Mall, and Roger G. Kennedy, Director of the National Park Service. The drawings were laser plots on mylar created using CAD and photogrammetry technologies.



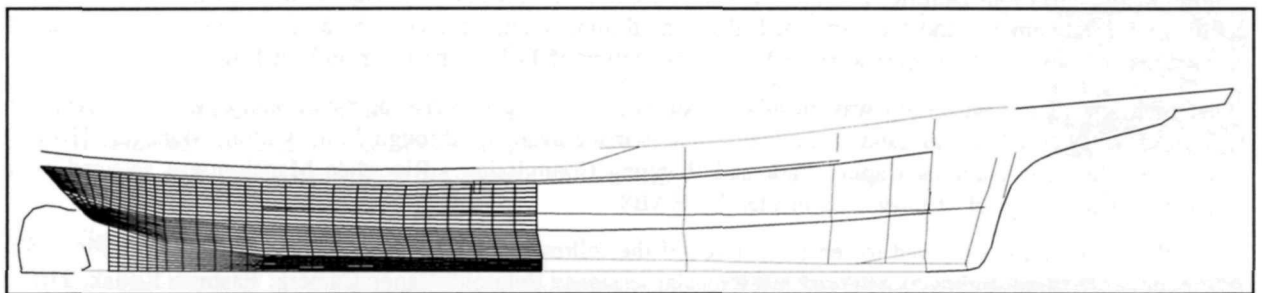
(Left to Right) Roger G. Kennedy, James H. Billington, Arnold Goldstein, Robert Stanton, and Robert J. Kapsch pose during a ceremony at the Lincoln Memorial, November 30, 1994. Photographer: Jack E. Boucher

HAER MARITIME PROGRAM ACTIVITIES

Todd A. Croteau has been assigned the duties of Maritime Program Manager and is working to generate maritime recording projects throughout the United States. HAER is taking advantage of the technology available in the Computer-aided Drafting (CAD)/Photogrammetry Laboratory by developing an experimental project with the Chesapeake Bay Maritime Museum to test the capabilities of computer rectified photogrammetry using Photocad Multi -- a software for three-dimensional recording of non-planer surfaces. The *Skipjack ROSIE PARKS* was selected as the vessel to record. The ship, which contains few straight lines, is a perfect test case for the software. CAD/photogrammetry technology should prove to be an exceptional recording tool for maritime and other non-linear resources.



Skipjack ROSIE PARKS is the object of an experimental HAER CAD/photogrammetry project. Photographer: Todd A. Croteau - 1994.



CAD drawing of the hull of Skipjack ROSIE PARKS, St. Michaels, Talbot County, Maryland, showing three-dimensional recording lines of the ship's non-planar surfaces. Delineator: Robert R. Arzola - 1994.

COOPERATIVE AGREEMENTS



University of Alabama-Birmingham

HAER entered into a cooperative agreement with the University of Alabama-Birmingham in 1994 to expand documentation efforts in the Birmingham Industrial District. Ongoing projects under the agreement are directed by Dr. Jack Bergstresser, Sr., Ph.D., and include mapping and preliminary investigation of Civil War-era charcoal iron industry sites at Shelby, Tannehill and Brierfield, and a contextual study of the cast iron pipe industry in Birmingham.

◀ Dr. Jack Bergstresser, Sr., mapping at Shelby Iron-works in the Birmingham Industrial District. Photograph courtesy of John Brasher, Historic Shelby Assoc.



Birmingham Historical Society

Continuing work initiated under the cooperative agreement signed in 1992, the Birmingham Historical Society, under the direction by Marjorie L. White, undertook documentation of Smith Hall on the University of Alabama-Tuscaloosa campus, the historic Cook House, and Wyatt School. These projects thrust the Birmingham Historical Society into the active management of HABS/HAER documentation for the first time. In addition, documentation for the exhibition "Making It in the Birmingham District" was also carried-out under this cooperative agreement (see p. 22 *Making It In the Birmingham District*).



University of Maryland

The University of Maryland, Historic Preservation Certificate Program (HPCP); the National Park Service, Cultural Resources Training Initiative; and HABS/HAER entered the third year of cooperative activities. During the past three years, historic preservation education and internship opportunities have been offered jointly in an effort to inform and educate Americans about the importance of preserving our nation's historic architectural and engineering heritage. Several specific activities in 1994 demonstrate this interest.



- For the second time in as many years, a four-day workshop "Architectural Photography of Historic Structures" was presented at the HABS/HAER Photographic Laboratory, May 23-26, 1994.

Fifteen individuals attended the workshop representing the National Park Service, state historic preservation offices, and private architecture and photography firms -- some coming from as far away as Georgia. They studied a curriculum with a range of photography themes including: composition, filtration, lighting, photographic darkroom facilities and practices, and archival treatments. Individuals were instructed on the use of large format cameras and their special and essential applications to recording architectural and engineering structures. Those in attendance were under the instruction of Jack E. Boucher and Jet Lowe.

One highlight of the workshop was an all-day, on-site recording exercise at the recently restored Riverdale Mansion in Hyattsville, Maryland. The mansion was made available through John Walton, Manager, History Division, Maryland-National Capitol Park and Planning Commission. Riverdale Mansion was selected as a historic structure typical of those documented by HABS.

Special recognition is extended to representatives of the following private sector photographic corporations for their cooperation and enthusiasm in presenting special sessions: Polaroid, Canon Camera, Eastman Kodak, Tiffen Filters and Agfa. For her administrative coordination of the workshop, Mary Corbin Sies, Professor, Department of American Studies, University of Maryland is also acknowledged.

- On November 3, 1994, "The Use of Computer-aided Photogrammetry to Document Historic Structures" was taught by HABS Architects Robert R. Arzola, Dana Lockett, J. Raul Vazquez, and HABS Deputy Chief, John A. Burns. The program was a one-day training course presented for the University of Maryland, Graduate Program in Historic Preservation. The course instructed the eighteen participants in the applications of computer-aided drafting and photogrammetry to recording historic sites and structures. Topics included: determining the applicability of using photogrammetry; photographic strategies and methods; the digitizing process; and the final editing of photogrammetric and CAD computer files.



South Elevation, Chisholm House, Garret Park, Montgomery County, Maryland (HABS No. MD-1101, portion of Sheet 7 of 7). Delineators: Mustafa Ali, Eun-Kyu Cha, Keith Palma - 1993. This set of drawings, produced by a team of University of Maryland students, received an Honorable Mention in the 1994 Charles E. Peterson Prize measured drawings competition.

- "Documenting the Historic Environment" (HISP 6198) was offered during the fall semester of 1994 by HPCP as an advanced course in field recording in which students learned about and applied skills in historic research and recording methods for historic sites and structures.
- Robert J. Kapsch, Chief, HABS/HAER, and Mary Corbin Sies, Professor, Department of American Studies, University of Maryland, initiated a project to make the HABS/HAER Computer Index accessible on the Internet through the National Trust for Historic Preservation Library at the University of Maryland. The conversion process is set to begin in the winter of 1995.
- HPCP graduate student Jonathan Powell fulfilled an internship in the Collections Management program of HABS/HAER. Jonathan worked on organizing

and computerizing the staff reference section, coordinating reproduction requests, and assisting in the assignment of project numbers.

- An interdisciplinary conference on labor history slated for the fall of 1995 will provide an opportunity for scholars from the typically separate disciplines of labor history and architectural history to examine how recent research in building construction history and vernacular architecture studies in the United States have revised our understanding of labor history, the development of the professions, and the industrialization of nineteenth-century building construction.
- Developed in 1994, to be fulfilled in Fiscal Year 1995, a combination University of Maryland and HABS summer recording team is planned for Summer 1995. Students will be able to expand their training in research, inspection, analysis, measuring, and drafting, resulting in completed HABS measured drawings and written historical and descriptive data to be added to the collection at the Library of Congress.

University of North Alabama

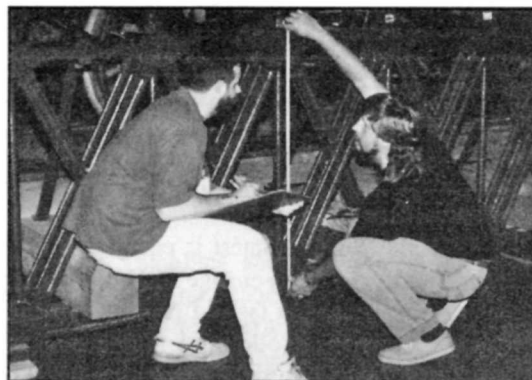
In cooperation with the University of North Alabama, HAER arranged for documentation of rail and power generation facilities in the north and central Alabama regions to complement documentation currently underway in the Birmingham and Muscle Shoals districts. Under the cooperative agreement, HAER received historic construction photos of Wilson Dam and U.S. Nitrate Plant No. 2 at Muscle Shoals, and a history of rail and power development prior to completion of Wilson Dam (see p. 44 *Muscle Shoals/Tennessee Valley Authority*).



SINCE 1830

West Virginia University, IHTIA

In 1994, the Institute for the History of Technology and Industrial Archaeology (IHTIA) documented the 1859 Wheeling Custom House, engineering structures along the National Road, and surviving portions of the West Manayunk Bridge -- built in 1845 as America's first cast and wrought iron railroad bridge (now on exhibit at the Smithsonian Institution). The Custom House project included joint HAER-IHTIA documentation of the building's facade using computer-aided drafting (CAD)/photogrammetry technology, and structural analysis of its important cast and wrought iron framing system. Over two dozen bridges, culverts and other important structures from Cumberland to Wheeling have been photographed and mapped as part of the National Road project, and measured drawings of other bridges and two of the three remaining toll houses will be prepared in the coming year. A draft package of measured drawings of the West Manayunk Bridge have been submitted to HABS/HAER.



Kevin McClung (left) and John Hriblan record field measurements of West Manayunk Bridge, Washington, District of Columbia (HAER No. DC-49). Photographer: Paul Boxley - 1993.

Another project undertaken in 1994 was "Ironmaking in Central Appalachia," a multi-year effort to document and prepare a contextual history of the charcoal iron industry in Western Pennsylvania, West Virginia, Virginia and Ohio. Large format photographs and maps have been prepared for extant furnaces in West Virginia, and it is estimated that as many as 100 sites will eventually be included in the study.



IHTIA actively strives to make its work available to researchers and the public through publications, videotapes and other multimedia systems. Last year's work included the publication of an IHTIA monograph called *Cement Mills Along the Potomac River*, a book-length manuscript entitled *Industrial Archaeology Techniques*, the long-awaited *History of the Northern West Virginia Coal Industry*, two newsletters and two technical reports. Work continues on an industrial archeology guide to the Baltimore and Ohio Railroad in West Virginia, and an interpretive Industrial Archeology guide to the Northwestern Virginia

Branch of the B & O (now North Bend Rail Trail) is scheduled to be printed in the spring of 1995. All publications are available through IHTIA, except for the IA techniques book which is being published by Krieger Publishing Company.

Additional 1994 projects included completion of data collection on over 600 American bridge patents issued 1797-1897, which will culminate in a compendium of the patents and their narrative descriptions intended for use by researchers and highway departments. Other work either begun or completed by IHTIA last year included the study of the history of aqueduct designs, an industrial archaeology field school that documented structures along the National Road, and an archival management course that utilized the HABS/HAER Collections.

HABS/HAER SUMMER PICNIC

The hot and humid days of summer did not deter the approximately 80 staff, family, friends, alumni, and the entire state of Virginia bee population from enjoying the annual picnic held July 24, at Burke Lake Park in Burke, Virginia. As tradition holds, the picnic is the climax of a weekend-long event. On Friday, a kick-off reception took place at the HABS/HAER office, providing an opportunity for summer employees to meet Washington staff and present some of their summer's work, view Washington office projects, and to visit the Computer-aided Drafting (CAD)/Photogrammetry Laboratory. On Saturday, participants took special tours of the White House and the Washington Monument. The Washington Monument tour, guided by Mark Schara, was of particular interest since the CAD staff was in the process of recording the monument.



James Massey (left) and Robert Vogel cut the HAER Anniversary cake during the picnic. Photographer: Monica M. Murphy - 1994.

Sunday brought the main event -- the picnic! Burke Lake Park offered picnickers a variety of activities: volleyball, rowboats, a miniature train to ride, golf, hiking paths, frisbee fields, children's playgrounds, and much more. The traditional T-shirt contest and the cutting of a HAER Twenty-fifth Anniversary cake were just two of the day's special event activities, masterfully presided over by Robert Arzola.

Every year the T-shirt contest is energized by team spirit as it offers an opportunity for staff, representing their projects and programs, to engage in a little friendly competition. In 1994, the competition was fierce and picnickers delighted in the difficult task of judging the entries. When the dust settled on the fashion runway, the results were: First Place -- Collections Management program; Second Place -- Monongahela River (HAER) summer recording team; and Third Place -- East Broad Top Railroad (HAER) summer recording team.



The HAER Twenty-fifth Anniversary cake created by Todd Croteau. Photographer: Monica M. Murphy - 1994.

Cutting of the anniversary cake, designed by Todd Croteau, was also a crowd pleaser. Onlookers were treated to a special presentation by two ardent and long-time supporters of HAER: James C. Massey, former Chief of HABS, and Robert M. Vogel, co-founder of HAER and former Smithsonian curator. Both graciously agreed to an impromptu request to say a "few words" about the HAER program.

The 1994 HABS/HAER Picnic was organized by Todd A. Croteau, Christine L. Madrid, Annamielka Russell, Craig N. Strong, and Georgette R. Wilson. Other planning contributions came from Tom M. Behrens and Robert R. Arzola.

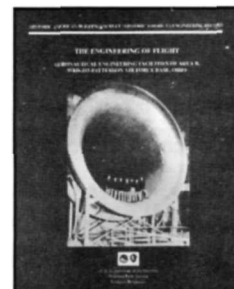
HABS/HAER IN THE PUBLIC EYE

NEW PUBLICATIONS IN 1994

Books

The Engineering of Flight: Aeronautical Engineering Facilities of Area B, Wright-Patterson Air Force Base, Ohio, by edited by Emma J.H. Dyson, Dean A. Herrin, and Amy E. Slaton (Washington: GPO, 1993). **No Cost.**

Few technologies have affected and symbolized modern society as has the development and use of the airplane, and few facilities have influenced aeronautical technology as much as Wright Field in Dayton, Ohio, now known as Area B of Wright-Patterson Air Force Base. Between 1991 and 1993, HAER produced extensive documentation of the aeronautical engineering features of Wright Field, including 52 sheets of measured drawings, over 250 large-format photographs, written histories of 56 structures, two brochures, and a published inventory. The inventory, *The Engineering of Flight - Aeronautical Engineering Facilities of Area B, Wright-Patterson Air Force Base, Ohio*, was published in 1993, and includes an overview history, and brief descriptions, histories, photographs, and drawings of the most historic structures associated with the site. HAER's documentation places Wright Field's facilities in their historic, scientific and political context, and offers substantial data for historians of engineering, architecture, and the military.



[Available by writing Dr. Jan Ferguson, 88th Air Base Wing/EME, Building 89, 5490 Pearson Road, Wright-Patterson Air Force Base, Ohio, 45433-5332. 0-87262-857-4.]

World War II and the U.S. Army Mobilization Program: A History of 700 and 800 Series Cantonment Construction, text by Diane Shaw Wasch, Perry Bush, Keith Landreth, et. al., and James Glass, edited by Arlene Kriv (Washington: GPO, 1994). **No cost.**

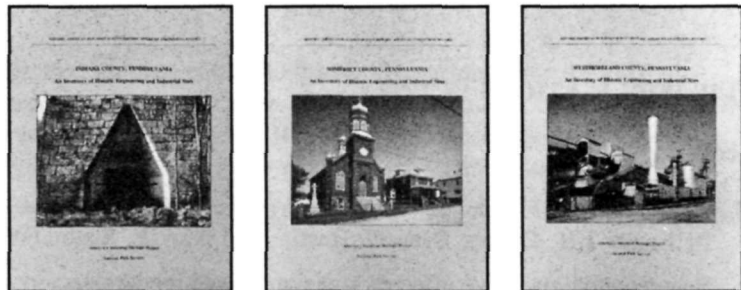
In 1985, following negotiations involving, then, Deputy Chief Sally Kress Tompkins and Principal Architect John A. Burns, HABS/HAER was a signatory to a Programmatic Memorandum of Agreement among the Department of Defense, Advisory Council on Historic Preservation, and the National Council of State Historic Preservation Officers, to govern the mitigation of approximately 25,000 temporary wooden structures remaining from World War II. While all Department of Defense agencies had such structures, the Army owned 23,000, most of them associated with cantonments -- barracks, mess halls, administration buildings, chapels, hospitals and the like, virtually every building type you would find in any town, except those devoted to children. Subsequent discussions between Department of the Army Historic Preservation Officer Constance W. Ramirez and Mr. Burns led to a 1989 Memorandum of Agreement with the Corps of Engineers, under which HABS/HAER produced an overview history of the cantonment construction (Wasch and Bush) and documented a typical 800 Series camp and representative structures, Fort McCoy in Wisconsin (Glass). The Army's Construction Engineering Research Laboratory subsequently studied a 700 Series camp, Fort Edwards in Massachusetts (Landreth, et. al.). This publication, funded by the Legacy Resources Management Program of the Department of Defense, is a compilation of some of the documentation produced by those projects. Another product of the 1989 agreement was to be an exhibit of World War II construction. That proposal evolved into the exhibit *World War II and the American Dream: How Wartime Building Changed a Nation*, which opened at the National Building Museum in November 1994.



[Available from U.S. Army Environmental Center, Attention: SFIM-AEC-ECN (George Wellington), Legacy Program, Aberdeen Proving Ground, Maryland, 21010-5401.]

AIHP Publications

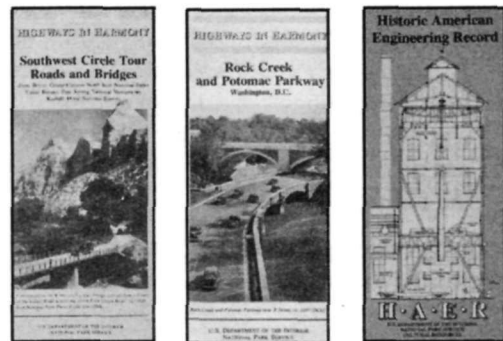
Three more of the America's Industrial Heritage Project (AIHP) series of HAER county inventories were published in 1994: *Indiana County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, by Richard H. Quin, *Somerset County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, by Kenneth D. Rose and G. Gray Fitzsimons, and *Westmoreland County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, by Kenneth D. Rose and G. Gray Fitzsimons. The last of the series, *Bedford and Fulton Counties, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, by Kim E. Wallace, will be published in 1995.



Copies of all three new AIHP publications are available from the Southwestern Pennsylvania Heritage Preservation Commission, 105 Zee Plaza, Holidaysburg, Pennsylvania, 16648; telephone: (814) 696-9380.

Leaflets

Two more of the HAER *Highways in Harmony* leaflets on National Park Service roads and bridges were published in 1994. *Southwest Circle Tour Roads and Bridges* features the 1993 HAER documentation of the regional road system linking Zion, Bryce, and Grand Canyon North Rim National Parks; Cedar Breaks and Pipe Springs National Monuments; and Kaibab and Dixie National Forests (written by: Michael F. Anderson, edited by: Richard H. Quin, designed by: Todd A. Croteau). *Rock Creek and Potomac Parkway, Washington, D.C.* reports the results of a two-year HABS initiative to study the parkway, which runs through the Rock Creek valley from the National Zoo to the Potomac River, as a highway in the landscape (written by: Timothy M. Davis, designed by: Todd A. Croteau).



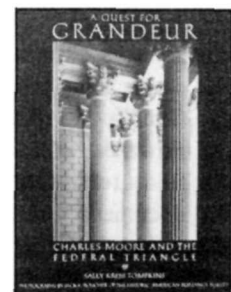
HAER Roads & Bridges leaflets are available through the individual parks. HAER program leaflet is available through HABS/HAER.

H^oA^oE^oR, the newly revised Historic American Engineering Record leaflet, was produced in cooperation with the American Society of Civil Engineers. The leaflet explains the HAER program, recording projects (including work in industrial heritage areas), maritime documentation, mitigation documentation, donations, publications, and access to the collection at the Library of Congress. The cover illustration features a drawing by Scott Clanton of the John Fritz-designed High House, part of the heavy forging operation at Bethlehem Steel in Bethlehem, Pennsylvania. Copies of the leaflet are available from the HABS/HAER office.

AWARD-WINNING PUBLICATIONS

DēSIGN & Effectiveness Competition Award

Smithsonian Institution Press publication, *A Quest for Grandeur: Charles Moore and the Federal Triangle*, was acknowledged as a top design of an illustrated book at the Washington Book Publishers awards program held May 19, 1994. This was the second consecutive year that a HABS publication received this award -- in 1993, *Landmarks of Prince George's County* was also designated a top design. Preparation of *A Quest for Grandeur* followed Sally Kress Tompkins' death in 1989, and is based on her master's thesis on Charles Moore and the development of the Federal Triangle in Washington, D.C. Smithsonian Institution Press, ably represented by Acquisitions Editor Amy Pastan and Production Editor Rebecca Browning, agreed to publish the work. Caroline R. Bedinger, then HABS/HAER Historian, served as the project leader and Jack E. Boucher worked to richly illustrate the 181-page book.



ADCMW 45th Annual Show Selection

Johns Hopkins University Press publication, *Landmarks of Prince George's County*, was selected to be exhibited at the Art Directors Club of Metropolitan Washington 45th Annual Show, October 1-14, 1994, in the Hemicycle Gallery of the Corcoran in Washington, D.C. The book was the result of a model documentation project developed by Robert J. Kapsch, Chief, HABS/HAER, and Gail C. Rothrock, Historic Preservation Coordinator, Prince George's County, to demonstrate how HABS/HAER can work with local governments to comprehensively record its historic structures. Jack E. Boucher and Catherine C. Lavoie documented 42 structures throughout Prince George's County using large-format photography and were assisted by Susan G. Pearl, Historian, Maryland National Capital Park and Planning Commission. The concept of a book representing the best of this documentation was developed by Diane R. Maddex, President, Archetype Press. George F. Thompson, Acquisitions Editor and James Johnston, Vice President, The Johns Hopkins University Press, also greatly facilitated the project and its success.



FORTHCOMING PUBLICATIONS

Whenever possible, HABS/HAER emphasizes publication through university and other established presses, so as to alert a wide community to the existence of HABS/HAER documentation. University and other established presses use peer review, reach large audiences, have greater professional credibility, are of higher quality and are less costly to the Government than Government publications. Current publication projects include the following:

America Preserved: A Checklist of Historic Buildings, Structures, and Sites, Recorded by the Historic American Buildings Survey and the Historic American Engineering Record, introduction by Georgette R. Wilson and Marilyn Ibach, foreword by Robert J. Kapsch, Ph.D., and Stephen E. Ostrow, Ph.D. To be published by Library of Congress, Cataloging Distribution Services Division, Spring 1995.

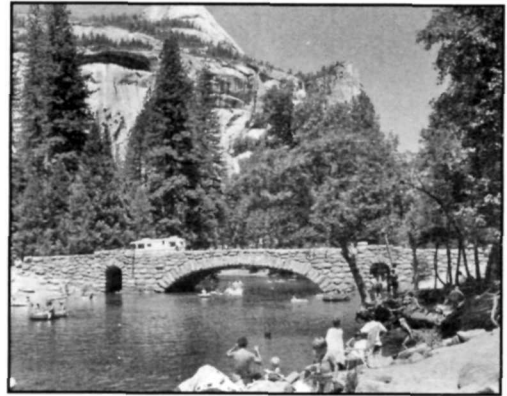
Published by the Library of Congress Cataloging Distribution Service upon the occasion of the 60th anniversary of HABS and the 25th anniversary of HAER, and scheduled for release in Spring 1995, the publication is the first national catalog to the HABS/HAER Collections since *Historic America* was published in 1983. In that time, 14,000 structures have been added to the combined collections, nearly doubling their size. The new catalog will include quantities of documentation (measured drawings, large format photographs, written historical and descriptive data, and photo caption pages), indicate the presence of field records and large format color transparencies, and cite the Library of Congress shelf-list numbers, each essential for retrieving documentation or ordering reproductions.

Monticello: Drawings of the Historic American Buildings Survey, text by William L. Beiswanger and Paul D. Dolinsky; drawings by Isabel C. Yang. To be published by Thornwillow Press, Winter 1995.

Thornwillow Press is a small New York City press dedicated to producing small runs of high quality books. Thornwillow Press publisher Luke I. Pontifell became interested in publishing the superb Monticello drawings of HABS architect Isabel C. Yang. In an agreement between Daniel P. Jordan, executive director, the Thomas Jefferson Memorial Foundation, and HABS, Mr. Pontifell agreed to publish the Monticello drawings in conjunction with the 250th anniversary of the birth of Thomas Jefferson in 1993. He intends to recreate the appearance and feel of the fine eighteenth century architectural publications: copper plates will be engraved from the HABS drawings and imprinted on to individual sheets of 100% rag mold-made paper and enclosed in a large format, gold tooled, lined leather portfolio. The resulting two-hundred-fifty books will be sold by subscription for five-hundred dollars.

EXHIBITS

"Highways in Harmony: Roads and Bridges in the National Parks," curated by Todd A. Croteau and Richard H. Quin, at the Department of the Interior Museum, was on display from December 14, 1994, through February 28, 1995. The exhibit, celebrating HAER's Twenty-fifth Anniversary, recounts the evolution of national park roads from early toll and Army Corps structures through "Mission 66," and illustrates the unique characteristics that distinguish park roads from others. The exhibit includes large-format, black-and-white and color photographs, drawings, historical reports and leaflets developed over eight years of recording. A display case contains a sample copy of documentation transmitted to the Library of Congress, recording tools and historic archival research materials.



▷ *Stoneman Bridge, Yosemite Village vicinity, Mariposa County, California (HAER No. CA-95). Photographer: Brian Grogan - 1991. Exhibited as part of "Highways in Harmony."*

"Montgomery County, Pennsylvania," an exhibition of approximately sixty large-format photographs of structures documented by HABS in this Southeastern Pennsylvania County and environs was held during the month of October at Grey Towers on the campus of Beaver College in Pennsylvania. The exhibition was the culmination of the summer's work to document local landmarks through photography and written history. The photographs were the work of HABS photographer Jack E. Boucher and contract photographers James W. Scott and Joseph E.B. Elliott. The exhibition included a brief history of each site and an information panel demonstrating the extent of the documentation through the display of one complete transmittal to the Library of Congress. The program included remarks by Congresswoman and project cosponsor Marjorie Margolies Mezvinsky, and Herbert W. Levy, FAIA, who headed the citizens advisory committee for the project. The exhibition was created by Jack E. Boucher and Catherine C. Lavoie (see p. 37 *Southeastern Pennsylvania*).



Glencairn, Bryn Athyn, Montgomery County, Pennsylvania (HABS No. PA-6036-2). Photographer: Jack E. Boucher - 1994. Exhibited as part of "Montgomery County, Pennsylvania."

"Making It in the Birmingham District," an exhibition of HABS/HAER photographs and drawings opened in Birmingham, Alabama, in 1994, and will appear at the National Building Museum, Washington, D.C. from December 15, 1994 through June 4, 1995. Produced during the first three years (1990 - 1993) of HABS/HAER's extensive documentation of the Birmingham Industrial District, the detailed drawings and contemporary photographs of active and dormant industrial, residential and commercial sites illustrate the role of large-scale mining and metals production in shaping Birmingham's development during the late nineteenth and twentieth centuries. The exhibition was made possible by a cooperative agreement between HABS/HAER and the Birmingham Historical Society, and also received funding from the Alabama Humanities Council and the Alabama Power Company. It was compiled by the Birmingham Historical Society under the direction of Marjorie L. White.

"Trunnions, Bascules and Cantilevers: Historic Washington Bridges Recording Project," was displayed in the Legislative Building during the 1994 session of the Washington State Legislature, from January 10 through June 4, 1994. The exhibit featured measured drawings, large-format photographs and narrative text produced by HAER, highlighting thirty of the most historically significant bridges in the State of Washington. In addition to HAER documentation, the exhibit included historic construction photographs, a continuous-loop video of aerial photography, and audio narrative on several bridges in the Puget Sound area. The Washington State Capital Museum, a branch of the Washington State Historical Society, David L. Nicandri, Director, organized this travelling exhibit in collaboration with the Washington Department of Transportation and Community Development and HAER. In May 1994, the exhibit received the Washington State Historic Preservation Officer's Award for Outstanding Achievement in Public Education -- Robert W. Hadlow, Guest Curator. In the fall of 1994, it began a two-year travelling engagement to historical societies and other agencies around the state.

PRESENTATIONS BY HABS/HAER STAFF

Robert R. Arzola and **Todd A. Croteau** presented a paper and a slide show on the HAER Maritime Program and computer-aided drafting (CAD)/photogrammetry at the internationally represented conference "Technical Aspects of Maintaining, Repairing & Preserving Historically Significant Ships," sponsored by the U.S. Navy Historical Center at USS CONSTITUTION, Boston, Massachusetts. The presentation highlighted the need to document and "preserve on paper" the historic vessels of the United States and illustrated some of the standards and techniques applied when recording ships, particularly the standards and techniques relating to photogrammetry.

John A. Burns, AIA made the following presentations in Fiscal Year 1994:

- "Shaker Architecture and the Historic American Buildings Survey," at the National Historic Landmark Plaque Award Ceremony at the Canterbury Shaker Village, Canterbury, New Hampshire, October 15, 1993.
- "Documenting State Capitols and Other Large Public Structures," before the Commission on the Preservation of the State Capitol, Atlanta, Georgia, February 4, 1994.
- "Documenting Existing Buildings: Measured Drawings and the Historic American Buildings Survey," for continuing education seminar, *Latest Techniques in Preservation Technology: What You Need to Know, at EDGES LA94: Succeeding Through Change* (1994 AIA National Convention), Los Angeles, California, May 14, 1994.
- "Demonstration Houses: Innovations in 20th Century House Construction," for Transportation Research Board 1994 Summer Workshop, Historical and Archeological Preservation in Transportation (A1F05), Princeton, New Jersey, August 4, 1994.
- "THAT House is in WASHINGTON???" Demonstration Houses in Metropolitan Washington," for *Beyond the Mall*, a Symposium on the Historic Development of Washington, D.C., sponsored by the Latrobe Chapter of the Society of Architectural Historians and the National Building Museum, Washington, D.C., December 3, 1994.

Todd A. Croteau made a presentation about the HAER Maritime Program at the *Chesapeake Bay Maritime Museum Skipjack Symposium* sponsored the museum and the State of Maryland. The presentation focussed on the preservation of the disappearing fleet of historic skipjacks that harvest seafood from the Chesapeake Bay. A long-range, state-funded program to record the waning fleet is being initiated and HAER hopes to participate.

Eric N. DeLony made the following presentations in Fiscal Year 1994:

- Landmark American Bridges* lecture and book-signing at the United Engineering Center Auditorium, New York, New York, January 27, 1994.
- "HAER's Documentation Program," for a preservation class at The Catholic University of America, Washington, D.C., February 17, 1994.
- "Laughery Creek Bridge: Sole-Surviving Triple-Intersection Whipple in America," at a meeting of the Historic Landmarks Foundation of Indiana, Lawrenceburg, Indiana, March 10, 1994.
- "Historic Bridges of New York & Environs," at Tweed Courthouse for the Municipal Engineers of the City of New York, April 27, 1994.
- "Landmark American Bridges," at the Office of Engineering, New York State Department of Transportation, Albany, New York, May 16, 1994.
- "HAER's Documentation Program," at the Mather Training Center for the National Park Service Professional & Maintenance Employees, (in conjunction with Paul D. Dolinsky, HABS Chief).
- "Twenty-five Years Documenting Industrial Heritage," *The Ninth International Conference on the Conservation of Industrial Heritage*, Montreal and Ottawa, Canada, June 1, 1994.
- Eleventh Annual Historic Bridge Symposium*, Chair, Society for Industrial Archeology Annual Meeting, Toronto, Canada, June 4, 1994.
- "Cast & Wrought-Iron Bridges in America," *Department of Civil Engineering Conference*, Carnegie-Mellon University, Pittsburgh, Pennsylvania, June 18, 1994.
- "Cultural Resources and Partnerships," *Forging Preservation Partnerships: Principles and Practice*, Pacific Northwest Conference, Portland, Oregon, July 25, 1994.
- "Summary Comments," *Historic Bridge Session, Environmental, Historic & Archeological Concerns in Transportation Sub-Committee Joint Meeting*, Transportation Research Board, Princeton, New Jersey, August 5, 1994.
- "Cast & Wrought-Iron Bridges in America," Keynote Speaker, *Lincoln Highways Association Annual Conference*, Ames, Iowa, August 26, 1994.
- "HAER's Roads & Bridges in the National Park System Program," at the National Park Service Design Review Division, National Capital Region, Washington, D.C., September 21, 1994.

Robert J. Kapsch, Ph.D. reported on the status of the HAER Maritime Recording Initiative at the annual meeting of the Council on American Maritime Museums (CAMM), Washington, D.C., March 25, 1994.

NEWSLETTER, NEWSPAPER & MAGAZINE ARTICLES

Articles Written by HABS/HAER Staff

"Foreword," by Eric N. DeLony, *Works in Progress*, Alvin Rosenbaum, Pomegranate Artbooks, San Francisco, 1994.

"The Golden Age of the Iron Bridge," by Eric N. DeLony, *American Heritage of Invention & Technology*, Fall 1994, Vol.10, No.2.

"Using AutoCAD and Photogrammetry to Preserve History," by Mark Schara, *Autodesk Federal Bulletin*, Winter 1994, pp. 5-7.

"Measured Drawings and Historic Architectural Records," "Measurement Techniques" and "Historic American Buildings Survey (HABS)," by John A. Burns, AIA, *Architectural Graphic Standards*, 9th ed. New York: John Wiley, 1994, pp. 774-777.

"Surviving Cast & Wrought-Iron Bridges in America," by Eric N. DeLony, *IA: The Journal of the Society for Industrial Archeology*, Vol.19, No.2, 1993.

Articles Referencing HABS/HAER

"Annual Fellowships," *Society of Architectural Historians Newsletter*, June 1994, p. 3.

"Archival Management Class & HABS/HAER Online," by Larry Sypolt, *Field Notes*, Vol. IV, No. 2, The Institute for the History of Technology and Industrial Archaeology, West Virginia University, Eberly College of Arts & Sciences, p. 6.

"HABS Happenings," *Preservation In Print*, Vol. 20, No. 10, Louisiana State Historic Preservation Office, Preservation Resource Center of New Orleans, Louisiana, December 1993, p.7.

"KU Students Win Peterson Prize," *Kansas Preservation: Newsletter of the Kansas Historic Preservation Office*, Vol. XVI, No. 2, January-February 1994, Kansas State Historical Society, Topeka, Kansas, p. 10.

"A Monumental Series," *CRM* magazine, Vol 17, No. 4, U.S. Department of the Interior, National Park Service, Cultural Resources, Washington, D.C., 1994, pp. 34-5.

"Peterson Awarded Merit Citation," *Society of Architectural Historians Newsletter*, June 1994, pp. 5-6.

"Preserving America's Architecture", by Debra D. Muller, *Classic Home* magazine, Special Ed., October 1993.

"Privies in Rural Louisiana," *Preservation In Print*, Vol. 20, No. 10, Louisiana State Historic Preservation Office, Preservation Resource Center of New Orleans, December 1993, pp. 30-1.

"Survey Oldest Federal Program," by Peter Loftus, *The Reporter*, July 19, 1994.

Book Reviews

A Quest for Grandeur: Charles Moore and the Federal Triangle

"Review," by H. Gillette, Jr., *Choice*, American Library Association, December 1993.

Tompkins's detailed examination of the maneuvers that went into accomplishing such a feat and Jack Boucher's elegant photographs of interior as well as exterior architectural details restore this effort to the recognition it deserves.

"Guidebooks To Architecture," *The Washington Post*, Washington, D.C., October 16, 1993, p. D9.

"Review," by Susan L. Klaus, *Washington History: Magazine of The Historical Society of Washington, D.C.*, Vol. 5, No. 2, Washington, D.C., Fall/Winter 1993-94, pp. 77-79.

Landmarks of Prince George's County

"Book Review," by David Winfred Gaddy, *Maryland Historical Magazine*, Museum and Library of Maryland History, Maryland Historic Society, Winter 1993, pp. 473,4.

Long overshadowed by its more affluent sister to the west, Prince George's has tended to be looked upon as

"countrified," rural, a bedroom suburb, and area to speed through over super-highways. Here we see a different Prince George's: remnants of the plantation aristocracy ... the struggle in the aftermath of civil war and new-found freedom; country stores; Victorian ornamentation; New Deal heroic carving; and Art Deco.

Landmark American Bridges

"Review," by Richard Sanders Allen, *CRM* magazine, Vol. 16, No. 10, U.S. Department of the Interior, National Park Service, Cultural Resources, 1993, pp. 28-9.

"Bible For Bridges," *American Heritage*, "Editors' Choice," April 1994, pp. 119-20.

... a visual delight ... and a trove of economically presented information, and it can serve equally well as a coffee-table picture book and as a serious desktop reference.

"Crossing In Style," by Philip Morrison, *Scientific American*, January 1994, pp. 155-6.

"Review," by Robert W. Hadlow, *The Public Historian*, 1994, pp. 96-8.

... a sweeping account of three centuries of American bridge-building ... useful for both popular and professional audiences ... a standard work for any serious scholar of American bridge-building.

HABS/HAER RECORDING PROJECTS AND THE MEDIA

Acadia National Park Roads and Bridges

"The Bridges of Acadia: Drawing Bridges a Summer Pastime," *The Bar Harbor Times*, Bar Harbor, Maine, August 18, 1994.

Birmingham

"Birmingham Industrial District Heritage District: Recording project Report," by Dr. Jack Bergstresser, *Birmingham Historical Society Newsletter*, Birmingham, Alabama, December 1993.

"Insites," by Barry Abrams, *Metropolis*, December 1994.

"Joint Effort," by Susan Strickland, *The Birmingham News*, "Scribblers," Birmingham, Alabama, August 23, 1994, p. 2C.

Century of Progress Homes

"Deterioration Menaces Century of Progress Landmarks On Indiana's Lake Michigan Shore," *Historic Preservation News*, February/March 1994.

Georgia State Capitol

"A Capital Idea," *Atlanta Journal Constitution*, Atlanta, Georgia, August 6, 1994.

Lincoln Memorial

"Drawings of Lincoln Memorial Made For Historic Record," *News Release*, U.S. Department of the Interior, National Park Service, Washington, D.C., November 30, 1994, p. 28.

New York Cast & Wrought Iron Bridges

"Bridges To History: New York Surveys Historic Spans," by Raymond W. Smith, *The Newsletter of the Preservation League of New York State*, Vol. 2, No. 4, Fall 1994, p. 1.

"HABS/HAER In the Adirondacks," *Adirondack Architectural Heritage Newsletter*, Vol. 3, No. 2, Keesville, New York, November, 1994, p. 10.

"State Park Bridge Rare Structure," *The Watkins Review & Express*, Watkins Glen, New York, July 20, 1994, p. 12.

"Truss Bridge In Hadley Joins Others In Program," by Forrest Hartley, *The Post-Star*, Glens Falls, New York, July 10, 1994.

Southeastern Pennsylvania

"Archiving County's Landmarks," by Michelle Conlin, *Philadelphia Inquirer*, July 10, 1994, p. MC1.

"Documenting History," *Mainline Times*, "Briefly Put," July 14, 1994.

"Federal Project Cites 60 Historic County Sites," by Peter Loftus, *The Reporter*, July 19, 1994.

"Historic Buildings Selected For Study," by Carl Hessler, Jr., *The Mercury*, July 7, 1994.

"Preservation Program to Study Montgomery's Historic Sites," by Leslie Klein Funk, *The Morning Call*, July 7, 1994, p. B1.

"Preserving History With Federal Funds," by Margaret Gibbons, *Times Herald*, July 7, 1994.

"78 Historic Buildings In County to Be Surveyed," by Diane Marczyk, *The Record*, July 7, 1994.

Washington State Bridges

"Bridges Over Washington: Taking Inventory of Our State's Historic Spans," by Robert W. Hadlow, *Columbia: The Magazine of Northwest History* 8, Spring 1994, pp. 6-11.

"The Fairfax Bridge," by Bart Ripp, *The News Tribune*, January 30, 1994, p. 10.

"The Snake River Bridge At Lyons Ferry: The Washington Department of Highways' Recycling Solution," by Robert W. Hadlow, *Bunchgrass Historian: Journal of the Whitman County Historical Society*, Vol. 21, No. 2, Colfax, Washington, 1993, pp. 4-10.

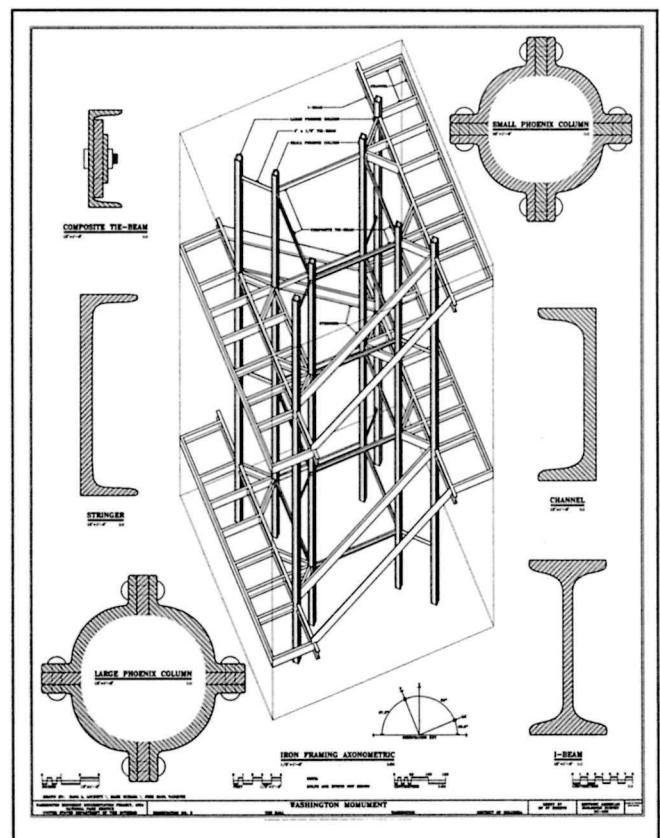
"Trunnions, Bascules and Cantilevers: A Traveling Exhibit Highlighting Historic State Bridges," *History Highlights*, Volume 11, No. 4, March 1994.

Washington Monument

"Computer Project Makes Drawings of Monuments," *The Washington Times*, Washington, D.C., December 1, 1993, p. A8.

"Helicopter Crew Photographs Monument to Look For Cracks," by Thomas D. Sullivan, *Metropolitan Times*, Washington, D.C., September 30, 1993, p. C8.

"A Monumental Task," *The Washington Post*, Washington, D.C., September 30, 1993.



Iron Framing, Washington Monument, Washington, District of Columbia (HABS No. DC-428, Sheet 37 of 37). Delineators: Dana Lockett, Mark Schara and J. Raul Vazquez - 1994.

AVAILABLE PUBLICATIONS

Standards

Secretary of the Interior's Standards and Guidelines for Architectural and Engineering Documentation, compiled by Caroline H. Russell, HABS/HAER, National Park Service. Washington, D.C.: HABS/HAER, 1990, 20 pages, 7 illustrations. **\$1.25**

Details the standards and guidelines for the development of acceptable documentation on historic buildings, sites, structures, and objects, for inclusion in the HABS/HAER Collections. Reprint from the *Federal Register*, Vol. 48, No. 190, Thursday, September 29, 1983, pp. 44730-34.

[Available from HABS/HAER, National Park Service, P.O. Box 37127, Washington, D.C. 20013-7127. Make checks payable to HABS General Donations Account.]

Instructional Materials

Recording Historic Structures, edited by John A. Burns, AIA. Washington, D.C.: The AIA Press, 1989, 240 pages, over 200 illustrations.

The definitive guide to recording America's built environment. Since being issued in 1989, this publication is into its third printing.

[Available from the AIA Order Department, P.O. Box 753, 9 Jay Gould Court, Waldorf, MD 20601. Credit card holders, call (800) 242-4140]

Request: R743 (hard cover) - **\$29.95** [AIA members - **\$26.95**]
R743P (soft cover) - **\$19.95** [AIA members - **\$17.95**]

Guidelines for Recording Historic Ships, by Richard K. Anderson, Jr., HABS/HAER, National Park Service, Washington, D.C., Six chapters.

Marks the revival of the Historic American Merchant Marine Survey of the 1930s and provides the definitive guide to maritime recording.

[This publication is available from the Technical Information Center, Denver Service Center, National Park Service, P.O. Box 25287, Denver, CO, 80225, Tel. 303-969-2130. Request publication #999/D-378. **\$18.60** - Photocopy **\$5.00** - Microfiche]

"HABS Historical Reports," HABS/HAER, National Park Service, Washington, D.C., 1993, 83 pages, 12 illustrations. **\$2.50**

Provides guidelines for producing written data on historic buildings to HABS standards.

The materials listed in the next column can be obtained by writing to HABS/HAER, National Park Service, P.O. Box

Textual

The following publications are the result of an ongoing HABS/HAER-AIHP project and are available from Southwestern Pennsylvania Heritage Preservation Commission, P.O. Box 565, Holidaysburg, PA 16648:

Blair County and Cambria County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites. G. Gray Fitzsimons, editor. Washington, D.C.: HABS/HAER, National Park Service, 1990, 355 pages. **\$8.00**

Architectural Graphic Standards, Ninth Edition, The American Institute of Architects. New York: John Wiley & Sons, Inc., 1994, 864 pages, **\$190.00** plus **\$4.00** for shipping and handling.

The standard reference for architectural information, this edition is the second to have a chapter on historic preservation, including four pages on HABS.

[Available from the AIA Order Department, 9 Jay Gould Court, P.O. Box 753, Waldorf, MD. Request publication No. M475.]

37127, Washington, D.C., 20013-7127 (please make checks payable to HABS or HAER General Donations Account:)

"HAER Field Instructions," HABS/HAER, National Park Service, Washington, D.C., 1981, 201 pages, 87 illustrations. **\$21.17**

Provides guidelines for documenting to HAER standards historic engineering and industrial sites and structures with measured drawings and written data. (Note: These will be replaced with *Recording Historic Structures & Sites for the Historic American Engineering Record* in Fiscal Year 1996.

"HAER Historian Guidelines," HABS/HAER, National Park Service, Washington, D.C., 1994, 25 pages. **\$2.50**

"Recording Structures and Sites with HABS Measured Drawings," HABS/HAER, National Park Service, Washington, D.C., 1993, 75 pages, 61 illustrations. **\$5.46**

Provides procedures for producing measured drawings of historic buildings to HABS standards.

"Specifications for the Production of Photographs," HABS/HAER, National Park Service, Washington, D.C., 1984, 9 pages. **\$1.17**

Provides criteria for the production of large format photographs for acceptance to the HABS/HAER Collections.

"Transmitting HABS/HAER Documentation," HABS/HAER, National Park Service, Washington, D.C., 1985, 131 pages, **\$5.00**

Provides transmittal procedures and archival requirements of documentation for acceptance to the HABS/HAER Collections.

Brickyard Towns: A History of Refractories Industry Communities in South-Central Pennsylvania, Kim E. Wallace, author. Washington, D.C.: HABS/HAER, National Park Service, 1993, 212 pages. **\$15.00**

The Character of a Steel Mill City: Four Historic Neighborhoods of Johnstown, Pennsylvania, Kim E. Wallace, editor. Washington, D.C.: HABS/HAER, National Park Service, 1989, 200 pages. **\$15.00**

The Company Towns of the Rockhill Iron and Coal Company: Robertsdale and Woodvale, Pennsylvania. Lola M. Bennett, author. Washington, D.C.: HABS/HAER, National Park Service, 1990, 98 pages. **\$8.00**

Textual (cont.)

- Fayette County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, Sarah H. Heald, editor. Washington, D.C.: HABS/HAER, National Park Service, 1990, 260 pages. **\$8.00**
- Huntingdon County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, Nancy C. Shedd, author; Sarah H. Heald, editor. Washington, D.C.: HABS/HAER, National Park Service, 1991, 260 pages. **\$8.00**
- Indiana County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites*, Richard Quin, author; Kenneth D. Rose, editor, Washington, D.C.: HABS/HAER, National Park Service, 1993, 277 pages. **\$8.00**
- A Legacy of Coal: The Company Towns of Southwestern Pennsylvania*, Margaret M. Mulrooney, author. Washington, D.C.: HABS/HAER, National Park Service, 1989, 167 pages. **\$8.00**
- Norvelt and Penn-Craft, Pennsylvania: Subsistence-Homestead Communities of the 1930s*, Alison K. Hoagland and Margaret M. Mulrooney, authors. Washington, D.C.: HABS/HAER, National Park Service, 1991, 93 pages. **\$8.00**
- Railroad City: Four Historic Neighborhoods in Altoona, Pennsylvania*, Kim E. Wallace, editor. Washington, D.C.: HABS/HAER, National Park Service, 1990, 502 pages. **\$20.00**

Videotapes

Several videotapes are now available from HABS/HAER at a cost of **\$7.50**. Write to HABS/HAER, National Park Service, P.O. Box 37127, Washington, D.C. 20013-7127. VHS format only. Make checks payable to the HAER General Donations Account.

"Elkins Coal & Coke Company"

A 19-minute documentary on coke production in beehive ovens, filmed in Bretz, West Virginia.

Other Materials

The following publications are available, free of charge, from HABS/HAER, National Park Service, P.O. Box 37127, Washington, D.C. 20013-7127.

CRM magazine, Vol. 16, No. 3, 1993.

An entire issue devoted to the HABS/HAER program. The highly-illustrated publication, edited by John A. Burns, AIA, contained articles by staff members that detailed various aspects of the HABS/HAER program. The articles were:

- "Birmingham Industrial District," by Jack Bergstresser, HAER Project Historian.
- "The Charles E. Peterson Prize - A Consistent Winner," by Caroline R. Bedinger, HABS/HAER Historian.
- "Charleston Photogrammetry," by Mellonee Rheams and Tom M. Behrens, HABS Architects.
- "The Clipper Ship SNOW SQUALL - Translating a Dream Into Reality," by William A. Bayreuther, Executive Director of the Spring Pint Museum, Southern Maine Technical College, South Portland, Maine.

Somerset County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites, Ken D. Rose, Ph.D., and G. Gray Fitzsimons, authors. Washington, D.C.: HABS/HAER, National Park Service, 1994, 247 pages. **\$8.00**

Two Historic Pennsylvania Canal Towns: Alexandria and Saltsburg, Sara Amy Leach, editor. Washington, D.C.: HABS/HAER, National Park Service, 1989, 263 pages. **\$8.00**

Westmoreland County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites, Gray Fitzsimons and Kenneth D. Rose, editors, Washington, D.C.: HABS/HAER, National Park Service, 1994, 399 pages. **\$8.00**

The following publication resulted from the HABS 1989 Red Hill project:

Patrick Henry - Economic, Domestic and Political Life in Eighteenth-Century Virginia, by Kevin R. Hardwick, Virginia: Patrick Henry Memorial Foundation, 1991, 54 pages. **\$5.00**

[Available from the Patrick Henry Memorial Foundation, Red Hill, Route 2, Box 127, Brookneal, VA 24528]

"America on Record: The Work of HABS/HAER"

A 25-minute film, made in collaboration with the National Association of Home Builders, that explains the HABS/HAER summer recording program. The program features the HABS 1990 Death Valley Project and the HAER 1989 Avery Island Salt Works Project. Also available in PAL format.

"Seneca Glass Works"

This 22-minute video was made in 1975 in Morgantown, West Virginia.

"Documenting Rock Creek and Potomac Parkway," by Sara Amy Leach, HABS Historian.

"The Engineering of Flight - Wright-Patterson Air Force Base," by Amy Slaton, HAER Project Historian.

"HABS Documentation in the National Parks," by Joseph D. Balachowski, HABS Architect.

"HABS/HAER - Moving Forward with the Past," by John A. Burns, AIA, HABS/HAER Deputy Chief.

"The Jeannette Glass Study," by Gray Fitzsimons, HAER Historian/Engineer.

"Measuring Buildings for CAD Measured Drawings - The Lincoln and Jefferson Memorials," by Mark S. Schara, HABS Architect.

"The Mon Valley - Discovering the Genesis of the Modern American Steel Industry," by Joel Sabadasz, HAER Historian.

"Recording NPS Roads & Bridges," by Todd A. Croteau, HAER Architect.

"White House Documentation Projects," by Frederick J. Lindstrom, HABS Architect.

Other Materials (cont.)

HABS/HAER Annual Report

A limited supply of 1989, 1990 and 1992 reports are available.

HABS/HAER Review

A limited supply of 1993 and 1994 editions are available.

"HAER's Historic Bridge Program," by Eric N. DeLony, *IA: The Journal of the Society for Industrial Archeology*, Vol. 15, No. 2, 1989, pp. 57-71.

Help Record Historic America, leaflet, 1990.

Brief description of HABS/HAER summer jobs available to qualified architects and historians.

The following publications are available at a cost of \$2.00 each from HABS/HAER, National Park Service, P.O. Box 37127, Washington, D.C., 20013-7127 (Please make checks payable to HABS General Donations Account):

Energy Conserving Features Inherent in Older Homes, by John A. Burns, AIA, U.S. Department of Housing and Urban Development with the U.S. Department of the Interior, 1982.

This booklet discusses ways older buildings were heated, cooled, ventilated and shaded before the advent of mechanical climate control systems. Many are applicable today. Illustrated with HABS photos and drawings.

HABS/HAER: An Annotated Bibliography, compiled by James C. Massey, Nancy B. Schwartz and Shirley Maxwell; edited by Caroline R. Bedinger; printed by the Government Printing Office, 1992.

A brief description of every known publication produced by the Historic American Buildings Survey and the Historic American Engineering Record, from inception through 1990. This bibliography is the definitive work on publications issued by HABS/HAER.

Philadelphia Preserved: Catalog of the Historic American Buildings Survey, by Richard J. Webster; introduction by Charles E. Peterson; forward by Richard Tyler, 2nd ed., Temple University Press, 1981.

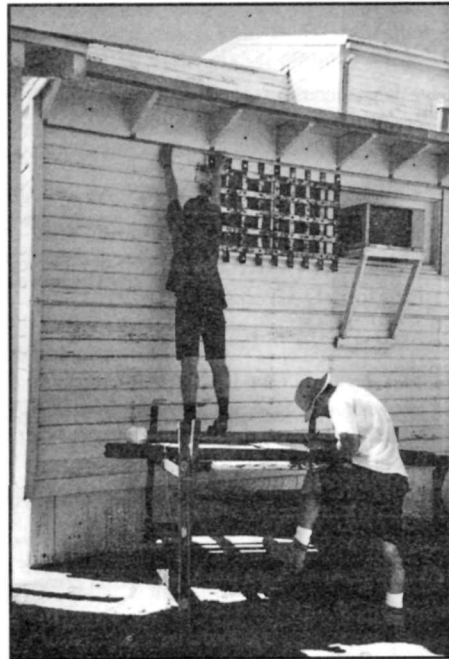
Lists HABS records for Philadelphia, one of only four cities that have their own catalogs. This catalog is organized by sections of the city, each section preceded by an essay on its urban development. A 50-page introduction, "HABS -- In and Out of Philadelphia," by Charles E. Peterson, provides an important look at the first 30 years of HABS history especially in Philadelphia.

Texas Catalog, Historic American Buildings Survey: A List of Measured Drawings, Photographs and Written Documentation in the Survey, 1974, compiled by Paul Goeldner; enlarged by Lucy Pope Wheeler and S. Allen Chambers, Jr.

Includes 285 entries with a short introduction on HABS recording in Texas.



Field Team Members (top to bottom) Carolyn Kiernat, Renata Stachanczyk and Joseph Balachowski set up datum lines inside Hovenweep Castle at Hovenweep Castle National Monument, Utah. Photographer: Margaret Balachowski - 1993.



Field Team Members (left to right) Zoltan Sugar and Christopher Dwyer record measurements of the Auditorium Building at Manzanar National Historic Site. Photographer: Anthony Nash - 1994.

1994 HABS RECORDING PROJECTS

BELAIR MANSION

Project Leader:

Paul D. Dolinsky, Chief, HABS

Cosponsor:

City of Bowie

Team Member:

Jack E. Boucher, HABS Photographer

As part of a cooperative effort with the City of Bowie, HABS photographically recorded significant features of the ca. 1740 Belair Mansion, uncovered during the current rehabilitation of the house. The photo-documentation project provided a rare opportunity to examine and document early techniques of construction and architectural ornamentation. Removal of portions of the existing plaster walls revealed the original walls intact behind the furred-out walls of the early nineteenth century. The original walls include molded panels, chair rails and cornice moldings, and paint colors of the original period of construction, as well as construction details. The planned replastering the structure will once again hide these significant details, which may only be remembered through the photographs.

Belair was erected as the country home of provincial Maryland Governor Samuel Ogle, and was later owned by his son, Benjamin Ogle, state governor of Maryland, 1798-1801. The home, which remained in the Ogle family until 1871, was later updated in the early nineteenth century for use as a year-round residence. It was probably during this period that the furring-out of the walls and replacement of interior features and trim were undertaken. Belair was acquired by James T. Woodward of New York in 1898, and soon thereafter became the country estate of his nephew, William Woodward, a prominent horse breeder. The two hyphenated wings were added to Belair by the Woodwards.

HABS produced large-format photographs of exposed original features of the mansion, which will serve as an addendum to documentation already in the HABS collection. Views consisted of the original plaster work, including raised panel walls and cornices, and original moldings such as the chair rails. Also photographed were the configurations of the original round-arched, fireplace openings and ghosts of the mantelpieces and overmantels. Evidence of original features no longer extant such as the first stairway, and of doorways and windows that give significant clues to changes in the floor plan, were documented. Also photographed were early construction details such as hewn timbers, mortise-and-tenon joints, and pegged floor boards.

Bowie, Maryland



Stair Hall under restoration, Belair Mansion, Bowie, Prince George's County, Maryland (HABS No. MD-87-43). Photographer: Jack E. Boucher - 1994.

CENTURY OF PROGRESS HOUSES

(Multi-year Project)

Project Leaders:

Frederick J. Lindstrom, HABS Architect
Sarah E. Allaback, HABS Historian

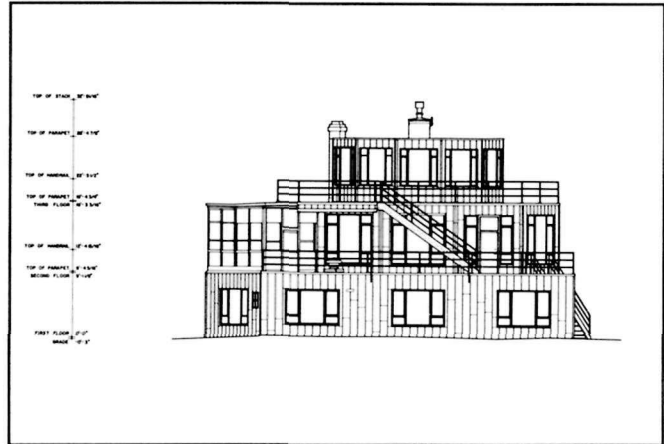
Cosponsors:

National Park Service, Midwest Regional Office
National Park Service, Indiana Dunes National Lakeshore

Team Members:

Judith E. Collins, Architect, Project Supervisor
Maria F. Ali, Historian, University of Pennsylvania
Bert V. Calhoun, II, Architecture Technician, University of Arkansas
Laura J. Culberson, Architecture Technician, Columbia University
David M. Lefton, Architecture Technician, The University of Arizona
Lori A. Smith, Architecture Technician, Howard University

**Indiana Dunes National Lakeshore
Porter, Indiana**



Southeast Elevation, House of Tomorrow, Beverly Shores, Porter County, Indiana (HABS No. IN-243). Delineator: Bert V. Calhoun, II - Century of Progress Houses Project, 1994.

The Chicago Century of Progress Exposition opened in May of 1933 with the theme of science and its role in industrial advancement. Within the Home and Industrial Arts Group were model including: the Armco-Ferro-Mayflower, Wieboldt-Rostone, and Florida Tropical Houses, and Cypress Log Cabin and Guest House and the House of Tomorrow. Each featured modern materials, building methods and innovative home appliances, and utilized new techniques of design, construction and prefabrication in an attempt to bring the out-of-date housing industry into line with more efficient manufacturing practices such as those used by the auto industry. Although prefabrication was not among the Architectural Commission's requirements of durability, convenience, livability and cost-efficiency, it was implied by the science and industry theme of the exhibition. While standardized components had been a part of the housing industry since the late 19th century, interest in prefabrication increased with housing shortages of the 1920s heightened by Depression-era needs for low-cost housing. Manufacturers of new building materials, or developers of new uses for standard materials, further viewed prefabrication as an opportunity to promote their products.

Following the close of the exposition in October of 1934 these houses were purchased by real estate developer Robert Bartlett and transferred to his lake-side subdivision at Beverly Shores, Indiana. The Armco-Ferro-Mayflower, Wieboldt-Rostone, and Florida Tropical Houses and the House of Tomorrow were transported by barge across the lake and raised from the lake onto the dunes through a series of crib works. The Cypress Log Cabin and Guest House were transported by truck from Chicago. The houses were

then reassembled to recreate the "exhibition group." Bartlett saw the exhibition houses as an opportunity to introduce modern architecture and its associations with up-to-date technology into the existing revival-styled community.

Despite Bartlett's plans to furnish, exhibit and then sell the houses, only the House of Tomorrow was purchased by a private owner; the others were periodically rented or left vacant. Development dwindled in the area during World War II and in the years following. The homes were eventually purchased by the National Park Service in 1980 as part of the Beverly Shores addition to Indiana Dunes National Lakeshore which had been established in 1966. In 1986 the houses were listed on the National Register of Historic Places, and in 1993 were placed on the Historic Landmarks Foundation of Indiana's list of the ten most endangered properties in the state.

Summer 1994 was the second year of the two-phase project. Team members sketched, measured and delineated the House of Tomorrow and completed drawings of the Wieboldt-Rostone House, the Cypress Log Cabin and Guest House, the Florida Tropical House and the Armco-Ferro-Mayflower House. Also in 1994, HABS recording team members produced large-format photographs of the houses and compiled a history exploring the origins, evolution and importance of the houses, along with the landscape development of the Beverly Shores Community. These records will be used as base documentation for the future renovation, restoration maintenance and interpretation of the houses.

CHARLESTON COUNTY JAIL

Charleston, South Carolina

Project Leaders:

Frederick J. Lindstrom, HABS Architect
Sarah E. Allaback, HABS Historian

Cosponsors:

Historic Charleston Foundation
Housing Authority of the City of Charleston

Team Members:

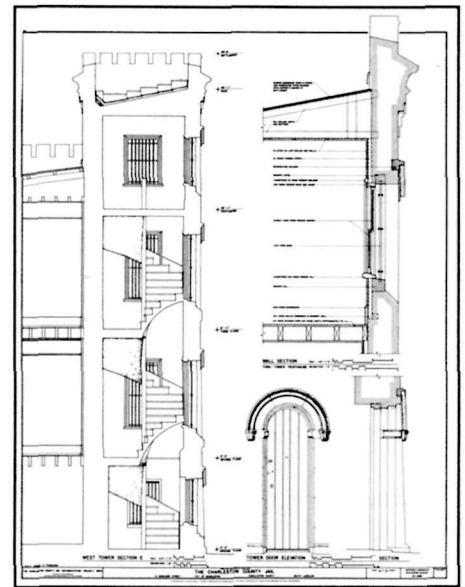
James N. Ferguson, Architect, Project Supervisor, University of Florida
Christine M. Hasitzka, Architect, Technical University of Vienna [ICOMOS] Austria
Geoffrey A. Haskell, Architecture Technician, University of North Carolina
Mary E. Strain, Architecture Technician, University of Florida
Shawn E. Topper, Architecture Technician, University of Florida
Christine Trebellas, Historian, University of Virginia

The Charleston County Jail, commonly referred to as the Old Charleston Jail, is located on the corner of Franklin and Magazine Streets. The jail was built in 1802 and served the greater Charleston district. It was a three-story, brick-masonry structure measuring approximately 50' x 100', which corresponds with the footprint of the main cell block of the present structure. The district jail was modeled after one built in Philadelphia (1790) that incorporated reforms in the criminal code. It replaced an earlier jail on the same city block. In 1822, a four-story, fireproof wing designed by Robert Mills was added to the rear of the jail. Plat maps show a second rear wing, apparently a piazza, added after 1826 to balance the Mills wing. By 1851, the jail was overcrowded and in need of repair. The district of Charleston advertised for new proposals in 1855, and the architectural firm of Barbot and Seyle was awarded the contract in 1856. It is unclear how much of the original brick-masonry structure was incorporated into the four-story medieval design in 1859 for which the earlier mills wing and piazza were demolished.

The remodeled district jail included a main cell block with jailers' quarters flanked by two stair towers to the front, facing magazine street, and an octagonal cell block appended to the rear. The parged, brick-masonry walls, scored to resemble stone, were capped by a decorative battlement with a ledge below supported by a series of corbelled arches. The front facade was the most ornate and included an arched entry of brownstone voussoirs stepped back in a series of six concentric rings. Above the entry were double-arched windows capped with brownstone moldings as were the other rectangular windows. The stair towers were five stories with the west tower having a secondary arched entrance. All windows had cast-iron bars and those in the cell block had additional horizontal reinforcing bars. Inside, a central hallway connected the three sections, with a light well forming a separation between the main cell block and the jailers' quarters. A two-story cupola was located over the octagonal wing to provide additional ventilation.

The jail served as a place of incarceration for both men and women, including debtors, witnesses, slaves and union soldiers during the Civil War. In the late 1820s, slaves were kept in the courtyard to the rear of the jail until the sale of the next market day. From 1861-65, Union prisoners of war were confined alongside criminals and Confederate deserters. Illustrations in *Harper's New Monthly Magazine* depict tents in the rear yard but many of the prisoners were without any shelter.

The jail was severely damaged by the earthquake of 1886, after which the entire



West Tower, Charleston County Jail, Charleston, South Carolina (HABS No. SC-688, Sheet 15 of 15). Delineator: James N. Ferguson - 1994.

fourth-story, the fifth-story of the towers and the cupola over the octagon were removed. A new battlement was constructed at the third-story height. The new roof included large cisterns in the attic for collecting rainwater. The jail has retained this appearance to the present day.

The jail served in an active capacity until 1939, when it was emptied and deeded to the Housing Authority of the City of Charleston. Since then it has been used as a storage facility by the Housing Authority. For brief periods, it has served as a museum, a police sub-station, and as a set for various film productions, including "Queen" and "North and South." A site-specific art installation was constructed in the jail for the 1991 Spoleto Arts Festival. It is scheduled to undergo restoration and an adaptive reuse as a multi-purpose facility supporting the programs of the Authority.

During Summer 1994, the HABS team produced a set of 15 "E-size" drawings and a written history of the jail.

GEORGE WASHINGTON MEMORIAL PARKWAY

(Multi-year Project)

Project Leaders:

Sara Amy Leach, HABS Historian
 Todd A. Croteau, HAER Architect

Cosponsors:

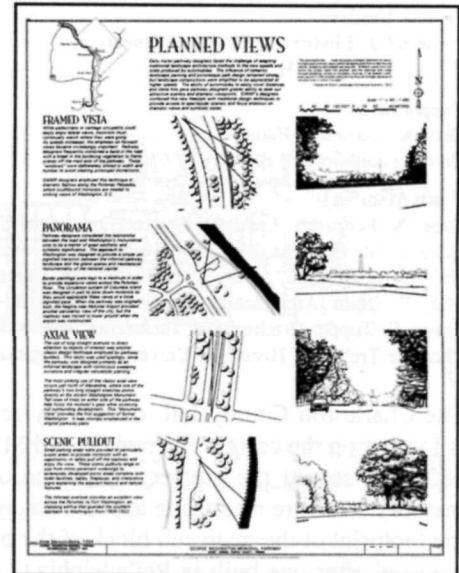
National Park Service, Engineering and Safety Services Division, Park Roads and Bridges Program
 National Park Service, National Capitol Region
 National Park Service, George Washington Memorial Parkway

Team Members:

Timothy M. Davis, Historian, Project Supervisor, University of Texas at Austin
 Michael T. Gala, Architect, The Catholic University of America
 Edward Lupyak, Architecture Technician, Pennsylvania State University
 W. Timothy Mackey, Landscape Architect, Harvard University
 Anna Maria Marconi-Betka, Architect, The Centre for the Preservation of Historic Landscapes [ICOMOS] Poland
 Jennifer P. Wentzien, Engineer, University of Washington
 Jet Lowe, HAER Photographer

This was the second and final year of the HABS project to document the George Washington Memorial Parkway (incorporating the Mount Vernon Memorial Parkway in Virginia and the Clara Barton Parkway in Maryland). The parkway is a lengthy scenic and commuter route that winds approximately 40 miles along the Potomac River shorelines of Virginia and Maryland, and around the national capital. An interdisciplinary team made up of landscape architects, architects, an engineer and a historian studied how the road and its features interact with the changing landscape, which includes bridges, scenic overlooks, marinas, memorials and statuary. The products of this recording project included some 20 sheets of drawings, numerous written bridge reports, a comprehensive written report on the historic context of the parkway, and a more than 200 photographs.

Virginia, District of Columbia, Maryland



*Planned Views, George Washington Memorial Parkway, Mount Vernon, Fairfax County, Virginia
 Delineator: Anna Marconi-Betka - 1994.*

GEORGIA STATE CAPITOL

(Multi-year Project)

Project Leaders:

Paul D. Dolinsky, Chief, HABS
 Frederick J. Lindstrom, HABS Architect

Cosponsors:

Georgia State Building Authority
 Georgia State Capitol Preservation Commission

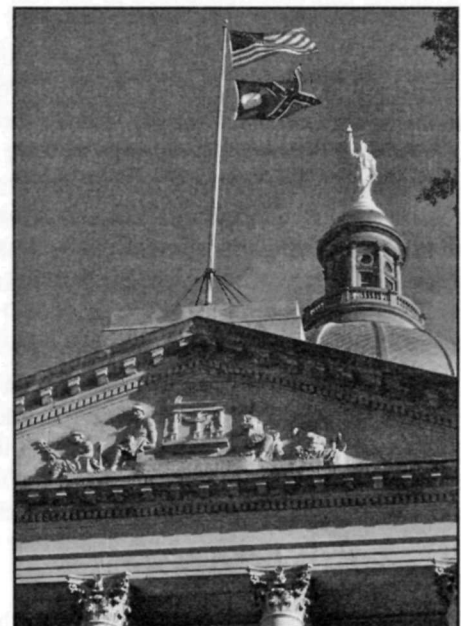
Team Members:

Anne H. Farrissee, Historian and Research Associate, Georgia State University
 Dana Lockett, HABS Architect
 J. Raul Vazquez, HABS Architect
 Jet Lowe, HAER Photographer

The Georgia State Capitol, a Classic Renaissance-Revival design by the architectural firm of Edbrooke and Burnham of Chicago, was constructed over a five-year period, beginning in October of 1884 and dedicated in July of 1889. The Georgia Legislature appropriated \$1,000,000 for the construction of the building in 1883 and it was completed under budget -- \$118.43 remained in the treasury. The Georgia State Capitol was designated a National Historic Landmark in 1977.

▷ *Pediment and Dome Sculpture, Georgia State Capitol, Atlanta, Fulton County, Georgia (HABS No. GA-2109). Photographer: Jet Lowe - 1994.*

Atlanta, Georgia



In 1994, HABS, in a collaborative effort with the Georgia State Building Authority (GBA), and the local architectural firm of Lord, Aeck and Sargent (LAS), began the documentation of the capitol building by recording the exterior and large interior spaces photogrammetrically. The project combined the considerable computer-aided drafting (CAD) expertise of a private firm and the photogrammetric capabilities of HABS. Images produced will assist LAS, to construct a set of HABS measured drawings using CAD and PhotoCAD programs. Traditional large-format photography

was also produced -- by Jet Lowe, HAER staff photographer for HABS. A written history on the building is being produced for the HABS collection by the History Department of Georgia State University under contract with funding from GBA and HABS.

On July 15, 1994, a ceremony honored the Historic American Buildings Survey and its work at the Georgia State Capitol. An exhibit of the work is planned for the Spring of 1995.

GLEN ECHO CAROUSEL

Project Leaders:

Frederick J. Lindstrom, HABS Architect
Sarah E. Allaback, HABS Historian

Cosponsors:

National Park Service, National Capital Region
National Park Service, George Washington Memorial Parkway
National Park Service, Glen Echo Park

Team Members:

Douglas S. Anderson, Architect
Virginia L. Carter, Architecture Technician, La Roche College
Elizabeth A. Fleck, Architecture Technician,
The Catholic University of America
Laura L. Sparks, Historian, University of Missouri
Jakob J. Wurtzen, Architect,
Royal Danish Academy of Art [ICOMOS] Denmark

The Dentzel Carousel, built in 1921, is one of the most enduring attractions in the Glen Echo amusement park, and one of the few historic carousels still on its original site. The park was a late nineteenth-century resort venture and a Chautauqua site before 1899, when it was transformed and reopened as an amusement park. In 1911 the Washington Railway and Electric Company purchased the property in suburban Maryland and developed the Glen Echo amusement park, featuring a dance hall, roller coasters and concessions. Today, only the carousel remains in operation, preserving an aspect of Glen Echo's history as a popular amusement park.

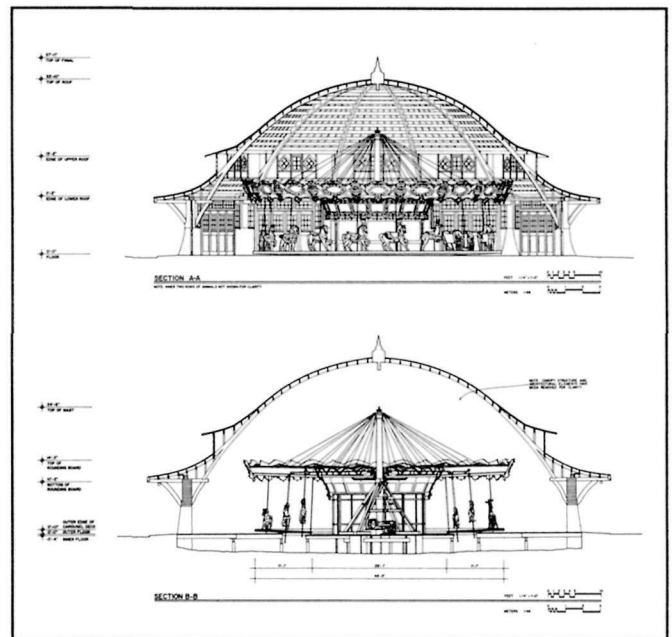
The park purchased the carousel from the William H. Dentzel Company of Philadelphia, which established a successful carousel industry from its founding in the 1860s until William Dentzel's death in 1928. The company's characteristic Philadelphia-style carousels are distinguished by detailed, realistic carvings. The Glen Echo Carousel features several significant horses by one of the most skilled carousel figure carvers in the nation, Daniel C. Muller. Believed to be the first elaborate Jester Head model, the carousel is particularly notable for its quality carvings and its "jumpers"--the middle and inner row animals.

The shingle-style pavilion (1921) containing the carousel is characteristic of carousel houses, but was built of heavier construction materials than were typical. Supported by twelve masonry and brick piers, it features a dual-pitched,

bell-shaped roof with clerestory windows. Folding doors open on eleven sides; the twelfth bay houses a Wurlitzer 165 Military Band Organ. Since 1926, the organ has been one of the few publicly operating Wurlitzer 165 Band Organs and is now the only one accompanying a carousel.

The Glen Echo carousel is one of only sixteen carousels on its original site, out of approximately 200 in the country. A rare example of the Dentzel company's later work, the Glen Echo carousel preserves a dying artistic tradition, as well as an experience very similar to what past park visitors enjoyed

Glen Echo, Maryland



Sections A-A and B-B, Glen Echo Park, Dentzel Carousel and Building, Glen Echo, Montgomery County, Maryland (HABS No. MD-1080-A, portion of Sheet 4 of 6). Delineators: Elizabeth A. Fleck and Jacob J. Wurtzen.

from 1921 to 1968. The brightly whirling carousel continues to display its vibrant combination of architecture, sculpture, music, light, motion and history in Glen Echo Park. In 1980, the carousel became one of the first such structures listed on the National Register of Historic Places. The site is part of the Glen Echo Park Historic District owned and operated by the National Park Service.

The drawings produced by the Glen Echo Carousel team during the summer will become the first set of measured drawings of a carousel and its enclosing structure in the HABS/HAER Collections. The documentation efforts of the team also include a written history and a set of large-format photographs of the carousel, the individual animals and the building.

HARPERS FERRY NATIONAL HISTORICAL PARK

West Virginia

Project Leader:

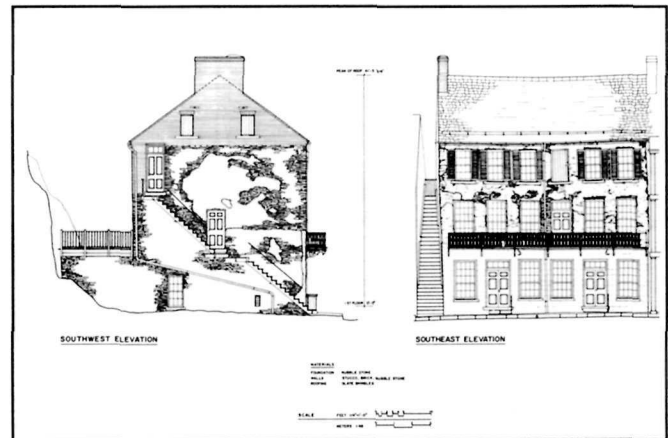
Frederick J. Lindstrom, HABS Architect

Cosponsors:

National Park Service, Harpers Ferry National Historical Park
National Park Service, National Capitol Region

Team Members:

John P. White, Project Supervisor, Architect, Professor,
Texas Tech University
Christa J. Duhig, Architecture Technician,
The Catholic University of America
Leisl J. Fowlkes, Architecture Technician, Virginia Tech University
Eric T. Helgoth, Architecture Technician, Kansas State University
Bridget A. Husted, Architecture Technician, Rhode Island School of Design
Timo J. Kauppi, Architect, University of Technology Helsinki
[ICOMOS] Finland



Elevations, Masonic Hall, Harpers Ferry, Jefferson County, West Virginia (HABS No. WV-279, Sheet 1 of 1). Delineators: Timo Kauppi and John White - Harpers Ferry National Historical Park Project - 1994.

The 1994 Harpers Ferry recording team prepared drawings and large-format photographs of the Masonic Hall (Philip Coons House), Paymaster’s Quarters (Lockwood House) and Reverend Nathan Brackett House. The Paymaster’s Quarters were previously documented by HABS in 1958, but have undergone an extensive exterior restoration and several minor partial interior renovations since. In 1994, the team recorded the structure with greater precision using more accurate field techniques and up-to-date standards to show the structure as it presently stands. The drawings for the Masonic Hall and Brackett House also, for the first time, show present existing building conditions. Both the Masonic Hall and Brackett House have undergone various degrees of restoration and preservation in the past. The Brackett House was originally constructed as one of two armory clerks’ houses in 1856, and was transferred to Storer College in 1869 and was lived in and named after the principal of the college -- Rev. Nathan Brackett. The Masonic Hall was constructed by Philip Coons for rental as two shops and a

residence. The third floor was finished off as a Masonic Lodge hall for Charity Lodge #111, F.A.A.M. The ceiling rafters of the hall are unique to the area in that they were made from recycled parts of nineteenth-century, Shenandoah Canal gondola parts.

These drawings will be used as baseline information for the future restoration, preservation and interpretation of the three buildings. The buildings were photographed by Jack Boucher as part of the project. The Paymaster’s Quarters and the Masonic Hall were photographed in the late 1950s and were re-photographed to reflect the changes that have occurred since.

JEFFERSON MEMORIAL

Washington, D.C.

(Multi-year project)

Project Leader:

Paul D. Dolinsky, Chief, HABS

Cosponsors:

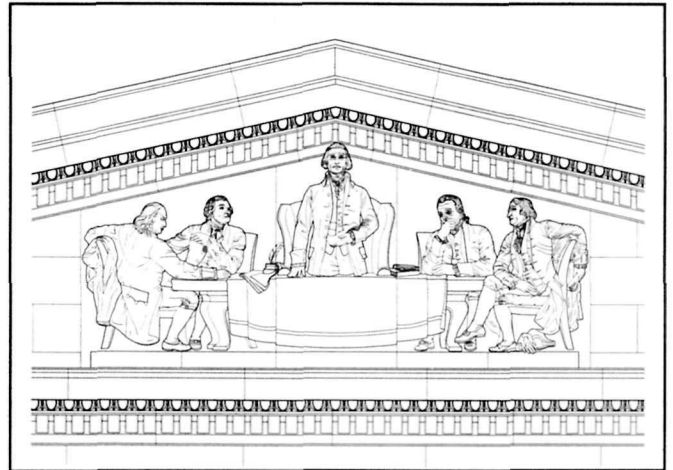
National Park Service, Denver Service Center Eastern Team (Falls Church)
National Park Service, National Capitol Region
National Park Service, National Capitol Parks-Central

Team Members:

Mark Schara, HABS Architect, Project Supervisor
Robert R. Arzola, HABS Architect
Dana Lockett, HABS Architect
J. Raul Vazquez, HABS Architect
Jack E. Boucher, HABS Photographer
Aaron V. Wunsch, Historian, University of Virginia

September 1994 brought the completion of the Jefferson Memorial project, begun in June 1991. An innovative system of scaffolding was erected at the memorial during the spring of 1994 to allow the HABS recording team complete access to all surfaces of the interior dome, the portico ceiling and vault, and the entrance pediment. Photogrammetry was used to document the pediment sculpture.

The completion of this project brought to a close the inaugural project of the HABS/HAER Computer-aided Drafting (CAD)/Photogrammetry Laboratory to record both the Lincoln and Jefferson Memorials. Eleven architects and architecture technicians worked on the project over the four-year period. The CAD files are being used heavily for the multi-year, comprehensive restoration project currently underway at both memorials. The CAD and photogrammetry skills developed by team members have proven an invaluable resource for both HABS/HAER and the National Park Service.



Pediment Sculpture, Jefferson Memorial, Washington, District of Columbia (HABS No. DC-4, portion of Sheet 21 of 25). Delineators: Robert R. Arzola, Dana Lockett and Mark Schara - 1994.

LOWELL OBSERVATORY

Project Leaders:

Joseph D. Balachowski, HABS Architect
Catherine C. Lavoie, HABS Historian

Cosponsors:

Arizona State Preservation Office
Lowell Observatory

Team Members:

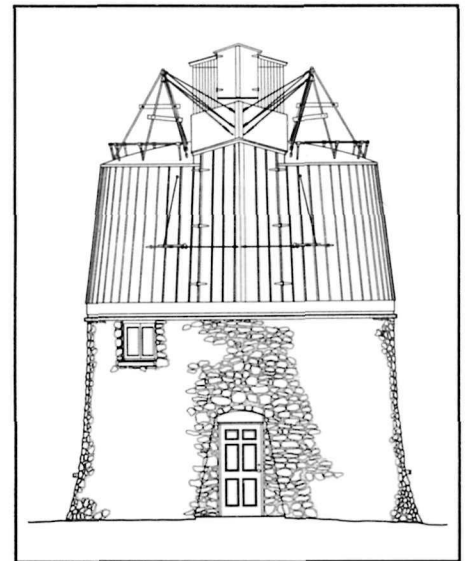
Margaret A. Ross, Architect, Project Supervisor, Southern California Institute of Architecture
Thomas W. Hetrick, Architecture Technician, Virginia Tech University
Christina V. Radu, Architect, Direction of Historic Monuments, Ensembles and Sites [ICOMOS] Romania
Rebecca Jacobsen, Sally Kress Tompkins Fellowship Historian, St. Cloud State University
Schaeffer E. Somers, Architect, University of Virginia

During the 100th anniversary of the founding of Flagstaff, Arizona, and of the establishment of Lowell Observatory, a HABS recording team prepared drawings and photographs of Lowell Observatory's Slipper (Administration) Building, two of the telescope buildings (Pluto Dome and the Clark Telescope Building), and the grounds. In addition, the team historian produced building descriptions and compiled a bibliography of architectural and technical drawings and materials.

The Slipper Building exemplifies a regional rustic style incorporating locally popular materials such as timber framing, shingles and volcanic stone. The two-story structure blends in with surrounding rock outcroppings and coniferous forest, but dominates the hill-side site because of its size and massive appearance. Its most distinguishing feature is the rotunda on the facade, formerly used as a library, now used for lectures and receptions. The Slipper Building also contains offices, an archive of astronomical photographs on glass plates and a guest apartment.

The two telescope buildings are wood framed structures uniquely fabricated into domes in the form of inverted buckets. The original telescopes, as well as the rotation and opening systems are still in place and utilized today. In spite of the

Flagstaff, Arizona



Elevation, Lowell Observatory, Pluto Dome (HABS No. AZ-206-C, portion of Sheet 3 of 5). Delineator: Thomas W. Hetrick - 1994.

growth of nearby Flagstaff, the air is remarkably clear, so that Lowell Observatory still hosts an active research program for professional, student and amateur astronomers. The observatory is also designated a National Historic Landmark.

MANZANAR WAR RELOCATION CENTER

**Manzanar National Historic Site
Independence, California**

Project Leaders:

Joseph D. Balachowski, HABS Architect
Catherine C. Lavoie, HABS Historian

Cosponsors:

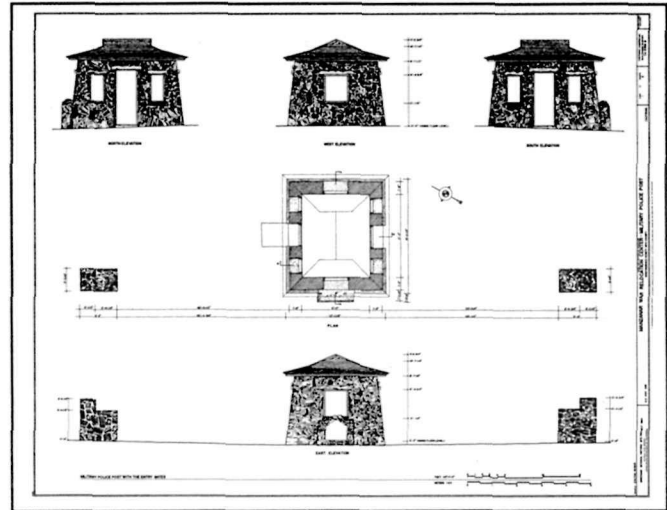
National Park Service, Western Regional Office
National Park Service, Death Valley National Monument

Team Members:

Elizabeth I. Loudon, Architect, Professor, Texas Tech University
Christopher S. Dwyer, Architecture Technician,
The Catholic University of America
Michael J. Kelleher, Historian, New York University
Anthony D. Nash, Architecture Technician, Iowa State University
Zoltan Sugar, Architect, Technical University of Budapest
[ICOMOS] Hungary

Following the attack on Pearl Harbor, December 7, 1941, a number of governmental, military and private agencies and interests organized the internment (without trial) of more than 100,000 Japanese-Americans -- primarily American citizens living on the west coast. Individuals and families were relocated to camps, often in desolate areas many miles away, and their goods and property often confiscated or sold.

Manzanar is located in the middle of California's Owens Valley, within 20 miles of Mt. Whitney and less than 100 miles from Death Valley National Monument, from where the site is currently administered. Although only three original camp structures remain -- the auditorium and two police and sentry posts -- ample evidence of irrigation,



Plan and Elevations, Manzanar War Relocation Center, Military Police Post, Independence vicinity, Inyo County, California (HABS No. CA-2399-B, Sheet 1 of 2). Delineator: Zoltan Sugar - 1994.

farming, livestock raising and ornamental gardening remains. During the Summer of 1994, a HABS recording team completed drawings and photography of the three buildings, a reservoir and other site features, as well as, a construction history of Manzanar War Relocation Center. This documentation will be used by the National Park Service for the interpretation and maintenance of the site.

**BALCONY HOUSE, MESA VERDE NATIONAL PARK /
SQUARE TOWER COMPLEX, HOVENWEEP NATIONAL MONUMENT**

**Colorado /
Utah**

Multi-year Project)

Project Leader:

Joseph D. Balachowski, HABS Architect

Cosponsors:

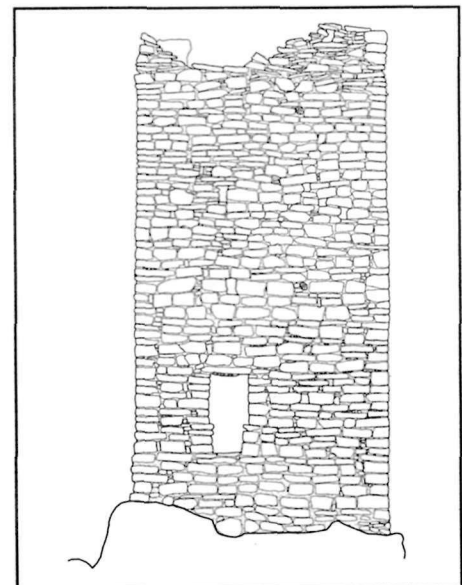
National Park Service, Rocky Mountain Regional Office
National Park Service, Mesa Verde National Park
National Park Service, Hovenweep National Monument

Team Members:

Stacie J. Broadwater, Architecture Technician, Pratt Institute
Leslie A. Schwab, Architect, University of Wisconsin-Milwaukee

In 1993, HABS began recording the existing conditions of Mesa Verde's ancient cliff structures to provide baseline data for stabilization and restoration work to be performed by the National Park Service stabilization crew under the leadership of Kathleen Fiero, Park Archaeologist. Because of the fragile nature of original construction and continuous erosion, monitoring these sites is an ongoing concern.

▷ *South Elevation, Square Tower, Aneth vicinity, San Juan County, Utah (HABS No. UT-132, portion of Sheet 2 of 2). Delineator: Leslie A. Schwab - Hovenweep Project, 1994.*



The irregular nature of the structures posed special challenges in recording. For this reason, Linhoff Metrika 150mm and 90mm photogrammetric cameras were used to record exterior walls. Field notes for plans and sections were obtained through surveying and hand-measuring, and existing notes, drawings and photographs in park files were copied for future reference.

SOUTHEASTERN PENNSYLVANIA

Project Leaders:

Catherine C. Lavoie, HABS Historian
Frederick J. Lindstrom, HABS Architect

Cosponsors:

Hon. Marjorie Margolies-Mezvinsky, U.S. House of Representatives,
Pennsylvania, District 13
National Park Service, Valley Forge National Historical Park
Montgomery County Conservancy

Team Members:

William M. Wright, Historian, Project Supervisor, Duke University
Janet J. Blutstein, Historian, University of Maryland
Jack E. Boucher, HABS Photographer
Joseph E.B. Elliott, Photographer
Thomas P. Heard, Historian, Indiana University of Pennsylvania
James W. Scott, Photographer

HABS recording activities in Southeastern Pennsylvania during 1994 were Congressionally mandated and coordinated with the office of Congresswoman Marjorie Margolies-Mezvinsky of Pennsylvania's Thirteenth District. The inventory project produced histories and large-format photographs of 80 structures throughout Montgomery County. Three historians working with three architectural photographers recorded structures related to transportation

TIMBERLINE LODGE

Project Leader:

Sara Amy Leach, HABS Historian

Cosponsor:

U.S. Forest Service

Team Members:

Eleanor A. Fulton, Historian, University of Wisconsin
Marvin Rand, Photographer

Located on Mount Hood, east of Portland, Oregon, Timberline is the only U.S. resort boasting year-round skiing. The resort also boasts its magnificent ski lodge perched at the 6,000 foot tree-line. Built by the Civilian Conservation Corps in 1937-38 for the U.S. Forest Service, Timberline was designated a National Historic Landmark on its architectural merit in 1977. A massive four-story stone chimney dominates the headhouse, supported by massive timbers with hand-wrought hardware, and flanked by two

During this second year of the project, drawings were generated in the HABS/HAER Computer-aided Drafting (CAD)/Photogrammetry Laboratory. Photogrammetric images were digitized into AutoCAD software to produce the elevations, while plans and sections were produced by combining CAD and traditional ink-on-mylar techniques.

Valley Forge, Pennsylvania



Elevation, *The Egyptian Theater*, Cynwyd, Montgomery County, Pennsylvania (HABS No. PA-6040-3). Photographer: Joseph E.B. Elliott - Southeastern Pennsylvania Project, 1994.

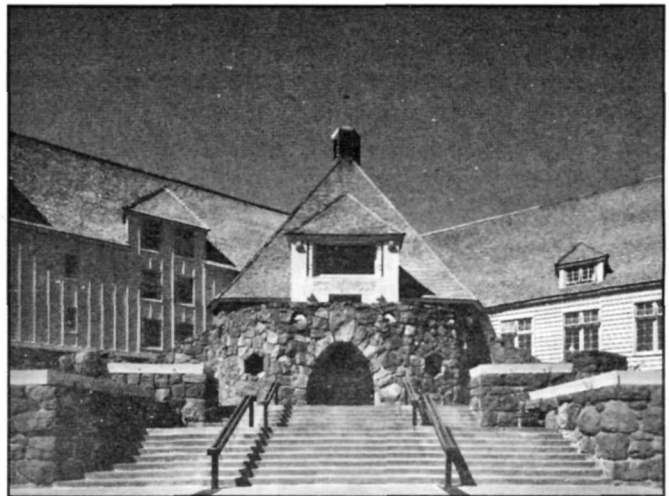
and suburban styles during the eighteenth and twentieth centuries. The project culminated in a large exhibition of Summer 1994 documentation (see p. 22 *Montgomery County, Pennsylvania Exhibit*).

Mt. Hood National Forest Gresham, Oregon



General view of front south front, *Timberline Lodge*, Government Camp Vicinity, Clackamas County, Oregon (HABS No. OR-161-4). Photographer: Marvin Rand - 1994.

wings. Inside and out, it is a hand-crafted model of rustic "Cascadian" design from the hand-hewn animal-topped newel posts, to mosaics of native animals, hand-woven textiles, and watercolors that decorate the rooms. A distinctive difference between Timberline Lodge and similar inns of the National Park Service such as Old Faithful Inn in Yellowstone and the Ahwahnee in Yosemite, is that the massive timbers were hewn at Timberline while logs were used in the other inns. Each subtly reflects the mission of the respective agencies, the management of forest resources and the associated forest products industries in the more finished wooden structure at Timberline and the protection of natural resources in the more rustic log construction at Old Faithful Inn and the Ahwahnee. In excellent condition today, the Timberline Lodge has had only one significant addition -- a modern east wing extension (shown on original plans). In 1994, a HABS recording team prepared a physical description and history of the lodge and comprehensive photography of this complex building.



Head House Entrance, *Timberline Lodge*, Government Camp Vicinity, Clackamas County, Oregon (HABS No. OR-161-6). Photographer: Marvin Rand - 1994.

VIETNAM VETERANS MEMORIAL

Project Leaders:

Joseph D. Balachowski, HABS Architect
Mark Schara, HABS Architect

Cosponsors:

National Park Service, National Capital Region
National Park Service, National Capital Parks-Central
Vietnam Veterans Memorial Fund

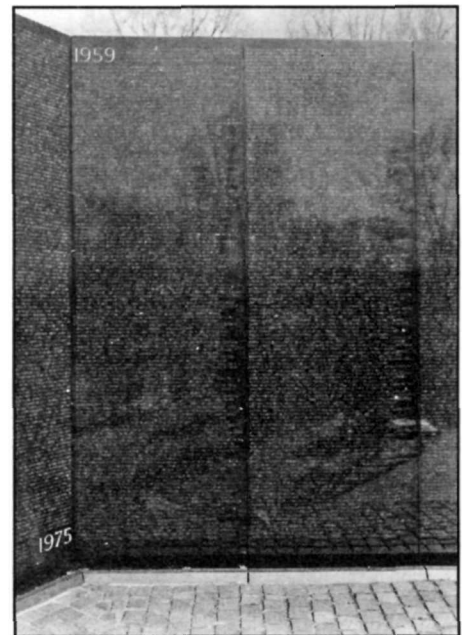
Team Members:

Robert R. Arzola, HABS Architect
Dana Lockett, HABS Architect
J. Raul Vazquez, HABS Architect
Jack E. Boucher, HABS Photographer

The design of the Vietnam Veterans Memorial was the result of an open competition held in 1981, which attracted 1,421 entries. The winner was Maya Ying Lin, then a 21-year old student at the Yale University School of Architecture. Her design consists of two long, sunken, triangular, walls of reflective black granite, on which are inscribed the names of the over 58,000 Americans who died or who remain missing from the war. Austere and contemplative, yet moving and evocative, Lin's design is recognized as one of the most significant American structures of the 1980s, and has become the most visited memorial in the nation's capital.

Despite its relative newness, the national significance of the Vietnam Veterans Memorial easily justifies its inclusion in the HABS collection. Although only twelve years have passed since its dedication on Veterans Day, 1982, the memorial is already showing signs of damage and deterioration, due to both its exposed position and its large number of visitors. It is anticipated that the HABS drawings, which are being prepared using computer-aided drafting (CAD), will prove to be an invaluable tool for the structure's future restoration and long-term maintenance needs. In addition to measured drawings, the

Washington, D.C.



Elevation of Panels, *Vietnam Veterans Memorial*, Washington, District of Columbia (HABS No. DC-805). Photographer: Jack E. Boucher - 1994.

documentation project includes large-format photographs of each panel, showing the names and dedicatory inscriptions.

WASHINGTON MONUMENT

(Multi-year project)

Project Leaders:

Joseph D. Balachowski, HABS Architect
 Catherine C. Lavoie, HABS Historian

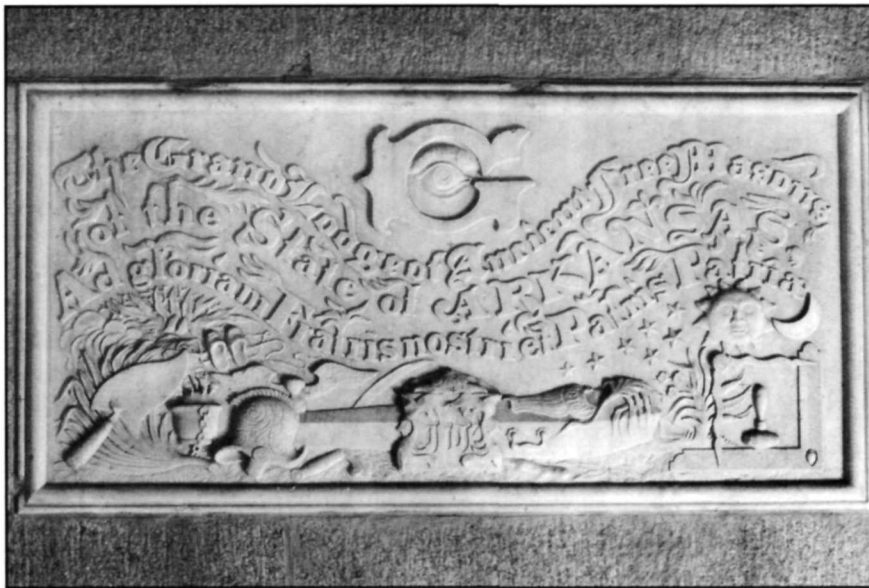
Cosponsors:

National Park Service, National Capital Region
 National Park Service, National Capitol Parks-Central

Team Members:

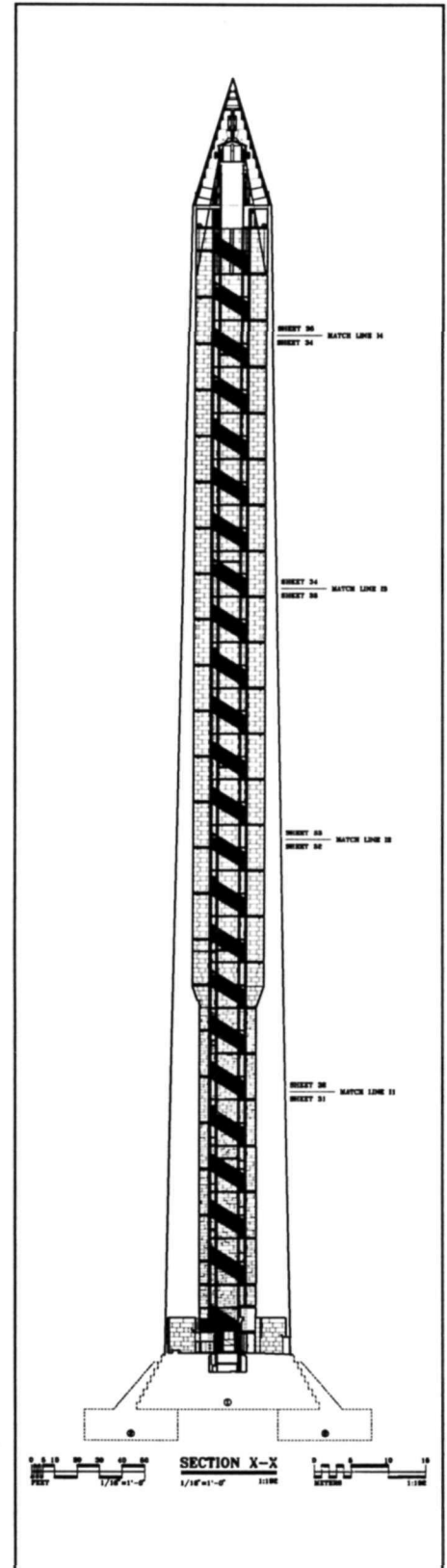
Mark Schara, HABS Architect, Project Supervisor
 Robert R. Arzola, HABS Architect
 Dana Lockett, HABS Architect
 J. Raul Vazquez, HABS Architect
 Jack E. Boucher, HABS Photographer
 Aaron V. Wunsch, Historian, University of Virginia

May 1994 brought the completion of the Washington Monument HABS recording activities, begun in August 1993. Elevations of the monument were photographed in sections from a Park Police helicopter in September 1993 and were subsequently digitized and assembled. Deftly working around the hundreds of tourists who visit the structure each day, and with the invaluable cooperation and assistance of the National Capital Parks-Central rangers, the HABS recording team was able to produce a set of thirty-seven computer-aided drafted (CAD) drawings including: two site plans, six floor plans, four exterior elevations, four interior elevations, one full section, and two partial sections of the 555-foot tall structure. Photographic documentation included exterior views, views of the important interior spaces, and photographs of many of the memorial stones that line the interior shaft. During Summer 1994, a historical report was also compiled, which included an annotated bibliography of the extensive collection of original documents and drawings at the National Archives relating to the Washington Monument's construction and subsequent alterations.



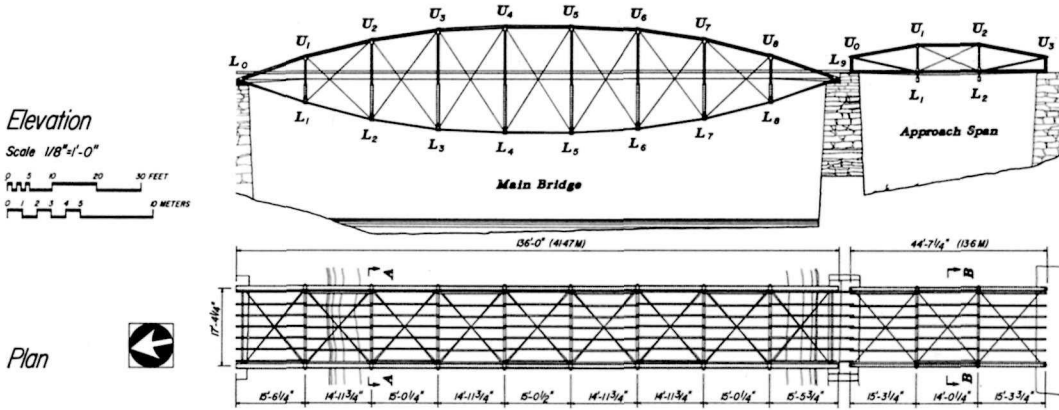
△ Memorial Stone of the Grand Lodge of Ancient Free Masons of the State of Arkansas, Washington Monument, Washington, District of Columbia (HABS No. DC-428). Photographer: Mark Schara - 1994. ▸ Section X-X, Washington Monument (HABS No. DC-428, portion of Sheet 31 of 37). Delineators: Robert R. Arzola, Dana Lockett, Mark Schara, and J. Raul Vazquez - 1994.

Washington, D.C.



OLD CORINTH ROAD BRIDGE • 1885

HADLEY, NEW YORK



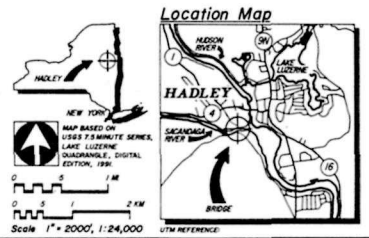
The Old Corinth Road Bridge is distinguished by the unusual positioning of its "half-through or semi-deck" in relation to the main truss spans, and its dramatic setting in a gorge of the Sacandaga River as it debouches into the Hudson. The bridge is based on an 1878 patent for a lenticular or parabolic truss, granted to William O. Douglas, a West Point-educated engineer, and fabricated by the East Berlin Iron Bridge Company of East Berlin, Connecticut.

While the Berlin Iron Bridge Company was typical of bridge fabricators that dominated bridge building in the last quarter of the 19th century, it was unique in the success of marketing an unusual parabolic design while the industry was moving rapidly to standardized parallel-chord configurations.

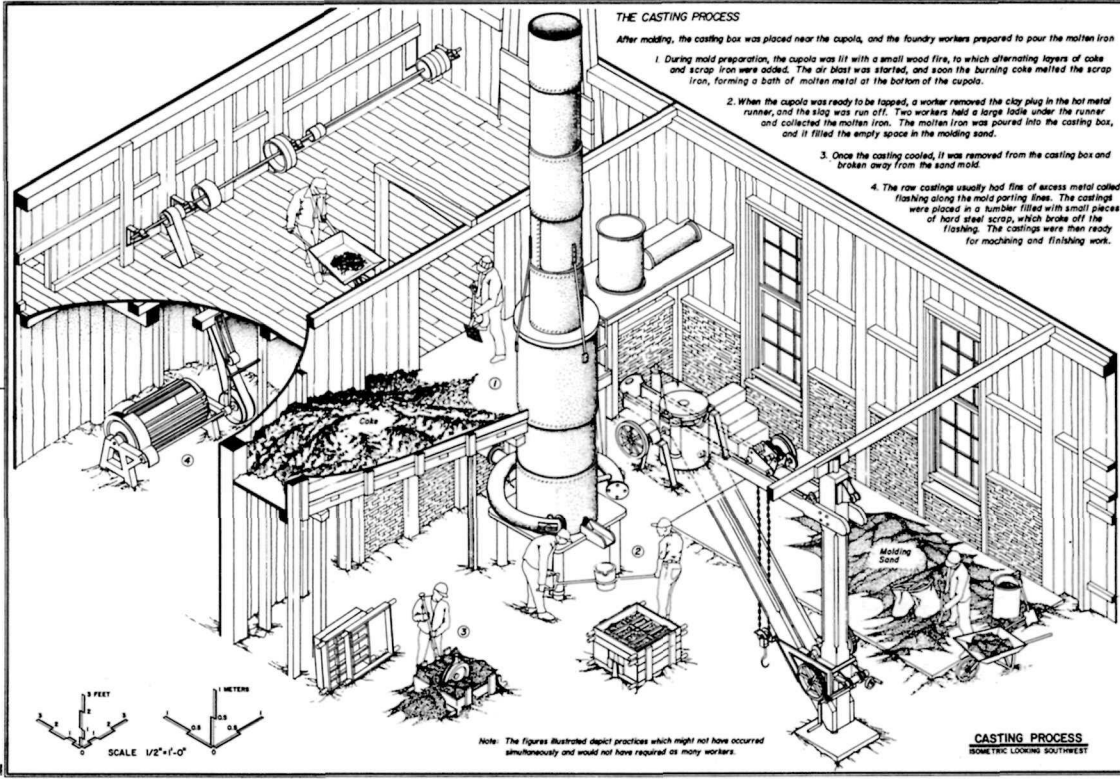
This recording project is part of the Historic American Engineering Record (HAER), a long-range program to document historically significant engineering, industrial, and maritime sites in the United States. HAER is administered by the National Park Service, US Department of the Interior. The Cast & Wrought-Iron

Bridges (New York) Recording Project was cosponsored by HAER during the summer of 1994 under the general direction of Dr. Robert J. Kapsch, Chief, HASB/HAER, the New York State Department of Transportation, Michael J. Cuddy, assistant commissioner & Chief Engineer, with the assistance of Mary Ivey, Environmental Section, NY DOT; the Office of New York State Parks, Recreation & Historic Preservation, J. Winthrop Aldrich, Deputy Commissioner; and the School of Architecture, Rensselaer Polytechnic Institute, Donald Watson, Dean.

The field work, measured drawings, historical reports, and photographs were prepared under the direction of Eric DeLony, HAER Chief and Project Leader; Karl Bodensiek, field supervisor; Caroline Schwyer, (ICOMOS-France), architect; Wang Bing (ICOMOS-Japan), architect; and William Chamberlin, PE, historian consultant. Large-format photography was done by Jet Lowe, HAER photographer. The project was edited in the Washington Office by Luis Rosario under the direction of Craig Strong HAER Sr Architect.

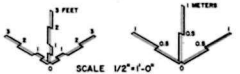


FEDERAL ARCHIVES AND RECORDS ADMINISTRATION
 NATIONAL ARCHIVES
 EAST BROAD TOP RAILROAD & COAL CO. FOUNDRY
 ROCK HILL FURNACE, HUNTINGDON COUNTY, PENNSYLVANIA
 HAER No. PA-127-D
 SHEET 4 OF 4
 NEW YORK STATE
 DEPARTMENT OF TRANSPORTATION
 HASB/HAER
 OLD CORINTH ROAD BRIDGE (1885)
 EAST BROAD TOP RAILROAD & COAL CO. FOUNDRY
 ROCK HILL FURNACE, HUNTINGDON COUNTY, PENNSYLVANIA
 HAER No. PA-127-D
 SHEET 4 OF 4



THE CASTING PROCESS

- After making, the casting box was placed near the cupola, and the foundry workers prepared to pour the molten iron
1. During mold preparation, the cupola was lit with a small wood fire, to which alternating layers of coke and scrap iron were added. The air blast was started, and soon the burning coke melted the scrap iron, forming a bath of molten metal at the bottom of the cupola.
 2. When the cupola was ready to be tapped, a worker removed the clay plug in the hot metal runner, and the slag was run off. Two workers held a large ladle under the runner, and collected the molten iron. The molten iron was poured into the casting box, and it filled the empty space in the molding sand.
 3. Once the casting cooled, it was removed from the casting box and broken away from the sand mold.
 4. The raw castings usually had fins of excess metal called flash along the mold parting line. The castings were placed in a tumbler filled with small pieces of hard steel scrap, which broke off the flash. The castings were then ready for machining and finishing work.



Note: The figures illustrated depict practices which might not have occurred simultaneously and would not have required as many workers.

CASTING PROCESS
ISOMETRIC VIEWING SOUTHWEST

FEDERAL ARCHIVES AND RECORDS ADMINISTRATION
 NATIONAL ARCHIVES
 EAST BROAD TOP RAILROAD & COAL CO. FOUNDRY
 ROCK HILL FURNACE, HUNTINGDON COUNTY, PENNSYLVANIA
 HAER No. PA-127-D
 SHEET 4 OF 4
 NEW YORK STATE
 DEPARTMENT OF TRANSPORTATION
 HASB/HAER
 OLD CORINTH ROAD BRIDGE (1885)
 EAST BROAD TOP RAILROAD & COAL CO. FOUNDRY
 ROCK HILL FURNACE, HUNTINGDON COUNTY, PENNSYLVANIA
 HAER No. PA-127-D
 SHEET 4 OF 4

(Top:) Elevation and Plan, Old Corinth Road Bridge, Hadley, Saratoga County, New York (HAER No. NY-292, Sheet 1 of 4). Delineators: Caroline C. Schwyer and Luis G. Rosario-Llueras - New York Cast and Wrought Iron Bridges Project, 1994 (see p. 45 for a project description). (Below:) Casting Process, East Broad Top Railroad & Coal Company, Foundry, Rock Hill Furnace, Huntingdon County, Pennsylvania (HAER No. PA-127-D, Sheet 4 of 4). Delineators: Robert L. Dixon, Isabel C. Yang, and Thomas M. Behrens - Southwestern Pennsylvania Project, 1994 (see p. 42 for a project description).

1994 HAER RECORDING PROJECTS

ACADIA NATIONAL PARK ROADS AND BRIDGES

(Multi-year Project)

Project Leader:

Todd A. Croteau, HAER Architect

Cosponsors:

National Park Service, Acadia National Park
National Park Service, North Atlantic Regional Office
National Park Service, Maintenance Division

Team Members:

Richard H. Quin, HAER Historian, Project Supervisor
Jeannette S. Barras, Architect
Kate E. Curtis, Architect, Leeds Metropolitan University
[ICOMOS] United Kingdom
David H. Haney, Architect, Yale University
Joseph G. Korzeniewski, Architecture Technician,
Virginia Tech University
Jet Lowe, HAER Photographer

The 1994 Acadia National Park Roads and Bridges recording project was part of a long-term program to document all historic roads, bridges, and road-related landscapes in the National Park Service system that are eligible for inclusion on the National Register. The first phase of the two-year recording effort focused on the carriage and motor roads of the park -- designed and built, beginning in 1917 and continuing through the 1950s, under the influences of John D. Rockefeller, Jr., Frederick Law Olmsted, Jr., Beatrix

COLUMBIA RIVER GORGE SCENIC HIGHWAY

(Multi-year Project)

Project Leader:

Eric N. DeLony, Chief, HAER

Cosponsor:

Oregon Department of Transportation, Region One

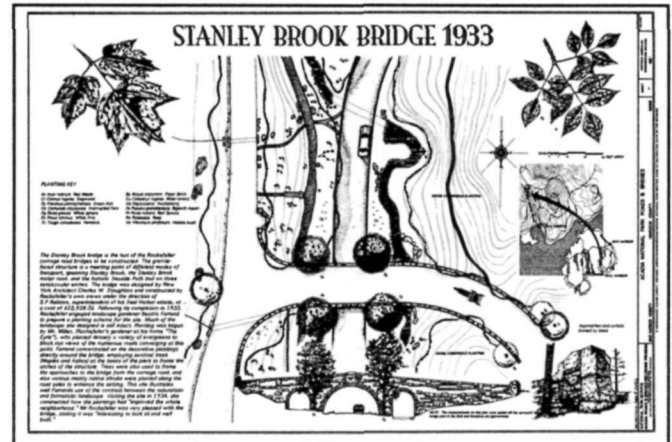
Team Members:

Robert W. Hadlow, Historian, Washington State University
Brian Grogan, Photographer

Claimed as the first scenic highway in the United States, Columbia River Gorge Scenic Highway boasts several fine examples of early twentieth-century reinforced concrete structures along its thirty-seven mile engineered system. Viaducts and bridges over Latourell Creek, Shepherd's Dell, and Moffett Creek were hailed by the engineering profession in the 1910s as outstanding for the many innovations used during construction. In addition, the highway incorporates three sections of loop roads, several miles of masonry retaining walls, three tunnels, and numerous automobile pull-offs to view the many scenic wonders of the Gorge.

Dr. Robert Hadlow, a veteran of three previous HAER projects, conducted the first phase literature, drawing, and historic photo search. A bibliography of primary and

Maine



Plan and Elevation, Stanley Brook Bridge, Bar Harbor vicinity, Hancock County, Maine (HAER No. ME-45). Delineator: Kate E. Curtis - Acadia National Park Roads & Bridges Project - 1994.

Farrand, and National Park Service and Bureau of Public Roads engineers. In the first phase of recording, documentation consisted of an overview history of the road systems and drawings of the Park's bridges. The second phase of recording will concentrate on road and bridge structure reports, drawings of road engineering/landscape features, and large-format photography.

Portland, Oregon



Roadway from east, Shepherd's Dell Bridge, Latourell vicinity, Multnomah County, Oregon (HAER No. OR-23-4). Photographer: Jet Lowe - 1990.

secondary sources, contacts, and a comprehensive photographic program were also products of efforts in 1994. A plan and scope-of-work for a full-fledged recording team in the Summer of 1995, pending funds from the Oregon Department of Transportation, will be forthcoming.

EAST BROAD TOP RAILROAD SHOPS

Rockhill Furnace, Pennsylvania

Project Leaders:

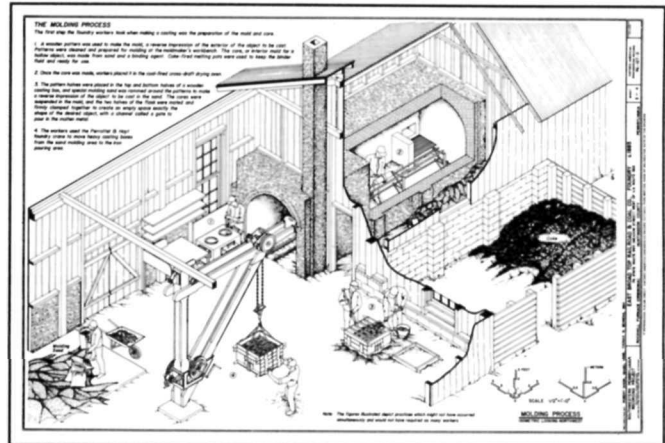
Richard O'Connor, HAER Historian
 Craig N. Strong, HAER Architect

Cosponsor:

America's Industrial Heritage Project

Team Members:

Isabel C. Yang, Architect, Project Supervisor
 Robert L. Dixon, Architecture Technician, The University of Arizona
 Matthew A. Kierstead, Historian, West Virginia University
 Andrei L. Pribega, Architect, Ukrainian Academy of Fine Arts,
 [ICOMOS] Ukraine
 Susan J. Ryan, Architecture Technician, Columbia University
 Ivelisse Santos, Architecture Technician, Pratt Institute
 Jack E. Boucher, HABS Photographer



Molding Process, East Broad Top Railroad & Coal Company, Foundry, Rockhill Furnace, Huntingdon County, Pennsylvania (HAER No. PA-127-D, Sheet 3 of 4). Delineators: Robert L. Dixon, Isabel C. Yang, and Thomas M. Behrens - Southwestern Pennsylvania Project - 1994.

The East Broad Top (EBT) Railroad and Coal Company, a National Historic Landmark, is the only surviving narrow-gauge steam railroad still in operation east of the Mississippi River. The EBT was originally chartered in 1856 for the purpose of extracting and transporting coal from the rich Broad Top Mountain Field. After years of complications, the EBT was formally organized in 1871. Critical to its success was an amended charter allowing for a connection to the main line of the Pennsylvania Railroad in Mt. Union. The railroad was opened to Rockhill Furnace, Pennsylvania, in 1873 using two Baldwin locomotives named for company Vice President E.D. Roberts and R.D. Wood, for whom the towns of Robertsdale and Woodvale would also be named.

In the early 1870s, the railroad built an extensive shop complex and engine house in Rockhill Furnace. HAER recorded the machine shop in 1989, documenting the overhead belt system, machines for general metal and woodworking, and specific machines used for railroad repair,

such as wheel presses and wheel and axle lathes. Five years later, HAER returned to the EBT shop complex, documenting with measured drawings, large-format photography and written history the roundhouse, turntable, blacksmith shop and foundry. Although the team received extensive cooperation from the EBT Railroad, and particularly from Stan Hall, the operations manager, primary documentation in the form of engineering drawings and company records was not available; consequently, all structures and equipment were hand-measured, and information on the operation and history was painstakingly gleaned from trade catalogs, oral histories, and other archival sources.

GRAND CANYON NATIONAL PARK ROADS AND BRIDGES

Arizona

Project Leader:

Todd A. Croteau, HAER Architect

Cosponsors:

National Park Service, Grand Canyon National Park
 National Park Service, Rocky Mountain Regional Office
 National Park Service, Maintenance Division

Team Members:

Michael F. Anderson, Historian, Arizona State University
 Brian Grogan, Photographer

The Grand Canyon National Park Roads and Bridges recording project was a continuation of HAER recording efforts in the National Parks of the southwestern portion of the United States. This project included documentation of approach roads, rim roads, and scenic drives that allow visitor access to one of the world's great natural wonders.



Dead Indian Canyon Bridge, Cameron vicinity, Coconino County, Arizona (HAER No. AZ-46). Photographer: Todd A. Croteau - 1994.

MESA VERDE NATIONAL PARK ROADS AND BRIDGES

Colorado

Project Leader:

Todd A. Croteau, HAER Architect

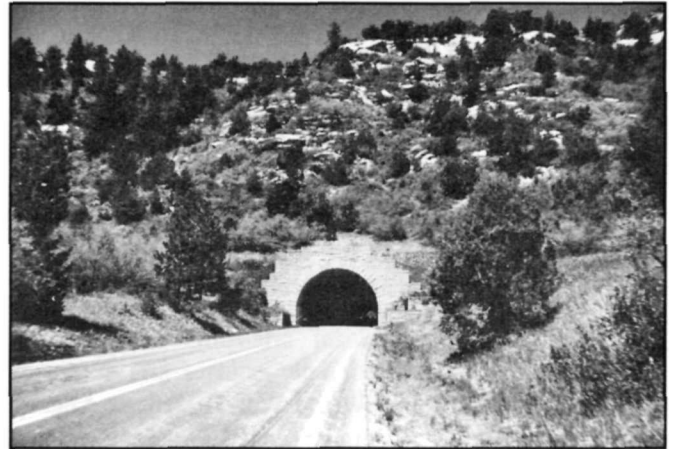
Cosponsors:

National Park Service, Mesa Verde National Park
 National Park Service, Rocky Mountain Regional Office
 National Park Service, Maintenance Division

Team Members:

Tonia W. Horton, Historian, University of Virginia
 Brian Grogan, Photographer

The Mesa Verde National Park Roads and Bridges recording project was a continuation of HAER's efforts to record significant engineering aspects of the National Parks of the southwestern United States. Mesa Verde's road system includes many culverts and road features built by the Civilian Conservation Corps during the 1930s and a tunnel with stone-masonry portals that incorporate landscaped terraces. The road system evolved over several distinct periods, and parts of its earliest sections (e.g. the Knife Edge) are



Morefield Canyon Tunnel, Mesa Verde National Park, Montezuma County, Colorado (HAER No. CO-80). Photographer: Todd A. Croteau - 1994.

representative of early park travel and the adventures it offered motorists.

MONONGAHELA RIVER NAVIGATION PROJECT

Homestead, Pennsylvania

Project Leader:

Dean A. Herrin, HAER Historian

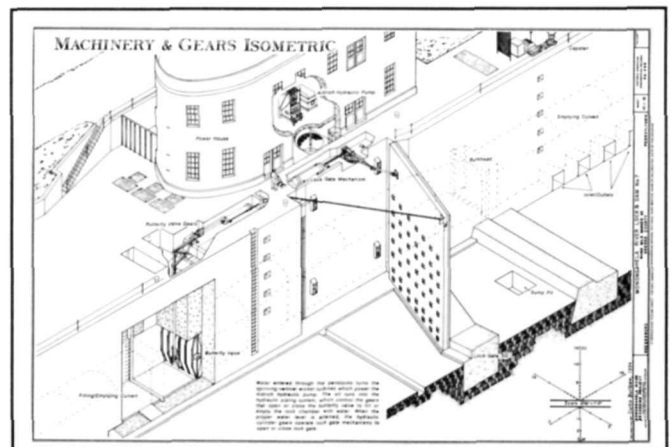
Cosponsor:

U.S. Army Corps of Engineers, Pittsburgh District

Team Members:

Christopher H. Marston, HAER Architect, Project Supervisor
 Curtis G. Burlbaw, Architecture Technician, Texas Tech University
 James R. Christensen, Architect, University of Idaho
 Jonathan Gill, Architect, Ironbridge Institute [ICOMOS] United Kingdom
 Kim E. Wallace, Video Coordination, HAER Historian
 Christine Jones, Video Production, Institute for the History of Technology and Industrial Archeology, West Virginia University
 Jet Lowe, HAER Photographer

During the Summer of 1994, the Mon River recording team recorded several structures for the Army Corps of Engineers, Pittsburgh District. The most important was Lock and Dam No. 7, near Greensboro, Pennsylvania. The lock and dam is the only federally-built lock and dam on the Monongahela River, constructed between 1879 and 1935, that retains its original configuration and machinery. In addition, as the last remaining structure of its generation, it is significant in representing the history of the development of the Monongahela River navigation system, the work of the Corps of Engineers in the evolution of this system, and early twentieth century engineering methods and technology of slackwater navigation facilities. The HAER team assisted in the



Machinery & Gears Isometric, Monongahela River Lock & Dam No. 7, Greensboro, Greene County, Pennsylvania (HAER No. PA-299, Sheet 10 of 12). Delineator: Curtis G. Burlbaw - 1994.

production of a 30-minute, public television-quality video entitled *River Mile 85, Mon Lock 7* highlighting the technology of the lock and dam, and the relationship between technology and work at the site. Besides Lock and Dam No. 7, HAER recorded the Conrail Port Perry Bridge at Braddock and a selection of publicly-owned facilities on the river, such as drainage systems and launching ramps.

MONONGAHELA VALLEY WORLD WAR II DEFENSE LEGACY

Homestead, Pennsylvania

Project Leader:

Dean A. Herrin, HAER Historian

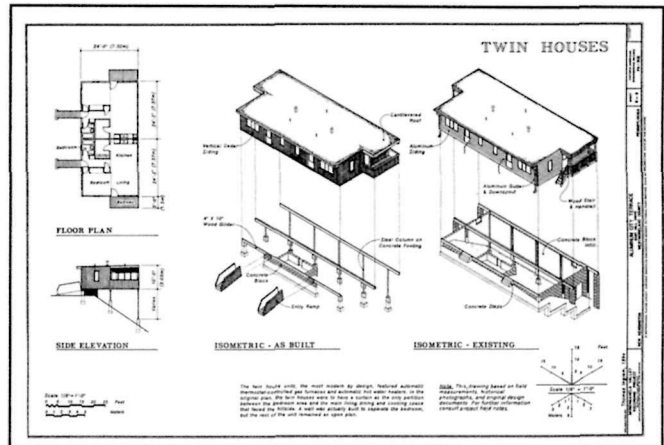
Cosponsor:

Department of Defense, Legacy Resources Management Program

Team Members:

Joel Sabadasz, HAER Historian, Project Supervisor
 Jennifer K. Bannister, Historian, West Virginia University
 Sean T. Blaire, Architecture Technician,
 California Polytechnical University, San Louis Obispo
 Thomas L. Ingram, Architecture Technician, University of Virginia
 Sandra G. Price, Architect, Arizona State University
 Jet Lowe, HAER Photographer

The Monongahela Valley World War II Defense Legacy team documented federally-funded, defense-related industrial plant and housing expansion in the Pittsburgh region during World War II. Specifically, the team produced in-depth documentation focusing on the war-time industrial plant and housing resources associated with the Mesta Machine Company at West Homestead (including the Mesta-built 160" plate mill at the former U.S.S. Homestead Works) and the Aluminum Company of America (ALCOA) at New Kensington (including Aluminum City Terrace, a housing project designed by Walter Gropius and Marcel Breuer). The team also



Twin Houses, Aluminum City Terrace, New Kensington, Westmoreland County, Pennsylvania (HAER No. PA-302, Sheet 8 of 9). Delineator: Thomas L. Ingram - Monongahela Valley Project, 1994.

prepared an overview history of a four-county area (Allegheny, Beaver, Washington, and Westmoreland), that focuses on the development of war-related production and housing expansion through the interplay of public, private, and technological forces.

MUSCLE SHOALS/TENNESSEE VALLEY AUTHORITY

Muscle Shoals, Alabama

Project Leaders:

Richard O'Connor, HAER Historian
 Craig N. Strong, HAER Architect

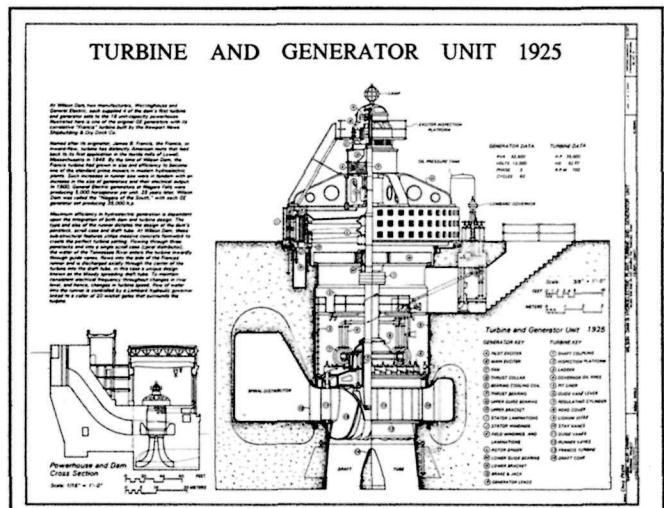
Cosponsor:

Tennessee Valley Authority, Division of Cultural Resources
 University of North Alabama Foundation

Team Members:

Thomas M. Behrens, HAER Architect, Project Supervisor
 Brian F. Coffey, Historian, University of Massachusetts
 Kathryn M. Kasperek, Architecture Technician,
 Miami University of Ohio
 Balazs Krikovszky, Architect, Technical University of Budapest
 [ICOMOS] Hungary
 Susie B. Leong, Illustrator, University of Michigan
 Agathe Lesage, Architect, Aeroport Charles de Gaulle [ICOMOS] France
 Christopher J. Payne, Architect, University of Pennsylvania
 Sergio Sanchez, Architecture Technician, University of Illinois
 Jet Lowe, HAER Photographer

The Tennessee Valley Authority (TVA) reservation at Muscle Shoals, Alabama is the site of important technological and engineering innovations in the production of nitrates and phosphates for defense and domestic applications, as well as one of the largest dams



Section, Wilson Dam & Hydroelectric Plant, Turbine and Generator Unit, Muscle Shoals, Colbert County, Alabama (HAER No. AL-47-A, Sheet 1 of 1). Delineator: Chris J. Payne - Tennessee Valley Authority Project, 1994.

and hydroelectric power generating stations in the TVA system.

During World War I, the German Navy threatened the United States Government with the potential loss of its supply of Chilean nitrates, the prime source of nitric acid so essential in the production of explosives. Without a reliable substitute, the War Department constructed two chemical plants, U.S. Nitrate Plant (U.S.N.P.) No. 1 and U.S.N.P. No. 2, to produce ammonium nitrate, both at Muscle Shoals. During the ensuing decade, U.S.N.P. No. 2 was converted to the peacetime production of nitrogen-compound fertilizers. As World War II approached, the facility, which had become part of the TVA in the 1930s, was converted once again to defense-related production of chemicals. It is unique as one of the earliest government-sponsored chemical sites and as the site where chemical engineers worked through many of the problems involved in translating successful laboratory processes into industrial production. During the Summer of 1994, the HAER recording team documented the manufacture of calcium carbide, cyanamide, and explosives, as well as the process of nitrogen fixation. Drawings focused on the unique design of electric furnaces nitrogen ovens, autoclaves,

and the catalyzers and absorption towers used in ammonia production. Historian Brian F. Coffey examined the development of large-scale nitrogen fixation processes and the construction of the U.S. government's first chemical plant.

Wilson Dam, constructed in conjunction with U.S.N.P. No. 2 to provide power for the chemical processes, was completed in 1926 and incorporated into the TVA system in the 1930s. Although much of its equipment has been replaced or modified, several components of the original hydro-electric system remain intact, and were recorded by HAER: the Oilostatic insulation system, the house generator and turbine, and the last remaining tri-level breaker.

The team's work was featured in a close-out presentation August 24, 1994, at the Main Auditorium of the Environmental Research Center, Muscle Shoals Reservation. HAER documentation was presented in cooperation with the Tennessee Valley Authority.

NEW YORK CAST AND WROUGHT IRON BRIDGES

(Multi-Year Project)

Project Leader:

Eric N. DeLony, Chief, HAER

Cosponsors:

New York State Department of Transportation
New York State Office of Parks, Recreation & Historic Preservation
Rensselaer Polytechnic Institute, School of Architecture

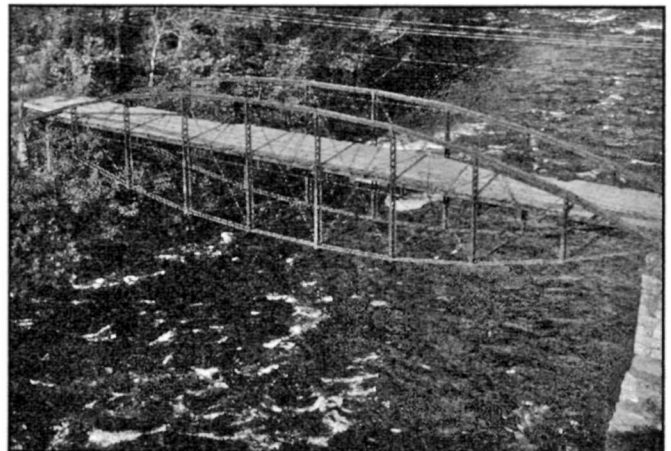
Team Members:

Karl N. Bodensiek, Architectural Supervisor, Roger Williams University
Wang Bing, Architect, Tokyo University of Fine Arts, [ICOMOS] China
Caroline C. Schwyer, Architect, Columbia University [ICOMOS] France
Jet Lowe, HAER Photographer

In the fourth year of a multi-year program to document seventy surviving cast and wrought iron bridges in the United States. HAER began the first of two years recording the estimated eighteen cast and wrought iron bridges remaining in New York State. Despite the loss of hundreds of historic bridges every year, documentation developed by HAER will insure that a permanent record of these structures is available in the national collection at the Library of Congress and will encourage the preservation of these bridges. HAER documentation serves to stimulate public appreciation of these structures and often leads to their preservation. During the three previous summers, HAER teams documented bridges in Pennsylvania and Ohio.

Summer recording activities included measuring and drawing six bridges, preparing reports on three, and

Albany, New York



Corinth Road Bridge, Hadley, Saratoga County, New York (HAER No. Ny-292-3). Photographer: Jet Lowe - New York Cast & Wrought Iron Bridges Project - 1994.

photographing sixteen. Bridges recorded included: former Mill Road Bridge -- now part of a pedestrian footpath, relocated from Parish, Oswego County, to Schenectady's Central Park; Old Corinth Road Bridge -- a "semi-deck" lenticular built by the Berlin Iron Bridge Company (East Berlin, Connecticut), located in Hadley, Saratoga County; Watkins Glen Iron Foot-Bridge -- a pedestrian park bridge based on patents granted to John Foreman, Master Carpenter for the Reading Railroad at their Pottstown shops in Pennsylvania; Cooper's Patented

Tubular Arch Bridge -- an early bowstring relocated to a rewatered section of the Erie Canal in Cedar Bay State Park, Jamesville, Onondaga County, that used Phoenix columns as the upper chord; Chili Mills Bridge -- a King Iron Bridge Company (Cleveland, Ohio) catalog bridge that used a curved I-beam for the upper chord, located in Monroe County; and Avery-Bartholomew Patent Railroad Iron Bridge -- a rare example of a bridge that used a bent railroad rail as the upper chord and deck beams fabricated by the Groton Iron Bridge Company and located in Groton, Thompkins County.

NAVAL BASE PHILADELPHIA AND SHIPYARD

Project Leaders:

Dean A. Herrin, HAER Historian
 Craig N. Strong, HAER Architect

Cosponsor:

Naval Base Philadelphia

Team Members:

Robert C. Stewart, Historical Archaeologist,
 Central Connecticut State University
 Jet Lowe, HAER Photographer

Naval Base Philadelphia and Shipyard, slated for closure, has been one of the most prominent shipyards in America's defense history. During the Summer of 1994, HAER recording team members focussed on the engineering history of the yard and the facilities related to the construction and repair of ships. Particularly significant are the five drydocks that date from 1886 to 1942, and an enormous hammerhead crane, which was the largest in the world when first built in 1919. Prepared were an overview history and reports on specific features, as well as large-format photographs of most of the base and shipyard. In the future, drawings will be produced

STOCKHAM FOUNDRY

Project Leaders:

Richard O'Connor, HAER Historian
 Craig N. Strong, HAER Architect

Cosponsors:

Birmingham Historical Society
 Stockham Valve & Fittings Co.

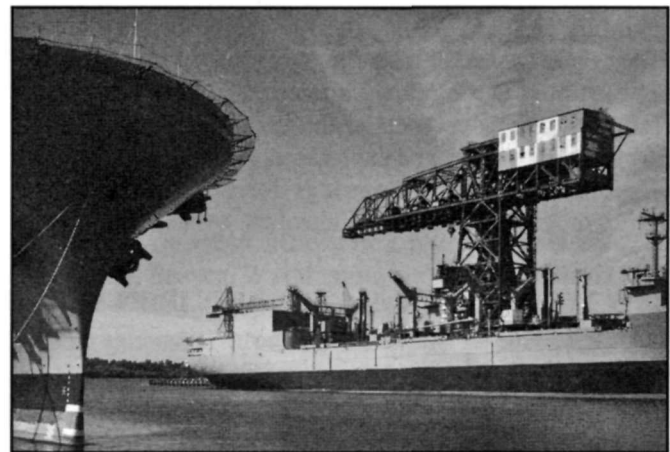
Team Members:

Erin E. Christman, Architect, Project Supervisor, Tulane University
 Susan A. Begley, Architecture Technician, Art Institute of Chicago
 Bode J. Morin, Historian, Michigan Tech University
 Krisitin A. Peterson, Architect, University of Texas
 Paul Song, Architecture Technician, Syracuse University
 Qizhi Tu, Architect, Louisiana State University [ICOMOS] China
 Jet Lowe, HAER Photographer

▷ Title Sheet, *Stockham Pipe and Fittings Co.*, (HAER No. AL-49, Sheet 1 of 9). Delineator: Paul Song - Birmingham District Recording Project, 1994.

A field office for the recording team was made available in the Green Building at the School of Architecture, Rensselaer Polytechnic Institute, where HAER conducted its first pilot project in 1969. Bill Chamberlin, PE, New York Department of Transportation (retired), consulted with the team and wrote-up several bridge reports. Dr. Francis E. Griggs, PE, Professor of Civil Engineering, North Andover College, and Raymond Smith, program analyst with the NY Office of Parks, Recreation & Historic Preservation assisted the team as well.

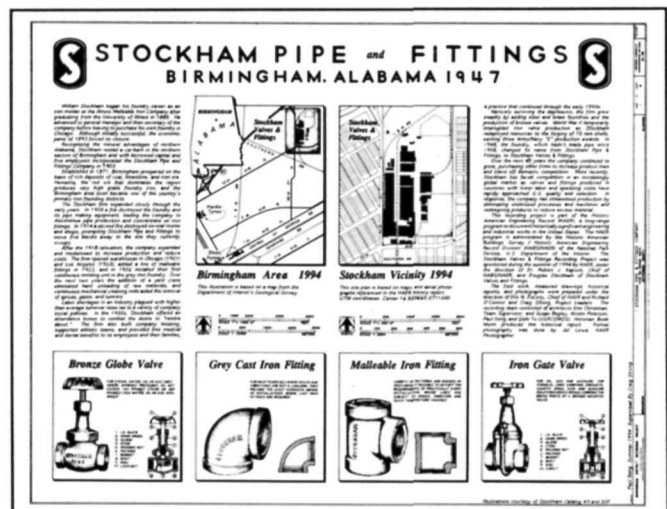
Philadelphia, Pennsylvania



350-Ton Hammerhead Crane, Philadelphia, Philadelphia County, Pennsylvania (HAER No. PA-387-F-1). Photographer: Jet Lowe - 1994. The largest crane of its type in the world when completed in 1919.

comparing the construction features of the drydocks, and other historic drawings will be photocopied for inclusion in the HABS/HAER Collections.

Birmingham, Alabama



Located in the Birmingham Industrial District, the Stockham foundry was organized in 1903 to produce gray iron soil pipe and fittings. After several disastrous fires, the company eliminated pipe production to concentrate on valves and fittings, thereby complementing the large cast iron pipe industry that had developed around Birmingham's rich mineral deposits of coal, limestone, and high-phosphorous iron ore.

The rebuilt 1918 Stockham facility was designed as a mass-production foundry, and therein lies its significance. To expedite the labor intensive procedures of jobbing foundries, Stockham implemented innovative systems in the critical areas of sand processing and delivery, raw material handling, cupola charging and mold manufacturing, pouring, cast shakeout, cleaning, and malleable iron annealing. An elaborate system of overhead railings, conveyor belts, and moving platforms

united these systems. In contrast to this high level of automation, several junctures in the process remained labor intensive. Balancing specialized, innovative automated processes with an age-old reliance on human labor accounts in large part for Stockham's commercial success and HAER's interest in recording the site.

In addition to traditional elevations, plans, and sections, HAER's 1994 Level I documentation of the Stockham facility included interpretive drawings of the elaborate conveyance system and several generations of core making processes, a written history of the firm's implementation of foundry technology, and large-format photography. The team's work was featured in a close-out presentation August 25, 1994, at the auditorium of the Alabama Power Company Headquarters and illustrated with slides, drawings and photographs.

WRIGHT-PATTERSON AIR FORCE BASE, BRICK QUARTERS

Dayton, Ohio

Project Leaders:

Dean A. Herrin, HAER Historian

Catherine C. Lavoie, HABS Historian

Cosponsor: Wright-Patterson Air Force Base, Office of Environmental Management

Team Members:

Charissa Wang, Architect, Hardlines: Design & Delineation

Donald Durst, Architect, Hardlines: Design & Delineation

Work continued this year at Wright-Patterson Air Force Base where HAER has previously documented the historic aeronautical engineering features of the base. The U.S. Army Legacy program made available funds this year for HABS documentation of the 1935 brick officers quarters, which were part of a massive project to create permanent housing for military personnel nationwide. The brick officers quarters at Wright-Patterson Air Force Base are significant as a adaptation of early civilian planning principles and popular styles of suburban architecture applied to a military setting. The execution of such planned enclaves on military installations represents an instance of the federal government on the forefront of the development of important new areas of planning and design. Nationally recognized civilian architects and planners were consulted in many of these early projects, thus creating the prototype for post World War II development nationwide.

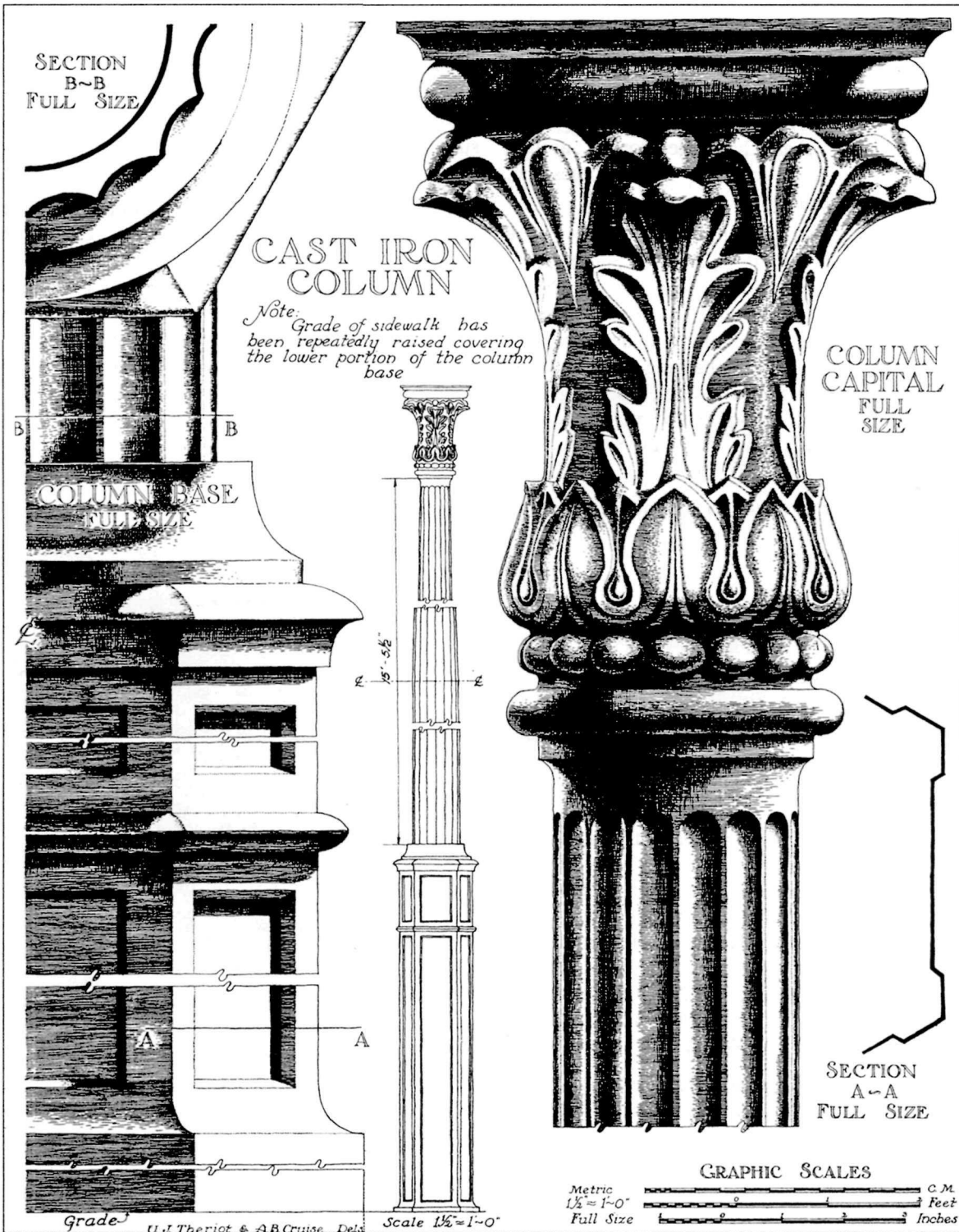
The brick quarters are a grouping of detached and duplex residences executed in the tudor style and laid out in a suburban arrangement indicative of the latest in landscape and planning principles. The horseshoe-shaped complex includes a central green space with reflecting pool (the turtle pond), flanked by avenues, with streets running both parallel and perpendicular in grid fashion. At the top of the horseshoe is the officers club. The structures were erected in nine different plans/styles, or, more basically, five plans with variations on exterior details and/or interior plan. The landscape also allows for spacious rear yards and picturesque, tree-lined vistas.

HAER documentation consisted of written history, measured drawings and large-format photography. The project was an examination of both the individual brick residences and the cultural landscape of the entire complex



Entryway, Wright-Patterson Air Force Base, Brick Officers' Quarters, Types C & D, Dayton vicinity, Green County, Ohio (HAER No. OH-103-C). Photographer: Dave Diesing, Hardlines - 1994.

of structures. Thus, the documentation was arranged so as to make comparisons between the various plans and exterior finishes of the structures. A site plan, showing the relationship of the buildings, the layout and open space, etc., was used to convey the significant planning aspect of the project.



Cast Iron Column Capital, Le Prêtre Mansion, New Orleans, Orleans Parish, Louisiana (HABS No. LA-53, portion of Sheet 21 of 26). Delineator: U.J. Theriot and A.B. Cruise - 1940. This measured drawing is one appearing in *America Preserved: A Checklist of Historic Structures, Buildings, and Sites* - an updated checklist of more than 30,000 sites and structures recorded by HABS/HAER (see p. 11 New HABS/HAER Checklist Produced.)

COLLECTIONS MANAGEMENT PROGRAM

MISSION ACCOMPLISHED

In Fiscal Year 1994, the Collections Management (CM) program successfully achieved its mission to make the HABS/HAER Collections easily accessible to a wide audience and to ensure the integrity and archivability of HABS/HAER documentation.

Beyond this basic mission the CM program also fulfilled many assignments associated with the management of the Collections. In 1994 the program expanded the scope of its mission through the establishment of an educational outreach component initiated by Georgette R. Wilson, CM Administrator, and developed with the assistance of Brian L. Cary, CM Architect, and Monica P. Murphy, CM Historian. Educational outreach activities by CM serve two basic goals: 1) To reach new audiences, particularly those not formally trained in architecture, engineering, or historic preservation; yet, have an avid interest in these areas, and 2) To create opportunities for HABS/HAER exhibits, publications, lectures, and workshops based on the abundant resources of architectural and engineering documentation in the Collections.

HABS/HAER's tradition of public/private activities and partnerships with national organizations and other government agencies lends itself to these new endeavors. For instance, during Fiscal Year 1994, CM staff engaged in organizing orientation tours of the Library of Congress; executing a Memorandum of Agreement with West Virginia

University (WVU) to connect the HABS/HAER Computer Index with the Internet via WVU's telecommunications system WVNET (see below *HABS/HAER Index and Technology*); producing a color transparency portfolio of National Park Service sites and structures for the National Park Foundation in order to familiarize their constituents with the HABS/HAER Collections; assisting the American Society of Civil Engineers (ASCE), a member of the HAER Tripartite Agreement, with the selection of HAER photographs for exhibition at ASCE offices to help commemorate the HAER program's 25th anniversary; initiating a records disposition schedule for Record Group 515 at the National Archives at College Park (see p. 50 *Activities at the National Archives*); developing in cooperation with the Library of Congress, Cataloging Distribution Services Division (CDS) a prototype compact disc-read only memory (CD-ROM) containing HABS images and historical text of three architectural styles (see p. 11 *CD-ROM Project Takes Shape*); organizing and coordinating the annual Peterson Prize competition (see p. 4 *Charles E. Peterson Prize*); participating with the publication of *America Preserved: A Checklist of Historic Structures, Buildings, and Sites* -- an updated checklist of more than 30,000 sites and structures recorded by HABS/HAER (see p. 11 *New HABS/HAER Checklist Produced*); and last, but certainly not least, compiling, editing, and overseeing the publication of the *1993 HABS/HAER Review*.

1994 HABS/HAER COLLECTIONS STATISTICS

Transmitted Documentation

	<u>HABS/HAER</u>
No. of historic structures	622
No. of sheets of drawings	349
No. of large-format photographs	4,908
No. of written histories and data pages	2,395

Collection Totals

	<u>HABS</u>	<u>HAER</u>	<u>HABS/HAER</u>
No. of historic structures	26,403	4,826	31,181
No. of sheets of drawings	47,891	2,325	50,072
No. of large format photographs	122,326	43,759	165,925
No. of written histories and data pages	66,807	33,155	99,374

Note: Some structures have been documented by both HABS and HAER. These structures are counted twice in the separate HABS and HAER

statistics; however, duplicate statistics are excluded from "HABS/HAER" totals.

HABS/HAER INDEX AND TECHNOLOGY

West Virginia University

The Institute for the History of Technology and Industrial Archaeology (IHTIA), part of the Eberly College of Arts and Sciences, West Virginia University -- represented by Larry N. Sybolt, Research Assistant -- entered into a Memorandum

of Agreement with HABS/HAER -- represented by Georgette R. Wilson -- to connect the HABS/HAER Computer Index online with the Internet through the Charles Wise, Jr. Library's Mountainlynx system and WVNET, the statewide

educational telecommunications system. Initially the computer index will be listed as "Under Construction" while programmers convert the data to the new system. When the

conversion is completed, HABS/HAER will produce a pamphlet with instructions on how to access the index through Internet.

ACTIVITIES AT THE NATIONAL ARCHIVES

From January to July, 1994, the HABS/HAER records of Record Group (RG) 515 were unavailable to the public and transfer of all new materials was suspended as the records were moved from the National Archives location in downtown Washington, D.C., to the new facilities at College Park, Maryland. The National Archives at College Park, as the branch facility is known, is the most technologically advanced archival storage facility in the world. RG 515 was officially reopened and available to the public on July 1, 1994, giving researchers access to HABS/HAER administrative history records spanning from 1933-1990. Information about the records can be obtained by either calling General Reference at (301) 713-6800, or writing to or visiting the National Archives at College Park, College Park, MD, 20740-6001.

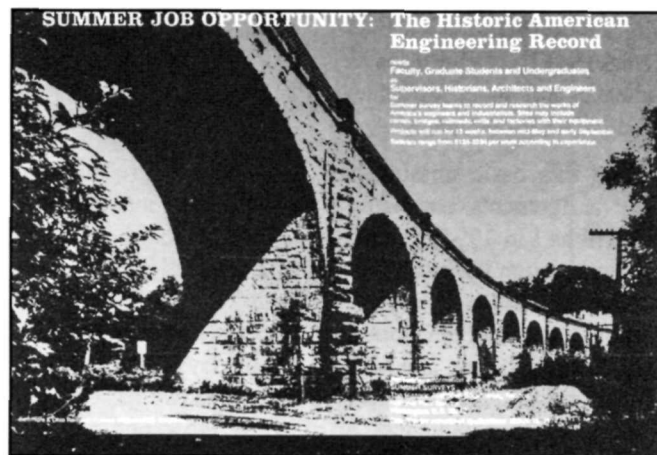
With the honor of having a record group comes the responsibility of managing and maintaining the administrative records as they exist in the HABS/HAER office until it is time to transfer them to the National Archives. To accomplish this feat, Monica P. Murphy under the supervision of Georgette R. Wilson, initiated an inventory of the HABS/HAER office, and based upon her findings, a records disposition schedule will be written. This schedule will help staff members determine what records should be transferred to the National Archives and when. Records inventoried so far include those of the HABS/HAER Chief and Deputy Chief, HABS Chief and HAER Chief, HABS/HAER project leaders, and the central office files. The schedule is to be completed in the spring of 1995.

In conjunction with this inventory, RG 515 increased in holdings with the transfer of recent publications, (7) audio tapes, (3) posters, a copy of the HABS/HAER Computer Index on electronic tape, (2) boxes of textual records, as well as, an accretion of HAER project records. These materials are housed, maintained, and serviced at the National Archives at College Park.

Also during Fiscal Year 1994, James C. Massey, former

COLLECTIONS MANAGEMENT SUMMER INTERN

Collections Management welcomed Brian T. Berkley, a graduate student in public history at West Virginia University, as its 1994 summer intern. Mr. Berkley was a "quick study" and successfully assumed the duties of transmitting HABS/HAER documentation, accessioning and cataloging the personal architectural library of the late Dr. Theodore Turak -- generously donated by his family,



HAER Summer Hiring Poster - 1974. An example of HABS and HAER memorabilia sought from program alumni for inclusion in Record Group 515 at the National Archives at College Park.

Chief of HABS, and his wife, Shirley Maxwell, conducted a nationwide search among program alumni for donations of HABS and HAER memorabilia such as: posters and flyers; photographs of HABS/HAER staff at work and play; reports and newsletters, in particular those from the 1930's to the 1950's; materials on field team exhibits; and other such ephemeral items. Although their efforts yielded notable results, there are still some significant gaps which need to be filled. If you have any such items described, and would like to donate the original or a photographic copy for inclusion in the National Archives Record Group 515, please contact Ms. Murphy at (202) 343-9598. Your generosity is greatly appreciated. Individuals who responded to the Mr. Massey's and Ms. Maxwell's efforts include: Ellen Beasley, Giorgio Cavaglieri, Dorothy Buffmire Chatfield, Leslie Divoll, Phedra Frantz, H. Roll McLaughlin, Osmund Overby, Charles E. Peterson, Elisabeth Walton Potter, John C. Poppeliers, F. Blair Reeves, J. William Rudd, Theodore Anton Sande, George B. Tatum, Michael Tomlin, Robert M. Vogel, and Barbara Writson.

assigning HABS and HAER project numbers, and coordinating reproduction materials. Additionally, he was instrumental in editing and formatting the *1993 HABS/HAER Review* in the absence of a key staff member within the Collections Management program. He far exceeded the requirements of the job and made a lasting contribution.

APPENDIX: 1994 HABS/HAER TRANSMITTALS

HABS TRANSMITTALS

HABS No.	CITY-TOWN	Record Name	DRW	PHO DATA	HABS No.	CITY-TOWN	Record Name	DRW	PHO DATA		
AK-138-A	PALMER VIC.	Agricultural Experiment Station,Kodiak C	0	2	0	AK-107	SITKA	Naval Operating Base	0	3	0
AK-96	AKUTAN	Akutan,Village of	0	2	0	AK-95	NIKOLSKI	Nikolski,Village of	0	1	0
AK-169	ANCHORAGE	Alaska Center for the Performing Arts	0	1	0	AK-97	NINILCHIK	Ninilchik,Village of	0	2	0
AK-145	BARROW	Alaska Court System Building	0	1	0	AK-183	POINT HOPE	Ooyatohna,Nanny,House	0	7	0
AK-168-A	ANCHORAGE	Alaska Methodist University,Campus Cente	0	2	0	AK-123	PETERSBURG	Petersburg,Town of	0	4	0
AK-109	SITKA	Alaska Native Brotherhood Hall,Sitka Cam	0	3	0	AK-104	SITKA	Pioneer's Home	0	1	0
AK-171	ANCHORAGE	Alaska Railroad Depot	0	1	0	AK-150	BARROW	Point Barrow Refuge Station	0	5	0
AK-112	JUNEAU	Alaska's Governor's Mansion	0	4	0	AK-164	ANCHORAGE	Potter Section House	0	2	0
AK-155	CORDOVA	Alaskan Hotel	0	1	0	AK-83	NIKOLAI	Presentation of Our Lord Russian Orthodo	0	12	3
AK-170	ANCHORAGE	Anchorage Museum of History & Art	0	1	0	AK-79	ANIAC	Protection of St. Mary's Russian Orthodox	0	3	1
AK-177	ANCHORAGE	Anchorage Police Department Building	0	1	0	AK-180	PRUDHOE BAY	Prudhoe Bay,Town of	0	1	0
AK-179	ANCHORAGE	Anchorage,City of	0	2	0	AK-140	PALMER VIC.	Rebarchek Farm	0	5	0
AK-173	ANCHORAGE	Anderson,Oscar,House	0	5	0	AK-64	SITKA	Russian Bishop's House	0	28	8
AK-160	ANCHORAGE	Animal Control Center	0	2	0	AK-64-B	SITKA	Russian Bishop's House,Priest's House	0	1	0
AK-146	BARROW	Arctic Slope Regional Corporation Office	0	2	0	AK-84-A	SITKA	Russian Bishop's House,School	0	1	0
AK-77	KARLUK	Ascension of Our Lord Russian Orthodox	0	14	5	AK-86	KING SOLMON VIC	Russian Orthodox Church	0	11	3
AK-178	ANCHORAGE	BP Exploration Building	0	1	0	AK-70-A	PORT HEIDEN	Russian Orthodox Church	0	2	1
AK-125-A	PRUDHOE BAY	BP Facilities,Base Operations Center	0	7	0	AK-108	SITKA	Russian-American Company Building No. 29	0	2	0
AK-124	PRUDHOE BAY VIC	BP Facilities,Endicott Site	0	5	0	AK-91-A	ENGLISH BAY	SS. Sergius & Herman Russian Orthodox Ch	0	5	4
AK-124-A	PRUDHOE BAY VIC	BP Facilities,Endicott Site,Base Operati	0	4	0	AK-91-B	ENGLISH BAY	SS. Sergius & Herman Russian Orthodox Ch	0	3	0
AK-142	PALMER VIC.	Bailey-Estelle Farm	0	1	0	AK-185	SITKA	Sitka,City of	0	4	0
AK-147	BARROW	Brower House	0	3	0	AK-122	PETERSBURG	Sons of Norway Hall	0	6	0
AK-174	ANCHORAGE	CIRI Building	0	1	0	AK-89	LIME VILLAGE	Ss. Constatine and Helen Russian Orthodo	0	8	3
AK-182	POINT HOPE	Cemetery	0	2	0	AK-91	ENGLISH BAY	Ss. Sergius and Herman Russian Orthodox	0	2	0
AK-101	WRANGELL	Chief Shakes House	0	7	0	AK-73	AKUTAN	St. Alexander of Nevsky Russian Orthodox	0	9	3
AK-141-A	PALMER	Colony Village,Wreck Barn	0	1	0	AK-156	CORDOVA	St. George's Episcopal Church	0	2	0
AK-153	CORDOVA	Cordova High School	0	1	0	AK-63	ST. GEORGE	St. George,Village of	0	4	0
AK-152	CORDOVA	Cordova,City of	0	3	0	AK-74	KING COVE	St. Herman Russian Orthodox Church	0	9	1
AK-126-D	ESTER	Cripple Creek,Assay Office-Superintenden	0	1	0	AK-80	NAPASKIAK	St. Jacob Russian Orthodox Church	0	7	1
AK-126-B	ESTER	Cripple Creek,Bunkhouses	0	1	0	AK-80-A	NAPASKIAK	St. Jacob Russian Orthodox Church,Church	0	4	0
AK-126-A	ESTER	Cripple Creek,Mess Hall-Bunkhouse	0	4	0	AK-61	ANGOOD	St. John the Baptist Russian Orthodox Ch	0	10	0
AK-126-C	ESTER	Cripple Creek,Wanigan	0	1	0	AK-85	NAKNEK	St. John the Baptist Russian Orthodox Ch	0	10	3
AK-167	ANCHORAGE	David,Leopold,House	0	1	0	AK-72	PERRYVILLE	St. John the Theologian Russian Orthodox	0	7	3
AK-119	KETCHIKAN	Dolly's House	0	2	0	AK-175	ANCHORAGE	St. Mary's Episcopal Church	0	3	0
AK-115	JUNEAU	Downtown (Commercial Buildings)	0	5	0	AK-70-B	PORT HEIDEN	St. Matrona Russian Orthodox Church	0	3	1
AK-65-B	RUSSIAN MISSION	Elevation of Holy Cross Russian Orthodox	0	6	0	AK-133	FAIRBANKS	St. Matthew's Episcopal Church	0	1	0
AK-65-A	RUSSIAN MISSION	Elevation of Holy Cross Russian Orthodox	0	6	6	AK-67	MARSHALL	St. Michael the Archangel Russian Orthod	0	8	1
AK-65	RUSSIAN MISSION	Elevation of the Holy Cross Russian Orth	0	1	0	AK-59	JUNEAU	St. Nicholas Russian Orthodox Church	0	12	4
AK-82	SOUTH NAKNEK	Elevation of the Holy Cross Russian Orth	0	5	3	AK-60	HOONAH	St. Nicholas Russian Orthodox Church	0	12	0
AK-137-A	FOX	Fairbanks Exploration Co.,Goldstream Dre	0	3	0	AK-66	SELDONIA	St. Nicholas Russian Orthodox Church	0	9	4
AK-137	FOX	Fairbanks Exploration Co.,Goldstream Dre	0	1	0	AK-69	NIKOLSKI	St. Nicholas Russian Orthodox Church	0	10	4
AK-143	PALMER VIC.	Farm	0	1	0	AK-75	SAND POINT	St. Nicholas Russian Orthodox Church	0	8	1
AK-161	ANCHORAGE	Fifth Avenue Mall	0	2	0	AK-76	PILOT POINT	St. Nicholas Russian Orthodox Church	0	7	3
AK-28	ANCHORAGE	Fourth Avenue Theatre	0	7	1	AK-84	NONDALTON	St. Nicholas Russian Orthodox Church	0	8	4
AK-103	WRANGELL	Front Street (Commercial Buildings)	0	1	0	AK-87	PEDRO BAY	St. Nicholas Russian Orthodox Church	0	4	3
AK-117	KETCHIKAN	Front Street (Commercial Buildings)	0	3	0	AK-88	EKUK	St. Nicholas Russian Orthodox Church	0	9	3
AK-163	ANCHORAGE	Garden of Eatin'	0	1	0	AK-59-A	JUNEAU	St. Nicholas Russian Orthodox Church,Pri	0	1	0
AK-57	KODIAK	Holy Resurrection Russian Orthodox Churc	0	4	6	AK-68	CHIGNIK LAKE	St. Nicholas Russian Orthodox Churches	0	4	0
AK-93	NINILCHIK	Holy Transfig. of Our Lord Russian Ortho	0	13	5	AK-81	IGIUGIG	St. Nicholas Russian Orthodox Churches	0	2	3
AK-128	FAIRBANKS	Immaculate Conception Roman Catholic Chu	0	4	0	AK-94	EKLUTNA	St. Nicholas Russian Orthodox Churches	0	6	0
AK-105	SITKA	Jackson,Sheldon College	0	1	0	AK-88-B	CHIGNIK LAKE	St. Nicholas Russian Orthodox Churches,N	0	3	1
AK-106	SITKA	Jackson,Sheldon Museum	0	4	0	AK-81-B	IGIUGIG	St. Nicholas Russian Orthodox Churches,N	0	1	0
AK-105-A	SITKA	Jackson,Sheldon,College,Allen,Richard H.	0	2	0	AK-94-B	EKLUTNA	St. Nicholas Russian Orthodox Churches,N	0	2	0
AK-105-C	SITKA	Jackson,Sheldon,College,Sage Memorial Bu	0	1	0	AK-68-A	CHIGNIK LAKE	St. Nicholas Russian Orthodox Churches,O	0	2	1
AK-105-B	SITKA	Jackson,Sheldon,College,Whitmore Hall	0	1	0	AK-81-A	IGIUGIG	St. Nicholas Russian Orthodox Churches,O	0	3	0
AK-131	FAIRBANKS	Joy Elementary School	0	2	0	AK-94-A	EKLUTNA	St. Nicholas Russian Orthodox Churches,O	0	7	5
AK-113	JUNEAU	Juneau Public Library	0	3	0	AK-144	BARROW	St. Patrick's Roman Catholic Church	0	1	0
AK-116	JUNEAU	Juneau,City of	0	1	0	AK-62	ST. PAUL	St. Paul,City of	0	9	0
AK-176	ANCHORAGE	KENI Radio Building	0	2	0	AK-92-B	LOWER KALSKAG	St. Seraphim Russian Orthodox Churches,N	0	6	3
AK-114	JUNEAU	Kennedy Street (Houses)	0	2	0	AK-92-A	LOWER KALSKAG	St. Seraphim Russian Orthodox Churches,O	0	8	3
AK-120	KETCHIKAN	Ketchikan,City of	0	9	0	AK-90	CHUATHBALUK	St. Sergius of Radonezh Russian Orthodox	0	10	4
AK-162	ANCHORAGE	Kimball Building	0	1	0	AK-148	BARROW	Stuaqpek	0	1	0
AK-129	FAIRBANKS	Lacey Street Theatre	0	2	0	AK-136	FAIRBANKS	Thomas,George C.,Memorial Library	0	1	0
AK-135	FAIRBANKS	Log Building	0	2	0	AK-121	SAXMAN	Totem Park	0	2	0
AK-159	ANCHORAGE	Loussac,Z.J.,Public Library	0	1	0	AK-121-A	SAXMAN	Totem Park,Tribal Building	0	3	0
AK-165	ANCHORAGE	Lovtave House	0	2	0	AK-181	POINT HOPE	Town Hall	0	1	0
AK-134	FAIRBANKS	Masonic Temple	0	2	0	AK-78	EGEGIK	Transfiguration of Our Lord Russian Orth	0	4	3
AK-110	SITKA	Model Cottage	0	2	0	AK-157	CORDOVA	U.S. Post Office & Courthouse	0	2	0
AK-154	CORDOVA	Morpac Cannery	0	4	0	AK-166	ANCHORAGE	U.S. Post Office & Courthouse	0	1	0
AK-71	NAPASKIAK	Napaskiak,Village of	0	2	0	AK-100	WRANGELL	U.S. Post Office & Customs House	0	3	0
AK-184-A	BARROW VIC.	Naval Arctic Research Lab,Quonset Huts	0	1	0	AK-130	FAIRBANKS	U.S. Post Office and Courthouse	0	3	0

APPENDIX A: 1994 HABS/HAER TRANSMITTALS

HABS TRANSMITTALS (cont.)

HABS No.	CITY-TOWN	Record Name	NDRW NPHO DATA			HABS No.	CITY-TOWN	Record Name	NDRW NPHO DATA		
AK-139	PALMER	United Protestant Church (Presbyterian)	0	2	0	MI-367	LELAND VIC.	Degan House	2	1	0
AK-139-A	PALMER	United Protestant Church (Presbyterian)	0	1	0	MI-368	LELAND VIC.	Fiske House	1	1	0
AK-127	FAIRBANKS	University of Alaska Museum	0	6	0	MI-376	GLEN ARBOR VIC.	Glen Haven Cannery	2	1	0
AK-149-A	BARROW	Utkeagvik Presbyterian Church,Manse	0	2	0	MI-256	GLEN ARBOR	Glen Haven Historic District	4	1	0
AK-172	ANCHORAGE	Visitor Information Center	0	2	0	MI-394	PORT ONEIDA	Hayms Farm	0	1	0
AK-118	KETCHIKAN	Walker,Norman R.,House	0	3	0	MI-369	LELAND VIC.	Hollister House	1	1	0
AK-158	ANCHORAGE	Wendler Building	0	1	0	MI-393	PORT ONEIDA	Kelderhouse Farm	0	1	0
AK-111	JUNEAU	Wickersham House	0	6	0	MI-370	LELAND VIC.	Londergan Cottage	1	1	0
AK-132	FAIRBANKS	Wickersham House	0	4	0	MI-396	GLEN ARBOR	Miller,Fred,Farm	0	1	0
AK-102	WRANGELL	Wrangell Public School	0	2	0	MI-371	LELAND VIC.	Monte Carlo House	1	1	0
CA-2333	RANCHO SANTA FE	Osona,Juan,House	0	3	0	MI-354-A	GLEN ARBOR	Olsen,Charles,Farm,House	1	1	0
CT-412	NEW HAVEN	Exchange Building	0	16	3	MI-395	GLEN ARBOR	Olsen,Howard,Farm	0	2	0
DC-775-A	WASHINGTON	1318 Vermont Ave.,NW,Carriage House	1	1	0	MI-384	GLEN ARBOR VIC.	Post Office	2	0	0
DC-775	WASHINGTON	1318 Vermont Avenue,NW (House)	9	33	30	MI-398	GLEN ARBOR VIC.	Sleeping Bear Dunes National Seashore	2	0	0
DC-37	WASHINGTON	White House,The	41	602	2	MI-381	GLEN ARBOR VIC.	Sleeping Bear Inn	5	8	0
IA-176	OSKALOOSA	Belvidere Saloon & Rock Island Brewery C	0	3	1	MI-381-A	GLEN ARBOR VIC.	Sleeping Bear Inn,Garage-Dorm	1	1	0
IA-167	OSKALOOSA	Green,J. H., & Co. Building	0	22	7	MI-372	LELAND VIC.	Summer Hotel	1	2	0
IA-168	OSKALOOSA	Gruwell,C. B. & Company,Building	0	1	1	MI-373	LELAND VIC.	Tree House	1	1	0
IA-173	OSKALOOSA	Hetherington Confectionery & Ice Cream S	0	1	1	MI-336	GLEN ARBOR	U. S. Lighthouse Reservation	2	1	0
IA-185	OSKALOOSA	Hoffman,Phillip,House	0	3	1	MI-336-A	GLEN ARBOR	U. S. Lighthouse Reservation,Quarters &	8	11	0
IA-175	OSKALOOSA	Holt & Son Grocery Store	0	2	1	MI-338-B	LELAND	U.S. Lifesaving Station,Boathouse	2	1	0
IA-181	OSKALOOSA	Holt Commercial Building	0	3	1	MI-338-A	LELAND	U.S. Lifesaving Station,Crew's Quarters	4	1	0
IA-174	OSKALOOSA	Hoopes & BeDillion Restaurant	0	1	1	MI-336-C	GLEN ARBOR	U.S. Lighthouse Reservation,Fog Signal B	0	1	0
IA-183	OSKALOOSA	Howar,C. E.,Cigars & Freeland Ice Cream	0	1	1	MI-336-B	GLEN ARBOR	U.S. Lighthouse Reservation,Oil Storage	0	1	0
IA-186	OSKALOOSA	Kalbach & Son Building	0	7	8	MI-374	LELAND VIC.	Wing House	1	1	0
IA-182	OSKALOOSA	Mattison's,W.,Groceries & Provisions	0	2	1	MO-1911	INDEPENDENCE	Noland-Haukenberry House	12	0	0
IA-189	OSKALOOSA	McCall's, F.W., Marble Shop	0	3	4	MO-1909	INDEPENDENCE	Wallace, Frank,House	7	0	0
IA-177	OSKALOOSA	McGregor's Furniture House	0	3	1	MO-1910	INDEPENDENCE	Wallace,George,House	7	0	0
IA-172	OSKALOOSA	Oiler,J.W.,Groceries	0	3	1	MT-82	COLSTRIP VIC.	Doc Taylor Place	0	3	8
IA-178	OSKALOOSA	Oskaloosa Implement Company	0	2	1	MT-82-A	COLSTRIP VIC.	Doc Taylor Place,Barn	0	2	0
IA-147	OSKALOOSA	Oskaloosa,Town of	0	0	7	MT-82-B	COLSTRIP VIC.	Doc Taylor Place,House	0	7	0
IA-165	DAVENPORT	Palmer Mansion	14	0	0	MT-82-C	COLSTRIP VIC.	Doc Taylor Place,Windmill	0	1	0
IA-179	OSKALOOSA	Roenspiess,L. P., Cigar Manufacturing	0	2	1	MT-84	HAMILTON	Hamilton Main Post Office	0	13	10
IA-170	OSKALOOSA	Salvation Army Barracks	0	2	1	MT-83	BOZEMAN VIC.	O'Brien,James,Homestead	0	0	9
IA-171	OSKALOOSA	Swearengen,L. A., Meat Market	0	2	1	MT-83-C	BOZEMAN VIC.	O'Brien,James,Homestead,First Shed	0	1	0
IA-184	OSKALOOSA	Waggoner,John,House	0	5	1	MT-83-B	BOZEMAN VIC.	O'Brien,James,Homestead,Garage	0	2	0
IA-180	OSKALOOSA	Wilkins,S. J. & Company,Building	0	3	1	MT-83-G	BOZEMAN VIC.	O'Brien,James,Homestead,Hay Barn	0	1	0
ID-76	SPALDING	Nez Perce Agency-Agency Log Building	0	3	1	MT-83-A	BOZEMAN VIC.	O'Brien,James,Homestead,Residence	0	4	0
ID-77	SPALDING	Nez Perce Agency-Agent's Residence	0	2	1	MT-83-E	BOZEMAN VIC.	O'Brien,James,Homestead,Second Shed	0	1	0
ID-75	SPALDING	Poor Coyote's Cabin	0	5	5	MT-83-D	BOZEMAN VIC.	O'Brien,James,Homestead,Shed and Bunkhou	0	2	0
ID-78	SPALDING	Watson's Store	0	5	1	MT-83-F	BOZEMAN VIC.	O'Brien,James,Homestead,Stock Barn	0	1	0
IN-227	INDIANAPOLIS	122 South Meridian Street (Commercial)	0	11	6	OR-144	CRATER LAKE	Crater Lake National Park	3	0	0
IN-228	INDIANAPOLIS	House of Crane Building	0	13	7	OR-145	CAVE JUNCTION	Oregon Caves National Monument	3	0	0
IN-213	INDIANAPOLIS	Journal Building	0	8	23	OR-145-B	CAVE JUNCTION	Oregon Caves National Monument,Chalet	3	0	0
IN-216	INDIANAPOLIS	Rost Jewelry Company Building	0	8	15	OR-145-A	CAVE JUNCTION	Oregon Caves National Monument,Chateau	8	0	0
KY-214	DANVILLE	Todd-McKee-Cheek House	6	0	0	OR-145-C	CAVE JUNCTION	Oregon Caves National Monument,Ranger Re	1	0	0
LA-1223	NEW ORLEANS	Duncan,Albert House	0	7	5	PA-5443	PITTSBURGH	Bracken,John M.,Hotel	0	14	14
LA-1228	NEW ORLEANS	Ferrera Tenement House 1	0	3	5	PA-5383-J	PHILADELPHIA	Dobson,J. & J., Carpet Mill (W. Parcel),	0	7	5
LA-1227	NEW ORLEANS	Ferrera Tenement House II	0	9	5	PA-5383-O	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	4	6
LA-1224	NEW ORLEANS	Lear,Alton House	0	7	5	PA-5383-W	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	3	1
LA-1225	NEW ORLEANS	Rousselle House	0	6	5	PA-5383-A	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	5	1
MI-330	DETROIT	100-102 Monroe Avenue (Commercial Buildi	0	4	10	PA-5383-K	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	10	6
MI-331	DETROIT	104-106 Monroe Street (Commercial Buildi	0	2	8	PA-5383-L	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	8	5
MI-321	DETROIT	16-30 Monroe Avenue (Commercial Building	0	8	14	PA-5383-M	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	10	6
MI-341	YPSILANTI	220 Pearl Street (Commercial Building)	0	8	7	PA-5383-N	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	6	6
MI-322	DETROIT	32-42 Monroe Avenue (Commercial Building	0	7	13	PA-5383-P	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	4	6
MI-324	DETROIT	52-54 Monroe Avenue (Commercial Building	0	2	4	PA-5383-R	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	7	6
MI-325	DETROIT	58 Monroe Avenue (Commercial Building)	0	4	4	PA-5383-S	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	6	5
MI-326	DETROIT	62 Monroe Avenue (Commercial Building)	0	2	4	PA-5383-T	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	1	4
MI-327	DETROIT	66-68 Monroe Avenue (Commercial Building	0	3	4	PA-5383-U	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	4	5
MI-328	DETROIT	70-72 Monroe Avenue (Commercial Building	0	2	4	PA-5383-V	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	5	6
MI-329	DETROIT	74-78 Monroe Avenue (Commercial Building	0	12	10	PA-5383-D	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	5	6
MI-355	GLEN ARBOR	Basch,Martin Farm	1	0	0	PA-5383-E	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	7	6
MI-380	GLEN ARBOR VIC.	Blacksmith Shop	2	0	0	PA-5383-F	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	9	6
MI-368	LELAND VIC.	Burdick House	1	1	0	PA-5383-G	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	7	6
MI-382	LELAND VIC.	Cottage Row	1	0	0	PA-5383-H	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	7	6
MI-257	GLEN ARBOR	Day,D.H.,Farmstead	1	1	0	PA-5383-I	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	2	1
MI-257-C	GLEN ARBOR	Day,D.H.,Farmstead,Bull Barn	1	0	0	PA-5383-Q	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),B	0	5	6
MI-257-B	GLEN ARBOR	Day,D.H.,Farmstead,Dairy-Horse Barn	8	3	0	PA-5383-B	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),T	0	5	6
MI-257-A	GLEN ARBOR	Day,D.H.,Farmstead,House	4	3	0	PA-5383-C	PHILADELPHIA	Dobson,J. & J.,Carpet Mill (W. Parcel),Bl	0	5	6
MI-257-E	GLEN ARBOR	Day,D.H.,Farmstead,Outbuilding	1	1	0	PA-5383	PHILADELPHIA	Dobson,John & James,Carpet Mill (West Pa	0	19	9
MI-257-D	GLEN ARBOR	Day,D.H.,Farmstead,Pig Barn	1	2	0	PA-5662	WEST OVERTON	Overholt Co. Workers House C	0	2	0
MI-375	GLEN ARBOR VIC.	Day,D.H.,Store	3	2	0	PA-5663	WEST OVERTON	Overholt Co. Workers House D	0	2	0
MI-375-B	GLEN ARBOR VIC.	Day,D.H.,Store,Garage	1	0	0	PA-5664	WEST OVERTON	Overholt Co. Workers House F	0	3	0
MI-375-A	GLEN ARBOR VIC.	Day,D.H.,Store,Restroom Building & Signs	1	0	0	PA-5657	WEST OVERTON	Overholt Company Workers' House B	0	2	11
MI-377	GLEN ARBOR VIC.	Day,Robert,House	1	0	0	PA-5660	WEST OVERTON	Overholt,A. & H.S.,Company Coks Over (Re	0	1	0

HABS TRANSMITTALS (cont.)

HABS No.	CITY-TOWN	Record Name	NDRW NPHO DATA			HABS No.	CITY-TOWN	Record Name	NDRW NPHO DATA		
PA-5859	WEST OVERTON	Overholt, A. & H.S., Company Distillery	0	7	0	SC-669	CHARLESTON	de Saussure, Louis, Carriage House	0	20	0
PA-5861-C	WEST OVERTON	Overholt, Abraham, Farm, Barn	0	2	0	SC-98	CHARLESTON	de Saussure, Louis, House	0	39	1
PA-5861-A	WEST OVERTON	Overholt, Abraham, Farm, Farm House	0	2	0	TX-3399	CASTOLON VIC.	Chisos Basin Store	6	10	1
PA-5861-B	WEST OVERTON	Overholt, Abraham, Farm, Large Barn	0	4	0	VA-1330	PETERSBURG	Cuthbert Law Office	1	0	0
PA-5861-D	WEST OVERTON	Overholt, Abraham, Farm, Stables	0	2	0	WI-324	LAPointe VIC.	Devil's Island Light Station	1	0	0
PA-5858	WEST OVERTON	Overholt, Abraham, House	0	10	0	WI-324-C	LAPointe VIC.	Devil's Island Light Station, Asst. Keeper	3	0	0
PA-5858-B	WEST OVERTON	Overholt, Abraham, Smokehouse	0	2	0	WI-324-D	LAPointe VIC.	Devil's Island Light Station, Boat House	1	0	0
PA-5858-D	WEST OVERTON	Overholt, Abraham, South Stables and Hog P	0	2	0	WI-324-B	LAPointe VIC.	Devil's Island Light Station, Keeper's Qu	3	0	0
PA-5858-A	WEST OVERTON	Overholt, Abraham, Springhouse	0	3	0	WI-324-A	LAPointe VIC.	Devil's Island Light Station, Tower	6	0	0
PA-5858-C	WEST OVERTON	Overholt, Abraham, Summerhouse and Shed	0	2	0	WI-325	LAPointe VIC.	LaPointe Light Station	1	0	0
PA-5856	WEST OVERTON	Overholt, Christian S., Store and House	6	6	12	WI-325-A	LAPointe VIC.	LaPointe Light Station, Tower	5	0	0
PA-5855	WEST OVERTON	Overton, Henry S., House	7	4	14	WI-332	BAYFIELD VIC.	Light Stations of the Apostle Islands	1	0	0
PA-6007	TRAUGER	St. Mary's Byzantine Catholic Church	0	4	1	WI-314	SUPERIOR	Massachusetts Block	0	22	13
PA-5854	WESTMORELAND	West Overton	3	1	42	WI-317-B	LAPointe VIC.	Michigan Is. Light Sta., Keeper's House	2	0	0
SC-678	CHARLESTON	17 East Battery (House)	0	16	0	WI-317-A	LAPointe VIC.	Michigan Is. Light Sta., Keeper's Qtrs. &	5	0	0
SC-671	CHARLESTON	24 South Battery Street (House)	0	11	0	WI-317-D	LAPointe VIC.	Michigan Is. Light Sta., New Light Base (1	0	0
SC-685	CHARLESTON	43 East Battery (House)	0	2	0	WI-317-C	LAPointe VIC.	Michigan Is. Light Sta., Power House	1	0	0
SC-633	CHARLESTON	Alston House	2	0	0	WI-317	LAPointe VIC.	Michigan Island Light Station	1	0	0
SC-114	CHARLESTON	Ashe, Col. John Algernon Sydney, House	0	23	0	WI-318-B	LAPointe VIC.	Outer Is. Light Sta., For Signal Building	1	0	0
SC-114-A	CHARLESTON	Ashe, Col. John Algernon Sydney, House, Dep	0	3	0	WI-318-A	LAPointe VIC.	Outer Is. Light Sta., Lighthouse & Keeper	10	0	0
SC-321-A	CHARLESTON	Ashe, Col. John, Carriage House	0	3	0	WI-318	LAPointe VIC.	Outer Island Light Station	1	0	0
SC-321	CHARLESTON	Ashe, Col. John, House	0	24	0	WI-312-B	BAYFIELD VIC.	Raspberry Is. Light Sta., Fog Signal Buil	1	0	0
SC-321-B	CHARLESTON	Ashe, Col. John, Kitchen Building	0	3	0	WI-312-A	BAYFIELD VIC.	Raspberry Is. Light Sta., Lighthouse & Ke	6	0	0
SC-674	CHARLESTON	Burkmeier House	0	10	0	WI-312	BAYFIELD VIC.	Raspberry Island Light Station	1	0	0
SC-522	CHARLESTON	Carrington-Carr House	0	20	0	WI-313-A	BAYFIELD VIC.	Sand Island Light Sta., Lighthouse & Keep	4	0	0
SC-684	CHARLESTON	Chisolm, George, House	0	16	0	WI-313	BAYFIELD VIC.	Sand Island Light Station	1	0	0
SC-672	CHARLESTON	Cook, George S., House	0	14	0	WI-307	THIENSVILLE	Thiensville Village Hall	0	9	9
SC-472	CHARLESTON	Drayton, Charles H., House	0	28	0	WV-230	HARPER'S FERRY	Armorer's Dwelling House	6	18	1
SC-675	CHARLESTON	East Battery	0	3	0	WV-224	HARPER'S FERRY	Harpers Ferry National Historical Park, G	0	7	1
SC-54	CHARLESTON	Edmonston, Charles, House	0	49	4	WV-174	HARPER'S FERRY	Roeder House	11	19	0
SC-682	CHARLESTON	Ingraham, Nathaniel, House	0	15	0	WV-223	HARPER'S FERRY	Roeder Store	12	23	2
SC-670	CHARLESTON	Nathaniel Russell Middleton House	0	13	0	WV-156	HARPER'S FERRY	White Hall	13	15	4
SC-681	CHARLESTON	Porcher-Simonds House	0	40	0	WY-112	GILLETTE VIC.	Dunlap Ranch	0	4	14
SC-676	CHARLESTON	Ravenel, John, House	0	17	0	WY-112-E	GILLETTE VIC.	Dunlap Ranch, Barn	0	2	1
SC-677	CHARLESTON	Ravenel, William, House	0	17	0	WY-112-C	GILLETTE VIC.	Dunlap Ranch, Bunkhouse	0	2	1
SC-521	CHARLESTON	Robertson, George, House	0	22	0	WY-112-H	GILLETTE VIC.	Dunlap Ranch, Chicken House-Storage	0	2	1
SC-269	CHARLESTON	Robinson-Aiken House	11	81	9	WY-112-G	GILLETTE VIC.	Dunlap Ranch, Garage	0	2	1
SC-173	CHARLESTON	Roper, William, House	0	28	0	WY-112-J	GILLETTE VIC.	Dunlap Ranch, Homestead Cabin	0	2	1
SC-683	CHARLESTON	Shackleford-Williams House	0	20	0	WY-112-F	GILLETTE VIC.	Dunlap Ranch, Homestead House	0	2	2
SC-668	CHARLESTON	South Battery	0	17	0	WY-112-D	GILLETTE VIC.	Dunlap Ranch, Privy	0	1	1
SC-673	CHARLESTON	Spear, James E., House	0	15	0	WY-112-I	GILLETTE VIC.	Dunlap Ranch, Pumphouse	0	2	1
SC-545	CHARLESTON	Stevens-Lathers House	0	23	0	WY-112-A	GILLETTE VIC.	Dunlap Ranch, Ranch House	0	2	1
SC-174	CHARLESTON	Villa Marguerita	0	27	0	WY-112-B	GILLETTE VIC.	Dunlap Ranch, Windmill	0	1	1
SC-679	CHARLESTON	Visanka, Julius R., House	0	12	0	WY-112-K	GILLETTE VIC.	Dunlap Ranch, Chicken Coop	0	2	1
SC-115-B	CHARLESTON	Washington, William, Carriage House	0	2	0	WY-109	WRIGHT VIC.	Rock Well Homestead	0	2	8
SC-115	CHARLESTON	Washington, William, House	0	30	1	WY-109-A	WRIGHT VIC.	Rock Well Homestead, Dugout	0	7	7
SC-115-A	CHARLESTON	Washington, William, Stable	0	2	0	WY-109-B	WRIGHT VIC.	Rock Well Homestead, Rock Lined Well	0	2	0
SC-687-A	CHARLESTON	White Point Gardens, Pavilion	0	3	0						

APPENDIX A: 1994 HABS/HAER TRANSMITTALS

HAER TRANSMITTALS

HAER No.	CITY-TOWN	Record Name	DRW	PHO DATA	HAER No.	CITY-TOWN	Record Name	DRW	PHO DATA
AK-27	SITKA	O'Connell Bridge	0	1 0	MO-66	RAYVILLE VIC.	Crooked River Bridge	0	11 6
AK-23	ANCHORAGE	Rabbit Creek White Alice Site	0	0 45	MO-71	MORSE MILL VIC.	Klondike Road Bridge	0	12 6
CA-137	PLACERVILLE VIC	Chili Bar Bridge	0	23 36	MO-70	POPLAR BLUFF VI	Roxie Road Bridge	0	10 5
CA-86	FOLSOM	Folsom Powerhouse	0	74 0	MO-68	SANTA FE VIC.	Santa Fe Bridge	0	18 13
CA-134-1	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 17	MO-72	VINELAND VIC.	Wilson Hollow Road Bridge	0	11 7
CA-134-1-A	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 0	MT-58	AVON VIC.	Kimmerly Ditch & Flume	0	5 10
CA-134-1-B	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 0	MT-88	EAST GLACIER PA	Three Bears Lake and Dams	0	14 6
CA-134-1-C	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 0	MT-88-A	EAST GLACIER PA	Three Bears Lake and Dams,East Dam	0	6 0
CA-134-1-D	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 0	MT-88-C	EAST GLACIER PA	Three Bears Lake and Dams,Water Control	0	11 0
CA-134-1-E	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	2 0	MT-88-B	EAST GLACIER PA	Three Bears Lake and Dams,West Dam	0	5 0
CA-134-1-F	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	1 0	MT-66	TROY	Troy-Libby Highway	0	15 15
CA-134-1-G	SAUSALITO VICIN	Fort Cronkhte,Anti-Aircraft Battery No.	0	1 0	ND-5	COOPERSTOWN VIC	Griggs County Bridge	2	21 5
CA-135	SHINGLETOWN VIC	Rock Wall	0	12 17	ND-6	MANDAN	Northern Pacific Railroad Overhead Brid	0	20 10
CA-54	SAN FRANCISCO	Ship BALCLUTHA	69	142 189	OH-77	MILFORD	Milford Bridge	0	14 8
CA-133-1	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	15 164	OR-64	WALDPORT VIC.	Alsea Bay Bridge,New	0	2 0
CA-133-1-A	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	120 0	OR-17	NYSSA VIC.	Owyhee Dam	0	193 123
CA-133-1-B	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	278 0	OR-48	PORTLAND	Portland Reservoir No.2	0	19 12
CA-133-1-C	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	183 0	PA-295	NEW KENSINGTON	Alcoa Research Laboratory	0	8 3
CA-133-1-D	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	21 0	PA-288	ALVERTON	Alverton Coke Works	0	4 4
CA-133-1-E	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	8 0	VANDERGRIFT	Apollo Iron and Steel Works	0	4 2	
CA-133-1-F	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	4 0	PA-296-A	VANDERGRIFT	Apollo Iron and Steel Works,Company Hous	0	3 2
CA-133-1-G	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	5 0	PA-254	LOWER BURRELL	Braeburn Alloy Steel	0	16 3
CA-133-1-H	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	1 0	PA-255	SCOTTDAL	Duraloy Company	0	1 3
CA-133-1-I	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	1 0	PA-262	ERNEST	Ernest Mines Railroad Bridge	0	2 2
CA-133-1-J	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	5 0	PA-249	GREENSBURG	Greensburg Railroad Station	0	3 2
CA-133-1-K	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	2 0	PA-287	MCALVEY'S FORT	Greenwood Furnace	0	1 3
CA-133-1-L	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	4 0	PA-287-D	MCALVEY'S FORT	Greenwood Furnace,Blacksmith Shop	0	2 0
CA-133-1-M	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	6 0	PA-287-F	MCALVEY'S FORT	Greenwood Furnace,Bookkeeper's House	0	3 0
CA-133-1-N	LOMPOC	Vandenberg Air Force Base,Space Launch C	0	2 0	PA-287-E	MCALVEY'S FORT	Greenwood Furnace,Church	0	4 0
CT-48	FARMINGTON	Bridge No. 475	0	11 5	PA-287-C	MCALVEY'S FORT	Greenwood Furnace,Ironmaster's Mansion	0	3 0
CT-32	NEW MILFORD	Gaylordsville Bridge	0	22 5	PA-287-G	MCALVEYS FORT V	Greenwood Furnace,Meat House	0	1 0
CT-31	WINDSOR	Palisado Avenue Bridge	0	21 5	PA-287-H	MCALVEYS FORT V	Greenwood Furnace,Nursery Buildings	0	2 0
CT-37-A	GROTON	U.S. Naval Submarine Base,	0	53 30	PA-287-A	MCALVEY'S FORT	Greenwood Furnace,Stack No. 1	0	2 0
CT-45	MILFORD	W. Main Street Bridge	0	16 5	PA-287-B	MCALVEY'S FORT	Greenwood Furnace,Stack No. 2	0	5 0
DC-7	WASHINGTON	Arlington Memorial Bridge	0	21 8	PA-293	TRAUGER VIC.	Hecla No. 2 Mine and Coke Works	0	4 4
DC-51	WASHINGTON	Key,Francis Scott,Bridge	0	4 0	PA-131	BETHEHEM	Hill to Hill Bridge	0	66 28
DC-50	WASHINGTON	Long Bridge	0	6 0	PA-285	JEANNETTE	Jeannette Glass Company	0	8 2
DE-27	WILMINGTON VIC.	Heald Street Bridge	0	42 4	PA-271-A	JOHNSTOWN	Johnson Steel Street Rail Co.,Drawg. Rm.	0	5 0
DE-24	TOWNSEND	Townsend Water Tower	0	5 5	PA-271-B	JOHNSTOWN	Johnson Steel Street Rail Co.,Elect. De	0	3 0
GA-82	MINERAL BLUFF	Georgia DOT Bridge #111-00060P-00020N	0	7 3	PA-271-C	JOHNSTOWN	Johnson Steel Street Rail Co.,General Of	0	2 0
GA-79	ELLERSLIE VIC.	Georgia DOT Bridge #145-00315-017.37E	0	5 3	PA-271-D	JOHNSTOWN	Johnson Steel Street Rail Co.,Iron Found	0	1 0
GA-78	COLQUITT VIC.	Georgia DOT Bridge #201-00091-01541N	0	6 2	PA-271-F	JOHNSTOWN	Johnson Steel Street Rail Co.,Pattern Sh	0	1 0
GA-81	IRWINVILLE VIC.	Georgia DOT Bridge No. 155-00032-001.54E	0	6 2	PA-271-G	JOHNSTOWN	Johnson Steel Street Rail Co.,Pattern St	0	2 0
HI-9	PEARL HARBOR	U.S. Nav. Base,Pearl Harbor,Berthing Wha	0	8 4	PA-271-I	JOHNSTOWN	Johnson Steel Street Rail Co.,Rolling Mi	0	2 0
HI-18	PEARL HARBOR	U.S. Nav. Base,Pearl Harbor,Sm. Craft Be	0	3 3	PA-271-E	JOHNSTOWN	Johnson Steel Street Rail Co.,Steel Cast	0	3 0
HI-14	PEARL HARBOR	U.S. Nav. Base,Pearl Harbor,Small Berthi	0	6 3	PA-271-H	JOHNSTOWN	Johnson Steel Street Rail Co.,Upper Shop	0	3 0
HI-15	PEARL HARBOR	U.S. Naval Base,Pearl Harbor,Drydock No.	0	6 2	PA-271	JOHNSTOWN	Johnson Steel Street Rail Company	0	7 135
IA-37	BEVINGTON	Bevington Bridge	0	18 10	PA-251	NEW FLORENCE	Laurel Hill Furnace	0	2 2
IA-34-B	OTTUMWA	Morrell,John & Company Meat Packing Plan	0	12 0	PA-298	LEISENRING	Leisenring,Town of	0	1 4
IA-34-A	OTTUMWA	Morrell,John & Company Meat Packing Plan	0	12 0	PA-298-A	LEISENRING	Leisenring,Town of,Company Store	0	3 0
IA-34	OTTUMWA	Morrell,John,& Company Meat Packing Plan	2	8 39	PA-298-B	LEISENRING	Leisenring,Town of,Manager's House No. 1	0	2 0
IA-34-C	OTTUMWA	Morrell,John,& Company Meat Packing Plan	0	15 0	PA-298-C	LEISENRING	Leisenring,Town of,Manager's House No. 2	0	1 0
IA-32	CLAY TOWNSHIP	Supple Ford Bridge	0	10 10	PA-294	YUKON	Magee Mine	0	3 3
IL-109	LITTLE YORK VIC	Campbell Bridge	0	10 12	PA-294-A	YUKON	Magee Mine,Hoist House	0	4 0
IL-105	CHICAGO	Commonwealth Elec.Co.,Fisk St. Elec.Gene	0	20 5	PA-294-B	YUKON	Magee Mine,Powerhouse	0	3 0
IL-114	CHICAGO	Commonwth Edison Co.,Crawford Elec. Gen	0	12 3	PA-289	MAMMOTH	Mammoth,Town of	0	8 4
IL-23-A	LASALLE	Illinois Central Railroad,Freight Depot	3	9 3	PA-183	SCRANTON	Marvine Colliery	0	10 23
IL-23-B	LASALLE	Illinois Central Railroad,Freight Depot	0	6 0	PA-183-B	SCRANTON	Marvine Colliery, Heavy Rail Scales Offi	0	5 4
IL-23-C	LASALLE	Illinois Central Railroad,Passenger Depo	0	1 0	PA-183-A	SCRANTON	Marvine Colliery,Boiler House No. 2	0	11 7
IL-23-D	LASALLE	Illinois Central Railroad,Passenger Depo	0	10 0	PA-183-C	SCRANTON	Marvine Colliery,Breaker No. 2	0	24 6
IL-23-E	LASALLE	Illinois Central Railroad,Sand Tank	0	1 0	PA-183-D	SCRANTON	Marvine Colliery,Dorr Thickener Plant No	0	5 4
IL-45	LEMONT	Illinois Pure Aluminum Company	0	14 2	PA-183-G	SCRANTON	Marvine Colliery,Fan House No. 2	0	0 2
IL-24	OTTAWA VIC.	Mill "C" Complex	1	3 3	PA-183-E	SCRANTON	Marvine Colliery,Oil House	0	6 4
IL-24-B	OTTAWA VIC.	Mill "C" Complex,Sand Draining & Drying	3	3 0	PA-183-F	SCRANTON	Marvine Colliery,Shed	0	3 3
IL-24-A	OTTAWA VIC.	Mill "C" Complex,Sand Sorting Building	7	16 0	PA-183-H	SCRANTON	Marvine Colliery,Washery Pump	0	0 2
IN-60	YOUNG AMERICA V	Attica Bridge	0	15 4	PA-253	MONESSEN	Monessen Steel Works	0	3 2
MA-84	SAUGUS	Saugus River Drawbridge	0	45 7	PA-110	SALTSBURG	Patterson Milling Co.,Feed Mill	0	14 1
MI-43	CAMDEN	Cambria Road Bridge	0	14 3	PA-291	LATROBE	Pearce Manufacturing Company	0	1 3
MI-22	LITCHFIELD VIC.	Cronk Road Bridge	0	11 3	PA-291-B	LATROBE	Pearce Manufacturing Company,Building H	0	1 0
MI-33	MARSHALL	F Drive North Bridge	0	14 3	PA-291-A	LATROBE	Pearce Manufacturing Company,Factory A	0	2 0
MI-20	SUMNER VIC.	Ferris Road Bridge	0	9 2	PA-291-D	LATROBE	Pearce Manufacturing Company,Long Garage	0	1 0
MI-44	OSHTEMO VIC.	Morton's Highway Crossing	0	13 7	PA-291-E	LATROBE	Pearce Manufacturing Company,Small Garag	0	1 0
MN-55	RUSHFORD	Bridge No. 4900	0	38 7	PA-291-C	LATROBE	Pearce Manufacturing Company,Wool Stora	0	1 0
MN-54	ELK RIVER	Elk River Bridge	0	8 21	PA-252	PENN BOROUGH	Penn Borough Freight Depot	0	1 1
MO-67	SPRINGFIELD VIC	Bridge No. 2415	0	9 23	PA-286	PENNA. FURNACE	Pennsylvania Furnace	0	2 3
MO-69	RITCHEY VIC.	Clear Creek Bridge	0	9 6	PA-286-A	PENNA. FURNACE	Pennsylvania Furnace,Ironmaster's Mansio	0	4 0

HAER TRANSMITTALS (cont.)

HAER No.	CITY-TOWN	Record Name	DRW	PHO DATA	HAER No.	CITY-TOWN	Record Name	DRW	PHO DATA
PA-286-B	PENNA. FURNACE	Pennsylvania Furnace,Ironmaster's Privy	0	2 0	WA-20-C	NACHES VIC.	Tieton Dam,Spillway & Drum Gates	0	7 0
PA-286-C	PENNA. FURNACE	Pennsylvania Furnace,Worker Housing	0	3 0	WA-20-B	NACHES VIC.	Tieton Dam,Valve House	0	4 0
PA-297	SCOTTDALE	Scottdale Iron & Steel Works	0	1 4	WA-34	BREMERTON	U.S.S. Hornet	0	1302/WI-53
PA-292	STANDARD SHAFT	Standard Shaft,Town of	0	5 4	THIENSVILLE	Green Bay Road Bridge		0	7 7
PA-290	STANDARD	Standard,Town of	0	7 3	WI-62	APPLETON	Western Elevator Company	6	25 10
PA-250	VANDERGRIFT	Vandergrift Railroad Station	0	1 2	WI-56	WHITING	Whiting-Plover Paper Mill	0	11 20
TX-22-A	DALLAS	A.,T. & SF Control Tower 19,Maintenance Sh	0	4 2	WI-56-A	WHITING	Whiting-Plover Paper Mill,Building No. 1	0	1 0
TX-22-B	DALLAS	A.,T. & SF Control Tower 19,Tool Shed	0	4 2	WI-56-G	WHITING	Whiting-Plover Paper Mill,Building No. 1	0	1 0
TX-22	DALLAS	Atchison,Topeka & Santa Fe Control Tower	3	13 8	WI-56-B	WHITING	Whiting-Plover Paper Mill,Building No. 2	0	2 0
TX-17	VOSS VIC.	WPA Bridge No. 233	0	2 6	WI-56-C	WHITING	Whiting-Plover Paper Mill,Building No. 3	0	2 0
UT-62-A	OGDEN	Odgen River Bridge,Odgen River Bridge Si	0	4 11	WI-56-D	WHITING	Whiting-Plover Paper Mill,Building No. 4	0	2 0
UT-51	OGDEN CANYON	Ogden Canyon Conduit	0	29 31	WI-56-E	WHITING	Whiting-Plover Paper Mill,Building No. 5	0	3 0
UT-62	OGDEN	Ogden River Bridge	0	14 13	WI-56-F	WHITING	Whiting-Plover Paper Mill,Building No. 6	0	1 0
UT-61	PROVO	Provo River Bridge	0	12 12	WI-60	WAGNER	Wisconsin-Michigan Railroad Bridge	0	24 34
VA-52	QUICKSBURG VIC.	Shenandoah River Bridge	0	19 17	WV-49	MILLVILLE	Standard Lime & Stone Quarry	0	21 29
VT-19	COVENTRY	Black River Bridge	0	10 9	WV-49-N	MILLVILLE	Standard Lime & Stone Quarry,Blacksmith	0	1 1
VT-23-A	BURLINGTON VICI	Burlington Woolen Mill Company,Dam	0	10 12	WV-49-R	MILLVILLE	Standard Lime & Stone Quarry,Electricity	0	0 1
VT-17	CAMBRIDGE	Jeffersonville Bridge	0	16 8	WV-49-P	MILLVILLE	Standard Lime & Stone Quarry,Experiment	0	2 1
VT-22	ESSEX	North Williston Bridge	0	14 6	WV-49-J	MILLVILLE	Standard Lime & Stone Quarry,Instrument	0	0 1
VT-15	TROY	River Road Bridge	0	16 12	WV-49-C	MILLVILLE	Standard Lime & Stone Quarry,Kilns No. 1	0	5 2
WA-69-A	NAPAVINE VIC.	Bonneville Power Administration Chehalis	0	14 15	WV-49-F	MILLVILLE	Standard Lime & Stone Quarry,Kilns No. 4	0	5 2
WA-65	RANDLE	Cispus Valley Bridge	0	6 4	WV-49-Q	MILLVILLE	Standard Lime & Stone Quarry,Laboratory	0	2 1
WA-114-A	YAKIMA VIC.	Congdon Canal,Fish Screen	0	15 13	WV-49-O	MILLVILLE	Standard Lime & Stone Quarry,Machine Sho	0	4 1
WA-82	WELLPINIT VIC.	Little Falls Tie Line Towers	0	16 20	WV-49-M	MILLVILLE	Standard Lime & Stone Quarry,Main Supply	0	3 1
WA-84	NINE MILE FALLS	Nine Mile Hydroelectric Development	0	6 41	WV-49-S	MILLVILLE	Standard Lime & Stone Quarry,Office	0	1 1
WA-84-C	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	9 0	WV-49-L	MILLVILLE	Standard Lime & Stone Quarry,Oil & Clean	0	1 1
WA-84-L	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	2 0	WV-49-G	MILLVILLE	Standard Lime & Stone Quarry,Pebble Lime	0	0 1
WA-84-D	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	8 0	WV-49-A	MILLVILLE	Standard Lime & Stone Quarry,Primary Cru	0	3 1
WA-84-E	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	9 0	WV-49-D	MILLVILLE	Standard Lime & Stone Quarry,Raymond Mil	0	3 2
WA-84-F	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	4 0	WV-49-I	MILLVILLE	Standard Lime & Stone Quarry,Reservoir	0	2 1
WA-84-G	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	4 0	WV-49-E	MILLVILLE	Standard Lime & Stone Quarry,Rock Wool P	0	5 2
WA-84-H	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	2 0	WV-49-B	MILLVILLE	Standard Lime & Stone Quarry,Secondary C	0	4 2
WA-84-I	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	2 0	WV-49-K	MILLVILLE	Standard Lime & Stone Quarry,Storage & S	0	1 1
WA-84-J	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	4 0	WV-49-H	MILLVILLE	Standard Lime & Stone Quarry,Tanks & Set	0	10 2
WA-84-K	NINE MILE FALLS	Nine Mile Hydroelectric Development,Cott	0	2 0	WV-49-T	MILLVILLE	Standard Lime & Stone Quarry,Worker's Ho	0	3 4
WA-84-A	NINE MILE FALLS	Nine Mile Hydroelectric Development,Dam	0	3 0	WV-49-U	MILLVILLE	Standard Lime & Stone Quarry,Worker's Ho	0	2 4
WA-84-B	NINE MILE FALLS	Nine Mile Hydroelectric Development,Powe	0	19 0	WV-49-V	MILLVILLE	Standard Lime & Stone Quarry,Worker's Ho	0	2 4
WA-18	GLACIER VIC.	Nooksack Falls Hydroelectric Plant	6	42 32	WV-49-W	MILLVILLE	Standard Lime & Stone Quarry,Worker's Ho	0	1 3
WA-83	TACOMA	North Twenty-First Street Bridge	0	20 10	WY-52	SHERIDAN VIC.	Twin Lakes Reservoir No. 1	0	6 10
WA-20	NACHES VIC.	Tieton Dam	0	34 10	WY-52-A	SHERIDAN VIC.	Twin Lakes Reservoir No. 1,Dam Structure	0	4 1
WA-20-D	NACHES VIC.	Tieton Dam,Construction Camp Warehouse-S	0	9 0	WY-52-B	SHERIDAN VIC.	Twin Lakes Reservoir No. 1,Valve Control	0	3 1
WA-20-A	NACHES VIC.	Tieton Dam,Gatehouse	0	2 0	WY-52-C	SHERIDAN VIC.	Twin Lakes Reservoir No.1,Intake & Outle	0	5 2

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