HISTORIC STRUCTURE REPORT

Architectural Data Section - Volume I of II
Title I Services - Advanced Planning

LINCOLN HOME

Analysis
Restoration

Lot 8 - Block 10
Lincoln Home National Historic Site
Springfield, Illinois

Work Directive No. 5-0005-78-06
Basic Agreement No. CX-2000-5-0005

Ferry and Henderson Architects, Inc.
1320 South State Street
Springfield, Illinois 62704

20 February 1984
The Historic Structure Report, Architectural Data Section, is divided into two volumes. Volume One contains Historical & Investigative Information and Volume Two contains Previous & Proposed Restoration.
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INTRODUCTION

The Lincoln Home National Historic Site was established in 1972 to further enable the visitor to more fully understand and appreciate Abraham Lincoln. This requires that the daily context in which Abraham Lincoln lived and developed as a father, friend and neighbor be made part of this educational experience.¹

The Lincoln Home is the most significant structure in the National Historic Site and the focal point of all activity. The preservation of the Lincoln Home is of primary importance for continued use as a national historic structure.

For assessment of the restoration required to keep the Lincoln Home a safe, stable, historic structure, the National Park Service commissioned Ferry and Henderson Architects, Inc. of Springfield, Illinois to prepare an Architectural Data Section of the Historic Structure Report. The scope of work requires documentation of historic development, detailed documentation of the existing as-is conditions, evaluation of existing conditions, recommendations for the historic restoration, and recommendations for the restoration of the structure to meet present day uses as defined by the National Park Service.²

¹Master Plan, Lincoln Home, National Historic Site, Illinois.
I. PRELIMINARY SURVEYS

A. Historical Data
   1. Historical Maps
      a. City of Springfield, Sangamon County.
         This map shows three improvements to Lot 8, Block 10; the house at the west end, an outbuilding at the southeast corner, and the southern portion of a structure on Lot 7.

Partial reproduction from City of Springfield, Sangamon County, 1854 Map, (courtesy of Illinois State Historical Library).
HISTORICAL BASE MAP...1860
PROPOSED LINCOLN HOME NATIONAL HISTORIC SITE

Reproduction from
MASTER PLAN - Lincoln
Home National Historic
Site/Illinois -
2. Sanborn Maps (courtesy of Illinois State Historical Library). Key to maps on page 8.

a. 1884 Map

Note: Kitchen addition to the east side of Lincoln Home

b. 1890 Map

Note: Outbuildings on east end of the lot reduced to a single structure
c. 1896 Map

Note: Porch addition to north side of Lincoln Home at east end.

d. 1917 Map

Note: Northeast porch shown wider than in 1896 Map.
Note: Kitchen and porch addition removed
Key to Sanborn Maps
3. Panoramas

Three panoramas were drawn in the late Nineteenth Century, depicting the four-block Lincoln Home National Historic Site from different points of view. (Panoramas courtesy of the Illinois State Historical Library).
shown at the east end of the lot.
accurate; however, only one outbuilding is
south east. Lincoln home is shown reasonably
field (including Lincoln home) from the
graph company's an aerial view of spring-
mature by A. Ruger of the "Chicago Litho-
The first panorama (circa 1867) drawn from

A. Ruger Panorama.
3. Panoramas

Three panoramas were drawn in the late Nineteenth Century, depicting the four-block Lincoln Home National Historic Site from different points of view. (Panoramas courtesy of the Illinois State Historical Library).
a. Ruger Panorama

The first panorama (Circa 1867) "drawn from nature" by A. Ruger of the "Chicago Lithograph Company" is an aerial view of Springfield (including Lincoln Home) from the southeast. Lincoln Home is shown reasonably accurate; however, only one outbuilding is shown at the east end of the lot.
b. Beck and Pauli Panorama

The second panorama by Beck and Pauli (Circa 1870) is also from the southeast but slightly more westward. Lincoln Home is shown inaccurately in that the eastern half of the building is one-story.
"Beck and Pauli" Panorama

Note: This panorama seems quite distorted, with large spaces between the buildings and noticeable errors in representation.
c. Augustus Koch Panorama

The third panorama (Circa 1875) by Augustus Koch is a view from the northeast. Lincoln Home is shown quite accurately and the out-buildings correspond with those shown on the 1884 Sanborn Map to some degree of closeness.
"Augustus Koch" Panorama

Note: The accuracy of this panorama, in general, is quite good in that it conforms closely with the 1884 Sanborn Map
4. Historic Photographs

The historic photographs are divided into two parts, exterior and interior. More emphasis is placed on the exterior photographs since this information is directly related to this Report.

Historic illustrations, sketches and lithographs are included with the photographs and are noted as such.

This selection of photographs is not the entire known photographs of Lincoln Home but give a good understanding of the existing conditions at the time.

a. Exterior Historic Photographs

The photographs are in chronological order. A description of each photograph is given on the preceding page.

The earliest known photograph is by J. A. Whipple in 1860.
1860
Lincoln Home
View from southwest
by J. A. Whipple
courtesy of the Illinois State Journal-Register

Mr. Lincoln with Willie and Tad inside the fence.
Blurred figure outside the fence is a playmate
of the children, Isaac R. Diller.
Summer 1860
Lincoln Home
View from west-northwest
photographer unknown
courtesy of the Illinois State Journal-Register

Taken at the time of the Republican Rally.
1860
Lincoln Home
View from southwest
by J. A. Whipple
courtesy of the Illinois State Journal-Register

Mr. Lincoln and Tad inside the fence.
Circa 1863
Engraving of Lincoln Home
View from southwest
by N. Orr Company
courtesy of the Library of Congress
FORMER RESIDENCE OF ABRAHAM LINCOLN, SPRINGFIELD, ILL.
Circa 1863
Engraving of Lincoln Home
View from southwest
from Holland's "Life of Abraham Lincoln"
courtesy of the Illinois State Library
MR. LINCOLN'S RESIDENCE, AT SPRINGFIELD, ILLS.
Circa 1864
Lincoln Home
View from west-southwest

courtesy of the Illinois State Historical Library
PRESIDENT LINCOLN'S HOME, Springfield, Ills.
4 May 1865
Lincoln Home
View from southwest
Osborn Oldroyd Collection
courtesy of the National Park Service
April 1865
Lincoln Home
View from southwest

courtesy of the Lincoln Life Foundation,
Fort Wayne, Indiana
4 May 1865
Stereopticon Print of Lincoln Home
View from southwest
Osborn Oldroyd Collection
courtesy of the National Park Service
1865
Lincoln Home
View from east
Ridgeway Glover Stereopticon
courtesy of the Illinois State Historical Library
4 May 1865
Lincoln Home
View from southwest
courtesy of the Library of Congress
4 May 1865
Lincoln Home
View from southwest

courtesy of the Library of Congress
May 1865
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
May 1865
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
May 1865
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
4 May 1865
Lincoln Home
View from west-southwest

courtesy of the Illinois State Historical Library
4 May 1865
Lincoln Home
Photograph of "Old Bob" and the Reverend Henry Brown in front of the Lincoln Home
courtesy of the National Park Service
Note construction of the fence, wall and curbing
Circa 1866
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
Circa 1868
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
Circa 1868
Lincoln Home
View from south-southwest

courtesy of the Illinois State Historical Library
1883
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library
Circa 1888
Lincoln Home
View from southwest
Osborn Oldroyd Collection
courtesy of the National Park Service
Circa 1888
Lincoln Home
View from northwest
Osborn Oldroyd Collection
courtesy of the National Park Service
Circa 1889
Lincoln Home
View from southwest
from Springfield Illustrated, page 6
courtesy of the Illinois State Historical Library

Note: Wood fence and shed removed during the period between Circa 1888 photograph on page and Circa 1889 photograph on page.
Circa 1890
Lincoln Home
View from northwest

courtesy of the Illinois State Historical Library
Circa 1890
Lincoln Home
View from northwest
Lithograph from preceding photograph
courtesy of the Illinois State Historical Library
Circa 1890
Lincoln Home
View from southwest
Osborn Oldroyd Collection
courtesy of the National Park Service
Circa 1890
Lincoln Home
View from east-southeast

courtesy of the Illinois State Historical Library
Pre-1894
Lincoln Home
Photograph advertisement
courtesy of the Illinois State Historical Library
Piece of brick taken out of the wall in front of the house, when repaired November, 1883.

Piece of shingle taken from the roof in 1879.

Piece of the Elm Tree, in front of the residence, planted by Mr. Lincoln.

Piece of the Apple Tree in the back yard.

Piece of Lath from the dining room.

Piece of Joist taken from the dining room.

LINCOLN RESIDENCE—Springfield, Ill.

Having leased the former residence of Abraham Lincoln, and in repairing several of the rooms, I carefully saved the flooring, joist, lath, plaster and brick that were taken out and replaced by new. I also saved the branches trimmed from the apple tree in the back yard, and the tree in front of the residence, planted by Mr. Lincoln, and have placed a piece of each of the above articles, with the cut of the house, in this box, which will be a valuable relic from the home of Abraham Lincoln.

This box of relics will be sent free, by express, upon receipt of 75 cents.

Diagrams of Cardboard sheet containing relics as above described from the Lincoln Residence, and enclosed in a neat glass-covered case. Send free on receipt of 75 cents. Send orders to

O. H. OLDROYD,
Lincoln Residence, Springfield, Ill.
Circa 1890
Lincoln Home
View from south

courtesy of the Illinois State Historical Library

Note kitchen addition at rear
Date Unknown
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library

Note framed vestibule added to entry of the Lincoln Home
Date Unknown
Lincoln Home
View from west-southwest

courtesy of the Illinois State Historical Library

Note framed vestibule added to entry
Date Unknown
Lincoln Home
View from west-southwest

courtesy of the Illinois State Historical Library

Note awning over front (west) entry
Date Unknown
Lincoln Home
View from southwest

courtesy of the Illinois State Historical Library

Note awning added to entry of the Lincoln Home
THE LINCOLN HOME, CORNER EIGHTH AND JACKSON STREETS, SPRINGFIELD, ILL.

ABRAHAM LINCOLN AND HIS FAMILY OCCUPIED THIS HOUSE FROM MAY 2ND, 1844, UNTIL THE TIME OF THEIR DEPARTURE FOR WASHINGTON IN 1861. IN THIS HOUSE THREE OF HIS CHILDREN WERE BORN.
Date Unknown
Lincoln Home
View from south-southwest
Newspaper clipping with sketch and article
courtesy of the Illinois State Historical Library
The contribution of A. V. Arnold to The News on this anniversary is a picture from memory of the Lincoln home on South Eighth Street as it appeared in 1848, before it was remodeled by being raised a story. Biographers tell the story that the work of remodeling the house was done by order of Mrs. Lincoln during the absence of her husband who was out "riding the circuit." On his return the proprietor could hardly believe his eyes when he saw the transformation in his modest home. The incident appealed to the love of practical joking and so he strolled along the street regarding the structure with great curiosity. At last he met one of his neighbors, of whom he inquired, "Can you tell me whereabouts the widow Lincoln lives?" Just then, it is said, his wife appeared on the porch and told him to "quit his foolishness and come home." Whether this story is true or not, as the historians have told it, with all the embellishments, it is nevertheless true that the house was remodeled and the picture by Mr. Arnold, whose home was just across the street is a very faithful reproduction of it in the earlier years, when in Mr. Lincoln's moderate circumstances it was considered a very comfortable and commodious cottage.
4 May 1865
Lincoln Home
View from northwest

courtesy of the Illinois State Historical Library
4 May 1865
Lincoln Home
View from west

courtesy of the Illinois State Historical Library
4 May 1865
Lincoln Home
Photograph of "Old Bob" in front of the Lincoln Home
courtesy of the Illinois State Historical Library
Date Unknown
Lincoln Home
View from west-southwest

courtesy of the Illinois State Historical Library
b. Interior Historic Photographs

These photographs are in chronological order with a description on the preceding page.
1861
Lincoln Home
Front Parlor
sketch by "Leslie's" artist
courtesy of the Illinois State Historical Library
1861
Lincoln Home
Back Parlor
sketch by "Leslie's" artist
courtesy of the Illinois State Historical Library
PARLOR IN PRESIDENT LINCOLN'S HOUSE, AT SPRINGFIELD, ILLINOIS.
1861
Lincoln Home
Sitting Room
sketch by "Leslie's" artist
courtesy of the Illinois State Historical Library
Lincoln Home
Parlors
courtesy of the Illinois State Historical Library

Please note the deflection in the frame of doorway.
Pre-1918
Lincoln Home
Stairs in Entrance Hall
View from Front Parlor through Door into Entrance Hall

courtesy of the Illinois State Historical Library
Date Unknown
Lincoln Home
Back Parlor
View of Back Parlor from Front Parlor

courtesy of the Illinois State Historical Library
5. Historic Drawings

The historic drawings included in this section are all the available known existing drawings and sketches directly related to "Lincoln Home."

We are indebted to Mr. Connie Lelys of the Illinois Department of Conservation for his patience and assistance in the search for these documents within the Department of Conservation, the State Archives, and the Capital Development Board.
### Key to Abbreviations and Notations

**Index Number:** Year of drawing and chronological sequence by calendar date

**Agency Code:** Architect or Administration and Responsible Agency

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Note: Since the George W. Bullard Measured Drawings are the earliest known drawings of Lincoln Home, the First and Second Floor Plans have been enlarged on the following pages.
B. Physical Investigation

Photography, field measurement, fabric removal, X-ray analysis, paint/color analysis, observation and other research consist of the physical investigation of Lincoln Home begun in August of 1978.

The Lincoln Home has been well preserved, relative to other structures of the same age, due to its historical significance as having been the only house owned by President Abraham Lincoln. Even though the Lincoln Home is, for the most part, historically correct, physical investigation is required to understand the existing conditions in order to accurately restore and preserve the structure.
1. Measured Drawings

Detailed evaluation of the "As-Is" conditions of Lincoln Home by Ferry and Henderson Architects, Inc. and Ralph Hahn & Associates, Inc. Consulting and Design Engineers, Inc. produced the following drawings. (All original drawings have been photo-reduced 28.25%).

**Architectural**

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**Structural**

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**Mechanical**

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NORTH & WEST ELEVATIONS AND DETAILS
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SECTIONS A-A & B-B AND INTERIOR ELEVATIONS
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1st & 2nd FLOOR PLAN
SEE SHEET NO. 17
BASEMENT PLAN
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1st & 2nd FLOOR PLANS
SEE SHEET NO. 19
2. Fabric Investigation

The removal of fabric in the Lincoln Home was necessary to investigate the existing conditions without damage to the structure. Several areas were selected for baseboard and trim removal, documentation by measurements and photographs, replacement and touch-up refinishing to match existing conditions.

The Fabric Investigation photographs were taken by Robert Swenson.
LOCATIONS OF FABRIC INVESTIGATION

FIRST FLOOR PLAN

SECOND FLOOR PLAN

Refer to following page for index of locations of fabric investigation
## Index

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NOTE:
1) wood blocks (shims) on stud face for furring baseboard
2) window weight laying on sill plate (retained by L.H.N.H.S. staff)
3) studs bear directly on sill plate - do not appear to be morticed and tenoned into sill
4) exterior sheathing is subsheathing ("boxing") + 3/4 inch thick boards
5) no nogging in voids.
NOTE:
(By using a mirror, viewing up wall between studs)
1) vertically sawn studs
2) stains due to water damage
3) end of Second Floor joist extending into wall cavity (typical balloon framing detail)
Mrs. Lincoln's Bedroom 202 - South Wall, Between West Wall and Door 202-D2

Partial Floor Plan

MRS. LINCOLN'S BEDROOM

202

MR. LINCOLN'S BEDROOM

201
NOTE:
1) joists approximately 3" from west wall
2) joists spanning north/south in Mrs. Lincoln's Bedroom are single (instead of double); see shadow line
3) newer joists were added to original joists across to south, Robert's Bedroom, 207
4) small 2 x 4 ledges attached to lower west side of joists to north through Mrs. Lincoln's Bedroom

NOTE:
By using a mirror, this allows a view (between the joist looking north) of the original 2 x 6 ceiling/attic joists
NOTE:
1) wiring for alarm system
2) joists in Mr. Lincoln's Bedroom spanning east/west
3) east/west joists and studs bearing on beam over Doors 101-D1 at First Floor
4) larger of east/west joists appear original
5) joists added later are located next to each larger joist and in between the larger joist
6) newer joists are nailed to older joists or bear on beam or blocking.
NOTE:
1) subfloor from Mrs. Lincoln's Bedroom extends over void between studs (covered with plaster debris)
2) discontinuous 2 x 2 attached to side of stud at door frame
3) underside of wall plate + 24" above floor line (visible with mirror)

NOTE:
1) studs with original joists are "let" in on the south side - typical
2) newer joists are on the right side - typical
3) newest joists in center between studs bearing on blocking on top of beam over Doors 101-D1
NOTE:
1) stud notched for joist - typical balloon frame detail
2) new joist in center between studs
3) stud turned sideways
4) corner stud larger than typical ones and is not continuous
Mrs. Lincoln's Bedroom 202 - North Wall, Between West Wall and Chimney

NOTE:
1) pieces of original siding or boxing removed from inside wall
2) decayed 4 x 4 next to window
3) discontinuous stud
NOTE:
1) 4 x 4 stud along each side of window (same at south window of Robert's Bedroom, 207)
2) clapboards directly on studs with no "boxing"
3) strip below window sill apron is paper painted brown
4) air infiltration through wall very noticeable

NOTE:
1) newer joists next to stud
2) tip end of lower 2 x 6 joists with notched ends visible - bearing on wall plate
NOTE:
(By using a mirror, looking back south between floor joists)
1) bright face (spot) in photograph is the sloped cut on 2 x 6 former attic joist
2) lines on joist to left in photo seem to be dusting through the floor
MR. LINCOLN'S BEDROOM

P1
P4
P7
P5
P2
P8
P3
P6

PARTIAL FLOOR PLAN

NOTE:
1) subfloor continuous through wall (between studs) from Mr. Lincoln's Bedroom to Stair Hall
2) studs bear on subfloor
3) plaster debris was found in between studs (still visible in two stud spaces) up 2 to 3 feet above floor
NOTE:
1) Closeup of corner
NOTE:
(By using a mirror, view up stud space next to door opening)
1) sloping member which represents line of original roof
NOTE:
(By using a mirror, view up third stud space - over from door opening)
1) sloping member

NOTE:
(By using a mirror, view up stud space at southwest corner)
1) sloping member
NOTE:
1) Large studs with furring strip backing for baseboards
2) "Boxing" subsheathing visible
3) No brick "nogging"
4) Continuous top plate (visible with mirror) at +24" above floor line which is approximately the window apron height

NOTE:
1) Closeup of studs and joists
NOTE:
1) floor joists in Mr. Lincoln's Bedroom visible
2) original joists let into studs - typical balloon framing detail
3) Additional joists nailed to original joists or bearing on blocking added between the studs
NOTE:
1) brick "nogging" starting ± 8" above floor on up to second floor
2) the bottom 2 or 3 courses may have been removed when wood sill plates were replaced in the 1950's (no record of brick "nogging" at that time)
3) baseboard extension into south wall was cut off during Fabric Removal in order to reinstall baseboard (LHNHS staff has walnut piece)
NOTE:
1) larger size stud visible
   (By using a mirror, view up stud space)
2) brick "nogging" visible + 8" above sill plate
Robert Lincoln's Bedroom 207 - South Wall - East Wall to West Wall

ROBERT LINCOLN'S BEDROOM

207

P2
P3
P4
P1
P5
P6
P8
P9
P10
P11
P13
P12

PARTIAL FLOOR PLAN

5 0 5

NOTE:
1) floor joists run north/south and bear on wall plate
2) window weights not in use - different style from ones found in Front Parlor on First Floor (LHNHS staff has the weights)
NOTE:
1) additional joists visible
2) larger stud (4 x 6) at corner

NOTE:
1) additional joists visible
2) studs and joists bear on wall plate
NOTE:
1) vertical saw marks on studs
2) 4 x 4 stud next to window
NOTE:
1) 4 x 4 stud next to window
2) additional joists visible next to older ones
3) paper backing on inside face of clapboards
NOTE:
1) newer clapboard siding (light color of inside face)
NOTE:
1) revision of studs (three) when door opening between Robert's Bedroom and Guest/Boys Bedroom was moved north
2) all studs are not continuous
3) one stud turned sideways (lines of plaster lath and plaster visible)
NOTE:
1) in the void between studs is a notched 2 x 8
   turned sideways
2) discontinuity of studs
NOTE:
1) joist bearing from Guest/Boys Bedroom not well defined - exact condition undetermined
NOTE:
1) vertically sawn baseboard
NOTE:
1) newer joists "let" into studs which bear on wall plate
2) older 2 x 6 ceiling joists are visible to north
NOTE:
1) two large studs are at intersection of this wall and the north/south wall between Mrs. Lincoln's Bedroom and Maid's Bedroom/Sewing Room
2) new 2 x 9 and old 2 x 6 joists visible to north
3) 2 x 9 joists only visible to south
NOTE:
(East of Door 203-D1, using a mirror, viewing up stud space)
1) stud notched for joist
2) curved line in mirror is a crack in the mirror
NOTE:
1) Closeup of northwest corner showing plaster debris
NOTE:
1) space between studs filled with plaster debris - similar to south wall of Mr. Lincoln's Bedroom.

NOTE:
1) space between studs cleared of debris
NOTE:
1) subfloor continuous under north wall - similar to southwest wall of Mr. Lincoln's Bedroom
2) studs bear on subfloor
3) space above entry door inset below
4) furring strips on studs
5) plaster debris cleared from between studs - debris was up 2 to 3 feet above floor - similar to southwest wall of Mr. Lincoln's Bedroom

(By use of a mirror)
6) sloped member - similar to southwest wall of Mr. Lincoln's Bedroom
Note:
1) Brick "nogging" between studs
2) Bricks on edge, in smooth trowelled lime mortar and extend down to first floor
3) Additional joists next to original joists
NOTE:
1) additional joists next to and in between original joists
NOTE:
1) quality mortar joints on inside face of "nogging"
2) joists "let" into side of studs
NOTE:
1) Sub-baseboard visible - only location this detail found (both sides of Stair Hall)
NOTE:
1) debris in between studs - similar to north wall of Guest/Boys Bedroom, west end
2) studs bear on subfloor
3) no sub-baseboard found
4) furring on studs
NOTE:
1) riser face at top step is a two-piece member and extends into the wall (possibly nailed to stud)
2) baseboard bottom edge is dadoed into stair tread, finish flooring
3) barely visible down through hole is a diagonal member "let" into studs (unable to determine function) - possibly a member on which stair tread framing members could bear as stair curves down and around
NOTE:
1) steel plates on each side of wood beam
2) bolts at ±1'-7" o.c. hold the steel plates to the wood beam
3) steel plates taper to larger depth at center of beam
NOTE:
1) use of a square steel plate as a washer between the nut and the tapered steel plate
2) wood post (column) is tenoned into beam (morticed) with a wood peg which is barely visible
3) wood beam continues over post to the south for several inches
NOTE:
1) wood post (column) is a soft wood - not oak
2) clear view of tenoned column/morticed beam and peg
3) wood beam does not continue over post to north
3. Basement/Crawl Space Investigation

Investigation of existing conditions in the basement and crawl space produced the following photographs.

Location and direction of each photograph is recorded on a Partial Floor Plan for reader clarification.
NOTE:
1) arch form of the "original" brick hearth support

NOTE:
1) arch brick hearth support removed
2) joist and header with mortice/tenon and peg connection still visible
NOTE:
1) serious crack in beam below entry door
2) at this time, water infiltration is not a problem
3) concrete under entry steps
4) hewn beam supported by newer beam below
NOTE:
1) steel column supports newer wood beam with original beam above
2) joists run east/west
3) joists notched into hewn beam
4) north/south beam and east/west beam are hewn
5) joists under Front Parlor run north/south and are notched into beam
6) large width floor boards (subflooring) appear original
NOTE:
1) bottom of newel post visible
2) newel post "let" into joist to north
3) similar square hole in floor to south of other hole

(photograph on right side of page taken up through hole at underside of stairs)
4) bottom edges of each tread and riser are visible
5) beyond is underneath side of framing for stair winders
NOTE:
(View up at north/south header of former opening)
1) header 6'- 11-3/4" to east basement wall
2) mortice/tenon and peg connection (typical of original framing indicating stairs to basement or access panel part of original house)
3) notch on both ends of header (appears to be early modification but reason not apparent)
Basement - East Wall - North End

Partial Floor Plan - Basement

5 0 5 10
NOTE:
1) original brick has been covered with "gunite - spray-on"
2) alarm systems layout on wall
NOTE:
(above left)
1) original floor joist connection to newer sill plate poorly done - reason for added support from extra wood beam and steel column

(above)
2) "overlap" joint in sill plate visible
NOTE:
1) intersection of north/south sill plate and east/west beam
2) beam notched to fit into slot in sill plate
3) ledger is attached to sill plate - may have been bearing for original stairs
4) sill plate is hewn
NOTE:
(above left)
1) original north/south 8" x 8" hewn sill plate
2) east/west sill plate (covered by "gunite");
   not original - circular sawn; added in 1950's
3) subfloor is not the same as on north side of house

(above)
4) sill plate not original - circular sawn
5) wood members under chimney masonry
NOTE:
1) both sill plates are not original
2) notched sill plates for joist bearing

NOTE:
1) east/west sill plate is under south wall of Entrance Hall
2) sill plate hewn
3) extra small joist between regular joists
NOTE:
(above)
1) sill plates are not original
2) original subfloor members - vertically sawn
3) ledger at left on north/south sill plate

(above right)
4) sill beam above window not original
5) circular saw marks

(right)
6) tenon and peg of hearth support header visible
7) large subfloor boards
NOTE:
1) large steel post supports new beam under joist ends along main beam running east/west
2) pilaster under entry at night
3) wing wall under south wall of Entrance Hall beyond
NOTE:
1) ± 14" subflooring
2) additional subflooring seen through cracks
3) large subflooring vertically sawn

NOTE:
1) original hewn beam under north wall of Entrance Hall
2) original hewn joists deteriorated
3) joist ends supported by new beam and column
NOTE:
(Looking south at east/west beam)
1) notch cut into side of beam for a wood hanger - similar to detail at back stairs

NOTE:
(Looking at east/west header of former opening in floor)
1) 1 x 4 vertical member (now cut off at bottom of joist) let into side of joist
NOTE:
1) original hewn beam and joists
2) notch in bottom of beam for pipe
NOTE:
(View above support beam to north sill plate)
1) studs visible in gap between top of sill plate and subfloor
2) joists notched into sill plate - same joists notched into ledger on south end

NOTE:
1) old and new joists
2) new flooring ± 1975
NOTE:
(View to south along west wall)
1) complete, straight joint in hewn sill plate running east/west on center wall
2) joists are double
3) new flooring + 1975

NOTE:
(View to east, along center wall, north side)
1) joists notched and bearing on ledger nailed to sill plate
2) some original joists with new members nailed to side of original
3) new flooring visible
NOTE:
(East/west center wall at opening, west side)
1) hewn beam with notch for joist
2) beam and joist deteriorating
3) cut nails extending down through floor above

NOTE:
(Under kitchen, looking north at east/west center wall - just east of opening)
1) complete joint in sill plate
2) to west of joist over opening, sill plate badly deteriorated
NOTE:
(Looking west along south side of east/west center wall)
1) large gaps between joist ends and sill plate
NOTE:
(Looking across joists to southwest)
1) Circular sawn marks on joists - under kitchen area are the only joists in basement/crawl space that are circular sawn.

NOTE:
1) Cut out/fill in area below back stair landing.
NOTE:
(Looking due west)
1) outline of former brick foundation wall
2) brick foundation wall ends approximately two feet further east of where it stops in photograph
NOTE:
1) old brick foundation wall only four courses deep
2) old foundation wall toothed into main basement wall running north/south
4. Attic Investigation

Investigation of existing conditions in the attic produced the following photographs.

Location and direction of each photograph is recorded on a Partial Floor Plan for reader clarification.
NOTE:
1) back side of exterior siding
2) insulation brushed away to expose lath and plaster ceiling
NOTE:
1) closeup of rafter sill plate
2) insulation on top of ceiling and between rafters
NOTE:
1) closeup of rafter sill plate
2) lath strip on rafter to hold up insulation
5. X-Ray Analysis

In July 1979 and in April 1980, X-Ray Examinations were performed on the Lincoln Home to non-destructively determine concealed existing conditions.

The firm of David McLaren Hart and Associates of Boston, Massachusetts conducted the X-Ray Examinations and Analysis. Their Report is included in the Appendix, Section C.

The following pages represent a proposed method of presenting the X-Rays, Report, photographs and other pertinent data. The originals would be on 22" x 36" mylar sheets. (The sheets on the following pages are reduced 25%.)
X-RAY ANALYSIS

X-RAY 046  X-RAY 047  X-RAY 048

P.F.P. - BOYS/GUEST BEDROOM, 208

DESCRIPTION

Guest/Boys Bedroom, 208  Sheet No. 3
X-RAY ANALYSIS

X-RAY OSE

X-RAY O56

Guest/Boys Bedroom, 208

Sheet No. 6
X-RAY ANALYSIS

X-RAY 108
X-RAY 110
X-RAY 109

PHOTOGRAPH

Front Parlor, 101

Sheet No. 23

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X-RAY 140

X-RAY 137

X-RAY 138

X-RAY 141

X-RAY 139

PHOTOGRAPH

R.C.P. - BETWEEN PARLORS 101 & 102

PHOTOGRAPH

PHOTOGRAPH

Front Parlor, 101 and Back Parlor, 102
X-RAY ANALYSIS

X-RAY 02B  X-RAY 031  X-RAY 030  X-RAY 029

Sheet No. 29
6. Paint Analysis

Research for the historic paint and color of the Lincoln Home was conducted at two different times.

In June 1976, a paint study was conducted on the exterior of the Lincoln Home by Richard Wolfe prior to the Exterior Restoration Work in the Fall of 1976 and in the Spring of 1977. Refer to the Appendix, Section A for a copy of this study.

In August 1978, a paint study was performed on the interior of the Lincoln Home by Frank Welsh. Refer to the Appendix, Section B for a copy of this study.
7. Photographs

Interior and Exterior photographs have been taken to visually record the existing conditions at the Lincoln Home.

a. Interior Photographs

The Interior photographs were taken by Bill Hagen. Photographs from various angles in the same room are needed to ensure all areas of the room are recorded.

A key to the location and direction of each photograph is given in the First and Second Floor Plans on the following pages.
Store Room 103 - View to the Southwest
Store Room 103 - View to the Southeast
Store Room 103 - View to the Northeast
East Porch 104 - South Wall
East Porch 104 - West Wall
East Porch 104 - North Wall
South Porch 106 - View to the Northwest
South Porch 106 - View to the Northwest
South Porch 106 - North Wall
Mrs. Lincoln's Kitchen 105 - South Elevation
Mrs. Lincoln's Kitchen 105 - West Elevation
Mrs. Lincoln's Kitchen 105 - North Elevation
Mrs. Lincoln's Kitchen 105 - East Elevation
Mrs. Lincoln's Kitchen 105 - View to the Southwest
Dining Room 107 - West Elevation
Dining Room 107 - North Elevation
Dining Room 107 - East Elevation
Dining Room 107 - View to the Southeast
Dining Room 107 - View to the Southwest
Dining Room 107 - View to the Northeast
Back Parlor 102 - South Elevation
Back Parlor 102 - West Elevation
Back Parlor 102 - North Elevation
Back Parlor 102 - East Elevation
Back Parlor 102 - View to the Northwest
Back Parlor 102 - View to the Southwest
Back Parlor 102 - View to the Northeast
Front Parlor 101 - South Elevation
Front Parlor 101 - West Elevation
Front Parlor 101 - View to the Northwest
Front Parlor 101 - View to the Southwest
Front Parlor 101 - View to the Northeast
Entrance Hall 100 - View to the West
Entrance Hall 100 - View to the Southwest
Entrance Hall 100 - West Elevation
Entrance Hall 100 - View to the Southeast
Entrance Hall 100 - View to the South
Entrance Hall 100 - View to the North
Sitting Room 108 - South Elevation
Sitting Room 108 - North Elevation
Sitting Room 108 - East Elevation
Sitting Room 108 - View to the Southwest
Sitting Room 108 - View to the Northeast
Closet 109 - West Elevation
Stair Hall 200 - View to the West (down)
Stair Hall 200 - View to the West (up)
Stair Hall 200 - View to the East
Mr. Lincoln's Bedroom 201 - South Elevation
Mr. Lincoln's Bedroom 201 - West Elevation
Mr. Lincoln's Bedroom 201 - North Elevation
Mr. Lincoln's Bedroom 201 - View to the Northwest
Mr. Lincoln's Bedroom 201 - View to the Southeast
Mr. Lincoln's Bedroom 201 - View to the Northeast
Mrs. Lincoln's Bedroom 202 - West Elevation
Mrs. Lincoln's Bedroom 202 - North Elevation
Mrs. Lincoln's Bedroom 202 - East Elevation
Mrs. Lincoln's Bedroom 202 - View to the Northeast
Mrs. Lincoln's Bedroom 202 - View to the Southwest
Maid's Bedroom/Sewing Room 203 - View to the South
Maid's Bedroom/Sewing Room 203 - North Elevation
Stair No. 4 - View to the South (down)
Stair No. 4 - View to the North (up)
Rear Hall 204 - West Elevation
Trunk Room 205 - View to the Southwest
Trunk Room 205 - View to the Northwest
Trunk Room 205 - View to the Northeast
Robert Lincoln's Bedroom 207 - South Elevation
Robert Lincoln's Bedroom 207 - West Elevation
Robert Lincoln's Bedroom 207 - North Elevation
Robert Lincoln's Bedroom 207 - East Elevation
Robert Lincoln's Bedroom 207 - View to the Southwest
Robert Lincoln's Bedroom 207 - View to the Northeast
Guest/Boy's Room 208 - South Elevation
Guest/Boy's Room 208 - West Elevation
Guest/Boy's Room 208 - East Elevation
Guest/Boys Bedroom 208 - View to the Southwest
Guest/Boys Bedroom 208 - View to the Northeast
b. Exterior Photographs

The exterior photographs of Lincoln Home and the site are a visual record of the existing conditions in the Spring of 1981.
View from NORTHWEST
View from WEST-SOUTHWEST
View from SOUTHEAST
View from NORTHEAST
West entry Steps and Gate
Close-up of west entry gate from the doorway
West entry Door
View of northwest Fence from the northwest
South fence entry Gate
Close-up of Steps thru south fence from south-southwest

Close-up of Steps thru south fence from north-northwest
South Gable of west roof.

Close-up of Vent in south gable wall
Pigeon screen on horizontal gable eave returns
Chimney at north end of west gable roof
Chimney at south end of west gable roof
South Chimney on east "flat" roof
Dormer for air exhaust on east slope of west gable roof
Lift-up Door in floor of South Porch, 106 - access to basement
Stair, No. 2, down to Furnace Room, B-3, at northeast corner of building
Corner of brick wall around Stair No. 2
Elevation of south Fence (west end)

View of south Fence from southeast
Cracks in coping on top of south brick wall
View of south Fence (east end) from the west
Concrete retaining wall in the south yard
View of west yard (north end) from west entry

View of west yard (south end) from west entry
View of south yard (west end) from south entry

View of southwest corner of yard from the south
View of east foundation wall - electrical conduit

View of east foundation wall - hose bibb
View of south foundation wall - basement window
View of Water Pumps from the south
View of south Pump from southwest

View of north Pump from southwest
View of Outbuildings from west

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View of Wood Shed from west
West Elevation of Privy

South Elevation of Privy
View of Carriage House from northwest
View of Carriage House from southwest
View of Carriage House and Wood Shed from southeast
Close-up of vent and miscellaneous items on north wall of Carriage House
8. Site Plan

In order to facilitate the reader in understanding the location of improvements to the site, a Site Plan has been drawn on the following page. The improvements are accurately located, as per the current information available, but some inaccuracies exist in the structures.
CONTINUED IN VOLUME II