PART II
HISTORIC STRUCTURE REPORT

BARRACKS BUILDING, HB-1
(VISITOR CENTER)

FORT LARNED NATIONAL HISTORIC SITE
PAWNEE COUNTY
KANSAS

Prepared by
A. Lewis Koue
Architect, DCS

DENVER SERVICE CENTER
HISTORIC PRESERVATION
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR
DECEMBER 1971
# TABLE OF CONTENTS

## ADMINISTRATIVE DATA  

- **A.** Name and Number of Structure  
- **B.** Restatement of the Proposed Use of the Structure  
- **C.** Provisions for Operating the Structure  
- **D.** Estimated Cost of Proposed Construction Activity and P. C. P.  

## HISTORICAL DATA  

- Page 7

## ARCHITECTURAL DATA  

- **A.** Record Drawing of Existing Conditions  
- **B.** Photographs of Existing Conditions  
- **C.** Detailed Description of Fabric, Materials, Construction and Existing Conditions  
- **D.** Architectural Description of Proposed Construction Activity  

## ARCHAEOLOGICAL DATA  

- Page 14

## LANDSCAPING DATA  

- Page 14

## FURNISHINGS AND EXHIBITION DATA  

- Page 14

## APPENDIX  

- Page 15
PREFACE

This report presents the work necessary to restore the exterior of Barracks Building, HB-1, at Fort Larned National Historic Site to the original appearance and configuration as it existed during its historic period, i.e., 1868-1878; and that work which is necessary to adapt the interior for administration and visitor use, in accordance with the Master Plan and Interpretive Prospectus for the Park.

All work in connection with the twin structure, Barracks Building, HB-2 including demolition of late period roof for that portion, will be included in a separate report.

Upon completion of this project the building will be a prime exhibit as well as serve for visitor contact, comfort stations, audio visual, museum and park administration offices.
ADMINISTRATIVE DATA

A. Name and Number of Structure
   Barracks Building, HB-1.

B. Restatement of the Proposed Use of the Structure
   The structure will be restored on the exterior to the authentic appearance of the building as it existed during its most historic period i.e., 1868-1878. The interior will be adapted for use as a Visitor Center and in conformance with Interpretive Prospectus, dated July 14, 1967, pg. 12, shall "contain a lobby with information desk, exhibit space, audiovisual room (for 50 to 60 persons, pg. 18), restrooms, and other rooms necessary for area management." The prospectus elaborates more specifically upon these requirements.

   The structure, as is the Fort, is classified as "First Order of Significance" and the Historic Structures Report, Part I, was approved February 3, 1967.

C. Provisions for Operating the Structure
   The structure will be operated by the National Park Service in accordance with the Master Plan, dated 6/30/66 and Interpretive Prospectus, dated July 14, 1967 as those documents are or may be amended.
D. Estimated Cost of Proposed Construction Activity

Summary of Estimate:

a. Demolition and disposal $29,000
b. Restoration of Exterior 100,500
c. Adaptation of Interior for Visitor Center 125,000

Construction $254,500
P. S. & S. 68,700
Contingency 48,400

TOTAL CONSTRUCTION $371,600

Itemized estimate and recommended P. C. P. follow.

NOTE: P. C. P. "B-1" should be superseded by a revised P. C. P. in accordance with revised estimate herewith.

In preparing this estimate, it is assumed that the cost of salvaging and handling the lumber will equal or exceed the cost of new material. Should circumstances prove otherwise, such values should accrue to the benefit of this project.
### Demolition and Disposal of Materials and Debris

Building HB-1, Main section 43' x 160' = 6,880 SF
Building HB-1, North wing 34' x 36' = 1,334 SF

<table>
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<th>Description</th>
<th>Area</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>1. Remove roof structure of main section + 10 ft.</td>
<td>6,880 SF</td>
<td>1.25</td>
<td>8,600</td>
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<td>2. Remove top 5' of stone wall main section</td>
<td>380 SF</td>
<td>5.00</td>
<td>1,900</td>
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<td>3. Remove loft floor and supports</td>
<td>6,000 SF</td>
<td>0.62</td>
<td>3,720</td>
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<td>4. Remove concrete floors and miscel. construction</td>
<td>6,860 SF</td>
<td>0.62</td>
<td>4,250</td>
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<td>5. Remove roofing from north wing</td>
<td>1,300 SF</td>
<td>0.30</td>
<td>390</td>
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<td>6. Remove end wall of loft</td>
<td>900 SF</td>
<td>0.30</td>
<td>270</td>
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<td>7. Remove concrete and doorway at end walls</td>
<td>-</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>8. Excavate cellars</td>
<td>12 CY</td>
<td>25.00</td>
<td>300</td>
</tr>
<tr>
<td>9. Cartage</td>
<td></td>
<td></td>
<td>4,020</td>
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<tr>
<td><strong>SUB TOTAL</strong></td>
<td></td>
<td></td>
<td>24,200</td>
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Contractor's contingency 20% 4,800

**TOTAL (Demolition)** 29,000
**Exterior Restoration**

Building HB-1, 43' x 150' = 6,450 SF and 
34' x 36' = 1,224, and Porch 1,600 SF

1. New roof construction, main section 
   6,450 SF @ 5.40  $34,830

2. New roof construction, porch and porch posts 
   1,600 SF @ 4.00  $6,400

3. New shingle roof on entire building 
   9,250 SF @ 1.00  $9,250

4. Custom made windows and trim 
   28 @ 150.00  $4,250

5. Custom made doors and trim 
   9 @ 200.00  $1,800

6. Wood porch floor with concrete foundations 
   1,600 SF @ 5.00  $8,000

7. Miscellaneous exterior historic rehabilitation 
   LS 6,020

8. Chimneys 
   4 @ 300.00  $1,200

9. Painting (exterior) 
   LS 6,000

10. Underpin foundations with reinforced concrete 
    including excavation 
    60 Cu.Yds. @ 100.00 $6,000

    SUB TOTAL 
    $83,750

    Contractor's contingency 
    20%  $16,750

    TOTAL (Exterior) 
    $100,500

Continued page 5
Visitor Center Adaptation -- Barracks Building HB-1

1. Concrete floors 6,000 SF @ .75 4,500
2. Wood floor construction 1,000 SF @ 1.00 1,000
3. Concrete cellar floor, stairs, waterproofing, etc. LS 3,000
4. Plaster ceiling 886 SY @ 7.00 6,200
5. Plaster walls 600 SY @ 5.00 3,000
6. Thermal insulation installed 7,000 SF @ .50 3,500
7. Partitions 280 LF @ 20.00 5,600
8. Millwork LS 5,000
9. Tile wainscot 800 SF @ 3.00 2,400
10. Hard tile flooring 500 SF @ 3.00 1,500
11. Resilient floor covering 6,000 SF @ .75 4,500
12. Allowance for wall finish in Museum area LS 5,000
13. Hardware LS 1,500
14. Plumbing and fixtures 13 @500.00 6,500
15. Heating, cooling, etc. 7,000 SF @ 3.50 24,500
16. Electrical work 7,000 SF @ 2.50 17,500
17. Fire detection and alarm system LS 3,000
18. Painting (Interior) LS 6,000

SUB TOTAL 104,200

Contractor's contingency 20% 20,800

TOTAL (Interior) 125,000
PROJECT CONSTRUCTION PROPOSAL

1. STATEMENT OF MANAGEMENT’S REQUIREMENTS, PROPOSED WORK, AND ITS RELATIONSHIP TO OTHER FACETS OF THE PARK PROGRAM. (Provide detail data for "Management Information" on Form 10-411a, Supplemental Sheet and attach.)

PROPOSED WORK: Restore Enlisted Men’s Barracks, HB-1 to the exterior configuration and appearance during historic period, c. 1868. Construct interior to adaptation as a Visitor Center and administrative offices and work areas.

JUSTIFICATION: This will restore the historical appearance of one of the major historical resources in the Fort area, and provide the initial contact point within the area where information, orientation and interpretation of the background study will be available. It will provide space for administrative functions, special storage and work rooms for work on historical items.

2. ADVANCE REQUIREMENTS DATA

LAND STATUS

U.S. Government - N.P.S.

CP NUMBERS OF PREVIOUSLY COMPLETE PORTIONS

MASTER PLAN NO.

NHS-FOLS-3000 B

APPROVAL DATE

August 30, 1966

INTERPRETIVE PROSPECTUS APPROVAL DATA

Date

Memo of Agreement, Midwest Region

July 18, 1967

WATER RIGHT NEEDS & STATUS

RESEARCH NEEDS & STATUS

OTHER

Furnishings and equipment for Visitor Center are not included in this P. C. P.

3. RECOMMENDED BY SUPERINTENDENT (Signature & Date)

4. APPROVED BY REGIONAL DIRECTOR (Signature & Date)

5. LOCATION WITHIN AREA OR TERMINI

6. BLDG. OR RT. # AND SEC.

Fort area.

Barracks Bldg.

Fort Larned NHS

HB-1

Pawnee

MW

P. 3

(County)

Kansas

(State)

Recommended PCP
## Itemized Estimate

<table>
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<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>COST</th>
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<tr>
<td>A. Demolition and disposal of nonhistoric elements materials and debris</td>
<td>L.S.</td>
<td>$29,000</td>
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<tr>
<td>B. Restoration of exterior configuration and appearance during historic period, c. 1868</td>
<td>L.S.</td>
<td>100,500</td>
</tr>
<tr>
<td>C. Construct interior for adaptation as a visitor center and administration offices and work area.</td>
<td>L.S.</td>
<td>125,000</td>
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**NOTE:**

See itemized estimate prepared by A. L. Koué.

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### Entwicklung:

**Construction Estimate Approved:**

(Asst. Director, Resource Studies)  (Date)

**Research Estimate Approved:**

(Asst. Director, Resource Studies)  (Date)

**Construction Estimate Approved:**

(Design Office Chief)  (Date)

**Interpretive Estimate Approved:**

(Asst. Regional Director, Operations)  (Date)

### Estimate Totals:

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<tr>
<th>Item</th>
<th>Cost</th>
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<tr>
<td>Construction</td>
<td>254,500</td>
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<tr>
<td>Plans, Surveys, and Supervision</td>
<td>68,700</td>
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<td>Contingencies</td>
<td>48,400</td>
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<tr>
<td>CONSTRUCTION</td>
<td>SUB TOTAL 371,600</td>
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<tr>
<td>INTERPRETIVE</td>
<td>SUB TOTAL (100%) 371,600</td>
</tr>
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</table>

**Grand Total**
HISTORICAL DATA

Fort Larned was first established as an escort station named "Camp on Pawnee Fork" and later "Camp Alert" before being elevated to the status of a temporary fort in June 1860 and renamed after Paymaster General, Col. Benjamin F. Larned, and established at its present location. The first structures were crude wood and adobe buildings designed and constructed by the troops.

From neglect during the Civil War, these buildings became unserviceable; but after the war, when activity on the western frontier increased and it became necessary to provide protection for emigrants from hostile Indians, Fort Larned was selected to be one of the permanent military establishments which necessitated a new construction program.

Major General William T. Sherman had been appointed commander of the Division of the Mississippi by Lieutenant General Ulysses S. Grant and was the man most responsible for the rebuilding of the fort, though the construction was under the immediate supervision of Captain Almon F. Rockwell from June 1867 until May 1868 when he was replaced by 2nd Lieutenant John P. Thompson.
The principal structures constructed under this program exist today, but in altered configuration. They were constructed of stone because of the scarcity of timber in the Kansas area, but the availability of good building stone near the site.

After abandonment in 1878 the fort property was sold at auction by the government in 1884 to the Pawnee Valley Stock Breeders Association; and after changing hands a couple of times, was purchased in 1902 by E. E. Frizell. The property remained with the Frizell family until purchased by the National Park Service, Department of the Interior, in 1967.

For more detailed historical background on Fort Larned and the individual buildings, reference is made to the Historical Data Section of the Historic Structures Report by James W. Shiere, published separately in two issues -- one dated September 1968, covering the Company Quarters, Building HB-1 and HB-2; and the other dated, February 1969, covering the other historic structures at the fort as well as elaborating further on the general history surrounding Fort Larned and the Indian troubles.
ARCHITECTURAL DATA

A. Record Drawings of Existing Conditions

See Appendix -- HABS drawings
KANS-21, five sheets, 1965

B. Photographs of Existing Conditions

See Appendix

C. Detailed Description of Fabric, Materials, Construction and Existing Conditions

The basic structural material is quarried sandstone laid up in random range pattern on stone foundations. The historic floor construction was wood flooring over joists. Presently the floor is concrete placed at original floor level. A covered porch with wood floor construction extended the full length of the building, but is not now in existence.

Sometime after the purchase of the property by E. E. Frizell in 1902, the walls were extended approximately five feet higher than the original walls and a gambrel type roof was added joining Barracks, HB-1 and HB-2 into one huge barn with an immense hayloft, approximately 342 feet long and 43 feet wide.
Barracks Building, HB-1, is 150 feet long and 43 feet wide with a 36' by 34' kitchen addition to the rear. It was divided into two identical company quarters, each complete with squad room, mess hall, kitchen, and orderly room. The locations of the partitions dividing the spaces are still evident in the plaster interior finish.

The original roof construction was clear-span trusses and pur-lins supporting rafters and a shingle roof covering. When the structure was altered and the hayloft added, the heavy timbers from the trusses were used as beams and posts to support the second floor. This application of these members was observed by Charles Lessig, Historic Architect, and he has reconstructed a drawing of the original truss which coincides with the iron rods and bolts which are listed in the building materials list in a report dated January 31, 1868, Bvt. Lt. Col. Almon F. Rockwell, the quartermaster in charge of construction. (See pg. 16 of the referenced Historical Data Section by James W. Sheire.)

Cellars which have been silted in by floods and winds existed under the north end of the kitchens and will be excavated and adapted to heater rooms.

Some openings have been added and others altered to accommodate the various uses of the building. See HABS drawings in Appendix for conditions as they existed in 1965 and still exist except for very
minor changes which will not effect the proposed construction activity. The HABS Field Note Books with detailed field measurements, sketches and photographs are in the files of the office of Historic Preservation, Denver Service Center.

Some changes have occurred in the relationship of floor levels to exterior grade that should be corrected or compensated for with the development of the working drawings.

D. Architectural Description of Proposed Construction Activity

Barracks Building, HB-1, shall be restored to authentic original appearance on the exterior; but for adaptive interior use as a visitor center including administration, comfort stations and museum with the retention, as possible, of the character of the original structure and decor. This shall be accomplished in general, as follows, and as shown by drawing, 425/41002, dated November 8, 1971.

1. Remove hayloft and stone walls down to original wall height including second floor construction and supporting beams and posts.

2. Remove concrete floors and all nonhistoric construction from within the structure.

3. Remove all nonhistoric windows, shutters, doors, trim and appurtenances from within and without the building.
4. Excavate cellars to original depth or as necessary to accommodate heating equipment. (This will require underpinning and waterproofing walls below grade.)

5. Grade around building to original historic grade or as directed.

6. Repair all unsound stonework and close in nonhistoric openings.

7. Underpin foundations as determined by engineering data and soil tests.

8. Construct concrete floor slabs.

9. Construct new roof supported by trusses and purlins to match original. Shingles to be fire retardent with Underwriters label.

10. Reconstruct covered porch full length of building to conform to original.

11. Restore interior plaster walls and apply acoustical plaster to ceilings.

12. Repair existing and/or install new opening frames, sash and doors to match original.

13. Install trim and millwork to match original design.

14. Subdivide areas of company quarters for administration offices, audio visual room and visitor facilities and museum as shown by drawing.
15. Construct basic case work and finish museum area in accordance with layout to be furnished by Harpers Ferry Center.

16. Install gas fired central heating and cooling system in cellar and duct system to serve all areas of building.

17. Install modern electric lighting system.

18. Install lightning protection system.

19. Install fire detection and alarm system.

20. Install plumbing fixtures, and make water and sewer connections approximately five (5) feet from building (Note: Others shall provide water, sewer and gas service to building.)

21. Install dummy brick chimneys on roof.

22. Paint all wood and plaster walls inside and outside to original colors.

23. Install thermal insulation in attic.

24. Install resilient tile floor covering.

25. Salvage materials that are sound will be reused where applicable.
**ARCHEOLOGICAL DATA**

In the execution of the work proposed by this Historic Structure Report, the earth within and around the building will be disturbed and shall be investigated for archeological finds and artifacts. Also historic grades around the building should be established.

Some archeological work is programmed for FY '72.

**LANDSCAPING DATA**

Early plans and photographs show very little vegetation and no planned landscaping around the building. Any landscaping that might be proposed in the development of the Park should be low key and in character with the Kansas prairie as it existed during the historic period.

**FURNISHINGS AND EXHIBITION DATA**

The administrative and visitor use areas of the project will be reconstructed for adaptive use of the interior, and the furnishings for these areas will be handled by the Park.

The layout for exhibits and etc. in the Museum area will be handled by Harpers Ferry Center and required adaptations affecting the basic structure and utilities should be available during preparation of construction drawings programmed for FY '72.
APPENDIX

Plates 1 - 7 Incl.

HABS Drawings

Preliminary Drawings for Restoration, Barracks Bldg. HB-1
PLATE I

Existing structure combining two barracks buildings into one huge barn. Left half is HB-1 and right half is HB-2. This report pertains to HB-1 only.
End view of existing structure with gambrel roof. Approximately five feet of stone wall has been added to original walls. Tower on kitchen wing, constructed for farm operation, shown to the left has been removed.
PLATE III

Interior view of barn loft showing construction of gambrel roof.
PLATE IV

Interior view of portion of building presently used as a store. All usable material from original barracks was reused in the construction of the barn.
PLATE V

Interior view of existing condition of kitchen area showing original interior finish.
PLATE VI

View of Barracks Buildings HB-1 and HB-2 as they appeared in 1879 at the end of U.S. Army occupation.
PLATE VII

Interim view of Barracks Building HB-1 after conversion to farm structure but before reconstruction to the barn shown by Plate I. Note that porch has been removed and an opening added to end of building.
FORT LARNED
PAWNEE COUNTY KANSAS

BARRACKS

FORT LARNED WAS ORIGINALLY BUILT OF STONE. IN 1868 THE FIRST STONE
STRUCTURE WAS ERECTED. BY 1869 THERE WERE TEN PERMANENT SANDSTONE BUILDINGS
HERE OF THESE STILL STAND TO BE VIEWED BY THE PUBLIC. THE BUILDING OF BARRACKS
PROBABLY BEGAN IN LATE 1868. SINCE A DRAWING MADE IN 1861, 1869 SHOWS ONE SET OF
BARRACKS COMPLETED, EACH BUILDING WAS DESIGNED TO ACCOMMODATE TWO COMPANIES.
THE CODE AND BARRACKS CONTAINED, BEYOND THE DORMITORIES; MISCELLANEOUS, KITCHENS, ORDERLY ROOMS, STORES, AND
WASHHOUSES.

BY 1874 THE FORT HAD BECOME LESS IMPORTANT, AS REFLECTED BY THE SMALLER
COMBATANTS STATIONED THERE. ONE-THIRD OF THE BARRACKS WAS EMPTIED; THE
NORTHEASTERN HALF OF THE BARRACKS WAS NICE INTO A HOSPITAL. THIS NEW HOSPITAL HAD
TWO WAMS, A MEDICAL ROOM, DISPENSARY, KITCHEN, STOREROOM, AND ATTENDANTS ROOM.

HISTORICALLY FORT LARNED WAS ESTABLISHED BY THE GOVERNMENT IN 1869 BECAUSE IT
HAD BECOME ESSENTIAL THAT A PERMANENT BASE FOR TROOPS TO GUARD THE SANTA FE TRAIL
BE LOCATED BETWEEN FORTS LEAENWORTH AND RILEY TO THE EAST AND FORT UNION, NEW
MEXICO, TO THE WEST. AS TREATIES WERE SIGNED BETWEEN INDIAN NATIONS, FORT LARNED
BECAUSE THE STATION FROM WHICH AMMUNITIONS WERE HANDED OUT TO PLAINS INDIANS.

IN SPITE OF THE TREATIES INDIAN WARS BROKE OUT IN 1864 AND 1868, CAUSING FORT
LARNED TO BE USED AS A BASE FOR MAJOR CAMPAIGNS. SUCH MEN AS MAJOR J. E. B.
STUART, COL. R. C. CARSON, WILD BILL HICKOK, BUFFALO BILL CODY, AND GENERALS HARDANCE,
SHERMAN, AND QUINTER WERE BASED AT THIS FORT.

THE LAST IMPORTANT CONFLICT OCCURRED IN NOVEMBER, 1868, FROM THIS TIME ON,
THE FORT BECAME LESS IMPORTANT UNTIL 1884 WHEN IT WAS SOLD TO A PRIVATE
CONCERN WHICH CONVERTED IT INTO A STOCK RANCH. AROUND 1898-1900 SOME OF THE
BUILDINGS WERE MODIFIED TO PROVIDE A BETTER BASIS AS A RANCH. IN 1957 THE FORT
WAS OPENED TO THE PUBLIC AS A TOURIST ATTRACTION.

RECORDED BY THE UNITED STATES NATIONAL PARK SERVICE

THE PROJECT WAS FINANCED FROM FUNDS OF THE "MISSION 66" PROGRAM OF THE
NATIONAL PARK SERVICE PROJECT UNDER THE DIRECTION OF CHARLES B. POPE, SUPERVISING
ARCHITECT, HISTORIC STRUCTURES.

MEASURED AND DRAVEN JULY-AUGUST, 1965, UNDER THE SUPERVISION OF MELVIN H.
BECKMAN, AS, ARCHITECT, KANSAS STATE UNIVERSITY BY STUDENT ARCHITECTS OF KANSAS
STATE UNIVERSITY.

MARY F. CHILDRESS  BART R. JARVIS  CONDON SMITH
BRUCE E. HEDLiAM  DON M. DERYNT

WESTERN OFFICE
NATIONAL PARK SERVICE
WASHINGTON, D.C.

BARRACKS (WEST)

FORT LARNED
PAWNEE COUNTY, KANSAS

HISTORIC AMERICAN BUILDINGS SURVEY
SHEET 1 OF 5 SHEETS
FIRST FLOOR PLAN

FORT LARNED
PAWNEE COUNTY, KANSAS

WESTERN OFFICE
NATIONAL PARK SERVICE

BARRACKS (WEST)

SURVEY NO.
KANS 21
HISTORIC AMERICAN BUILDINGS SURVEY

SHR 2 OF 3 SHEETS
PRELIMINARY DRAWING

ADMINISTRATION & MUSEUM - NB1

Scale 1/4" = 1'-0"

Visitior Contact
Residential housing over garage

Museum
Layout by Harper's Ferry Center

75 ft.

SOUTH ELY

West Ely

Section X-X

REXTION DRAWINGS SOLID HB1

VISITOR CENTER & ADMINISTRATION

Fort Larned

KNAPPS MUSEUM

Scale in feet

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WESTERN HERITAGE CENTER
OFFICE OF HISTORY & HISTORIC ARCHITECTURE

RESTORATION DRAWINGS SOLID HB1

VISITOR CENTER & ADMINISTRATION

Fort Larned

KNAPPS MUSEUM