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REPORT ON THE BRICKETT HOUSE EVANS NOTCH RANGER DISTRICT WHITE MOUNTAIN NATIONAL FOREST

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entitled Condition Report and Stabilization Plan, Brickett Place, Evans Notch Ranger consultants from Rochester, New York. The purpose of the present report is to provide a historical context that may correlate with Dr. Wheeler's archaeological findings. District, White Mountain National Forest, written in 1990 by Bero Associates, preservation described in detail, and its physical condition has been thoroughly assessed, in a document archaeologist Kathleen Wheeler of Brentwood, N.H. features were exposed by an archaeological investigation being carried out by historical This report is based on an inspection of the Brickett House on July 22, 1994. The purpose of the inspection was to assess the age and condition of the building when some of its The house has previously been

the status of the Brickett family at this period, and by study of several comparable houses circa 1812 (see Condition Report and Stabilization Plan), physical evidence within the Summary: Although construction of the Brickett House has traditionally been dated at farther south on Evans Notch Highway (Route 113) in the villages of Chatham, New building itself, discussed in detail below, points strongly to a construction date of circa Future interpretation of the house may be strengthened by further investigation of

Description:

of the cellar appear to be native fieldstone below grade, but these walls are covered by poured concrete capped with a withe of brick extending to the first floor frame above. built over a half basement that extends beneath the eastern side of the building. keeping the cellar warmer in the wintertime. This inner wall was probably added with the hope of stabilizing the foundation wall and of Structure: The Brickett House is a story-and-a-half gable-roofed brick dwelling house The walls

The fieldstone cellar walls are capped above grade by underpinning of large split granite slabs. These slabs retain the marks of the slots and holes by which they were split; their faces are not hammered to a smooth surface.

iron wedges, flanked by sheet metal shims, were inserted into these slots and driven tighter method made use of a chisel to create a line of narrow slots along the stone. The underpinning stones of the Brickett House were split by two methods. The first

series of flat, tapered indentations along one edge of the split stone. until the stone split. The characteristic marks of this flat-wedge method of splitting are

surfaces, were inserted in each hole and driven tighter until the stone split along the line of The second method of splitting seen in the stones of the Brickett House foundations used a holes in the stone. Small steel wedges, flanked by two "feathers" with rounded outer plug drill, rotated after every blow of the stonemason's hammer, to create a row of circular

preparing granite for splitting. In many buildings of about 1830, both technologies are seen side-by-side, as in the Brickett House. around 1830 were the period of transition from the flat-slot to the round-hole method of Both physical evidence gathered in the field and written accounts suggest that the years

that the western portion of the building, which has no basement, has foundations that consist of large fieldstones that were aligned in a trench. Atop these footings are large split granite slabs like those under the eastern end of the building. Like the latter, the hole splitting techniques. hammered to a true face. These stones also reveal a combination of flat-slot and roundunderpinning stones of the western end retain the marks of their splitting and were not Thanks to excavations by Dr. Wheeler near the southwest corner of the house, we can see

struck. These bricks are laid in common or American bond, with header courses every seven or eight courses. The original jointing detail seems to survive in certain areas of the indentation in the lime mortar, and is the common joint of the early nineteenth century. around three sides of the building. wall, probably partly because of the protection afforded by former porches that extended The brick walls of the house are made from hand-moulded bricks that appear to be sand-This jointing is composed of a simple half-round

extra time and labor demanded by the attractive, strong, but complex Flemish bond time display Flemish bond on their principal walls. Both urban and rural brick buildings began to display the common bond on their facades around 1830, possibly because of the important sides of buildings until about 1830. Most brick buildings constructed before this House in Portsmouth, New Hampshire (1716), one of the oldest brick buildings in the region, are laid in a variant of this bond. But the common bond was relegated to the less their trade in northern New England; the side and rear walls of the Macpheadris-Warner phenomenon of about 1830. true that use of the common or American bond for the principal walls of a house is a While brick bonding cannot be used as a precise dating aid for buildings, it is generally This bond had been known to the earliest bricklayers to ply

clamp or kiln of bricks in the walls. color, depending upon their location in the mass being fired. When all or nearly all of the and softer stretchers. This variation in color probably arises from the use of an entire wall areas, the surfaces have a speckled appearance due to the alternation of hard-burned certain zones of the walls, especially in the gable ends, are of markedly different colors from adjacent zones. Where darker and lighter bricks have been more fully integrated in The color of the face bricks in the walls of the Brickett House varies considerably, and Bricks from a small kiln have a wide variation of

from several kilns, will be much more even in hue. products of such a kiln are used in a building, the variation in color seen here is the usual Buildings constructed from selected bricks from larger kilns, or from selected bricks

these reveal much less variation in their walls. the Brickett house, this dwelling shows considerable variation in the color of its face bricks. Still other brick houses in North Chatham or Chatham appear to be later in date; appears to be nearly contemporary with the latter and to share a similar floor plan. One two-story house in North Chatham, a short distance south of the Brickett place,

laid in common bond, the header courses do not quite project to the inner plane of the wall; where exposed in the attic, some of these courses have been lightly parged to even laid as carefully as the face bricks, and appear to display even more randomness in color out the wall surface. As is usual in bricklaying, the backing bricks of the walls are not as single soldier courses on the faces of the walls; the keystone bricks are cut to a wedge Window and door openings of the Brickett house are spanned by flat arches of bricks laid The walls are eight inches (one brick) in thickness. As with most eight-inch walls

commonly provided by well-secured collar ties halfway up the rafters which are typically tied together through the house and thus are capable of resisting stresses contributed by this spreading tendency are resisted by the wall posts and studs have a tendency to spread under snow and wind loads. In wooden houses, the horizontal extra headroom in the low second story. Whether built of wood of brick, knee-wall houses such houses the wall plates are elevated two or three feet above the attic floor, providing bending forces at their upper ends. have no tie beams at the feet of the rafters, and so the rafters and the plate they rest on The overall form of the Brickett house is that of a knee-wall story-and-a-half house. Further resistance to the spreading of rafters is

horizontal stresses, and cannot contribute the resistance to spreading that wooden wall posts ties and by the stiffness of the wall plates. Brick walls have little ability to withstand In a brick house, the spreading tendency of the rafter feet can only be resisted by collar

and 12 inches broad. The peaks of the rafters are pinned into a pentagonal hewn ridgepole that runs the full length of the roof. placed about forty inches on centers. The feet of the rafters are pinned to heavy oak plates that rest atop the front and rear walls of the house and measure about 6 inches high with a broad axe, and measures about 7 inches high by 5-1/2 inches broad. including the pairs that rest atop the brick gables walls of the house. Each rafter is hewn The roof system of the Brickett house is composed of eleven sets of common rafters

joint is not uncommon at the ends of collar beams due to the fact that stresses in collar treenail. There is no evidence of a dovetail joint at these connections, although such a Each set of rafters is connected by a hewn collar beam at about mid-height. The er each collar tie are tenoned into the undersides of the rafters and secured by a single beams can alternate between tension and compression depending on wind and snow loads The ends of

of the rafter feet, each plate has been tied to the hall girts of the house by a steel rod that runs diagonally downward from the plate to the girt below. These rods were not examined had become evident. closely; they were presumably added in the twentieth century after spreading of the plates In an effort to resist the tendency of the wall plates to spread under the outward pressure

One unusual aspect of the roof system of the Brickett house is the fact that each gable wall has rafters and collar ties incorporated in the brickwork. The rafters apparently lie brick on their exterior. must be considerably less broad than the rafters in order to allow a four-inch covering of are approximately the same breadth as the rafters into which they frame, the end collars The collar ties are embedded in the masonry. atop the brick walls; their outer faces are covered by the rake boards of the gable ends. Whereas other collar ties in the roof system

the bricks where they pass over or rest on the collar ties. The Condition Report and Inclusion of collar ties in a brick gable wall is unusual, and introduces a line of potential weakness in the brickwork. Despite this fact, there is no obvious cracking or movement of brickwork above them. the collar beams during drying could have contributed to the inward motion of the incorporation of wooden framing elements in the walls. On the other hand, shrinkage of 4.13), but the cause of this is unknown and may have no connection with the unorthodox Stabilization Plan noted some inward tipping of the gable walls (p. 34 and figs. 4.12 &

The Brickett house originally had four chimneys. Of these, three remain

Of the three that remain, only one, the parlor chimney in the southwest room, appears to survive largely unaltered and is more fully described below under "Detailing."

making it difficult to ascertain the original condition of the structure. cellar appears to have been altered and its detailing above the first floor has been removed, The chimney in the sitting/dining room on the southeast still exists, but its base in the

gable end, window placement is symmetrical. Given its ample dimensions, the chimney almost certainly contained a cooking fireplace and a brick oven. The present chimney in survive in the cellar and reveal that the chimney was a large structure with a brick vault that rested on granite footings. Where it passed through the attic floor, this chimney measured about 4'-9 3/4" in breadth and projected about 4'-5 1/4" from the side wall of this location is a single-flue stove chimney built to serve a kitchen range. toward the center of the house to accommodate the width of the stack; on the western The kitchen chimney, in the northeast room, has been rebuilt. Because the chimney here was large, the attic window adjacent to it was offset Fragments of its base

first floor. The chimney in the northwest room of the house has been removed to a point below the

Detailing: The exterior detailing of the Brickett house is minimal and very simple. The house has a wooden box cornice without crown mouldings or gutters, and has simple, flat, untapered rake boards, recently replaced. A photograph taken between 1928 and 1933 and photograph might reveal whether these rake boards had a shingle moulding, which, along original rake boards, which taper slightly from eaves to ridge. Closer study of the original reproduced in the Condition Report and Stabilization Plan of 1990 appears to show the with the taper, would be traditional.

joint between each window frame and the abutting brickwork is sealed with a round staff moulding, which is characteristic of most brick houses of the early nineteenth century. Each window frame has a bead plowed into its inner corner, adjacent to the sash.

The interior detailing of the house is for the most part of the federal style, although there are a few features that derive from the subsequent Greek Revival period. The interior mouldings were produced by only two or three moulding tools. woodwork is thoughtfully composed and creates an interesting visual effect, but most of the

family. was evolving into the Greek Revival. bench beneath the windows on its south and west walls, it retains most of its original detailing. This detailing is highly indicative of a date around 1830, when the federal style a parlor to the extent that a special parlor existed in a small house filled with a large The southwest first-floor room is the most elaborate in the house and must have served While this room has had some changes, notably the installation of a wooden

the usual horizontal architrave and frieze, this mantelpiece has a semicircular arched opening that extends upward to within inches of the bed mouldings of the mantel shelf identical to the window casings of the room (see below), but are broken by applied capitals at the point where the architrave of a typical mantelpiece might occur. Instead of having The focus of the room is the mantelpiece. This feature is highly unusual, having an extraordinarily high shelf that stands about 63-1/4 inches from the floor. The shelf is Grecian ovolo above a cavetto and bead. The pilasters that support the mantelshelf are supported by a series of flat, deeply-projecting fillets, with bed mouldings composed of a

corresponding shallow niche in the brickwork behind it, suggests that this feature may have about that time for the entire house. were uncommon before 1830, this is one of several types of evidence pointing to a date of been designed originally for a parlor stove rather than for an open fireplace. Since stoves The extraordinary height of the mantel shelf, combined with the semicircular opening and a

blocks. The window casings are unusual in having blocks at their lower as well as upper corners, and in running beneath the window openings in place of window aprons. The have plinth blocks) is a double ogee separated by a central fillet. The inner door and window casings, covering the frames, are flat boards with an inner bead. profile of these casings (which are also employed as pilasters on the mantelpiece, and there The door and window casings of the parlor are symmetrically-moulded boards with corner

of the 1830 period as federal detailing gave way to Greek Revival features. Casings similar to these can be found in Asher Benjamin's influential book, The Practical House symmetrically-moulded board for the traditional backband moulding, are again characteristic Carpenter (Boston, 1830). Casings of this type, retaining the inner beaded member and substituting a wide

groove separating these cap elements from the flat lower baseboard. The baseboard of the parlor is more strongly Greek in feeling than any other feature of the room. It is composed of a very flat Grecian ovolo above a fillet, with a deep, plowed

central hallway of the house. patches in the wall plaster. A newer, higher chair rail runs along the wall adjacent to the has been removed around the entire room, but its former presence can be seen in elongated The parlor once had a chair rail that ran directly beneath the lower window casings.

twentieth-century doors have been hung in a few openings. These original doors are ve simple units, each with four nearly equal-sized flat panels. The doors are hung on butt hinges and have Norfolk thumb latches of the simplest type. The type of door seen in the parlor is repeated throughout the house except where These original doors are very

in the cellar. The room has no mantelpiece; a new floor of southern yellow pine covers the area where a brick hearth may have existed. Thus, it is difficult without further investigation, especially focused on the floor membrane as seen from the cellar, to say more conservative style than that of the parlor. As mentioned above, the chimney in this corner of the house seems to have been altered, having suffered changes to its foundation whether this room was designed for a stove or a fireplace. The front sitting room on the southeast corner of the house has less varied woodwork of a

single tool, then, the joiner gave this room an attractive federal-style appearance in which the mouldings of the backbands, chair rails, and baseboards are identical. used to fashion the backbands. The bottom of each chair rail is moulded with a 3/4-inchwide Grecian ovolo and bead, as is the top of each baseboard. baseboards and chair rails gain visual appeal through the use of the same moulding tool inner bead and a backband moulding composed of a Grecian ovolo and bead. The Both the door and window casings of this room are composed of flat boards having an By the inventive use of a

unusually small and the central fillet is proportionately prominent. The only other original sash in the house is the three-light transom sash above the front door. This has the same This room is the only one in the house to retain original sashes; these survive in its eastern window openings. The muntins of these six-over-six sashes are of the standard federal-style profile of 1790-1830, except that the ovolo mouldings on the muntins are muntin profile.

arrangement of the originals, they have an ogee muntin profile that contrasts with the ovolo-and-fillet design of the older units. A photograph taken between 1928 and 1933 and owned by Guy Shorey of Gorham is reproduced in the Condition Report and Stabilization The remaining window sashes in the house are modern. While they retain the six-over-six

probably the time when the new sashes were installed. Plan of 1990. This photograph records extensive remodeling to the house. Some win sashes are shown as missing, with their window openings boarded temporarily. This is Plan of 1990. Some window

combine the space at the rear (north) end of the passageway with that of a once-smaller suggests that the entry was altered and truncated at the back of the staircase in order to and the end wall of the entry do not match other casings leading from the kitchen; this that the casings around the doors between the kitchen and the cellar stairs and the kitchen presently does, is difficult to say without more detailed investigation. It should be noted this entry extended through the full depth of the house or stopped at the kitchen wall, as it The Brickett House was planned with a central entry between the front rooms.

board lath in the entry was sawn on a reciprocating saw and is therefore similar to that in other areas of original plaster. sign that the entry had a chair rail. southeast sitting room. The detailing at the front of the entry is simple. Door casings are identical to those in the southeast sitting room. The baseboard has a simple bead at its upper edge. There is no Where exposed by damage to the plaster, the split-

the unfinished area above the stairs, unless earlier walls, now replaced by the present ones, enclosed the upper end of the flight. bedchambers at the western end of the house, was cut on a reciprocating saw. This implies that the entry was open to the attic at the time of first construction, with a view of from the attic at the eastern end of the second floor, this area has circular-sawn split-board lath, whereas other lath in the house, including that in the walls of the two second-floor The enclosure at the head of the stairs is later than other walls in the house.

post, the dowel-like balusters, and the simple, shaped handrail suggest the period around 1850 or later rather than that of 1830. Possibly these elements were introduced at the same time that the upper end of the staircase was enclosed with newer lath and plaster. The present balustrade appears to be a replacement. The style of the heavy, turned newel

and a tapered shaft broken only by a reglet a few inches below the ovolo. A similar placed below. bottom of the stairs and was moved to the top when the larger and newer newel was another element originally stood here; possibly this post was the original main newel at the newel post is illustrated in Plate 57 of Asher Benjamin's The Practical House Carpenter. square block to receive the handrail, a Grecian ovolo transition moulding below this block, The newel post at the head of the stairs, on the other hand, is characteristic of the 1830 period. This element, turned from birch or maple, has a mushroom-like knob at its top, a Irregularities in the floor boards beneath the base of this upper newel post suggest that

features in common with the simpler detailing of the front portion of the house. The door and window casings are identical to those in the entry and southeast room. The room once had a chair rail, 33-1/2 inches high, around its perimeter. This element was integral with The northwest room on the first floor, probably originally intended as a bedchamber, has

the window aprons, and sections of it remain beneath each window, to the east of the doorway leading to the front parlor, and in closets.

several inches above the combined chair rail and window stool/apron. The window openings and sashes for the rear rooms of the house are some three inches (one course of bricks) smaller in height than the openings for the front rooms. In order the front rooms, the window casings are carried beneath the lower rail of the bottom sash, make the interior window openings of the northwest chamber appear as high as those of In order to

through part of this closet, and the closet itself blocks a former door opening between the chamber and the front parlor (see below, Evolution). adjacent to the parlor, was added later. plaster and floor boards. A broad but shallow closet in the south wall of the room, This room once had a chimney in its western wall, as may be seen from marks in the wall The original chair rail of the room extends

the most traditional space in the dwelling, retaining cooking technologies that were about to be superseded in the 1830s by cast iron ranges. This is common among houses of the on there. The room has been remodeled extensively on several occasions and its evolution deserves careful investigation. As mentioned above, the kitchen almost certainly reliability of cooking ranges. incorporated a cooking fireplace, probably with a brick oven, while other rooms in the house may have utilized air-tight stoves for heat. In this sense, the kitchen was probably period; many housewives trusted fireplaces and brick ovens and were unsure of the The kitchen was not studied closely due to archaeological laboratory activities being carried

sawn on a circular saw. sawmill. edged door and window casings. They are floored with narrow boards of southern yellow pine. As mentioned above, their lath is of the split-board type, sawn on a reciprocating The two bedchambers on the western side of the second floor have very generic, square-The small upper entry outside their doors was added later, having split-board lath

merely an enframement for a stove location. fireplace opening was not removed, so it is possible that the apparent fireplace was actually mantelshelf of the simplest Greek Revival design. The sheet metal covering of the The bedchamber at the southwest corner appears to have a fireplace surrounded by a

chimney that passed through this room. northwest bedchamber, little can be deduced about the character of any fireplace or Due to the removal of the northwest chimney and the subsequent reflooring of the

Evolution:

described. As a rural dwelling in a newly-settled and rather remote region, the Brickett House to the most advanced farmhouses of longer-settled areas, where brick dwellings had House was remarkable in being constructed of brick. Brick construction linked the Brickett around 1830. As previously mentioned at several points, the Brickett House appears to have been built This date is borne out by both structural and stylistic evidence, already

small in size, the Brickett House was remarkably sophisticated for its era. not most, houses of 1830 relied entirely on fireplaces for heating and cooking. Though newspapers by 1830, many conservative New Englanders did not yet trust them. details at this period. The Brickett House may also have incorporated stoves in its original heating arrangements. While stoves were widely advertised in New Hampshire and Maine Hampshire, Greek Revival detailing was only beginning to emerge by 1830. In many cases, as in the Brickett House, Grecian features were intermixed with older federal-style emerging Greek Revival style. Even in areas closer to the urban centers of New been rare until about 1830. The building was likewise remarkable for its reflection of the

As built, the house differed somewhat from its present appearance. Apart from the removal of the kitchen (northeast) fireplace and the northwest chimney, the dwelling had a and may have led to a visibly open attic area. have extended through the entire depth of the house. somewhat different floor plan from that seen today. As mentioned, the central entry may The staircase had earlier detailing

led only to a closet in the wall; on the other hand, the passageway between the two rooms may have been located here for some reason, and may have been moved to its more sheathing and extends across that location in the bedchamber. It is possible that this door opening can be seen in the wall plaster. Corresponding marks on the north side of the partition between the two rooms are covered by a closet that is constructed of wooden There is evidence that a doorway once opened from the parlor into the northwest first-floor bedchamber close to the western (exterior) wall of the house. The outline of the traditional central location at a later time.

southeast sitting room, against the partition between that room and the kitchen. This evidence takes the form of termination of the baseboard at the edge of the cupboard closest contributed to the use of the room for eating. nearby window casing. This closet was probably a dish cupboard or dresser that to the door leading to the kitchen, and termination of the backband moulding around the There is also evidence of a former closet or cupboard in the northeast corner of the

may have occurred at this general period. There is evidence, particularly strong in the balustrade, that the house was modernized about 1850. The same remodeling may have included changes to the chimneys, with the introduction of stoves where fireplaces may have existed earlier. Pending further study, we interior features in the twentieth century, it is now hard to trace all of the of the stairs may also date from the mid-century remodeling. Given the removal of some may assume that the second-floor bedchambers are original, but the enclosure at the head alterations that

left Brickett family ownership in 1877 and having passed through the hands of six different owners. The Forest Services has used the building for many purposes, including a ranger of the parlor (perhaps leading to the closure of the door in the parlor wall, mentioned station, CCC headquarters, Appalachian Mountain Club hut, and Boy Scout camp. were the installation of a wide bench, some fifteen inches high, around the exterior walls varied uses have stimulated various twentieth-century changes to the house. Among these The house passed into ownership of the United States Forest Service in 1918, after having

cut from parts of the kitchen and the northwest first-floor bedchamber; installation of new the house; and installation of central warm-air heating. above); installation of electricity and running water, accompanied by creation of a bathroom window sashes; construction of a broad porch around the north, west, and south sides of

remaining porches, on the west and north elevations of the house, have recently been The southern (front) porch shown in old photographs was removed in 1961. The

Condition

in a Condition Report and Stabilization Plan, Brickett Place, Evans Notch Ranger District, The condition of the Brickett House was thoroughly and capably assessed by Bero Associates of Rochester, New York. Their findings and recommendations were presented White Mountain National Forest.

that the existing porches would be retained and the missing porch reconstructed. The authors noted that "the porches can always be demolished if a Historic Structure Report determines that the principle historic significance of this building predates the porches." assumed (pp. 3-4) that the house would be restored to its appearance of circa 1935 and The condition of the Brickett House remains essentially as described in this report, except for the recent removal of the north and west porches. The authors of that report had

archaeological excavations along portions of the north, west, and south sides have disclosed the footings beneath the underpinning stones of these walls. This exposure is important in treatment of those walls. gaining an understanding of the support of the brick walls and in developing a strategy for The porches have now been removed from all elevations of the house. Further,

eastern half of the building. that the roof frame, unsupported by any interior partitions, has settled somewhat over the the wall plate above. The ridge of the roof in this area shows a slight bow, suggesting brick wall has moved outward beyond the wall plane, probably due to outward bowing of is also an area above the windows to the right of the front doorway where a portion of the between underpinning stones. Many of these failures are probably old; some appear in historic photographs dating from the 1930s. As pointed out in the Condition Report, there however, exhibit an unusual number of stress cracks. by removal of the porches, and can be seen to extend upward from many of the joints In general, the exterior condition of the Brickett House is sound. These have been made more obvious The brick walls do,

house, and other leaks, temporarily hidden above the bedroom ceilings, may exist on the western side. in 1990. This roof is presently leaking in areas of the open attic on the east side of the A new roof of wooden shingles has been installed since the Condition Report was written

condensation of water vapor in the humid summer air meeting cold surfaces. The basement of the house is damp. Some of this dampness may be attributed to On July 22,

occurred north of the house, probably in the 1930s. It is very likely also exacerbated by removal of the porches, which would have carried rainwater and roof run-off some distance from the cellar. dampness derives from migration of ground water into the excavated cellar. This m have been exacerbated by extensive fill, now exposed by archaeological testing, that virtually every surface in the cellar had hanging droplets of condensation. Some of the

covered with Masonite or other sheet materials. The condition of the interior surfaces is generally sound but dirty. The house has suff from lack of routine cleaning and maintenance for some time. Where plaster has been damaged, it has either been left in poor condition (as in the central entry) or has been added here and there, creating a sense of clutter and diminishing the visual coherence of Makeshift shelves and closets have been The house has suffered

Since the Condition Report describes the general state of the house quite fully, I will reiterate only two recommendations of that study. First, the house deserves a full historic structure report that will expand upon and refine the findings of this brief field report. Second, an interpretive philosophy should be developed upon the basis of the historic structure report, and future changes to the house should be guided by that philosophy

Treatment

needs to be returned to productive use. issues surrounding a structure that has suffered the effects of time and neglect and that Standards for Rehabilitation. These guidelines provide a sound approach to the complex National Register of Historic Places, should observe the Secretary of the Interior's report, that all treatments of the building, as a federally-owned property listed on the Condition Report and Stabilization Plan. I would like to reiterate the point, made in that Treatments for many of the conditions of the Brickett House have been suggested in the

The ten Secretary of the Interior's Standards for Rehabilitation are:

- requires minimal change to its defining characteristics. A property shall be used for its historic purpose or shall be given a new use that
- 2. The historic character of a property shall be retained and preserved. The removal of historic materials, or the alteration of features and spaces that characterize a property, shall
- features or elements taken from other historic buildings, shall not be undertaken. Alterations that create a false sense of historical development, such as adding conjectural Each property shall be recognized as a physical record of its time, place, and use.
- 4. Most properties change over time. Those changes that have significance in their own right shall be retained and preserved. Those changes that have acquired physical

- that characterize a property, shall be preserved. Distinctive features, finishes, and construction techniques, or examples of craftsmanship
- or pictorial evidence. shall match the old in design, scale and proportion, color, texture, and, where possible, in severity of deterioration requires the replacement of a distinctive feature, the new feature Deteriorated historical features shall be repaired rather than replaced. Replacement of missing features shall be substantiated by documentary, physical, Where the
- gentlest means possible materials shall not be used. 7. Chemical or mechanical treatments, such as sandblasting, that cause damage to historic Surface cleaning, if appropriate, shall be undertaken by the
- preserved in place. If such resources must be preserved, mitigation measures shall be Significant archaeological resources affected by a project shall be protected and
- protect the integrity of the property and its surroundings. and shall be compatible with the massing, size, scale, and architectural features so as to materials that characterize a property. New additions, exterior alterations, or related new construction shall not destroy historic terials that characterize a property. The new work shall be differentiated from the old,
- property and its surroundings would be unimpaired manner that, if removed in the future, the essential form and integrity of the historic 10. New additions and adjacent or related new construction shall be undertaken in such a

during several summer-winter seasonal cycles. Before undertaking any ambitious programs the house, but we also know that the glacial till surrounding its foundations is capable of holding much roof water and that the cellar is wet. We know that the house had sheltering porches over the past sixty years, and we can deduce that these reduced the amount of water that accumulated next to the foundations. We do not know the full effect over a period of several seasons. to stabilize the foundations, we should learn how the house reacts to present conditions of the sudden reintroduction of large quantities of roof water next to the walls, especially the foundations of the house and of the soil types and moisture conditions that prevail immediately around the building. We know that the water table is low in the vicinity of action be taken. Thanks to the investigations of Dr. Wheeler, we now have some idea of House, probably the most noticeable defects of the building, I would urge that no quick Regarding the stress fractures that have developed in the brick envelope of the Brickett

opening of mortar joints. shifting of the foundations will result in the cracking of some bricks as well as in the bricks during shifting of the walls but, as is readily seen in the Brickett House, severe having only lime as a cement may reduce the probability of actual cracking of individual foundations will quickly be reflected in the brickwork above. The use of soft mortars It is natural that a brick house will develop a few stress fractures over time. A be is relatively inelastic in comparison to a wood-framed wall, and any motion in the A brick wall

Richter scale, and occurred when the soil in Chatham may have been frozen around the footings of the Brickett House. moving now. It is even possible that the worst of these cracks resulted not from frost occurred in the early years of the building, and the extent to which these cracks may be What remains unknown at the Brickett House is the extent to which visible cracking The largest recorded temblors in recent years occurred on December 20 and 24, but from seismic activity. Several earthquakes affected the Chatham area since

best to accept this motion as inevitable and merely do cosmetic patching of cracks with very soft lime-sand mortar which would have to be replaced from time to time. move during freeze-thaw cycles but return essentially to their original positions, it may be attention to the footings themselves will prevent future shifting of the stones. If the cracks the footings under the western end of the house, for example, it may be that no amount of it would be imprudent to intervene with drastic measures. If frost penetrates well below Until we know the behavior of the cracks in the Brickett House walls over several seasons,

as the Condition Report states, would be to repoint the open joints with soft lime-sand mortar and then note whether or not the re-filled joints open. the slide breaks, the crack is active. direction it is moving) involves the gluing of a glass microscope slide across the crack. report. A cheaper system that tells merely if a crack is moving (not how much or in what the building. Information about commercially-available crack monitors is attached to this movement (if any) over several seasonal cycles before deciding on any remedial work on I would suggest attaching monitors to various cracks in the walls of the house, noting their Another method of monitoring the motion of cracks,

(that is, their moulds were wetted rather than being dusted with sand), so the surface formerly made in New Hampshire and Maine were water-struck rather than sand-struck likely that they would differ in size from those in the house. Many hand-moulded bricks The hand-moulded bricks used in the walls are no longer made anywhere in New England. It should be noted, too, that replacement of cracked bricks in the walls could be difficult. Brickett House texture of bricks from other sources may differ considerably from that of the bricks in the Even if a supply of older hand-moulded bricks, fired in a scove kiln, could be located, it is

following craftsman/contractor: bricks, repointing, or other aspects of applied brick masonry, I would recommend the If the Forest Service wishes to undertake repairs to the brickwork, replacement of selected

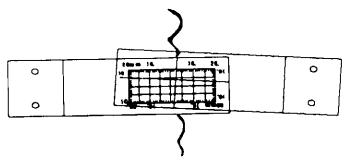
Richard Hossman Royal River Construction, Inc. P.O. Box 705 Gray, Maine 04039-0705 Tel.: (207) 657-4911

New England brickyard to make bricks with hand moulds and scove kilns. Mr. Hossman is not only a skilled restoration mason, but was the proprietor of the last

further study. the cause of water infiltration be identified and corrected. All other repairs can await and, ultimately, everything below the attic. It is important that the roof be inspected and At present, there is only one urgent repair needed at the Brickett House: repair the roof leaks. Chronic leakage will damage the shingles, roof sheathing, rafters, attic flooring,

that needs attention. There are methods, and specialists, for plaster repair and conservation, for woodwork reproduction, and for every other special trade that might be needed at the Brickett House. The New Hampshire Division of Historical Resources stands ready to offer any technical assistance within its power. conservation or restoration techniques can be devised for each category of interior surface Historic Preservation Commission. Once a more detailed preservation philosophy is developed for the house, various The same is certainly true of the Maine

AVONGARD CRACK MONITOR



This calibrated tell-tale is easy to install with screws, nails or epoxy (see Quick Set Epoxy below). It is waterproof and weather resistant so it can be used inside and outside. This monitor is direct reading to an

accuracy of one millimeter for horizontal or vertical movement. This simple gage is made of durable acrylic plastic and has an easy to read red zero cursor. Included is a crack progress chart so anyone at the site can mark the position of the crossed cursor for later engineering evaluation. 1-1/4" x 5-3/4" x 1/4".

SCRATCH PLATE CRACK MONITOR

This simple, easy-to-use "scratch pad" type crack monitor allows you to test expansion, contraction and general movement over any period of time (from one day to one year). This metal and acrylic plastic monitor measures even the most minute movement on a scribe plate. Install with epoxy (see Quick Set Epoxy below) or epoxy and screws. 1" x 5" x 1/2".

QUICK SET EPOXY

Blister package of quick setting (3-5 minutes at 75 degrees F) epoxy. Bonds to concrete, stone, wood, glass, metal. Contains no solvent and will not shrink. Can be used for installing crack monitor. We recommend one packet per monitor. 4.0 grams.

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