

CCULTURAL RRESOURCE MMANAGEMENT

Managing Archaeological
and
Architectural Resources

CRM



Archaeological
Resources



Architectural
Resources

Preserving the Past

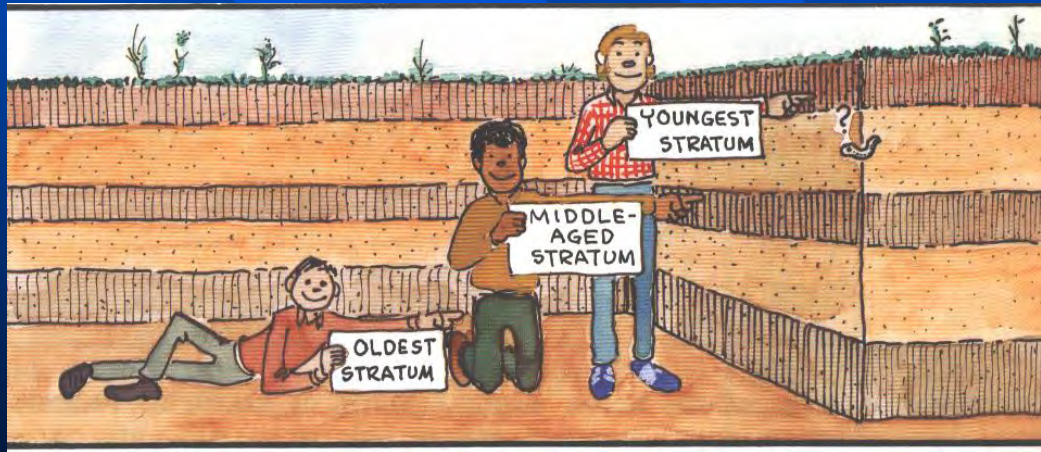
Archaeological & Architectural Resources: Important *Differences*

- Archaeology is the systematic study of past human life and culture by the recovery and examination of remaining material evidence including architectural remains, artifacts, human remains, environmental data, and landscapes.



The Goals of Archaeology

- The goals of archaeology are to document and explain the origins and development of human culture, understand culture history, chronicle cultural evolution, and study human behavior and ecology, for both prehistoric and historic societies.



Architectural Resources

- Historic Preservation Planners have identified architectural resources that include houses, bridges, churches, factories, schools, lighthouses, the battleship Arizona, farmsteads, cemeteries, railroad & road corridors – virtually any structure that possesses exceptional values or qualities in illustrating or interpreting our heritage.



The Goals of Historic Preservation

- The goal of historic preservation with regard to structural resources is to preserve and protect historically or architecturally worthy buildings, structures, sites, and districts that serve as visible reminders of the historic heritage of the city.



The Yin-Yang of CRM?



- What are some things archaeological and architectural resources have in common?
- What are some common goals of archaeologists and historic structures preservationists have in common?

Some Preservation Terminology

Archaeology

NRHP Determination

Mitigation

Stabilization

Publication

Public Awareness

Historic Structures

NRHP Determination

Mitigation of adverse effects

Renovation

Adaptive reuse

Education

The NRHP

The National Register of Historic Places is the official list of the Nation's historic places worthy of preservation. Authorized under the National Historic Preservation Act of 1966, it is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect our historic and archaeological resources. Its primary goals are to foster a national preservation ethic; promote a greater appreciation of America's heritage; and increase and broaden the public's understanding and appreciation of historic places.

NRHP Eligibility Criteria

- Above-ground cultural resources eligible for the NRHP are defined as buildings, structures, objects, sites, and districts that have integrity of location, design, setting, materials, workmanship, feeling, and association and that meet one or more of the following criteria. Criterion D is most often, but not exclusively, used with archaeological resources.
- Criterion A) They are associated with events that have significantly contributed to the broad patterns of history.
- Criterion B) They are associated with persons significant in the past.
- Criterion C) They possess the distinctive characteristics of a type, period, or method of construction; they exemplify the work of a master architect, engineer, or artist; they embody high artistic values; or they evidence a significant and discernible entity whose components may lack distinction on their own.
- Criterion D) They have yielded or may be likely to yield information significant to prehistory or history.

Determining NRHP Status of Historic Archaeological Sites

Historic/Cultural Context

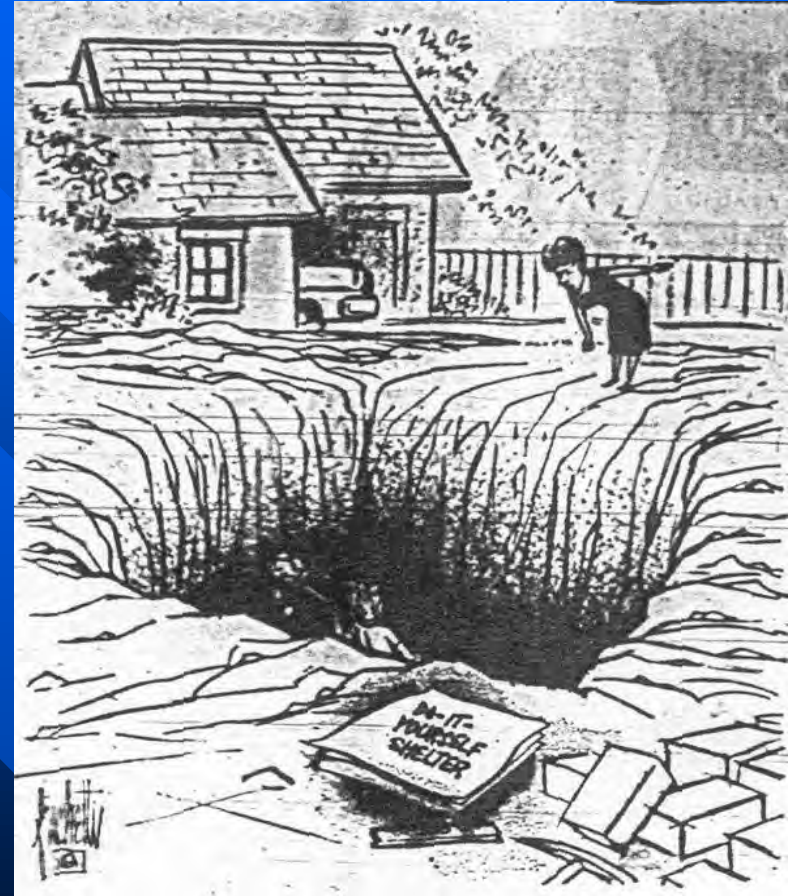
All archaeological studies preceded by literature review and records search to include:

- State Archaeological Site Files
- Deeds, plats, photographs, aerial photos, maps, court records, Sanborn Fire Insurance Maps,
- Census data including Agricultural, Population, & Industrial, slave schedules, wills, tax records, etc.

Hmmm I never knew that!



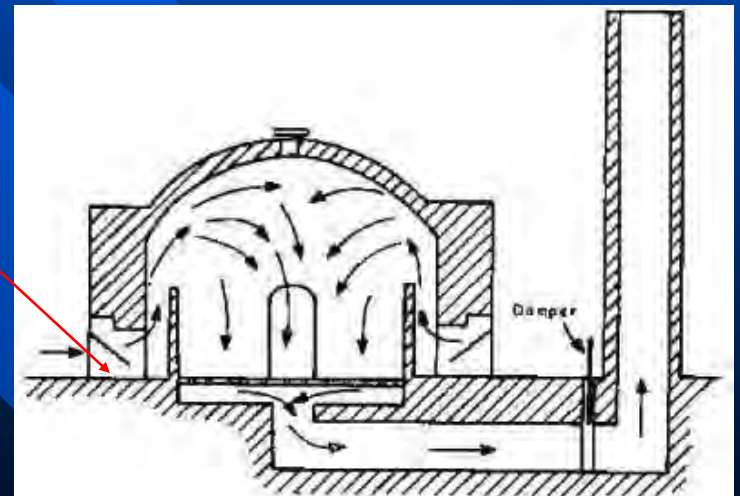
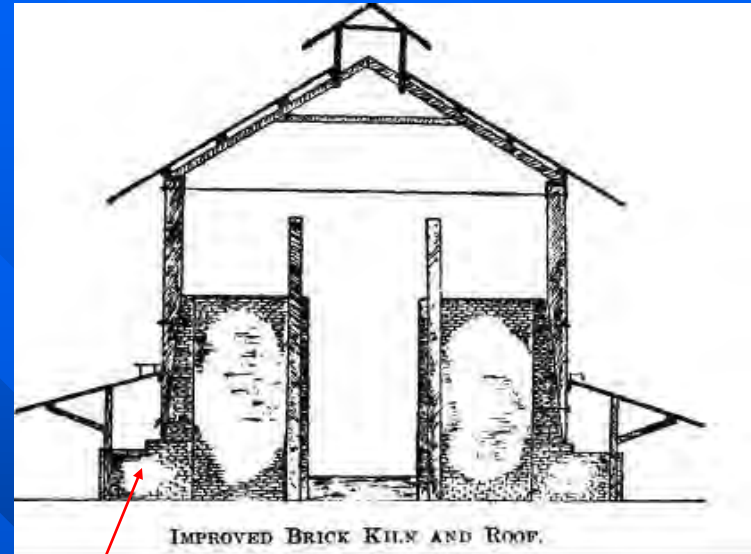
Newspaper Cartoon Helps Provide Historical & Cultural Context



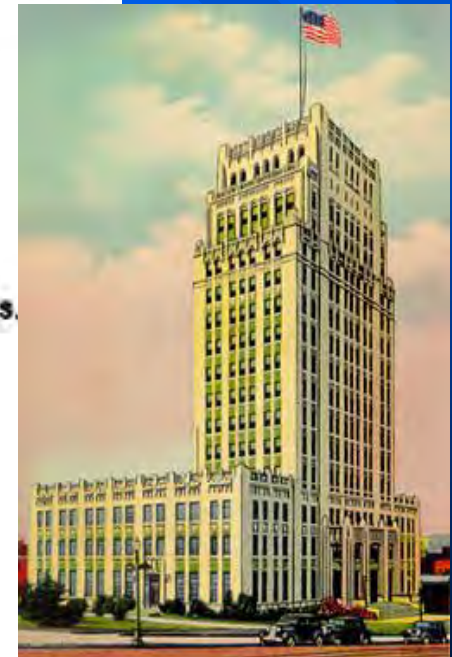
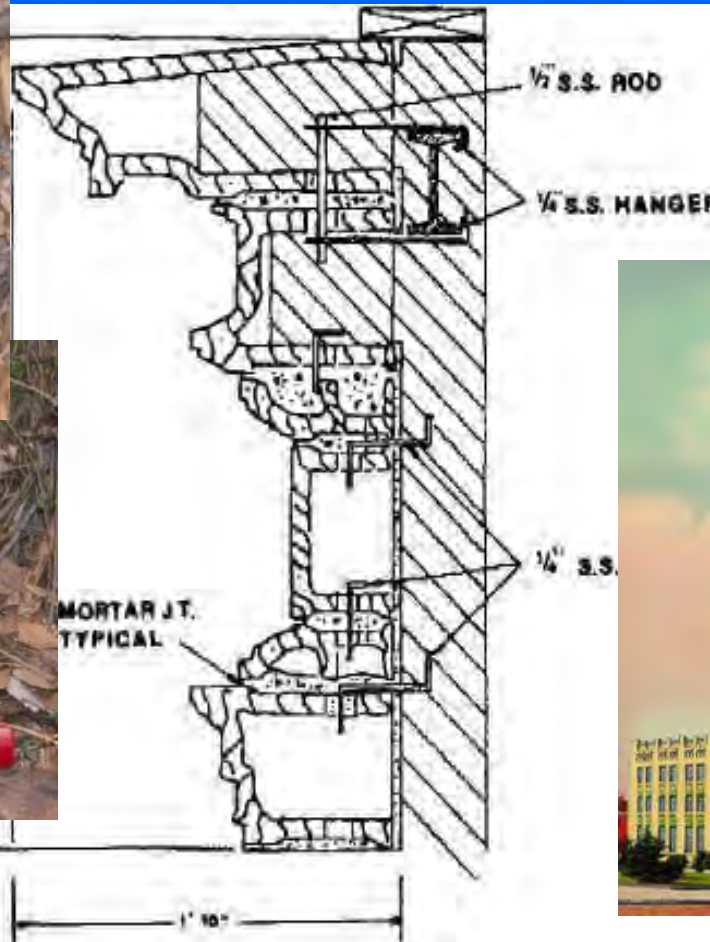
Archival Photo Identifies Artifacts



Historic Illustrations Help Identify Feature as Kiln Firebox Floor

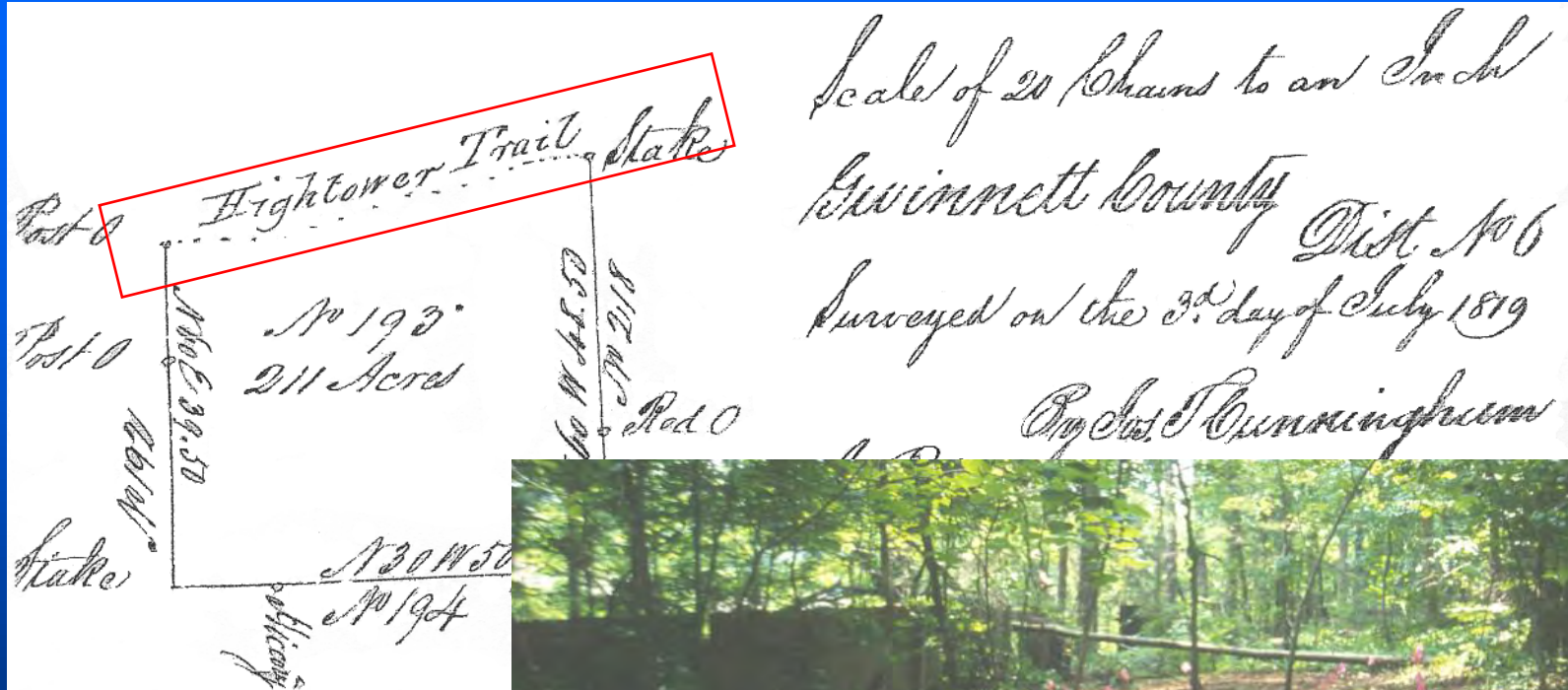


Personal Interview + Catalogue Helps Identify “Mystery” Artifacts



Superior Clay Company Catalogue, n.d.

Archival Record Helps Identify Site



House Site Identified *via* Old Deed Plat Map...



Artifacts Dated From/Used to Date Historic Structures



A historical photograph of a large brick kiln under construction. The structure is made of brick and features a complex wooden scaffolding system. A tall, slender chimney stack is visible in the background. The ground in the foreground is dirt and gravel.

A Case In Point Close to Home:

**J.W. McMillan's 1910 Haigh Kiln
at Milledgeville**



Ocoee River view south

What Now Appears

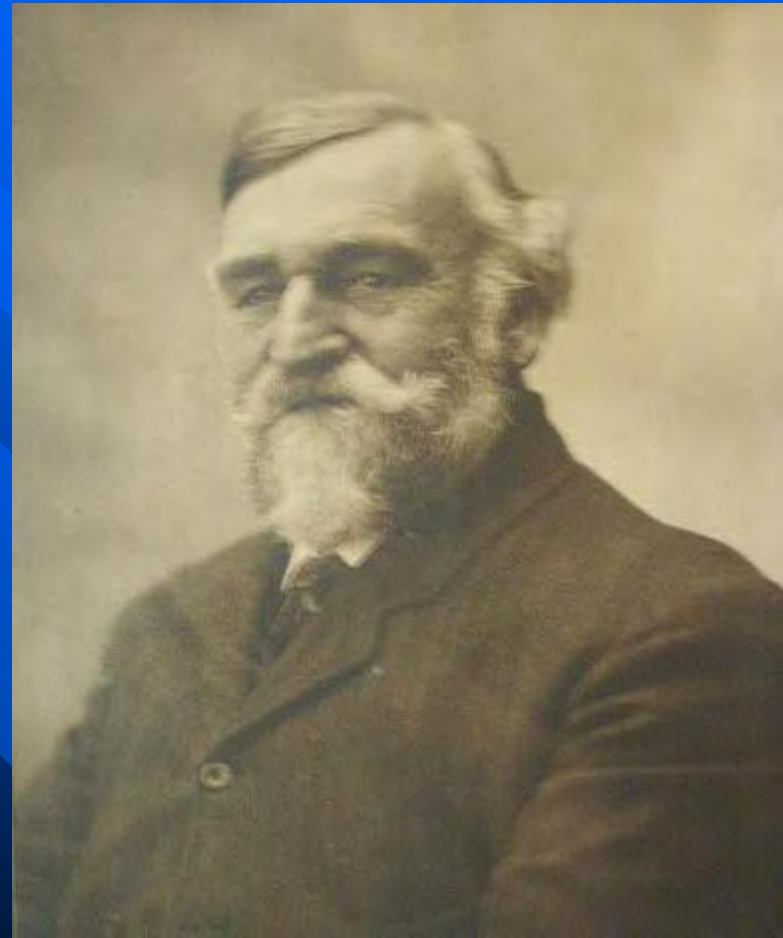


How It Once Was

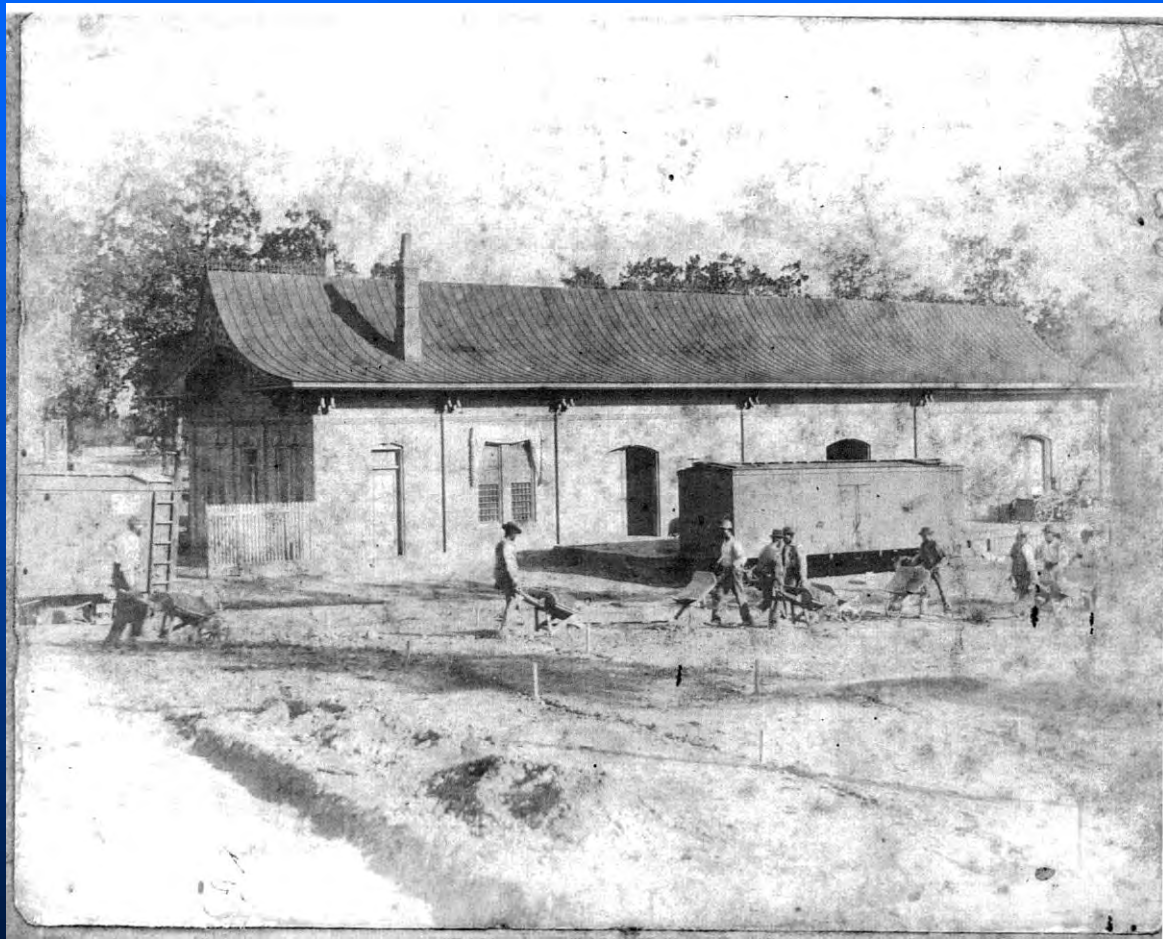


“JW”

- 1869 Emigrated Scotland to PA.
- 1873 Started brick-making business Madison, GA.
- 1883 Moved brick-making business to Milledgeville, GA.



First Major Project in M-ville



Ca. 1883 McMillan workers unloading brick at State Asylum

1886 Milledgeville Courthouse



1904 Milledgeville Presbyterian Church



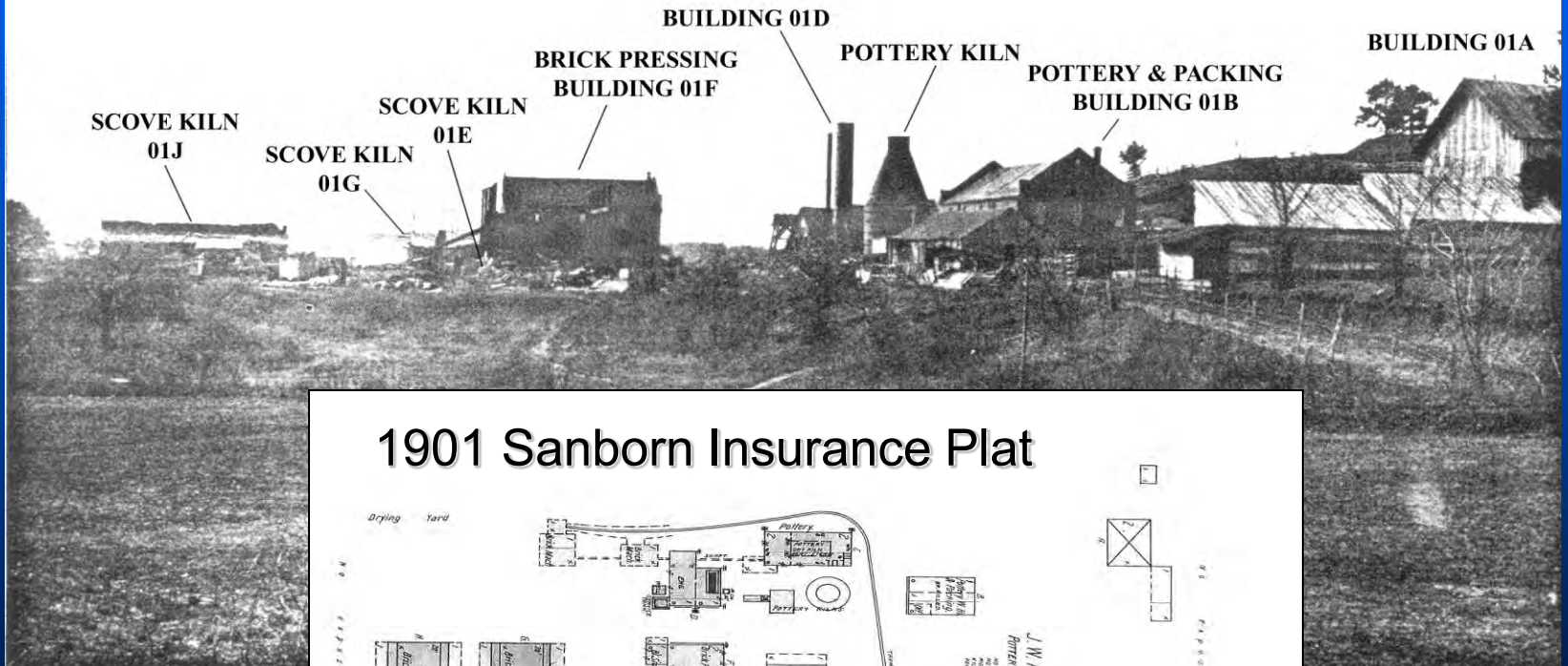


McMillan decorative terra cotta and brick, including "rope" brick seen around his grave.

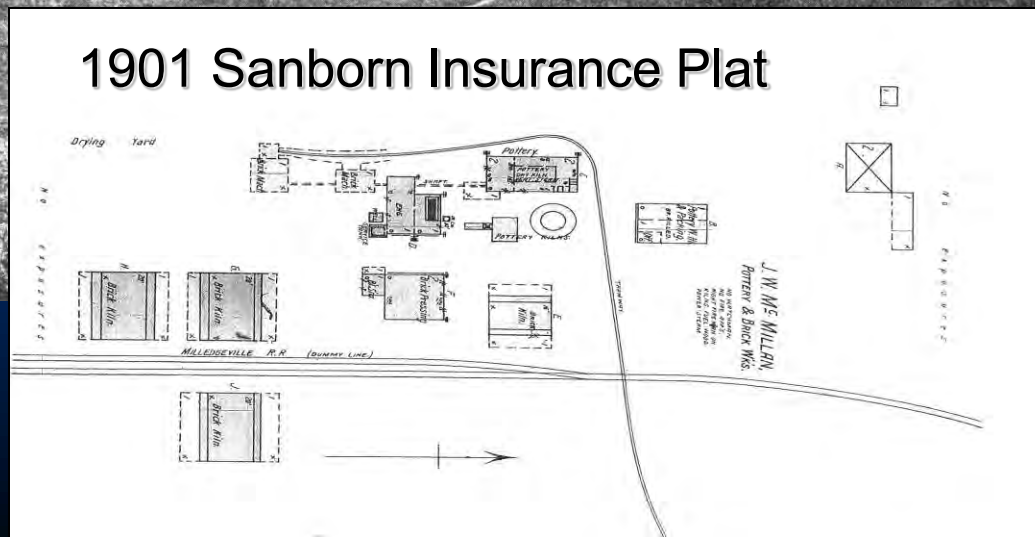


Earliest Known Photo of Brickyard

Ca. 1898 McMillan Brickyard

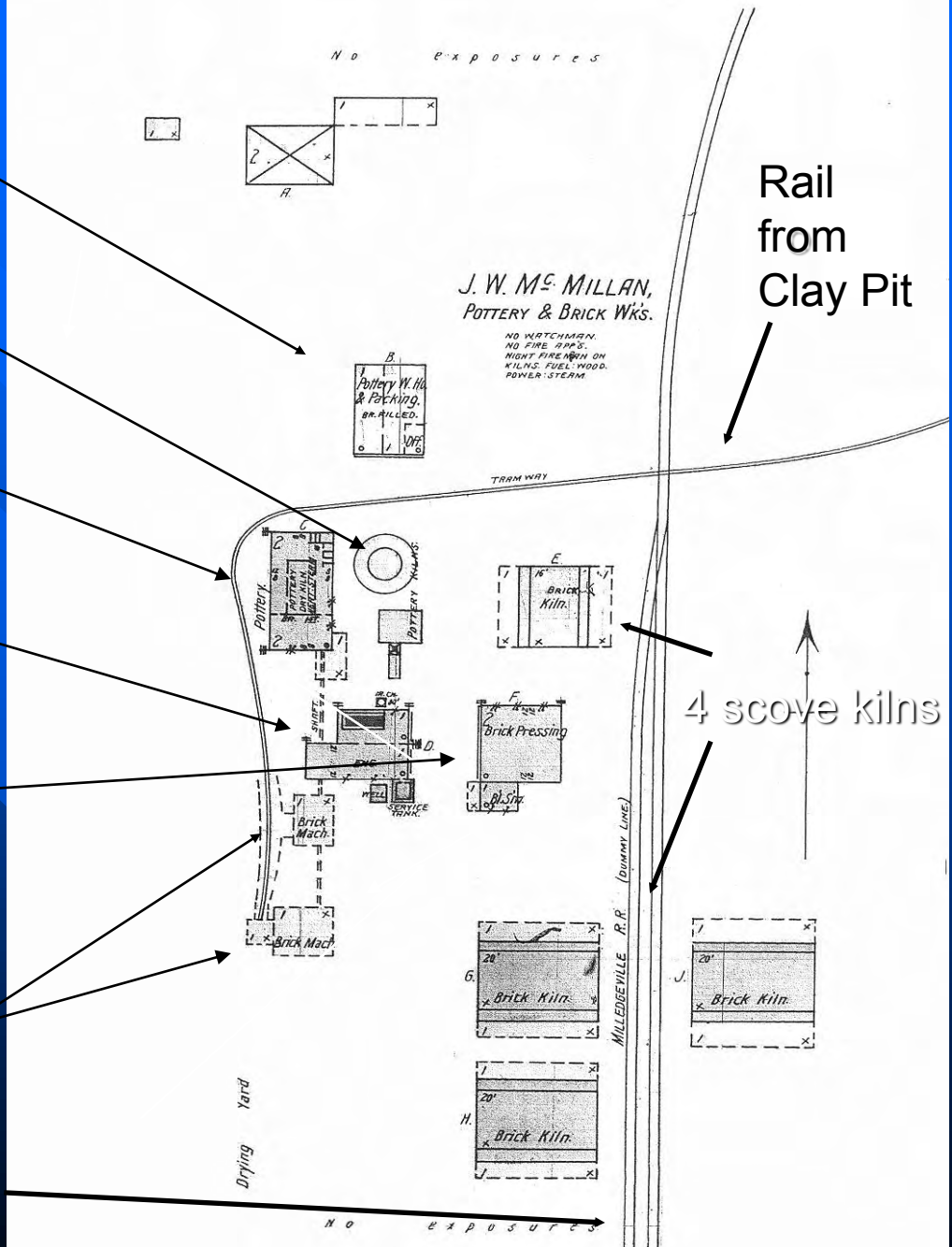


1901 Sanborn Insurance Plat



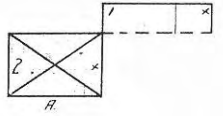
1901 Sanborn Insurance Plat

- Pottery packaging
- Circular Pottery Kiln
- Pottery drying kiln
- Steam engine room
- Brick Pressing
- Brick Machines
- Rail Spur



001 Sanborn Insurance Plat

No exposures

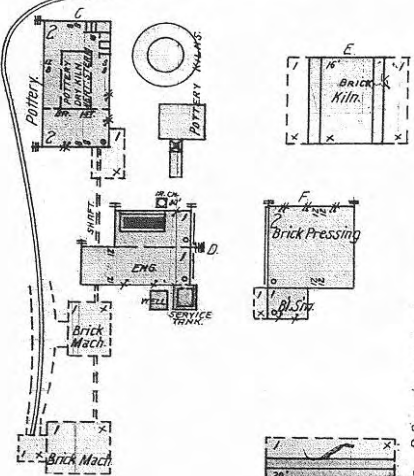


J. W. Mc MILLAN,
POTTERY & BRICK Wks.

NO WATCHMAN.
NO FIRE APPS.
NIGHT FIREMEN ON
KILNS. FUEL WOOD.
POWER STEAM.



TRAMWAY



MILLEDGEVILLE R.R. (DUMMY LINE)



Drying Yard

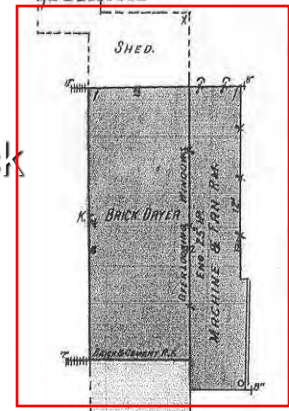
No exposures



E X P O S U R E

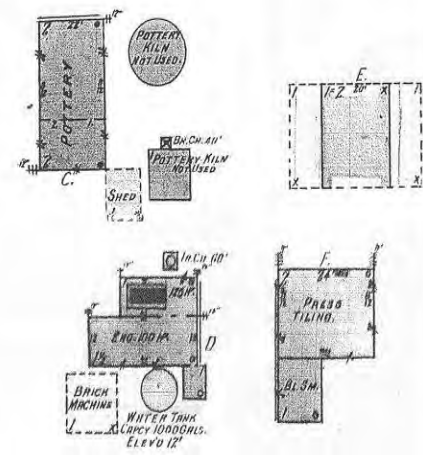
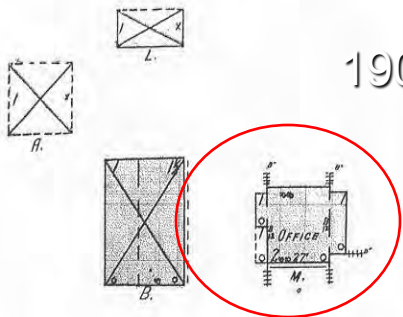
N O

New brick
dryer



1908 Sanborn Plat

New office



J. W. Mc MILLAN
POTTERY & BRICK WORKS

MILLEDGEVILLE R.R.



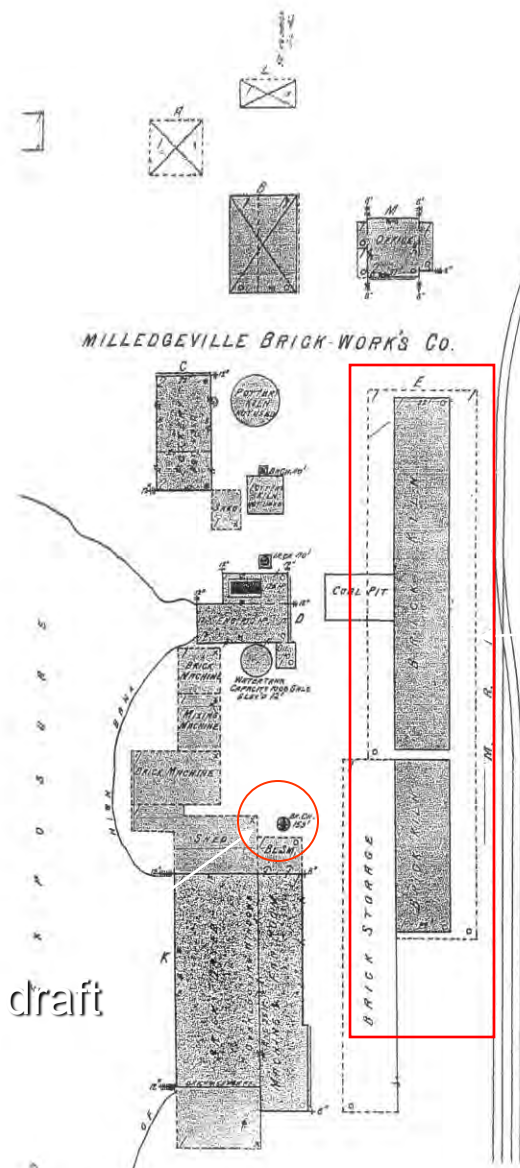
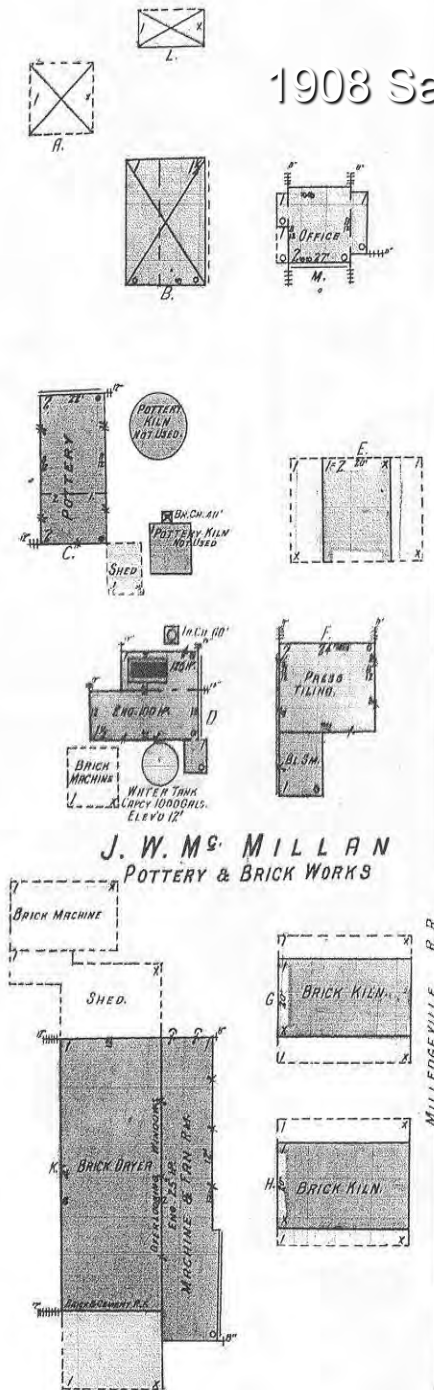
NO WATCHMAN. - NIGHT FIREMAN
POWER STEAM. - FUEL COAL.
LIGHTS OIL. - KILNS FUEL COAL,
WOOD & COKE. - NO FIRE APPS.

Located 1 1/2 Miles E. of Court Ho.

1908 Sanborn Plat

1913 Sanborn Plat

E X P O S U R E

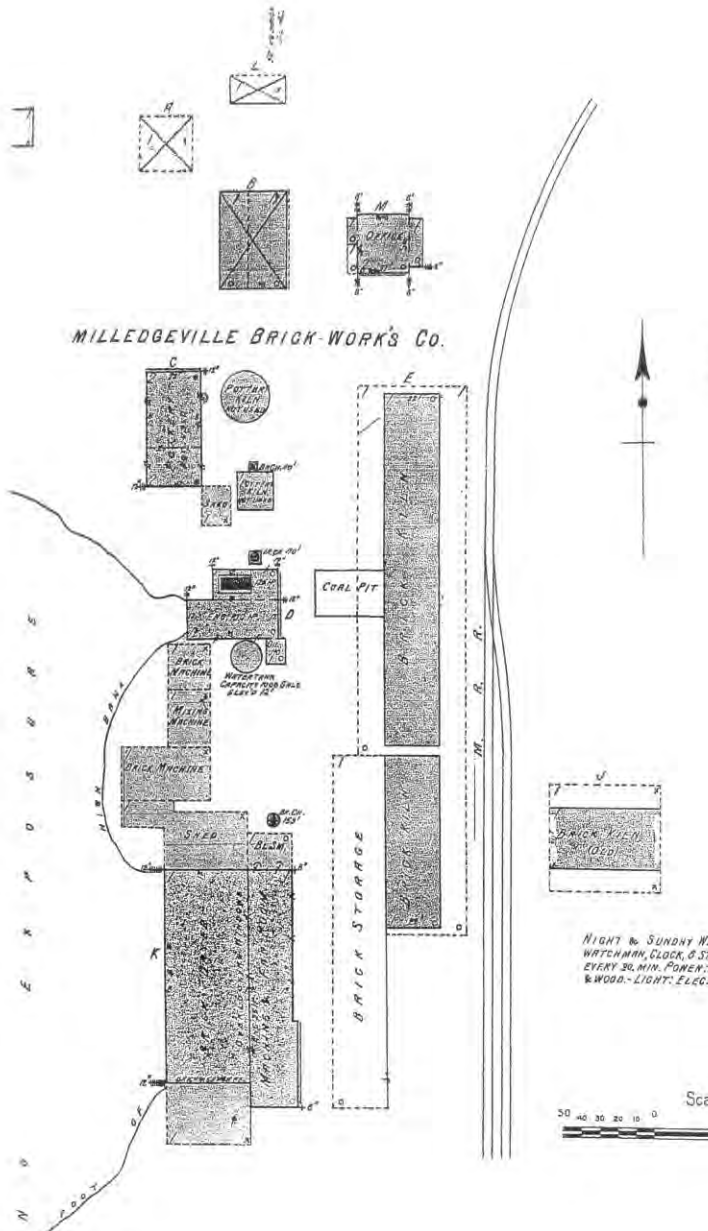


New 150' draft chimney
Located 1/2 Miles E

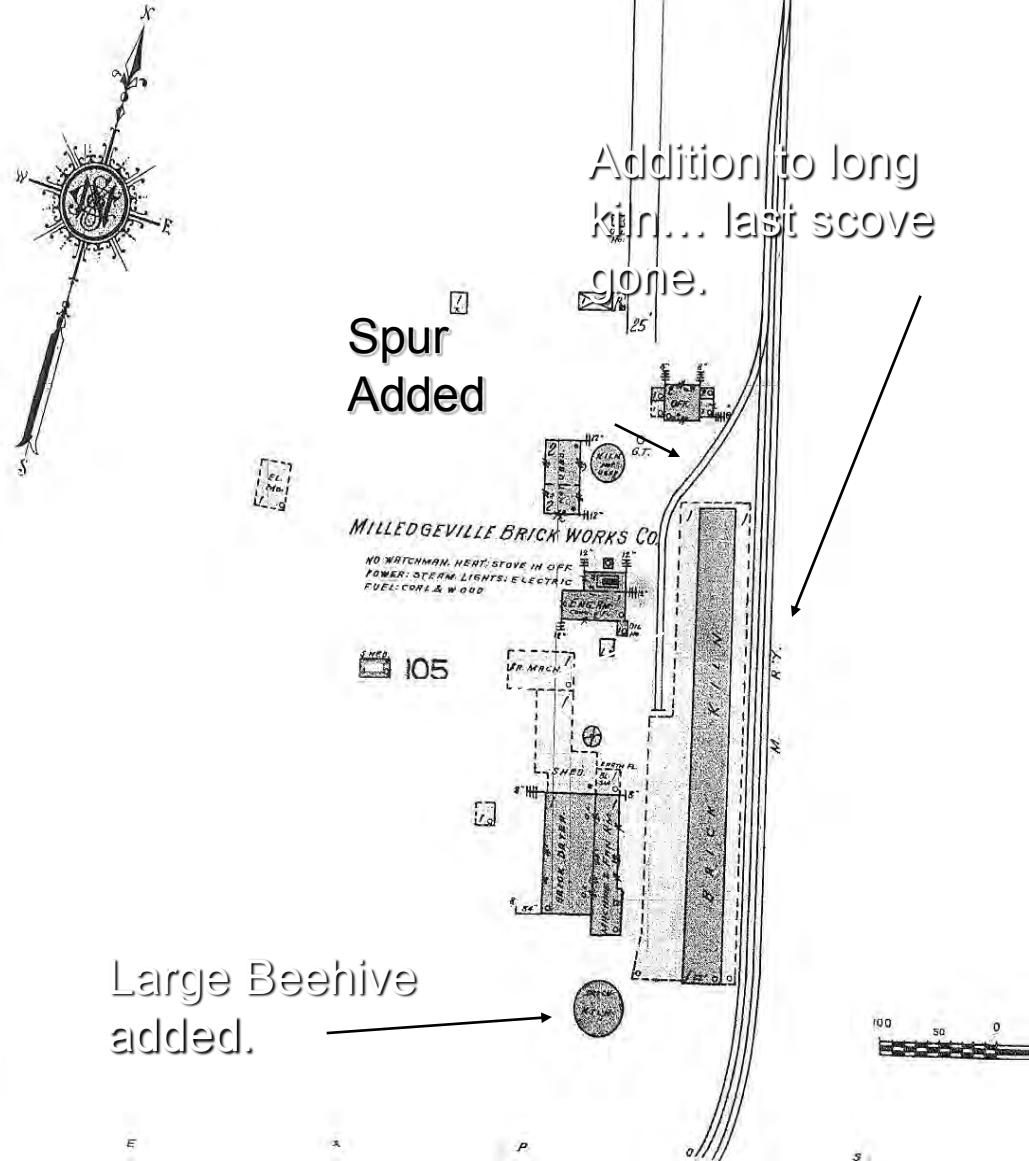
NIGHT & SUNDAY WATCHMAN AMERICAN
WATCHMAN, CLOCK, & STATIONS, ROUNDS
EVERY 30 MIN. POWER STEAM - FUEL COAL
& WOOD - LIGHT, ELEC - NO FIRE APPARATUS.

Scale of Feet
50 100

1913 Sanborn Plat



1926 Sanborn Plat



Addition to long kiln... last scove gone.

Large Beehive added.

The "Long Kiln"

in northern Kentucky is a very bright one.

The Busse brick on the has been ma The plant r flower pots.

A. L. Cray fire clay on high grade o this clay an excellent res hand brick plant at once and will subsequently erect a larger plant after his product has been thoroughly tested.

The Superior Brick Co., located at Lima, O., and a recently formed concern, has just received an order for 2,000,000 brick Co., of Dayton. npany has already mploy 200 men a rn.

First mention of long kiln is in 1926 State Geologist's Report: "...a Haigh semi-continuous kiln with 31 sections..."

Oil vs Grease

An interesting new Booklet on a very interesting subject.

Special reference to **DIXON'S GRAPHITE GREASES**

Copies free on request. **JOSEPH DIXON CRUCIBLE Co., JERSEY CITY, N. J.**

MANGANESE OXIDE

IN EVERY FORM FOR BRICK AND TILE MAKERS.

WRITE FOR PRICES AND SAMPLES

GEO. G. BLACKWELL, SONS & CO., Ltd.
LIVERPOOL, ENG.

Cattles: Blackwell's Codes: A, B, C, 4 and 5 Editions. Morley & Neal's New General: Liebers Standard.

U. S. A. Agents: **THE PENNA. SALT MFG. CO., Pittsburgh, Pa.**

Haigh's New System of Continuous Kiln. Arranged to suit all Locations.

These Kilns can be seen burning Roofing Tile, Dry Pressed Facing, Paving and Common Building Brick. **POINTS OF SUPERIORITY.** Cheapness in Construction. Easy to Understand and Operate. Perfectly free from any nuisance. Will save more than one-half of the fuel used on other Kilns. Specially adapted for Utilizing Waste Heat for Drying Purposes, and which is being done most successfully.

If you want to reduce the cost of repairs on your kiln arches, write me for particulars of Haigh's Kiln Arch Raiser. It will save you fully 60 per cent. ADDRESS,

H. HAIGH, Catskill, N. Y.

THE GREAT HUDSON RIVER BRICK INDUSTRY

*Commemorating
Three and a Half Centuries
of Brickmaking*

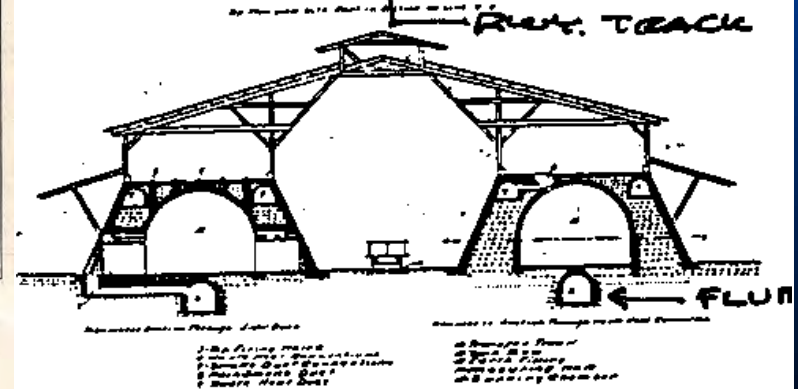
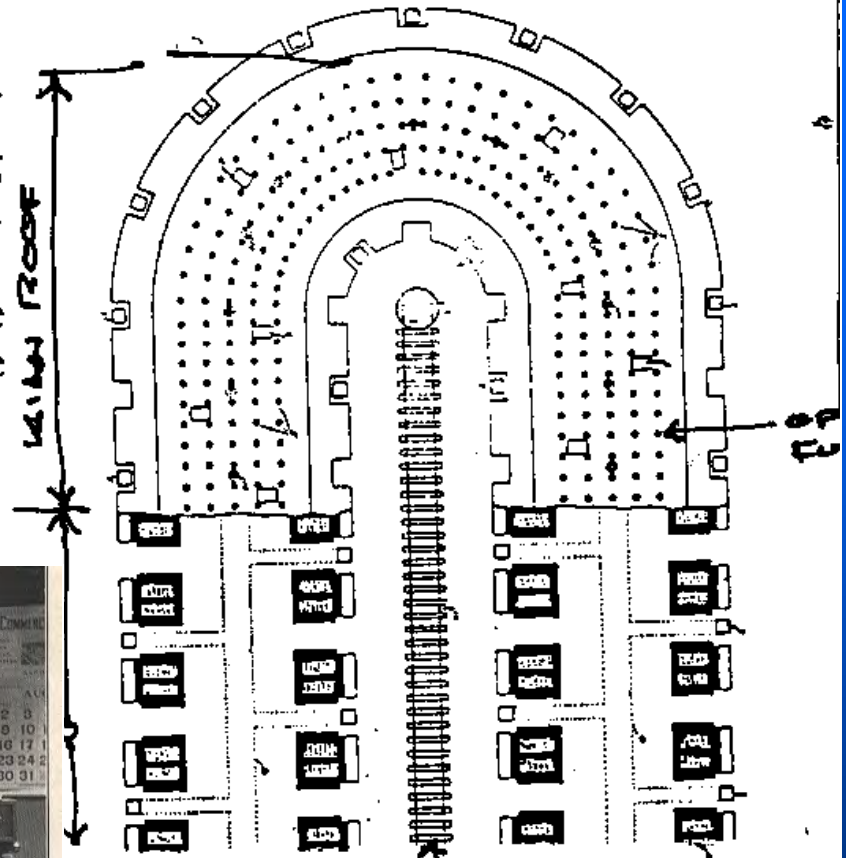


George V. Hutton



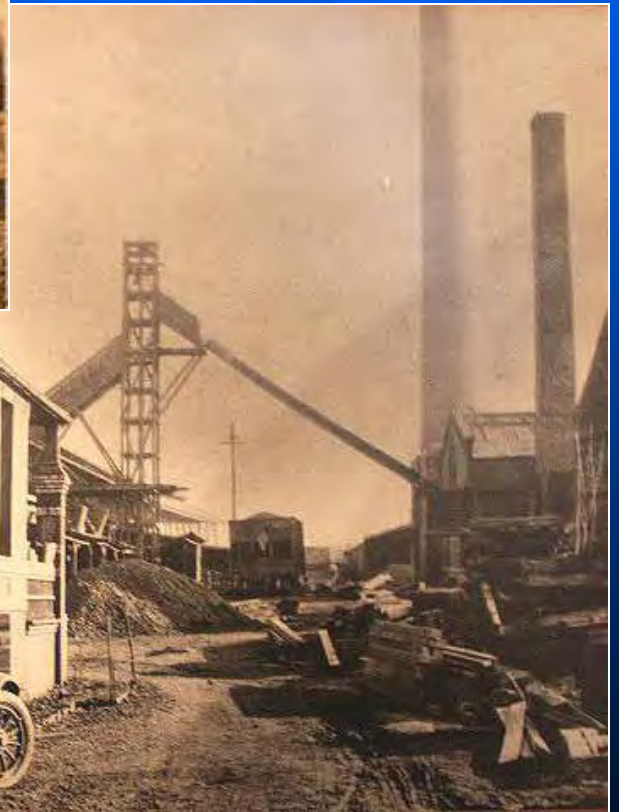
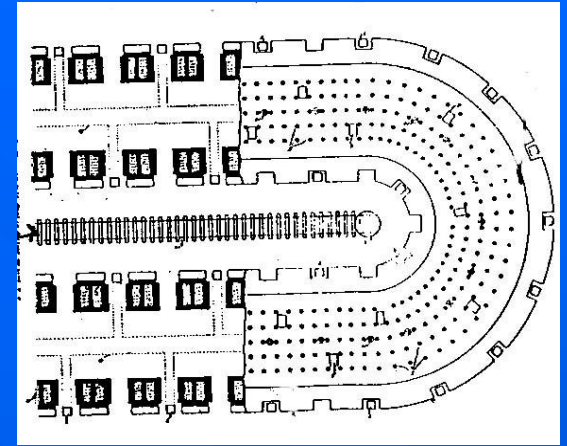
Mr. Haigh, Superintendent of the Kiln Department of the American Clay Machinery Co. at his desk in the Bucyrus, Ohio, office.

of first-class ware of any Kiln on the market.
 A large percentage of first-class ware—is attained with less
 other
 than any
 waste of
 loading
 improved
 of the
 we are
 able
 class



USCS.

... and we will let the users tell you of their



View from back of office with Haigh on left, draft chimney on right. Circa 1915-17 Ford Touring Automobile.



HAIGH'S NEW SYSTEM CONTINUOUS KILN

--- Owned and Controlled by ---
The American Clay Machinery Co.

A Great Fuel Econo-
mizer

A Great Labor Saver

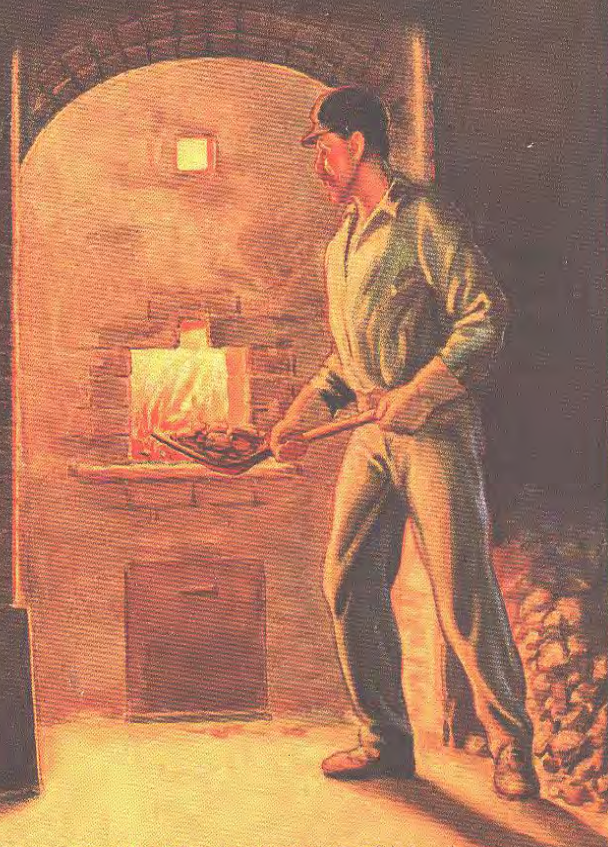
A Great Paving
Brick Burner

A Great Fire-Proof-
ing Burner

A Great Common
Brick Burner

A Practical Kiln,
easy to operate, not
intricate or myste-
rious

Arranged to suit all
locations, capacities
and conditions



THE HAIGH KILN CAN BE FIRED WITH COAL AND
- OIL, WOOD, NATURAL GAS OR PRODUCER GAS -

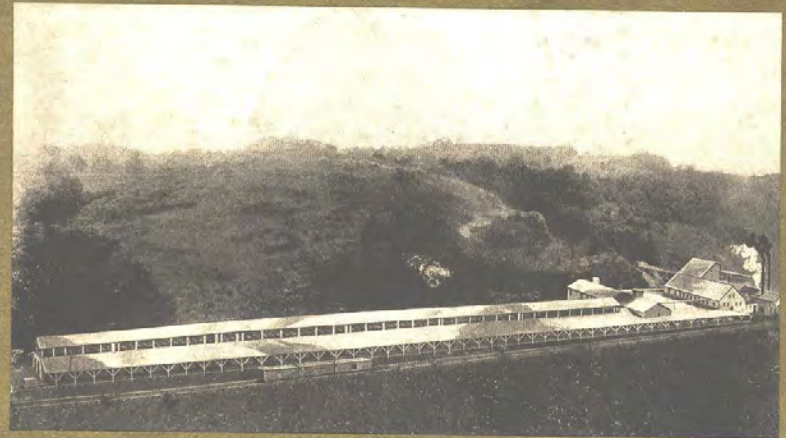
FOR ESTIMATES AND TERMS ADDRESS

THE AMERICAN CLAY MACHINERY CO.

B U C Y R U S, - - O H I O

CAMERA CONSTRUCTION

THE HAIGH KILN
BUILT BY PHOTOGRAPHS



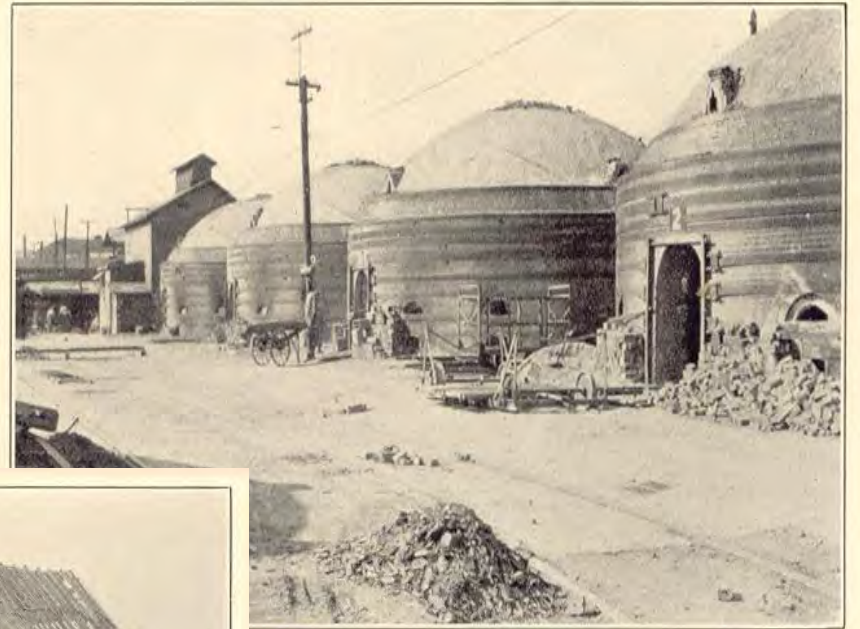
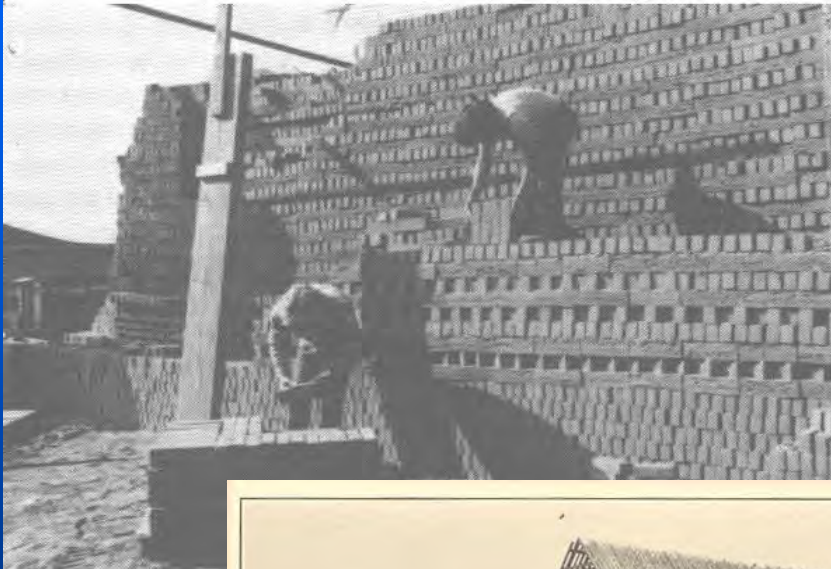
PROGRESSIVE PHOTOS SHOWING
EVERY DETAIL OF BUILDING
A HAIGH CONTINUOUS KILN

*The World's Most Economical
Kiln for Clay Products*

Haigh Semi-Continuous Kiln
from American Clay Machinery
Co. booklet



Some Clarification: Continuous vs. Periodic Kilns



1890 Morrison
“improved” scove kiln,
Chattahoochie Brick Co.

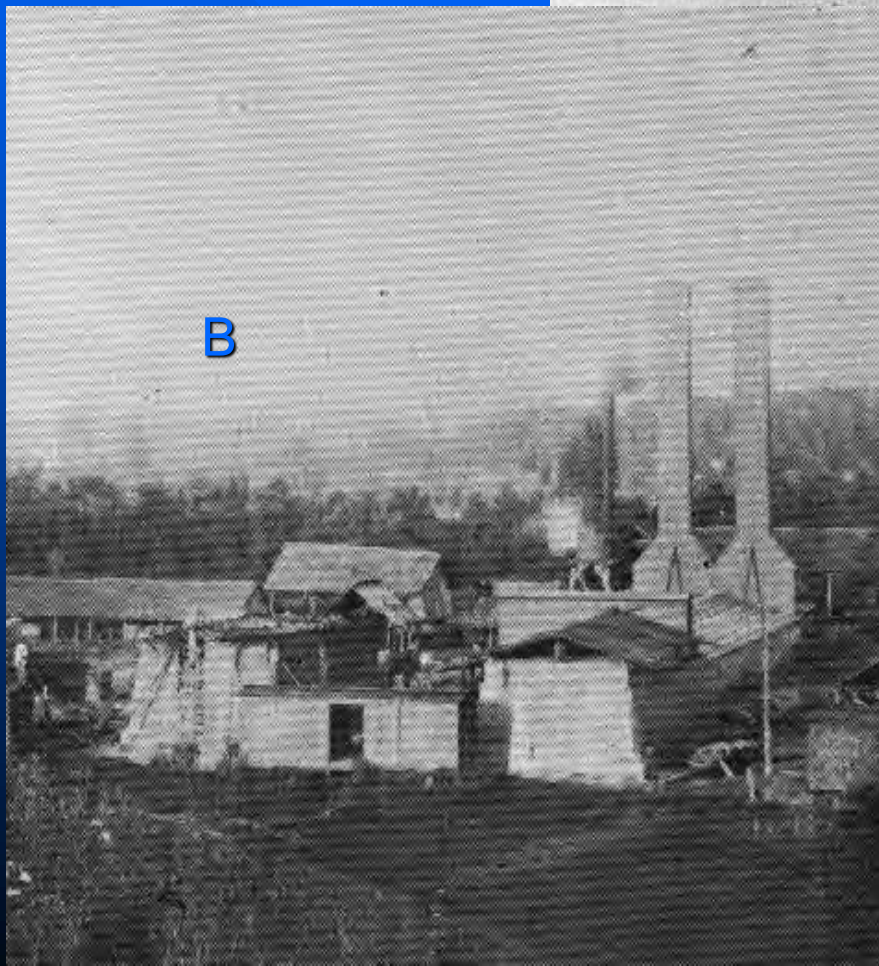
Scove (or Clamp) type kilns are entirely or mostly constructed of the very brick being burned.

Simple updraft Scove Kiln at: A) Hitt Brickyard, Stephens County, ca. 1905-1910; B) two scove kilns at Bickerstaff Clay Products, Columbus GA ca.1902.

A



B

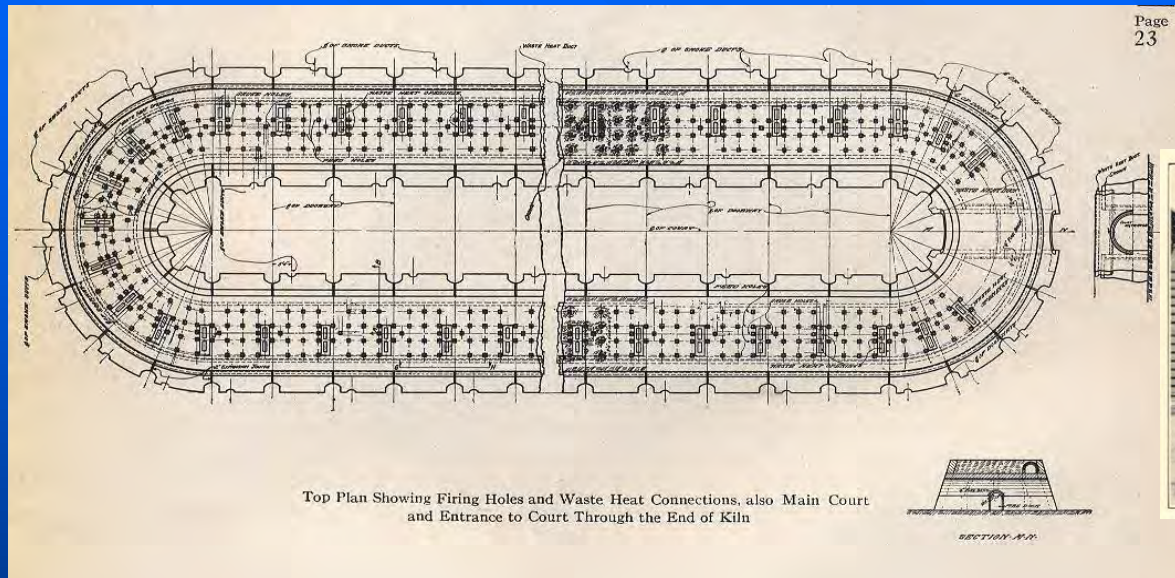


Cherokee Brick, Macon ca. 1931

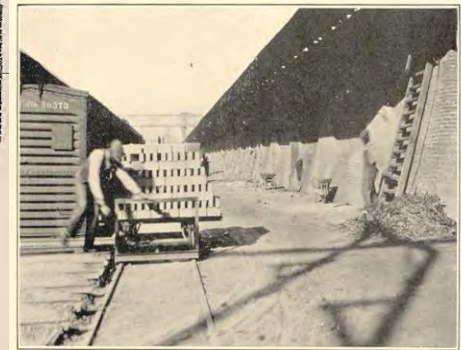


Circular (Beehive) kilns are permanent structures within which brick is burned.

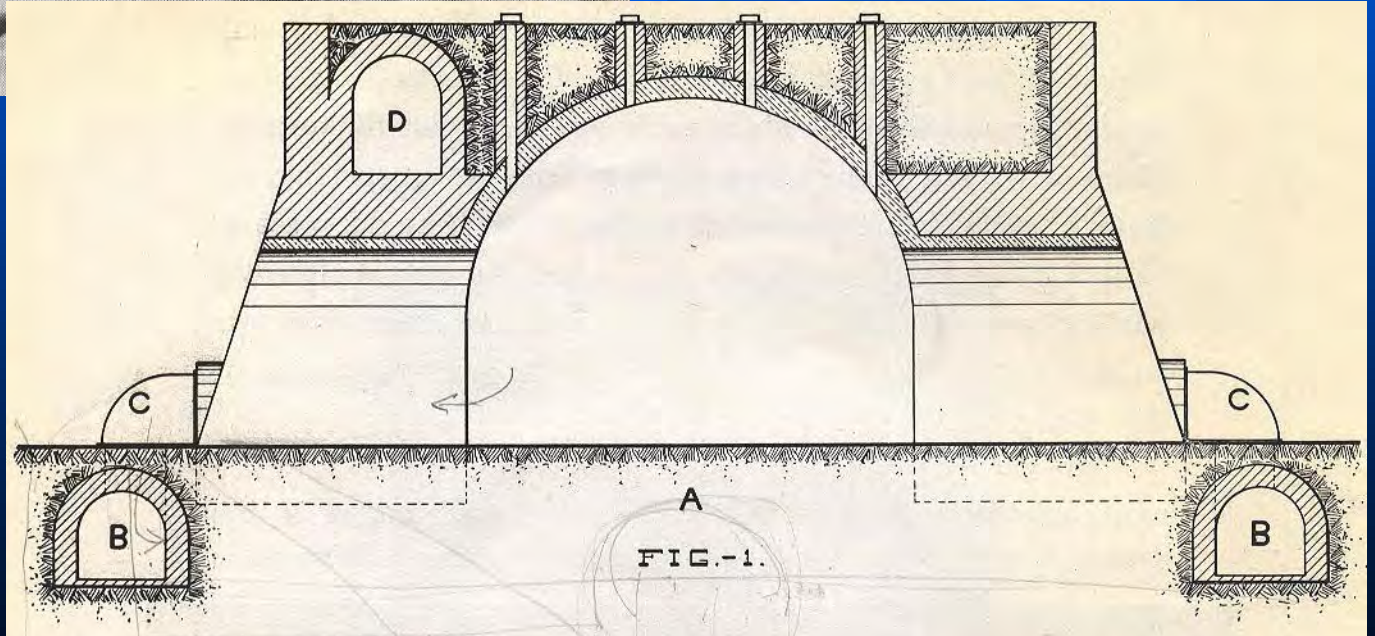
Continuous & Semi-continuous Kilns



Merry Brothers twin
Haighs, Macon









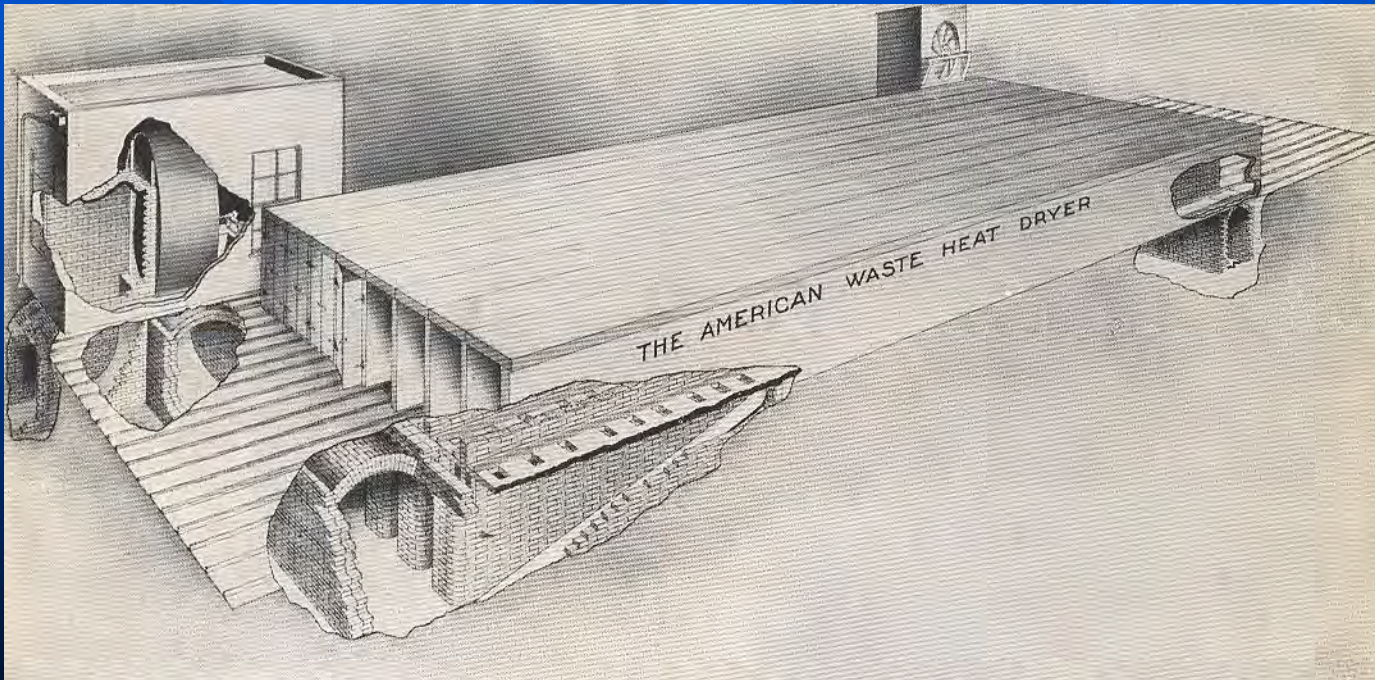
Side Tunnel



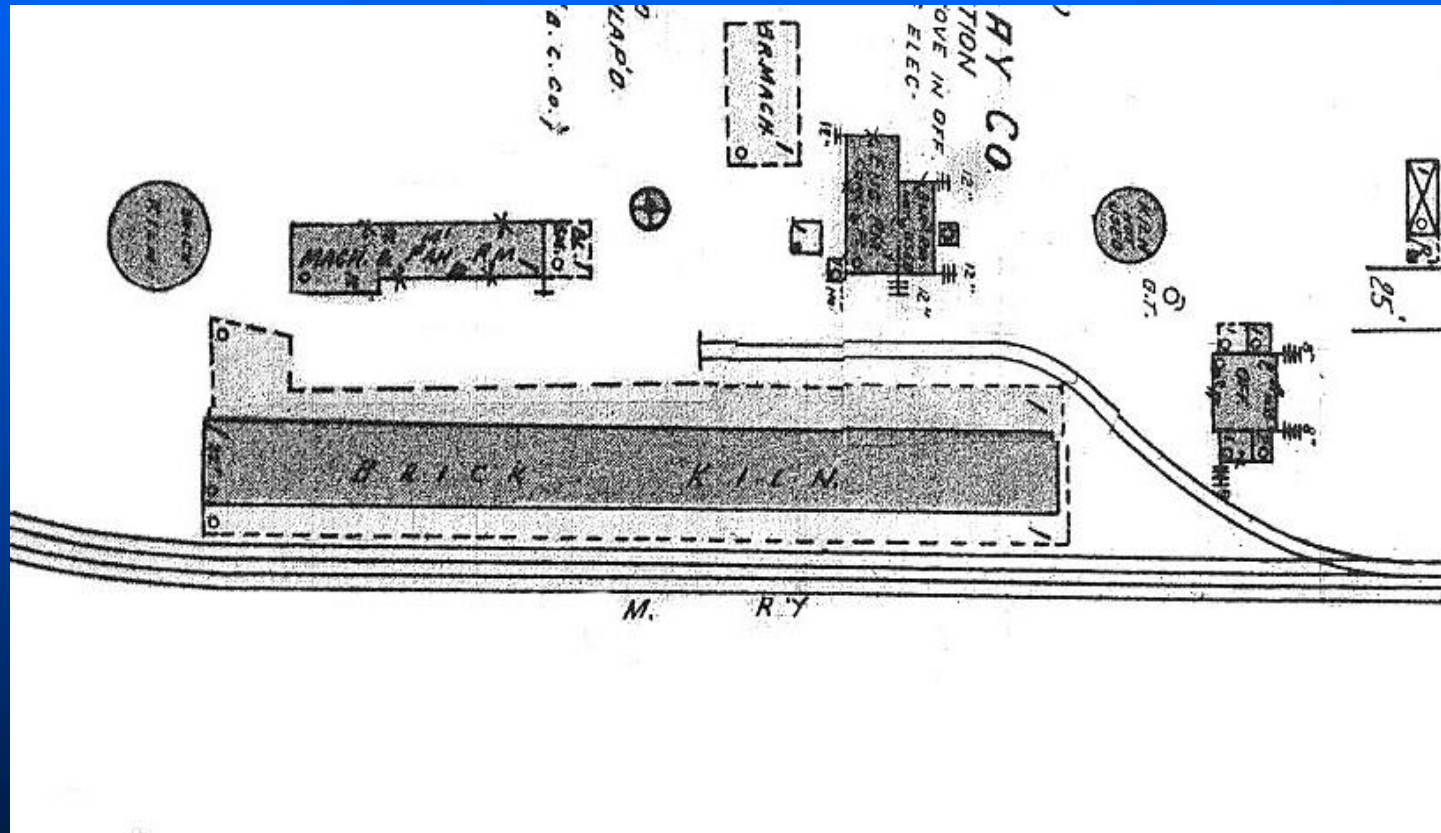


Side Tunnel

Fan House



All Features Identified Through Historic Documentation





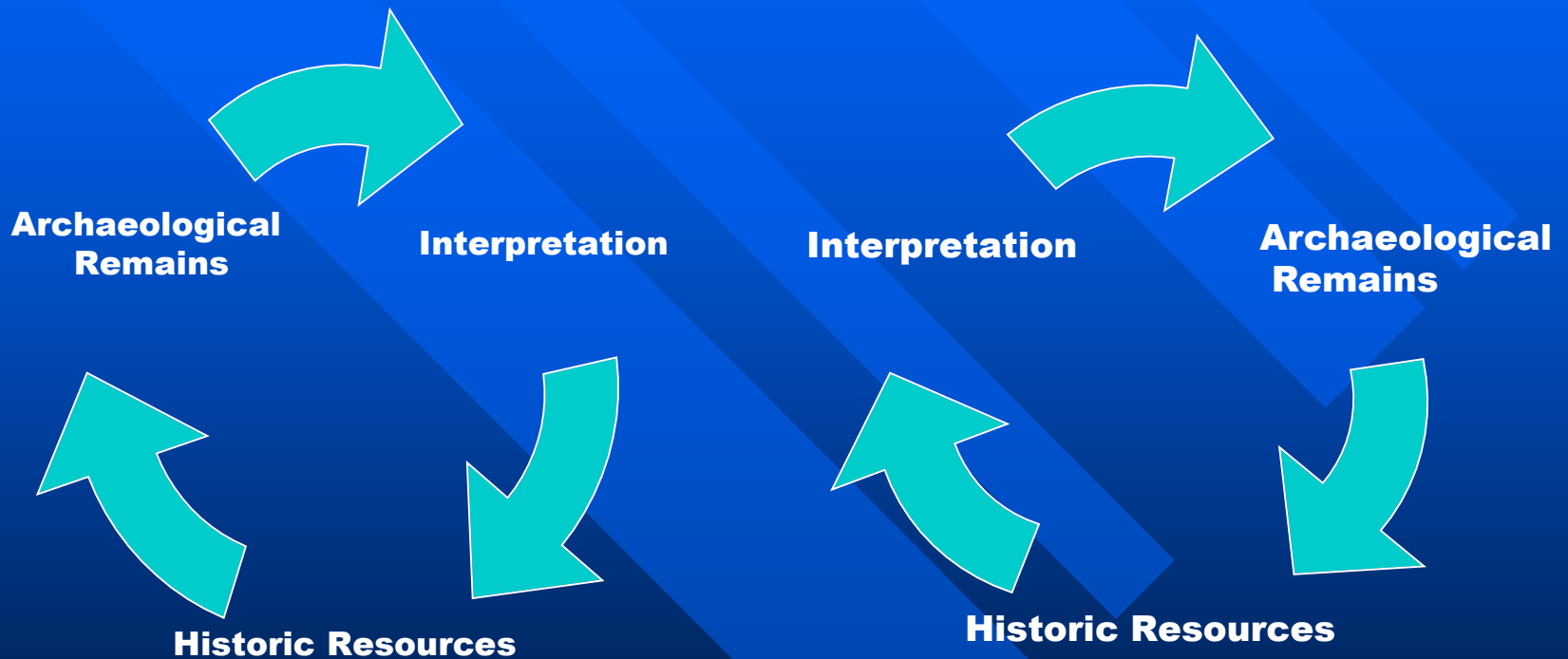
Beehive Kiln Ruins



150' Draft Chimney ruins



The Music Goes Round & Round



THE END



**OF THE BRICK,
THAT IS.**