

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY - NOMINATION FORM

RECEIVED U.S. DEPT. OF INTERIOR
1975

DATE ENTERED OCT 5 1975

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES - COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC Kent Iron Furnace

AND/OR COMMON

Sloane-Stanley Museum

2 LOCATION

STREET & NUMBER

108 Kent St.

Route 7

CITY, TOWN

Kent

VICINITY OF

NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

6th - Toby Moffett

STATE

Connecticut

CODE

09

COUNTY

Litchfield

CODE

005

3 CLASSIFICATION

CATEGORY

PUBLIC

PRIVATE

BOTH

SITE

OBJECT

IN PROCESS

BEING CONSIDERED

OWNERSHIP

OCCUPIED

UNOCCUPIED

WORK IN PROGRESS

ACCESSIBLE

YES RESTRICTED

YES UNRESTRICTED

NO

STATUS

OCCUPIED

UNOCCUPIED

WORK IN PROGRESS

ACCESSIBLE

YES RESTRICTED

YES UNRESTRICTED

NO

PRESENT USE

AGRICULTURE

COMMERCIAL

EDUCATIONAL

ENTERTAINMENT

GOVERNMENT

INDUSTRIAL

MILITARY

OTHER

MUSEUM

PARK

PRIVATE RESIDENCE

RELIGIOUS

SCIENTIFIC

TRANSPORTATION

OTHER

4 OWNER OF PROPERTY

NAME

State of Connecticut
Connecticut Historical Commission

STREET & NUMBER

59 South Prospect Street

CITY, TOWN

Hartford

STATE

CT

VICINITY OF

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE

REGISTRY OF DEEDS, ETC. Kent Town Hall

STREET & NUMBER

South Main Street

CITY, TOWN

Kent

STATE

CT

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

Connecticut Statewide Inventory of Historic Resources

DATE

1975

FEDERAL STATE COUNTY LOCAL

DEPOSITORY FOR

SURVEY RECORDS

Connecticut Historical Commission

CITY, TOWN

Hartford

STATE

CT

NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY - NOMINATION FORM

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NATIONAL
INVENT

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The Kent Furnace National Register of Historic Places nomination includes the stack, ruins and mill race adjacent to the stack along the Housatonic River and the Sloane-Stanley Museum. The acreage (approximately 17) incorporates the whole site of the Kent Furnace operations. Detailed archaeological investigations have not been made to identify all ruins and building sites.

Description of the boundary: 12.26 acres of the Connecticut Historical Commission Sloane-Stanley Museum property and an additional 7 acres (approximately) described by the extension of both the southwestern and northeastern boundaries of the Connecticut Historical Commission property to the near bank of the Housatonic River.

CONTINUAT

Kent I
Kent, CT

17.26 acres

UTM Ref

SIGNIFICANCE

KONE
LINED
MOVED

CHECK ONE

LONGHORN SITE

MOVED DATE _____

ITEM PHYSICAL APPEARANCE

of the Sloane-Stanley museum of it illustrating the process of iron- the 19th century, and specimens. In addition to the furnace, the site is of a saw and grist mill.

ack itself. Built at the bottom of sides slope inward as they rise to arched portals, the main opening hick walls of the stack are.

as random ashlar. Iron plates and Inside, the diameter of the bosh ers of fire brick are partially this has accumulated at the bottom

1826 with a cold blast and was 28' st furnace somewhat larger, and in ns. The blast was generated by a lowing tub; two pistons of 50" bore maintained a constant pressure. thin a brick oven 20' high which air was driven downward to the es), 3" in diameter, cooled by

site included several wood sheds to d with anthracite in the ration of sed by wooden frame structures. situated the operation of the furnace. carrying ore, lime and charcoal. At this the casting house, where molds for iron and slag were drawn off. These ed semi-permanent, since frequent their alteration or replacement

PERIOD		AREAS OF SIGNIFICANCE - CHECK AND JUSTIFY BELOW							
PREHISTORIC	ARCHAEOLOGY PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION					
1400-1499	ARCHAEOLOGY HISTORIC	CONSERVATION	LAW	SCIENCE					
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE					
1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN					
1700-1799	ART	ENGINEERING	MUSIC	THEATER					
1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	TRANSPORTATION					
1900	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	OTHER (SPECIFY)					
		INVENTION							

SPECIFIC DATES 1870 - last rebuilt BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

In the middle of the 19th century, the Housatonic region of Connecticut was one of the most important sources of iron in the country. Twenty-seven furnaces were in operation in 1840, and many more in adjacent areas of New York and Massachusetts. The area supplied four essentials - iron ore, lime, hardwood for charcoal and power to operate the blast. The development of railroads stimulated the industry by making transportation cheaper and by creating a demand for iron. Yet most of the iron works declined in the 1820's and 1830's, and although competition from Pennsylvania steel was the obvious reason, there were intrinsic problems also: local ore was becoming harder to find, charcoal was getting scarce, and the blast furnaces of the region were dependent upon a non-mechanized, small-scale technology.

The Kent Furnace is significant because it is one of few remaining stacks. Typical of the furnaces of the region, it is an impressive artifact of a particular stage in the nation's industrial development. The physical remains are important for the historian or industrial archaeologist intent on reconstructing the organization of work and resources which characterized the industry. Yet the furnace is also interesting for anyone who wishes to gain a feeling for the process of iron-making before the age of steel mills. Finally, the furnace site is significant because iron-making had such a great impact on the lives of the people in the region. It is an indispensable part of the local heritage. The value of the furnace is enhanced by its accessibility and by the museum's educational exhibit.

Initially, the raw materials for the furnace were all produced in Kent. Ore was dug from the side of a mountain in South Kent, and all the mountains in the area were sites for charcoal-making. Lime was also quarried in Kent. Numerous teamsters were needed to assemble the resources in one place: 10 to 12 teams hauled ore the six miles to the furnace, and others brought charcoal and lime and hauled finished iron to the railroad. In order to feed the horse and oxen, the Kent Iron Company, a company composed of local men, grew its own grain on land around the furnace, ground it in the nearby mill, and fed it to the animals in its own barns. Although its output - 14 tons per day - seems small, the furnace had considerable impact on its immediate vicinity. Such local vertical integration proved less productive, however, when local resources began to falter: by 1830 surface ore had run out, and deep shafts were dug. The company brought in ore from other mines in Connecticut and New York. Even earlier, however, the furnace was being charged with coal as well as charcoal to conserve the dwindling supply of hardwood. The operation finally shut down in 1892.

Most Kent iron was used in the manufacture of railroad locomotives and other heavy industrial equipment. Despite its destination, however, the iron was produced by a process which relied on a very traditional technology. Iron is sensitive to the presence of other elements - manganese, carbon and sulphur,

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
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DEC 16 1975

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Kent Iron Furnace

8

one

particularly - and different results are produced by different proportions: Kent iron was made to order in six degrees of hardness. The quality of the product depended directly upon the skill and judgment of the ironworkers: among other things which affected the outcome were the number of cartloads of each material and the rate at which they were dumped into the furnace, the speed of the waterwheel, the size of the charcoal and ore chunks and even the way in which the carts discharged their load, since proper mixing of the components was as important as their proportion. Unlike the newer methods of steel, iron-making was not capable of unlimited increase in the scale of operations, nor could the processes be made independent of the skill of the workers. For these reasons, as well as their reliance on basically local resources, iron furnaces such as Kent were out of step with the development of industrial capitalism.

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PAGE

Kent Iron Furnace
Kent, Connecticut

10

1

17.26 Acres

UTM References: A 18/6273³⁵/4621²² 740
B 18/627240/462147³⁵ 470
C 18/627277/462142²² 630
D 18/627242/462165²² 860

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Sloane-
incorporates
Detailed
to identify

Connecticut
property and an
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AM 5 1977
AM 5 1977

Smith, Alfred, May 1949, p. 9, 17, 29, 30; cont. in IX, No. 1.
Keith, Herbert C. and Charles Rufus Marte, The Early Iron Industry of Connecticut,
New Haven: Peck and Noel, 1915.
Rolando, Vicino, "Great Furnaces of Connecticut," unpub. MSS., Connecticut Historical
Commission, Hartford, CT.

10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY

UTM REFERENCES

A	B	C	D	E	F	G	H
16	2	7	2	6	0	4	6
ZONE	EASTING			NORTHING			

A	B	C	D	E	F	G	H
1	2	3	4	5	6	7	8
ZONE	EASTING			NORTHING			

VERBAL BOUNDARY DESCRIPTION

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE CODE COUNTY CODE

STATE CODE COUNTY CODE

11 FORM PREPARED BY

NAME / TITLE

Bruce Cloutette, Consultant

ORGANIZATION

Connecticut Historical Commission

DATE

October 31, 1975

STREET & NUMBER

59 South Prospect Street

TELEPHONE

(203) 556-1005

CITY OR TOWN

Hartford

STATE

CT

12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION

THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:

NATIONAL

STATE

LOCAL

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

TITLE STATE HISTORIC PRESERVATION OFFICER DATE 12/12/75

FORMS USED ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

ATTEST

John H. Smith

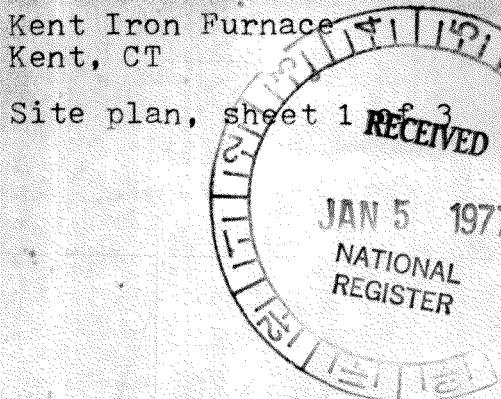
DATE

10-6-77

EXPIRES

12-31-77

Q-0 418-147



MAGNETIC
1968

N
E
S
W

LAND N/F
JOHN E. CASEY

1 1/2
504.54' 235.06' 0'-
S 39° 20' E 269.44'

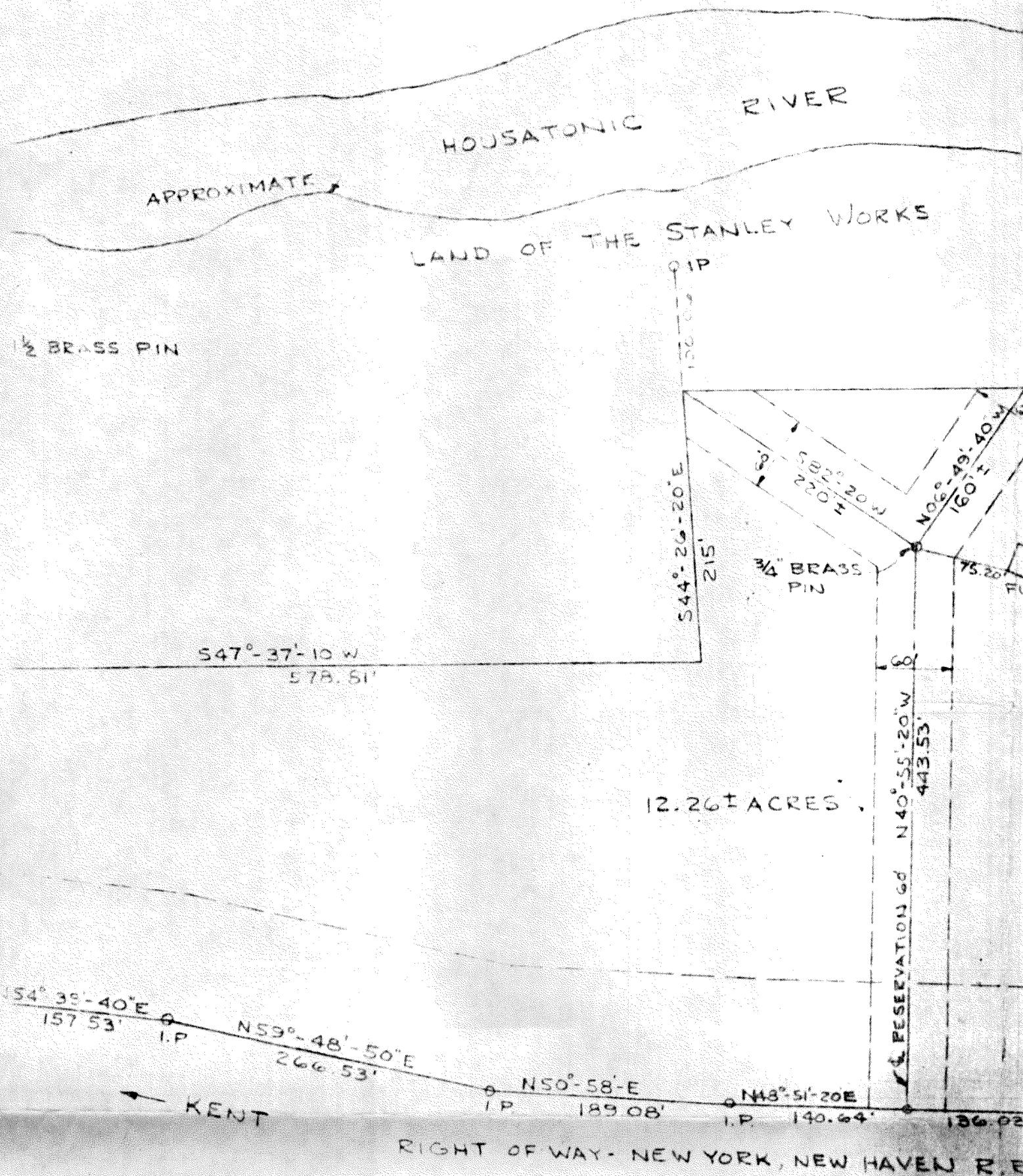
N54°

1 1/2 BRASS PIN
AT BASE OF
3' OAK TREE

BY CONN. HIST. SOC.

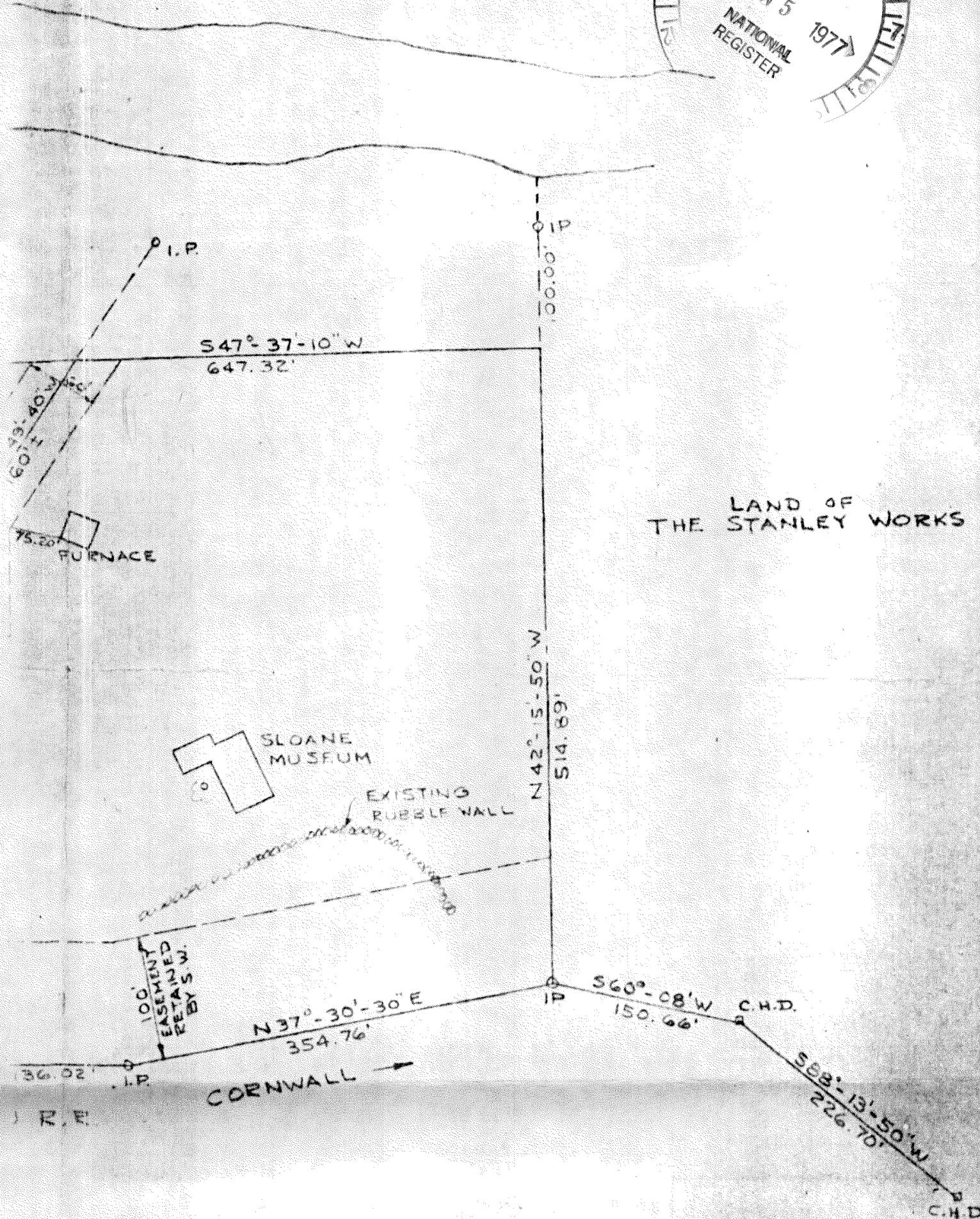
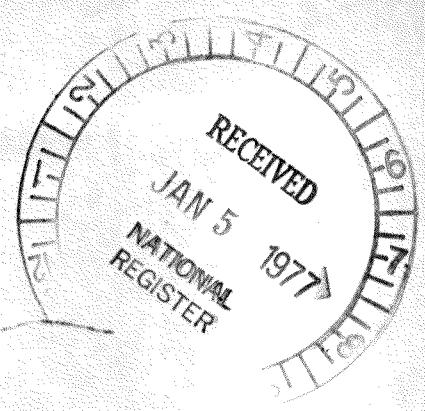
Kent Iron Furnace
Kent, CT

Site plan, sheet 2 of 3



Kent Iron Furnace
Kent, CT

Site plan, sheet 3 of 3

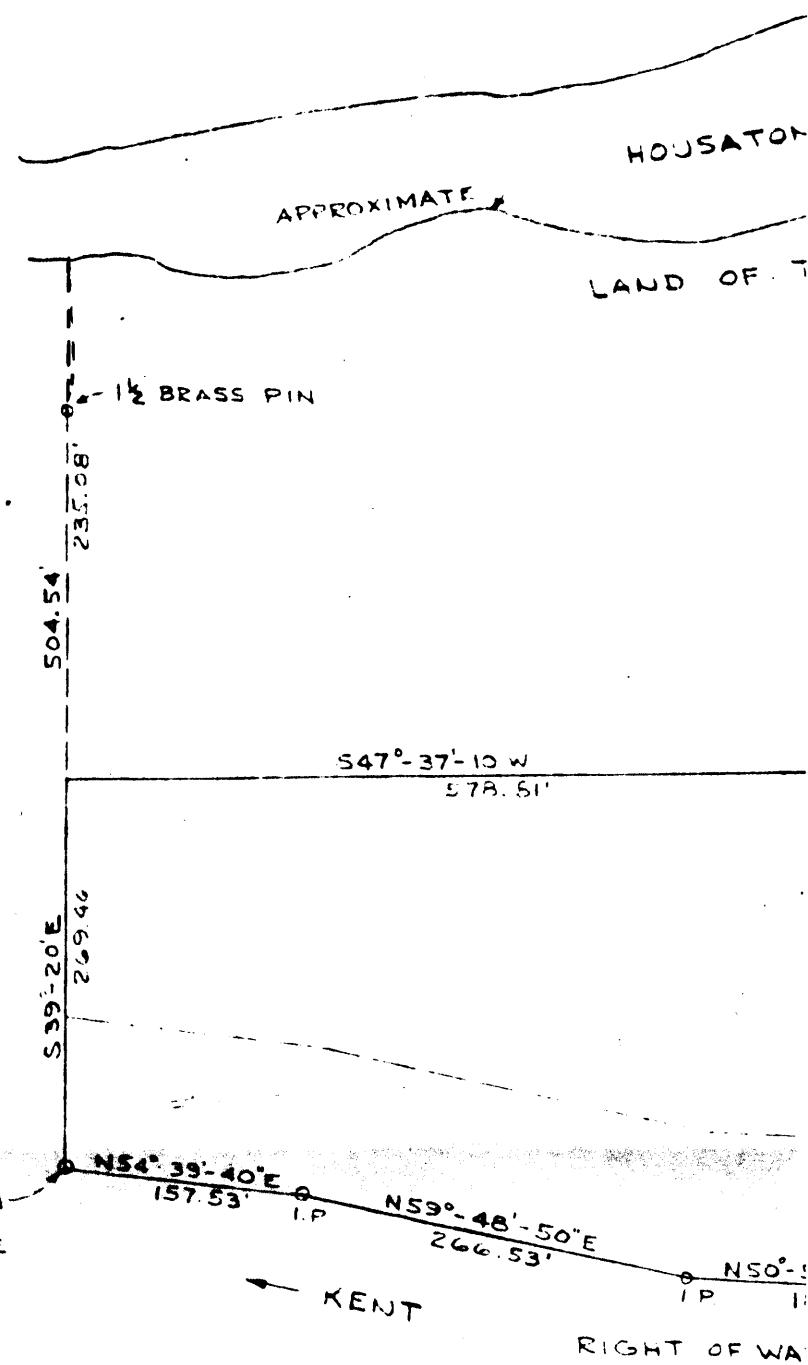
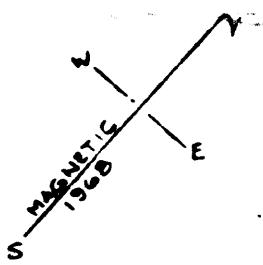


THE STANLEY WORKS

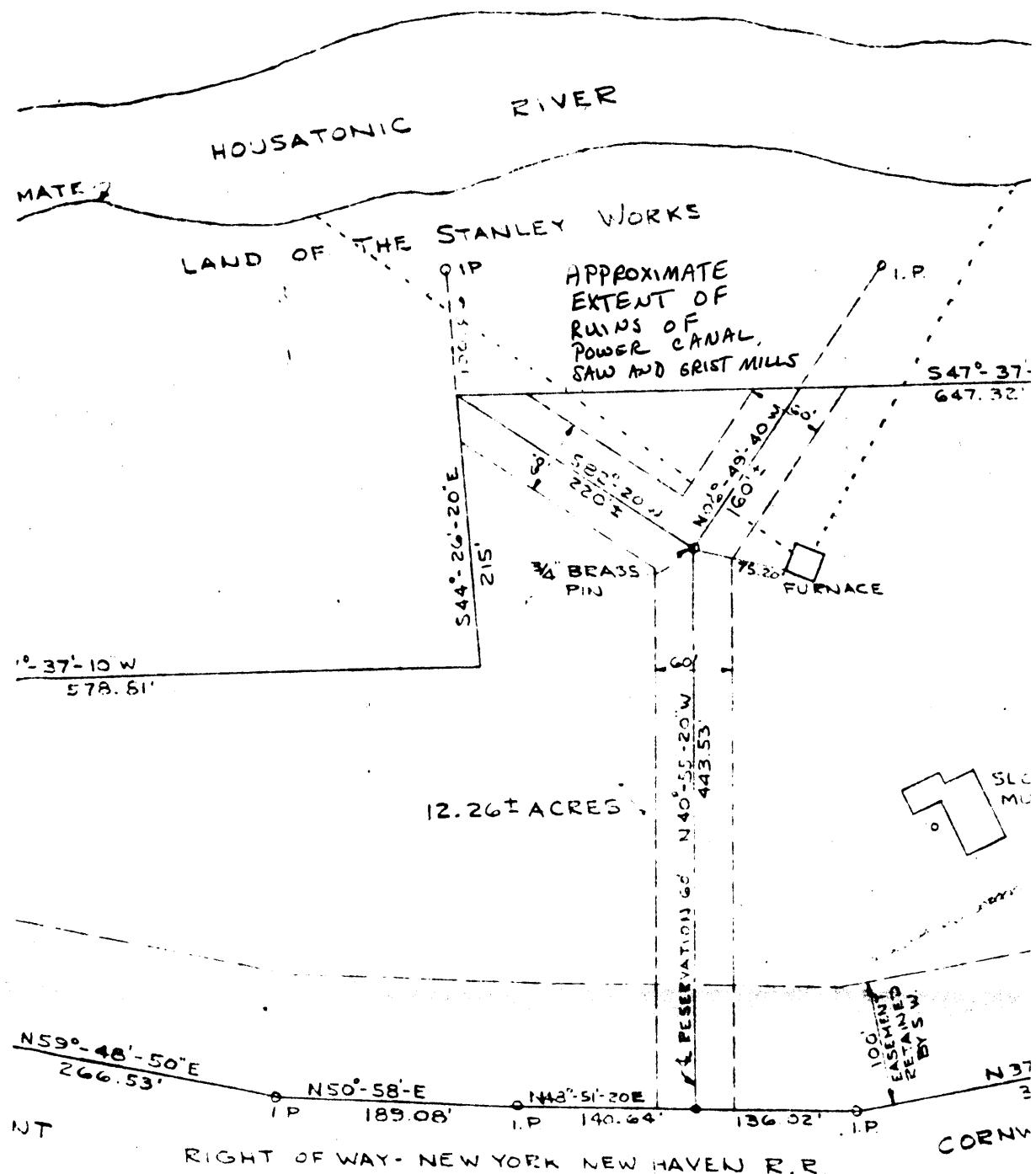
PLAN
OF LAND
CONVEYED TO
THE STATE OF CONNECTICUT
KENT CONN.

KENT IRON FURNACE
KENT, CT LITCHFIELD COUNTY

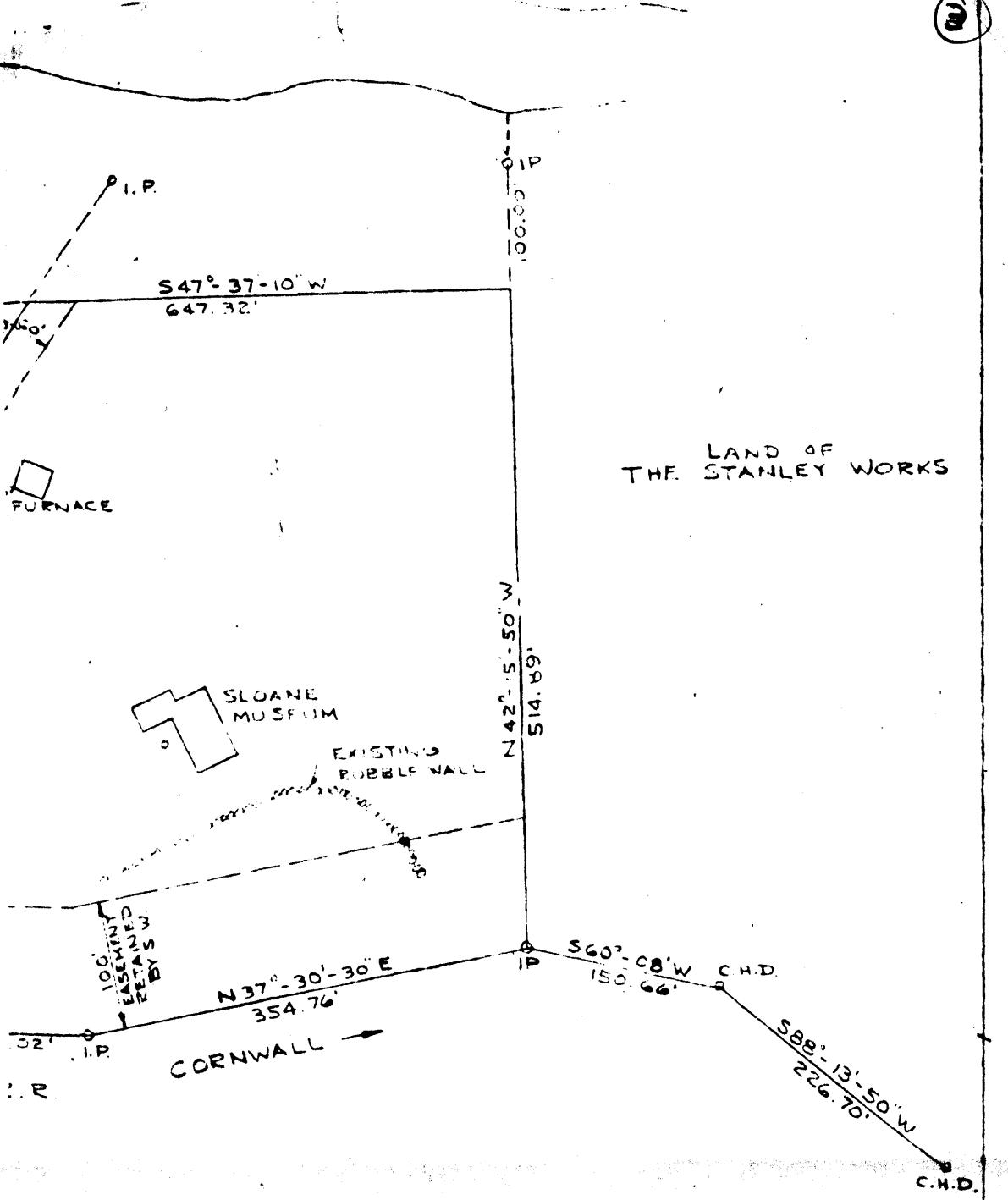
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(2)



T+



THE STANLEY WORKS
PLAN
OF LAND
CONVEYED TO
THE STATE OF CONNECTICUT

KENT CONN.

SCALE 1" = 100'

C. H. NICKERSON P.E. TORRINGTON, CT.
 DEC. 26, 1968

RTIFY THAT THIS MAP IS SUBSTANTIALLY CORRECT.