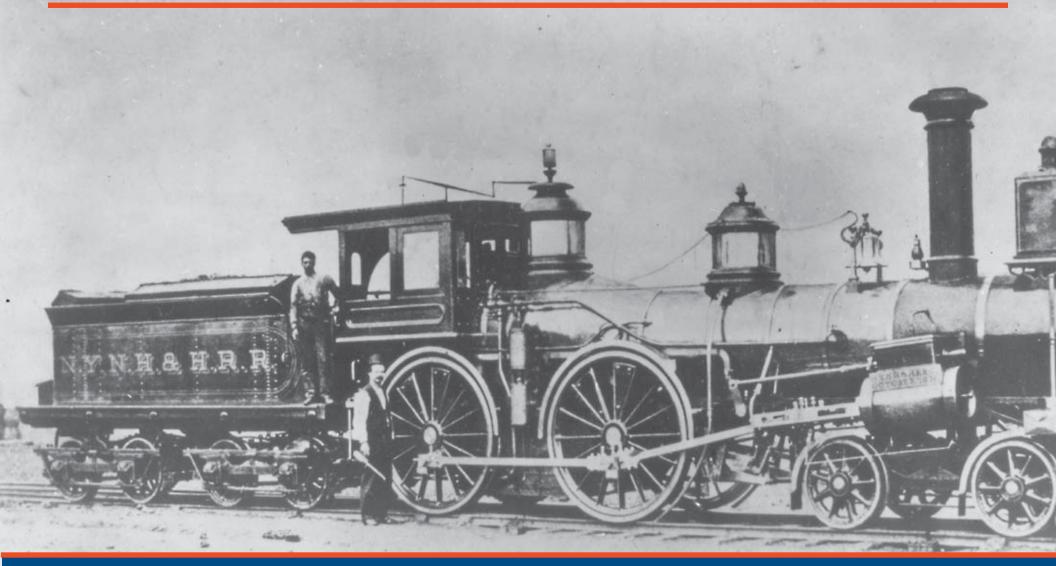
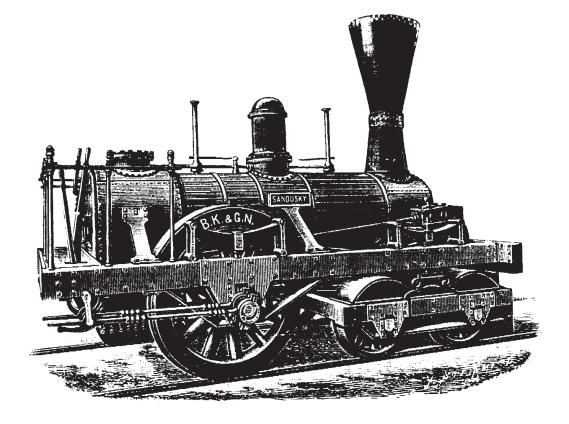
# Can't Ya Hear The Whistle





New London Engine House and Turntable Archaeological Preserve New London, Connecticut



Above: Photograph of the Sandusky, the first locomotive produced by the Rogers, Ketcham & Grosvenor Company in 1837.

FrontCover:RogersandCompanyEngine,1852.AllynFullerCollection, Dodd Research Center, UConn.

Back Cover: Historic American Engineering Record photograph of the interior of a 19th century Engine House.

### Can't Ya Hear The Whistle Blowin'

New London Engine House and Turntable Archaeological Preserve 2003

**Publication Team:** 

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This document has been funded by the New London Development Corporation through a grant from the Connecticut Department of Economic and Community Development under the administration of Governor John Rowland.



## Introduction

"Can't ya hear the whistle blowin'
Rise up so early in the morn"



The haunting sound of a train whist leblowing, the engineer's call of "All Aboard," and the billowing black clouds of the coal-fed iron horses were all part of the American way of life. All over the country, songs and legends about life on the railroad have been repeated for generations. For those of us who grew up fascinated by trains and how their rumbling presence on the landscape evoked dreams of far off places, we are all too aware of their slow disappearance from the country side and their gradual replacement by a vast network of paved roads and highways.

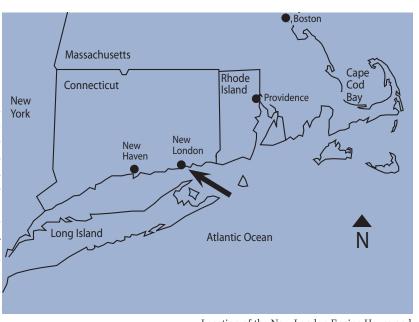
Once a pivotal part of the Northeast's growth and economic success, the popularity of trains has waxed and waned over the last century. As tracks were laid down and ripped up, and depots and roundhouses were built, only to be razed and paved over, this important aspect of American

history has slowly been whittled away. Our memories and records of these events are fleeting, but the remnants of some of these onceprominent features still remain buried beneath layers of 20th century development.

This once-prominent industry has also left an imprint on our landscape. As many of the old railroad tracks and buildings disappear, historians and archaeologists are studying components of the former railroad network. One of these

important, but now forgotten railroad sites is located in the City of New London.

During the late 1990s, the New London



Location of the New London Engine House and Turntable Archaeological Preserve.

# The New London Engine House and Turntable Archaeological Preserve

"We are only passengers on the last train to glory" Arlo Guthrie

Development Corporation began a large-scale improvement project in the Fort Trumbull area of New London. As part of the project, archaeologists investigated the former Amtrak rail yard, located on the north side of Walbach Street

along the main route of the railroad. The examination of old maps and documents indicated that a mid-19th century turntable and engine house of the New Haven and New London Railroad were once standing in this location. The resulting archaeological investigation found the remains of these early railroad features buried under the modern rail yard. This booklet is designed to introduce you to the history of the New Haven and New

London Railroad, the development of small railroad Engine Houses, and the results of the archaeological investigations of this important state Archaeological Preserve. A glossary and sources of additional information are included at the end of the booklet. (Information about other Connecticut archaeological preserves can be found on the inside back cover.)





New London

Nineteenth Century View of the New London Harbor.

"The eastern states are dandie so the western people say"

The 19th century was a period of change for the waterfront community of New London. During the first half of the century, the city was the third largest whaling port in the United States. Commercial businesses associated with whaling had almost completely replaced the older 18th century residences along the waterfront. The construction of massive wharves, piers and warehouses was evidence of the economic boom that the whaling industry brought to the city.

The economy changed dramatically for the residents of New London just after 1845, when

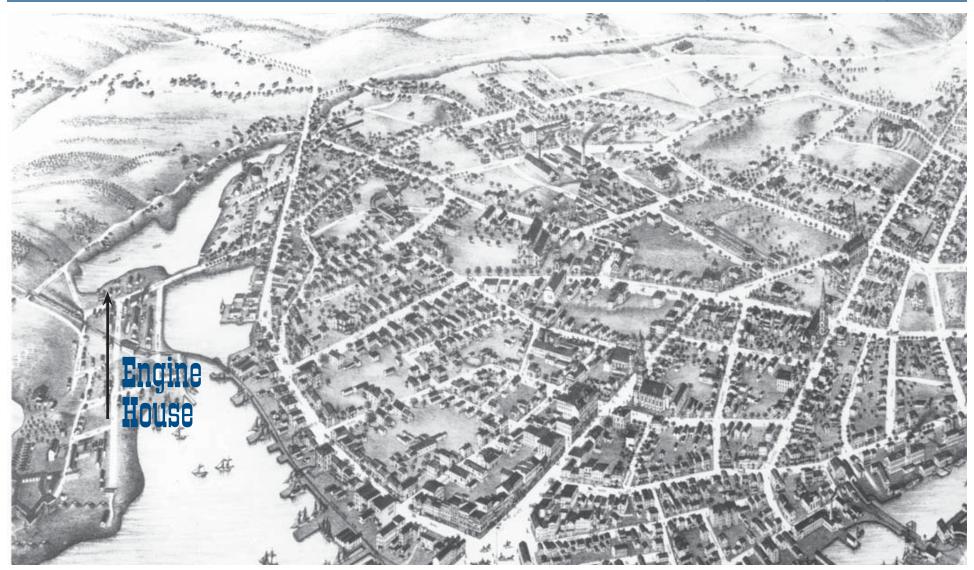
whaling was at its most profitable. The depletion of the whale pop-

ulation and the increased use of alternative fuels (gas, coal, and kerosene) triggered the swift decline of the whale oil industry. Although fishing continued as a major source of income, New Londoners began to search for other means of making a living. One of the most influential factors in the late 19th century development of the city was the introduction and development of steamship and railroad lines, which concentrated on the movement of freight. New London's location at the mouth of the Thames River on the Long Island Sound made it ideal as a transfer point for freight up and down the Atlantic coast as well as from inland towns and cities. The atmosphere was ripe for the introduction of the railroad to the community.



Rogers Engine #7 with railroad workers and a friendly dog that was often seen riding the rails. Allyn Fuller Collection, Dodd Research Center, UConn.





Detail of O.H. Bailey's Birds-eye view of New London, 1876. The New London Engine House was located on the Fort Neck, to the west of the commercial center of the City of New London. The historic settlement in the Fort Neck section of New London began when early settlers were granted two

acres of salt marsh on Fort Neck to use for fertilizing fields and building homes in 1646. Later, during the 1770s Nathaniel and Thomas Shaw began to purchase the rights to the lands on Fort Neck in order to expand their farm. In some records, Fort Neck is called Shaw's Neck and the body of water located to the northeast of the site is identified as Shaw's Cove.

The defenses for the town and the Thames River were also located $on the \, eastern most lands \, of Fort Neck. \, Fort \, Trumbull \, was formally \,$ established to defend the community during the 1770s when unrest with Englandescalated to war. Because of its strategic coastal location, Connecticut's General Assembly decided that a fort, named FortTrumbull for the governor, should be established to protect the Thames

River. A second fort, named Fort Griswold for the deputy governor, was $established across the river at Groton. \ These for tifications, completed$ in 1777, proved to be ideal settings for the wealthy city's defense. The military continued to be a strong presence on Fort Neck until 1996, when Fort Trumbull's active military operations ceased.

Map courtesy of The Connecticut
Historical Society, Hartford.



# History of The New London Railroad

"I'll be gone five hundred miles when the day is done"

Steve Goodman

During the mid-19th century, New London's fishermen and former whalers saw the potential in establishing transportation lines across the state. Believing that having railroad access would be the salvation for New London, the city fathers encouraged the creation of a charter for the New London, Willimantic & Springfield Railroadin May of 1847. The Bank Street merchants and former whalers supplied much of the initial financial backing for this company, later known as the New London Northern Railroad. This was followed by decades of railroad fever that was mirrored allacrosssouthernNewEngland.Over100 independent rail roads were created in theNortheast between 1850 and 1860.

The New Haven and New London Railroad was chartered in 1848. The following year, Alexander C. Twining provided his Engineer's Report and Preliminary Survey of the New Haven and New London Railroad. Twining recommended that the new railroad terminate in downtown New London because of the nearby "connections with harbor and with the different railroads that terminate there or may

# Alexander C. Twining

A Connecticut man his entire life, Alexander Twining had a strong hand in shaping the 19th century landscape of the state he loved. Born in New Haven in 1801, he was the oldest child of Stephen Twining, a steward and acting Treasurer of Yale University. Young Alexander attended Yale and graduated with a Masters degree in 1820. In preparation for a life in the ministry, Alexander attended the Andover Theological Seminary, but returned to Yale instead to be come a tutor from 1823 to 1825. Desiring to further his education in civil engineering, Alexander moved to West Point where he studied for many years under special consideration, as he was never listed as a cadet.

During his years at West Point, Alexander surveyed the area between New York and New Haven for the New York, New Haven, & Hartford Railroad. His surveyed routewas not initially adopted as the company feltit was too costly. Several years later, the Company altered the route and followed most of Twining's original recommendations. Before finishing his studies in New York, Twining married a West Point girl in 1929. Together they raised seven children.

Twining returned to New Haven where he worked as a civil engineer concentrating on railroad surveys and reports. In 1835 he explored and mapped the country side between Hartford and New Haven. His detailed report recommending the proposed routewas immediately accepted and the route has remained essentially the same to this day. In 1839 he accepted the professorship in mathematics, civil engineering, and astronomy at Middle bury College in Vermont. Although he taught at Middle bury for the next tenyears, he continued to survey and present comprehensive reports on proposed railroad routes including the Canalor North ampton Road in Connecticut and several others in the Midwest. In 1849 Alexander and his family returned to New Haven where he was immediately asked to survey the route for the proposed New Haven and New London line.

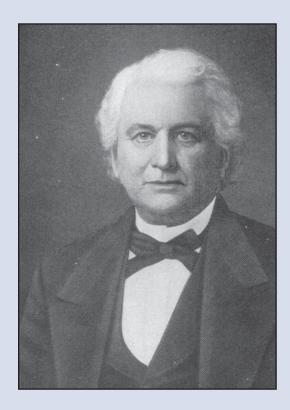
Although Twining continued to concentrate on railroads, he was also an inventor and staunch abolition ist. One of his interests was in the creation of refrigeration. In 1849 he filed for a patent for using a compression process to create cold artificially. A United States patent was granted in 1853 followed by one filed in England. He was able to secure money in Cleveland for his work and was eventually able to produce ice at the rate of 1600 pounds in 24 hours. Unfortunately the process was too expensive and although his patent was extended, he was neverable to raise enough funds to put his ice manufacturing plant into operation.

H is opposition to slavery was well known throughout New London. In fact, he was one of the prominent signers of the Connecticut petition concerning slavery sent to President Buchanan. During the 1850 she was also active in organizing and financing agroup of colonists who traveled from Connecticut to Kansasto oppose

slaverv

Closer to home, Twining mapped out the future water supply for the City of New London in 1852. At the time, cityresidents were still using individual wells and cisterns to obtain water. As the population grew, the need for clean water was becoming vital to the health of the community. Twining produced a report that offered a variety of solutions and potential waters our cest hroughout northeastern Connecticut. His survey was used as an example for civil engineers and scholars for decades.

When A lexander Twining died in New Haven in 1884, his greatengine ering projects and the railroad lines he designed left a lasting imprint on the landscape of Connecticut.



Alexander C. Twining, 1801-1884

be expected to terminate" in that location including the new Williamntic line.

Preparations for the construction of the New Haven and New London rail line, with an estimated cost of \$1,414,350.00, were set in motion soon after Twining's report was submitted. Many of the Bank Street merchants, who had originally supported the new railroad, found themselves being pushed off their land as the Company began purchasing property along the proposed route. Following Twining's surveyed route, construction of the single-track rail line began in 1850. As part of his report, Twining recommended that several engine and

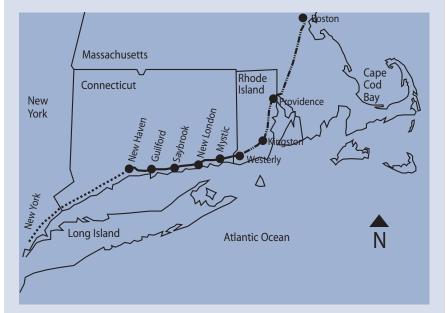
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1852 Ticket Price Information, New Haven Colony Historical Society.





Clinton Railroad Station. Clinton Historical Society.



5

Madison Railroad Station. Madison Historical Society.

Map depicting the route of the New York and New HavenRaiload.The corridorwasmade up of connected raillinesbelonging toseveraldifferent railroadcompanies. The solid line in the center of the route identifies the section known as the Shore Line Railroad. The historicalphotographs show two of the stations located on the Shore Line route.

## Rogers Locomotive

"Through the hills and by the shores
Hear the mighty rush of engines"

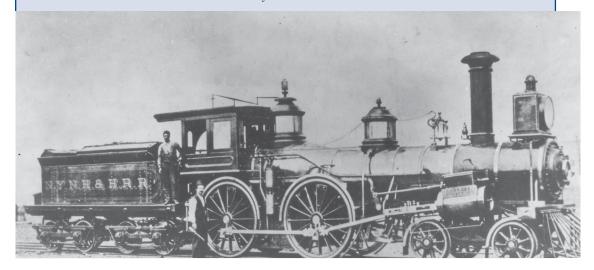


In 1832 Thomas Rogers formed a partnership in a Paterson, New Jersey machine works with New York investors Morris Ketchumand Jasper Grosvenor. That same year, the Rogers, Ketcham & Grosvenor Company (RKG) received an order to produce 100 sets of wheels and axles for Horatio Allen of the South Carolina Railroad. In 1833 the Paterson and Hudson River Railroad Company ordered a Stephenson locomotive from Britain. The engine was disassembled and transported to the United States where Thomas Rogers was called upon to reassemble the locomotive. Rogers spent one month carefully examining and putting the engine, named the "McNeill," backtogether. This project introduced the company to locomotive construction.

In 1837 RKG was hired to produce their first locomotive named the Sandusky. Based on what he learned from the examination of the Stephenson engine, Rogers adopted the 4-4-0 design (4 wheeled leading truck and 4 coupled driving wheels) and improved it by refining the suspension mechanism. The Sandusky remained in service for decades. Over the next thirty

years, the Rogers Company increased production from one engine in 1837 to 103 in 1854. During the 1850s, Rogers became the leading locomotive manufacturer in the United States. In fact, the New Haven and New London Railroad purchased several locomotives from RKG during the 1850s and 1860s. When Thomas Rogers died in 1856, his son Jacob took over the company and renamed it the Rogers Locomotive and Machine Works. By the beginning of 1873 the company employed 1,648 workers and was producing one locomotive every second working day.

Rogers Locomotive "Olivia" built in the early 1850s. Allyn Fuller Collection, Dodd Research Center, UConn.



# Engines of the Shore Line Rail Road

Engine	Builder	Builder No.	Date built	Cylinders	Driver Dia.
Madison (re-named Clinton)	Rogers K & G	#170	5/5/1849	13" X 20"	60"
New London	Rogers K & G	#306	3/11/1852	14" X 20"	66"
Lyme	Rogers K & G	#305	3/11/1852	14" X 20"	66"
New Haven	Swinburne	?	1852	14" X 20"	50"
Saybrook	Rogers K & G	#320	5/24/1852	14" X 20"	72"
Guilford	Rogers K & G	#319	5/24/1852	14" X 20"	72"
Branford	Rogers K & G	#147	10/12/1848	12" X 20"	60"
Westbrook	Rogers	#1173	7/14/1864	14" X 22"	66"
Madison	Rogers	#916	4/30/1860	14" X 22"	66"
#1532	Rogers	#1532	7/10/1868	15" X 22"	66"
		Aborros			

Above:

Engines of the Shore Line Rail Road. This chart shows that the majority of the early locomotives were purchased from the Rogers, Ketcham & Grosvenor Company (later The Rogers Locomotive and Machine Works), Paterson, NJ.

#### Left:

Signalmen were often present on the trackstoadvise conductors of any upcoming hazards or track activities. The lanterns they carried would be moved in different directions to "signal" information on the type of hazard the train was approaching or if the tracks were clear.

### NEW HAVEN AND NEW LONDON RAILRO TIME TABLE NO. 12. On and after Monday, November 13, 1854

N. B. The time of the clock at the New York and New Haven Ticket Office at New . the standard time, and all Conductors and Engineers are required to regulate their time and see that their time compares with each other at Stations on the Road.

N. HAV	EN TO N.	LONDON.	ES	S CES	N. LONDON TO N. H					
lst Pass'ger & Ft. Train.	2d Pass'ger Train.	3d Pass'ger Train.		STATIONS.	lst Pass'ger & Ft. Train.	2d Pass'ger Train.	3d			
7.45 A. M.	11.15 а.м.	6.10 р.м.		Dep. New Haven Ar.	9.15а.м.	1,35 р.м.				
7.52 "	11.22 "	6.17 "	2	FAIR HAVEN, Dep.	9.08 "	1.28 "				
8,08 "	11.87 "	6.34 "	81	Branford	8,52 "	1.13 "				
8.17 "	11.46 "	6.43 "	11	STONY CREEK	8.43 "	1.04 "				
A 8.30 "	11.58 "	6.57 "	151	GUILFORD	A 3.30 "	12.52 "				
8.42 "	12,07 г.м.	7.07 4	197	MADISON	8.18 "	12.43 "				
8.53 "	12.16 "	C7.18 "	231	CLINTON,	8,07 4	12.34 "	1			
9,04 "	B12.25 "	7.27 "	273	Westbrook	7.56 "	B12.25 "				
9.15 "	12.34 "	7.34 "	311	SAYBROOK	7.45 "	12.18 "				
9.20 "	12.39 "	7.39 "	323	Conn. River	7.40	12.13 "				
9.30 "	12.49 "	7.49 "	33	Lуме	7,30 +	12,03 р.м.				
9.54 "	1.11 "	8.12 "	$42\frac{1}{2}$	East Lyme	7.06 "	11,41 "				
10.15 "	1.30 "	8.30 г.м.	491	Ar New London. Dep.	6.45 A.M.	11.25а.м.				

- A First Passenger Train from New Haven passes first Passenger Train from New London at Guilford, B Second Passenger Train from New Haven passes second Pass'gr Train from New London at Westbrot Third Passenger Train from New Haven passes third Passenger Train from New London at Clinton

#### RULES FOR RUNNING THE TRAINS.

The 7.45 A. M. Train from New Haven will be considered a regular train at Guilford until 8.40 A. reach Guilford at 8.40 A. M., it will become irregular, and must keep out of the way of all Passenger train The 11.15 A. M. Train from New Haven will be considered a regular train at Westbrook until 12.35 and reach Westbrook at 12.35 P. M., it will become irregular, and must keep out of the way of all Passen The 6.10 P. M. Train from New Haven will be considered a regular train at Clinton until 7.38 P. M. reach Clinton at 7.38 P. M. it will become irregular, and must keep out of the way of all passenger trains Trains from New Haven will table time from the last Station they leave, to the Station they leave.

Whenever it becomes necessary to wait at passing places after regular time, for the Trains from New F. A. M. Train from New London will be allowed to proceed from Guilford at 8.45 A. M.; the 11.25 A. M. Train from New London will be allowed to proceed from Westlorook at 12.40 P. M.; the 6.00 P. M. Train from New London

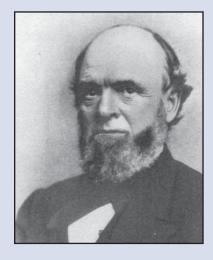
The 1854 Time Table of the New Haven and New London Railroad. Allyn Fuller Collection, Dodd Research Center, UConn.

rail line began in 1850. As part of his report, Twining recommended that several engine and car houses be built along the route at an estimated cost of \$23,000. These facilities were recommended by Twining as necessary for the success of the venture. Late 19th century maps indicate that there were several engine houses built along the railroad corridor. In 1856 it was announced that the final cost of the road was \$1,456, 318.74, indicating that Twining's estimate was incredibly accu-

### Erastus Scranton

Erastus Clark Scranton was born in East Guilford. now Madison, Connecticut in 1807. As a young boy, Scranton attended the local public school in Madison.Although his business career started when he signed on as a simple cabin boy, he soon prospered and became the ownerandmasterofaseavessel. He owned a mercantile near Washington, D.C. and a grocery in Augusta, Georgia beforeturning to the businesses of large-scale commercial banking and shipping. Starting in the early 1840s with a bank in Florida, he made enough money to return to Connecticutin 1844 with a considerable fortune. After that date, Scranton, along with several partners in New York City, invested heavily intrade with South America.He also had interests in several shipping lines.

Bythelate 1840s Scranton became one of the influentialleaders to push for the creation of the New Haven and New London Railroad. After joining the Board of Directors for the new railroad, Scranton served on the Finance Committee during the first few years the rail line was in business. By the mid-1850s Scranton had severed histies with the New York City investments andwaselectedPresidentofoneofNewHaven'sprestigious banks, the Elm City Bank (Second National Bank of NewHaven). From 1846 until 1863 Erastus Scranton served on and of fin both houses of the Connecticut Legislature.Through its many changes, Scranton remained a Trusteeof the New Haven and New London, later the Shore Line Railroad. His interests in railroads spread and in 1865 he was elected President of the New York & New Haven Railroad, which would later lease the Shore Line. In 1865 hewas also elected Mayor of Hew Haven. On December29,1866 Scranton accidentally fell and was killed as he tried to board a moving train in South Norwalk.





## Cornelius Scranton Bushnell

Cornelius Scranton Bushnell was born in Madison, Connecticut in 1828. Hegrew up working on both his father's farm and quarry. When he was just fifteen, Bushnell joined the crew of a coasting vessel. Less than a year later he became the master of a sixty-ton  $schooner. \, During the \, next five \, years \, he \, saved \, his \, earnings \, and \, was \, able \, to \, purchase \, a \, constant \, and \, both \, able \, to \, purchase \, a \, constant \, able \, abl$ houseinNewHaven. Hepartnered with his brother in the retail grocery business and guidedit to be come the largest of its kind in the state. In 1858, Bushnell's interests expanded $to rail roads. \, At that time, the New Haven and New London Rail road was struggling to the struggli$ remain open. At a meeting of the stockholders that same year, a plan to extend the line to Stonington, Connecticut was devised to generate income. Bushnell was chosen as president of the railroad and he immediately set out to raise the funds to pay for the expansion.Once he had raise de nough money, he went to Washington to lobby for his railroad against the properties of the properthe New York and New Haven Railroad, which refused to sell through tickets and check the New York and New Haven Railroad, which refused to sell through tickets and check the New York and New Haven Railroad, which refused to sell through tickets and check the New York and New Haven Railroad, which refused to sell through tickets and check the New York and New Haven Railroad, which refused to sell through tickets and check the New York and New Haven Railroad and New Haven Railrbaggage for the Shore Line. During his time in Washington, Bushnell realized that there was a support of the Shore Line of the Shore Linwasan impending crisis between the northand the south. He was still in the city when Fort Sumterwas fired upon and en listed as a private soldier to guard Washington's public buildings. Although he served less than a month, a grateful Abraham Lincoln, who extended thanks for his valuable services at such a critical time, signed his discharge papers.

Beforethe Civil Warhad even started, Bushnellhad expressed interest in improving the US naval forces. He firmly believed that stronger ships as well as armored vessels were needed to win the warfor the Union. Bushnell returned to Connecticut where he established ashipyard at Fairhaven. He developed plans for a new kind of ship clad with iron. When he met Captain John Ericsson in New York, Ericsson showed him his plans for a similar vessel he called the Monitor. Bushnell realized that Ericsson's design was superior and immediately set about getting permission to build the ship. Using all of his Washington contacts, as well as meeting with Lincoln himself, Bushnell was finally able to persuade the naval board to allow him to build the iron clad on the condition that the government would be reimbursed if the project failed. Bushnell risked all of his property to build the ship that would not only help the Union win the Civil War, but would for ever alter ship construction from wooden to armore dvessels. During and after the War, Bushnell remained a Board member of the New York and New London Railroad.



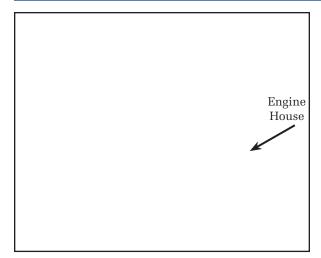
Detail from the Beers Atlas of New London, 1868. The Shore Line Railroad Yardisshown just south of Hamilton Avenue. At the time the map was prepared the Engine House was a sub-track design. (see page 12). Map courtesy of The New London County Historical Society.

New London Railroad officially opened in 1852. Over the next few years, the Company continued to expand the route in order to establish a line that traveled from New York to Boston. In 1857, the New Haven and New London Railroad took over the New London and Stonington Line when it went bankrupt and completed the link between the two great cities of the Northeast. Unfortunately, at that time passengers still had to pass from rail line to rail line as no single entity had control over the entire route.

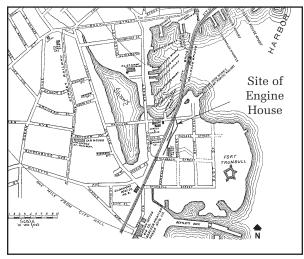
### Shore Line Railroad

In 1864, after some restructuring of the Company, the original New Haven and New London Railroad was reorganized as the Shore Line Railway. With all of the new rail traffic in the city, a freight wharf





Detail of 1884 Sanborn Fire Insurance Atlas of New London. The Engine House has been expanded and identified as "Car Shops." The structure was also altered to a run-through engine house design.



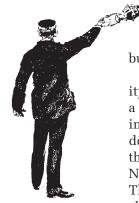
Detail of the Map of New London from Price and Lee's 1902 New London Directory. By this date the Engine House and Turntable have been removed and Freight House constructed just north of Walbach Street.

and depot were constructed at the end of State Street in downtown New London during the 1860s. At that time, the Shore Line was still ferrying trains over the Connecticut and Thames Rivers. During his second trip to America in 1867, Charles Dickens wrote of the trip:

Tworivers have to be crossed, and each time the whole train is banged aboard a big steamer. The steamer rises and falls with the river, which the rail road don't do; and the train is either banged up hill or banged down hill. In coming off the steamer at one end of these crossings, we were banged up such a height that the rope broke, and our carriage rushed back with a run down hill into the boat again. I whisked out in a moment, and two or three others after me, but no body else seemed to care about it.

In 1870, the Shore Line was leased to the much larger New York and New Haven Railroad. Following a merger with the Hartford and New Haven Railroad in 1872, the New York and New Haven Railroad became the New York, New Haven and Hartford Railroad. It was under the direction of the "New Haven," as it was commonly called, that a large roundhouse and repair shop was built near the State Street freight wharf on the Thames River by 1874. The New Haven Railroad was still leasing the line when the original railroad station in downtown New London burned down in 1885. The new Union Station was finished in 1887 and offered all of the existing rail lines a right-of-way to the





building.

Because of the popularity of the Shore Line route, a second track was laid during 1892-93, continuing the double tracking created for the original New York and New Haven line in 1854. The New Haven was finally able to gain control over the entire route between New

York and Boston when it leased the Old Colony Railroad, formerly the Boston and Providence Line, in 1893, thus for the first time providing service by a single company for the entire route.

During the first three decades of the 20th century, the freight and passenger service on the line continued to prosper. During those years, several of the older engine houses and repair facilities were torn down. The New Haven Line was electrified dur-

# Number of Daily Passenger Trains on the Shore Line/New Haven Line

1869	10	
1893	24	
1919	32	
1935	31	
1950	34	
1971	20	
1993	22	

of the older engine houses and repair facilities were torn down. The New Haven Line was electrified during 1914, enabling the line to improve service. The only major economic slow-down occurred during World War I when the government seized control of all major railroads. Once returned to private hands in 1920, the railroad again prospered until the stock market crash of 1929. The New Haven continued to operateuntil 1935, when the Company had to declare bankruptcyandreorganize, cutting outsome lines and services. Competition with the automobile and constant cutbacks continued to threaten the railroad. In 1970, Congress passed the Rail Passenger Service Act, which enabled the creation of Amtrak, a quasi-public agency charged with keeping intercity passengerrail service in the Northeast and Midwest running.

Afterrailroads became a major source of transportation, engine-houses were used to quarter and/or service the locomotives after runs. The design and construction of engine houses began in Britain during the second quarter of the 19th century. The earliest designtypes were either roundhouses or square (sometimescruciform)structures. Roundhouses and smallersquarehousestypicallyhadexteriorturntablesand largersquarehousesrequiredinteriortransfertablesto move the engines sideways through the building.

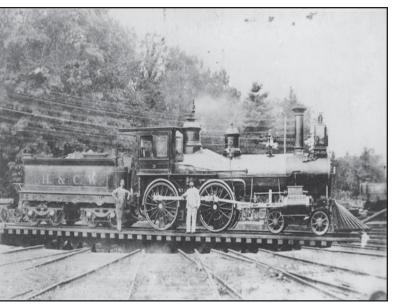
Early engine house technology and design in

Engine Number 41 leaving a run-through engine house. Allyn Fuller Collection, Dodd Research Center, UConn.

North America was directly influenced by the early British designs. Historians generally agree that during the 19th and 20th centuries large circular, or semi-circular, round houses were more commonly built for thelong-term servicing of steam engines along the main lines throughout the United States. Because of this, the round house has become almost synonymous withthe engine or locomotive house.

Locomotive on a multi-track turn table. AllynFullerCollection,DoddResearch Center, UConn.

Throughout the northeastern United States, numerous independent railroad companies were formed during the 19th century. Frequently, several different companies on a rail line that traveled interstate, or for long distances, owned individual sections of the track route. These companies typically paid for the construction of their sections of the track and each built and maintained individual



# Working in a Rail Yard



"I've been workin' on the railroad All the live-long day I've been workin' on the railroad Just to pass the time away"



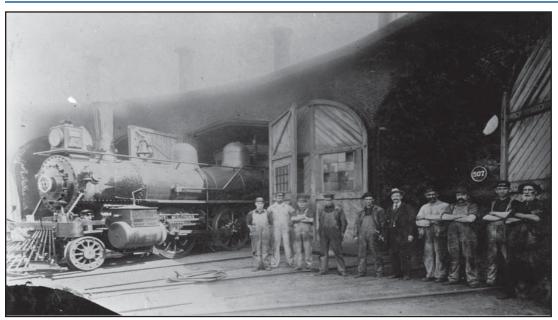
repair facilities.

A review of historic maps throughout the Northeast indicates that contrary to the belief that roundhouses were the most common rail yard repair facility, many small square houses, in many cases identified as "car shops," were actually constructed and used throughout the late 19th century.

Althoughmostenginehouseswerebuiltatterminal ordivision yards, a few were constructed at junctions or inproximity to structures needed during the servicing of thelocomotives (e.g., watertanks, oil-houses, ash-pits).

The location, size and shape of engine houses were often dependent on the topography of the country side and the building materials that were locally available.

There were three basic types of squareshaped engine houses: the run-through design, which was open at both ends; the sub-track type, which was open at one end and had buffers at the other; and the radial track type, containing one or more interior turntables. The square house was more rectangular in shape. Usually, the run-through square engine-house was built to service only a limited number of engines in



Engine Number 77 with railroad workers at a 19th century roundhouse. Allyn Fuller Collection, Dodd Research Center, UConn.

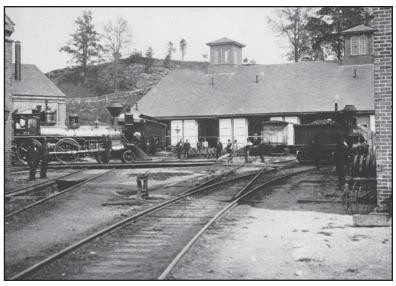
a small yard and to get them repaired quickly. As railroad historian Walter Berg describes:

The approach to these houses is, usually, by a track system leading off a leader, although sometimes, to economize space, the tracks run out of the building to a turntable.

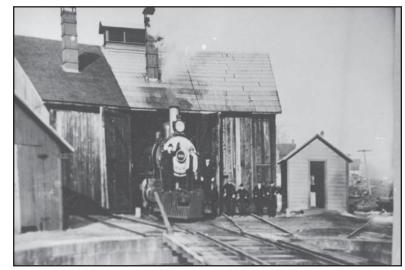
These structures were designed to enable locomotives to move head first into, or through, the building stalls with the engine pilots (smoke stacks) facing the rear wall. In the roof above each stall smoke jacks, or small chimneys, were used to ventilate the area. Long, narrow engine pits, located beneath the stalls and usually three feet deep, allowed machinists, fitters

and cleaners to complete maintenance under the locomotive. The foundations of early square engine houses were usually brick or stone. The interior floors were typically covered with cinders, cement, stone, as phalt, or timber, with the floor level flush with the top of the rails. Large double doors were open at either end and the walls and roof were made of heavy timber. The major disadvantage of the run-through type of engine house was that break downs could cause the tracks to be blocked.

Because there were so many independent railroad companies during the 19th century, each built and maintained individual repair facilities. For small rail lines, the square house was more practical because it was less expensive to



Nineteenth century engine house and rail yard. Allyn Fuller Collection, Dodd Research Center, UConn.



Engine Number 40 being serviced at a small square engine house. Allyn Fuller Collection, Dodd Research Center, UConn.



# Stalls/Inspection

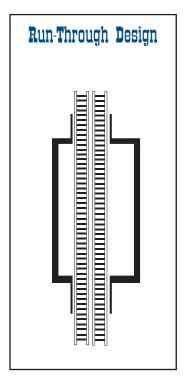


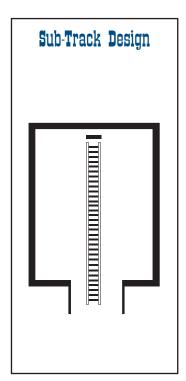
Historic American Engineering Record (HAER) photograph, showing workers in the interior of an active engine house. Allyn Fuller Collection, Dodd Research Center. UConn.

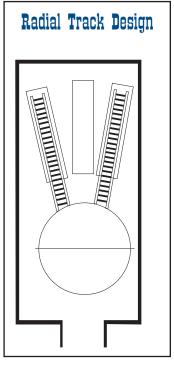
Most 19 th century engine house stalls were between 35-50 feetlong, with the base sloping in the direction that best suited the layout of the drainage system. In many engine houses the inspection pit floors were flat and had small drains at the deeperend. In the more efficient engine houses, the center of the stall floors were typically crowned, or curved, so that work mencould have a dry place to labor when servicing the engine. Brick or stone side walls were several feethigher and supported railroad tracks. The depth of the pits varied considerably, but averaged between two and a halffeet below grade at the shallow end and three feet at the deep end.

The design of engine house stalls, work areas, was probably not a result of labor health considerations, but rather was created to establish a profitable and efficient operation. In simple terms, the quickest way to get your engine repaired and back in operation was to create a clean and well-run facility. Washing down the facility and removing oils or other was teen sured that nothing would prevent the swift repair of a broken down locomotive. Although trade journals recommended a canted, dry floor under neath workers' boots, the economic emphasis on having a clean work area was probably the strongest influence on the construction of inspection pit floors and drainage systems.

build and the foreman of the yard could more easily observe all activity within the structure. Later, in attempts to economize, many of the combined rail lines closed and razed the smaller shops and engine houses in order to consolidate work areas and workers during the late 19th and 20th centuries.

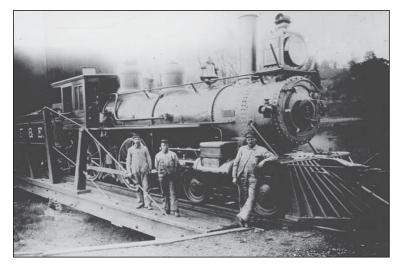


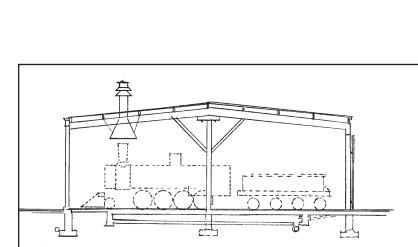




Illustrations of the three types of square engine houses constructed in the United States during the 19th century.

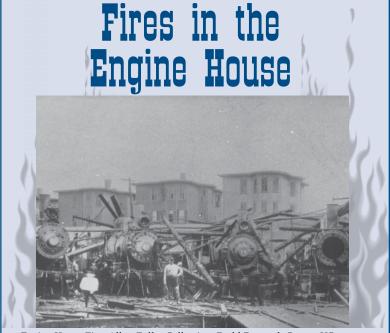
Railroad workers and locomotive on a turntable. Allyn Fuller Collection, Dodd Research Center, UConn.





### Profile of a typical Engine House

Profile of a typical Engine House. The engine enters the building on tracks and stops above the inspection pit. A smoke jack, located above the engine, vents any remaining fumes emitted from the locomotive



Engine House Fire. Allyn Fuller Collection, Dodd Research Center, UConn.

Two advantages of the square engine house design was that the structure, with doors only at the ends, was both easier to heat and escape from in case of the ends $fire. \, Early engine houses were heated with larger ound cast-iron stoves. \, A large$ stove with an associated chimney would often heat the raily ard offices as well.If the engine house structure was substantial, smaller stoves were often placed between, or inside of, every third or fourth stall. These smallers to veshad narrow $stove pipes that fed into the nearest smoke jack. \ The presence of these stoves$  $increased the potential for the engine house to be come a first rap. \ In later engine$ house designs, firewalls were commonly built between segments of the structureas a precautionary measure.





Typical 19th Century Rail Yard. Allyn Fuller Collection, Dodd Research Center, UConn.

Yard Master's Office, New London Rail Yard, 1920s. New Haven Railroad Abandoned Structures Collection, Dodd Research Center, UConn.

# Rail Yards

Tracks and/or spurtracks led through the yard or stopped at engine houses or storage facilities. Buildings typically found in raily ard sincluded the engine house, storage structures, offices, and privies (outhouses). Water tanks, coal bins, and other fuel con-

tainers were also present in the yard. As engine maintenance work became more centralized and the smaller engine houses were razed, rail yards were more often used for storage and freight transfer. Coal clinkers, cinders, and ash were typically spread around rail

yards.Notonlywerethesematerialsnecessaryby-productsofrail travel, they also facilitated drainage in work areas.



# Engine House

Archaeology

"The sons of pullman porters
And the server And the sons of engineers

Ride their father's magic carpets made of steel"

Steve Goodman

WhentheNewLondonDevelopmentCorporation began a large-scale improvement project in the Fort Trumbull area of the City of New London archaeologists were hired to determine if cultural resources were present in the areas to be developed. One of the are as examined was the rail road yard located north ofWalbach Street, on the east side of the main route of the



Photograph of the New London Amtrak Rail Yard, 2001.

#### railroad.

Thefirststageofarchaeologicalresearchinvolved  $athorough \, review \, of local \, and \, regional \, histories \, as$ wellasanyprimarydocumentsrelatingtothehistory of the site. In addition, numerous maps were examined in order to discover details about the site's possible land-use overtime and building history. In order to accomplishthistask, researchers visited various libraries, historical societies and archives.

The initial documentary review discovered that amid-19th century turn table and engine house of the New Haven and New London Railroad were once located on the project site. Because this location still functioned as a rail yard, with minimal 20th century infrastructure, the buried remains of these mid-19th century transportation features might still be present.

Field-testingwasthenconducted in order to determineifanyofthehistoricrailroadfeaturessurvivedin placeburiedbeneaththeground. Ateamofarchaeologists excavated three large trenches with the assistanceof a backhoe. During testing, part of the foundation of the turn table, a brick drainage pipeline or conduit, and a large section of an inspection pit, once located within the square engine house, were exposed. Testing also uncovered the layer of black coal that was the formerworking, or "operational," surface of the 19th century railyard. The foundations of the turn table and inspection pitwere built of large cut granitestones. The inspection pitals ohad three stone stairs leading down to a brick floor, which was slanted to promote drainage toward a central drain near the stairs. The stoneside walls were just over two feet higher than thefloor and would have supported the railroad tracks and



Archaeologists typically use United States Geological Survey mapsto identify the exact location of sites, and to gain information on nearby water sources and the surrounding landscape.

locomotiveasitpassedthroughthebuilding. Workers could then descend into the inspection pit in order to repair or examine the underside of the train.

Becauseextensiveundergroundconstructionwas notplanned, it was determined that the archaeologists should monitor the project-related exposure of these importantrailroad features. In this case, monitoring enabled archaeologists to use a backhoe to remove the thick layers of fill that covered the earlier railroadfoundations. Archaeologists were then able to photograph and measure the exposed features. The main











# Archaeological Monitoring



from the dreams of vesterday"

"And the story, still unravels,

**Jim Croce** 

objective was to identify and preserve any important features in place. During monitoring, archaeologists exposedtwoadditionalinspectionpits, aslate-covered drain, a service area within the engine house containing pineplankflooring, and the mortared foundation of the round turntable.

## An Archaeologist's Tools



Books



Trowel



Shovel



Whisk broom



Screen



Backhoe

Photographs of the New London Amtrak Rail Yard, 2001.

- Excavation with a backhoe exposed a portion of the granite turntable foundation.
- Close-up of the turntable foundation.
- Further excavation uncovered Inspection Pit #1. Note the granite stone steps at the Pit's north end.

Onceexposed, the turn table had an interior radius of 25.3 feet. The top of the turn table was not ched at thetrackentranceandexitareasandlargetimberswere present within the notches. Because the entrance and exitlocations were high-wear areas, the cheaper wood  $timbers \, could be more \, easily \, fitted \, into \, the \, not ches \,$ than stone replacements.

The two inspection pits were similar to the one found during the earlier excavation. Each inspection pit was approximately 39 feet long and had granite block steps at the north end. In addition, ceramic drains ran from beneath the pit floors to a large brickdrain or conduit. In several locations portions of the exterior building walls were also identified. The surviving remains indicated that the outer walls of theengine house were constructed of brick.



### Understanding the Engine House

"I know every engineer on every train All of their children, and all of their names"

Roger Miller

Archaeological study of the New London Engine House and Turntable provided information on early railroad history and technology. Today the loss of these buildings is evidenced in the books, newsletters, and web pages of railroad historians and enthusiasts. The excavation of the features also provided the opportunity to examine the construction of, and changes made to, this 1850s transportation complex.

### Construction Materials

The engine house and turntable were constructed of stone, brick, and wood. The large stones used for the foundations of both the



a











engine house and turntable were cut granite. Because of the proximity of large granite quarries throughout New England, granite was a popular building material. The three inspection pits were constructed of both stone and brick. Brick was used to create the sloped pit floors and drains. All of the drains examined flowed away from the site to the west under the extant tracks. Testing also exposed the engine house floor, which was bedded with cinders and covered with wood in the work areas, a practice typical of low-cost engine house construction in the mid 19th century.

### Changes Made to the Building

In order to remain competitive with rival railroads, and save money, railroad line owners continuously updated or replaced older buildings. At the New London Rail Yard changes included modifying the building from a subtrack to a run-through design and the eventual construction of additional inspection pits. The larger building, renamed a "Car Shop" during the 1880s, would have allowed more engines to be serviced, thus saving the company money.

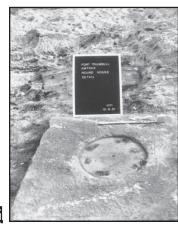
### Rail Yard

Duringtheexcavations, alayer of blacksoil mixed with coal and ash was uncovered throughout the formerrailyard. The prolonged use of coalas a source of energyencouraged the regular deposition of large piles of coal within rail yards. In addition, the presence of coalandashonthe"operational"surfaceencouraged drainage and absorbed spilled oils and lubricants.









# Old Saybrook Archaeology Project

As part of a larger field study of Saybrook Point, Connecticut, Harold Juli and students from Connecticut College conducted excavations at the Saybrook Roundhousein 1980. Prior to testing, research and informant interviews had determined that around the control of the cohouse built by the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level and the Connecticut Valley Railroad was constructed at Saybrook Pointsome-level at Saybrook Pointsometime during the last quarter of the 19th century and dismantled in 1922. Archaeological and the continuous cinvestigations of the roundhouse and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall, one-size and turn table revealed the remains of a six-stall representation of the remains ofquarterwedge-shapedroundhouse. Two of the six stalls were excavated and researchers discovered that each stall was built on a base of two granite footings. The remains of brick and the stall was built on a base of two granite footings. The remains of brick and the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings. The remains of brick are the stall was built on a base of two granite footings are the stall was built on a base of two granite footings. The remains of the stall was built on the stall was buisidewalls, that formerly supported the railroad track, were also uncovered. In addition, pier supports were found in the location of the former stall entrances, spaced approximately appromatelythree meters apart. The two stalls also had ceramic pipes or conduits for venting excess water and bins for the disposal of coalash. Archaeologists also located the cementturn table foundation. To day, the granite and brick foundations of the roundhouse havebeen incorporated into the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of the town's Saybrook Point Park near the public interpretation of tthe Connecticut River.

- During the monitoring excavation, Inspection Pits #2 and #3 were discovered.
- The turntable foundation was also completely uncovered.
- A circle of granite blocks was found at the center of the turntable.
- A stone block to support the turning mechanism was uncovered directly in the center of the turntable.

### Removal of Buildings

"Well if you say so.

I will railroad no more"

During the late 19th century a few key owners, who combined numerous small lines into larger networks, monopolized the railroad industry. The notion of centralizing repair facilities at urban terminal yards began to make economic sense. Centralizing repair shops











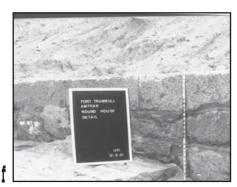
would ensure that no engine house worker would be idle, as would happen at some of the more remote repair houses. Parts and supplies would also only be needed at one facility and not delivered along the line where they may, or may not, be used. In addition, as newer and more advanced trains were put into service the remote engine houses could not repair the more sophisticated locomotives. When the centralized hubs were built, the New London Engine House repair facility became obsolete.

Archaeological investigation together with surviving historical documents, tells a story of this small rail yard over time. Not long after the creation of the New Haven and New London Railroad, a manually rotated turn table and as quare engine house were constructed on the lot. Excavation revealed that the New London rail yard features were typical in design using large cut granite stone for the foundations and brick for the pit flooring and drainage lines. The engine house was originally a subtrack design with an exterior turn table. The building was lateren larged and altered to become a run-through type of engine house that was open at bothends. The interior inspection pits were probably altered when the house became a car shop.

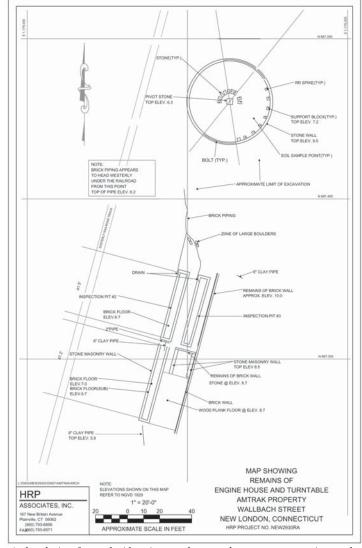
As the railroads consolidated and more engine repair was more often conducted at central facilities, smaller engine houses were no longer cost-efficient and were razed. In the case of the New London engine house, the above ground structures, including the tracks, were removed and the area was filled. This probably occurred following the construction of a large freight house located to the south.

Because limited documentary materials





- **c.** Close-up of the brick floor of an inspection pit.
- f. The granite used in the construction of the engine house was probably from a local quarry. The sidewalls that were still in place were approximately two feet deep.



Archaeologists often work with engineers and cartographers to survey excavation trenches and archaeological features on the modern landscape. The excavation map, produced by HRP Associates. Inc., shows the layout of the turn table and in spection pits identified during the archaeological investigation of the New London Engine House and Turn table Archaeological Preserve.



# The Engine House Story



"The conductor sings his song again,

the layer of ash, coal, and fill that blankets the site protects the buried engine house and turntable foundations, which survive in a very good state of preservation.

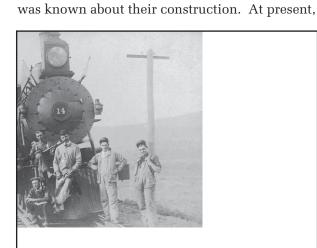
Todaywhen wewalkalong the tracks or into empty rail yards, we hear echoes of the thousands of trains and workers who once belonged to one of the most complex transportation networks in the world. With the whistless till blowing in our imagination, and with sites like the New London Engine House and Turntable Archaeological Preserve, we can share the memories of life on the 19th century rails.

The passsengers

will please refrain

This trains got the disappearing ra

blues" Steve Goodman



have survived (maps, photographs, personal

accounts), the archaeological investigation has provided an overview of the layout and activities

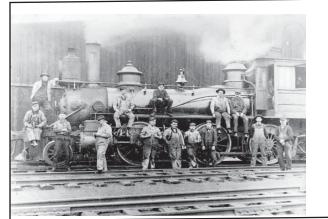
of the engine house. Excavations relocated and

exposed the engine house and turntable founda-

tions and were able to supplement what little

Engine #14 and workers, September 1906. Allyn Fuller Collection, Dodd Research Center, UConn.





19th century engine with rail yard workers. Allyn Fuller Collection, Dodd Research Center, UConn.

# Glossary

Archaeology: The study of past human societies and their lifeways based on cultural remains that have been preserved through time.

Artifact: An object manufactured and/or used by humans.

Cultural Resources: Structures, properties, and objects from the past that constitute both our national and local heritage, including historic buildings, and precontact and historical archaeological remains.

Engine House: The building where repairs, cleaning, and/ormaintenance of locomotives takes place.

Feature: Any part of an archaeological site that is a result of human activity that cannot be removed from a site intact. Inspection Pit: Below-ground work areas in an engine house where individuals can work be neath a locomotive to service or clean the

engine.

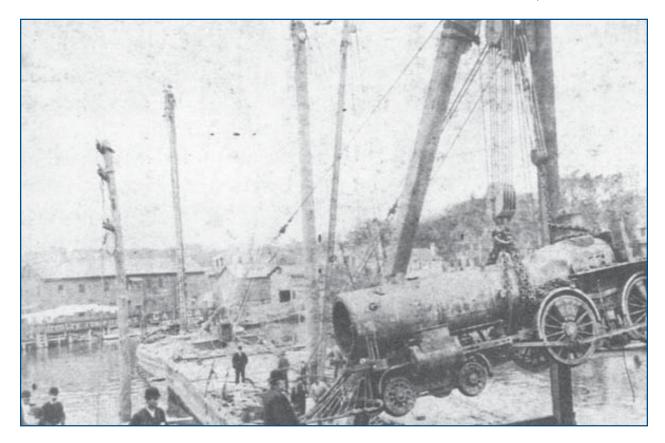
Monitoring: Aphase of archaeological field work where technicians record the exposure of existing surfaces by heavy equipment.

Roundhouse: A semi-circular or round building where repairs, cleaning, and/or maintenance of locomotives takes place.

Smoke Jack: A small vent or chimney that is situated above the stalls or heating stoves within an engine house or roundhouse.

 ${\bf Turn table:} The circular machinery used to turn a locomotive around at ground level.$ 

Below: Railroad Accident at Shaw's Cove, New London.



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### Connecticut Railroad Sites Open to the Public:

ConnecticutTrolleyMuseum. Route140,EastWindsor. Danbury Railway Museum, 120 White Street, Danbury.

 ${\bf Essex\,Steam\,Train\,and\,Riverboat\,Tours.\,\,One\,Railroad\,Avenue,}\\ {\bf Essex.}$ 

Railroad Museum of New England, Inc. Thomaston, http://www.rmne.org

Saybrook Point Park, College Street, Old Saybrook.

The Shore Line Trolley Museum. Operated by the Branford Electric Railway Association. 17 River Street, East Haven.



# State Archaeological Preserves

### Connecticut's State Archaeological Preserves (December 2002)

1. Fifth Camp of Rochambeau's InfantryArchaeologicalSite,Bolton

Newgate Prison and Copper Mine,

2. East Granby

Small Pox Hospital Rock Site,

3. Farmington

**Axle Shop-Spring Factory** 

4. Archaeological Site, Hamden

Kent Iron Furnace, Kent

- Fort Wooster Park, New Haven
- Putnam Memorial State Park,
- 7. Redding and Bethel

Fourth Camp of Rochambeau's

8. Army, Windham

**New London Engine House and** 

9. Turntable Archaeological Preserve

Location of State Archaeological Preserves

Massachusets

Harth

New York

Rhode Island

Long Island Sound

State Archaeological Preserves were established by the Connecticut Legislature as a mechanism to protect significant archaeological sites. Archaeological sites that are listed on the National Register of Historic Places and/or the State Register of Historic Places qualify for designation as a Preserve, whether the land is private or public property. The National Register is the official Federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, engineering, and culture worthy of preservation. These contribute to an understanding of the historical and cultural foundations of the Nation. Similarly, the State Register of Historic Places is a census of historicand archaeological resourses that are integral to the development of Connecticut's distinctive character.

The Connecticut Historical Commission is empowered to designate archaeological sites as preserves (C.G.S. Section 10-384). The Commission, in coordination with the Office of State Archaeology and, when appropriate, the Native American Heritage Advisory Council, works with property owners to nominate significant sites as Archaeological Preserves. The Commission is also charged with maintaining themaster listing of all archaeological preserves.

Preserves recognize both the educational and cul-

tural value, as well as the fragile nature, of archaeological resources. Many of Connecticut's Preserves are on private land and fall under the protection of property owner rights. In addition, Connecticut law provides that, regardless of whether a Preserve is on private or public land, no personshall "excavate, damage or otherwise alter or deface the archaeological integrity or sacred importance" of a Preserve. Connecticut State Statute Section 10-390 provides significant penalties for vandalism and the unlawful collecting of a Preserves.

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