

THE ROYAL GUNPOWDER FACTORY

WALTHAM ABBEY

Area H



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER
H1

OLD SERIES

RCHME NUMBER

N.G.R.
TL 37638 00938

NAME/FUNCTION
Store

START DATE

END DATE

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

DOCUMENTARY REFERENCES

1972 ERDE List ; Store
1992 RARDE List ; Store

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Demolished

DESCRIPTION

- 4) DIMENSIONS i) L 6.6m ii) W 2.92m
- 5) This modern building was demolished in 1992, a concrete floor slab remains.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER
H2

OLD SERIES

RCHME NUMBER

N.G.R.
TL 37625 00923

NAME/FUNCTION
Store

START DATE

END DATE

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

DOCUMENTARY REFERENCES

1972 ERDE List ; Store
1992 RARDE List ; Store

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

RELATIONSHIPS WITH OTHER MONUMENTS


ASSOCIATED WITH:

CONDITION Demolished

DESCRIPTION

- 4) DIMENSIONS i) L 6.1m ii) W 3m
- 5) Modern building demolished in 1992, concrete floor slab remains.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H3	OLD SERIES	RCHME NUMBER	N.G.R. TL
NAME/FUNCTION Solvent store		START DATE	END DATE
			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
		1) RARDE list 1992 - Solvent store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/S/30 17 Mar 1993 Floor slab from East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION			
4) DIMENSIONS i) L 5.4m ii) W 3m			
5) Modern building demolished in 1992, concrete floor slab remains.			

52

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H5	OLD SERIES	RCHME NUMBER	N.G.R. TL 37628 00936
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NAME/FUNCTION Store	START DATE	END DATE
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CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/S/35 17 Mar 1993 From East 36
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H6

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Pre-cast concrete slabs
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated abestos
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L ii) W iii) HT iv)DIA
- 5) Modern garage.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H6	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 00933
NAME/FUNCTION Store		START DATE	END DATE
NO PHOTOGRAPHY AILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/S/35 17 Mar 1993 From East 36	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H5			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Pre-cast concrete slabs 2) ROOF MATERIALS AND STRUCTURE Corrugated abestos 3) POWER SOURCE Electricity 4) DIMENSIONS i) L ii) W iii) HT iv) DIA 5) Modern garage.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H7	OLD SERIES 186	RCHME NUMBER	N.G.R. TL 37560 01100
NAME/FUNCTION Cordite Reel drying stove Laundry Magazine	START DATE 1904 1916?		END DATE 1916?
CARTOGRAPHIC DEPICTION c1910 WASC 900/65 ; Reel Drying Stove No.1 c1910 WASC 900/79 ; Reel Drying Stove No.1 1917 WASC 900/70 ; Reel Drying Stove No.1 1917 WASC 900/72 ; 186 1919 WASC 900/74 ; 186 c1920 WASC 900/80 ; 186 1923 WASC 900/84 ; 186 1932 WASC 900/87 ; 186 > 1940 WASC 900/91A ; 186 1954 A - B.34 ; H7 c1960 WASC 900/94 ; H7 c1963 WASC 900/97 ; H7 1972 WASC 900/102 ; H7 1972 WASC 900/104 ; H7 1976 WASC 900/113 ; H7		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Drying Stove, Truck Porch, Traverse. c1925 RGPF Ledger WASC 1680 ; Reel Drying Stove, Truck Porch, Traverse H7 c1945 RGPF Ledger WASC 1508 ; Reel Drying Stove, Truck Porch, Traverse H7 Plan: H07 B01 - B08 ; Plans and Elevations ? to 1961 1972 ERDE List ; Magazine and Store 1916 1992 RARDE List ; Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/12 02 Feb 1993 From South East 206/T/6 17 Mar 1993 From South West 206/T/7 17 Mar 1993 Cordite Reel drying stove in traverse 206/T/32 17 Mar 1993 Expence Magazine from South East 2) BB92/26052 H7 Cordite Reel Magazine view from South East BB92/26248 H7 Entrance view from West showing Toe Board between Dirty and Clean Area BB92/26343 H7 RGPF Drawing H7 B.06 Proposed Reel Stove	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H8, H10, H12			
CONDITION Good			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards and single aisle Fink truss
- 3) POWER SOURCE
Electricity formerly also steam heat
- 4) DIMENSIONS i) L 26.65m ii) W 9.57m iii) HT eave 3.4m
- 5)

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

**MOD Building Nos H7 and H8
Reel Drying Stoves
The Royal Gunpowder Factory
Waltham Abbey
Essex**

**NBR No: 91448
NGR: TL 37560 001100**

These buildings are a matching pair of Reel Drying Stoves which were built in 1904 on the Great Hoppit site of the Royal Gunpowder Factory. They each contained a single large room with racks for drying cordite. Cordite reels were brought here for drying before reeling in a separate building (H10).

Of one storey, they each have a rectangular plan of eight bays and are constructed of yellow brick laid in English bond, with "truck porches" at the north and south ends.

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Situated on the Great Hoppit part of the site of the Royal Gunpowder Factory at Waltham Abbey, these buildings were built in 1904 as a pair of Reel Drying Stoves. Building No. H7 and Building no. H8 to its south were almost identical and were known as Reel Drying Stove 1 and Reel Drying Stove 2 respectively.¹ Cordite would have been pressed in other building such as the former gunpowder mill buildings, then dried in one of these Stoves before it was taken to a Reeling House for winding.

Surrounded by earth traverses on the Great Hoppit site of the Royal Gunpowder Factory, both buildings have overall dimensions of 26.65 x 9.57 metres, with a height to the eaves of 3.4 metres. They have a rectangular plan of eight bays, with "truck porches" at the north and south ends.²

The porches, to which tramways originally ran, each contain the remains of a "barrier board" approximately 200 mm high. As a safety precaution to prevent grit and dust

¹ Although the buildings are aligned north-north-west to south-south-east, for clarity in this report they are described as if they were aligned north to south.

² Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

entering the building, the 2workers had to stand on a special "shoe board" and don leather over-boots before stepping over the barrier board into the building.³ From the porch, each building was entered on the north and south sides through a wide doorway which had a cambered head of brick.

Each building was a single large room containing racks for drying the cordite reels.⁴ When the buildings were first built in 1904, acetone was used in the cordite mixing process. The drying process was to remove the acetone from the cordite. Steam pipes, associated with the drying, entered the building at the north and south ends of the building, as witnessed by blocked round openings at the east and west sides of the north and south elevations.

The buildings are constructed of yellow brick laid in English bond and have plinths of chamfered brick which respect the porches. The porches were of corrugated iron.⁵ The roof trusses were of iron. The main roof of each building is hipped and has a zinc covering, and the porch roofs are almost flat.⁶

There were windows at approximately every second bay on the east and west elevations of both buildings. The windows have red-brick arched heads and brick closers and were

³ Although describing safety precautions on the site some four years before these Reel Drying Stoves were built, the function of shoe boards and barrier boards is outlined in an article "The Deadliest Spot near London" by Alfred Arkas in The Penny Pictorial Magazine, No. 35, Vol. 3, 3 February 1900, cat. WASC 412.

⁴ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁵ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁶ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

part of the original phase of construction.⁷ On the outside of each window was an electric light.⁸

Alterations made to Building No. H8 include the replacement of the corrugated iron fabric of the porches with timber fabric, the insertion of a small window with a flat head and closers on the east elevation, the subsequent blocking of all the windows, and the insertion of a partition wall in stretcher-bond brick. A new timber porch on the west elevation.⁹ The doors from the porch are in the position of an earlier window. Interrupting the plinth on both the east and west elevations is a small addition with a lead-lined floor and a lean-to roof.¹⁰

In Building No. H7 double doors with cambered heads at the north and south sides have been replaced by square-headed double doors of steel. A steel door was also added on the east elevation. All the windows were blocked. New roofing was added to both buildings in c1940, following bomb damage.¹¹

At least latterly the buildings have been used as stores. The interiors were not inspected at the time of this survey.

Surveyed March 1993
Report by R L Burgess

⁷ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

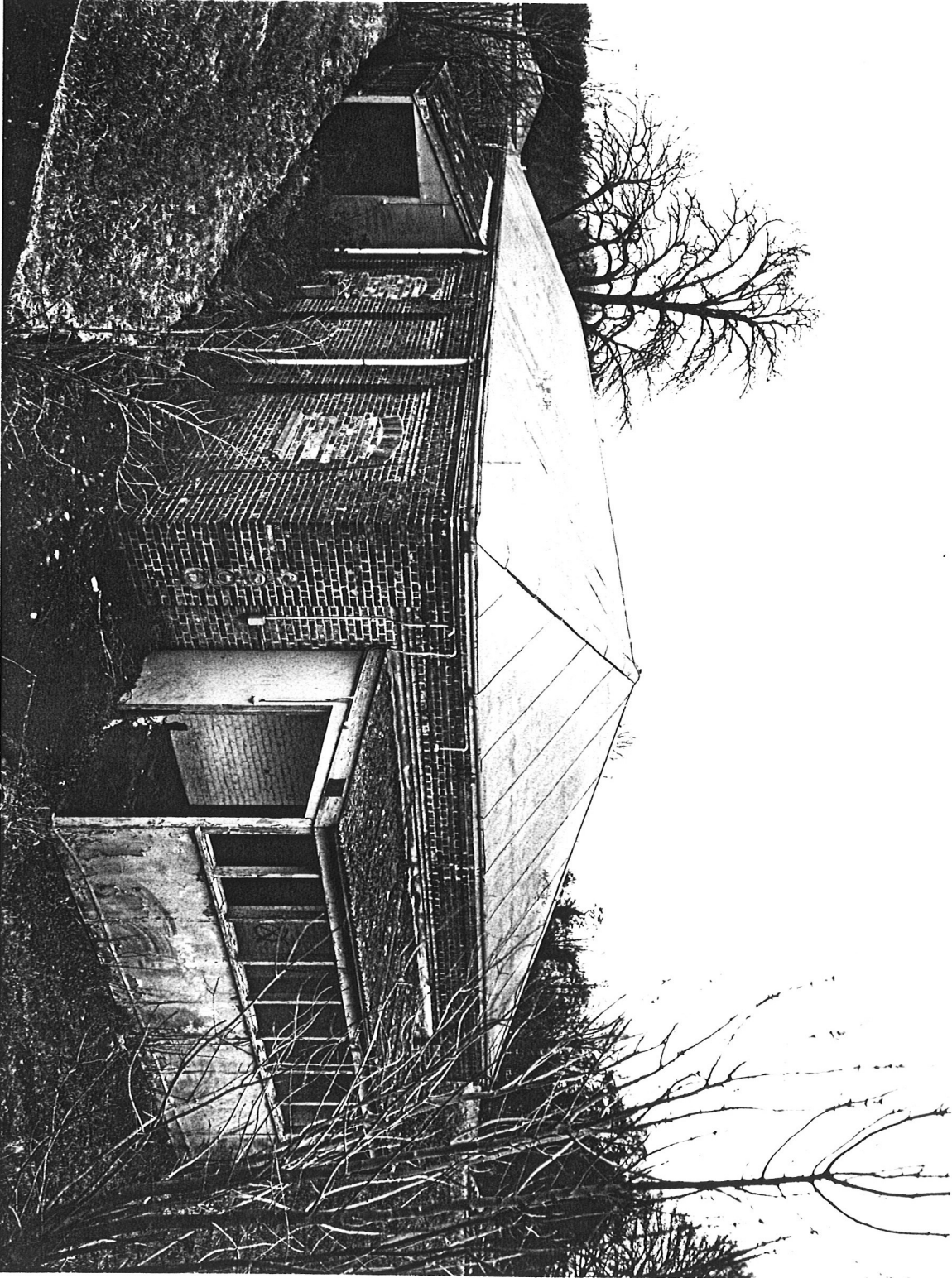
⁸ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

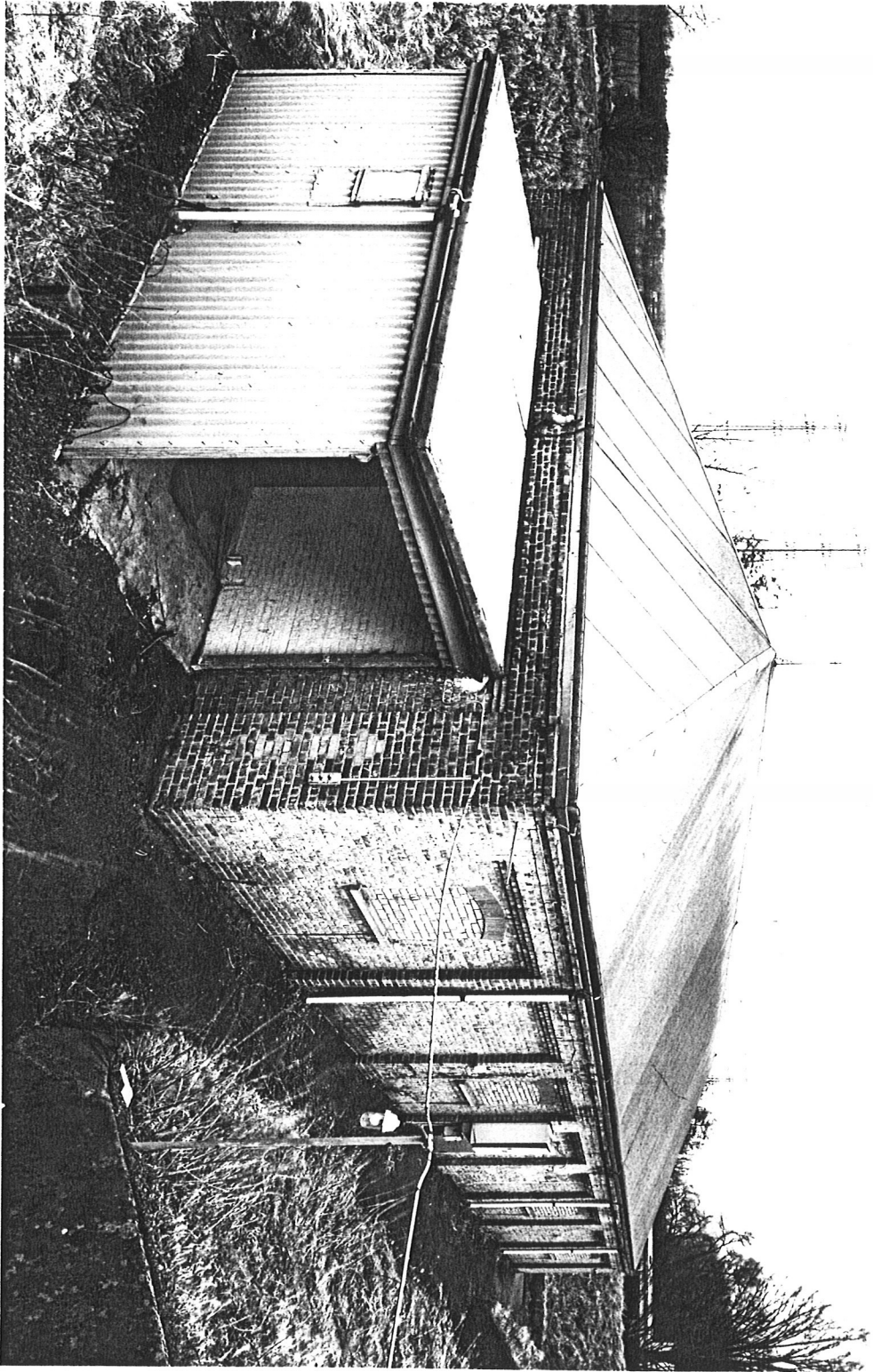
⁹ Drawing of Reel Stove No. 2: "Additional Loading Porch" on west side, with barrier board, shoe box and gunmetal rails, dated 10/1/1941, cat. H8.B.15 (MOD Central Disposals Unit, Chessington).

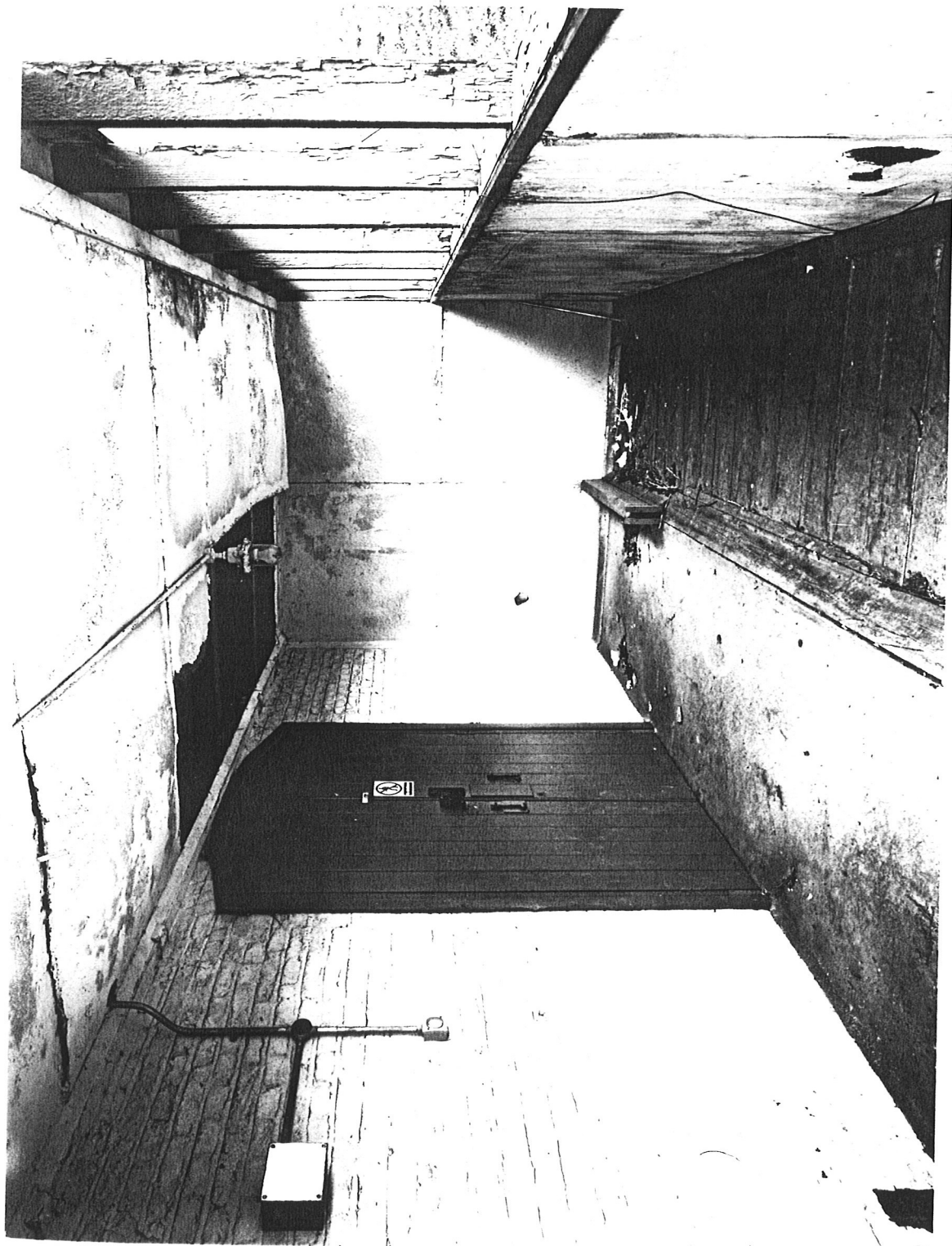
¹⁰ The interior of the addition on the west side was not inspected.

¹¹ Bomb damage no. 2 reel store 15/10/1940, cat. WASC 1655/66-68.

Drawing showing details of new roofing, dated 7.12.1940, cat. H7.B.04 (MOD Central Disposals Unit, Chessington).

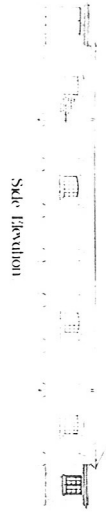






PROPOSED REEL STOVE, GREAT HOPPT, R.C.D.P.F. WALTER, ABBEY
SCALE: 8 FEET TO 1 INCH

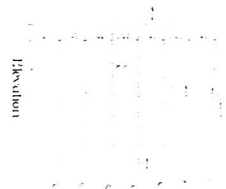
R.C.M.F.



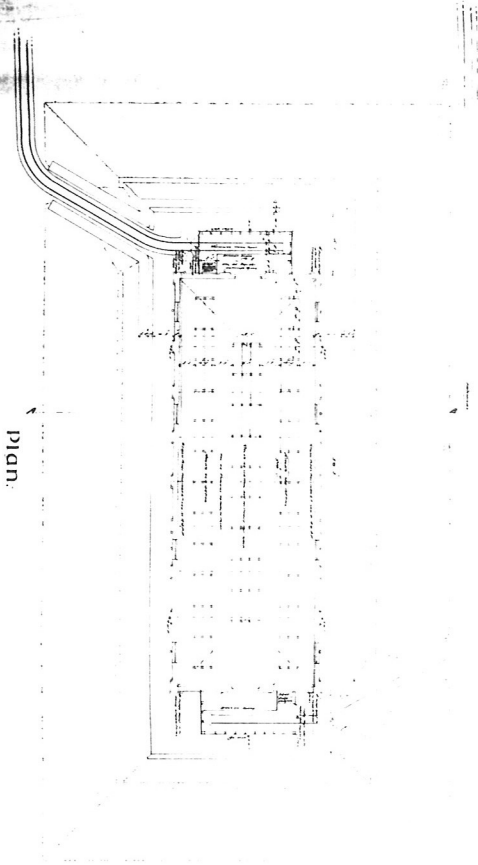
Scale Elevation



End Elevation



Elevation



Plan

Plan
Detail of RACKS
Scale 2" = 1'

Section AB

MS 1/100

MS 1/100

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

**MOD Building Nos H7 and H8
Reel Drying Stoves
The Royal Gunpowder Factory
Waltham Abbey
Essex**

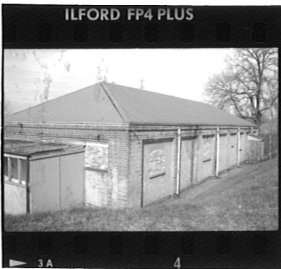



**NBR No: 91448
NGR: TL 37560 001100**

These buildings are a matching pair of Reel Drying Stoves built in 1904 on the Great Hoppit site of the Royal Gunpowder Factory. They each contained a single large room with racks for drying cordite.

Of one storey, they each have a rectangular plan of eight bays and are constructed of yellow brick laid in English bond, with "truck porches" at the north and south ends.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H8	OLD SERIES 199	RCHME NUMBER	N.G.R. TL 37580 01018
NAME/FUNCTION Cordite Reel drying stove Magazine		START DATE 1904	END DATE
   			
CARTOGRAPHIC DEPICTION c1910 WASC 900/65 ; Reel Drying Stove No.2 c1910 WASC 900/79 ; Reel Drying Stove No.2 1917 WASC 900/70 ; Reel Drying Stove No.2 1917 WASC 900/72 ; 199 1919 WASC 900/74 ; 199 c1920 WASC 900/80 ; Reel Drying Stove No.2 1923 WASC 900/84 ; 199 1932 WASC 900/87 ; 199 > 1940 WASC 900/91A ; 199 1954 A - B.34 ; H8 c1960 WASC 900/94 ; H8 c1963 WASC 900/97 ; H8 1972 WASC 900/102 ; H8 1972 WASC 900/104 ; H8 1976 WASC 900/113 ; H8		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Drying Stove, Truck Porch, Traverse c1925 RGPF Ledger WASC 1680 ; Reel Drying Stove, Truck Porch, Traverse H8 c1945 RGPF Ledger WASC 1508 ; Reel Drying Stove, Truck Porch, Traverse H8 1972 ERDE List ; Magazine 1916 1992 RARDE List ; Magazine	
PHOTOGRAPHY HISTORIC WASC 1655/66-68 Bomb damage No.2 reel store 15.10.1940		PHOTOGRAPHY RCHME 1) 206/H/11 02 Feb 1993 From South East 206/T/33 17 Mar 1993 Eastern Traverse from South East 206/T/34 17 Mar 1993 From South 206/T/4 17 Mar 1993 Cordite Reel Stove from South West 206/T/5 17 Mar 1993 Showing Steam Pipes entering South East corner 2) BB92/26053 H8 Cordite Reel Magazine view from South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H7, H10, H12			
CONDITION Good			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER

CONTINUATION SHEET



DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards and Fink truss
- 3) POWER SOURCE
Electricity and formerly steam heat
- 4) DIMENSIONS i) L 26.75m ii) W 9.7m iii) HT eave 3.65m
- 5)

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H10	OLD SERIES 218	RCHME NUMBER	N.G.R. TL 37630 00952
NAME/FUNCTION Cordite Reeling house Laboratory area	START DATE 1904 1950	END DATE 1950 1992	



<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Reeling House c1910 WASC 900/79 ; Reeling House 1917 WASC 900/70 1917 WASC 900/72 ; 218 1919 WASC 900/74 ; 218 c1920 WASC 900/80 ; 218 1923 WASC 900/84 ; 218 1932 WASC 900/87 ; 218 > 1940 WASC 900/91A ; 218 1954 A - B.34 ; H10 c1960 WASC 900/94 ; H10 c1963 WASC 900/97 ; H10 1972 WASC 900/102 ; H10 1972 WASC 900/104 ; H10 1976 WASC 900/113 ; H10</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reeling House/Engine House c1925 RGPF Ledger WASC 1680 ; Reeling House/Engine House H10 c1945 RGPF Ledger WASC 1508 ; Reeling House/Engine House H10</p> <p>Plans: H10 B01 - B18 ; Plans and Elevations 1951 to 1984</p> <p>1972 ERDE List ; Lab Area 1992 RARDE List ; Lab Area</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/l/35 01 Feb 1993 From South West 206/K/4 01 Feb 1993 From South West 206/S/35 17 Mar 1993 From South East</p> <p>2) BB92/26045 H10 Cordite Reeling House Laboratory view from South East BB92/26354 H10 Reeling House Plan & Elevations (Chessington)</p>
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: primary H7, H8, H12 : secondary H21,</p>

<p>CONDITION Good</p>

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over double gable with glass roof lights
- 3) POWER SOURCE
Electricity and steam heat
- 4) DIMENSIONS i) L 30.85m ii) W 16.38m iii) HT estimate 5m
- 5) The building has a double gable with a central dividing spine wall. It is split into four bays by three partition walls. The wooden panel between each of the partitions is modern and relates to last use of the building as a laboratory.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H10
Reeling House
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91472
NGR: TL 37630 00952

Built in 1904 as a Reeling House, this single storey building has a double-pile rectangular plan and a double-gable roof. The main part of the building is of four bays by two bays, around which a covered way creates a further narrow bay on all sides. Reeling of cordite strands took place in three of the four main bays. The covered western end was a tram stop. In the covered eastern end was an engine house and off its east side was a landing stage beside the canal.

The main walls are of yellow brick laid in English bond. Less substantial, the north and south sides of the building were of timber construction. The roof is of iron with bolted timber purlins. The engine house is weatherboarded.

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Situated on the Great Hoppit part of the site of the Royal Gunpowder Factory at Waltham Abbey, the Reeling House was built in 1904.¹ The cordite would have been pressed in other buildings such as the former gunpowder incorporating mills, then dried in the Reel Drying Stoves (H7 or H8), before it was brought to this Reeling House for winding strands of cordite on reels by machinery.²

Rectangular in plan, the building is of 30.85 x 16.38 metres and has a height of 16.38 metres. The main part of the building is of four bays by two bays, around which a covered way creates a further narrow bay on all sides. Of the main bays, the eastern one is a single room, whereas the other three main bays were divided at the centre to form

¹ Ledger c1908, cat. WASC 1509, (PRO, Hayes Repository).

² Although describing the process carried out on a building on the south site of the Gunpowder Factory, an article written in 1900 explains the process of reeling the cordite: The cordite issues from the machine in the shape of a continuous yellowish-brown thread of varying thicknesses. It is wound on brass reels by machinery. The various sizes are cut by machinery into lengths, each representing the regulation charge for the guns for which they are to be used. (The Penny Pictorial Magazine, No. 35, Vol. 3, Week Ending 3 February 1900, cat. WASC 412).

six rooms which carried reeling machinery.³ The covered north and south sides were an open corridor. The covered west end had tramways entering from the north and south sides which terminated at a 'shoe board' in the centre.⁴ Here workers would have had to don special leather over-boots before stepping over a barrier board into a corridor and around to either the north and south sides where there are two doors to each room.⁵ At the eastern end of the building, another tramway approached from the north side to an engine house, which provided power for the building. East of this was a covered landing stage beside the canal, where the cordite reels would have been transferred to a barge and transported to other parts of the site.⁶

The five partition walls, which are aligned north to south, and the central dividing wall, aligned east to west, are constructed of yellow brick laid in English bond. The interior brick walls were rendered in cement. The north and south walls are of timber and glass. The relatively insubstantial side walls and roof could be easily replaced in the event of an explosion.⁷ The corridors on the north and south sides were originally open. At their outer sides are a row of cast iron columns, upon which the principals of the roof trusses rest.

The roof is constructed of iron with bolted timber purlins and has a zinc covering.⁸ It

³ An undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit, shows these six rooms with reeling machinery secured to the floor with Lewis bolts. (PRO, Hayes Repository).

⁴ Drawing of Plan and Sections of Reeling House, Great Hoppit, RGPF Waltham Abbey, cat. H10.B.02 (MOD Central Disposals Unit, Chessington).

⁵ Although describing the process carried out on a building on the south site of the Gunpowder Factory, an article written in 1900 outlines how workers had to don these immense leather over-boots whilst standing on the shoe board, before they were permitted to cross the wooden barrier into the building. (The Penny Pictorial Magazine, No. 35, Vol. 3, Week Ending 3 February 1900, cat. WASC 412).

⁶ The reels may have been transported to magazines on the south site of the Gunpowder Factory and then off site for packing.

⁷ "A Handbook of the Manufacture and Proof of Gunpowder, as carried on at the Royal Gunpowder Factory, Waltham Abbey," by Captain F M Smith, Royal Artillery, Assistant Superintendent. London, 1870, p43.

⁸ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

has a double gable form, comprising four pairs of trusses. The inner principals rest on the central brick wall or, in the case of the easternmost main bay, on an RSJ. The outer principals extend lower to rest on the columns on the north and south sides, thereby creating a covering for the corridor. At the west side the iron roof extends to form a hipped roof over the tramway. The engine house at the east end is timber and has a lean-to roof.

The tie beams of the trusses carried a pair of steam pipes which ran the entire length of the building.⁹ The tie beams of the trusses in the six reeling rooms also carried shafting for the reeling machinery. The machinery was secured to the floor with Lewis bolts.¹⁰ The floor may have been lead-covered¹¹ and that of the engine house was concrete.¹² The building was lit both by side windows and skylights and by electric lighting.¹³

By 1917 the building appears to have ceased functioning as a Reeling House and was used as a Women's Shifting Room and Landing Site.¹⁴ In c1951 it was converted into laboratories.¹⁵ The covered way beside the engine house appears to have been enclosed, using yellow brick in stretcher bond, at this date.¹⁶ The open corridors on the north and

⁹ Drawing of Plan and Sections of Reeling House, Great Hoppit, RGPF Waltham Abbey, cat. H10.B.02 (MOD Central Disposals Unit, Chessington).

¹⁰ An undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit, (PRO, Hayes Repository).

¹¹ The ledger of c1908 (cat. WASC 1509) states that the floor of the reeling house was lead-covered but an undated and uncatalogued drawing also at Hayes PRO shows a cement concrete floor (PRO, Hayes Repository).

¹² Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

¹³ Undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit (PRO, Hayes Repository).

¹⁴ Site plan of Royal Gunpowder Factory at Waltham Abbey, 1:2500, as named 13 September 1917, revised March 1919 and March 1923, cat. WASC 900/84.

¹⁵ Drawing dated 1/1/1951 showing benches for alterations to laboratories, cat. H10.B.01 (MOD Central Disposals Unit, Chessington).

¹⁶ Plans dated 11/6/1951 for enclosure for rectifier at east end of the building, cat. H.10.B.06. (MOD Central Disposals Unit, Chessington).

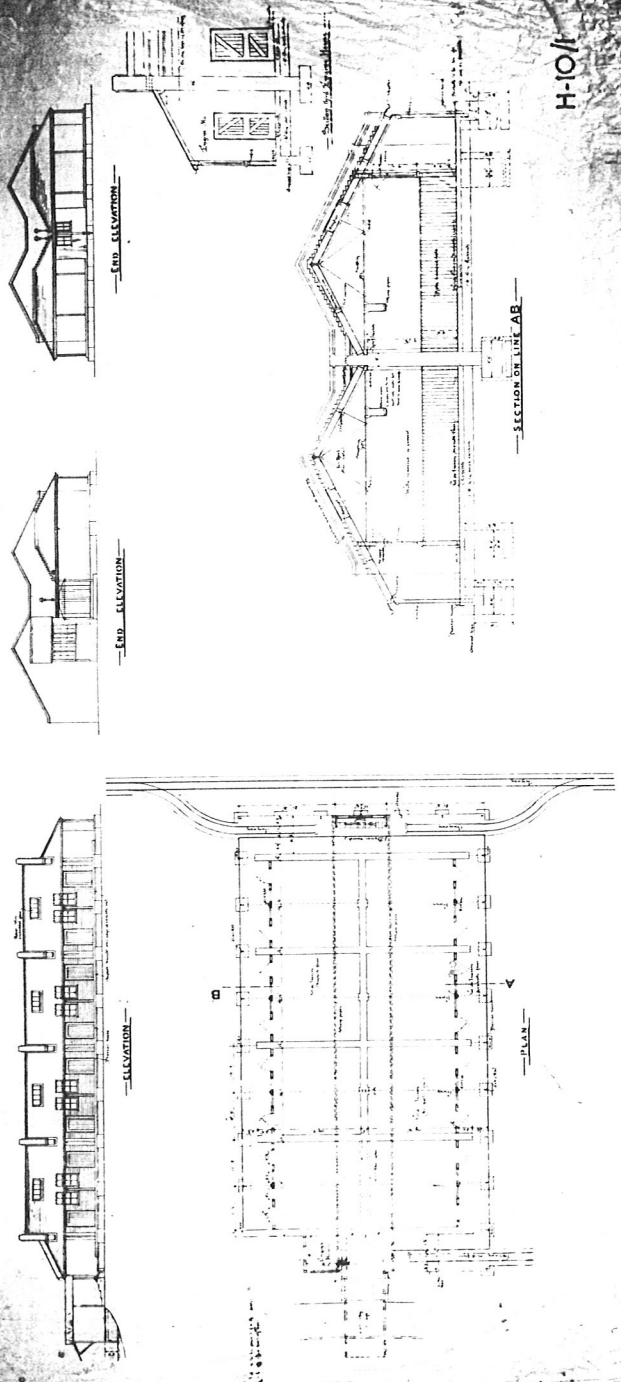
south sides were enclosed in c1969.¹⁷

Surveyed March 1993
Report by R L Burgess

¹⁷

Drawing dated 16/5/1969 showing enclosure of verandahs on the building, cat. H10.B.09A
(MOD Central Disposals Unit, Chessington).

R.C.P.F. WALTHAM ABBEY
REELING HOUSE
CREAT HOPPT



H-10/1



ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H10
Reeling House
The Royal Gunpowder Factory
Waltham Abbey
Essex


NBR No: 91472
NGR: TL 37630 00952

Built in 1904 as a Reeling House, this single storey building has a double-pile rectangular plan and a double-gable roof. The main part of the building is of four bays by two bays, around which a covered way creates a further narrow bay on all sides. Reeling of cordite strands took place in three of the four main bays. The covered western end was a tram stop. In the covered eastern end was an engine house and off its east side was a landing stage beside the canal.

The main walls are of yellow brick laid in English bond. Less substantial, the north and south sides of the building were of timber construction. The roof is of iron with bolted timber purlins. The engine house is weatherboarded.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H11	OLD SERIES	RCHME NUMBER	N.G.R. TL 37640 00932
NAME/FUNCTION Solvent and chemical store		START DATE 1940?	END DATE 1992
			
CARTOGRAPHIC DEPICTION > 1940 WASC 900/91A 1954 A - B.34 ; H11 c1960 WASC 900/94 ; H11 c1963 WASC 900/97 ; H11 1972 WASC 900/102 ; H11 1972 WASC 900/104 ; H11 1976 WASC 900/113 ; H11		DOCUMENTARY REFERENCES 1972 ERDE List ; Solvent and Chemical Store 1992 RARDE List ; Solvent and Chemical Store 1992 FBRC List ; H11 ?	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/K/8 01 Feb 1993 Waste 206/K/9 01 Feb 1993 From East 206/S/35 17 Mar 1993 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Concrete over corrugated iron sheeting 2) ROOF MATERIALS AND STRUCTURE Concrete 3) POWER SOURCE - 4) DIMENSIONS i) L 9.1m ii) W 4.1m iii) HT 2.4m 5) The structure is semi-circular in shape formed from cast concrete 6" in thickness over corrugated iron. The floor is also concrete into which is set a H girder along the centre line of the building.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H12	OLD SERIES 231	RCHME NUMBER	N.G.R. TL 37630 00890
NAME/FUNCTION Cordite Reel Magazine Proof Stand/Firing Point		START DATE 1904 1947?	END DATE 1947? 198?



CARTOGRAPHIC DEPICTION

c1910 WASC 900/65 ; 231
 c1910 WASC 900/79 ; 231
 1917 WASC 900/70 ; 231
 1917 WASC 900/72 ; 231
 1919 WASC 900/74 ; 231
 c1920 WASC 900/80 ; 231
 1923 WASC 900/84 ; 231
 1932 WASC 900/87 ; 231
 > 1940 WASC 900/91A ; 231
 1954 A - B.34 ; H12
 c1960 WASC 900/94 ; H12
 c1963 WASC 900/97 ; H12
 1972 WASC 900/102 ; H12
 1972 WASC 900/104 ; H12
 1976 WASC 900/113 ; H12

DOCUMENTARY REFERENCES

1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Magazine
 c1925 RGPF Ledger WASC 1680 ; Reel Magazine (H12)
 c1945 RGPF Ledger WASC 1508 ; Reel Magazine (H12)

 1946-50 H12 B01 - B13 Plans and Elevations

 1972 ERDE List ; Reel Magazine/Firing Point
 1992 RARDE List ; Reel Magazine/Firing Point

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER

CONTINUATION SHEET



<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/l/25 01 Feb 1993 Detail along Eastern side 206/l/26 01 Feb 1993 East Firing Bay 206/l/27 01 Feb 1993 West Firing Bay 206/l/28 01 Feb 1993 from South West 206/l/29 01 Feb 1993 Safety Barrier 206/l/36 01 Feb 1993 From South East 206/S/18 17 Mar 1993 Firing Point from South 206/S/21 17 Mar 1993 Firing Point West side 206/S/22 17 Mar 1993 Firing Point West chamber 206/S/23 17 Mar 1993 Firing Point East side 206/S/24 17 Mar 1993 Firing Point East side 206/S/25 17 Mar 1993 Firing Point Roof detail from South East 206/S/26 17 Mar 1993 Barrier to North Entrance from South 206/S/27 17 Mar 1993 Interior of Firing Point from North 206/S/28 17 Mar 1993 Showing Internal Northern wall 206/T/35 17 Mar 1993 Firing Point from South</p> <p>2) BB92/26046 H12 Cordite Reel Magazine/Firing Point from South East BB92/26047 H12 Cordite Reel Magazine East Chamber from South East BB92/26048 H12 Cordite Reel Magazine West Chamber from South West BB92/26049 H12 Cordite Reel Magazine West Chamber from South West BB92/26050 H12 Cordite Reel Magazine East passage from South West BB92/26051 H12 Cordite Reel Magazine West passage from North West BB92/26189 H12 Firing Bay, central Control and Observation room BB92/26357 H12 Drawing H12.B.01 Proof stand plan 12.April 1947 (Chessington)</p>
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: primary H7, H8, H10 : secondary H14, H65</p>
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<p>CONDITION Fair</p>

<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Original structure brick in English bond, later additions concrete and breeze block</p> <p>2) ROOF MATERIALS AND STRUCTURE Central control room flat concrete slab, remainder corrugated iron over RSJs</p> <p>3) POWER SOURCE Electricity and steam heat</p> <p>4) DIMENSIONS i) L 17.05m ii) W 13.7m iii) HT 2.85m</p> <p>5)</p> <p>Historic artefacts - lights from firing bays, some of the controll room equipment and 'tub' with associated pipe work along eastern passage. <i>BWF:US</i></p> <p>See attached RCHME Threatened Buildings Section report.</p>
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ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H12

NBR No: 91464

Reel Magazine

NGR: TL 37630 00890

The Royal Gunpowder Factory

Waltham Abbey

Essex

Built in 1904 as a Reel Magazine, this single storey building has a U-shaped plan and is surrounded by a tall earth traverse. It is constructed of red and yellow brick laid in English bond.

The building was converted into a Firing Point by c1946 and the fabric was reinforced. It then comprised two firing rooms, two control rooms and a central command room, and contained monopropellant proof stand(s). Bunkers were added at the east and west sides.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY


NUMBER H13	OLD SERIES HE13/232a	RCHME NUMBER	N.G.R. TL 37600 00862
NAME/FUNCTION Narrow guage Locomotive shed Metal store		START DATE 1916 1950?	END DATE 1950? 1992
<p>CARTOGRAPHIC DEPICTION</p> <p>1917 WASC 900/68 ; Engine House 1917 WASC 900/70 ; Locomotive House 1917 WASC 900/72 ; 232a 1919 WASC 900/74 ; 232a c1920 WASC 900/80 ; 232a 1923 WASC 900/84 ; 232a 1932 WASC 900/87 ; 232a > 1940 WASC 900/91A ; HE13 1954 A - B.34 ; H13 c1960 WASC 900/94 ; H13 c1963 WASC 900/97 ; H13 1972 WASC 900/102 ; H13 1972 WASC 900/104 ; H13 1976 WASC 900/113 ; H13</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plan; H13 B01 - 30/12/1961 ; Details of Engine House</p> <p>1972 ERDE List ; Engine Shed/Metal Store 1992 RARDE List ; Engine Shed/Metal Store</p> <p>1992 FBRC List ; Metal Store</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/1/32 01 Feb 1993 From South East 206/S/19 17 Mar 1993 Narrow guage 18" Locomotive shed from South 206/T/36 17 Mar 1993 Locomotive shed from South 2) BB92/26042 H13 Narrow Guage Locomotive Shed & Metal store from South East BB92/26043 H13 Narrow Guage Locomotive Shed & Metal store interior from South East</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
<p>CONDITION Good</p>			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over timber boards ???
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.25m ii) W 4.75m iii) HT 2.5m
- 5) Single storey narrow guage locomotive shed with gabled ends north and south an dthree double windows along either side. The building is entered from the south through hinged doors under a concrete lintel. Attached to the exterior wall to the left of the entrance is a metal contraband box. Inside two 18" guage rails survive insitu.

Historic salvage: Small enamel sign on north wall.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H14	OLD SERIES	RCHME NUMBER	N.G.R. TL 37660 00871
NAME/FUNCTION Store shed		START DATE 1960?	END DATE 1992
			
CARTOGRAPHIC DEPICTION c1963 WASC 900/97 ; H14 1972 WASC 900/102 ; H14 1972 WASC 900/104 ; H14 1976 WASC 900/113 ; H14		DOCUMENTARY REFERENCES 1972 ERDE List ; Store Shed 1992 RARDE List ; Store Shed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/30 01 Feb 1993 From South 206/K/10 01 Feb 1993 From South West 206/S/14 16 Mar 1993 From South West 206/S/15 16 Mar 1993 Waste 206/S/16 16 Mar 1993 Waste 206/S/17 17 Mar 1993 Waste	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H12			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze block 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 4.7m ii) W 2.3m iii) HT 2.5m 5) A small breeze block building with double wooden doors on its south west side and a single wooden door to the north east.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H15	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 01006
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NAME/FUNCTION Air raid shelter Store glass technology	START DATE 1940?	END DATE 1992
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<p>CARTOGRAPHIC DEPICTION</p> <p>> 1940 WASC 900/91A 1954 A - B.34 ; H15 c1960 WASC 900/94 ; H15 c1963 WASC 900/97 ; H15 1972 WASC 900/102 ; H15 1972 WASC 900/104 ; H15 1976 WASC 900/113 ; H15</p>	<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Concrete Air Raid Shelter 1992 RARDE List ; Concrete Air Raid Shelter</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/K/11 01 Feb 1993 From South 206/l/31 01 Feb 1993 From South 206/S/12 16 Mar 1993 Air Raid Shelter from South West</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:


CONDITION Good

<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Concrete</p> <p>2) ROOF MATERIALS AND STRUCTURE Flat 9" concrete slab</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 9.23m ii) W 5.2m iii) HT 2.44m</p> <p>5) Concrete air raid shelter with two staggered entrances on the south side. Traces of wavy camouflage paint remain on the exterior.</p>

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H16	OLD SERIES 246a	RCHME NUMBER	N.G.R. TL 37620 01006
NAME/FUNCTION Press House No.10 Cordite Press House Electronics glass blowers heat transfer		START DATE 1916 1950?	END DATE 1950?
			
<p>CARTOGRAPHIC DEPICTION</p> <p>1916 WASC 900/66a ; Cordite Press House 1917 WASC 900/68 ; Cordite Press House 1917 WASC 900/70 ; 246a 1917 WASC 900/72 ; 246a 1919 WASC 900/74 ; 246a c1920 WASC 900/80 ; 246a 1923 WASC 900/84 ; 246a 1932 WASC 900/87 ; 246a > 1940 WASC 900/91A 1954 A - B.34 ; H16 c1960 WASC 900/94 ; H16 c1963 WASC 900/97 ; H16 1972 WASC 900/102 ; H16 1972 WASC 900/104 ; H16 1976 WASC 900/113 ; H16</p>		<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Press House No.10 c1945 RGPF Ledger WASC 1508 ; Press House No.10</p> <p>Plans; H16 B01 - B43 ; Plan and Elevations 1916 to 1975</p> <p>1972 ERDE List ; Cordite Press House 1992 RARDE List ; Cordite Press House</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/S/11 16 Mar 1993 Site of used for Waste Sorting 206/H/7 02 Feb 1993 From South waste dump over</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
<p>CONDITION Demolished</p>			
<p>DESCRIPTION</p> <p>The building has been demolished, the concrete floor slab at the time of survey was being used for the storage of contaminated waste and was therefore unavailable for inspection.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H17	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 01006
NAME/FUNCTION Sewer pump house		START DATE 1960?	END DATE 1992
			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 c1963 WASC 900/97 ; H17 1972 WASC 900/102 ; H17 1972 WASC 900/104 ; H17 1976 WASC 900/113 ; H17		DOCUMENTARY REFERENCES 1972 ERDE List ; Sewer Pump House 1992 RARDE List ; Sewer Pump House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/10 02 Feb 1993 From 206/T/3 17 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H31, L126, L170			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Roofing felt over timbers boards supported on a RSJ 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 4.32m ii) W 3.4m iii) HT 2.85m 5) The rectangular brick pump house is set on a small earthen mound. The building is entered through a single blue door on the west side and is lit by a window on the north side. Inside the building the two pumps remain.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H19	OLD SERIES 261a	RCHME NUMBER	N.G.R. TL 37650 00750
NAME/FUNCTION Womens Shifting & Dining Room Shifting and Dining House		START DATE 1914-18?	END DATE 1970?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; 261a 1932 WASC 900/87 ; 261a >1940 WASC 900/91A ; H19 1954 A - B.34 ; H19 c1960 WASC 900/94 ; H19 c1963 WASC 900/97 ; H19</p>		<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Womens Shifting & Dining Room c1945 RGPF Ledger WASC 1508 ; Womens Shifting & Dining Room 1972 ERDE List ; Shifting and Dining Room 1992 RARDE List ; Shifting and Dining Room</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION			
5) No surface remains are visible.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H21	OLD SERIES	RCHME NUMBER	N.G.R. TL 37680 00755
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NAME/FUNCTION Magazine	START DATE 1957?	END DATE
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CARTOGRAPHIC DEPICTION

1954 A - B.34
 c1960 WASC 900/94 ; H21
 c1963 WASC 900/97 ; H21
 1972 WASC 900/102 ; H21
 1972 WASC 900/104 ; H21
 1976 WASC 900/113 ; H21

DOCUMENTARY REFERENCES

Plans;
 H21 B01 -B02 Plans and Elevations 1982
 1972 ERDE List ; Magazine
 1992 RARDE List ; Magazine

PHOTOGRAPHY HISTORIC

PHOTOGRAPHY
 RCHME
 1) 206/H/9 02 Feb 1993 From South East
 206/T/2 17 Mar 1993 From South East

RELATIONSHIPS WITH OTHER MONUMENTS


ASSOCIATED WITH: H10

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated translucent plastic
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 1.9m ii) W 1.9m iii) HT 2.7m
- 5) The building is square with a single red door on the eastern side shielded by a brick wall 4.3m in length and 2.3m high. The building is protected by a lightning conductor. At the building the path to H10 may be closed by a red and white plastic chain.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H23	OLD SERIES 272A	RCHME NUMBER	N.G.R. TL 37676 00718
NAME/FUNCTION Work takers office Storage shed		START DATE 1918	END DATE
			
CARTOGRAPHIC DEPICTION 1917 WASC 900/70 ; Work Takers Office 1917 WASC 900/72 ; 272a 1919 WASC 900/74 ; 272a c1920 WASC 900/80 ; 272a 1923 WASC 900/84 ; 272a 1932 WASC 900/87 ; 272a >1940 WASC 900/91A ; H23 1954 A - B.34 c1960 WASC 900/94 ; H23 c1963 WASC 900/97 ; H23 1972 WASC 900/102 ; H23 1972 WASC 900/104 ; H23 1976 WASC 900/113 ; H23		DOCUMENTARY REFERENCES c1925 RGPF Ledger WASC 1680 ; Work Takers Office c1945 RGPF Ledger WASC 1508 ; Work Takers Office 1972 ERDE List ; Storage Shed 1992 RARDE List ; Storage Shed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/5 02 Feb 1993 From South East 206/S/1 16 Mar 1993 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Good			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.7m ii) W 4.1m iii) HT gable 3.9m
- 5) A single storey brick gabled building, the building was entered from the eastern side through a single door flanked on either side by small windows. The building is lit by a row of windows on the north and south sides and a window on the west side. There is a further door into the rear of the building on the south side.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H24	OLD SERIES 273A	RCHME NUMBER	N.G.R. TL 37630 00712
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NAME/FUNCTION Sewage pump house	START DATE 1916	END DATE 1992
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CARTOGRAPHIC DEPICTION

1917 WASC 900/70 ; Pump
 1917 WASC 900/72 ; 273a
 1919 WASC 900/74 ; 273a
 c1920 WASC 900/80 ; 273a
 1923 WASC 900/84 ; 273a
 1932 WASC 900/87 ; 273a
 > 1940 WASC 900/91A ; 273a
 1954 A - B.34 ; H24
 c1960 WASC 900/94 ; H24
 c1963 WASC 900/97 ; H24
 1972 WASC 900/102 ; H24
 1972 WASC 900/104 ; H24
 1976 WASC 900/113 ; H24

DOCUMENTARY REFERENCES

Plan;
 H24 B01 - 1916 ; Drawing Great Hoppit - Details of Sewage Tank Pump

 1972 ERDE List ; Sewage Pump House
 1992 RARDE List ; Sewage Pump House

PHOTOGRAPHY HISTORIC

PHOTOGRAPHY RCHME

1) 206/I/37 01 Feb 1993 From South East
 206/S/3 16 Mar 1993 From North East

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Flat concrete slab
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 2.58m ii) W 2.57m iii) HT 2.45m
- 5) The pump house is a small brick building with a single door on the north side.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H25	OLD SERIES 275b	RCHME NUMBER	N.G.R. TL 37660 00665
NAME/FUNCTION Womens Hospital Flats		START DATE 1916 1947	END DATE 1947



<p>CARTOGRAPHIC DEPICTION</p> <p>1916 WASC 900/66a ; Hospital and Extension 1916 WASC 900/67a ; Hospital and Extension 1917 WASC 900/68 ; Womens Hospital 1917 WASC 900/70 ; Womens Hospital (Remains of) 1917 WASC 900/72 ; 275b 1919 WASC 900/74 ; 275b c1920 WASC 900/80 ; 275b 1923 WASC 900/84 ; 275b 1932 WASC 900/87 ; 275b > 1940 WASC 900/91A ; H25 1954 A - B.34 ; H25 c1960 WASC 900/94 ; H25 c1963 WASC 900/97 ; H25 1972 WASC 900/102 ; H25 1972 WASC 900/104 ; H25 1976 WASC 900/113 ; H25</p>	<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Womens Hospital c1945 RGPF Ledger WASC 1508 ; Womens Hospital</p> <p>Plans; H25 B01 - B16 ; Plan and Elevations 1916 to 1947</p> <p>1972 ERDE List ; Old Surgery/Womens Hospital 1992 RARDE List ; Old Surgery/Womens Hospital</p> <p>1993 RCHME NO.91450</p>
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<p>PHOTOGRAPHY HISTORIC WASC 1350 Sandhurst Hospital</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/1 02 Feb 1993 Womens Hospital from South East 206/S/5 16 Mar 1993 Womens Hospital from South East</p> <p>2) BB92/26039 H25 Womens Hospital view from North West BB92/26040 H25 Womens Hospital view from North East BB92/26041 H25 Womens Hospital view from South East BB92/26228 H25 Interior of Womens Hospital Ground floor North West room, view from West. BB92/26229 H25 Interior of Womens Hospital view of stairs from first floor landing from South.</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H25a, H26

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H25a, H26

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Weather board over timber frame
- 2) ROOF MATERIALS AND STRUCTURE
Abestos? tiles
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 12m ii) W 10.3m iii) HT estimate 6m
- 5) See attached RCHME Threatened Buildings Section report

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H25
Women's Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91450
NGR: TL 37660 00665

Built in 1916-17 as the Women's Hospital on site at the Royal Gunpowder Factory, building number H25 is a wood-framed building with a weatherboard exterior. It originally had a Y-shaped plan and comprised a two-storeyed rectangular main range with a pair of single-storey wards at the rear.

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The Women's Hospital is situated approximately 25 metres to the west of the other hospital on site at the Gunpowder Factory, the Sandhurst Hospital (H26).

Built in c1916-17, it originally had a Y-shaped plan which comprised a main two-storeyed range and two single-storey wings projecting on the south-west and north-west sides.¹ Only the central two-storeyed range survives. It is 12 x 10.3 metres in plan, and approximately six metres to the gable.

Entered through a doorway on the east front, the ground floor of the main range contains an entrance hall (approximately 1.5 metres wide), with two main rooms on each side. The heated south-east front room was the nurses' sitting room. West of this is an unheated room which functioned as a "dark room", and toward the south-west end of the hall there are toilets, a bathroom, linen stores and cupboards. On the north side of the entrance hall is a north-east front room which was a kitchen and had a range on its north wall. Entered by both the hall and the kitchen, an unheated room on the west side of the kitchen was the scullery. It contains a larder, sink and hot water system and there is a on its north wall is a back door. West of the scullery is a staircase to the first floor. The north-west room, which is of one storey and has a flat roof with skylights, was the

¹ Plans and Elevations of Women's Hospital, dated 31/7/1916, cat. H25.B.02 (MOD Central Disposals Unit, Chessington).

operating room.

The six rooms on the first floor were three nurses bedrooms, matron's bedroom, servants bedroom and bathroom.

The single-storeyed western end of the building has been demolished. At the end of the main entrance hall there was a corridor leading to a ward in each of the two wings. On the west side of the corridor was a nurses duty room which had inspection windows looking out to the wards on the north and south sides. Each ward contained four beds and had, on the east side, a verandah, lobby and wc.

A wood-framed building with a weatherboard exterior, the Women's Hospital has a concrete plinth around the east, south and north sides. The roof is of standard rafter construction, with no trusses, and has plain timber bargeboards and tile coverings on the exterior.

The entrance door is set back beyond an arched frame which is flush with the house front. The windows and entrance arch have flat hoods with moulded corbels. The windows for the ward wings were double-hung sashes.

The staircase on the north side of the entrance hall is a dog-leg stair with winders. It has plain balusters and newels posts and a rounded handrail against the wall, following the rise of the stairs. The stair is lit by a pair of six-panelled windows. Most of the fireplaces in the building appear to have had bead and reel decoration.

The building ceased to be used as a hospital around the middle of this century. Plans dated 1947 show a proposed conversion of the building, including the wards, into four flats.² The removal of the western wings did not take place until some time after 1972.³

² Plan showing proposed conversion of the hospital into four flats, dated 20/1/1947 (amended 25/1/1947, cat. H25.B.16 (MOD Central Disposals Unit, Chessington).

³ Map of "ERDE Waltham Abbey", North site; scale 1:2500, April 1972.

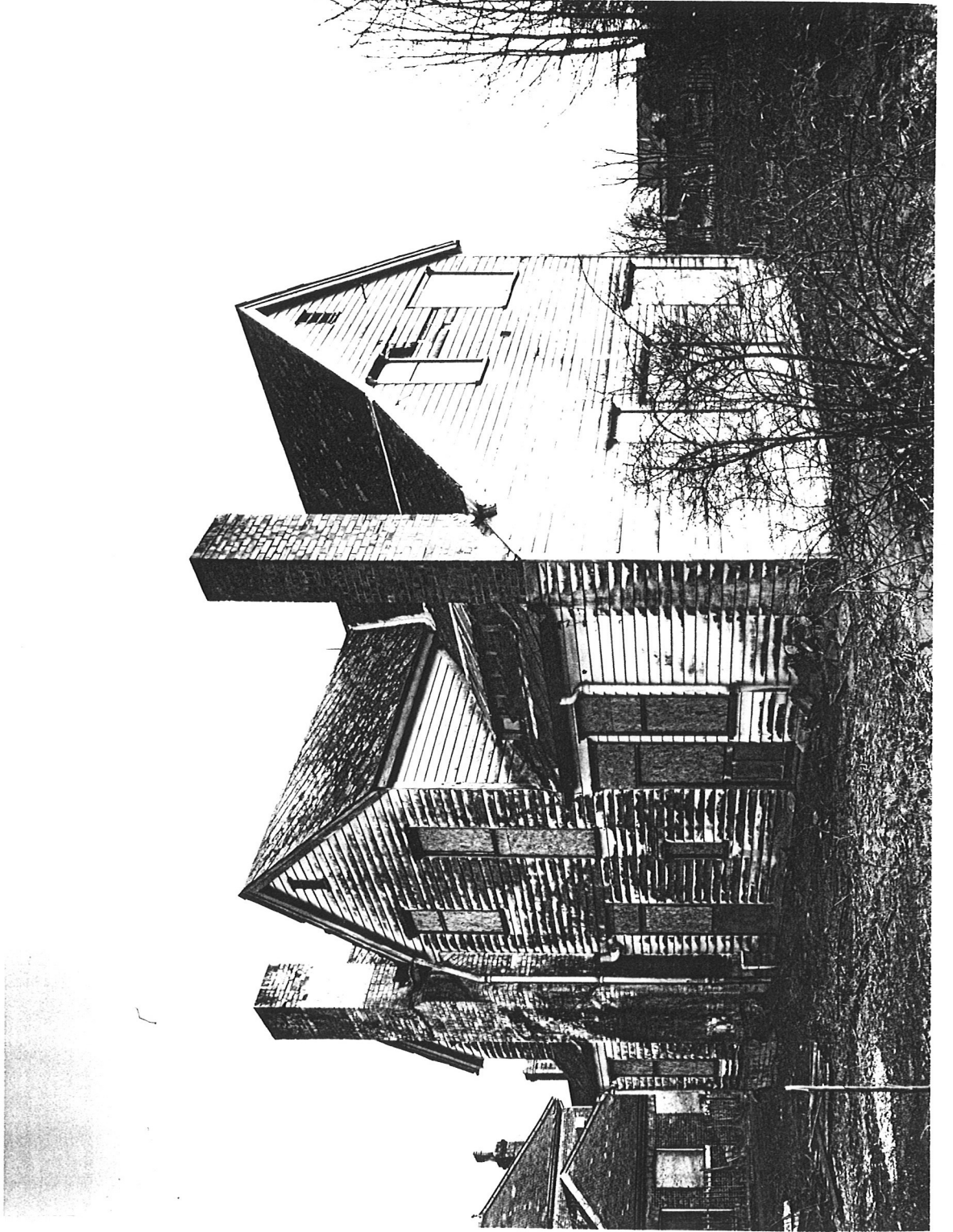
A separate brick structure on the north side of the house is divided into four sheds with four doors on its south side. It appears to be secondary and probably functioned as a coal store and general shed.

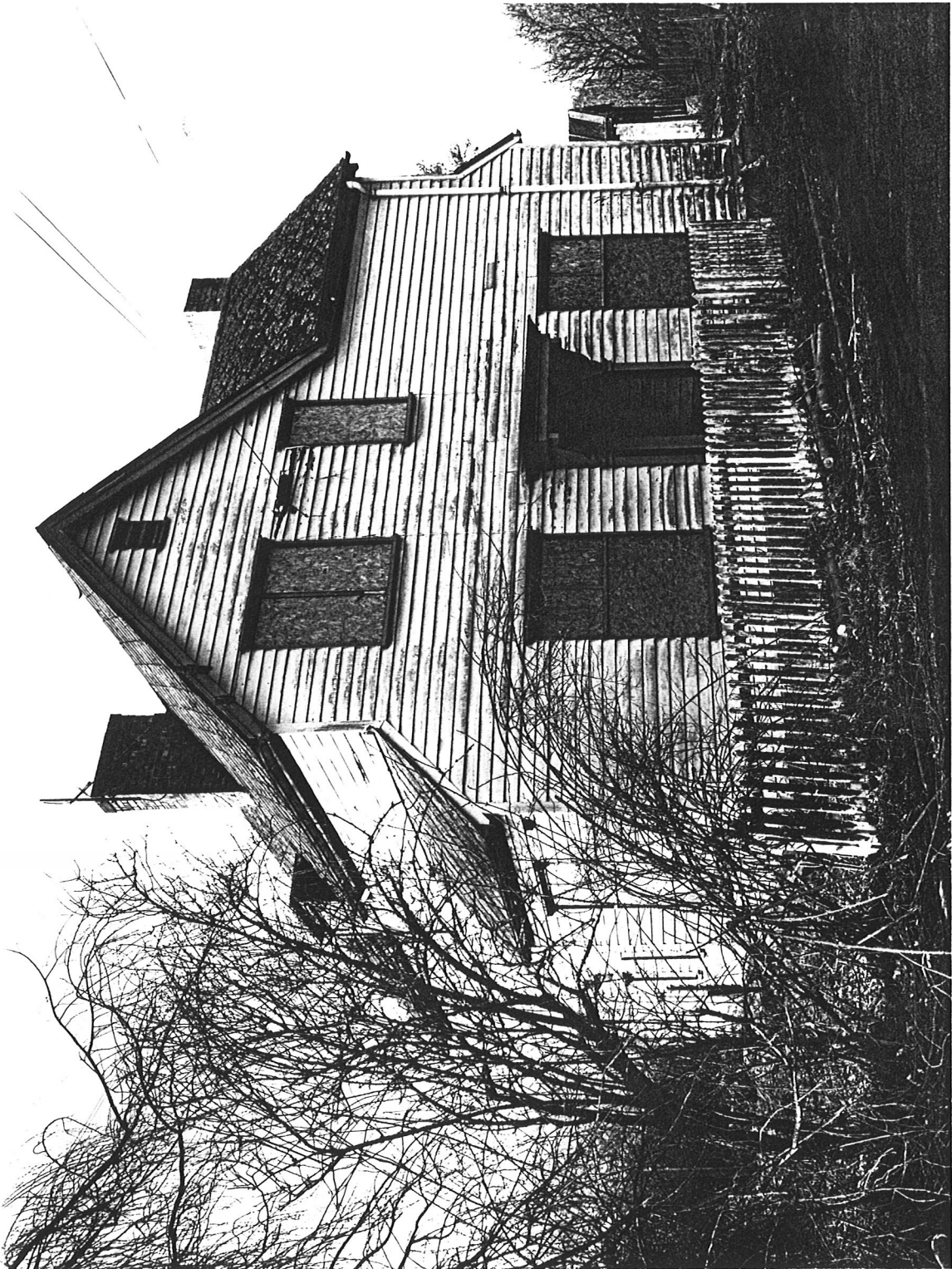
Main Reference: Plans and Elevations of Women's Hospital, dated 31/7/1916, cat. H25.B.02 (MOD Central Disposals Unit, Chessington).

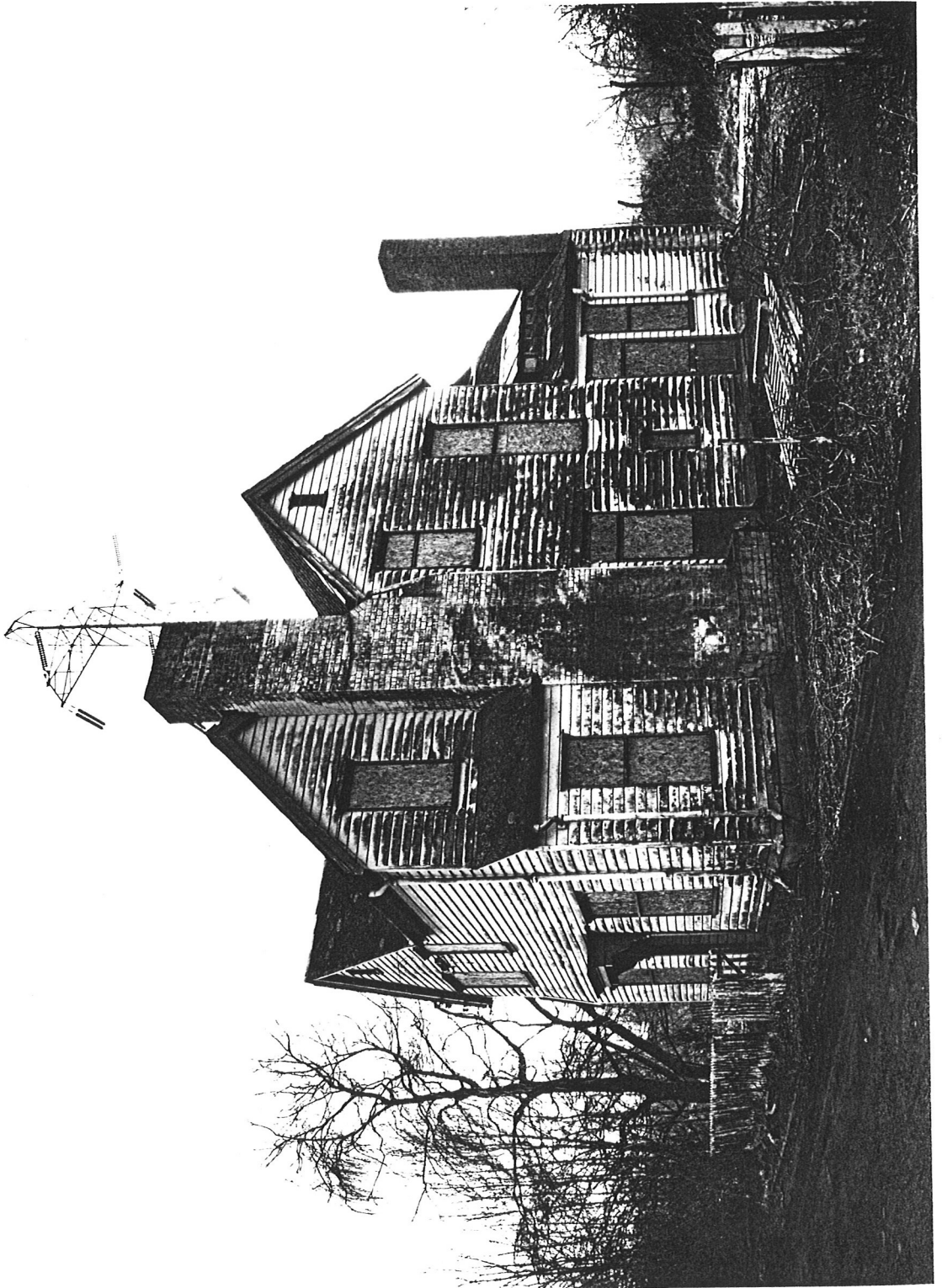
Surveyed March 1993
Report by R L Burgess











ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

**MOD Building No. H25
Women's Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex**

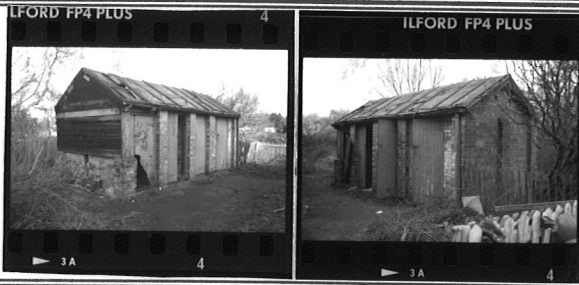
**NBR No: 91450
NGR: TL 37660 00665**

Built in 1916-17 as the Women's Hospital on site at the Royal Gunpowder Factory, building number H25 is a wood-framed building with a weatherboard exterior. It originally had a Y-shaped plan and comprised a two-storeyed rectangular main range with a pair of single-storey wards at the rear.

The main range contained rooms for the nurses, a kitchen and scullery, bathrooms and, at the west end, a single-storeyed operating room which has skylights in a flat roof. The wards, which each contained four beds and had, on the east side, a verandah, lobby and wc, were demolished within the last few decades.

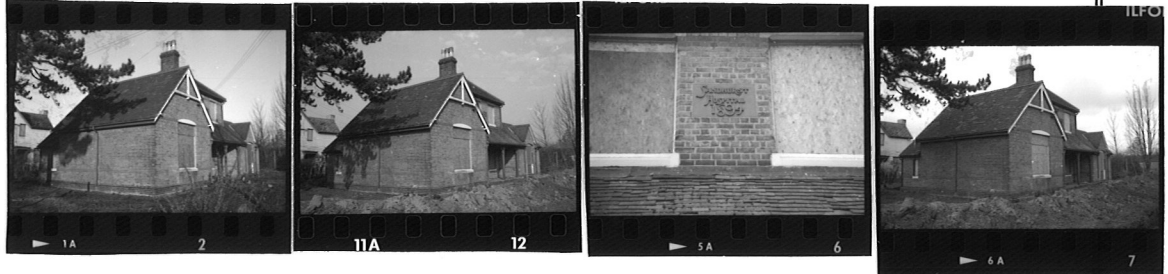
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H25a	OLD SERIES	RCHME NUMBER	N.G.R.
NAME/FUNCTION Toilet block		START DATE 1916	END DATE
			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/4 02 Feb 1993 From South West 206/S/4 16 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H25			
CONDITION Fair			
<p>DESCRIPTION</p> <ol style="list-style-type: none"> 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Roofing felt over timber boards 3) POWER SOURCE None 4) DIMENSIONS i) L 6.2m ii) W 2.95m iii) HT 3.2m 5) Small single gabled toilet block, four single doors on the south side. The western cubicle retains an ash pit while the others are floored. There is a single door on the rear of the building at the western end. 			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H26	OLD SERIES	RCHME NUMBER	N.G.R. TL 37678 00669
NAME/FUNCTION Sandhurst Hospital Flats		START DATE 1894 1947?	END DATE 1947?



<p>CARTOGRAPHIC DEPICTION</p> <p>1897 WASC 900/53C c1910 WASC 900/65 ; Hospital c1910 WASC 900/79 ; Hospital 1917 WASC 900/70 ; Mens Hospital 1917 WASC 900/72 ; Mens Hospital 1919 WASC 900/74 ; 276 c1920 WASC 900/80 ; 276 1923 WASC 900/84 ; 276 1932 WASC 900/87 ; 276 > 1940 WASC 900/91A ; 276 1954 A - B.34 ; H26 c1960 WASC 900/94 ; H26 c1963 WASC 900/97 ; H26 1972 WASC 900/102 ; H26 1972 WASC 900/104 ; H26 1976 WASC 900/113 ; H26</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPf Ledger WASC 1509 + WASC 1764 ; Hospital c1925 RGPf Ledger WASC 1680 ; Hospital (H26) c1945 RGPf Ledger WASC 1508 ; Hospital</p> <p>Plans; H26 B01 - B05 Plans and Elevations 1894 to 1949</p> <p>1972 ERDE List ; Residential/Old Sandhurst Hospital 1992 RARDE List ; Residential/Old Sandhurst Hospital</p> <p>1993 RCHME NBR No.91449</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>1) Strand Magazine 1895</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/2 02 Feb 1993 Sandhurst Hospital from South 206/N/12 12 Mar 1993 Sandhurst Hospital from South East 206/S/6 16 Mar 1993 Sandhurst Hospital 1894 plaque 206/S/7 16 Mar 1993 Sandhurst Hospital from South East</p> <p>2) BB92/26037 H26 Sandhurst Hospital built 1894 view from South West BB92/26038 H26 Sandhurst Hospital built 1894 view from South East BB92/26230 H26 Sandhurst Hospital 1894 Interior,ground floor North room,view from West.</p>
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RELATIONSHIPS WITH OTHER MONUMENTS	
ASSOCIATED WITH: H25	
CONDITION	Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Tile
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 17.4m ii) W 13.1m iii) HT estimate 7m
- 5) A terracotta plaque on the east wall has the following legend 'Sandhurst Hospital 1894'.

See attached RCHME Threatened Buildings Section report.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

**MOD Building No. H26
Sandhurst Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex**

**NBR No: 91449
NGR: TL 37678 00669**

The Sandhurst Hospital was built in 1894 as a short-stay surgery for injured workmen at the Royal Gunpowder Factory. It contained two wards, containing six or seven beds in total, three nurses' rooms, a cook's room, a kitchen, a scullery, and a store. The building is constructed of yellow brick with red brick bands, and has a timber verandah and timber trussed gables. It has a T-shaped plan, the central part of which rises to two storeys.

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Named after Lord Sandhurst, who officially opened the building shortly after it was completed in 1894,¹ the new hospital was described in 1895 as standing "... close to one of the myriad streams that intersect the vast grounds of the factory, and is intended solely for the benefit of injured workmen".²

T-shaped in plan, the overall dimensions of the building are 17.4 x 13.1 metres. The height of the central two-storeyed block is approximately seven metres. Behind a verandah on the east side of the building, the main entrance led to a lobby which, in turn, led to the ground floor rooms and to stairs to the first floor. On the south side of the lobby is a heated room which was the nurse's room, with a window on its south wall for viewing a ward at the southern end of the building. This ward, which contained four beds, has a fireplace on its north wall and a projection off its west side for a sink and earth closet. A heated room on the north-east side of the lobby was a ward for two or three beds. The projecting western side of the building contains rooms which were originally a kitchen, a cook's room, a scullery, a bathroom and a store. At the north-west end of the lobby is a straight staircase with winders at the top and bottom. Beside the stair is a back door leading to an outside earth closet and sink.

¹ A stone plaque on the east front reads 'Sandhurst Hospital 1894'.

² "How Explosives are Made" by William G. Fitzgerald, The Strand Magazine, Vol IX Jan-June 1895.

The first floor rooms were two nurses' rooms, only the south one of which was heated, and a linen closet.

The building is constructed of yellow brick which is laid in English bond except in the western projections, at the back of the building, where the bricks are in Flemish bond. There is a plinth of chamfered black brick and above, at approximately one metre up from the ground level, a band of red brick. On the east front are two further bands of red brick below the eaves. The windows have cambered heads of rubbed red-brick and chamfers to the bricks at the sides.

Timber features in the building include posts of the verandah, which are of chamfered timber with moulded timber braces, trussed gables at the south sides of the east and west elevations, and the staircase which has turned newel posts and plain balusters. The doors are four-panelled.

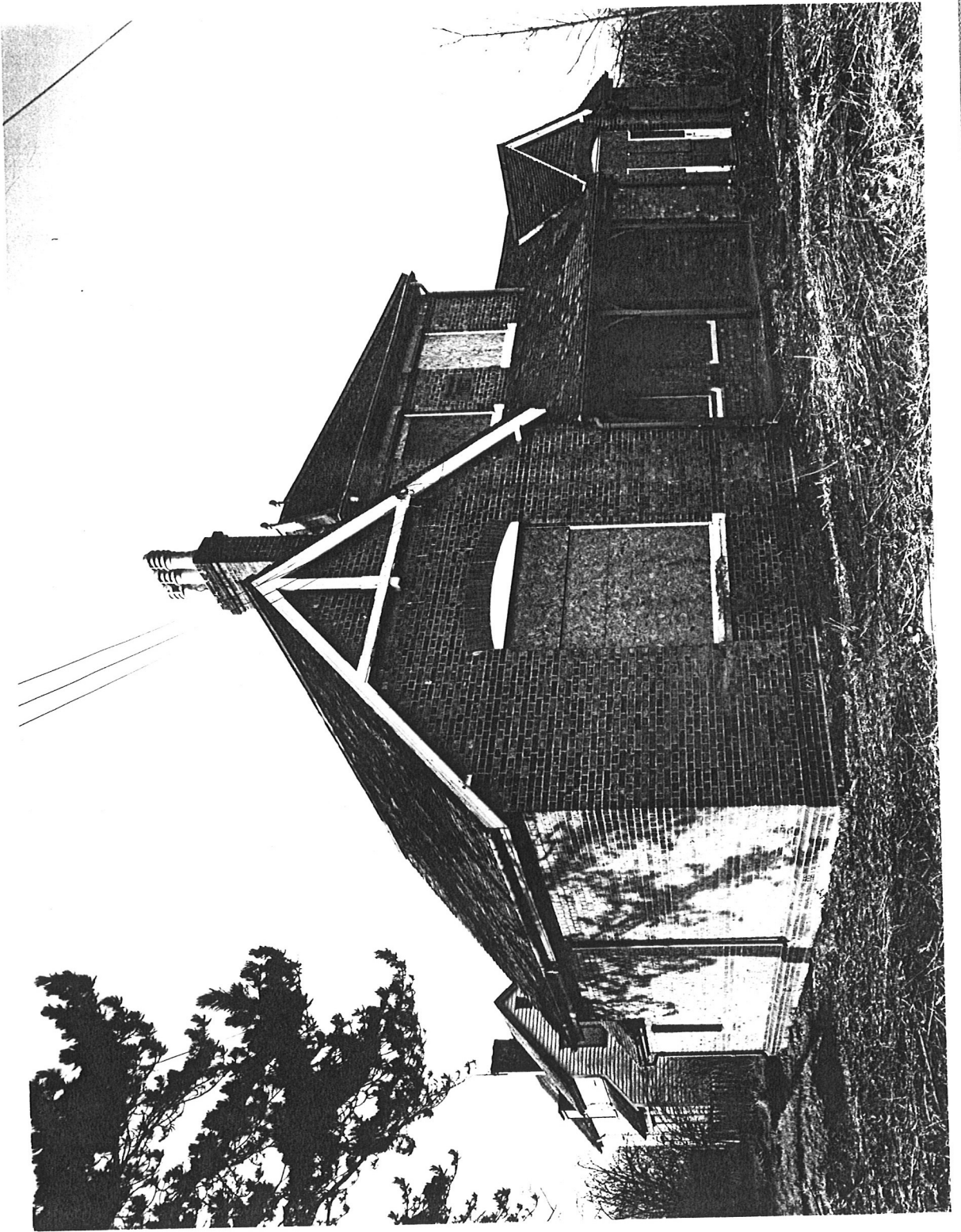
The roof, which is tile-covered, has gables at the north and south ends, a lean-to for the verandah, and hips for both the projection at the centre of the west elevation and the two-storeyed block.

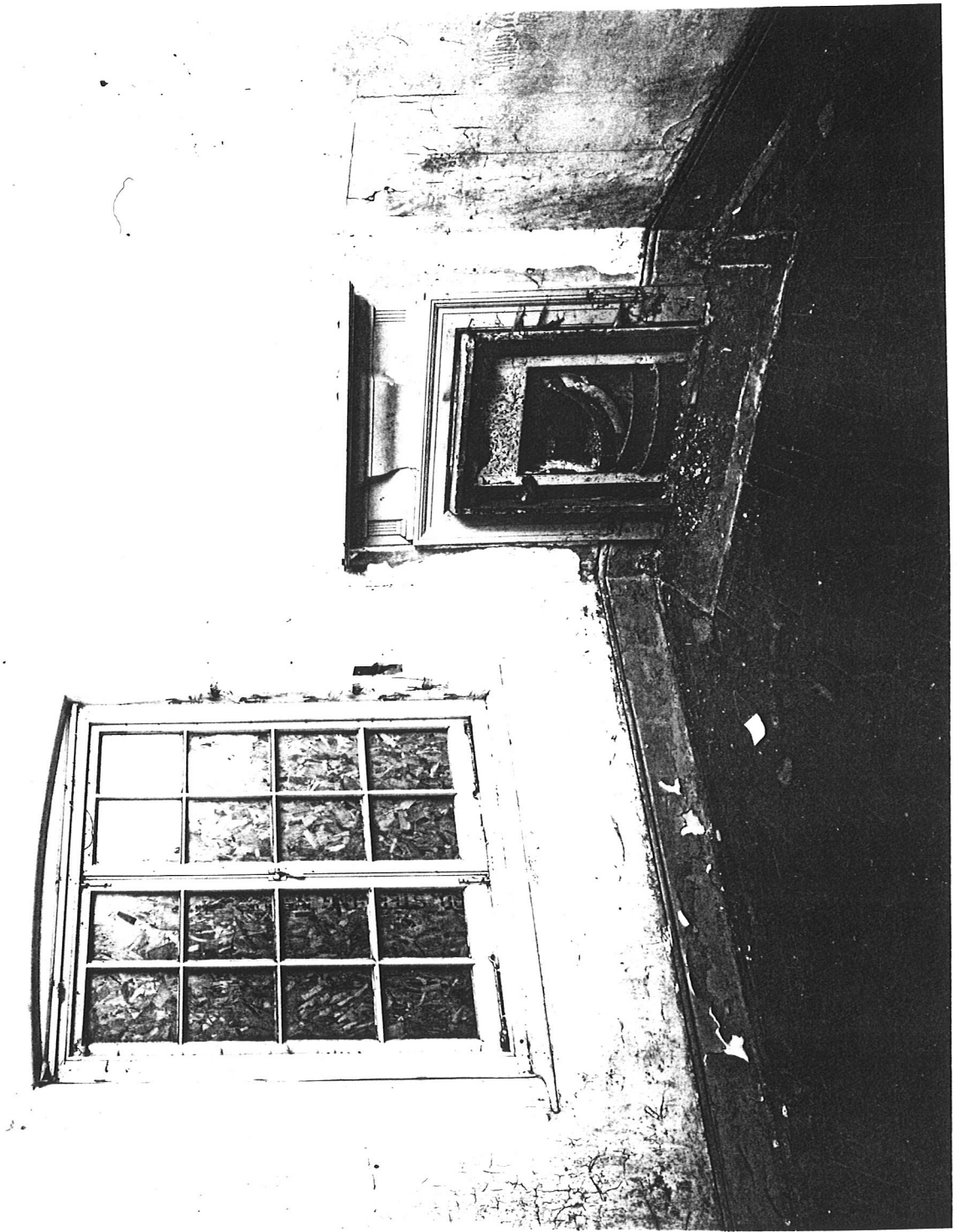
Later alterations to the building relate to its conversion to two dwellings. The main entrance doorway on the east elevation was blocked, and a new doorway inserted on the west elevation for the new dwelling at the south end. The dwelling at the northern end of the building, which included the first floor rooms, was entered both by the original back door on the north side and by double doors which were inserted in place of a three-light window on the east elevation.

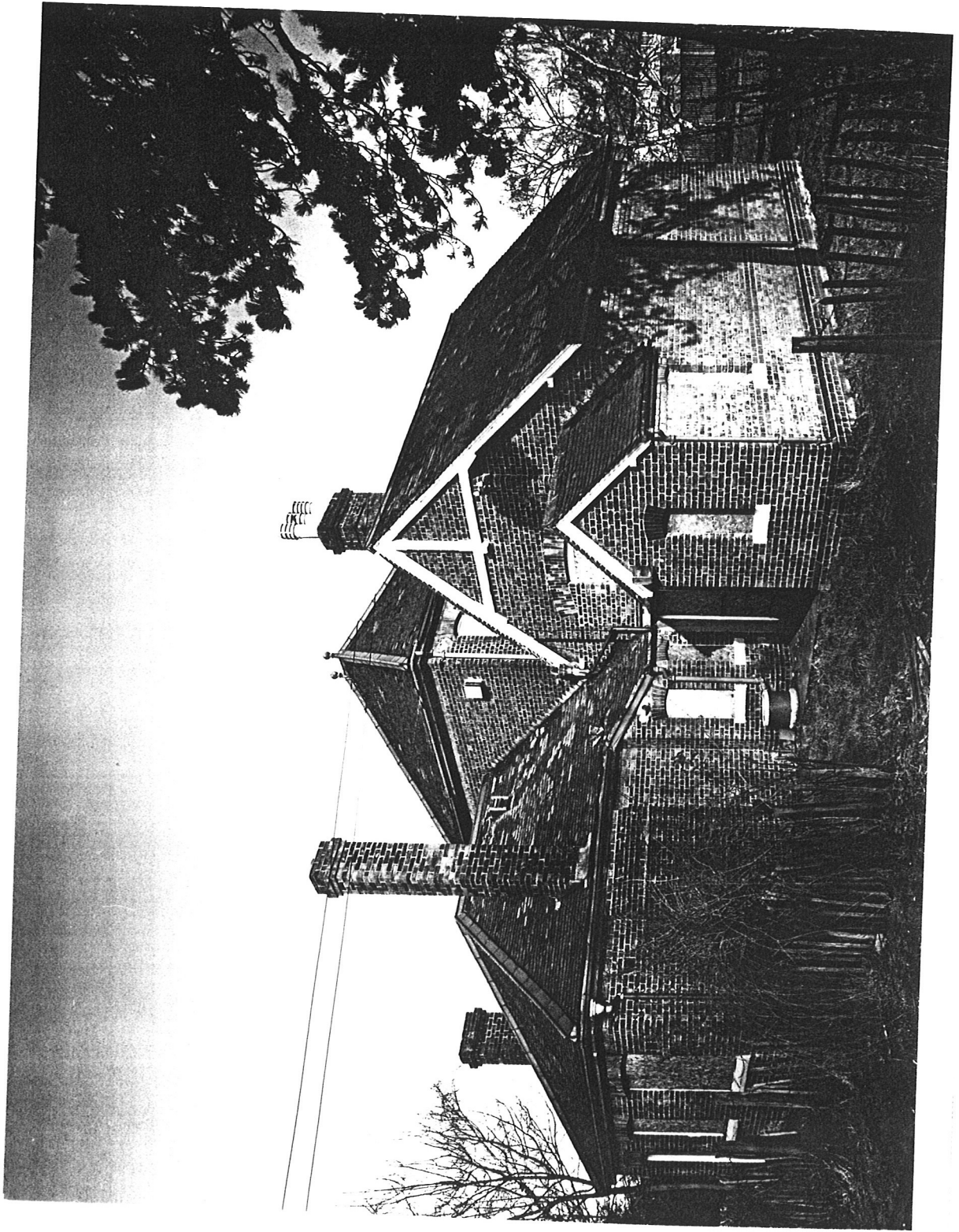
References

Drawings of plans and elevations of Cottage Hospital, Waltham Abbey, dated 1893 - H-26/2 and H26/3 (cat. H26.B.04), MOD Central Disposals Unit, Chessington.

Surveyed March 1993
Report by R L Burgess







ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

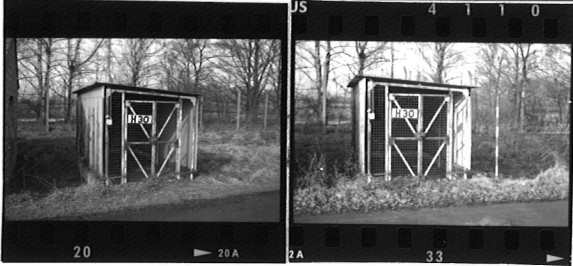
**MOD Building No. H26
Sandhurst Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex**

**NBR No: 91449
NGR: TL 37678 00669**

The Sandhurst Hospital was built in 1894 as a short-stay surgery for injured workmen at the Royal Gunpowder Factory. It contained two wards, containing six or seven beds in total, three nurses' rooms, a cook's room, a kitchen, a scullery, and a store. The building is constructed of yellow brick with red brick bands, and has a timber verandah and timber trussed gables. It has a T-shaped plan, the central part of which rises to two storeys.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H30	OLD SERIES	RCHME NUMBER	N.G.R. TL 37604 00867
NAME/FUNCTION Solvent store		START DATE 1970?	END DATE 1992
			
CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; H30 1972 WASC 900/104 ; H30 1976 WASC 900/113 ; H30		DOCUMENTARY REFERENCES 1972 ERDE List ; Solvent Store 1992 RARDE List ; Solvent Store	


PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/1/33 01 Feb 1993 From East 206/S/20 17 Mar 1993 From East
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RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:
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CONDITION Fair

DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Corrugated iron over steel frame 2) ROOF MATERIALS AND STRUCTURE Corrugated iron 3) POWER SOURCE None 4) DIMENSIONS i) L 4.1m ii) W 2.2m iii) HT 2.1m 5) Small rectangular store with metal mesh gate to east.
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H31	OLD SERIES	RCHME NUMBER	N.G.R. TL 37675 00795
NAME/FUNCTION Sewer pump house		START DATE 1956	END DATE
			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1963 WASC 900/97 ; H31 1972 WASC 900/102 ; H31 1972 WASC 900/104 ; H31 1976 WASC 900/113 ; H31</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; H66 B01 - B02 Plans and Elevations 1950 to 1951 1972 ERDE List ; Sewer Pump House 1992 RARDE List ; Sewer Pump House</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/H/6 02 Feb 1993 From South West 206/S/2 16 Mar 1993 From North East</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: H17, L126, L170</p>			
<p>CONDITION Good</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>2) ROOF MATERIALS AND STRUCTURE Roofing felt over timber boards</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 4.4m ii) W 3.5m iii) HT 2.79m</p> <p>5) The pump house is a small rectangular building set on a low earthen mound. The building is entered through a single door on the north side.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H32	OLD SERIES	RCHME NUMBER	N.G.R. TL 37608 00928
NAME/FUNCTION Portacabin offices		START DATE 198?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
		1972 ERDE List ; Portacabin Offices 1992 RARDE List ; Portacabin Offices	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: H10			
CONDITION Good			
DESCRIPTION Modern portacabin not described.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H64	OLD SERIES	RCHME NUMBER	N.G.R. TL 37673 00909
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NAME/FUNCTION Process Water Supply To Building H12	START DATE 1948?	END DATE
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

1972 WASC 900/102 ; H64
1972 WASC 900/104 ; H64

DOCUMENTARY REFERENCES

Plans;
H64 B01 - B03 Plans and Elevations 1948

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

RELATIONSHIPS WITH OTHER MONUMENTS


ASSOCIATED WITH:

CONDITION Demolished

DESCRIPTION

5) No surface remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H65	OLD SERIES	RCHME NUMBER	N.G.R. TL 37592 00900
NAME/FUNCTION Liquid fuel magazine		START DATE 1949	END DATE 1992
			
CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; H65 1972 WASC 900/104 ; H65 1976 WASC 900/113 ; H65		DOCUMENTARY REFERENCES Plan; H65 B01 - 18/4/1949 ; Layout of Dithekite Store 1972 ERDE List ; Small Concrete Shelter 1992 RARDE List ; Locker Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/34 01 Feb 1993 From South 206/T/37 17 Mar 1993 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H12			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze block 2) ROOF MATERIALS AND STRUCTURE Corrugated asbestos 3) POWER SOURCE None 4) DIMENSIONS i) L 3.3m ii) W 1.9m iii) HT 2.5m 5) The fuel magazine is a small rectangular breeze block structure with an entrance on the northern side, set within an earthen mound.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H66	OLD SERIES	RCHME NUMBER	N.G.R. TL 37640 00924
NAME/FUNCTION Locker Magazine		START DATE 1950?	END DATE 1992
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H66 c1963 WASC 900/97 ; H66 1972 WASC 900/102 ; H66 1972 WASC 900/104 ; H66 1976 WASC 900/113 ; H66		DOCUMENTARY REFERENCES Plans; H66 B01 - B02 ; Plans and Elevations 1950 to 1951 1972 ERDE List ; Locker Magazine 1992 RARDE List ; Locker Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/K/3 01 Feb 1993 From South West 206/K/7 01 Feb 1993 North side from West 206/S/29 17 Mar 1993 Locker Magazine Interior from West 206/S/31 17 Mar 1993 Locker Magazine from North East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H10			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated asbestos 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 9.8m ii) W 2.6m iii) HT Gable 3.05m 5) The magazine is brick built with gabled ends. The magazine was entered through single doors painted red at either end of the northern side. Adjacent to each door on the outside of the building is a small shelf. The building is protected by a copper lightning conductor. Internally are six magazine lockers along the northern side of the building.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H67a,b,c	OLD SERIES	RCHME NUMBER	N.G.R. TL 37560 01165
NAME/FUNCTION Ballistics Laboratory Mechanical testing areas		START DATE 1956	END DATE



CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H67 c1963 WASC 900/97 ; H67 1972 WASC 900/102 ; H67 1972 WASC 900/104 ; H67 1976 WASC 900/113 ; H67	DOCUMENTARY REFERENCES Plans; H67 B01 - B5£ ; Plans and Elevations 1955 to 1968 1972 ERDE List ; Mechanical Testing Areas (a,b,c) 1992 RARDE List ; Mechanical Testing Areas (a,b,c)
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/H/14 02 Feb 1993 Labs from South East 206/H/15 02 Feb 1993 West end blast wall 206/Q/30 16 Mar 1993 Front Elevation from South 2) BB92/26054 H67 Mechanical Testing Ballistics Lab from North West BB92/26055 H67 Mechanical Testing Interior West chamber from North East BB92/26056 H67 Mechanical Testing Test Bed from North East <i>206/Q/37 16 Mar 1993 Rear elevation from W. ST</i>
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RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H68, H69, H70, H72
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CONDITION FAIR

DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab covered by roofing felt 3) POWER SOURCE Electricity and steam heat 4) DIMENSIONS i) L 58.4m ii) W 12.8m iii) HT 3.8m 5) H67 is a single storey laboratory with a central corridor giving access to rooms on either side. At the western end of the building is a firing bay formerly closed by double metal doors protected by a breeze block blast wall.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H68	OLD SERIES	RCHME NUMBER	N.G.R. TL 37554 01192
NAME/FUNCTION Test bed		START DATE 1956	END DATE
			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H68 c1963 WASC 900/97 ; H68 1972 WASC 900/102 ; H68 1972 WASC 900/104 ; H68 1976 WASC 900/113 ; H68		DOCUMENTARY REFERENCES Plans; H68 B01 - B06 ; Plans and Elevations 1955 to 1975 1972 ERDE List ; Test Bed 1992 RARDE List ; Test Bed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/16 02 Feb 1993 From South East 206/H/17 02 Feb 1993 From East 206/Q/34 16 Mar 1993 From East 206/Q/35 16 Mar 1993 From South East 206/Q/36 16 Mar 1993 From South West 2) BB92/26057 H68 Firing Point from South West BB92/26058 H68 Firing Point from North East BB92/26059 H68 Interior of Firing Point South West chamber from South West BB92/26060 H68 Interior of Firing Point South West chamber detail North wall & floor	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H67, H69, H70, H72			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Reinforced Concrete 2) ROOF MATERIALS AND STRUCTURE Concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 11.45m ii) W 8.35m iii) HT 2.9m 5) The Test Bed has a central control room with two firing bays to the west and a single bay to the east. Small apertures in the northern wall of the building are protected by baffle walls constructed from railway sleepers and breeze block.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER

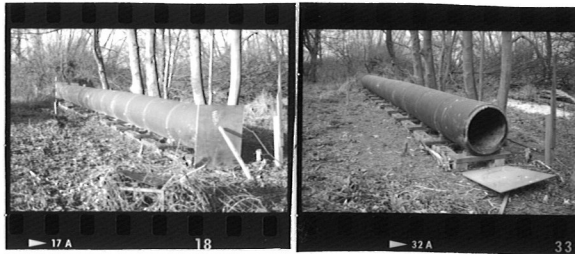
CONTINUATION SHEET



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H68a	OLD SERIES	RCHME NUMBER	N.G.R. TL 37544 01212
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NAME/FUNCTION Firing Tunnel	START DATE 1958?	END DATE
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CARTOGRAPHIC DEPICTION

DOCUMENTARY REFERENCES

1972 ERDE List ; Firing Tunnel/PCC Pipe
1992 RARDE List ; Firing Tunnel/PCC Pipe

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

1) 206/H/18 02 Feb 1993 From
206/Q/33 16 Mar 1993 Firing tube from East

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H67, H68, H69, H70, H72

CONDITION FAIR

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Pre-cast concrete
- 3) POWER SOURCE
None
- 4) DIMENSIONS i) L 14.86m ii) W - iii) HT - iv)DIA 0.93m
- 5) The firing tunnel is constructed from twelve segments of pre-cast concrete pipe set on breeze block and timber supports. Fragments of breeze block base indicate that it once extended further westwards.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H69	OLD SERIES	RCHME NUMBER	N.G.R. TL 37576 01189
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NAME/FUNCTION Magazine (Cordite Store)	START DATE 1958	END DATE
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CARTOGRAPHIC DEPICTION

c1960 WASC 900/94 ; H69
 c1963 WASC 900/97 ; H69
 1972 WASC 900/102 ; H69
 1972 WASC 900/104 ; H69
 1976 WASC 900/113 ; H69

DOCUMENTARY REFERENCES

1972 ERDE List ; Magazine
 1992 RARDE List ; Magazine

PHOTOGRAPHY HISTORIC

PHOTOGRAPHY RCHME

1) 206/H/20 02 Feb 1993 From West
 206/Q/31 16 Mar 1993 From South West

RELATIONSHIPS WITH OTHER MONUMENTS


ASSOCIATED WITH: H67, H68, H70, H72

CONDITION Poor


DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated abestos
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 5.25m ii) W 3.25m iii) HT 2.8m
- 5) The magazine was fired in 1992. The magazine was entered through a single red steel door on the west side.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H70	OLD SERIES	RCHME NUMBER	N.G.R. TL 37573 01200
NAME/FUNCTION Solvent store		START DATE 1958	END DATE 1992
			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H70 c1963 WASC 900/97 ; H70 1972 WASC 900/102 ; H70 1972 WASC 900/104 ; H70 1976 WASC 900/113 ; H70		DOCUMENTARY REFERENCES 1972 ERDE List ; Solvent Store 1992 RARDE List ; Solvent Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/19 02 Feb 1993 From West 206/Q/32 16 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H67, H68, H68a, H69, H72			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 2.6m ii) W 2m iii) HT 2.78m 5) The store is a single storey brick building with a flat concrete roof. It is entered by a single yellow door on the west side with brass furniture. The interior is shelved and lit by electric lights.			

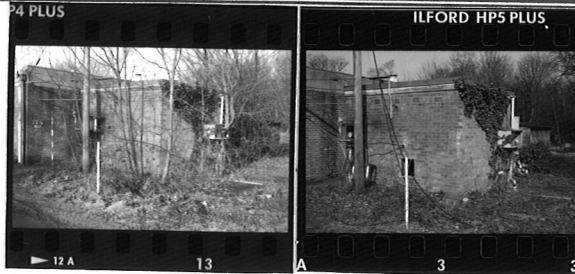
THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H71	OLD SERIES	RCHME NUMBER	N.G.R. TL 37610 00943
NAME/FUNCTION Offices for propellant section		START DATE 1956	END DATE
			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H71 c1963 WASC 900/97 ; H71 1972 WASC 900/102 ; H71 1972 WASC 900/104 ; H71 1976 WASC 900/113 ; H71		DOCUMENTARY REFERENCES Plans; H71 B01 - B10 ; Plans and Elevations 1956 to 1970 1972 ERDE List ; Offices Adjoining H10 1992 RARDE List ; Offices Adjoining H10	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/8 02 Feb 1993 From South West 206/T/1 17 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H10			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Roofing felt over flat roof 3) POWER SOURCE Electricity and steam heat 4) DIMENSIONS i) L 14.5m ii) W 9.3m iii) HT 3.1m 5) The offices are joined to H10 by a short corridor. Entry to the offices was also gained through double doors on the north and south sides. The full length of the western side of the building is glazed while the eastern side is lit by smaller windows.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H72	OLD SERIES	RCHME NUMBER	N.G.R. TL 37590 01166
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NAME/FUNCTION Compressor house for H67	START DATE 1960	END DATE 1992
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CARTOGRAPHIC DEPICTION

c1960 WASC 900/94 ; H72
 c1963 WASC 900/97 ; H72
 1972 WASC 900/102 ; H72
 1972 WASC 900/104 ; H72
 1976 WASC 900/113 ; H72

DOCUMENTARY REFERENCES

Plan;
 H72 B01 - 13/11/1959 ; Proposed Building for Nitrogen Compressor

 1972 ERDE List ; Compressor House for H67
 1992 RARDE List ; Compressor House for H67

PHOTOGRAPHY HISTORIC

PHOTOGRAPHY RCHME

1) 206/H/13 02 Feb 1993 From South East
 206/L/3 09 Mar 1993 From South East

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H67

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Flat timber boards covered by roofing felt.
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 3.8m ii) W 3.15m iii) HT 2.75m
- 5) A small brick building entered from the north side through double yellow painted doors. Externally on the south wall are two pressure guages by Budenburg Broadheath Manchester housed in a protective casing.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 314	N.G.R. TL 37687 00589
NAME/FUNCTION Building		START DATE 1827-65	END DATE 1890?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/38 + SUPP5 975		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 315	N.G.R. TL 37658 00606
NAME/FUNCTION Copper Smiths Forge		START DATE 1806-27	END DATE 1890?-1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1827 WASC 900/04 + MPHH 271 ; Copper Smiths Forge 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
		313	TL 37672 00608
NAME/FUNCTION		START DATE	END DATE
Saltpetre Refinery Building		1801-06	1827
Sulphur Refining House		1827	1865?
Gun Cotton Building		1865?	189?-1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1806?	WO 78/1352 + MR 580	1807	Statement of Property WO55 2694
1827	WASC 900/04 + MPH 271 ; Sulphur Refining House	1830	Statement of Property WO55 2351
1830	WO55 2694	1841	Statement of Property WO55 2856
1830	WASC 900/05	1851	Statement of Property WO55 3027
c1830	WASC 900/06		
c1835	WASC 900/07		
1861-1868	WASC 900/10A		
1865	WASC 900/13		
1865	WASC 900/14		
1871	SUPP5 682		
1865	WASC 900/38 + SUPP5 975 ; Gun Cotton		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION			
No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 312	N.G.R. TL 37690 00594
NAME/FUNCTION Saltpetre Refinery Building		START DATE 1801-06	END DATE pre 1827
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1806? WO 78/1352 + MR 580 ; illegible		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

L128 (MOD) TL 37520 01325

JANUARY 1976 "PERME Waltham Abbey" North site Scale 1:2500

NOVEMBER 1972 "ERDE Waltham Abbey" North site Scale 1:2500

APRIL 1972 "ERDE Waltham Abbey" North site Scale 1:2500

Circa 1963 No Title, ERDE North site est. Scale 1:2500

Post 1940 "Royal Gunpowder Factory, Waltham Abbey" North and South sites est. Scale 1:2500 - "L128"

JUNE 1932 "Royal Gunpowder Factory, Waltham Abbey" North and South sites Scale 1:2500 - "150A"

MARCH 1923 "Royal Gunpowder Factory, Waltham Abbey" North site Sheet 1 Scale 1:2500 - "150A"

Circa 1920 "Royal Gunpowder Factory, Waltham Abbey" North and South sites Scale 1:2500 - "150A"

1919 (1917, rev. March 1919) "Royal Gunpowder Factory, Waltham Abbey" North site Sheet 1 Scale 1:2500 - "150A"

SEPTEMBER 1917 "Royal Gunpowder Factory, Waltham Abbey" North site Scale 1:2500 - "150A"

JUNE 1917 "Royal Gunpowder Factory, Waltham Abbey" North site Scale 1:2500 - "Fuse Powder Magazine No. 2"

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 314	N.G.R. TL 37687 00589
NAME/FUNCTION Building		START DATE 1827-65	END DATE 1890?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/38 + SUPP5 975		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 315	N.G.R. TL 37658 00606
NAME/FUNCTION Copper Smiths Forge		START DATE 1806-27	END DATE 1890?-1900?

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPHH 271 ; Copper Smiths Forge</p> <p>1830 WO55 2694</p> <p>1830 WASC 900/05</p> <p>c1830 WASC 900/06</p> <p>c1835 WASC 900/07</p> <p>1861-1868 WASC 900/10A</p> <p>1865 WASC 900/13</p> <p>1865 WASC 900/14</p> <p>1871 SUPP5 682</p> <p>1865 WASC 900/38 + SUPP5 975</p>	<p>DOCUMENTARY REFERENCES</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 313	N.G.R. TL 37672 00608
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NAME/FUNCTION Saltpetre Refinery Building Sulphur Refining House Gun Cotton Building	START DATE 1801-06 1827 1865?	END DATE 1827 1865? 189?-1900?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPH 271 ; Sulphur Refining House 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975 ; Gun Cotton</p>	<p>DOCUMENTARY REFERENCES</p> <p>1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 1841 Statement of Property WO55 2856 1851 Statement of Property WO55 3027</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 312	N.G.R. TL 37690 00594
NAME/FUNCTION Saltpetre Refinery Building		START DATE 1801-06	END DATE pre 1827
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1806? WO 78/1352 + MR 580 ; illegible		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 311	N.G.R. TL 37694 00596
NAME/FUNCTION Saltpetre Refinery		START DATE pre 1783	END DATE 1806
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1783 WASC 900/01 + MR 593 1783 WASC 900/01A 1801 WASC 900/58 + MR 580		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 314	N.G.R. TL 37687 00589
NAME/FUNCTION Building		START DATE 1827-65	END DATE 1890?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/38 + SUPP5 975		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 315	N.G.R. TL 37658 00606
NAME/FUNCTION Copper Smiths Forge		START DATE 1806-27	END DATE 1890?-1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1827 WASC 900/04 + MPHH 271 ; Copper Smiths Forge 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION			
No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 313	N.G.R. TL 37672 00608
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NAME/FUNCTION Saltpetre Refinery Building Sulphur Refining House Gun Cotton Building	START DATE 1801-06 1827 1865?	END DATE 1827 1865? 189?-1900?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPHH 271 ; Sulphur Refining House 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975 ; Gun Cotton</p>	<p>DOCUMENTARY REFERENCES</p> <p>1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 1841 Statement of Property WO55 2856 1851 Statement of Property WO55 3027</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 312	N.G.R. TL 37690 00594
NAME/FUNCTION Saltpetre Refinery Building		START DATE 1801-06	END DATE pre 1827
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1806? WO 78/1352 + MR 580 ; illegible		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 311	N.G.R. TL 37694 00596
NAME/FUNCTION Saltpetre Refinery		START DATE pre 1783	END DATE 1806
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1783 WASC 900/01 + MR 593 1783 WASC 900/01A 1801 WASC 900/58 + MR 580		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 288	RCHME NUMBER	N.G.R. TL 37661 00592
NAME/FUNCTION Gun Cotton Refining House Acetone Factory,Clean Machinery Store,Acetate of Lime General Store	START DATE 1865? 1890? 1923?	END DATE 1890? 1923? 1958?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/38 + SUPP5 975 ; Store 1923 WASC 900/84 ; 288 1932 WASC 900/87 ; 288 > 1940 WASC 900/91A 1954 A - B.34 ; HS 30 c1960 WASC 900/94 ; H30		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetone Refinery c1925 RGPF Ledger WASC 1680 ; Acetone Refinery c1945 RGPF Ledger WASC 1508 ; Acetone Refinery	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION			
5) No surface remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 291	RCHME NUMBER	N.G.R. TL 37665 00582
NAME/FUNCTION Acetate of Lime & Drum Store Clean Store		START DATE pre 1872 1900?	END DATE 1900? 1958?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/38 + SUPP5 975 ; illegible 1923 WASC 900/84 ; 291 1932 WASC 900/87 ; 291 > 1940 WASC 900/91A 1954 A - B.34 ; HS 31 c1960 WASC 900/94 ; HS31		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetate of Lime & Drum Store c1925 RGPF Ledger WASC 1680 ; Acetate of Lime & Drum Store c1945 RGPF Ledger WASC 1508 ; Acetate of Lime & Drum Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION			
5) No surface remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	O . D SERIES	RCHME NUMBER 100	N.G.R.
NAME/FUNCTION Narrow guage railway swing bridge		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1) WASC 901/282 Drawing E 120 7-Feb-1917	
PHOTOGRAPHY HISTORIC 1) Jenkins J M 1989 p394		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Poor			
<p>DESCRIPTION</p> <p>The remains of the swing bridge comprise the central concrete pier in the middle of the canal and a concrete abutment on the western bank. The line of the tramway may be followed westwards as an earthwork embankment for 15m with a width of 3.9m.</p> <p>The bridge formerly comprised a fixed eastern section and a section on the western side that swung on a turntable fixed to the west bank (Jenkins 1989, 394). The fixed eastern portion and the controlling signal was demolished in 1987 (Jenkins 1989, 413).</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 262	N.G.R.
NAME/FUNCTION Edge runner Capstan base		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Fair			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Limestone</p> <p>4) DIMENSIONS iii)w 0.46m iv)DIA 1.84m</p> <p>5) The gunpowder mill edge runner is set horizontally, the cracked stone has been strengthened by the addition of iron bars bolted and set in lead.</p> <p> The edge runner appears to have been reused as a base for a capstan probably to aid the passage of barges through the former canal to the south.</p>			

