

Waltham Abbey Royal Gunpowder Factory  
( Former RARDE North Site )

# Bridge Report

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**ERRATUM**

ALL WAP94 PHOTOGRAPH NUMBERS IN 'BRIDGE REPORT' ARE SUFFIXED WITH THE LETTER B FOR NEGATIVE LOCATION PURPOSES.

EXAMPLE:           WAP94 CP025  
                          becomes  
                          WAP94 CP025B



## **Waltham Abbey Royal Gunpowder Factory ( Former RARDE North Site )**

### **Introduction**

The aim of this report was to produce a record of the known bridges and service crossings on the North site which would be flexible enough to be added to, corrected and expanded in the future. It should not be regarded as a structural survey and any comments on the condition or stability of the bridges should be regarded as superficial visual impressions only.

Until now none of the crossings had MoD numbers and only half had RCHM numbers generated during the survey in 1993. Roughton Construction Engineers were commissioned to carry out a detailed survey of twenty of the major bridges also in 1993, this report includes those structures and continues their numbering system. The Royal Commission numbering system has been continued and RCHM component cards have been generated to expand that particular archive.

The report is in table form rather than prose for the following reasons;

- information is more accessible rather than hidden in text
- each box is expandable to accommodate new information
- new boxes or tables can be added easily
- tables can be removed and inserted to other relevant texts

It will be noticed that some bridges have no accompanying photograph. This is because the remains of those crossings are so slight that a photo would be meaningless in the context of this report. Archive photographs have been taken of these examples.

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 01	132	Flagstaff Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1832	TL 37725 00877	Fair/Good
<b>DESCRIPTION and CONDITION</b>		
<p>Cast Iron ribbed bridge with 6 arched ribs set on brick abutments. The deck is concrete with hand rails on either side.</p> <p>Original weight limit 2.5 tonne axle load reduced to 1.9 ton.</p> <p>Refer to Roughton survey report for detail of condition and drawings.</p> <p>The bridge also carries service pipes which are slung along eastern side.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP025 206/E/22 BB92/26065		L.- 7.00m W.- 3.90m
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughton <u>Bridge Assessment</u> p13-20 Drg. No 1 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 02	130	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s    Early 1970s	TL 37735 01000	Good
DESCRIPTION and CONDITION		
<p>Bailey type road bridge with 5 Tonne axle load limit. Steel structure with a timber deck with a footbridge on the eastern side, both set on concrete abutments. Refer to Roughtons survey for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP039	L.- 12.37m W.- 4.11m Ht.- 1.55m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.21 - 29 Drg. No 02 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 03	133	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s Early 1970s	TL 37690 00992	Good
DESCRIPTION and CONDITION		
<p>Modern footbridge constructed of two steel RSJs supporting a timber and asphalt deck and two tubular steel handrails.</p> <p>The bridge is set upon brick and concrete abutments. The bridge is flanked on either side by a number of service pipes</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP040 206/E/24		L.- 6.85m W.- 1.64m
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.30-36 Drg. No.03 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 04	271	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Mid 1950s Early 1960s	TL 37793 01115	Good
<b>DESCRIPTION and CONDITION</b>		
<p>Bailey type road bridge with 5 tonne axle load limit. Similar to bridge 02. Steel structure with a timber deck and a footbridge on the north side. The abutments seem to be concrete with timber piles.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p> <p>The bridge also carries a number of service pipes. The letters MKII are welded to either end of the bridge.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP023 206/Q/25	L.- 12.37m W.- 5.43m	
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> p.37-44 Drg. No. 04 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p> <p>1965 Drg. No. L-B.17 Plans and elevations of footbridge 10/9/1965</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 05	279	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1957	TL 37735 02156	Good
<b>DESCRIPTION and CONDITION</b>		
<p>The footbridge is constructed of a steel frame supporting a timber deck. All set on concrete abutments and has tubular steel handrails on either side. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP022	L.- 9.85m W.- 1.95m	
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> Drg. No. 05 May 1993  1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)  1957 Drg. No. L-B.10 Plans and Elevations 22/7/1957</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 06	269	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1955	TL 37675 01395	Good
DESCRIPTION and CONDITION		
<p>Reinforced concrete bridge with a concrete and asphalt deck. Bridge set on concrete abutments with rocker bearings between has tubular steel handrails on either side.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP021 206/Q/20	L.- 12.53m W.- 4.26m	
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.50-57 Drg. No. 06 June 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p> <p>1954 Drg No. L- B.05 (XD1/2)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 07	507	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1960s	TL 37545 01345	Good
DESCRIPTION and CONDITION		
<p>The bridge is constructed with a thick timber plank deck supported by two RSJ which in turn rest upon concrete abutments.  Refer to Roughtons survey report for details of condition and drawings.  Tubular steel handrails fitted are on either side.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP020	L.- 6.80m W.- 1.30m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.58-64 Drg No. 07 June 1993		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 08	228	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s early 1970s	TL 37680 02106	Good
<b>DESCRIPTION and CONDITION</b>		
<p>The bridge is constructed of concrete and steel. The deck, made up of concrete and asphalt is supported by RSJs which in turn lie on concrete abutments. Handrails are fitted to either side of the bridge with the outer security fence attached to the eastern side.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP018	L.- 7.50m W.- 3.05m	
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> p.63-71 Drg. No. 08 April 1993  1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 09	151	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s Early 1970s	TL 37725 01675	Fair/Poor
<b>DESCRIPTION and CONDITION</b>		
<p>The footbridge is made of timber and steel similar in construction to 07. The timber plank deck is supported by two RSJs which rest on concrete abutments. Handrail present on the northern side with the outer security fence attached to the southern edge.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP017	L.- 11.60m W.- 1.60m	
<b>DOCUMENTARY SOURCES</b>		
1993 Roughtons <u>Bridge Assessment</u> p.72-77 Drg. No. 09 April 1993		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 10	117	Brick Arch Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9	TL 37597 01800	Good
DESCRIPTION and CONDITION		
<p>The bridge is a brick arch supported to concrete abutments. It is constructed of blue engineers bricks and red/yellow stocks. The parapets, also of brick, have stone plaques set in either side with RGPF VR 1878 inscribed.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p> <p>5 tonne axle load limit.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP016 206/J/3	L.- 10.50m W.- 3.80m Ht.- 4.40m (parapet to water)	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.78-84 Drg. No. 10/1-2 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 11	238	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1971	TL 37715 02041	Good
<b>DESCRIPTION and CONDITION</b>		
<p>Bailey type bridge constructed of five steel panels which support a timber plank deck. The bridge is set on brick and timber abutments.  Refer to Roughtons survey report for details of condition and drawings.  "MKII" has been welded onto either end of the bridge.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP014	L.- 15.41m W.- 4.13m	
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> p.85-91 Drg. No. 11 May 1993  1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)  1971 Drg. No. S- B.49 22/6/1971</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 12 New BR 12	506	Steel Trough Road Bridge Concrete Box Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1972 (demolished Oct 1993) Rebuilt Dec 1993	TL 37653 02251	Demolished
DESCRIPTION and CONDITION		
<p>For Old Bridge refer to Roughtons survey report for details of condition and drawings.</p> <p>The new crossing is a box section concrete culvert. See documentary sources for drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP011		
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.91-98 Drg. No. S- B.53  1971 Drg. No. S - B. 53 Plans and Elevations  1993 Drg. No. 2247/101/102 Control Structure</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 13	106	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37546 01935	Good/ Fair
<b>DESCRIPTION and CONDITION</b>		
<p>Concrete aqueduct constructed of 5 concrete pipes overlain with poured concrete. At present no canal runs over the structure although the embankments and tow path still exist.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP005 206/H/35 206/T/11		L.- 10.97m W.- 15.55m
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> p.98-105 Drg. No. 13 1-2</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 14	112	Cast Iron Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9	TL 37565 01800	Good
<b>DESCRIPTION and CONDITION</b>		
<p>The aqueduct is constructed of cast iron panels. Each side piece is a single panel and the trough base is of iron plates bolted to the side sections. The aqueduct sits on brick abutments. the remains of a timber walkway exists on either side. Refer to Roughtons survey report for details of condition and drawings.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP94 CP015 206/D/17, 206/D/18 206/H/23, BB92/26105 BB92/26168, BB92/26169 BB92/26491		L.- 9.32m W.- 3.25m Dp.- 1.3m
<b>DOCUMENTARY SOURCES</b>		
1993 Roughtons <u>Bridge Assessment</u> p.105-111 Drg. No. 14 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 15	214	Cast Iron Aqueduct/Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9 1944?(bridge)	TL 37584 02131	Good/ Fair
<b>DESCRIPTION and CONDITION</b>		
Originally a cast iron aqueduct similar to 14. Later adapted to become a footbridge. The structure was also used to suspend a pipe across the Old River Lea. Refer to Roughtons survey report for details of condition and drawings.		
PHOTO NO.	DIMENSIONS	
WAP94 CP008	L.- 9.80m W.- 3.10m Dp.- 1.45m	
<b>DOCUMENTARY SOURCES</b>		
1903 WASC 901/198 27/5/03 Aqueduct No.5 (corrected to No.2) 1903 WASC 901/199 3/6/03 Aqueduct No.5 1993 Roughtons <u>Bridge Assessment</u> p.111-118 Drg. No. 15 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 16	113	Brick Arch Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9	TL 37548 01761	Good
<b>DESCRIPTION and CONDITION</b>		
<p>This brick arch bridge is similar in design to 10 with blue engineers bricks and red/yellow stocks.  Refer to Roughtons survey report for details of condition and drawings.  A stone plaque inset into the parapet reads," RGPF VR 1878"</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) 206/H/24 206/Q/26 BB92/26104 BB92/26459 WAP94 CP003		L.- 7.30m W.- 3.10m Ht.- 4.75m (parapet to canal base)
<b>DOCUMENTARY SOURCES</b>		
1993 Roughtons <u>Bridge Assessment</u> p.119-126 Drg. No. 16/ 1-2 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE REPORT**

SITE NO.	RCHME NO.	BRIDGE TYPE
BR 17	134	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1947	TL 37676 00931	Fair

**DESCRIPTION and CONDITION**

The footbridge is constructed of steel trusses rivetted together supporting a timber deck. To the west the abutment is concrete, to the east the bridge is set upon a brick pier.

Refer to Roughtons survey report for details of condition and drawings.  
The bridge also supports a number of pipes and cables.

PHOTO NO.	DIMENSIONS
(RCHME) WAP94 CP024 206/K/6 206/S/33 206/S/34	L.- 12.60m W.- 1.30m

**DOCUMENTARY SOURCES**

1993 Roughton Bridge Assessment p.127-136 Drg. No. 17 April 1993  
1993 RCHME Royal Gunpowder Factory Waltham Abbey Report (unpublished)

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 18	508	Culvert Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37476 01783	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>The structure consists of a single vitrified pipe running under Long Walk with brick head walls east and west. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP004	L.- 6.60m W.- 0.45m	
<b>DOCUMENTARY SOURCES</b>		
1993 Roughton <u>Bridge Assessment</u> p.137-140 Drg. No. 18 April 1993		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 19	230	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878? repair ?	TL 37516 01795	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>This bridge displays various phases of construction. It was originally a brick and masonry arch and was subsequently extensively repaired with concrete. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP015	L.- 4.80m W.- 3.15m Ht.- 2.50m	
<b>DOCUMENTARY SOURCES</b>		
1993 Roughton <u>Bridge Assessment</u> p.140-142 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 20	250	Cast Iron Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1914?	TL 37610 02175	Poor(damaged)
<b>DESCRIPTION and CONDITION</b>		
<p>This is a later example of a cast iron aqueduct. The sides of the trough are made up of smaller panels of cast iron which are bolted together, as was the trough base. Most of the base is missing and a number of the side panels are severely damaged. Refer to Roughtons survey report for details of condition and drawings.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) 206/O/24 206/O/25 206/O/29 BB92/26289 WAP94 CP009		L.- 14.00m W.- 3.80m Ht.- 1.30m
<b>DOCUMENTARY SOURCES</b>		
1993 Roughton <u>Bridge Assessment</u> p.143-149 Drg. No. 20 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE REPORT**

SITE NO.	RCHME NO.	BRIDGE TYPE
BR 21	264	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37545 02370	Poor/Fair

**DESCRIPTION and CONDITION**

The bridge is constructed of an angle iron frame forming a semi circular arch with timber steps and deck. The bridge is attached to brick and concrete abutments by means of vertical bolts set into sandstone blocks. A boot scraper is situated on the south west corner of the bridge. The steel frame although corroded appears sound as do the abutments. The main problem as in many cases is with vegetative damage caused by young trees.

PHOTO NO.	DIMENSIONS
(RCHME) WAP94 CP007 206/Q/4	L.- 9.45m W.- 0.97m

**DOCUMENTARY SOURCES**

1993 RCHME Royal Gunpowder Factory Waltham Abbey Report (unpublished)

**WALTHAM ABBEY RARDE SITE BRIDGE REPORT**

SITE NO.	RCHME NO.	BRIDGE TYPE
BR 22	182	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890?	TL 37437 02290	Poor

**DESCRIPTION and CONDITION**

This footbridge is built from angle irons which once supported steps and a timber deck both have long since rotten away. A number of the iron members are severely corroded and extensive damage has been caused by the encroaching trees.

PHOTO NO.	DIMENSIONS
(RCHME) 206/B/33                      WAP93 CP033	L.- 10.95m W.- 1.59m

**DOCUMENTARY SOURCES**

1993 RCHME Royal Gunpowder Factory Waltham Abbey Report (unpublished)

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 23	255	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37507 02235	Fair/Poor
<b>DESCRIPTION and CONDITION</b>		
<p>This bridge is very similar in construction to 21; semi circular arch built of angle irons and timber. The supporting piers are also similar. The timber has all but gone leaving a fairly stable frame.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CPO46 206/O/31 206/O/32		L.- 9.48m W.- 0.97m Ht.- 3.60m(above canal base)
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 24	254	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37585 02200	Fair
<b>DESCRIPTION and CONDITION</b>		
This bridge is similar to 21 and 23 in construction and condition. Less affected by tree damage.		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP039 206/O/30 BB92/26287		L.- 9.48m W.- 0.98m Ht.- 3.60m(above canal base)
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 25	102	Pipebridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37575 01973	Fair/Poor
<b>DESCRIPTION and CONDITION</b>		
<p>This bridge carried an acid pipe, compressed air pipe and a steam main from the acid factory to the new nitroglycerine plant on New Hill over the Cornmill Stream. It is believed that the acid pipe was never used. The bridge is constructed of angle irons forming a single span. Although corroded the main supporting member appear to be sound.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP038 206/I/20 206/N/7		L.- 14.00m W.- 1.80m
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 26	103	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1904?	TL 37602 01884	Fair/Poor
<b>DESCRIPTION and CONDITION</b>		
<p>This Bridge is another example of the semi circular arched footbridges. As with the others the timber decking and steps have decayed but the angle iron frame appears to be intact.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP043 206/I/24 206/T/15 BB92/26170		L.- 9.40m W.- 1.73m Ht.- 2.3m(above Canal Base)
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 27	180	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878	TL 37552 01598	Poor/Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The aqueduct is constructed of brick with brick head walls which have tie-rods running through its length.  The over lying canal has been completely filled in, the lower canal has silted up.  The western head wall is collapsing outward.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP027	L.- 2.80m W.- 12.10m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE REPORT**

SITE NO.	RCHME NO.	BRIDGE TYPE
BR 28	170	Aqueduct

CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1806-27	TL 37442 01640	Good/ Fair

**DESCRIPTION and CONDITION**

This aqueduct is constructed of brick and has earth embankments to carry the main press house canal over a lower drain. Although both waterways are redundant the brick head walls and earth embankments are in reasonable condition. Concrete blocks on the tow path perhaps represent the position of a footbridge.

PHOTO NO.	DIMENSIONS
WAP93 CP008	L.- 6.40m W.- 12.55m Ht.- 2.25m

**DOCUMENTARY SOURCES**

1993 RCHME Royal Gunpowder Factory Waltham Abbey Report (unpublished)

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 29	184	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37654 01449	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>This span is another example of the semicircular bridges. As with the other cases the framework is complete but the timber is either missing or in an advanced stage of decay.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP037 206/C/16	L.- 9.50m W.- 0.96m Ht.- 3.50m(above canal fill)	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 30	123	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1950s /1960s?	TL 37805 01065	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The footbridge is constructed of one large RSJ supported on tall brick piers. Wooden steps on either side access a timber deck which lies on the beam. Two timber hand rails are attached to this deck. Some of the timbers need replacing and perhaps the hand rails but the rest of the structure seems to be stable.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP022 206/E/7		L.- 17.50m W.- 1.70m Ht.- 2.65m
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 31	126	Footbridge/Pipe bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1945	TL 37765 01017	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Bridge constructed of angle irons braced with cross pieces. Most members are rivetted. The metal structure supports a timber deck, now mostly rotten. The steps on either end have been removed and the structure is leaning. It appears to have been a pipe bridge after the removal of the steps.</p>		
<b>PHOTO NO.</b>		<b>DIMENSIONS</b>
(RCHME) WAP93 CP019 206/E/8		L.- 14.00m W.- 1.40m Ht.- 2m
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 32	100	Swing Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37700 00683	Demolished
<b>DESCRIPTION and CONDITION</b>		
<p>Remains of a narrow gauge railway swing bridge. Consist of a triangular concrete pier set in the middle of Millhead Stream. This pier is supported above the water level by three concrete piles. Surrounding this are a number of timber piles of unknown function. On the west bank is an iron pivot set into concrete 2.80m to the west of this stands the concrete mounting point for the bridge.</p> <p>There are three steps to the south up to the level of the railway causeway. The concrete block has a curved face to the east to allow the end of the bridge to swing into place. There is no evidence of the rest of the structure.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP034	Not Available	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 33	120	Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37465 01487	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Rough bridge constructed of unmortared bricks, a precast concrete pipe and railway sleepers. There are two earthwork causeways leading up to the bridge. Overgrown and not very stable.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP010	L.- 7.00m W.- 4.50m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 34	122	Foot/Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878?/1940s?	TL 37800 01095	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The present structure is built of timber and used to carry steam pipes across the canal. Immediately to the north are brick abutments of a former footbridge. Slots incorporated into the the brickwork appear to have allowed a board to be lowered into place to seal the channel. The bricks and style are similar to the 1878 bridges.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP023	L.- N/A W.- 2.50m Ht.- 1.95m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 35	191	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37424 01922	Very Poor
<b>DESCRIPTION and CONDITION</b>		
Only two timber trestles remain of this crossing on the east and west banks of the disused canal.		
PHOTO NO.	DIMENSIONS	
WAP93 CP016	Est. L.- 5.60m W.- 1.40m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 36	202	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s?	TL 37643 02044	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The footbridge consists of an angle iron frame supporting a timber deck. Service pipes were also carried by hoops attached to either side of the bridge.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP042	L.- 8.50m W.- 1.30m Ht.- 2.25m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 37	212	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1895?	TL 37575 02116	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>This bridge is constructed of timber for the most part and is supported by two timber trestles on the north and south banks. The bridge also supported a walkway on the eastern side. Carried wash water from the nitrator E2 to E4.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP041	L.- 13.20m W.- 2.20m Ht.- 2.35m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 38	173	Pipebridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s-1900?	TL 37523 01648	Fair
DESCRIPTION and CONDITION		
Steel framed bridge carrying two steam mains over the canal. appears to be sound with no serious corrosion.		
PHOTO NO.	DIMENSIONS	
WAP93 CP004	L.- 8.05m W.- 0.75m Ht.- 2.40m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 39	174	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s-1890s	TL 37523 01653	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The footbridge is constructed of angle irons which support timber steps and decking similar in design to BR 22 but rising higher above the canal. Most of the timbers are rotten and some of the angle irons are badly corroded.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP003	L.- 9.30m W.- 1.05m Ht.- 2.25m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 40	176	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940-1950s	TL 37498 01667 37500 01652	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>This is actually a large pipe probably carrying steam which has been shaped to cross the canal allowing access for barges underneath. The pipe is supported by two metal cables attached to the centre of the span and to two tall concrete posts set in either bank. The posts are damaged as are the cables the pipe is at present supported by a later timber pile in the center of the span.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP005	L.- 15.80m W.- 0.70m Ht.- 3.15m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 41	177	Lifting Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1940	TL 37501 01661	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Remains of a lifting footbridge constructed of a timber box on the north bank (2.5m by 2.15m) with an iron pivot bar. The bridge spanned the canal (4.25m). On the south bank is a concrete landing with two catch plates. Most of the timber is rotten.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP007	L.- 6.90m W.- 2.55m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 42	223	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s	TL 37586 01264	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Only the two supporting timber trestles survive on either side of the canal. Originally carried the path between the dusting house 159 and the shoe room 157.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP019	L.- 9.00m W.- 1.80m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 43	253	Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940?	TL 37600 021150	Poor
DESCRIPTION and CONDITION		
<p>Two brick piers survive on either site of the Old River Lea, capped by concrete slabs with vertical mounting bolts. The sawn off remains of the bridge supports are in the river. The bridge carried a nitroglycerine gutter and other services from E3 wash house to the mixing house 46a.</p>		
PHOTO NO.	DIMENSIONS	
Not available	Not Available	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 44	505	Pipe/ Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37545 02348	Poor/demolished
DESCRIPTION and CONDITION		
Only one timber trestle survives on the west bank of the canal. Actual function unknown.		
PHOTO NO.	DIMENSIONS	
WAP94 CP006	W,- 2.20m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 45	509	Pipe/ Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37520 02280	Poor/demolished
DESCRIPTION and CONDITION		
Only one timber trestle survives of this bridge.		
PHOTO NO.	DIMENSIONS	
Not available	unknown	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 46	510	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37452 02240	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>The bridge consists of a timber box surrounding the pipe(s). Roofing felt caps the structure over the span. The timber and felt is in reasonable condition.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP017	L.- 8.70m W.- 0.20m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 47	511	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s	TL 37543 021163	Poor(demolished)
<b>DESCRIPTION and CONDITION</b>		
One timber support remains of this bridge which carried the guttering for nitroglycerine from the nitrator E2 to the washing house E3.		
PHOTO NO.	DIMENSIONS	
WAP93 CP040	Not Available	
<b>DOCUMENTARY SOURCES</b>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 48	512	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
c. 1850s	TL 37505 02116	Demolished
DESCRIPTION and CONDITION		
Four truncated timbers survive in the canal bed no bank supports can be seen.		
PHOTO NO.	DIMENSIONS	
No Photographs available	Not Available	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 49	513	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1886	TL 37418 01977	Fair
<b>DESCRIPTION and CONDITION</b>		
Subterranean aqueduct/culvert constructed of brick and concrete. Precise construction unknown.		
PHOTO NO.	DIMENSIONS	
WAP93 CP024	L.- unknown W.- 4.00m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 50	514	Brick Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1850-86	TL 37455 01976	Poor(partially demolished)
<b>DESCRIPTION and CONDITION</b>		
<p>Yellow brick road bridge in English Bond. The spanning structure is missing but the embankment walls and abutments survive in good condition. Grooves can be observed in the brickwork where it is presumed boards could be fitted to dam up sections of the canal.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP044	L.- 3.30m W.- approx 3.00m	
<b>DOCUMENTARY SOURCES</b>		

<b>WALTHAM ABBEY RARDE SITE BRIDGE REPORT</b>		
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<b>SITE NO.</b>	<b>RCHME NO.</b>	<b>BRIDGE TYPE</b>
BR 51	515	Footbridge/pipe Bridge

<b>CONSTRUCTION DATE</b>	<b>GRID REF.</b>	<b>INITIAL CONDITION</b>
1940?	TL 37665 01976	Demolished

<b>DESCRIPTION and CONDITION</b>
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Only two brick piers remain on either side of a disused canal. Built of yellow stocks in Flemish Bond with concrete capping. Steel loop steps are set into the brickwork on both piers. Pipe supports have been bolted on at a later date.

<b>PHOTO NO.</b>	<b>DIMENSIONS</b>
WAP94 CP002	L.- 12.00m W.- 1.40m

<b>DOCUMENTARY SOURCES</b>
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WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 52	516	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37434	Demolished
DESCRIPTION and CONDITION		
Only concrete block abutments survive.		
PHOTO NO.	DIMENSIONS	
Not available	Dims of blocks 0.85m by 0.75m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 53	517	Pipe culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37435 01825	Fair
DESCRIPTION and CONDITION		
Very crude construction, one concrete pipe surrounded by unmortared brickwork. Seems to be in a stable condition.		
PHOTO NO.	DIMENSIONS	
WAP93 CP002	L.- 3.20m W.- 2.90m pipe dia. 0.60m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 54	518	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1940	TL 37497 01660	Fair
DESCRIPTION and CONDITION		
Constructed of an angle iron frame with flat cross pieces. This supports a narrow timber deck together with a large steam pipe to one side.		
PHOTO NO.	DIMENSIONS	
WAP93 CP006	L.- 15.70m W.- 0.80m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 55	519	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37472 01586	Good/Fair
<b>DESCRIPTION and CONDITION</b>		
<p>Constructed of a large concrete pipe encased in concrete. Two side capping pieces either side of the road in which are set hand rails. The banks are retained by concrete sand bags.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP009	L.- 12.30m W.- 3.10m pipe dia 1.10m	
<b>DOCUMENTARY SOURCES</b>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 56	520	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37460 01529	Fair /Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Consists of a pipe clad in a timber box which is capped with roofing felt. Some of the timbers have rotten and portions of the roof felt are missing.</p>		
PHOTO NO.	DIMENSIONS	
Not available	Est. L.- 5.00m W.- 0.40m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 57	521	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37550 01340	Fair(disused)
DESCRIPTION and CONDITION		
<p>This bridge is constructed for at least four pipes. Built of two steel tube stanchions which support a metal pipe held on by "U" bolts. This pipe has four hooks suspended beneath it and has disused pipes attached to either side.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP011	L.- 7.15m W.- 0.85m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 58	522	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37580 01278	Demolished
<b>DESCRIPTION and CONDITION</b>		
Two concrete block abutments are all that remains of this crossing.		
PHOTO NO.	DIMENSIONS	
Not available	dims of blocks 0.95m by 0.85m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 59	523	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
between 1955 and 1965	TL 37627 01162	Good/Fair
<b>DESCRIPTION and CONDITION</b>		
<p>Constructed of six concrete pipes dia. 0.60m laid next to each other across the canal. Head walls are made of concrete. Although the canal has silted up the structure appears to be sound.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP012	L.- 19.80m W.- 7.50m pipe dia 0.60m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 60	524	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1957?	TL 37660 01051	Good/Fair
<b>DESCRIPTION and CONDITION</b>		
Similar in design to BR 59 with six pipes and concrete head walls, the pipe are slightly larger with a 0.90m diameter.		
PHOTO NO.	DIMENSIONS	
WAP93 CP014	L.- 16.00m W.- 6.00m pipe dia 0.90m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 61	525	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37710 00882	Fair
DESCRIPTION and CONDITION		
<p>This structure is basically a timber and roofing felt cover for a pipe crossing the canal at low level. The timber of the box section cover is in fair condition, there are small portions of the felt missing.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP020	L.- 12.50m W.- 0.30m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 62	526	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1945	TL 37725 00858	Fair/Good
<b>DESCRIPTION and CONDITION</b>		
Pipe bridge constructed of an angle iron frame which supports the pipe. Structure appears sound with little corrosion.		
PHOTO NO.	DIMENSIONS	
WAP93 CP018 WAP94 CP038	L.- 12.40m W.- 1.00m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 63	527	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1960s?	TL 37767 01022	Good
DESCRIPTION and CONDITION		
<p>Modern steam carrier constructed of two box shaped steel tube stanchions. Pipe is suspended between, extra welded braces have been added to the pipe at the span.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP021	Dims of stanchions 0.65m by 0.95m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 64	528	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940-50s	TL 37592 00852	Fair
DESCRIPTION and CONDITION		
<p>A steel tube formed arch bridge with a timber deck which originally spanned the Horsemill Stream. It now rests on the eastern bank of the same stream just outside the perimeter fence. The deck may need to be replaced but the frame appears undamaged.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP045	Not Available	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 65	530	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37438 01736	Poor
<b>DESCRIPTION and CONDITION</b>		
Footbridge built of 5 timber joists originally supporting a planked deck (now rotten away) which rests on two brick piers.		
PHOTO NO.	DIMENSIONS	
Not available	L.- 6.00m W.- 3.50m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 66	531	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37705 01490	Fair
DESCRIPTION and CONDITION		
Built of an angle iron supporting frame with a box section, held up by concrete piers. The piers and the frame seem to be in good condition.		
PHOTO NO.	DIMENSIONS	
WAP93 CP026	L.- 15.00m W.- 0.45m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 67	532	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37700 01343	Fair/ Poor
DESCRIPTION and CONDITION		
Two angle iron framed stanchions support a delapidated timber box housing. Carried one pipe and telegraph wires.		
PHOTO NO.	DIMENSIONS	
WAP93 CP025	L.- 6.80m W.- 0.75m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 68	555	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37658 02094	Demolished
<b>DESCRIPTION and CONDITION</b>		
<p>This footbridge appears to be built after the canal had silted up and was constructed of sorted timbers, asbestos sheeting and hard board covered with gravel. There were no bank supports.</p>		
PHOTO NO.	DIMENSIONS	
Not Available	L. - 4.00m W. - 2.20m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 69	556	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1936	TL 37442 02314	Poor
DESCRIPTION and CONDITION		
<p>The bridge consists of three supports carrying large steam and air pipes over the canal in front of the Quinan Stove. Supports are steel angles the pipes are galvanized steel. The complex was recently burnt out as part of the decontamination process.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP001	Approx L. - 11.00m W. - 2.20m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 70	557	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37575 01975	Poor/Fair
<b>DESCRIPTION and CONDITION</b>		
<p>Similar to bridge BR 51 this also carried the Steam, Acid and compressed air services to the New Hill Nitroglycerine Plant. Constructed of Brick piers in Flemish bond with concrete capping and steel loop steps up one side of each. The pipes and gantry are missing.</p>		
PHOTO NO.	DIMENSIONS	
Not Available (refer to BR51)	Unknown	
<b>DOCUMENTARY SOURCES</b>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 01	132	FLAGSTAFF ROAD BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1832	TL 37725 00877	GOOD (IN USE)
DESCRIPTION + CONDITION.		
<p>Cast Iron ribbed bridge with 6 arched ribs set on brick abutments. The deck is concrete with hand rails on either side.</p> <p>Original weight limit 2.5 Tonne axle load reduced to 1.9 ton axle load.</p> <p>Refer to Roughton Survey Report for condition and drawings.</p> <p>The bridge also carries service pipes which are slung along eastern side.</p>		
PHOTO NO.		DIMENSIONS
206/E/22 BB92/26065		Length 7m width 3.9m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessments</u> p.13-20 Drg No 01 May 1993.</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished).</p>		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BL 02.	130	ROAD BRIDGE (BAILEY TYPE)
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
LATE 1960'S EARLY 1970'S	TL 37735 01000	GOOD. (IN USE)
DESCRIPTION + Condition		
<p>Bailey type road bridge with 5 tonne axle load limit.                      Steel structure with a timber deck, together with footbridge on eastern side. Both are set on precast concrete abutments.                      Refer to Roughtons Survey Report for condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
	L. 12.37 m W. 4.11 m HT. 1.55 m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 Roughton <u>Bridge Assessments</u> p 21-29 Drg. No 02 May 1993. 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BL 03	133	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
LATE 1960s EARLY 1970s	TL 37690 00992	GOOD (IN USE)
DESCRIPTION + condition		
<p>modern footbridge constructed of steel R.S.Gs supporting a timber /asphalt deck and two handrails. Bridge set on brick and concrete abutments. The bridge is flanked on either side by a number of service pipes</p> <p>Refer to Roughtons Survey Report for condition and drawings</p>		
PHOTO NO.		DIMENSIONS
206/E/24		L. 6.85m W. 1.64m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughtons <u>Bridge Assessments</u> p 30-36 Drg. No 03 May 1993.</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 04	271	ROAD BRIDGE (BAILEY TYPE)
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
<del>1940?</del> mid 1950s to mid 1960s.	TL 37793 01115	GOOD.
DESCRIPTION		
<p>Bailey type road bridge with 5 tonne axle load limit similar <del>to</del> to bridge 02.</p> <p>Steel structure with a timber deck and a footbridge on North side. The abutments on either side are vertical timber piles</p> <p>Refer to Roughtons Survey Report for condition and drawings</p> <p>Bridge also carries a number of service pipes. The letters MKII. are welded to either end of the bridge.</p>		
PHOTO NO.		DIMENSIONS
206/Q/25		L. 12.37 m W. 5.43 m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessments</u> p 37-44 Drg No 04 May 1993.</p> <p>1965 Drg. No L-B.17 plans and elevations of footbridge 10.9.1965.</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR.05	279	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1957	TL 37735 02156	GOOD (IN USE)
DESCRIPTION		
<p>The bridge <del>was</del> is made of a steel frame with timber planked deck. The bridge is set on concrete abutments and has hand rails on either side.</p> <p>Refer to Roughtons Survey report for condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
		L. 9.85m W. 1.95m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessment</u> # Dry No 05 May 1993</p> <p><del>1957</del> Dry. No L - B.10 plans and elevations 22.7.1957.</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
B.L. 06	269	ROAD BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1955.	TZ 37675 01395	GOOD (IN USE)
DESCRIPTION		
<p>Reinforced concrete bridge. Concrete and asphalt deck set on concrete abutments with rocker bearings between. Hand rail on either side.</p> <p>Refer to Roughtons Survey Report for condition and drawings</p>		
PHOTO NO.		DIMENSIONS
206/Q/20		L. 12.53 m W 4.26 m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessments</u> p.50-57 Dry. No 06. June 1993.</p> <p><del>22</del> Dec 1954 Dry. No L.-B.05 (x D1/2)</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 07	<del>258</del> 507.	FOOT BRIDGE.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1960s?	TZ 37545 01345	GOOD (IN USE)
DESCRIPTION		
<p>The bridge is constructed of thick timber planked deck supported by 2 RST which themselves rest on concrete abutments</p> <p>Refer to Roughtons Survey Report for condition and Drawings.</p> <p>Handrails fitted on either side.</p>		
PHOTO NO.		DIMENSIONS
		L 6.8m W 1.3m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Foot Bridge Assessments</u> P 58 - 64 <del>File</del> Drg. No 07 June 1993.</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR08	228	ROAD BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
?	TL 37680 02106	GOOD (IN USE)
DESCRIPTION		
<p>The bridge is of concrete and steel. The deck is of concrete and asphalt <del>with</del> supported by RSTs which are in turn supported on concrete abutments. Handrails situated on either side of bridge with site perimeter fence attached to the eastern side.</p> <p>Refer to Roughtons Survey Report for condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
	L 7.5m W 3.05m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 Roughtons <u>Bridge Assessments</u> p. 63-71 Drg Nos 08 1/2 April 1995 1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 09	151. 805	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
?	TL 37725 01675	FAIR (IN USE).
DESCRIPTION		
<p>The footbridge is made of timber and steel similar in construction to 07. The timber planked decking is supported by 2 R&amp;T's which rest on concrete abutments. Hand rail present on one side (northern) the perimeter fence is attached to the other Refer to Roughtons Survey report for condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
		L. 11.60m W. 1.6m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessments</u> p 72-77 Dry No 09 April 93</p>		



WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 10	117	BRICK ARCH
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1878/9	TL 37597 01800	GOOD (in use)
DESCRIPTION		
<p>The bridge is a brick arch set on concrete abutments. It is constructed of blue engineers bricks and stocks. The parapets, of brick, have <del>ex</del> <del>plan</del> stone plaques on either side with 'R.G.P.F. VR 1878' inscribed.</p> <p>Refer to Roughlons Survey Report for condition and Drawings.</p> <p>5 tonne axle load limit.</p>		
PHOTO NO.	DIMENSIONS	
206/J/3	L 10.5m W. 3.8m HT 4.4m (parapet to water)	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 Roughlons Drg N° 10/1-2	<u>Bridge Assessments</u> p. 78-84 April 1993.	
1993 RCHME <u>Waltham Abbey</u>	<u>Royal Gunpowder factory</u> report (unpublished).	

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 11	238	ROAD BRIDGE (BAILEY TYPE)
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1971	TL 37715 02041	GOOD (IN USE)
DESCRIPTION		
<p>Bailey type bridge constructed of 5 steel panels which support timber plank deck. The bridge is set of brick and timber abutments.</p> <p>Refer to Roughlon Survey report for condition and Drawings</p> <p>'MK11' in welded letters appears at either end of the bridge.</p>		
PHOTO NO.		DIMENSIONS
		L. 15.41m W 4.13m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughlon <u>Bridge Assessments</u>, p 85-91 Drg. No. 11 May 1993</p> <p>22.8.1971 Drg. No. S - B. 49</p> <p>1993 <u>REHME Bridge As Royal Gunpowder</u> <u>factory Waltham Abbey report (unpublished)</u></p>		

WALTHAM ABBEY PARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 12.	506	STEEL TROUGH ROAD BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1972 (demol. Oct 1993)	TL 37653 02251	DEMOL.
DESCRIPTION		
<p>Refer to Roughtons Survey Report on old bridge. New crossing which will consist of a concrete culvert is yet to be erected.</p>		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessment</u> sp91-98                      Dwg No S.-B.53.                      30.11.1971 Dwg. No. S.-B.53 plans and                      elevations.</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 13	106	Aqueduct
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1940	TL 37546 01935	Good.
DESCRIPTION		
<p>Concrete Aqueduct constructed of 5 concrete pipes overlain with cast concrete. At present no canal runs over the structure although the embankments and tow path still exists.</p> <p>Refer to Roughtons Survey Report for condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
206/H/35 206/T/11		L 10.97m W 15.55m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughton <u>Bridge Assessment</u> p 98-105                      Dry No 13 1/2</p> <p>1993 RCHME <u>Royal Gunpowder Factory</u>  <u>Waltham Abbey</u>. report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BB 14.	112	Cast Iron. Aqueduct
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1878/9	TZ 37565 01800	Good (disused).
DESCRIPTION		
<p>The aqueduct is constructed of cast iron each side piece is <del>on</del> a single cast. The trough base is <del>is</del> of iron plates bolted to the side sections. The aqueduct sits on brick abutments. A timber walkway existed on either side.</p> <p>Refer to Roughton Survey report for condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
206/D/17, 206/D/18 206/H/23, BB92/26105 BB92/26168, BB92/26169 BB92/26491		L 9.32m W 3.25m Dp. 1.3m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 Roughton <u>Bridges Assessment</u> p. 105-111 Drg No 14 April 1993. 1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 15.	214	CAST IRON AQUEDUCT/ BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1878/9 1914? (Bridge)	TL 37584 02131	GOOD. (disused)
DESCRIPTION		
<p>Originally a cast iron aqueduct very similar to 14, later was adapted to a foot bridge. The structure was also used to suspend a pipe across the Old River here.</p> <p>Refer to Boughtons Survey Record for details of condition and construction.</p>		
PHOTO NO.		DIMENSIONS
		L 9.8m W 3.1m D. 1.45m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1903	WASC 901/198 (corrected to N°2)	27.5.03 Aqueduct N°5
1903	WASC 901/199	3.6.03 Aqueduct N°5
1993	Roughton 15 April 1993	<u>Bridge Assessment</u> p111-118 Drg N°.
1993	RCHME <u>Waltham Abbey</u>	<u>Waltham Ab Royal Gunpowder</u> Factory report (unpublish)

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 16	113	BRICK ARCH BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1878/9	TL 37548 01761	GOOD. (IN USE)
DESCRIPTION		
<p>A brick arch bridge similar in construction to 10 i.e. Blue engineers bricks and stocks                      Refer to Roughtons Survey Report for details of condition and construction.</p> <p>Stone plaque incised 'RCHME VR 1878'</p>		
PHOTO NO.		DIMENSIONS
206/H/24 206/Q/26 BB92/26104 BB92/26459		L. 7.3m W 3.4m HT 4.75m (parapet to canal base.)
DOCUMENTARY SOURCES (DRAWINGS ETC...)		
1993 Roughton <u>Bridge Assessments</u> p 119-126 Drg No 16/1-2 May 1993 1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 17	134	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
?	TL 37676 00931	FAIR. (disused)
DESCRIPTION		
<p>The footbridge is constructed of steel trusses rivetted together which supports a timber deck To the west the abutment is concrete, to the east the bridge is set <del>of</del> on a brick pier.</p> <p>Refer to Roughton's Survey Report for construction and condition details.</p> <p>The bridge also supports a number of pipes and cables.</p>		
PHOTO NO.		DIMENSIONS
206/K/6 206/S/33 206/S/34		L. 12.6 m W. 1.3 m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 - 136	Roughton Dry No 17	<u>Bridge Assessment</u> p127 April 93
1993	RCHME <u>Waltham Abbey</u>	<u>Royal Gunpowder Factory</u> report (unpublished)



WALTHAM ABBEY PARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 18.	508	CULVERT BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
?	TL 37476 01783	POOR (in use).
DESCRIPTION		
<p>Structure consists of single vitrified pipe running under Honey Walk with brick headwalls east and west.</p> <p>Refer to Roughlans Survey report for details and drawings.</p>		
PHOTO NO.		DIMENSIONS
		L 6.6m W 0.45m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 Roughlans <u>Bridge Assessments</u> p137-140                  Drg No. 18 April 1993.</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 19.	230	ROAD BRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
?	TZ 37516 01 795	POOR (disused)
DESCRIPTION		
<p>Various phases of construction can be seen. Probably a brick/masonry arch originally which was extensively damaged and was subsequently repaired with concrete.</p> <p>Refer to Roughtons Survey report for condition details.</p>		
PHOTO NO.		DIMENSIONS
		L 4.8m W 3.1m HF 2.5m.
DOCUMENTARY SOURCES (DRAWINGS ETC...)		
<p>1993 Roughtons <u>Bridge Assessment</u> p.140-142 <del>Fig.</del></p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
Bh.20.	250	CAST IRON AQUEDUCT.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
? 1914	TL 37610 02175	FAIR (damaged/disused)
DESCRIPTION		
<p>A later cast iron aqueduct. The side panels made up of smaller cast pieces bolted together as was the trough deck. The deck is missing and a number of the side panels are severely damaged.</p> <p>Refer to Roughtons Survey Report for details of condition.</p>		
PHOTO NO.		DIMENSIONS
206/0/24		L 14m
206/0/25		W 3.8m
206/0/29		HT 1.31m
BB92/26289		
DOCUMENTARY SOURCES (DRAWINGS ETC...)		
<p>1993 Roughton <u>Bridge Assessment</u> p 143-149                  Dry No 20 May 1993</p> <p>1993 KCHME <u>Royal Gunpowder Factory                  Waltham Abbey</u> report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 21	264	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37545 02370	POOR./fair
DESCRIPTION		
Similar in construction to BR 24. Timber deck rotten.		
PHOTO NO.	DIMENSIONS	
206/Q/4	L. 9.45m W 0.97m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 22	182	Footbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1890?	TL 37437 02290	Poor
DESCRIPTION		
<p>Footbridge constructed from angle irons with timber steps and deck (now rotten). A number of the iron sections are severely corroded also <del>extensi</del> extensive damage caused by encroaching trees.</p>		
PHOTO NO.		DIMENSIONS
206/B/33		L 10.95m W 1.59m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)</p>		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 23	255	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37782 02035 37870 01814	
DESCRIPTION		
Same as BR 24		
PHOTO NO.		DIMENSIONS
206/0/31 206/0/32		As BR 24
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 24	254	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
189?	TL 37585 02200	FAIR
DESCRIPTION		
<p>The bridge is attached to brick and concrete abutments by vertical bolts set into sandstone blocks. Semi circular in shape formed with T irons as is the handrail. The deck is timber. A boot scraper is situated on the south west corner of the bridge.</p>		
PHOTO NO.		DIMENSIONS
206/0/30 BB92/26287		L 9.48m W 0.97m HT 3.8m (above canal base)
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> report (unpublished)</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 25	102	PIPEBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1940	TZ 37575 01973	POOR
DESCRIPTION		
<p>The bridge carried an acid pipe, compressed air pipe and steam pipe from the acid factory to the new nitroglycerine hill. Believed that the acid pipe was never used. Bridge constructed of angle irons in a single span.</p>		
PHOTO NO.		DIMENSIONS
<p>206/1/20 206/N/7</p>		
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished).</p>		



WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 26	103	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1904?	TZ 37602 08884	POOR.
DESCRIPTION		
<p>The bridge is constructed of Angle IRONS with timber steps and deck. The bridge also carried pipes over the canal.</p>		
PHOTO NO.		DIMENSIONS
206/1/24 206/T/15. BR92/26170		L 9.4m W 1.73m HT 2.3m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME Royal Gunpowder factory Waltham Abbey report (unpublished)		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
R27	180	Aqueduct.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1878	Tl. 37552 01598.	Fair.
DESCRIPTION		
<p>The aqueduct is made of brick with brick facing walls on its west and eastern sides. These have tie rods running through.</p>		
PHOTO NO.		DIMENSIONS
		L. (N to S) 2.8m W. 12.1m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory, Waltham Abbey</u> report (unpublished).		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 28	170	Aqueduct.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1806-27?	TL 37442 01640	GOOD.
DESCRIPTION		
<p>The aqueduct is made of brick and carries a canal over a low level leat to press house 103. Concrete bases on the tow path perhaps represent remains of a footbridge.</p>		
PHOTO NO.		DIMENSIONS
		L. 6.4m W 12.5m HT 2.25m+
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 29	184.	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37654 01449.	FAIR.
DESCRIPTION		
<p>Similar construction to other semicircular bridges on site wood deck, angle iron + cross pieces mounted on yark stone + brick abutments.</p>		
PHOTO NO.		DIMENSIONS
206/C/16.		L W
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)</p>		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 30	123.	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
196?	TL 37805. 01065	FAIR.
DESCRIPTION		
<p>The footbridge is constructed of a <del>an</del> RBT supported on brick piers. On this beam sits a timber deck with handrails. There are wooden steps at either end.</p>		
PHOTO NO.	DIMENSIONS	
206/E/7	L. W 1.7m HT 2.65m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME Royal Gunpowder factory Waltham Abbey. report (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
B231	126	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL37765 01017	GOOD
DESCRIPTION		
Footbridge north of Power House Ar210.		
PHOTO NO.	DIMENSIONS	
206/E/8	W 1.4m HT 2m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished).		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 32	100	Swingbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
		Partially Demolished.
DESCRIPTION		
<p>Remains of a railway (narrow gauge) swingbridge consist of triangular concrete pier set in middle of Hillhead stream. supported on 3 concrete piles. No. of timbers of unknown function or association also stand in the stream. on the west bank. is an iron pivot set in concrete <math>\approx 3m</math> to west of this is the concrete mounting point. has 3 steps to south. The concrete has a curved face to the east obviously allowing the bridge to swing into place. Deck + Superstructure missing. Crosses stream at angle <del>NE</del> WNW ESE.</p>		
PHOTO NO.	DIMENSIONS	
	N/A.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
B33	120.	Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37465 01487	Poor.
DESCRIPTION		
<p>Rough bridge constructed of unmortared bricks, a precast concrete pipe and railway sleepers. There are two earthwork causeways on either side.</p>		
PHOTO NO.		DIMENSIONS
		L. 7m W. 4.5m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1943 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
Bn 34	122.	Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37800 01095	Fair.
DESCRIPTION		
<p>The present structure is constructed of timber and used to carry <del>pipes</del> steam pipes. Immediately to the north of this <del>river</del> are brick abutments of a former footbridge. Slots incorporated into the brick work appear to allow a board to be slid into place to seal the channel. The brick are similar to those used in 1878 bridges.</p>		
PHOTO NO.	DIMENSIONS	
	L. W. 2.8m HT 1.95m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
Bl 35	191	FOOTBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TK 37424 01922.	VERY POOR
DESCRIPTION		
<p>All that remains of the footbridge are two timber trestles which survive on the east and west side of the leat.</p>		
PHOTO NO.		DIMENSIONS
		L. 5.6m W. 1.4m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME Royal Gunpowder Factory Waltham Abbey Fire report (unpublished).</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR36	202.	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
189?	TL 37643 02044	FAIR
DESCRIPTION		
<p>The footbridge is built off an angle iron frame supporting a timber deck. The bridge was also used to carry service pipes over, suspended on hoops on either side of the bridge.</p>		
PHOTO NO.	DIMENSIONS	
	L. 8.5m W. 1.8m HT 2.25m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpublished).		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 37	212.	Pipe Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37575 02116.	Poor.
DESCRIPTION		
<p>This bridge is constructed of timber for the most part supported on timber trestles on the north and south bank. The bridge also supported a walkway on the eastern side.</p>		
PHOTO NO.		DIMENSIONS
		L. 13.2m W. 2.2m HT. 2.35m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RARDE <u>Royal Gunpowderfactory</u> <u>Waltham Abbey</u> report (unpub.)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 38	173.	PIPEBRIDGE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37517 01644 37530 01649	FAIR.
DESCRIPTION		
Steel framed pipe bridge carrying two steam mains over a canal.		
PHOTO NO.		DIMENSIONS
		L. 8.05m W. 0.75m HT 2.4m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RIBBING <u>Royal Gunpowder Factory</u> <u>Waltham Abbey.</u> report (unpub)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
RL39	174.	Footbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37523 01653	FAIR.
DESCRIPTION		
Footbridge is constructed of angle irons supporting a timber deck.		
PHOTO NO.	DIMENSIONS	
	L. 9.3m W. 1.03m H. 2.25m above ground.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder factory</u> <u>Waltham Abbey</u> report (unpub)		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 40	176	Pipe bridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37498 01667 37500 01652.	FAIR.
DESCRIPTION		
<p>Consists of a large service pipe slayed to bridge canal. has 2 concrete posts at either end, cable attached to these holds a central metal structure in place.</p>		
PHOTO NO.	DIMENSIONS	
	L. 15.8m W. 0.7m HT (pier) 3.15m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report unpublished.		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
B041	177.	Lifting Footbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	T2 37801 01661.	Poor
DESCRIPTION		
<p>Remains of a lifting footbridge. Constructed of a timber box on North bank (2.5m x 2.15m) with an iron pivot bar. The bridge spanned the canal (4.25m) on the south bank is a concrete landing with 2 catch plates. Timber decking rotten.</p>		
PHOTO NO.		DIMENSIONS
		L. 6.9m W. 2.5m.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpub)</p>		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BL 42	223	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	T237586 01264	Poor
DESCRIPTION		
<p>Only the two supporting timber trestles survive on either side of the canal. Originally carried the path between the dishing Hous 159 to the shoeroom 187.</p>		
PHOTO NO.	DIMENSIONS	
	L. 9m W. 1.8m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p>1993 RCHME <u>Royal Gunpowder Factory</u> <u>Waltham Abbey</u> report (unpub)</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 43	253.	Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
1940?	TL 37608 02180	Poor.
DESCRIPTION		
<p>Two brick piers remain on either side of the Old River Lea, capped by concrete slabs with vertical mounting bolts. The sawn off remains of the bridge supports are in the river. The bridge carried a Nitroglycerine gutter and other services from E3 wash house to the mixing house 46a.</p>		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		
<p><del>Also</del> 1993 RCHME <u>Royal Gunpowder</u> <u>factory Waltham Abbey</u> report (unpub)</p>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 44	505	Pipe / footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37545. 02348 .	Poor.
DESCRIPTION		
Only thing that remains is one timber tressel.		
PHOTO NO.	DIMENSIONS	
	W. 2.2m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR45	509	Pipe/foot
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37520 02280.	Poor Demol.
DESCRIPTION		
Only one wooden tressel remains of this structure opposite . . . .		
PHOTO NO.	DIMENSIONS	
N/A	N/A	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 46	510	Pipe Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37452 02240	Fair
DESCRIPTION		
Box construction wood + felt capping raises pipe above canal.		
PHOTO NO.		DIMENSIONS
		L. 8.70m W. 2.0m
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
R47	511	Pipebridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	T 37543 02163.	Poor (demolished)
DESCRIPTION		
Only one timber support remains of this bridge which carried guttering for N& from Nubraton to washing house		
PHOTO NO.	DIMENSIONS	
	Unknown	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

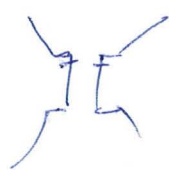
SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 48	512	Footbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TZ 37805. 02116	Demol.
DESCRIPTION		
Only unclamped timbers in canal bed survive and one pier.		
PHOTO NO.	DIMENSIONS	
	Unknown.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 49	513.	Aqueduct
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37418 01977	Fair
DESCRIPTION		
Subterranean aqueduct/culvert made of brick + concrete precise construction unknown only top visible		
PHOTO NO.	DIMENSIONS	
	W. 4.00m L unknown	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
SR 50	514.	Brick Roadbridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TZ 37455 01976	Poor (partially demolished).
DESCRIPTION		
<p>Yellow brick road bridge in English bond.                      Only one end visible brick piers + retirement walls.                      Has grooves on western end possible to allow board to be lowered to dam up canal</p> 		
PHOTO NO.	DIMENSIONS	
	L. 3.30m W unknown	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 51	S15.	Bolt bridge later pipe bridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37685 01976.	Derol
DESCRIPTION		
Only brick piers survive. Yellow brick. English bond. Concrete capping. Metal looped steps up one side. Has pipe structure bolted on. No crossing structure remains.		
PHOTO NO.	DIMENSIONS	
	W. 1.4m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
R52	516	Pipe Bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TC 37434 01833.	Demol.
DESCRIPTION		
Only concrete supports remain of pipe bridge		
PHOTO NO.	DIMENSIONS	
	Dims of concrete supports ·85m x ·75m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 53	517	Pipe Culvert
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37435. 01825	fair
DESCRIPTION		
Crude construction. concrete pipe (1) surrounded by unmassed brick.		
PHOTO NO.	DIMENSIONS	
	L. 3.20m W 2.9m. pipe dim - 60m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BL54	518	Pipe bridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37497 01660	Fair.
DESCRIPTION		
Angle iron construction. with flat rod cross pieces. supporting narrow wooden deck. Supports large pipe on one side.		
PHOTO NO.	DIMENSIONS	
	L 15.70m W. 0.80m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
Bl 55	519	Pipe culvert
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TK 37472 01586	Good/fair.
DESCRIPTION		
Constructed of large bore concrete pipe encased in concrete. 2 side capping pieces either side of bed. holding hand rails. banks retained near entrance by concrete sand bags.		
PHOTO NO.	DIMENSIONS	
	L. 12.30 m W 3.10 m pipe dia. 1.70 m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 56	520.	Pipebridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	T 37460. 01529.	Fair / poor
DESCRIPTION		
low wood + roof felt <del>etc</del> box construction. pipe bridge		
PHOTO NO.	DIMENSIONS	
	L. $\approx$ 5.0m W. .40 x .40	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY PARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 57	521.	Pipe bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37550. 01340	Fair. (disused)
DESCRIPTION		
<p>Constructed for at least 4 pipes. 2 concrete <del>standards</del> blocks hold 2 pm metal pipe in shaped standards which in turn supports a metal pipe held on by 4 bolts. The pipe has 4 hooks suspended below it and has disused pipes attached either side</p>		
PHOTO NO.	DIMENSIONS	
	L. $\approx$ 7.1m W. $\approx$ 8.5m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BQ 58	522	Pipe bridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TZ 37580 01278	Demolished
DESCRIPTION		
Only the two concrete block piers remain. no super structure.		
PHOTO NO.	DIMENSIONS	
	of concrete blocks L. .95m W. .85m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BL 59	523	Pipe culvert
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TN 37627. 01052	Good/fair
DESCRIPTION		
Similar construction to BL 60 6 pipes diam. 80cm Set in concrete with concrete capping at each end. Stream clogged. fair condition.		
PHOTO NO.	DIMENSIONS	
	L. 19.80m W. 7.50m pipe dia 80cm	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
R/60	S24	Pipe culvert.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37660 01051	Good/fair.
DESCRIPTION		
Constructed of 6 concrete pipes dia. 90cm laid next to each other with concrete capping on either end. Stream barely moving. clogged up. good condition of visible pipes.		
PHOTO NO.	DIMENSIONS	
	L. 16m W 6m pipe dia 90cm	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR61	525	Pipebridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TC 37710 00882	Fair.
DESCRIPTION		
30k section wooden bridge with felt low over bridge		
PHOTO NO.	DIMENSIONS	
	w. = 30m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
B462	526.	Pipe bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TZ 37725 00858	Fair/good.
DESCRIPTION		
Angled iron frame bridge over canal. Also has electricity box mounted on one side.		
PHOTO NO.	DIMENSIONS	
	L. ? W. 1m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 63	527	Pipebridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37767 01022	Good.
DESCRIPTION		
<p>Modern steam carrier constructed of two tall box construct metal tubed stanchions. Pipe suspended between, reinforced by additional welded members.</p>		
PHOTO NO.	DIMENSIONS	
	stanchions. W .65 x m .95m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY PARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR64	528	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37592 00882	fair.
DESCRIPTION		
Metal tube framed bridge slight arch. timber deck orig. crossed. Horsehill Stream now sitting on side of 2ba (East) of stream.		
PHOTO NO.		DIMENSIONS
		L. W.
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY PARADE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
R65	530	Footbridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	TL 37438. 01736	Poor
DESCRIPTION		
Footbridge constructed S timber posts supp. plank deck resting on bridge piers over drain.		
PHOTO NO.	DIMENSIONS	
	L W.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 66	531	Pipe bridge.
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	37705. 01490	Fair
DESCRIPTION		
Box section, made of angle iron, containing a pipe supported on <del>a</del> concrete piers.		
PHOTO NO.	DIMENSIONS	
	L. W. .35m	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

WALTHAM ABBEY RARDE SITE BRIDGE RECORD

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR. 67	532.	Pipebridge
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
	37700 01343.	Fair / poor.
DESCRIPTION		
last section wooden bridge supported by 2 angle iron frame stanchions. carries one pipe + telegraph wires.		
PHOTO NO.	DIMENSIONS	
	L. W. 75m.	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
BR 68.	580	
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.		DIMENSIONS
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.		DIMENSIONS
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		



**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

<b>SITE NO.</b>	<b>R.C.H.M.E. NO.</b>	<b>BRIDGE TYPE</b>
<b>CONSTRUCTION DATE</b>	<b>N.G.R.</b>	<b>INITIAL CONDITION</b>
<b>DESCRIPTION</b>		
<b>PHOTO NO.</b>	<b>DIMENSIONS</b>	
<b>DOCUMENTARY SOURCES ( DRAWINGS ETC... )</b>		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

SITE NO.	R.C.H.M.E. NO.	BRIDGE TYPE
CONSTRUCTION DATE	N.G.R.	INITIAL CONDITION
DESCRIPTION		
PHOTO NO.	DIMENSIONS	
DOCUMENTARY SOURCES ( DRAWINGS ETC... )		

**WALTHAM ABBEY RARDE SITE BRIDGE RECORD**

<b>SITE NO.</b>	<b>R.C.H.M.E. NO.</b>	<b>BRIDGE TYPE</b>
<b>CONSTRUCTION DATE</b>	<b>N.G.R.</b>	<b>INITIAL CONDITION</b>
<b>DESCRIPTION</b>		
<b>PHOTO NO.</b>	<b>DIMENSIONS</b>	
<b>DOCUMENTARY SOURCES ( DRAWINGS ETC... )</b>		