

M205 Additions to the Eglinton Foundry

Introduction

Honeyman, Keppie & Mackintosh designed several additions to this foundry, which specialised in the manufacture of cast-iron pipes for water and gas mains. Their work included a new Machine Shop, Blower House and Foundry Pit.

Authorship: There is no conclusive evidence that Mackintosh was involved in the design of the Machine Shop. However, the unusual design of the gable has echoes elsewhere in his architecture. Corroboratory evidence is provided by Ronald Harrison, an early student of Mackintosh's architecture in the 1930s, who had access to the office records. He made a tracing of an original drawing for the machine shop which he evidently believed to be by Mackintosh. ¹

Alternative addresses: Canal Street Stromness Street Crawford Street Port Eglinton

Cost from job book: 1902–3 work, including Machine Shop: £3444 1s 8d; raising foundry roof: £461 7s 3½d; New Blower House: £1333 13s 1d; New Foundry Pit: £3100 10s 8d

Status: Partly demolished

Current name: M. Suleman & Co.

Current use: Cash and carry warehouse (2014)

RCAHMS Site Number: NS56SE 1212 (96 Kilbirnie Street)

Grid reference: NS 5829 6387 (96 Kilbirnie Street)

Chronology

1902

24 April: Plans for Machine Shop on N. side of Crawford Street passed by Glasgow Dean of Guild Court. ¹

19 November: Slating of Machine Shop roof in progress. ²

1903

20 January: Tenders accepted for new Blower House. ³

30 January: Tender accepted for raising foundry roof. ⁴

5 February: Machine Shop finished except for floor. ⁵

July: Contractors paid for raising foundry roof. ⁶

30 July: Plans for 'new offices' passed by Glasgow Dean of Guild Court. ⁷

6 December: New offices 'nearly finished'. ⁸

1904

September: Tenders for New Foundry Pit accepted. ⁹

1905

14 April: Final payments for New Blower House. ¹⁰

26 December: Final payments for New Foundry Pit. ¹¹

Description

According to sales particulars published in 1854, the Eglinton Foundry had been established within the previous three years and was specially equipped for the manufacture of cast-iron pipes.¹ By 1857, it had been taken over by Robert Maclaren & Co., formerly of the Globe Foundry, Washington Street.² Under Maclaren's it grew into one of the largest pipe-manufacturing operations in Glasgow, and by 1888 it was said to employ between 600 and 800 men. By 1901, it was producing 30,000 tons of water and gas pipes annually, with a major export trade.³

Various buildings were spread across the seven-acre site: pig iron was kept molten in a number of 'cupolas', or furnaces; casting took place in 'pits' (the word seems to have denoted not just the excavated hollow where the molten metal was poured, but also the surrounding walls and roof); and sheds and other structures were used for machining, testing and storing the finished pipes.⁴ Situated in the industrial district of Tradeston, the foundry was surrounded by railway lines, which facilitated the delivery of raw materials and the distribution of finished goods.

Honeyman, Keppie & Mackintosh were responsible for several additions between 1902 and 1905, but due to later demolition and redevelopment, and a lack of drawings, it is difficult to know what these buildings looked like and where on the site they were located. The architects' job books record that their first, unspecified addition was built and paid for between 1902 and 1903. Then, between 1903 and 1904, they raised the foundry roof and designed a new Blower House (electric blowers were used to maintain the temperature of the cupolas). Finally, in 1904–5, they added a new Foundry Pit. It seems not all these works needed the approval of the Glasgow Dean of Guild Court. Only two petitions were submitted to the Court. The first, granted on 24 April 1902, was for a three-storey building on the N. side of Crawford Street (now renamed Kilbirnie Street), 336,000 cubic feet (9514.5 cubic m) in size. The second, granted on 30 July 1903, was for a four-storey building of 53,055 cubic feet (1502.35 cubic m).⁵ The Court's record of inspections made while the second building was under construction describes it as 'new offices'.⁶

The drawings submitted to the Court are missing (2011), and the only surviving drawing relating to Honeyman Keppie & Mackintosh's additions is a tracing made in the 1930s by Ronald Harrison from a sheet dated April 1902.⁷ Its style is consistent with its being based on an original drawing by Mackintosh. It identifies the first phase of the firm's work as a Machine Shop. A three-storey block attached to its W. end may have been intended for offices.

The three-storey block has been demolished, except for part of the wall facing the street, but photographs taken in the 1980s record its appearance. It was of brick with a roughcast finish. Unlike The Hill House, the roughcast was not carried over the tops of the gables and parapets. Instead, the wall head was protected by a simple stone coping.



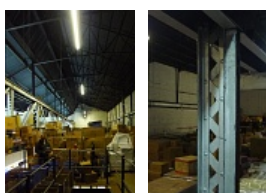
The Machine Shop appears to be the only one of Honeyman Keppie & Mackintosh's buildings to survive. Although altered both externally and internally, it is immediately recognisable from Harrison's drawing. It is a lofty brick-built shed, 140 feet (42.7 m) long and 45 feet (13.7 m) wide, where sections of pipe were machined to achieve an air-tight or water-tight fit.



The interior was illustrated in an account of the foundry published c. 1910, in which its state-of-the-art equipment was also described: 'the lathes, drills, boring, milling, cutting machines and other tools of precision are the very latest word in engineering science materialised and installed, whilst overhead are electric-power cranes which lift and transport huge weights with the ease of a Titan'.⁸



The Shop consists of a main hall with a narrower aisle along the N. side. The hall, now horizontally subdivided, was originally a single space, the same height as the adjoining three-storey office block. The aisle is lower, and divided into two floors. The asymmetry is reflected in the roof, the N. slope of which is more steeply pitched towards the ridge, shallower towards the eaves. This slope was originally largely glazed, and the different pitches were presumably designed to light the main hall and the upper floor of the aisle in different ways. The lightweight steel roof trusses are supported on steel-lattice stanchions, which originally also carried hoisting equipment.



The asymmetrical roof gives the cliff-like E. gable an unusual silhouette. Its strangeness brings Mackintosh to mind, as does the attention to detail in the way the coping snakes over the rounded apex and softens the change of pitch on the N. slope into a slight curve. However, although Mackintosh used asymmetrical gables in a number of buildings, including the original designs for the Glasgow School of Art, there is no exact parallel for the Machine Shop gable elsewhere in his work.



The N. elevation facing the yard was originally clad in corrugated iron, with large, gridded windows (an industrial equivalent of the N.-facing studio windows at the Glasgow School of Art). A later building now abuts this side.

No trace survives of Honeyman Keppie & Mackintosh's Blower House or Foundry Pit, but photographs suggest they were probably utilitarian.



People

Clients:

- Robert McLaren & Co.

Contractors:

- Robert Aitken
- Babbie & Bonn
- Bell, Hornsby & Co.
- Donald Clerk & Sons
- Robert Corbet & Son
- M. Campbell Duff & Sons
- James Grant
- James Ingleton & Co.
- A. & D. MacKay
- John McOwat & Son
- N. Ramsey & Sons
- Redpath, Brown & Co.
- George Rome & Co.

Job Book

The job books of Honeyman & Keppie (later Honeyman, Keppie & Mackintosh) are now held by The Hunterian, University of Glasgow and include four volumes related to the Mackintosh period. The books were used by the firm to keep a project-by-project, day-by-day record of contractors, suppliers and expenditure. The name of a project and/or client is usually at the top of the left-hand page, followed by information about tradesmen who tendered. The name of the measurer (quantity surveyor) is usually at the top of the right-hand page, followed by information about payments to contractors and suppliers. All of the data for M205 is entered in the tables below.

Page numbering is not consistent in the job books. Sometimes a single number refers to a double-page spread and sometimes each page is individually numbered. Here, each image of a double-page spread is identified by the number given at the top of the left-hand page. (Images of all of the pages from the four job books can be found at [Browse Job Books](#), [Visit Book and Cash Book](#).)

The following information about M205 has been extracted from the job books:



Job book: 53062
Page: 2



Job book: 53062
Page: 3

Client: Robert McLaren & Co.

Measurer: M. Campbell Duff & Sons

Tenders:

Contractor	Type	Address	Date	Value	Accepted
Robert Corbet & Son	brick work	23 Onslow Drive	1902	£1538 0s 0d	no
Robert Gilchrist & Son	brick work	50 New Street, Calton	1902	£1502 0s 0d	no
John Paterson & Son Ltd	brick work	610 Pollokshaws Road	1902	£1558 10s 0d	no
James Goldie & Son	brick work	52 St Enoch's Square	1902	£1479 0s 0d	no
Bell, Hornsby & Co.	brick work	176 Pollokshaws Road	1902	£1207 0s 0d	yes (23 May 1902)
Forrest & MacLeod	brick work	12 Dixon Street	1902	£1425 0s 0d	no
E. & J. Birrell	brick work	no data in job book	1902	£1308 15s 7d ¹	no
James Grant	joiner work	Pitt Street	1902	£673 5s 5d	yes (23 May 1902)
Matthew Henderson	joiner work	4 Grant Street	1902	no data in job book	no
George Laird & Son	joiner work	10 Ann Street, Bridgeton	1902	£598 15s 0d	no
William Shaw & Son	joiner work	94 Commerce Street	1902	£613 0s 0d	no
James Maben & Co.	joiner work	65 Eglinton Street	1902	£709 0s 0d	no
A. & D. Mackay	slater work	35 Oswald Street	1902	£103 0s 0d	no
John McOwat & Son	slater work	98 London Street	1902	£92 0s 0d	yes (20 May 1902)
A. M. Ross & Son	slater work	10 Ann Street	1902	£101 12s 0d	no
John Anderson	slater work	Parliamentary Road	1902	£99 3s 6d	no
J. & A. Stewart	slater work	10 Wallace Street	1902	£111 9s 0d	no
Arrol Bridge & Roof Co. Ltd	steel work	Germiston Works	1902	£1383 17s 7d	no
P. & R. Fleming	steel work	Argyle Street	1902	no data in job book	no
Bladen & Co.	steel work	212 St Vincent Street	1902	£1175 19s 1d	no
Alex Findlay & Co.	steel work	Motherwell	1902	£1607 18s 0d	no
Somervail & Co.	steel work	Dalmuir	1902	no data in job book ²	no
P. & W. Maclellan Ltd	steel work	Argyle Street	1902	£1471 6s 6d	no
Donald Clerk & Sons	steel work	92 Wellington Street	1902	£1039 8s 10d	yes (23 May 1902)
Rudolph A. Stoffart	steel work	Bath Street	1902	no data in job book	no
Motherwell Bridge Co. Ltd	steel work	Motherwell	1902	£1270 5s 9d ³	no
A. & J. Mair & Co. Ltd	steel work	Possilpark	1902	£1260 0s 0d	no
James Ingleton & Co.	plumber work	George Street	1902	£180 0s 0d	yes (20 May 1902)
Fyfe & Allan	plumber work	St George's Road	1902	£180 0s 0d	no
William Anderson	plumber work	Buchanan Street	1902	£197 0s 0d	no
James Johnstone & Son	plumber work	Renfield Street	1902	£190 0s 0d	no
Brown & Young	plumber work	Bath Street	1902	£196 7s 5d	no

Payments (trades):

Name	Type	Payment out sum
Bell, Hornsby & Co.	brick work	First installment: 13 August 1902 Final installment: 16 April 1903 £1479 1s 1d ⁴
James Grant	joiner work	First installment: 19 November 1902 Final installment: 16 April 1903 £633 14s 11½d
John McOwat & Son	slater work	First installment: 17 December 1902 Final installment: 16 April 1903 £84 18s 9½d

Donald Clerk & Sons	steel work	First installment: 29 October 1902 Final installment: 19 January 1903 £1040 5s 5d
James Ingleton & Co.	plumber work	First installment: November 1902 Final installment: 16 April 1903 £145 16s 5d

Measurer fee payment: £60 5s 0d (8 May 1903)

Phase 2: 'Raising of roof on Foundry', 1903



Job book: 53062
Page: 3

Client: Robert McLaren & Co.

Tenders:

Contractor	Type	Date	Value	Accepted
Donald Clerk & Sons	iron work	1903	£52 10s 0d ⁵	yes (30 January 1903)

Payments (trades):

Name	Type	Payment out sum
Donald Clerk & Sons	iron work	Payment date: 16 July 1903 £73 3s 10d

Payments (suppliers):

Name	Service	Payment date	Payment sum
Robert Corbet & Son	'brick & mason work'	8 July 1903	£166 1s 6d
James Grant	'joiner & slater work'	8 July 1903	£179 6s 5½d
James Ingleton & Co.	no data in job book	8 July 1903	£29 0s 0d
Bell, Hornsby & Co.	'boring holes etc.'	10 July 1903	£5 15s 6d
Robert Aitken	'inspector'	no data in job book	£8 0s 0d

Phase 3: New Blower House, 1903–5



Job book: 53062
Page: 26



Job book: 53062
Page: 27

Client: Robert McLaren & Co.

Measurer: N. Ramsey & Sons

Tenders:

Contractor	Type	Address	Date	Value	Accepted

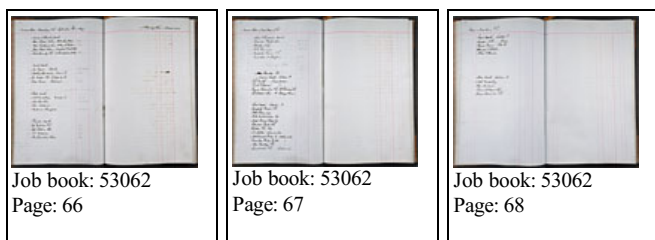
Robert Corbet & Son	mason and brick work	23 Onslow Drive	1903	£905 0s 0d	yes (20 January 1903)
Robert Gilchrist & Son	mason and brick work	50 New Street, Calton	1903	£900 8s 0d	no
John Paterson & Son Ltd	mason and brick work	610 Pollokshaws Road	1903	£960 0s 0d	no
James Goldie & Son	mason and brick work	St Enoch's Square	1903	£949 0s 0d	no
Bell Hornsby & Co.	mason and brick work	176 Pollokshaws Road	1903	£907 0s 0d	no
James Grant	joiner work	Pitt Street	1903	£265 2s 3d	yes (20 January 1903)
Matthew Henderson	joiner work	Grant Street	1903	£327 8s 4d	no
James Maben & Co.	joiner work	65 Eglinton Street	1903	£265 17s 8d	no
Thomas Brown	joiner work	Rottenrow	1903	£271 0s 0d	no
A. & D. MacKay	slater work	no data in job book	1903	£37 10s 0d	yes (20 January 1903)
A. M. Ross & Sons	slater work	no data in job book	1903	£42 12s 4d	no
John Anderson	slater work	no data in job book	1903	no data in job book	no
Anderson & Crawford	slater work	no data in job book	1903	£44 9s 2d	no
James Ingleton & Co.	plumber work	no data in job book	1903	£53 10s 0d	yes (20 January 1903)
Fyfe & Allan	plumber work	no data in job book	1903	£52 0s 0d	no
William Anderson	plumber work	no data in job book	1903	£52 0s 0d	no
James Johnstone & Son	plumber work	no data in job book	1903	£50 0s 0d	no
Brown & Young	plumber work	no data in job book	1903	£56 9s 1d	no
R. A. McGilvray	plaster work	no data in job book	no data in job book	£75 16s 6d	no
George Rome & Co.	plaster work	no data in job book	no data in job book	£68 10s 2d	yes
William Forbes	plaster work	no data in job book	no data in job book	no data in job book	no
William Halley & Co.	plaster work	no data in job book	no data in job book	£69 18s 1d	no
William Tonner & Son	plaster work	no data in job book	no data in job book	no data in job book	no

Payments (trades):

Name	Type	Payment out sum
Robert Corbet & Son	mason and brick work	First installment: 27 October 1903 Final installment: 3 April 1904 £942 0s 5d
James Grant	joiner work	First installment: 1 March 1904 Final installment: 28 December 1904 £284 12s 1d
A. & D. MacKay	slater work	Payment date: 28 December 1904 £36 13s 11½d
James Ingleton & Co.	plumber work	First installment: 7 May 1904 Final installment: 14 April 1905 £49 15s 2d

George Rome & Co.	plaster work	Payment date: 14 April 1905 £20 11s 5½d
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Phase 4: Work including 'New Foundry Pit' (not dated, probably not carried out)



Client: Robert McLaren & Co.

Measurer: N. Ramsey & Sons

Tenders:

Contractor	Type	Address	Date	Value	Accepted
Robert Corbet & Sons	mason and brick work	23 Onslow Drive		£218 0s 0d	no data in job book
Robert Gilchrist & Sons	mason and brick work	50 New Street, Calton		£170 0s 0d	no data in job book
John Porter & Sons	mason and brick work	Janefield Brick Works		no data in job book	no data in job book
Bell Hornsby & Co.	mason and brick work	176 Pollokshaws Road		£192 0s 0d	no data in job book
James Grant	wright work	Pitt Street		£358 14s 5d	no data in job book
Mathew Henderson	wright work	Grant Street		£427 0s 0d	no data in job book
James Maben & Co.	wright work	65 Eglinton Street		no data in job book	no data in job book
Thomas Brown	wright work	Rottenrow		£349 0s 0d	no data in job book
A. & D. Mackay	slater work	Oswald Street		£72 15s 0d	no data in job book
A. M. Ross & Son	slater work	no data in job book		£90 19s 2d	no data in job book
John Anderson	slater work	no data in job book		no data in job book	no data in job book
Anderson & Crawford	slater work	no data in job book		£79 2s 11d	no data in job book
James Ingleton & Co.	plumber work	no data in job book		£117 0s 0d	no data in job book
Fyfe & Allan Ltd	plumber work	no data in job book		£120 0s 0d	no data in job book
William Anderson	plumber work	no data in job book		£127 0s 0d	no data in job book
James Johnstone & Sons	plumber work	no data in job book		£120 0s 0d	no data in job book
Donald Clark & Son	steel and concrete work	no data in job book		£261 5s 3d	no data in job book
Bladen & Co.	steel and concrete work	no data in job book		£253 7s 5d	no data in job book
P. & R. Fleming	steel and concrete work	no data in job book		£242 8s 11d	no data in job book
Redpath Brown & Co.	steel and concrete work	no data in job book		no data in job book	no data in job book
J. & J. Smith ⁶	mason work	Dumbarton		no data in job book	no data in job book
P. McCallwin ⁷	mason work	Dumbarton		no data in job book	no data in job book
James Robertson & Co. ⁸	mason work	376 St Vincent Street		no data in job book	no data in job book
J. K. Dickie & Sons ⁹	mason work	80 Coburg Street		no data in job book	no data in job book
Redpath Brown & Co. ¹⁰	steel work	no data in job book		no data in job book	no data in job book
P. & R. Fleming ¹¹	steel work	no data in job book		no data in job book	no data in job book
P. & W. MacLellan Ltd ¹²	steel work	no data in job book		no data in job book	no data in job book
Arrol Bridge & Roof Co. ¹³	steel work	no data in job book		no data in job book	no data in job book
Donald Clerk & Co. ¹⁴	steel work	no data in job book		no data in job book	no data in job book
Bladen & Co. Ltd ¹⁵	steel work	no data in job book		no data in job book	no data in job book
J. A. Miller Somerville ¹⁶	steel work	no data in job book		no data in job book	no data in job book
Motherwell Bridge Co. ¹⁷	steel work	Motherwell		no data in job book	no data in job book

Brandon Bridge Co. Ltd ¹⁸	steel work	Motherwell		no data in job book	no data in job book
Alex Findlay & Co. ¹⁹	steel work	Motherwell		no data in job book	no data in job book
Somervail & Co. ²⁰	steel work	Dalmuir		no data in job book	no data in job book
Lawson & Co. ²¹	joiner work	Govan		no data in job book	no data in job book
James Grant ²²	joiner work	Pitt Street		no data in job book	no data in job book
Skinner & Whyte ²³	joiner work	no data in job book		no data in job book	no data in job book
Allan & Baxter ²⁴	joiner work	no data in job book		no data in job book	no data in job book
A. & D. Mackay ²⁵	slater work	no data in job book		no data in job book	no data in job book
John Anderson ²⁶	slater work	no data in job book		no data in job book	no data in job book
John McOwat & Son ²⁷	slater work	no data in job book		no data in job book	no data in job book
James Robertson & Co. ²⁸	slater work	no data in job book		no data in job book	no data in job book

Phase 5: New Foundry Pit, 1904–5



Job book: 53062
Page: 77



Job book: 53062
Page: 78



Job book: 53062
Page: 79

Client: Robert McLaren & Co.

Measurer: Babbie & Bonn

Tenders:

Contractor	Type	Date	Value	Accepted
Redpath, Brown & Co.	mason work	August 1904	£423 5s 11d	no
Bladen & Co.	mason work	August 1904	£531 10s 6d	no
J. & J. Smith	mason work	August 1904	£528 0s 0d	no
James Grant	mason work	August 1904	£701 10s 4d	no
P. & W. Maclellan	mason work	August 1904	£483 0s 0d	no
Somervail & Co.	mason work	1904	£389 2s 9d	no
Motherwell Bridge Co.	mason work	1904	£537 7s 0d	no
P. & R. Fleming	mason work	August 1904	£489 8s 10d	no
Allan & Baxter	mason work	August 1904	£682 14s 0d	no
Alex Findlay & Co.	mason work	August 1904	£662 16s 3d	no
Donald Clerk & Co.	mason work	August 1904	£720 4s 5d	no
Miller & Somerville	mason work	August 1904	£624 2s 6d	no
Redpath, Brown & Co.	mason work	September 1904	£426 9s 4d	yes
Redpath Brown & Co. Ltd	steel work	August 1904	£1952 16s 5d	no
Bladen & Co.	steel work	August 1904	£2033 6s 5d	no
James Grant	steel work	August 1904	£2132 4s 3d	no
Clyde Structural Iron Co.	steel work	August 1904	£2189 0s 0d	no
P. & W. Maclellan Ltd	steel work	August 1904	£2141 9s 5d	no
Somervail & Co.	steel work	August 1904	£2941 0s 0d	no
Brandon Bridge Building Co.	steel work	August 1904	£2941 0s 0d	no
Motherwell Bridge Co.	steel work	August 1904	£2454 3s 9d	no
Arrol Bridge & Roof Co.	steel work	August 1904	£2975 6s 8d	no
P. & R. Fleming	steel work	August 1904	£2436 0s 0d	no

Allan & Baxter	steel work	August 1904	£2233 12s 10s	no
Alex Findlay & Co.	steel work	August 1904	£2596 11s 0d	no
Donald Clerk & Co.	steel work	August 1904	£2149 7s 6d	no
Miller & Somerville	steel work	August 1904	£2365 14s 4d	no
Redpath, Brown & Co.	steel work	19 September 1904	£1970 1s 5d	yes
Redpath Brown & Co.	joiner work	August 1904	£148 0s 3d	no
Skinner & White	joiner work	August 1904	£155 11s 10d	no
Bladen & Co.	joiner work	August 1904	£155 15s 6d	no
James Grant	joiner work	August 1904	£170 16s 4d	no
P. & W. Maclellan Ltd	joiner work	August 1904	£145 2s 8d	no
Somervail & Co.	joiner work	August 1904	£160 16s 10d	no
Motherwell Bridge Co.	joiner work	August 1904	£160 0s 0d	no
P. & R. Fleming	joiner work	August 1904	£155 3s 5d	no
Allan & Baxter	joiner work	August 1904	£179 3s 8d	no
Alex Findlay & Co.	joiner work	August 1904	£156 18s 1d	no
Donald Clerk & Co.	joiner work	August 1904	£150 17s 8d	no
Miller & Somerville	joiner work	August 1904	£179 3s 8d	no
Redpath, Brown & Co.	joiner work	19 September 1904	£153 13s 7d	yes
Redpath Brown & Co.	slater work	August 1904	£359 19s 2d	no
Bladen & Co.	slater work	August 1904	£183 12s 6d	no
James Grant	slater work	August 1904	£193 2s 4d	no
John McOwat & Son	slater work	August 1904	£161 0s 10d	no
P. & W. Maclellan Ltd	slater work	August 1904	£309 5s 0d	no
Somervail & Co.	slater work	August 1904	£304 8s 4d	no
Motherwell Bridge Co.	slater work	August 1904	£183 1s 3d	no
P. & R. Fleming	slater work	August 1904	£164 19s 2d	no
A. & D. Mackay	slater work	August 1904	£208 5s 0d	no
James Robertson & Co.	slater work	August 1904	£179 6s 8d	no
Allan & Baxter	slater work	August 1904	£168 12s 6d	no
Alex Findlay & Co.	slater work	August 1904	£357 15s 0d	no
Donald Clerk & Co.	slater work	August 1904	£169 12s 6d	no
Miller & Somerville	slater work	August 1904	£196 10s 0d	no
Redpath, Brown & Co.	slater work	September 1904	£188 5s 10d	yes

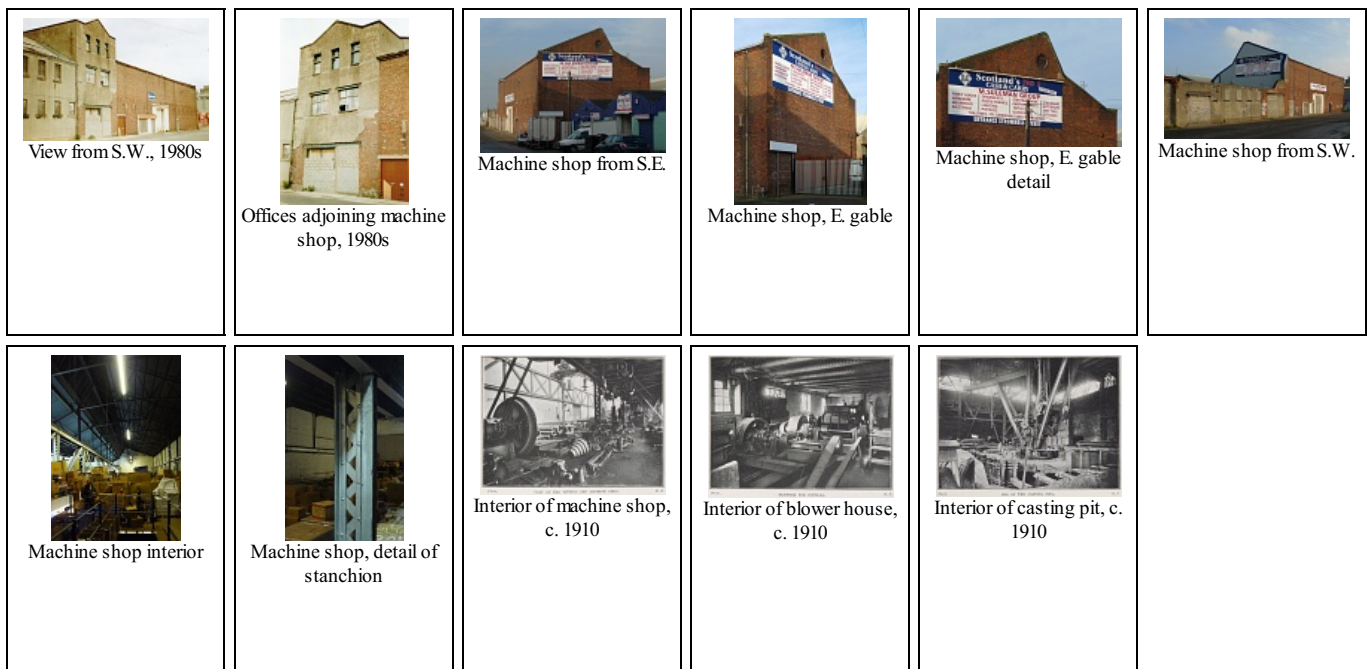
Payments (trades):

Name	Type	Payment out sum
Redpath, Brown & Co.	all trades	First installment: 12 April 1905 Final installment: 26 December 1905 £3024 3s 8d ²⁹

Measurer fee payment: £76 7s 0d

Documents

Images



Bibliography

Published

- Angus McLean, ed., *Local Industries of Glasgow and the West of Scotland*, Glasgow: Local Committee for the Meeting of the British Association, 1901, pp. 80–2
- J. G. Ketchen, *The Manufacture of Cast Iron Pipes: Robert Maclaren & Co., Ltd., Glasgow*, reprinted from *The Gentleman's Journal and Gentlewoman's Court Review*, no date

Unpublished

- Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, pp. 64, 82

Notes:

- 1: The Hunterian, University of Glasgow: GLAHA 52340 (M205-001).
- 2: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 64.
- 3: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 64.
- 4: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 26.
- 5: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 3.
- 6: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 64.
- 7: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 3.
- 8: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 82.
- 9: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 82.
- 10: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 78.
- 11: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, pp. 26–7.
- 12: The Hunterian, University of Glasgow: Honeyman, Keppie & Mackintosh job book, GLAHA 53062, p. 78.
- 13: *Glasgow Herald*, 27 November 1854, p. 3.
- 14: *Glasgow Post Office Directory*, 1857–8.
- 15: *Glasgow of To-Day*, London: Historical Publishing Company, 1888, p. 119. Angus McLean, ed., *Local Industries of Glasgow and the West of*

Scotland, Glasgow: Local Committee for the Meeting of the British Association, 1901, pp. 80–2.

16: *Engineering Review*, 20 December 1894, Supplement, p. 11. J. G. Ketchen, *The Manufacture of Cast Iron Pipes: Robert Maclaren & Co., Ltd., Glasgow*, reprinted from *The Gentleman's Journal and Gentlewoman's Court Review*, no date.

17: Glasgow City Archives Collection: Glasgow Dean of Guild Court Proceedings, D-OPW 19/19, p. 46; D-OPW 19/20, p. 33.

18: Glasgow City Archives Collection: Glasgow Dean of Guild Court, Register of Inspections, D-OPW 25/60, p. 82.

19: The Hunterian, University of Glasgow: GLAHA 52340 (M205-001).

20: J. G. Ketchen, *The Manufacture of Cast Iron Pipes: Robert Maclaren & Co., Ltd., Glasgow*, reprinted from *The Gentleman's Journal and Gentlewoman's Court Review*, no date, pp. 14–15.

21: Alternative tender: £1309 12s 7d.

22: 'returned with thanks'.

23: Alternative tender: £1263 12s 9d.

24: Includes £112 17s 3d for 'engine seats'.

25: For 'iron girders & iron channel'.

26: Included in list of tenderers for New Foundry Pit, 'mason work section A'.

27: Included in list of tenderers for New Foundry Pit, 'mason work section A'.

28: Included in list of tenderers for New Foundry Pit, 'mason work section A'.

29: Included in list of tenderers for New Foundry Pit, 'mason work section A'.

30: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

31: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

32: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

33: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

34: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

35: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

36: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

37: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

38: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

39: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

40: Included in list of tenderers for New Foundry Pit, 'steel work section B'.

41: Included in list of tenderers for New Foundry Pit, 'joiner work section C'.

42: Included in list of tenderers for New Foundry Pit, 'joiner work section C'.

43: Included in list of tenderers for New Foundry Pit, 'joiner work section C'.

44: Included in list of tenderers for New Foundry Pit, 'joiner work section C'.

45: Included in list of tenderers for New Foundry Pit, 'slater work section D'.

46: Included in list of tenderers for New Foundry Pit, 'slater work section D'.

47: Included in list of tenderers for New Foundry Pit, 'slater work section D'.

48: Included in list of tenderers for New Foundry Pit, 'slater work section D'.

49: This figure exceeded Redpath, Brown & Co.'s tender by £185 13s 5d. Foundations and painter work cost less than expected, but other aspects of the contract, especially steel work and Sunday labour, cost more. Details are given in a note in the job book.

Mackintosh Architecture: Context, Making and Meaning

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