

Index

Inventories are ordered and numbered, as exhibited, for sites recommended for listing.

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6.	22-30 Birmingham Street	Former Sil-Ora Dental Products factory
7.	27 Birmingham Street	Electricity Substation No. 375
8.	29-33 Birmingham Street	Former H. G. Whittle & Sons factory
9.	602-612 Botany Road (and 27-31 Ralph Street)	Former Coote & Jorgenson Engineers factory
10.	684 Botany Road	Former White Way service station
11.	47-49 Bourke Road	Former Q Store
12.	138-196 Bourke Road	Former Commonwealth Industrial Gases oxygen factory and demonstration block
13.	16 Euston Road	Electricity Substation No. 117
14.	40A-42 Maddox Street (and 58-68 Euston Road)	Former Alexandria Spinning Mills
15.	1-3 Mandible Street	Former Standard Telephones & Cables industrial building
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17.	124 McEvoy Street	Former Electricity Substation No. 152
18.	52-54 O'Riordan Street	Former National Motor Springs igloo building
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22.	1B Booth Street	Sewage Pumping Station No. 3
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25.	2-10 Golden Grove Street	Former Jones IXL factory garage
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33.	197-207 Wilson Street	Former F. W. Gissing factory
Redfern		
34.	53-63 Great Buckingham Street (and 611-619 Elizabeth Street)	Former A. Hordern & Sons factory complex
35.	99 Renwick Street	Electricity Substation No.112
Rosebery		
36.	6-8 Crewe Place	Former Wrigley's factory
37.	85-113 Dunning Avenue	Rosella Preserving and Manufacturing Co. factory
38.	88 Dunning Avenue	Electricity Substation No.192
39.	115-133 Dunning Avenue	Former Commonwealth Weaving Mills and Frederick Rose factory
40.	120 Dunning Avenue	Former Otis Elevator Co. factory
41.	135-151 Dunning Avenue	Former Westinghouse factory
42.	142 Dunning Avenue	Electricity Substation No. 128
43.	1-11 Hayes Road	Former R. C. Henderson Ltd factory
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45.	268-274 Devonshire Street	Former Edward Hill & Co factory
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54.	185 Clarence Street	Former Shelley warehouse
55.	193-195 Clarence Street	Shorter House
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57.	426-430 Kent Street	Former Grace House warehouse
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58.	10-16 Bay Street	Part Bay Street Depot
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59.	723 Elizabeth Street	Former William Brooks factory
60.	378 George Street	Electricity Substation No. 75
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Zetland

62.	146-158 Joynton Avenue	Former Joseph Lucas showroom, workshop and office
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Conservation area inventories**Alexandria**

63.	North Alexandria industrial heritage conservation area	
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Alexandria & Beaconsfield

64.	William Street industrial heritage conservation area	
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Inventory 15

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Address: 1-3 Mandible Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish:

State: NSW

County:

Other/former names: STC, Alcatel Australia Ltd

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Manufacturing and Processing

Category: Factory/ Plant

Owner: Private - Corporate

Admin codes:

Code 2:

Code 3:

Current use: Commercial

Former uses: Industrial / commercial

Assessed significance: Local

Endorsed significance:

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

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Statement of significance: Built in 1945 for communications manufacturers, Standard Telephone & Cables, this building represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to Australian manufacturing of radios, cables, and telephones. As the place where these products were made for Standard Telephone & Cables, this building provides evidence of major technological advancements in communications and the high demand for these products during the twentieth century.

The building represents the only remaining intact building erected for Standard Telephones & Cables Pty Ltd at Alexandria. Standard Telephones & Cables was a well-known technology company which provided communications equipment for World War II and became the backbone of Australia's communications during peace-time. The building at 1-3 Mandible Street demonstrates the later expansion of this company likely as a result of the high demands of World War II.

Architecturally, the building represents a late example of an inter-war functionalist industrial building. It exhibits typical features of this architectural style including its simple geometric massing, polychromatic face brickwork, parapet wall, horizontally-proportioned multi-paned steel windows, chamfered corner, and continuous lintels, brickwork of the spandrel, piers and string courses expressing the horizontality of facades. The prominent corner site and robust building form give the building landmark qualities in the local neighbourhood, where it marks the junction of Wyndham and Mandible streets. The building makes an important contribution to the streetscapes of Wyndham and Mandible streets, and is visible from a number of near and distant vantage points. The tapered skylight roof form is relatively rare for the Sydney local government area.

As one of southern Sydney's major employers of the time, which invested in the welfare and working conditions of its employees, the building is likely to have social significance to the former employees of Standard Telephones and Cables.

The site may also hold significance to the Australian community and former Australian military personnel for its connection to the radios, telephones and other communications technology manufactured at this site, which were found in many Australian households during the twentieth century and were used by the Australian Army, Navy and Air Force and the United States force in the Pacific during World War II. These devices represented major technological advancements of their time for Australian households and the war effort, as well as major social change through improved long-distance communications.

The former Standard Telephone & Cables building forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former Standard Telephones & Cables Pty Ltd is of local heritage significance in terms of its historical, associations, social, and representative values.

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Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, City of Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

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were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Site history:

This building was constructed by Standard Telephones and Cables Pty Ltd (STC) in 1945 as part of the World War II period of expansion when its major factory complex site on Botany Road, on the opposite side of Wyndham Street, reached capacity.

Standard Telephones & Cables Pty Ltd was a well-known communications technology company that provided communication equipment during war-time and subsequently became the backbone of Australia's communications during peace-time.

The company was established in Australia in the 1920s as an independent subsidiary of the British Standard Cables and Telephones to manufacture radio receivers, transmitters and telephone equipment. The Australian subsidiary of this company was established by engineer Sandy McPhee who set up a new factory in Chippendale in the early 1920s. Radios from 1923 to 1926 were imported from Britain under the brand "Western Electric". From 1926 the company brand became known as "STC". Radio transmission equipment was sold to 2FC and 2BL in Sydney and 2CY in Canberra, amongst other regional and interstate radio stations.

The business later expanded to manufacture valves (tubes) and military equipment. The Standard Telephones & Cables contributed to the World War II effort through the production of radio and communication apparatus. As well as manufacturing communications equipment for the Australian Army, Navy and Air Force in World War II, the company supplied communications equipment to the United States forces in the Pacific under the Lend-Lease agreement (STC, 50 years, 1895-1945).

The company had outgrown its earlier site in Chippendale by the 1930s. By 1936 the business commissioned a new factory at Botany Road, designed by the prominent architects Robertson & Marks. This merged its Redfern and Chippendale factories together with the administration staff at the city office in a single location on a site dedicated to manufacturing telecommunications equipment and systems. Originally the factory extended over a large complex of 30,000 square feet (STC, 50 years, 1895-1945, p 9). By 1939, the factory floor had grown to 75,000 square feet. During the 1940s, the company continued enlarging. By 1943 it occupied a site of approximately 200,000 square feet.

The subject corner building at 1-3 Mandible is likely to have been designed by the prominent architectural firm, Robertson & Marks, due to design similarities with the rest of the industrial complex. The land for this building was purchased by Standard Telephones and Cables Pty Ltd on 26 September 1944 on the site located directly opposite the company's main works on Botany Road (Old System Deed, No 261 Bk 1951). Records show that a brick factory was under construction in 1945 when this land was valued on 23 March 1945 (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, No 307).

STC was a major employer of the area, employing over 2,000 people. In 1943, the company's payroll is estimated to have reached over half a million pounds, indicating the scale of its workforce. They were also noted to have exceptional working conditions, with no expenses being spared for good working conditions and natural light.

In 1941, the size of the workforce, its mostly female demographic and the company patriotism during World War II was demonstrated in photos of the ceremony when STC workers, all in STC uniform, donated an ambulance to the war effort.

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The buildings of Standard Telephones & Cables were designed with optimal natural lighting and highly efficient artificial lighting. They were recognised in the trade as one of the most outstanding examples of modern artificial lighting in Sydney.

The company history published in approximately 1945 included a retouched photo of these offices. The offices were then shown as a two-storey brick building with sawtooth roofs containing south-facing windows (STC, 50 years, 1895-1945, p 34-5).

By the end of the war, there was no further room to expand the factory at Botany Road. STC therefore expanded to land it purchased at Villawood (STC, 50 years, 1895-1945, p 9).

On 24 March 1950, Standard Telephones and Cables Pty Ltd applied to convert the Old System Title to Torrens Title (RPA 37355). The land remained in the ownership of Standard Telephones and Cables Pty Ltd until approximately 1970 (CT 6415 f 42).

In 1987 the company was purchased by Alcatel Australia Limited.

Themes:	National theme	State theme	Local theme
	3. Economy	Industry	Factories
	3. Economy	Communication	Telephones & Cables
	4. Settlement	Towns, suburbs and villages	Development
	3. Economy	Commerce	Warehouses

Designer: Likely to have been designed by Robertson & Marks

Builder:

Year started: 1945

Year completed: 1945

Circa: Yes

Physical description: The building was constructed in 1945 for Standard Telephones and Cables on the prominent corner site at the junction of Mandible and Wyndham Streets, along the south bank of the Shea's Creek stormwater channel. The building is two-storeys in height, constructed of face brick, with no setback from the two street frontages. The building is contained under seven joined sawtooth roofs of an unusual tapered form with south-facing lanterns. The sawtooth roofs are partly concealed by high parapet walls along all elevations.

The building represents a late example of an industrial building designed in the inter-war functionalist architectural style. It exhibits typical features of this architectural style including its simple geometric massing, polychromatic face brickwork, parapet wall, horizontally-proportioned multi-paned steel framed windows, chamfered corner, and continuous lintels, brickwork of the spandrel, piers and string courses expressing the horizontality of facades.

The main access is located on the chamfered corner, featuring a pair of decorative metal doors, polychromatic brick surrounds. A stair tower is located along the northern side elevation, contained under a gabled roof. A small wing is located along the western elevation, setback from Mandible Street.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war functionalist. Storeys: Two. Facade: Face brick. Windows: Rectangular steel framed. Roof: Saw-tooth with tapered skylights.

Physical condition level: Good

Physical condition:

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Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates:

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Do not paint or render face brick finishes.

Face brickwork, lintels and string courses, saw-tooth roofs, parapet wall, multi-paned steel-framed windows, chamfered corner, early signage, metal entrance doors, polychromatic brickwork surrounds to the main entrance and other original building features should be maintained and conserved.

Consider new uses for the building that will re-use and expose its industrial features to retain the building's former industrial character as an integral part of the new use. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): [Historical significance] Built in 1945 for communications manufacturers, Standard Telephone & Cables, this building represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to Australian manufacturing of radios, cables, and telephones. As the place where these products were made for Standard Telephone & Cables, this building provides evidence of major technological advancements in communications and the high demand for these products during the twentieth century.

The building represents the only remaining intact building erected for Standard Telephones & Cables Pty Ltd at Alexandria. Standard Telephones & Cables was a well-known technology company which provided communications equipment for World War II and became the backbone of Australia's communications during peace-time. The building at 1-3 Mandible Street demonstrates the later expansion of this company likely as a result of the high demands of World War II.

The former Standard Telephone & Cables building forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

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Criteria b): This building has significant associations with the twentieth century operations of Standard Telephones & Cables Pty Ltd., a well-known communications technology company, from 1945 to the 1970s. The building design is also likely associated with the prominent architectural firm of Robertson & Marks, which designed other buildings on the larger site for this company.
[Historical association significance]

Criteria c): Architecturally, the building represents a late example of an inter-war functionalist industrial building. It exhibits typical features of this architectural style including its simple geometric massing, polychromatic face brickwork, parapet wall, horizontally-proportioned multi-paned steel windows, chamfered corner, and continuous lintels, brickwork of the spandrel, piers and string courses expressing the horizontality of facades.
[Aesthetic/Technical significance]

The prominent corner site and robust building form give the building landmark qualities in the local neighbourhood, where it marks the junction of Wyndham and Mandible streets. The building makes an important contribution to the streetscapes of Wyndham and Mandible streets, and is visible from a number of near and distant vantage points. The tapered skylight roof form is relatively rare for the Sydney local government area.

The building also demonstrates the high standard of working conditions and employee welfare which was a known value of Standard Telephones and Cables. The building was designed for optimal natural lighting, as well as highly efficient artificial lighting which was recognised in the trade as one of the most outstanding examples of modern artificial lighting in Sydney.

The building likely represents the work of the prominent architectural firm, Robertson & Marks, who designed other buildings on this larger site for Standard Telephone & Cables.

Criteria d): Social significance requires further study to ascertain its value to communities.
[Social/Cultural significance]

As one of southern Sydney's major employers of the time which employed over 2,000 people and which invested in the welfare and working conditions of its employees, the building is likely to have social significance to the former employees of Standard Telephones and Cables. In 1943, the company's payroll is estimated to have reached over half a million pounds, indicating the scale of its workforce.

The site may also hold significance to the Australian community and former Australian military personnel for its connection to the radios, telephones and other communications technology manufactured at this site, which were found in many Australian households during the twentieth century and were used by the Australian Army, Navy and Air Force and the United States force in the Pacific during World War II. These devices represented major technological advancements of their time for Australian households and the war effort, as well as major social change through improved long-distance communications.

Criteria e):
[Research significance]

Criteria f): The building is rare as the only intact remaining building of the former Standard Telephones & Cables industrial site. Within the Mandible and Wyndham Street streetscapes, it is also a rare example of intact inter-war functionalist building. Its tapered skylight roof form is relatively rare in the Sydney local government area.
[Rarity]

Criteria g): The building represents a good example of a late inter-war functionalist industrial building.
[Representative]

Intactness/Integrity: Relatively intact externally.

Item name: Former Standard Telephones & Cables industrial building including interiors

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Sydney

References:	Author	Title	Year
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014
	Standard Telephones and Cables Pty L	Standard Telephones and Cables Pty Ltd, 50 years, 1895-1945:	1945
	RTA	Aerial Photographs of Sydney May-June 1943	1943
	City of Sydney/ City Building Surveyors	City Building Surveyors Detail Sheets	1956
	Scott Cumming	Chimneys and Change: Post European Environmental Impact in	2004
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Alexandria / Waterloo, Sydney	1890
	Alexandria Municipal Council	Alexandria, "the Birmingham of Australia" 75 years of progress	1943
		The Cyclopaedia of New South Wales, p416-417	1907
	Land Titles Office	Book A No.49, 25 January 1825	1825
	City of Sydney	Aerial Survey of the City of Sydney	1949

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial and Warehouse Buildings		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	1		DP	87355

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Warehouse	Heritage study		

Data entry: Data first entered: 18/07/2014

Data updated: 14/05/2015

Status: Completed

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: Chamfered south-east corner of the building at junction of Mandible and Wyndham Streets

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 16/08/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3459950484db7884d56abdabb0f1a14de6f.jpg>

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Item name: Former Standard Telephones & Cables industrial building including interiors

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Image:



Caption: Northern and eastern elevations of the building viewed from Wyndham Street

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 16/08/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345ef60e3d910e8454589e814699127ac79.jpg>

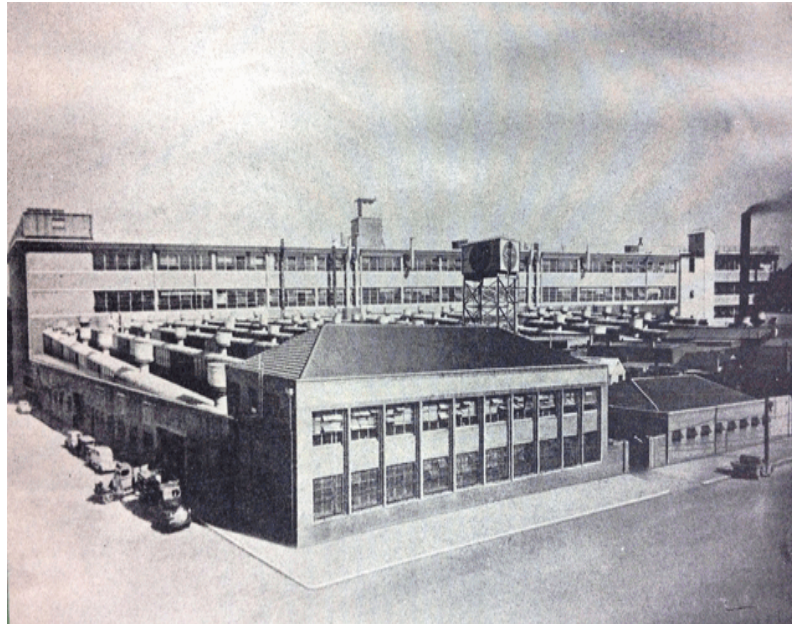
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Item name: Former Standard Telephones & Cables industrial building including interiors

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Sydney

Image:



Caption: Standard Telephones and Cables site in 1943

Copy right:

Image by: Alexandria Municipal Council

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3455dcde7a94d74ecfb4cf4bb619723b03.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3455dcde7a94d74ecfb4cf4bb619723b03.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

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Image:



Caption: The building in 1945 with sawtooth roofs and large areas of glass for natural lighting

Copy right:

Image by: Standard Telephones and Cables Pty Ltd, 50 years, 1895-1945

Image date: 01/01/1945

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c3f8c4663f0d4af784167b2789debf04.jpg>

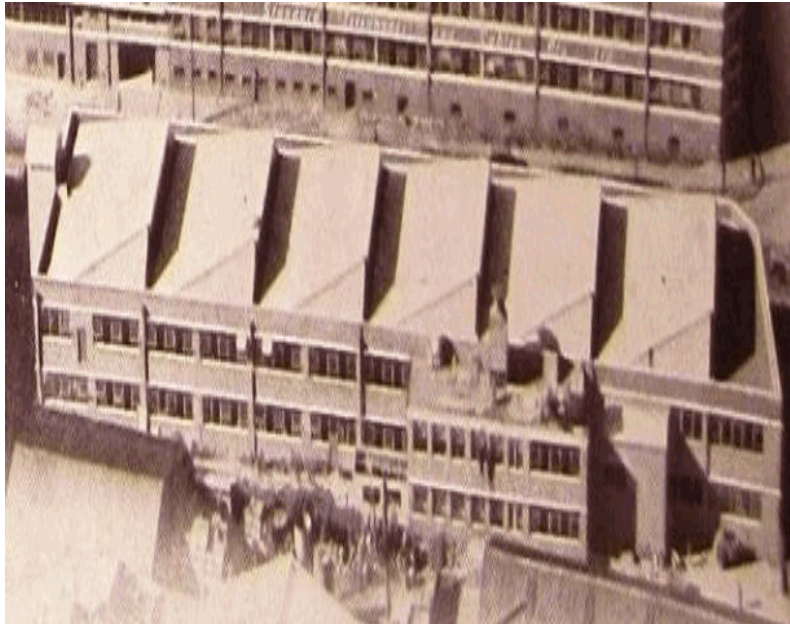
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Image:



Caption: Western elevation and roof of the subject building in 1945

Copy right:

Image by: Standard Telephones and Cables Pty Ltd, 50 years, 1895-1945

Image date: 01/01/1945

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34549866181ddc64ce8a24269de2a3e1104.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34549866181ddc64ce8a24269de2a3e1104.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

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Image:



Caption: Subject building (left) in 1940s looking north on Wyndham Street

Copy right: City of Sydney archives

Image by: City of Sydney Archives SRC14184

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458e88190dae304ff6a1dd42e80c96be5f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3458e88190dae304ff6a1dd42e80c96be5f.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

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Image:



Caption: 1941 presentation of ambulance by the staff of Standard Telephone & Cables (SLNSW hood_30751)

Copy right: State Library of NSW

Image by: Sam Hood

Image date: 01/10/1941

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345d4db2372e6384eb4a235118c4fc1753a.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345d4db2372e6384eb4a235118c4fc1753a.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: Uniformed workers of STC in 1941 as they presented an ambulance (SLNSW, hood_30748)

Copy right: State Library of NSW

Image by: Sam Hood

Image date: 01/10/1941

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3454555fce3ca374dfd8353109d2b9baacc.jpg>

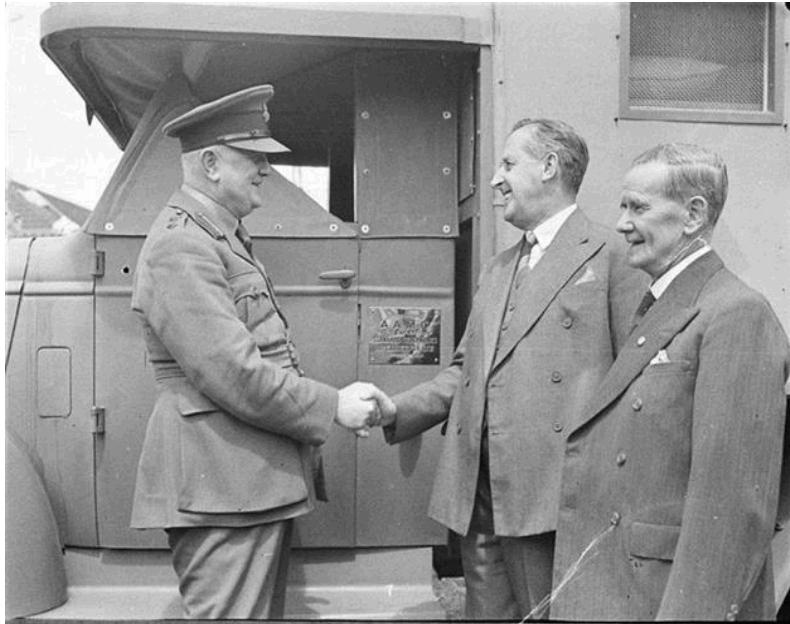
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3454555fce3ca374dfd8353109d2b9baacc.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: 1941 presentation of ambulance by the staff of Standard Telephone & Cables (SLNSW, hood_30746)

Copy right: State Library of NSW

Image by: Sam Hood

Image date: 01/10/1941

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b9677b83b81c4ffdb0280c38933a0d54.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345b9677b83b81c4ffdb0280c38933a0d54.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: Uniformed workers of STC in 1941 as they presented an ambulance (SLNSW, hood_30747)

Copy right: State Library of NSW

Image by: Sam Hood

Image date: 01/10/1941

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345150edfdd614d4097af0597353ca94749.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345150edfdd614d4097af0597353ca94749.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: Aerial showing the Standard Telephones and Cables site, bounded in blue , in 1949

Copy right: City of Sydney archives

Image by: City of Sydney

Image date: 15/12/1949

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345daa1dea418834cca9783e8ff76d78ff6.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345daa1dea418834cca9783e8ff76d78ff6.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney



Caption: 1956 detail sheet showing the subject site, circled, and surrounding industries

Copy right: City of Sydney archives

Image by: City Building Surveyors Department, City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/3459068a7cf5a794e9a81826af15a62b376.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test3459068a7cf5a794e9a81826af15a62b376.jpg

Item name: Former Standard Telephones & Cables industrial building including interiors

Location: 1-3 Mandible Street Alexandria 2015

Sydney

Image:



Caption: Some of the domestic radios produced by the company

Copy right:

Image by: Standard Telephones and Cables Pty Ltd, 50 years, 1895-1945

Image date: 01/01/1945

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345e7150679a2b5472e9c709c82f3267c33.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345e7150679a2b5472e9c709c82f3267c33.jpg

Inventory 17

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Address: 124 McEvoy Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish: Alexandria

State: NSW

County: Cumberland

Other/former names:

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Utilities - Electricity

Category: Electricity Transformer/Substation

Owner: Private - Corporate

Admin codes:

Code 2:

Code 3:

Current use: Cafe

Former uses: Electricity substation

Assessed significance: Local

Endorsed significance:

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Statement of significance: Built in 1924, Electricity Substation No. 152 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

Aesthetically, the building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

Electricity Substation No. 152 represents a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, face brickwork, original signage, multi-paned timber windows and an emphatic portal accentuated by surrounding decoration, including a classical bracketed cornice.

The building contributes to the streetscape and is a significant example of civic architecture in the area. Its conversion into a cafe has retained the architectural integrity of the building as a recognisable former substation.

Electricity Substation No. 152 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No. 152 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's McEvoy Street was mostly occupied by industries during the first half of the twentieth century.

Substation No.152 is of local heritage significance in terms of its historical, aesthetic and representative significance.

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Substations history:

One of the major innovations in industry during the nineteenth century was the development of electricity as a power and lighting source, which rivalled and then replaced water and steam power. The mills and workshops of the earlier Industrial Revolution in Britain and North America were mainly water and steam powered, whereas Australia's twentieth century industrial buildings were powered by electricity.

As part of supplying electricity to Sydney's houses and industries for the first time, Sydney Council built Sydney's first power stations and substations during the first half of the twentieth century. Sydney Council, then known as Sydney Municipal Council or the Municipal Council of Sydney, was charged with supplying electricity to Sydney city and surrounding areas in 1896 through the law named the Municipal Council of Sydney Electric Lighting Bill passed on 16th October 1896. Electricity supply was managed through the council's department known by a number of names: the Electric Lighting Committee, the Electric Light Department and the Electricity Department from 1920 to 1935. From 1936 the electricity undertaking was named Sydney County Council when it was reformed as a separate authority as a result of the Gas & Electricity Act of 1935. The various names for the council and subsequent electrical authority are recorded in the initials and building names inscribed in substation facades.

Sydney's first power station at Pyrmont began operating in 1904. The large network of substations were constructed in strategic locations to supply power from these power stations to individual customers and other electricity networks. Their specific purpose was to house machinery to convert high voltage electricity for industrial or domestic use. Substations were often erected in close proximity to factories to service their high energy demands. Consequently the number, concentration and location of substations provide markers of twentieth-century factories and industrial centres in the way that chimney stacks marked factories pre-dating electricity.

Alexandria demonstrates this pattern with its larger number of substations reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity.

Alexandria's McEvoy Street was mostly occupied by industries during the first half of the twentieth century. By 1956, these surrounding industries included the large Acme Bedstead Co. factory site on which the substation was located, Pioneer Heals to the immediate west, Kia Ora Industries to the east, and J. McCarthy & Co located on the opposite side of McEvoy Street.

The period and location of surviving substations record the progressive extension of Sydney's electrical network from the centre of Sydney to surrounding areas, the scale and importance of this network, and the fundamental changes electricity brought for Sydney's growth, development and society. Sydney Municipal Council built its first substations at Town Hall, Taylor Square, Woolloomooloo and Ultimo, followed by Glebe, Newtown, Camperdown and surrounding areas. From 1904 to 1935, Sydney Council built more than 360 substations and almost 400 pole transformers throughout Sydney and surrounding suburbs. More continued to be built in the following decades. The Energy Australia (AusGrid) heritage and conservation register records that 33 of the surviving substations are located within the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier, including the subject substation.

Each substation has its own number inscribed on the building facade, which reflects its role in the broader

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

electrical network and generally the total number, sequence and period of construction, with some exceptions where disused numbers were reallocated. Most substations were constructed in established urban areas on a small portion of land acquired or subdivided specifically for this purpose. These buildings, while modest in scale and different in function to surrounding buildings, were designed and constructed to a good standard, in a style designed to harmonise with surrounding architecture, in order to reduce community fears or resistance to the incursion of this new technology and impacts on the appearance of streets.

The rise of electricity during the late nineteenth century, and in particular small motors for driving machinery and electrical lights, changed the configuration of industrial buildings and machinery. Electricity meant that factories could be designed with a more flexible layout because small electric motors eliminated the need for belt and shaft drives from the steam plant. Factory building design became less reliant on windows for natural light and gas lighting ventilation because of the advent of electric lighting. Electricity also created a new market for factories to produce the new consumer goods reliant on electric power, such as fridges, washing machines, telephones, stoves, ice cream, and the engineering for electric lights, trains and trams.

Site history:

This substation was constructed by the end of 1924 and began operating during the following year.

During the later Sydney County Council era, the cement-finished areas of the exterior were painted and the "SMC" lettering for Sydney Municipal Council on the name panel above the doorway was removed.

The substation remained in service until August 2003. The property was sold in June 2004. The building has been retained and re-used as a cafe.

(Pennington 2012)

Themes: **National theme**

3. Economy

4. Settlement

State theme

Technology

Utilities

Local theme

Electricity

Electricity Substation

Designer: Sydney Municipal Council

Builder: Sydney Municipal Council

Year started: 1924

Year completed: 1924

Circa: No

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Physical description: Substation No. 152 was built by Sydney Municipal Council in 1924. The substation comprises a single-storey brick building contained under a pitched roof concealed behind parapet walls. The street elevation is constructed of face brickwork with the upper portion rendered and painted, except for the brick-on-edge detailing for the parapet wall.

The substation exhibits typical characteristics of the inter-war architectural period applied to a utilitarian building, including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, face brickwork and an emphatic portal. The central entrance is accentuated through surrounding decoration, including the classical bracketed cornice and signage. Original multi-paned timber windows flank the entrance.

Original signage integrated into the facade through relief lettering above the entrance records the origins of the building and the substation's number within Sydney's electricity network. The removal of the "SMC" reflects the transfer of the electrical network from Sydney Municipal Council to Sydney County Council.

The front corrugated iron fence and timber gate which accessed the former transmission yard have been replaced.

The building has been converted into a cafe, while maintaining its architectural integrity and recognisable form as a former substation.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war. Storeys: 1. Façade: Face brick. Side/Rear Walls: Face brick. Windows: Timber multi-paned.

Physical condition level: Good

Physical condition:

Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates: Timeline of known dates for changes to the site:

During the Sydney County Council era the cement-finished areas of the exterior were painted and the "SMC" lettering on the name panel above the doorway removed (Pennington 2012).

2003-4
Substation use ceased

2012-13
Building altered for change of use to a cafe, including new front door, painted signs and deck with awning in side courtyard (former transmission yard)

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Do not render or paint face brickwork.

No vertical additions should be made to the building.

Ensure original architectural detailing, windows, signage and other original features of the substation are maintained.

New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Built in 1924, Electricity Substation No. 152 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

[Historical significance]

Electricity Substation No. 152 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No. 152 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's McEvoy Street was mostly occupied by industries during the first half of the twentieth century.

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Criteria b): The substation has significant associations with the Municipal Council of Sydney, who constructed the building as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936. The building also has associations with surrounding industries for which is once supplied electricity, in particular the large Acme Bedstead Co. factory site on which the substation was located.

Criteria c): The building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

[Historical association significance]

Electricity Substation No. 152 represents a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, face brickwork, original signage, multi-paned timber windows and an emphatic portal accentuated by surrounding decoration, including a classical bracketed cornice.

The building contributes to the streetscape and is a significant example of civic architecture in the area. Its conversion into a cafe has retained the architectural integrity of the building as a recognisable former substation.

Criteria d): Social significance requires further study to ascertain its value to communities. The building may have value to community members with an interest in the history, buildings and technology for Sydney's electrification.

Criteria e): The building may offer research potential into the evolution of architectural design for substations in Sydney.

Criteria f):
[Rarity]

Criteria g): The building represents a good example of a substation from the inter-war period.

[Social/Cultural significance]

The substation forms part of a collection of extant substations, which together represent the growth of Sydney's electrical network and the major change that electricity brought for Sydney's growth, development and population during the twentieth century, in particular for the development of industry.

Of more than 360 originally built by Sydney Municipal Council from 1904 to 1930 in metropolitan Sydney, the current Energy Australia (AusGrid) heritage and conservation register records that 33 surviving substations are located in the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier, including the subject substation.

Intactness/Integrity: Largely intact externally

References:	Author	Title	Year
	James Pennington	Electricity Substations of the Sydney Municipal Council, p.67,	2012
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Alexandria Sydney	1890
	Higinbotham & Robinson	Waterloo Sydney	1890

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage !		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	1		DP	85600

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing: Name

Title

Number

ListingDate

City of Sydney Industrial and Ware Heritage study

Data entry: Data first entered: 05/08/2014

Data updated: 13/05/2015

Status: Completed

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Image:



Caption: Former substation in 2014 following its conversion to a cafe

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34513936433db2c4969938b3feaf37d6b04.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test34513936433db2c4969938b3feaf37d6b04.JPG

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Image:



Caption: Detail of original decoration and signage above entrance

Copy right: City of Sydney

Image by: City Plan Heritage and JCIS Consultants

Image date: 05/09/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345ad277e6078e44424aeae650a4aec283f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345ad277e6078e44424aeae650a4aec283f.jpg

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Image:



Caption: The building in 1928 shortly after construction

Copy right: Ausgrid

Image by: Ausgrid

Image date: 05/09/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458a14aff3a4a24298aa4039b0e9779589.jpg>

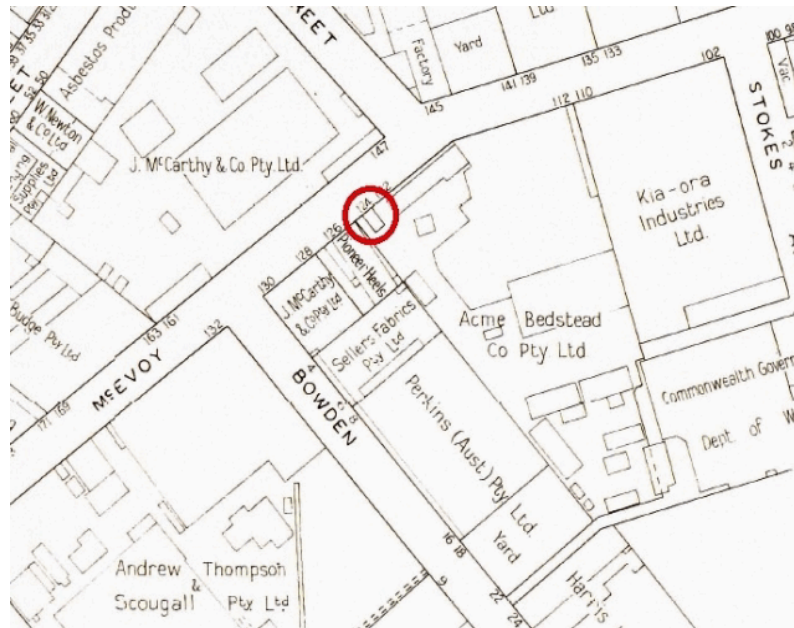
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3458a14aff3a4a24298aa4039b0e9779589.jpg

Item name: Former Electricity Substation No.152 including interiors

Location: 124 McEvoy Street Alexandria 2015

Sydney

Image:



Caption: 1956 detail sheet showing subject substation and surrounding industries

Copy right: City of Sydney archives

Image by: City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/345471549771b8f4cb4b6ec04a4f34ca352.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test345471549771b8f4cb4b6ec04a4f34ca352.jpg

Inventory 18

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Address: 52-54 O'Riordan Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish:

State: NSW

County:

Other/former names: Undercarriage Annex, National Motor Springs Annex, National Art Metal Company (NAMCO) Pty Ltd, National Securities F

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: Igloo building and immediate surrounding land, as described in Sydney Local Environmental Plan

Item type: Built

Group: Manufacturing and Processing

Category: Other - Manufacturing & Processing

Owner:

Admin codes:

Code 2:

Code 3:

Current use: Industrial/ commercial

Former uses: Factory

Assessed significance: State

Endorsed significance:

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Statement of significance: Purpose-built in 1941 as a government annex to manufacture aircraft undercarriages for the Australian military, this former National Motor Springs factory represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to Australian manufacturing of the Beaufort bomber, Beaufighter and Lincoln aircraft for World War II, and subsequently aircraft components and NAMCO furniture during peacetime. The building provides evidence of Australia's wartime industry and the formerly widespread engineering industry in Alexandria.

The scale of the building demonstrates the importance of the munitions and engineering industry for Sydney and Australia during the twentieth century and documents the growth of this industry to support the war effort. As a former government annex, the building provides evidence of the construction of Australian 'shadow factories' for civilian manufacture of munitions for World War II.

The building also represents the development of new technology and innovations of the twentieth century for wartime factory, building and aircraft design. Significant Australian innovations in aircraft design were developed at this site for improved safety of Australian military aircraft, including Arthur Bishop's design of a rear landing wheel used in the Beaufort and Lincoln bombers. The building also demonstrates Australian wartime experimentation with previously little-used types of timber-framed building construction in order to conserve steel and other materials in high demand for the war effort.

Architecturally, the building demonstrates a rare surviving example of a semi-cylindrical or igloo-style building constructed during World War II. It represents the first known igloo-style building constructed by the significant Sydney plywood manufacturer Ralph Symonds using arches of laminated timber. The building is also believed to be the first large-scale building in Australia to use glue-laminated timber arches as its principal structural members. The building's construction demonstrates an early and innovative structural use of laminated timber to achieve the quick construction, efficient use of materials and wide spans needed for wartime factories at a time of materials and labour shortages.

The distinctive curved building form, robust industrial construction and large building footprint makes the building a landmark in the local area, which is highly visible from a number of surrounding vantage points in the streetscapes of Beaconsfield Street, William Street and William Lane. While possibly re-clad in corrugated metal, the building retains a high degree of integrity from its original 1940s construction. As one of a group of largely intact industrial buildings in the near vicinity constructed during World War II, it contributes to the industrial mid-twentieth century character of the area.

The building has research potential for its ability to yield information about Australian design and construction of semi-cylindrical huts, or igloo-style buildings, during World War II. This information is not readily available from other similar buildings because surviving igloo buildings from this period are rare locally and are potentially rare in New South Wales. As the first known example of its type of construction in Australia, the site also represents a benchmark in the evolution of timber-framed building construction, specifically the early use of

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glue-laminated timber as structural members for large-scale buildings.

The site may hold significance to former Australian military personnel for its connection to the manufacture of the Beaufort bomber used during World War II. As a major former employer in the local area when manufacturing aircraft components for the Australian Government, the building may have value to the community of former employees of National Motor Springs. The post-war association of this site with the tubular steel-framed furniture of NAMCO found in many Australian households during the second half of the twentieth century may hold meaning to some members of the community.

The former National Motor Springs annex forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The igloo building is of local heritage significance, and potentially of state heritage significance, in terms of its historical, association, aesthetic, research, rarity and representative values.

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Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

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were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Igloo building and war-time construction history:

The earliest form of igloo-style buildings, or semi-cylindrical huts, were developed during World War I. Known as Nissen Huts, these buildings were named after their inventor, a mining engineer of the British Army, Major Peter Norman Nissen.

Igloo-style buildings continued to be built during World War II to meet the wartime demands for manufacturing, aircraft and housing. The buildings were designed for the economic use of materials, mass production, portability and fast construction.

Igloo-style buildings that used timber rather than steel for framing were devised in America. In January 1941, the Cairns Post reported this new building material and noted that no glue-laminated arches had then been built in Australia (Cairns Post, 7 January 1941, p 2). This article also noted that the United States Forest Products Laboratory (USDA) had recently published a technical bulletin, enumerating the advantages of glue-laminated timber arches.

The concept of glue-laminating timber to form heavy structural members had been introduced to Australia by the CSIR as early as November of 1938 (Nolan 1994). However, its first recorded use was not until 1941 when short-span glue laminated beams were used in a store building designed by the architect, H. Garnet Alsop (Nolan 1994). Alsop designed a laminated timber beam using reconditioned kiln-dried hardwood that was found to be particularly useful for spanning large distances (Building, 24 October 1941, p 80). The firm of Ralph Symonds Pty Ltd was noted as making arches of laminated timber (Building, 24 September 1942, p 50-1).

The Commonwealth Department of Munitions was established in 1939. Before the war, it had been developing 'annexes' based on the British 'shadow factory' programme, whereby existing civilian firms were provided with buildings and machinery in semi-separate facilities ready to produce munitions when needed. These 'annexes' were built on land owned by private companies that were then leased to the Commonwealth. Alternatively, private companies operated the 'annexes' with their own equipment and staff on behalf of the Commonwealth. (D P Mellor, *The Role of Science and Industry*, p.30)

During World War II, the Australian government also established the Allied Works Council (AWC) to control the construction of defence projects for the Allied armies during the war. This council built thousands of defence buildings all over Australia, mostly in timber. The main building types they constructed including wool stores, sawtooth-roofed workshops and stores, aircraft hangars, arched stores and workshops, curved-roof inland stores and workshops with quadrangular roof trusses. (Nolan 1994)

Many of these buildings experimented with previously little-used types of timber-framed building construction because the war removed previous restrictions on timber design and construction in Australia and steel and other materials in high demand for the war effort needed to be conserved. (Nolan 1994)

One of these buildings constructed for the Allied Works Council as a government annex included the subject igloo building at National Motor Springs, built by Ralph Symonds. The subject annex appears to be the Allied Works Council's only glue-laminated arch building. Their subsequent arch storage buildings were all hand-nailed igloo structures. (Nolan 1994)

While the Allied Works Council abandoned glue-laminated arches, Ralph Symonds' successful experience with

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this building began a series of developments in arched industrial building forms. He constructed at least three more foundation arch buildings prior to the war's end, with one other known in Melbourne. (Nolan 1994)

Site history during World War II:

This subject building was purpose-built in 1941 as a government annex to manufacture aircraft undercarriages for the Beaufort bomber during World War II. The building was constructed as a large-span igloo-style building by Ralph Symonds Pty Ltd for the initial owner and prominent industrialist, Sir John Stanley Storey, his companies of National Motor Springs Ltd and National Securities Pty Ltd, and the Allied War Council. Ownership of the land during World War II was transferred to the Commonwealth of Australia.

Sir John Stanley Storey originally established National Motor Springs Pty Ltd in 1929 to manufacture automotive-parts. Storey was very interested in the most modern method of automotive component production and business management.

On 8 September 1936, the subject land comprising 3 acres 3 roods 12 perches on O'Riordan Street, Alexandria, were transferred to Sir John Stanley Storey, described in the land titles records as a company manager of Melbourne, Victoria (CT 4257 f 69).

By 24 July 1937, a number of other buildings had been constructed on this site (SMH, 24 July 1937 p 18).

On 5 November 1937, John Stanley Storey registered his company of National Securities Pty Ltd in New South Wales (ASIC Company name search, 11 September 2014). On the same day, the subject land was transferred to this company (CT 4257 f 69).

Due to a shortage of British industrial components, the Australian Government resolved to manufacture aircraft independently in Australia. This occurred at a time when the export of British components was restricted due to the British defeat in France.

Sir John Stanley Storey was appointed the director of the Beaufort aircraft construction programme by Essington Lewis, Director-general of the additional Department of Aircraft Production. Sir Storey sub-contracted to approximately six hundred firms across Australia, forming a network of sites to manufacture the bombers.

The subject igloo building was built for Sir Storey and the Allied Works Council as a government annex to manufacture the undercarriages for the Bristol Beaufort bomber. It formed part of a network of factories which produced components for seven sub-assembly workshops and, finally, the main assembly plants at Fishermens Bend in Victoria and at Mascot in Sydney. The railway workshops at Chullora undertook major sub-assembly of the fuselage and the fabrication of numerous parts.

Ralph Symonds constructed the building. Ralph Symonds (1895-1961) was an innovator with timber and a world authority on the use of laminated veneers and timbers. His products were used in major construction works throughout Australia during the 1940s and 1950s including the Myer Music Bowl, Glenbawn and Warragamba Dams. Ralph Symonds founded Standardised Furniture Co. at Marrickville in 1924, Panels Pty Ltd at Newtown in 1933 and Ralph Symonds Pty Ltd in 1942 (State Library of NSW, Ralph Symonds Ltd collection, Biographical Information). Ralph Symonds laminated timber was later used to finish the interiors of the Sydney Opera House.

The National Motor Springs Annex was the first building Symonds erected using arches of glue laminated timber (C Brown, *Driven by Ideas: The story of Arthur Bishop a great Australian inventor*, University of New South Wales Press, Sydney, 2003, p 14-5, 17). This building is also believed to be the first large-scale building in Australia to use glue-laminated timber as its principal structural members (Nolan 1994).

Laminated timber was cheaper than steel and allowed small sections of low grade local timber to be used when materials were in short supply and in high demand due to the war (Building, 24 September 1942, p 50-1). It also

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enabled provided greater flexibility for building forms. The arched form took advantage of the new laminated timber technology, minimised the materials required, and created large unobstructed spaces.

The manufacturing of these laminated arches was also efficient. The smaller sections of timber used to form larger members could be dried more quickly. Ralph Symonds developed air-driven jacks to press the arch laminates together. His work team could manufacture one rib every two hours. Quality-control was poor, meaning the butt joints often opened during pressing to leave gaps up to 10 millimeters. However, this did not appear to affect the performance of the subject building, which still stands with minimal maintenance. (Nolan 1994)

By mid-November of 1941, the igloo building was complete and operational. It was already producing hydraulic undercarriages for the Beaufort bomber when the Governor General, Lord Gowrie, visited the works at this time. A photograph of his visit was published on the front page of Army News (Army News, 27 Nov 1941, p 1).

The Beaufort bomber was a British design, which eventually evolved into the rugged Beaufighter, a night-fighter and fighter-bomber. The Beaufort bomber needed almost 2,000 modifications before the first Australian-made aircraft flew late in 1941.

Australian designer Arthur Bishop, associated with the Undercarriage Annex, devised a rear landing wheel which eliminated the dangerous shimmy of the rear wheel of the Beaufort when landing. A similar modification was made for the Lincoln bomber when manufacture was being arranged in Australia. (C Brown, Driven by Ideas, p 26, 32-41, 47-9)

At this Annex, National Motor Springs, without the advantage of data on manufacturing procedure or designs for tools, succeeded in meeting the requirements of tail-wheel struts and oleo legs for the Beaufort, and later for the Beaufighter and the Lincoln bomber, at a cost of about half the landed cost of the same components from the United States (Mellor 1958:392).

The land valuation of the larger site on 8 April 1943 recorded that it was then occupied by a brick and corrugated fibro factory and offices with a corrugated fibro roof. The building comprised two dressing rooms, shower room and lavatory, a fibro canteen and a fibro carpenters' shop (Valuer-General, Valuation List, Alexandria, SRNSW 19/8587, No 335). It is not clear which of these buildings represented the subject building. Nevertheless, the subject igloo building was recorded as constructed in 1943 located behind the main factory buildings in the aerial photograph of this year (1943 aerial photograph, SIX, LPI).

On 21 May 1943, the Commonwealth of Australia resumed the subject part of the site occupied by the undercarriage annex (CT 4257 f 69). A new certificate of title was issued to the Commonwealth of Australia for that land on 26 July 1944 (CT 5437 f 82).

By 1944, the annex was employing over 600 workers (C Brown, Driven by Ideas, p 21).

Post-war site history:

In November 1945 when the war ended, the Commonwealth Government announced that it would continue producing aircraft in its annexes including the one at National Motor Springs Ltd (SMH 17 Nov 1945, p 4).

After the war, National Motor Springs Pty Ltd extended its activities manufacturing furniture. In 1946, the company registered a large number of designs for furniture such as armchairs and lounge chairs, tables and tubular furniture (Search, Series A 1337, NAA).

On 19 October 1948, large stocks of aeroplane seats and other fittings worth £5,000 were destroyed by a fire at this plant. Two sheds were also badly damaged (SMH, 19 Oct 1948 p 3; Adelaide News, 19 Oct 1948, p 4).

Between 1950 and 1952, undercarriage production was transferred to the Commonwealth Aircraft Corporation at

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Lidcombe (NAA, NRS MP287/1, 5763).

On 15 June 1951, the government annex was leased to National Securities Pty Ltd (CT 5437 f 82). On 16 March 1953, the company applied to council for approval to retain and continue the use of the existing building at the rear of 52 O'Riordan Street (52 O'Riordan St, Street card, NSCA).

By 1956, the igloo building was in use by NAMCO Products Pty Ltd (1956 Building Surveyor sheet 23, COS). NAMCO, the abbreviated name for the National Art Metal Company, made two types of products: kitchenware and tubular steel-framed furniture. This furniture appears to have been produced in the annex for some years.

Ownership of the annex was finally transferred to National Securities Pty Ltd on 14 June 1957 (CT 5437 f 82).

By 1959, the main NAMCO works were located at Kirrawee (Women's Weekly, 9 Dec 1959, p 66).

The National Motor Springs Pty Ltd company name was changed to National Springs Pty Ltd on 13 July 1965 (CT 5437 f 82).

Themes:	National theme	State theme	Local theme
	3. Economy	Commerce	Warehouses
	7. Governing	Defence	Manufacturing aircraft parts
	3. Economy	Industry	Activities associated with the n
	3. Economy	Technology	machinery

Designer: H Garnet Alsop (laminated timber beam), Allied Works Council (architects and engineers)

Builder: Ralph Symonds

Year started: 1937

Year completed: 1941

Circa: Yes

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Physical description: The subject igloo building was constructed in 1941 as a government annex for National Motor Springs to manufacture aircraft undercarriages. While the site has a street address on O'Riordan Street, the subject building addresses Beaconsfield Street. It has little setback from the street boundary and the eastern side property boundary.

The igloo building comprises a large-span, timber-framed, semi-cylindrical structure of one storey with glue-laminated timber arch framework and corrugated metal cladding for the curved roof and vertical end walls. The apex of the roof has an elevated semi-circular skylight along the ridge for ventilation. The main curved roof is lifted on the east and west elevations for a horizontal band of windows. Windows have metal louvres.

The factory interior is one large uninterrupted space with no internal columns, high clearances under the arched roof, concrete slab floors and exposed curved roof structure. The arched structure provides no vertical side walls, only the north and south end walls. Partitions to the side enclose some administration rooms within the arched frame.

As documented in the 1994 architectural thesis by Gregory Nolan, the building's construction comprises a regular three-pin parabolic arch structure of 17 bays at 14 feet (4.3 metres) centres. Each arch spans 95 ft (29 metres). The ribs were butt-joint laminated on site from 29 layers of low-grade rimu, a New Zealand timber, using casein glues. The detailing in the remainder of the building is very simple. The purlins run simply-supported over the arches and are fixed with nail blocks. Bracing is also nailed hardwood. The end walls are framed with 10 x 3 ins (240 x 75 mm) solid hardwood at 9 ft (2.7 metres) centres. Nolan's 1994 measured drawings of the building are included in this inventory as images.

Earlier historical records indicate that the building may have originally been clad with corrugated asbestos fibre. With the possible exception of new cladding in a material consistent with its style of construction, the building appears largely intact externally.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Semi-cylindrical factory. Storeys: 1. Roof: Curved corrugated metal cladding. Façade: corrugated metal. Side/Rear Walls: corrugated metal.

Physical condition level: Fair

Physical condition:

Archaeological potential level: Not assessed

Archaeological potential Detail:

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Modification dates: Timeline of known dates for changes to the site:

8 September 1936

Ownership transfer of 3 acres 3 roods 12 perches on O'Riordan Street, Alexandria to John Stanley Storey, Melbourne, Victoria, company manager

24 July 1937

Records note buildings constructed in Alexandria in past 18 months include National Motor Springs Ltd

5 November 1937

Site purchased by National Securities Pty Ltd

20 December 1937

Valuation of land owned by National Securities Pty Ltd in O'Riordan Street, Alexandria, shows site is occupied by brick and factory and offices, with a fibro and glass roof

November 1941

Photograph of Governor General, Lord Gowrie, visiting the National Motor Springs Ltd, works producing hydraulic under carriages for Beaufort bombers published on front page of Army News

21 May 1943

Acquisition of part of site by Commonwealth of Australia with easements and right of way

1943

Igloo warehouse shown as constructed in aerial photo

26 July 1944

New certificate of title issued to Commonwealth of Australia for 2 roods 38 perches occupied by the igloo factory

19 October 1948

Large stocks of aeroplane seats and other fittings worth £5,000 destroyed by fire at the plant

1950-2

Undercarriage production transferred to Commonwealth Aircraft Corporation, Lidcombe

15 June 1951

Land leased to National Securities Pty Ltd

16 March 1953

Application for consent to retain use of existing building at rear and to continue existing work

1956

Igloo building used by NAMCO Products Pty Ltd

14 June 1957

Ownership transfer to National Securities Pty Ltd

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Recommended management: Retain and conserve the building.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

No vertical additions should be made to the building.

The original form, laminated timber structure and materials should be conserved and maintained.

Repairs should match existing materials as closely as possible, or where currently asbestos fibre, replaced with materials of a similar appearance and finish.

New uses for the building are to complement and enhance the internal and external industrial character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Purpose-built in 1941 as a government annex to manufacture aircraft undercarriages for the Australian military, this former National Motor Springs factory represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to Australian manufacturing of the Beaufort bomber, Beaufighter and Lincoln aircraft for World War II, and subsequently aircraft components and NAMCO furniture during peacetime. The building provides evidence of Australia's wartime industry and the formerly widespread engineering industry in Alexandria.

[Historical significance]

The scale of the building demonstrates the importance of the munitions and engineering industry for Sydney and Australia during the twentieth century and documents the growth of this industry to support the war effort. As a former government annex, the building provides evidence of the construction of Australian 'shadow factories' for civilian manufacture of munitions for World War II.

The building also represents the development of new technology and innovations of the twentieth century for wartime factory, building and aircraft design. Significant Australian innovations in aircraft design were developed at this site for improved safety of Australian military aircraft, including Arthur Bishop's design of a rear landing wheel used in the Beaufort and Lincoln bombers. The building also demonstrates Australian wartime experimentation with previously little-used types of timber-framed building construction in order to conserve steel and other materials in high demand for the war effort.

The former National Motor Springs annex forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

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Criteria b): The building has significant associations with Sir John Stanley Storey who established National Motor Springs and then oversaw its wartime role as a component manufacturer.

[Historical association

significance] As a purpose-built government annex for World War II munitions manufacturing, the building is also associated with the Australian manufacture of the Beaufort bomber for World War II, the Allied Works Council, and technical innovations in bomber and wartime building design.

The building construction also has significant associations with the significant Sydney plywood manufacturer, Ralph Symonds.

After the war, the building had associations with NAMCO (the National Art Metal Company) and the tubular steel-framed furniture made at this site during the 1950s.

Criteria c): Architecturally, the building demonstrates a rare surviving example of a semi-cylindrical or igloo-style building

[Aesthetic/

Technical significance] constructed during World War II. It represents the first known igloo-style building constructed by the significant Sydney plywood manufacturer Ralph Symonds using arches of laminated timber. The building is also believed to be the first large-scale building in Australia to use glue-laminated timber arches as its principal structural members. The building's construction demonstrates an early and innovative structural use of laminated timber to achieve the quick construction, efficient use of materials and wide spans needed for wartime factories at a time of materials and labour shortages.

The distinctive curved building form, robust industrial construction and large building footprint makes the building a landmark in the local area, which is highly visible from a number of surrounding vantage points in the streetscapes of Beaconsfield Street, William Street and William Lane. While possibly reclad in corrugated metal, the building retains a high degree of integrity from its original 1940s construction. As one of a group of largely intact industrial buildings in the near vicinity constructed during World War II, it contributes to the industrial mid-twentieth century character of the area.

Criteria d): Social significance requires further study to ascertain its value for the local community. The site may hold

[Social/Cultural

significance] significance to former Australian military personnel for its connection to the manufacture of the Beaufort bomber used during World War II. As a major former employer in the local area when manufacturing aircraft components for the Australian Government, the building may have value to the community of former employees of National Motor Springs.

The post-war association of this site with the tubular steel-framed furniture of NAMCO found in many Australian households during the second half of the twentieth century may hold meaning to some members of the community.

Criteria e): The building has research potential for its ability to yield information about Australian design and construction

[Research

significance] of semi-cylindrical huts, or igloo-style buildings, during World War II. This information is not readily available from other similar buildings because surviving igloo buildings from this period are rare locally and are potentially rare in New South Wales.

As the first known example of its type of construction in Australia, the site also represents a benchmark in the evolution of timber-framed building construction, in particular the early use of glue-laminated timber as structural members for large-scale buildings.

Criteria f): The building is rare as a surviving largely intact example of a semi-cylindrical or igloo-style building

[Rarity]

constructed during World War II. Surviving igloo buildings from this period are rare locally and are potentially rare in New South Wales.

The building is also rare as the first known example of its type constructed in Australia, as a large-scale timber-framed building using glue-laminated timber arches as its principal structural members, constructed by Ralph Symonds.

Criteria g): The building demonstrates a good and rare example of a semi-cylindrical or igloo-style building constructed

[Representative]

during World War II, and a government annex built specifically to manufacture aircraft components.

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Intactness/Integrity: Largely intact

References:	Author	Title	Year
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014
	Robertson & Hindmarsh Pty Ltd with 1	World Wars 1 & 2 survey of buildings, sites and cultural landsc	2006
	Stuart, I. M.	A preliminary account of prefabricated semi-cylindrical huts in	2005
	Mellor, D. P.	The Role of Science and Industry, Canberra, Australian War M	1958
	Clare Brown	Driven by Ideas: The Story of Arthur Bishop, a Great Australia	2003
	Town Planning Branch, City Engineer:	Civic Survey 1938-1950; Sheet 15 Alexandria East	1950
	Town Planning Branch, City Engineer:	City Building Surveyors Detail Sheets	1956
	Gregory Bernard Nolan	The Forgotten Long Span Timber Structures of Australia, A Th	1994

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage !		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	1		DP	33947

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014

Data updated: 27/07/2015

Status: Completed

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

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Image:



Caption: Eastern (side) and northern elevations of subject building viewed from Beaconsfield Street

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345abafb8b33d48459ca8a1dbbb4de89dc3.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345abafb8b33d48459ca8a1dbbb4de89dc3.JPG

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: North elevation of subject building facing Beaconsfield Street

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a5857746575b46d79dadde7623e6024b.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345a5857746575b46d79dadde7623e6024b.JPG

Item name: Former National Motor Springs igloo building including interiors

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Image:



Caption: Building interiors

Copy right: Knight Frank

Image by: Knight Frank

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3450e3ebcd1191a490bb5815e49f8110e31.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3450e3ebcd1191a490bb5815e49f8110e31.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: 1943 aerial showing the subject curved-roof building (on right) shortly after construction

Copy right: Lands and Property Information, SIX maps

Image by: RTA

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b16665d4f04c49e1832d9c5a0190ba03.jpg>

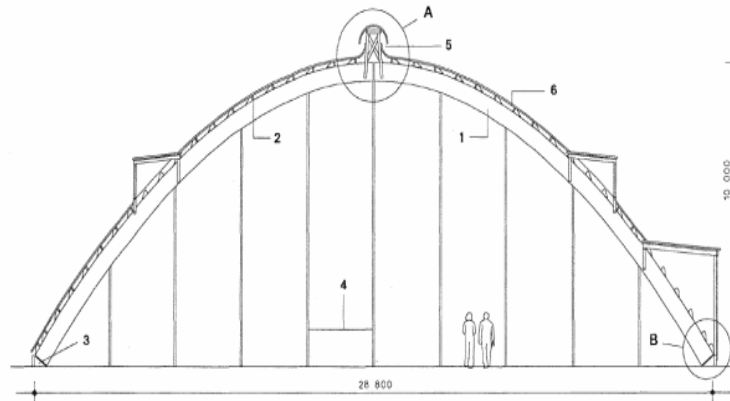
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345b16665d4f04c49e1832d9c5a0190ba03.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Transverse Section
Figure 47
Factory, National Springs, Alexandria

1. 595 x 100 glue laminated parabolic arch
2. 150 x 50 h/w purlins at 750 centres
3. concrete arch foundation
4. 240 x 75 h/w end wall wind posts
5. ventilator
6. sheet metal roofing

Caption: Transverse section of the igloo building, as recorded in the 1994 thesis by Gregory Nolan

Copy right: Gregory Nolan

Image by: Gregory Nolan

Image date: 01/10/1994

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345fd2058aba355423293e350340c503b0f.jpg>

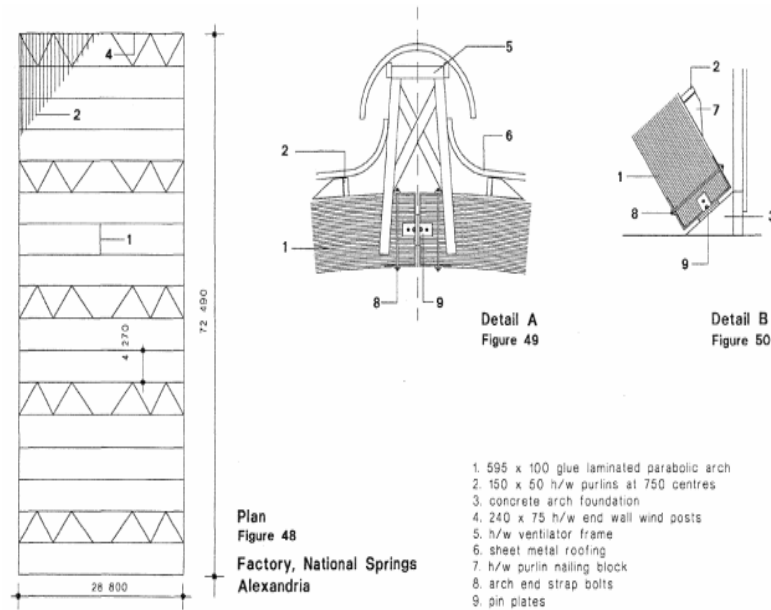
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Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Plan and construction details of the igloo building, as recorded in the 1994 thesis by Gregory Nolan

Copy right: Gregory Nolan

Image by: Gregory Nolan

Image date: 01/10/1994

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c6753a539b2a45e58179defdefaa9474.jpg>

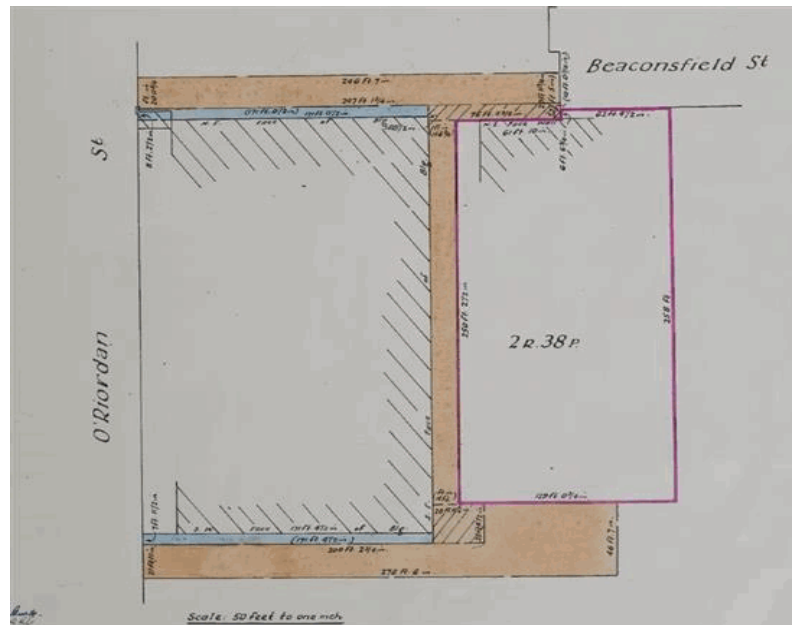
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Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: 1943 land title plan with the subject site outlined in red as the land resumed by the Commonwealth

Copy right: Land titles office

Image by: Land titles office (CT 5437 f 82)

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/3455c5784325330420a96cdaa630412431b.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test3455c5784325330420a96cdaa630412431b.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: 1956 detail sheet showing the subject building circled and surrounding industries

Copy right: City of Sydney archives

Image by: City Building Surveyors Department, City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3452b33b50f0584453db74d3c7226f37a04.png>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3452b33b50f0584453db74d3c7226f37a04.png

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Manufacturing in the subject Annex in 1942, showing the drilling of oleo cylinders (Brown 2003: 23)

Copy right: Clare Brown

Image by: Unknown

Image date: 01/01/1942

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345f7b6e3efb0c049a8b04c70e3e2cf34d8.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345f7b6e3efb0c049a8b04c70e3e2cf34d8.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: The Bristol Beaufort Bomber in circa 1940

Copy right: State Library of Queensland

Image by: John Oxley Library, State Library of Queensland

Image date: 01/01/1940

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a2513a2dda8f430580440946f935cd0e.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345a2513a2dda8f430580440946f935cd0e.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Bomber crew loading a Beaufort for a reconnaissance flight in 1943 (likely in Victoria)

Copy right: State Library of Victoria

Image by: State Library of Victoria (ID: 49314063)

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b9bcc63519644a6f8a4a7c5935d4d1d3.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345b9bcc63519644a6f8a4a7c5935d4d1d3.jpg

Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Beaufort bombers flying in formation in 1943 patrolling shipping areas

Copy right: State Library of Victoria

Image by: State Library of Victoria (ID: 49314065)

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34537bdefb5379c4717b19347b3cf3f02f0.jpg>

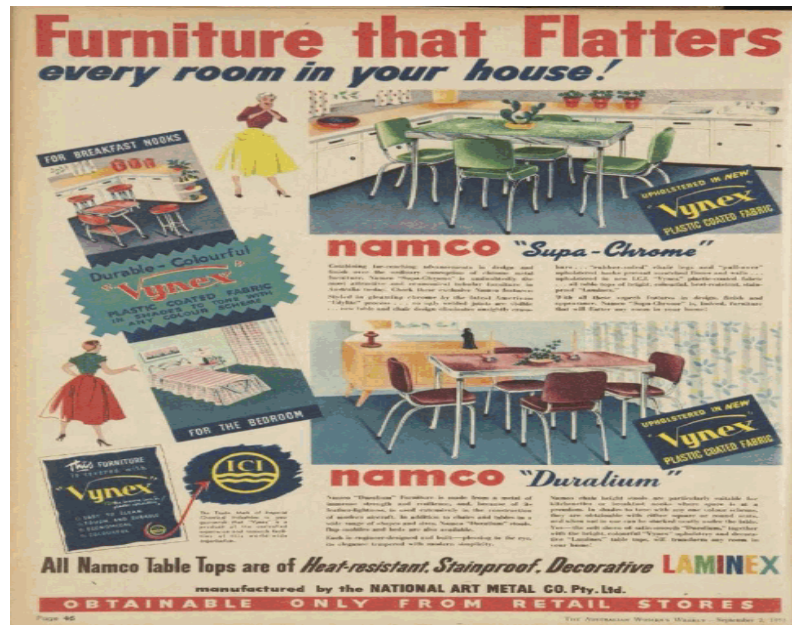
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Item name: Former National Motor Springs igloo building including interiors

Location: 52-54 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: A selection of NAMCO tubular steel furniture advertised in 1953 Women's Weekly

Copy right: National Library of Australia

Image by: Women's Weekly

Image date: 02/09/1953

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458bc6b329b5954639a8af933636f44600.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3458bc6b329b5954639a8af933636f44600.jpg

Inventory 19

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Address: 82 O'Riordan Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish: Alexandria

State: NSW

County: Cumberland

Other/former names: Doody Street Substation

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Utilities - Electricity

Category: Electricity Transformer/Substation

Owner: State Government

Admin codes:

Code 2:

Code 3:

Current use: Electricity substation

Former uses: Electricity substation

Assessed significance: Local

Endorsed significance:

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Statement of significance: Built in 1928, Electricity Substation No. 225 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

Aesthetically, the building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

Electricity Substation No. 225 represents a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, roof form concealed behind a parapet wall, decorative face brickwork, simple surfaces, emphatic entrance framed by bull-nose brick pilasters, a stepped ornamental lintel surmounting the entrance, prominent and decorative building signage, and string courses along the parapet wall. The building contributes to the streetscape and is a significant example of civic architecture in the area.

Electricity Substation No. 225 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No. 225 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's O'Riordan Street was almost exclusively occupied by industries during the first half of the twentieth century, predominantly for metals, machinery, textiles, printing, soap works and industrial gases in the immediate surrounds to the substation.

Electricity Substation No. 225 is of local heritage significance in terms of its historical, aesthetic and representative values.

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street. The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Substations history:

One of the major innovations in industry during the nineteenth century was the development of electricity as a power and lighting source, which rivalled and then replaced water and steam power. The mills and workshops of the earlier Industrial Revolution in Britain and North America were mainly water and steam powered, whereas Australia's twentieth century industrial buildings were powered by electricity.

As part of supplying electricity to Sydney's houses and industries for the first time, Sydney Council built Sydney's first power stations and substations during the first half of the twentieth century. Sydney Council, then known as Sydney Municipal Council or the Municipal Council of Sydney, was charged with supplying electricity to Sydney city and surrounding areas in 1896 through the law named the Municipal Council of Sydney Electric Lighting Bill passed on 16th October 1896. Electricity supply was managed through the council's department known by a number of names: the Electric Lighting Committee, the Electric Light Department and the Electricity Department from 1920 to 1935. From 1936 the electricity undertaking was named Sydney County Council when it was reformed as a separate authority as a result of the Gas & Electricity Act of 1935. The various names for the

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

council and subsequent electrical authority are recorded in the initials and building names inscribed in substation facades.

Sydney's first power station at Pyrmont began operating in 1904. The large network of substations were constructed in strategic locations to supply power from these power stations to individual customers and other electricity networks. Their specific purpose was to house machinery to convert high voltage electricity for industrial or domestic use. Substations were often erected in close proximity to factories to service their high energy demands. Consequently the number, concentration and location of substations provide markers of twentieth-century factories and industrial centres in the way that chimney stacks marked factories pre-dating electricity.

Alexandria demonstrates this pattern with its larger number of substations reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity.

Alexandria's O'Riordan Street was almost exclusively occupied by industries during the first half of the twentieth century, predominantly for metals, machinery, textiles, printing, soap and tallow works (beef by-products) and industrial gases in the immediate surrounds to the substation. By 1956, these surrounding industries included the Mooreland Metal Co. to the immediate north of the substation, R. S. Lamb and Co. to the south on the other side of the channel, and Brighton Soap Works, Bird Bros. and the large Commonwealth Industrial Gases site located on the opposite side of O'Riordan Street.

The period and location of surviving substations record the progressive extension of Sydney's electrical network from the centre of Sydney to surrounding areas, the scale and importance of this network, and the fundamental changes electricity brought for Sydney's growth, development and society. Sydney Municipal Council built its first substations at Town Hall, Taylor Square, Woolloomooloo and Ultimo, followed by Glebe, Newtown, Camperdown and surrounding areas. From 1904 to 1935, Sydney Council built more than 360 substations and almost 400 pole transformers throughout Sydney and surrounding suburbs. More continued to be built in the following decades. The Energy Australia (AusGrid) heritage and conservation register records that 33 of the surviving substations are located within the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier.

Each substation has its own number inscribed on the building facade, which reflects its role in the broader electrical network and generally the total number, sequence and period of construction, with some exceptions where disused numbers were reallocated. Most substations were constructed in established urban areas on a small portion of land acquired or subdivided specifically for this purpose. These buildings, while modest in scale and different in function to surrounding buildings, were designed and constructed to a good standard, in a style designed to harmonise with surrounding architecture, in order to reduce community fears or resistance to the incursion of this new technology and impacts on the appearance of streets.

The rise of electricity during the late nineteenth century, and in particular small motors for driving machinery and electrical lights, changed the configuration of industrial buildings and machinery. Electricity meant that factories could be designed with a more flexible layout because small electric motors eliminated the need for belt and shaft drives from the steam plant. Factory building design became less reliant on windows for natural light and gas lighting ventilation because of the advent of electric lighting. Electricity also created a new market for factories to produce the new consumer goods reliant on electric power, such as fridges, washing machines, telephones, stoves, ice cream, and the engineering for electric lights, trains and trams.

Site history:

The site was chosen for a substation during the first half of 1926 located within the property of R. S. Lamb & Co, a manufacturer of tallow and fertiliser and also a merchant for coal and timber. The site was eventually acquired by resumption and became the property of the Sydney Municipal Council in May 1927.

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

It is likely that this substation was intended to replace an existing pole transformer located in O'Riordan Street near Doody Street.

Work on the site began around September 1927. In the meantime, a temporary substation was put into service to reinforce supplies of electricity in the vicinity pending completion of the permanent installation.

The building for the permanent substation was completed during the second half of 1928 and the installation began operations before the end of that year.

Sydney County Council was the precursor to Energy Australia and Ausgrid, as the electricity authority by this time after these operations separated from Sydney Municipal Council.

In 1947 Sydney County Council was contacted by the accountant and auditor for R. S. Lamb & Co about the ownership of the substation site. This revealed that the company had never submitted a claim for payment following the land resumption by Sydney Municipal Council in 1927. The company immediately submitted a claim for £100, however, the Sydney County Council denied liability. Records do not indicate whether the company's claim was successful. (Pennington 2012)

Themes:	National theme	State theme	Local theme
	3. Economy	Technology	Electricity
	4. Settlement	Utilities	Electricity Substation

Designer: Sydney Municipal Council

Builder: Sydney Municipal Council

Year started: 1927

Year completed: 1928

Circa: No

Physical description: Substation No. 225 was built by Sydney Municipal Council in 1928 on the north bank of the Doody Street stormwater channel. The substation comprises a single-storey brick building contained under a skillion roof concealed behind a parapet wall. The parapet wall returns along the southern elevation fronting the Doody Street stormwater channel.

The building is constructed of tuck-pointed face brickwork on the street elevation and common bricks on other elevations. The front wall steps down in height to form the fence and entrance to the side transformer yard. A small set-back of the building from the street is paved in concrete and edged by a low brick wall.

The substation exhibits typical characteristics of the inter-war architectural period applied to a utilitarian building including the heavy geometric massing, roof form concealed behind a parapet wall, decorative face brickwork, simple surfaces, emphatic entrance and decorative features. Decorative elements include the bull-nose brick pilasters framing the entrance, a stepped ornamental lintel surmounting the entrance containing decorative substation signage and string courses along the parapet wall.

Original signage is integrated into the facade through relief lettering above the entrance, which records the origins of the building and the substation's number within Sydney's electricity network.

The off-centre position of the main entrance on the main front facade is unusual for inter-war substations of this kind. The entrance is, however, still located centrally within the street elevation when including the wall fronting the side yard.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war. Storeys: 1. Façade: Facebrick.

Physical condition level: Good

Physical condition:

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates:

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Unpainted brickwork should not be painted, rendered or sealed.

Decorative detailing, original signage and other original features of the building should be retained and conserved.

No vertical additions should be made to the building.

New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Criteria a): Built in 1928, Electricity Substation No. 225 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

[Historical significance]

Electricity Substation No. 225 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No. 225 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's O'Riordan Street was almost exclusively occupied by industries during the first half of the twentieth century, predominantly for metals, machinery, textiles, printing, soap works and industrial gases in the immediate surrounds to the substation.

Criteria b): The substation has significant associations with the Municipal Council of Sydney, who constructed the building as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936. It also has associations with the surrounding industries, in particular the tallow and fertiliser manufacturer and coal and timber merchant, R. S. Lamb & Co.

[Historical association significance]

Criteria c): The building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

[Aesthetic/ Technical significance]

Electricity Substation No. 225 is a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, roof form concealed behind a parapet wall, decorative face brickwork, simple surfaces, and emphatic entrance framed by bull-nose brick pilasters, a stepped ornamental lintel surmounting the entrance, prominent and decorative building signage and string courses along the parapet wall.

The building contributes to the streetscape and is a significant example of civic architecture in the area.

Criteria d): Social significance requires further study to ascertain its value to communities. The building may have value to community members with an interest in the history, buildings and technology for Sydney's electrification.

[Social/Cultural significance]

Criteria e): Electricity substation No. 225 may offer research potential into the evolution of technology for electricity supply and architectural design for substations in Sydney.

[Research significance]

Criteria f):
[Rarity]

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Criteria g): The building represents a good example of a substation from the inter-war period.

[Representative]

The substation forms part of a collection of extant substations, which together represent the growth of Sydney's electrical network and the major change that electricity brought for Sydney's growth, development and population during the twentieth century, in particular for the development of industry.

Of more than 360 originally built by Sydney Municipal Council from 1904 to 1930 in metropolitan Sydney, the current Energy Australia (AusGrid) heritage and conservation register records that 33 surviving substations are located in the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier.

Intactness/Integrity: Intact externally

References:	Author	Title	Year
	TZG Architects and Orwell & Peter Pl	Conservation Management Plan: Substation No. 6 and Undergr	2002
	James Pennington	Electricity Substations of the Sydney Municipal Council, p.97-!	2012
	Scott Cumming	Chimneys and Change: Post European Environmental Impact in	2004
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Alexandria Sydney	1890
	Higinbotham & Robinson	Waterloo Sydney	1890

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage !		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
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Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014

Data updated: 13/05/2015

Status: Completed

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Front elevation of the substation

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458c1a283462e3462b9053a5147f461cd4.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3458c1a283462e3462b9053a5147f461cd4.JPG

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Front and southern elevation of the substation in 2014

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/3452a1e501c968849fa98cf55655eb372c0.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test3452a1e501c968849fa98cf55655eb372c0.JPG

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Substation viewed from the north-west

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34596355b9fda104791b1351faac07d6f89.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test34596355b9fda104791b1351faac07d6f89.JPG

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: The substation in 1930 shortly after construction and before construction of the adjacent building

Copy right: Ausgrid

Image by: Ausgrid

Image date: 01/01/1930

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345139eb0a3264948ac9307869f41ac01dc.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345139eb0a3264948ac9307869f41ac01dc.jpg

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Substation (on right) and O'Riordan Street in 1936, viewed from the south-west

Copy right: State Library of New South Wales

Image by: Government Printing Office 1 - 29688

Image date: 15/10/1936

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34595614b08e2314e48898fcaf10b9566e3.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34595614b08e2314e48898fcaf10b9566e3.jpg

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: Substation in 1963, photographed when the road collapsed under a road-sweeping machine

Copy right: City of Sydney archives

Image by: City Engineers Photographic Negativerd CRS 48/3465

Image date: 24/06/1963

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c7e8d16994144214ae28e535f44eb57c.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345c7e8d16994144214ae28e535f44eb57c.jpg

Item name: Electricity Substation No. 225 including interiors

Location: 82 O'Riordan Street Alexandria 2015

Sydney

Image:



Caption: 1956 detail sheet showing subject substation and surrounding industries

Copy right: City of Sydney Archives

Image by: City Building Surveyors Department, City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c503c1e1193f4bda90166995359931bf.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345c503c1e1193f4bda90166995359931bf.jpg

Inventory 20

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Address: 38 Ralph Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish:

State: NSW

County:

Other/former names: Willow Kitchen Ware, Auschen Corporate Clothing

Area/group/complex:

Group ID:

Aboriginal area:

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Manufacturing and Processing

Category: Other - Manufacturing & Processing

Owner:

Admin codes:

Code 2:

Code 3:

Current use: Commercial, industrial

Former uses: Office, factory, warehouse

Assessed significance: Local

Endorsed significance:

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Statement of significance: Built in 1939 for the kitchenware manufacturers, Wilson Bros, this factory and office building represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to the Australian production of household goods, in particular the well-known Willow ware kitchen tins.

While altered and reduced in length, the building survives as the only remaining building erected for the New South Wales' factory for Wilson Bros at Alexandria which once extended to the surrounding land.

The building represents a good example of a large mid-twentieth century factory. It demonstrates the industrial building typology which contains administrative, manufacturing and power supply in distinctly different building forms, including the characteristic sawtooth-roof factory located behind a more architecturally distinctive office or showroom on the street frontage. The inclusion of a substation within the building form of the factory provides evidence of the high energy demands of the former factory and the influence of the expansion of Sydney's electrical network on factory design and operations during this period.

Architecturally, the two-storey office and showroom building is a representative example of the inter-war stripped classical style. The building exhibits typical characteristics of the style including face brickwork, symmetrical facade, strong piers emphasising vertical proportions, division of the facade into vertical bays, simple wall surfaces with minimal ornamentation and vertically-proportioned steel-framed windows.

The building contributes to the streetscape of Ralph Street. It forms one of a number of single and two-storey industrial buildings from the inter-war and post-war periods in the local area, which give Alexandria a distinct character.

The site may have social value for the community of former Wilson Bros workers. As the source of the widely-used Willow ware kitchen tins found in many Australian households from the 1930s to the 1980s, the site may hold significance to the Australian community.

The former Wilson Bros Willow Ware factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former Wilson Bros factory is of local heritage significance in terms of its historical, aesthetic and representative values.

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Site history:

Wilson Brothers constructed its New South Wales factory on this site in 1939 to manufacture its well-known Willow Ware goods of tinned kitchenware and other household items. The factory site originally extended across a larger site including land to the north and west of the current site, as shown in the 1956 detail survey.

The company known as Wilson Bros produced a wide range of tinned goods from the 1920s. Brothers Ralph and Richard Wilson originally formed their partnership in Victoria in 1887. They later formed the company Willow Ware for making tinned kitchenware, biscuit canisters and metal containers (<http://museumvictoria.com.au/collections/items/825577/barbecue-willow-sure-fire-aboriginal-motif-1970>). The firm of Wilson Bros Pty Ltd was registered in Victoria on 29 June 1915 (ASIC Company name search, 9 September 2014). The company later expanded to New South Wales.

Almost every Australian household from the 1930s until the 1980s would have owned or used Willow Ware tinware products. The lozenge-shaped Willow Ware trademark stamped on its products became familiar to most Australians. Today, many Australian households will still have at least one Willow Ware item stored in the cupboard.

The 1939 land valuation for the subject property records the construction of the factory on this site. The 9 March 1939 valuation indicated that a brick factory with a corrugated fibro roof and two galvanised iron sheds and offices with corrugated fibro roof had recently been built on this site (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 466). A certificate of title was issued to Wilson Bros Pty Ltd on 3 July 1940 after conversion from Old System title for the land covering 1 acre 3 roods 33½ perches (Certificate of Title 5152 f 8).

By the 1940s, the firm was manufacturing buckets, kitchen rubbish bins, domestic garbage bins, beach buckets, billy cans and baking dishes. As Australian lifestyles changed with greater leisure opportunities, Willow Ware expanded its range of products to include barbecues and cooler bricks for inserting into eskies.

The 1943 aerial photograph documents the buildings constructed on the factory site by this time, with the prominent 'Welcome to Willow' painted in large lettering across one of the sawtooth roofs (1943 Aerial photo SIX LPI).

By 1945, the workplace survey listed Wilson Bros Pty Ltd of 38-40 Ralph Street, Alexandria, in the business of tinware and galvanizing. It was recorded as using electrical machinery rated at 135 horse power and employing 91 workers by this time. (SRNSW 7/6847)

The 1949 aerial photograph records that the roof signage expanded to extend across all three sawtooth roofs to add 'The Home of Willow Kitchenware' and the lozenge-shaped company logo (1949 Aerial photo AO130, NSCA).

From the 1950s to the 1970s, a number of applications were submitted to alter the buildings. On 21 December 1951, Wilson Bros Pty Ltd proposed to erect a generating plant designed by architects Stafford Moor & Farrington. On 5 February 1960, Wilson Bros Pty Ltd applied to erect a mezzanine floor with works valued at £1,500, and then, on 15 September 1960, to erect an elevated floor worth £2,500. On 31 July 1962, the company proposed to extend the mezzanine floor with works at an estimated cost of £1,500. On 12 September 1962, they

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

applied to use the premises for manufacturing kitchenware and to add additional new staff amenities.

From 1966 to 1975, there were numerous applications from architect N Dellit followed by Victor Dellit for various alterations and additions. The most substantial were on 2 May 1974 for alterations and additions with works valued at \$130,000 and 14 March 1975 for alterations and additions to the office building with works valued at \$70,000 (38 Ralph St, Street Cards, NSCA).

In 2000, as part of the larger site redevelopment also including 26-36 Ralph Street and 15-21 Doody Street, South Sydney Council approved the demolition of the rear half of the factory building.

In 2000 Auschen Corporate Clothing applied to use the subject retained building in the south-east corner of the larger site for warehousing clothing, ancillary offices and showroom (DA 00714/00). Drawings submitted with this application include the building floor plan which record the presence of an internal substation located halfway along its eastern elevation at this time.

These changes to the building and surrounding sites are not shown in the 2003 aerial photograph. The approved demolition of the rear part of the building appears to have occurred in approximately 2004. The removal and redevelopment of this part of the building and the adjoining site of 34-36 Ralph Street first appears in the 2007 aerial photograph.

Themes:	National theme	State theme	Local theme
	3. Economy	Commerce	Warehouses
	3. Economy	Commerce	Factory
	3. Economy	Industry	Activities associated with the n

Designer: Stafford Moor & Farrington (generating plant/ substation), Dellit (1960s & 1970s additions)

Builder: Unknown

Year started:

Year completed: 1939

Circa: Yes

Physical description: The building was constructed in 1939 for manufacturing the household items of Willow Bros. The building comprises a two-storey office and showroom on the street frontage with attached factory to the rear, with a small landscaped setback from Ralph Street.

The office and showroom building is constructed of face brick walls and a pitched roof concealed behind a parapet wall. The brick factory building is contained under a long sawtooth roof with three ridge lines extending the length of the land parcel. The length of the sawtooth building was truncated in approximately 2004.

The office and showroom building is designed in the inter-war stripped classical style. It exhibits typical features of the style including face brickwork, symmetrical facade, strong piers emphasising vertical proportions, division of the facade into vertical bays, simple wall surfaces with minimal ornamentation and vertically-proportioned steel-framed windows.

First floor windows and openings are intact, apart from the addition of window-mounted air conditioning units. Some ground floor openings have been altered, including a new office entrance that has been inserted in the original vehicular opening at the north-eastern end of the street facade. Side walls have been rendered and painted, and some projecting brick piers along the north side wall partly-demolished for the adjacent vehicular access.

Historic records show that the factory building contains a substation along its north-eastern elevation.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual buildings. Style: Inter-war stripped classical. Storeys: Two (office) and one (factory). Façade: Face brick. Side/rear walls: Painted and rendered brick. Roof: Pitched behind parapet (office) and sawtooth (factory).

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Physical condition level: Good

Physical condition:

Archaeological potential level: Not assessed

Archaeological potential Detail:

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Modification dates: Timeline of known dates for changes to the site:

9 March 1939

Valuation list records a brick factory with corrugated fibro roof and galvanised iron sheds, plus offices with corrugated fibro roof, located on this site

3 July 1940

Certificate of title issued to Wilson Bros Pty Ltd after conversion from old system title

1943

Aerial photograph records constructed buildings with 'Welcome to Willow' painted on the roof

1945

Workplace survey listed Wilson Bros Pty Ltd of 38-40 Ralph Street, Alexandria, in the business of tinware and galvanizing, using electrical machinery rated at 135 hp, with 91 employees

1949

Aerial photograph shows expanded roof signage reading 'The Home of Willow Kitchenware Welcome to Willow'

21 December 1951

Application to erect building for generating plant by Wilson Bros Pty Ltd

5 February 1960

Application for mezzanine floor by Wilson Bros Pty Ltd worth £1,500

15 September 1960

Application for elevated floor by Wilson Bros Pty Ltd worth £2,500

31 July 1962

Application for extension of mezzanine floor by Wilson Bros Pty Ltd worth £1,500

12 September 1962

Application to use premises for manufacturing kitchenware plus additional new staff amenities

20 January 1966

Application by N Dellit to erect building for manufacturing homeware at rear of the premises

16 January 1967

Application by N Dellit for additions for manufacturing homeware

2 December 1970

Application by Victor Dellit for alterations and additions worth \$2,000

April 1974

Application by Victor Dellit for extensions

2 May 1974

Application by Willow Ware Pty Ltd for alterations and additions worth \$130,000

14 March 1975

Application by Victor Dellit for alterations and additions to office building worth \$70,000

19 April 2000

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

South Sydney Council approved redevelopment of 26-40 Ralph Street and 15-21 Doody Street, including demolition of some buildings and re-subdivision (U99-01288)

December 2004

Occupation certificate issued by private certifier for 36 Ralph Street redevelopment (V00/05743)

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Maintain or reinstate original architectural features of the former office and showroom building.

Remove air conditioning units from windows on street elevation.

Do not paint, render or seal face brick walls.

Consider new uses for the building that will re-use and expose its industrial features to retain its former industrial character as an integral part of the new use. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Built in 1939 for the kitchenware manufacturers, Wilson Bros, this factory and office building represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to the Australian production of household goods, in particular the well-known Willow ware kitchen tins.

[Historical significance]

While altered and reduced in length, the building survives as the only remaining building erected for the New South Wales' factory for Wilson Bros at Alexandria which once extended to the surrounding land.

The former Wilson Bros Willow Ware factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The buildings has significant associations with the kitchen ware manufacturers, Wilson Bros, as their New South Wales factory from the 1930s to the 1970s and the associated manufacturing of Willow ware kitchen tins and other products during this period.

[Historical association significance]

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Criteria c): The building represents a good example of a large mid-twentieth century factory. It demonstrates the industrial building typology which contains administrative, manufacturing and power supply in distinctly different building forms, including the characteristic sawtooth-roof factory located behind a more architecturally distinctive office or showroom on the street frontage. The inclusion of a substation within the building form of the factory provides evidence of the high energy demands of the former factory and the influence of the expansion of Sydney's electrical network on factory design and operations during this period.

[Aesthetic/
Technical
significance]

Architecturally, the two-storey office and showroom building is a representative example of the inter-war stripped classical style. The building exhibits typical characteristics of the style including face brickwork, symmetrical facade, strong piers emphasising vertical proportions, division of the facade into vertical bays, simple wall surfaces with minimal ornamentation and vertically-proportioned steel-framed windows.

The building contributes to the streetscape of Ralph Street. It forms part of a number of single and two-storey industrial buildings from the inter-war and post-war periods in the local area, which give Alexandria a distinct character.

Criteria d): Social significance requires further study to ascertain its value to communities. The site may have social value for the community of former Wilson Bros workers. As the source of the widely-used Willow ware kitchen tins found in many Australian households from the 1930s to the 1980s, the site may hold significance to the Australian community.

[Social/Cultural
significance]

Criteria e):
[Research
significance]

Criteria f): The building survives as the only remaining building erected for the Wilson Bros factory at Alexandria which once extended to the surrounding land.

[Rarity]

Criteria g): The building represents a good example of a large mid-twentieth century factory.

[Representative]

Intactness/Integrity: Externally intact with minor alterations

References:	Author	Title	Year
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014
	RTA	Aerial Photographs of Sydney May-June 1943	1943
	City of Sydney	Aerial Survey of the City of Sydney	1949
	City of Sydney/ City Building Survey	City Building Surveyors Detail Sheets	1956
	Scott Cumming	Chimneys and Change: Post European Environmental Impact in	2004
	Willow	Willow/ Wilson Brothers	

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
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Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014

Data updated: 15/05/2015

Status: Completed

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: Ralph Street elevation

Copy right: City of Sydney

Image by: City Plan Heritage and JCIS Consultants

Image date: 29/08/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34596c70ac074b14d9d9c6bc1a1adfeab96.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34596c70ac074b14d9d9c6bc1a1adfeab96.jpg

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: Facade detail

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345eb13ae68790f4137bb94a1eb45169121.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345eb13ae68790f4137bb94a1eb45169121.JPG

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: South-eastern and north-eastern elevations of the office on Ralph Street

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 05/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3459bd01b27278e4b9a812ca87d62924cd3.JPG>

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Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: Historic image of the operating Wilson Bros factory before subsequent alterations (undated)

Copy right: Willow

Image by: Willow

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34565f93be2900944ed93acd1265bc6f1d5.jpg>

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Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 1956 detail sheet showing the subject site, circled, and surrounding industries

Copy right: City of Sydney

Image by: City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/345e48cf7f85e77422ab024c7ff5f64bd85.jpg>

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Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 1943 aerial of Willow factory site at this time

Copy right: Lands and Property Information, SIX Maps

Image by: RTA

Image date: 01/01/1943

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3455e0d5e503f3241bdad6dbd9677bb32fa.jpg>

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Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 1949 aerial photo showing the expanded roof signage

Copy right: City of Sydney archives

Image by: City of Sydney

Image date: 01/01/1949

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3456242e355c53b4803b3502f562e45d596.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3456242e355c53b4803b3502f562e45d596.jpg

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 2003 aerial photograph showing the former factory with the current site annotated in blue

Copy right: City of Sydney

Image by: City of Sydney

Image date: 01/01/2003

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3452f4e76748d314d68bb57e6fde2596a4e.jpg>

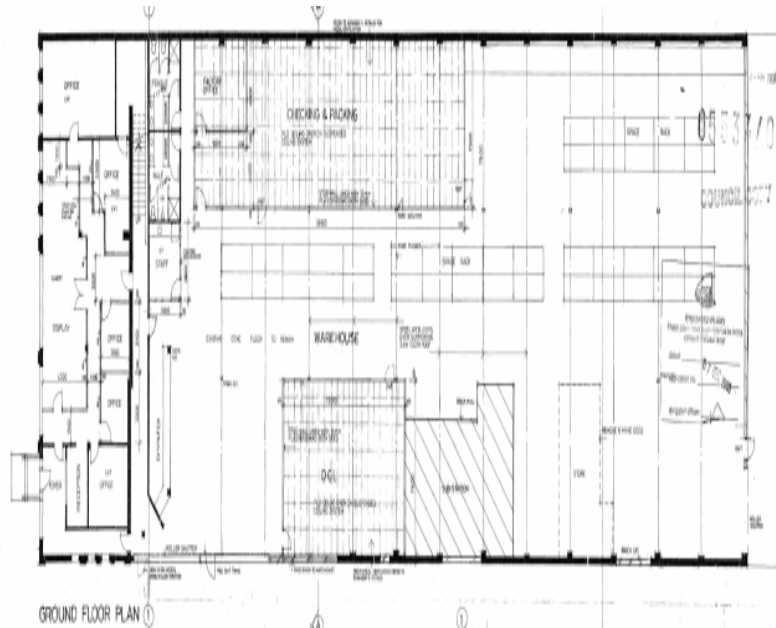
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3452f4e76748d314d68bb57e6fde2596a4e.jpg

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 2000 ground floor plan of the former office and factory building at this time

Copy right: Auschen Corporate Clothing

Image by: A. S. Chan & Associates

Image date: 01/02/2000

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345f493cba92dca4abc90e62e0c0a98540a.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345f493cba92dca4abc90e62e0c0a98540a.jpg

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 1960 Willow cooler bricks likely made at this factory, used to cool eskies

Copy right: Powerhouse Museum

Image by: Powerhouse Museum (<http://from.ph/288629>)

Image date: 01/01/1960

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345e2979553d0904ca7942c56522a0b656d.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345e2979553d0904ca7942c56522a0b656d.jpg

Item name: Former Wilson Bros Willow Ware factory including interiors

Location: 38 Ralph Street Alexandria 2015

Sydney

Image:



Caption: 1970s Willow Ware tinware and marketing

Copy right: Women's Weekly

Image by: Women's Weekly

Image date: 19/12/1973

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345d19e11221dde4dc9a0933d0d27c919c8.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345d19e11221dde4dc9a0933d0d27c919c8.jpg

Inventory 21

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Address: 212-214 Wyndham Street

Planning: Sydney South

Suburb/nearest town: Alexandria 2015

Local govt area: Sydney

Parish: Alexandria

State: NSW

County: Cumberland

Other/former names:

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Utilities - Electricity

Category: Electricity Transformer/Substation

Owner: Private - Corporate

Admin codes:

Code 2:

Code 3:

Current use: Commercial

Former uses: Electricity substation

Assessed significance: Local

Endorsed significance:

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Statement of significance: Built in 1917, Electric Light Substation No. 89 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

Aesthetically, the building demonstrates the characteristic modest overall form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

Electricity Substation No. 89 represents a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, symmetry of the main building, parapet to the gabled roof, face brickwork, original signage, pattern of small windows openings with brick arch lintels and an emphatic centrally-placed entrance.

The building contributes to the streetscape and is a significant example of civic architecture in the area. The building's conversion to offices and some earlier alterations have retained its architectural integrity as a recognisable former substation.

Substation No. 89 is also rare in the locality as an example of a two-storey substation and the oldest known surviving in Alexandria. The different form and earlier period of the building compared to other substations in the local area reflect its additional original functions to accommodate workers and storage, mostly on the second level.

Substation No. 89 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Substation No. 89 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Wyndham Street contained a number of industries during the first half of the twentieth century, as well as housing to the north near Alexandria Park.

Electric Light Substation No. 89 is of local heritage significance in terms of its historical, aesthetic, rarity and representative values.

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Historical notes of provenance: Early development of the locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Substations history:

One of the major innovations in industry during the nineteenth century was the development of electricity as a power and lighting source, which rivalled and then replaced water and steam power. The mills and workshops of the earlier Industrial Revolution in Britain and North America were mainly water and steam powered, whereas Australia's twentieth century industrial buildings were powered by electricity.

As part of supplying electricity to Sydney's houses and industries for the first time, Sydney Council built Sydney's first power stations and substations during the first half of the twentieth century. Sydney Council, then known as Sydney Municipal Council or the Municipal Council of Sydney, was charged with supplying electricity to Sydney city and surrounding areas in 1896 through the law named the Municipal Council of Sydney Electric Lighting Bill passed on 16th October 1896. Electricity supply was managed through the council's department known by a number of names: the Electric Lighting Committee, the Electric Light Department and the Electricity Department from 1920 to 1935. From 1936 the electricity undertaking was named Sydney County Council when it was reformed as a separate authority as a result of the Gas & Electricity Act of 1935. The various names for the council and subsequent electrical authority are recorded in the initials and building names inscribed in substation facades.

Sydney's first power station at Pyrmont began operating in 1904. The large network of substations were constructed in strategic locations to supply power from these power stations to individual customers and other electricity networks. Their specific purpose was to house machinery to convert high voltage electricity for industrial or domestic use. Substations were often erected in close proximity to factories to service their high energy demands. Consequently the number, concentration and location of substations provide markers of twentieth-century factories and industrial centres in the way that chimney stacks marked factories pre-dating electricity.

Alexandria demonstrates this pattern with its larger number of substations reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity.

Alexandria's Wyndham Street contained a number of industries during the first half of the twentieth century. By 1956, these surrounding industries included the Hollywood Textile Co. to the immediate south, the National Biscuit Co. to the east and W. Cooper Carrier opposite, as well as housing, mostly terraced rows to the north.

The period and location of surviving substations record the progressive extension of Sydney's electrical network from the centre of Sydney to surrounding areas, the scale and importance of this network, and the fundamental changes electricity brought for Sydney's growth, development and society. Sydney Municipal Council built its first substations at Town Hall, Taylor Square, Woolloomooloo and Ultimo, followed by Glebe, Newtown, Camperdown and surrounding areas. From 1904 to 1935, Sydney Council built more than 360 substations and almost 400 pole transformers throughout Sydney and surrounding suburbs. More continued to be built in the following decades. The Energy Australia (AusGrid) heritage and conservation register records that 33 of the surviving substations are located within the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier, including this Substation No. 89.

Each substation has its own number inscribed on the building facade, which reflects its role in the broader electrical network and generally the total number, sequence and period of construction, with some exceptions

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

where disused numbers were reallocated. Most substations were constructed in established urban areas on a small portion of land acquired or subdivided specifically for this purpose. These buildings, while modest in scale and different in function to surrounding buildings, were designed and constructed to a good standard, in a style designed to harmonise with surrounding architecture, in order to reduce community fears or resistance to the incursion of this new technology and impacts on the appearance of streets.

The rise of electricity during the late nineteenth century, and in particular small motors for driving machinery and electrical lights, changed the configuration of industrial buildings and machinery. Electricity meant that factories could be designed with a more flexible layout because small electric motors eliminated the need for belt and shaft drives from the steam plant. Factory building design became less reliant on windows for natural light and gas lighting ventilation because of the advent of electric lighting. Electricity also created a new market for factories to produce the new consumer goods reliant on electric power, such as fridges, washing machines, telephones, stoves, ice cream, and the engineering for electric lights, trains and trams.

Site history:

The land for this substation was acquired in mid 1916. The building was constructed and equipped by early 1917.

As well as transforming mains electricity to low-voltage for use in the immediate area, the building was also designed to accommodate personnel working on the mains and as a store for their construction materials. These facilities occupied the rear portion of the ground floor, the entire top floor and the remainder of the substation site.

Likely during the 1920s, the roller shutter opening in the front wall of the building was enlarged to allow installation of a large induction voltage regulator. This resulted in the removal of the leading-in block and the decorative lintel bearing the Sydney Municipal Council monogram and the substation number.

During the early 1950s, the transformers were moved outside of the switch room within the building to a new wire mesh enclosure on the opposite side of the driveway leading to the rear yard.

In 1996 the electrical load of the substation was transferred to a new small kiosk-type substation in the forecourt of the existing building. The depot facilities were also relocated and the substation decommissioned at that time.

In September 2012 the property was sold and subsequently converted for use as offices.

(Pennington 2012: 45, 276)

Themes: National theme

4. Settlement

3. Economy

State theme

Utilities

Technology

Local theme

Electricity Substation

Electricity

Designer: Sydney Municipal Council

Builder: Sydney Municipal Council

Year started: 1917

Year completed: 1917

Circa: No

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Physical description: Former Electric Light Substation No. 89 was built by Sydney Municipal Council in 1917. The substation comprises a two-storey brick building contained under a gabled roof with a parapet wall facing the street.

This simply detailed, purpose-designed and built substation from the inter-war period exhibits typical characteristics of inter-war architecture applied to a utilitarian building including the heavy geometric massing, symmetry of the main building, parapet to the gabled roof, face brickwork, original signage, pattern of small window openings with multi-paned sashes, brick arch lintels on the side wall, and an emphatic centrally placed entrance. The recessed rendered section of the street facade, pilasters between the bank of three windows on the upper level, and documented former decoration over the entrance demonstrate some classical references typical of a number of inter-war styles.

A large identity plaque surmounts the main entrance. Some of the lettering and other original decoration around this entrance has been removed and the entrance door replaced.

The two-storey scale and building form is rare for substations in the local area, which reflects its additional original functions to also accommodate workers and storage, mostly on the second level. The larger sash windows and loading dock with attached hoist located on the upper level of the side northern elevation reflect the original use of the upper level for workers and storage. By comparison, the smaller elevated windows on the ground floor of the same elevation reflect the design of this level for mostly containing the substation machinery.

The building's conversion to offices and some earlier alterations have retained its architectural integrity as a recognisable former substation.

The former side transmission yard with its ancillary buildings of the same period and materials are set back from the street.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war. Storeys: 2. Facade: Face brick and render. Side/Rear walls: Unpainted brick. Roof: Gabled parapet.

Physical condition level: Good

Physical condition:

Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates: Timeline of known dates for changes to the site:

1920s

Roller shutter opening in the front wall of the building enlarged, resulting in the removal of the leading-in block and decorative lintel bearing the Sydney Municipal Council monogram

1997 (approx)

Building decommissioned and replaced by small kiosk-style unit constructed in close proximity for supply of low-voltage electricity

2012

Substation adaptively reused as commercial premises

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

Archival and photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

No vertical additions should be made to the building.

Face brickwork, original signage, windows, openings, hoist and other original building features should be conserved and maintained.

New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities.

Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management:	Management category	Management name
	Statutory Instrument	List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Criteria a): Built in 1917, Electric Light Substation No. 89 represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.

[Historical significance]

Substation No. 89 is rare in the locality as an example of a two-storey substation and the oldest known surviving in Alexandria. The different form and earlier period of the building compared to other substations in the local area reflect its additional original functions to accommodate workers and storage, mostly on the second level. The surviving hoist is evidence of the building's original storage function.

Substation No. 89 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Substation No. 89 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Wyndham Street contained a number of industries during the first half of the twentieth century, as well as housing to the north near Alexandria Park.

Criteria b): The substation has significant associations with the Municipal Council of Sydney, who constructed the building as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936.

[Historical association significance]

Criteria c): The building demonstrates the characteristic modest overall form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

[Aesthetic/Technical significance]

Substation No. 89 represents a good example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of this architectural period applied to a utilitarian building including the heavy geometric massing, symmetry of the main building, parapet to the gabled roof, face brickwork, original signage, pattern of small window openings with brick arch lintels and an emphatic centrally placed entrance.

The building contributes to the streetscape and is a significant example of civic architecture in the area. The building's conversion to offices and some earlier alterations have retained its architectural integrity as a recognisable former substation.

Criteria d): Social significance requires further study to ascertain its value to communities. The building may have value to community members with an interest in the history, buildings and technology for Sydney's electrification.

[Social/Cultural significance]

Criteria e): The building may offer research potential into the evolution of architectural design for substations in Sydney, and specifically those custom-designed to accommodate workers and storage as part of supplying electricity to Sydney's suburbs.

[Research significance]

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Criteria f): Substation No. 89 is rare in the locality as an example of a two-storey substation and the oldest known surviving in Alexandria. The different form and earlier period of the building compared to other substations in the local area reflect its additional original functions to accommodate workers and storage, mostly on the second level.

[Rarity]

Criteria g): The building represents a good example of a substation from the inter-war period.

[Representative]

The substation forms part of a collection of extant substations, which together represent the growth of Sydney's electrical network and the major change that electricity brought for Sydney's growth, development and population during the twentieth century, in particular for the development of industry.

Of more than 360 originally built by Sydney Municipal Council from 1904 to 1930 in metropolitan Sydney, the current Energy Australia (AusGrid) heritage and conservation register records that 33 surviving substations are located in the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier, including this substation.

Intactness/Integrity: Largely intact externally

References:	Author	Title	Year
	James Pennington	Electricity Substations of the Sydney Municipal Council, pp.45	2012
	RTA	Aerial Photographs of Sydney May-June 1943.	1943
	City of Sydney	Aerial Survey of the City of Sydney	1949
	City of Sydney/ City Building Surveyors	City Building Surveyors Detail Sheets	1956
	Scott Cumming	Chimneys and Change: Post European Environmental Impact in	2004
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Alexandria Sydney	1890
	Higinbotham & Robinson	Waterloo Sydney	1890
	TZG Architects and Orwell & Peter Pl	Conservation Management Plan: Substation No. 6 and Undergr	2002

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage	1	2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	1		DP	585736

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014 Data updated: 13/05/2015 Status: Completed

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Image:



Caption: Former substation in 2014 following its conversion to offices

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 01/04/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b317ea0b2abe4db3afa275dfb6f1fdeb.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345b317ea0b2abe4db3afa275dfb6f1fdeb.JPG

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Image:



Caption: Street elevation showing the side transmission yard and ancillary buildings

Copy right: City of Sydney

Image by: City Plan Heritage and JCIS Consultants

Image date: 21/08/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b1a56dbedaf2430a8be05694f34b32f1.jpg>

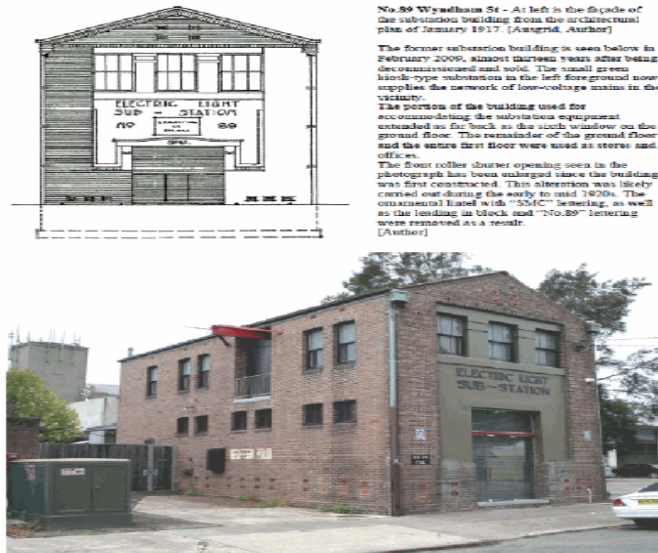
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345b1a56dbedaf2430a8be05694f34b32f1.jpg

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Image:



Caption: Original architectural drawing and 2009 photo contained in the 2012 Pennington publication

Copy right: James Pennington

Image by: James Pennington

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/345b192640844704852b20a893a0a9c72d1.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test345b192640844704852b20a893a0a9c72d1.jpg

Item name: Former Electric Light Substation No. 89 including interiors

Location: 212-214 Wyndham Street Alexandria 2015

Sydney

Image:



Caption: 1956 detail sheet showing subject substation and surrounding industries

Copy right: City of Sydney

Image by: City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c8b33a80445847018874561b21899d5a.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345c8b33a80445847018874561b21899d5a.jpg

Inventory 22

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Address: 1B Booth Street

Planning: Sydney South

Suburb/nearest town: Annandale 2038

Local govt area: Sydney

Parish: Alexandria

State: NSW

County: Cumberland

Other/former names: SP0003, SPS 3

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: Matching the State Heritage Register listing, as described in the Sydney Local Environmental Plan

Item type: Built

Group: Utilities - Sewerage

Category: Other - Utilities - Sewerage

Owner: State Government

Admin codes:

Code 2:

Code 3:

Current use: Sewage pumping station

Former uses: Sewage pumping station

Assessed significance: State

Endorsed significance: State

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Statement of significance: Built in 1904 by the Department of Public Works, this sewage pumping station represents a period of major improvement to public infrastructure in the inner city areas of Sydney around the turn of the century. The construction of this structure as one of originally twenty purpose-built sewage pumping stations provides evidence of a significant government initiative aimed at improving public health and living conditions in Sydney following the outbreaks of typhoid between the 1870s and 1890s and the bubonic plague in 1900.

The pumping station, and associated construction of the Southern Outfall Sewer ten years earlier, demonstrates significant advancements in sewage management technology by ending the discharge of sewage into the harbour. These changes constituted major improvements to the services and the environment in the inner city at the turn of the century which supported the residential housing and subsequent development of industries in the area.

This sewage pumping station represents a fine example of small-scale industrial building designed in the Federation Queen Anne style, which displays a combination of superior utilitarian design, construction and craftsmanship. The building demonstrates typical features of this architectural style including face brick walls, slate roof with terracotta ridge capping, front-facing gable with timber louvred vents and timber-framed casement windows with multi-paned top lights. The pumping station provides evidence of the importance of Federation-period public utilities through its overall design quality and craftsmanship, such as the stone dressings and tuck-pointed brickwork. The significance of the place is enhanced by the intactness of the original lifting crane and timber gates. The quality of design of the superstructure by the Department of Public Works reflects the body of work emanating from the then Government Architect, Walter Liberty Vernon.

The pumping station is technically significant for its continuous functioning for over a century as a low-level sewage pumping station, as originally designed and constructed, apart from minor mechanical and electrical modifications. It has educational and interpretation potential to reveal information about the development of sewage pumping engineering and architectural tastes from a period when utilitarian buildings were given as much careful attention as public buildings.

This sewage pumping station forms one of a group of surviving sewage pumping stations built between 1902 and 1904 by the Department of Public Works comprising a mechanical substructure and a superstructure of a small single-storey Federation building. It is rare as part of Sydney's network of first generation low-level sewage pumping stations which served the historically significant Southern Outfall Sewer, and the only first generation station which has its original lifting crane intact.

As infrastructure required to support the densely-developed housing and industry of the inner city, this sewage pumping station forms part of one of the largest known collections of industrial and warehouse buildings in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The sewage pumping station is of local and state heritage significance in terms of its historical, aesthetic, technical, rarity and representative values.

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Historical notes of provenance: This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Site history:

The subject sewage pumping station was constructed prior to 1904 by the Department of Public Works as one of twenty low-level sewage pumping stations constructed at this time.

In 1859 Sydney's sewerage system consisted of five outfall sewers which drained into Sydney Harbour. By the 1870s, the Harbour had become grossly polluted. The nearby abattoir at Glebe Island was a major polluter. Towards the end of the nineteenth century, Sydney's intensified development, growing population and combined system for stormwater and sewage disposal contributed to severe public health crises. Outbreaks of Enteric Fever (Typhoid) plagued Sydney from the 1870s to 1890s. The bubonic plague spread to Sydney in 1900.

In response to these issues, the NSW Government created the Sydney City and Suburban Health Board to investigate an alternative means of disposing of the City's sewage. This led to the construction of two gravitation sewers in 1889 by the Public Works Department, including the northern sewer, known as the Bondi Ocean Outfall Sewer, and the southern sewer which drained to a sewage farm at Botany Bay.

A number of low-lying areas around the harbour could not use gravity to drain into the new outfall sewers and continued to drain to the old City Council harbour sewers. Low-level pumping stations were needed to collect the sewage from these areas and pump it by means of additional sewers, known as rising mains, to the main gravitation system.

The first comprehensive low-level sewage system was developed in the early twentieth century when the Public Works Department constructed a group of twenty low-level sewage pumping stations around the foreshores of the inner harbour. These sewage pumping stations were handed over to the Metropolitan Board of Water Supply and Sewage in 1904. The subject sewage pumping station in Annandale was built as part of this system.

A 1903 newspaper article from the Sydney Morning Herald reported the construction of these sewage pumping stations, which were then described as 'nearing completion'. The sewage pumps were designed and constructed by the Clyde Engineering Company and contained electric motors produced by Westinghouse. The pumping

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

stations consisted of three wells which were 20-30 feet deep, one used as a machinery chamber and the other two as receptacles for sewage. The article also described the construction the brick building over the machinery chamber as 'in no way suggestive of a sewage pumping station'. The pumping stations were fitted with electric lights and lined with opalite tiles. (SMH, 17 August 1903, p8)

The improvements made to the sewage system during this period dramatically improved the living conditions for city workers and residents by ending the discharge of sewage into the harbour and moving sewage away from industry and settlements.

Works were undertaken prior to 1913 which involved the replacement of the original plunger pumps and the DC current.

The 1943 and 1949 aerial photographs show the subject sewage pumping station and the surrounding dense pattern of residential development mixed with large-scale industrial buildings. The building lies to the north of the former Alexandra Hospital for Children also shown in the 1956 detail sheet.

Most of the mechanical and electrical components of the sewage pumping station were upgraded during the 1970s. The slate roof was replaced between 2003 and 2007 and the timber double doors have been replaced with a roller shutter.

Themes:	National theme	State theme	Local theme
	4. Settlement	Utilities	Sewage pumping station

Designer: New South Wales Public Works Department (Government Architect, Walter Liberty Vernon)

Builder: New South Wales Public Works Department

Year started: 1902 **Year completed:** 1904 **Circa:** No

Physical description: Sewage Pumping Station No 3 was constructed by the New South Wales Public Works Department in 1904 on the site adjacent to the Johnsons Creek stormwater channel in Annandale. The pumping station consists of two distinct parts: a concrete substructure which houses the machinery and sewage chambers and a superstructure which comprises a single storey brick building contained under a half-gabled slate roof.

The building was designed in the Federation Queen Anne style. It exhibits typical features of this architectural style applied to a utilitarian building including face brick walls, slate roof with terracotta ridge capping, front-facing gable with timber louvred vents and timber-framed casement windows with multi-paned top lights. The roof features exposed eaves with timber sarking boards. The walls are dark red-brown tuck-pointed face brick in English bond with a splayed brick plinth and engaged brick piers capped with rubbed sandstone. Windows feature rock-faced sandstone sills and lintels. The stormwater drainage comprises galvanised steel quadrant eaves gutters and a cast iron downpipe. The site contains an original wall-mounted lifting crane and timber gates at the entrance.

Records from circa 2000 indicate that the interior of the building comprise rendered walls which simulate ashlar coursing and a ceiling lined with tongue and groove boarding. The substructure is divided into a machinery well containing two vertical spindle centrifugal pumps, each direct coupled to electric motors. Adjacent are two sewage wells and an inlet well. The walls are finished to match the superstructure.

Most of the mechanical and electrical components of the sewage pumping station were upgraded in the 1970s. The slate roof cladding replaced the earlier corrugated iron roof cladding between 2003 and 2007. The timber double doors have been replaced with a roller shutter.

Category: Infrastructure - sewer. Style: Federation Queen Anne. Storeys: One. Roof: Half-gabled. Walls: Face brick and sandstone.

Physical condition level: Good

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

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Physical condition: Largely intact and in good condition. Exposed tuck pointing has weathered. Stone sills are moderately weathered.

Archaeological potential level: High

Archaeological potential Detail: Archaeological potential to reveal details of the concrete construction of the substructure.

Modification dates: Pre-1913
Original plunger pumps and DC current replaced

1970s
Most mechanical and electrical components upgraded

2003-2007
Former corrugated iron roof was re-clad with slates

Others
Timber double doors on the front elevation replaced with a roller shutter

Recommended management: Retain and conserve the sewage pumping station.

Manage the place and its significant components in accordance with the Heritage Council State Owned Heritage Asset Management Guidelines and the Minimum Standards of Maintenance and Repair in the NSW Heritage Regulations.

Where works are not exempt, obtain necessary approvals from City of Sydney in accordance with Sydney Water environmental impact assessment guidelines.

A Conservation Management Plan or heritage assessment, as well as Heritage Impact Statement should be prepared prior to any major works being undertaken on the site.

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes. Copies of the archival record are to be lodged with Sydney Water Archives, City of Sydney and the Heritage Division of the Office of Environment and Heritage.

Do not paint, render or seal face brick walls and sandstone finishes.

Timber-framed windows, slate roof, half hipped roof, original lifting crane and other original features and structures should be conserved and maintained.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Item name: Sewage Pumping Station No.3 including interiors

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Criteria a): Built in 1904 by the Department of Public Works, this sewage pumping station represents a period of major improvement to public infrastructure in the inner city areas of Sydney around the turn of the century. The construction of this structure as one of originally twenty purpose-built sewage pumping stations provides evidence of a significant government initiative aimed at improving public health and living conditions in Sydney following the outbreaks of typhoid between the 1870s and 1890s and the bubonic plague in 1900.

[Historical significance]

The pumping station, and associated construction of the Southern Outfall Sewer ten years earlier, demonstrates significant advancements in sewage management technology by ending the discharge of sewage into the harbour. These changes constituted major improvements to the services and the environment in the inner city at the turn of the century which supported the residential housing and subsequent development of industries in the area.

The pumping station provides evidence of the importance of Federation-period public utilities through its overall design quality and craftsmanship such as the stone dressings and tuck-pointed brickwork. It also demonstrates the growth and expansion of municipal services during the early twentieth century.

As infrastructure required to support the densely-developed housing and industry of the inner city, this sewage pumping station forms part of one of the largest known collections of industrial and warehouse buildings in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The sewage pumping station is associated with the Department of Public Works which was responsible for the large scale upgrade of the sewage system in the late nineteenth century and early twentieth century. The pumping station is also associated with the Clyde Engineering Company which designed and installed the sewage pumps, and Westinghouse who provided the motors for the sewage pumps.

[Historical association significance]

Criteria c): This sewage pumping station represents a fine example of small-scale industrial building designed in the Federation Queen Anne style, which displays a combination of superior utilitarian design, construction and craftsmanship. The building demonstrates typical features of this architectural style including face brick walls, slate roof with terracotta ridge capping, front-facing gable with timber louvred vents and timber-framed casement windows with multi-paned top lights.

[Aesthetic/ Technical significance]

The significance of the place is enhanced by the intactness of the original lifting crane and timber gates.

The quality of design of the superstructure by the Department of Public Works reflects the body of work emanating from the then Government Architect, Walter Liberty Vernon.

The pumping station is technically significant for its continuous functioning for over a century as a low-level sewage pumping station, as originally designed and constructed, apart from minor mechanical and electrical modifications.

Criteria d): Social assessment requires further study to ascertain its value for the local community.

[Social/Cultural significance]

Criteria e): The site has educational and interpretation potential to reveal information about the development of sewage pumping engineering, and architectural tastes, from a period when utilitarian buildings were given as much careful attention as public buildings.

[Research significance]

Criteria f): The sewage pumping station is rare as part of Sydney's network of first generation low-level sewage pumping stations which served the historically significant Southern Outfall Sewer, later the Southern and Western Suburbs Ocean Outfall Sewer. It is also rare as the only first generation station which has its original lifting crane intact.

[Rarity]

Item name: Sewage Pumping Station No.3 including interiors

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Sydney

Criteria g): The site represents a good example of a low-level sewage pumping station from the Federation period.
[Representative]

Intactness/Integrity: Largely intact. Pumps and motors have been replaced.

References:	Author	Title	Year
	Graham Brooks and Associates	Sydney Water Heritage Study	1996
	Edward Higginbotham & Associates	Heritage Study of the Upper Nepean Scheme	1992
	Sydney Water	Sydney Water Section 170 Register record, Sewage Pumping S	
	Heritage Division, Office of Environm	State Heritage Register record, Sewage Pumping Station 3, rec	
	RTA	Aerial photographs of Sydney May-June 1943	1943
	City of Sydney	1949 Aerial survey of the City of Sydney	1949
	City of Sydney	City Building Surveyors Detail Sheet	1956
	Sydney Morning Herald, 17 August 19	Low-level sewage system	1903

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	3		DP	211162

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing:	Name	Title	Number	ListingDate
		Heritage Act - State Heritage Register	01343	18/11/1999
		Heritage Act - s.170 NSW State agency heritage r		01/01/2000
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014

Data updated: 27/04/2015

Status: Completed

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Image:



Caption: Front (north-eastern) elevation of the sewage pumping station building

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 17/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34590a86c1721f249f6a0449d2f8472e626.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34590a86c1721f249f6a0449d2f8472e626.JPG

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Image:



Caption: South-western elevation of the sewage pumping station building

Copy right: City of Sydney

Image by: City Plan Heritage and JCIS Consultants

Image date: 08/11/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a329758c349e4f5690484da471575f00.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345a329758c349e4f5690484da471575f00.jpg

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Image:



Caption: Section of the Johnsons Creek stormwater channel adjacent to the subject sewage pumping station

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 17/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3453635e49081ba4af8b880a0f471b9fa08.JPG>

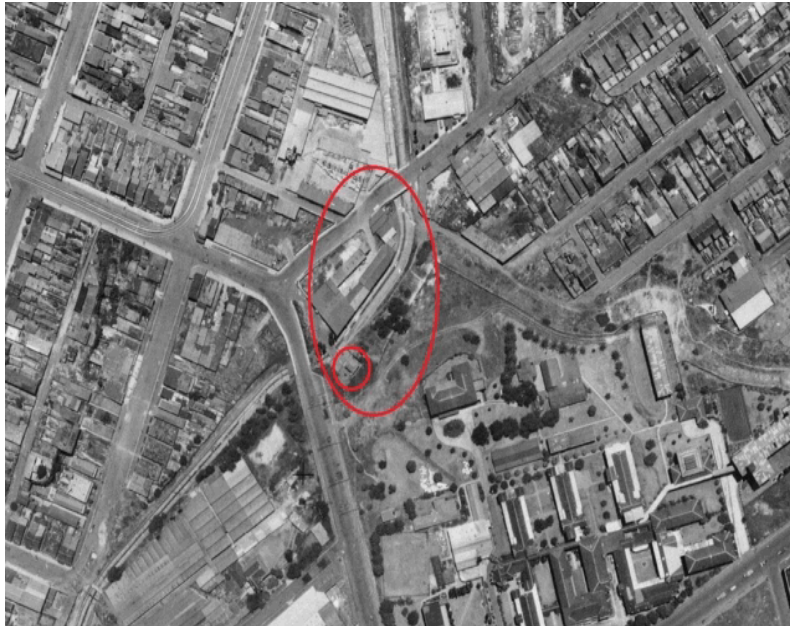
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3453635e49081ba4af8b880a0f471b9fa08.JPG

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Image:



Caption: 1949 aerial showing the site circled with the inner circle indicating the building location

Copy right: City of Sydney Archives

Image by: City of Sydney

Image date: 15/12/1949

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34533f35c0a68e84194b18a031708fb9b67.jpg>

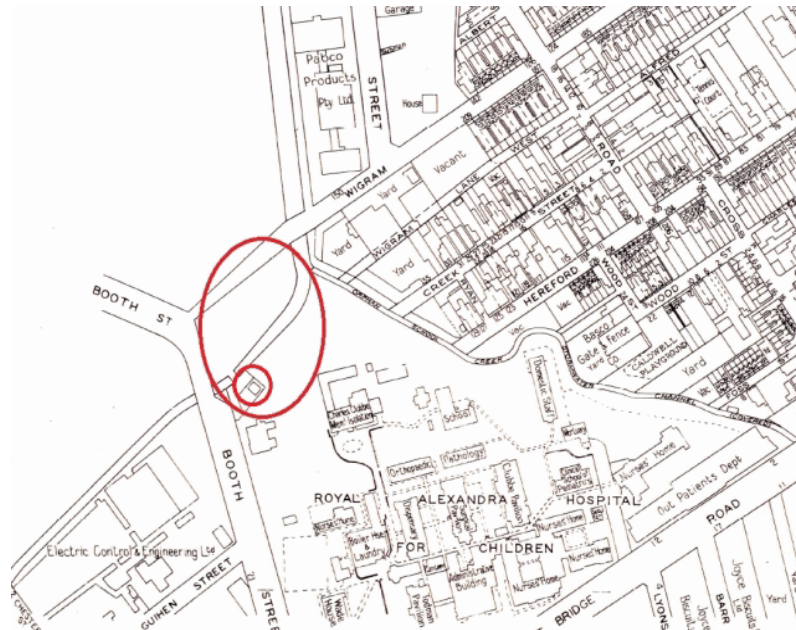
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34533f35c0a68e84194b18a031708fb9b67.jpg

Item name: Sewage Pumping Station No.3 including interiors

Location: 1B Booth Street Annandale 2038

Sydney

Image:



Caption: 1956 detail sheet showing the site circled with the inner circle indicating the building location

Copy right: City of Sydney Archives

Image by: City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458c530fa56fba4997a493bb7f246be94f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3458c530fa56fba4997a493bb7f246be94f.jpg

Inventory 23

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Address: 6-10 Mallett Street

Planning: Sydney South

Suburb/nearest town: Camperdown 2050

Local govt area: Sydney

Parish: Petersham

State: NSW

County: Cumberland

Other/former names:

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Commercial

Category: Warehouse/storage area

Owner: Multiple Owners

Admin codes:

Code 2:

Code 3:

Current use: Commercial offices

Former uses: Warehouse

Assessed significance: Local

Endorsed significance:

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

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Statement of significance: Built in approximately 1924 as a furniture repository for major Sydney retailers, Grace Bros, this building represents the industrial development of Camperdown during the first half of the twentieth century. It is historically significant for its connection to the twentieth century growth of Sydney's retail industry, in particular relating to furniture. As the most intact of two former Grace Bros repositories on Mallett Street, the building provides evidence of the success, scale and expansion of the Grace Bros retail empire during the 1920s, one of Sydney's earliest major department stores.

Architecturally, the building demonstrates a representative example of a purpose-designed warehouse from the inter-war period. It exhibits typical features of this period applied to a utilitarian building including the heavy geometric massing, symmetrical facades, face brick materials, rendered lintels, regular pattern of window openings, pilasters on the main street frontage, emphatic cornice, hipped roof concealed behind a parapet wall, and prominent rooftop tower.

The imposing form of the building extending across the full width of the block and the prominent corner tower add to the building's landmark qualities in the local neighbourhood. The building makes an important contribution to the streetscapes of Mallett, Isabella and Mason Streets and is visible in the round from a number of near and distant vantage points in surrounding streets.

The building design also likely represents the work of architects, D.T. Morrow & Gordon, who designed the adjoining furniture repository at 47-71 Pyrmont Road and a number of buildings for Grace Bros including the Grace Bros Emporium on Broadway and Grace Hotel in central Sydney.

The adaptive reuse of the building as offices during the 1980s retained the external integrity of the building. It survives as the most intact of two buildings originally constructed as furniture repositories for Grace Bros during the 1920s on Mallett Street.

For its association with the significant employer of the time, Grace Bros, the building may have value to the community of former Grace Bros workers involved in its furniture removals and storage operations from the 1920s to the 1960s.

The building forms part of one of the largest known collections of industrial and warehouse buildings in Australia, which records Sydney's rich industrial past as one of only two historic industrial heartlands in Australia. This collection of industrial and warehouse buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former Grace Bros Repository is of local heritage significance in terms of its historical, aesthetic, associations and representative values.

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Historical notes of provenance: Early development of locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The inner-city suburb of Camperdown forms part of the 240 acre estate granted to Governor Bligh in August 1806. Bligh named the area Camperdown in memory of a 1797 naval battle. The grant extended from the junction of Orphan School Creek and Johnston's Creek in the north, and across Parramatta Road to Cook's River Road. A model farm was initially established on the grant. In 1841 the Bligh estate was subdivided as O'Connell Town on Cook's River Road and Camperdown on Parramatta Road.

The University of Sydney was incorporated in 1850 and Edmund Blackett's Great Hall opened in 1859. The northern area of the university was built on the former farm known as Grose Farm, comprising 30 acres leased to Lieutenant-Governor Francis Grose in 1792. By 1802 the land was in use as a government experimental farm. The whole block of land between Parramatta, City and Missenden Roads was named after this farm.

In 1868 a public meeting held in Sydney decided to erect a permanent memorial to commemorate the "providential escape of Her Majesty's son at Clontarf in March 1868". In 1873 12 acres of the university paddock, intended for use as Wesleyan College, were chosen as the site for a memorial hospital. Opened in 1882, the hospital was named Prince Alfred Hospital.

Mallett Street was named after an early mayor of Camperdown Council, C. S. Mallett, who was a strong supporter of ratepayers in the area.

(Pollon, 1988, pp.47-48)

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Grace Bros history:

Grace Bros represents one of Sydney's earliest major department stores, which was first established by English immigrant brothers, Joseph Neal Grace and Edward Albert Grace, in 1885 at Broadway. It began as a modest retail drapery venture of these two brothers.

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Over 25 years, Grace Brothers expanded their Broadway retailing outlet. Between 1897 and 1904 the Model Store was built on the western corner of Bay Street and Parramatta Road. Between 1909 and 1929 the Moxham Store was built on the site directly opposite on the eastern corner of Bay Street and Parramatta Road. The twin clock towers of these two buildings, crowned by matching globes, became one of Sydney's well-known landmarks.

Grace Bros' retail empire continued to expand through Chippendale, Camperdown, Glebe and central Sydney from the late nineteenth century until the 1930s. Grace Bros purchased other sites or buildings within the area. In 1904 they built an electric power generating station in Grose Street. They also opened a clothes manufacturing factory in Knox Street, Chippendale, where they also fitted upholstery and made mattresses and picture frames. In the 1910s Grace Bros diversified into furniture removals and storage by purchasing or building stores in Camperdown and Forest Lodge.

Grace Bros was a major employer and a major commercial enterprise, which continues today under the name Myer.

(City Plan Heritage, 2008, p 26)

Site history:

Major Sydney retailer Grace Bros diversified into furniture removals and storage in the 1910s. Grace Bros used a number of buildings in the vicinity of Mallett Street as furniture repositories. The building at 10 Mallett Street was purpose-built by Grace Bros as a furniture repository between 1921 and 1924. It was numbered as the fifth of the Grace Bros repository buildings in the 1956 building survey map.

Grace Bros removal service was established in 1911. It became an important and highly visible part of the company's business portfolio. Grace Bros' 1923 furniture catalogue stated that the company specialised in interstate removals by road, rail or sea. The numerous catalogues produced in the 1920s illustrate the huge range of furniture and services offered by the company, which boasted 3000 employees by 1923. The general catalogue of that year illustrated a pharmacy, hairdresser and portrait photography services. The 1927 furniture catalogue showed colour images of the showroom floor with furniture extending across 3.5 acres. (Sydney Living Museums, <http://sydneylivingmuseums.com.au/stories/sydneys-home-furnishing-stores-1890-1960>, accessed 20 March 2015)

In early 1911, Grace Bros purchased a furniture and storage company in Mallett Street, Camperdown, previously owned by Vintner & Co (Brash 1985). Furniture was stored at this premises in Mallett Street and nearby.

Grace Bros Limited applied to council on 23 August 1920 to build a 'new building (furniture repository) (114 x 75')' at Mallett Street, on the corner of Mason & Isabella Streets. It was followed on 31 May 1921 by an application for a sprinkler tank (Street Cards, NSCA). The 1921 Assessment book recorded Grace Bros Ltd as the owner of vacant land between Mason and Isabella streets (1921 Camperdown Assessment book, No 319, NSCA).

A new certificate of title was issued to Grace Bros Limited on 1 May 1923 for the land of 10 Mallett Street between Mason Street and Isabella Street (CT 3447 f 51). The 1924 Assessment book documented the construction of the subject building since the last assessment in 1921. These records showed that Grace Bros Ltd had constructed 6-10 Mallett Street, then described as a five room, five storey brick store with an iron roof (1924 Camperdown Assessment book, No 323, NSCA).

An application on 27 February 1928 by Grace Bros Limited for a 'new building (furniture repository)' listed in the street cards should not be confused with this site (Mallett Street cnr Layton St & Mason & 45/61 Pyrmont Bridge Road (Grace Bros), Street Cards, NSCA).

The repository continued in use for many years. On 17 December 1959, D R Martin proposed to install

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

mechanical ventilation on the fourth floor at an estimated cost of £900 (10 Mallett Street, Street Cards, NSCA). The removals and transport division of Grace Bros Limited moved to Lidcombe in December 1970 (Brash 1985).

The property at 10 Mallett Street was transferred to Brambles Holdings Ltd on 16 August 1984 (CT 3447 f 51). This was followed by a number of applications to convert parts of the property to offices (6-10 Mallett Street, Street Cards, NSCA). On 14 October 1988, the property was transferred to Desane Properties Pty Ltd (CT 3447 f 51). From this time, the property has largely been used as offices.

Architectural history:

It is likely that the building was designed by D.T. Morrow & Gordon because of the similarity in design, period, use and owner to the adjacent former Grace Bros repository from 1928 designed by this firm. This practice designed a number of buildings for Grace Bros.

In 1887, Morrow worked as an architect in George Street, Newtown. By the turn of the century Morrow had designed a number of city and suburban works. He was also an Alderman of Redfern Municipal Council for some years. In 1900, he entered in partnership again with William De Putron who had become the chief draftsman in the office of Robertson & Marks. In 1909, Morrow hired his nephew P.J. Gordon as a pupil. In 1922, the name of the firm was altered to Morrow De Putron & Gordon. Following the resignation of De Putron due to ill health, the name again changed to Morrow & Gordon Architects in 1925. After Morrow resigned, Gordon became the senior partner in 1932, however the firm retained the same name until 1992. During the boom years the partnership carried out a large quantity of work employing at one time nearly 30 draftsmen in the office. Notable buildings designed by the firm include the Grace Brothers Emporium on Broadway, AWA Building and the Grace Building at the corner of York, King and Clarence Streets (AIA, Morrow biography).

Themes:	National theme	State theme	Local theme
	3. Economy	Industry	Warehouses
	5. Working	Labour	Activities associated with work
	3. Economy	Commerce	Warehouses

Designer: DT Morrow & Gordon (attributed)

Builder: Unknown

Year started: 1921

Year completed: 1924

Circa: Yes

Physical description: The building was constructed in approximately 1924 as a repository for Grace Bros. The site fronts Mallett Street and extends to Mason Street to the north and Isabella Street to the south. The repository comprises a five-storey brick building contained under a hipped roof concealed behind a parapet wall.

The repository was constructed in the inter-war period. It exhibits typical features of this period applied to a utilitarian building including its heavy geometric massing, hipped roof concealed behind a parapet, symmetrical facades, face brick materials contrasting with rendered lintels, alternating square and rectangular openings, pilasters on the main street frontage and an emphatic cornice below the parapet. The brick rooftop tower on the south-west corner contains arched openings. This feature may have been designed to accommodate a water tower. Loading docks are still visible on the Isabella Street elevation. The building name "Grace Bros Repository" is inscribed on the Mallett Street parapet.

The former repository was adaptively reused for offices in the 1980s and the window frames replaced. This conversion maintained the external integrity of the building.

Internally, the roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war warehouse. Storeys: Five. Facade and rear/side walls: Face brick.

Physical condition level: Good

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Physical condition:

Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates: Early 1911

Grace Bros purchased a furniture and storage company in Mallett Street, Camperdown, owned by Vintner & Co

23 August 1920

Application by Grace Bros Limited for 'new building (furniture repository) (114 x 75')'

31 May 1921

Application by Grace Bros Limited for sprinkler tank

1921

Assessment book shows Grace Bros Ltd as owner of land between Mason and Isabella streets

1 May 1923

Certificate of title issued to Grace Bros Limited for land in Mallett Street between Mason and Isabella Streets

1924

Assessment book shows Grace Bros Ltd as owner and occupier of 6-10 Mallett Street, then described as a store of five storeys and five rooms built of brick with an iron roof

17 December 1959

Application by D R Martin to install mechanical ventilation on 4th floor worth £900

December 1970

Removals and transport division moved to Lidcombe

16 August 1984

Brambles Holdings Ltd purchased the site

23 August 1988

Application by Lester Firth & Associates to refurbish warehouse for use as offices

14 October 1988

Desane Properties Pty Ltd purchased the site

13 September 1989

Westpac Banking Corporation proposed an office fitout for level 4 at an estimated cost of \$40,000

8 November 1990

Australia Youth Hostels propose fitout as offices with works valued at \$10,000

23 November 1990

Application by Desane Properties Pty Ltd for office fitout on third floor at an estimated cost of \$10,000

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Do not paint, render or seal face brickwork.

Face brick finishes, rendered lintels, window openings, pilasters, parapet wall, cornice detailing, rooftop tower and other original building features should be maintained and conserved.

New uses for the building are to complement and enhance the internal and external industrial character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Built in approximately 1924 as a furniture repository for major Sydney retailers, Grace Bros, this building represents the industrial development of Camperdown during the first half of the twentieth century. It is historically significant for its connection to the twentieth century growth of Sydney's retail industry, in particular relating to furniture. As the most intact of two former Grace Bros repositories on Mallett Street, the building provides evidence of the success, scale and expansion of the Grace Bros retail empire during the 1920s, one of Sydney's earliest major department stores.

The building forms part of one of the largest known collections of industrial and warehouse buildings in Australia, which records Sydney's rich industrial past as one of only two historic industrial heartlands in Australia. This collection of industrial and warehouse buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The building has significant associations with Grace Bros, one of Sydney's earliest major department stores, from the 1920s to the 1960s.

[Historical association significance] The building design is likely associated with architects, D.T. Morrow and Gordon, who designed the adjoining furniture repository at 47-71 Pyrmont Road in 1928, together with a number of buildings for Grace Bros including the Grace Bros Emporium on Broadway and Grace Hotel in central Sydney.

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Criteria c): Architecturally, the building demonstrates a representative example of a purpose-designed warehouse from the inter-war period. It exhibits typical features of this period applied to a utilitarian building including the heavy geometric massing, symmetrical facades, face brick materials, rendered lintels, regular pattern of window openings, pilasters on the main street frontage, emphatic cornice, hipped roof concealed behind a parapet wall, and prominent rooftop tower.

[Aesthetic/
Technical
significance]

The imposing form of the building extending across the full width of the block and the prominent corner tower add to the building's landmark qualities in the local neighbourhood. The building makes an important contribution to the streetscapes of Mallett, Isabella and Mason Streets and is visible in the round from a number of near and distant vantage points in surrounding streets.

While adaptively reused as offices, the building retains external integrity. It survives as the most intact of two buildings originally constructed as furniture repositories for Grace Bros in the 1920s on Mallett Street.

Criteria d): Social significance requires further study to ascertain its value to communities. For its association with the significant employer of the time, Grace Bros, the building may have value to the community of former Grace Bros workers involved in its furniture removals and storage operations from the 1920s to the 1960s.

[Research
significance]

Criteria f): The former Grace Bros repository is the most intact example of the pair of Grace Bros furniture repositories constructed on Mallett Street during the 1920s.

[Rarity]

Criteria g): The former Grace Bros repository is a representative example of an inter-war warehouse and the buildings constructed for the growth of the Grace Bros retail empire.

[Representative]

Intactness/Integrity: Externally intact.

References:	Author	Title	Year
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Camperdown. Sydney	1890
	John Sands	Sydney Directories	1890
	Australian Institute Of Architects, NSW	Architects Biographical Information; David Thomas Morrow F	2013
	D.T. Morrow & Gordon	Pymont Bridge Rd and Mallett St Camperdown (Grace Bros. I	1928
	City Plan Heritage	Heritage Impact Statement, 22-24 City Road, Chippendale	2008
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014
	City of Sydney	Assessment Books, 1921 and 1924	1921
	Nicholas Brash	The Model Store 1885-1985, Grace Bros: 100 years serving Sy	1985

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	3		DP	72951

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

AMG zone:

Easting:

Northing:

Listing: Name

Title

Number

ListingDate

City of Sydney Industrial and Ware Heritage study

Data entry: Data first entered: 05/08/2014

Data updated: 11/05/2015

Status: Completed

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Former Grace Bros repository viewed from Parramatta Road

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 08/11/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34559672d4108b3473ba552d03bdcb43319.jpg>

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Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Former Grace Bros repository showing Isabella Street corner

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3453734038609f847d4ab6dbf8ec4da0d9c.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3453734038609f847d4ab6dbf8ec4da0d9c.JPG

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:

1912
3 1/2 ACRES OF FURNITURE

LET GRACE BROS. REMOVE YOU

GRACE BROS. PTY. LTD. 623

MORE CARE
LESS COST

TO ANY PART
of THE WORLD

WE SPECIALISE IN INTERSTATE REMOVALS

To the Householder, removing is usually a worrying and costly matter. It entails several days' preparation, and also many more arranging things in order. You can avoid all this trouble and expense by entrusting your removal to us. We have a staff of specialists who will Pack, Remove and Unpack all your effects with the utmost care and attention. Distance is no bar to our Service. We have reliable agents everywhere, and our plant consists of the most up-to-date appliances, combined with the latest method for safe and rapid transit of your goods. If you contemplate removing, whether it be in the Metropolitan Area, Country, Interstate, or Oversea, we will be pleased to submit Estimates Free.

An Appreciation
Podolski,
Wentworth, Sydney.
Dear Sir,
All the packing of furniture, china, etc., that was left for removal by the Grace Bros. in 1912, was remarkably well done.
The manager of your Removal Department proved to be the most efficient and reliable in the country, and they had never been moved, since as well as of them, I shall be only too pleased to recommend your firm at any time, as we had very good results.
Yours truly,
E. de CHAIR.

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GRACE BROS. PTY. LTD. 6 BROADWAY, SYDNEY Phone: M 6506

Caption: 1912 advertisement for Grace Bros removals service

Copy right:

Image by: Nicholas Brash, The Model Store, p 194

Image date: 01/01/1912

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3450abb918a92514de084eecdcd51515c7e.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3450abb918a92514de084eecdcd51515c7e.jpg

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Grace Brothers removal vans in 1913

Copy right:

Image by: Nicholas Brash, The Model Store, p 196

Image date: 01/01/1913

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345038e6dd200514e0f97707b5a3cea2d97.jpg>

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Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney



Caption: 1948 civic survey showing a five-storey building occupied by Grace Bros on the subject site

Copy right: City of Sydney archives

Image by: 1938-1950 Civic Survey, City of Sydney

Image date: 01/01/1948

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34530e445983e7243e2aa863b2f31cffe57.jpg>

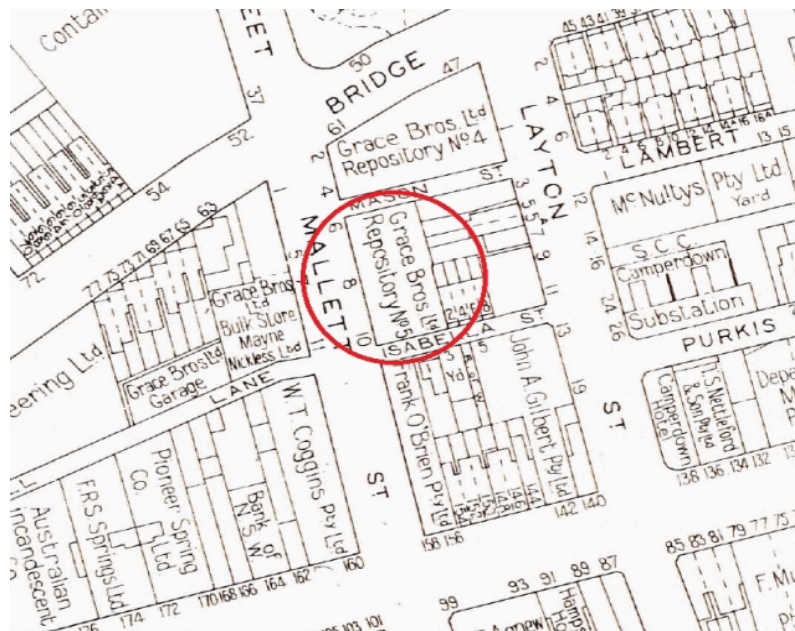
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test34530e445983e7243e2aa863b2f31cffe57.jpg

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: 1956 detail sheet showing the subject and surrounding Grace Bros repositories at this time

Copy right: City of Sydney archives

Image by: City Building Surveyors Department, City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/34541f01cad84404c5ba9cad045a177580b.jpg>

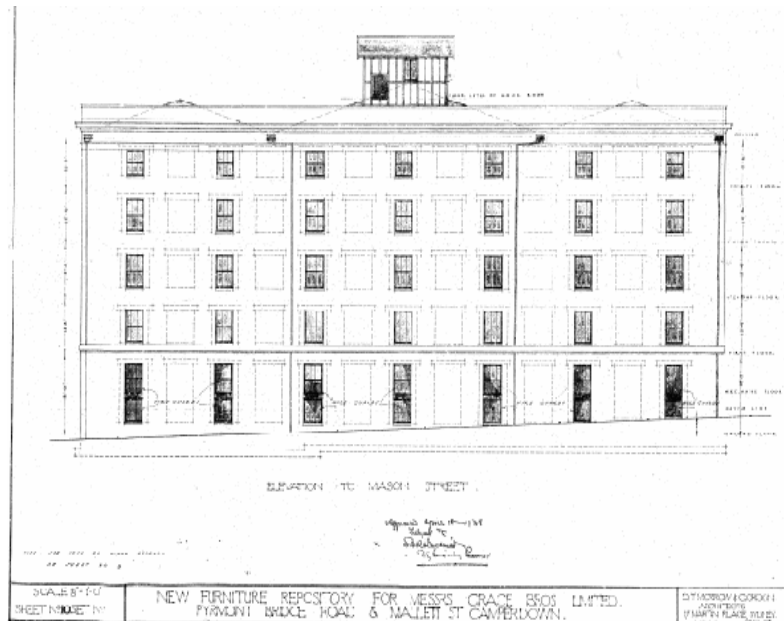
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test34541f01cad84404c5ba9cad045a177580b.jpg

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: D.T. Morrow & Gordon architectural drawing for Grace Bros repository on adjoining site

Copy right: City of Sydney archives

Image by: D.T. Morrow & Gordon

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/34548b85debe1894d8bb4b7d768c45eeeba.jpg>

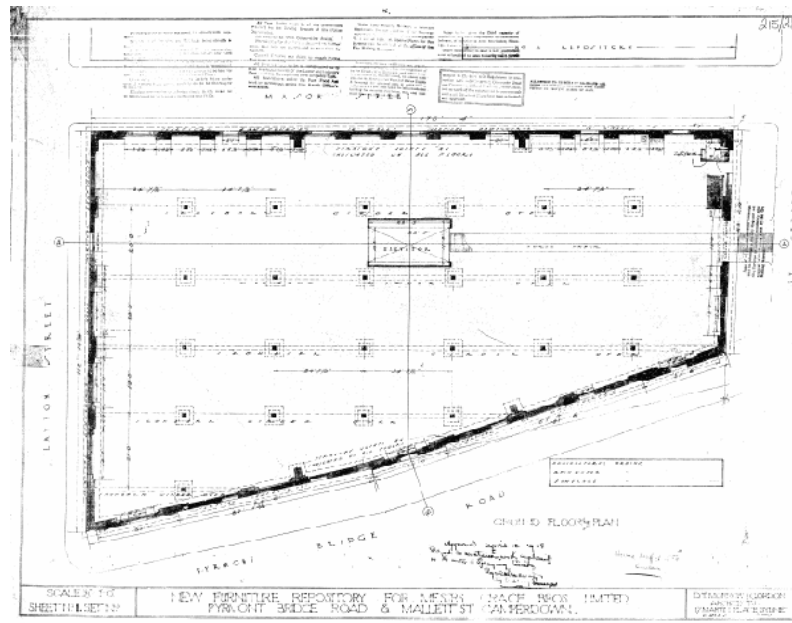
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test34548b85debe1894d8bb4b7d768c45eeeba.jpg

Item name: Former Grace Bros Repository including interiors

Location: 6-10 Mallett Street Camperdown 2050

Sydney

Image:



Caption: D.T. Morrow & Gordon architectural drawing for Grace Bros repository on adjoining site

Copy right: City of Sydney archives

Image by: D.T. Morrow & Gordon

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3450d4998aef0c9492d8b4b73c5e6b161de.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3450d4998aef0c9492d8b4b73c5e6b161de.jpg

Inventory 24

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Address: 64-106 Mallett Street

Planning: Sydney South

Suburb/nearest town: Camperdown 2050

Local govt area: Sydney

Parish: Petersham

State: NSW

County: Cumberland

Other/former names: Raritan Knitting Co, Church Dunblane substation, George A. Bond & Co Ltd, University of Sydney Mallett Street Campus, B

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Complex / Group

Group: Manufacturing and Processing

Category: Other - Manufacturing & Processing

Owner: University

Admin codes:

Code 2:

Code 3:

Current use: University of Sydney campus, faculty of nursing, church

Former uses: Textiles and clothing manufacturing, electricity substation

Assessed significance: Local

Endorsed significance:

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Statement of significance: Built for major Australian textile manufacturers in the 1920s and 1930s, the former Bonds Industries complex represents the large-scale industrial development of Camperdown during the mid-twentieth century. It is historically significant for its connection to the Australian manufacturing of clothing and as evidence of the formerly widespread textiles industry in the City of Sydney. The scale of the site and its buildings demonstrate the importance of the textiles and clothing industry to Sydney and Australia during the twentieth century.

Through its significant association with Bonds Industries from the 1920s through to the 1980s, the site also demonstrates the early development of this iconic Australian textiles company, which has produced a well-known range of clothing for almost 100 years.

The site and its "Chesty Bond" mural is likely to have value to the local community for its connection to the widely-used and recognised Bonds products made at this site and as a local landmark. As a major former employer in the local area for most of the twentieth century, the complex and its buildings are also likely to have social value to the community of former Bonds workers and their families.

Comprising a number of buildings mostly constructed by Bonds in the 1920s and 1930s, the complex represents a good example of a large inter-war industrial precinct. The multi-storey scale of the buildings demonstrates a different building typology for factory and mill buildings in this part of the City of Sydney, compared to the predominant form for the large southern Sydney factories from the same period of single-storey, sawtooth-roofed buildings.

The scale of the site, its buildings, and the tower with the "Chesty Bond" mural, give the site landmark qualities in the local neighbourhood. The former Bonds buildings, tower and mural are highly visible from a number of near and distant vantage points in the surrounding streets and adjacent park. They make an important contribution to the streetscapes of Mallett, Church and Fowler Streets and Hampshire Lane, and strongly define the edge of Camperdown Park.

A number of the buildings in this precinct demonstrate the work of the prominent architectural firm, Robertson & Marks. These buildings (buildings A, B, C, F and G) represent good examples of the inter-war free classical style in their geometric massing, surviving inter-war features and pattern of fenestration.

The "Chesty Bond" murals painted on the tower of building D near Hampshire Lane are rare surviving markers of this Australian textiles icon, which represent a reproduction of the graphic designed by J. Walter Thompson.

Substation No.181 (Church Dunblane) represents a good example of an inter-war electricity substation with aesthetic and historical significance for its association with the former Bonds Industries and as evidence of the expansion of Sydney's electrical network to serve factories. The construction of a substation on this site records the high energy demands of the former factory and the importance of electricity for industrial development, factory design and operations during this period.

The facade of the former cafeteria on Church Street demonstrates recognisable remnants of a confident and accomplished example of the inter-war Art Deco style.

The complex forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former Bond's Industries complex is of local heritage significance in terms of its historical, aesthetic, social and representative values.

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Historical notes of provenance: Early development of locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The inner-city suburb of Camperdown forms part of the 240 acre estate granted to Governor Bligh in August 1806. Bligh named the area Camperdown in memory of a 1797 naval battle. The grant extended from the junction of Orphan School Creek and Johnston's Creek in the north, and across Parramatta Road to Cook's River Road. A model farm was initially established on the grant. In 1841 the Bligh estate was subdivided as O'Connell Town on Cook's River Road and Camperdown on Parramatta Road.

The University of Sydney was incorporated in 1850 and Edmund Blackett's Great Hall opened in 1859. The northern area of the university was built on the former farm known as Grose Farm, comprising 30 acres leased to Lieutenant-Governor Francis Grose in 1792. By 1802 the land was in use as a government experimental farm. The whole block of land between Parramatta, City and Missenden Roads was named after this farm.

In 1868 a public meeting held in Sydney decided to erect a permanent memorial to commemorate the "providential escape of Her Majesty's son at Clontarf in March 1868". In 1873 12 acres of the university paddock, intended for use as Wesleyan College, were chosen as the site for a memorial hospital. Opened in 1882, the hospital was named Prince Alfred Hospital.

Mallett Street was named after an early mayor of Camperdown Council, C. S. Mallett, who was a strong supporter of ratepayers in the area.

(Pollon, 1988, pp.47-48)

Robertson & Marks history:

The prominent Sydney architects, Robertson & Marks, was established in 1892 and continues to practice today as Robertson & Marks Pty Ltd. The original partners were George Birrell Robertson and Theodore John Marks. Struan Robertson inherited both partners' shares upon their deaths in 1913 and 1941. John Trevor Guy joined the practice in 1940.

Much of the practice's early work was connected with racing due to the connections of the partner, Theodore Marks. Marks was a member of the Australian Jockey Club (AJC) from 1893, an original shareholder in the Victoria Park Racing and Recreation Grounds Co Ltd for pony-racing, and chairman of the Rosehill Racing Club between 1919-41. Marks designed many of the buildings and alterations at Randwick and Warwick Farm Racecourses for the AJC in 1922 and the since demolished Leger Stand at Rosehill (1920), amongst others.

Robertson & Marks designed a large number of significant buildings in Sydney. Between 1892 and 1941 these works included the: Edwards Dunlop & Dunlop Warehouses, Kent Street (1901); Briscoe & Co Ltd bulk store, Ultimo (1901); W. Horace Friend Warehouse, Clarence Street (1906); Oswald Sealy Building, Clarence Street (1906); Richardson & Co Emporium, Armidale (1908); the original Challis House, Martin Place (1908); Perpetual Trustee Co, Hunter Street (1917); Daily Telegraph Building, King Street, with Samuel Lipson (1912-16,1934); Prouds Ltd, Pitt Street (1920); Hotel Australia Rowe Street wing (1923); Warwick Farm Racecourse grandstand (1925), Bank of NSW head office, Martin Place (1927-32); Mercantile Mutual Building, Pitt Street (1929); Asbestos House, York Street, with John Reid & Sons (1930-5); and the AWA Building, York Street, as Robertson, Marks & McCredie with Morrow & Gordo (1937-39).

In its earlier days, the practice also designed numerous houses for the elite of Sydney society, including: 'Goondee', Wahroonga (1897); 'Glensley', Turramurra (1897); 'Gorawin', Killara (1903); Brunton house, Bellevue Hill (1904); 'Heverlee', Wahroonga (1904); and 'Wanstead' (Gowing), Lindfield (1911).

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

The architectural styles of the firm changed both with time and the building type. Their major commercial buildings in the early years of the century were bold Federation warehouses with Romanesque arches at either ground or top floor level. The arches gave way to a simple rectilinear, trabeated facade treatment in later warehouses and offices. During the inter-war period, the firm's large Sydney buildings demonstrated a number of inter-war styles including the commercial palazzo style (Farmer & Co. department store, Market Street, 1920, and Gowings Bros Building, Market Street, 1912-29, with C.H. Mackellar), inter-war functionalist (S.H. Hoffnung & Co. Building, 1939, with Samuel Lipson) and restrained inter-war Mediterranean styles (Bondi Surf Pavilion, Bondi Beach, 1930 with L. McCredie). (Robertson, 2011)

Bonds and site history:

The iconic brand of Bonds has been part of Australia for almost 100 years. In 1915, an American, George A. Bond, moved to Australia and established a small company in Sydney importing a range of women's hosiery and gloves. Two years later, the company began manufacturing hosiery in Redfern and subsequently moved to Camperdown where it began manufacturing underwear. (Bonds website 'About Bonds', 2013)

Between 1918 and 1927 George A Bond and Co, purchased over thirty allotments in what was then a largely residential area along the south-eastern side of Camperdown Park between Mallett and Church Streets, with some allotments in the surrounding area. The company constructed its head office on this land, together with a number of industrial buildings to manufacture hosiery, socks and underwear. The buildings were designed by the prominent architects, Robertson & Marks.

The expansion of Bonds through the 1920s was remarkable for its innovative products, niche marketing and distinctive brand name. However this did not ensure financial success. By 1927 George A Bond Pty Ltd was in receivership and a newly restructured Bond Industries was formed in 1930. The company became profitable again by 1935.

The company built one of Australia's first cotton spinning mill at Wentworthville in 1932. George Bond's original house in Wentworthville, 'Dunmore House', still survives adjacent to the current Bond's Head Office. (Bonds website 'About Bonds', 2013)

A cafeteria was constructed on the site for the Bond's factory workers during the 1930s. The architect for the design of this building is unknown.

In 1938 J Walter Thompson created the symbol of "Chesty Bond", one of the most famous Australian company icons. Bonds later became known as 'the largest hosiery manufacturer in the British Empire'.

During the 1950s, the company also operated factories at Cessnock and Dubbo

In 1970, the company merged with the British firm, Coats Paton Pty Ltd.

In 1986 Bonds Coats Patons Ltd sold the Camperdown site to the Sydney College of Advanced Education and moved its operation to Wentworthville except for Building G which remained as the head office. In 1987, the company was taken over by Pacific Dunlop Limited. In 1990, the company transferred its head office from Camperdown to Wentworthville and closed its warehouses at Five Dock and Leichhardt to open one central distribution centre at Minto. (Bonds website 'About Bonds', 2013)

In approximately 1988 the interior fabric and part of the external walls to the cafeteria were demolished and the shell of the building was adapted for undercover parking for the college.

With the demise of tertiary education colleges, parts of the Sydney College of Advanced Education were amalgamated with the University of Sydney. In 1990, the Mallett Street Campus passed into the ownership of the university.

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

In 2009 part of the the site adjoining Church Street was redeveloped to accommodate a medical centre and research establishment associated with the Brain and Mind Research Institute of the University of Sydney. As part of this redevelopment, the side walls of the former cafeteria were retained, the façade restored and incorporated into a new four level building. This new building, designed by BVN Architecture, won the Health Category Award at the World Architecture Festival in 2010.

Since 1915, Bonds has sold over 400 million "Chesty Bonds" singlets, 155 million pairs of Cottontails pants and 20 million baby Wondersuits. Bonds remains today one of the largest Australian manufacturers of t-shirts and underwear. (Bonds website 'About Bonds', 2013)

Building history summary:

Building A (M02A):

The original spinning mill of Bond's Industries was built in 1925 to the design of Robertson & Marks. It was refurbished in 2001 by the University of Sydney.

Building B (M02B):

This building was constructed in 1924 on some earlier structures including the boiler house, hosiery dye house and yarn dye house. The site was redeveloped as a mill in 1924 to the design of Robertson & Marks. It was refurbished in 2000.

Building C (M02C):

This building was constructed in 1925-26 to the design of Robertson & Marks and was one of the original hosiery mills on the site. It was refurbished in 2002.

Building D (M02D):

Purchased in 1918, this was the first premises of George Bond. This building is located at the corner of Mallett Street and Hampshire Lane and was likely occupied by Raritan Knitting Co before George Bond's started operating there. It is unknown when the tower was built. The building was considerably altered in the late 1980s when it was adapted for educational and car parking uses.

In 1938, a mural of 'Chesty Bond' was painted on the tower's north and west faces. Its current design is based on a graphic designed by J. Walter Thompson, however it is possible that the design has been modified over time as the mural has been progressively renewed.

Building E (M02E, Electricity Substation):

In late 1925, George A Bond & Co agreed to construct a substation on its property and lease it to the Sydney Municipal Council for the purpose of supplying electricity to the Bond's cotton mill and factory building. A clause in the agreement allowed the Sydney Municipal Council to supply electricity to other consumers, subject to the demand of the company first being met. The substation building was designed by the City Architect in February 1926.

The substation building was erected on Church Street frontage and was connected to the network in July 1926. The substation became an important switching centre on the 5.5kV network and also supplied several sets of low-voltage street mains in the vicinity.

In conjunction with the erection of the substation, the company also built a new six-storey mill building on its adjoining land. The new mill building fronted Mallett Street, but extended across the block through to Church Street.

In approximately 1950, when Bond & Co began to transfer machinery from Camperdown to its factory at Wentworthville, electrical demand at the Camperdown factory was drastically reduced. Demand for electricity from Bond & Co at Camperdown rose again in 1958 and further in 1964.

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

During the early 1990s, the substation was renamed as Church Dunblane. Several new kiosk-type substations were established in the surrounding area in the following years. In July 2009, after eighty three years' service, the substation was disconnected from the network. The equipment was removed and the building acquired by Sydney University. (Pennington, 2012)

Building F (M02F):

This building was the original spinning and underwear mill built in 1926-27 to the design of Robertson & Marks. It was refurbished in 2003 by the University of Sydney for educational purposes.

Building G (M02G):

This was the original Bonds head office building built in 1924 and 1925 by J Porters and Sons to the design of Robertson & Marks. It remained the Bonds head office until 1990 when it was incorporated as part of the Mallett Street campus of Sydney University. The building was refurbished in 2005 as part of the Brain and Mind Research Institute.

Building H (M02H):

This former garage was designed by William R. Laurie and Eric F. Heath during the late 1930s. It was refurbished in 2005 by the University of Sydney for use as part of the campus.

Building K (M02K):

This was the original Bonds' Cafeteria, a two storey building with Art Deco detailing built during the 1930s. The architect is unknown. In approximately 1988 the interior fabric and part of the external walls were demolished and the shell of the building was adapted for undercover parking for the university.

In 2008-9 the side walls of the former cafeteria were retained and the facade restored and incorporated into a new four level research building. It is currently occupied by the Brain and Mind Research Institute of the University of Sydney.

Themes:	National theme	State theme	Local theme
	3. Economy	Industry	Factories
	3. Economy	Technology	Electricity
	5. Working	Labour	Activities associated with work
	3. Economy	Commerce	Warehouses
	6. Educating	Education	Public education

Designer: Robertson & Marks (buildings A,B,C,F&G) Heath & Laurie (building H), J. Walter Thompson (mural)

Builder: J. Porter & Sons (building G), unknown for other buildings

Year started: 1924

Year completed: 1939

Circa: Yes

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Physical description: The former Bonds Industries complex occupies a large site comprising most of the block fronting Camperdown Park on the west and Church Street to the east. The precinct comprises nine main buildings dating from the inter-war years with frontages to Mallett and Church Streets and Hampshire Lane, numbered as buildings A-H and K (or M02A-H and M02K).

The textile mill, factory and office buildings (buildings A, B, C, F and G) were constructed in the 1920s to the design of prominent architects Robertson & Marks in the inter-war free classical style for George Alan Bond. Building D may have already existed when George A Bond purchased the site in 1918. The garage (building H) was designed by architects William R Laurie and Eric F. Heath for Bonds.

All the buildings except for building G were altered internally when they were converted for educational use in the late 1980s and early 1990s.

Building A (M02A):

A six-storey rendered brick building originally constructed as a spinning mill. The building has large rectangular massing with large multi-paned windows and tall lead downpipes dividing the main facade into three bays. The upper-most level walls are rendered with an ashlar finish and feature a brick cornice with a slight return along the side facades. The building was refurbished in 2001. The ground level is currently used as garage while the upper storeys are used by the University of Sydney.

Building B (M02B):

This single-storey painted brick building was constructed as a mill in 1924 to the design of Robertson & Marks. It was redeveloped as a garage at ground level with a contemporary addition to the rooftop level behind the facade parapet. Some original windows have been infilled with bricks. Original downpipes are still visible on the facade. The building was refurbished in 2000 by the University of Sydney. The condition of these facades are generally lower than other buildings on the site.

Building C (M02C):

A six-storey rendered brick building with ashlar finishes on the first two levels and south-west corner. It has large rectangular massing with large multi-paned windows and tall lead downpipes dividing the main facade into three bays. Rendered cornices are located below and above the third level. The upper storeys and the window fenestration appear to have been altered. The building was refurbished in 2002.

Building D (M02D):

A modest two-and-a-half-storey rendered brick building with large multi-paned rectangular windows at the second level. The ground floor fenestration has been altered with some openings infilled with bricks. The facades contain rendered string course and an applied cornice. A metal deck roof slopes inwards to an open courtyard. Level two has a partly exposed timber-framed structure.

The painted brick tower located at the north-eastern corner near Hampshire Lane feature murals of 'Chesty Bond' painted on its north and west faces. Its current design is based on a graphic designed by J. Walter Thompson. It is possible that the design has been modified over time as the mural has been progressively renewed.

Building E (M02E):

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

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The former Electricity Substation No.181 (Church Dunblane Substation) is an inter-war electricity substation built in 1927 fronting Church Street. It is a two-storey brick building with a part face brick and part rendered facade with a decorative rendered pediment and entablature over the entrance. A large identification sign with the electricity substation number is located above the front door and a large symbol of the Sydney Municipal Council is carved into the pediment. The multi-paned steel window on the main facade is framed by a rendered architrave. The side windows have rendered lintels.

Building F (M02F):

A seven-storey rendered brick building with ashlar finishes to the first two storeys and north-west and south-west corners. The substantial building has geometric massing with large multi-paned windows. The upper levels and windows appear to have been altered. A decorative string cornice runs along the facade above the third level. The building was refurbished in 2003 by the University of Sydney.

Building G (M02G):

A six-storey rendered brick office building used as the Bond's head office until 1990. The facade contains steel and aluminium-framed windows and a 1970 metal awning over the main entrance. The substantial building has geometric massing with large multi-paned windows and a service tower over the roof. An elevated corridor links this building to Building F at the sixth level.

Internally, the building retains its original concrete and timber structure and an original precast terrazzo and metal main staircase. Stair treads have been replaced on lower floors. The room adjacent to the front door retains original floor and wall tiles. The ground floor entrance lobby, visitors area, lavatories and upper floor executive areas have decorative fit-outs from the 1970s. The fourth floor contains a safe room with safe door.

The building was refitted in 2005 for the Brain and Mind Research Institute.

Building H (M02H):

A modest single-storey building with clerestory windows over the central part of the corrugated iron roof. The main facade features simple rectangular openings infilled with glass bricks. This building was refurbished in 2005 by the University of Sydney.

Building K (M02K):

A four-level building constructed in 2008 which incorporates the facade and side walls of the former 1930s cafeteria. The facade retains Art Deco features including its rendered brick construction with ceramic tile finish to the entrance loggia and base of the facade, scribed and applied string courses, pilasters, vertical relief pattern in render above north and south windows, metal frame windows, and shopfronts and street awnings with stays.

The roofs, foundations and floor structures of the buildings on the site were not inspected by the authors.

Category: Precinct. Styles: Inter-war. Storeys: 1 to 7. Facades: Painted and rendered brickwork. Roofs: Concealed behind parapet walls.

Physical condition level: Good

Physical condition: Good condition externally

Archaeological potential level: Not assessed

Archaeological potential Detail:

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Modification dates: 1988 (approx): Cafeteria interior fabric and part of the external walls demolished and remaining shell adapted for undercover parking for the university.

2009: Cafeteria side walls retained and façade restored and incorporated into a new four level building for a medical centre and research establishment associated with the Brain and Mind Research Institute of the University of Sydney.

1980s: Mural repainted.

Recommended management: The inter-war buildings, and their surviving original or early internal and external features, should be retained and conserved.

The mural should be retained and conserved, including views to the mural from Mallett Street and Hampshire Lane.

A Conservation Management Plan should be prepared to guide major plans for the complex.

A Statement of Heritage Impact should accompany development applications proposing major changes.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Future redevelopment of the inter-war buildings should consider reinstatement of original facade features, where possible.

New uses for the buildings are to complement and enhance the internal and external industrial character of the building by conserving and interpreting significant fabric and spatial qualities.

Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Parts of the site, comprising the former Head Office (building G) at 100-106 Mallett Street and the former cafeteria (building K) at 97-99 Church Street were first listed as heritage items with the gazettal of Amendment No. 3 of South Sydney LEP 1998 on 28th July 2000. The whole site was listed on the Section 170 Register of the University of Sydney on 23rd November 2010.

Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Criteria a): Built for major Australian textile manufacturers in the 1920s and 1930s, the former Bonds Industries complex represents the large-scale industrial development of Camperdown during the mid-twentieth century.

[Historical significance]

It is historically significant for its connection to the Australian manufacturing of clothing and as evidence of the formerly widespread textiles industry in the City of Sydney. The scale of the site and its buildings demonstrate the importance of the textiles and clothing industry to Sydney and Australia during the twentieth century.

Through its significant association with Bonds Industries from the 1920s through to the 1980s, the site also demonstrates the early development of this iconic Australian textiles company, which has produced a well-known range of clothing for almost 100 years.

Electricity substation No.181 (Church Dunblane) is significant for its association with the former Bonds Industries and as evidence of the expansion of Sydney's electrical network to serve factories.

The complex forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The precinct has significant associations with Bonds Industries as their centre of their Sydney operations from the 1920s to the 1980s.

[Historical association significance]

Five of the inter-war building designs are associated with the prominent architectural firm of Robertson & Marks.

The substation has significant associations with the Municipal Council of Sydney, who constructed the building as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936.

Criteria c): Comprising a number of buildings mostly constructed by Bonds in the 1920s and 1930s, the complex represents a good example of a large inter-war industrial precinct. The multi-storey scale of the buildings demonstrates a different building typology for factory and mill buildings in this part of the City of Sydney, compared to the predominant form for the large southern Sydney factories from the same period of single-storey, sawtooth-roofed buildings.

[Aesthetic/ Technical significance]

The scale of the site, its buildings, and the tower with the "Chesty Bond" mural, give the site landmark qualities in the local neighbourhood. The former Bonds buildings, tower and mural are highly visible from a number of near and distant vantage points in the surrounding streets and adjacent park. They make an important contribution to the streetscapes of Mallett, Church and Fowler Streets and Hampshire Lane, and strongly define the edge of Camperdown Park.

A number of the buildings in this precinct demonstrate the work of the prominent architectural firm, Robertson & Marks. These buildings (buildings A, B, C, F and G) represent good examples of the inter-war architectural styles, most closely the Chicagoesque and Commercial Palazzo styles, in their geometric massing, surviving inter-war features and pattern of fenestration.

The "Chesty Bond" murals painted on the tower of building D near Hampshire Lane are rare surviving markers of this Australian textiles icon, which represent a reproduction of the graphic designed by J. Walter Thompson.

Electricity substation No.181 (Church Dunblane) represents a good example an electricity substation, demonstrating typical features and surviving ornamentation of the inter-war architectural period.

The facade of the former cafeteria on Church Street demonstrates recognisable remnants of a confident and accomplished example of the inter-war Art Deco style.

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Criteria d): [Social/Cultural significance] Social significance requires further study to ascertain its value to communities. The site is likely to have value to the local community for its connection to the widely-used and recognised Bonds products made at this site. As a major former employer in the local area for most of the twentieth century, the complex and its buildings are also likely to have social value to the community of former Bonds workers and their families.

As a major former employer in the local area for most of the twentieth century, the complex and its buildings is also likely to have social value to the community of former Bonds workers and their families.

As a symbol of the major former presence of Bonds in Camperdown and a long-standing and highly visible local landmark, the “Chesty Bonds” murals holds particular social value to the local community of Camperdown, as demonstrated by the community opposition to the proposal to paint over the mural in the late 1980s.

Criteria e): [Research significance] The building may offer research potential into the evolution of technology for electricity supply and architectural design for substations in Sydney.

Criteria f): [Rarity] The Former Bonds Industries complex is rare as a multi-storey industrial complex from the major textile manufacturing operations of Bonds during the twentieth century in the City of Sydney.

Criteria g): [Representative] The site is a good example of a large inter-war industrial precinct. The buildings on the site represent good examples of a multi-storey textiles manufacturing mill, an externally intact two-storey inter-war substation and the industrial work of Robertson & Marks.

Intactness/Integrity: Moderately intact externally. The mural has been repainted in the last 20 years.

References:	Author	Title	Year
	James Pennington	Electricity Substations of the Sydney Municipal Council.	2012
	Scott Robertson	Robertson & Marks, from The Encyclopaedia of Australian Arc	2011
	Clive Lucas, Stapleton & Partners	Mallett Street Campus, University of Sydney: Heritage Assessr	2003
	Trevor Williams	Paper on Faculty of Nursing Mallet Street buildings presented ε	1997
	Lawrence Deushane	Chest to Chest, Bonds Industries: 1915-1990. A look at the peo	1991
	Ian Gregory little	The practice of Robertson & Marks 1892-1941	1974
	City of Sydney/ City Building Surveye	City Building Surveyors Detail Sheets	1956
	RTA	Aerial Photographs of Sydney May-June 1943.	1943
	Bonds	Our Story	
	Bonds UK Site	About Bonds	
	NSW Office of Environment & Herita	Online heritage database (State Heritage Inventory) existing lis	

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage §		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	1		DP	785957

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Listing:	Name	Title	Number	ListingDate
	Building M02g, Mallett Street Cam	Heritage Act - s.170 NSW State agency heritage r		22/11/2010
	Chesty Bond Mural	Heritage Act - s.170 NSW State agency heritage r		23/11/2010
	Bonds Restaurant Facade	Heritage Act - s.170 NSW State agency heritage r		23/11/2010
	Building M02d, Mallett Street Cam	Heritage Act - s.170 NSW State agency heritage r		
	Former commercial building facade	Local Environmental Plan	I59	01/01/2012
	Former warehouse "Bonds Head O	Local Environmental Plan	I60	01/01/2012
	City of Sydney Industrial and Ware	Heritage study		
Data entry:	Data first entered: 14/07/2014	Data updated: 25/09/2015		Status: Completed

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Aerial photo of the former Bonds complex with the subject buildings circled

Copy right: Bing.com

Image by: Bing Maps

Image date: 01/01/2013

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/3453f867aec826743488ae75e37b52779c5.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test3453f867aec826743488ae75e37b52779c5.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Buildings D (M02D) and C (M02C) viewed from Mallett Street

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 04/02/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345111fbff81fc44691a9d58bf60e83383b.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345111fbff81fc44691a9d58bf60e83383b.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Building C (M02C) viewed from Mallett Street

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 04/02/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345fed41b5f95c243a8b8ad98a76f0d6fd9.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345fed41b5f95c243a8b8ad98a76f0d6fd9.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Building G (M02G) right, Building H (M02H) & part of F (M02F) to the far left

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 17/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a62a5bf142de43749c562ef0094c66a0.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345a62a5bf142de43749c562ef0094c66a0.JPG

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Building K (M02K), the former Bonds Cafeteria with the 2009 addition

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 04/02/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3458a3a990664954520a0aabdc216c24631.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3458a3a990664954520a0aabdc216c24631.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Substation No.181 included within the Former Bonds Industries site, Building E (M02E)

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 04/02/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3452ff6fb4955dc44a6b13ff08993620e94.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3452ff6fb4955dc44a6b13ff08993620e94.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Building B (M02B) viewed from Church Street

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 19/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34561650a5d51f84ebfbac4eb7fcc7ebb9.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34561650a5d51f84ebfbac4eb7fcc7ebb9.JPG

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Chesty Bond mural on the tower near Hampshire Lane

Copy right: City of Sydney

Image by: City Plan Heritage

Image date: 28/08/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3453f6c950bf0db46f98a0f47ad73c3ef70.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3453f6c950bf0db46f98a0f47ad73c3ef70.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: 1930s photo of the Bonds complex

Copy right: Fairfax Media, National Library of Australia

Image by: Fairfax archive of glass plate negatives, National Library of Australia (nla.pic)

Image date: 01/01/1930

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3450979611c27c5469b9b6b1e749278293f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3450979611c27c5469b9b6b1e749278293f.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Photograph of the staff in 1920s in front of Building C (M02C) in Mallett Street

Copy right: Bonds & Co

Image by: Bonds & Co

Image date: 01/01/1920

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a60b564992244fb79d704c75088f5613.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345a60b564992244fb79d704c75088f5613.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Opening of Camperdown Park playground showing Bond's factory in background in 1935

Copy right: City of Sydney archives

Image by: Sydney Reference Collection, SRC10416

Image date: 12/12/1935

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345bbe339a6f1bd43afa718c7accb351d56.jpg>

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Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Winding bobbins in the Bond's Factory

Copy right: Bonds & Co

Image by: Bonds & Co

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345a68b0dd44176451f8cbbe898860cac4f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345a68b0dd44176451f8cbbe898860cac4f.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: 1956 detail sheet showing Bonds Industries complex and surrounds

Copy right: City of Sydney archives

Image by: City Building Surveyors Department, City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345b03b1998066d44c1ac05a540da1a0a66.jpg>

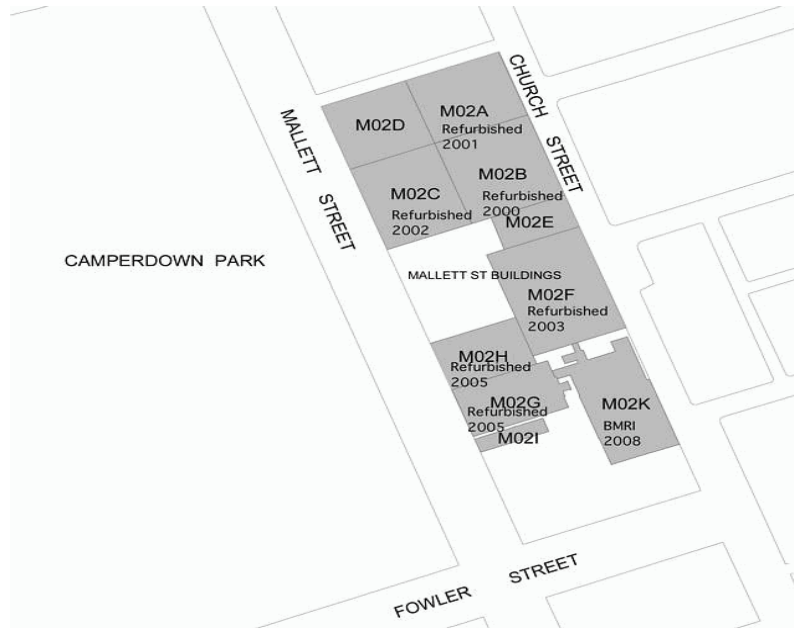
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345b03b1998066d44c1ac05a540da1a0a66.jpg

Item name: Former Bonds Industries complex including interiors

Location: 64-106 Mallett Street Camperdown 2050

Sydney

Image:



Caption: Mallett Street campus site map showing building numbers (M02I is excluded from the Bonds site)

Copy right: University of Sydney

Image by: University of Sydney

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345250f307e606d46b8a6ee14ca49644f4f.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345250f307e606d46b8a6ee14ca49644f4f.jpg

Inventory 25

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Address: 2-10 Golden Grove Street

Planning: Sydney South

Suburb/nearest town: Darlington 2008

Local govt area: Sydney

Parish: Petersham

State: NSW

County: Cumberland

Other/former names: H Jones and Co (Sydney) Pty Ltd, IXL H. Jones & Co Ltd Products, Jones-IXL building, Building H07 – University Garage

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Manufacturing and Processing

Category: Other - Manufacturing & Processing

Owner: University

Admin codes:

Code 2:

Code 3:

Current use: Office and storage facility

Former uses: Factory garage

Assessed significance: Local

Endorsed significance:

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Statement of significance: Built in 1937 as a motor garage for the Henry Jones and Company factory, this former garage represents the industrial development of Darlington during the mid-twentieth century. The Henry Jones and Company garage is historically significant for its connection to the development of the Australian food processing industry for jams, tinned fruits and other processed foods. The construction of the garage to house delivery trucks for the former IXL jam factory also represents technological advancements of the inter-war period through the growing use of motor vehicles for the distribution of products.

The building is significant for its historical association with Henry Jones and Company, better known by its iconic brand name 'IXL', which dominated the food processing industry in Australia for most of the twentieth century. The construction of this purpose-built garage demonstrates the growth of the company and the popularity of its products during the inter-war period in New South Wales.

Aesthetically, this former garage represents a good example of a modest inter-war functionalist industrial building exhibiting typical architectural features of this style including simple geometric massing, symmetrical composition, stepped and gabled parapets, polychromatic face brickwork, engaged piers, multi-paned steel windows and prominent signage.

The adaptive reuse of the building into offices and storage facility has retained its architectural integrity as a recognisable former garage. As a rare surviving example of inter-war development in the street, the building makes a positive contribution to the streetscapes of Golden Grove Street and Darlington Lane.

As a major former employer in the area, the remnant building may hold significance to the former workers of the Henry Jones and Company factory. The site may also hold significance to the community for its connection to the well known brand of IXL jam produced by this company, reinforced by the surviving original signage from this use.

The former garage is rare locally as the only known building surviving from the former industrial use of Henry Jones and Co in Darlington, since the main factory was demolished in the 1980s.

The former Henry Jones and Co garage forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former garage is of local heritage significance in terms of its historical, aesthetic, representative and rarity values.

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Historical notes of provenance: Early development of locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The locality of Darlington was earmarked for school uses from the early years of the colony. In 1801, the area was granted to the trustee of the Female Orphan Institution who leased out sections as an income source. The land was divided and parts re-granted by 1819. The Black Wattle Swamp Creek ran through parts of Darlington, resulting in swampy land in the location of the present Darlington Public School.

The 52 acres of land known as 'Golden Grove' or the 'Bullock Paddock' was granted to William Hutchinson in 1819. Thomas Shepherd also received 28.5 acres of land where he established a garden and nursery, named the 'Darling Nursery', in 1927. The name of the suburb was derived from Shepherd's nursery business.

The land was developed for housing from the 1850s. The municipality of Darlington was established in 1864. Eveleigh, as one of the largest employers in Sydney at the turn of the century, played a significant role in the development of the local area.

In 1879 the 'Golden Grove' Estate was subdivided into 36 sections for housing. By 1890 industries operating in Darlington included a jam factory, iron foundry, a zinc and brass works, two cabinet factories, a cordial factory, a portmanteau factory and other small industries. These industries generated a need for further residential development and also encouraged further sale of the 'Golden Grove' Estate to house the workers. The tram route then ran along Cleveland and Abercrombie Streets with stops at Wells, Codrington, Shepherd, Golden Grove and Wilson Streets to Newtown.

During the twentieth century, the importance of the Eveleigh railway yards declined as steam propulsion was replaced by diesel engines. During the 1920s the area became less desirable for residential purposes and by the 1940s the houses were considered slums.

The expansion of Sydney University from the late 1950s resulted in the redevelopment of a large area and the demolition of approximately 650 dwellings as well as shops, factories, the bank, post office, Town Hall and other amenities.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Henry Jones and Company:

Henry Jones (1862–1926), jam manufacturer, entrepreneur and financier, initially began working in George Peacock's jam factory on Hobart's Old Wharf.

Henry Jones and Co was founded in Hobart in 1891. In approximately 1898 Jones, popularly known as 'Jam Tin Jones', adopted the brand name IXL. Jones purchased the Old Wharf factory in Hobart in partnership with Achalen Palfreyman and Ernest Peacock in 1889. The business expanded to Victoria and Darlington during the late nineteenth and early twentieth century.

Jones expanded into the fruit export market in the late 1890s, then into the hop-growing and timber industries. He purchased and invested in large orchards and financed many other fruit growers in order to ensure a reliable fruit supply. He also established a small fleet of local and interstate sailing vessels, known as the 'jam fleet', and established long-term relationships with the major British shipping lines. Jones also became a leading Australian financier and one of the early advisors to the Commonwealth Bank.

Henry Jones was knighted in 1919. He was the driving force behind the expansion of the business. 'IXL' is believed to be based on Jones' personal motto 'I will excel in everything I do'.

Throughout most of the twentieth century, the company thrived as a food processing company and as a leading brand. Its factory in Darlington was a major local employer including an employer of Aboriginal people.

In 1974 Elder Smith Goldsbrough Mort & Co Ltd merged with Henry Jones IXL to form Elders IXL under the managing directorship of John Elliott. It was subsequently sold in 1989 to The J.M. Smucker Company based in America. By 2004, Henry Jones IXL became the leading manufacturer of fruit spreads in Australia. The company was sold to SPC Ardmona Ltd in 2004 (Australian Dictionary of Biography).

Site history:

This subject building was purpose-built in 1937 as a motor garage for Henry Jones and Co (Sydney) Pty Ltd, better known by its brand name of IXL. The firm's major Sydney factory producing tinned fruits and jams was located on the opposite side of Golden Grove Street. The garage was constructed in 1937 and was in continuous use by Henry Jones until the property was purchased by the University of Sydney in 1973. The university also continued to use the building as a garage for a short time.

The site originally contained a group of separate houses at 2-10 Golden Grove Street (Sands, Directory, 1932-3, p 332). On 18 May 1936, lots 38, 39 and 40 of part of the Golden Grove Estate were purchased by H Jones and Co (Sydney) Ltd (CT 4658 f 116). By 9 December 1936, the houses had been demolished and the land was vacant (Valuer-General, Valuation Lists, Darlington, SRNSW 19/13886, Numbers 383).

A land valuation on 17 February 1938 first recorded the construction of the subject building on the site which was then described as including a new brick building of two floors, with a ramp, garage and bowser (Valuer-General, Valuation Lists, Darlington, SRNSW 19/13886, Numbers 383).

In April 1938, fire damaged the main factory building causing part of the floor to collapse (SMH, 14 April 1938, p 8). The garage was visible in the 1943 aerial photograph (1943 aerial photograph, SIX, LPI).

The building continued in use as a garage until at least the 1970s. On 22 July 1954, the Department of Labour and Industry notified council that Harry C Bowden was using 10 Golden Grove Street for motor repairs (10 Golden Grove St, Street cards, NSCA). H Jones and Co applied on 9 May 1961 to alter the ground floor of the building to use it as a cold store (2-10 Golden Grove St, Street cards, NSCA).

John Elliot purchased IXL in 1973 with the intention of restructuring the company. In the same year, the

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

University of Sydney purchased the subject property (CT 4658 f 116, 10 August 1973). On 1 June 1973, almost two months before purchasing the land, the University of Sydney applied to use the building as a garage and bookstore. This was followed by another application to use the building as a garage and joinery shop on 5 October 1973 (2-10 Golden Grove St, Street cards, NSCA). The University of Sydney then applied on 23 March 1978 to use the building as student housing along with 311-323 Rose Street. The works for this new use were valued at \$500,000 (2-10 Golden Grove St, Street cards, NSCA).

The main factory building opposite the garage was demolished between 1979 and 1984. By 1989 the main factory site had been replaced by a housing complex. The subject garage remained as the only known building from the former Henry Jones and Co factory operations in Darlington.

The garage building is now known as 'Building H07 - University Garage' and is used as an office and storage facility.

Themes:	National theme	State theme	Local theme
	3. Economy	Industry	Factories
	3. Economy	Commerce	Garage
	5. Working	Labour	Activities associated with work

Designer: Unknown

Builder: Unknown

Year started:

Year completed: 1937

Circa: Yes

Physical description: The building was constructed in 1937 as a garage for the Henry Jones and Company (IXL) factory originally located on the opposite side of Golden Grove Street. The garage is located on a corner site at the junction of Golden Grove Street and Darlington Lane. The former garage comprises a two-storey brick building contained under a gabled roof concealed behind a parapet wall with two street frontages to Golden Grove Street and Darlington Lane. The building has no setback from the street and occupies the majority of the site except for a small area in the north-east corner.

The building is designed in the inter-war functionalist architectural style. It exhibits typical features of this style including simple geometric massing, heavy masonry construction, symmetrical composition, stepped and gabled parapet, polychromatic face brickwork, division of the façade into bays by brick piers, multi-paned steel windows and original signage.

The building retains two former vehicular entrances, a loading dock with timber doors on the laneway elevation and multi-paned steel-framed windows. The pattern of openings is accentuated through painted lintels and bullnosed brickwork detailing. Other decorative details include relief brickwork on the street frontage and parapet wall and prominent lettered signage on the parapet wall reading 'IXL H. Jones & Co Ltd Products'.

The two former vehicular entrances on the main street have been glazed with the southernmost converted to a pedestrian entrance. The adaptive reuse of the building for offices and storage has retained its architectural integrity as a recognisable former garage.

The roof, foundations and floor structures have not been inspected by the authors.

Category: Individual Building. Style: Inter-war functionalist. Storeys: 2. Facade: Face Brick. Windows: Multi-paned steel framed. Roof: Gable with metal cladding.

Physical condition level: Good

Physical condition:

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Archaeological potential level: Not assessed

Archaeological potential Detail:

Modification dates: Timeline of known dates for changes to the site:

14 January 1935

Valuation of 2 to 10 Golden Grove Street records dwelling houses on this site

18 May 1936

Lots 38, 39 and 40 (now 2-10 Golden Grove Street) of the Golden Grove Estate transferred to H Jones and Co (Sydney) Ltd

9 December 1936

Valuation of part of lots 36-39 now owned by H Jones and Co Ltd shows land as vacant

17 February 1938

Valuation of part of lots 36-39 records a new brick building of two floors, with a ramp, garage and bowser

April 1938

Fire damaged main factory building nearby

1943

Garage visible in 1943 aerial photograph

22 July 1954

Labour and Industry notification to council for use of site by Harry C Bowden for motor repairs

9 May 1961

Application by H Jones and Co (Sydney) Pty Ltd for alterations and additions to part of ground floor for use as a cold store

1 June 1973

Application by University of Sydney to use building as garage and bookstore

10 August 1973

Transfer of property to the University of Sydney

5 October 1973

Application by University of Sydney for its use as garage and joinery shop

23 March 1978

Application by University of Sydney for its use as student housing, including works worth \$500,000

17 September 2012

Application approved for adaptive reuse of building for University of Sydney office space (DA/2012/502)

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival and photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Do not paint, render or seal face brick walls.

Face brickwork, decorative relief brickwork details, original signage, steel windows, loading docks, timber doors, and other original building features should be conserved and maintained.

New uses for the building are to complement and enhance the former industrial internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Built in 1937 as a motor garage for the Henry Jones and Company factory, this former garage represents the industrial development of Darlington during the mid-twentieth century. The Henry Jones and Company garage is historically significant for its connection to the development of the Australian food processing industry for jams, tinned fruits and other processed foods.

[Historical significance]

The construction of the garage to house delivery trucks for the former IXL jam factory also represents technological advancements of the inter-war period through the growing use of motor vehicles for the distribution of products.

The former Jones IXL factory garage forms part of one of the largest known collections of industrial and warehouse buildings in Australia, which records Sydney's rich industrial past as one of only two historic industrial heartlands in Australia. This collection of industrial and warehouse buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The building is associated with Henry Jones and Company, better known by its iconic brand name 'IXL', which dominated the food processing industry in Australia for most of the twentieth century. The company was particularly well known for their IXL jams and tinned fruits which were widely used and recognised in the Australian market.

[Historical association significance]

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Criteria c): The building represents a good example of a purpose-built garage in the inter-war functionalist architectural style. The building features typical elements of this style including simple geometric massing, symmetrical composition, stepped and gabled parapets, polychromatic face brickwork, engaged piers, multi-paned steel windows and prominent signage.
[Aesthetic/ Technical significance]

The adaptive reuse of the building into offices and storage facility has retained its architectural integrity as a recognisable former garage. As a rare surviving example of inter-war development in the street, the building makes a positive contribution to the streetscapes of Golden Grove Street and Darlington Lane.

Criteria d): Social significance requires further study to ascertain its value to the local community. As a major former employer in the area, the remnant building may hold significance to the former workers of the Henry Jones and Company factory. The site may also hold significance to the community for its connection to the well known brand of IXL jam produced by this company, reinforced by the surviving original signage from this use.
[Social/Cultural significance]

Criteria e):
[Research significance]

Criteria f): The former garage is rare locally as the only known building surviving from the former industrial use of Henry Jones and Co in Darlington since the main factory was demolished in the 1980s. It is also rare as a surviving example of inter-war development in the street.
[Rarity]

Criteria g): The former H Jones and Co garage is a good example of a modest inter-war functionalist industrial building exhibiting typical features of this style. The construction of the garage to house delivery trucks for the former IXL jam factory also represents technological advancements of the inter-war period through the growing use of motor vehicles for the distribution of products.
[Representative]

Intactness/Integrity: Externally intact

References:	Author	Title	Year
	Graham Brooks and Associates	2 Golden Grove Street, Darlington. Heritage Impact Statement	2012
	Graham Brooks and Associates	Abercrombie Precinct Redevelopment. University of Sydney, I	2011
	South Sydney Council	Planning Street Cards, South Sydney (1929-1994)	
	John Sands	Sands Directories	
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Darlington, Sydney	1890
	City of Sydney/ City Building Surveyors	City Building Surveyors Detail Sheets	1956
	John Reynolds	Jones, Sir Henry (1862-1926)	1983
	RTA	Aerial Photographs of Sydney May-June 1943	
	CES Turner and Sons, Sydney and Me	Directory of Manufacturers of Australia	
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage		2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT	20		DP	1196550

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Listing:	Name	Title	Number	ListingDate
	City of Sydney Industrial and Ware	Heritage study		

Data entry: Data first entered: 05/08/2014

Data updated: 06/08/2015

Status: Completed

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: Front elevation of the former garage

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34555499ea178624e728bcec9648d50c5f5.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34555499ea178624e728bcec9648d50c5f5.JPG

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: North elevation along Darlington Lane

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34571e6d47ec6d244dbb0f935436adadaac.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34571e6d47ec6d244dbb0f935436adadaac.JPG

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: Detail of front elevation showing original brickwork, steel-framed window and signage

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345e3b89154b7cd408eb2ac4066fdd9295d.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345e3b89154b7cd408eb2ac4066fdd9295d.JPG

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: IXL delivery trucks in 1937 likely showing the former factory in the background, since demolished

Copy right: State Library of NSW

Image by: ML hood_15975, 16 October 1937

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345547181fa55214cd29c8d97c675892d7d.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345547181fa55214cd29c8d97c675892d7d.jpg

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: Former IXL factory buildings at 1-13 Golden Grove Street, since demolished

Copy right: City of Sydney

Image by: City of Sydney Archives - NSCA CRS 1140

Image date:

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345630eec2df41045ba836ad8db7e8f772f.jpg>

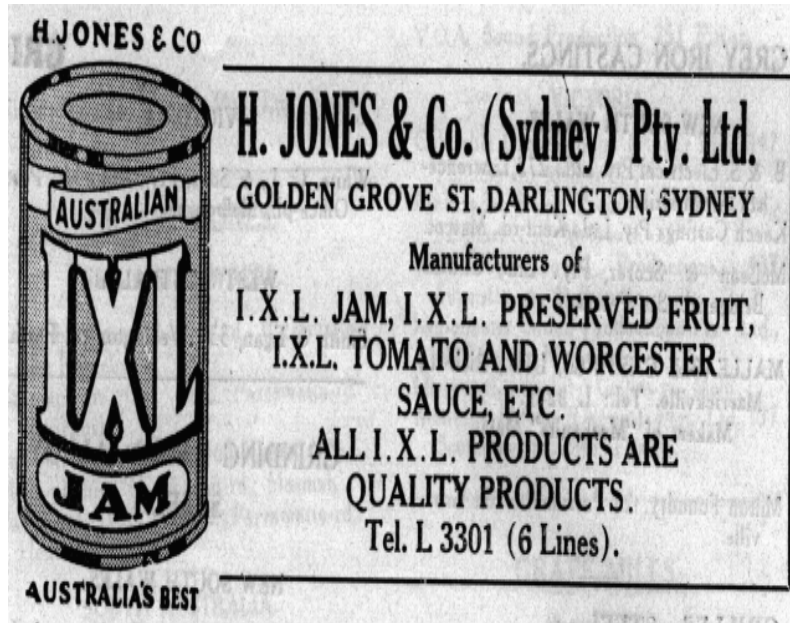
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345630eec2df41045ba836ad8db7e8f772f.jpg

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: 1939 advertisement for IXL giving the factory address

Copy right: Directory of Manufacturers of Australia

Image by: Directory of Manufacturers of Australia, C E S Turner & Sons, Sydney and Melbour

Image date: 01/01/1939

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3455c8dba60a7dc4df3a4a4c384c6e795ab.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test3455c8dba60a7dc4df3a4a4c384c6e795ab.jpg

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: Further IXL marketing from 1960

Copy right: Women's Weekly

Image by: Women's Weekly, 2 March 1960, p 22

Image date: 02/03/1960

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34565dadf00f6034e1e9b62d24953f43793.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34565dadf00f6034e1e9b62d24953f43793.jpg

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: The site in 1949 showing the garage circled and former IXL factory opposite before its demolition

Copy right: City of Sydney

Image by: City of Sydney

Image date: 15/12/1949

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34586b40d51d5d1467ebefc26683b3bef3a.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34586b40d51d5d1467ebefc26683b3bef3a.jpg

Item name: Former Jones IXL factory garage including interiors

Location: 2-10 Golden Grove Street Darlington 2008

Sydney

Image:



Caption: 1956 detail sheet showing the garage site circled and factory opposite

Copy right: City of Sydney

Image by: City of Sydney Archives

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/34516ee6d3928954536b6b2ea49fe0b2af0.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP/P/Thumb_test34516ee6d3928954536b6b2ea49fe0b2af0.jpg

Inventory 26

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Address: 181 Lawson Street

Planning: Sydney South

Suburb/nearest town: Darlington 2008

Local govt area: Sydney

Parish:

State: NSW

County:

Other/former names: McMurtrie and Co, Parkinson and Cowan (Australasia), Nedor Holdings, Nedor House; Damure Corporation Pty Ltd, The Fou

Area/group/complex:

Group ID:

Aboriginal area: Eora

Curtilage/boundary: As described in Sydney Local Environmental Plan

Item type: Built

Group: Manufacturing and Processing

Category: Factory/ Plant

Owner: Multiple Owners

Admin codes:

Code 2:

Code 3:

Current use: Residential and commercial

Former uses: Factory

Assessed significance: Local

Endorsed significance:

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Statement of significance: Built in approximately 1883 as a boot factory for McMurtrie, Kellermann & Co and later converted to a gas meter manufacturing works for Parkinson and Cowan, this former factory represents the industrial development of Darlington from the late nineteenth century to the mid twentieth century. The building is historically significant for its connection to the Australian manufacturing of shoes from the 1880s to the 1920s and gas meters from the 1920s to the 1960s. The former factory also represents the historical development of the labour movement as the site of large strikes in 1935 protesting the replacement of skilled with unskilled workers.

The building has significant associations with one of Australia's largest boot manufacturers, McMurtrie, Kellermann and Co, which employed over 400 people by 1888 and supplied boots throughout Australia and the Pacific Islands. The building is also associated with one of only two manufacturers of gas meters in New South Wales by 1940, Parkinson and Cowan.

Architecturally, the building represents a good example of a late nineteenth century factory designed in the Federation warehouse style with a consistent later extension. It demonstrates typical features of this style including heavy masonry construction, parapet and cornice detailing emphasising the rectangularity of facades, contrasting polychromatic face brickwork, regular pilasters dividing facades into bays, the pattern of paired windows and strongly emphasised arches. The adaptive reuse of the building into residential units and commercial offices retains its architectural integrity as a recognisable former factory.

Through its prominent corner position, distinctive height and Federation features, the building is a landmark in the local neighbourhood marking the junction of five streets. The building is visible in the round from a number of near and distant vantage points and makes an important contribution to the surrounding streetscapes of Lawson, Ivy, Abercrombie and Wilson Streets and Ivy Lane.

The building may hold significance to the former workers of McMurtrie, Kellermann and Co boot manufacturers and Parkinson and Cowan gas meter manufacturers as major former employers in the Darlington area. The site may also hold significance to the community as the source of boots and gas meters found in many Australian homes. The building's landmark qualities in the local neighbourhood may have value to recent and past residents as a point of reference and tangible connection to the industrial past of Darlington.

The former factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former factory is of local heritage significance in terms of its historical, association, aesthetic and representative values.

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Historical notes of provenance: Early development of locality:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: <http://www.sydneybarani.com.au/>

The locality of Darlington was earmarked for school uses from the early years of the colony. In 1801, the area was granted to the trustee of the Female Orphan Institution who leased out sections as an income source. The land was divided and parts re-granted by 1819. The Black Wattle Swamp Creek ran through parts of Darlington, resulting in swampy land in the location of the present Darlington Public School.

The 52 acres of land known as 'Golden Grove' or the 'Bullock Paddock' was granted to William Hutchinson in 1819. Thomas Shepherd also received 28.5 acres of land where he established a garden and nursery, named the 'Darling Nursery', in 1927. The name of the suburb was derived from Shepherd's nursery business.

The land was developed for housing from the 1850s. The municipality of Darlington was established in 1864. Eveleigh, as one of the largest employers in Sydney at the turn of the century, played a significant role in the development of the local area.

In 1879 the 'Golden Grove' Estate was subdivided into 36 sections for housing. By 1890 industries operating in Darlington included a jam factory, iron foundry, a zinc and brass works, two cabinet factories, a cordial factory, a portmanteau factory and other small industries. These industries generated a need for further residential development and also encouraged further sale of the 'Golden Grove' Estate to house the workers. The tram route then ran along Cleveland and Abercrombie Streets with stops at Wells, Codrington, Shepherd, Golden Grove and Wilson Streets to Newtown.

During the twentieth century, the importance of the Eveleigh railway yards declined as steam propulsion was replaced by diesel engines. During the 1920s the area became less desirable for residential purposes and by the 1940s the houses were considered slums.

The expansion of Sydney University from the late 1950s resulted in the redevelopment of a large area and the demolition of approximately 650 dwellings as well as shops, factories, the bank, post office, Town Hall and other amenities.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Site history:

The building was originally constructed in approximately 1883 as a boot and shoe factory for McMurtrie, Kellermann & Co. Between the 1920s and the 1960s, the building operated as the manufacturing works for Parkinson and W & B Cowan Ltd, which was one of only two manufacturers of gas meters in New South Wales.

The boot and shoe manufacturing business known as J and G McMurtrie originated in 1866 and became known as McMurtrie, Kellermann & Co in 1877 (Aldine Centennial History of NSW, 1888, Biographical entry for McMurtrie & Co).

On 4 July 1882, the land bounded by Wells (now Lawson), Ivy and Wilson Streets was purchased by George McMurtrie, Frederick Kellermann, and John Farleigh (Old System Deed, No 725 Bk 248). The land was mortgaged to the Mutual Life Association of Australasia on 2 February 1883, which was likely to have financed the construction of the factory (Old System Deed, No 374 Bk 263). McMurtrie, Kellermann & Co first appeared in the Sands Directory in 1884 at 95 Wells Street West, Redfern (Sands, Directory, 1884, p 304).

After the death of John Farleigh in 1884 and the retirement of Frederick Kellermann in early 1888, the firm became known as McMurtrie and Co (Aldine Centennial History of NSW, 1888, Biographical entry for McMurtrie & Co).

The factory was constructed on the northern part of the site and later extended to the south in stages. The 1888 survey showed the factory building on the northern part of the site facing Lawson Street and a separate building extending along the southern boundary of the site on Wilson Street (Lands Department, Metropolitan Detail Survey, Redfern, Sheet 24, 1888).

By 1888, the company was a large manufacturer of boots and shoes with its offices in Pitt Street and its factory in Wells Street (now Lawson Street). At this time, the company was considered to be the largest boot manufacturer in Australia and employed over 400 people. Products made by this company were sold in the Pacific Islands and every Australian state except Victoria. (Aldine Centennial History of NSW, 1888, Biographical entry for McMurtrie & Co)

George McMurtrie died on 14 May 1891 (Stamp Duties Office, Deceased Estate File, SRNSW 20/21B).

The 1893 detail survey showed the building on the northern part of the site facing Lawson Street marked as 'boot factory' (Lands Department, Metropolitan Detail Survey, Redfern, Sheet 24, 1888).

The company applied to convert the land to Torrens title on 24 July 1900 (RPA 11557). A certificate of title for the land then known as lots 1-9 of section 1 of the Golden Grove Estate was issued to McMurtrie & Co Ltd on 27 January 1901 (CT 1346 f 84).

On 27 August 1920, the site was purchased by Parkinson and W & B Cowan Ltd, a British Company established in 1900 to manufacture gas meters and other equipment (CT 1346 f 84).

A valuation of this site on 1 December 1920 recorded a detached boot factory constructed of brick and concrete with three floors, a basement and iron hipped roof. The site also contained an office, chimney stack, brick stables and coach house with six stalls and an iron roof (Valuer-General, Valuation Card, Redfern 13/7792, No 1029). A new valuation of the site on 1 July 1926 records that the site had hardly been altered, despite the new owner and different use of the site (Valuer-General, Valuation List, Redfern 19/9390, No 918).

The company, which was an amalgamation of two of the oldest British firms in the trade, was renamed Parkinson and Cowan in 1928 (http://www.gracesguide.co.uk/Parkinson_and_W._and_B._Cowan, accessed 3 Oct 2014). On 30 June 1931, Parkinson and Cowan Ltd sold the property to Parkinson and Cowan (Australasia) Ltd (CT 1346 f 84). This was the Australian subsidiary of the British company (SMH, 27 Oct 1931, p 6).

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

By 1935, the company was manufacturing gas meters from sheet metal as well as cast iron. The transition towards the use of sheet metal meant that a large skilled labour force was largely displaced by 'juvenile labour', causing a strike of 150 metal workers on the site in 1935 (SMH, 13 Nov 1935, p 17).

By 1940, the company was one of only two manufacturers of gas meters in New South Wales (Directory of Manufacturers of Australia, C E S Turner & Sons, Sydney and Melbourne, 1939-40, p 315).

A 1943 aerial photograph shows the factory building on the northern part of the site, and that a new western wing had been constructed along Ivy Street. The photograph also indicates the presence of another lower building located along the eastern boundary of the site in the location of the later additions.

On 5 March 1946, a press notice reported that Electricity Meter and Allied Industries Ltd had acquired the assets of Parkinson and Cowan (SMH, 5 March 1946, p 6). However, a notation on the certificate of title on 27 January 1961 recorded the company name as Parkinson Services Pty Ltd, suggesting that the business may have still been operating under this name (CT 1346 f 84).

On 14 December 1964, the building was purchased by Nedor Holdings Pty Ltd and was subsequently purchased by Damure Corporation Pty Ltd on 14 March 1988. On 6 August 1964, Nedor Holdings applied to use the premises for manufacturing handbags (181 Lawson Street, Street cards, NSCA). On 5 July 1989, Tullio Calgareo purchased the property (CT 1346 f 84). During the 1990s, the building was occupied by the Australia Council.

In 2002, the site was adaptively reused as residential units. This involved the construction of a new wing at the rear of the main factory building in the south-eastern corner of the site. The building now functions as a mixed use development with residential units and some commercial office space.

Themes:	National theme	State theme	Local theme
	3. Economy	Commerce	Warehouses
	3. Economy	Industry	Activities associated with the n
	3. Economy	Industry	Factories

Designer: Unknown

Builder: Unknown

Year started: 1882

Year completed: 1943

Circa: Yes

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Physical description: The building was constructed as a boot factory in approximately 1883 for McMurtrie, Kellermann and Co, with later additions in two main stages. The building is located on a prominent corner site at the junction of Ivy, Lawson, Abercrombie and Wilson Streets and Ivy Lane. The building has no setback from the Ivy, Abercrombie and Lawson Streets and occupies the majority of the site except for a courtyard area at the rear off Wilson Street.

The factory comprises a three to four storey brick building, including basement, contained under three hipped roof forms concealed behind parapet walls. The building contains three main phases of construction including the northern section constructed first, the early western wing along the Ivy Street boundary which continued the original building form and design, and a modern addition in the south-west corner of the site.

Although largely constructed during the late nineteenth century, the building is designed in the Federation warehouse architectural style. It exhibits typical features of this style including heavy masonry construction, parapet and cornice detailing emphasising the rectangularity of facades, contrasting polychromatic face brickwork, regular pilasters dividing facades into bays, the pattern of paired windows and strongly emphasised arches.

The facades are divided vertically into bays by rendered pilasters. Each storey of the building is distinguished by a projecting rendered spandrel. The corner of the building at the intersection of Ivy and Lawson Streets is pronounced by two closely spaced rendered pilasters.

The bays contain single or paired windows in different configurations for each level. The basement level has single arched windows with iron bars between each pilaster. The first and third storeys have paired windows contained under separate arches with continuous sills. The paired windows of the second storey are contained under two halves of a single arch. Entrances, likely the former loading docks for the factory, are emphasised by double-height arches spanning the width of bays. Contrasting polychromatic brickwork accentuate the arched window heads and openings along the length of the primary facades.

The former loading dock opening have been glazed. The central and eastern openings function as entrances.

A more recent three storey wing is located on the south-eastern corner of the site dating from 2002. A three-storey metal walkway has also been constructed on the eastern side of the western wing. The 2002 addition is visually distinguished from the former factory through its contemporary style, curved form and use of concrete, sheet metal cladding and aluminium framed windows.

The adaptive reuse of the building into residential units and offices has retained its architectural integrity as a recognisable former factory.

The roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Federation warehouse. Storeys: Three to four. Façade: Face brick.

Physical condition level: Good

Physical condition:
Archaeological potential level: Not assessed

Archaeological potential Detail:

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Modification dates: Timeline of known dates for changes to the site:

4 July 1882

Land bounded by Wells Street (now Lawson Street), Ivy Street and Wilson Street purchased by George McMurtrie, Frederick Kellermann and John Farleigh

2 February 1883

Land mortgaged to the Mutual Life Association of Australasia

1884

McMurtrie, Kellermann & Co boot manufacturers first appear at 95 Wells Street West, Redfern

1888

Detail survey sheet shows building on northern part of site facing Lawson Street

1893

Detail survey sheet shows building on northern part of site facing Lawson Street marked as 'Boot Factory'

24 July 1900

Application to convert the land to Torrens title

27 January 1901

Certificate of title for lots 1-9, section 1 of the Golden Grove Estate issued to McMurtrie & Co Ltd

Early twentieth century (date unknown)

Rear wing added to the factory building extending along the Ivy Street boundary of the site.

27 August 1920

Site sold to Parkinson and W & B Cowan Ltd

1 December 1920

Valuation of the site recorded a detached brick on concrete boot factory of three floors with basement, iron hipped roof, office and chimney stack, brick stables and coach house with six stalls and iron roof

30 June 1931

Parkinson and Cowan Ltd, originally Parkinson and W & B Cowan Ltd, sold the site to Parkinson and Cowan (Australasia) Ltd

5 March 1946

Press notice that Electricity Meter and Allied Industries Ltd Head acquired the assets of Parkinson and Cowan (Australasia) Pty Ltd

27 January 1961

Notation on title that company name is now Parkinson Services Pty Ltd

14 December 1964

Transferred to Nedor Holdings Pty Ltd

6 August 1964

Application by Nedor Holdings Application to use building for manufacturing handbags

14 March 1988

Damure Corporation Pty Ltd purchased the building

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

5 July 1989

Tullio Calgaro purchased the building

2002

Construction of a new wing in the south-eastern corner of the site and adaptive reuse of the building for residential units and offices

Recommended management: The building should be retained and conserved.

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival and photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

Do not paint, render or seal face brick walls.

Face brickwork, pilasters, arches, windows and other features from the original building and early extension should be conserved and maintained.

New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: **Management category**
Statutory Instrument

Management name
List on a Local Environmental Plan (LEP)

Further comments: Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.

Criteria a): Built in approximately 1883 as a boot factory for McMurtrie, Kellermann & Co and later converted to a gas meter manufacturing works for Parkinson and Cowan, this former factory represents the industrial development of Darlington from the late nineteenth century to the mid twentieth century. The building is historically significant for its connection to the Australian manufacturing of shoes from the 1880s to the 1920s and gas meters from the 1920s to the 1960s.

[Historical significance]

The former factory also represents the historical development of the labour movement as the site of large strikes in 1935 protesting the replacement of skilled with unskilled workers.

The former factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The building has significant associations with one of Australia's largest boot manufacturers, McMurtrie, Kellermann and Co, which employed over 400 people by 1888 and supplied boots throughout Australia and the Pacific Islands. The building is also associated with Parkinson and Cowan, who were one of only two manufacturers of gas meters in New South Wales by 1940.

[Historical association significance]

Item name: Former McMurtrie, Kellermann & Co factory including interiors

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Criteria c): Architecturally, the building represents a good example of a late nineteenth century factory designed in the Federation warehouse style with a consistent later extension. It demonstrates typical features of this style including heavy masonry construction, parapet and cornice detailing emphasising the rectangularity of facades, contrasting polychromatic face brickwork, regular pilasters dividing facades into bays, the pattern of paired windows and strongly emphasised arches. The adaptive reuse of the building into residential units and commercial offices retains its architectural integrity as a recognisable former factory.

[Aesthetic/
Technical
significance]

Through its prominent corner position, distinctive height and Federation features, the building is a landmark in the local neighbourhood marking the junction of five streets. The building is visible in the round from a number of near and distant vantage points and makes an important contribution to the surrounding streetscapes of Lawson, Ivy, Abercrombie and Wilson Streets and Ivy Lane.

Criteria d): Social assessment requires further study to ascertain its value to the local community. The building may hold significance to the former workers or their descendants of McMurtrie, Kellermann and Co boot manufacturers and Parkinson and Cowan gas meter manufacturers, both major former employers in the Darlington area.

[Social/Cultural
significance]

The site may also hold significance to the community as the source of boots and gas meters found in many Australian homes. The building's landmark qualities in the local neighbourhood may have value to recent and past residents as a point of reference and tangible connection to the industrial past of Darlington.

Criteria e):
[Research
significance]

Criteria f):
[Rarity]

Criteria g): The building represents a good example of a late nineteenth century factory in the Federation warehouse style with a consistent later extension.

[Representative]

Intactness/Integrity: Largely intact externally

References:	Author	Title	Year
	NSW Department of Lands	Metropolitan Detail Survey, Redfern, Sheet 24	1893
		Aldine Centennial History of NSW, biographical entry for McMurtrie	1888
	C E S Turner & Sons, Sydney and Melbourne	Directory of Manufacturers of Australia	1939
	Graces Guide - British Industrial History	Parkinson and W & B Cowan	2014
	Surveyor General's Office, Sydney NSW	City of Sydney Section Detail Sheets, Redfern, Sheet 24, 1888	1888
	Dr Terry Kass	Industrial and warehouse buildings research - site history	2014
	City of Sydney	City Building Surveyors Detail Sheet	1956
	City of Sydney	1949 Aerial Survey of the City of Sydney	1949
	RTA	Aerial Photographs of Sydney May-June 1943.	1943

Studies:	Author	Title	Number	Year
	City Plan Heritage	City of Sydney Industrial & Warehouse Buildings Heritage Study	1	2014

Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number
	LOT			SP	69741

Latitude:

Longitude:

Location validity:

Spatial accuracy:

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Map name:

Map scale:

AMG zone:

Easting:

Northing:

Listing: Name

Title

Number

ListingDate

City of Sydney Industrial and Ware Heritage study

Data entry: Data first entered: 06/08/2014

Data updated: 21/05/2015

Status: Completed

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: Ivy and Lawson Street elevations

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345d944f299353c4182ba2459fc08bf986b.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345d944f299353c4182ba2459fc08bf986b.JPG

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: Lawson Street elevation

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34575e746ac3060473b801a6fdb12716155.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34575e746ac3060473b801a6fdb12716155.JPG

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: South and eastern elevations of the western wing and courtyard at rear of site

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34593344fca623b4579ae5e7a780ddec450.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34593344fca623b4579ae5e7a780ddec450.JPG

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: South-eastern addition viewed from Ivy Lane

Copy right: City of Sydney

Image by: Claudine Loffi

Image date: 18/03/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3456a9c5e10caa141b2ae0b2ff9faecc69f.JPG>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3456a9c5e10caa141b2ae0b2ff9faecc69f.JPG

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: Extract from 1888 detail sheet showing the former factory site before the western wing extension

Copy right: State Library of New South Wales

Image by: City of Sydney Section Detail Sheets, Surveyor General's Office Sydney N.S.W

Image date: 01/01/1888

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345daa4cb3872ac4c8598e1b257073d1d9e.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test345daa4cb3872ac4c8598e1b257073d1d9e.jpg

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: 1949 aerial photograph showing the subject building and site circled

Copy right: City of Sydney

Image by: City of Sydney

Image date: 15/12/1949

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345e18936800fa746ff922f1ad9f2f9e122.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345e18936800fa746ff922f1ad9f2f9e122.jpg

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: 1956 detail sheet showing the subject site and surrounding industries

Copy right: City of Sydney

Image by: City of Sydney

Image date: 01/01/1956

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/34591c21508dc774066b1edec5b056c2508.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test34591c21508dc774066b1edec5b056c2508.jpg

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: Current aerial showing former factory site circled including the new south-eastern wing

Copy right: Lands and Property Information

Image by: RTA

Image date: 01/01/2014

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/345c5c638fc3a9f4dbab4dead68a8aeb75a.jpg>

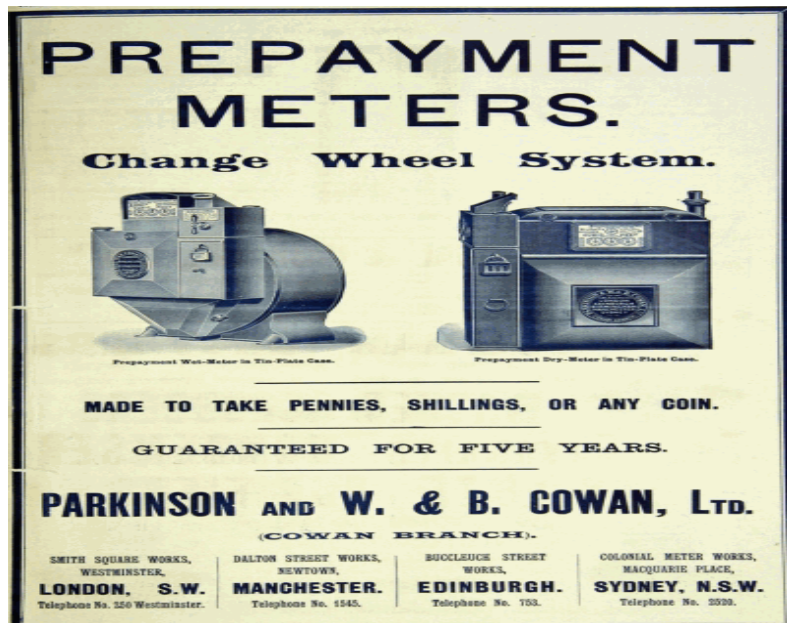
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/Thumb_test345c5c638fc3a9f4dbab4dead68a8aeb75a.jpg

Item name: Former McMurtrie, Kellermann & Co factory including interiors

Location: 181 Lawson Street Darlington 2008

Sydney

Image:



Caption: 1904 advertisement showing an example of the products made by Parkinson and W & B Cowan

Copy right: website: http://www.gracesguide.co.uk/Parkinson_and_W._and_B._Cowan

Image by: Image retrieved from Grace's Guide of British Industrial History

Image date: 01/02/1904

Image number:

Image url: <http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/3450da939363ac54702ba096a430878bd53.jpg>

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAPP/P/Thumb_test3450da939363ac54702ba096a430878bd53.jpg