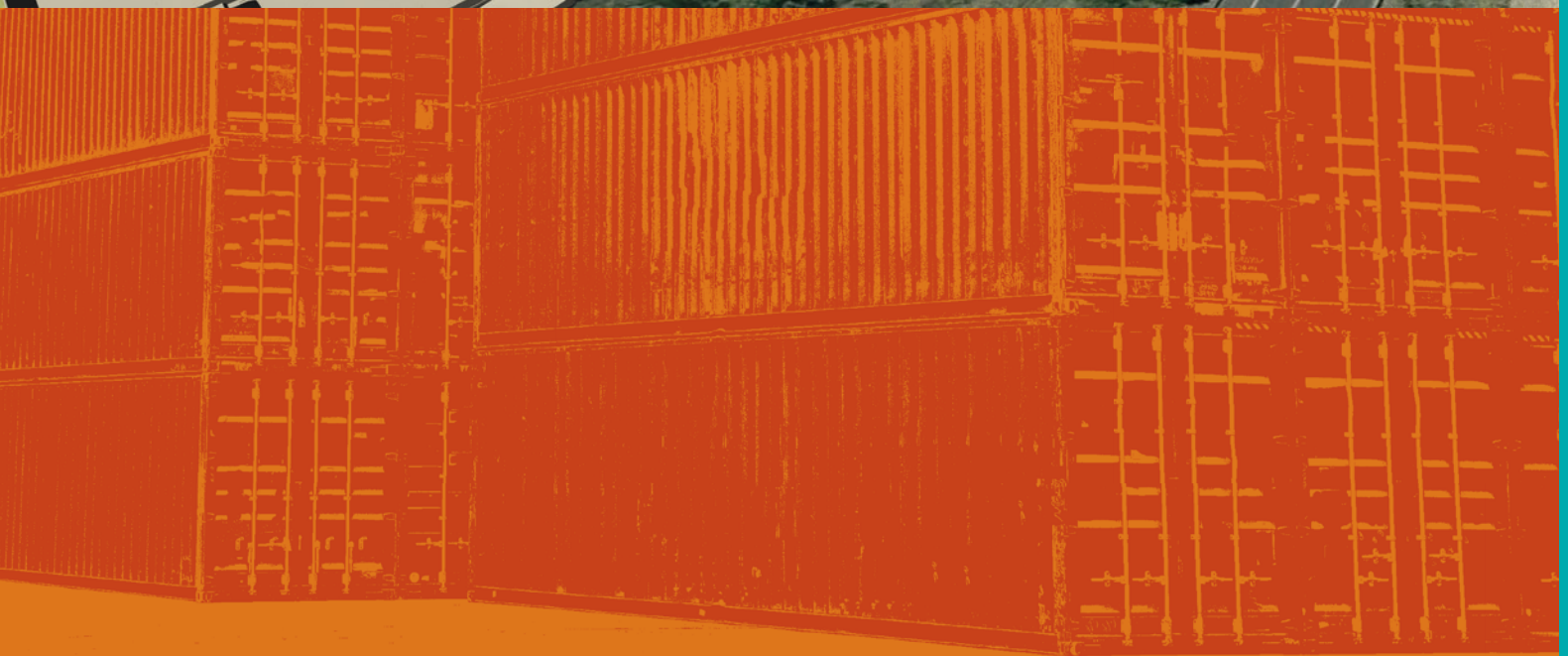


Appendix K Cultural Heritage Archival Recordings





School of Military Engineering Steele Barracks, Moorebank NSW

Cultural Heritage Archival Recordings:

- Grounds and Landscape
- STRARCH Hanger
- CUST Hut
- B99 Building
- Old Nursery Commemorative Garden
- EDD Cemetery and Memorial

17 October 2014



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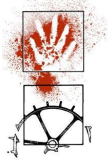
A Report to Parsons Brinkerhoff for
Moorebank Intermodal Company

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1. INTRODUCTION

1.1. Background to the Recording

In May 2010, the Australian Government tasked the (Commonwealth) Department of Finance and Deregulation (now the Department of Finance (DoF)), to conduct a Feasibility Study into the potential development of an intermodal terminal at Moorebank in south-west Sydney. The Government has determined that the School of Military Engineering (SME) will relocate to new purpose-built facilities at the nearby Holsworthy Barracks with the move to be completed by around mid-2015.

In April 2012, the Australian Government committed to development of the Moorebank Intermodal Terminal Project ('the Project'), after reviewing the findings of a detailed business case for the facility (CDFS Feb. 2012).

The Project is subject to both State and Commonwealth planning approval. The terminal is being assessed as a 'controlled action' under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Consequently an Environmental Impact Statement (EIS) for the project must be assessed and approved by the Commonwealth Minister for the Environment before the project can proceed. The project is also being assessed under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). The Project has been declared a State significant development under Part 4 of the EP&A Act.

Navin Officer Heritage Consultants Pty Ltd (NOHC) was commissioned in 2010 by Parsons Brinckerhoff to undertake a cultural heritage assessment for the Moorebank Defence precinct on behalf of DoFD as part of the Environmental Impact Statement (EIS) for the Project. Separate assessments of Aboriginal and Non-Aboriginal cultural heritage values within the Project area have been prepared (NOHC 2011, 2014a, b, & c). These assessments have incorporated staged investigations and included stakeholder consultations, historical research, field survey and recording, archaeological excavations and heritage and impact assessments.

In a separate and unrelated program, Defence activities on the proposed site are in the process of being relocated to Holsworthy Barracks. The transfer to Holsworthy Barracks is the objective of the Moorebank Units Relocation (MUR) Project. The MUR Project will include a program of relocation and management of a range of previously identified heritage items (ERM 2013). This program is separate and distinct from the impact mitigation actions associated with the Moorebank Intermodal Terminal Project.

The NOHC European heritage assessment of the Project area concluded that a priority of an impact mitigation and management program, would be the archival recording of all those items of Commonwealth, State and Local significance in the project area not already included in the MUR Project (NOHC 2014c). This record would also need to include a record of salient physical aspects of the Moorebank Cultural Landscape (NOHC 2014c:228).

The following items were identified as subjects of a required archival recording prior to development impacts:

- CUST Hut (CUST is an acronym for Cullen Universal Steel Truss);
- RAAF STRARCH Hangar;
- B99 Building (including the Transport Compound Workshop);
- Explosive Detection Dog (EDD) Cemetery and Memorial (Recording MH1);
- Commemorative Garden (Recording MH6); and
- Significant components of the Project area grounds and landscape context.

This report has been produced in fulfilment of these recommended actions.



1.2 Project Area and Item Locations

The Project site is situated on land in the Sydney suburb of Moorebank, NSW. The site is approximately 220 hectares (ha) in area, and is variously bounded in the north by the M5 South Western Motorway, in the west by the Southern Freight Rail Corridor, in the south by the East Hills Railway line, and in the east by Moorebank Avenue. All of the Defence lands, to which the archival record was limited, occur to the east of the Georges River.

The location of the items subject to archival recording are shown in Figure 1.1.

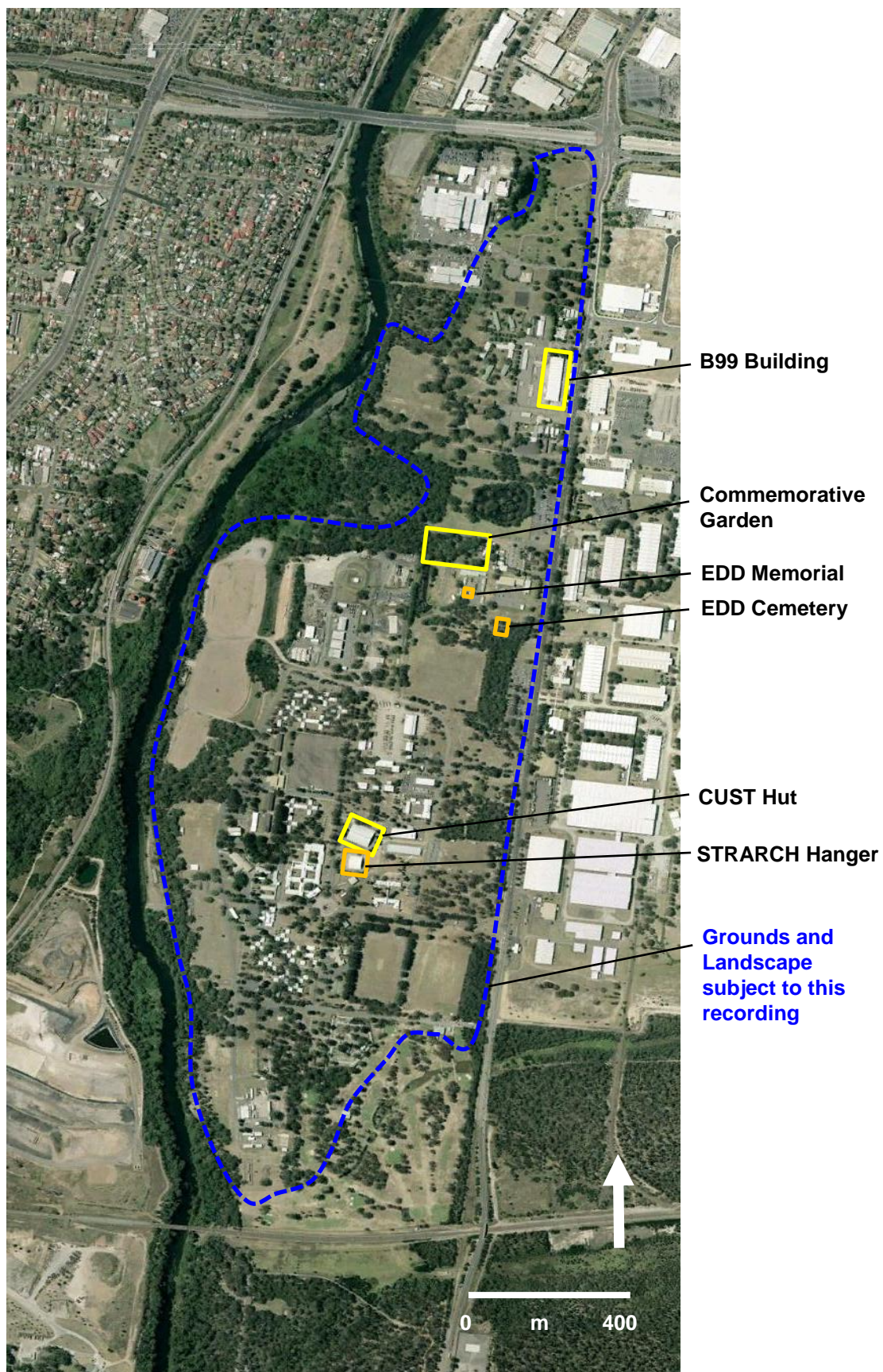


Figure 1.1 General location of sites and areas subject to archival recording (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009).



2. METHODOLOGY

2.1 Tasks

This project involved the following tasks:

- Preparation of scale site plans as required, including the measurement of salient dimensions, aspects and materials
- Creation of a digital photographic record, including recording required metadata
- Limited additional research of documentary and oral sources
- Data review, processing and compilation
- Report writing and production

2.2 Field Program

The conduct of the field recording program occurred between the following inclusive dates: 1-4, 7-11 and 24 July 2014.

2.3 Project Personnel

NOHC personnel involved in the project were:

Kelvin Officer	archaeologist, project direction, field recording and report writing
Oliver McGregor	archaeologist, field assistant
Nicola Hayes	archaeologist, projects logistics

The assistance of the following Defence personnel is also gratefully acknowledged:

Major Theo Kolyvas	Information relating to the CUST Hut
Major Fred Cox	Explosive Detection Dog Section, information relating to the cemetery and memorial
Sebastian Spencer	Curator, Australian Army Museum of Military Engineering
Rakesh Bansal MR	Regional Information Officer NSW (Syd W/S), provision of archived plans
Catherine Dodd MRS	Senior Base Support Operations Officer, administration
Justin Clark MR 2	Base Support Operations Officer, daily administration and logistics
Wayne Palejs MR	Manager, Base Support Operations
Richard Young WO1	Site access

2.4 Field Equipment Utilised

Survey

The following survey equipment was used:

- Garmin GPS 12 (hand held GPS unit, non-differential signal);
- 8 m, 50 m and 100 m tape measures;
- SILVA sighting and cartographic compass (type 4/54); and
- Tan 45° sighting triangle to measure heights.



Photography

The photographic record was restricted to colour digital formats.

All photos were captured using a Nikon D200 digital single-lens reflex camera (CCD: 23.6 x 15.8 mm; 3872 x 2592 pixels; total pixels: 10.92 million). Photos were stored in both JPEG (Fine) file format (JPEG image at a compression ratio of roughly 1:4) and NEF (Nikon Electronic Format) raw data format.

Lenses used with the D200 were:

- Nikon AF Nikkor 28-200mm 1:3.5-5.6D;
- Nikon AF Nikkor 35-80mm 1:4-5.5D; and
- Sigma 10-20mmD 1:4-5.6 DC HSM (used for extreme wide angle views).

All photos where the subject is the built environment include a graduated metric scale. In some cases images without scales have also been provided. Two forms of scale were used:

- A standard (rigid extendable) surveyor's staff, graduated in 10 mm intervals, up to 5m in length; and
- A Yamayo 'Mini-Rod' (retractable) scale, graduated in 5 mm intervals.

2.5 Standards and Guidelines

This record complies with the standards and guidelines specified by the Heritage Branch of the NSW Office of Environment and Heritage for photographic recording of heritage items using digital capture (NSW Heritage Office 2006). This standard also satisfies the requirements of the Commonwealth Department of the Environment.

2.6 Comments and Limitations

A search for relevant plans and drawings by Defence at the time of the survey and report preparation resulted in the provision of one plan only - a ground floor plan of the B99 building, created for refurbishment works in 1993 (Figure 8.16). All other plans of recorded structures presented in this report have been prepared by NOHC. The purpose of these plans is to supplement the photographic record, and in particular to assist in documenting the location and direction of photos.

The scope of the Grounds and Landscape photographic record was constrained by Defence requirements to avoid direct photography of Defence personnel, Defence training activities, residential buildings, or other Defence assets not specifically the subject of the archival recording brief.

Plans and an installation manual for the STRARCH Hanger were provided at the end of report preparation and have been included as digital scans on the data disk which forms part of this report.

A limited number of archive images have been sourced and are presented as background information. This record does not however seek to provide a systematic historical background to the items recorded. For historical and background information on Defence occupation of the project area, on the recorded items, users are referred to the historical background presented in the 2014 NOHC European assessment for the Project (NOHC 2014c).



3. SIGNIFICANCE ASSESSMENTS

3.1 NSW assessment criteria

The NSW Heritage Branch has defined a methodology and set of criteria for the assessment of cultural heritage significance for items and places, where these do not include Aboriginal heritage from the pre-contact period (NSW Heritage Office & DUAP 1996, NSW Heritage Office 2000). The assessments provided in this report follow the Heritage Branch methodology.

The following heritage assessment criteria are those set out for Listing on the State Heritage Register. In many cases items will be significant under only one or two criteria. The State Heritage Register was established under Part 3A of the *Heritage Act* (as amended in 1999) for listing of items of environmental heritage that are of state heritage significance. Environmental heritage means those places, buildings, works, relics, moveable objects, and precincts, of state or local heritage significance (section 4, *Heritage Act 1977*).

An item will be considered to be of State (or local) heritage significance if, in the opinion of the Heritage Council of NSW, it meets one or more of the following criteria:

- Criterion (a)** an item is important in the course, or pattern, of NSW's cultural or natural history (or the cultural or natural history of the local area);
- Criterion (b)** an item has strong or special association with the life or works of a person, or group of persons, of importance in NSW's cultural or natural history (or the cultural or natural history of the local area);
- Criterion (c)** an item is important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in NSW (or the local area);
- Criterion (d)** an item has strong or special association with a particular community or cultural group in NSW (or the local area) for social, cultural or spiritual reasons;
- Criterion (e)** an item has potential to yield information that will contribute to an understanding of NSW's cultural or natural history (or the cultural or natural history of the local area);
- Criterion (f)** an item possesses uncommon, rare or endangered aspects of NSW's cultural or natural history (or the cultural or natural history of the local area); and
- Criterion (g)** an item is important in demonstrating the principal characteristics of a class of NSW's
 - cultural or natural places; or
 - cultural or natural environments.
 - (or a class of the local area's
 - cultural or natural places; or
 - cultural or natural environments.)

An item is not to be excluded from the Register on the ground that items with similar characteristics have already been listed on the Register. Only particularly complex items or places will be significant under all criteria.

In using these criteria it is important to assess the values first, then the local or State context in which they may be significant.

Different components of a place may make a different relative contribution to its heritage value. For example, loss of integrity or condition may diminish significance. In some cases it is constructive to note the relative contribution of an item or its components. Table 9.1 provides a guide to ascribing relative value.



Table 9.1 Guide to ascribing relative heritage value

Grading	Justification	Status
Exceptional	Rare or outstanding item of local or State significance. High degree of intactness Item can be interpreted relatively easily.	Fulfils criteria for local or State listing.
High	High degree of original fabric. Demonstrates a key element of the item's significance. Alterations do not detract from significance.	Fulfils criteria for local or State listing.
Moderate	Altered or modified elements. Elements with little heritage value, but which contribute to the overall significance of the item.	Fulfils criteria for local or State listing.
Little	Alterations detract from significance. Difficult to interpret.	Does not fulfil criteria for local or State listing.
Intrusive	Damaging to the item's heritage significance.	Does not fulfil criteria for local or State listing.

3.2 Commonwealth assessment criteria

The Commonwealth Heritage List is a register of natural and cultural heritage places owned or controlled by the Australian Government. These may include places associated with a range of activities such as communications, customs, defence or the exercise of government. The *Environment Protection and Biodiversity Conservation Act 1999* establishes this list and nominations are assessed by the Australian Heritage Council.

In accordance with the *Environment Protection and Biodiversity Conservation Act 1999* a place has a Commonwealth Heritage value if it meets one of the Commonwealth Heritage criteria (section 341D).

A place meets the Commonwealth Heritage listing criterion if the place has significant heritage value because of one or more of the following:

The Commonwealth Heritage Criteria (SEWPaC 2011) for a place are any or all of the following:

- The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history.
- The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history.
- The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history.
- The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:



- i) A class of Australia's natural or cultural places, or
 - ii) A class of Australia's natural or cultural environments.
- e) The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.
 - f) The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.
 - g) The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.
 - h) The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.
 - i) The place has significant heritage value because of the place's importance as part of Indigenous tradition.

Note: The cultural aspect of a criterion means the Indigenous cultural aspect, the non-Indigenous cultural aspect, or both.

Thresholds

While a place can be assessed against the above criteria for its heritage value, this may not always be sufficient to determine whether it is worthy of inclusion on the Commonwealth Heritage List. The Australian Heritage Council may also need to use a second test, by applying a 'significance threshold', to help it decide. This test helps the Council to judge the level of significance of a place's heritage value by asking 'just how important are these values?'

To be entered on the Commonwealth Heritage List a place will usually be of local or state-level significance, but must have 'significant' heritage value.

Commonwealth Heritage Management Principles

In addition to the above criteria and thresholds, Schedule 7B of the Environment Protection and Biodiversity Conservation Regulations 2000 (Regulation 10.03D) lists the Commonwealth Heritage Management Principles. These principles are:

1. The objective in managing Commonwealth Heritage places is to identify, protect, conserve, present and transmit, to all generations, their Commonwealth Heritage values.
2. The management of Commonwealth Heritage places should use the best available knowledge, skills and standards for those places, and include ongoing technical and community input to decisions and actions that may have a significant impact on their Commonwealth Heritage values.
3. The management of Commonwealth Heritage places should respect all heritage values of the place and seek to integrate, where appropriate, any Commonwealth, State, Territory and local government responsibilities for those places.
4. The management of Commonwealth Heritage places should ensure that their use and presentation is consistent with the conservation of their Commonwealth Heritage values.
5. The management of Commonwealth Heritage places should make timely and appropriate provision for community involvement, especially by people who:
 - a) Have a particular interest in, or associations with, the place; and



- b) May be affected by the management of the place.
6. Indigenous people are the primary source of information on the value of their heritage and that the active participation of indigenous people in identification, assessment and management is integral to the effective protection of indigenous heritage values.
 7. The management of Commonwealth Heritage places should provide for regular monitoring, review and reporting on the conservation of Commonwealth Heritage values.

When assessing the Commonwealth heritage significance of places within the study area in addition to applying the primary and secondary tests of the Commonwealth Heritage Listing criteria and the significance thresholds, reference also needs to be made to the above Commonwealth Heritage Management Principles. The latter is particularly relevant to the study area where there are:

- Other heritage values of the place that are the responsibility of the ACT Government (Principle 3); and
- A number of indigenous places for which the primary source of information on the value of their heritage has been provided through the active participation of local Aboriginal communities (Principle 6).



3.3 Moorebank Cultural Landscape

3.3.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

The Moorebank Cultural Landscape is comprised of natural features, archaeological deposits and the built environment. Together these components evidence a range of historical themes spanning Indigenous occupation, early European settlement and over 100 years of military training. As such, the landscape contains a palimpsest of human occupation that reflects the cultural history of the local area.

Criterion (b): strong or special association with the life or works of a person, or persons

The name Moorebank references the fact that much of the study area corresponds to Thomas Moore's early land grant and the establishment and subdivision of the Moorebank Estate. Moorebank has since become a place closely associated with military training. The location of the Moorebank Cultural Landscape and the historical themes evidenced within it have a special association with the life of Thomas Moore and a strong association with the life and works of various military personnel, particularly the sappers who have lived and trained on site.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

While the Moorebank Cultural Landscape is not as a whole notable for its aesthetic characteristics, there are elements within the landscape that demonstrate a high degree of creative or technical achievement (e.g. the CUST Hut, RAAF STRARCH Hangar and various bridges within the Australian Army of Military Engineering collection). More generally, the landscape and its setting provide a contrast to the surrounding landscape through its smaller scale buildings and high percentage of grassland and mature vegetation (soft landscaping) across the site. In these regards the landscape and/or its elements are notable at a local level for technical achievement and to a lesser extent aesthetic characteristics.

Criterion (d): strong or special association with a particular community or cultural group

The Moorebank Cultural Landscape evidences various phases of occupation and use, however the themes that are most clearly represented by the landscape today are those associated with the Defence use of the area, in particular the housing and training for the SME. As such, the Moorebank Cultural Landscape is assessed as having an implicit special association with the SME. It also has a special association with the Aboriginal community as identified in the Aboriginal Heritage Assessment report (NOHC 2013).

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

As a whole, the Moorebank Cultural Landscape does not display the potential to yield information that would contribute to an understanding of cultural history. However, the archaeological deposits at MHPAD1 and MHPAD2, and potentially any deposits associated with the CUST Hut, do have potential to provide insights into specific aspects of the history and use of the site during the last 100 years.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

The palimpsest evidenced within the Moorebank IMT is locally unique in that it still displays landscape elements that reflect characteristics of the landscape prior to European settlement, as well as archaeological deposits, tree plantings and a built environment that reflect various phases of pre-military and Defence occupation and use. There are also much more indirect references to the early European settlement through places names, changes to vegetation and the presence of occasional fragments of material culture from the 19th century. In this regard, the landscape is



locally unique when compared with the broader landscape of residential and industrial development.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

The characteristics most clearly evidenced within the Moorebank Cultural Landscape are those that relate to the last 100 years or so of Defence use. The current landscape, including its spatial organisation, toponyms, buildings, moveable items, training areas, memorials, recreation areas and archaeological deposits is representative of an adaptive landscape that has seen multiple phases of use dedicated to military training and associated activities. The Moorebank IMT Project area, and the SME site in particular, is an important local example of this type of cultural landscape.

3.3.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

The Moorebank Cultural Landscape is comprised of natural features, archaeological deposits and the built environment. Together these components evidence a range of historical themes spanning Indigenous occupation, early European settlement and over 100 years of military training. As such, the landscape contains a palimpsest of human occupation that reflects the cultural history of the local area.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

The palimpsest evidenced within the Moorebank IMT is locally unique in that it still displays landscape elements that reflect characteristics of the landscape prior to European settlement, as well as archaeological deposits, tree plantings and a built environment that reflect various phases of military occupation and use. There are also much more indirect references to the early European settlement through place names, changes to vegetation and the presence of occasional fragments of material culture from the 19th century. In this regard, the landscape is locally unique when compared with the broader landscape of residential and industrial development.

Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

As a whole, the Moorebank Cultural Landscape does not display the potential to yield information that would contribute to an understanding of Australia's natural or cultural history. However, the archaeological deposits at MA5, MA9, MHPAD1 and MHPAD2, and potentially any deposits associated with the CUST Hut, do have potential to provide insights into specific aspects of Indigenous cultural history and the history of Australian Army use during the last 100 years.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

- i) A class of Australia's natural or cultural places, or
- ii) A class of Australia's natural or cultural environments.

The characteristics most clearly evidenced within the Moorebank Cultural Landscape are those that relate to the last 100 years or so of military use. The current landscape, including its spatial organisation, toponyms, buildings, moveable items, training areas, memorials, recreation areas and archaeological deposits is representative of a landscape that has seen multiple phases of use dedicated to military training and associated activities. The Moorebank IMT Project area and the SME site in particular, is an important local example of this type of cultural landscape.



Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

While the Moorebank Cultural Landscape is not as a whole notable for its aesthetic characteristics, the landscape and its setting provide a contrast to the surrounding landscape through its smaller scale buildings and high percentage of grassland and mature vegetation (soft landscaping) across the site. In these regards the landscape and/or its elements are locally notable for their aesthetic characteristics

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

There are various elements within the Moorebank Cultural Landscape that demonstrate a high degree of creative or technical achievement (e.g. the CUST Hut, RAAF STRARCH Hangar and various bridges within the Australian Army of Military Engineering collection).

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

The Moorebank Cultural Landscape evidences various phases of occupation and use, however the themes that are most clearly represented by the landscape today are those associated with the military use of the area, in particular the housing and training for the SME. As such, the Moorebank Cultural Landscape is assessed as having an implicit special association with the SME. It also has a special association with the Aboriginal community as identified in the Aboriginal Heritage Assessment report (NOHC 2013).

Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

The name Moorebank references the fact that much of the study area corresponds to Thomas Moore's early land grant and the establishment and subdivision of the Moorebank Estate. Moorebank has since become a place closely associated with military training. The location of the Moorebank Cultural Landscape and the historical themes evidenced within it have a special association with the life of Thomas Moore and a strong association with the life and works of various military personnel, particularly the Australian Army Military Engineers who have lived and trained on site.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

Despite the fact that the present landscape across the Moorebank IMT project area is largely identified with its more recent military heritage, there are a number of elements within that landscape that have been identified by the Aboriginal community as having importance because of their association with Indigenous tradition (NOHC 2013). So while the current landscape is not broadly identified for its importance in terms of Indigenous tradition, the Aboriginal cultural values identified within the project area elevate the social significance of the Moorebank Cultural Landscape.

3.3.3 Statement of heritage significance

The Moorebank Cultural Landscape is the product of numerous phases of landscape occupation and use spanning Indigenous occupation (pre-European settlement) through to the present day. Many of these phases of use and associated cultural history patterns are evidenced within different portions of the landscape. The toponyms, buildings, spatial organisation, memorials, archaeological deposits and elements of the natural landscape have various strong and/or special associations with Thomas



Moore, the Australian Army (particularly the SME) and the Aboriginal community. Furthermore, the archaeological deposits identified within the project area have the potential to yield information that would contribute to an understanding of its cultural history. The landscape as a whole is also notable as a locally distinct and representative cultural landscape.

This item is significant at a local level against NSW criteria A, B, C, D, E, F and G.

This item is significant against Commonwealth heritage listing criteria A, B, D, E, F, G, and H.



3.4 STRARCH Hanger

3.4.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

This item is assessed as not having significance against this criterion.

Criterion (b): strong or special association with the life or works of a person, or persons

This item is assessed as not having significance against this criterion.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

The RAAF STRARCH Hangar demonstrates aesthetic characteristics and/or a high degree of creative or technical achievement. This building is a unique example of a RAAF STRARCH re-deployable hangar. SME management believes the Hangar may be the only example of this design still in Defence ownership in Australia. This statement has not been confirmed in research for this report. The construction system is unique and was developed to provide prefabricated quick erection Hangars to house F111 fighters. The system has since been developed for non-Defence commercial use and the company now operates as STRARCH International Ltd. (at the time of hangar construction was STRARCH Australia). This building, being still owned by Defence, consequently retains an historic connection to its original design use, to house the F111 Squadron when they first arrived in Australia.

This site meets this criteria at a local and state level.

Criterion (d): strong or special association with a particular community or cultural group

This item is assessed as not having significance against this criterion.

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

This item is assessed as not having significance against this criterion.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

This item is assessed as not having significance against this criterion.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

This item is assessed as not having significance against this criterion.

3.4.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

iii) A class of Australia's natural or cultural places, or



iv) A class of Australia's natural or cultural environments.

This item is assessed as not having significance against this criterion.

Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

This item is assessed as not having significance against this criterion.

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

Yes, the RAAF STRARCH Hangar demonstrates a high degree of creative or technical achievement at a particular period. This building is a unique example of a RAAF STRARCH re-deployable hangar and was erected on the site around 2007. SME management believes the Hangar may be the only example of this design still in Defence ownership in Australia. This statement has not been confirmed in research for this report. The construction system is unique and was developed to provide prefabricated quick erection Hangars to house F111 fighters. The system has since been developed for non-Defence commercial use and the company now operates as STRARCH International Ltd. (at the time of hangar construction was STRARCH Australia). This building, being still owned by Defence, consequently retains an historic connection to its original design use, to house the F111 Squadron when they first arrived in Australia.

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

This item is assessed as not having significance against this criterion.

Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

This item is assessed as not having significance against this criterion.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

This item is assessed as not having significance against this criterion.

3.4.3 Statement of heritage significance

The integrity and intactness of this structure provides for a high level of technical significance, whilst not possessing associated archaeological research potential. Refer to Museum Collection regarding items within structure.

The integrity, uniqueness and intactness of this structure provides for a high level of technical significance.

This site has local and state significance against NSW criterion C.

This site is significant against Commonwealth heritage listing criterion F.



3.5 Cullen Universal Steel Truss Hut

3.5.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

The CUST Hut is important in the history of building design and development of the SME during the mid-twentieth century.

This item has significance against this criterion at local and State levels.

Criterion (b): strong or special association with the life or works of a person, or persons

Standing for Cullen Universal Steel Truss, the CUST Hut was invented by an engineering officer, Lieutenant Colonel D.R. (Dan) Cullen, during World War II. He had served with the 7th Division Engineers in the Middle East where he also designed a series of bridges with rolled steel joists. On his return to Australia in 1942, he was one of the select group of officers handpicked to revamp the courses at SME. After the war, Cullen served in the Occupation Force in Japan where, in collaboration with another engineering officer, he had planned the new city of Hiroshima. He died in July 1971.

This item has significance against this criterion at local and State levels.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

The CUST Hut is important in demonstrating technical innovation and achievement during the post-World War II period.

This item has significance against this criterion at local and State levels.

Criterion (d): strong or special association with a particular community or cultural group

This item is assessed as not having significance against this criterion.

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

Given that the CUST Hut originally had an earth floor that has since been replaced with concrete, there is good potential for relatively intact archaeological deposits associated with early phases of the building's history. As such, there is potential for archaeological investigations at this site to yield information that would contribute to an understanding of the construction and use of this structure.

This item has significance against this criterion at a local level.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

The CUST Hut is one of the oldest surviving building in the SME site. It is a rare example of a Cullen Unified Steel Truss building still in use and more so in military ownership in New South Wales.

This item has significance against this criterion at local and State levels.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

The CUST Hut is a representative example of a Cullen Universal Steel Truss building. The site's significance against this criterion is enhanced by its high level of integrity.

This item has significance against this criterion at local and State levels.



3.5.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

The CUST Hut is important in the history of military building design in Australia during the mid-twentieth century.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

The CUST Hut is the oldest surviving building in the SME site. It is a rare example of a Cullen Unified Steel Truss building still in use and more so in military ownership in New South Wales.

Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

There is good potential for relatively intact archaeological deposits associated with early phases of the building's history. As such, there is potential for archaeological investigations at this site to yield information that would contribute to an understanding of the construction and use of this structure.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

v) A class of Australia's natural or cultural places, or

vi) A class of Australia's natural or cultural environments.

The CUST Hut is a representative example of a Cullen Universal Steel Truss building. The site's significance against this criterion is enhanced by its high level of integrity.

Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

This item is assessed as not having significance against this criterion.

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

The CUST Hut is important in demonstrating technical innovation and achievement during the post-World War II period.

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

This item is assessed as not having significance against this criterion.



Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

Standing for Cullen Universal Steel Truss, the CUST Hut was invented by an engineering officer, Lieutenant Colonel D.R. (Dan) Cullen, during World War II. He had served with the 7th Division Engineers in the Middle East where he also designed a series of bridges with rolled steel joists. On his return to Australia in 1942, he was one of the select group of officers handpicked to revamp the courses at SME.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

This item is assessed as not having significance against this criterion.

3.5.3 Statement of heritage significance:

The CUST Hut is the oldest surviving building in the SME site. It is a rare example of a Cullen Unified Steel Truss building still in use and more so in military ownership in New South Wales. The building has historic significance to the SME site and technical significance of an increasingly rare construction system for clear span vaulted warehouses.

The CUST Hut has a strong and special association with Lieutenant Colonel D.R. (Dan) Cullen. It is important in the history and development of the SME site. The integrity and intactness of this structure provides for a high level of technical significance. The possible subsurface integrity of this site represents significant archaeological research potential at a local level.

This site is significant against NSW criteria A, B, C, E, F and G.

This site is significant against Commonwealth heritage listing criteria A, B, C, D, F and H.



3.6 B99 Building

3.6.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

Building 99 is a large workshop that was constructed prior to 1943. It is the only remaining *in situ* building from the WWII period at Moorebank. The importance of the workshop in the course or pattern of Moorebank's history is difficult to interpret given the loss of context from contemporary buildings. This loss of context detracts from the item's historical value.

Building 99 contributes to the historical significance of The Moorebank Cultural Landscape, however it is not of itself assessed to have significance against this criterion.

Criterion (b): strong or special association with the life or works of a person, or persons

This item is assessed as not having significance against this criterion.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

Building 99 is not notable in terms of its aesthetic characteristics, nor does it display a high degree of technical achievement.

Criterion (d): strong or special association with a particular community or cultural group

This item is assessed as not having significance against this criterion.

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

Building 99 displays evidence of different phases of use in the form of building modifications. However, it does not have potential to yield new, or otherwise unavailable, information that will contribute to an understanding of local or State history.

This item is assessed as not having significance against this criterion.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

Building 99 is not an unusual, rare or endangered structure type. Similar buildings exist across Australia. However it is locally rare, within the context of the Moorebank Cultural Landscape, as a WWII era building that remains *in situ*.

Building 99 is assessed to be of local significance against this criterion.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

Building 99 is typical of saw tooth roofed warehouses from the early to mid-twentieth century. However, the walls and roof were reclad during the 1990s, which detracts from the place's importance in demonstrating the principal characteristics of such structures.

This item does not have significant heritage value in terms of its representativeness.

3.6.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

Building 99 is a large workshop that was constructed prior to 1943. It is the only remaining *in situ* building from the WWII period at Moorebank. The importance of the workshop in the course or pattern of Moorebank's history is difficult to interpret



given the loss of context from contemporary buildings. This loss of context detracts from the item's historical value.

Building 99 contributes to the historical significance of The Moorebank Cultural Landscape, however it is not of itself assessed to have significance against this criterion.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

Building 99 is not an unusual, rare or endangered structure type. Similar buildings exist across Australia and similar buildings are listed on the CHL at Amberley RAAF Base Group, Archerfield Airport Heritage Precinct, RAAF Base Fairbairn Group, RAAF Base Richmond and the former Salisbury Explosives Factory.

This item is assessed as not having significance against this criterion.

Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

Building 99 displays evidence of different phases of use in the form of building modifications. However, it does not have potential to yield new, or otherwise unavailable, information that will contribute to an understanding of Australia's natural or cultural history.

This item is assessed as not having significance against this criterion.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

vii) A class of Australia's natural or cultural places, or

viii) A class of Australia's natural or cultural environments.

Building 99 is typical of saw tooth roofed warehouses from the early to mid-twentieth century. However, the walls and roof were reclad during the 1990s, which detracts from the place's importance in demonstrating the principal characteristics of such structures.

This item does not have significant heritage value in terms of its representativeness.

Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

Building 99 is not notable in terms of any aesthetic characteristics valued by a community or cultural group. This item is assessed as not having significance against this criterion.

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

Building 99 is not notable in terms of technical achievement. This item is assessed as not having significance against this criterion.

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

This item is assessed as not having significance against this criterion.

Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

Despite the structure's implicit connection with WWII military personnel, Building 99 has not been identified as a place of special association with the Australian Army.



This item is assessed as not having significance against this criterion.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

This item is assessed as not having significance against this criterion.

3.6.3 Statement of heritage significance:

The Transport Compound Workshop is locally rare, within the context of the Moorebank Cultural Landscape, as a WWII era building that remains *in situ*. This building also contributes to the historical significance of The Moorebank Cultural Landscape.

This item is significant at a local level against NSW criterion F.

This item does meet the threshold for listing against any Commonwealth Heritage List criteria.



3.7 Commemorative Garden

3.7.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

The commemorative Garden is important in the course of cultural history, as it incorporates both a Gallipoli memorial, as well as a rockery constructed of materials of local heritage value to the Moorebank area.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the Gallipoli battle, which is a hugely important event in the course of Australia's cultural history.

A small rockery present in the garden, with a plaque referring to the materials as having come "from the 'Grondno (sic) Winery' circa. 1870, which was located on the Holsworthy Firing Range". The use of pre-Defence era materials from the Grodno Winery site suggests that the garden's creators sought to incorporate and recognise local heritage values, and document the evolution of site use within the Moorebank precinct.

Criterion (b): strong or special association with the life or works of a person, or persons

The Commemorative Garden has a strong and special connection with the life and works of persons, and these are in the form of plaques and associated plantings at the site.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the ANZAC's who served in Gallipoli.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

This item is assessed as not having significance against this criterion.

Criterion (d): strong or special association with a particular community or cultural group

The Commemorative Garden has a strong and special association with a cultural group, and this is in the form of a plaques and associated plantings at the site.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the ANZAC's who served in Gallipoli.

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

This item is assessed as not having significance against this criterion.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

This item is assessed as not having significance against this criterion.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

This item is assessed as not having significance against this criterion.



3.7.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

The Commemorative Garden is important in the course of cultural history, incorporating a Gallipoli memorial.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the Gallipoli battle, which is a hugely important event in the course of Australia's cultural history.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

ix) A class of Australia's natural or cultural places, or

x) A class of Australia's natural or cultural environments.

This item is assessed as not having significance against this criterion.

Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

This item is assessed as not having significance against this criterion.

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

This item is assessed as not having significance against this criterion.

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

The Commemorative Garden has a strong and special association with a cultural group, and this is in the form of a plaques and associated plantings at the site.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the ANZAC's who served in Gallipoli.

Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

The Commemorative Garden has a strong and special connection with the life and works of persons, and these are in the form of plaques and associated plantings at the site.

There are four pine tree plantings in the garden. One, or perhaps all of these, may be the subject of one of the garden plaques which states that 'These pine trees



were grown from seeds obtained from the Lone Pine trees at Gallipoli'. This memorial has a strong association with the ANZAC's who served in Gallipoli.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

This item is assessed as not having significance against this criterion.

3.7.3 Statement of heritage significance:

The Commemorative Garden as a memorial possesses significant social value at a local level whilst not possessing archaeological research potential.

This site is significant against NSW criteria A, B, and D.

This site is significant against Commonwealth heritage listing criteria A, G, and H.



3.8 Explosives Detection Dog Cemetery and Memorial

3.8.1 Analysis against NSW significance criteria

Criterion (a): important in the course, or pattern, of cultural history

The EDD cemetery and Memorial combine to form an important site which relates to the history and development dog training within the Australian military. The use, material form, and configuration of the two areas relate directly to the policies and practice of the dog training unit through time. Dog training began at the SME for a brief period in the 1950s, and then recommenced in 1969 with the Vietnam War. The cemetery is thought to date from this period, and the Memorial from the 1990s.

Criterion (b): strong or special association with the life or works of a person, or persons

The cemetery and Memorial have strong and special association with persons who worked as dog trainers and/or dog handlers. The fact that many of the dogs names are preserved on wood and in stone increases the likely hood that persons may feel a strong connection to some of the dog graves at this site. The central stone in the Memorial is dedicated to the memory of 'all past and present search dogs and their handlers'.

Criterion (c): important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement

This item is assessed as not having significance against this criterion.

Criterion (d): strong or special association with a particular community or cultural group

The cemetery and Memorial has a strong and special association to the military and more specifically, those individuals who worked as dog trainers and/or dog handlers. The fact that some of the dogs' names are still evident on the wooden crosses marking the graves increases the likely hood that persons may feel a strong connection to some of the dog graves at this site. The central stone in the Memorial is dedicated to the memory of 'all past and present search dogs and their handlers'.

Criterion (e): potential to yield information that would contribute to an understanding of cultural history

This item is assessed as not having significance against this criterion.

Criterion (f): possesses uncommon, rare or endangered aspects of cultural history

This item is assessed as not having significance against this criterion.

Criterion (g): important in demonstrating the principal characteristics of a class of cultural place

This item is assessed as not having significance against this criterion.

3.8.2 Analysis against Commonwealth Heritage significance criteria

Criterion (a): The place has significant heritage value because of the place's importance in the course, or pattern, of Australia's natural or cultural history

The EDD cemetery and Memorial combine to form an important site which relates to the history and development dog training within the Australian military. The use, material form, and configuration of the two areas relate directly to the policies and practice of the dog training unit through time. Dog training began at the SME for a brief period in the 1950s, and then recommenced in 1969 with the Vietnam War. The cemetery is thought to date from this period, and the Memorial from the 1990s.

Criterion (b): The place has significant heritage value because of the place's possession of uncommon, rare or endangered aspects of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.



Criterion (c): The place has significant heritage value because of the place's potential to yield information that will contribute to an understanding of Australia's natural or cultural history

This item is assessed as not having significance against this criterion.

Criterion (d): The place has a significant heritage value because of the place's importance in demonstrating the principal characteristics of:

xi) A class of Australia's natural or cultural places, or

xii) A class of Australia's natural or cultural environments.

This item is assessed as not having significance against this criterion.

Criterion (e): The place has a significant heritage value because of the place's importance in exhibiting particular aesthetic characteristics valued by a community or cultural group.

This item is assessed as not having significance against this criterion.

Criterion (f): The place has significant heritage value because of the place's importance in demonstrating a high degree of creative or technical achievement at a particular period.

This item is assessed as not having significance against this criterion.

Criterion (g): The place has significant heritage value because of the place's strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

The cemetery and Memorial have strong and special association with Defence personnel who form a specialised group of professionals who work as dog trainers and/or dog handlers, for and in military contexts. The central stone in the Memorial is dedicated to the memory of 'all past and present search dogs and their handlers'.

Criterion (h): The place has significant heritage value because of the place's special association with the life or works of a person, or group of persons, of importance in Australia's natural or cultural history.

The cemetery and Memorial have strong and special association with persons who worked as dog trainers and/or dog handlers. The fact that many of the dogs names are preserved on wood and in stone increases the likely hood that persons may feel a strong connection to some of the dog graves at this site. The central stone in the Memorial is dedicated to the memory of 'all past and present search dogs and their handlers'.

Criterion (i): The place has significant heritage value because of the place's importance as part of Indigenous tradition.

This item is assessed as not having significance against this criterion.

3.8.3 Statement of heritage significance:

The cemetery and Memorial possess significant historical and social value at a local level whilst not possessing archaeological and research potential. These values relate to the history, development and practice of dog training and handling within the SME corps.

This site is significant against NSW criteria A, B, and D.

This site is significant against Commonwealth heritage listing criteria A, G and H



4. RECORD MANAGEMENT

Copies of this archival record will be lodged by the proponent with the following institutions as a requirement of this archival program:

- **The Australian Army Museum of Military Engineering, Holsworthy Barracks**
- **Australian War Memorial, Canberra**
- **Liverpool Public Library, Liverpool**
- **State Library of NSW, Sydney**
- **Australian National Library, Canberra**



THE PHOTOGRAPHIC RECORD



5. GROUNDS AND LANDSCAPE

5.1 Description

The subject of the archival record with regard to the grounds and landscape of the Project area focused on the identified significant elements:

- The street scape, and in particular the streets of the Steele Barracks (refer Figure 5.1);
- The interrelation of the built environment with the remnant native vegetation and the Georges River corridor; and
- The park and woodland environs of the Barracks.

School of Military Engineering

The SME grounds occupy the south, and at least two thirds of the Project area.

The principal entry to the SME is from Moorebank Avenue along Chatham Avenue. The entry to the former Chatham Village site along Litani Road is still visible further north along Moorebank Avenue. The current site entrance is marked by commemorative steel truss gates (Clive Steele Gates) and four concrete pillars either side of the entry road. A sandstone block guardhouse is located approximately 100 m along Chatham Road.

The built area of SME is set back from Moorebank Avenue approximately 200 m from the site fence. There is a continuous band of landscaping between the buildings and the eastern site boundary. This includes a golf course and playing fields (south of Chatham Avenue) and open dry land grass with scattered, largely mature eucalyptus (north of Chatham Avenue). The fence line is defined by a mix of native and exotic trees and shrubs which form an almost continuous screen from the roadway. The density of the shrub screening varies along the frontage. There is an area of dense bushland east of the former Chatham Village site.

The landscape character along the Moorebank Avenue frontage carries throughout the site. The site is very open with building developments located within groves of mature eucalypts. Dry land grass extends throughout the core areas of the Base. The vegetation along the western side of the site has a denser understory and canopy which reflects its proximity to the river and contributes to its unsuitability for development.

Small areas of more intense garden and landscape development occur against adjacent specific buildings and site usages including golf course, Heritage Park and gardens associated with the Mess and Headquarters buildings.

Between Bapaume Road and the School of Military Engineering

In the early stages of the Project assessment, the built environment was restricted to the eastern half of the site adjacent to Moorebank Avenue. This area had large areas of open space between the buildings which, combined with large areas of natural bushland, playing fields and recreation spaces to the south, west and north, provided a very open character to the precinct. The mature trees set in open grassland and formal plantings of exotics along the street contributed greatly to the area's character. An area, set aside as parkland in 1949, known as Titalka Park is located in the north eastern corner of this area, northwest of the intersection of Bapaume Road and Moorebank Avenue.

With the exception of building B99 and some associated sheds in the transport depot, all of the buildings in this area were demolished in a Defence instigated program conducted in mid-2012 (Bermagui Constructions 2012). The assessment and justification for the demolition program was conducted separately and independently of the Project assessment.

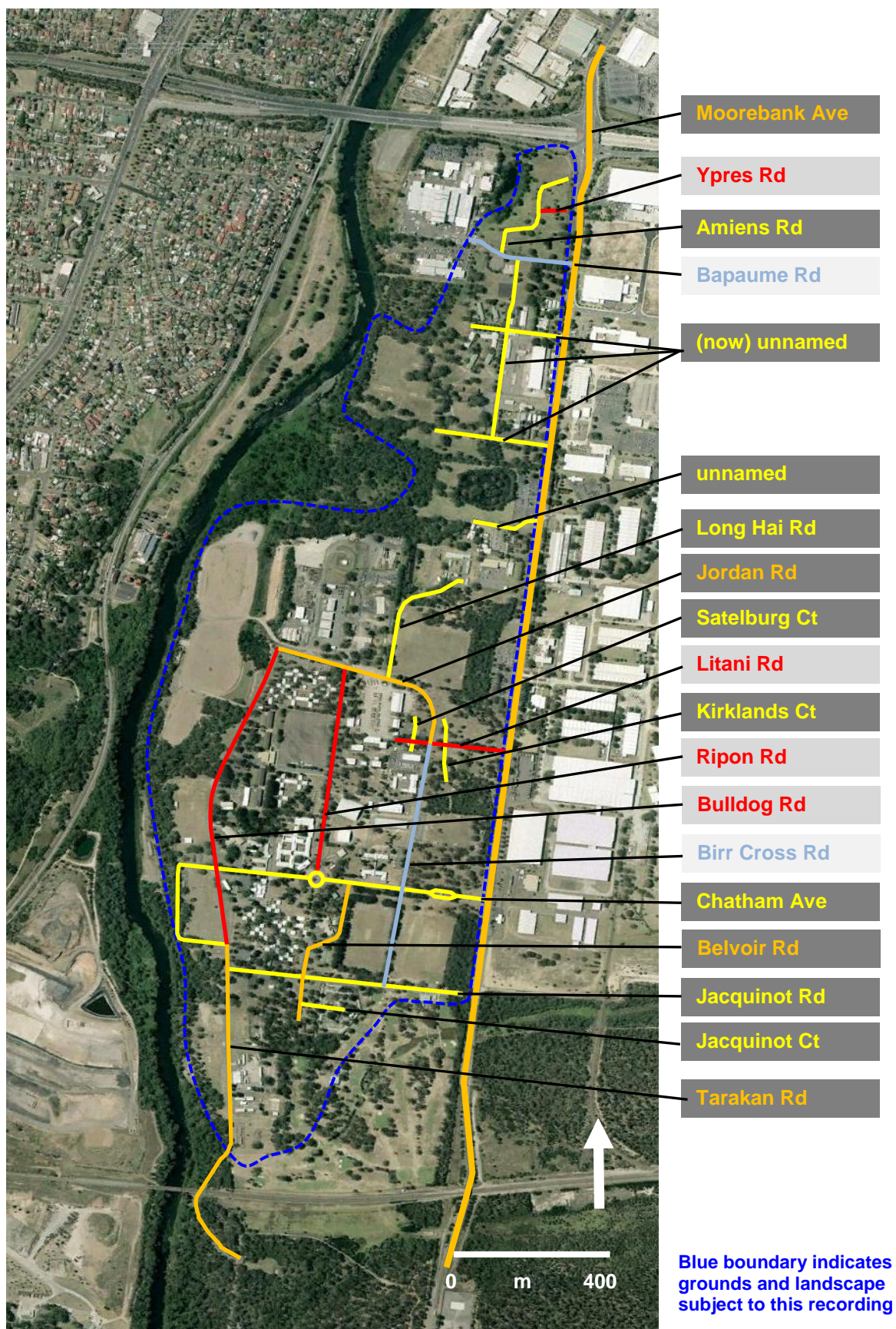


Figure 5.1 Location of streets, roads, avenues and circuits within or near to the landscape and grounds subject to this recording (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009).



North of the School of Military Engineering (SME) is a large area of native vegetation, including mature eucalypt trees and open grassland. This is bordered to the east by car parks and a compact group of administration and stores buildings utilized by the Moorebank Base Administration Support Centre (BASC). A wetland area occupies land adjacent to a tributary creek which cuts across the site in an east-west axis. A fenced block on the western edge of the built area was formerly occupied by the Second Military District Nursery, and has subsequently been developed as a recreational park with picnic facilities and an informal memorial garden. The garden consists of a woodland with many, mostly planted (and many mature native) trees, with a dry land grass understory. This area contains a number of buildings in a compact group close to Moorebank Avenue. The character is fragmented due to the mix of building types and periods.

North of Bapaume Road

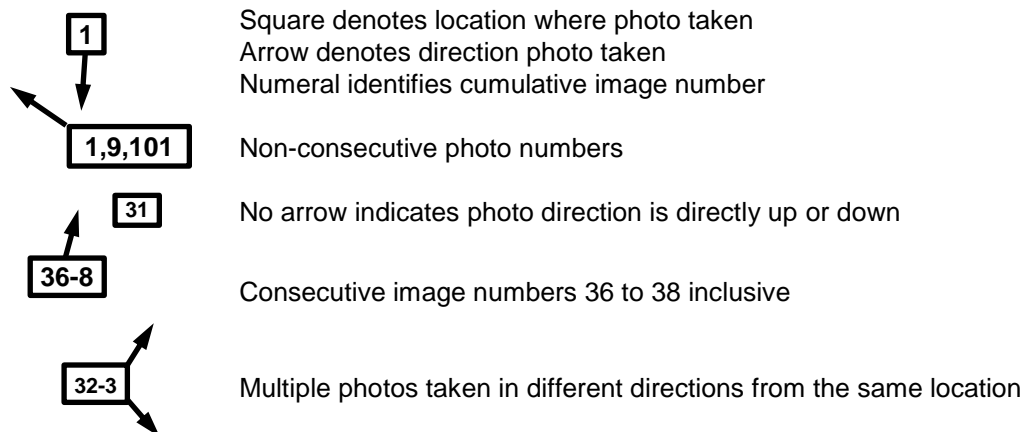
This area is presently vacant and overgrown with grasses. The site was formerly the Defence residential accommodation precinct of Moorebank Village. There are scattered trees throughout the site and some screening shrubs along the western boundary fence line. The trees appear to have been planted for the village.

There is some evidence within the overgrown site of the main roadways from the Moorebank Village era, Amiens and Ypres Roads. The site presently has an open parkland character. There is no built evidence of former uses above the level of the grass. Entry roadways into the site are still visible off Bapaume Road and Moorebank Avenue.



5.2 Plans of Photograph Locations

KEY



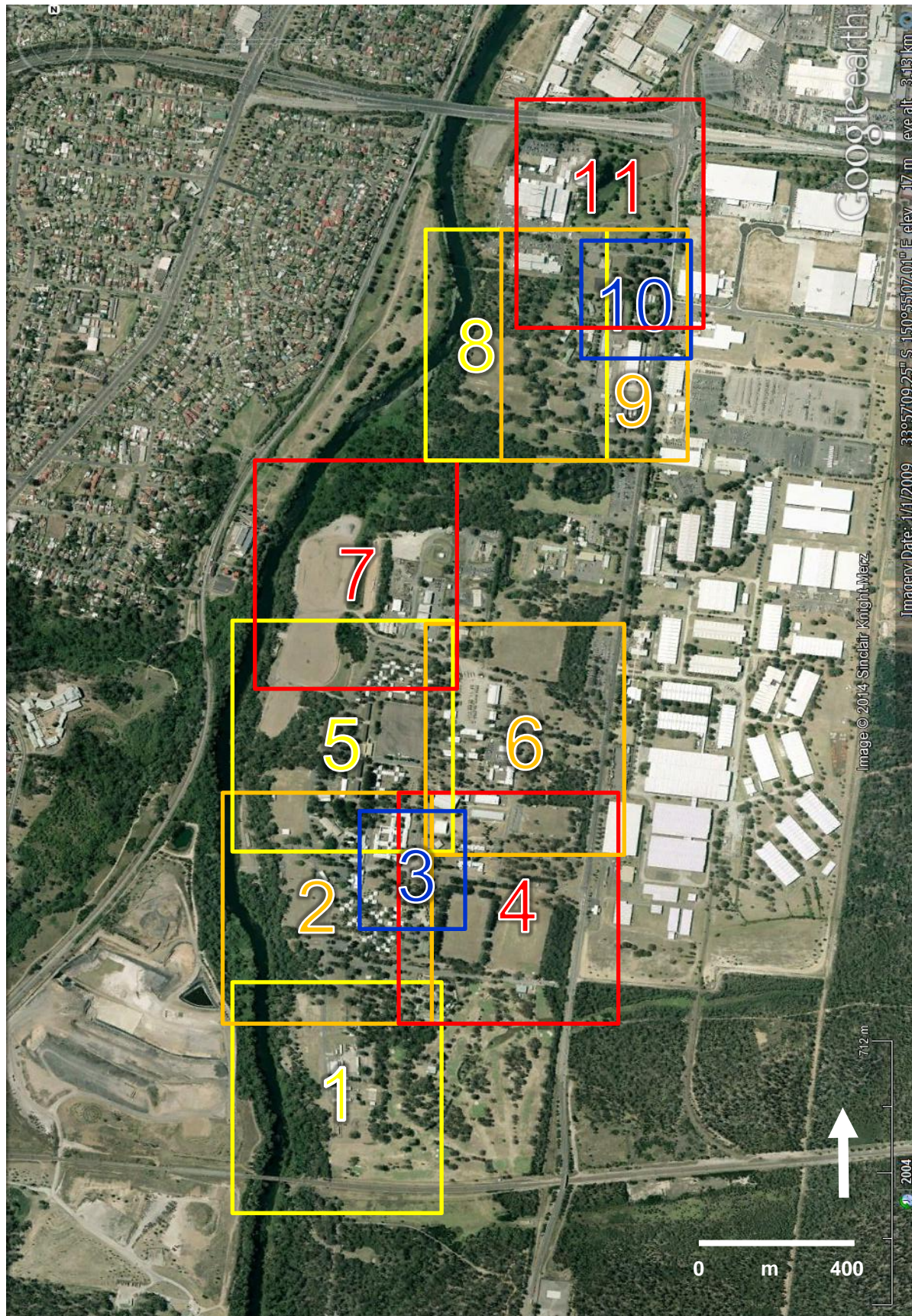


Figure 5.2 Key to plans showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

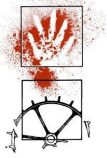


Figure 5.3 Plan one showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

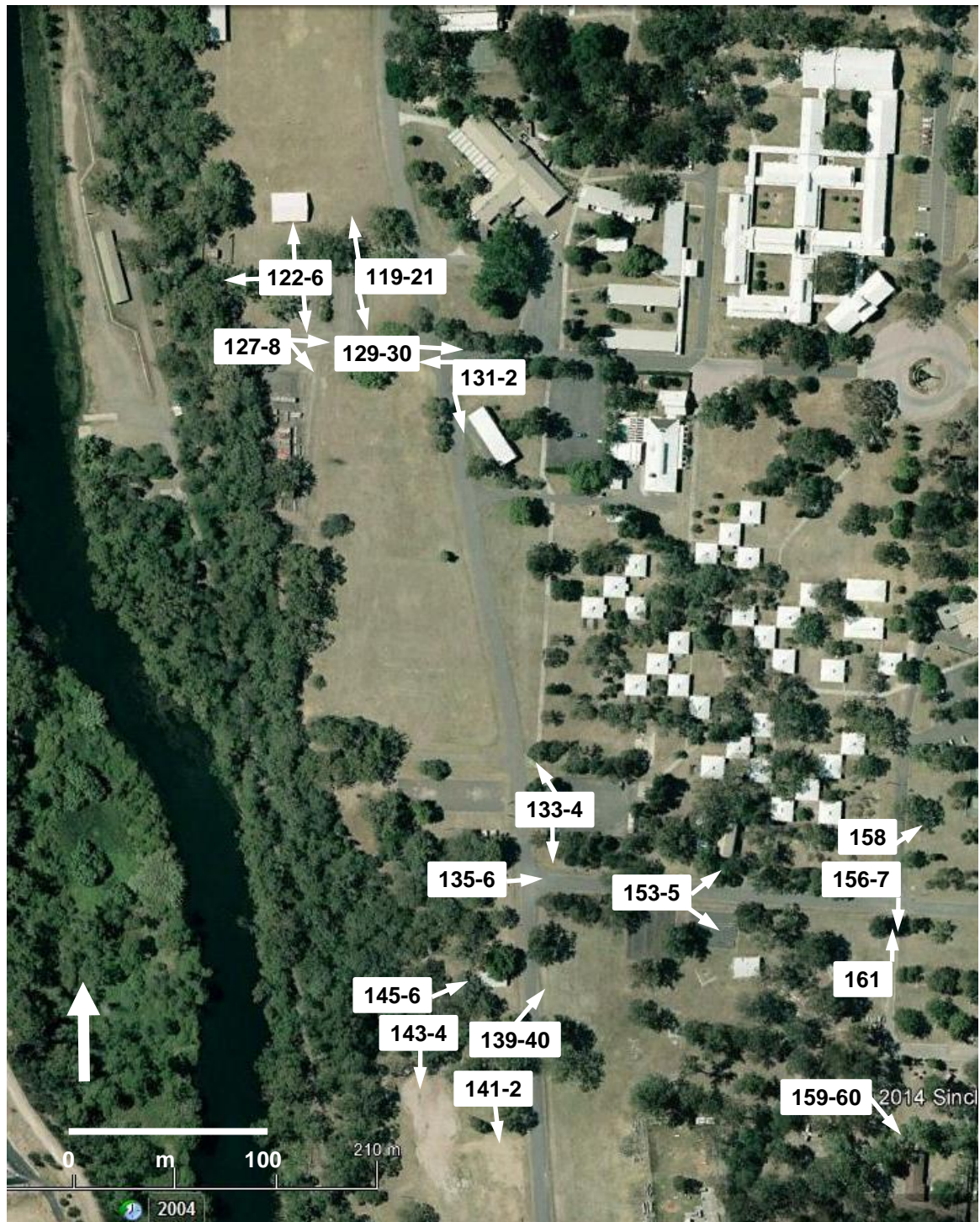
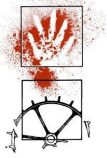


Figure 5.4 Plan two showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

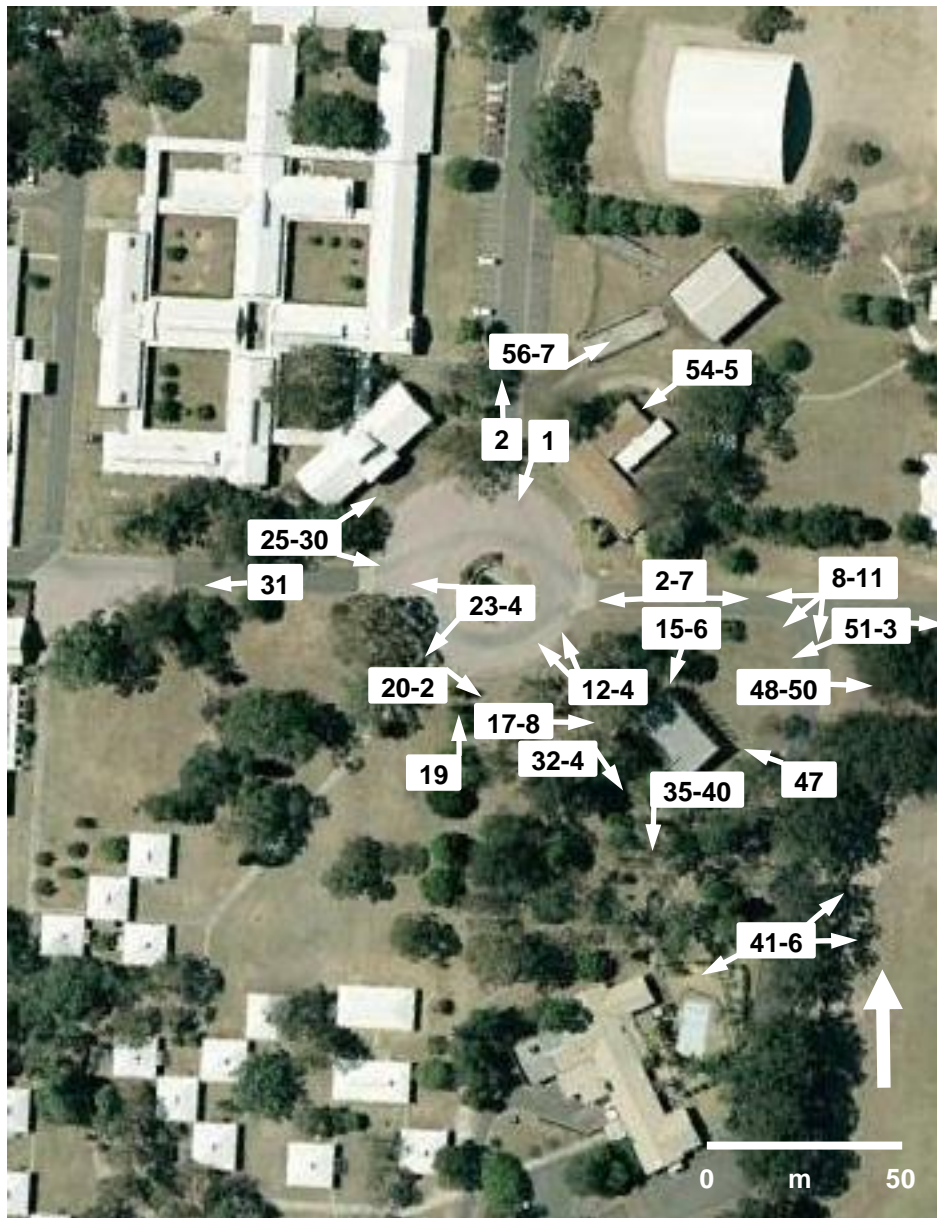
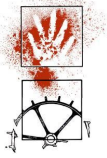


Figure 5.5 Plan three showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)



Figure 5.6 Plan four showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

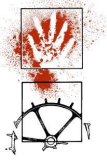


Figure 5.7 Plan five showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

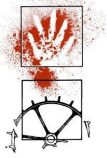


Figure 5.8 Plan six showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

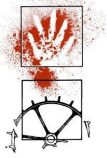


Figure 5.9 Plan seven showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)



Figure 5.10 Plan eight showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009). Note that many of the buildings evident in this photo were demolished at the time of the archival recording project.



Figure 5.11 Plan nine showing Grounds and Landscape photograph locations (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009). Note that many of the buildings evident in this photo were demolished at the time of the archival recording project

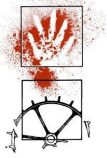


Figure 5.12 Plan ten showing Grounds and Landscape photograph locations in and around Titalka Park, (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)

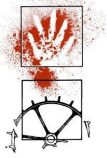


Figure 5.13 Plan eleven showing Grounds and Landscape photograph locations in and around the proposed Amiens Business Park, formerly a Defence residential area known as Moorebank Village, (base image: Google Earth Pro 2014, date of aerial photo: 1/1/2009)



5.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
0001	1	11-07-14	Looking to RAE pillar memorial	S			16
0002	2	11-07-14	Looking along (N) Ripon Road from RAE memorial circle	N			16
0003	3	11-07-14	Looking to RAE pillar memorial	W	+		14
0004	4	11-07-14	Looking to RAE pillar memorial	W			14
0005	5	11-07-14	Looking to RAE pillar memorial	W	-		20
0006	6	11-07-14	Looking to RAE pillar memorial	W	+		20
0007	7	11-07-14	Looking E from RAE memorial circle	E			20
0008	8	11-07-14	Looking down Belvoir Road	S			
0009	9	11-07-14	Looking from same position at chapel	SE	+		20
0010	10	11-07-14	Looking from same position at chapel	SE			
0011	11	11-07-14	Looking from same position to RAE pillar	W			
0012	12	11-07-14	From chapel entrance looking to RAE pillar	NW	+		10
0013	13	11-07-14	From chapel entrance looking to RAE pillar	NW			10
0014	14	11-07-14	Same position	NNW			
0015	15	11-07-14	Looking at north corner of chapel	S	+		
0016	16	11-07-14	Looking at north corner of chapel	S			
0017	17	11-07-14	Looking at west corner of chapel	E			
0018	18	11-07-14	Looking at west corner of chapel	E	+		
0019	19	11-07-14	Looking at RAE pillar	N			
0020	20	11-07-14	Looking to CO's walk	SE			
0021	21	11-07-14	Same position, looking along avenue	S	+		
0022	22	11-07-14	Same position, looking along avenue	S			
0023	23	11-07-14	Looking along footpath, from RAE pillar	SW			
0024	24	11-07-14	Looking from RAE pillar	W			
0025	25	11-07-14	Looking at RAE pillar from adjacent building	ESE			13



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0026	26	11-07-14	Looking at RAE pillar from adjacent building	ESE			13
0027	27	11-07-14	Same position looking along face of building	NE	+		13
0028	28	11-07-14	As above, along face of building	NE			13
0029	29	11-07-14	As above, along face of building	NE	-		20
0030	30	11-07-14	As above, along face of building	NE	+		20
0031	31	11-07-14	Looking towards sergeants mess	W			10
0032	32	11-07-14	Looking from corner of chapel, along CO's walk	SE			10
0033	33	11-07-14	Looking from corner of chapel, along CO's walk	SE	+		20
0034	34	11-07-14	Looking from corner of chapel, along CO's walk	SE			20
0035	35	11-07-14	From chapel looking along CO's walk, further along walk	S	--		20
0036	36	11-07-14	From chapel looking along CO's walk, further along walk	S	+		20
0037	37	11-07-14	From chapel looking along CO's walk, further along walk	S			20
0038	38	11-07-14	From chapel looking along CO's walk, further along walk	S	-		10
0039	39	11-07-14	From chapel looking along CO's walk, further along walk	S	+		10
0040	39a	11-07-14	From chapel looking along CO's walk, further along walk	S			10
0041	40	11-07-14	Looking SW, from a position to the east of the CO's walk, adjacent to Belvoir Rd	SW			10
0042	41	11-07-14	As above	SW	+		10
0043	42	11-07-14	Same position (Belvoir Rd), looking across playing field	NE			10
0044	43	11-07-14	Same position, (Belvoir Rd), looking across playing field	NE	-		10
0045	44	11-07-14	Same position, (Belvoir Rd), looking E across playing field	E			10
0046	45	11-07-14	Same position, (Belvoir Rd), looking E across playing field	E	-		20
0047	46	11-07-14	Looking towards east corner of chapel	NW			10
0048	47	11-07-14	Looking along line of trees, S of and parallel to Chatham Avenue	E	+		16
0049	48	11-07-14	Looking along line of trees, S of and parallel to Chatham Avenue	E			16
0050	49	11-07-14	Looking along line of trees, S of and parallel to Chatham Avenue	E	-16		16
0051	50	11-07-14	Looking at northeast face of chapel	SW			16
0052	51	11-07-14	Looking at northeast face of chapel	SW	-		16
0053	52	11-07-14	Same position, looking along tree-line on S edge of Chatham Ave	E			16



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0054	53	11-07-14	Bombs on museum wall	SW	+		20
0055	54	11-07-14	Bombs on museum wall	SW			20
0056	55	11-07-14	Looking at bicentennial building	NE			19
0057	56	11-07-14	Looking at bicentennial building	NE	-		19
0058	57	11-07-14	Looking from Moorebank Avenue at entrance to SME	W			17
0059	58	11-07-14	Looking from Moorebank Avenue at entrance to SME	W			10
0060	59	11-07-14	Same position, looking down (south) Moorebank Avenue	S	+		20
0061	60	11-07-14	Same position, looking down (south) Moorebank Avenue	S			20
0062	61	11-07-14	Same position, looking up (north) Moorebank Avenue	N	-		20
0063	62	11-07-14	Same position, looking up (north) Moorebank Avenue	N	+		20
0064	63	11-07-14	Looking at entrance to SME, Chatham Ave	W			10
0065	64	11-07-14	Same position, looking at entry sign	S	-		13
0066	65	11-07-14	Same position, looking at entry sign	S			13
0067	66	11-07-14	Looking toward gatehouse of SME, Chatham Ave	W			14
0068	67	11-07-14	Looking across field from entrance, Chatham Ave	SW			14
0069	68	11-07-14	Same position, looking out of gates to Moorebank Avenue	E			14
0070	69	11-07-14	Looking toward gatehouse and scribbly gums from Birr Cross Rd	E			14
0071	70	11-07-14	Same position, looking towards playing field	NE			14
0072	71	11-07-14	Same position, looking up (N) Birr Cross Rd	N	+		14
0073	72	11-07-14	Same position, looking up (N) Birr Cross Rd	N			14
0074	73	11-07-14	Same position, looking down (S) Birr Cross Rd	S	-		14
0075	74	11-07-14	Same position, looking down (S) Birr Cross Rd	S	+		14
0076	75	11-07-14	Same position, looking down (S) Birr Cross Rd	S			14
0077	76	11-07-14	Looking from crossroads at N end of Birr Cross Rd at former residential area (Chatham Village)	E	-		15
0078	77	11-07-14	Looking from crossroads at N end of Birr Cross Rd at former residential area (Chatham Village)	E	+		15
0079	78	11-07-14	Looking E along former access road (Litani Rd) through former residential area (Chatham Village) in region of Kirklands Ct	E			15
0080	79	11-07-14	Same position, looking across former intersection of Kirklands Ct with Litani Rd	SW			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0081	80	11-07-14	Same position, looking W	W	+		20
0082	81	11-07-14	Same position, looking W	W			20
0083	82	11-07-14	Same position looking along N side of former entrance road (Litani Rd) to barracks/former residential area (Chatham Village), and across adjacent field	NE			10
0084	83	11-07-14	Looking from former entrance (on Litani Rd) towards barracks	W			15
0085	84	11-07-14	Looking from former entrance (on Litani Rd) towards barracks	W	-		15
0086	85	11-07-14	Same position, looking SW across woodland	SW			15
0087	86	11-07-14	Looking down Jordan road, just E of Long Hai Rd	W	+		20
0088	87	11-07-14	Looking down Jordan road, just E of Long Hai Rd	W			20
0089	88	11-07-14	Looking S along Ripon road from Jordan Rd intersection	S			14
0090	89	11-07-14	Looking along Ripon Road from Jordan Rd intersection	S	+		20
0091	90	11-07-14	Looking along Ripon road from Jordan Rd intersection	S			20
0092	91	11-07-14	As above, angled slightly to W, showing residential buildings	SW			20
0093	92	11-07-14	Same position looking into yard on N side of Jordan Rd	N			20
0094	93	11-07-14	Same position looking up (E) Jordan Road towards RAEME Workshop	E			19
0095	94	11-07-14	Looking toward powerhouse (on other side of George's River) from near W end of Jordan Rd	WNW	--		19
0096	95	11-07-14	Looking toward powerhouse (on other side of George's River) from near W end of Jordan Rd	WNW			19
0097	96	11-07-14	Looking across parade ground, from Ripon Rd	SW			10
0098	97	11-07-14	Same position, looking S down Ripon Rd	S			20
0099	98	11-07-14	Looking NW across river flats area formerly used for heavy vehicle manoeuvres/training, taken from NW of the N end of Bulldog Rd	NW	+		15
0100	99	11-07-14	As above	NW			15
0101	100	11-07-14	As above	NW	-		15
0102	101	11-07-14	Looking (S) down Bulldog road from its N end	SSW			16
0103	102	11-07-14	As above	SSW			20
0104	103	11-07-14	Same position, looking further E	SE			10
0105	104	11-07-14	Same position, looking up (E) Jordan Rd	E			10
0106	105	11-07-14	Looking across river flats formerly used for heavy vehicle manoeuvres/training, from Bulldog Rd	SW			10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0107	106	11-07-14	Looking S down Bulldog Rd from locn G&L 0106	S			19
0108	107	11-07-14	Looking across playing field	SW	+		19
0109	108	11-07-14	Looking across playing field	SW	-		19
0110	109	11-07-14	Same position, looking at stand of trees to W	WNW	-		10
0111	110	11-07-14	Same position, looking at stand of trees to W	WNW	+		10
0112	111	11-07-14	Same position, looking W across N margin of playing field	W	+		10
0113	112	11-07-14	Same position, looking W across N margin of playing field	W			10
0114	113	11-07-14	Looking along E edge of playing field	S	+		14
0115	114	11-07-14	As above	S			14
0116	115	11-07-14	Same position, looking slightly further E	SE			20
0117	116	11-07-14	Same position, (angled up toward trees)	E	+		10
0118	117	11-07-14	Same position, (angled up toward trees)	E			10
0119	118	11-07-14	Looking across playing field	N	--		10
0120	119	11-07-14	Looking across playing field	N			10
0121	120	11-07-14	Same position	S			18
0122	121	11-07-14	Looking S along riparian edge	S			10
0123	122	11-07-14	Same position, looking towards river	E	+		10
0124	123	11-07-14	Same position, looking towards river	E			10
0125	124	11-07-14	Same position, looking at large tree, angled up	N	-		10
0126	125	11-07-14	Same position, looking at large tree, angled up	N	+		10
0127	126	11-07-14	Looking up (E) Chatham Ave from its western extent	E			15
0128	127	11-07-14	Same position, looking SE	SE			20
0129	128	11-07-14	Looking up (E) Chatham Road from its intersection with Bulldog Rd	E	+		20
0130	129	11-07-14	Looking up (E) Chatham Road from its intersection with Bulldog Rd	E	-		20
0131	130	11-07-14	Looking down (S) Bulldog Road, adjacent to shelter shed with boats, just S of Chatham Ave	SSE			20
0132	131	11-07-14	Looking toward river (W) along Chatham Ave, from kits intersection with Bulldog Rd	W			20
0133	132	11-07-14	Looking NW across empty field from Bulldog Rd, just N of its intersection with Jacquinot Rd	NNW			20
0134	133	11-07-14	Same position, looking S, looking down (s) Bulldog Rd	S			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0135	134	11-07-14	Looking up (E) Jacquinot Road from its W end and intersection with Bulldog and Tarakan Rds	E	+		20
0136	135	11-07-14	Looking up (E) Jacquinot Road from its W end and intersection with Bulldog and Tarakan Rds	E			20
0137	136	11-07-14	Same position, looking S along Tarakan Road	S	-		20
0138	137	11-07-14	Same position, looking S along Tarakan Road	S			20
0139	138	11-07-14	Looking toward residential area	NE			11
0140	139	11-07-14	Same position, angled upwards with trees in foreground	E	-		12
0141	140	11-07-14	Looking S along Tarakan Road with field and adjacent river on right	S	+		20
0142	141	11-07-14	Looking S along Tarakan Road with field and adjacent river on right	S			20
0143	142	11-07-14	Looking across field, low truncated ridge in right of frame	S	-		20
0144	143	11-07-14	Looking across field, low truncated ridge in right of frame	S			20
0145	144	11-07-14	Looking at small shed situated just S of intersection of Jacquinot and Bulldog Rds	ENE			20
0146	145	11-07-14	Looking at small shed situated just S of intersection of Jacquinot and Bulldog Rds	ENE	-		20
0147	146	11-07-14	Looking N along Tarakan Rd near the East Hills railway Line	N	+		20
0148	147	11-07-14	Looking N along Tarakan Rd near the East Hills Railway Line	N			20
0149	148	11-07-14	Looking across barbed wire training ground and bailey bridges, from Tarakan Rd	SE			20
0150	149	11-07-14	Looking across golf course from Tarakan Rd, near the East Hills railway Line	E			16
0151	150	11-07-14	Same position, view just to the left (N), looking across training ground	NE			17
0152	151	11-07-14	Same position looking toward river and rail crossing	SSW			17
0153	152	11-07-14	Looking NE at squash courts from Jacquinot Rd	NE	+		10
0154	153	11-07-14	Looking NE at squash courts from Jacquinot Rd	NE			10
0155	154	11-07-14	Same position looking at shed and training equipment	SE			20
0156	155	11-07-14	Looking S down S portion of Belvoir Rd toward former residential area	S	+		11
0157	156	11-07-14	Looking S down S portion of Belvoir Rd toward former residential area	S			11
0158	157	11-07-14	Looking toward tennis courts from Jacquinot Rd	ENE			11
0159	158	11-07-14	Looking at former residential area from S end of Belvoir Rd, Sabre House	SE	+		18
0160	158b		Looking at former residential area from S end of Belvoir Rd, Sabre House	SE	-		18
0161	159	11-07-14	Looking up (N) Belvoir Rd from just S of its intersection with Jacquinot Rd	N			10
0162	160	11-07-14	Looking across football field from S end of Birr Cross Rd	N			14



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0163	161	11-07-14	Looking across football field from S end of Birr Cross Rd	N	-		14
0164	162	11-07-14	Same position, looking E along Jacquinot Rd toward golf club	E	-		10
0165	163	11-07-14	Same position, looking E along Jacquinot Rd toward golf club	E			10
0166	164	11-07-14	Same position looking N up Birr Cross road	N			10
0167	165	11-07-14	Looking NW from NW corner of AFL field	NW	-		18
0168	166	11-07-14	Looking N across AFL field, through AFL goal posts	N	+		20
0169	167	11-07-14	Looking N across AFL field, through AFL goal posts	N			20
0170	168	11-07-14	Looking S across golf course from Jacquinot Rd	S			20
0171	169	11-07-14	Looking at line of scribbly gums on W side of Birr Cross Road	NE	+		10
0172	170	11-07-14	Looking at line of scribbly gums adjacent to AFL field	NE			10
0173	171	11-07-14	Same position, looking N across playing field	N			14
0174	172	11-07-14	Same position, looking N across playing field	N	+		14
0175	7	24-07-14	Looking N at former Drill Hall site	N			13
0176	8	24-07-14	Looking WSW at former residential building sites	WSW			10
0177	9	24-07-14	Looking SE towards building B99	SE			20
0178	13	24-07-14	Looking WNW at former building site and remnant garden plants	WNW			14
0179	14	24-07-14	Looking NW at former building site and remnant garden plants	NW			14
0180	15	24-07-14	Looking ENE at former building site and remnant garden plants	ENE			14
0181	16	24-07-14	Looking W along road north of B99	W			14
0182	17	24-07-14	Looking NW along N side of road	NW			16
0183	18	24-07-14	Looking W across Titalka Park from just past (S of) the SE corner of the park	W			10
0184	19	24-07-14	Looking NW across Titalka Park from just past (S of) the SE corner of the park	NW			10
0185	20	24-07-14	Looking N across Titalka Park from just past (S of) the SE corner of the park	N			10
0186	21	24-07-14	Looking WNW at possible original old growth tree (pre-Defence?)	WNW			20
0187	22	24-07-14	Panorama photos from SE corner of Titalka Park – Looking W	W			20
0188	23	24-07-14	Panorama photos from SE corner of Titalka Park – Looking WNW	WNW			20
0189	24	24-07-14	Panorama photos from SE corner of Titalka Park – Looking NNW	NNW			20
0190	25	24-07-14	Panorama photos from SE corner of Titalka Park – Looking N	N			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0191	26	24-07-14	Same location as field note locn 22-5, Looking NWN	NWN			10
0192	27	24-07-14	Same location as field note locn 22-5, Looking W	W			10
0193	28	24-07-14	Same location as field note locn 22-5, Looking W	W	+		10
0194	29	24-07-14	Looking W from NE corner of Titalka Park, note lights on poles	W	+		10
0195	30	24-07-14	Looking SW from NE corner of Titalka Park	SW			10
0196	31	24-07-14	Looking SW from NE corner of Titalka Park	SW	+		10
0197	32	24-07-14	Looking W along N boundary of Titalka Park & S boundary of Bapaume Rd easement, note avenue of planted trees including stringybarks	W			
0198	33	24-07-14	Looking S, parallel to Moorebank Avenue from near NE corner of Titalka Park	S			
0199	34	24-07-14	View of light on pole in Titalka Park, looking N (Private pole no.1644)	N			10
0200	35	24-07-14	Detail of light on pole in Titalka Park,				105
0201	36	24-07-14	Detail of light on pole in Titalka Park,			✓	105
0202	37	24-07-14	As for field note photo 34, but with scale				
0203	38	24-07-14	As for field note photo 34, but with scale		+		
0204	39	24-07-14	Looking W at other light pole (not the one in field note photos 34-38)	W			50
0205	40	24-07-14	Looking W at other light pole (not the one in field note photos 34-38)	W	+		50
0206	41	24-07-14	Detail of light on pole (profile), looking W (Private pole no.2060)	W			200
0207	42	24-07-14	Looking W from near NW corner of Titalka Park	W			10
0208	43	24-07-14	Looking W from near NW corner of Titalka Park	W	+		10
0209	44	24-07-14	Looking E from near NW corner of Titalka Park	E			10
0210	45	24-07-14	Looking E from near NW corner of Titalka Park	E	+		10
0211	46	24-07-14	Looking SE, same location as field note 45, looking upwards	SE			10
0212	47	24-07-14	Looking SE, same location as field note 45, looking upwards	SE	+		10
0213	48	24-07-14	Looking S, same location as field note 45,	S			10
0214	49	24-07-14	Looking S, same location as field note 45,	S	+		10
0215	50	24-07-14	Looking ESE, same location as field note 45,	ESE			20
0216	51	24-07-14	Looking S from W boundary of Titalka Park, looking towards Building B99	S			14
0217	52	24-07-14	Looking S from W boundary of Titalka Park, looking towards Building B99	S	+		14



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0218	53	24-07-14	Same location as previous, ,looking E	E			10
0219	54	24-07-14	Looking N from field note location 51, at former residential building area on N side of Bapaume Rd	N			
0220	55	24-07-14	Looking SE towards S portion of Titalka Park	SE			
0221	56	24-07-14	Looking SE towards S portion of Titalka Park	SE	-		
0222	57	24-07-14	Looking SSW, into former residential building area to W of former Drill Hall building group	SSW			
0223	58	24-07-14	Looking S towards former Drill Hall site	S			20
0224	59	24-07-14	Looking NE across Titalka Park from near SW corner of park	NE			10
0225	60	24-07-14	Looking NE across Titalka Park from former Drill Hall site	NE			
0226	61	24-07-14	Looking W along W end of road	W			14
0227	62	24-07-14	Looking NE towards former Drill Hall site	NE			14
0228	63	24-07-14	Looking NE towards former Drill Hall site	NE	+		14
0229	64	24-07-14	Looking ENE along road, from field note location 62	ENE			14
0230	65	24-07-14	Looking ENE along road, from field note location 62	ENE	-		14
0231	66	24-07-14	Looking N towards former Drill Hall site	N			14
0232	67	24-07-14	Looking N towards former Drill Hall site	N	+		14
0233	68	24-07-14	Looking NW towards former residential building area	NW			12
0234	69	24-07-14	Looking NE towards Building B99	NE			10
0235	70	24-07-14	Looking NE towards Building B99	NE	+		10
0236	71	24-07-14	Looking E along road and native vegetation boundary	E			10
0237	72	24-07-14	Looking E	E			
0238	73	24-07-14	Looking E	E	+		
0239	74	24-07-14	Looking WSW towards old growth Eucalypt and playing fields	WSW			
0240	75	24-07-14	Looking WNW from field note locn 73	WNW			
0241	76	24-07-14	Looking WNW from field note locn 73	WNW	+		
0242	77	24-07-14	Looking NNE along avenue of trees	NNE			13
0243	78	24-07-14	Looking NNE along avenue of trees	NNE			20
0244	79	24-07-14	Looking NNE along avenue of trees	NNE	+		20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0245	80	24-07-14	Looking W towards playing fields	W			
0246	81	24-07-14	Looking N along road	N			12
0247	82	24-07-14	Looking N along road	N	-		12
0248	83	24-07-14	Looking N along road	N	+		12
0249	84	24-07-14	Looking N along road	N	++		12
0250	85	24-07-14	Looking ENE at Building B99	ENE			13
0251	86	24-07-14	Looking NW along road	NW			15
0252	87	24-07-14	Looking NW near road intersection	NW			15
0253	87a	24-07-14	Looking NW near road intersection	NW	+		15
0254	88	24-07-14	Looking SW	SW			11
0255	89	24-07-14	Looking WNW along road	WNW			11
0256	90	24-07-14	Looking WNW along road	WNW	+		11
0257	91	24-07-14	Looking SW from former residential building area towards playing fields	SW			
0258	92	24-07-14	Looking SE towards former Sergeant's Mess area	SE			20
0259	93	24-07-14	Looking E at four remnant pine trees which form part of road avenue	E			17
0260	94	24-07-14	Looking E at four remnant pine trees which form part of road avenue	E	-		17
0261	95	24-07-14	Looking SSE at group of old growth Eucalypts at S end of car park	SSE			11
0262	96	24-07-14	Looking NE at older and old growth Eucalypts situated between former residential building area and playing fields	NE			10
0263	97	24-07-14	Looking NNW across playing fields	NNW			10
0264	98	24-07-14	Looking NNW across playing fields	NNW	+		10
0265	98b	24-07-14	Looking NNW across playing fields	NNW	++		10
0266	99	24-07-14	Looking E along road platform	E			12
0267	100	24-07-14	Looking N across E margin of playing field area	N			14
0268	101	24-07-14	Looking W along S margin of playing field area	W			
0269	102	24-07-14	Looking S along S margin of playing field area	S			10
0270	103	24-07-14	Looking E across playing field towards building B99	E			20
0271	104	24-07-14	Looking N towards N margin of playing field, including previously recorded possible Aboriginal	N			20



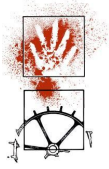
Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
			scarred tree MA7				
0272	105	24-07-14	Looking ENE across N margin of playing field, including context of possible Aboriginal scarred tree MA7	ENE			20
0273	106	24-07-14	Looking up into crown of MA7 tree				
0274	107	24-07-14	Looking up into crown of MA7 tree				
0275	108	24-07-14	Looking SW across playing fields from NW end	SW			
0276	109	24-07-14	Looking SW across playing fields from NW end	SW	+		
0277	110	24-07-14	Looking N towards large Eucalypts to W of former residential building area	N			10
0278	111	24-07-14	Looking N towards large Eucalypts to W of former residential building area	N	-		10
0279	112	24-07-14	Looking N towards large Eucalypts to W of former residential building area	N	+		10
0280	113	24-07-14	Looking E along old road alignment	E	+		
0281	114	24-07-14	Looking E along old road alignment	E			
0282	115	24-07-14	Looking NNE towards (Child care) building and associated earth platform	NNE			
0283	116	24-07-14	Looking NE at former residential building area	NE			13
0284	117	24-07-14	Looking NE at former residential building area	NE	+		13
0285	118	24-07-14	Looking N, same as field note locn 116	N			
0286	119	24-07-14	Looking NE from end of surface storm water drain intake, looking towards (Child care) building and associated earth platform	NE			10
0287	120	24-07-14	Looking NW towards ABB Building	NW			10
0288	121	24-07-14	Looking NE, same field note locn 120, looking towards (Child care) building	NE			10
0289	122	24-07-14	Looking SW from field note locn 120, former residential building site in foreground	SW			
Proposed Amiens Business Park (former 'Moorebank Village' residential area)							
0290	123	24-07-14	Looking N along former residential access road (Amiens Rd)	N			10
0291	124	24-07-14	Looking NNW, towards ABB buildings and wetland basin, from Bapaume Rd	NNW			10
0292	125	24-07-14	Looking SE across Titalka Park, from Bapaume Rd	SE			14
0293	126	24-07-14	Looking E along Bapaume Rd	E			14
0294	127	24-07-14	Looking NW across former residential blocks, from Bapaume Rd	NW			15
0295	128	24-07-14	Looking NW across former residential blocks, from Bapaume Rd	NW	+		15



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: G&L)	Field no.						
0296	129	24-07-14	Looking NW across former residential blocks (closer towards Moorebank Ave), from Bapaume Rd	NW			10
0297	130	24-07-14	Looking WSW, from Moorebank Ave across former residential blocks	WSW			10
0298	131	24-07-14	Looking S across former residential blocks, parallel to Moorebank Ave	S			10
0299	132	24-07-14	Looking NW across former residential blocks, from Moorebank Ave	NW			10
0300	133	24-07-14	Looking W along former residential access road (Ypres Rd)	N			10
0301	134	24-07-14	Looking W along former residential access road (Ypres Rd)	N	+		10
0302	135	24-07-14	Looking SW from same field note locn 133	SW			10
0303	136	24-07-14	Looking SW from same field note locn 133	SW			20
0304	137	24-07-14	Looking S across former residential blocks, from same field note locn 133	S	+		20
0305	138	24-07-14	Looking S across former residential blocks, from same field note locn 133	S			20
0306	139	24-07-14	hydrant				
0307	140	24-07-14	Detail of hydrant				
0308	141	24-07-14	Looking WSW along former residential access road (N end of Amiens Rd)	WSW			10
0309	142	24-07-14	Looking S from end of former residential access road (Amiens Rd), parallel with Moorebank Ave	S			10
0310	143	24-07-14	Looking WSW along former residential access road (Amiens Rd)	WSW			20
0311	144	24-07-14	Looking NW across far northern portion of study area	NW			10
0312	145	24-07-14	Detail of Amiens Business Park sign				98

Appendix K Cultural Heritage Archival Recordings





5.4 Photographic Thumbnail Compendium



		
G&L 0001	G&L 0002	G&L 0003
		
G&L 0004	G&L 0005	G&L 0006
		
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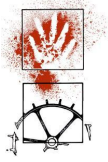
		
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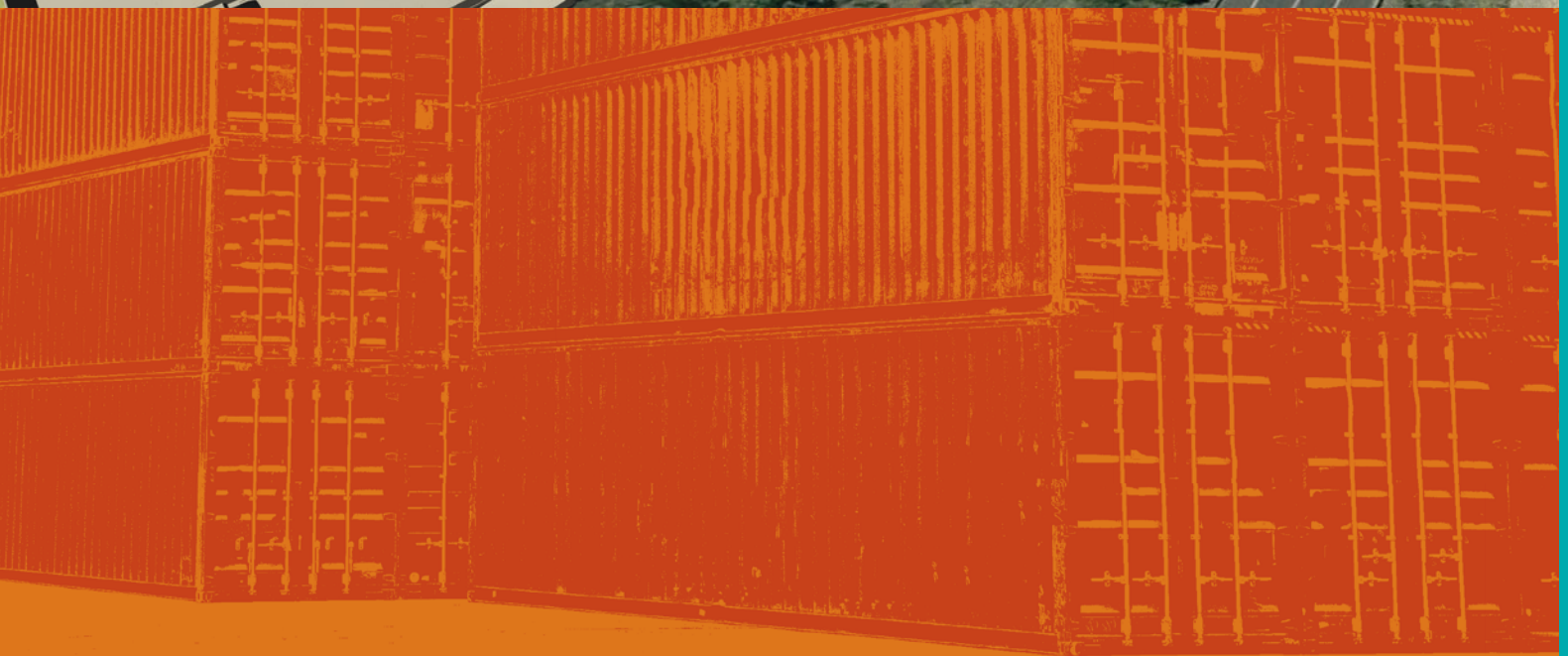


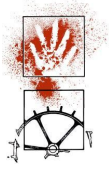
		
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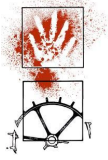
		
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G&L 0310	G&L 0311	G&L 0312

Appendix K Cultural Heritage Archival Recordings





5.4 Photographic Thumbnail Compendium



		
G&L 0001	G&L 0002	G&L 0003
		
G&L 0004	G&L 0005	G&L 0006
		
G&L 0007	G&L 0008	G&L 0009
		
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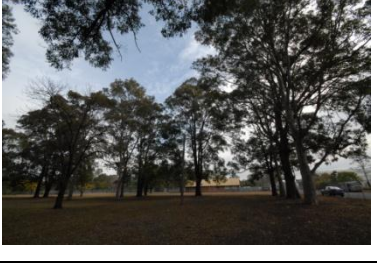




		
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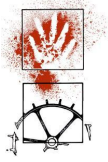
		
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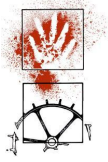
		
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Appendix K Cultural Heritage Archival Recordings





5.5 Sample Set of Photographic Prints

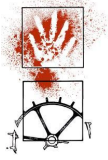


Figure 5.14 Looking S towards the RAE monument from Ripon Rd, (image no. G&L 0001)



Figure 5.15 Looking W towards RAE monument from Chatham Ave, (image no. G&L 0004)



Figure 5.16 Looking SW towards the NE face of the chapel building, (image no. G&L 0010)



Figure 5.17 Looking E towards the chapel, (image no. G&L 0017)



Figure 5.18 Looking ESE at RAE Memorial, (image no. G&L 0026)

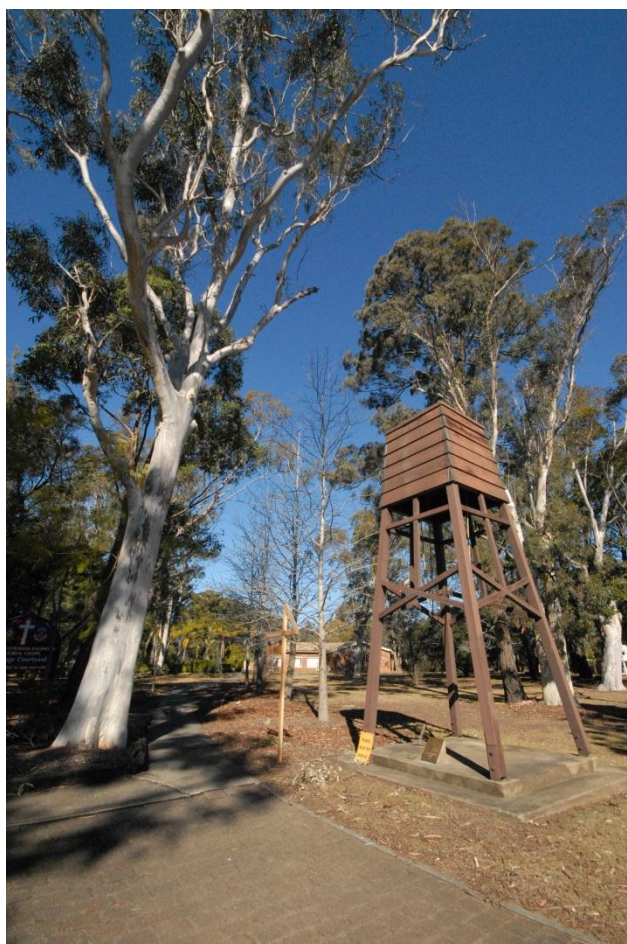


Figure 5.19 Looking SE from the chapel along the CO's Walk, (image no. G&L 0032)



Figure 5.20 Looking NE from Belvoir Rd towards DCSO Headquarters, (image no. G&L 0043)



Figure 5.21 Looking E from Belvoir Rd, along a tree avenue, south of and parallel to Chatham Ave, (image no. G&L 0049)



Figure 5.22 A wide view of the Steele Barracks entrance feature, looking W, (image no. G&L 0064)



Figure 5.23 View along main entrance road (Chatham Ave) towards gatehouse, looking W, (image no. G&L 0067)



Figure 5.24 Planted avenues of Eucalypts, looking E from Birr Cross Rd, (image no. G&L 0070)



Figure 5.25 Looking N along Birr Cross Rd, (image no. G&L 0073)



Figure 5.26 Looking E along former entry road into former residential area, (image no. G&L 0079)



Figure 5.27 Looking W along former entry road, from near its intersection with Moorebank Ave, (image no. G&L 0085)

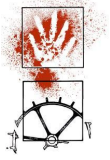


Figure 5.28 Looking SW across native vegetation which forms a margin along Moorebank Ave, from intersection with former entrance road, (image no. G&L 0086)



Figure 5.29 Looking S along Ripon Rd from its northern end, (image no. G&L 0091)



Figure 5.30 Looking E along Jordan Rd towards RAEME Workshop, (image no. G&L 0094)



Figure 5.31 Looking SW from Ripon Rd towards Parade Ground, (image no. G&L 0097)



Figure 5.32 Looking NW from the W end of Jordan Rd, across river flats formerly used for heavy vehicle manoeuvres (image no. G&L 0101)



Figure 5.33 Looking S along Bulldog Rd, (image no. G&L 0107)



Figure 5.34 Looking SW toward the Georges River corridor, from Bulldog Rd, across river flats formerly used for heavy vehicle manoeuvres, (image no. G&L 0106)



Figure 5.35 Looking N across playing fields net to the Georges River corridor, (image no. G&L 0120)

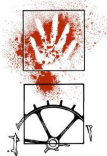


Figure 5.36 Looking S across area formerly occupied by World War Two buildings, From near NW extent of Chatham Ave, (image no. G&L 0121)



Figure 5.37 Looking E towards old growth Eucalypts near the Georges River corridor, from near the NW extent of Chatham Ave, (image no. G&L 0124)

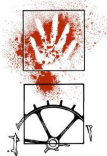


Figure 5.38 Looking E along Chatham Ave towards RAE Memorial, (image no. G&L 0130)



Figure 5.39 Looking towards residential area from Bulldog Rd, (image no. G&L 0139)

Appendix K Cultural Heritage Archival Recordings

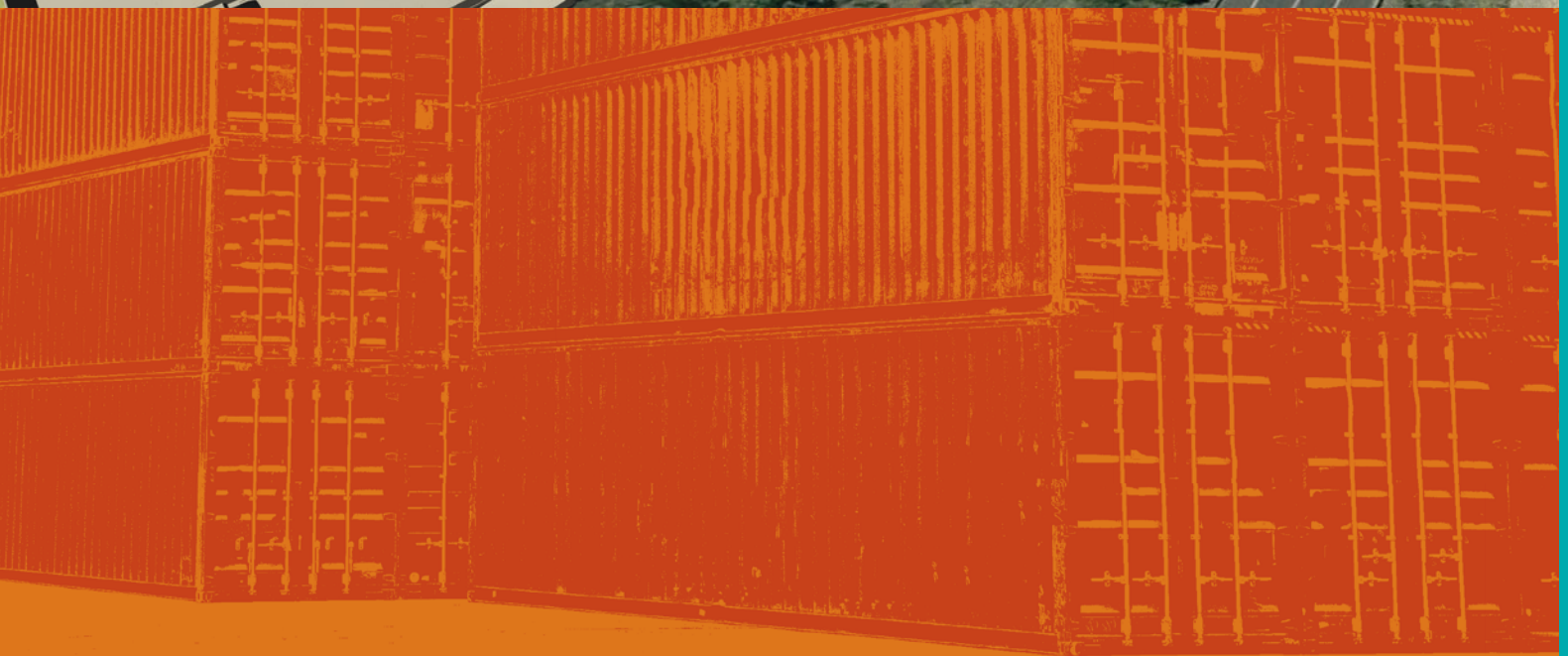




Figure 5.40 Looking S from the southern portion of Bulldog Rd, across training areas adjacent to the Georges River corridor (image no. G&L 0142)



Figure 5.41 Looking at a small shed situated just S of intersection of Jacquinot and Bulldog Rds, (image no. G&L 0145)

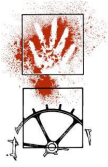


Figure 5.42 Looking N along Birr Cross Rd, from its S end, (image no. G&L 0166)



Figure 5.43 Looking N across AFL playing field north of Jacquinot Rd, (image no. G&L 0169)



Figure 5.44 Looking NE across avenue of Eucalyptus trees along Birr Cross Rd, (image no. G&L 0172)



Figure 5.45 Looking N towards Titalka Park from just north of B99 building, (image no. G&L 0178)



Figure 5.46 Old-growth Eucalyptus tree, situated near the southern end of Titalka Park, looking E, (image no. G&L 0186)



Figure 5.47 Looking NW across Titalka Park, (image no. G&L 0187)

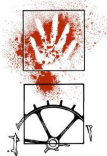


Figure 5.48 Looking N along the W edge of Moorebank Ave, along E margin of Titalka Park, (image no. G&L 0190)



Figure 5.49 Looking W across Titalka Park, from near the park's NE corner, (image no. G&L 0196)

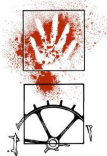


Figure 5.50 Light Pole in Titalka Park, looking E, (image no. G&L 0205)



Figure 5.51 Detail of light pole in Titalka Park, (image no. G&L 0206)



Figure 5.52 Looking SE across Titalka Park, from near the park's NW corner, (image no. G&L 0211)



Figure 5.53 Looking S from the NW end of Titalka Park towards the former site of the Drill Hall, (image no. G&L 0223)



Figure 5.54 Looking E along (now unnamed) road, just N of B99 building. All buildings which once occupied the N side of this road have been demolished (image no. G&L 0230)



Figure 5.55 Looking N from a (now unnamed) road towards building B99 (image no. G&L 0235)



Figure 5.56 Looking N along a (now unnamed) road, to the W of building B99, (image no. G&L 0247)



Figure 5.57 Looking N along a (now unnamed) road, to the NE of building B99, (image no. G&L 0251)



Figure 5.58 Looking N from near the SE corner of playing fields, towards remnant old-growth Eucalypts (image no. G&L 0262)

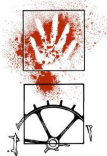


Figure 5.59 Looking NNW across playing field and towards Georges River corridor, (image no. G&L 0265)



Figure 5.60 General view of mowed woodland adjacent to natural regrowth adjoining the Georges River corridor, looking N towards former residential area, (image no. G&L 0278)

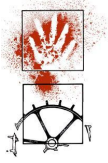


Figure 5.61 Looking N along a former Defence residential area (Moorebank Village) entry/access road, from Bapaume Rd, (image no. G&L 0290)



Figure 5.62 View of Titalka Park from Bapaume Road, looking SE, (image no. G&L 0292)



Figure 5.63 Looking NW across former residential block of Moorebank Village, from Bapaume Rd, note remnant garden trees, (image no. G&L 0295)



Figure 5.64 Looking W along former entry/access road into Moorebank Village, from near Moorebank Ave, (image no. G&L 0301)

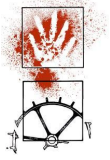


Figure 5.65 Hydrant within area of former Defence residential Moorebank Village, (image no. G&L 0306)



Figure 5.66 View looking WSW along the northern-most former entry/access road into Moorebank Village, from near Moorebank Ave, (image no. G&L 0308)

Appendix K Cultural Heritage Archival Recordings





6. STRARCH HANGER

6.1 Description

Location

The STRARCH faces Ripon Road and is situated in the Heritage Park district, between the CUST Hut and Bicentenary Building, in the SME, Steele Barracks.

Map grid references (MGA datum):

NE corner	307627.6240717
NW corner	307597.6240722
SE corner	307622.6240687
SW corner	307593.6240691

Background

The building is 30m x 32m and 8.6m high. The structure comprises a post tensioned steel truss roof which is tied down to large concrete footings. The name of the building (STRARCH) comes from the stressed arch design. The ends of the building are open. Walls on the long axis of the building are clad in Colorbond corrugated sheeting, as is the roof.

The building is one of 24 similar hangars procured by the RAAF and which had been stored in the Northern Territory for over ten years before being erected at SME as a 'temporary' facility in 2008 by the SME Construction Wing. The structure is now a feature of the SME Heritage Park and houses large machinery and equipment from the RAE Museum collection. Whilst the design details do not specify the design life, it is at least 16 years old and could be expected to have a design life of 25 years (NOHC 2014c, Parsons Brinckerhoff 2014).

The recently completed 2014 structural assessment of the Hanger by Parsons Brinckerhoff (Parsons Brinckerhoff 2014) reports the following:

During a subsequent meeting with Construction Wing to request any available records..., a senior staff member who supervised the erection recalled the need to procure a set of specialised hydraulic jacks from an overseas supplier to post-tension the Strarch Hangar as Strarch had ceased trading. One jack failed during the erection activity. It is understood that the remainder are in storage at SME.

A plaque located on the interior of the northern wall is engraved as follows: "Re-deployable Strarch Hangar constructed by Trade Training Troop, Construction Wing officially opened on 25 November 2008 by Lt Col D.A. Rye CO/CI SME."

This building is a unique example of a RAAF STRARCH re-deployable hangar. SME management believes the Hangar may be the only example of this design still in Defence ownership in Australia. This statement has not yet been confirmed in subsequent research. (NOHC 2014c). It is known that two hangars were seriously damaged after being impacted by cyclones in North Queensland (Captain Brian Collings quoted in Parsons Brinckerhoff 2014). It should be noted that examples of this type of design and construction occur elsewhere in Australia outside of Defence ownership for example Drage's AirWorld at Wodonga VIC and at Avalon Airport, Melbourne, VIC. The construction system is unique and was developed to provide prefabricated quick erection Hangars to house F111 fighters. The system was subsequently developed for non-Defence commercial use by a company called STRARCH Australia. It operated until 2004 when it went into receivership. This building, being still owned by Defence, consequently retains an historic connection to its original design use, to house the F111 Squadron when they first arrived in Australia.



Structural description

The following structural description of the hangar comes from the 2014 structural assessment by Parsons Brinckerhoff (Parsons Brinckerhoff 2014).

The Starch Hangar's overall dimensions are 30m long, 32m wide and approximately 10m high. The hangar is open ended. The Starch drawings show the structural arrangement comprises a 2 pin curved post-tensioned arch truss. Five trusses are spaced at approximately 7.3m centres, spanning approximately 32m. Each truss is supported on a trussed column assembly. The base of each column assembly is horizontally pinned to allow rotation during erection. The base of the column assembly is connected to holding down bolts cast into a large concrete footing.

The truss components are covered with a white protective coating. Starch Drawing S001 Rev D shows that each truss comprises a 100 x100 x5 mm wall thickness painted square hollow steel section as the top chord, and painted twin 60.3 OD x 5.4 mm thick hollow steel tubular sections as the bottom chord containing the stressed steel tendons.

The SME design calculations show a cast-in-situ footing 1m deep reinforced concrete footing 2.2 m square designed to resist all horizontal and vertical forces imposed by the hangar including wind uplift. No "as-built" records were provided to show if they were constructed as designed. A 2.4m wide concrete slab connects the foundations under each column providing a level internal and external surface along each side of the hangar under the wall cladding

The strength of the stressed arch system relies on maintaining constant tension in the steel tendons in the bottom chords generated by post tensioning during erection. Without this force, the hangar would be unstable. Starch Hangar Drawing No S004 Rev D details the bottom chord tubes connected by an inner tubular sleeve (48.2 dia x 3.2mm wall thickness) creating a sliding joint inside the bottom chord. This allows the overall length of the bottom chord to shorten to its specified dimension during post tensioning as the truss lifts and assumes its arched profile. The detail includes rubber ring seals to retain grease applied to the steel tendons during installation.

The white colourbond cladding is supported by galvanised steel purlins and girts on the roof and side walls. The purlins supporting the roof cladding above the trusses comprise galvanised steel C sections spanning between the truss supports at various centres over the length of the trusses. The galvanised Z-section steel girts supporting the side wall cladding are bolted to cleats on the outer face of the column assemblies.

There is no roof bracing in the plane of the arched truss system. Uncoated steel reinforcing rods bolted to the columns at the side walls provide diagonal bracing of the hangar. A tubular strut is located in the eaves between bays for the entire length of the building along each wall and ties into panel points of the wall rod bracing.

Ten column assemblies support the 5 roof trusses. They each comprise a braced truss arrangement of 2 vertical channel section struts connected by cross bracing supporting the roof truss. The base of each column assembly is horizontally pinned to a 16mm thick fabricated steel channel section with an M24 bolt. The channel section is fixed between and bolted to two stiffened angle brackets. The angle brackets are each fixed by 3 holding down bolts cast into the reinforced concrete footing. The channel and the two angles are seated on a 10mm base plate over a 25mm grout levelling pad above the footing.

The SME design calculations show a cast-in-situ footing at each column as a 1m deep reinforced concrete foundation 2.2m square designed to resist all horizontal and vertical forces imposed by the hangar including wind uplift as specified in the Standards Australia Wind Code AS 1170.2. No "as-built" records were provided to show if they were constructed as designed.

A 2.4m wide concrete slab connects the foundations under each column providing a level internal and external surface along each side of the hangar under the wall cladding. The internal floor is unsealed.



Unpainted 24mm diameter reinforcing rod diagonal bracing is provided along the interior of both side walls between columns and is welded to a cleat at the baseplate and bolted to each alternate column at eaves level.

Eaves bracing is provided along the full length of the structure by horizontal tubular struts.

During the recently conducted structural assessment of the STRARCH hanger (Parsons Brinkerhoff 2014), the following relevant documentation was sourced from the SME Construction Wing:

- RAAF Strarch Hangar Completion Report (October 1991) for two hangars erected at RAAF Base Learmonth, WA.
- A set of 80 design drawings including a Cover Sheet and Drawing Index of 79 engineering drawings titled "RAAF Strarch Re-deployable Shelter (30x32m) issued by Strarch International Limited all dated 28 May 1993.
- User Manual (64 pages plus Appendices) - issued by Strarch International Limited, dated May 1993 (supersedes version dated November 1990) titled "Royal Australian Air Force – Assembly / Erection Manual).

Section 1 contains an introduction describing the RAAF requirement for deployable shelters and how the Strarch Re-deployable Shelter meets these requirements. Key points include:

1.1 "The Royal Australian Air Force deploys Fighter and Strike / Reconnaissance aircraft at strategic air bases throughout Australia. These are expensive aircraft and need shelter against the deteriorating effects of rain, wind and solar radiation. The forward air bases have a requirement for shelters. [to be] capable of rapid initial deployment and subsequent dismantling and re-deployment."

1.2 "The Strarch Re-deployable Shelter was developed to meet this requirement for a forward base shelter. (It) can be fully erected or dismantled (without end walls) by a team of ten (10) persons within a 96 hour period".

- SME Construction Wing Strarch Hangar (15pp) foundation design structural calculations dated 27 March 2008 by Captain K Reynolds
- 8 Construction Engineer Regiment calculations "Foundation Design Check for Strarch Hangar at SME" (11 pp) dated 23 May 2008 by Lt. Johnson. This notes that "Building Squadron, Construction Wing, School of Military Engineering are to erect a 30 x 32m hangar in the vicinity of the military engineering heritage area at SME. This particular hangar is a proprietary product, designed, certified and manufactured by Strarch International Limited, The hangar was originally designed to be constructed in the Northern Territory over ten years ago. Since this time, it has been in storage in the Northern Territory. Currently, Construction Wing are to design the footings required." It also contains a list of references to Strarch drawings, a soils report, and Australian Standards AS 1170.1 Load Combinations, AS 1170.2 Structural Design Actions Part 2:Wind Actions, AS 3600 Concrete Code and AS 4100 Steel Code.

Digitised copies of these documents have been made available and are included in the attached data disk which forms part of this record.

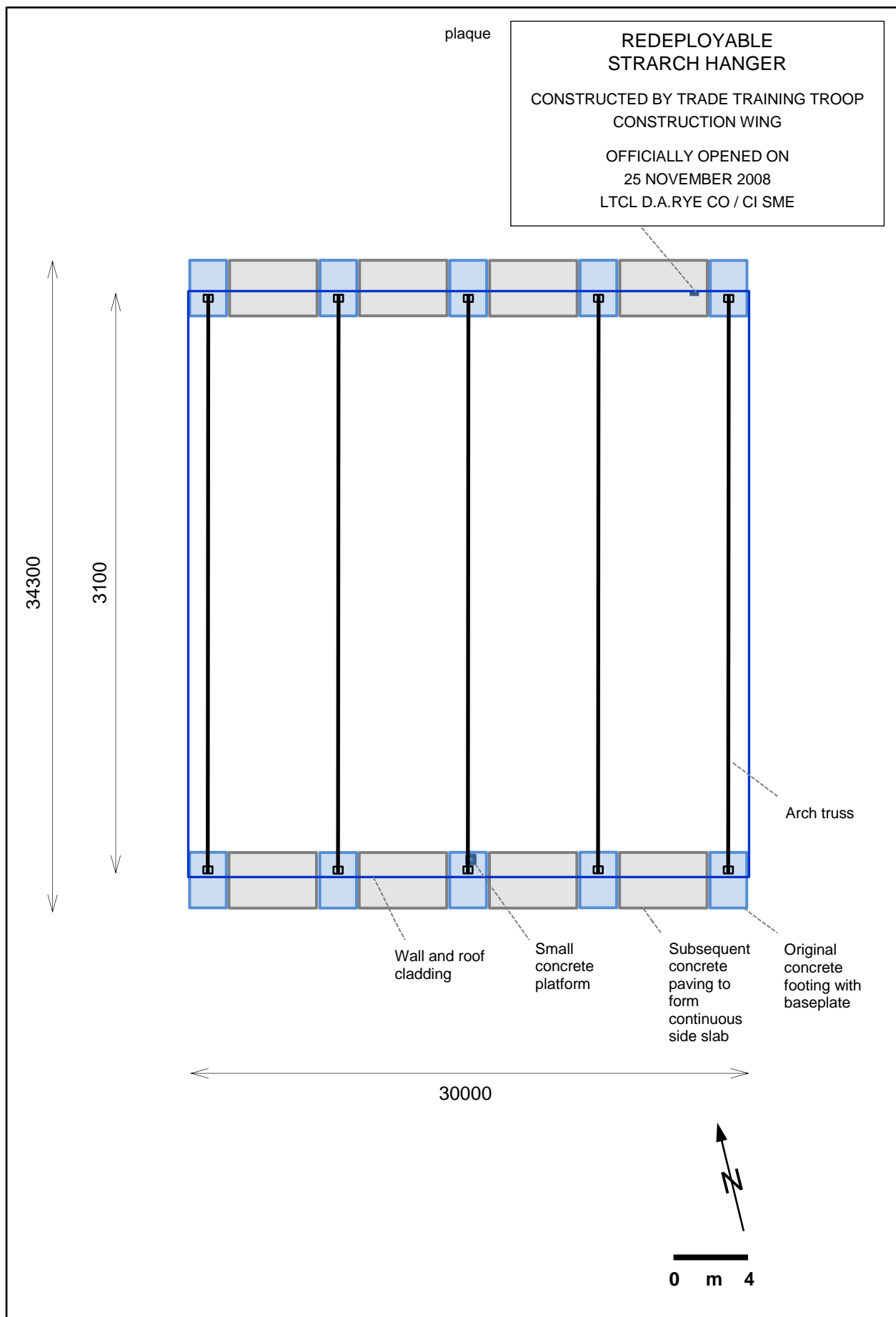
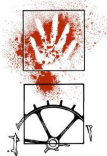


Figure 6.1 Ground plan of STRARCH Hanger



6.2 Plans of Photograph Locations

KEY

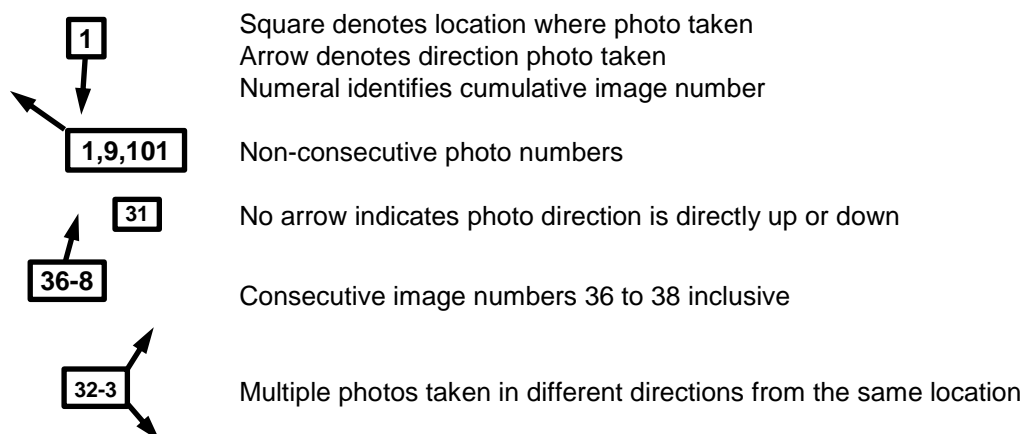




Figure 6.2 Aerial photo of STRARCH Hanger area, showing location of exterior STRARCH Hanger photo locations. All numbers have a 'STRARCH' prefix. (Base image from Google Earth Pro 2014, image date: 1/1/2009).

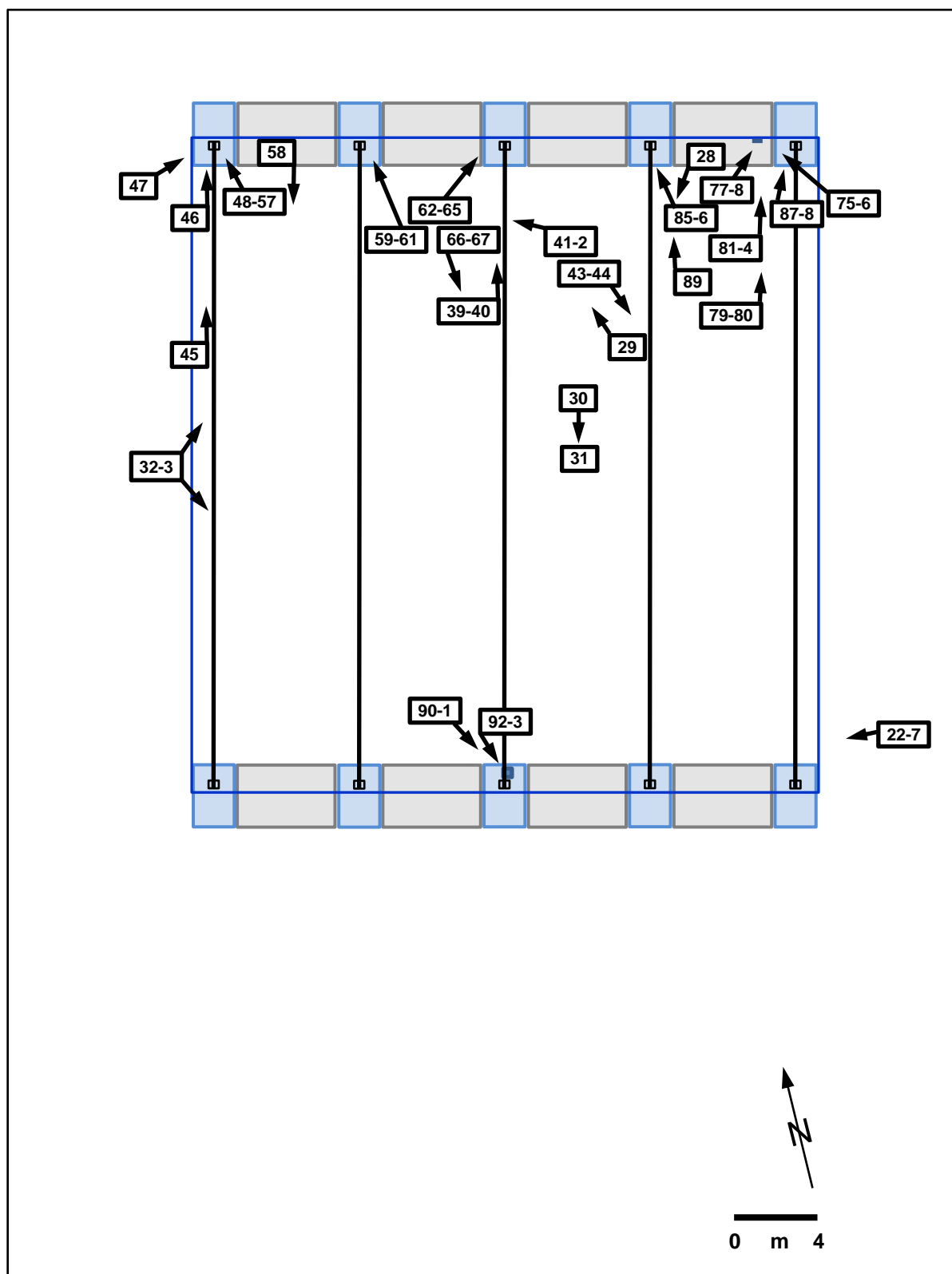


Figure 6.3 Plan of interior STRARCH Hanger photo locations. All numbers have a 'STRARCH' prefix.



6.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: STRARCH)	Field no.						
0000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
0001	1	04-07-14	General view of east side of hangar	E			20
0002	2	04-07-14	General view looking southwest of northeast side of hangar	SW			20
0003	3	04-07-14	General view of northeast side of hangar	SW			20
0004	4	04-07-14	View of north side of hangar	S			20
0005	5	04-07-14	General view	SE			20
0006	6	04-07-14	Wide view of hangar from northwest				20
0007	7	04-07-14	Wide view of hangar with street context	SSW			10
0008	8	04-07-14	General view west-northwest looking at west side				13
0009	9	04-07-14	View from west	E			13
0010	10	04-07-14	Looking at west side straight on	E			
0011	11	04-07-14	Wide view with street context	E			10
0012	12	04-07-14	Wide view with street context	E			20
0013	13	04-07-14	View of southwest corner - General view of hangar with scale	NE	+		16
0014	14	04-07-14	View of southwest corner - General view of hangar with scale	NE			16
0015	15	04-07-14	General view from south side	N	+		12
0016	16	04-07-14	General view from south side	N			12
0017	17	04-07-14	General view from southeast	NW			13
0018	18	04-07-14	General view from southeast	NW			20
0019	19	04-07-14	Close view of southeast corner showing upright at base of truss arch				20
0020	20	04-07-14	Detail of concrete slab along south wall, from southeast corner along exterior wall				16
0021	21	04-07-14	Detail of concrete slab along south wall, from southeast corner along exterior wall			✓	16
0022	22	04-07-14	Detail of concrete slab from southeast corner, on interior of wall				16
0023	23	04-07-14	Detail of concrete slab from southeast corner, on interior of wall			✓	16
0024	24	04-07-14	From same position as above, looking at truss support (upright position)				10
0025	25	04-07-14	From same position as above, looking at truss support (upright position)			✓	10
0026	26	04-07-14	From same position as above, looking at truss support (upright position), with scale				10
0027	27	04-07-14	From same position as above, looking at truss support (upright position), with scale			✓	10
0028	28	04-07-14	Detail of roof trusses from inside shed, north wall				10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: STRARCH)	Field no.						
0029	29	04-07-14	Interior wall northwest portion from inside hangar				10
0030	30	04-07-14	South wall interior, and roof interior				10
0031	31	04-07-14	Directly up at centre of roof, from centre east of hangar				10
0032	32	04-07-14	North wall and roof span	NE			10
0033	33	04-07-14	Same position, looking southeast at roof trusses	SE			10
0034	34	04-07-14	View of while interior from west		+		10
0035	35	04-07-14	View of while interior from west				10
0036	36	04-07-14	Southwest corner viewing upright pylon and interior wall roof section		+		20
0037	37	04-07-14	Southwest corner viewing upright pylon and interior wall roof section, exposure corrected				
0038	38	04-07-14	Southwest corner viewing upright pylon and interior wall roof section, exposure corrected			✓	
0039	39	04-07-14	Middle upright truss on north wall, from south interior	N		✓	
0040	40	04-07-14	Middle upright truss on north wall, from south interior	N			
0041	41	04-07-14	Angled shot of central upright northern wall, from SE	NW			
0042	42	04-07-14	Angled shot of central upright northern wall, from SE			✓	
0043	43	04-07-14	Eastern end of interior showing truss arch				
0044	44	04-07-14	Eastern end of interior showing truss arch			✓	
0045	45	04-07-14	Northwest corner interior of upright, detail of base				35
0046	46	04-07-14	Northwest corner of truss, detail of base from above				40
0047	47	04-07-14	Northwest corner of truss, detail of base from above, oblique angle from southwest				40
0048	48	04-07-14	Northwest corner of upright, detail of base (1st of series)				40
0049	49	04-07-14	Northwest corner of upright, centre of upright (2nd of series)				40
0050	50	04-07-14	Northwest corner of upright, top of upright (3rd of series)				40
0051	51	04-07-14	Northwest corner of upright, top of upright (4th of series)				40
0052	52	04-07-14	Northwest corner of upright, top of upright (5th of series)				40
0053	53	04-07-14	Northwest corner of upright, top of upright (6th of series)				40
0054	54	04-07-14	Northwest corner of upright, top of upright (7th of series)				40
0055	55	04-07-14	Northwest corner of upright, looking up at arch (8th of series)				40
0056	56	04-07-14	Northwest corner of upright, looking up at centre of arch (9th of series)				40
0057	57	04-07-14	Northwest corner of upright, looking up at arch (10th of series)				40
0058	58	04-07-14	Detail of roof interior from north wall	S			35
0059	59	04-07-14	Detail of top of upright, end of arch and cable end-caps	W			70



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: STRARCH)	Field no.						
0060	60	04-07-14	Detail of top of upright, end of arch and cable end-caps with scale	W			70
0061	61	04-07-14	Detail of top of upright, end of arch and cable end-caps with scale	W		✓	70
0062	62	04-07-14	Detail of upright and arch end	E		✓	
0063	63	04-07-14	Detail of upright and arch end	E			
0064	64	04-07-14	Detail of slab and upright footing				28
0065	65	04-07-14	Detail of slab and upright footing			✓	28
0066	66	04-07-14	Interior of roof and arches looking upwards	S			105
0067	67	04-07-14	Interior of roof and arches looking upwards	S		✓	105
0068	68	04-07-14	Detail of panelling on north wall at northwest end				35
0069	69	04-07-14	Detail of panelling on north wall at northwest end with roof				35
0070	70	04-07-14	Close up detail of exterior panelling on north wall at northwest end showing corner of wall and roof				
0071	71	04-07-14	View of north wall and roof showing pattern of bolts securing cladding. Note bolts on truss (sparse) and random piece of wire. Vertical format	N			
0072	72	04-07-14	View of north wall and roof showing pattern of bolts securing cladding. Note bolts on truss (sparse) and random piece of wire. Horizontal format				
0073	73	04-07-14	View of exterior concrete slab showing foundation block and adjacent paving				
0074	74	04-07-14	Detail of expansion joint between concrete footing and adjacent paving. Note paving is much thinner than block				
0075	75	04-07-14	Detail of cable routed through concrete foundation at northeast corner. Earth (?) or power cable (?) from south-southeast	NNW			
0076	76	04-07-14	Detail of cable routed through concrete foundation at northeast corner. Earth (?) or power cable (?) from south-southeast	NNW		✓	
0077	77	04-07-14	Detail of cable routed through concrete foundation at northeast corner. Earth (?) or power cable (?) from southwest	SE			
0078	78	04-07-14	Detail of cable routed through concrete foundation at northeast corner. Earth (?) or power cable (?) from southwest	SE		✓	
0079	79	04-07-14	View of plaque and surrounding wall of northeast corner of building			✓	
0080	80	04-07-14	View of plaque and surrounding wall of northeast corner of building				
0081	81	04-07-14	Detail of plaque on north wall near northeast corner				
0082	82	04-07-14	Detail of plaque on north wall near northeast corner			✓	
0083	83	04-07-14	Detail of plaque on north wall near northeast corner with scale				
0084	84	04-07-14	Detail of plaque on north wall near northeast corner with scale			✓	
0085	85	04-07-14	Detail of upper end fastening on diagonal strut on north wall				



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: STRARCH)	Field no.						
0086	86	04-07-14	Detail of upper end fastening on diagonal strut on north wall, viewed more straight-on				
0087	87	04-07-14	Detail of lower end weld joint on diagonal strut on north wall, northeast corner				
0088	88	04-07-14	Detail of lower end weld joint on diagonal strut on north wall, northeast corner			✓	
0089	89	04-07-14	Wider context shot of diagonal strut on north wall (west end of strut)				
0090	90	04-07-14	Raised concrete block on footing of central upright	SE			
0091	91	04-07-14	Raised concrete block on footing of central upright	SE		✓	
0092	92	04-07-14	Detail of raised block on footing at central south wall			✓	
0093	93	04-07-14	Detail of raised block on footing at central south wall				



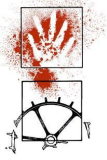
6.4 Photographic Thumbnail Compendium

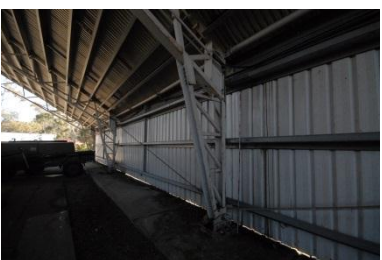


		
STRARCH 001	STRARCH 002	STRARCH 003
		
STRARCH 004	STRARCH 005	STRARCH 006
		
STRARCH 007	STRARCH 008	STRARCH 009
		
STRARCH 0010	STRARCH 0011	STRARCH 0012
		
STRARCH 0013	STRARCH 0014	STRARCH 0015






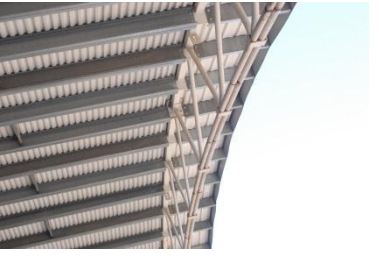




		
STRARCH 0016	STRARCH 0017	STRARCH 0018
		
STRARCH 0019	STRARCH 0020	STRARCH 0021
		
STRARCH 0022	STRARCH 0023	STRARCH 0024
		
STRARCH 0025	STRARCH 0026	STRARCH 0027
		
STRARCH 0028	STRARCH 0029	STRARCH 0030














		
STRARCH 0031	STRARCH 0032	STRARCH 0033
		
STRARCH 0034	STRARCH 0035	STRARCH 0036
		
STRARCH 0037	STRARCH 0038	STRARCH 0039
		
STRARCH 0040	STRARCH 0041	STRARCH 0042
		
STRARCH 0043	STRARCH 0044	STRARCH 0045



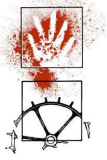
		
STRARCH 0046	STRARCH 0047	STRARCH 0048
		
STRARCH 0049	STRARCH 0050	STRARCH 0051
		
STRARCH 0052	STRARCH 0053	STRARCH 0054
		
STRARCH 0055	STRARCH 0056	STRARCH 0057
		
STRARCH 0058	STRARCH 0059	STRARCH 0060



		
STRARCH 0061	STRARCH 0062	STRARCH 0063
		
STRARCH 0064	STRARCH 0065	STRARCH 0066
		
STRARCH 0067	STRARCH 0068	STRARCH 0069
		
STRARCH 0070	STRARCH 0071	STRARCH 0072
		
STRARCH 0073	STRARCH 0074	STRARCH 0075



		
STRARCH 0076	STRARCH 0077	STRARCH 0078
		
STRARCH 0079	STRARCH 0080	STRARCH 0081
		
STRARCH 0082	STRARCH 0083	STRARCH 0084
		
STRARCH 0085	STRARCH 0086	STRARCH 0087
		
STRARCH 0088	STRARCH 0089	STRARCH 0090



		
STRARCH 0091	STRARCH 0092	STRARCH 0093



6.5 Sample Set of Photographic Prints



Figure 6.4 General view of eastern hanger entrance, looking W, (Image no. STRARCH 0001)



Figure 6.5 General view of hanger side, looking S, Image no. STRARCH 0004)



Figure 6.6 The western hanger entrance, looking E, (image no. STRARCH 0010)



Figure 6.7 The western hanger entrance, looking NE, (image no. STRARCH 0013)



Figure 6.8 General side view of end trussed column assembly at SE corner of hanger, looking W, (image no. STRARCH 00019)



Figure 6.9 Detail view of SE corner of hanger showing lower column assembly, baseplate and concrete footing, (image no. STRARCH 0023)



Figure 6.10 General interior view, looking SW, showing arch trusses, and columns, (image no. STRARCH 0028)

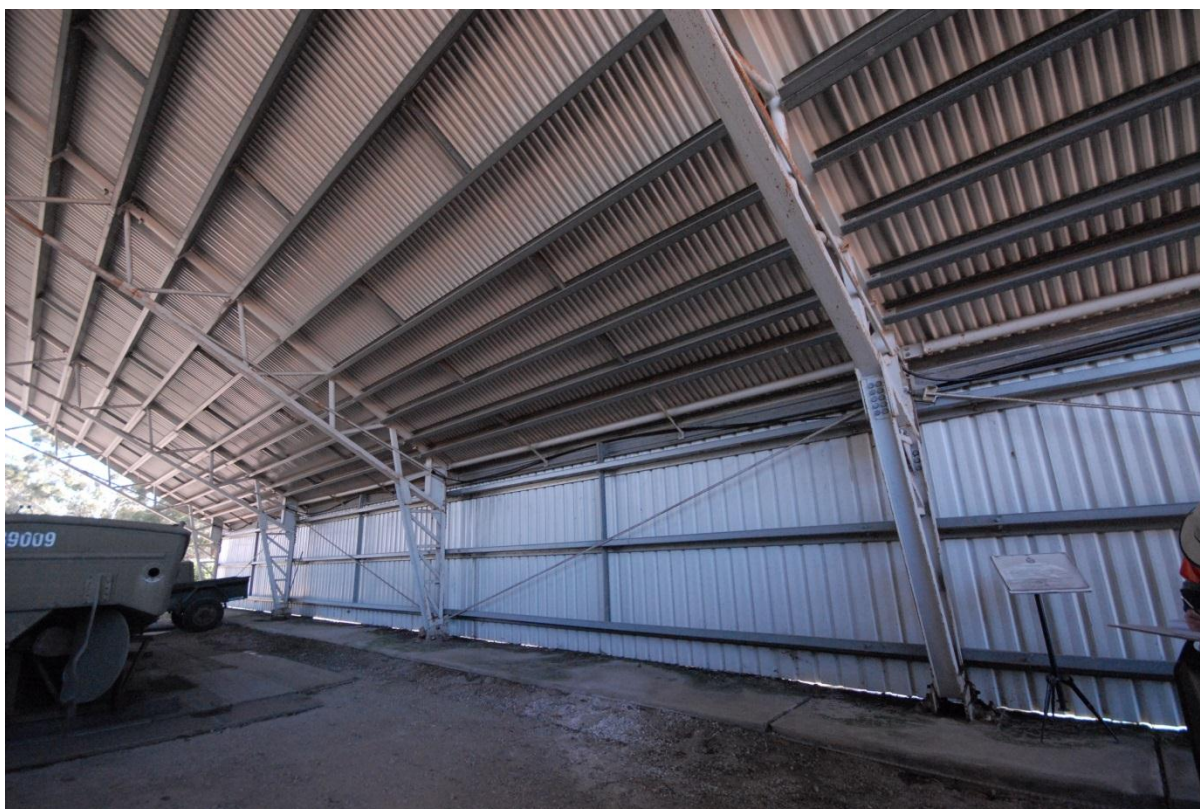


Figure 6.10 General interior view of northern wall, looking NW, showing column assemblies and cross bracing, (image no. STRARCH 0029)

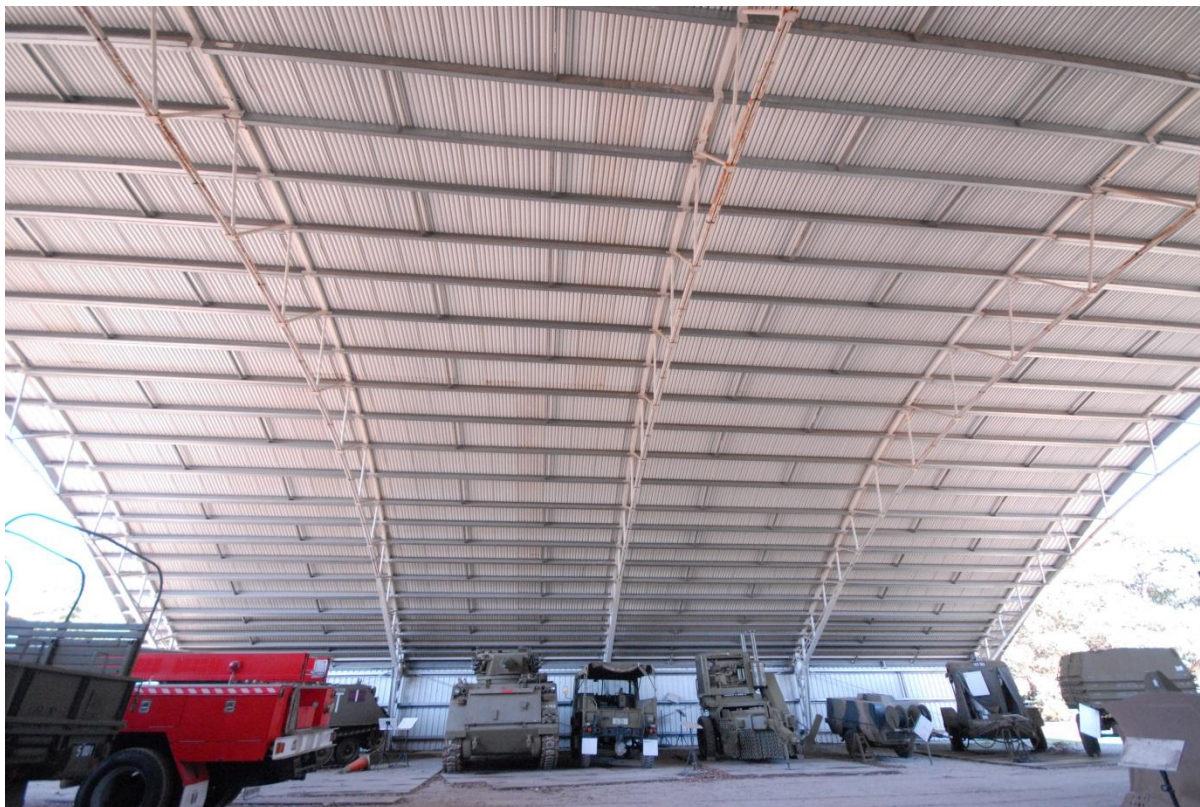


Figure 6.11 General interior view of roof, looking S, (image no. STRARCH 0030)

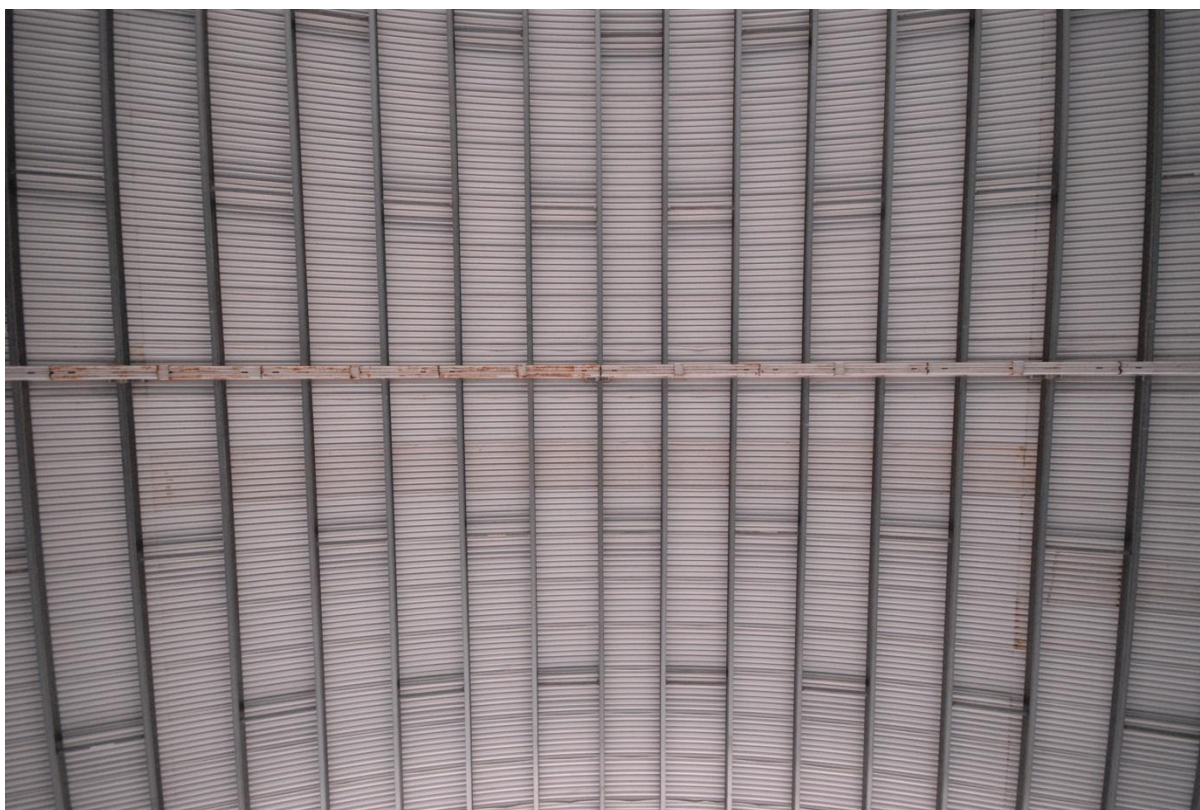


Figure 6.12 General view of roof, looking directly up, (image no. STRARCH 0031)



Figure 6.13 End-on view of column assembly, showing also cross bracing, (image no. STRARCH 0040)



Figure 6.14 Detail of baseplate (image no. STRARCH 0046)



Figure 6.15 Side view of baseplate and horizontal pinning of column, (image no. STRARCH 0047)



Figure 6.16 Detail of upper column, showing tensioning tendon and cross bracing strut, (image no. STRARCH 0060)



Figure 6.17 General interior view of column footings along northern wall, looking E, (image no. STRARCH 0065)



Figure 6.18 Detail of roof truss and purlins, (image no. STRARCH 0066)

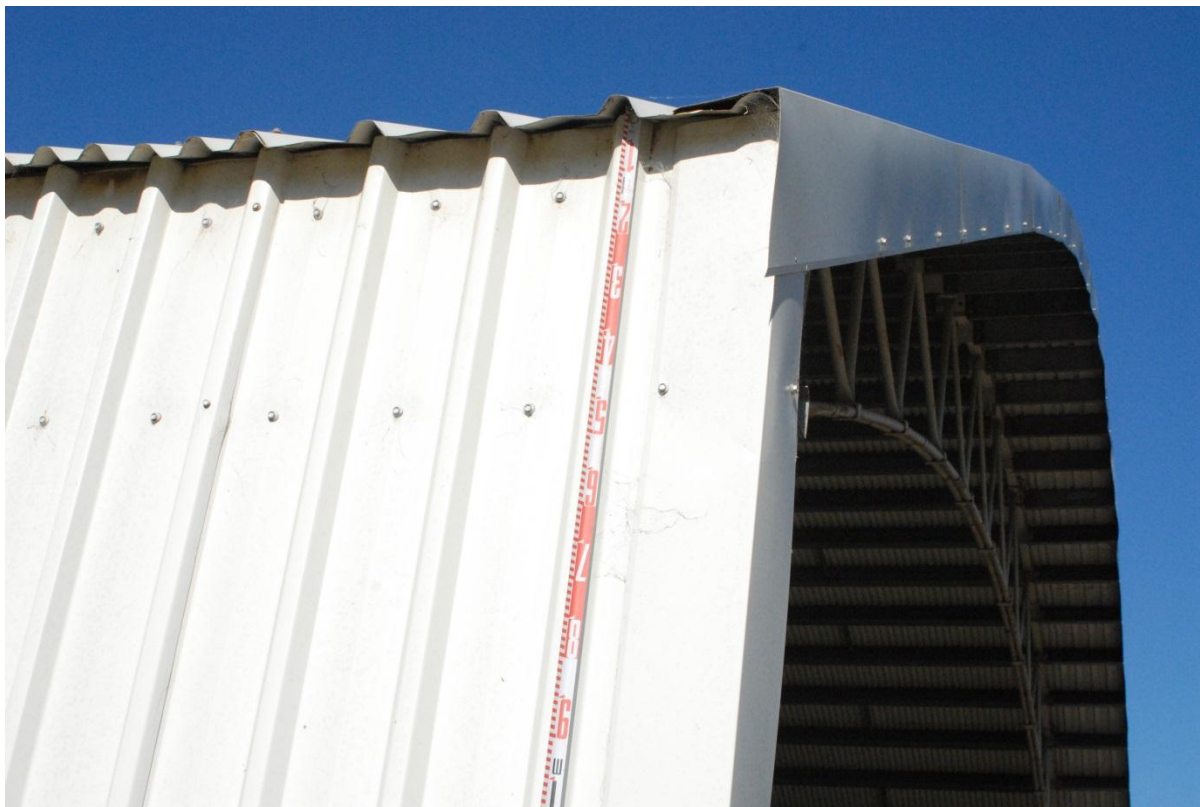


Figure 6.19 Detail of exterior cladding and edge finish at NW corner of hanger, looking S, (image no. STRARCH 0070)



Figure 6.20 Detail of exterior wall and roof cladding, looking parallel to, and in the area of a truss, looking S, (image no. STRARCH 0072)



Figure 6.21 Exterior detail of a concrete footing with later paving 'infill' on either side, (image no. STRARCH 0073)



Figure 6.22 Unidentified in-situ feature at NE corner of hanger (image no. STRARCH 0076)



Figure 6.23 General context view of commemorative plaque, looking N, (image no. STRARCH 0079)



Figure 6.24 Commemorative plaque (image no. STRARCH 0083)



Figure 6.25 Detail of cross-bracing strut attachment to upper column assembly, (image no. STRARCH 0085)



Figure 6.26 Detail of cross-bracing strut attachment to lower column assembly, (image no. STRARCH 0088)

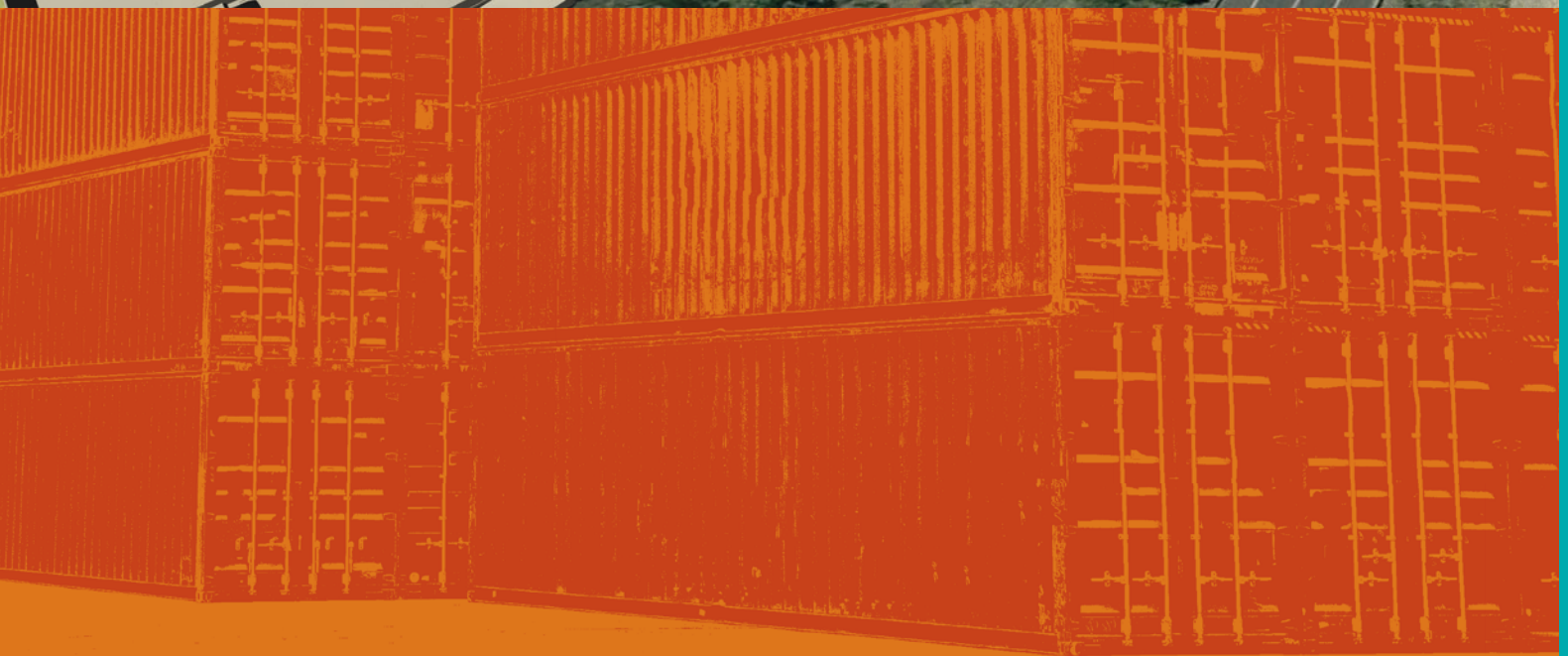


Figure 6.27 General context view of small interior concrete platform near southern hanger wall, looking SE, (image no. STRARCH 0091)



Figure 6.28 Detail of small interior concrete platform near southern hanger wall, looking SE, (image no. STRARCH 0093)

Appendix K Cultural Heritage Archival Recordings





7. CUST HUT

7.1 Description

Historical Context

The CUST (Cullen Universal Steel Truss) Hut was invented by an engineering officer, Lieutenant Colonel D.R. (Dan) Cullen, during World War II. He had served with the 7th Division Engineers in the Middle East where he also designed a series of bridges with rolled steel joists. On his return to Australia in 1942, he was one of the select group of officers handpicked to revamp the courses at SME. After the war, Cullen served in the Occupation Force in Japan where, in collaboration with another engineering officer, he had planned the new city of Hiroshima. He died in July 1971.¹

With the ending of the Second World War and the demobilisation of Australian forces, SME's role and responsibilities declined to a low level and its staffing numbers concomitantly dropped. By December 1945 there were nine officers and 77 other ranks. A year later, the RAE Training Centre at Kapooka (near Wagga Wagga) was disbanded and an RAE Recruit Training Squadron rose in its stead at Moorebank. Placed under the command of SME, it was later titled the Depot Squadron.²



Figure 7.1 1945 photo of a CUST Hut ('Igloo hanger'), at Winnellie, Darwin, constructed in late 1944, (Northern Territory Library <http://hdl.handle.net/10070/18865>)

¹ Anon., Royal Australian Engineers: Heritage Precinct Guide, c. 2005, 'No. 8: The CUST Hut'; McNicoll, The Royal Australian Engineers 1919 to 1945, pp. 90, 146; Greville, The Royal Australian Engineers 1945 to 1972, p. 439.

² Hutcheson, Army Journal, May 1971, pp. 45-6; Greville, The Royal Australian Engineers 1945 to 1972, pp. 189, 190, 191, 192.



It may have been shortly after these developments, and as a result of them, that the CUST Hut was relocated from Kapooka to Moorebank. A site plan dating from November 1956 implies that the building was on site before 1948. Another source, however, states that it was erected 'in approximately 1952' (NOHC 2014c). It is likely that the CUST Hut was fabricated and erected at Kapooka between Lieutenant Colonel Cullen's posting to Kapooka in 1942 and the end of the war in 1945. The original components are therefore approximately 70 years old (Parsons Brinckerhoff 2014).

At the time of the 1956 site plan, the Hut was occupied by the Plant, Roads and Airfield [PRA] Troop, which was part of the school's Military Training Wing. The building at this time was open at both ends and apparently had an earthen floor.³

Location

The CUST hut faces Ripon Road and is situated in the Heritage Park area of the SME, Steele Barracks.

Map grid references (MGA datum):

NE corner	307658.6240785
NW corner	307608.6240808
SE corner	307638.6240743
SW corner	307588.6240766

The Structure

The CUST Hut, (Building s135), is a large clear span vaulted roof building. The building has dimensions 47.1 x 56 m, and a height of 10.25 m, (maximum truss height is 9.1m). The roof is clad in white Colorbond custom orb. Along the long axis of the building, the roof carries through to ground level where large concrete open drains collect rainwater. The eastern and western end of the building has been filled in (originally open) with face red brick to approximately three metres above ground, then Colorbond clad to the roof level.

Powder coated aluminium framed windows have been installed in the end walls above the brick work. Doorways are limited to personnel access doors and roller doors in the gable ends.

The finishes in the end walls and roof are consistent with the 1990s period. The replacement of roofing is confirmed by the presence of safety mesh under the roof sheeting. This practice was only introduced in the past two decades.

The underside of the cladding has the following identifier text:

BHP STEEL COLOURBOND (R) XRW 29/12/96 NO3 PAINT LINE C/C 066

Captain Brian Collings, a retired RAE Supplementary Reserve officer with many years involvement with the RAE Museum, negotiated a government funding package for refurbishment of the CUST Hut. Collings confirms that refurbishment was undertaken by a contractor and the work included new roof purlins and cladding. This work substantially modified the original open ended design by the addition of brick end walls, new steel frames supporting the end trusses, windows and roller shutter doors at each end (quoted in Parsons Brinckerhoff 2014).

The interior of the building is a very large, column free space with unlined vaulted roof over. The solid roof sheeting is interspersed with bands of translucent sheeting. The truss frame of the roof and all roof and wall framing is exposed. Large modern Hi-bay type lights are suspended from the roof. The

³ 'Layout of Engineer Barracks Casula', attached to 'Development of Engineer Barracks Casula', Appendix G to E-in-C's Liaison Letter, No. 29, 1 December 1956; Greville, *The Royal Australian Engineers 1945 to 1972*, p. 206.



building is presently used to store, maintain and repair the RAE Museum's collection of historic military plant and equipment.

The building has a concrete floor slab throughout. A close inspection of the floor suggests that the concrete surface was constructed in three separate stages. Each stage characterised by different techniques and standards. The first stage involved a wide corridor of thick square slabs (9 m wide) along the long axis of the building, prior to the enclosing of the hut ends. A second phase involved thinner slabs installed in rectangular strips extending 15.2 m to either side of the central axis slab, to close to the truss anchor points. The last phase involved infilling the remaining interior periphery, including around (and covering) the truss anchor points, and around the end walls. This work is characterised by the use of expansion joints and may have been contemporaneous with the 1990s refurbishment.

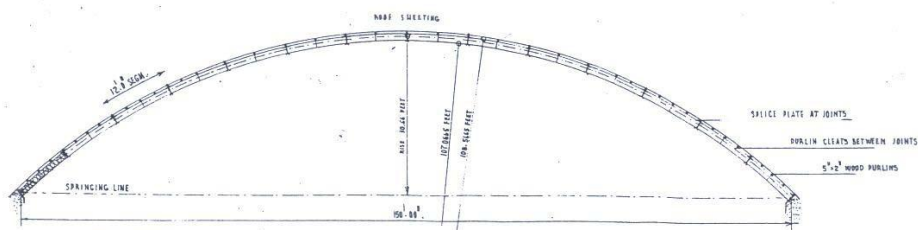
Comparative analysis

The following comparative analysis is taken from the 2004 Heritage Assessment by Graham Brookes and Associates. An example of a CUST hut in private ownership exists on Moorebank Avenue (owned by the Manheim Car Group, Australian Map Grid reference: 308344.6242832) and has been sighted from street frontage in the preparation of the current study.

The CUST hut is a 'Clearspan' arched building, generally 204 x150 feet in area, which is constructed of a series of 12 foot long arched segments, connected together by splice plates, and at either end by pin joints to concrete abutments end (refer Figure 9.2 for cross-section of a 'Clearspan').

The CUST hut located within the SME at Moorebank would appear to be the only one of its kind still in Defence ownership in NSW. Historic photographs show a similar arched building at the former Penrith Engineer Stores Depot, however this building was demolished in the early 1990s. A similar arched building may have also been located at Ingleburn Defence site (Former Engineering Workshop), demolished in the late 1990s.

It is difficult to determine whether there are other such buildings remaining in private ownership and occupation in Sydney. There appears to be two 'Clearspan' arched structures located at the Heffron Park sports complex at Randwick, originally constructed as Naval Stores, and later used as the Bunnerong Migrant Hostel. These buildings have not been inspected, and are in private ownership and use.



(Specification and drawing types of prefabricated buildings and houses, Department of Works Melbourne)

Figure 7.2 A cross section through a 'Clearspan' prefabricated arched building



**Figure 7.3 1946 photo of CUST hut at No.2 Engineering Stores Depot, Penrith, NSW
(Photographer Bruce Reddaway, Australian War Memorial 125812)**

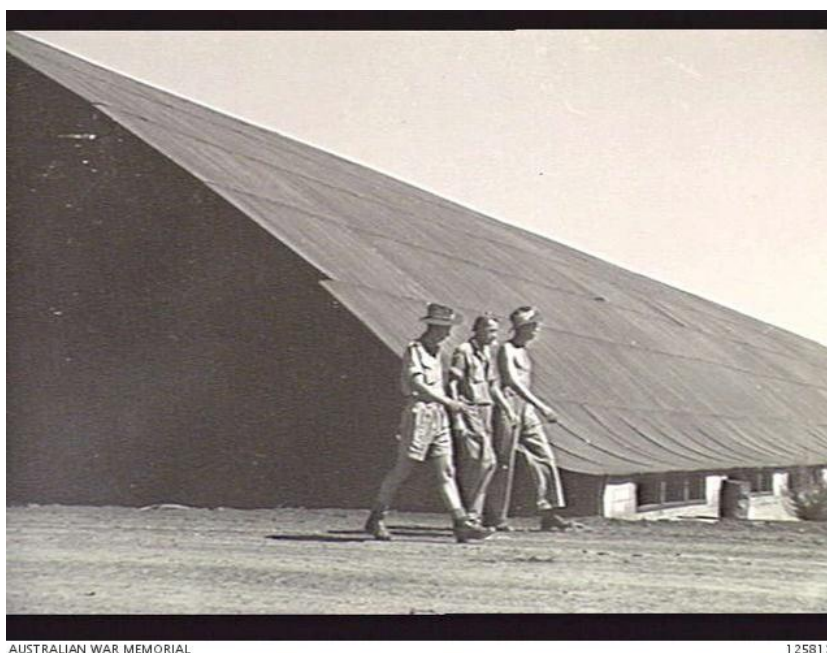


Figure 7.4 1946 photo of CUST hut at No.2 Engineering Stores Depot, Penrith, NSW. Note curved margin to the roof edge, similar to the Moorebank hut (Photographer Bruce Reddaway Australian War Memorial 125813)

Detailed structural description

The following structural description of the hanger comes from the 2014 structural assessment by Parsons Brinckerhoff (Parsons Brinckerhoff 2014).

The structural arrangement comprises 14 internal arched open web steel CUST trusses spanning the clear width. The two end trusses are supported by intermediate steel columns which provide lateral support to the brick end walls and support the roller shutter doors and frames. The trusses are spaced at approximately 3.67m centres. Each truss is embedded into the concrete at floor level. No holding down bolts or baseplates are visible at the truss



supports. The CUST Hut is therefore not considered to be “re-deployable” in its current configuration.

New coated corrugated metal cladding was installed during the refurbishment in the mid 1990's. The cladding includes translucent sheets above each CUST Truss that transmit natural light into the interior. The roof cladding is supported by galvanised steel Z section purlins spanning between trusses. Thin galvanised wire safety mesh is installed above the purlins under the cladding.

The end wall cladding is supported on Z section girts. The purlins and girts were also installed during the refurbishment program.

Roof bracing is provided by timber diagonals at every third or fourth bay connected to the bottom chords of the truss. Timber struts run between braced bays the entire length of the building and tie into panel points of the roof bracing.

A ridge ventilator runs the entire length of the roof. Each end of the building has a roller shutter door with brick end walls, cladding and aluminium windows. Each end has a similar structural arrangement with girt posts.

A drainage trench runs down each side of the building externally with falls to one end to drain rainwater runoff from the roof. A concrete slab surrounds the perimeter with an apron slab at the west end.

It is apparent that flooding is a problem for the site and this may have influenced the decision to construct a floor slab inside the building to raise the floor level above the top of the truss bases. A gravel bund was sighted outside the north western door and RAE Museum staff confirmed its function as a flood mitigating device.

The internal concrete floor slab appears to have been cast after the building was constructed but before the end walls were added. It was not possible to determine the age of the floor slab or assess its foundation detail.

The 14 internal roof trusses comprise a 2 pinned laced arch spanning the entire width, cast into the floor slab. The two end trusses are of similar design with intermediate support from the end wall steel columns added during the refurbishment. The top and bottom chords are comprised of flat plate with the diagonals of double laced solid bar. Where required the chords are strengthened with angles sections stitch welded to the flat plate.



7.1.1 Key to Plans and Drawings

KEY

	Door
	Roller door
	Vertical 'I' column and footing
	Foundation for vertical 'I' column and footing
	Ground contact with truss
	Truss span
	Truss foundation
	Brick wall
	Colourbond roof
	Open drainage trench and drop inlet
	Concrete floor slab joins – stage one: central axis
	Concrete floor slab joins – stage two: either side of axis
	Concrete floor slab joins – stage three: periphery
	Diagonal roof bracing
	Timber struts
	Roof purlins
	Roof light

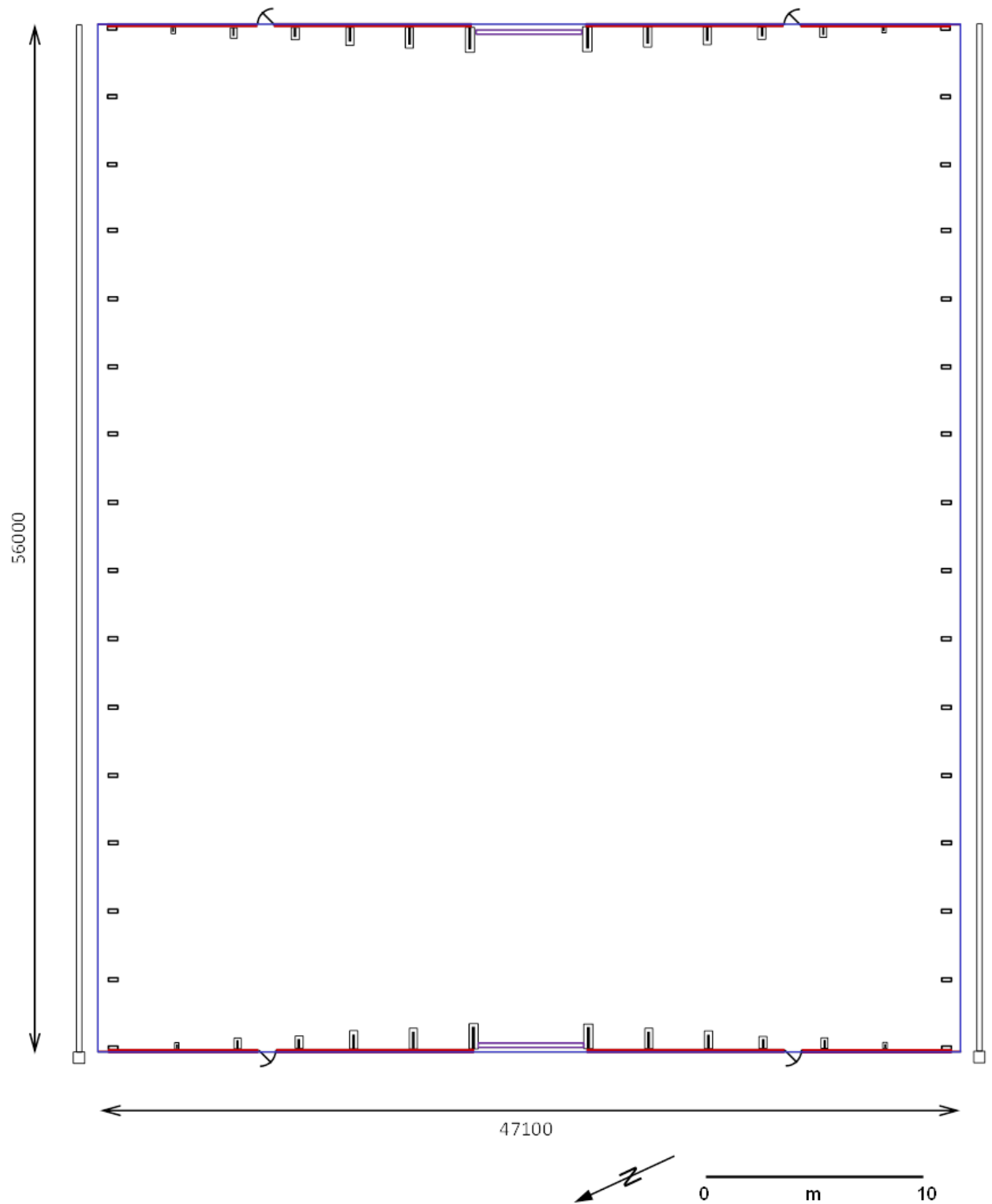
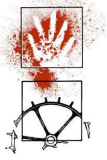


Figure 7.5 Plan of CUST Hut, showing external drains, wall and roof supports

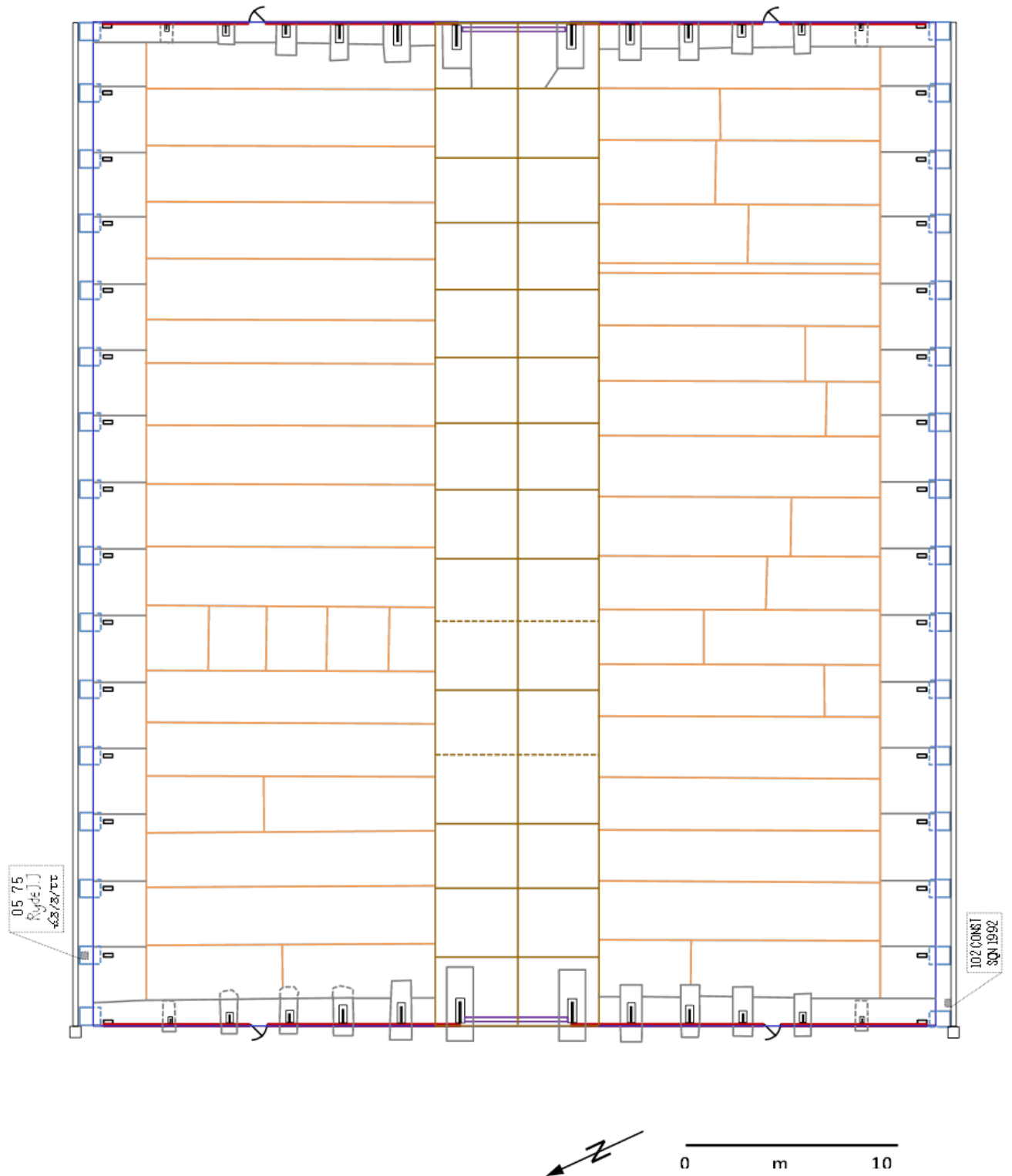


Figure 7.6 Plan of CUST Hut, showing ground features including evident footings, and concrete slab joins

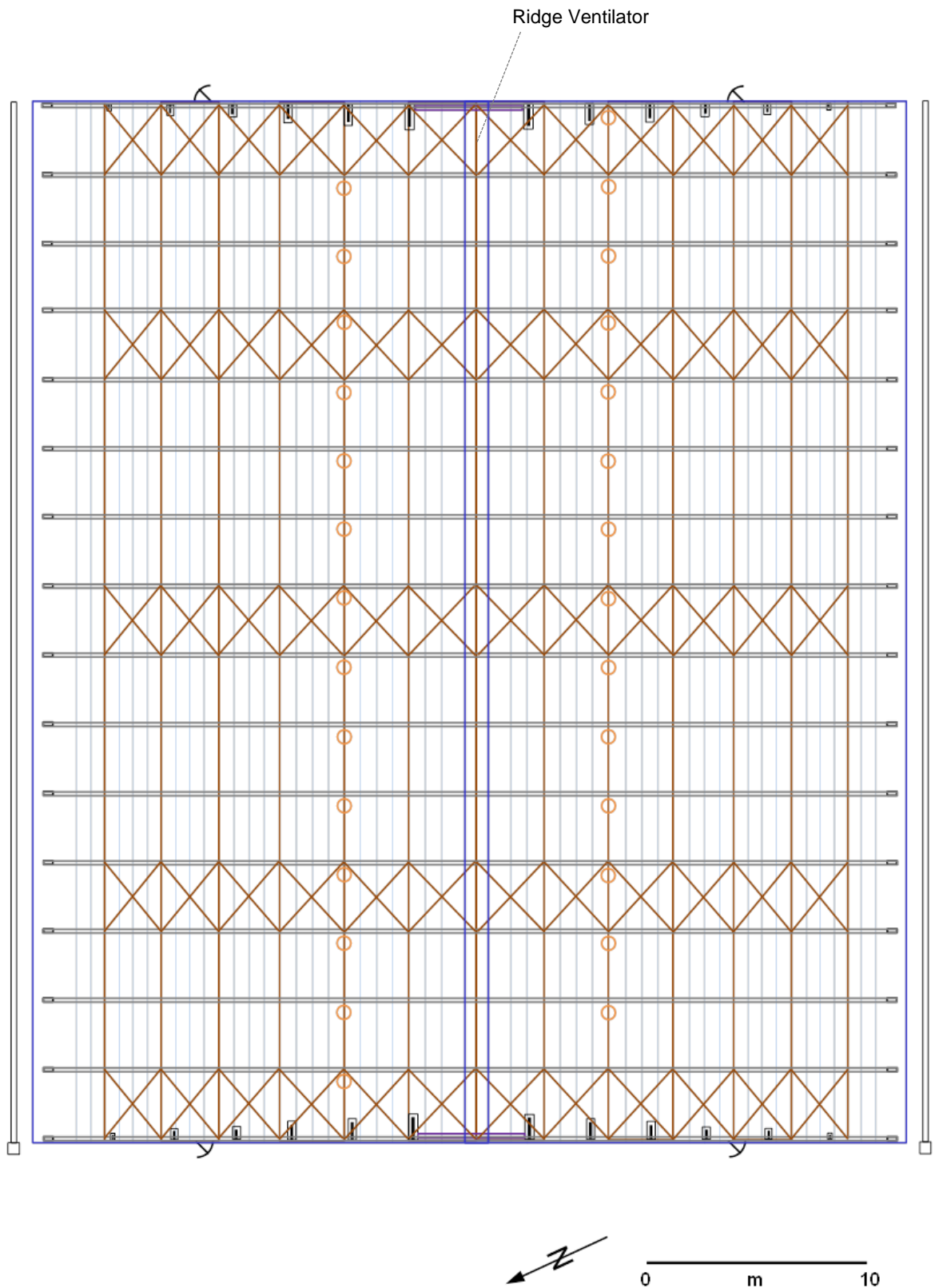
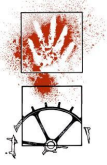


Figure 7.7 Plan of CUST Hut, showing trusses and roof elements

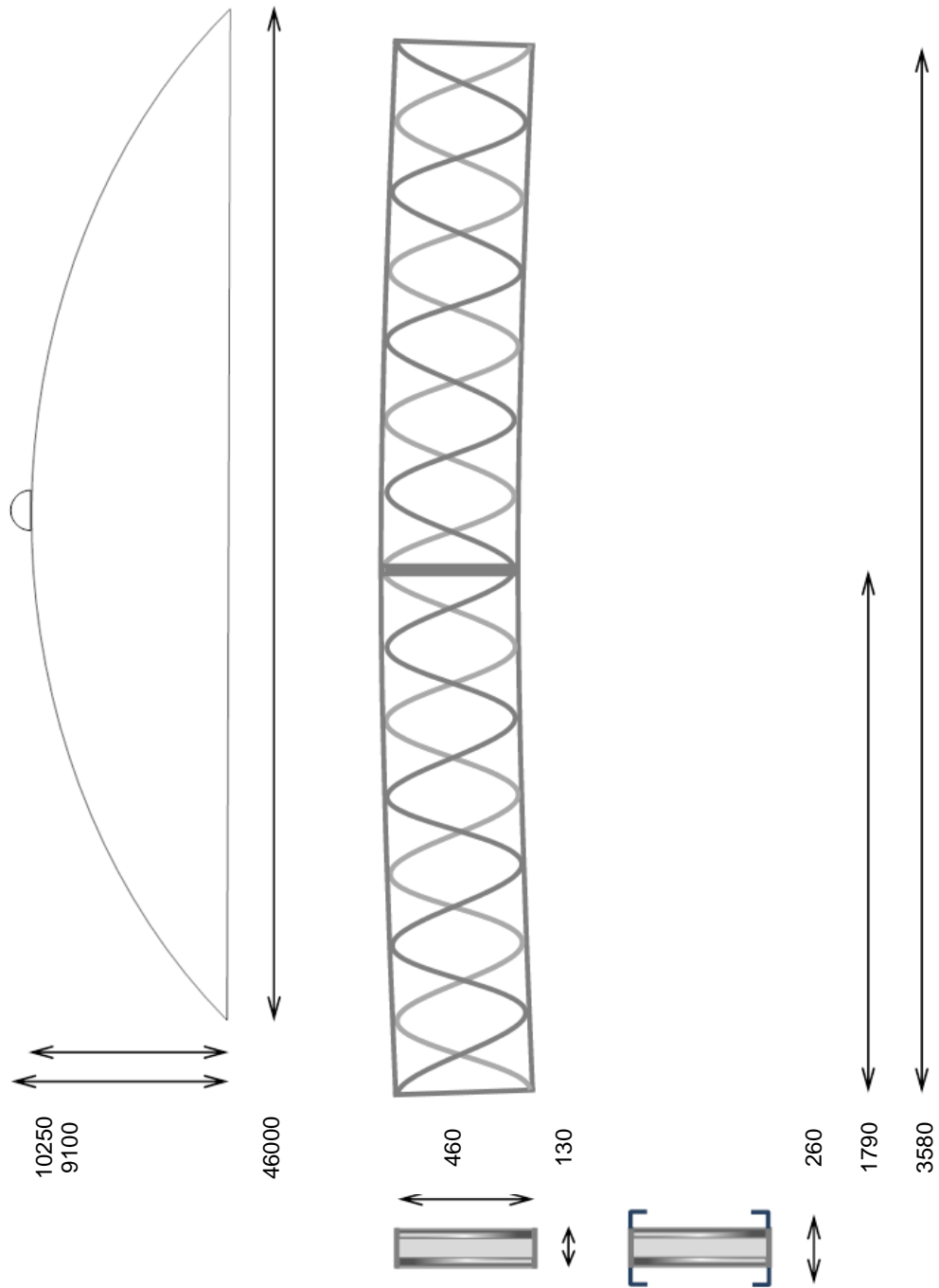


Figure 7.8 Drawings and dimensions (mm) of truss elements and overall building dimensions

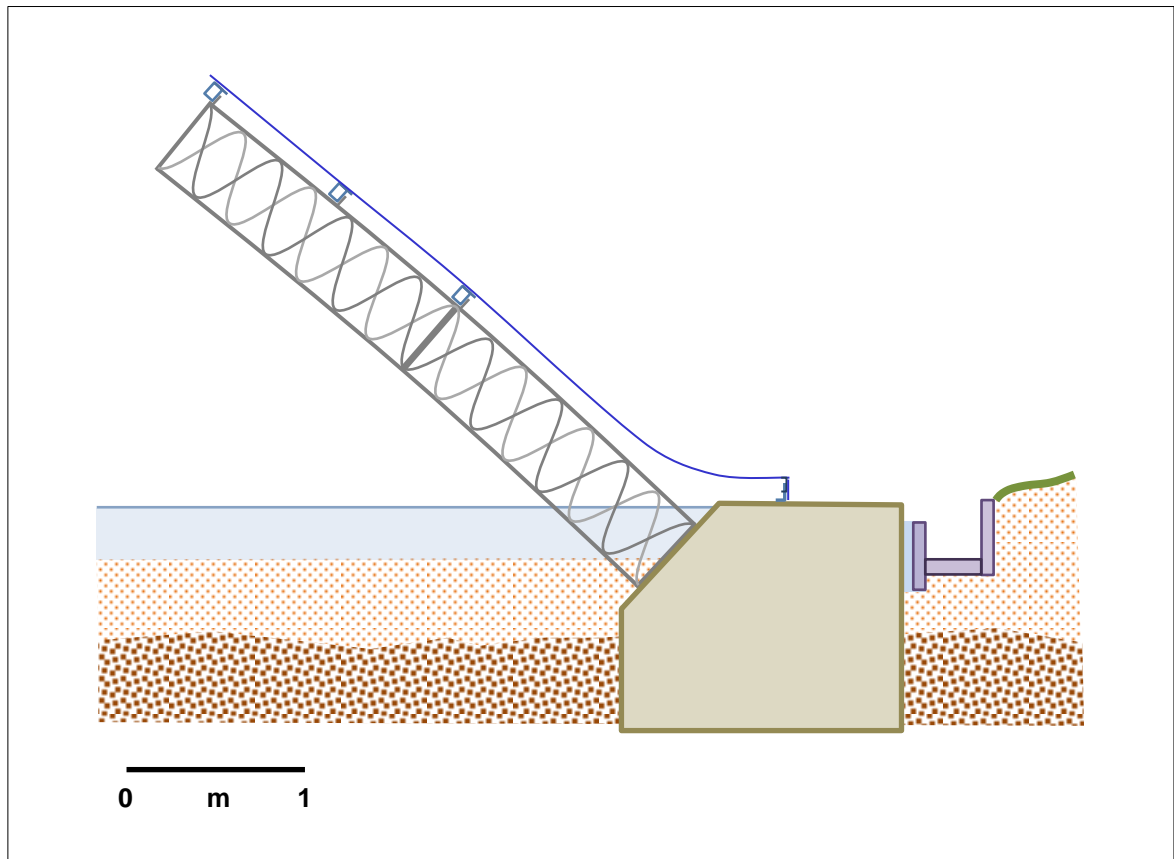
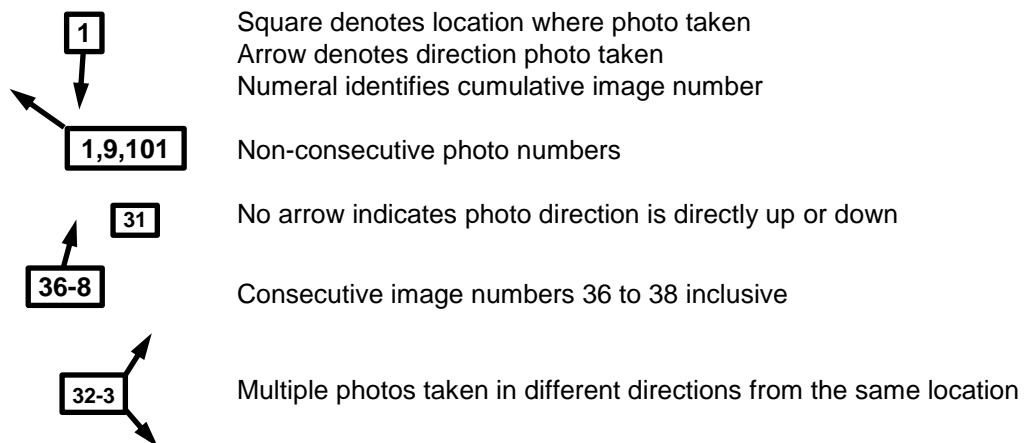


Figure 7.9 Interpretation of truss footing and attachment, based on surface evidence only. (All detail below ground is conjecture).



7.2 Plans of Photograph Locations

KEY



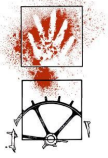


Figure 7.10 Aerial photo of CUST Hut area, showing location of most exterior photo locations. All numbers have a 'CUST' prefix. (Base image from Google Earth Pro 2014, image date: 1/1/2009).

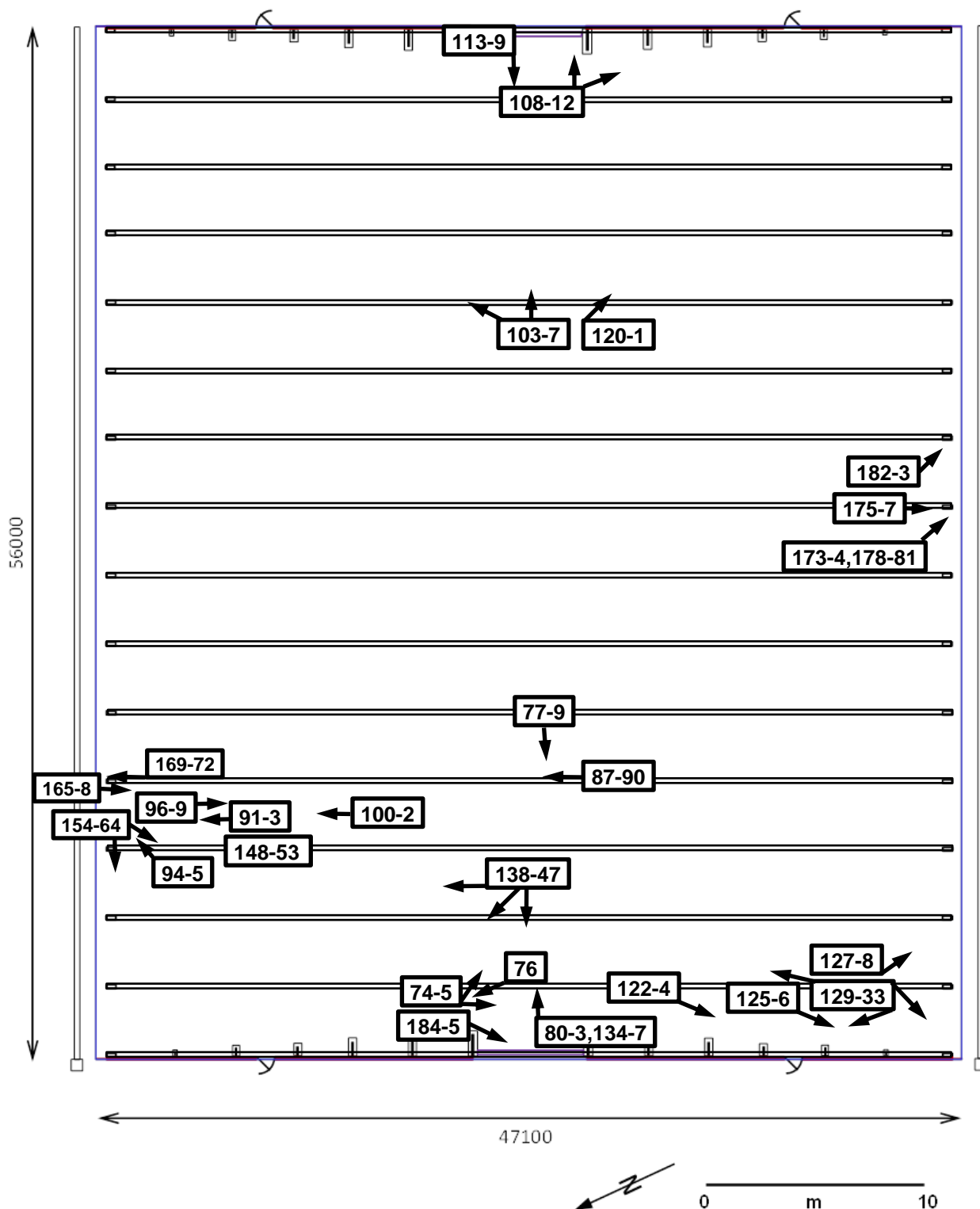


Figure 7.11 Plan of CUST Hut photo locations. All numbers have a 'CUST' prefix.



7.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
0001	1	10-7-14	From southwest looking at whole hut	NE			10
0002	2	10-7-14	From southwest looking at whole hut	NE	+		20
0003	3	10-7-14	From southwest looking at whole hut	NE			20
0004	4	10-7-14	From southwest looking at whole hut	NE	-		20
0005	5	10-7-14	From southwest corner looking at southwest corner	NE	+		10
0006	6	10-7-14	From southwest corner looking at southwest corner	NE			10
0007	7	10-7-14	From southwest corner looking at southwest corner	NE	-		10
0008	8	10-7-14	Looking from driveway towards east face	E			10
0009	9	10-7-14	Looking from driveway towards east face	E	-		10
0010	10	10-7-14	Near northwest corner looking across front (west face) of hut	SW			10
0011	11	10-7-14	Looking at front of hut and north side	SW	+		15
0012	12	10-7-14	Looking at front of hut and north side	SW			15
0013	13	10-7-14	Near northwest corner looking along front (east face) and north side	S			15
0014	14	10-7-14	Near northwest corner looking along front (east face) and north side	S	+		15
0015	15	10-7-14	Looking along north side of hut with drain in line with photo. Vertical format	E			15
0016	16	10-7-14	Looking along north side of hut with drain in line with photo. Horizontal format	E			15
0017	17	10-7-14	Detail of wall foundation showing several phases of concrete and large foundation block. Angled down	S	+		15
0018	18	10-7-14	Detail of wall foundation showing several phases of concrete and large foundation block. Angled down	S			15
0019	19	10-7-14	Context of inscription on foundation slab of truss. Angled down	S			10
0020	20	10-7-14	Looking straight down on inscription on foundation slab				28
0021	21	10-7-14	Looking straight down on inscription on foundation slab				35
0022	22	10-7-14	Looking straight down on inscription on foundation slab		-		35
0023	23	10-7-14	Looking straight down on inscription on foundation slab, no scale				35
0024	24	10-7-14	Looking straight down on inscription on foundation slab, no scale		-		35
0025	25	10-7-14	Looking at northeast corner	SSW			10
0026	26	10-7-14	Same position, looking at west end of building	S			10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0027	27	10-7-14	Near northeast corner, looking along drain. Angled downwards	W			10
0028	28	10-7-14	Same position looking at northeast corner of building	SW	-		10
0029	29	10-7-14	Same position looking at northeast corner of building	SW	+		10
0030	30	10-7-14	Looking at eastern face	W	+		10
0031	31	10-7-14	Looking at eastern face	W			10
0032	32	10-7-14	East face of building	W	+		10
0033	33	10-7-14	East face of building	W			10
0034	34	10-7-14	Looking at whole building towards southeast corner	NW	--		12
0035	35	10-7-14	Looking at whole building towards southeast corner	NW	+		12
0036	36	10-7-14	Looking at whole building towards southeast corner	NW			12
0037	37	10-7-14	Looking along drain on south side. Vertical format	NW			14
0038	38	10-7-14	Looking along drain on south side. Horizontal format	NW	+		12
0039	39	10-7-14	Looking along drain on south side. Horizontal format	NW			12
0040	40	10-7-14	Looking along base of rood at south side, showing foundation blocks protruding from surrounding cement	W	-		19
0041	41	10-7-14	Looking along base of roof at south side, showing foundation blocks protruding from surrounding cement	W			19
0042	42	10-7-14	Looking at whole south side of building	NE			10
0043	43	10-7-14	Looking at southern portion of southern side of building	NE			20
0044	44	10-7-14	Looking at southern portion of southern side of building	NE	+		20
0045	45	10-7-14	Looking along south face, showing drainage trench	SE			17
0046	46	10-7-14	Looking along south face, showing drainage trench	SE		✓	17
0047	1	11-07-14	Looking at southwest corner. Wide angle (8:30am)	NE			14
0048	2	11-07-14	Looking at north face from top of driveway	E	+		10
0049	3	11-07-14	Looking at north face from top of driveway	E			10
0050	4	11-07-14	Looking at north face	SE	+		10
0051	5	11-07-14	Looking at north face. Exposure corrected	SE			10
0052	6	11-07-14	Looking at northwest corner	SE			10
0053	7	11-07-14	Looking at northwest corner	SE	+		10
0054	8	11-07-14	Looking at northwest corner	SE			10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0055	9	11-07-14	Looking at northwest corner	SE			20
0056	10	11-07-14	Looking along eastern part of north side of building	SE			20
0057	11	11-07-14	Looking along eastern part of north side of building	SE	-		20
0058	12	11-07-14	Looking along drain on south side	W			15
0059	13	11-07-14	Looking along drain on south side. Angled down	E	+		16
0060	14	11-07-14	Looking along drain on south side. Angled down	E			16
0061	15	11-07-14	Looking horizontally along drain	E			16
0062	16	11-07-14	Detail of west end of drain on south side of hut. Angled down.	E			28
0063	17	11-07-14	As above, lower elevation looking along drain	E			28
0064	18	11-07-14	Looking along west face showing wall and windows	NE	-		28
0065	19	11-07-14	Looking along west face showing wall and windows	NE			28
0066	20	11-07-14	Looking along south drain-foundation blocks. Angled down	W			28
0067	21	11-07-14	Looking at foundation block, showing broken cement layer along south edge of block. Angled down	N			28
0068	22	11-07-14	Looking at foundation block, showing broken cement layer along south edge of block. Angled down. Exposure corrected	N	+		28
0069	23	11-07-14	Looking at translucent strip in roofing. Lichen growth on colourbond and transparent material. Presumed to be same age				28
0070	24	11-07-14	Looking at foundation block, showing broken cement layer along south edge of block. Angled down		-		28
0071	25	11-07-14	Looking at foundation block, showing broken cement layer along south edge of block. Angled down		+		28
0072	26	11-07-14	As above, showing edge of roof. Angled down				28
0073	27	11-07-14	As above, showing edge of roof. Angled down		-		28
0074	28	11-07-14	Looking at roof from west end of hut. Entire Y2 of truss span. Angled up	SE			10
0075	29	11-07-14	Same position, looking along west wall	S			10
0076	30	11-07-14	Looking along north half of west wall, showing foundation and wall supports of wall base	N			10
0077	31	11-07-14	Looking at west wall from mid-way down hut	W			10
0078	32	11-07-14	As above, looking at wall and roof. Angled up	W			10
0079	33	11-07-14	Same position looking straight up at roof				10
0080	34	11-07-14	Looking from centre west end of shed	E			11
0081	35	11-07-14	As above, looking at floor showing concrete slabs in central section of floor. Angled down				11
0082	36	11-07-14	As above, looking at roof. Angled up		-		11
0083	37	11-07-14	As above, looking at roof. Angled up				11



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0084	38	11-07-14	Floor showing join between central concrete slabs and with side slabs. Angled down	WSW			10
0085	39	11-07-14	Floor showing join between central concrete slabs and with side slabs. Angled down	WSW			20
0086	40	11-07-14	As above, Looking toward southeast corner, showing floor and roof	WSW			20
0087	41	11-07-14	Looking from centre of shed to north edge, showing entire half of floor and cross-braced section of roof	N	-		10
0088	42	11-07-14	Looking from centre of shed to north edge, showing entire half of floor and cross-braced section of roof	N	-		10
0089	43	11-07-14	Looking from centre of shed to north edge, showing entire half of floor and cross-braced section of roof	N			10
0090	44	11-07-14	Looking from centre of shed to north edge, showing entire half of floor and cross-braced section of roof	N			20
0091	45	11-07-14	Looking at north edge of roof. Representative shot of the roof truss bases	N	-		10
0092	46	11-07-14	Looking at north edge of roof. Representative shot of the roof truss bases, with scale	N			10
0093	47	11-07-14	Looking at north edge of roof. Representative shot of the roof truss bases, angled downward				10
0094	48	11-07-14	Looking at base and lower section of truss	NE	-		10
0095	49	11-07-14	Looking at base and lower section of truss	NE			10
0096	50	11-07-14	Looking along entire length of roof truss, angled upward	S			10
0097	51	11-07-14	Looking along entire length of roof truss, angled upward	S	-		10
0098	52	11-07-14	Same position, looking oblique across roof, angled upward	SE	+		20
0099	53	11-07-14	Same position, looking oblique across roof, angled upward	SE			20
0100	54	11-07-14	Looking at cross-bracing between trusses, angled upward	N	-		20
0101	55	11-07-14	Looking at cross-bracing between trusses, angled upward	N			20
0102	56	11-07-14	Looking at cross-bracing between trusses, angled upward	N		✓	20
0103	57	11-07-14	Looking at northeast corner of building	ENE	-		20
0104	58	11-07-14	Looking at northeast corner of building	ENE			20
0105	59	11-07-14	Same position, looking at east wall	E			20
0106	60	11-07-14	Same position, looking at roof and east wall, angled upward	E	-		20
0107	61	11-07-14	Same position, looking at roof and east wall, angled upward	E			20
0108	62	11-07-14	Showing east wall and cross-bracing between trusses	SSE	-		20
0109	63	11-07-14	Showing east wall and cross-bracing between trusses	SSE	--		20
0110	64	11-07-14	Showing east wall and cross-bracing between trusses	SSE			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0111	65	11-07-14	As above, showing top of roll door and roof, angled upward	SSE			20
0112	66	11-07-14	As above, showing top of roll door and roof, angled upward	SSE		✓	20
0113	67	11-07-14	Looking along length of building	W			20
0114	68	11-07-14	Looking along length of building	W			10
0115	69	11-07-14	Looking along length of building	W	-		10
0116	70	11-07-14	Looking along length of building	W			10
0117	71	11-07-14	Looking along length of building	W	-		10
0118	72	11-07-14	As above, angled up at roof	W			20
0119	73	11-07-14	As above, angled up at roof	W		✓	20
0120	74	11-07-14	Looking at floor feature, possibly former wall, angled downward	SE			20
0121	75	11-07-14	Looking at floor feature, possibly former wall, angled downward	SE		✓	20
0122	76	11-07-14	Looking at floor and west wall support and foundations	SW			10
0123	77	11-07-14	Looking at floor and west wall support and foundations	SW	-		10
0124	78	11-07-14	Looking at floor and west wall support and foundations	SW		✓	10
0125	79	11-07-14	Looking at join between west wall and roof	SSW			10
0126	80	11-07-14	Looking at join between west wall and roof	SSW		✓	10
0127	81	11-07-14	Looking at base of trusses on south edge of hut	SE			10
0128	82	11-07-14	Looking at base of trusses on south edge of hut	SE		✓	10
0129	83	11-07-14	Looking at southwest corner, showing interface wall and truss. Truss has plate cladding over it	SW		✓	10
0130	84	11-07-14	Looking at southwest corner, showing interface wall and truss. Truss has plate cladding over it	SW		✓	20
0131	85	11-07-14	Same position, looking at west wall	N			16
0132	86	11-07-14	Same position, looking at truss section in roof, angled upward	NE			15
0133	87	11-07-14	Same position, looking at truss section in roof, angled upward	NE		✓	15
0134	88	11-07-14	Looking along building central axis	ESE			35
0135	89	11-07-14	As above, angled up at roof	ESE	-		35
0136	90	11-07-14	As above, angled up at roof	ESE	-		35
0137	91	11-07-14	As above, angled up at roof	ESE		✓	35
0138	92	11-07-14	Looking at top of roller door and surrounding wall	W		✓	35
0139	93	11-07-14	Looking at top of roller door and surrounding wall	W			35
0140	94	11-07-14	Same position, looking at detail of raised roof air vent at top of roof, angled up	E			105



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0141	95	11-07-14	Same position, looking at detail of raised roof air vent at top of roof, angled up	E		✓	105
0142	96	11-07-14	As above, detail of cross bracing between trusses				105
0143	97	11-07-14	As above, detail of cross bracing between trusses			✓	105
0144	98	11-07-14	Same position, detail of cross-bracing between trusses	N			40
0145	99	11-07-14	Same position, detail of cross-bracing between trusses	N		✓	40
0146	100	11-07-14	As above, detail of rood light fixture	N			135
0147	101	11-07-14	As above, detail of rood light fixture	N		✓	135
0148	102	11-07-14	Looking at detail of plate join between truss sections. With cross bracing attached	E			92
0149	103	11-07-14	Looking at detail of plate join between truss sections. With cross bracing attached	E		✓	92
0150	104	11-07-14	Same position, looking at detail of join between truss sections	NNE			92
0151	105	11-07-14	Same position, looking at detail of join between truss sections	NNE		✓	92
0152	106	11-07-14	Same position, looking at another join between truss sections	N			92
0153	107	11-07-14	Same position, looking at another join between truss sections	N		✓	92
0154	108	11-07-14	Looking at join between truss sections, angled upwards	NW			34
0155	109	11-07-14	Looking at join between truss sections, angled upwards	NW		✓	34
0156	110	11-07-14	Similar position looking at join between truss sections, viewed edge on	N			35
0157	111	11-07-14	Similar position looking at join between truss sections, viewed edge on	N		✓	35
0158	112	11-07-14	Same position as (Field Number 108), looking along trusses along north edge of hut	N			36
0159	113	11-07-14	As above, join between truss, roof cladding, and roof stringers				75
0160	114	11-07-14	As above, join between truss, roof cladding, and roof stringers			✓	75
0161	115	11-07-14	Same position looking at trusses and roof, oblique view, angled upward	SW			50
0162	116	11-07-14	Same position looking at trusses and roof, oblique view, angled upward	SW		✓	50
0163	117	11-07-14	Same position, looking along truss toward top of roof, angled upward	S			48
0164	118	11-07-14	Same position, looking along truss toward top of roof, angled upward	S		✓	48
0165	119	11-07-14	Looking along truss, showing detail of truss construction and inner surface of joint between truss sections. Also shows L-section reinforcing	S			28
0166	120	11-07-14	Looking along truss, showing detail of truss construction and inner surface of joint between truss sections. Also shows L-section reinforcing	S		✓	28
0167	121	11-07-14	Looking along truss, showing detail of truss construction and inner surface of joint between truss sections. Also shows L-section reinforcing. With scale	S		✓	28



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0168	122	11-07-14	Looking along truss, showing detail of truss construction and inner surface of joint between truss sections. Also shows L-section reinforcing. With scale	S			28
0169	123	11-07-14	Detail of underside of truss showing L-section reinforcements welded to edges of truss	N			28
0170	124	11-07-14	Detail of underside of truss showing L-section reinforcements welded to edges of truss	N		✓	28
0171	125	11-07-14	As above, underside of truss and joining plate at intersection of truss sections. Viewed from underneath joint				28
0172	126	11-07-14	As above, underside of truss and joining plate at intersection of truss sections. Viewed from underneath joint			✓	28
0173	127	11-07-14	Context shot of welded plate attached to underside of truss, not associated with any join, presumed to be a strengthening repair	SE			11
0174	128	11-07-14	Context shot of welded plate attached to underside of truss, not associated with any join, presumed to be a strengthening repair	SE		✓	11
0175	129	11-07-14	Looking at repair plate on underside of truss	SE	-		28
0176	130	11-07-14	Looking at repair plate on underside of truss	SE			28
0177	131	11-07-14	Looking at repair plate on underside of truss	SE		✓	28
0178	132	11-07-14	From position (Field number 127), detail of truss footing including well-defined square around extent of original concrete foundation, now obscured by more recent concrete paving in other areas of the hut		--		28
0179	133	11-07-14	As for photo CUST 0178, with flash			✓	28
0180	134	11-07-14	As for photo CUST 0178, with horizontal scale				28
0181			As for photo CUST 0178, with flash, with horizontal scale			✓	28
0182	135	11-07-14	Looking at footing of truss. Foundation block protrudes above cement paving	SE			28
0183	136	11-07-14	Looking at footing of truss. Foundation block protrudes above cement paving	SE		✓	28
0184	137	11-07-14	Looking at inside of roller door frame and footing. Showing infilled trench at base of door	SSW			11
0185	138	11-07-14	Looking at inside of roller door frame and footing. Showing infilled trench at base of door	SSW			20
0186	1	09-07-14	Context picture showing location of footing with by-hand inscription, NW corner of building	ESE	-		35
0187	2	09-07-14	Context picture showing location of footing with by-hand inscription, NW corner of building, vertical format	ESE			35
0188	3	09-07-14	Oblique view of footing with by-hand inscription	ESE			35
0189	4	09-07-14	By-hand inscription		-		35
0190	5	09-07-14	Detail of by-hand inscription				35
0191	6	09-07-14	Detail of by-hand inscription		-		35



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: CUST)	Field no.						
0192	7	09-07-14	Context photo of location of formal inscription near SW corner of building	ESE			35
0193	8	09-07-14	Formal inscription (oblique natural light)				35
0194	9	09-07-14	Detail of formal inscription (oblique natural light)				35
0195	10	09-07-14	Detail of formal inscription (oblique natural light)		-		35


















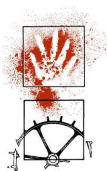
7.4 Photographic Thumbnail Compendium



		
CUST 0001	CUST 0002	CUST 0003
		
CUST 0004	CUST 0005	CUST 0006
		
CUST 0007	CUST 0008	CUST 0009
		
CUST 0010	CUST 0011	CUST 0012
		
CUST 0013	CUST 0014	CUST 0015


















		
CUST 0016	CUST 0017	CUST 0018
		
CUST 0019	CUST 0020	CUST 0021
		
CUST 0022	CUST 0023	CUST 0024
		
CUST 0025	CUST 0026	CUST 0027
		
CUST 0028	CUST 0029	CUST 0030



		
CUST 0031	CUST 0032	CUST 0033
		
CUST 0034	CUST 0035	CUST 0036
		
CUST 0037	CUST 0038	CUST 0039
		
CUST 0040	CUST 0041	CUST 0042
		
CUST 0043	CUST 0044	CUST 0045




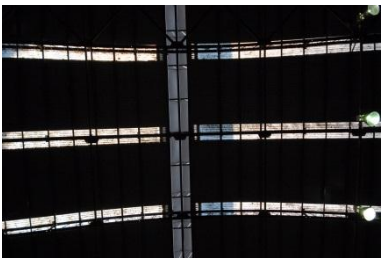


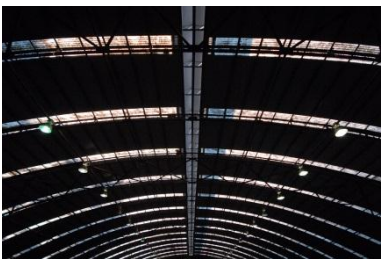
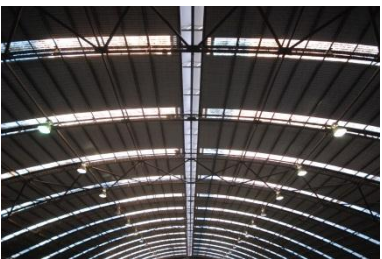









		
CUST 0046	CUST 0047	CUST 0048
		
CUST 0049	CUST 0050	CUST 0051
		
CUST 0052	CUST 0053	CUST 0054
		
CUST 0055	CUST 0056	CUST 0057
		
CUST 0058	CUST 0059	CUST 0060

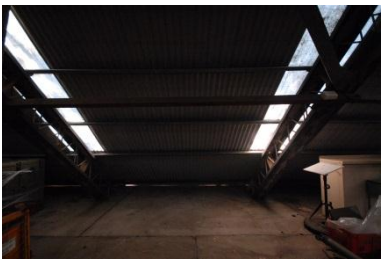
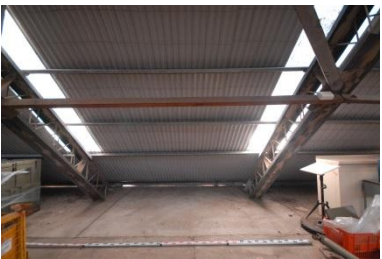





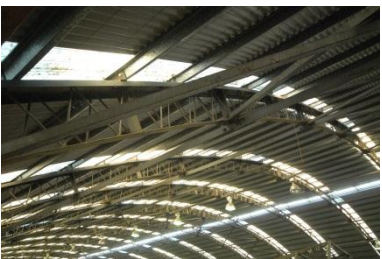









		
CUST 0061	CUST 0062	CUST 0063
		
CUST 0064	CUST 0065	CUST 0066
		
CUST 0067	CUST 0068	CUST 0069
		
CUST 0070	CUST 0071	CUST 0072
		
CUST 0073	CUST 0074	CUST 0075

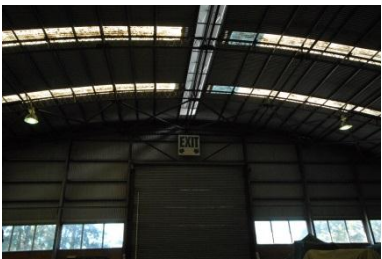
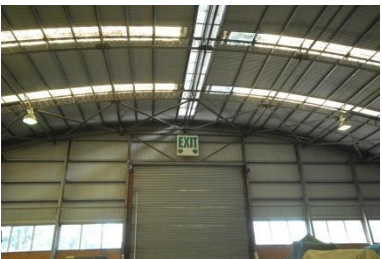

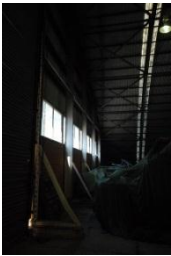








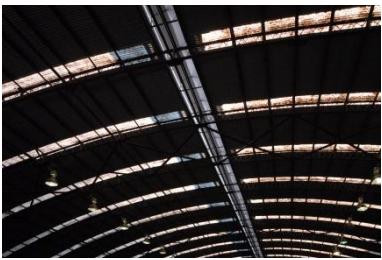
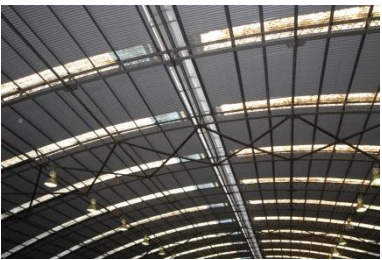



		
CUST 0076	CUST 0077	CUST 0078
		
CUST 0079	CUST 0080	CUST 0081
		
CUST 0082	CUST 0083	CUST 0084
		
CUST 0085	CUST 0086	CUST 0087
		
CUST 0088	CUST 0089	CUST 0090







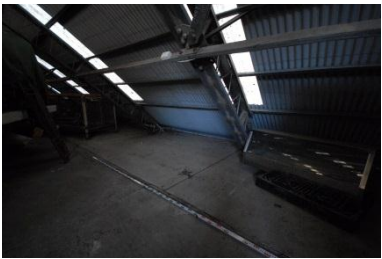










		
CUST 0091	CUST 0092	CUST 0093
		
CUST 0094	CUST 0095	CUST 0096
		
CUST 0097	CUST 0098	CUST 0099
		
CUST 0100	CUST 0101	CUST 0102
		
CUST 0103	CUST 0104	CUST 0105



		
CUST 0106	CUST 0107	CUST 0108
		
CUST 0109	CUST 0110	CUST 0111
		
CUST 0112	CUST 0113	CUST 0114
		
CUST 0115	CUST 0116	CUST 0117
		
CUST 0118	CUST 0119	CUST 0120

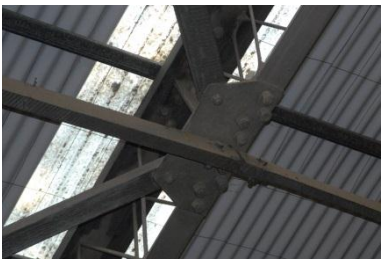

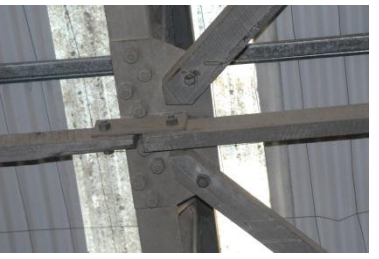






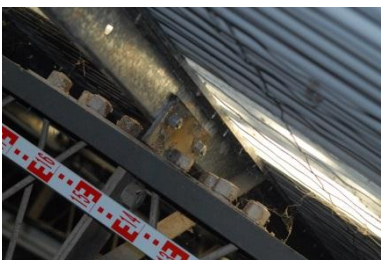
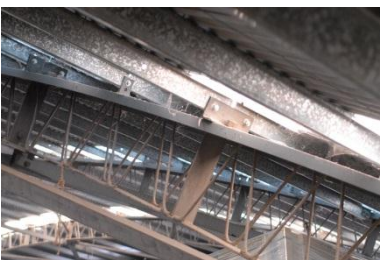

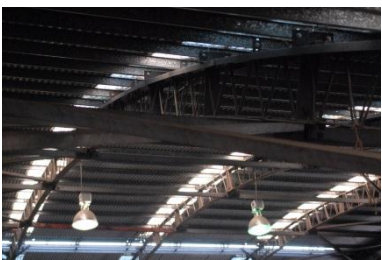

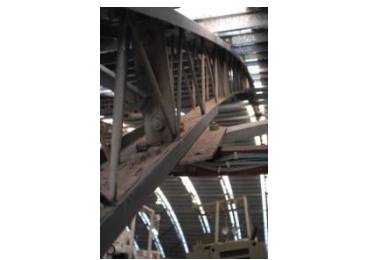


		
CUST 0121	CUST 0122	CUST 0123
		
CUST 0124	CUST 0125	CUST 0126
		
CUST 0127	CUST 0128	CUST 0129
		
CUST 0130	CUST 0131	CUST 0132
		
CUST 0133	CUST 0134	CUST 0135


















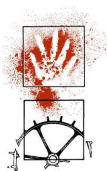
CUST 0136	CUST 0137	CUST 0138
CUST 0139	CUST 0140	CUST 0141
CUST 0142	CUST 0143	CUST 0144
CUST 0145	CUST 0146	CUST 0147
CUST 0148	CUST 0149	CUST 0150



		
CUST 0151	CUST 0152	CUST 0153
		
CUST 0154	CUST 0155	CUST 0156
		
CUST 0157	CUST 0158	CUST 0159
		
CUST 0160	CUST 0161	CUST 0162
		
CUST 0163	CUST 0164	CUST 0165

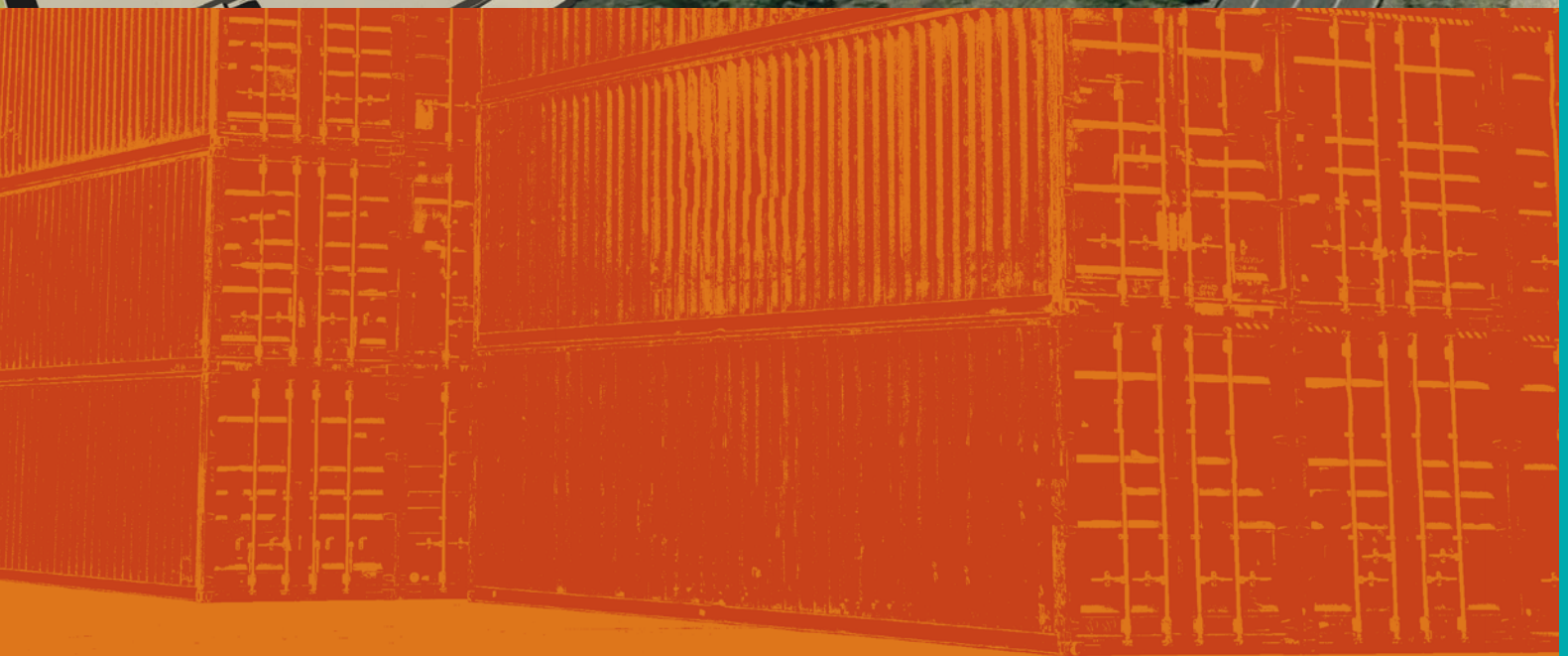


		
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CUST 0169	CUST 0170	CUST 0171
		
CUST 0172	CUST 0173	CUST 0174
		
CUST 0175	CUST 0176	CUST 0177
		
CUST 0178	CUST 0179	CUST 0180



		
CUST 0181	CUST 0182	CUST 0183
		
CUST 0184	CUST 0185	

Appendix K Cultural Heritage Archival Recordings





7.5 Sample Set of Photographic Prints



Figure 7.12 General view looking NE, (image no. CUST 0003)



Figure 7.13 Looking NE at the SW corner of the building, (image no. CUST 0047)



Figure 7.14 Looking ESE at front (western end) of building, (image no. CUST 0048)



Figure 7.15 The western face of the building, looking SE, (image no. CUST 0051)



Figure 7.16 Looking SE at the NW corner of the building, (image no. CUST 0054)

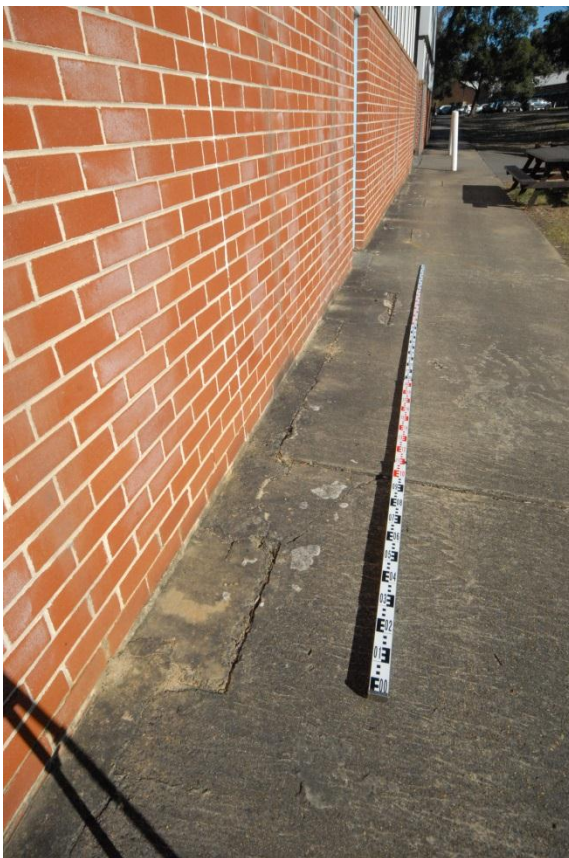


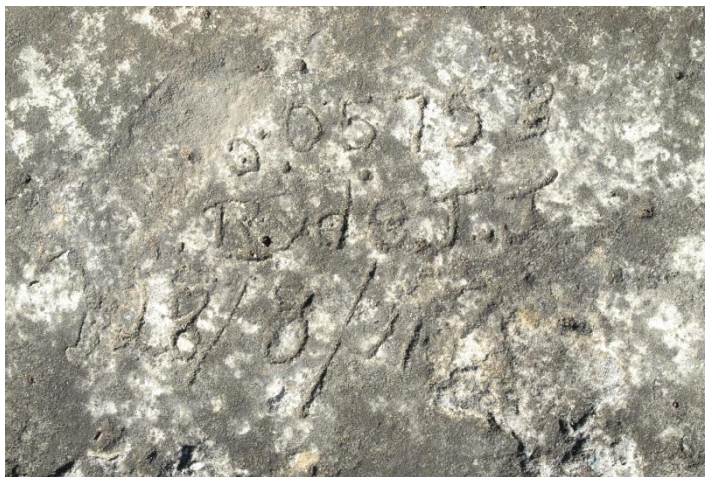
Figure 7.17 Looking SSW along western face of building, showing concrete footings for interior columns supporting the brick wall, (image no. CUST 0018)



Figure 7.18 Looking S across northern side of building, along a truss alignment, showing edge drain and original concrete footing for truss, refer figure 7.19 for detail of this footing (image no. CUST 0019)



Figure 7.19 Exterior section of an original truss concrete footing, with a by-hand inscription (it is unclear if the inscription is contemporaneous with the footing construction, or has been applied subsequently), (image no. CUST 0020)



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Figure 7.20 Photo detail of inscription (left), and interpretation (right) (image no. CUST 0023)



Figure 7.21 Looking WNW alongside-drain situated parallel to southern side of building, (image no. CUST 0058)



Figure 7.22 Looking ESE alongside-drain situated parallel to southern side of building, (image no. CUST 0060)



Figure 7.23 Looking WNW alongside-drain situated parallel to northern side of building, (image no. CUST 0027)



Figure 7.24 Looking ESE alongside-drain situated parallel to northern side of building, (image no. CUST 0015)



Figure 7.25 The NE corner of the building, looking W, (image no. CUST 0029)



Figure 7.26 The eastern end of the building, looking WNW, (image no. CUST 0033)



Figure 7.27 Looking NW across the southern drain and building edge, showing top of original truss concrete footings surrounded by a later slab, (image no. CUST 0041)



Figure 7.28 Looking NNE across southern portion of southern side of building, (image no. CUST 0043)



Figure 7.29 Looking ESE midway along Southern side of building, showing raised edge of original truss concrete footing, (image no. CUST 0066)



Figure 7.30 Detail of concrete footing showing abutting remnant block forming part of the drain wall, (image no. CUST 0067)



Figure 7.31 Context of inscription near SW corner of building, looking E, (image no. CUST 0192)



Figure 7.32 Inscription near SW corner of building, located on concrete infill between the original truss footings. The inscription is contemporaneous with the infill installation. Interpretation at right. (image no. CUST 0194)

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Figure 7.33 General view of interior, looking SE from western roller door, (image no. CUST 0074)



Figure 7.34 Interior of western infill wall, showing vertical supports, (image no. CUST 0076)



Figure 7.35 Looking WNW at western end of hut, (image no. CUST 0077)



Figure 7.36 General view of interior looking ESE from western end, (image no. CUST 0080)



Figure 7.37 View of thick concrete slab floor along central axis of hut, looking ESE, (image no. CUST 0081)



Figure 7.38 Detail of concrete floor showing central axis slabs (foreground) abutting apparently thinner (and later?) side slabs, Note also infilled trench (parallel to scale) which suggests a former internal wall present at the time of the side slab installation, looking SE. (image no. CUST 0121)



Figure 7.39 View along roof trusses, showing cross-bracing, looking SSW, (image no. CUST 0097)

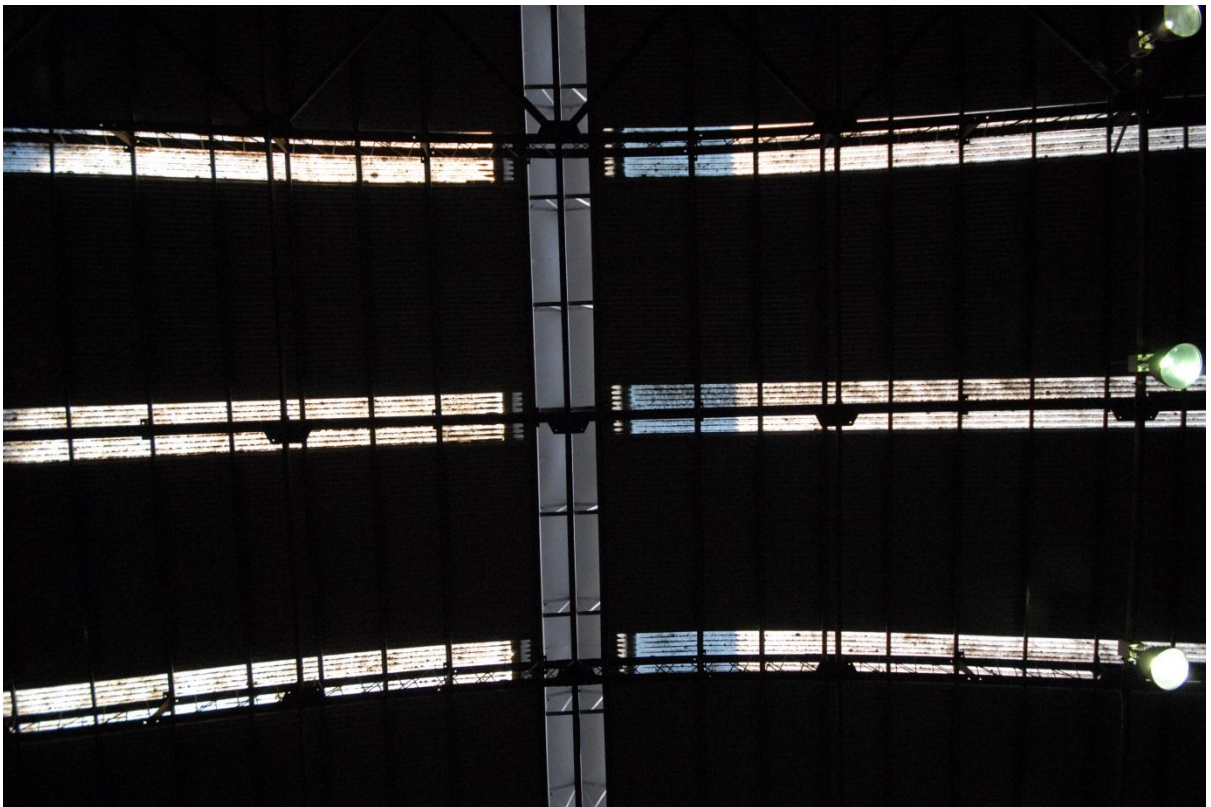


Figure 7.40 Interior view of top of roof, looking directly up at ridge ventilator, (image no. CUST 0079)



Figure 7.41 View looking along truss alignment at northern half of building, (image no. CUST 0089)



Figure 7.42 View of cross-braced trusses, and roof structure at eastern end of building (image no. CUST 0111)



Figure 7.43 View looking SSW at southern half of eastern end wall and adjoining roof, (image no. CUST 0110)



Figure 7.44 Detail of truss construction, note edge reinforcing, looking S, (image no. CUST 0167)



Figure 7.45 Interior detail of highest point of truss arch, showing ridge ventilator, (image no. CUST 0140)



Figure 7.46 The junction of a truss with the concrete floor. The top of the original footing can be seen to the right of the truss. The truss is probably bolted to an angled face on the footing. Looking SE (image no. CUST 0180)



Figure 7.47 Roof light, (image no. CUST 0147)



Figure 7.48 Truss joint and fixing plate, bracing timbers on outside, (image no. CUST 0149)



Figure 7.49 Truss joint and fixing plate, bracing timbers on inside, (image no. CUST 0151)



Figure 7.50 Detail of truss low down on arch, showing edge reinforcing, (image no. CUST 0157)



Figure 7.51 Detail of roof purlins and attachment to truss, (image no. CUST 0160)



Figure 7.52 View of western roller door entrance, showing (now infilled) cut trench across original central access concrete floor, looking SW, (image no. CUST 0184)



Figure 7.53 Detail of lower section of truss, showing recent reinforcing of edges with the welded attachment of 'L' profile steel, (image no. CUST 0170)



Figure 7.54 Detail of lower section of reinforced truss with connection plate, (image no. CUST 0172)



8. B99 BUILDING

8.1 Description

Location

The B99 building is situated parallel to and 35 m east of Moorebank Avenue, 100 m south of its intersection with Anzac Road, Moorebank.

Map grid references (MGA datum):

NE corner	308114.6242021
NW corner	308084.6240024
SE corner	308100.6241906
SW corner	308067.6241900

Building 99 is a large saw-toothed roofed workshop or warehouse building (2-3 storeys in height) with dimensions 114.3 x 30.48 m, (375 x 100 feet) and a maximum height of 7.1 m (c.23 feet). There are 15 roof ridges, each with a vertically mounted clerestory window facing south. Box gutters situated at the base of the windows are situated at a height of 4.2 m. The construction date of the building is not known however it is presumed to have been during World War Two, a period of significant expansion at Moorebank. The building must predate 1943 which is the earliest date of a series of photographs held by the Australian War Memorial. A number of these are presented here for context, and with contemporary equivalent views (Figures 8.2-12).

The structure consists mostly of steel frame, with some minor wooden wall frame elements. The walls and roof are now clad in Colorbond steel sheeting. Originally the walls were clad in flat sheet. The re-cladding was undertaken during the mid-1990's redevelopment of the SME.

In the 1940s this building functioned as the main workshop of the Land Headquarters Electrical and Mechanical Engineers School, including the School's Armoured Fighting Vehicle Wing. The building is currently used as a storehouse, garage compound and transport workshop.

Store houses and workshops were erected during WWII along the eastern seaboard, but were concentrated in the southeast (GB&A 2004:74). Similar structures include Hangar 76 at Amberley RAAF Base, (Queensland), which has a welded steel frame supporting a saw tooth roof characteristic of late 1930s and early 1940s utilitarian and workshop structures erected by the Commonwealth. Buildings 46-48 at RAAF Base Fairbairn, ACT are also saw tooth roofed hangars with steel framed central spaces and roof trusses in the prevailing Inter War Art Deco and Functionalist style employed by the Commonwealth.

The B99 building is now the only remaining *in situ* structure built on the Project site during the World War Two period.

The Transport Compound Workshop contributes to the historical significance of The Moorebank Cultural Landscape, however it is not of itself historically important. The workshop structure is not an unusual, rare or endangered building type. Similar structures exist across Australia and similar buildings are listed on the CHL at Amberley RAAF Base Group, Archerfield Airport Heritage Precinct, RAAF Base Fairbairn Group, RAAF Base Richmond and the former Salisbury Explosives Factory. Nevertheless, B99 is locally rare, within the context of the Moorebank Cultural Landscape.



Scale 1:8157 200m

Base image: 2008 from www.six.nsw.gov.au



Scale 1:8157 200m

Base image: 1945 aerial photograph from
www.six.nsw.gov.au

Figure 8.1 Comparison of 1945 and 2008 aerial photography of the B99 building (longest building lower right quadrant) and its context. Note that nearly all buildings to the N, W and S of B99 have now been demolished, including the saw-toothed warehouse on the opposite side of Moorebank Avenue.



AUSTRALIAN WAR MEMORIAL

082356

Figure 8.2 Looking SE at the western wall of B99 from near its NW end in 1944. Note presence of overlapping sliding doors. (Australian War Memorial 082356, original caption: Moorebank, NSW. 1944-10-25. Tanks and armoured cars on the apron outside the main workshop at the armoured fighting vehicle wing, land headquarters electrical and mechanical engineers school).



Figure 8.3 Contemporary photo replicating the view and angle of the 1944 photo above (image no. B99 0331)



Figure 8.4 Looking SE at the western wall of B99 from near its NW end in 1944. Note presence of overlapping sliding doors. (Australian War Memorial 082356, original caption: Moorebank, NSW. 1944-10-25. Tanks and armoured cars on the apron outside the main workshop at the armoured fighting vehicle wing, land headquarters electrical and mechanical engineers school).



Figure 8.5 Contemporary photo taken from a position close to the 1944 photo, to provide an equivalent comparative view (and avoid modern obstacles). Note the loss of some door apertures and the replacement of sliding with roller doors. Also note the replacement of flat iron with corrugated cladding, and the addition of exterior side lighting (image no. B99 0315).



AUSTRALIAN WAR MEMORIAL

082352

Figure 8.6 Looking SW towards the NE corner of B99 in 1944, from a former road entrance off Moorebank Avenue. Note doorways on N building face, indicating interior offices or rooms at this end of the building (Australian War Memorial 082352, original caption: Moorebank, NSW. 1944-10-25. The entrance to B group, land headquarters electrical and mechanical engineers school).



Figure 8.7 Contemporary photo replicating the view and angle of the 1944 photo above (image no. B99 0329).



AUSTRALIAN WAR MEMORIAL

082355

Figure 8.8 1944 interior photo. Note two tone colour scheme and sliding door configuration.
(Australian War Memorial 082355, original caption: Moorebank, NSW. 1944-10-25. The radial engine section, armoured fighting vehicle wing, land headquarters electrical and mechanical engineers school. Identified personnel are:- Warrant Officer II, F.D. Scott (1); WO I, E.A. Craig (2); WO II, D.K. Macquarie (3); Sergeant H.F. Gibson (4); Staff Sergeant D. Whymark (5); WO II, C. Tompkins (6); Staff Sergeant H.S. Cooke (7).



Figure 8.9 Contemporary photo showing remnant of colour scheme preserved on an original wall frame column, which appears to be the same as that shown in the above 1944 photo (image no. B99 0204)

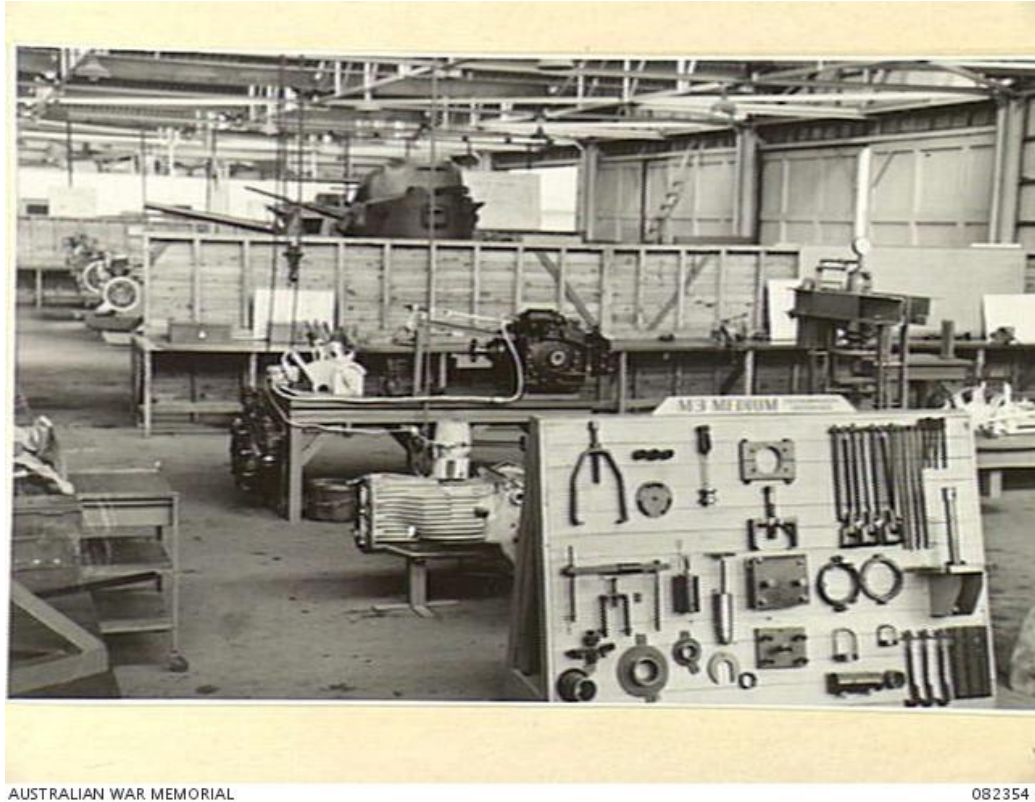


Figure 8.10 Interior view looking SNE at the western wall of B99 in 1944. Note presence of overlapping sliding doors and unchanged roof structure. (Australian War Memorial 082354, original caption: Moorebank, NSW. 1944-10-25. The transmission section, armoured fighting vehicle wing, land headquarters electrical and mechanical engineer school).



Figure 8.11 Contemporary photo replicating the view and angle of the 1944 photo above. Note the removal of former door apertures with the insertion of modern wall framing (image no. B99 0314)



AUSTRALIAN WAR MEMORIAL

086828

Figure 8.12 Interior 1944 view looking either N or S from the mid long axis of the building. Note original lighting and unchanged roof structure (Australian War Memorial 086828, original caption: Moorebank, NSW. 1945-02-22. Personnel at 8 advanced workshop, corps of Australian electrical and mechanical engineers, refitting valves during the engine reconditioning process. Identified personnel are:- Sergeant H T Lang, (1); Staff Sergeant P W Drover, (2); Corporal M Y Benbow, (3); Warrant Officer 1 C M Davies, (4); Craftsman J Watson, (5)).

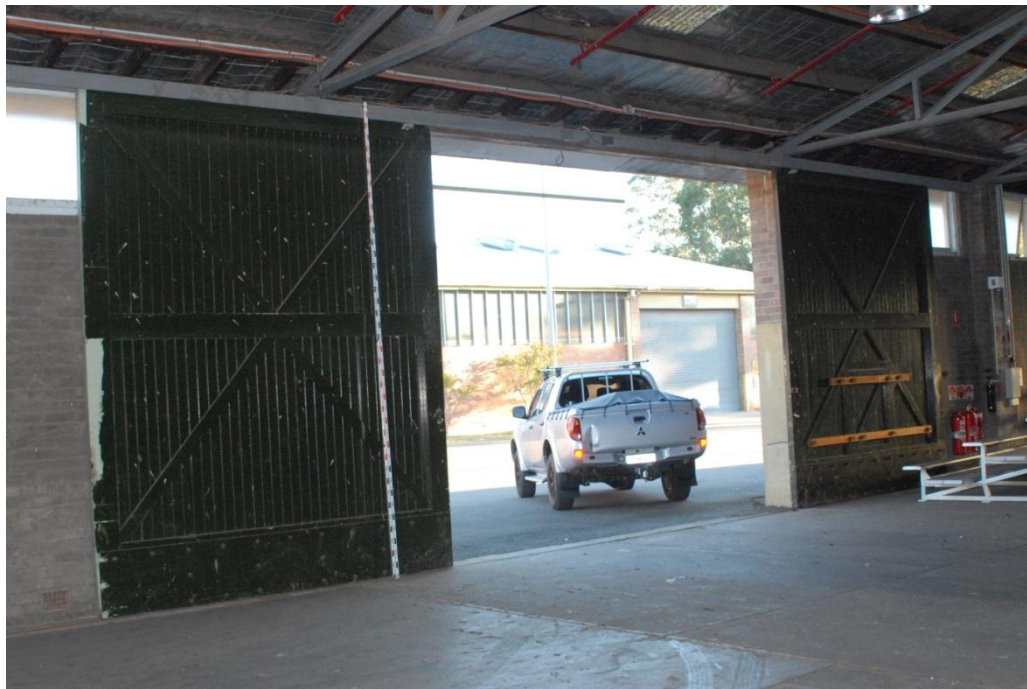


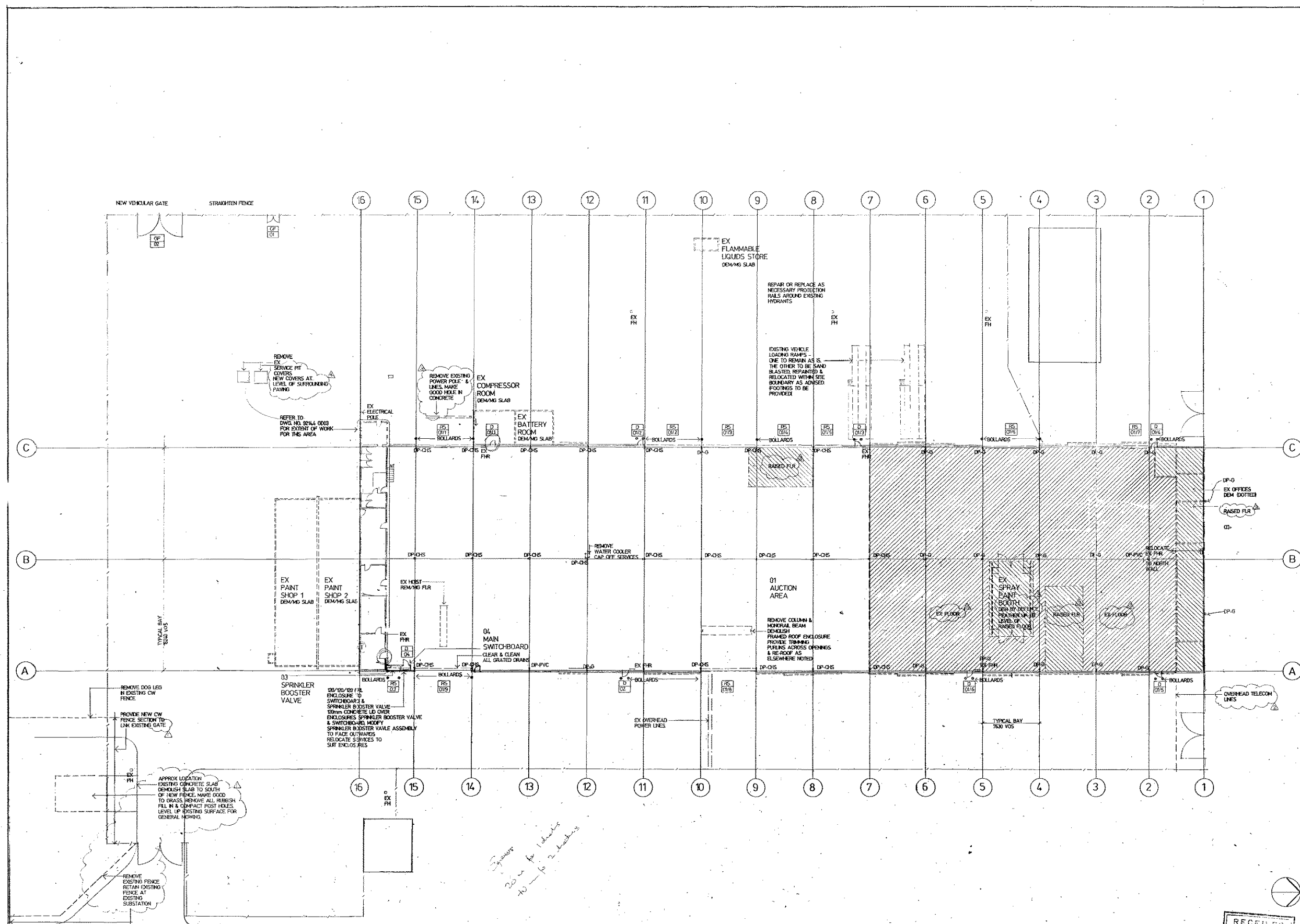
Figure 8.13 Example of wooden sliding doors of similar type to those originally fitted to the B99 building, inspected on S side of warehouse B159 in Holsworthy Barracks, one of two storehouses just off Moorebank Ave, near Pass Office.



Figure 8.14 Example of wooden sliding doors of similar type to those originally fitted to the B99 building, inspected on S side of warehouse B159 in Holsworthy Barracks, one of two storehouses just off Moorebank Ave, near Pass Office.



Figure 8.15 Detail of sliding door track inspected on S side of warehouse B159 in Holsworthy Barracks, one of two storehouses just off Moorebank Ave, near Pass Office.



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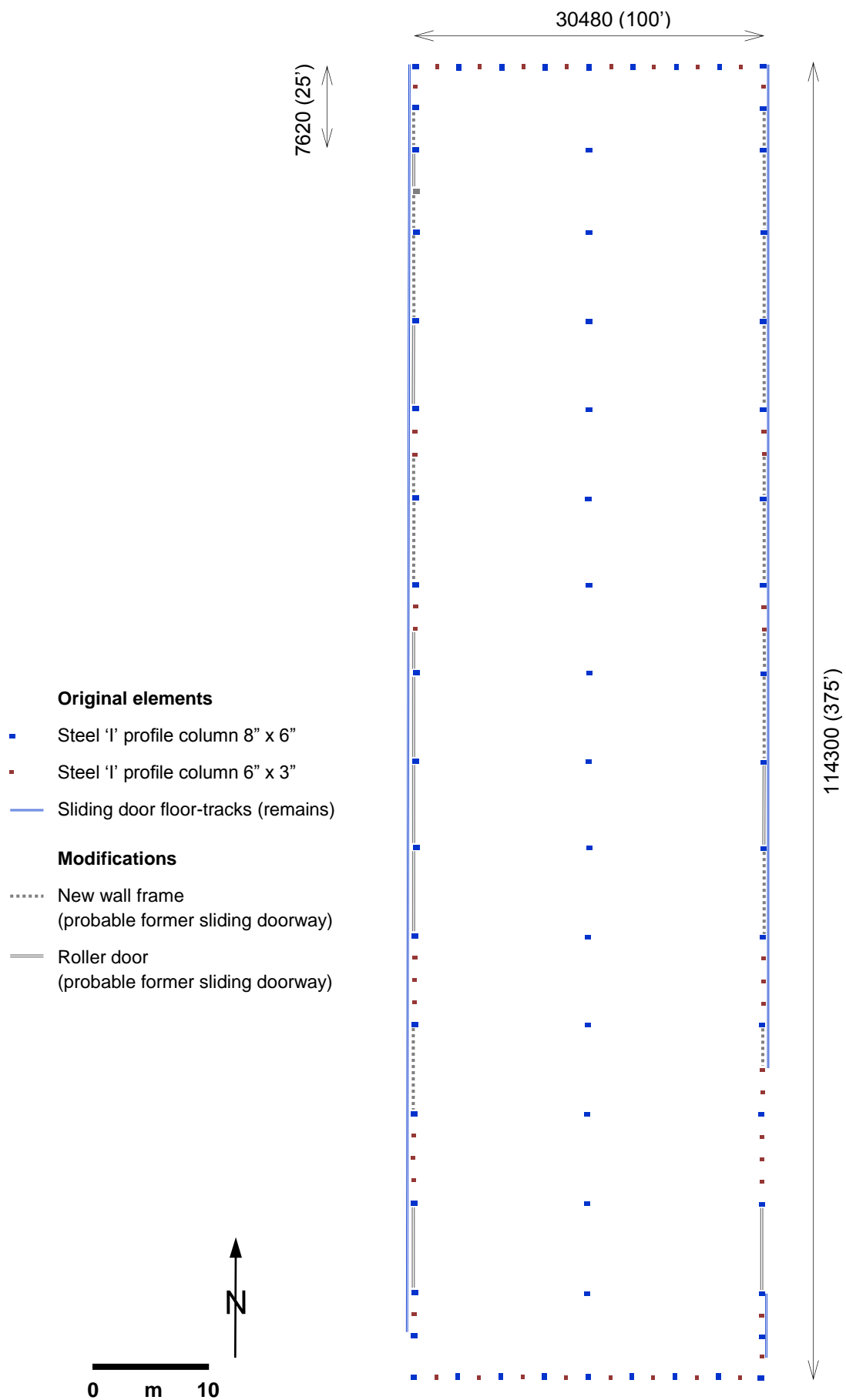


Figure 8.17 Plan of B99 walls and vertical elements

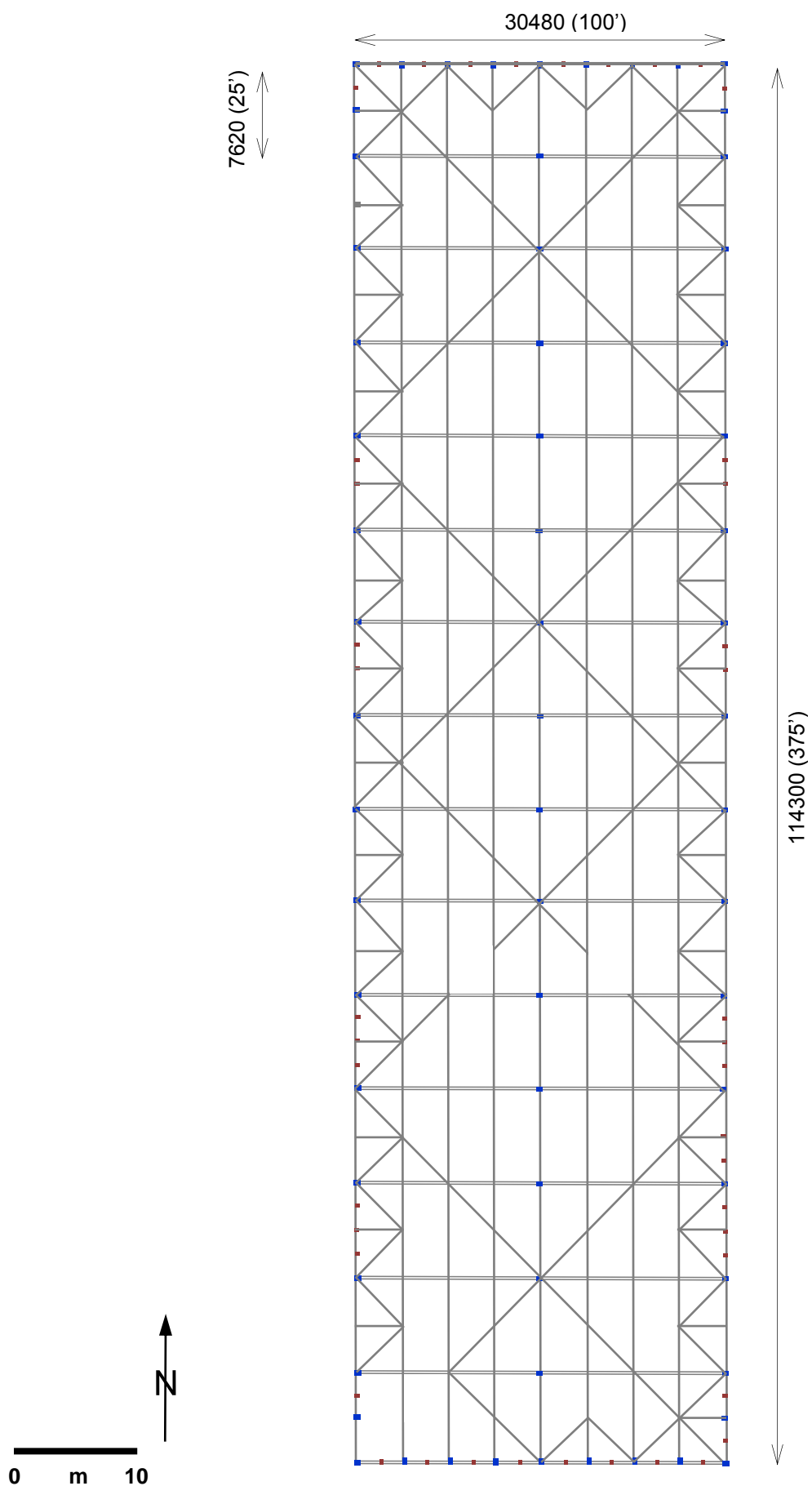
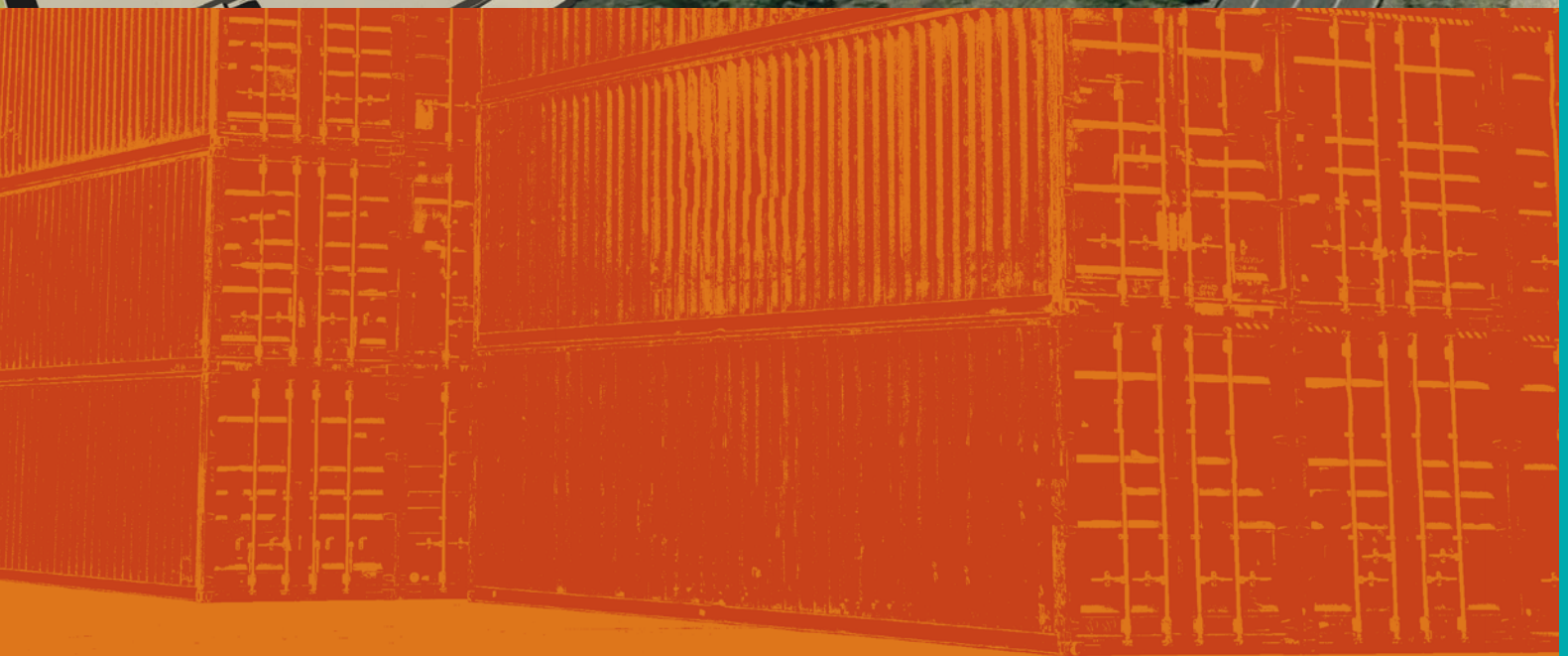


Figure 8.18 Plan of B99 roof structural elements

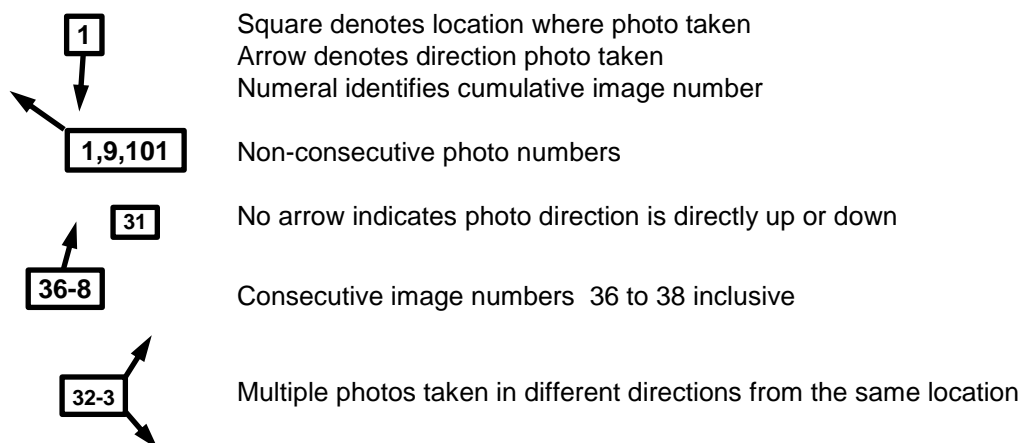
Appendix K Cultural Heritage Archival Recordings





8.2 Plans of Photograph Locations

KEY



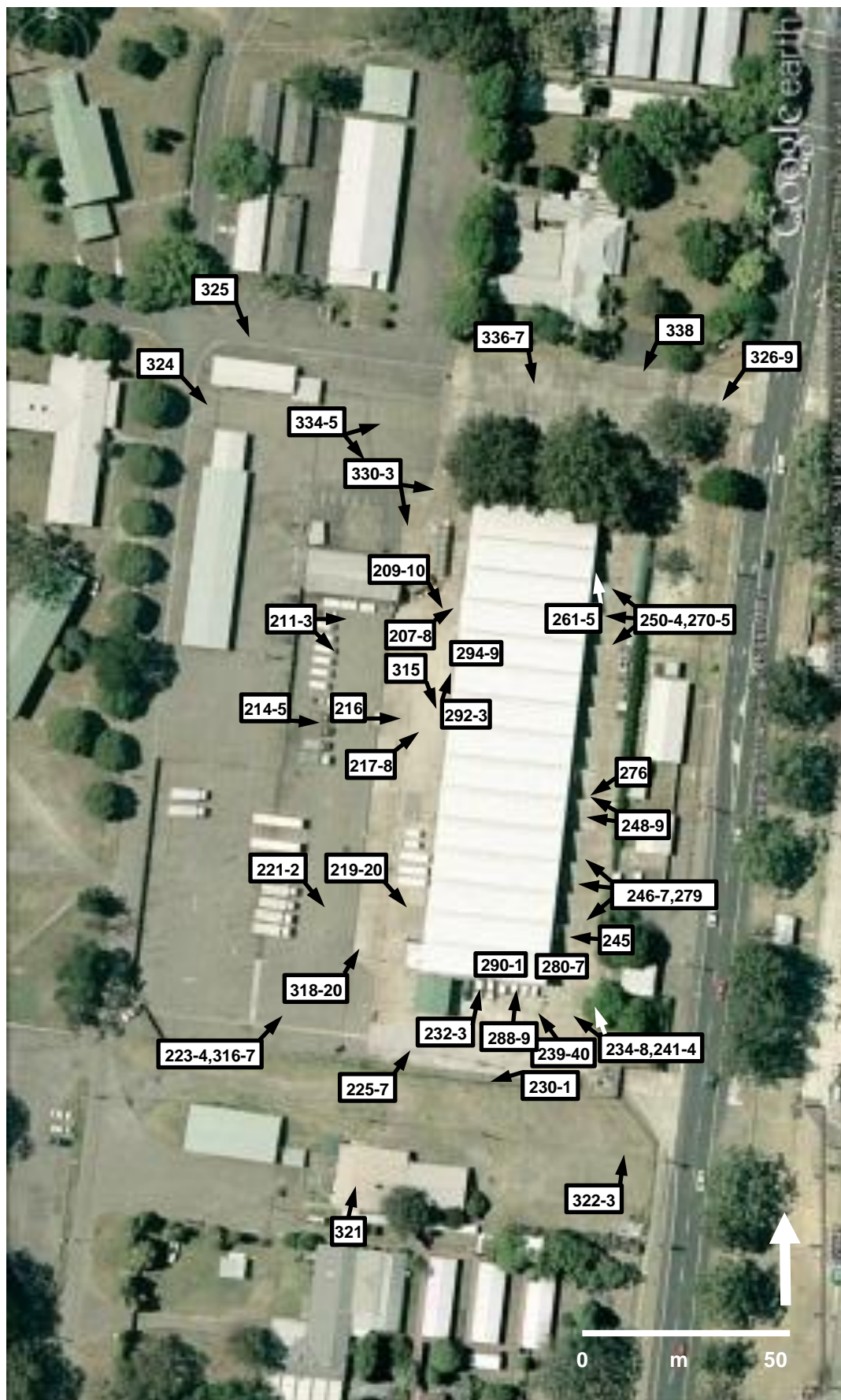
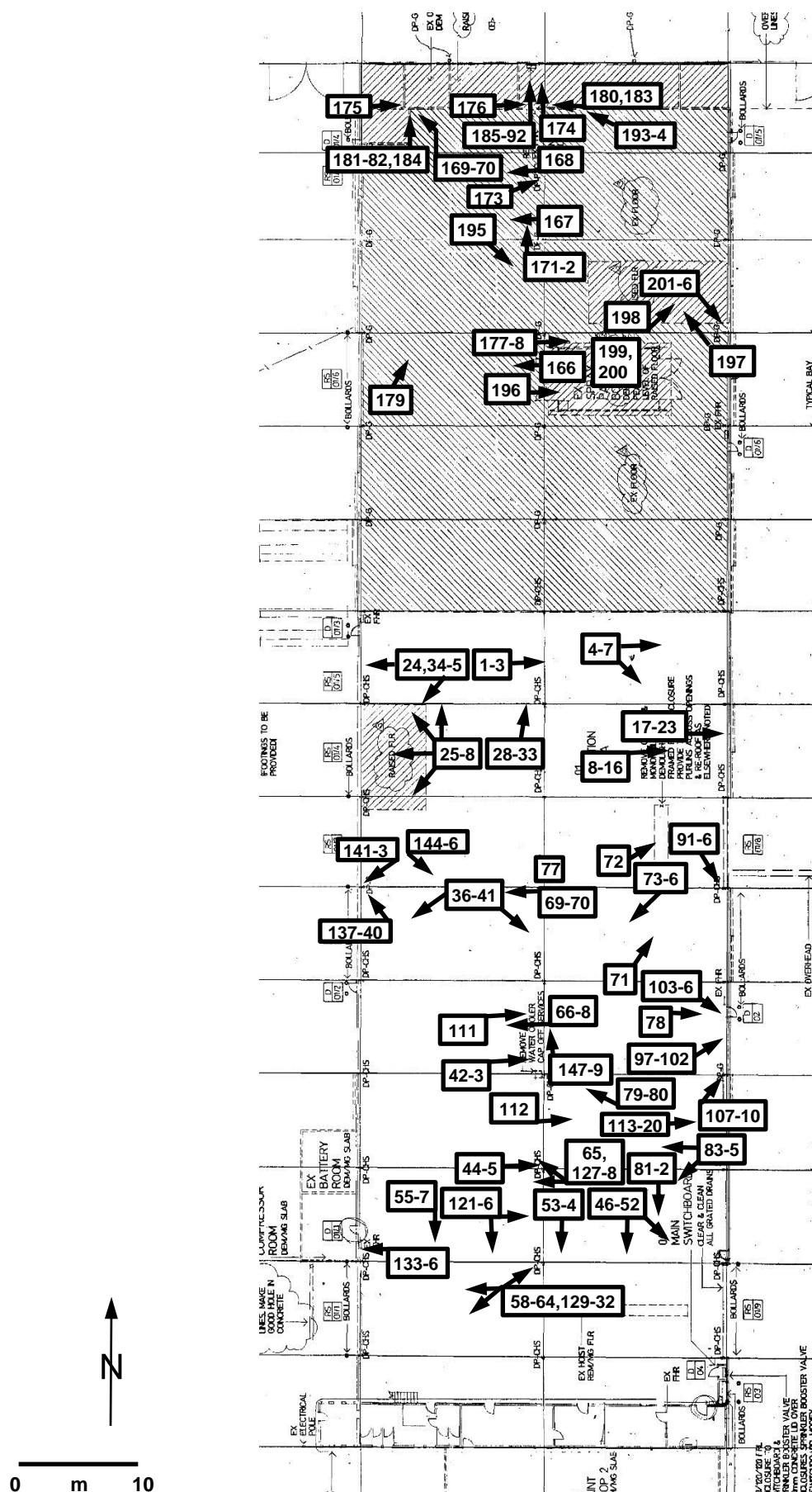


Figure 8.19 Aerial photo of B99 area, showing location of exterior photo locations. All numbers have a 'B99' prefix. (Base image from Google Earth Pro 2014, image date: 1/1/2009).



School of Military Engineering, Steele Barracks, Moorebank NSW - Cultural Heritage Archival Recordings
Navin Officer Heritage Consultants October 2014

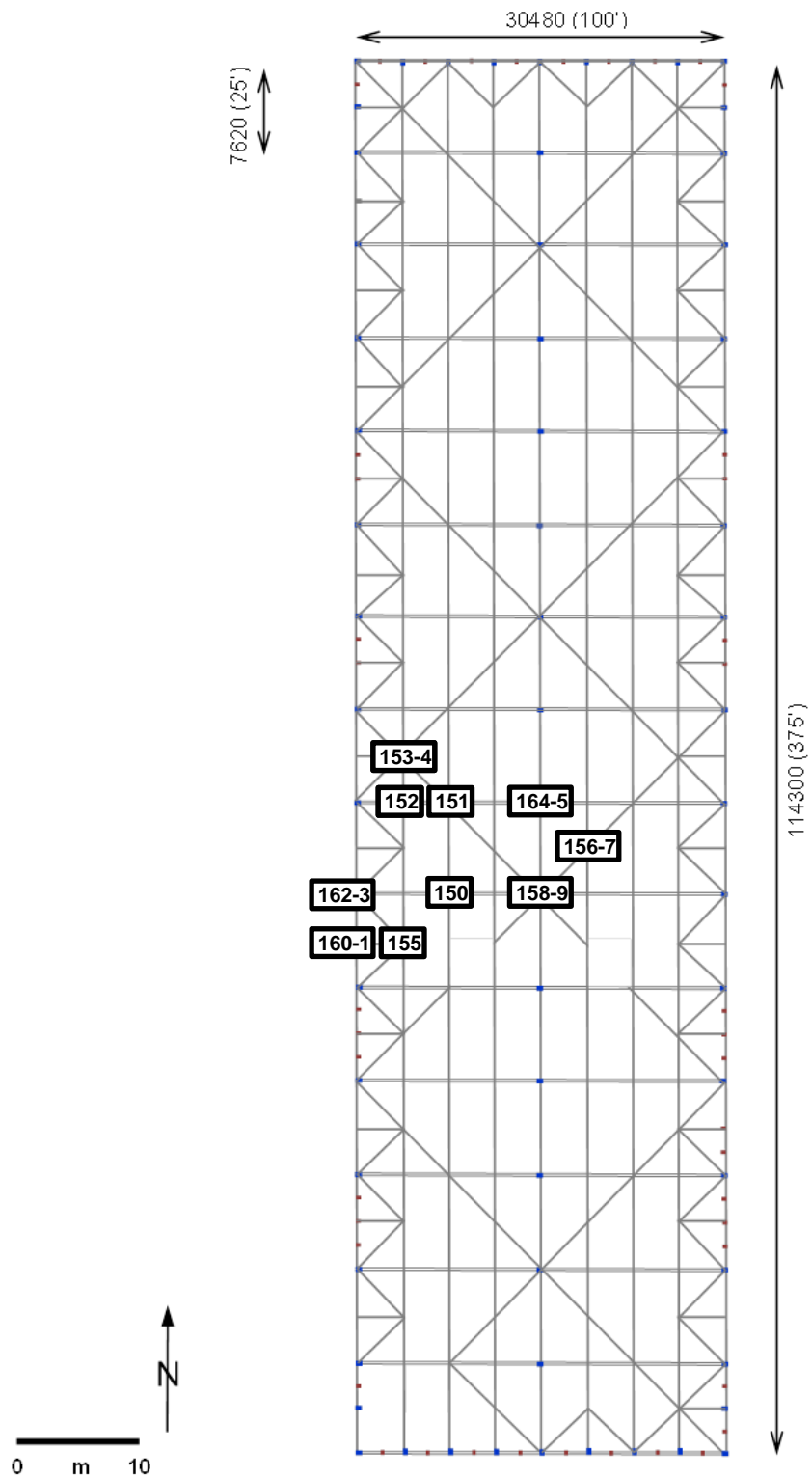


Figure 8.21 Plan showing location of some interior B99 Building photo locations documenting roof components. All numbers have a 'B99' prefix.



9.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
			Interior images				
0001	1	08-07-14	View towards E wall of building	E			10
0002	2	08-07-14	View towards E wall of building, looking upwards	E			10
0003	3	08-07-14	View towards E wall of building	E			15
0004	4	08-07-14	Closer view of E wall showing new wall framework (left) and original framing (right)	E			20
0005	5	08-07-14	As for B99 0004 but looking slightly upwards at roof	E			20
0006	6	08-07-14	As above but looking ESE and upwards	ESE			20
0007	7	08-07-14	Looking ESE (as for B99 0007) but wider angle	ESE			10
0008	8	08-07-14	Wider view of E wall and roof elements	E			10
0009	9	08-07-14	Closer view of E wall	E			20
0010	10	08-07-14	Wider view of E wall, but looking slightly upwards to include roof	E			10
0011	11	08-07-14	Closer view of one wall unit on E wall (whole unit)	E			35
0012	12	08-07-14	Top right section of wall unit	E			35
0013	13	08-07-14	Top right section of wall unit	E	+		35
0014	14	08-07-14	Bottom right section of wall unit	E			35
0015	15	08-07-14	Top left section of wall unit	E			35
0016	16	08-07-14	Bottom left section of wall unit	E			35
0017	17	08-07-14	Lower section of old wall framing and footing (bottom right of wall frame)	E			35
0018	17b	08-07-14	Upper section of old wall framing and footing (bottom right of wall frame) note old electrical fittings	E			35
0019	18	08-07-14	Detail of old electrical fittings evident in B99 0018	E			35
0020	19	08-07-14	Detail of old electrical fittings evident in B99 0018	E		✓	35
0021	20	08-07-14	Oblique view across timber rail in old wall framework	NE			
0022	21	08-07-14	Oblique view across timber rail in old wall framework	NE		✓	
0023	22	08-07-14	Detail of concrete footing, oblique view, looking NE	NE			
0024	23	08-07-14	Looking W at wall section with roller door and old wall framing	W			
0025	24	08-07-14	Looking W at next wall section S of wall in B99 0024, with double roller door	W			
0026	25	08-07-14	View angled up, of W end of clerestory window framing to left (S) of B99 0025	SW			
0027	26	08-07-14	View angled up, of W end of roof to right (N) of B99 0026	NW			

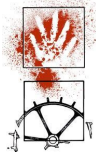


Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0028	27	08-07-14	View angled up, of roof elements to right (N) of B99 0027	N			
0029	28	08-07-14	Looking N along central pillars	N			28
0030	29	08-07-14	Looking N along central pillars	N			14
0031	30	08-07-14	As for B99 0029 but looking up showing roof elements	N			14
0032	31	08-07-14	As for B99 0029 but looking down showing bitumen floor	N			14
0033	32	08-07-14	As for B99 0029 but looking down showing bitumen floor				20
0034	33	08-07-14	View of roller door entrance with raised floor, on western wall	SW	+		15
0035	34	08-07-14	View of roller door entrance with raised floor, on western wall	SW			15
0036	35	08-07-14	General (wide) view of E wall	E			10
0037	36	08-07-14	General (wide) view of E wall, tilted up to show roof elements	E			10
0038	37	08-07-14	General (wide) view of E wall, tilted up to show roof elements	E			20
0039	38	08-07-14	General (wide) view of clerestory window framing	SE	-		10
0040	39	08-07-14	General (wide) view of clerestory window framing	SE			10
0041	40	08-07-14	General (wide) view of W end of clerestory window framing	WSW			10
0042	41	08-07-14	General view of E wall showing original timber framed sections	E			10
0043	42	08-07-14	General view of E wall showing original timber framed sections	E			20
0044	43	08-07-14	General view of E wall and SE corner of building (at left)	E			10
0045	44	08-07-14	General view of E wall near SE corner of building	E			20
0046	45	08-07-14	General view, looking SE into SE corner of building	SE			10
0047	46	08-07-14	General view, looking SE into SE corner of building	SE			20
0048	47	08-07-14	General view at S wall and offices, looking S	S	-		10
0049	48	08-07-14	General view at S wall and offices, looking S	S			10
0050	49	08-07-14	Looking upwards and S, showing clerestory windows and roof elements	S			10
0051	50	08-07-14	As for B99 0048, with scale	S	-		20
	51	08-07-14	[notation taken in error – no photo taken]				
0052	52	08-07-14	As for B99 0048, with scale	S			20
0053	53	08-07-14	Looking S towards S wall and offices, taken to right of B99 0051,	S			20
0054	54	08-07-14	Looking S towards S wall and offices, taken to right of B99 0051, taken slightly more upward	S			20
0055	55	08-07-14	Looking S towards S wall and offices, SW corner of building at right of picture	S			20
0056	56	08-07-14	Looking S towards S wall and offices, SW corner of building at right of picture	S	-		20
0057	57	08-07-14	Looking S towards S wall and offices, SW corner of building at right of picture	S			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0058	58	08-07-14	General (wide) view towards SW corner of building, looking SW	SW			10
0059	59	08-07-14	Looking SW at recent two story addition to offices in SW corner of building	SW			20
0060	60	08-07-14	General view towards SW corner of building, looking WSW	WSW	-		20
0061	61	08-07-14	General view towards SW corner of building, looking WSW	WSW			20
0062	62	08-07-14	General view towards SW corner of building, looking WSW	WSW			10
0063	63	08-07-14	General view towards SW corner of building, looking WSW, angled up to show roof	WSW			10
0064	64	08-07-14	View of W wall unit including roller door at SW cnr of building, looking W	W			20
0065	65	08-07-14	View of W wall unit just to the right (N) of roller door in B99 0064	W			20
0066	66	08-07-14	General view looking WSW back towards roller door next to SW cnr of building	WSW			16
0067	67	08-07-14	General view looking WSW back towards roller door next to SW cnr of building, angled up to include roof elements	WSW			16
0068	68	08-07-14	Looking W at W wall at position B99 0066	W			20
0069	69	08-07-14	General view of W wall roller door section, just to right (N) of B99 0066	W			20
0070	70	08-07-14	General view of W wall looking NW at section with 4 roller doors	NW			20
0071	71	08-07-14	View of E wall, looking NE, at wall opposite those in B99 0070, showing some former (sliding door) gaps now filled in with modern wall framing	NE			16
0072	72	08-07-14	View of oldest looking roller door, looking NE (also evident in B99 0071)	NE			16
0073	73	08-07-14	Detail of floor looking SW	SW			12
0074	74	08-07-14	Angled up view of roof and clerestory window from locn B99 0073	SW	-		12
0075	75	08-07-14	Angled up view of roof and clerestory window from locn B99 0073	SW	--		12
0076	76	08-07-14	Angled up view of roof and clerestory window from locn B99 0073	SW			12
0077	77	08-07-14	Looking upward showing detail view of top of central column, showing roof beam attachments				10
0078	78	08-07-14	Looking upward showing detail view of central intersection of diagonal interlacing beams adjacent to wall				10
0079	79	08-07-14	Looking upward showing detail of roof structure at base of clerestory	W			10
0080	80	08-07-14	Looking upward showing detail of roof structure at base of clerestory	W	-		10
0081	81	08-07-14	Looking S at E end of clerestory window framing, near SE corner of building	S	-		12
0082	82	08-07-14	Looking S at E end of clerestory window framing, near SE corner of building	S			12
0083	83	08-07-14	Oblique view looking up at clerestory window	SW			11
0084	83b	08-07-14	Oblique view looking up at clerestory window	SW	-		11
0085	84	08-07-14	Oblique view looking up at clerestory window	W			11
0086	85	08-07-14	Detail of northern side of oldest roller door, showing adjacent original wooden wall framing	E			10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0087	86	08-07-14	Detail of northern side of oldest roller door, showing adjacent original wooden wall framing	E		f	10
0088	87	08-07-14	Detail of top left corner of roller door	E			35
0089	88	08-07-14	Close-up of top left corner of roller door and mechanism				85
0090	89	08-07-14	Close-up of top left corner of roller door and mechanism			f	85
0091	90	08-07-14	View of southern side of roller door, showing adjacent modern wall framing				12
0092	91	08-07-14	View of southern side of roller door, showing adjacent modern wall framing			f	12
0093	92	08-07-14	Detail of top right corner of roller door, showing mechanism				65
0094	93	08-07-14	Detail of top right corner of roller door, showing mechanism			f	65
0095	94	08-07-14	Looking upwards, detail of mechanism, looking SE				65
0096	95	08-07-14	Looking upwards, detail of mechanism, looking SE			f	65
0097	96	08-07-14	Oblique view detail of concrete footings on original east wall framing, looking NE				28
0098	97	08-07-14	Oblique view detail of original wooden framing, looking W from B99 0097 locn				35
0099	98	08-07-14	Close up detail of wood and steel framing, (evident in B99 0098)	NE			35
0100	99	08-07-14	Close up detail of wood and steel framing, (evident in B99 0098)	SE			35
0101	100	08-07-14	Close up detail of wood and steel framing, (evident in B99 0098)	SE		f	35
0102	101	08-07-14	Detail of wall framing near base of wall and bottom rail and 'I' column	NE			40
0103	102	08-07-14	Detail of broken 'I' column footing, showing two interior colour phases – modern blue overlies older (original metal primer?) dark red-brown colour				92
0104	103	08-07-14	Same locn as BB9 0103, looking upwards at roof beams showing fastening with upright				92
0105	104	08-07-14	Same locn as BB9 0103, looking upwards at join between wall frame and horizontal beam and upper portion of wall panel				86
0106	104b	08-07-14	Same locn as BB9 0103, looking upwards showing wider view of middle and upper sections of wall unit				28
0107	105	08-07-14	Detail view of makers mark on 'I' column (A.I.S. Kembla 8"x6"), and early electricity socket				28
0108	106	08-07-14	General view, looking up at top of 'I' column showing fastenings with wall frame and roof beams	SE			28
0109	107	08-07-14	Detail of top of 'I' column showing fastenings with wall frame and roof beams	SE			62
0110	108	08-07-14	Detail of top of 'I' column showing fastenings with wall frame and roof beams	SE		f	62
0111	109	08-07-14	General view of E wall showing original framing in full wall unit	E			34
0112	110	08-07-14	General view of E wall showing wall unit with S half with original framing (note possible former window aperture evidenced by framing configuration) and N half with modern framing	E			35
0113	111	08-07-14	Detail of possible former window aperture, evident in BB99 0112	E			28
0114	112	08-07-14	Detail of possible former window aperture evident in BB99 0112	E		f	28



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0115	113	08-07-14	Detail of by-hand writing in paint on (S side) steel wall framing around possible former window	SE			50
0116	114	08-07-14	Detail of by-hand writing in paint on (S side) steel wall framing around possible former window	SE		f	50
0117	115	08-07-14	Detail of by-hand writing in paint on (N side) steel wall framing around possible former window	NE			50
0118	116	08-07-14	Detail of by-hand writing in paint on (N side) steel wall framing around possible former window	NE		f	50
0119	117	08-07-14	Oblique view across 'I' columns along E wall, giving context of column with maker's mark	NNE			28
0120	118	08-07-14	Detail view showing makers mark (BHP) on 'I' column	NNE			92
0121	119	08-07-14	View of E wall, wooden frame section with modern door insert	E			35
0122	120	08-07-14	View of E wall, wooden frame section with modern door insert (better framed photo)	E			35
0123	121	08-07-14	View of clerestory window panel	SE			28
0124	122	08-07-14	Detail of window panes in clerestory window, note two types of mesh reinforced glass	S			80
0125	123	08-07-14	View of truss beams supporting clerestory window panels	S	+		40
0126	124	08-07-14	View of truss beams supporting clerestory window panels	S			40
0127	125	08-07-14	From position B99 0065, looking NW at central column showing evidence of formerly having a hinged element (such as a gate) attached to it	NW	+		28
0128	126	08-07-14	From position B99 0065, looking NW at central column showing evidence (welded hinge components) of formerly having a hinged element (such as a gate) attached to it	NW			28
0129	127	08-07-14	From position B99 0058, looking NE at central 'I' column with wooden column bolted to its W side	NE			28
0130	128	08-07-14	From position B99 0058, looking NE at central 'I' column with wooden column bolted to its W side (wider view)	NE			28
0131	129	08-07-14	Looking E at central column shown in B99 0129-30, showing detail of old power socket	E			200
0132	130	08-07-14	Looking E at central column shown in B99 0129-30, showing detail of old power socket	E		f	200
0133	131	08-07-14	View of old power circuit board, mounted on W wall, looking W	W			34
0134	132	08-07-14	View of old power circuit board, mounted on W wall, looking W	W		f	34
0135	133	08-07-14	Detail of old power circuit board, mounted on W wall, looking W	W	-		65
0136	134	08-07-14	Detail of old power circuit board, mounted on W wall, looking W	W		f	65
0137	135	08-07-14	Northern edge of roller door with mechanism, W wall	NW			28
0138	136	08-07-14	Closer view of edge of roller door with mechanism	NW			28
0139	137	08-07-14	Detail of roller door mechanism	NW			45
0140	138	08-07-14	Detail of roller door mechanism	NW		f	45
0141	139	08-07-14	Detail of roller door mechanism from other side	SW			62
0142	140	08-07-14	Detail of roller door mechanism from other side	SW		f	62
0143	141	08-07-14	Looking up from roller door (same position as B99 0139), showing roof beams and window panels				28



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
			at junction of clerestory and E wall				
0144	142	08-07-14	General context view of now exposed metal electrical conduit along concrete floor seam	SE			28
0145	143	08-07-14	Detail of conduit	SE			50
0146	144	08-07-14	Detail of conduit	SE		f	50
0147	145	08-07-14	Upward view of roof showing mounted hook, presumed to have formerly been used for holding cables and/or ceiling lights. This is one of a line of remnant hooks still evident at intervals along a N-S axis	N			45
0148	146	08-07-14	Upward view of roof showing mounted hook, presumed to have formerly been used for holding cables and/or ceiling lights. This is one of a line of remnant hooks still evident at intervals along a N-S axis (closer)	N			120
0149	147	08-07-14	Upward view of roof showing mounted hook, presumed to have formerly been used for holding cables and/or ceiling lights. This is one of a line of remnant hooks still evident at intervals along a N-S axis (closer)	N		f	120
			Roof joins and features				
0150	148	08-07-14	Looking up at 4-way roof join at base of clerestory window panel, not at column location				45
0151	149	08-07-14	Looking up at 4-way roof join with diagonals				42
0152	150	08-07-14	Looking up at 4-way roof join, not at a column location, and adjacent to wall				50
0153	151	08-07-14	Looking upward at 6-way join at diagonal and wall brace intersect				32
0154	152	08-07-14	Looking upward at 6-way join at diagonal and wall brace intersect			f	32
0155	153	08-07-14	Looking upward at 5-way join at diagonal intersect				58
0156	154	08-07-14	Looking up at mid-truss, diagonal join with a later beam welded on				45
0157	155	08-07-14	Looking up at mid-truss, diagonal join with a later beam welded on			f	45
0158	156	08-07-14	Looking upward at central intersection of all 4 diagonals at top of central column				28
0159	157	08-07-14	Looking upward at central intersection of all 4 diagonals at top of central column			f	28
0160	158	08-07-14	Looking upward at join on wall of wall strut with horizontal beam on wall			f	92
0161	159	08-07-14	Looking upward at join on wall of wall strut with horizontal beam on wall				92
0162	160	08-07-14	Looking upward at wall join with diagonals intersecting				65
0163	161	08-07-14	Looking upward at wall join with diagonals intersecting			f	65
0164	162	08-07-14	Looking upward at 4-way join at top of column				135
0165	163	08-07-14	Looking upward at 4-way join at top of column			f	135
			Northern interior portion				
0166	1	09-07-14	General (wide) view, looking W at W wall with roller door	W			12



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0167	2	09-07-14	General (wide) view, looking WNW at W wall with roller door and including NW corner	WNW			12
0168	3	09-07-14	General (wide) view, looking NW towards NW corner, showing X-strut cross bracing of walls either side of the corner	NW			12
0169	4	09-07-14	Closer view looking NW at NW corner showing X-strut cross bracing of walls either side of the corner	NW	+		12
0170	5	09-07-14	Closer view looking NW at NW corner showing X-strut cross bracing of walls either side of the corner	NW			
0171	6	09-07-14	General (wide) view of N wall, showing arrangement of columns	N			10
0172	7	09-07-14	General (wide) view of N wall, showing arrangement of columns	N			28
0173	8	09-07-14	Looking NE into NE corner of building	NE			10
0174	9	09-07-14	View of N wall showing arrangement of columns and roof bracing	N			10
0175	10	09-07-14	Looking E from near NW corner showing roof structure adjacent to N wall	E			20
0176	11	09-07-14	Looking E from near NW corner showing E wall and roof adjacent N and E walls	E			12
0177	12	09-07-14	Looking E showing E wall and roof	E			10
0178	13	09-07-14	Enlarged view looking E showing E wall and roof	E			20
0179	14	09-07-14	Looking towards NE corner from near W wall	NE			10
0180	15	09-07-14	Looking W at last wall panel on W wall abutting the NW corner, showing X-pattern strut bracing (no scale)	W			28
0181	16	09-07-14	Looking N at the most western panel of N wall abutting the NW corner, showing X-pattern strut bracing (no scale)	N			28
0182	17	09-07-14	Looking upward showing detail of roof bracing configuration adjacent to NW corner (this configuration repeated in all building corners)	NNW			28
0183	18	09-07-14	Looking W at last wall panel on W wall abutting the NW corner, showing X-pattern strut bracing (with scale)	W			28
0184	19	09-07-14	Looking N at the most western panel of N wall abutting the NW corner, showing X-pattern strut bracing (with scale)	N			28
0185	20	09-07-14	Looking at mid-section of N wall showing presumed former doorway (horizontal steel wall rails have been cut to make aperture, now covered), possibly evidence of original configuration with offices at the northern end, accessible from outside of building	N			28
0186	21	09-07-14	Detail (close) view of presumed former doorway, as evident in B99 0185	N			35
0187	22	09-07-14	Detail of concrete footing at locn B99 0186	NE			35
0188	23	09-07-14	Detail of upper wall framing and roof junction, including large 'I' beam/girder	NW			68
0189	24	09-07-14	Closer detail of vertical wall frame elements joining large 'I' beam/girder	NW			200



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0190	25	09-07-14	Closer detail of smaller vertical wall frame 'I' column joining large 'I' beam/girder	NW		f	200
0191	26	09-07-14	Closer detail of larger vertical wall frame 'I' column joining large 'I' beam/girder	NW			200
0192	27	09-07-14	Closer detail of larger vertical wall frame 'I' column joining large 'I' beam/girder	NW		f	200
0193	28	09-07-14	Looking WNW across floor at edge of concrete floor with bitumen. The concrete indicates the extent of former walled rooms (Offices?) at the northern end of the building. Note also infilled trenches which probably indicate former wall partitions.	WNW			28
0194	28b	09-07-14	Looking WNW across floor at edge of concrete floor with bitumen. The concrete indicates the extent of former walled rooms (Offices?) at the northern end of the building. Note also infilled trenches which probably indicate former wall partitions.	WNW		f	28
0195	29	09-07-14	Looking upward and SE at window panels in clerestory	SE			28
0196	30	09-07-14	Looking E, angled downwards, at raised concrete floor within bitumen floor, marked on Defence refurbishment plan as 'ex-spray paint booth'	E			10
0197	31	09-07-14	Detail of floor, looking NW at raised concrete floor with ramped sections	NW			10
0198	32	09-07-14	Detail of floor, looking NE at raised concrete section	NE			10
0199	33	09-07-14	Looking straight up showing detail of wooden gutter at base of clerestory window framing, note missing diagonal strut (top right)				10
0200	34	09-07-14	Just SE of locn for B99 0199, angled upwards, looking NW, showing context of roof elements shown in B99 0199	NW			10
0201	35	09-07-14	Looking SE at 3 rd major column in E wall S of NE corner, which displays an area of older paint (not covered by the modern blue paint), showing an earlier sequence of interior colours – bare metal, covered by dark red (surface primer), covered by light green, covered by dark green (up to a height of 1.6m), covered by modern blue. The dark green appears to have been applied up to a mid-wall height, beyond which the light green continued.	SE			35
0202	36	09-07-14	As for B99 0201, with flash	SE		f	35
0203	37	09-07-14	Closer view of B99 0201	SE			35
0204	38	09-07-14	Closer view of B99 0201	SE		f	35
0205	39	09-07-14	Close-up of remnant paint in B99 0201				35
0206	40	09-07-14	Close-up of remnant paint in B99 0201			f	35
Exterior images							
0207	41	09-07-14	Looking NE, obliquely at W wall and towards NW corner of building	NE			12
0208	42	09-07-14	Looking NE, obliquely at W wall and towards NW corner of building	NE			20
0209	43	09-07-14	Looking SE, obliquely at W wall and towards SW corner of building	SE			20
0210	44	09-07-14	Looking SE, obliquely at W wall and towards SW corner of building	SE			10
0211	45	09-07-14	Wide view, looking E at W wall	E	+		10



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0212	46	09-07-14	Closer view. Looking E at northern portion of W wall	E			20
0213	47	09-07-14	Closer view. Looking E at southern portion of W wall	E			20
0214	48	09-07-14	Mid portion of Western wall, showing group of roller doors	E	+		20
0215	49	09-07-14	Wider view of W wall, showing all but far N and S ends	E			10
0216	50	09-07-14	Closer view of group of roller doors on W wall	E			18
0217	51	09-07-14	Oblique view, looking NNE, showing extensive concrete paving on W side of building, note drainage features	NNE			10
0218	52	09-07-14	Detail of drainage grate in paving, evident in B99 0217	NNE			20
0219	53	09-07-14	Looking SE at SW corner of building, showing recent addition of a toilet facilities	SE			20
0220	54	09-07-14	Looking SE at SW corner of building, showing recent addition of a toilet facilities	SE			10
0221	55	09-07-14	Looking E at Southern portion of W wall and SW corner	E			10
0222	56	09-07-14	Looking E at Southern portion of W wall and SW corner	E			20
0223	57	09-07-14	Looking NE at whole of building	NE			20
0224	58	09-07-14	Wider view of whole building, looking NE	NE			10
0225	59	09-07-14	Looking NNE at southern face of building, from near SW corner	NNE			10
0226	60	09-07-14	Looking NNE at southern face of building, from near SW corner	NNE	+		20
0227	61	09-07-14	Looking NNE at southern face of building, from near SW corner	NNE			20
	62	09-07-14	[no. recorded in error, no corresponding image]				
0228	63	09-07-14	Looking N at S face of building	N			12
0229	64	09-07-14	Looking N at S face of building	N	+		12
0230	65	09-07-14	Oblique view, looking W across cyclone mesh boundary fence marking S boundary of B99 precinct (this is remembered as the original route from B99 to the Sergeants mess) no scale	W			17
0231	66	09-07-14	Oblique view, looking W across cyclone mesh boundary fence marking S boundary of B99 precinct (this is remembered as the original route from B99 to the Sergeants mess) with scale	W			17
0232	67	09-07-14	Looking N at Eastern portion of southern building face, showing concrete paving where paint shops 1 & 2 were situated prior to demolition	N			10
0233	68	09-07-14	Detail of southern face wall and clerestory windows	N			20
0234	69	09-07-14	Looking NW at SE corner of building	NW			10
0235	70	09-07-14	Looking NNW, obliquely across E Wall of building	NNW			10
0236	71	09-07-14	Wider view, looking NW, obliquely across E Wall of building (as for B99 0234, but with scale)	NW			10
0237	72	09-07-14	Looking WNW obliquely across S wall from near SE corner of building	WNW	-		18
0238	73	09-07-14	Looking NW obliquely across whole of E face of building	NW			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0239	74	09-07-14	Angled down view of concrete platform adjacent to S wall, showing traces of former wall alignments and floor drainage of Paint Shop 2	WNW			10
0240	75	09-07-14	Angled down view of concrete platform adjacent to S wall, showing traces of former wall alignments and floor drainage of Paint Shops 1 & 2	NW			10
0241	1	10-7-14	From same position as photo 69 from 09-07-14, looking at whole building	NW	+		10
0242	2	10-7-14	From same position as photo 69 from 09-07-14, looking at whole building	NW			10
0243	3	10-7-14	From same position as photo 69 from 09-07-14, looking at eastern side of building	NNW	-		20
0244	4	10-7-14	From same position as photo 69 from 09-07-14, looking at eastern side of building	NNW			20
0245	5	10-7-14	Southeast end of east face	W			15
0246	6	10-7-14	Middle of east face	NW			
0247	7	10-7-14	Mid-section of east face	W			
0248	8	10-7-14	Mid-section of east face	NW			
0249	9	10-7-14	Mid-section of east face	W			
0250	10	10-7-14	Northeast corner of east face	NE	+		
0251	11	10-7-14	Northeast corner of east face	NE			
0252	12	10-7-14	Same position looking along east face	SW	-		
0253	13	10-7-14	Same position looking along east face	SW			
0254	14	10-7-14	Same position looking along east face	SW	-		
0255	15	10-7-14	Looking along northern section of east face from northeast corner	SW	-		
0256	16	10-7-14	Looking along northern section of east face from northeast corner, exposure corrected	SW			
0257	17	10-7-14	Same position, angled down at paving near northeast corner	SSW			
0258	18	10-7-14	Same position, angled down at paving near northeast corner	SSW	-		
0259	19	10-7-14	Same position, looking at mid-section of east face	SW			
0260	20	10-7-14	Same position, looking at mid-section of east face	SW	-		
0261	21	10-7-14	Detail of door tracks with upright plates, presumed to be door-stoppers. Thick central rail flanked by two heavily rusted metal strips (possible additional rails). Photo angled downward, vertical format, looking along tracks.	N			
0262	22	10-7-14	Detail of door tracks with upright plates, presumed to be door-stoppers. Thick central rail flanked by two heavily rusted metal strips (possible additional rails). Photo angled downward, vertical format, looking along tracks. Exposure Corrected	N	+		
0263	23	10-7-14	Detail of door tracks with upright plates, presumed to be door-stoppers. Thick central rail flanked by two heavily rusted metal strips (possible additional rails). Photo angled downward, vertical format, looking along tracks.	N			



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0264	24	10-7-14	Detail of door tracks with upright plates, presumed to be door-stoppers. Thick central rail flanked by two heavily rusted metal strips (possible additional rails). Photo angled downward, vertical format, looking along tracks. New Lens.	N	-		
0265	25	10-7-14	Detail of door tracks with upright plates, presumed to be door-stoppers. Thick central rail flanked by two heavily rusted metal strips (possible additional rails). Photo angled downward, vertical format, looking along tracks.	N			
0266	26	10-7-14	At northeast corner, angled down. Detail of end of door-rails.			✓	
0267	27	10-7-14	At northeast corner, angled down. Detail of end of door-rails.		-		
0268	28	10-7-14	At northeast corner, angled directly down onto rail end				
0269	29	10-7-14	At northeast corner, angled directly down onto rail end			✓	
0270	30	10-7-14	Looking at east face roofline - detail of spout at end of box gutter. Representative of all spouts. General shot including window panel also	W			60
0271	31	10-7-14	Closer shot of above position - detail of window panes				180
0272	32	10-7-14	Detail of box gutter spout, same position				180
0273	33	10-7-14	Same position with scale, roofline and light	SW			50
0274	34	10-7-14	Same position without scale	SW	+		50
0275	35	10-7-14	Detail of light. As Above.	SW			105
0276	36	10-7-14	Looking at mid-section of east face, showing tele cable attachments	W			28
0277	37	10-7-14	Detail of cut through track - not an original end, a post- construction cut. NOTE concrete paving extends around the cut, so concrete paving is post cut and therefore post construction				
0278	38	10-7-14	Similar position, looking at cut through track	W			
0279	39	10-7-14	Looking at south section of east face showing end roller door	SW			28
0280	40	10-7-14	Angled down, showing end of door rails and infilling in old door-rail track	N			11
0281	41	10-7-14	Sequence of different service installation at end of door-rail, similar position as above. Angled down.	W			
0282	42	10-7-14	Similar position as above, looking at end of door rail track. Angled down.	SW			
0283	43	10-7-14	Similar position as above, looking at concrete infills and service installations. Angled down.	W			
0284	44	10-7-14	As above, services and infills. Angled down.	W			28
0285	45	10-7-14	As above, services and infills. Angled down.	W		✓	28
0286	46	10-7-14	As above, looking at end of track. Angled down.	W			
0287	47	10-7-14	As above, looking at end of track. Angled down.	W		✓	
0288	48	10-7-14	Looking at south face, angled upwards at window panel	N			



Image ID	Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.					
0289	49	10-7-14	Looking at south face, angled upwards at window panel	N	+	
0290	50	10-7-14	Looking directly up at south face. Detail of steel rails between window panes			
0291	51	10-7-14	Same position as above, looking along south face. Oblique shot across window panel. Angle upward	WNW		
0292	52	10-7-14	Context of rail on west face of building			20
0293	53	10-7-14	Context of rail on west face of building, angled down. Detail of rail - one of the best preserved sections			28
0294	54	10-7-14	Detail of rails from above, angled down	E		
0295	55	10-7-14	Detail of rails from above, angled down	E		✓
0296	56	10-7-14	Detail of rails with possible remnant stop-feature on the rails, angled down	E		✓
0297	57	10-7-14	As above looking straight down on possible remnant stop-feature	E		
0298	58	10-7-14	As above looking straight down on possible remnant stop-feature	E		✓
0299	58b	10-7-14	As above looking straight down on possible remnant stop-feature			
0300	59	10-7-14	Looking across building in southern section. Window panel and line of hooks welded to roof beams	E		35
		Supplementary interior and exterior images				
0301	60	10-7-14	Detail of roof join with hook, same position (out of focus)	E		190
0302	61	10-7-14	Detail of roof join with hook, same position. Focus corrected	E		190
0303	62	10-7-14	Detail of roof join with hook, same position.	E		✓ 190
0304	63	10-7-14	Looking to southeast corner, context shot for old light fitting	SE		28
0305	64	10-7-14	Looking to southeast corner, detail of old light fitting on roof truss (i.e. not on modern light-rail)	SE		200
0306	65	10-7-14	Looking to southeast corner, detail of light fitting on roof truss (i.e. not on modern light-rail). Better background	SE		200
0307	66	10-7-14	Looking to southeast corner, detail of light fitting on roof truss (i.e. not on modern light-rail). Better background	SE		✓ 200
0308	67	10-7-14	Wide view of building from southwest corner	NE		28
0309	68	10-7-14	Wide view of building from southwest corner, wide angle	NE		10
0310	69	10-7-14	Wide view of building from southwest corner, wide angle, elevated shot taken from staircase	NE		10
0311	70	10-7-14	Same position as above, looking up at insulation on roof and later roof beams in southwest corner. Roof beams have been replaced with large I-beams	NE		
0312	71	10-7-14	Shot looking at 3-door section, to match old archive photo	NE		28
0313	72	10-7-14	Shot looking at 3-door section, to match old archive photo, without car in frame	NE	+	28
0314	73	10-7-14	Shot looking at 3-door section, to match old archive photo, without car in frame	NE		28


















Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix B99)	Field no.						
0315	74	10-7-14	Looking at south side of building to replicate approximate location of old archive photo	SE			20
0316	75	10-7-14	Repeat of B99 0223 with correct exposure	NE			17
0317	76	10-7-14	Repeat of B99 0223 with correct exposure	NE	-		17
0318	77	10-7-14	Looking obliquely along south wall from near SW corner of building	NNE			17
0319	78	10-7-14	Looking obliquely along south wall from near SW corner of building	NNE			20
0320	79	10-7-14	Same position, looking at southwest corner of building	NE			20
0321	80	10-7-14	Distanced view of whole building, looking towards southwest corner	NE			30
0322	81	10-7-14	Distance view of whole building, looking towards southeast corner	NNW	+		28
0323	82	10-7-14	Distance view of whole building, looking towards southeast corner	NNW			28
0324	83	10-7-14	Wide view of whole building, from west	ESE			13
0325	84	10-7-14	Wide view of whole building, from northwest	SE			20
0326	85	10-7-14	View of whole building, from northeast	SW			20
0327	86	10-7-14	View of whole building, from northeast	SE	-		20
	87	10-7-14	[recorded in error, no photo with this no.]				31
0328	88	10-7-14	View of NE portion of building, from northeast, replicating photo from archives	SE	+		31
0329	89	10-7-14	View of whole portion of building, from northeast, replicating photo from archives	SE			
0330	1	24-07-14	Recreation of 1945 photo position/outlook, looking SE at NW corner of building B99 (ISO 12500)	SE			18
0331	2	24-07-14	Recreation of 1945 photo position/outlook, looking SE at NW corner of building B99 (ISO 850)	SE			18
0332	3	24-07-14	Northern end of B99 building	E			18
0333	4	24-07-14	Northern end of B99 building	E	+		18
0334	5	24-07-14	Looking towards road entrance N of B99	ENE			10
0335	6	24-07-14	Looking SE at NW corner of building B99	SE			10
0336	10	24-07-14	Looking S at N face of B99 and trees	S			10
0337	11	24-07-14	Looking S at N face of B99 and trees	S	-		10
0338	12	24-07-14	Looking SSW at N face of B99	SSW			14



9.4 Photographic Thumbnail Compendium






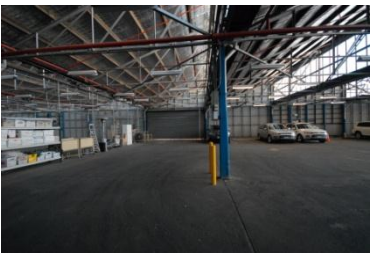
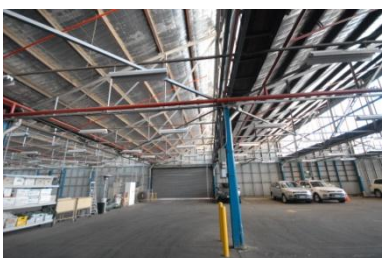


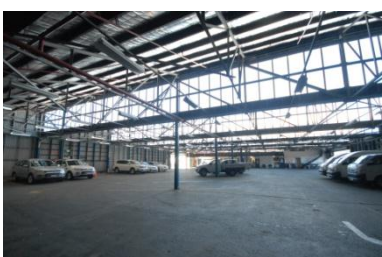
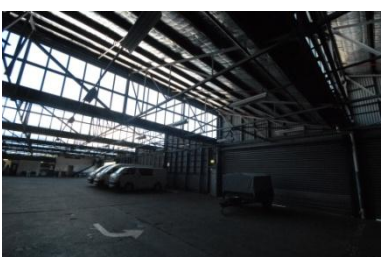
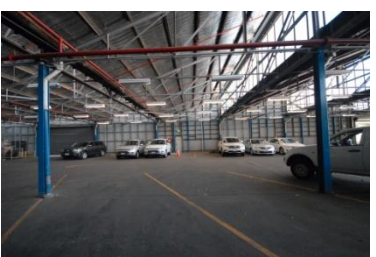

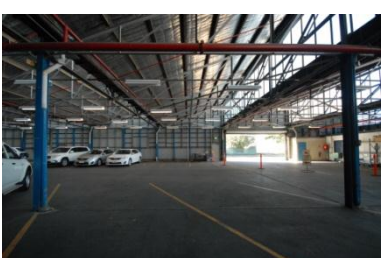
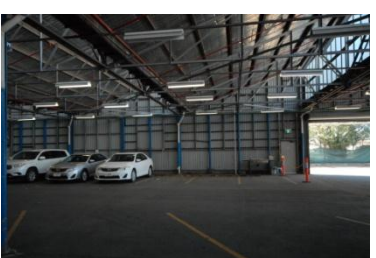


		
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B99 0010	B99 0011	B99 0012
		
B99 0013	B99 0014	B99 0015





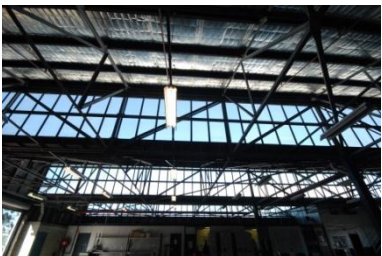







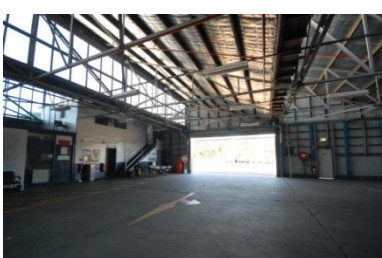

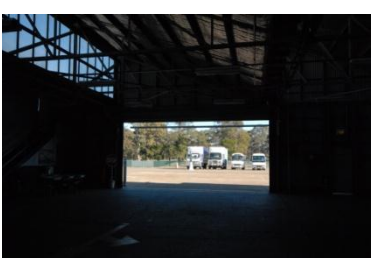


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B99 0019	B99 0020	B99 0021
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B99 0025	B99 0026	B99 0027
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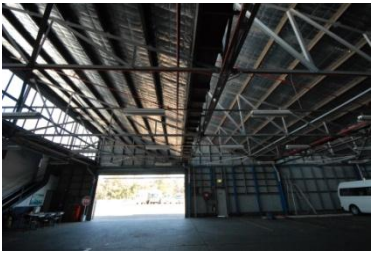





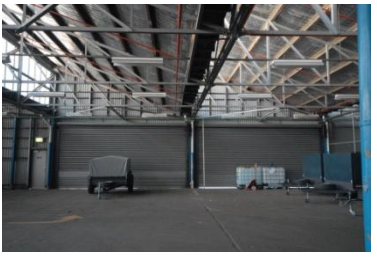




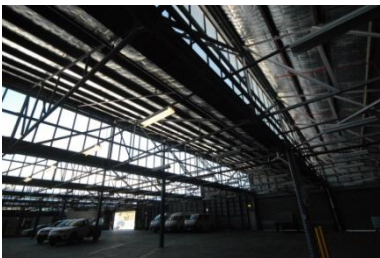



		
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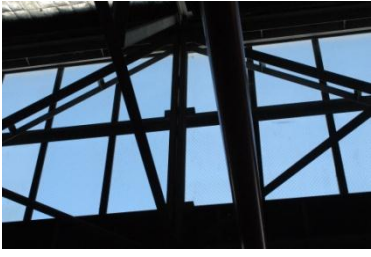











		
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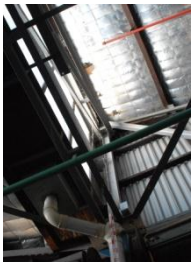
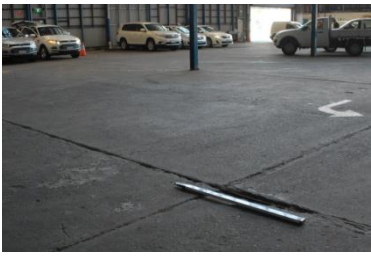
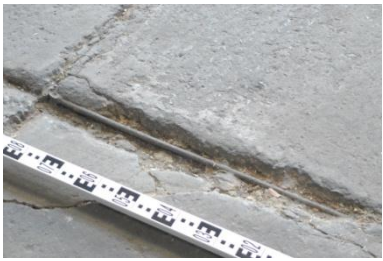
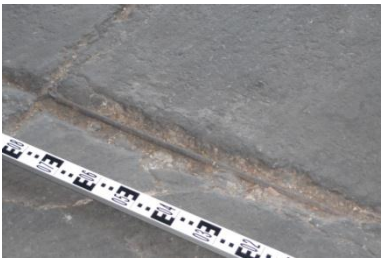
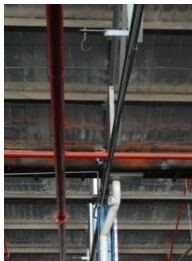





		
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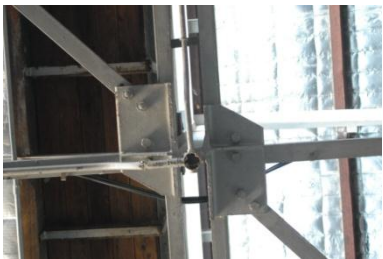






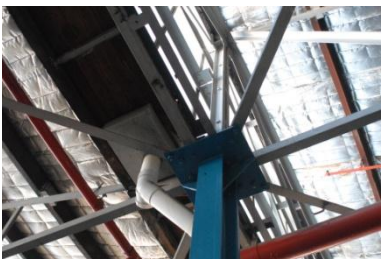





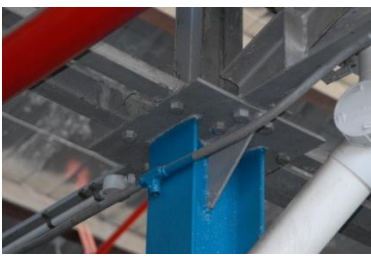


		
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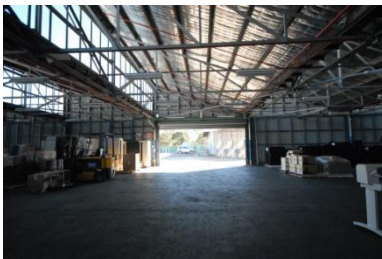
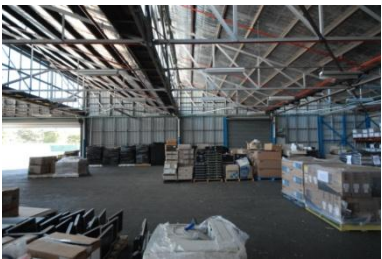



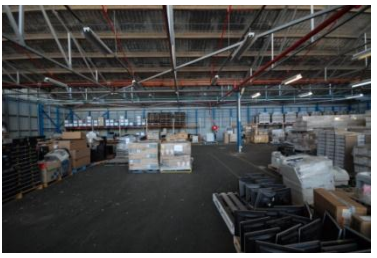




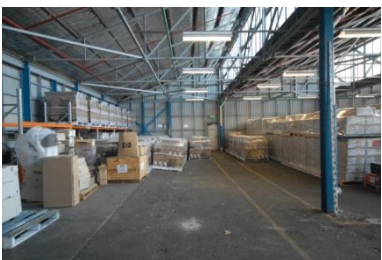






		
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B99 0148	B99 0149	B99 0150


















		
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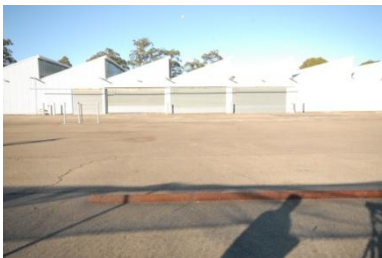
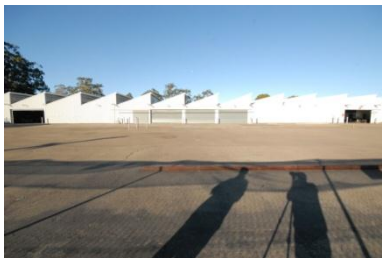












		
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B99 0208	B99 0209	B99 0210


















		
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B99 0214	B99 0215	B99 0216
		
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B99 0220	B99 0221	B99 0222
		
B99 0223	B99 0224	B99 0225



		
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B99 0229	B99 0230	B99 0231
		
B99 0232	B99 0233	B99 0234
		
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B99 0238	B99 0239	B99 0240



		
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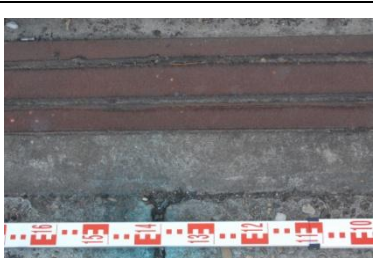
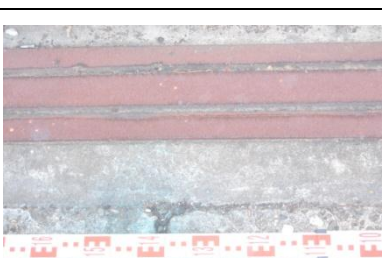




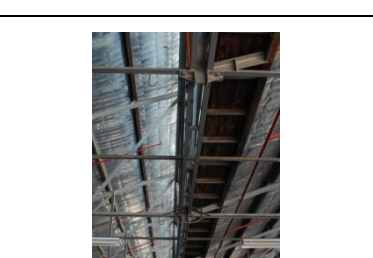


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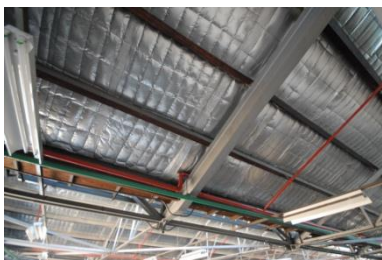






		
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B99 0310	B99 0311	B99 0312
		
B99 0313	B99 0314	B99 0315



		
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Appendix K Cultural Heritage Archival Recordings





9.5 Sample Set of Photographic Prints

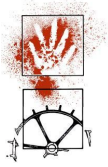


Figure 8.22 Distant view of W face of B99 building (partly obscured), looking E, (image no. B99 0324)



Figure 8.23 View of multiple roller door mid-way along W face of B99 building, (image no. B99 0315)



Figure 8.24 View of whole B99 building looking NE, (image no. B99 0224)



Figure 8.25 The southern face of B99 building, looking NE, (image no. B99 0225)

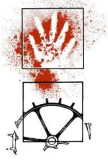


Figure 8.26 The S face of B99 building, looking N, (image no. B99 0322)



Figure 8.27 The S and E faces of B99 building, looking NW, (image no. B99 0242)



Figure 8.28 The whole of the E face of B99 building, looking SW, (image no. B99 0255)



Figure 8.29 The N face of building B99, looking S, the large Eucalypts are not evident in 1944 photography, (image no. 0337)



Figure 8.30 The roller door entrance at the SE corner of the B99 building, looking W, (image no. B99 0245)



Figure 8.31 Detail of service and trenches installed subsequent to original construction, SE corner of B99 building, looking W, (image no. B99 0284)

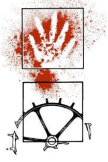


Figure 8.32 Remnant section of sliding door track on W side of building, (image no. B99 0293)



Figure 8.33 Remnant section of sliding door track on E side of building, (image no. B99 0263)



Figure 8.34 End of remnant sliding door track at NE corner of building, (image no. B99 0266)

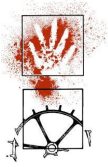


Figure 8.35 Detail (oblique view) of exterior of clerestory windows, (image no. B99 0271)



Figure 8.36 Detail of spout end of box gutter, (image no. B99 0262)



Figure 8.37 Detail of exterior lighting, looking SW, (image no. B99 0273)



Figure 8.38 Detail of possible 'stop' fitting on sliding door rail, (image no. B99 0296)



Figure 8.39 General view of paving on W side of building, looking NNE, (image no. B99 0217)



Figure 8.40 Detail of original surface drainage grill, (image no. B99 0218)



Figure 8.41 Face-on detail of exterior clerestory window on S face of building, looking N, (image no. B99 0232)

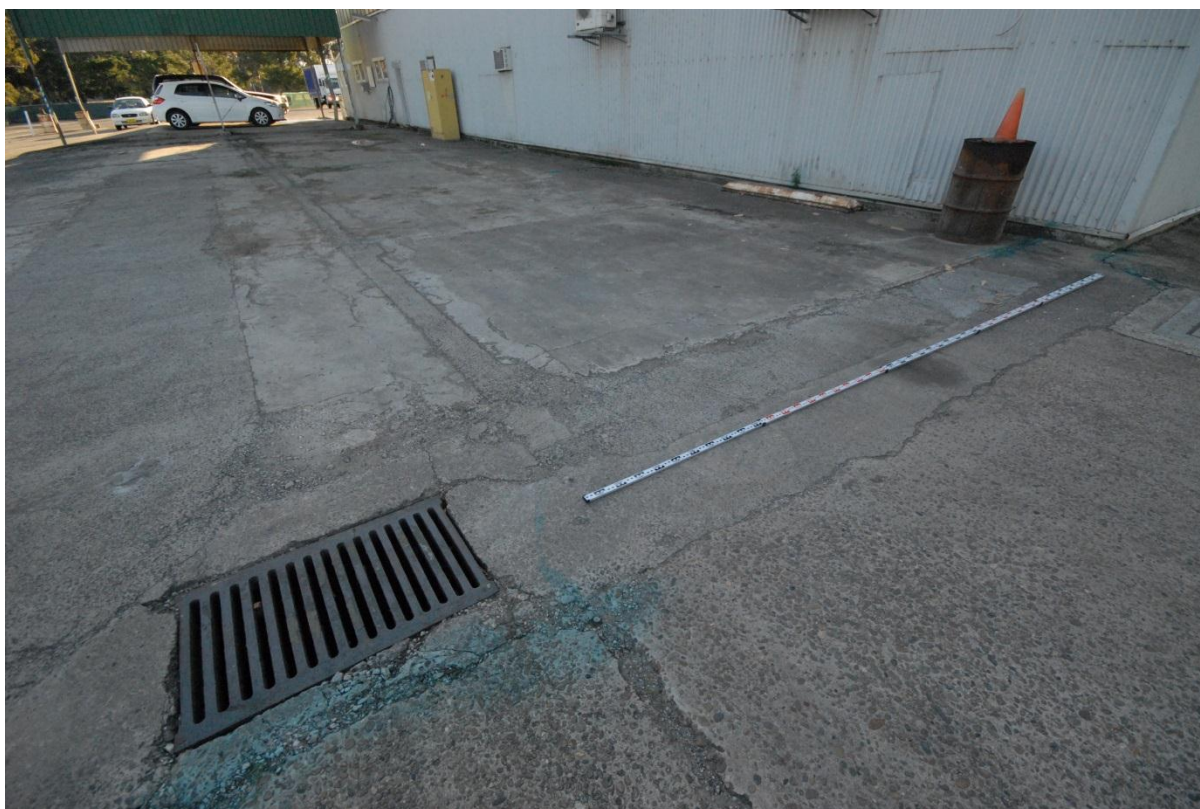


Figure 8.42 Detail of infilled trenches in concrete paving on S side of building, indicating former walls of 'Paintshop', looking NW, (image no. B99 0239)

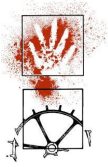


Figure 8.43 Internal view of E wall from mid-section of building, note combination of original and new wall framing, (image no. B99 0002)



Figure 8.44 Detail of E wall showing original framing on left and later framing infill of former door opening on right, looking E, (image no. B99 0011)



X

d

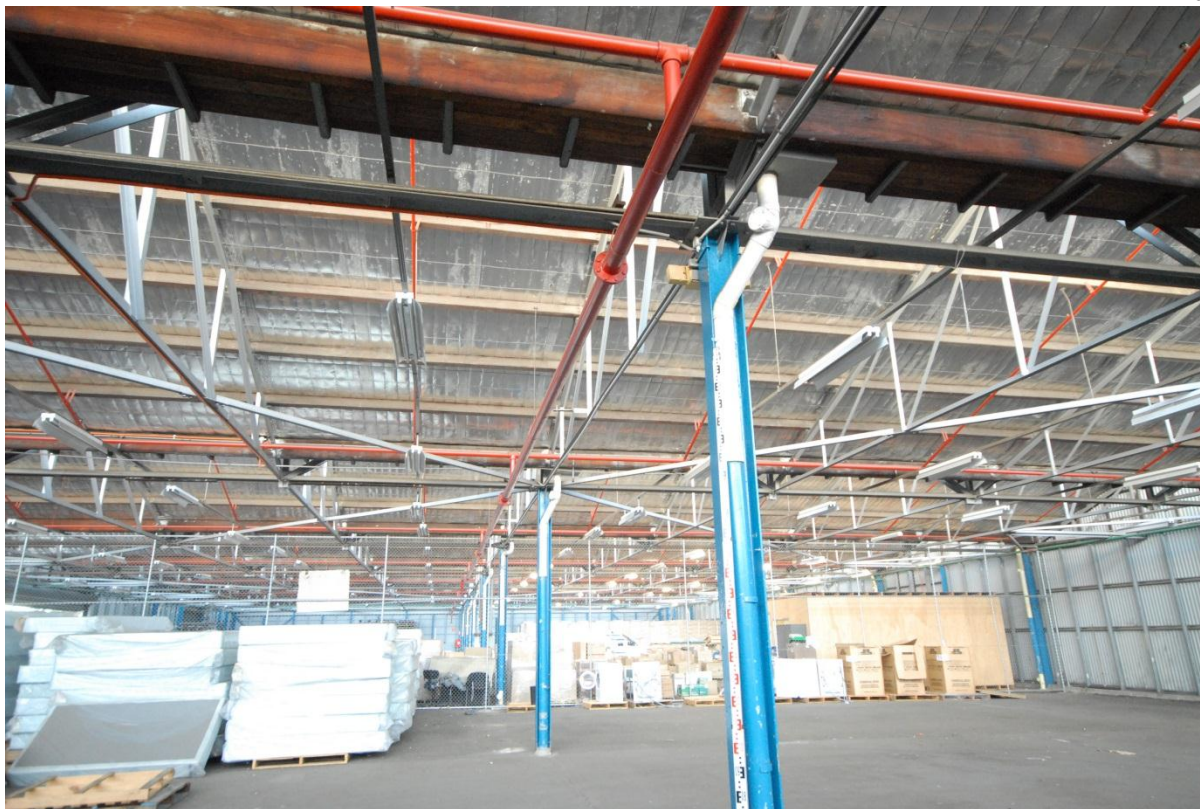


Figure 8.45 View looking N from midpoint of building, showing roof girders, box drain (top foreground) and cross bracing, (image no. B99 0031)



Figure 8.46 Looking at W margin of roof, showing trusses, joining plates, box drain, and cross bracing adjacent to wall, looking NW, (image no. B99 0027)

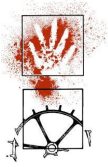


Figure 8.47 Wide view looking SW towards SW corner of building, showing clerestory window framing, (image no. B99 0076)



Figure 8.48 Detail of clerestory window panes, note two varieties of mesh reinforcing, (image no. B99 0124)

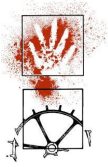


Figure 8.49 Looking E at originally framed wall unit, with modern door insert on right, (image no. B99 0122)



Figure 8.50 Wide view of roof and upper wall structure, looking E, (image no. B99 0078)



Figure 8.51 Detail of former window aperture on E wall, as revealed by wall framing, (image no. B99 0113)



Figure 8.52 Detail of by-hand writing in paint on metal framing (image no. B99 0116)



Figure 8.53 Detail of 'I' column showing original power socket and BHP makers mark, (image no. B99 0107)

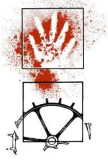


Figure 8.54 View of W wall showing three large roller doors, looking NW, (image no. B99 0070)



Figure 8.55 Wide view of floor, looking SW, showing grid pattern in slab joints, (image no. B99 0073)

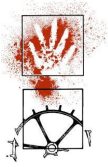


Figure 8.56 Looking S (SE corner of building) at series of rooms and offices along S wall, (image no. B99 0052)



Figure 8.57 Looking SW at recent two storey construction in SW corner of building. The roof structure was modified in order to make the upper building space available, (image no. B99 0059)

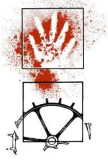


Figure 8.58 Wide view of northern portion of building, looking NE, (image no. B99 0179)



Figure 8.59 Looking NW at NW corner of building showing wall cross bracing on either side of the corner and large supporting 'I' beam across top of N wall, (image no. B99 0170)

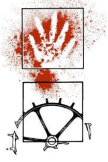


Figure 8.60 View of N wall showing former external doorways as revealed by missing lower wall frame elements, (image no. B99 0185)



Figure 8.61 Looking WNW at concrete floor adjacent to N wall. This formed the floor of former rooms and offices. Former walls are indicated by infilled trenches (image no. B99 0194)



Figure 8.62 Detail of remnant paint showing former interior two-tone green colour scheme, on column of the E wall, (image no. B99 0203)

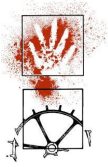


Figure 8.63 Detail of frame jointing on N wall, (image no. B99 0188)



Figure 8.64 Looking up at roof structure and joining plate adjacent to box drain, note bracing strut (top right) has been removed, (image no. B99 0199)

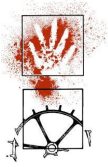


Figure 8.65 Detail of possibly original interior floor kerbing on E wall, note modern door incision, looking NE (image no. B99 0097)



Figure 8.66 Detail of concrete base around a wall 'I' column showing red-brown paint underneath concrete – possibly the metal primer, or an indication of a former interior colour scheme, (image no. B99 0103)

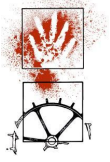


Figure 8.67 Detail of roller door mechanism on W wall, looking NW, (image no. B99 0140)



Figure 8.68 Detail of roller door mechanism on W wall, looking SW, (image no. B99 0142)



Figure 8.69 Detail of upper left margin of (older?) roller door on E wall, looking (image no. B99 0088)



Figure 8.70 Detail of upper right margin of (older) roller door on E wall, (image no. B99 0094)

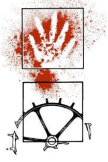


Figure 8.71 Detail of disused internal electrical board, near SW corner of building, (image no. B99 0134)



Figure 8.72 Detail of column with welded fittings, suggesting a formerly attached gate or fence, (image no. B99 0128)



Figure 8.73 Detail of disused ceiling hook, one of a series aligned in a N-S direction (image no. B99 0148)



Figure 8.74 Detail of disused electrical conduit and Bakelite bayonet light fitting, (image no. B99 0307)



Figure 8.75 Detail of truss join at base of clerestory window, also showing old electricity conduit and disused remnant ceiling hook, one of a series running E-W across the building, (image no. B99 0303)



Figure 8.76 Detail of joining plates at base of clerestory window, (image no. B99 0151)



Figure 8.77 Detail of 6-way roof join and plate, near wall, (image no. B99 0154)

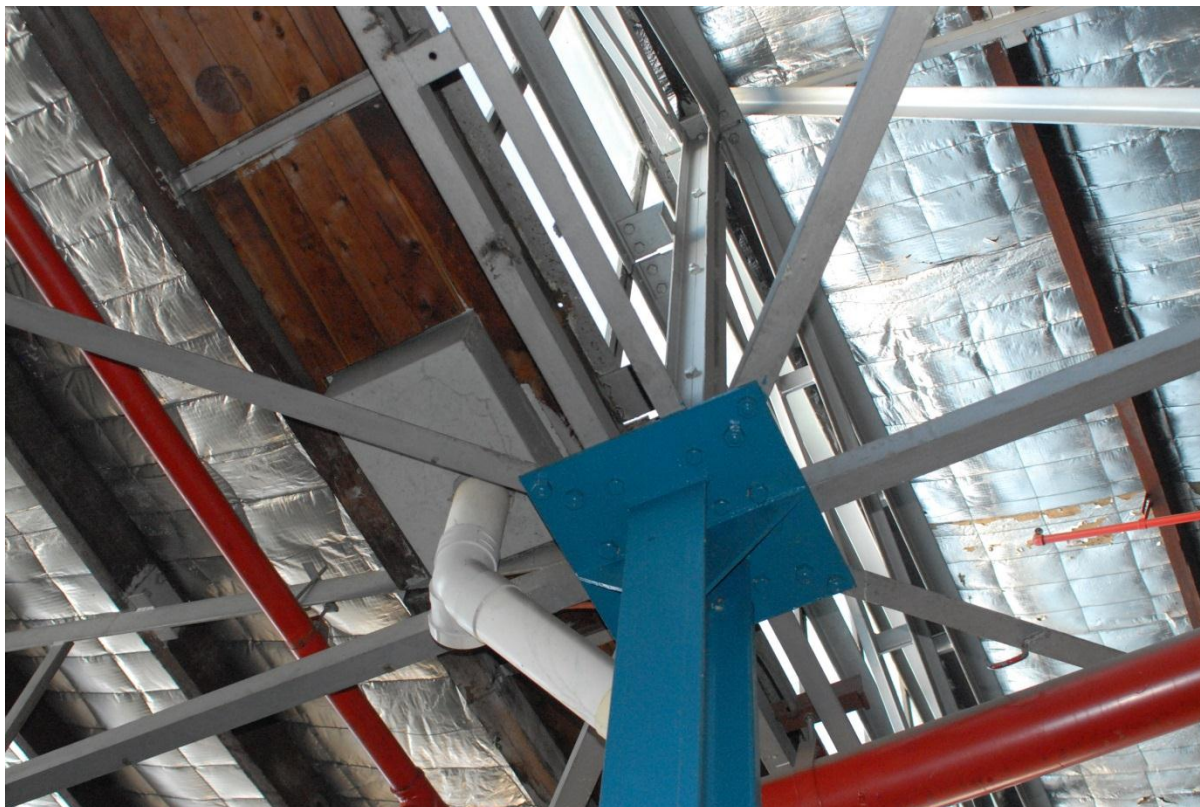


Figure 8.78 Detail of top of central-axis roof column, situated at the point of intersection of cross bracing, showing associated jointing, (image no. B99 0159)

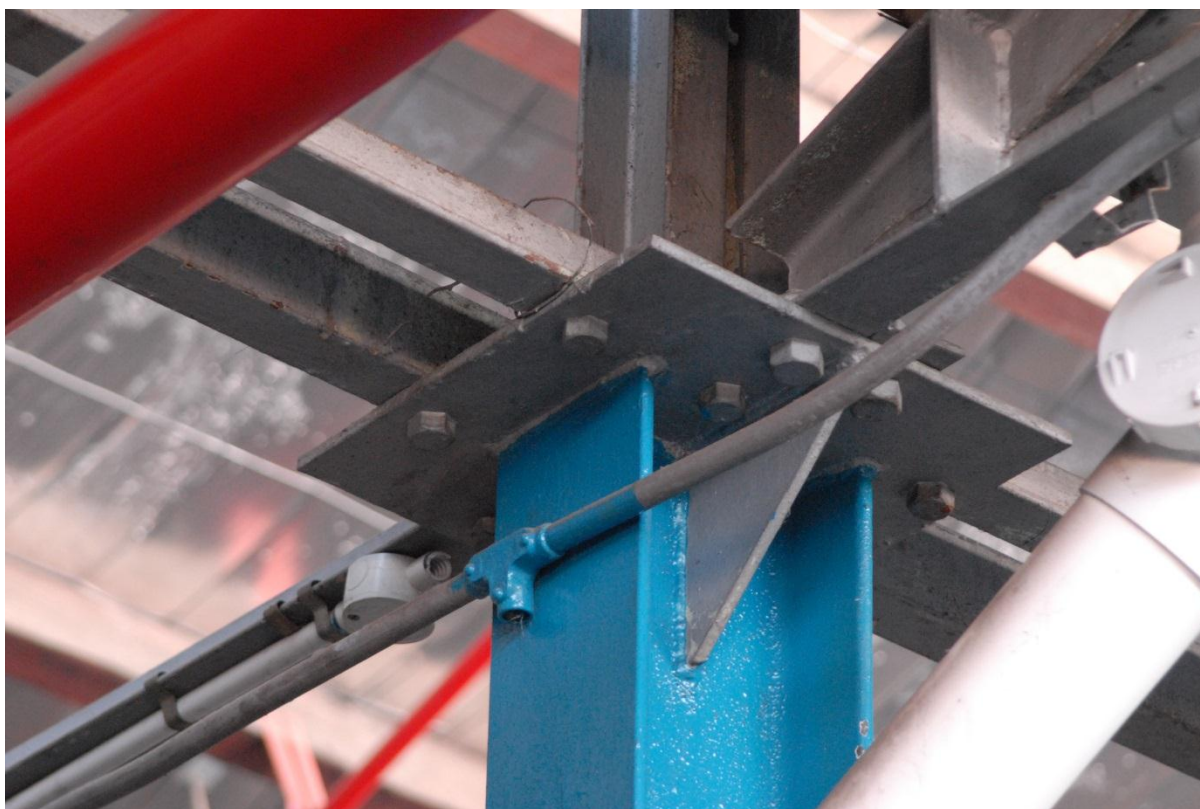


Figure 8.79 Detail of top of column, not situated at intersection of roof bracing, (image no.B99 0164)

Appendix K Cultural Heritage Archival Recordings





9. OLD NURSERY COMMEMORATIVE GARDEN

9.1 Description

Location

The commemorative garden is located in the north eastern portion of a larger cyclone fenced park of approximately 0.8 hectares. The enclosure is situated immediately west of a group of administrative buildings currently housing the Defence Community Organisation and the Defence Support Group.

Map Grid Locations (MGA datum):

Main grouping of plaques:	307891.6241539
Approximate boundary of commemorative area:	(NW) 307851.6241557
	(SW) 307844.6241535
	(SE) 307911.6241535
	(NE) 307920.6241545
Larger fenced off (former Nursery) area:	(NW) 307794.6241566
	(SW) 307783.6241507
	(SE) 307897.6241477

The Garden

The fenced-off area consists of a regularly mowed open parkland with mature and younger native trees, together with some planted exotics. The whole of the enclosed area is thought to have originally served as the Second District Nursery, which one of the commemorative plaques states was opened here on the 29 August 1978. Alignments of mature trees interspersed by grassed areas, are indicative of former nursery activity areas. Subsequently the area has been developed as a recreational park with picnic tables, shelters and catering sheds.

This commemorative garden is an informal portion of the enclosure at its north eastern end, where a number of large stones and rock edged garden beds (some with brass plaques), and associated plantings are situated. There is no formal or defined edge to commemorative portion of the garden, except for a cyclone boundary fence on the northern side. The boundary corners presented above are indicative and approximate only.

The garden contains four commemorative plaques:

- One relating to 'pine trees' from the Gallipoli 'Lone Pine'

THESE PINE TREES WERE
GROWN FROM SEEDS OBTAINED
FROM THE LONE PINE TREES
AT GALLIPOLI AND BROUGHT
HOME TO AUSTRALIA BY
GALLIPOLI VETERANS.

- One commemorating the opening of the Second Military District Nursery

SECOND MILITARY DISTRICT NURSERY
OFFICIALLY OPENED ON THIS SITE BY
Col. R.S. DEACON A.M.
COMD 2MD
ON TUESDAY 29 AUGUST 1978



- One in memory of Jack Darling 1920 – 1983

IN MEMORY OF JACK DARLING
2 MARCH 1920 – 24 OCTOBER 1983
A PLACE WHERE HE SPENT
MANY PLEASANT MOMENTS

- One noting the Grodno Winery origin of the border stones

THIS ROCKERY WAS BUILT
FROM STONES WHICH CAME FROM
"GRONDNO WINERY"
CIRCA 1870
WHICH WAS LOCATED ON
HOLSWORTHY FIRING RANGE

The first three plaques have a similar appearance and font and may have been manufactured by the same party. All are mounted on sandstone, the first three are undressed natural stones, the first two are free-standing, and the fourth is on dressed stone and incorporated into a raised garden edge.

There are four pine/cypress tree plantings in the garden. One, or perhaps all of these, may be the subject of the 'Lone Pine' commemorative plaque. The Australian War Memorial (AWM) has researched the history of 'Lone Pine' seedlings in Australia and traces their origin to two pine cones souvenired by two Australian soldiers and subsequently propagated by family members in the late 1920s. Six seedlings are known from these original cones, all of which were planted in commemorative contexts, including a specimen planted by the Duke of Gloucester in 1934 at the AWM in Canberra. All of the Pines in the Moorebank commemorative garden are quite young and most likely date from the 1980s when seedlings and grafts from the AWM tree were made available to interested organisations, schools and clubs throughout Australia (<http://www.awm.gov.au/encyclopedia/lone.asp>).

The 'Grondno' (sic) Winery plaque is mounted on an angled dressed stone and forms part of a raised circular garden edge of mortared dressed sandstone block surrounding a large mature Eucalypt. The use of pre-Defence era materials from the Grodno Winery site demonstrates a knowledge of local history and suggests that the garden's creators sought to incorporate and recognise local heritage values, and to document the evolution of site use within the Moorebank precinct.

Apart from an overarching military theme, the commemorative nature of the garden is informal, small scale, and appears to be relatively opportunistic.

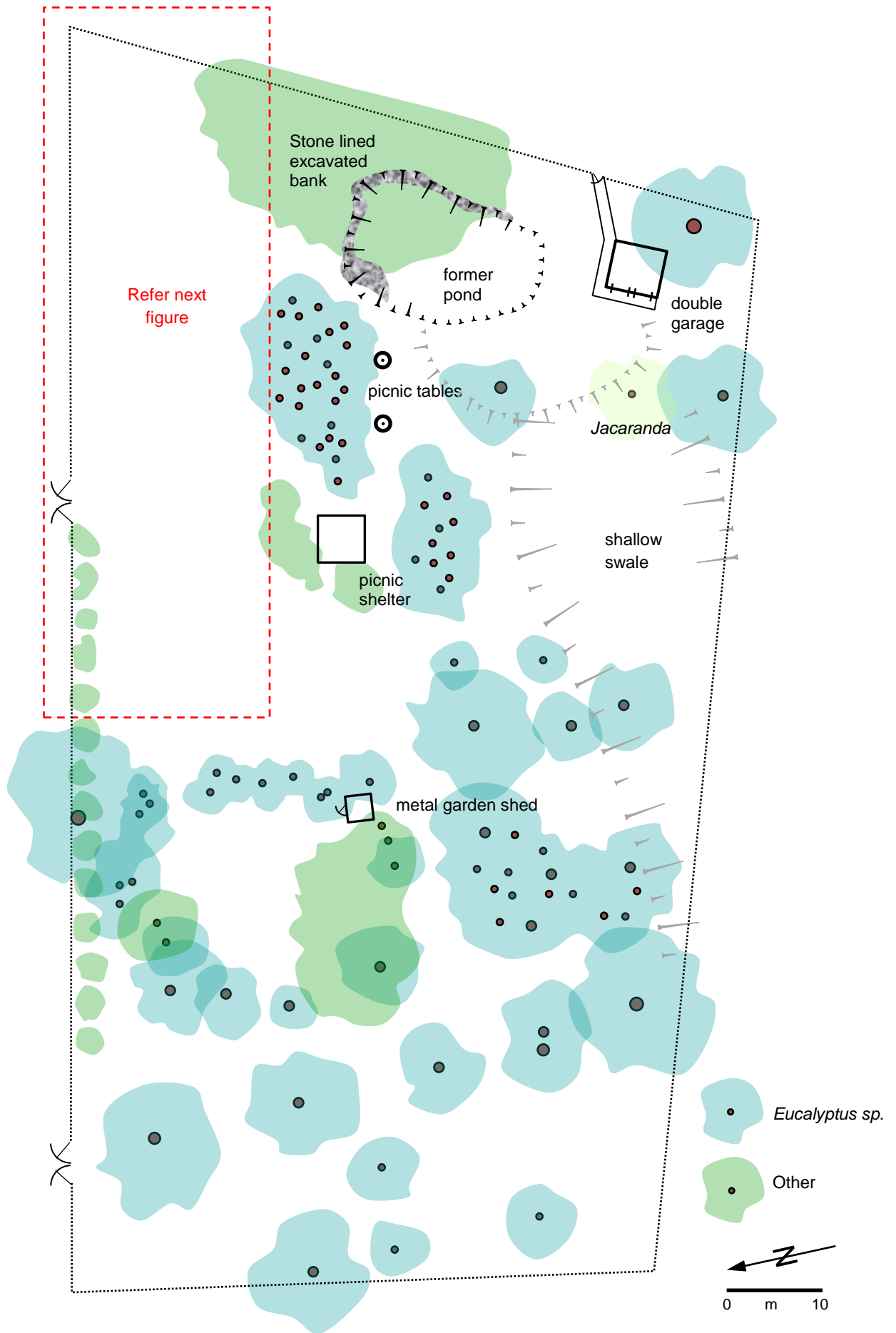


Figure 9.1 General plan of Commemorative Garden in grounds of former nursery

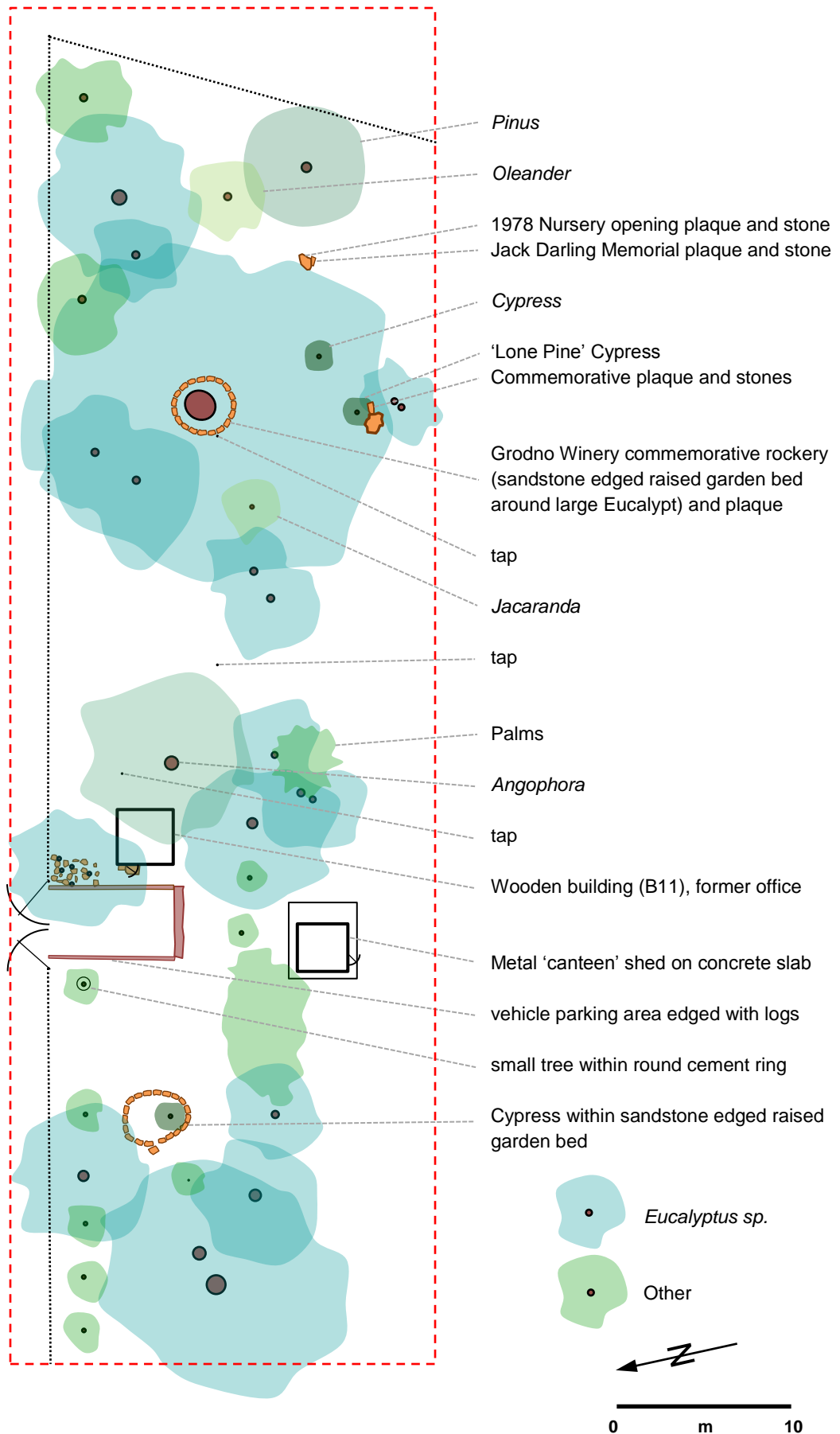


Figure 9.2 Detailed plan of Commemorative Garden



9.2 Plans of Photograph Locations

KEY

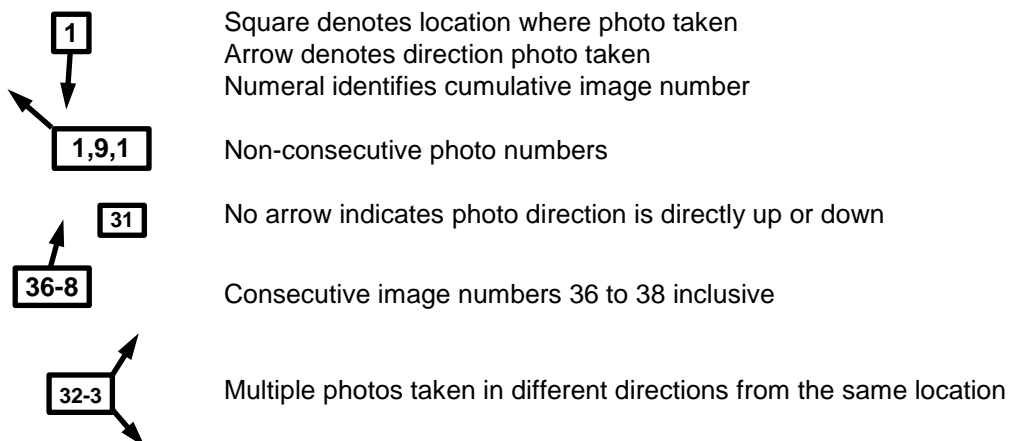




Figure 9.3 Aerial photo of Commemorative garden area showing photo locations outside of garden boundaries. All numbers have a 'CG' prefix. (Base image from Google Earth Pro 2014, image date: 1/1/2009).

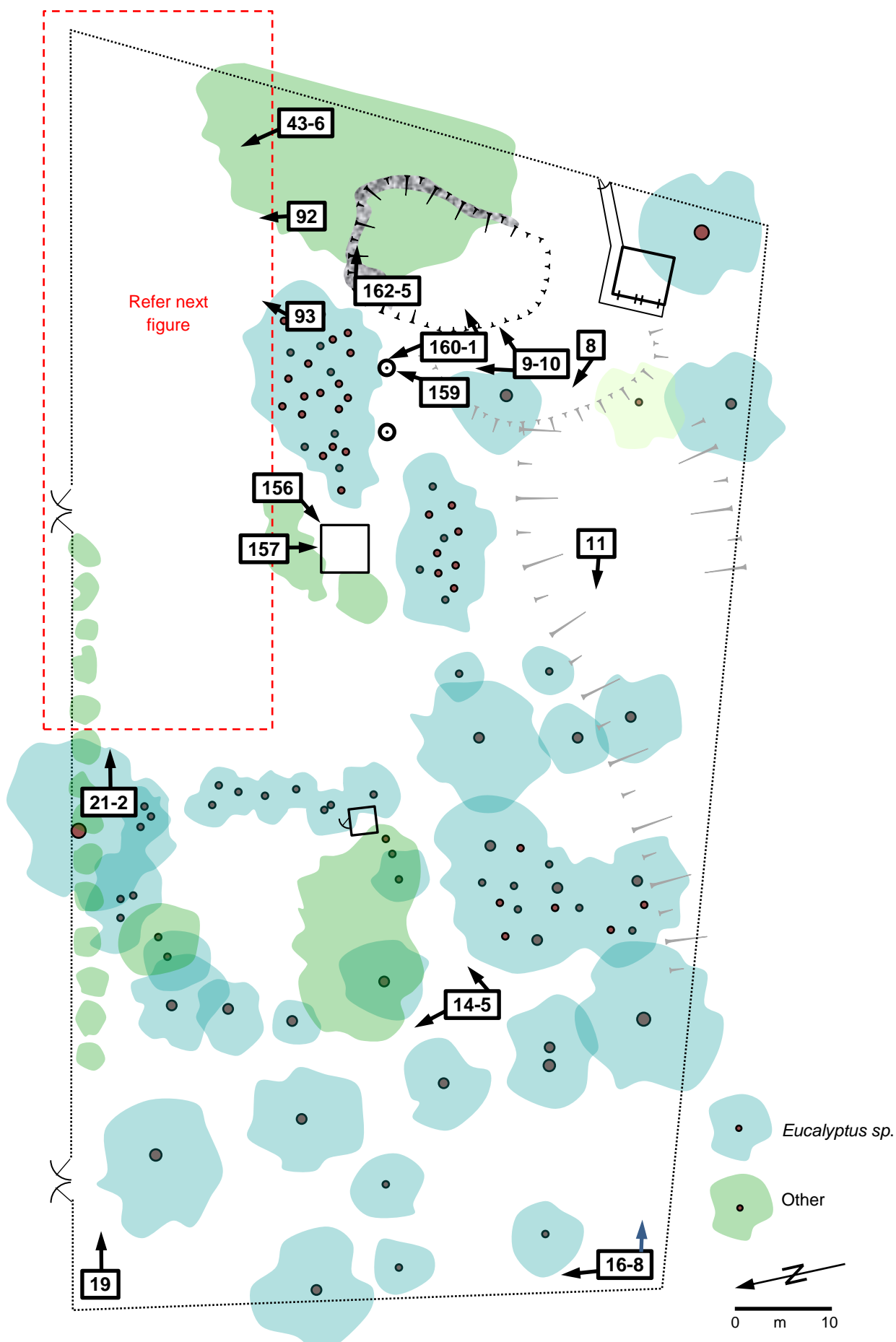


Figure 9.4 General plan of Commemorative garden photo locations. All numbers have a 'CG' prefix.

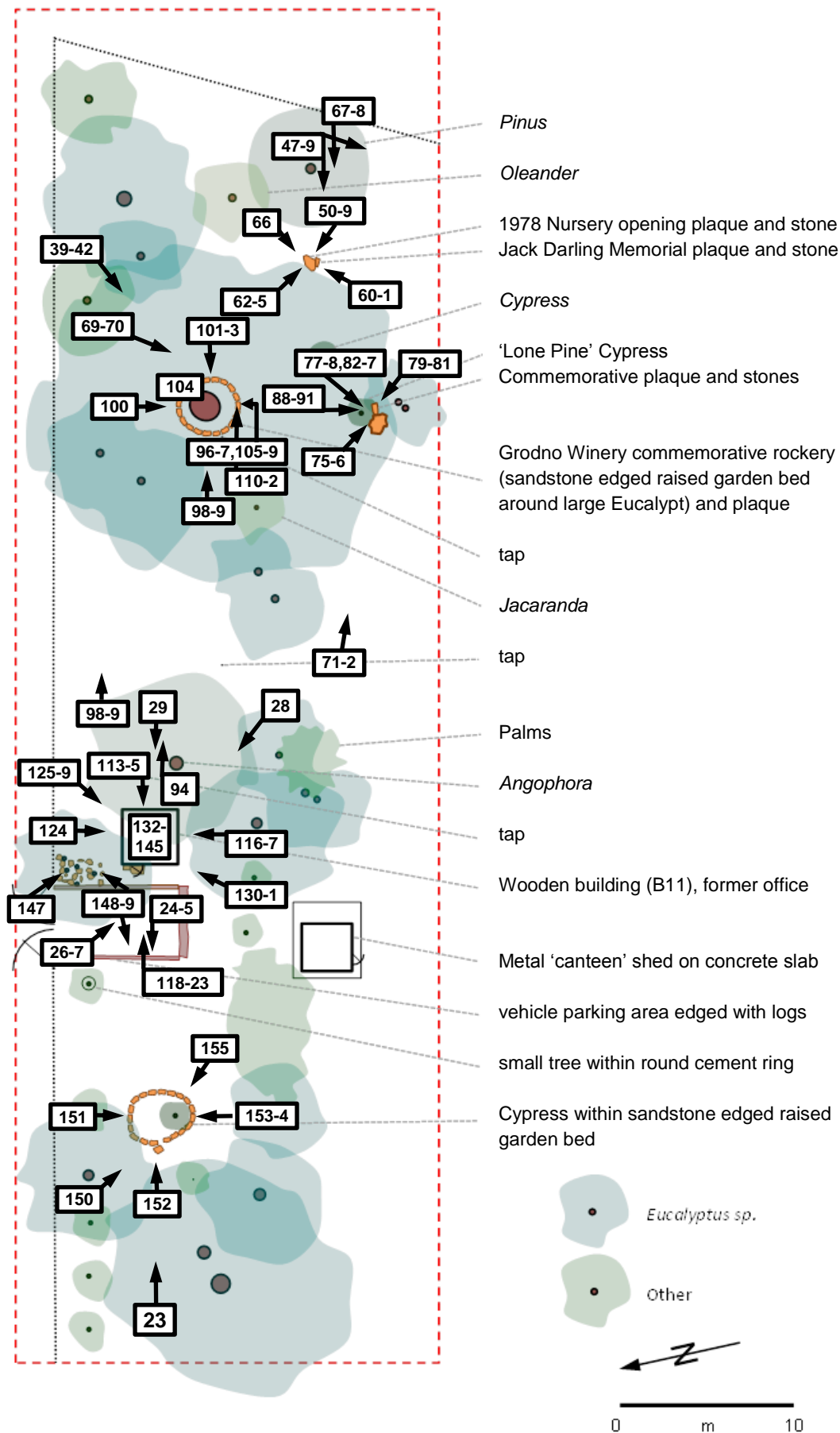


Figure 9.5 Detail plan of Commemorative garden photo locations. All numbers have a 'CG' prefix.



9.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix CG)	Field no.						
000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
0001	1	02-07-14	Entrance to the defence community organisation, taken from outside garden	SW			28
0002	2	02-07-14	Entrance to the defence community organisation, taken from outside garden	SW			11
0003	3	02-07-14	General view from outside fence of commemorative garden area	W	+		
0004	4	02-07-14	General view from outside fence of commemorative garden area	W			10
0005	5	02-07-14	General view of garden	W			
0006	6	02-07-14	General view of garden	W	+		
0007	7	02-07-14	General view	W			10
0008	8	02-07-14	Garden and picnic areas	W			10
0009	9	02-07-14	North-eastern portion of garden, general view				10
0010	10	02-07-14	View of pond feature	E			10
0011	11	02-07-14	General view of southwest portion of garden				
0012	12	02-07-14	General view of centre north of garden				
0013	13	02-07-14	View of eastern section of garden	E			10
0014	14	02-07-14	Looking towards northwest corner, general view	NW			10
0015	15	02-07-14	General view looking northeast	NE			20
0016	16	02-07-14	General view from southwest corner	E			10
0017	17	02-07-14	From southwest corner	N	-		17
0018	18	02-07-14	(See above) Bracketed with previous image	N			17
0019	19	02-07-14	General view from northwest corner	E			13
0020	20	02-07-14	General view from outside fence	SE			10
0021	21	02-07-14	General view from centre of garden	SE			10
0022	22	02-07-14	General view from centre of garden	SE			20
0023	23	02-07-14	Looking towards building B11	E			20
0024	24	02-07-14	Looking from car park and B11	W	+		20
0025	25	02-07-14	Looking from car park and B11	W			20
0026	26	02-07-14	Looking towards B11	SE	-		14



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix CG)	Field no.						
0027	27	02-07-14	Looking towards B11, exposure corrected	SE			
0028	28	02-07-14	B11 in context from SE	NW			12
0029	29	02-07-14	B11 in context from E	W			20
0030	30	02-07-14	From outside fence		+		10
0031	31	02-07-14	From outside fence				10
0032	32	02-07-14	From outside fence, looking at area of commemorative plaques	S			20
0033	33	02-07-14	Large eucalypt with vineyard stone surround	S	+		20
0034	34	02-07-14	Large eucalypt with vineyard stone surround	S			20
0035	35	02-07-14	Context shot of B11	SW	-		20
0036	36	02-07-14	Context shot of B11	SW			20
0037	37	02-07-14	Context shot of commemorative section of garden	SE	+		12
0038	38	02-07-14	Context shot of commemorative section of garden	SE			20
0039	39	02-07-14	General context of commemorative section of garden	SW	+		10
0040	40	02-07-14	General context of commemorative section of garden	SW			10
0041	41	02-07-14	General context of commemorative section of garden	SW			20
0042	42	02-07-14	General context of commemorative section of garden	SW	+		20
0043	43	02-07-14	Looking towards commemorative section of garden	NW			10
0044	44	02-07-14	Looking towards commemorative section of garden	NW			17
0045	45	02-07-14	Looking towards commemorative section of garden	NW		✓	17
0046	46	02-07-14	Looking towards commemorative section of garden	NW		✓	17
0047	47	02-07-14	Looking at "reservoir"	S			13
0048	48	02-07-14	Looking at commemorative section of garden	W	+		13
0049	49	02-07-14	Looking at commemorative section of garden				13
0050	50	02-07-14	Two memorial stones from southeast	NW		✓	35
0051	51	02-07-14	Two memorial stones from southeast	NW		✓	35
0052	52	02-07-14	Two memorial stones from southeast	NW	-	✓	35
0053	53	02-07-14	Two memorial stones from southeast, closer	NW	-	✓	35
0054	54	02-07-14	Detail of plaque on larger stone	NW		✓	35
0055	55	02-07-14	Detail of plaque on larger stone	NW			35



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix CG)	Field no.						
0056	56	02-07-14	Detail of plaque on small stone	NW			35
0057	57	02-07-14	Detail of plaque on small stone	NW		✓	35
0058	58	02-07-14	Close up of plaque on small stone	NW		✓	35
0059	59	02-07-14	Close up of plaque on small stone	NW	-		35
0060	60	02-07-14	Stones from side	NE			35
0061	61	02-07-14	Stones from side	NE		✓	35
0062	62	02-07-14	Stones from rear	SE	-		35
0063	63	02-07-14	Stones from rear	SE		✓	35
0064	64	02-07-14	Stones from rear	SE			35
0065	65	02-07-14	Stones from rear	SE		✓	35
0066	66	02-07-14	Stones from side	SW			35
0067	67	02-07-14	Lone pine tree	W			30
0068	68	02-07-14	Lone pine tree	W	-		28
0069	69	02-07-14	Lone pine	S			28
0070	70	02-07-14	Lone pine	S	-		28
0071	71	02-07-14	Lone pine from west	E	-		28
0072	72	02-07-14	Lone pine from west	E			28
0073	73	02-07-14	Lone pine from base looking up				28
0074	74	02-07-14	Lone pine from base looking up		-		28
0075	75	02-07-14	Two rocks at base of lone pine	SE	+		28
0076	76	02-07-14	Two rocks at base of lone pine	SE			28
0077	77	02-07-14	Two rocks at base of lone pine	SW	-		28
0078	78	02-07-14	Two rocks at base of lone pine	SW			28
0079	79	02-07-14	Two rocks at base of lone pine	NW			28
0080	80	02-07-14	Two rocks at base of lone pine	NW	-		28
0081	81	02-07-14	Two rocks at base of lone pine	NW	+		28
0082	82	02-07-14	Close up of standing stone at base of lone pine	S			28
0083	83	02-07-14	Close up of standing stone at base of lone pine	S		✓	28



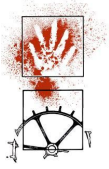
Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
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0084	84	02-07-14	Detail of plaque on standing stone	S			50
0085	85	02-07-14	Detail of plaque on standing stone	S		✓	50
0086	86	02-07-14	Detail of plaque on standing stone	S			50
0087	87	02-07-14	Detail of plaque on standing stone	S		✓	50
0088	88	02-07-14	Context of stones at base of lone pine	S			35
0089	89	02-07-14	Context of stones at base of lone pine	S		✓	35
0090	90	02-07-14	Context of stones at base of lone pine	S	+	✓	35
0091	91	02-07-14	Context of stones at base of lone pine	S	++	✓	35
0092	92	02-07-14	Large eucalypt with winery stones	N			28
0093	93	02-07-14	Large eucalypt with winery stones	NE			28
0094	94	02-07-14	Large eucalypt with winery stones looking east from B11	E			28
0095	95	02-07-14	Large eucalypt with winery stones looking west from east fence	W			28
0096	96	02-07-14	Detail of garden bed (winery stones)	N			28
0097	97	02-07-14	Detail of garden bed (winery stones)	N		✓	28
0098	98	02-07-14	Detail of garden bed (winery stones)	E			28
0099	99	02-07-14	Detail of garden bed (winery stones)	E		✓	28
0100	100	02-07-14	Detail of garden bed (winery stones)	S			28
0101	101	02-07-14	Detail of garden bed (winery stones)	W			28
0102	102	02-07-14	Detail of garden bed (winery stones)	W	+	✓	28
0103	103	02-07-14	Detail of garden bed (winery stones)	W		✓	28
0104	104	02-07-14	Large eucalypt, looking up at crown				
0105	105	02-07-14	Large eucalypt, looking up at crown				
0106	106	02-07-14	Detail of plaque	N			35
0107	107	02-07-14	Detail of plaque	N		✓	35
0108	108	02-07-14	Close up of plaque	N			
0109	109	02-07-14	Close up of plaque	N		✓	
0110	110	02-07-14	Plaque stone in profile	SE			35
0111	111	02-07-14	Plaque stone in profile	SE		✓	35



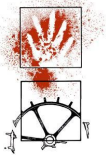
Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
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0113	113	02-07-14	B11 hut	W			35
0114	114	02-07-14	B11 hut	W	+	✓	35
0115	115	02-07-14	B11 hut	W		✓	35
0116	116	02-07-14	B11 hut	N			35
0117	117	02-07-14	B11 hut	N		✓	35
0118	118	02-07-14	B11 hut with car park and garden bed context	E			
0119	119	02-07-14	B11 hut	E			35
0120	120	02-07-14	B11 hut	E		✓	35
0121	121	02-07-14	B11 hut	E	+	✓	35
0122	122	02-07-14	B11 hut	E	++	✓	35
0123	123	02-07-14	B11 hut	E			35
0124	124	02-07-14	B11 from north	S			12
0125	125	02-07-14	B11 oblique	SW			28
0126	126	02-07-14	B11 oblique	SW	++	✓	28
0127	127	02-07-14	B11 oblique	SW	+	✓	28
0128	128	02-07-14	B11 oblique	SW	+	✓	28
0129	129	02-07-14	B11 oblique	SW			28
0130	130	02-07-14	B11 hut	NE			28
0131	131	02-07-14	B11 hut	NE	-		28
0132	132	02-07-14	Inside B11 looking at E wall	NE			10
0133	133	02-07-14	Inside B11 looking at E wall	NE	-		10
0134	134	02-07-14	Inside B11 looking at E wall	NE		✓	10
0135	135	02-07-14	Southern internal wall of B11	SW			10
0136	136	02-07-14	Southern internal wall of B11	SW		✓	10
0137	137	02-07-14	Western internal wall of B11	NW	-		10
0138	138	02-07-14	Western internal wall of B11	NW		✓	10
0139	139	02-07-14	Northern internal wall of B11	N			10
0140	140	02-07-14	Northern internal wall of B11	N		✓	10



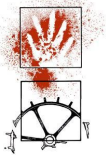
Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix CG)	Field no.						
0141	141	02-07-14	Ceiling of B11	NE			10
0142	142	02-07-14	Ceiling of B11	NE		✓	10
0143	143	02-07-14	Floor of B11	SW			10
0144	144	02-07-14	Floor of B11	SW		✓	10
0145	145	02-07-14	Detail of northern interior wall showing hand writing	N			15
0146	146	02-07-14	Detail of northern interior wall showing hand writing	N		✓	15
0147	147	02-07-14	Rock edging of garden bed by B11				15
0148	148	02-07-14	Rock edging of garden bed by B11	NE			15
0149	149	02-07-14	Rock edged garden bed	SW			17
0150	150	02-07-14	Rock edged garden bed	SE			17
0151	151	02-07-14	Rock edged garden bed	S			20
0152	152	02-07-14	Rock edged garden bed	E			20
0153	153	02-07-14	Rock edged garden bed	N			20
0154	154	02-07-14	Rock edged garden bed	N		✓	20
0155	155	02-07-14	Rock edged garden bed	W			20
0156	156	02-07-14	Open picnic shelter and three tables				20
0157	157	02-07-14	Open picnic shelter and three tables	S			20
0158	158	02-07-14	Two circular picnic tables	NE			20
0159	159	02-07-14	Detail of east circular picnic table	NE			20
0160	160	02-07-14	Detail of east circular picnic table	N			20
0161	161	02-07-14	Looking east at overgrown pond	E			13
0162	162	02-07-14	Remnant stone lined embankment of pond			✓	10
0163	163	02-07-14	Remnant stone lined embankment of pond		-	✓	10
0164	164	02-07-14	Remnant stone lined embankment of pond (camera strap)		-	✓	10
0165	165	02-07-14	Remnant stone lined embankment of pond (without camera strap)			✓	10



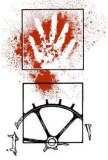
9.4 Photographic Thumbnail Compendium



		
CG 0001	CG 0002	CG 0003
		
CG 0004	CG 0005	CG 0006
		
CG 0007	CG 0008	CG 0009
		
CG 0010	CG 0011	CG 0012
		
CG 0013	CG 0014	CG 0015



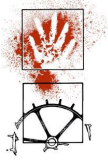
		
CG 0016	CG 0017	CG 0018
		
CG 0019	CG 0020	CG 0021
		
CG 0022	CG 0023	CG 0024
		
CG 0025	CG 0026	CG 0027
		
CG 0028	CG 0029	CG 0030




		
CG 0031	CG 0032	CG 0033
		
CG 0034	CG 0035	CG 0036
		
CG 0037	CG 0038	CG 0039
		
CG 0040	CG 0041	CG 0042
		
CG 0043	CG 0044	CG 0045



CG 0046	CG 0047	CG 0048
CG 0049	CG 0050	CG 0051
CG 0052	CG 0053	CG 0054
CG 0055	CG 0056	CG 0057
CG 0058	CG 0059	CG 0060


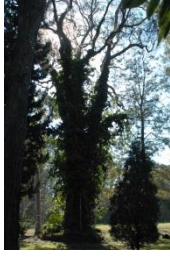















		
CG 0061	CG 0062	CG 0063
		
CG 0064	CG 0065	CG 0066
		
CG 0067	CG 0068	CG 0069
		
CG 0070	CG 0071	CG 0072
		
CG 0073	CG 0074	CG 0075



CG 0076	CG 0077	CG 0078
CG 0079	CG 0080	CG 0081
CG 0082	CG 0083	CG 0084
CG 0085	CG 0086	CG 0087
CG 0088	CG 0089	CG 0090










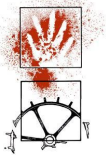
		
CG 0091	CG 0092	CG 0093
		
CG 0094	CG 0095	CG 0096
		
CG 0097	CG 0098	CG 0099
		
CG 0100	CG 0101	CG 0102
		
CG 0103	CG 0104	CG 0105








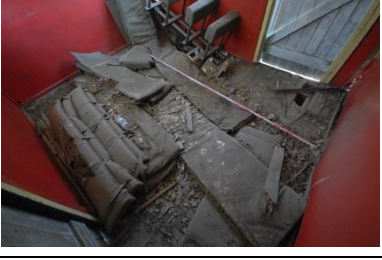

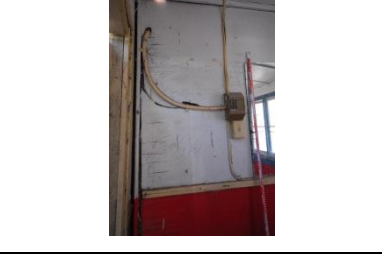







		
CG 0106	CG 0107	CG 0108
		
CG 0109	CG 0110	CG 0111
		
CG 0112	CG 0113	CG 0114
		
CG 0115	CG 0116	CG 0117
		
CG 0118	CG 0119	CG 0120



		
CG 0121	CG 0122	CG 0123
		
CG 0124	CG 0125	CG 0126
		
CG 0127	CG 0128	CG 0129
		
CG 0130	CG 0131	CG 0132
		
CG 0133	CG 0134	CG 0135

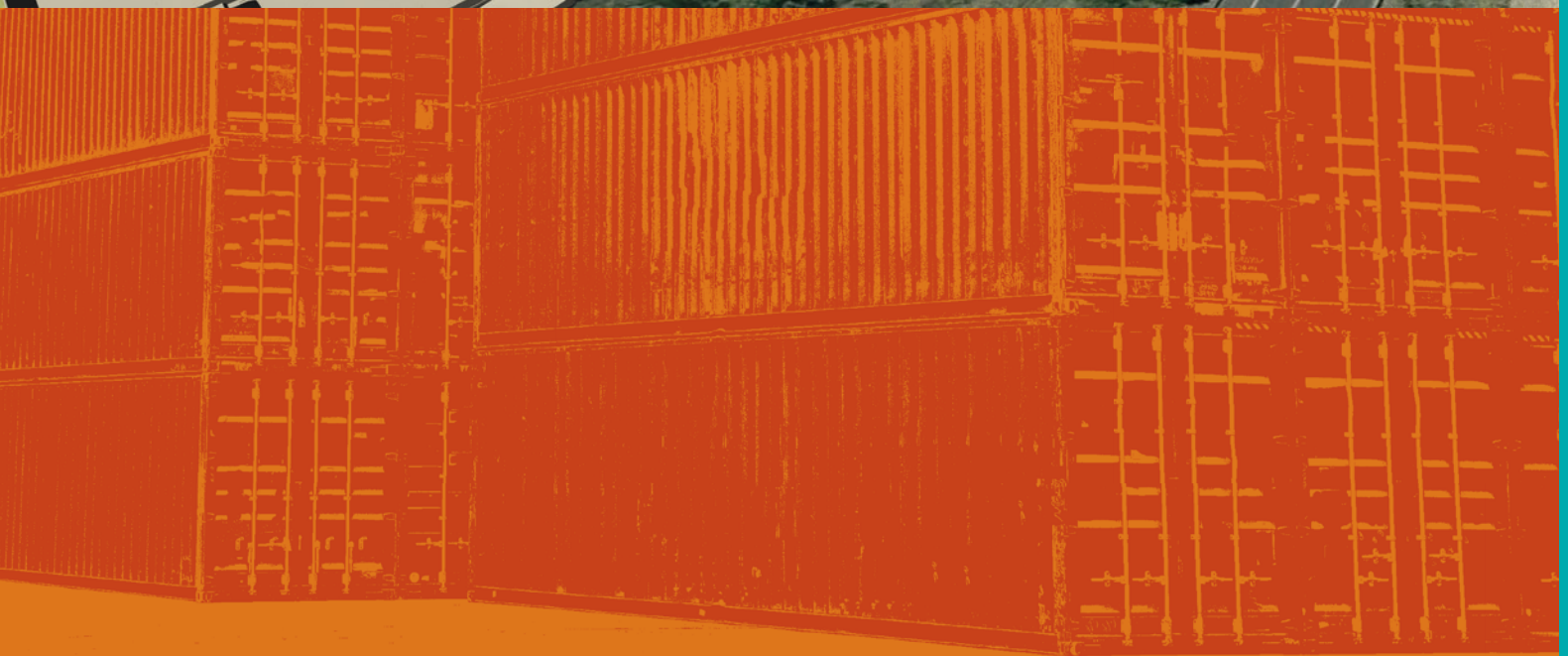


		
CG 0136	CG 0137	CG 0138
		
CG 0139	CG 0140	CG 0141
		
CG 0142	CG 0143	CG 0144
		
CG 0145	CG 0146	CG 0147
		
CG 0148	CG 0149	CG 0150



		
CG 0151	CG 0152	CG 0153
		
CG 0154	CG 0155	CG 0156
		
CG 0157	CG 0158	CG 0159
		
CG 0160	CG 0161	CG 0162
		
CG 0163	CG 0164	CG 0165

Appendix K Cultural Heritage Archival Recordings





9.5 Sample Set of Photographic Prints



Figure 9.6 General view towards commemorative garden from entrance to Defence Community Organisation, looking SW, (image no. CG 0001)



Figure 9.7 General view looking W towards garden area with commemorative features, (image no. CG 0004)



Figure 9.8 Looking N across picnic facilities and towards commemorative section of garden (far right), (image no. CG 0009)



Figure 9.9 Looking E, across SE portion of garden and grounds, (image no.CG 0013)



Figure 9.10 General view from NW end of grounds, looking E, (image no. CG 0019)



Figure 9.11 General view looking SE along northern boundary of grounds, (image no. CG 0020)



Figure 9.12 View looking E, along northern margin of grounds towards building B11 and picnic facilities, (image no. CG 0022)



Figure 9.13 Cypress tree within a stone edged garden bed, located south of B11 building, looking W, (image no. CG 0025)



Figure 9.14 Building B11, former nursery building (Office?), looking SE, (image no. CG 0027)

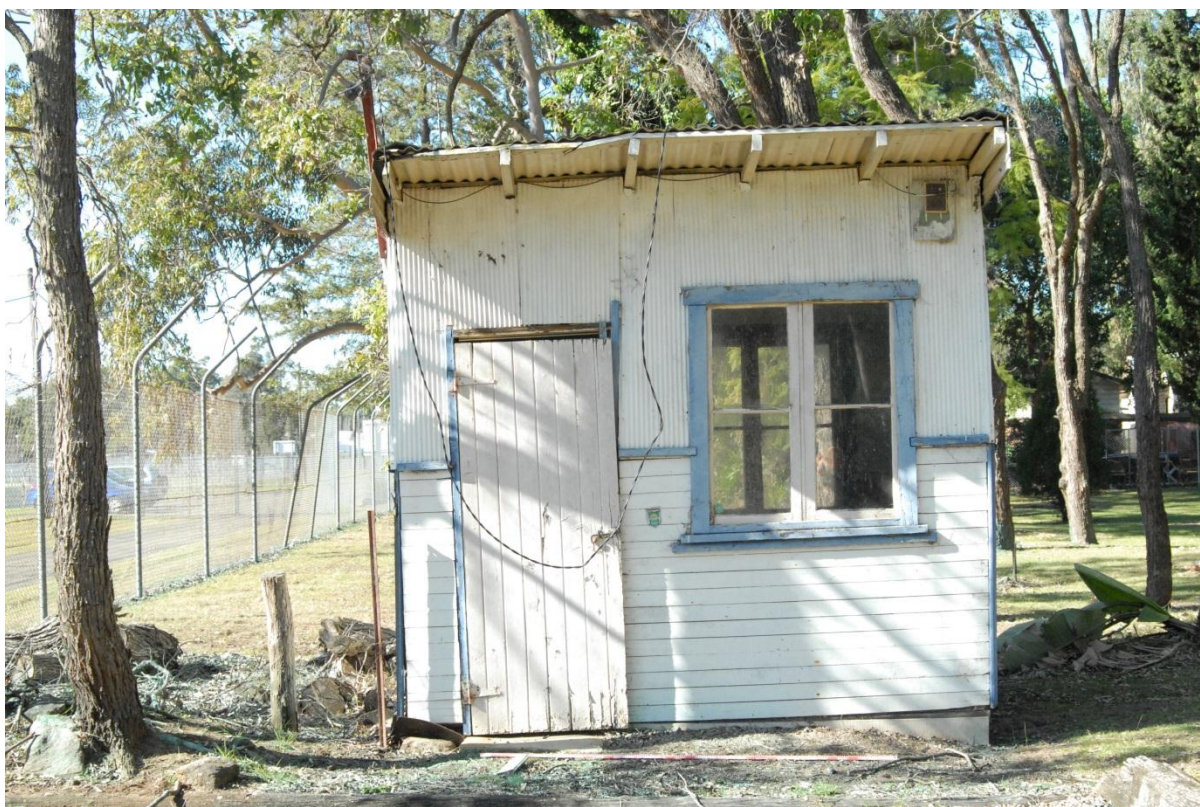


Figure 9.15 Building B11, former nursery building (office?), looking E, (image no. CG 0123)



Figure 9.16 Interior view of B11 building, looking SW, (image no. CG 0135)



Figure 9.17 Detail of northern interior wall in building B11, showing a variety of hand written notes, (image no. CG 0145)



Figure 9.18 General view of commemorative section of garden, looking E, (image no. CG 0037)



Figure 9.19 General view of commemorative section of garden, looking S, (image no. 0040)



Figure 9.20 General view of commemorative section of garden, looking NW, (image no. CG 0043)



Figure 9.21 Looking S across former rock lined nursery pond, now dry and overgrown, (image no. CG 0047)



Figure 9.22 Two commemorative stones, the larger stone contains a plaque documenting the official opening of the Second Military District Nursery in 1978, the smaller stone contains a plaque pictured in Figure 9.25, looking NW, (image no. CG 0052)



Figure 9.23 Detail of plaque documenting the official opening of the Second Military District Nursery by Col. R.S. Deacon A.M., COMD 2MD on 29 August 1978, (image no. CG 0055)



Figure 9.24 Detail of smaller commemorative stone in memory of Jack Darling, which is paired with the larger Nursery opening stone, (image no. CG 0056)



Figure 9.25 Detail of Jack Darling memorial plaque, (image no. CG 0058)



Figure 9.26 General view of commemorative 'Lone Pine' planting and stones, looking SW, (image no. CG 0069)



Figure 9.27 General view of commemorative 'Lone Pine' planting and stones, looking W, (image no. CG 0067)



Figure 9.28 The 'Lone Pine' commemorative stones, looking SE, (image no. CG 0076)



Figure 9.30 Detail of 'Lone Pine' commemorative (standing) stone, looking SW, (image no. CG 0082)



Figure 9.31 Detail of 'Lone Pine' commemorative plaque, (image no. CG 0086)



Figure 9.32 General view of Grodno Winery commemorative rock edged garden bed with large Eucalypt, looking N, (image no. CG 0093)



Figure 9.33 Detail of commemorative rock edging, looking N, (image no. CG 0096)



Figure 9.34 Detail of commemorative rock edging, looking S, (image no. CG 0100)



Figure 9.35 General context of Grodno Winery commemorative plaque, looking N, (image no. CG 0107)



Figure 9.36 General context (side-on view) of Grodno Winery commemorative plaque, looking E, (image no. CG 0112)



Figure 9.37 Detail of Grodno Winery plaque, looking N, (image no. CG 0108)

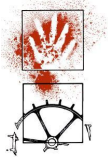
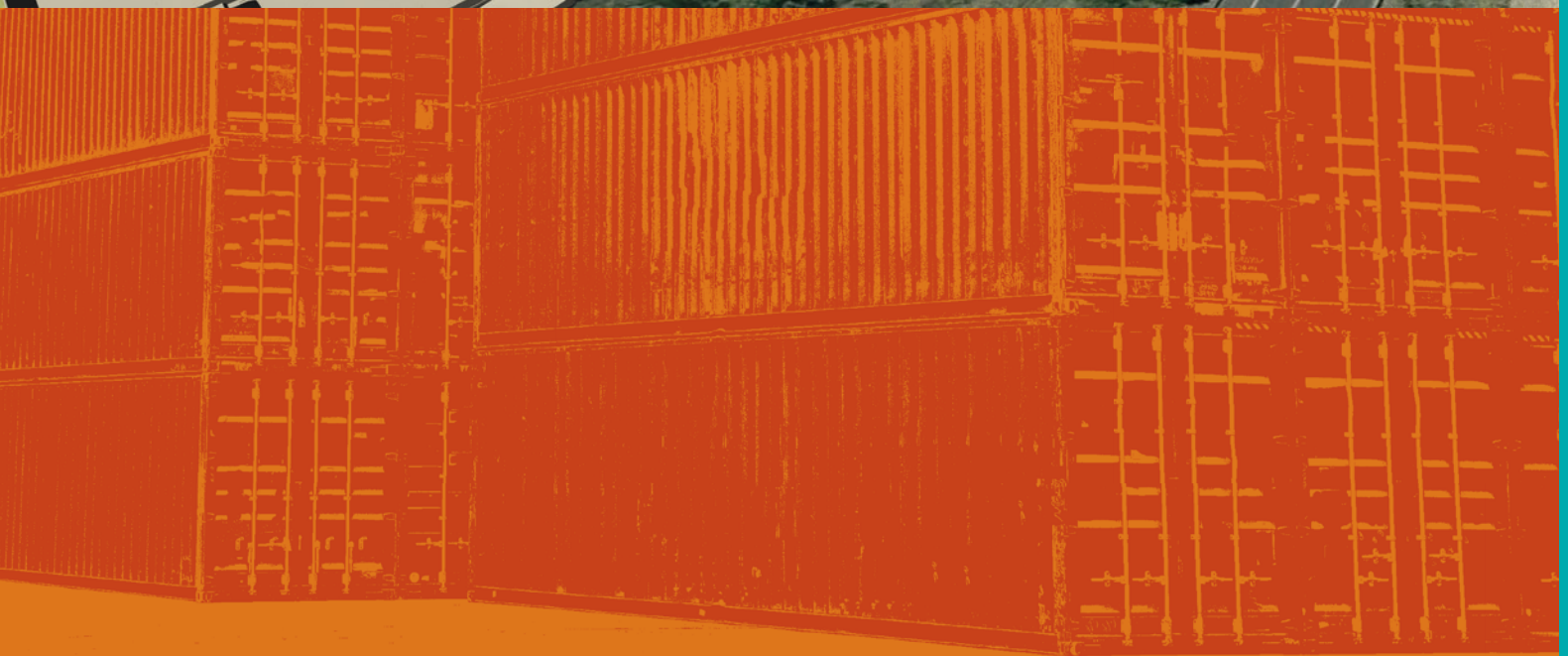


Figure 9.38 Picnic tables situated Se of commemorative section of garden, looking E, (image no. CG 158)



Figure 9.39 Rock lined embankment, being the northern edge of a former pond basin, looking E, (image no. CG 0165)

Appendix K Cultural Heritage Archival Recordings





10. EDD DOG CEMETERY AND MEMORIAL

10.1 Description

Location

This recording consists of the burial places and memorials to past Search and Explosive Detection Dogs in the RAE corps. The recording is divided across two locations:

- A formally laid out cemetery situated on the edge of pocket of remnant native vegetation and immediately adjacent to the dog training area, 100 m to the southeast of the Explosive Detection Dog (EDD) Unit (e.g. Building B125) on Long Hai Road., Long Hai Road

Map Grid Location (MGA): 307981.6241312; and

- A memorial (which also serves a burial ground function), consisting of a standing stone with a plaque and an arrangement of individual headstones, situated between the (EDD) Unit Buildings (nos. 144 and 125)

Map Grid Location (MGA): 307877.6241408.

Historical context

This summary is based on information kindly provided by Major Fred Cox.

The use of search dogs within the RAE corps dates from 1944 when the 1st Australian Dog Platoon RAE was raised. It was disbanded a year later.

In 1952 the Australian Army started training mine dogs and scout dogs at the SME, using methods developed by the British in World War II and Korea. Kennels, classrooms and stores for this original program were located adjacent to the current Dry Bridging Area. The program ended in 1959.

Following success by US Forces with dogs in the Vietnam conflict, dog and handler training at the SME was revived in 1969. The current kennels, and the training area adjacent to the cemetery, date from this revival. In 1971 the Mine Dog Wing was re-established at the SME. Neither dogs nor their handlers were deployed to Vietnam however due to the Australian withdrawal.

Following the end of the Vietnam War the Mine Dog Wing took on a research and development role and implemented a selective breeding program. Although planned for ten generations, the program was suspended in the fourth generation due to the appearance of genetic weaknesses.

Following the Hilton Hotel bombing in Sydney in 1978, the operational focus of search dogs changed to accommodate the civilian community tasks that followed.

In 1981 the RAE no longer trained mine dogs and commenced training EDDs. The training involved the 'active response' method and focused on the detection of improvised explosive devices (IEDs), explosives, weapons and ammunition caches.

The SME EDD capability was decentralised in 1986 to land command engineer units. This was directed towards a focus back to more conventional warfare employment. The following EDD sections were raised: 18th Field Squadron in 1986, 1st Field squadron in 1991, and 7th Field squadron in 1992.

In 1998 the training regime was changed to a 'passive response' method, and the following year this program was enhanced with training attachments to the UK utilising a tennis ball reward system. This methodology continues to be used by the Combat Engineering Wing at the SME to provide EDDs for employment in combat engineer regiments.

SME trained EDDs were used in Operation SOLACE in Somalia in 1993. In 1994 EDDs were deployed in Bougainville on Operation LAGOON as part of the South Pacific peacekeeping force.



More recent deployments of EDD teams have been in East Timor, the Solomon Islands, and in Afghanistan where they supported both conventional and Special Forces.

The Cemetery

The cemetery grounds are currently defined by a gravelled rectangular platform, 21 x 11 m, which is aligned north-south. A rough bush log barrier between standing trees has been erected along the eastern edge of the platform. Eight marked graves can be distinguished, seven along the eastern edge of the platform, facing inward (West), and one on the northern edge facing N. Each evident grave has variously defined borders, using stone cobbles, brick, concrete and wooden elements, and may be surfaced with earth, gravels or paved with brick. Rope and plastic dog toys have been placed on some graves. Three graves contain standing wooden crosses, the names 'Jasmine DM403' and 'Nugget' are each evident on two of the crosses (Figure 5.58). Most of the other graves have loose rectangular headstones in dressed sandstone, variously placed on grave perimeter. Each headstone has the name of the dog engraved upon one surface. It is a tradition that the engraving is executed by the dog's handler and each reflects this individuality in its execution and selection of font(s) (pers. Comm. Major Fred Cox).

This cemetery is thought to have begun as an informal burial ground for dogs since the recommencement of SME dog training during the Vietnam War. However the earliest marked grave is from the early 1990s ('Marcus', situated on the northern edge of the platform). The number, location and arrangement of these suspected unmarked graves are not known. It is thought that some unmarked graves may be private (non-defence force) dog burials, perhaps related to individual EDD handlers. All burial ceremonies are non-military, private affairs and conducted informally (pers. comm. Major Fred Cox).

In parallel with the Afghanistan campaign, the cemetery area was revived round 2006. The gravelled platform and log barrier probably date from this time. All graves within this platform date from between 2006 and 2013. The earlier graves have wooden crosses ('Marcus' early 1990s, 'Nugget', 'Max' 2006 [cross now missing], and 'Jasmine' c.2008), with subsequent graves displaying sandstone headstones.

A number of actively used dog training obstacles and jumps are situated on the northern margin of the cemetery. This integration of the everyday dog activity areas with the cemetery space is likely to be deliberate and symbolic for the EDD unit and staff.

The Memorial

The memorial consists of:

- A large centrally placed natural standing stone of granite (or granodiorite) with an attached engraved polished brass plaque. The plaque faces south and has the following text:

MEMORIAL
Dedicated to All
Past & Present
Search Dogs
and
Handlers

- The standing stone is surrounded by a boundary of roughly dressed sandstones forming a slightly raised bed around the standing stone. The corners are aligned with the cardinal points
- Arranged in an informal manner around the square kerb are ten sandstone headstones, laid flat and flush with the ground surface. Each has a dog's name engraved on the surface, each in an individual manner and font character.
- Around the outside of the south eastern kerb face, arranged approximately radially are five small, roughly dressed low sandstone pedestals, each with an angled top face. Cast metal plaques with raised lettering identifying dogs involved in the Afghanistan campaign have been placed on three of the pedestals.



- A relatively young Peppercorn tree is located 1.5 m to the east.

The Memorial also served as a burial location and predates the revival of the cemetery around 2006. The death dates of the dogs identified on engraved headstones range from 1990/1 ('Rex') to 2006 ('SAM'), and are presumed to have been buried in the vicinity or near/under the stones. An exception is the 'Rafi' headstone (2009), which relates to a marked burial plot identified in the cemetery (pers. comm. Major Fred Cox). One marked burial in the cemetery dates from the early 1990s ('Marcus') and thus dates from this period of interment around the Memorial. The three Afghanistan dog plaques mark overseas deaths in service in 2007 and are cremations. A recent Defence policy now requires all dog remains to be cremated. Previously, cremation had been practised for overseas deaths only. Cremated remains may have been interred in the area of the Memorial or alternatively managed off-site by the dog's handler.

Based on the historical review and the descriptions a rough chronological interrelation between the cemetery and memorial can be proposed:

c.1970 – 1990s	Possible burials within the area of the current cemetery, in unmarked graves, records not kept
1990s – c.2006	Most marked memorials or interments occur around the memorial
c.2006 – 2013	Burials are conducted in the revived cemetery area, all are deaths in Australia. Cremated remains and memorials continue to be placed around the Memorial
2014 –	Burials no longer practiced, replaced by cremations

There is an interesting contrast in the arrangements of the cemetery and Memorial. The cemetery closely follows the configuration of a human burial ground, with aligned rows of individual graves, distinct plot boundaries, and crosses or stones at the 'head' of the graves. In contrast, the Memorial does not define individual plots and presents an informal arrangement of memorial stones around a central standing stone. This may relate to the part-function of the Memorial for the interment of cremated remains, but may also mark the emergence of an original format for the commemoration of the lives of Defence dogs.

Neither the EDD cemetery nor Memorial are included in the MUR brief for the salvage and relocation of heritage items to the new SME location in the Holsworthy Barracks. The EDD unit and staff intend to conduct an internal salvage and relocation program, with the aim of incorporating the headstones and memorial into a new commemorative area at their new headquarters. The initial expectation is to create a linear memorial walk with provision for the chronological addition of memorials. No exhumation of remains is intended.

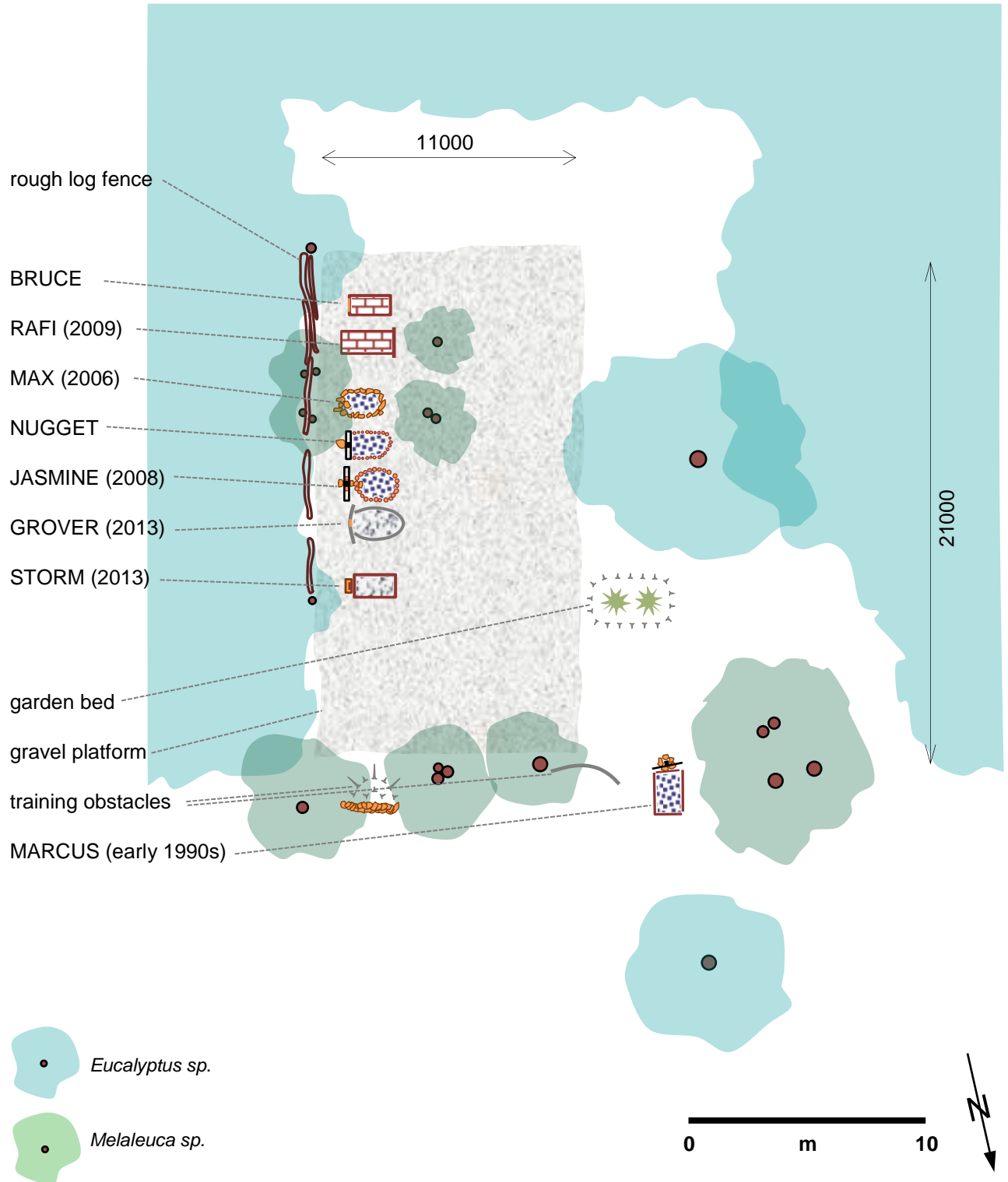


Figure 10.1 Plan of EDD Dog Cemetery

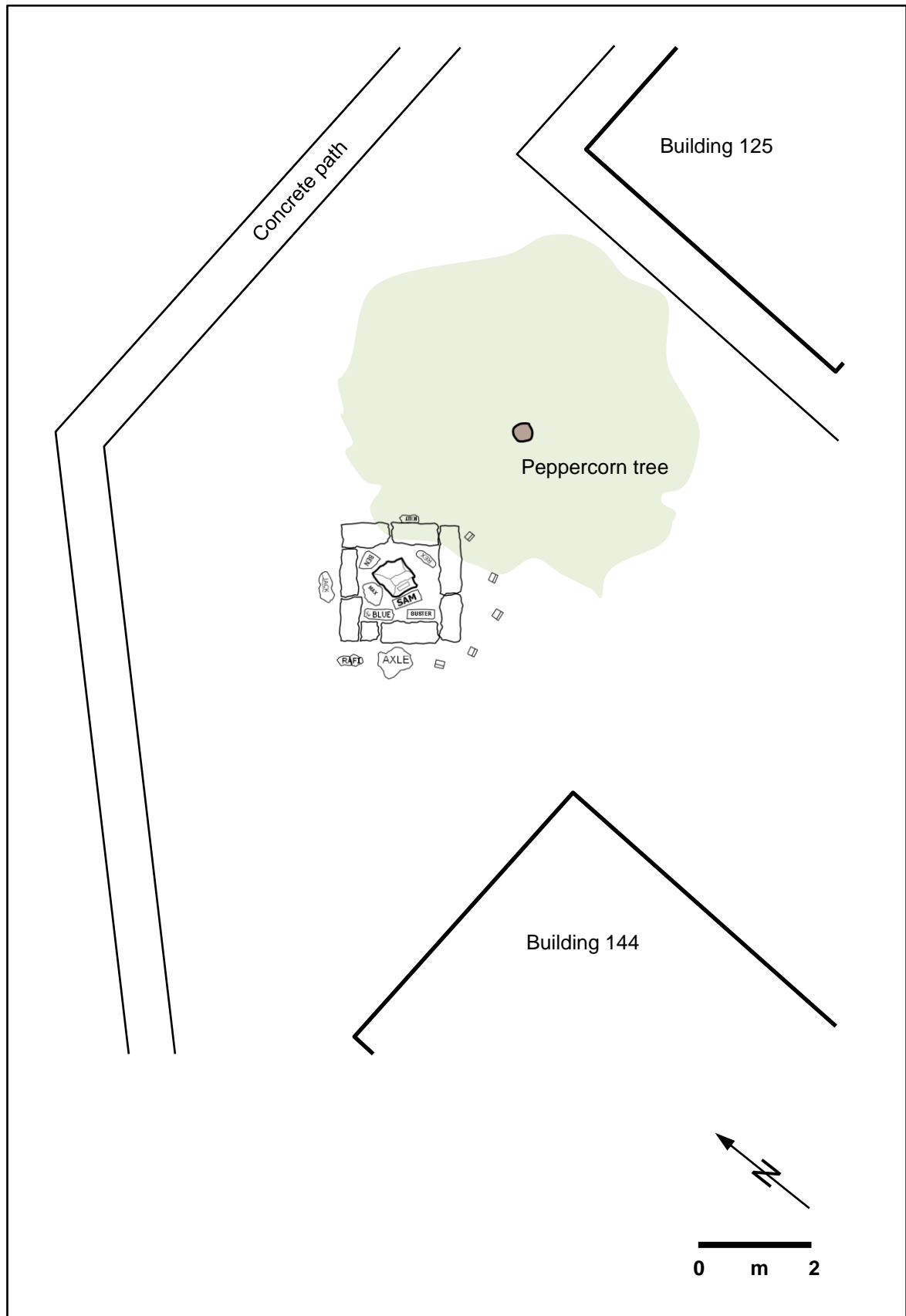
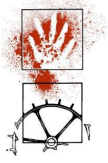


Figure 10.2 General plan of EDD Dog Memorial

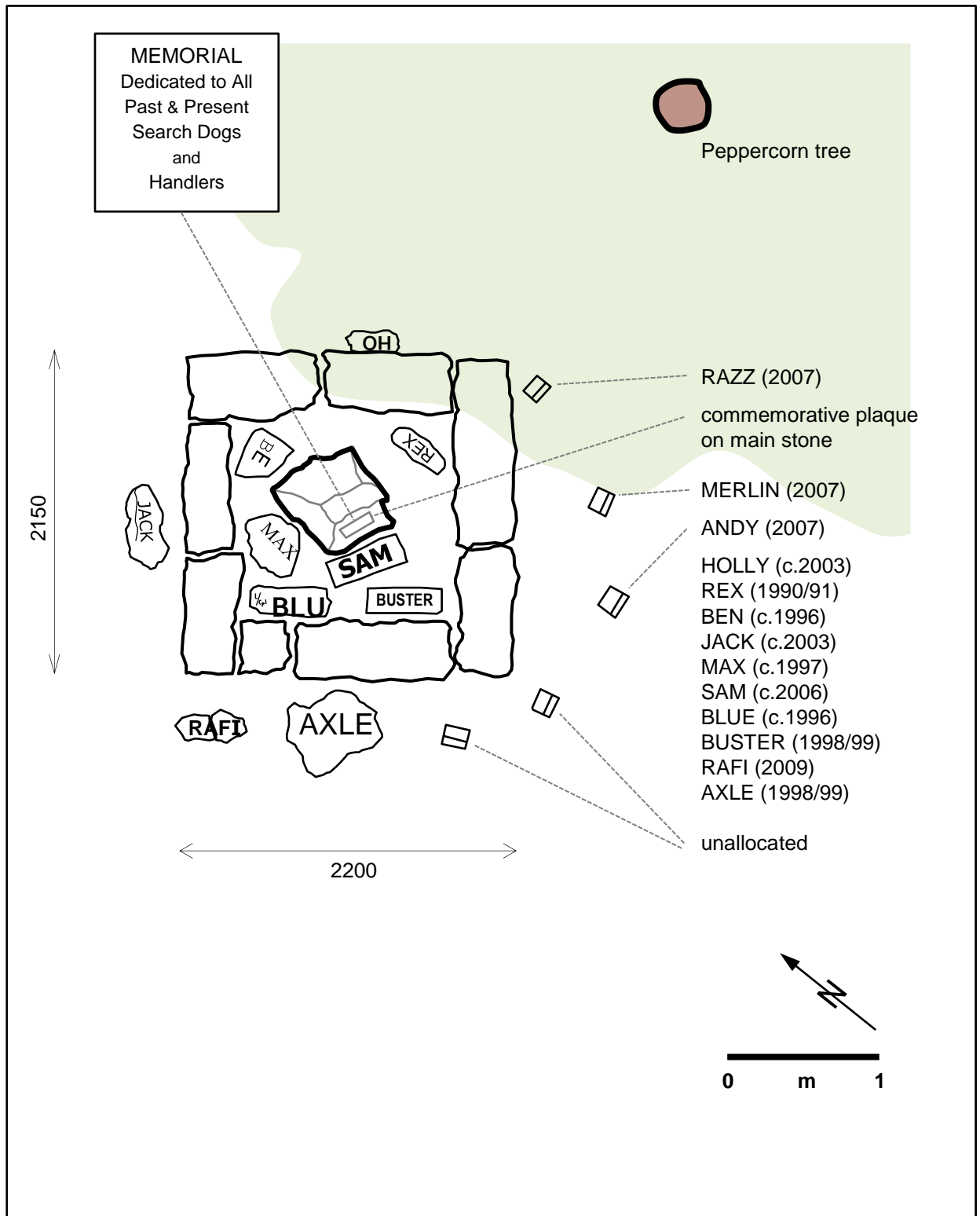
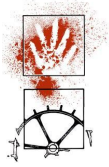
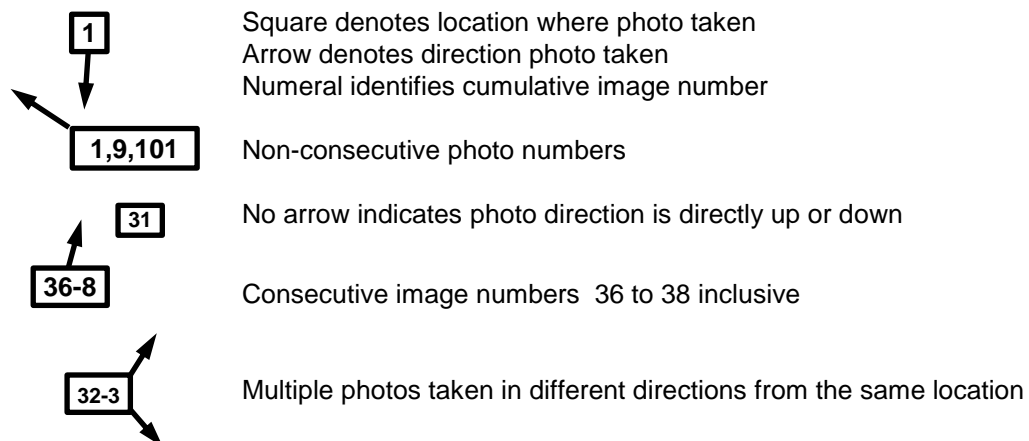


Figure 10.3 Detailed plan of EDD Dog Memorial



10.2 Plans of Photograph Locations

KEY



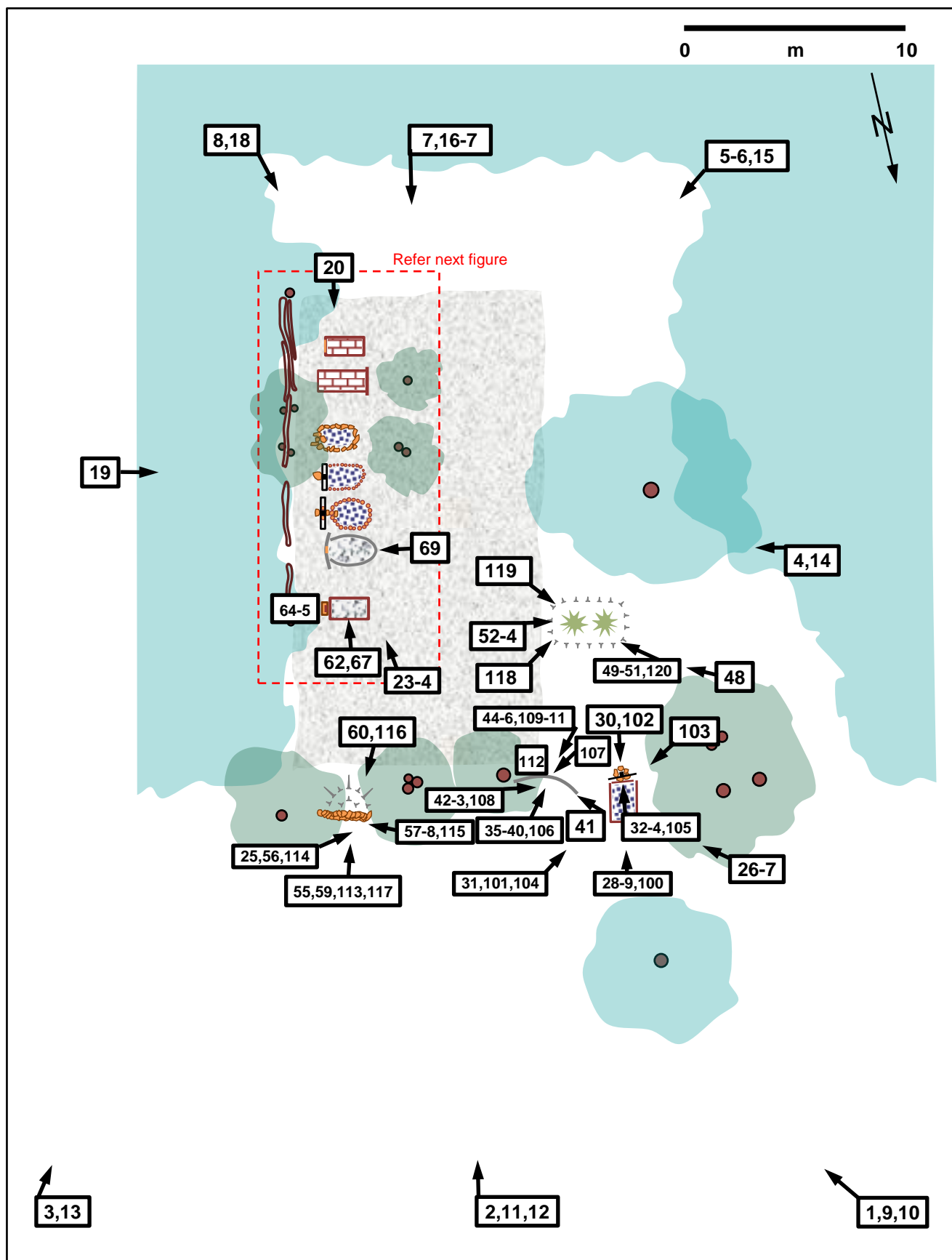


Figure 10.4 General plan of EDD dog cemetery photo locations. All numbers have a 'DC&M' prefix.

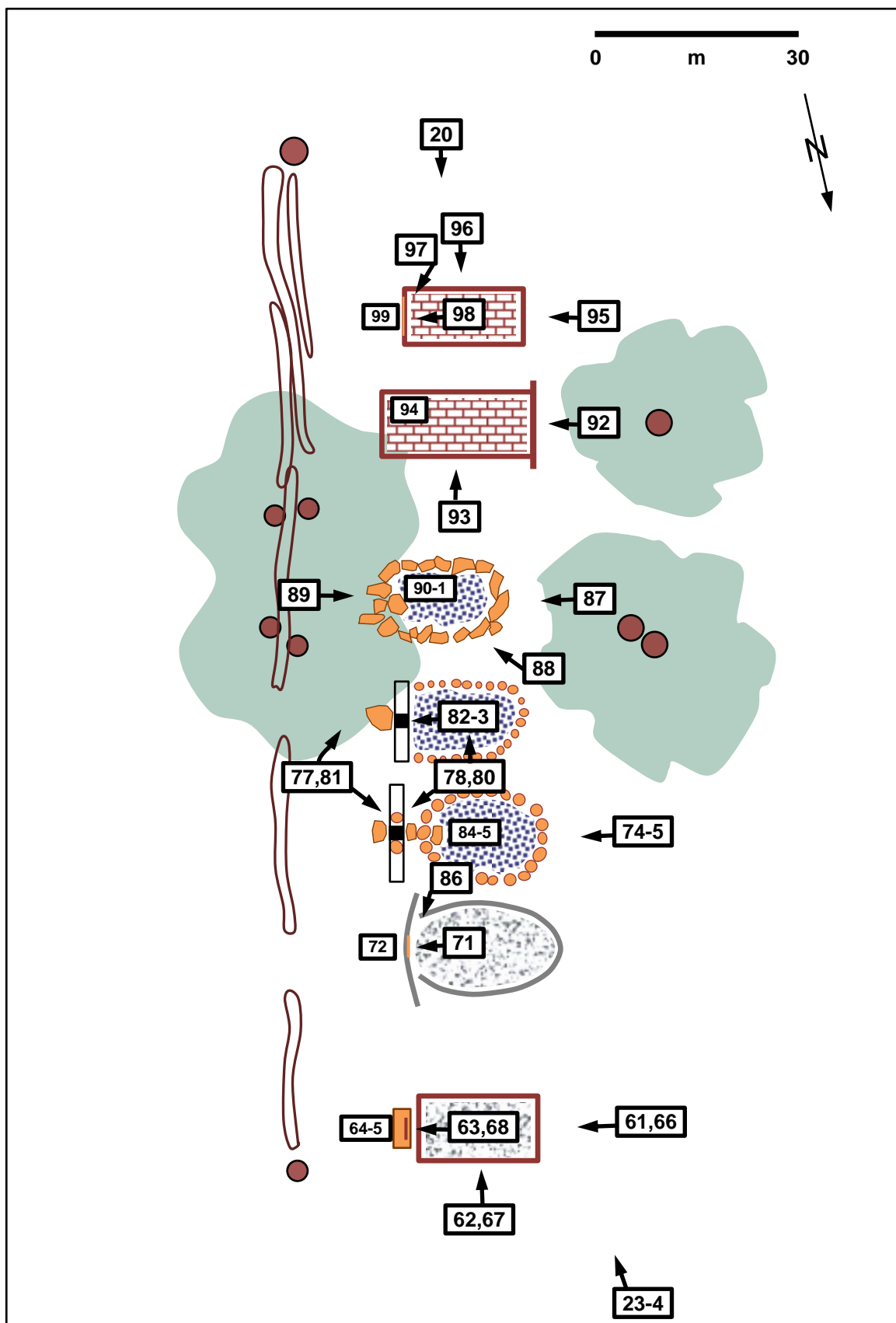


Figure 10.5 Detail plan of EDD dog cemetery photo locations. All numbers have a 'DC&M' prefix.

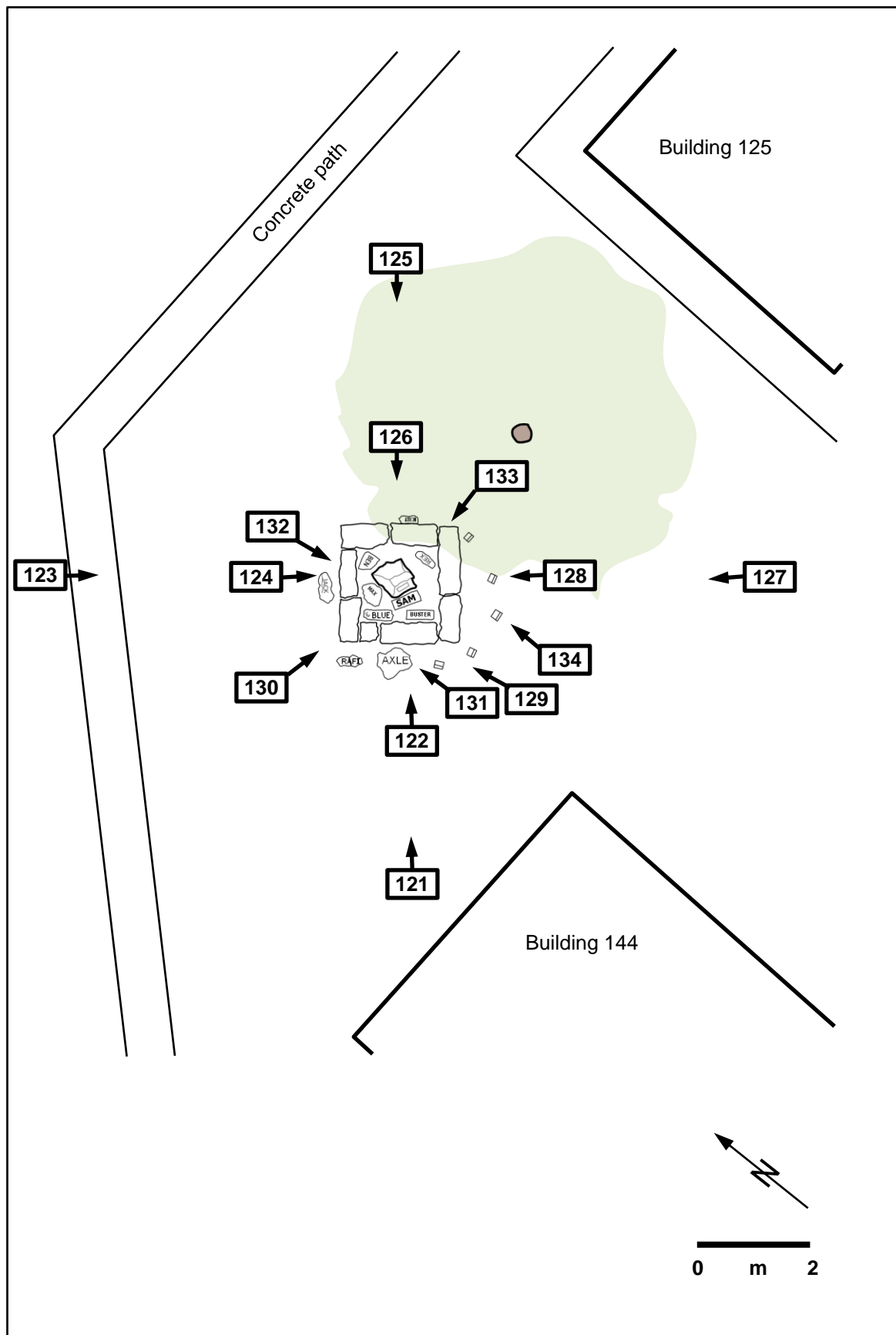


Figure 10.6 General plan of EDD dog memorial photo locations. All numbers have a 'DC&M' prefix.

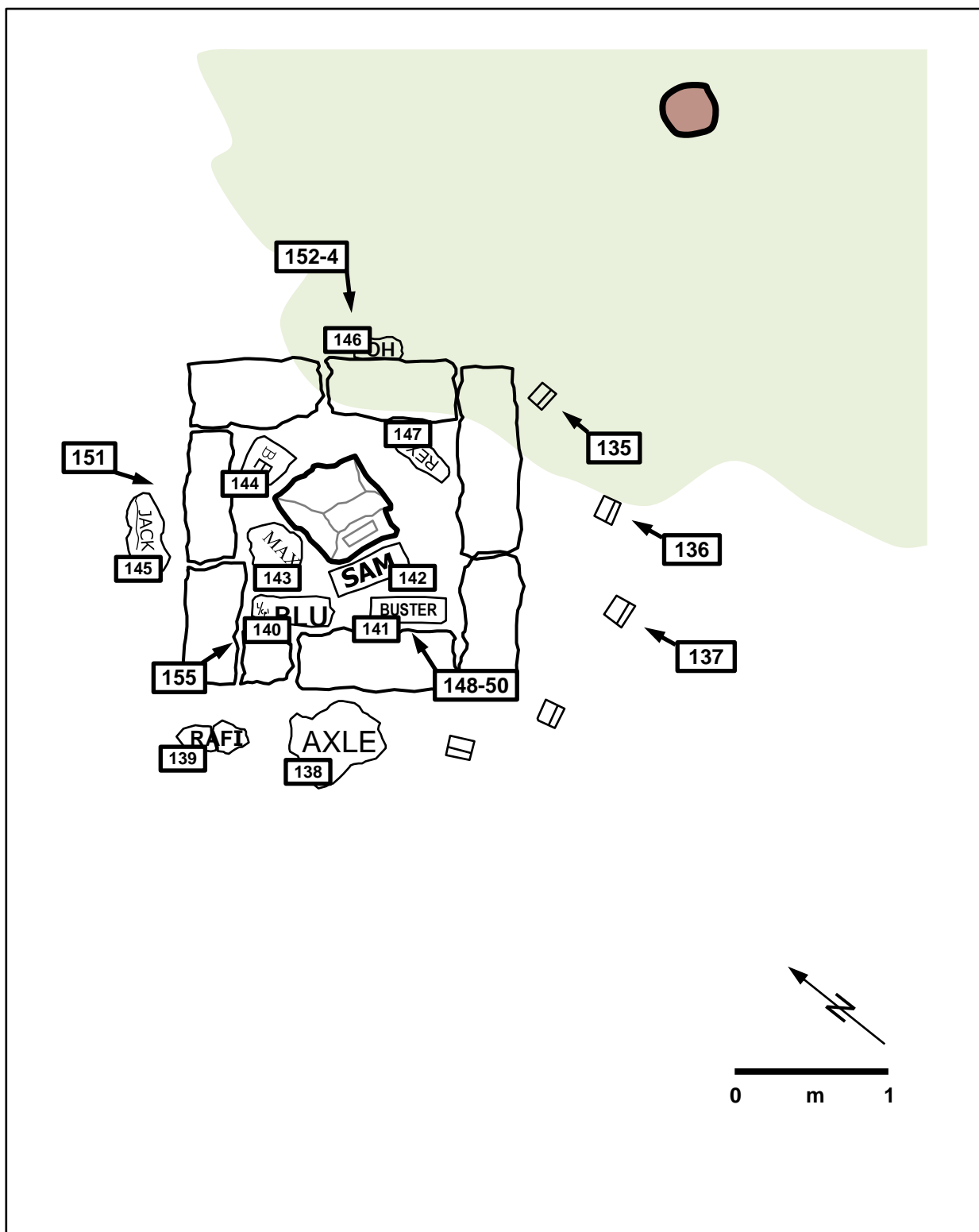
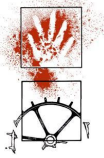


Figure 10.7 Detail plan of EDD dog memorial photo locations. All numbers have a 'DC&M' prefix.



10.3 Digital Image Catalogue

Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0000	000	00-00-00	xxxxxxx	XXX	+/-	✓	000
Cemetery							
0001	166	03-07-14	General view from northwest corner	SE			10
0002	167	03-07-14	General view from north	S	-		10
0003	168	03-07-14	General view	SW			10
0004	169	03-07-14	General view	E	-		10
0005	170	03-07-14	General view	NE	-		10
0006	171	03-07-14	General view	NE			10
0007	172	03-07-14	General view	N	-		10
0008	173	03-07-14	General view	NW	--		10
0009	174	03-07-14	General view from northwest corner (same view/subject as 0001)	SE	+		
0010	175	03-07-14	General view from northwest corner (same view/subject as 0001)	SE			
0011	176	03-07-14	General view from north (same view/subject as 0002)	S			
0012	177	03-07-14	General view from north (same view/subject as 0002)	S	+		
0013	178	03-07-14	General view (same view/subject as 0003)	SW			
0014	179	03-07-14	General view (same view/subject as 0004)	E	-		
0015	180	03-07-14	General view (same view/subject as 0005 & 0006)	NE			
0016	181	03-07-14	General view (same view/subject as 0007)	N			
0017	182	03-07-14	General view (same view/subject as 0007)	N	-		
0018	183	03-07-14	General view (same view/subject as 0008)	NW			
0019	184	03-07-14	General view from northwest	SE			
0020	185	03-07-14	Row of graves from south	N			19
0021	186	03-07-14	Row of graves from east	W	+		11
0022	187	03-07-14	Row of graves from east	W			11
0023	188	03-07-14	Graves from northwest	SE	-		20
0024	189	03-07-14	Graves from northwest	SE			20



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0025	190	03-07-14	Looking across features at north (wall, arc)				20
0026	191	03-07-14	Looking across features at north (grave, arc, wall)				20
0027	192	03-07-14	Looking across features at north (grave, arc, wall)		+		20
0028	193	03-07-14	North grave (Marcus) from north	S			28
0029	194	03-07-14	North grave (Marcus) from north	S	-		28
0030	195	03-07-14	North grave (Marcus) from south	N			28
0031	196	03-07-14	North grave (Marcus) from NE	SW			28
0032	197	03-07-14	Detail of cross on northern grave (Marcus) from north	S	-		28
0033	198	03-07-14	Detail of cross on northern grave (Marcus) from north	S		✓	28
0034	199	03-07-14	Detail of cross on northern grave (Marcus) from north	S			28
0035	200	03-07-14	Concrete block arc from north	S			28
0036	201	03-07-14	Concrete block arc from north	S	+	✓	28
0037	202	03-07-14	Concrete block arc from north	S		✓	28
0038	203	03-07-14	Concrete block arc from north	S			28
0039	204	03-07-14	Concrete block arc from north	S	+		28
0040	205	03-07-14	Concrete block arc from north	S			28
0041	206	03-07-14	Concrete arc from west	E			28
0042	207	03-07-14	Concrete arc from east	W	+		28
0043	208	03-07-14	Concrete arc from east	W			28
0044	209	03-07-14	Concrete arc, horizontal scale	N			28
0045	210	03-07-14	Concrete arc, vertical scale	N	+		28
0046	211	03-07-14	Concrete arc, vertical scale	N			28
0047	212	03-07-14	Location of former arc feature (training jump) from south	N			28
0048	213	03-07-14	Location of former arc feature (training jump) from west	E			28
0049	214	03-07-14	Garden bed from northwest	SE			28
0050	215	03-07-14	Garden bed from northwest	SE		✓	28
0051	216	03-07-14	Garden bed from northwest	SE	-	✓	28



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0052	217	03-07-14	Garden bed from east	W	-		28
0053	218	03-07-14	Garden bed from east	W			28
0054	219	03-07-14	Garden bed from east	W		✓	28
0055	220	03-07-14	Wall at north of site, from north	S			28
0056	221	03-07-14	Wall at north of site, from north	SW			28
0057	222	03-07-14	Wall at north of site, from north	E			28
0058	223	03-07-14	Wall at north of site, from north	E	-		28
0059	224	03-07-14	Wall from north with vertical scale	S			28
0060	225	03-07-14	Wall from south	N			28
0061	226	03-07-14	Storm grave	E			30
0062	227	03-07-14	Storm grave	S			30
0063	228	03-07-14	Detail of Storm headstone	E			30
0064	229	03-07-14	Storm headstone from above				30
0065	230	03-07-14	Detail of Storm headstone from above				30
0066	231	03-07-14	Storm grave	E			30
0067	232	03-07-14	Storm grave	S			30
0068	233	03-07-14	Detail of Storm headstone	E			30
0069	234	03-07-14	Grover grave from west	E			30
0070	235	03-07-14	Grover grave from north	S			30
0071	236	03-07-14	Grover headstone from west	E			30
0072	237	03-07-14	Grover headstone from above				30
0073	238	03-07-14	Grover grave from southeast	NW			30
0074	239	03-07-14	Jasmine grave from west	E			30
0075	240	03-07-14	Jasmine grave from west	E	+		30
0076	241	03-07-14	Jasmine grave from south	N			30
0077	242	03-07-14	Jasmine grave from south	NW			30
0078	243	03-07-14	Detail of Jasmine cross	NE			30



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0079	244	03-07-14	Nugget grave from west	E			30
0080	245	03-07-14	Nugget grave from north	S			30
0081	246	03-07-14	Nugget grave from northeast	SW	+		30
0082	247	03-07-14	Detail of ball on Nugget grave				30
0083	248	03-07-14	Detail of cross on Nugget grave				30
0084	249	03-07-14	Detail of toys on Jasmine grave				30
0085	250	03-07-14	Detail of toys on Jasmine grave				30
0086	251	03-07-14	Detail of ball on Grover's grave				30
0087	252	03-07-14	Max grave (south of Nugget)	E			30
0088	253	03-07-14	Max grave looking southeast	SE			28
0089	254	03-07-14	Max grave looking east	E			35
0090	255	03-07-14	Detail of ball on unmarked (Max) grave, stone		+		25
0091	256	03-07-14	Detail of ball on unmarked (Max) grave, stone, exposure corrected				25
0092	257	03-07-14	Northern brick grave (Rafi) from west	E			25
0093	258	03-07-14	Northern brick grave (Rafi) from north	S			25
0094	259	03-07-14	Detail of ball on unmarked brick grave (Rafi)				25
0095	260	03-07-14	Bruce grave from west	E			
0096	261	03-07-14	Bruce grave from south	N			
0097	262	03-07-14	Detail of ball on Bruce grave, and headstone				
0098	263	03-07-14	Bruce headstone with scale, from west	E			
0099	264	03-07-14	Bruce headstone from above				
0100	265	03-07-14	North grave (Marcus) from north	S			28
0101	266	03-07-14	North grave (Marcus) from northeast	SE			28
0102	267	03-07-14	North grave (Marcus) from south	N			
0103	268	03-07-14	North grave (Marcus)	NE			
0104	269	03-07-14	Detail of cross on north grave (Marcus)				28
0105	270	03-07-14	Detail of cross on north grave (Marcus)				



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0106	271	03-07-14	Concrete block arc from north	S			
0107	272	03-07-14	Concrete arc from west	E			
0108	273	03-07-14	Concrete arc from east	W			
0109	274	03-07-14	Concrete arc with horizontal scale	N			
0110	275	03-07-14	Concrete arc with vertical scale	N			
0111	276	03-07-14	Detail of back of arc, from south	N			
0112	277	03-07-14	Detail of arc from above				
0113	278	03-07-14	Wall at north eastern corner of site, from north	S			28
0114	279	03-07-14	Wall at north eastern corner of site	SW			28
0115	280	03-07-14	Wall at north eastern corner of site	E			28
0116	281	03-07-14	Wall at north eastern corner from south	N			28
0117	282	03-07-14	Wall at north eastern corner from north with vertical scale	S			28
0118	283	03-07-14	Garden bed	S			
0119	284	03-07-14	Garden bed	NW			
0120	285	03-07-14	Garden bed preserved grave from northwest, better light	SE			28
Memorial							
0121	1	04-07-14	General view from southwest	NE			10
0122	2	04-07-14	General view from southwest, closer	NE			10
0123	3	04-07-14	General view looking southeast	SE			
0124	4	04-07-14	General view looking southeast, closer	SE			10
0125	5	04-07-14	General view looking southwest	SW			14
0126	6	04-07-14	General view looking west-southwest, closer	SW			14
0127	7	04-07-14	General view looking northwest	NW			
0128	8	04-07-14	General view looking northwest, closer	NW			
0129	9	04-07-14	General view looking north	N			20
0130	10	04-07-14	Detail of headstones looking southeast	SE			
0131	11	04-07-14	Detail of headstones looking north	N			



Image ID		Date	Subject	Direction looking	Exp. variant	Flash lighting	Lens focal length
Archive no. (prefix: DC&M)	Field no.						
0132	12	04-07-14	Detail of headstones looking south	S			
0133	13	04-07-14	Detail of headstones looking west	W			
0134	14	04-07-14	Recent Afghanistan stones looking north	N			
0135	15	04-07-14	Detail of recent stones working from east to west (Razz)				
0136	16	04-07-14	Detail of recent stones working from east to west (Merlin)				
0137	17	04-07-14	Detail of recent stones working from east to west (Andy)				
0138	18	04-07-14	Detail of Axel headstone,				
0139	19	04-07-14	Detail of Rafi headstone				
0140	20	04-07-14	Detail of Blue headstone				
0141	21	04-07-14	Detail of Buster headstone				
0142	22	04-07-14	Detail of Sam headstone				
0143	23	04-07-14	Detail of Max headstone				
0144	24	04-07-14	Detail of Ben headstone				
0145	25	04-07-14	Detail of Jack headstone				
0146	26	04-07-14	Detail of Holly headstone				
0147	27	04-07-14	Detail of Rex headstone				
0148	28	04-07-14	Commemorative stone and plaque	N			
0149	29	04-07-14	Detail of plaque	N			
0150	30	04-07-14	Commemorative stone and plaque	N		✓	
0151	31	04-07-14	North western face of commemorative stone	SE			
0152	32	04-07-14	North eastern face of commemorative stone	SW			
0153	33	04-07-14	North eastern face of commemorative stone	SW		✓	
0154	34	04-07-14	North eastern face of commemorative stone	SW		✓	
0155	35	04-07-14	Detail of stones on east side of commemorative stone	E			



10.4 Photographic Thumbnail Compendium



		
DC&M 0001	DC&M 0002	DC&M 0003
		
DC&M 0004	DC&M 0005	DC&M 0006
		
DC&M 0007	DC&M 0008	DC&M 0009
		
DC&M 0010	DC&M 0011	DC&M 0012
		
DC&M 0013	DC&M 0014	DC&M 0015



		
DC&M 0016	DC&M 0017	DC&M 0018
		
DC&M 0019	DC&M 0020	DC&M 0021
		
DC&M 0022	DC&M 0023	DC&M 0024
		
DC&M 0025	DC&M 0026	DC&M 0027
		
DC&M 0028	DC&M 0029	DC&M 0030



		
DC&M 0031	DC&M 0032	DC&M 0033
		
DC&M 0034	DC&M 0035	DC&M 0036
		
DC&M 0037	DC&M 0038	DC&M 0039
		
DC&M 0040	DC&M 0041	DC&M 0042
		
DC&M 0043	DC&M 0044	DC&M 0045





		
DC&M 0046	DC&M 0047	DC&M 0048
		
DC&M 0049	DC&M 0050	DC&M 0051
		
DC&M 0052	DC&M 0053	DC&M 0054
		
DC&M 0055	DC&M 0056	DC&M 0057
		
DC&M 0058	DC&M 0059	DC&M 0060



		
DC&M 0061	DC&M 0062	DC&M 0063
		
DC&M 0064	DC&M 0065	DC&M 0066
		
DC&M 0067	DC&M 0068	DC&M 0069
		
DC&M 0070	DC&M 0071	DC&M 0072
		
DC&M 0073	DC&M 0074	DC&M 0075



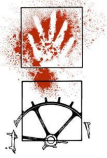
		
DC&M 0076	DC&M 0077	DC&M 0078
		
DC&M 0079	DC&M 0080	DC&M 0081
		
DC&M 0082	DC&M 0083	DC&M 0084
		
DC&M 0085	DC&M 0086	DC&M 0087
		
DC&M 0088	DC&M 0089	DC&M 0090


















		
DC&M 0091	DC&M 0092	DC&M 0093
		
DC&M 0094	DC&M 0095	DC&M 0096
		
DC&M 0097	DC&M 0098	DC&M 0099
		
DC&M 0100	DC&M 0101	DC&M 0102
		
DC&M 0103	DC&M 0104	DC&M 0105



		
DC&M 0106	DC&M 0107	DC&M 0108
		
DC&M 0109	DC&M 0110	DC&M 0111
		
DC&M 0112	DC&M 0113	DC&M 0114
		
DC&M 0115	DC&M 0116	DC&M 0117
		
DC&M 0118	DC&M 0119	DC&M 0120



		
DC&M 0121	DC&M 0122	DC&M 0123
		
DC&M 0124	DC&M 0125	DC&M 0126
		
DC&M 0127	DC&M 0128	DC&M 0129
		
DC&M 0130	DC&M 0131	DC&M 0132
		
DC&M 0133	DC&M 0134	DC&M 0135



		
DC&M 0136	DC&M 0137	DC&M 0138
		
DC&M 0139	DC&M 0140	DC&M 0141
		
DC&M 0142	DC&M 0143	DC&M 0144
		
DC&M 0145	DC&M 0146	DC&M 0147
		
DC&M 0148	DC&M 0149	DC&M 0150



		
DC&M 0151	DC&M 0152	DC&M 0153
		
DC&M 0154	DC&M 0155	

Appendix K Cultural Heritage Archival Recordings





10.5 Sample Set of Photographic Prints



Figure 10.8 General view of cemetery, looking SE, (Image no. DC&M 0001)



Figure 10.9 General view of cemetery, looking N, (Image no. DC&M 0016)



Figure 10.10 General view of graves along eastern edge of cemetery, looking N, (Image no. DC&M 0020)



Figure 10.11 General view of cemetery, looking SE from north western grave, (Image no. DC&M 0026)



Figure 10.12 Grave of Storm, looking E, (Image no. DC&M 0061)



Figure 10.13 Looking S across graves along eastern edge of cemetery, (Image no. DC&M 0067)



Figure 10.14 Grave of Grover, looking E, (Image no. DC&M 0069)



Figure 10.15 Detail of Grover headstone, looking E, (Image no. DC&M 0071)

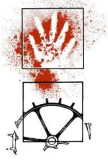


Figure 10.16 Grave of Grover, looking NW, (Image no. DC&M 0073)



Figure 10.17 Grave of Jasmine, looking E, (Image no. DC&M 0075)



Figure 10.18 Grave of Nugget, looking E, (Image no. DC&M 0079)



Figure 10.19 View across southern graves along eastern edge of cemetery, looking S, (Image no. DC&M 0080)



Figure 10.20 Detail of toys on Jasmine grave, (Image no. DC&M 0085)



Figure 10.21 Grave of Max, looking SE, (Image no. DC&M 0088)



Figure 10.22 Detail of ball on grave of Max, (Image no. DC&M 0091)



Figure 10.23 The southernmost graves, looking N, (Image no. DC&M 0096)



Figure 10.24 Grave of Rafi, looking E, (Image no. DC&M 0092)



Figure 10.25 Grave of Bruce, looking E, (Image no. DC&M 0095)



Figure 10.26 Rectangular garden bed, on western edge of cemetery, looking NW, (Image no. DC&M 0119)



Figure 10.27 Grave of Marcus at NW corner of cemetery, looking S, (Image no. DC&M 0100)



Figure 10.28 Grave of Marcus, looking N, (Image no. DC&M 0102)



Figure 10.29 Detail of cross on Marcus grave, looking SW, (Image no. DC&M 0105)



Figure 10.30 General view of memorial, looking NE, (Image no. DC&M 0121)



Figure 10.31 South western section of memorial, looking NE, (Image no. DC&M 0122)



Figure 10.32 General view of memorial, looking SW, (Image no. DC&M 0125)



Figure 10.33 North eastern section of memorial, looking SW, (Image no. DC&M 0126)



Figure 10.34 Detail of headstones in south western section of memorial, looking NE, (Image no. DC&M 0131)



Figure 10.35 Detail of headstones in eastern section of memorial, looking W, (Image no. DC&M 0131)



Figure 10.36 Detail of three upright headstones with plaques on SE side of memorial, looking N, (Image no. DC&M 0134)



Figure 10.37 Detail of plaque on headstone for Razz, (Image no. DC&M 0135)



Figure 10.38 Detail of plaque on headstone for Merlin, (Image no. DC&M 0136)



Figure 10.39 Detail of headstone for L_{CP} Blue, (Image no. DC&M 0140)



Figure 10.40 Detail of headstone for Buster, (Image no. DC&M 0141)



Figure 10.41 Detail of headstone for Axle, (Image no. DC&M 0138)



Figure 10.42 Detail of headstone for Jack, (Image no. DC&M 0145)



Figure 10.43 Memorial stone and commemorative plaque, looking N, (Image no. DC&M 0148)



Figure 10.44 Detail of plaque on memorial stone, (Image no. DC&M 0149)



Figure 10.45 Northern face of memorial stone, looking S, (Image no. DC&M 0151)



Figure 10.46 Eastern face of memorial stone, looking SW, (Image no. DC&M 0154)



11. REFERENCES

- Bermagui Constructions Pty Ltd Mar 2012 SWS 1938 – Demolition of Moorebank Area Buildings Photographic Archival Record. Prepared for Brookfield Multiplex Services for Department of Defence, Defence Support Group.
- Commonwealth Department of Finance and Deregulation (CDFD) Feb 2012 *Moorebank Intermodal Terminal Project, Detailed Business Case*, Prepared by KPMG and Parsons Brinckerhoff, Sydney.
- ERM 2013 Moorebank Unit Relocation (MUR) Project: Steele Barracks, NSW Heritage Impact Assessment. A report to Point Project Management on behalf of the Department of Defence.
- Google Earth Pro Website 2014 (version 7.1.2.2014, server: kh.google.com)
- Graham Brooks and Associates Pty Ltd 2004 Moorebank Defence Site, Moorebank. Heritage Assessment. Report to Department of Defence Property Disposals Task Force.
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- Navin Officer Heritage Consultants 2014a Moorebank Intermodal Terminal; Aboriginal Heritage Assessment. Report to Parsons Brinckerhoff on behalf of Department of Finance and Deregulation.
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- Navin Officer Heritage Consultants 2014c Moorebank Intermodal Terminal; European Heritage Assessment. Report to Parsons Brinckerhoff on behalf of Department of Finance and Deregulation.
- NSW Heritage Office and Department of Urban Affairs and Planning 1996 *NSW Heritage Manual*. NSW Heritage Office and Department of Urban Affairs and Planning, Sydney.
- NSW Heritage Office 2000 *Assessing Heritage Significance*. Update for NSW Heritage Manual, (Final Approved Text August 2000). NSW Heritage Office, Sydney.
- NSW Heritage Office 2006 Photographic Recording of Heritage Items Using Film or Digital Capture, Heritage Information Series. Prepared by Lawrie Greenup.
- Parsons Brinckerhoff 2014 Strach Hanger and CUST Hut Condition Inspection Report. Report to Moorebank Intermodal Company Ltd, Document no. 2189293H-STR-REP-01 Rev 1: 10 Oct 2014.



12. DATA STORAGE

Contents

1 x USB Flash Drive (attached)

Included files:

Digital image folders:

- 2014-07-03 CG containing files: CG 1 to 165 (both .jpg and .nef)
- 2014-07-03 DC&M containing files: DC&M 1 to 120 (both .jpg and .nef)
- 2014-07-04 DC&M containing files: DC&M 121 to 155 (both .jpg and .nef)
- 2014-07-04 STRARCH containing files: STRARCH 0001 to 0093 (both .jpg and .nef)
- 2014-07-08 B99 containing files: B99 0001 to 165 (both .jpg and .nef)
- 2014-07-09 B99 containing files: B99 0166 to 0240 (both .jpg and .nef)
- 2014-07-09 CUST containing files: CUST to 0195 0186 (both .jpg and .nef)
- 2014-07-10 B99 containing files: B99 0241 to 0329 (both .jpg and .nef)
- 2014-07-10 CUST containing files: CUST 0001 to 0046 (both .jpg and .nef)
- 2014-07-11 CUST containing files: CUST 0047 to 0185 (both .jpg and .nef)
- 2014-07-11 G&L containing files: G&L 0001 to 0174 (both .jpg and .nef)
- 2014-07-24 B99 containing files: B99 0330 to 0338 (both .jpg and .nef)
- 2014-07-24 G&L containing files: G&L 0175 to 0312 (both .jpg and .nef)

Documents (refer Section 6.1 of this report)

- This document (.pdf)
- Strarch Hgr Manual_Compln Report_Footg Design Calcs_SME Review.pdf
RAAF Assembly/Erection Manual 1993
User Manual (64 pages plus Appendices) - issued by Strarch International Limited, dated May 1993 (supersedes version dated November 1990) titled "Royal Australian Air Force – Assembly/Erection Manual)
STRARCH Hanger Completion Report 4-29 Oct 1991 RAAF Base Learmonth (including a photographic supplement)
SME Construction Wing Strarch Hangar (15pp) foundation design structural calculations dated 27 March 2008 by Captain K Reynolds
8 Construction Engineer Regiment calculations "Foundation Design Check for Strarch Hangar at SME" (11 pp) dated 23 May 2008 by Lt. Johnson
- 930528 Strarch Hanger Design Drawings.pdf
A set of 80 design drawings including a Cover Sheet and Drawing Index of 79 engineering drawings titled "RAAF Strarch Re-deployable Shelter (30x32m) issued by Strarch International Limited all dated 28 May 1993

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