



Harbour Control Tower Demolition Works

Demolition Work Plan

Prepared by
Liberty Industrial Pty Ltd
for
Barangaroo Delivery Authority

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00	15.02.2016	TS	First Issue
01	23.02.2016	TS	Addition of site plan, update 1.
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Specialist Deconstruction Services

- Industrial deconstruction contractors ■ Mine closure consulting ■ 3D Modelling
 - Deconstruction consultants ■ Asbestos abatement
- Liberty Industrial Pty Ltd A.B.N. 99 147 758 487



TABLE OF CONTENTS

1	PURPOSE	5
2	SCOPE	5
3	REFERENCES	5
4	SITE LOCATION	6
4.1	GENERAL DESCRIPTION OF THE SITE.....	7
4.1.1	<i>Cutaway Level</i>	<i>7</i>
4.1.2	<i>Merriman St Level.....</i>	<i>9</i>
5	GENERAL SCOPE OF WORK	11
6	ASBESTOS	11
7	GENERAL DEMOLITION TECHNIQUES	11
8	PLANNING	11
8.1	PROJECT SUPERVISION	12
8.2	SITE INVESTIGATION	12
8.3	MANAGEMENT PLANS.....	12
8.4	WEATHER.....	13
8.5	SITE ACCESS	13
8.6	STRUCTURAL DETAILS	13
8.6.1	<i>Height of the structure.....</i>	<i>13</i>
8.6.2	<i>Distance from the structures to the site boundary</i>	<i>13</i>
8.6.3	<i>Services.....</i>	<i>14</i>
8.7	HOURS OF WORK.....	14
9	UNDERSTANDING OF SPECIFIC PROBLEMS	14
10	SITE ORGANISATION	15
10.1	PERIMETER FENCING	15
10.2	DEMOLITION CONTROL ZONE.....	15
10.3	BARRICADE AND SIGNS.....	15
10.4	MATERIALS PROCESSING AREA	15
10.5	FIRST AID	15
10.6	SITE AMENITIES.....	15
11	DEMOLITION METHODOLOGY	16

11.1	DEMOLITION SEQUENCING	16
11.1.1	<i>Site Establishment</i>	16
11.1.2	<i>Preparation Works to facilitate the Installation of the Platform System</i>	16
11.1.3	<i>Installation of the XL Platform System and Alimak Hoist</i>	16
11.1.4	<i>Phase #1 Demolition</i>	17
11.1.5	<i>Phase #2 Demolition</i>	17
11.1.6	<i>Phase #3 Demolition</i>	18
	<i>Phase #4 Demolition</i>	18
11.1.7	<i>Core Footing</i>	19
11.1.8	<i>Concrete and Landscaping Works</i>	19
11.2	STRUCTURAL ENGINEERING REQUIREMENTS.....	19
11.3	MAJOR PLANT & EQUIPMENT	19
11.4	XL PLATFORM.....	19
11.5	TRANSPORTATION	20
11.6	RECYCLING AND WASTE MANAGEMENT	20
11.7	REGULATORY AUTHORITY NOTIFICATION.....	21
11.8	SAFETY AND ENVIRONMENTAL RISK CONTROL.....	21
11.8.1	<i>Demolition Risk Assessment Workshop</i>	21
11.8.2	<i>Protective Measures</i>	21
11.8.3	<i>Emergency Response</i>	22
11.9	DAILY CHECK ITEMS	22
11.9.1	<i>Before Commencing</i>	22
11.9.2	<i>Before Leaving Site.....</i>	22
12	ASEBSTOS	22
13	NOISE CONTROL.....	22
14	CLIENT INSTRUCTIONS.....	23
15	COMPLAINTS	23
16	PROGRAMME.....	23
17	SITE INDUCTIONS	23
18	AUTHORITY TO WORK (PERMIT TO WORK).....	23
19	TRAINING	24
20	WORK AREA INSPECTIONS.....	24

21 HEALTH AND SAFETY SYSTEM 24

22 ECOLOGICAL SUSTAINABILITY DEVELOPMENT 24

 22.1 GREEN PROCUREMENT AND ENERGY & WATER EFFICIENCY 24

 22.2 WASTE AND RECYCLING 25

 22.3 EFFICIENCY IN RESOURCE AND MATERIAL USE..... 25

 22.4 MONITORING AND REPORTING 25

23 COMMUNICATION PROTOCOL 25

APPENDIX A – ORGANISATIONAL CHART 26

1 PURPOSE

This Liberty Industrial (the company) Work Plan has been designed to provide the necessary methodologies and procedures for the Harbour Control Tower Demolition Works at 1 Merriman Street, Barangaroo, NSW 2000.

The demolition method presented in this Demolition Work Plan (DWP) was selected by the Barangaroo Delivery Authority as it provided better solutions to key risks than the method described in the Evans & Peck report "Proposed Removal of Sydney Harbour Control Tower - Demolition Review".

The method in this report provides better outcomes with respect to:

- Noise pollution;
- Air pollution;
- Traffic impacts;
- Safety; and
- Public amenity, including usability of Barangaroo Reserve and Merriman St.

2 SCOPE

The scope of this management plan is to document the process in undertaking the demolition project including the removal of asbestos containing material without injuries, environmental incidents or community actions and in accordance with AS2601.

3 REFERENCES

- Safework NSW Demolition Licensing;
- Safework NSW Friable Asbestos Licensing;
- Work, Health and Safety Act 2011;
- Work, Health and Safety Regulation 2011;
- Demolition Work Code of Practice;
- AS 2601 The Demolition of Structures;
- AS 4361.2 Guide to Lead Paint Management;
- AS 3000 SAA Wiring Rules;
- AS ISO 14004 - 2004-11-15: Environmental management systems - General guidelines on principles, systems and support techniques;
- AS/NZS ISO 14001:2004: Environmental management systems - Requirements with guidance for use;
- AS/NZS ISO 19011:2003 Australian/New Zealand Standard Guidelines for quality and/or environmental management systems auditing
- Environmental Protection Authority publication Environmental Guidelines for Major Construction Sites (1996)
- AS 1885.1 – 1990: Workplace injury and disease recording standard;

- AS/NZS 4801 - 2001: Occupational Health and Safety Management Systems - Specification with Guidance for use;
- How to Safely Remove Asbestos Code of Practice;
- AS/NZS ISO 9001:1994: Quality systems - Model for quality assurance in production, installation and servicing;
- AS/NZS 4581 - 1999: Management System Integration – Guidance to Business, Government and Community Organisations;
- AS/NZS 4804 - 2001: Occupational Health and Safety Management Systems - General guidelines on principles, systems and supporting techniques;
- National Code of Practice for Excavation Work;
- Asbestos Blueprint for NSW;
- Fire Brigades Act 1989;
- Local Government Act 1993;
- AS 2865 – 2009 Confined Spaces;
- AS 1319 Safety Signs for the Occupational Environment;

4 SITE LOCATION

Harbour Control Tower (HCT) Demolition Works at Merriman Street, Millers Point NSW, 2000. It is located adjacent the Barangaroo Headland Reserve.

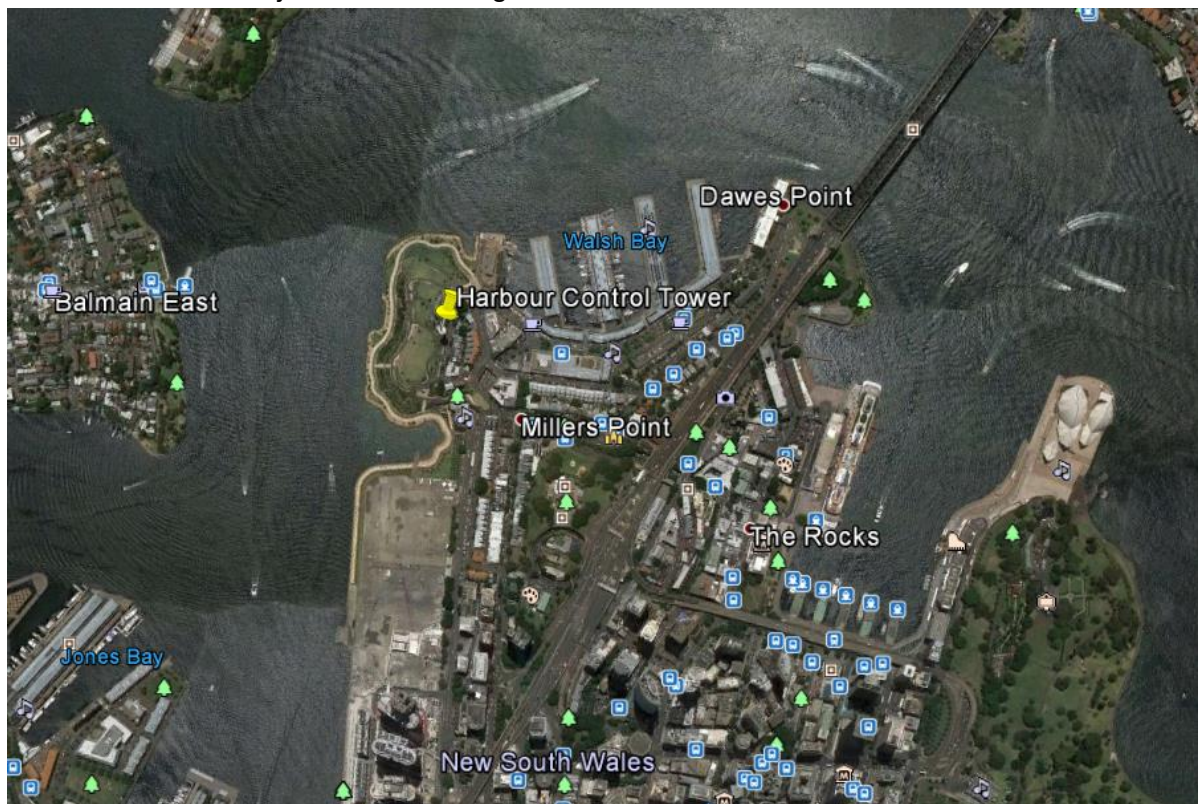


Figure 1 - Location of the Harbour Control Tower

4.1 GENERAL DESCRIPTION OF THE SITE

The site principally consists of an area approximately 26m x 31m at the Cutaway Level and the Merriman St level. The Harbour Control Tower sits on its foundations at the Cutaway Level and protrudes through an opening in the Cutaway Ceiling at the Merriman St Level and extend from there.

4.1.1 Cutaway Level

At the Cutaway level, a floor to ceiling hoarding (scaffold with plywood covering) will be erected around the site to prevent any dust or demolition materials escaping into the Cutaway. A detailed site survey will be completed prior to demolition works being undertaken – see Figure 2.1 and 2.2 below.

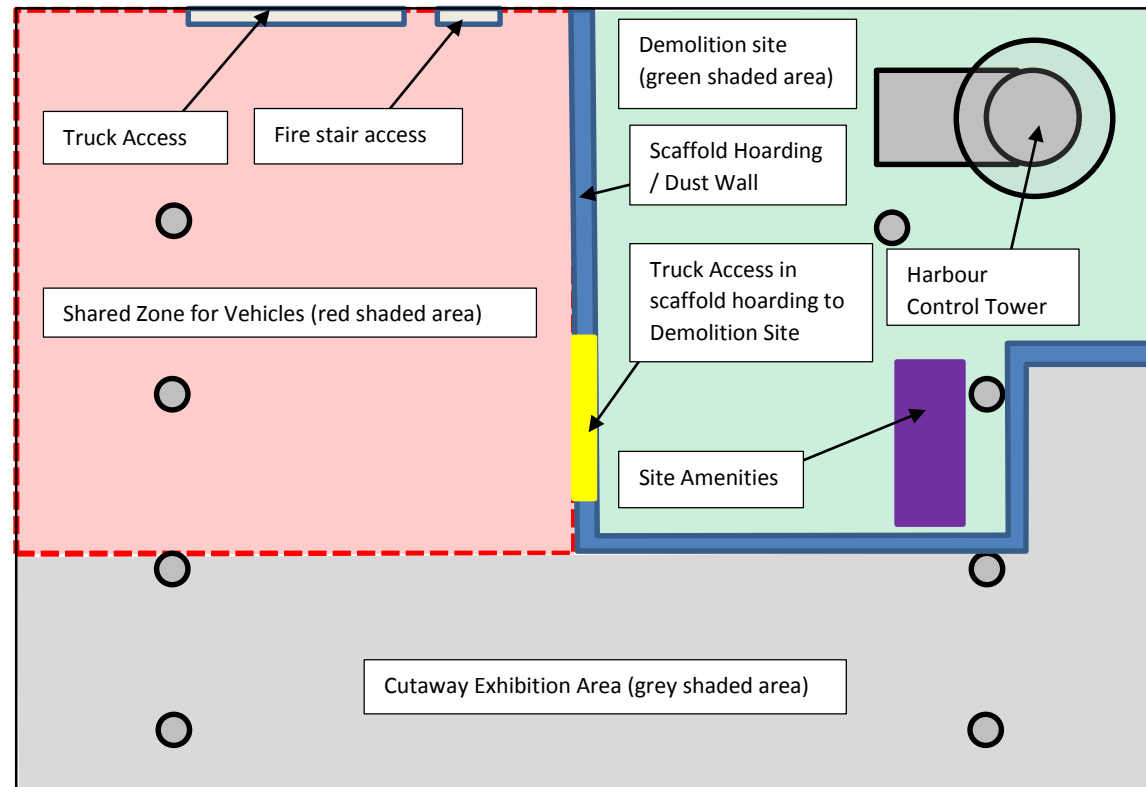


Figure 2.1 - Site Layout Cutaway Level



Figure 2.2 - Site Layout Cutaway Level

4.1.2 Merriman St Level

At Merriman St Level, a demolition work zone is established with a combination of A-Class/B-Class Hoarding (red line/blue shaded area) along the Merriman St footpath and temporary panel fencing (black dotted line) in Clyne Reserve and Barangaroo Reserve – see Figure 3 on next page.

An A-Class Hoarding (red line) is established along the Merriman St during initial installation of the steel support structure of the XL Platform and is replaced by a B-Class Hoarding (blue shaded area) once the platform installation reaches 2m above street level.

Temporary fencing personnel gates are placed for Emergency Access/Egress and personnel access/egress (aqua line) which are kept secured at all times throughout the project.

Throughout the works (namely the XL Platform works), pending access requirements either 16t City Crane working from Barangaroo Reserve or a 55t mobile crane working from Merriman St will be utilised (Crane Hoisting Permit or Full Road Closure required), with transport vehicles parking in the Tuck Unloading Area (lime shaded area) which is established under either a full road closure (55t mobile crane) or Crane Hoisting Permit (16t City Crane).

To accommodate the 16t City Crane, a vehicle crossover (red shaded area) is constructed in the footpath on Merriman St to facilitate the access of the crane onto Barangaroo Reserve (pink shaded area), with a an A-Class access gate (yellow line) for the crane installed.

During use of the 55t mobile crane (brown shaded area), a Full Road Closure will be in place.

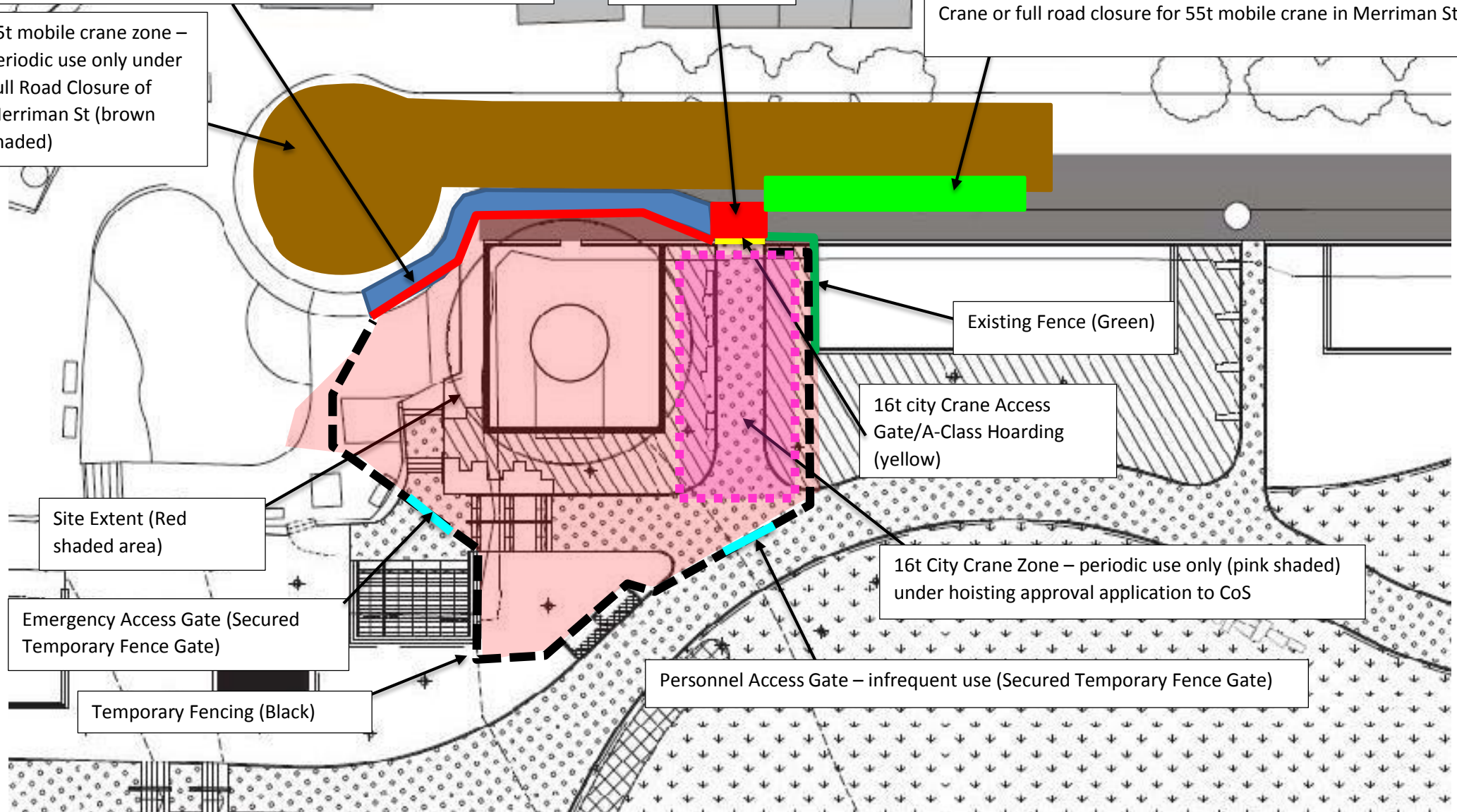
A-Class Hoarding 26/4/16 to 14/5/16 (Red)

B-Class Hoarding over footpath 14/5/16 to 1/10/16 (Blue shaded)

55t mobile crane zone –
periodic use only under
Full Road Closure of
Merriman St (brown
Shaded)

Vehicle Crossover
(red area)

Truck Unloading Area – 4 x Car Spaces taken during crane
usage (periodic) to unload trucks (lime shaded area) –
covered under hoisting approval application for 16t City
Crane or full road closure for 55t mobile crane in Merriman St



Existing Fence (Green)

16t city Crane Access
Gate/A-Class Hoarding
(yellow)

Site Extent (Red
shaded area)

Emergency Access Gate (Secured
Temporary Fence Gate)

Temporary Fencing (Black)

16t City Crane Zone – periodic use only (pink shaded)
under hoisting approval application to CoS

Personnel Access Gate – infrequent use (Secured Temporary Fence Gate)

Figure 3.1 - Site Layout Merriman Street Level

5 GENERAL SCOPE OF WORK

The Scope of Work includes the following:

- Demolition of the Harbour Control Tower.
- Demolition of the footing of the HCT.
- Pouring of a new slab in The Cutaway.
- Landscaping works and making good.

6 ASBESTOS

The company will undertake the asbestos removal work pursuant to the “How to Safety Remove Asbestos Code of Practice”

All asbestos identified will be removed prior to structural demolition as per Clause 452 of the Work Health and Safety Regulation 2011.

See Asbestos Removal Control Plan under separate cover.

Ref Asbestos Removal Control Plan

7 GENERAL DEMOLITION TECHNIQUES

The undertakings will be conducted using the company Work Permit system. This includes but not limited to the following:

- WMS's
- JHA's
- Hot Work Permit
- Excavation Permit
- SDS's

The above form part of the “work pack” which will be issued by the supervisor prior to any work taking place on the project. The supervisor during the course of the day shall visit each task and assure him/herself that the work is being undertaken as per the Work Permit.

The methodology will be transcribed into the company WMS.

The majority of demolition will be carried out by either hand tools to strip out and demolish the control room and remote control Brokk excavators to pulverise the concrete core.

8 PLANNING

An investigation of the structures has been undertaken by the company. Set out below are itemised actions that will be implemented during the course of the project.

8.1 PROJECT SUPERVISION

At all times during the demolition works, the demolition will be supervised by a competent supervisor attached to and approved by Safework Authority NSW demolition licence.

In addition to the Demolition Supervisor, an experienced Demolition Project Manager will be on site regularly ensuring the works are being undertaken as planned.

Name	Position	Contact Details
Todd Solomon	Senior Project Manager	0488 288 221
Ryan Kinney	Safework NSW Approved Demolition Supervisor (Unrestricted)	0487 811 481
Robert Golf	Safework NSW Approved Demolition Supervisor (Unrestricted)	TBA

Please see Attachment B for a detailed Organisational Chart.

8.2 SITE INVESTIGATION

The Harbour Control Tower (HCT) structure to be demolished primarily consists of a concrete core containing an elevator shaft and steel access stairs. The control roof consists of light steelwork and cladding. The base of the HCT is a thick, heavily reinforced slab.

An investigation of the site has been completed with the following key points noted:

- The location and extent of items to be demolished have been clearly identified;
- The site has access to potable water;
- All electrical services will be disconnected prior to demolition works;
- The site does not contain UST's, basements & cellars;
- Surrounding buildings to be retained have been identified;
- The location of adjacent roadways and operational areas has been clearly defined; and
- The general conditions of pavements that may be impacted by the deconstruction works have been recorded;

8.3 MANAGEMENT PLANS

- Work Health and Safety Management Plan;
- Environmental Management Plan;
- Quality Management Plan;
- Traffic Management Plan;
- Industrial Relations Management Plan;

- Asbestos Control Plan;
- Emergency Management Plan;
- Waste Management Plan;
- Detailed Demolition Program (Gantt chart);
- Demolition Risk Assessment Workshop (DRAW);
- Site Induction.
- Air Quality Management Plan (JBS&G)
- Deconstruction Works Noise and Vibration Assessment (Acoustic Logic)

8.4 WEATHER

The climatic conditions that may affect the worker(s) and the project will be monitored and recorded. These climatic conditions may have an impact on the methods during commencement.

Precautions will be taken to ensure that the stability of all parts of the structure and the safety of worker(s) on site will be maintained in the event of a sudden and severe change in weather.

In the event the wind reaches levels where the work is deemed to be unsafe (either crane lifts or asbestos removal works), or when the debris cannot be effectively contained or captured, the work area is made safe, and all work shall cease, as directed by the Project Manager or Demolition Supervisor.

8.5 SITE ACCESS

Access to the site for vehicles required to be in the demolition work zone in the Cutaway level (waste transport trucks, etc.) will be through the loading dock in the Cutaway area.

Access via Merriman Street will be required during the construction and repositioning of the XL Platform. Occasional access for mobile cranes will be required on Merriman Street throughout the demolition project.

8.6 STRUCTURAL DETAILS

8.6.1 *Height of the structure*

The height of the structure is 87 meters high from the base.

8.6.2 *Distance from the structures to the site boundary*

The HCT is in close proximity to surrounding structures and as such a method has been adopted so that the structure does not collapse. The method required a controlled and gradual demolition of the structure.

The closest structures are 16 meters to the east of the HCT and include residential apartments.

8.6.3 Services

All site services will be effectively isolated with a clear air gap prior to demolition works being undertaken by Liberty Industrial via a qualified tradesman. The site amenities will be powered by a generator wired up to AS construction wiring code.

8.7 HOURS OF WORK

The hours of work from Monday to Friday will be from 7am to 6pm.

The hours of work on Saturday will be from 8am to 5pm dependent upon approval from the client.

9 UNDERSTANDING OF SPECIFIC PROBLEMS

The following table details specific issues that may arise during the course of the works and proposed solutions:

#	Identified Problem	Proposed Solution
1	Public concerns	- Refer public contact to the client - Induct worker(s) into protocol
2	Traffic Interaction	- Project Planning - Site Specific Traffic Management Plan - Induct worker(s) into protocol - Ensure Traffic Control Plan is in place
3	Working at heights	- Project Planning - Induct worker(s) into WAH procedure - Working at height permits required prior to works commencing
4	Working in a constricted area	- Project Planning - Housekeeping - Progressive waste removal
5	Media attention	- Refer media inquiries to the client - Induct worker(s) into protocol
6	Public and client concern over air/noise contamination,	- Undertake air monitoring in accordance with Environmental Management Plan - Undertake noise monitoring in accordance with Environmental Management Plan

10 SITE ORGANISATION

10.1 PERIMETER FENCING

The Liberty Industrial work area inside this overall site will be defined using temporary panel fencing in conjunction with the existing site fencing and A or B-class hording.

10.2 DEMOLITION CONTROL ZONE

The perimeter of the defined deconstruction zone will be fenced and sign posted to prevent unauthorised access. Only worker(s) who have been inducted with the authority of the Project Manager may enter the site.

10.3 BARRICADE AND SIGNS

Work areas will be barricaded and signposted to define the area and prevent access. Any hazardous materials identified will also be barricaded and signposted.

10.4 MATERIALS PROCESSING AREA

A materials processing area will be set up within the fenced perimeter. The exact location will vary dependant on the location of the particular item of infrastructure being demolished at any given time. This will be identified in the Daily Pre-Start meetings.

10.5 FIRST AID

A certified first aider shall be on site full time during the works to administer first aid in the event of an incident and to participate in any emergency evacuation drill.

10.6 SITE AMENITIES

The site amenities and office will be powered by a generator.

The amenities will be maintained in a clean and hygienic manner during the course of the project.

11 DEMOLITION METHODOLOGY

The following is the general information surrounding the development of the site specific WMSs being prepared under separate cover which detail the steps required to safely undertake the task.

Note: A “Work Pack” along with the Work Permit will be issued prior to commencement of any activity.

11.1 DEMOLITION SEQUENCING

The general staging and sequencing of the works is outlined below:

11.1.1 Site Establishment

In this stage of works preliminary activities such as setting up the work zone, Mobilising plant and establish amenities will be completed.

11.1.2 Preparation Works to facilitate the Installation of the Platform System

In this stage of works a grillage will be built to hold the XL platform. Service will be disconnected and the plant room will be demolished.

A demolition chute will also be created at this stage of the works. The elevator lift car will be brought to the ground level before power is shut off. The car will then be removed through a hole which is saw-cut in the tower wall. The stairs will be progressively removed once the platform is in place.

A chute will be fabricated in-situ once the stairs and lift car are removed.

11.1.3 Installation of the XL Platform System and Alimak Hoist

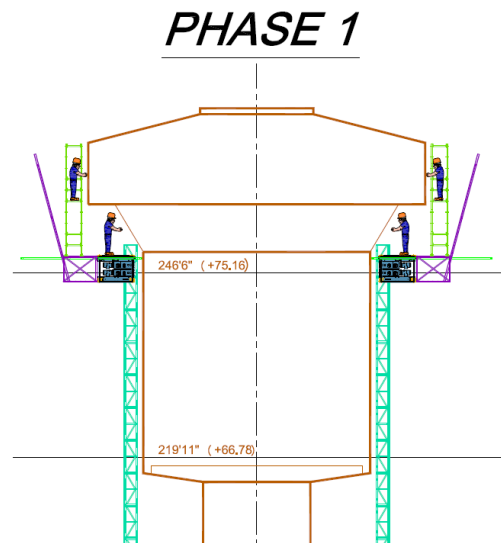
Pending access requirements for the item being installed, either a 16t City Crane working from Barangaroo Reserve (Crane Hoisting Application) or a 55t mobile crane working from Merriman St (Full Road Closure) in the areas identified in Figure 3 above will be used to install the XL Platform.

The platform will be installed in as large sections as possible to minimise the amount of time cranes will be used. Cranes will lift into place the masts then use a man-box to install tie-ins to the structure. The platform will then be installed in sections and fixed to the masts. A materials hoist will be installed to carry workers and materials from the platform to the ground.

11.1.4 Phase #1 Demolition

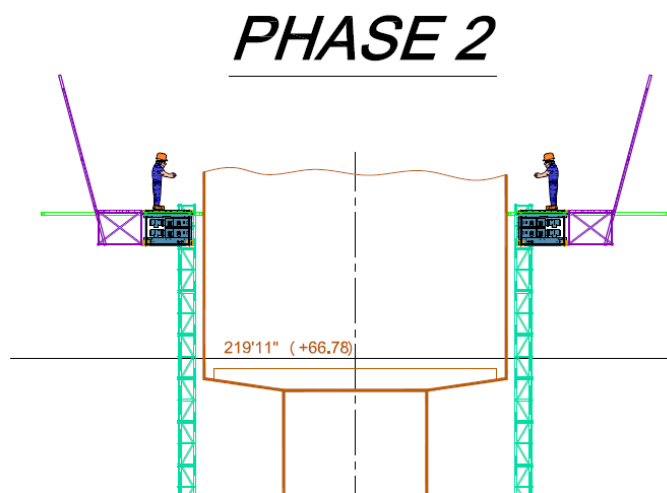
Once the XL Platform is in place the roof will begin to be demolished by demolition workers using hand tools. The glass will be removed by using glass-suckers and lowering to the floor before cleanly breaking it and removing. A mobile scaffold will be used to support the half-trusses before cutting and lowering for removal.

The demolition waste will be cut into small sections and will be removed via the Alimak to the Merriman Street level, then lowered through a shoot to the basement.



11.1.5 Phase #2 Demolition

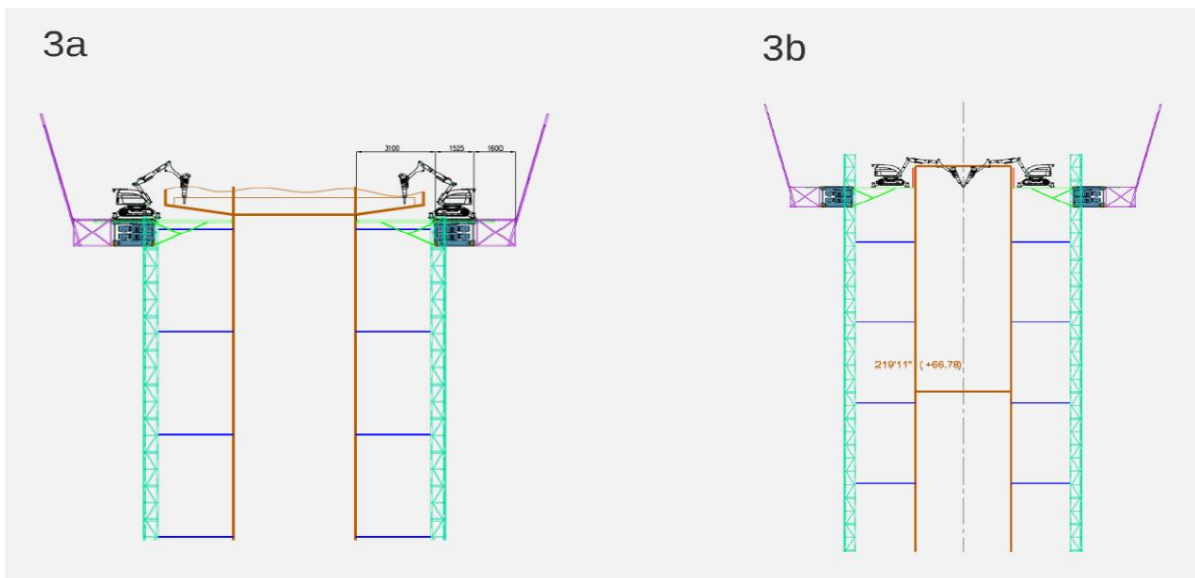
In Phase 2 of the works the control room will be demolished by demolition workers using hand tools. The demolition waste will be cut into small sections and will be removed via the Alimak to the Merriman Street level, then lowered through a shoot to the basement.



11.1.6 Phase #3 Demolition

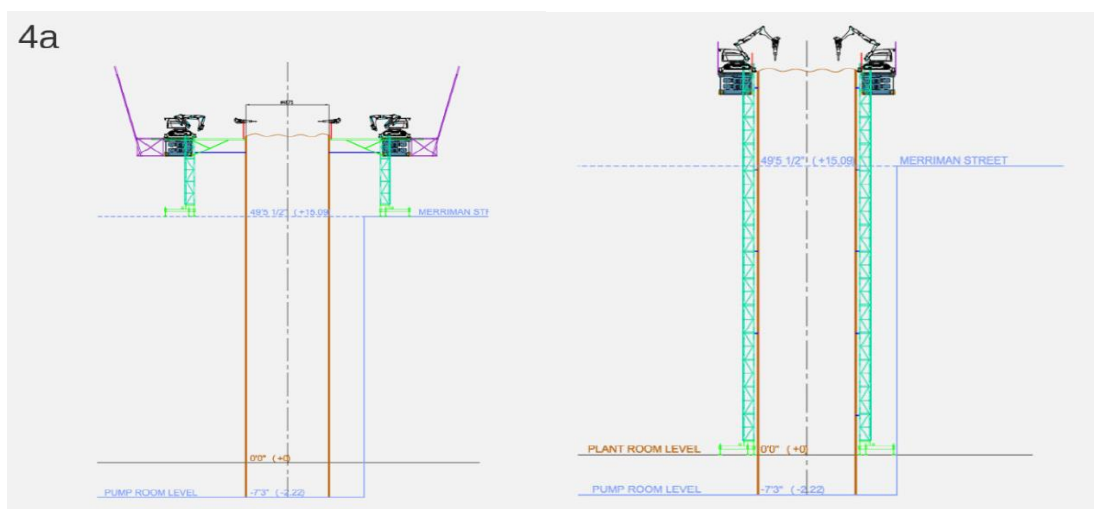
Demolition robots will then be craned onto the platform where they will proceed to demolish the concrete of the tower. Brokk excavators with hydraulic pulveriser attachments will be used to crush the beams in the control room and to demolish the concrete core. An engineering assessment will be undertaken to ensure the slabs are able to take the impact of the falling concrete. The concrete will then be dropped down the shaft where it will be loaded out at the bottom.

When operating the Brokk excavators the operators will be standing at a safe distance (4m) while still maintaining line of site to the work face.



Phase #4 Demolition

In Phase #4 the XL platform will be repositioned so that it is able to fit between the rock-face and the tower. The demolition robots will continue to pulverise the concrete until it reaches the ground level.



11.1.7 Core Footing

The core footing of the tower will be removed by the following:

- Core drilling the footing in evenly spaced locations.
- Inserting an explosive gas to blast and crack the footing.
- Hammering the footing to remove concrete.
- Loading out concrete and oxy-cutting reinforcement steel.

A blast management plan will be created in consultation with the approved explosives subcontractor closer to the date of the blast date. The blast management plan will be made available to Client and SafeWork approval prior to works being undertaken.

11.1.8 Concrete and Landscaping Works

The final stage of the works involves the pouring of a new slab in the Cutaway area where the HCT once stood and some minor landscaping works at the Merriman Street level.

11.2 STRUCTURAL ENGINEERING REQUIREMENTS

Liberty Industrial has employed Scotia Access to undertake the works of installing the grillage for the XL Platform and erecting the platform. Scotia Access has engaged their own Structural Engineers for the Design of the grillage.

GHD Engineering will be utilised to provide a design for the infill slab constructed in the Cutaway area once the HCT has been removed.

No other structural engineering advice is expected to be required.

11.3 MAJOR PLANT & EQUIPMENT

The following outlines a list of the proposed plant and equipment to be used for the works:

- 1 x XL Platform
- 1 x Skid Steer Loader
- 1 x 12t Excavator with bucket attachment.
- 1 x 16t City Crane
- 1 x 55t Mobile Crane
- 2 x 1.6t Brokk Demolition Robots.

11.4 XL PLATFORM

The XL platform is a major component of the methodology. It was chosen to minimise the impact on the surrounding area in particular regards to the following:

- Noise and Vibration

- Air Quality
- Traffic

The XL Platform is rated to support a 7 tonne live load which is well in exceedance of the expected loads (2 x 1.6t excavators + light scaffolding + 4 workers).

The platform will be wrapped in shade cloth to help mitigate dust escape. Water sprays will be used when all concrete pulverising occurs to mitigate dust production.

The deck of the XL Platform will be covered in rubber matting to create a sealed area. This deck will catch any concrete rubble which does not fall into the shaft. The deck will be regularly cleaned and any rubble will be shovelled into the shaft.

The materials hoist will be separated from the platform with a gate which will only be opened when loading or entering the hoist. At all other times the gate will be shut and no gaps will be left for rubble to fall through.

Details on the erection and operation of the XL Platform will be outlined in the job specific Work Method Statements and Job Hazard Analysis. All works will be in accordance with the relevant Standards and Codes of Practice.

11.5 TRANSPORTATION

All waste concrete material will be collected from the base of the tower and progressively loaded into semi-tippers and transported to an offsite scrap recycling facility.

Asbestos waste will be placed in plastic lined bins adjacent the work area and transported to a licenced disposal facility.

All general demolition waste material will be loaded into semi-tippers and transported to a licenced offsite disposal facility.

11.6 RECYCLING AND WASTE MANAGEMENT

All concrete and scrap steel will be sent to an approved concrete recycling facility. It is estimated that 98% of waste produced will be recycled.

All general demolition waste and asbestos waste will be transported offsite by licensed contractor to a lawful disposal landfill. All waste will be tracked and audits undertaken to verify its destination.

Ref: Waste Management Plan

11.7 REGULATORY AUTHORITY NOTIFICATION

Safework NSW will be notified on the prescribed form and in the prescribed manner the intention of the company to undertake the following works:

- Demolition Works
- Asbestos Removal Works

The regulator will be provided with a notification 5 days prior to work commencing as prescribed.

Ref: *Form 65 Notification of licensed asbestos removal work*

Form 67 Notification of demolition work

11.8 SAFETY AND ENVIRONMENTAL RISK CONTROL

11.8.1 Demolition Risk Assessment Workshop

A Demolition Risk Assessment Workshop (DRAW) will be undertaken prior to work commencing to identify the high-level Safety and Environmental risks that are likely to be encountered during the works.

The site team undertaking the DRAW will include, but not limited to, the following:

- Project Manager
- Site Supervisor
- Workers
- Client Representatives

The DRAW will then be used by the site team as the foundation for the development of a Job Hazard Analysis (JHA) for each specific task identified within each Work Method Statement.

As circumstances change, the DRAW will undergo review.

11.8.2 Protective Measures

Fencing

The perimeter of the defined demolition zone will be fenced and sign posted to prevent unauthorised access. Only persons with the authority of the Project Manager may enter the site.

Spotters

During the demolition works, spotters will be stationed as required by the JHA to prevent unauthorised access.

Environmental Controls

See Environmental Management Plan under separate cover.

11.8.3 Emergency Response

An emergency response plan will be developed. An emergency muster point will also be identified on site.

11.9 DAILY CHECK ITEMS

11.9.1 Before Commencing

- All openings and elevated free edges are properly guarded.
- Any temporary bracing or propping and the like are stable and secure.
- All fire and safety services are operational where required and other services not required have been safely disconnected.
- Any hazardous substances have been removed and correctly disposed of.
- Lines of communication to the supervisor are clear and operational.
- All emergency access routes are clear of debris and clearly marked.

11.9.2 Before Leaving Site

- All partly demolished plant and or structures are secure and stable.
- All demolished materials have been removed or secured against high winds.
- All fires or burning embers have been properly extinguished.
- All emergency access routes are clear of debris and clearly marked.
- All boundaries have been secured against unlawful entry.
- All areas outside of the deconstruction zone are clear of demolished materials and any hazard is properly lit, guarded and clearly marked.
- A daily close out meeting will be held to confirm all of the above.

12 ASEBSTOS

Asbestos shall be monitored for all aspects of the works whilst being undertaken. Work shall cease in the event that visual emissions are observed which have the potential to harm the environment.

Dust suppression method will be employed while undertaking the work in accordance with the Asbestos Control Management Plan.

13 NOISE CONTROL

Following is a list of the proposed noise producing activities to be undertaken:

- Oxy cutting
- Demolition / Pulverising concrete with excavators

- Breaking concrete
- Core drilling
- Loading trucks
- Plant Movement

Noise from the above activities is expected to be minimal and expected to fall within the required parameters of the site.

All activities shall comply with the report titled “HCT Barangaroo, Demolition Noise and Vibration Assessment” dated February 2016 and prepared by Acoustic Logic.

14 CLIENT INSTRUCTIONS

Instructions are to be accepted from the BDA nominated representative only.

15 COMPLAINTS

BDA shall be notified immediately should any of the following:

- Media enquiries
- External complaints

16 PROGRAMME

See Demolition Schedule for the works under separate cover.

17 SITE INDUCTIONS

All worker(s) shall undergo a Barangaroo Short Term Work induction prior to commencing work.

All worker(s) shall undergo a Liberty Industrial site induction prior to commencing work.

All visitors will undergo a Visitors Induction prior to entering the site and will remain with a fully inducted person at all times.

18 AUTHORITY TO WORK (PERMIT TO WORK)

The company will implement a Permit to Work (PTW) system.

The PTW register will be made available to Golder Associates or their nominated representative on request which will contain namely but not limited to:

- Hot work (drilling, grinding, cutting);
- Working at height (above 2 m);

- Electrical. In general all electrical power will be isolated prior to demolition commencing.
- Welding;
- Oxy cutting;
- Excavation and Penetrations;
- Hazardous Work Permit;

Ref: *PRO-042 Work Permit*

19 TRAINING

Only trained worker(s) will be engaged on the project along with their qualifications. Verification Competencies (VOC's) will also be undertaken, and filed.

20 WORK AREA INSPECTIONS

Work area inspections shall be undertaken on a weekly basis as a minimum.

Ref: *FRM-013 Work Area Inspection*

PRO-057 Work Area Inspection

21 HEALTH AND SAFETY SYSTEM

Consideration of health and safety risks and control measures has been included in the site specific Work Health and Safety Management Plan under a separate cover. In addition, a Demolition Risk Assessment Workshop (DRAW) will be undertaken prior to commencing work along with specific Work Method Statements and Job Hazard Analysis.

22 ECOLOGICAL SUSTAINABILITY DEVELOPMENT

The company commits to an ecological and sustainable site, including the following:

22.1 GREEN PROCUREMENT AND ENERGY & WATER EFFICIENCY

The following measures shall be adopted:

- Use of the latest in fuel efficient plant;
- Lighting will only be used for site offices and amenities where natural light is insufficient (no lighting required outside to facilitate the works);
- When plant is not in use it is to be switched off minimising idling time of the plant;
- Transport loads will be maximised to reduce number of loads and hence emissions and impact on the environment;
- Recycled paper will be used for all documentation produced and printing on both sides of each page. Soft copies of documents are to be used in preference to printing;

- Plant is maintained to manufacturers specifications;

22.2 WASTE AND RECYCLING

- All demolition material will be sorted into waste streams to maximise recycling;
- 95% recycling of all ferrous and non-ferrous products from the project;

22.3 EFFICIENCY IN RESOURCE AND MATERIAL USE

Due to the nature of the undertaking, the use of materials will predominately be fuel, Oxy/LPG gas, and geo-fabric for environmental controls. The use of these materials will be monitored to ensure maximum efficiency is achieved.

22.4 MONITORING AND REPORTING

The following items shall be monitored by all worker(s) and reported to the Project Manager for action:

- Water leaks;
- Flicking lights;
- Dripping taps;
- Idling plant;
- Inefficient use of materials;
- Inefficient use of plant;

All monitoring requirements as stipulated in B22A (Noise Monitoring), B24A (Air Quality Monitoring) and D6B (Asbestos Monitoring) of the Project Approval MPO10_0048 MOD 4 will be adhered to (refer to plans referenced in section 8.3 above).

All monitoring requirements identified within the plans referenced in section 8.3 above will be adhered to.

23 COMMUNICATION PROTOCOL

All external communication including media, key community representatives, community groups, neighbours approached to Liberty Industrial personnel shall notify the Project Manager immediately. All external communications shall be directed to the BDA representative.

APPENDIX A – ORGANISATIONAL CHART

