

Design and Construct Proposal -



Proposal  
for



Two Giant 7.5 Meter Carnaby Cockatoos perched on a Giant Tree Branch  
at

The Town of Moora

Kerkhof Carnaby Group

Moora 6510

Western Australia

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validity: 365 days

18-12-2020

Proposal No: 1900016 REVISION 1

Rachel Walmsley

**On behalf of the Kerkhof Carnaby Group**

Regarding – Proposed Two Giant 7.5 Meter Carnaby Cockatoos Perched on a Giant Tree Branch

Dear Rachel

Thank you for this opportunity to prepare the following proposal for the Two Giant 7.5 Meter Carnaby Cockatoos perched on a Giant Tree Branch to be built in the town of Moora.

From your brief, we have created the concept artwork for the two cockatoos, that will create an incredible iconic feature for the Town of Moora which in turn will draw more tourists to the area as a tourist attraction and hopefully dramatically increase awareness and gather further support in the current plight, to securing the survival of this beautiful bird species in the area.

As a nature based themed attraction design and construction company, we take care of the process from start to finish. With a proven strong background in creating larger than life attractions we create every project to suit the individual desires of our client and accordingly every attraction has its own very distinctive character.

We start with a Preliminary Design and Construction Agreement which covers the design element of process, after which we can provide an accurate pricing. Included in this agreement is an estimated budget based on industry standards which will give you a guide for budgeting only. Once we have completed the design to meet your requirements, we will be able to provide a firm price.

Thank you once again, and we look forward to working with you on this project.

Yours faithfully,

A handwritten signature in black ink that reads "David Joffe". The signature is written in a cursive, flowing style.

David Joffe  
Managing Director

## Brief

***We want to build a large bird sculpture for public display in Moora WA. It is to be Carnaby's Black Cockatoo – see attached photos. They are an iconic yet endangered bird of this region and this town. Our group and a Cockatoo group have helped recover the species here and we want to celebrate that and also put Moora on the map as the town of the 'Big Carnaby'. It will be a tourist pull and help bring people into the country.***

*We had a meeting yesterday to scope out ideas. We would like it to be large (8-12m). We looked at other 'big' sculptures around Australia including the big galah and cassowary, and the big ram here in WA. They are all old school steel frame and fibreglass then painted. We'd like a material that brings out more details – of the feathers, the tail etc. One of the meeting participants brought in a resin bird sculpture (see photo). Everyone liked the look of this – the detail, the closed wings, the perching on a log, and also that the long term maintenance should be less ie painting etc.*

*We also want to explore building a sculpture with open wings. This might be logistically impossible but we'd like to explore that option.*



We share your belief in the potential of this great opportunity to create an iconic larger than life tourist attraction to be built in the town of Moora, Western Australia. The Carnaby Cockatoo sculptures would ideally be placed on the predetermined site to maximise their exposure with ease of access to tourists and visitors.

We would hope that the cockatoo sculptures concept artwork we have created for you, if built, would become a major attraction, with the intent of gaining national and international acclaim, and turn Moora into a **destination for tourists as a "must see"** gigantic Aussie Icon. In doing so we hope to bring awareness to the general public about the plight of the Carnaby Cockatoos and the very real associated risks posed that could bring about their extinction. This will also educate the public more on what has been already done to preserve the species and even increase the numbers of birds in bringing the numbers back from the brink of extinction to their current numbers over the last 20 years. We would all hope that this awareness will not only secure the survival of but increase the numbers of the species in the future.

## Preliminary Design and Construct Agreement

The following offer is for the Design and Construction stages of the two 7.5-metre high Carnaby Cockatoo sculptures on a large faux concrete branch.

### Operative Part

The agreement is to design and construct the project listed below and to the final brief for the entire works.

Acceptance of any stage authorizes the approval to commence the next stage of the project. If at the completion of any stage of the agreement, **the work is not up to the owner's satisfaction or is put on hold (through either notification or lapse of time)**, all costs to date plus a cancellation fee will be due and payable and all copyright to the design documents to date are to revert to and be fully assigned back to Natureworks Pty Ltd.

The above preliminary scope of works outlines the extent of the project within your brief, the project stages and the overall budget.

### Fee Breakdown

- Design stages \$30,000.00 +GST
- Construction and install \$258,000.00 +GST

Total Budget Cost \$288,000.00 +GST

Note: The Project Budget is a preliminary estimate based on averages of industry standard rates.

The contract value for stage 3 will be determined by the agreed design and the level and quality and finishes and the final scope of works as specified in stage 2.

No Building Certification has been allowed for in the Total Budget Cost.

All prices stated above exclude GST

## Project Stages and Fee Structure

### Stage 1 Concept Design Completed

#### **Obtain the client's brief and other requirements.**

Inspect the site and assess site conditions and constraints.

Provide recommendations.

Prepare images, sketches or written recommendations to adequately explain the concept.

Provide a preliminary budget estimate of costs.

Obtain clients approval of concept design stage.

Fee for stages 1 \$2500.00 + GST (Completed – see attached below)

### Stage 2 Approved Design Development & Contract Documentation

Develop the approved concept design solution.

Prepare developed concept drawings, diagrams and other information to adequately explain the design.

Provide schedule of materials and finishes.

Structural engineering design.

Prepare architectural and working drawings for contract documentation.

Prepare 3D modelling drawings of the pieces.

Prepare a maquette scale model of the branch sculpture

Advise the client on additional costs to engage consultants whose expertise is not held by Natureworks

Pty Ltd - e.g. Hydraulics Engineer, Civil Engineer, Surveyor, Building Certifier etc. as required for approvals if required (See below)

Coordinate the work of consultants.

If applicable, advise the client on costs of council application fees and other statutory charges to be incurred by the client.

Liaise with client to confirm scope of works required and make amendments where necessary.

Make client aware of variations that may arise during the project.

Prepare final quotation for building works and installation.

Prepare building contract documents and have executed.

Fee for stages 2 \$27,500.00 +GST

### Stage 3 Construction & Installation

Accepted contract price for building and installation works including project management to be determined by detailed costing of completed design stages above.

Budget Estimate Price \$258,000.00 + GST

Note: Cost of fees for consultants, town planners, councils and building approvals are additional to design fees and are to be paid by client prior to submission of application if required (See above).

All prices stated above exclude GST



## Budget Estimate Breakdown of Construction and Installation

1. Sculpt Pattern, Mold, Cast and Paint Cockatoos 38%	\$98,000 + GST
o Using 3D reference drawings, we will sculpt the 7.5-meter-long Cockatoo in foam and then hard coat it.	
o This Pattern (plug) sculpture will then be used to produce the fiberglass mold of the Cockatoo	
o From the Fibreglass mold we will cast the two copies of the cockatoos and make modifications to determine Male and Female.	
o The two cockatoos are then painted with a highly durable 2 pack finish.	
2. Structural Steel Fabrication for Cockatoos and Branch 7%	\$18,000.00 + GST
o From the Engineering design drawings both the structural steel internal frames for both the faux tree branch and the fibreglass cockatoos will be built.	
o Hot dip galvanise all steel frame pieces	
3. Installation and Site Works 30%	\$77,500.00 + GST
o Mobilise and site establish	
o Set out site, excavate, form up and set steel reinforcing in place and then pour engineered concrete footing	
o Install structural steel for faux tree branch and weld steel armature	
o Apply concrete coating to steel armature and sculpt faux tree branch finish	
o Crane lift and attach the two cockatoos onto branch	
o Paint faux tree branch	
o Final clean and demobilize from site	
4. Project Management and Installation Supervision 8%	\$20,600.00 + GST
5. <b>Preliminary's</b> 17%	\$43,900.00 + GST
o i.e. Flights, transport/ freight, access equipment, accommodation, plant hire, vehicle hire, Insurances, staff allowances, temporary fencing, waste disposal, OH&S, etc.	
 Total Construct and install Price	 \$258,000.00 + GST

Clear access to the site is assumed.

Access to amenities, water, power, lighting or adequate temporary lighting is assumed

### Exclusions

Any out of hours work - No allowance has been made for work outside of normal trading hours 6.00 am – 6.00 pm Monday to Friday and 6.00am – 1.00pm on Saturday. Should work be required to be done out of hours additional loading charges will apply and be put through as a variation.

Any underground service location, e.g. x-rays should it be a requirement if we are excavating were there could be possible services.

Anything not mentioned in the above scope of works.

Any electrical or any other services work.

Certification or any local authority or Town Planning fees and charges

Any Liquidated damages or Any Retentions

## Budget Estimate Breakdown of Construction and Installation For 6 Meter **Cockatoo's**

6. Sculpt Pattern, Mold, Cast and Paint Cockatoos 38% \$81,700 + GST
  - Using 3D reference drawings, we will sculpt the 7.5-meter-long Cockatoo in foam and then hard coat it.
  - This Pattern (plug) sculpture will then be used to produce the fiberglass mold of the Cockatoo
  - From the Fibreglass mold we will cast the two copies of the cockatoos and make modifications to determine Male and Female.
  - The two cockatoos are then painted with a highly durable 2 pack finish.
  
7. Structural Steel Fabrication for Cockatoos and Branch 7% \$15,000.00 + GST
  - From the Engineering design drawings both the structural steel internal frames for both the faux tree branch and the fibreglass cockatoos will be built.
  - Hot dip galvanise all steel frame pieces
  
8. Installation and Site Works 30% \$64,550.00 + GST
  - Mobilise and site establish
  - Set out site, excavate, form up and set steel reinforcing in place and then pour engineered concrete footing
  - Install structural steel for faux tree branch and weld steel armature
  - Apply concrete coating to steel armature and sculpt faux tree branch finish
  - Crane lift and attach the two cockatoos onto branch
  - Paint faux tree branch
  - Final clean and demobilize from site
  
9. Project Management and Installation Supervision 8% \$17,200,00 + GST
  
10. **Preliminary's** 17% \$36,550.00 + GST
  - i.e. Flights, transport/ freight, access equipment, accommodation, plant hire, vehicle hire, Insurances, staff allowances, temporary fencing, waste disposal, OH&S, etc.

Total Construct and install Price \$215,000.00 + GST

Clear access to the site is assumed.

Access to amenities, water, power, lighting or adequate temporary lighting is assumed

Exclusions

Any out of hours work - No allowance has been made for work outside of normal trading hours 6.00 am – 6.00 pm Monday to Friday and 6.00am – 1.00pm on Saturday. Should work be required to be done out of hours additional loading charges will apply and be put through as a variation.

Any underground service location, e.g. x-rays should it be a requirement if we are excavating were there could be possible services.

Anything not mentioned in the above scope of works.

Any electrical or any other services work.

Certification or any local authority or Town Planning fees and charges

Any Liquidated damages or Any Retentions

**7.5m CARNABY'S COCKATOO DISPLAY**

**OPTION 1**



<p><b>NATUREWORKS</b> <small>Environmental Education &amp; Conservation</small></p>  <p>732 MP CLARENCE RD BRIGHTON VIC 3186 PH: +61 3 8287 7333 FX: +61 3 8287 7355 E: info@natureworks.com.au www.natureworks.com.au</p>	<p><b>COPYRIGHT:</b> <b>NATUREWORKS</b> Copyright Natureworks Pty Ltd <b>ALL RIGHTS RESERVED</b> Under no circumstances is this concept allowed to be copied in whole or part without written permission of NATUREWORKS. <b>NON DISCLOSURE APPLIES</b> © Natureworks Pty Ltd</p>
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**7.5m CARNABY'S COCKATOO DISPLAY**

**OPTION 2**  
*Revised*



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Quote  
for



Two Giant 7.5 Meter Carnaby Cockatoos perched on a Giant Tree Branch  
at

The Town of Moora

Kerkhof Carnaby Group

Moora 6510

Western Australia

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validity: 30 days



## Natureworks

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23-12-2022

QUOTE No: 211044

Rachel Walmsley

### **On behalf of the Kerkhof Carnaby Group**

Regarding – Proposed Two Giant 7.5 Meter Carnaby Cockatoos Perched on a Giant Tree Branch

Dear Rachel

Thank you for this opportunity to prepare the following Quote for the Two Giant 7.5 Meter Carnaby Cockatoos perched on a Giant Tree Branch to be built in the town of Moora.

Please note Item 3 in the budget breakdown below, we have allocated a provisional sum allowance for this if you can manage to have it carried out by Mineral Resources.

We have also just allocated a provisional sum allowance for lighting and electrical work at this stage as this has not been reconciled yet. This should be enough to get some lighting on to the sculpture.

Stage 3 Construction & Installation

Price \$360,000.00 + GST

This quote is based on Fabrication for the Cockatoos by our factory in the Philippines and the fabrication of the branch structure and branch finishing in Moora.

Payment term:

- o 30% Deposit prior to the commencement of any works.
- o 20% Progress claim prior to shipping the Cockatoos to site.
- o 20% Progress claim upon commencement of Steel Fabrication work
- o 20% Progress claim once site works commence.
- o 10% Balance payable within 14 days of Practical Completion

Thank you once again, and we look forward to working with you on this project.

Yours faithfully,

David Joffe  
Managing Director



## Budget Breakdown for Construction and Installation

1. Sculpt Pattern, Mould, Cast and Paint Cockatoos	\$146,000 + GST
o Sculpt the 7.5-meter-long Cockatoo pattern.	
o This Pattern (plug) sculpture will then be used to produce the fiberglass mould of the Cockatoo	
o From the Fibreglass mould we will cast the two copies of the cockatoos and make modifications to determine Male and Female.	
o Insert Structural steel armature	
o The two cockatoos are then painted with a highly durable 2 pack finish.	
2. Structural Steel Fabrication for Cockatoos and Branch	\$38,600.00 + GST
o Fabricated structural steel internal frames for the faux tree branch.	
o Corrosion resistant coating to all steel frame pieces.	
3. Concrete Footing (PROVISIONAL SUM ALLOWANCE)	\$12,500.00 + GST
o Set out site, excavate, form up and set steel reinforcing in place and then pour engineered concrete footing	
4. Installation and Site Works	\$70,300.00 + GST
o Mobilise and site establish	
o Install structural steel for faux tree branch and weld steel armature	
o Apply concrete coating to steel armature and sculpt faux tree branch finish	
o Crane lift and attach the two cockatoos onto branch	
o Paint faux tree branch	
o Final clean and demobilize from site	
5. Project Management and Installation Supervision 8%	\$25,600,00 + GST
6. Electrical and Lighting (PROVISIONAL SUM ALLOWANCE)	\$5,000.00 + GST
7. <b>Preliminary's</b>	\$62,000.00 + GST
o i.e. Flights, transport/ freight, access equipment, accommodation, plant hire, vehicle hire, Insurances, staff allowances, temporary fencing, waste disposal, OH&S, administration etc.	
Total Construct and install Price	\$360,000.00 + GST

Clear access to the site is assumed.

Access to amenities, water, power, lighting or adequate temporary lighting is assumed

### Exclusions

Any out of hours work - No allowance has been made for work outside of normal trading hours 6.00 am – 6.00 pm Monday to Friday and 6.00am – 1.00pm on Saturday. Should work be required to be done out of hours additional loading charges will apply and be put through as a variation.

Any underground service location, e.g. x-rays should it be a requirement if we are excavating were there could be possible services.

Anything not mentioned in the above scope of works.

Certification or any local authority or Town Planning fees and charges

Any Liquidated damages or Any Retentions



## GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES BETWEEN ENGINEERING DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE CONFIRMED PRIOR TO COMMENCING CONSTRUCTION.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS, INCLUDING AMENDMENTS, OF THE BUILDING CODE OF AUSTRALIA (NCC), AUSTRALIAN STANDARDS, JOB SPECIFICATIONS AND CODES OF PRACTICE.
- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS AND GRID CO-ORDINATES ARE IN METRES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION METHOD AND MAINTENANCE OF SAFETY DURING THE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES DURING THE CONSTRUCTION PROCESS AND IS RESPONSIBLE TO ENSURE THAT NO STRUCTURAL ELEMENT IS OVER STRESSED DURING THE CONSTRUCTION PROCESS.
- CONTRACTORS ARE TO SUPPLY TEST AND COMPLIANCE CERTIFICATES AS REQUESTED IN AUTHORITY PERMITS AND APPROVALS.
- THE ENGINEERS DRAWINGS ARE NOT TO BE SCALED.
- ALL DIMENSIONS TO BE CHECKED AND SITE MEASURED, PRIOR TO CONSTRUCTION.

## FOUNDATIONS

- DESIGN HAS BEEN CARRIED OUT USING A SITE CLASSIFICATION OF 'A' AS PROVIDED IN AS2870. IF A WELL DRAINED SITE WITH SOIL PARAMETERS OF SAND AND ROCK DIFFERENCE BETWEEN CONTROLLED FILL AND ROLLED FILL ARE NOT ENCOUNTERED PLEASE INFORM THE ENGINEER IMMEDIATELY.
- SITE PREPARATION TO BE CARRIED OUT WITH THE PROVISION OF AS3798.
- ALL TOPSOIL CONTAINING GRASS ROOTS MUST BE REMOVED FROM THE AREA ON WHICH THE FOOTING WILL REST.
- FOOTING EXCAVATION MUST BE FREE OF LOOSE EARTH, TREE ROOTS, MUD OR DEBRIS IMMEDIATELY BEFORE POURING CONCRETE.
- FOOTING FORMATION LEVELS MUST BE COMPACTED TO ACHIEVE 7 BLOWS PER 300MM USING THE METHOD DESCRIBED IN AS1289.6.3.3 OR AS OTHERWISE DETERMINED BY THE STRUCTURAL SPECIFICATION.
- COMPACTED FILL OR A LEAN MIX CONCRETE AS DIRECTED BY THE ENGINEER CAN BE USED TO ACHIEVE A FORMATION LEVEL AT THE UNDERSIDE OF A FOOTING OR SLAB.
- COMPACTED FILL SHOULD BE IN ACCORDANCE LAID IN ACCORDANCE WITH NCC CLAUSE 3.2.2.2.
- CONTROLLED FILL - SAND UP TO 800MM DEEP IN WELL COMPACTED LAYERS OF NOT MORE THAN 300MM BY VIBRATING PLATE OR VIBRATING ROLLER.
- ROLLED FILL - SAND UP TO 600MM DEEP COMPACTED IN LAYERS OF NOT MORE THAN 300MM DEEP BY REPEATED ROLLING BY AN EXCAVATOR OR OTHER SUITABLE MECHANICAL EQUIPMENT.
- STEPPED FOOTINGS MUST BE HORIZONTAL OR HAVE A SLOPE OF NOT MORE THAN 1:10. IF SITE CONDITIONS ARE BEYOND THESE PARAMETERS SEEK ADVICE FROM THE ENGINEER.

## STRUCTURAL STEELWORK

- ALL STRUCTURAL STEELWORK SHALL BE IN ACCORDANCE WITH AS4100. ALL WELDING TO BE ACCORDANCE WITH AS1554. ALL COLD FORMED SECTIONS SHALL COMPLY WITH AS1397 AND BE ERECTED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
- STEEL SHALL BE OF THE FOLLOWING MINIMUM GRADE U.N.O

TYPE OF STEEL	GRADE
UNIVERSAL BEAM AND COLUMNS, PARALLEL CHANNELS, LARGE ANGLES AS3679.1	300
WELDED SECTIONS AS 3679.2	300
HOLLOW SECTIONS AS1163	C350
HOT ROLLED PLATES, FLOOR PLATES AND SLABS TO AS3678	250
COLD FORMED PURLINS AND GIRTS AS1397	G450 Z350

- ALL STRUCTURAL STEELWORK SHOULD BE COATED IN ACCORDANCE WITH AS2312 AND THE NCC U.N.O. ALL NUTS BOLTS, WASHERS HOLDING DOWN RODS ETC TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS1214.
- MINIMUM CONNECTIONS U.N.O STATED TO BE 2 M16 BOLTS WITH MINIMUM 10MM PLATE.
- ALL BOLTS TO BE A MINIMUM OF GRADE 8.8 UNLESS OTHERWISE STATED.
- ALL HOLLOW SECTIONS ARE TO BE SEALED USING 3MM PLATE U.N.O.
- ALL WELDS TO BE A MINIMUM OF 6MM CONTINUOUS FILLET WELD ALL ROUND ELEMENT.
- ALL FABRICATION DRAWINGS TO BE SUBMITTED AT LEAST 7 DAYS TO STRUCTURAL ENGINEER PRIOR TO FABRICATION.

## CONCRETE

- ALL WORKS IN ACCORDANCE WITH AS3600, READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379
- CONCRETE SPECIFICATION

CONCRETE SPECIFICATION				
LOCATION	EXPOSURE CLASSIFICATION	CONCRETE* U.N.O	TYPE OF CEMENT	COVER TO REINF. U.N.O
RESIDENTIAL FOOTINGS	A1	N20/20/80	GP	BOTTOM 70 SIDES 50 TOP 50
COMMERCIAL FOOTINGS	A2	N32/20/80	GP	BOTTOM 70 SIDES 50 TOP 50
SLAB - INTERNAL GROUND	A2	N20/20/80	GP	25 TOP
SLAB - POLISHED CONCRETE	A2	N32/20/80	GP	25 TOP
SLAB-EXTERNAL GROUND	B1 > 1KM FROM COAST B2 < 1KM FROM COAST	N32/20/80 N40/20/80	GP	40 45
SLAB-SUSPENDED INTERNAL	A2	N32/20/80	GP	20
SLAB-SUSPENDED EXTERNAL	B1 > 1KM FROM COAST B2 < 1KM FROM COAST	N40/20/80	GP	30 45
COLUMNS/WALLS - INTERNAL	A2	N40/20/80	GP	25
COLUMNS/WALLS - EXTERNAL	B1 > 1KM FROM COAST B2 < 1KM FROM COAST	N40/20/80	GP	30 45

- \*CONCRETE - STRENGTH/MAX AGG SIZE (MM)/SLUMP
- CONCRETE TO BE CURED BY AN APPROVED METHOD AND MINIMUM CONCRETE CURING TIMES FOR THE FOLLOWING EXPOSURE CLASSIFICATION -
  - A1 AND A2 - CONTINUOUSLY FOR 3 DAYS
  - B1 AND B2 - CONTINUOUSLY FOR 7 DAYS
  - NO CONCRETE TO BE POURED WHEN SITE TEMPERATURE DOES NOT FALL BETWEEN 35C OR 5C
  - SIZES OF CONCRETE DO NOT INCLUDE FOR APPLIED FINISHES
  - FORMWORK IS UNDER THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE DESIGNED BY A COMPETENT PERSON IN ACCORDANCE WITH AS3610
  - BRITTLE FLOOR COVERINGS SHOULD NOT BE APPLIED TO SLABS FOR A MINIMUM OF 3 MONTHS U.N.O
  - NO CONSTRUCTION JOINTS ARE TO BE INTRODUCED TO CONCRETE ELEMENTS WITHOUT PRIOR APPROVAL BY THE ENGINEER
  - CONTROL, EXPANSION AND CONTRACTION JOINTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERS DETAILS. ALL SAW CUTS ARE TO BE MADE WITHIN 12 HOURS OF CONCRETE PLACEMENT
  - NO ADMIXTURES ADDED TO CONCRETE UNLESS APPROVED BY THE ENGINEER
  - STRUCTURAL ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTIONS
  - NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN THE CONCRETE MEMBERS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER
  - CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF THE SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO THE REINFORCEMENT

## REINFORCEMENT

- ALL REINFORCEMENT BARS SHALL BE GRADE D500N TO AS4671 UNLESS NOTED OTHERWISE. ALL MESH SHALL BE GRADE 500L TO AS4671 AND SHALL BE SUPPLIED IN FLAT SHEETS
- REINFORCEMENT ABBREVIATIONS AND GRADES AS FOLLOWS

REINF. TYPE	DESCRIPTION	GRADE
R	PLAIN REINFORCING BARS	R250N
S	DEFORMED BARS	D250N
L	PLAIN OR DEFORMED WIRE	R500L OR D500L
N	DEFORMED BARS	D500N
RL	DEFORMED RECTANGULAR MESH	D500RL
SL	DEFORMED SQUARE MESH	D500L
TM	DEFORMED BARS TRENCH MESH	D500L

- MINIMUM BAR LAPS TO BE 400MM OR 40D WHICH EVER IS GREATER
- MESH LAPS SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50MM
- SITE BENDING OF BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER
- REINFORCEMENT SHALL BE SUPPORTED ON APPROVED PLASTIC OR PLASTIC TIPPED WIRE CHAIRS AND HOLD RIGIDLY IN POSITION AS FOLLOWS -
- BARS UP TO N12 AND FABRIC -800MM CENTRES BARS N16 AND LARGER -1200MM CENTRES

## FORMWORK

- FORMWORK TO COMPLY WITH AS 3810
- ALL FORMWORK SET OUT TO ARCHITECTS DRAWINGS
- ADHERENCE GIVEN TO SERVICES SET OUT WITH ALL CONDUITS TO BE RUN AT MID DEPTH OF CONCRETE MEMBER
- MINIMUM STRIPPING TIMES
- VERTICAL FACES - 2 DAYS
- BEAM, SLAB AND STAIR SOFFITS - 7 DAYS
- BACK PROPPING BEAM SLAB AND STAIRS STRIPPING - 28 DAYS
- IF BRICKWORK IS BUILT ON SLAB WITH NO DIRECT WALL BELOW, PROPOSED MASONRY WALL TO BE BUILT AFTER STRIPPING OF BACK PROPS HAS TAKEN PLACE TO ALLOW FULL DEFLECTION OF SLAB TO OCCUR BEFORE CONSTRUCTION. NO BRICKWORK TO BE BUILT ON PROPPED SLABS!

## TIMBER

- ALL TIMBER DESIGN, MATERIAL AND CONSTRUCTION TO BE IN ACCORDANCE WITH AS1720
- ALL TIMBER CONNECTIONS TO BE IN ACCORDANCE WITH WITH AS1684
- MINIMUM SOFTWOOD TIMBER STRESS GRADE TO BE F7 U.N.O. HARDWOOD TO MINIMUM GRADE F14 U.N.O.
- GLU-LAMINATED BEAMS TO BE SUPPLIED IN ACCORDANCE WITH AS1328. LVL TIMBER TO BE SUPPLIED IN ACCORDANCE WITH AS4357
- TIMBER TOLERANCES ON THE FINISHED WIDTH AND THICKNESS TO BE IN ACCORDANCE WITH AS2082, AS1748, AS3519 AS APPROPRIATE
- TIMBER TREATMENT TO BE AS FOLLOWS U.N.O

HAZARD CLASS	EXPOSURE	TYPICAL USE
H1	INSIDE, ABOVE GROUND, DRY	SUSCEPTIBLE FRAMING, FLOORING
H2	INSIDE, ABOVE GROUND, DRY	FRAMING SUBJECT TO TERMITES
H3	OUTSIDE ABOVE GROUND	DECKING, FENCING, PERGOLA
H4	OUTSIDE IN GROUND	TIMBER BEARERS

- ALL TIMBER JOINTS AND NOTCHES TO BE A MINIMUM OF 100MM AWAY FROM LOOSE KNOTS, SEVERE SLOPING GRAIN, GUM VEINS OR OTHER MINOR DEFECTS
- ALL BOLTED CONNECTIONS TO BE A MINIMUM OF 2 M10 U.N.O
- MINIMUM EDGE DISTANCES FOR TIMBER CONNECTIONS U.N.O. WHERE D IS THE DIAMETER OF THE BOLT
- END DISTANCE - 5D
- EDGE DISTANCE - 4D
- SPACING PARALLEL TO GRAIN - 5D
- SPACING PERPENDICULAR TO GRAIN - 5D

## MASONRY

- ALL MASONRY SHALL BE IN ACCORDANCE WITH AS3700, AS4773 AND THE NCC
- ALL BRICKWORK WILL HAVE A MINIMUM CHARACTERISTIC UNCONFINED STRENGTH OF 12MPa. ALL BLOCKWORK WILL HAVE A MINIMUM CHARACTERISTIC UNCONFINED STRENGTH OF 15MPa U.N.O
- MORTAR SHALL COMPLY WITH AS3700 2.2 AND HAVE A CLASSIFICATION OF M3 U.N.O
- ALL BONDING, TYING AND FIXING OF MASONRY SHALL COMPLY WITH CLAUSE 11 OF AS3700
- PROVIDE CONTROL JOINTS AT 10M MAX CENTRES, AND 5M MAX FROM CORNERS IN ALL MASONRY WALLS, U.N.O
- REINFORCED CONCRETE BLOCKWORK CORE FILL WILL HAVE A CHARACTERISTIC STRENGTH OF 20MPa 10MM MAX AGG. 230 SLUMP WITH A MIN CEMENT CONTENT OF 300KG/M3. 65MM COVER TO REINFORCEMENT BARS FROM THE OUTSIDE FACE OF THE BLOCKWORK TO ALLOW ADEQUATE COVER GROUT
- HORIZONTAL OR DIAGONAL CHASING IS NOT PERMITTED WITHOUT PRIOR CONSENT OF THE ENGINEER

## SPECIFICATION

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH ENGINEERING NOTES U.N.O
- JOB SPECIFICATIONS DETAILED ARE SPECIFICALLY FOR THIS PROJECT AND MUST NOT BE REPLICATED UNDER ANY CIRCUMSTANCE ON OTHER PROJECTS WITHOUT PRIOR CONSENT

DESIGN CRITERIA	
IMPORTANCE LEVEL	2
WIND AS 1170.2	
ANNUAL PROBABILITY	ULTIMATE = 1/500
	SERVICEABILITY = 1/25
REGION	A1
TERRAIN	CATEGORY = TC2.5
	Mz cat = 0.94
SHIELDING	Ms = 1.0
TOPOGRAPHY	Mt = 1.0
WIND VELOCITY	VR,u = 45m/s
	VR,s = 37m/s
DESIGN PRESSURES	ULTIMATE = -1.07kPa
	SERVICEABILITY = -0.73kPa
SOIL CLASS AS 2870	
SIDL	B - AS PER GALT GEOTECHNICAL REPORT
EARTHQUAKE AS 1170.4	
ANNUAL PROBABILITY	ULTIMATE = 1/500
HAZARD FACTOR	Z = 0.11

TIE DOWN/BRICK TIE CORROSION DETAILS				
LOCATION		DURABILITY CLASS	EXPOSURE ENVIRONMENT	MINIMUM CORROSION PROTECTION
BREAKING SURF	SHELTERED BAY	AS4773-2015 TABLE 4.1	AS4773-2015 TABLE 4.1	AS2900 2-2000 TABLE
LESS THAN 1km	LESS THAN 100m	R4	SEVERE MARINE	AS2900 2-2000 TABLE
BETWEEN 1km and 10km	BETWEEN 100m AND 1km	R3	MARINE	SHEET STEEL AND BAR TIES GALVANISED AFTER MANUFACTURE - 470 g/m <sup>2</sup> ON EACH SIDE, OR GALVANISED WIRE TIES - 470 g/m <sup>2</sup> COATING MASS, OR GRADE 304L STAINLESS STEEL
ALL OTHER AREAS	ALL OTHER AREAS	R2	MODERATE	GALVANISED SHEET STEEL - 300 g/m <sup>2</sup> COATING ON EACH SIDE, OR SHEET STEEL TIES GALVANISED AFTER MANUFACTURE - 300 g/m <sup>2</sup> ON EACH SIDE

## PURE STYLE ENGINEERING

Mr Roy Beattie  
 MEng MIEAust  
 MEM No. 5733085  
 DATE 20/09/2023

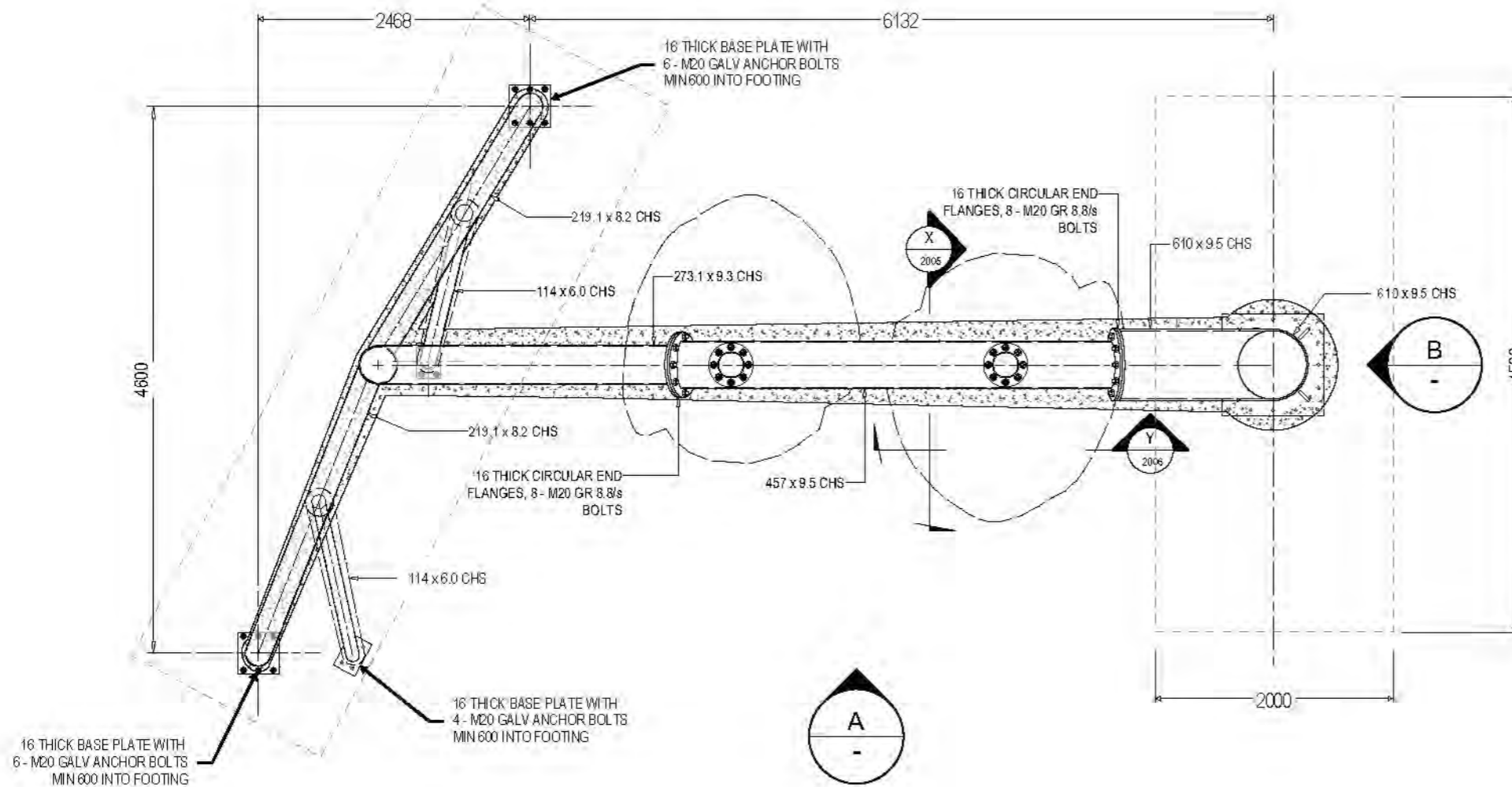


CLIENT MOORA LAND GROUP	ADDRESS CARNABY COCKATOO SCULPTURE, MOORA	A 20.09.23 CONST
	DRAWING TITLE GENERAL ENGINEERING NOTES	REV DATE DESCRIPTION
		SCALE AT A3 - DRAWING S2000
DRAWN TS	PROJECT NO. 782017	



**GENERAL NOTES**

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, ANY DISCREPANCIES BETWEEN ENGINEERING DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE CONFIRMED PRIOR TO COMMENCING CONSTRUCTION
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS, INCLUDING AMENDMENTS, OF THE BUILDING CODE OF AUSTRALIA (NCC), AUSTRALIAN STANDARDS, JOB SPECIFICATIONS AND CODES OF PRACTICE
3. ALL DIMENSIONS ARE IN MILLIMETERS AND. ALL LEVELS AND GRID CO-ORDINATES ARE IN METRES
4. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION METHOD AND MAINTENANCE OF SAFETY DURING THE CONSTRUCTION
5. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES DURING THE CONSTRUCTION PROCESS AND IS RESPONSIBLE TO ENSURE THAT NO STRUCTURAL ELEMENT IS OVER STRESSED DURING THE CONSTRUCTION PROCESS
6. CONTRACTORS ARE TO SUPPLY TEST AND COMPLIANCE CERTIFICATES AS REQUESTED IN AUTHORITY PERMITS AND APPROVALS
7. THE ENGINEERS DRAWINGS ARE NOT TO BE SCALED
8. ALL DIMENSIONS TO BE CHECKED AND SITE MEASURED, PRIOR TO CONSTRUCTION



**OVERALL PLAN**  
SCALE 1:50

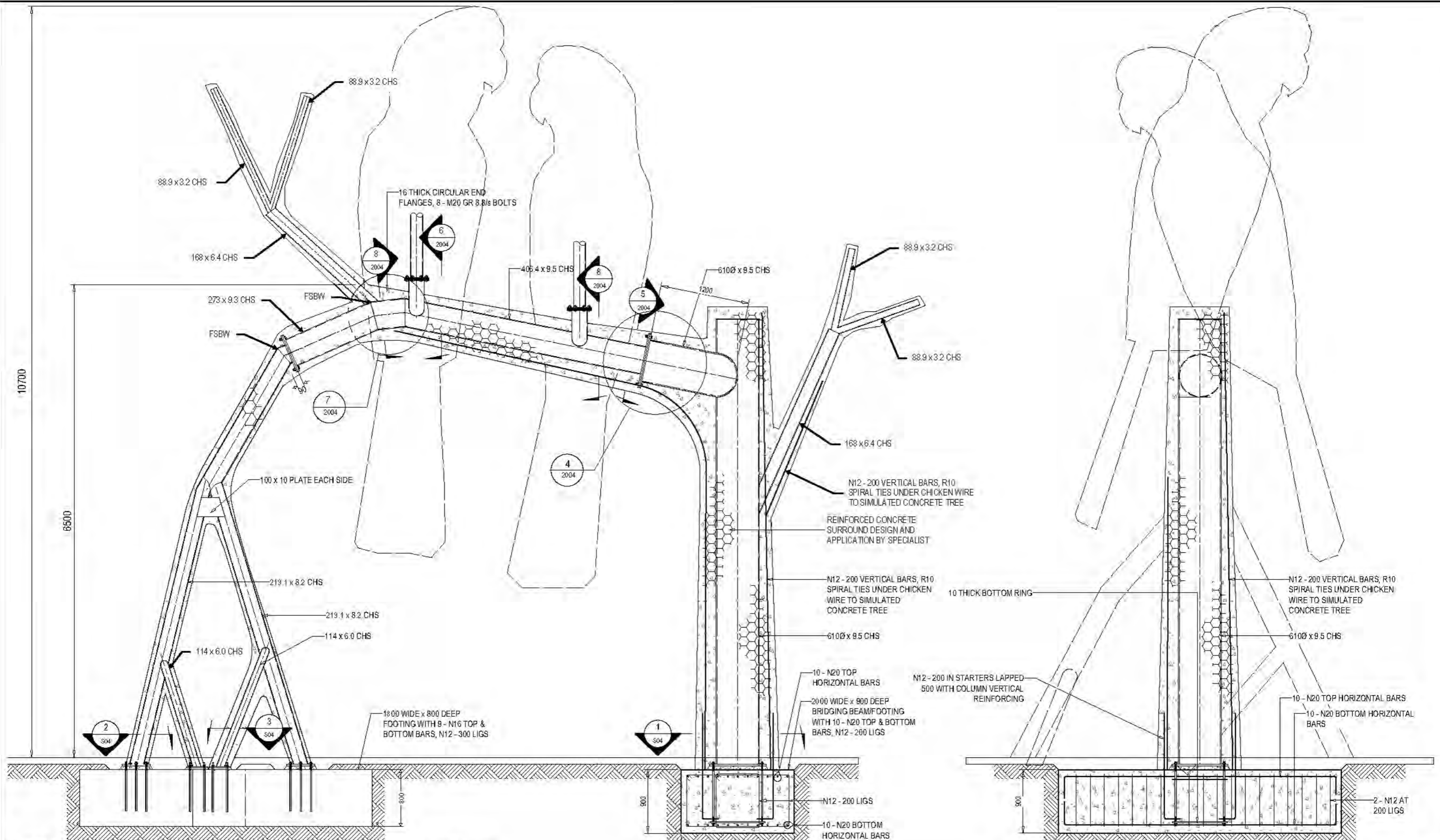
**PURE STYLE ENGINEERING**

Mr Roy Baffle  
MEng MIEAust  
MEM No. 5733086  
DATE 20/09/2023



CLIENT MOORA LAND GROUP	ADDRESS CARNABY COCKATOO SCULPTURE, MOORA	A	20.09.23	BLD PERMIT
		REV	DATE	DESCRIPTION
	DRAWING TITLE OVERALL PLAN	SCALE AT A3	1:50	DRAWING S2002
		DRAWN	TS	PROJECT NO. P2017





- GENERAL NOTES**
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, ANY DISCREPANCIES BETWEEN ENGINEERING DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE CONFIRMED PRIOR TO COMMENCING CONSTRUCTION
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**ELEVATION A**

**ELEVATION B**

**PURE STYLE ENGINEERING**  
 Mr Roy Baile  
 MEng MIEAust  
 MEM No. 5733095  
 DATE 20/09/2023

CLIENT  
**MOORA LAND GROUP**

ADDRESS  
**CARNABY COCKATOO SCULPTURE, MOORA**

DRAWING TITLE  
**ELEVATIONS**

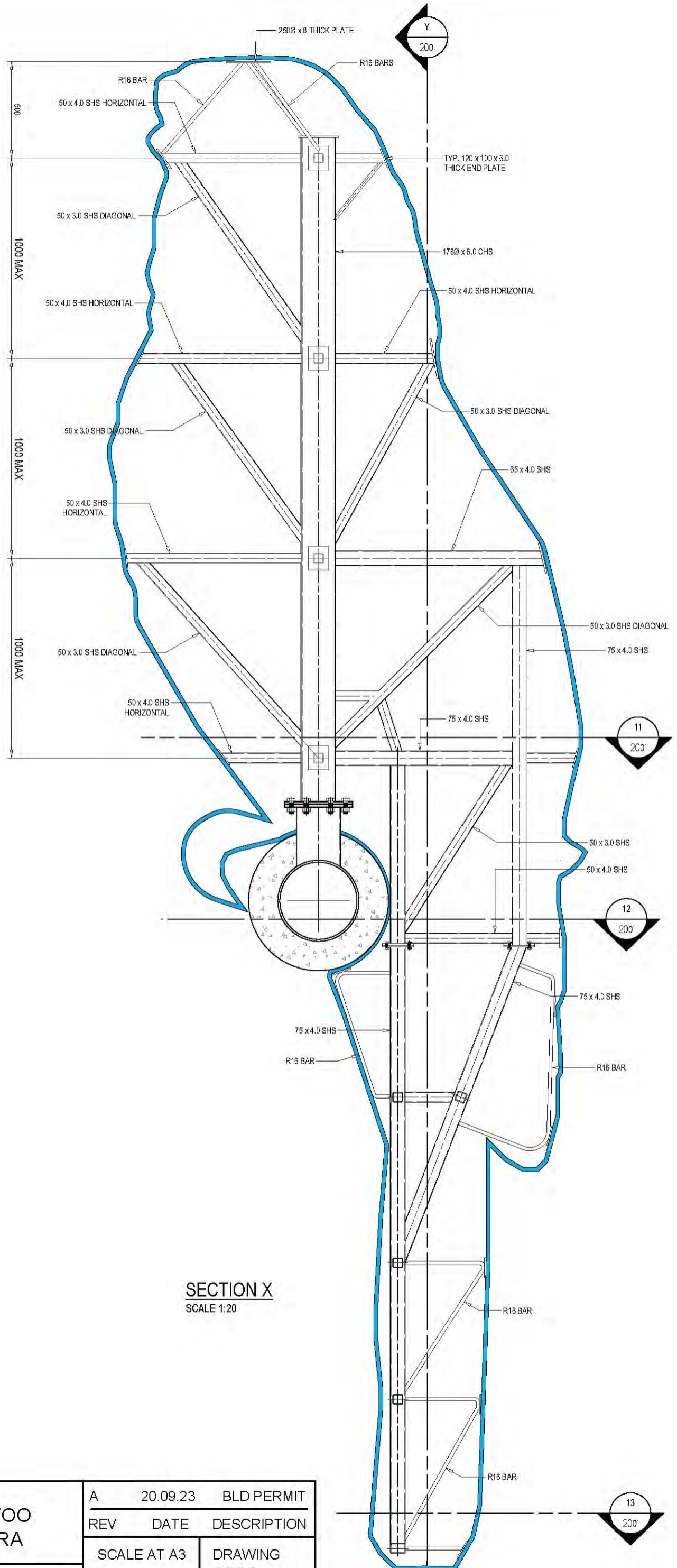
**PURE STYLE**  
 Engineering and Design

SCALE AT A3  
**1:50**

DRAWN  
 TS

A	20.09.23	BLD PERMIT
REV	DATE	DESCRIPTION
		DRAWING S2003
		PROJECT NO. P2017





**PURE STYLE ENGINEERING**

Mr Roy Bailia  
 MEng MIEAust  
 MEM No. 5733086  
 DATE 20/09/2023



**GENERAL NOTES**

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**SECTION X**  
 SCALE 1:20

CLIENT  
 MOORA LAND GROUP

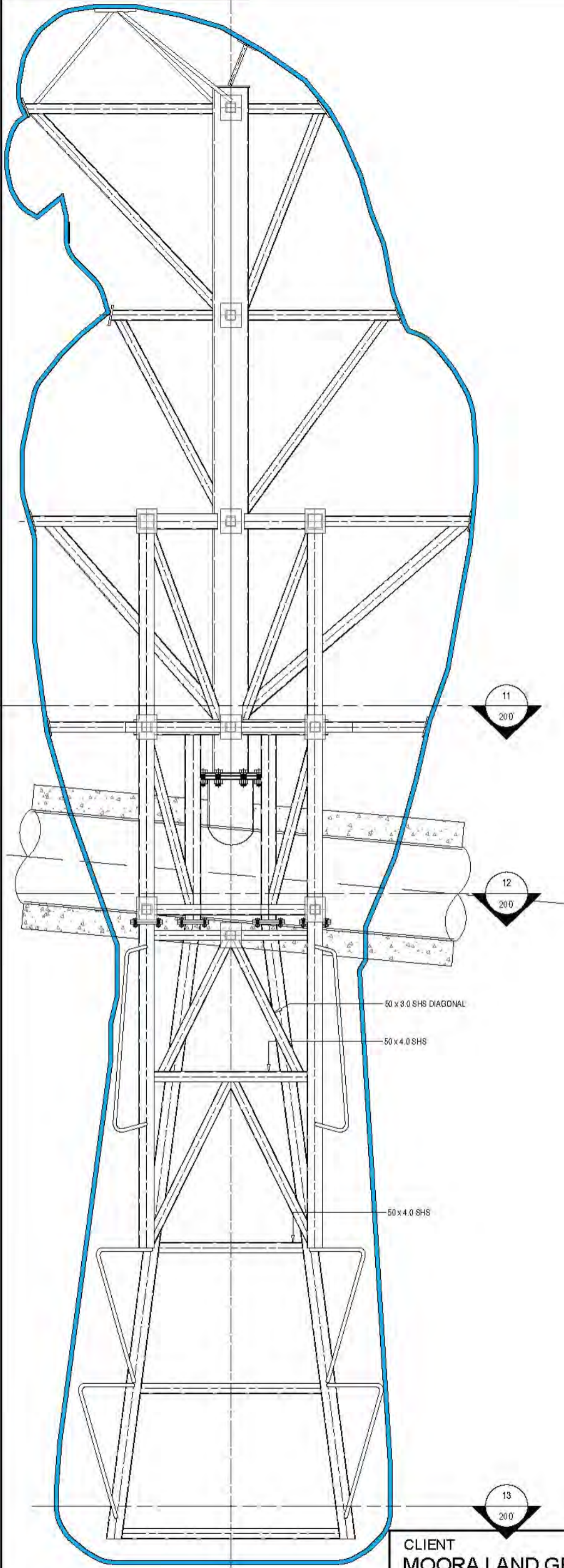
ADDRESS  
 CARNABY COCKATOO  
 SCULPTURE, MOORA

A	20.09.23	BLD PERMIT
REV	DATE	DESCRIPTION
SCALE AT A3	DRAWING	
-	2005	
DRAWN	PROJECT NO.	
RB	P2017	



DRAWING TITLE  
 SECTIONS SHEET 1





SECTION Y  
SCALE 1:20


**PURE STYLE ENGINEERING**

Mr Roy Balle *Ry B.*  
 MEng MIEAust  
 MEM No. 5733086  
 DATE 20/09/2023

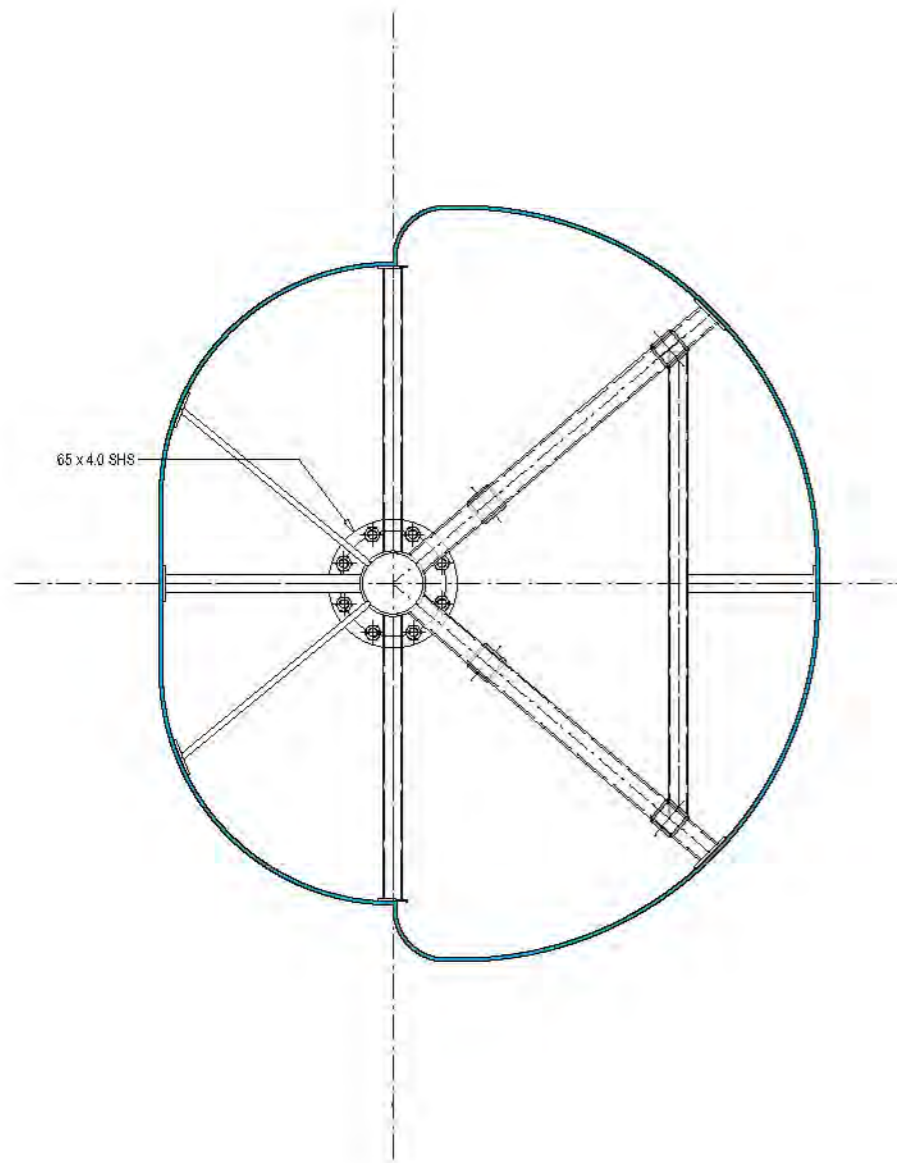


**GENERAL NOTES**

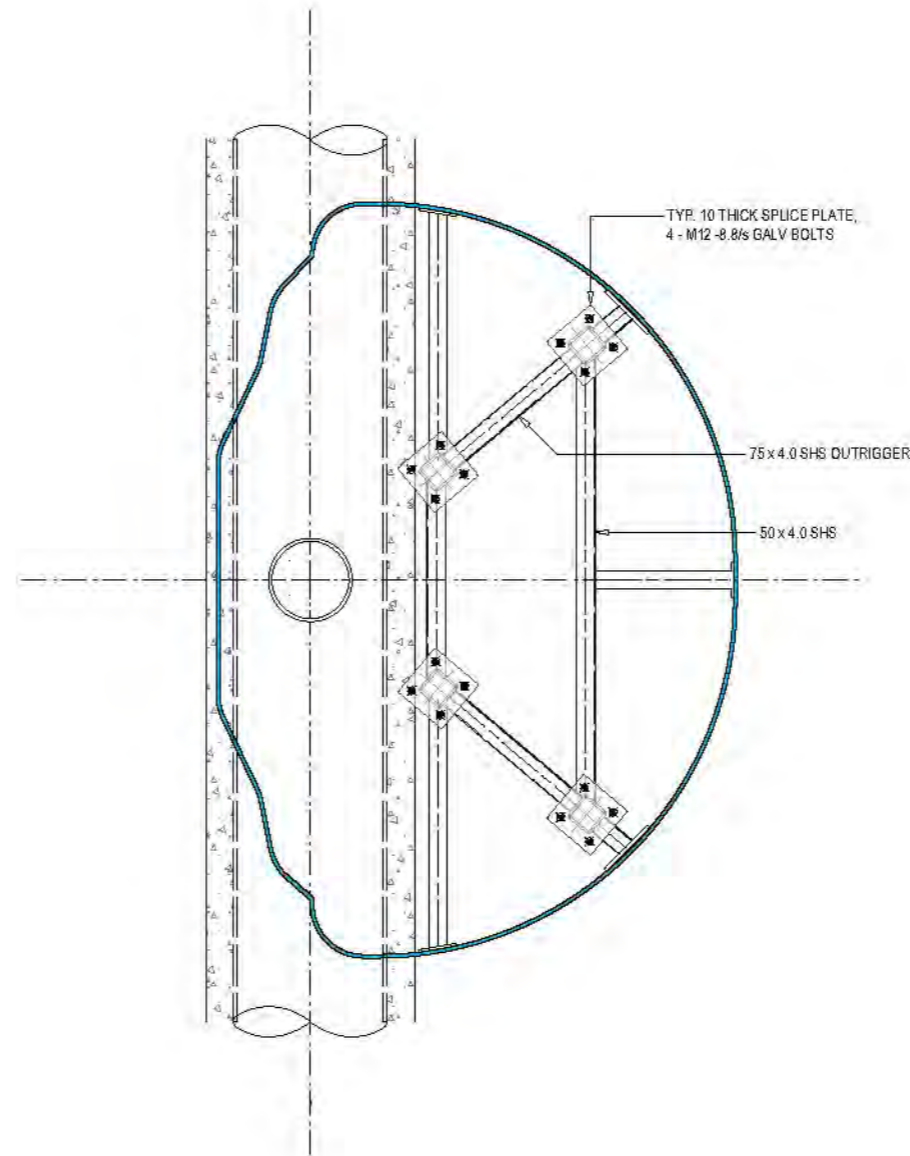
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CLIENT MOORA LAND GROUP	ADDRESS CARNABY COCKATOO SCULPTURE, MOORA	A	20.09.23	BLD PERMIT
		REV	DATE	DESCRIPTION
 <b>PURE STYLE</b> Engineering and Design	DRAWING TITLE SECTIONS SHEET 2	SCALE AT A3	DRAWING	
		-	2006	
		DRAWN RB	PROJECT NO. P2017	

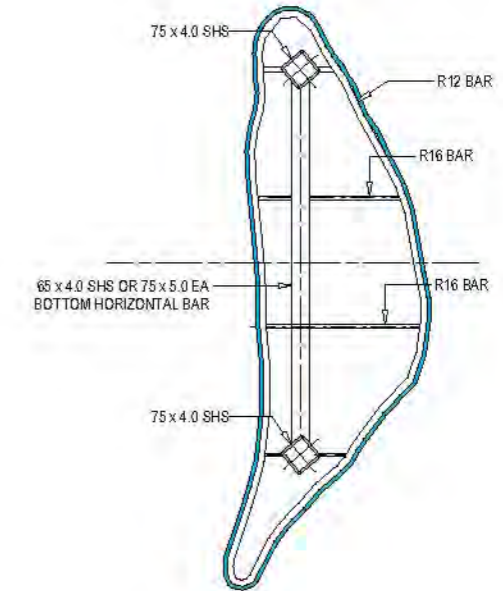




**SECTION DETAIL 11**  
SCALE 1:20



**SECTION DETAIL 12**  
SCALE 1:20



**SECTION DETAIL 13**  
SCALE 1:20

**PURE STYLE ENGINEERING**

Mr Roy Balle  
MEng MIEAust  
MEM No. 5739086  
DATE 20/09/2023



**GENERAL NOTES**

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CLIENT <b>MOORA LAND GROUP</b>	ADDRESS <b>CARNABY COCKATOO SCULPTURE, MOORA</b>	A	20.09.23	BLD PERMIT
		REV	DATE	DESCRIPTION
	DRAWING TITLE <b>SECTIONS SHEET 3</b>	SCALE AT A3	DRAWING <b>S2007</b>	
		DRAWN TS	PROJECT NO. <b>82017</b>	

**From:** David Joffe <davidj@natureworks.com.au>

**Sent:** Wednesday, February 15, 2023 2:35 PM

**To:** kdeepop2@bigpond.com

**Cc:** mcc.nrmo@bigpond.com; Tim <tim@natureworks.com.au>; David Joffe <davidj@natureworks.com.au>; Julie Margaglione <studio59artboutique@gmail.com>; Reception <info@natureworks.com.au>

**Subject:** Longevity and maintenance considerations of the giant Carnaby Cockatoos.

“ THE BEAUTY AND GENIUS OF A WORK OF ART MAY BE RECONCEIVED, THOUGH ITS FIRST EXPRESSION BE DESTROYED ; A VANISHED HARMONY MAY YET INSPIRE THE COMPOSER; BUT WHEN THE LAST INDIVIDUAL OF A RACE OF LIVING THINGS BREATHES NO MORE, ANOTHER HEAVEN AND ANOTHER EARTH MUST PASS BEFORE SUCH A ONE CAN BE AGAIN”

Hello Wes and Rachel and Topsy,

The estimated lifespan of the planned cockatoos to be fabricated is well upward of 50 years, **without** major rectification works. Our plan is to colour the cockatoos in the negative into the mould by pigmenting the UV stable polyester gelcoat being laid into and against the mould surface. As with a boat, it comes out pre-coloured, so there is no paint to fail. We can and do use a high-quality 2-pak polyurethane paint system, which also can well do the job, but we are prepared to undertake this slower system of gelcoat colouring to provide less ongoing maintenance. These birds are high up and will only require periodic cleaning with a water blaster operated from a boom lift. The cleaning time for this is likely to be 3 hours. Even with some surface dirt, the birds will still look natural and it is likely that the occasional rainstorm will remove much of whatever dust may accumulate. The access hatches to both birds will allow periodic inspection to assess the fully engineered galvanised steel sections within.

We have similar sculpts now well over 35 years old which are still holding up well, and we are the company brought in to consult and assess other suspect large art pieces some of which have suffered from the lack of an engineered professional approach. Please refer any interested parties to our BIG THINGS Catalogue.

Our history of undertaking these Big Things around Australia has resulted in never-ending requests to put towns and regions on the travel map with other large animal art features.

What is so significant, is that your dream of paying tribute to such an endangered animal will become a reminder to all of how bad some agriculture and farming practices have almost wiped out entire species, a good example of what almost happened to the Carnaby cockatoo..

The story of one man's endeavour, which, with a focussed support group has led to the recovery of this species is inspirational, and would be strongly supported by our first nation's people who lived in harmony with our wildlife for many thousands of years without the dreadful track record of over 200 extinctions in 200 years as a result of greed in the wake of the white man's invasion of this continent. I only hope that the project will get up and running before the death of Wally. This would be a tragedy.

### A PICTURE TELLS A THOUSAND WORDS

**Natureworks** would love to input into the planned future use of Apex Park, featuring a strong indigenous theme and we offer our services to the council to input creative thought and design **at no cost** to allow concept art to help all stakeholders develop a path forward to help develop a memorable visitor experience for the future of Apex Park. This park should strongly embrace the sentiments and values dear to **first nation,s people**. Every structure and investment on this site could have the spirit of the local indigenous people breathed into its design, whether it be a playground, a mini golf course, a naturally themed meeting site, a natural lagoon, an amenities block or a shelter shed, basketball court or a football field. It could be a great opportunity for local children to engage with the landscape so as to promote HEALTHY MISCHIEF!!

Please refer to [www.natureworks.com.au](http://www.natureworks.com.au) and **look at the playground and indigenous catalogues.**

**If council is interested we will send previous indiginous design documentation we have created for other Australian sites.**

**Let Wally's dream inspire another round of creative endeavour !.**

Kind Regard  
David Joffe

**Natureworks Pty Ltd**

732 Mt Glorious Rd Highvale Qld 4520 Australia

Ph: (61 7) 3289 7555 / Fax: (61 7) 3289 7788 Email: [info@natureworks.com.au](mailto:info@natureworks.com.au)

For more information, visit us on the web: [www.natureworks.com.au](http://www.natureworks.com.au)

