



NORTHERN TERRITORY OF AUSTRALIA BUILDING ACT  
SECTION 40 – CERTIFICATE OF COMPLIANCE  
STRUCTURAL DESIGN

**All sections must be completed – mark N/A to any question that does not apply**

PROPERTY / PROJECT DETAILS		JOB NO: WGA220562
Owner (if known):		
Lot/Portion Number: 230 & 296	Address: 94 Main Terrace & 11 Railway Terrace	
Location:	Town / Hundred: Pine Creek	
Description of works: Bird Hides		

DOCUMENTS ATTACHED
Drawing Nos: 2022-09/0 to 11/0 & 15/0 to 18/0
Other: General Structural Notes

DESIGN BASIS (please list relevant Standards used in the design)			
AS1170.0, AS1170.1, AS1170.2, AS1170.4, AS2870, AS3798, AS3600, AS3700, AS4100, AS4600, AS1720, AS1684			
Class of Building (BCA):		Type of Construction (BCA volume 1 §C1.1): (eg. Type A fire-resisting construction)	
Building Importance Level (BCA Table B1.2a): 2		Annual Probability of Exceedance for Wind (BCA Table 1.2b): 1 in 500	
Region: A	Regional ultimate wind speed $V_R$ (m/s): 45	Terrain Category: 2	Reference height (m): 3
$M_{z,cat}$ : 0.91	$M_s$ : 1.0	$M_t$ : 1.0	$V_{des}$ Design Wind Speed at reference height (m/s): 41
Internal Pressure Coefficients ( $C_{p,i}$ ):	N/A		
External Pressure Coefficients ( $C_{p,e}$ )	Walls	N/A	
	Roof	N/A	
Net Pressure Coefficients: ( $C_{p,n}$ )	Roof / Walls	To AS1170.2 Appendix B	
Imposed Loads, kPa	Floor / Roof	Roof: (1.8/A+0.12) kPa but not less than 0.25kPa, where A is the area supported by the member. Floors: 2.0	
Earthquake Design Category, EDC (Table 2.1 of AS 1170.4): N/A			
Annual Probability of Exceedance for Earthquake Actions (BCA Table 1.2b): N/A			
Importance Level (BCA): N/A		Hazard Factor, Z (Section 3): N/A	
Class of Sub-Soil (Section 4): N/A			
Safe Foundation Bearing Capacity, kPa: 100 min			
Site classification (AS2870): Assumed S or A – to be confirmed prior to construction by others.			

COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).
The following items are excluded and shall be certified separately:
- Signage/interpretive boards
Comments:
-

CERTIFICATION BY STRUCTURAL ENGINEER			
Company Name		Company NT Registration Number	
Rodeghiero Fong & Partners Pty Ltd		43460ES	
trading as Wallbridge Gilbert Aztec RFP			
I certify that reasonable care has been taken to ensure that the structural engineering aspects of the works as described above have been designed in accordance with the requirements of the Building Code of Australia and the Northern Territory Building Regulations.			
Name (see *below)	Nominee/Individual NT Registration Number	Signature	Date
Bede Rodeghiero	12648ES		20/02/2023

\* Name and registration number of nominee signing on behalf of the company or if no company, name of individual issuing certification.

## **SCHEDULE OF STRUCTURAL INSPECTIONS REQUIRED**

Inspection of construction is required at the stages indicated below.

- 1. Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete. Note: This inspection not carried out by Wallbridge Gilbert Aztec RFP.
  - 2. Completion of preparations for placing of concrete strip footings including placement of reinforcement.
  - 3. Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.
  - 4. Completion of preparations for placing of concrete pier footings including reinforcement (if any).
  - 5. Starter bars and cast in items after placing of concrete and prior to any covering up work.
  - 6 Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).
  - 7. Structural steelwork and cold formed steelwork completed and prior to any covering up work. Floor framing system completed before floors are laid or underside is lined.
  - 8. Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.
  - 9. Wall framing or blockwork wall core filling completed (with windows fixed in place) and roof framing with connections completed and prior to sheeting or lining.
- Note:  Prior lodgement of truss manufacturer's drawings, details and certification required.  
 Prior lodgement of windows manufacturer's drawings including fixings and certification required.
- 10. Structural wall linings completed and prior to any covering up work.
  - 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings.
  - 12. Other Inspections as required by the building permit

### **Important Information:**

- 1) The above inspections are required to be carried out by either the certifying engineer or the building certifier who issued the Building Permit for the work. (If no inspections are indicated refer to the certifying engineer for advice).
- 2) Where works are prescribed building works under the *NT Building Act*, the building certifier must be provided with a copy of the inspection record and no further works must be carried out by the builder until the building certifier issues a release to proceed with further works.
- 3) Additional non-structural inspections may be required during the course of construction before the issue of an Occupancy Permit (refer to building certifier for requirements).
- 4) Failure to obtain inspections may prevent the issue of an Occupancy Permit upon completion of the building works.





**DRAWING SCHEDULE**

- 01 TITLE PAGE / CONTEXT PLAN
- 02 PINE CREEK PLAN
- 03 PARK PLAN
- 04 SITE 1 PLAN HERITAGE PARK
- 05 SITE 2 PLAN WATER GARDEN

**INTERPRATIVE SHADE STRUCTURE 1**

- 06 PLANS AS LABELLED
- 07 ELEVATIONS AS LABELLED
- 08 SECTIONS AS LABELLED
- 09 DETAILS AS LABELLED
- 10 STRUCTURAL PLANS AS LABELLED
- 11 STRUCTURAL SECTIONS AS LABELLED

**INTERPRATIVE SHADE STRUCTURE 2**

- 12 PLANS AS LABELLED
- 13 ELEVATIONS AS LABELLED
- 14 SECTIONS AS LABELLED
- 15 STRUCTURAL PLANS AS LABELLED
- 16 STRUCTURAL SECTIONS AS LABELLED
- 17 STRUCTURAL DETAILS AS LABELLED

**INTERPRATIVE SHADE STRUCTURE 1+2**

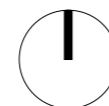
- 18 1 + 2 FOOTING DETAILS
- 19 1+2 - LASER CUT SCREENS
- 20 1+2 3DS

FOR CONSTRUCTION ISSUE

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**TITLE PAGE / CONTEXT PLAN**

0	17.02.2023	FOR CONSTRUCTION ISSUE
ISSUE	DATE	AMENDMENT

Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	01
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



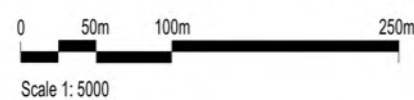


FOR CONSTRUCTION ISSUE

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**PINE CREEK SITE LOCATION PLAN**

0	17.02.2023	FOR CONSTRUCTION ISSUE
ISSUE	DATE	AMENDMENT

Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	<b>02</b>
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB





FOR CONSTRUCTION ISSUE

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**SITE LOCATION PLAN**

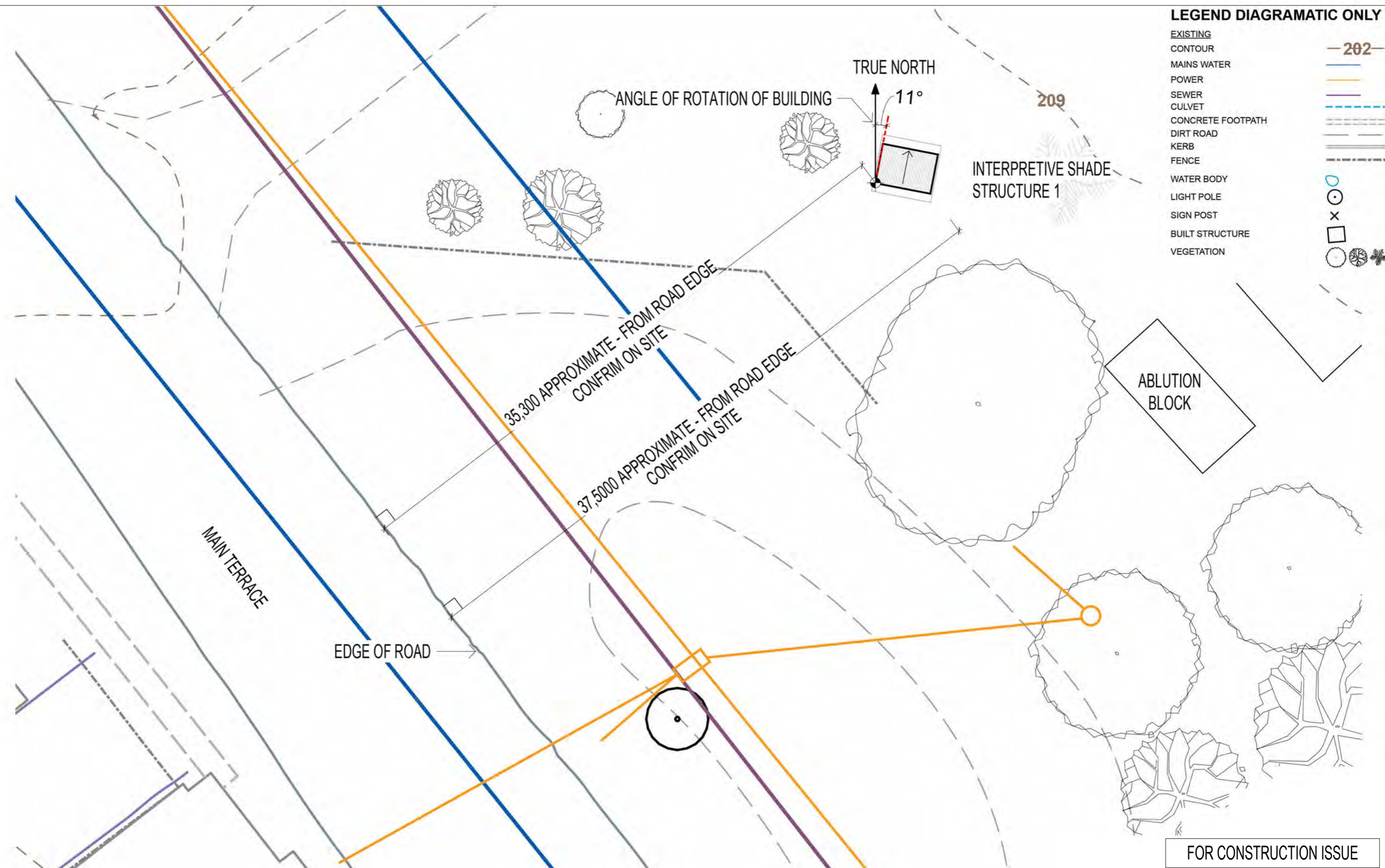
0	17.02.2023	FOR CONSTRUCTION ISSUE
ISSUE	DATE	AMENDMENT

Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	03
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



**LEGEND DIAGRAMATIC ONLY**

- EXISTING CONTOUR — 202 —
- MAINS WATER — (blue) —
- POWER — (orange) —
- SEWER — (purple) —
- CULVET — (dashed blue) —
- CONCRETE FOOTPATH — (dashed grey) —
- DIRT ROAD — (dashed black) —
- KERB — (double line) —
- FENCE — (dashed black) —
- WATER BODY — (blue wavy) —
- LIGHT POLE — (circle with dot) —
- SIGN POST — (circle with cross) —
- BUILT STRUCTURE — (square) —
- VEGETATION — (various symbols) —

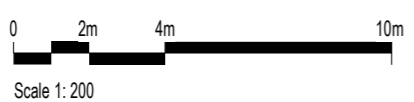


**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**SITE 1 PLAN HERITAGE PARK**

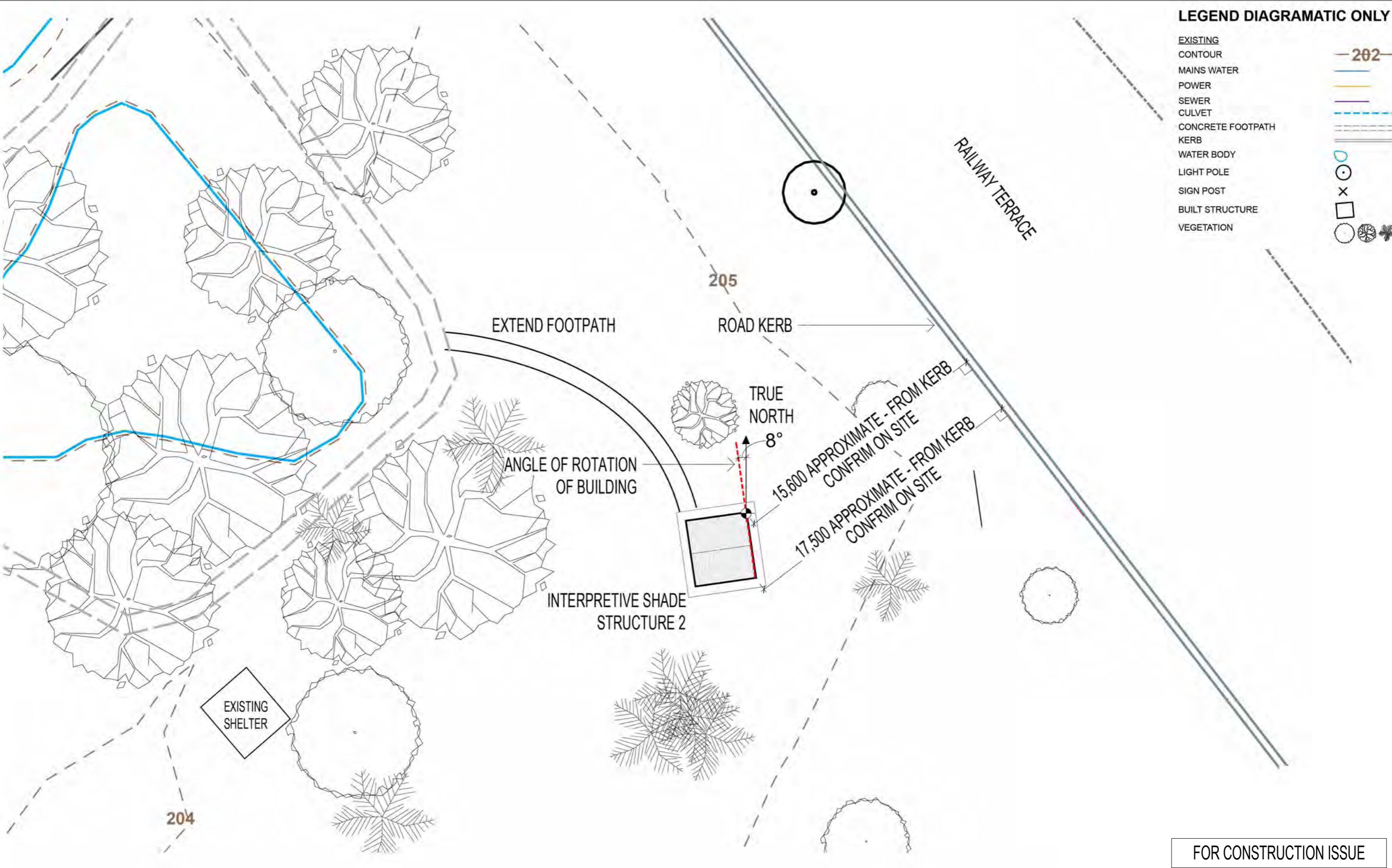
ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	<b>04</b>
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



**LEGEND DIAGRAMATIC ONLY**

- EXISTING CONTOUR
- MAINS WATER
- POWER
- SEWER
- CULVET
- CONCRETE FOOTPATH
- KERB
- WATER BODY
- LIGHT POLE
- SIGN POST
- BUILT STRUCTURE
- VEGETATION



FOR CONSTRUCTION ISSUE

**tropo architects** ©  
 15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.

0 2m 4m 10m  
 Scale 1: 200

**PINE CREEK BIRD HIDES**  
 VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**SITE 2 PLAN WATER GARDEN**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

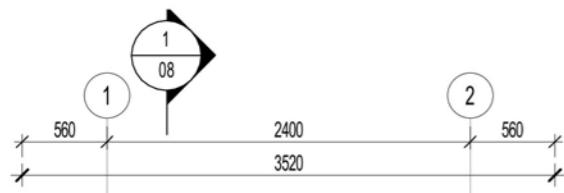
Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	05
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB

**ROOF MATERIAL KEY**

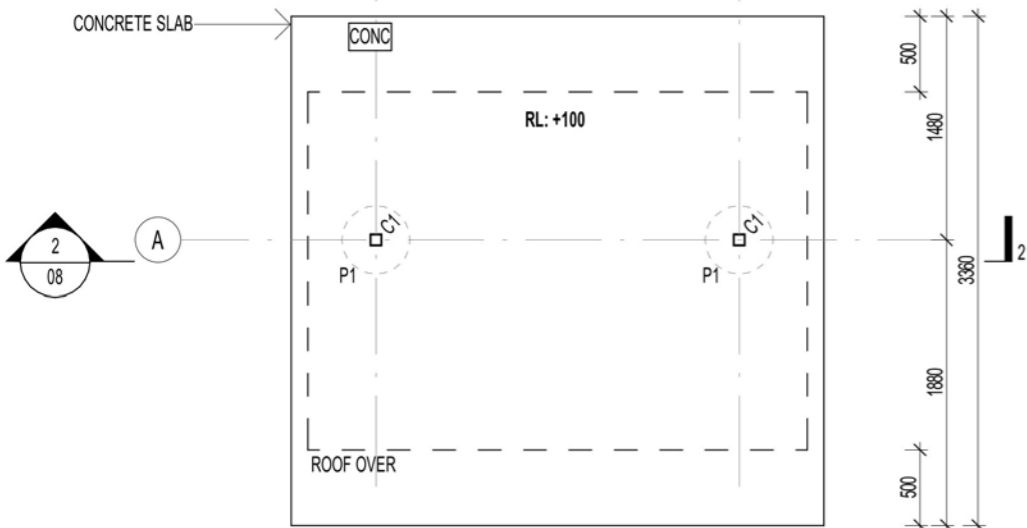
CO(Z) 0.48BMT METAL ZINCALUME CUSTOM ORB ROOF SHEETING; PITCH AS INDICATED; FIX TO DTC M312/01

**FLOOR MATERIALS KEY**

CONC CONCRETE SLAB; CCS PRAIRIE OXIDE, HAND SCATTERED AGGREGATE; TERRITORY OCHRE 7MM - 10MM

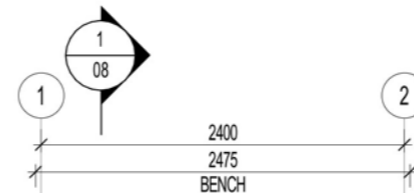


NGL: 0

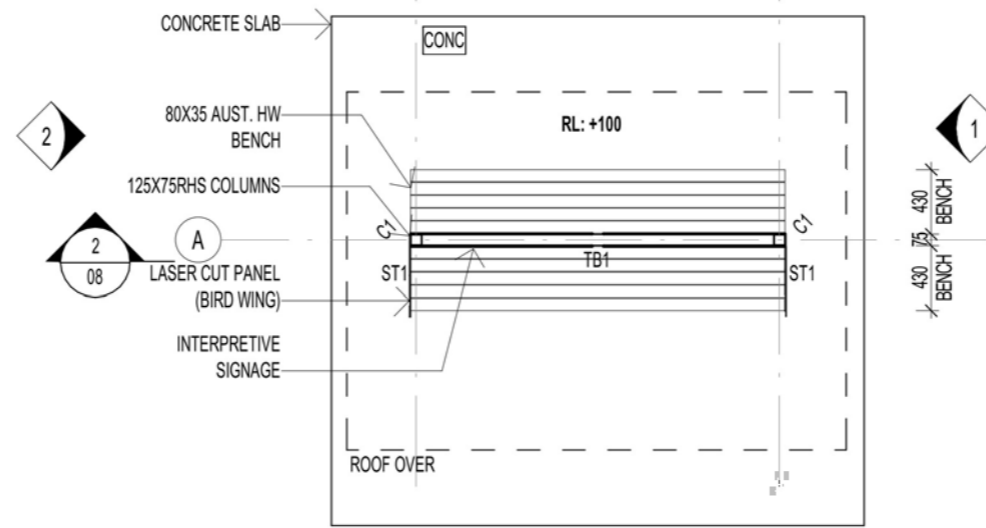


**SLAB PLAN**

1:50

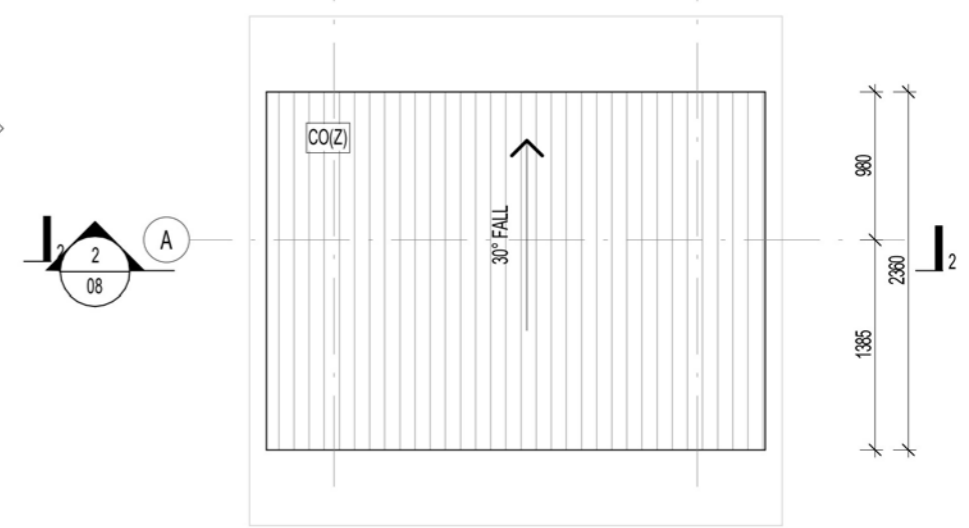
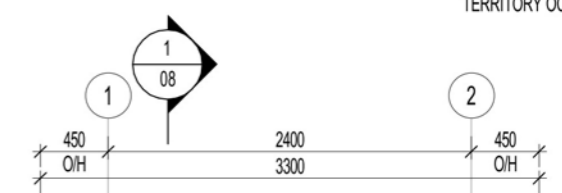


NGL: 0



**GROUND FLOOR PLAN**

1:50



**ROOF PLAN**

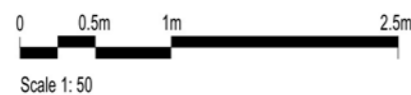
1:50

**FOR CONSTRUCTION ISSUE**

**tropo architects**

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



Scale 1:50

**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**PLANS AS LABELLED**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	1:50 @ A3	Dwg No:	06
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB

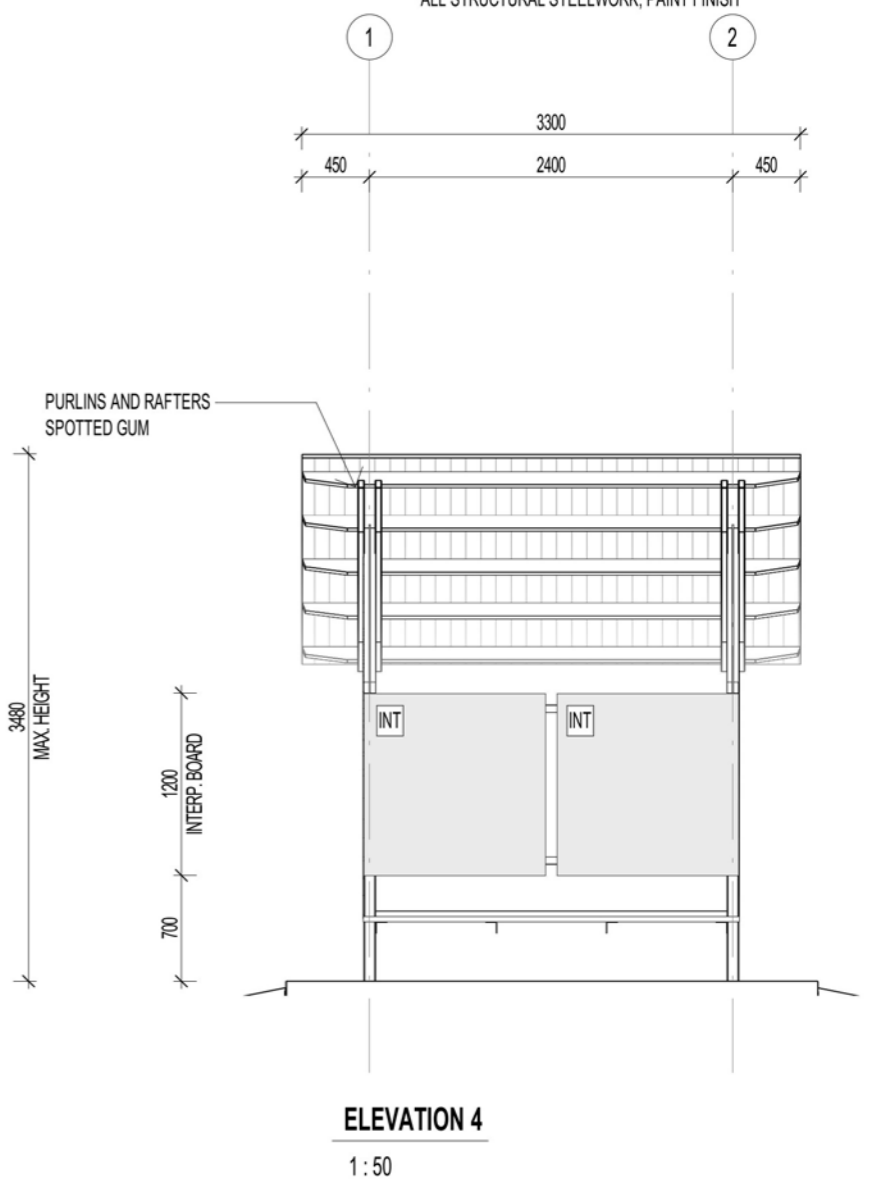
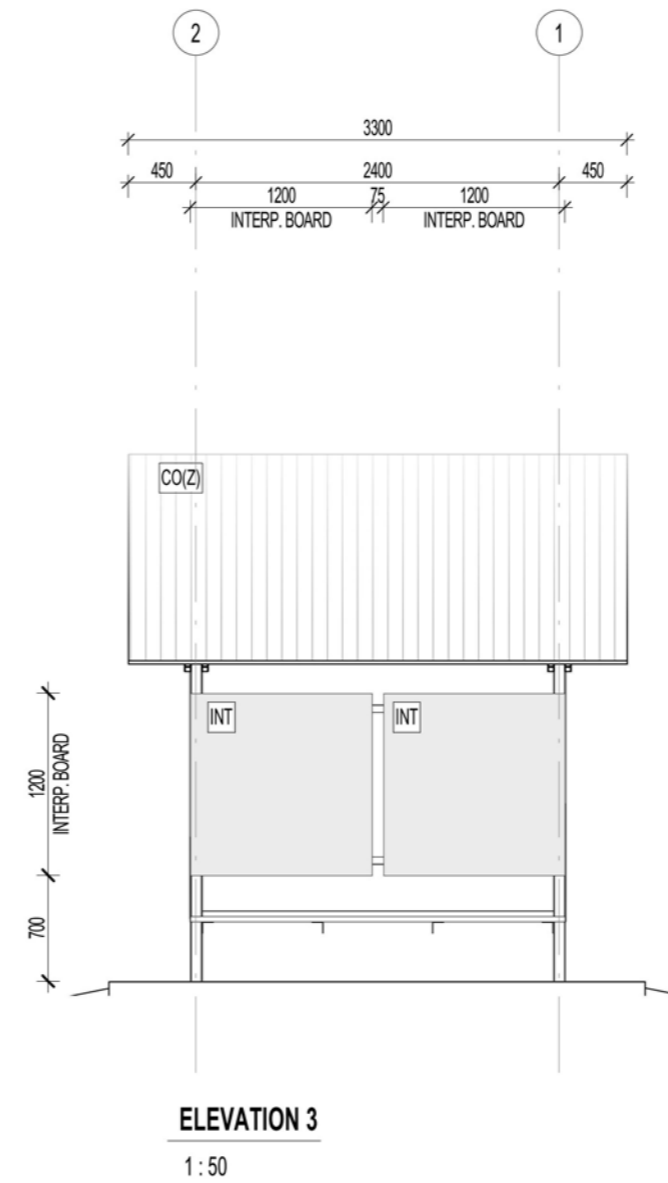
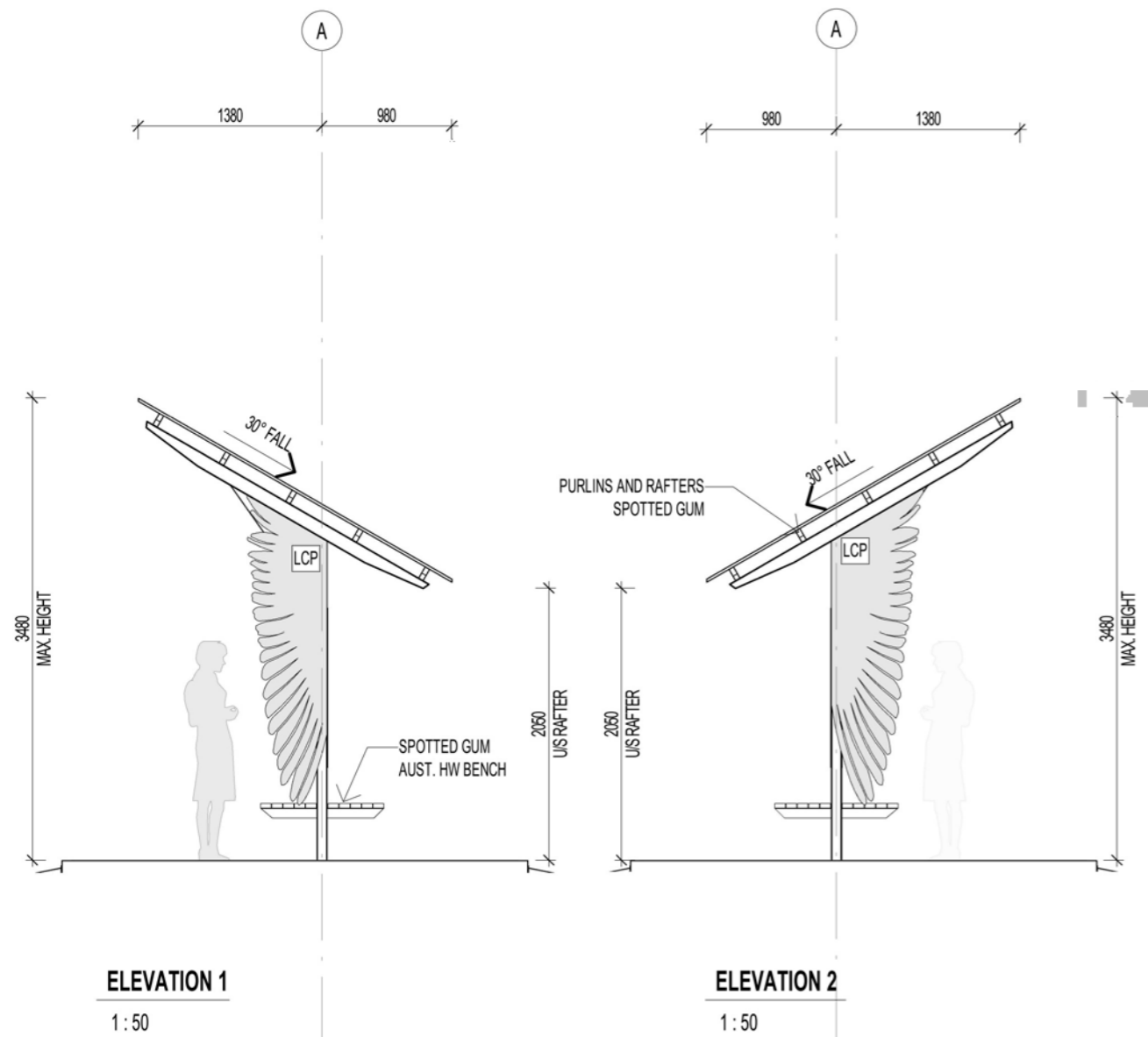


**MATERIAL KEY**

- CO(Z) 0.42BMT METAL COLORBOND CUSTOM ORB ROOF SHEETING; PITCH AS INDICATED; SURFMIST MATTE; FIX TO DTC M/312/01
- LCP 6MM MILD STEEL LASERCUT SCREEN; POWDERCOATED FINISH
- INT INTERPRETATION BOARD; BY OTHERS

**FINISH NOTES:**

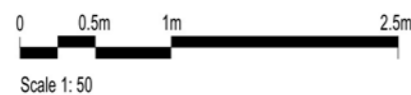
- ALL AUST. HW ; SPOTTED GUM, D.A.R, OIL FINISH
- ALL STRUCTURAL STEELWORK; PAINT FINISH



**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**ELEVATIONS AS LABELLED**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

**FOR CONSTRUCTION ISSUE**

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	07
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

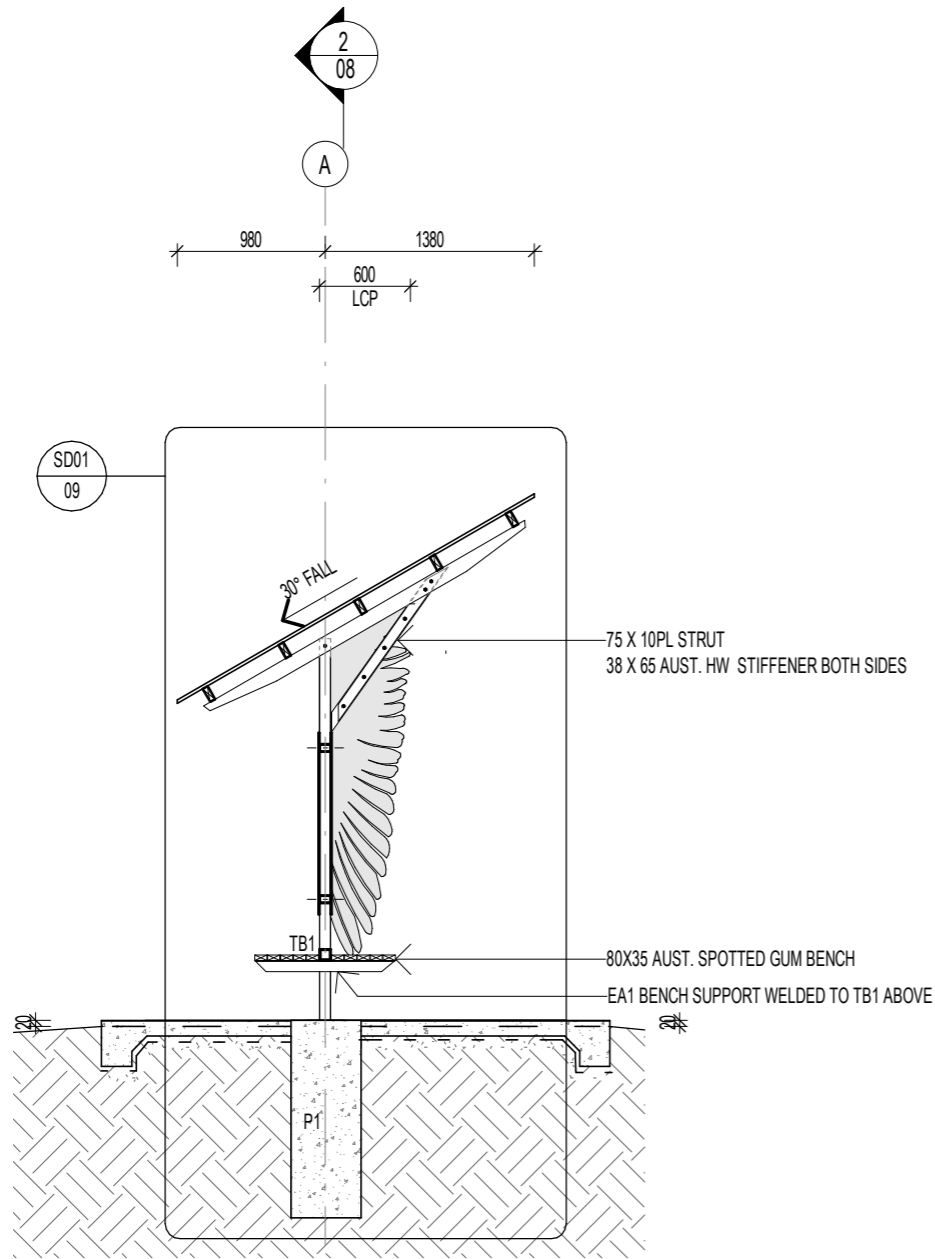
- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

**ROOF FRAMING MEMBER SCHEDULE**

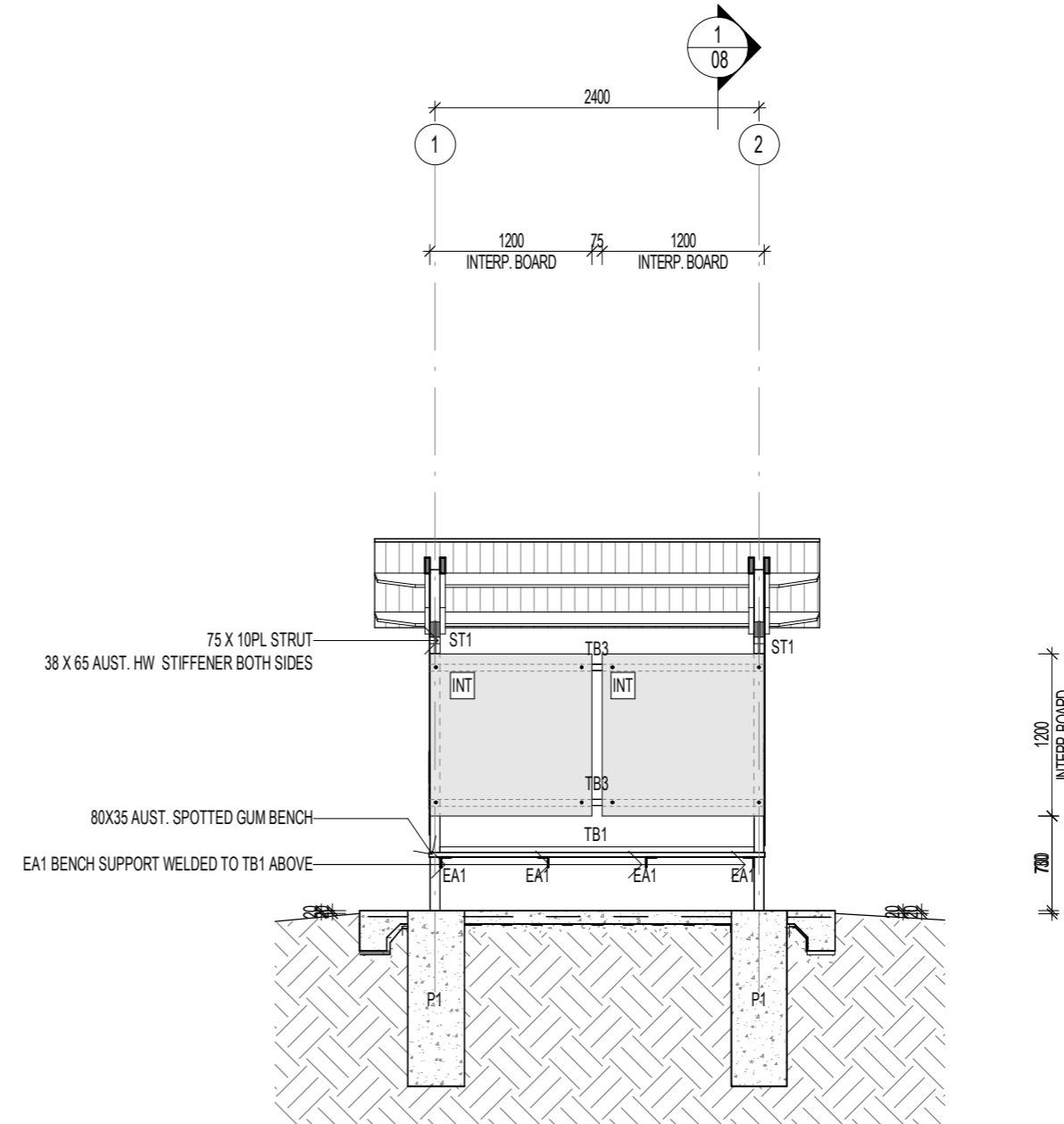
- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFENER BOTH SIDES



**SECTION 1**

1:50

2



**SECTION 2**

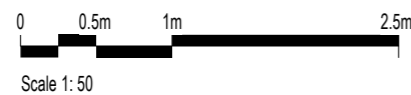
1:50

1

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**SECTIONS AS LABELLED**

FOR CONSTRUCTION ISSUE			Job No:	2022 <th>Issue:</th> <td>0 </td>	Issue:	0
Scale:		1:50	@ A3			
Issue Date:		17.02.2023		Dwg No:		
Drawn:		PB	Checked:	JB	<b>08</b>	
0	17.02.2023	FOR CONSTRUCTION ISSUE				
ISSUE	DATE	AMENDMENT				







**CONCRETE NOTES**

- CONCRETE SLABS TO BE AS FOLLOWS:
- 100 THICK WITH MINIMUM SL82, 40 TOP COVER
  - CONCRETE GRADE 32MPa
  - 250WIDE X 250DEEP MASS CONCRETE EDGE
  - THICKENING TO FREE EDGES.
  - 0.2mm APPROVED DPM UNDER.
  - MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS
  - FOOTINGS TO BE 25MPa
  - COLUMNS TO BE LOCATED CENTRALLY OVER FOOTINGS TYPICAL

**FOOTING NOTES**

1. PIER FOOTINGS TO BE FOUNDED FULL DEPTH INTO FIRM NATURAL GROUND
2. FOOTING DEPTHS SPECIFIED ARE A MINIMUM ONLY AND MAY NEED TO BE INCREASED TO ACHIEVE THE REQUIRED FOUNDING LEVEL
3. FOOTINGS TO BE LOCATED CENTRALLY UNDER COLUMNS

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

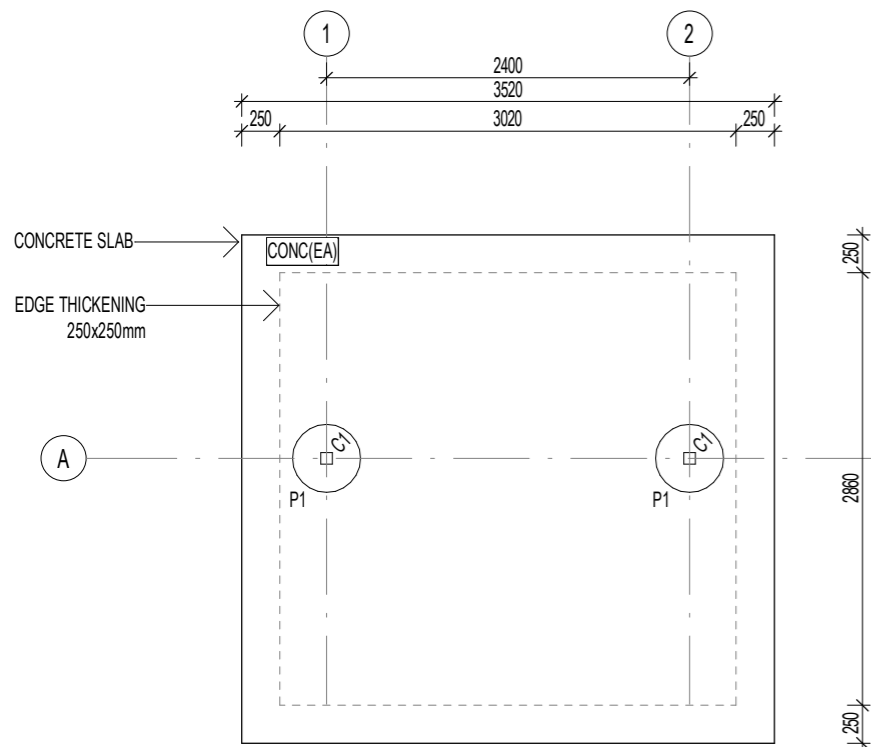
- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

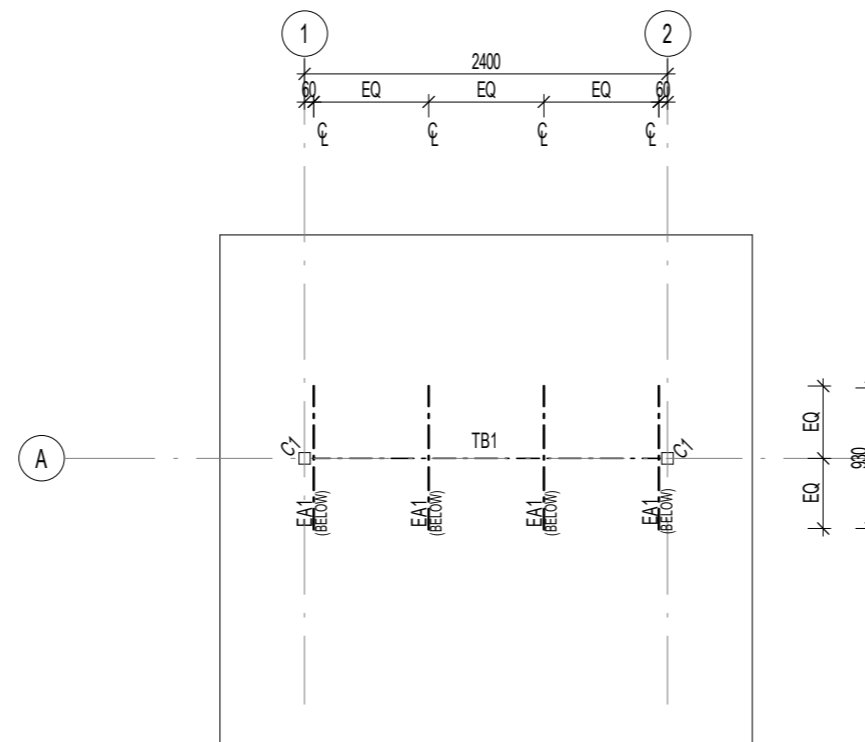
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



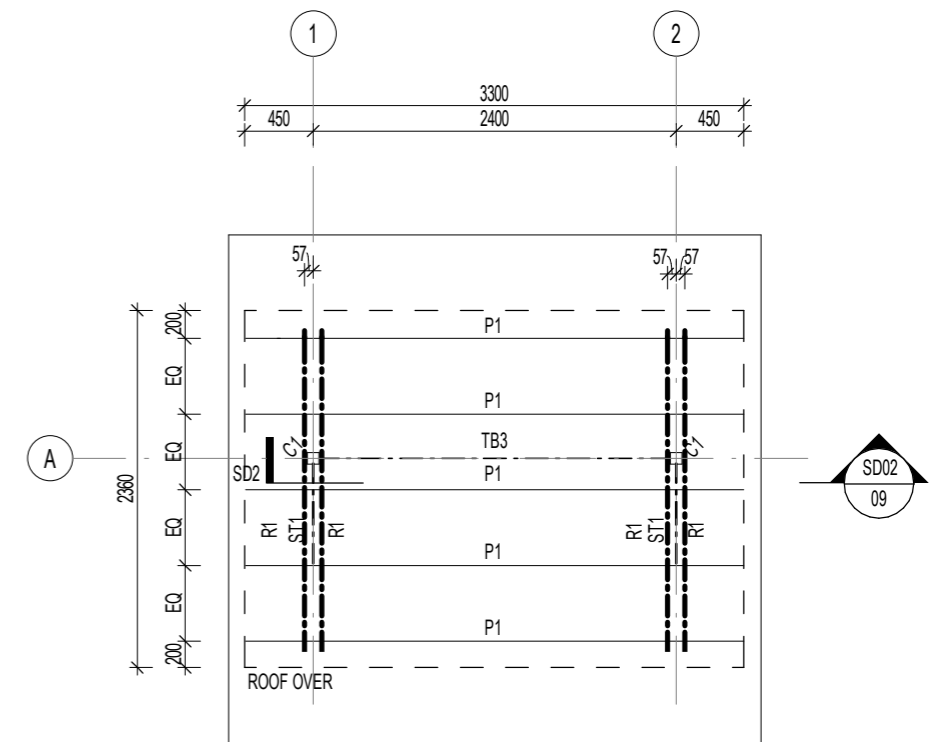
**FOOTING PLAN**

1:50



**FRAMING PLAN**

1:50



**ROOF FRAMING PLAN**

1:50

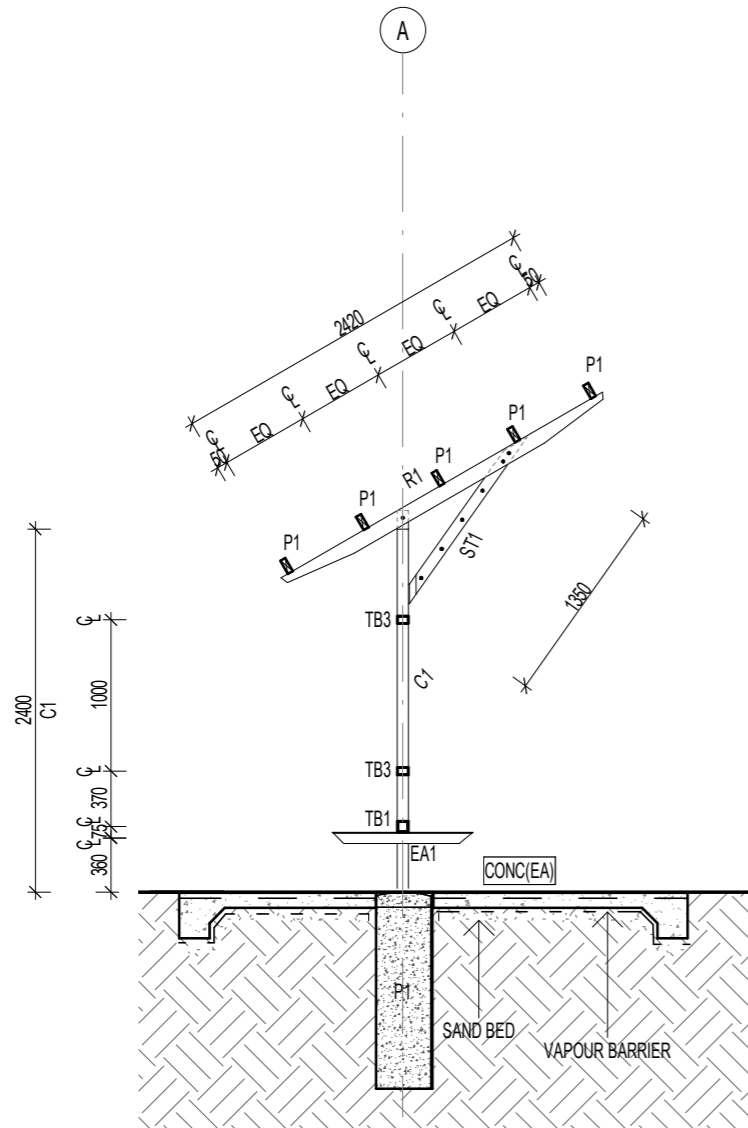
**FOR CONSTRUCTION ISSUE**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	10
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB

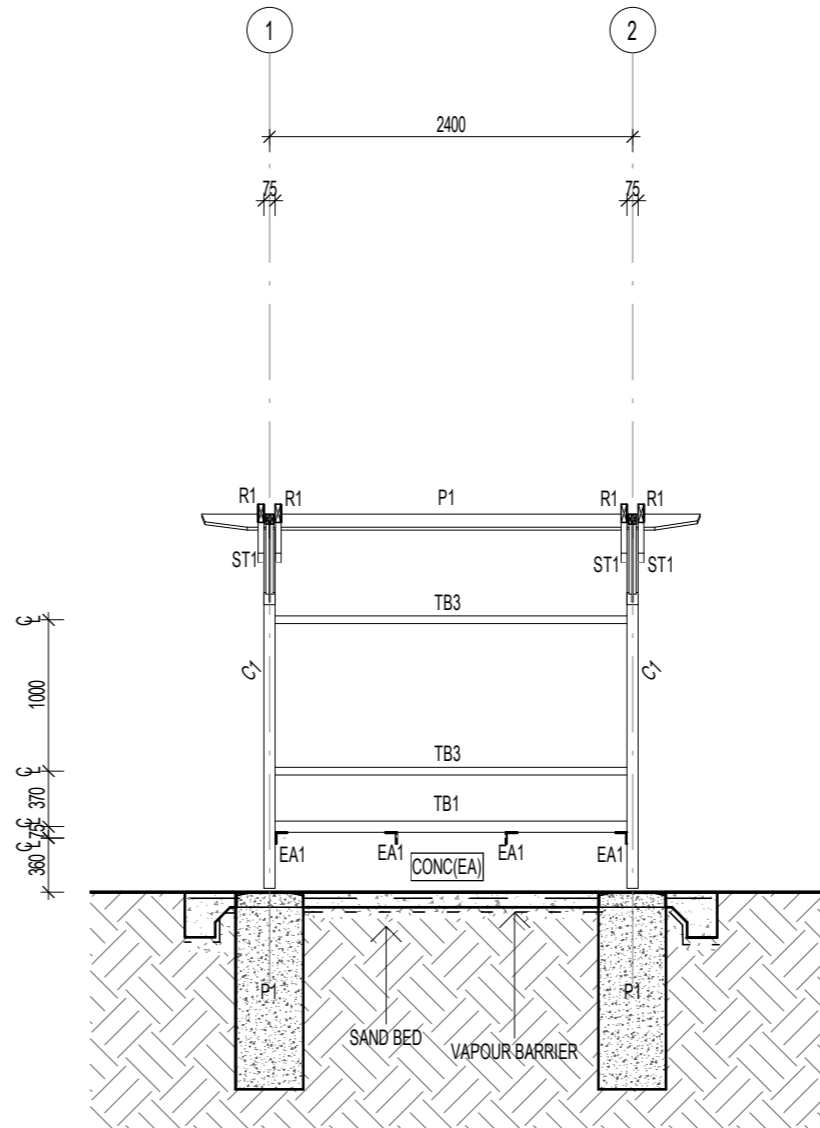


Date: ...20/02/2023...  
 Ref No: ...WGA220562...  
 Structural Engineering  
 Concluded By: *[Signature]*  
 43460ES



**STRUCTURAL SECTION 2**

1:50



**STRUCTURAL SECTION A**

1:50

**CONCRETE NOTES**

- CONCRETE SLABS TO BE AS FOLLOWS:
- 100 THICK WITH MINIMUM SL82, 40 TOP COVER
  - CONCRETE GRADE 32MPa
  - 250WIDE X 250DEEP MASS CONCRETE EDGE
  - THICKENING TO FREE EDGES.
  - 0.2mm APPROVED DPM UNDER.
  - MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS
  - FOOTINGS TO BE 25MPa
  - COLUMNS TO BE LOCATED CENTRALLY OVER FOOTINGS TYPICAL

**FOOTING NOTES**

1. PIER FOOTINGS TO BE FOUNDED FULL DEPTH INTO FIRM NATURAL GROUND
2. FOOTING DEPTHS SPECIFIED ARE A MINIMUM ONLY AND MAY NEED TO BE INCREASED TO ACHIEVE THE REQUIRED FOUNDING LEVEL
3. FOOTINGS TO BE LOCATED CENTRALLY UNDER COLUMNS

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES

**FOR CONSTRUCTION ISSUE**

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	11
Issue Date:	17.02.2023	Drawn:	PB
AMENDMENT		Checked:	JB
0	17.02.2023	FOR CONSTRUCTION ISSUE	
ISSUE	DATE	AMENDMENT	

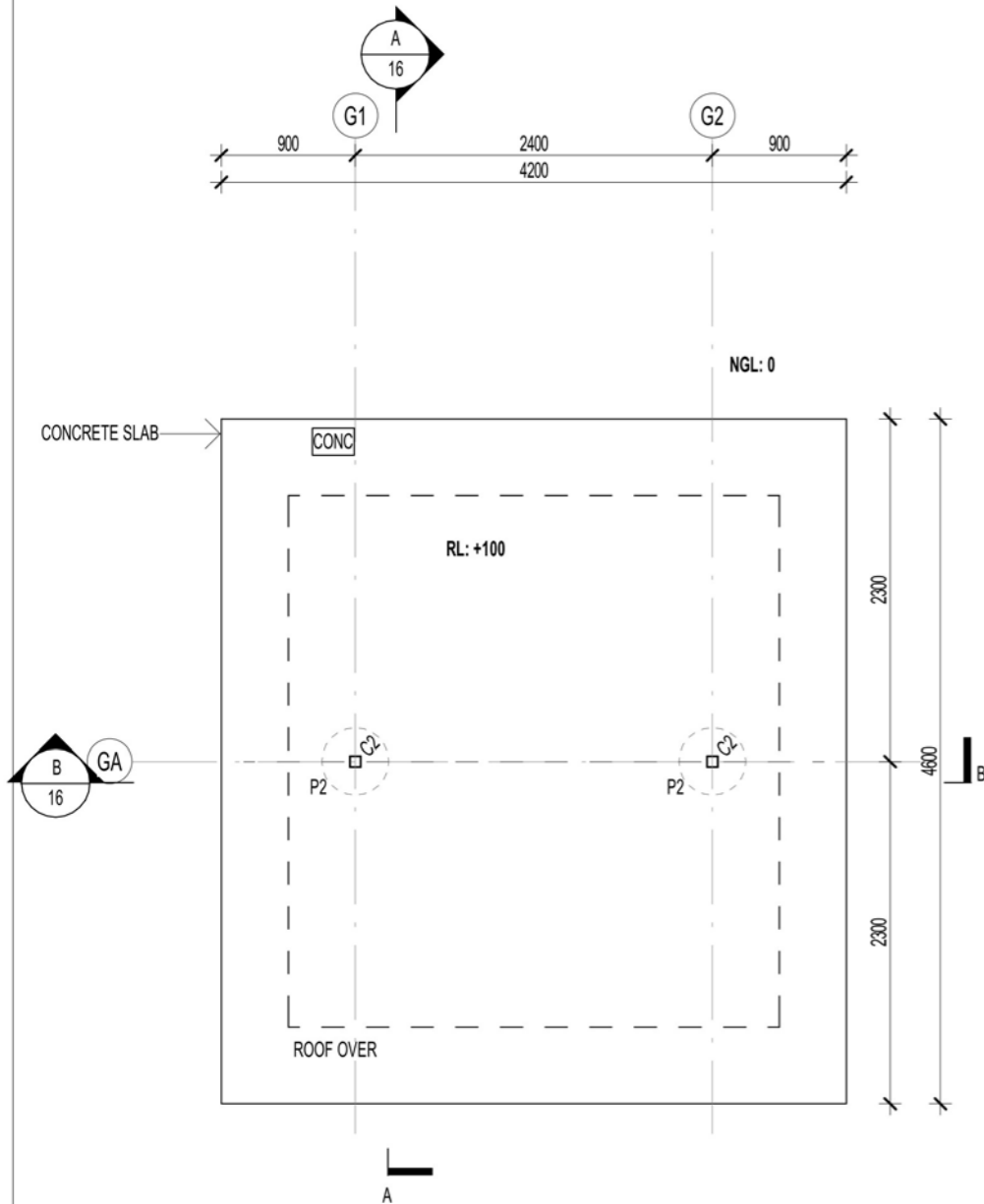


**ROOF MATERIAL KEY**

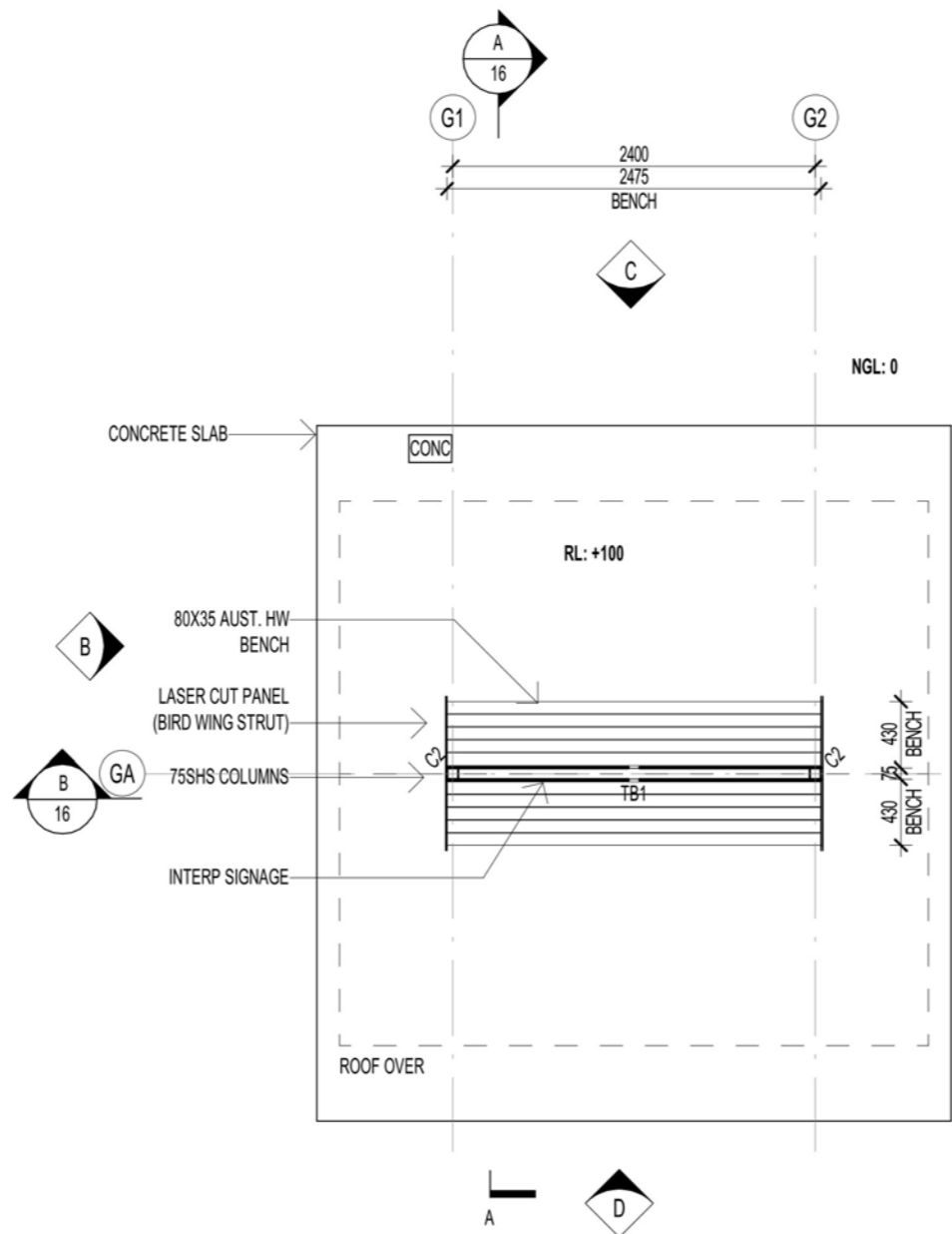
CO(Z) 0.48BMT METAL ZINCALUME CUSTOM ORB ROOF SHEETING; PITCH AS INDICATED; FIX TO DTC M312/01

**FLOOR MATERIALS KEY**

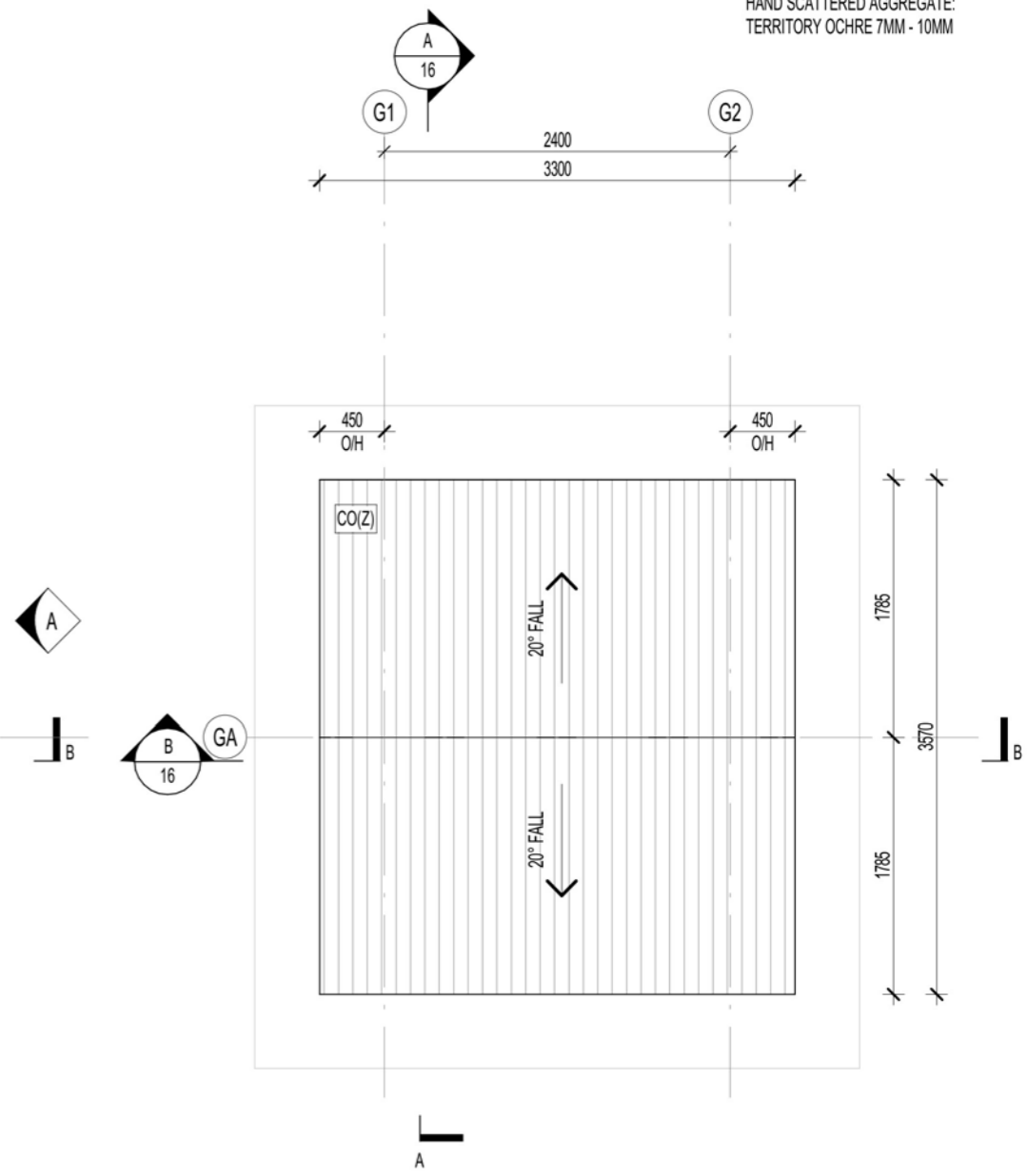
CONC CONCRETE SLAB; CCS PRAIRIE OXIDE, HAND SCATTERED AGGREGATE; TERRITORY OCHRE 7MM - 10MM



**SLAB PLAN.**  
1:50



**GROUND FLOOR PLAN.**  
1:50



**ROOF PLAN.**  
1:50

**FOR CONSTRUCTION ISSUE**

**tropo architects**  
15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.

0 0.5m 1m 2.5m  
Scale 1:50

**PINE CREEK BIRD HIDES**  
VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**PLANS AS LABELLED**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	1:50 @ A3	Dwg No:	12
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB

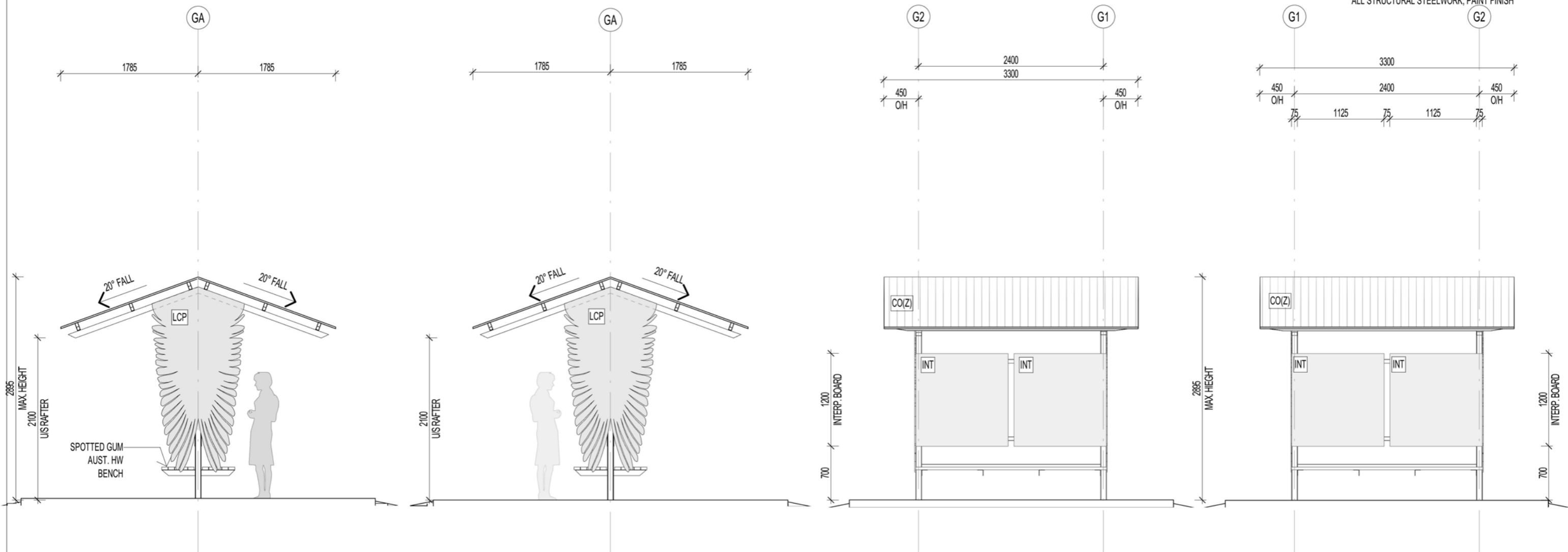


**MATERIAL KEY**

- CO(Z) 0.42BMT METAL COLORBOND CUSTOM ORB ROOF SHEETING; PITCH AS INDICATED; SURFMIST MATTE; FIX TO DTC M/312/01
- LCP 6MM MILD STEEL LASERCUT SCREEN; POWDERCOATED FINISH
- INT INTERPRETATION BOARD; BY OTHERS

**FINISH NOTES:**

- ALL AUST. HW ; SPOTTED GUM, D.A.R, OIL FINISH
- ALL STRUCTURAL STEELWORK; PAINT FINISH



**ELEVATION A**

1 : 50

**ELEVATION B**

1 : 50

**ELEVATION C**

1 : 50

**ELEVATION D**

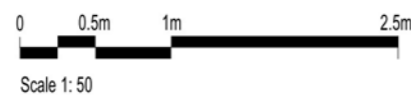
1 : 50

**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**ELEVATIONS AS LABELLED**

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	13
Issue Date:	17.02.2023	Drawn:	PB
Issue	DATE	Checked:	JB
0	17.02.2023	FOR CONSTRUCTION ISSUE	AMENDMENT

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

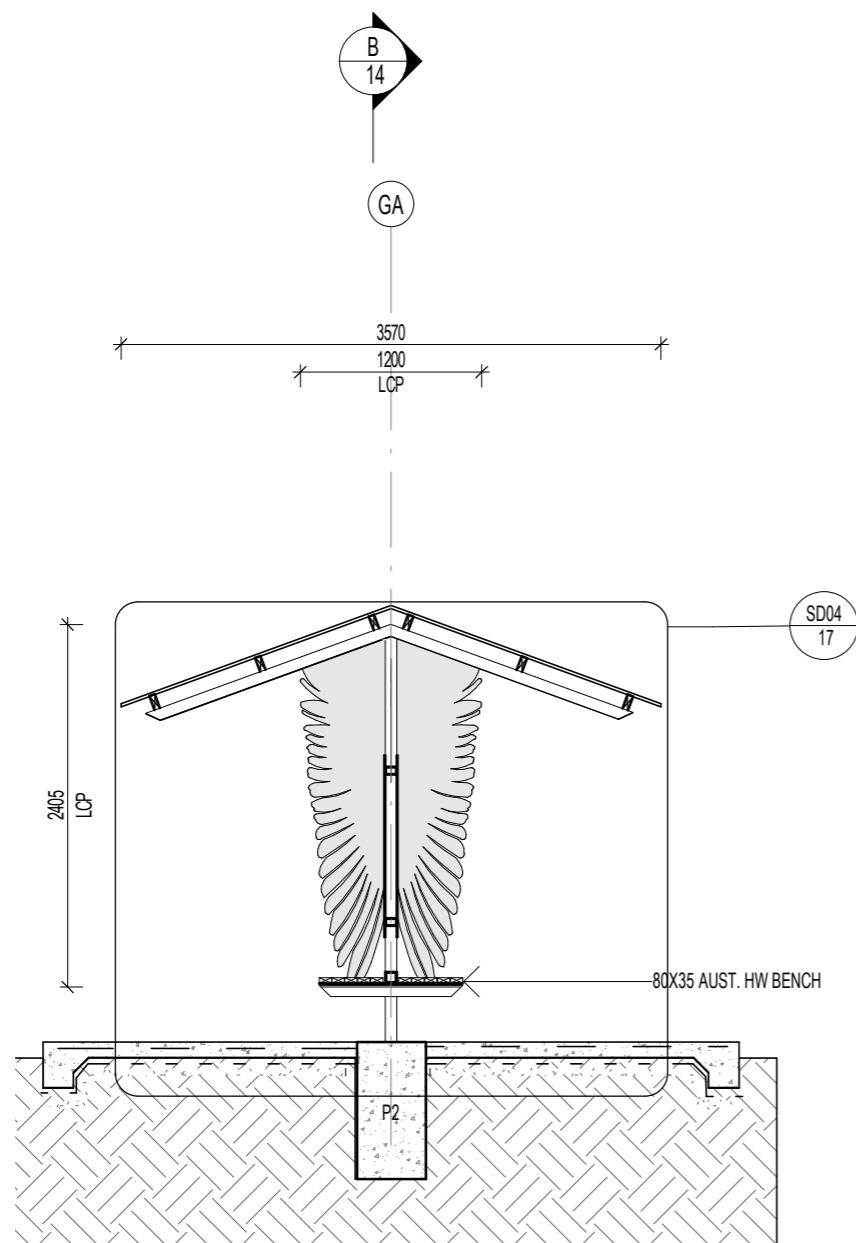
- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

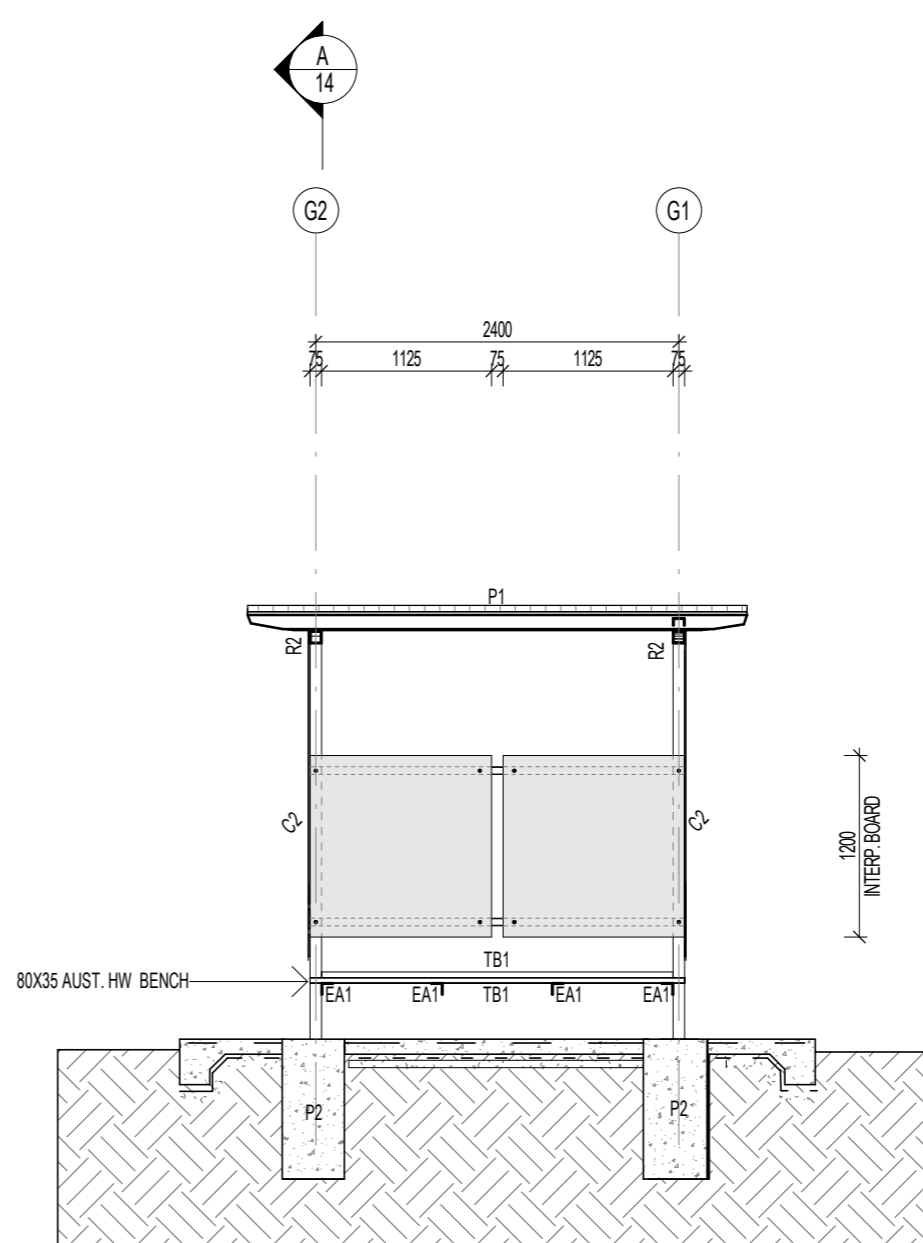
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



**SECTION A**

1:50



**SECTION B**

1:50



**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**SECTIONS AS LABELLED**

0	17.02.2023	FOR CONSTRUCTION ISSUE	Job No: 2022	Issue: 0
ISSUE	DATE	AMENDMENT	Scale: 1:50 @ A3	
			Issue Date: 17.02.2023	Dwg No: 14
			Drawn: PB	Checked: JB



**WALLBRIDGE GILBERT AZTEC RFP  
CONSULTING ENGINEERS**

Date: 20/02/2023  
 Ref No: WGA220562  
 Structural Engineering  
 Concurred By: [Signature]  
 43460ES

**CONCRETE NOTES**

- CONCRETE SLABS TO BE AS FOLLOWS:
- 100 THICK WITH MINIMUM SL82, 40 TOP COVER
  - CONCRETE GRADE 32MPa
  - 250WIDE X 250DEEP MASS CONCRETE EDGE
  - THICKENING TO FREE EDGES.
  - 0.2mm APPROVED DPM UNDER.
  - MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS
  - FOOTINGS TO BE 25MPa
  - COLUMNS TO BE LOCATED CENTRALLY OVER FOOTINGS TYPICAL

**FOOTING NOTES**

1. PIER FOOTINGS TO BE FOUNDED FULL DEPTH INTO FIRM NATURAL GROUND
2. FOOTING DEPTHS SPECIFIED ARE A MINIMUM ONLY AND MAY NEED TO BE INCREASED TO ACHIEVE THE REQUIRED FOUNDING LEVEL
3. FOOTINGS TO BE LOCATED CENTRALLY UNDER COLUMNS

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

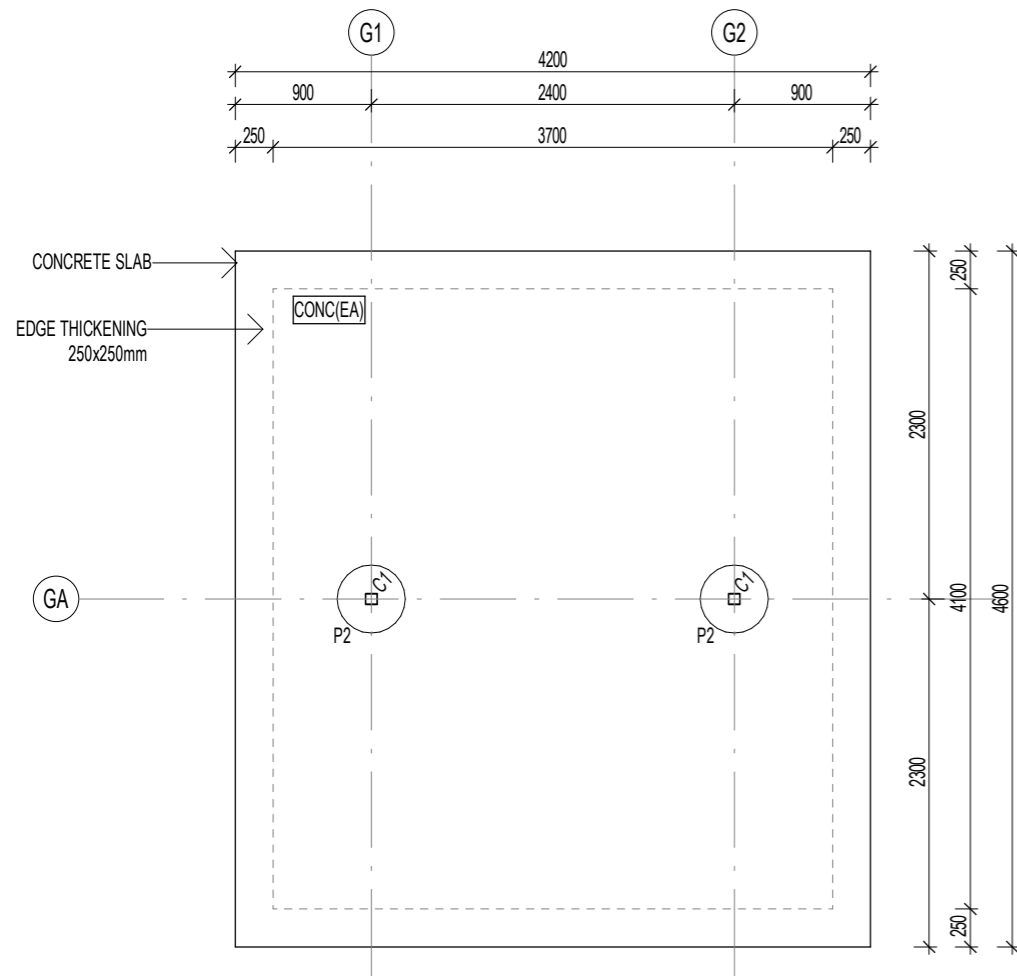
- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

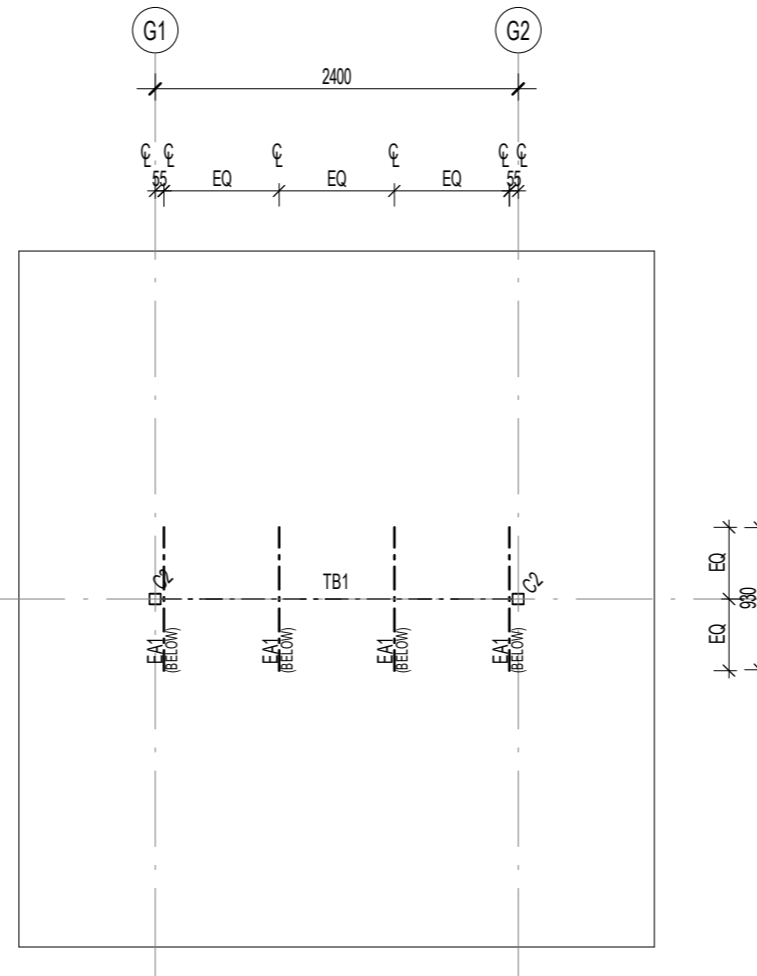
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



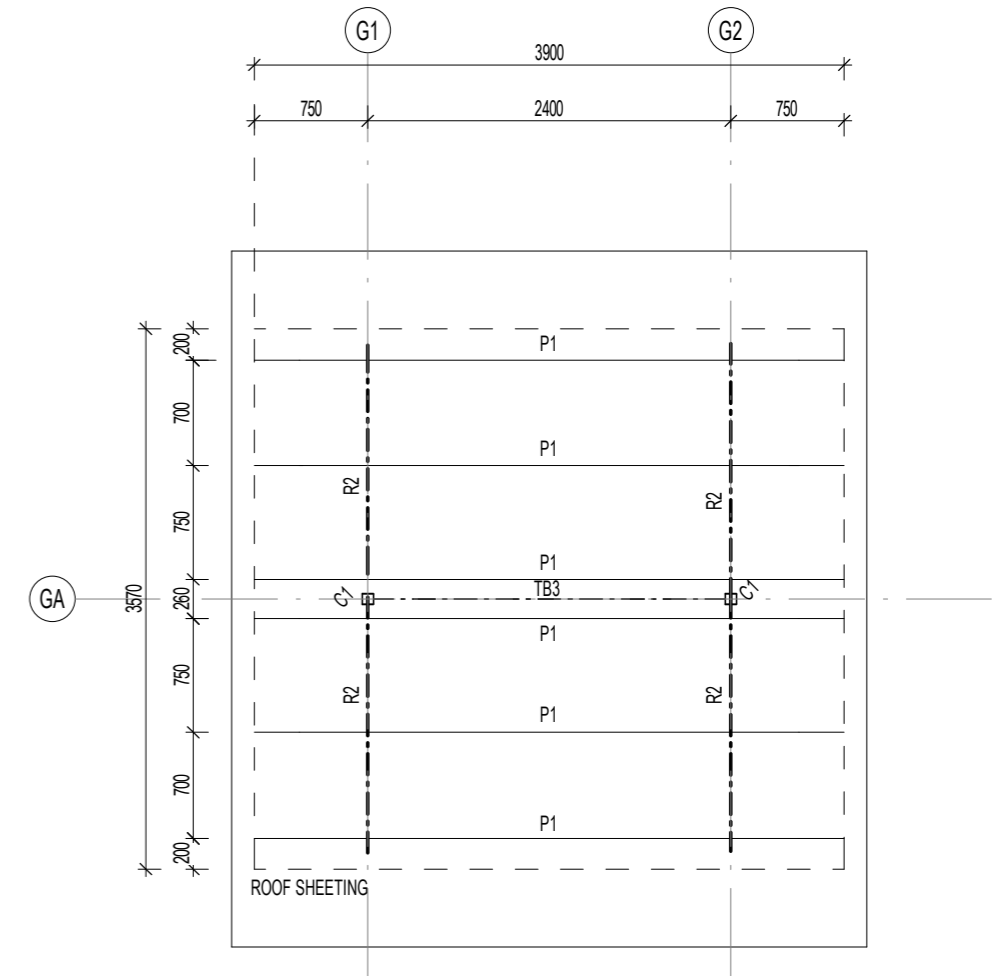
**FOOTING PLAN.**

1 : 50



**FRAMING PLAN.**

1 : 50



**ROOF FRAMING PLAN.**

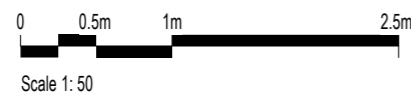
1 : 50

**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**STRUCTURAL PLANS AS LABELLED**

0	17.02.2023	FOR CONSTRUCTION ISSUE	Job No: 2022	Issue: 0
ISSUE	DATE	AMENDMENT	Scale: As indicated @ A3	
			Issue Date: 17.02.2023	Dwg No: 15
			Drawn: PB	Checked: JB

**CONCRETE NOTES**

- CONCRETE SLABS TO BE AS FOLLOWS:
- 100 THICK WITH MINIMUM SL82, 40 TOP COVER
  - CONCRETE GRADE 32MPa
  - 250WIDE X 250DEEP MASS CONCRETE EDGE
  - THICKENING TO FREE EDGES.
  - 0.2mm APPROVED DPM UNDER.
  - MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS
  - FOOTINGS TO BE 25MPa
  - COLUMNS TO BE LOCATED CENTRALLY OVER FOOTINGS TYPICAL

**FOOTING NOTES**

1. PIER FOOTINGS TO BE FOUNDED FULL DEPTH INTO FIRM NATURAL GROUND
2. FOOTING DEPTHS SPECIFIED ARE A MINIMUM ONLY AND MAY NEED TO BE INCREASED TO ACHIEVE THE REQUIRED FOUNDING LEVEL
3. FOOTINGS TO BE LOCATED CENTRALLY UNDER COLUMNS

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING  
P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

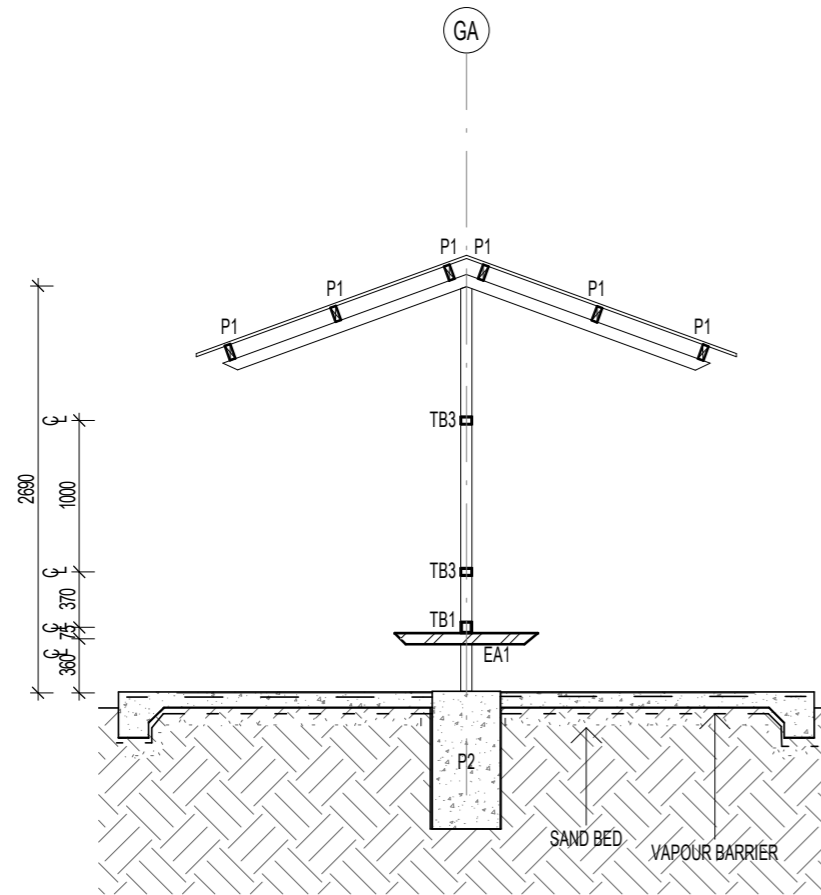
- C1 75x6.0 SHS COLUMN  
C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE  
TB1 75x4.0 SHS  
TB3 75x50x3.0 RHS

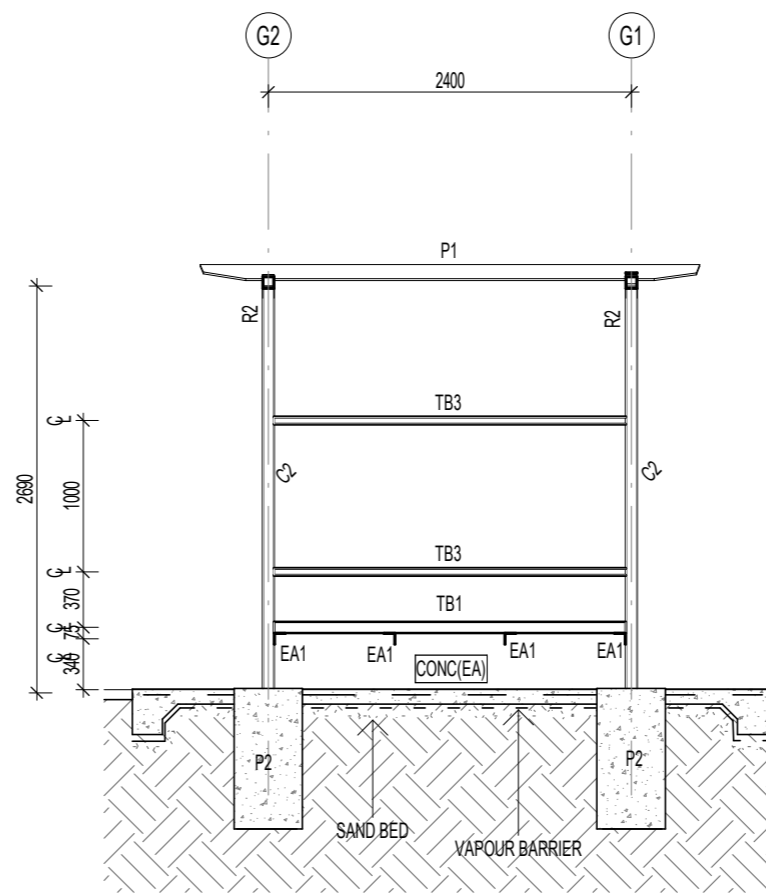
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN  
R1 2No 100x38 HW RAFTER  
R2 75x4.0 SHS RAFTER  
ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



**STRUCTURAL SECTION G1**

1 : 50



**STRUCTURAL SECTION G2**

1 : 50

**FOR CONSTRUCTION ISSUE**

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	16
Issue Date:	17.02.2023	Drawn:	PB
0	17.02.2023	Checked:	JB
ISSUE	DATE	FOR CONSTRUCTION ISSUE	AMENDMENT



**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

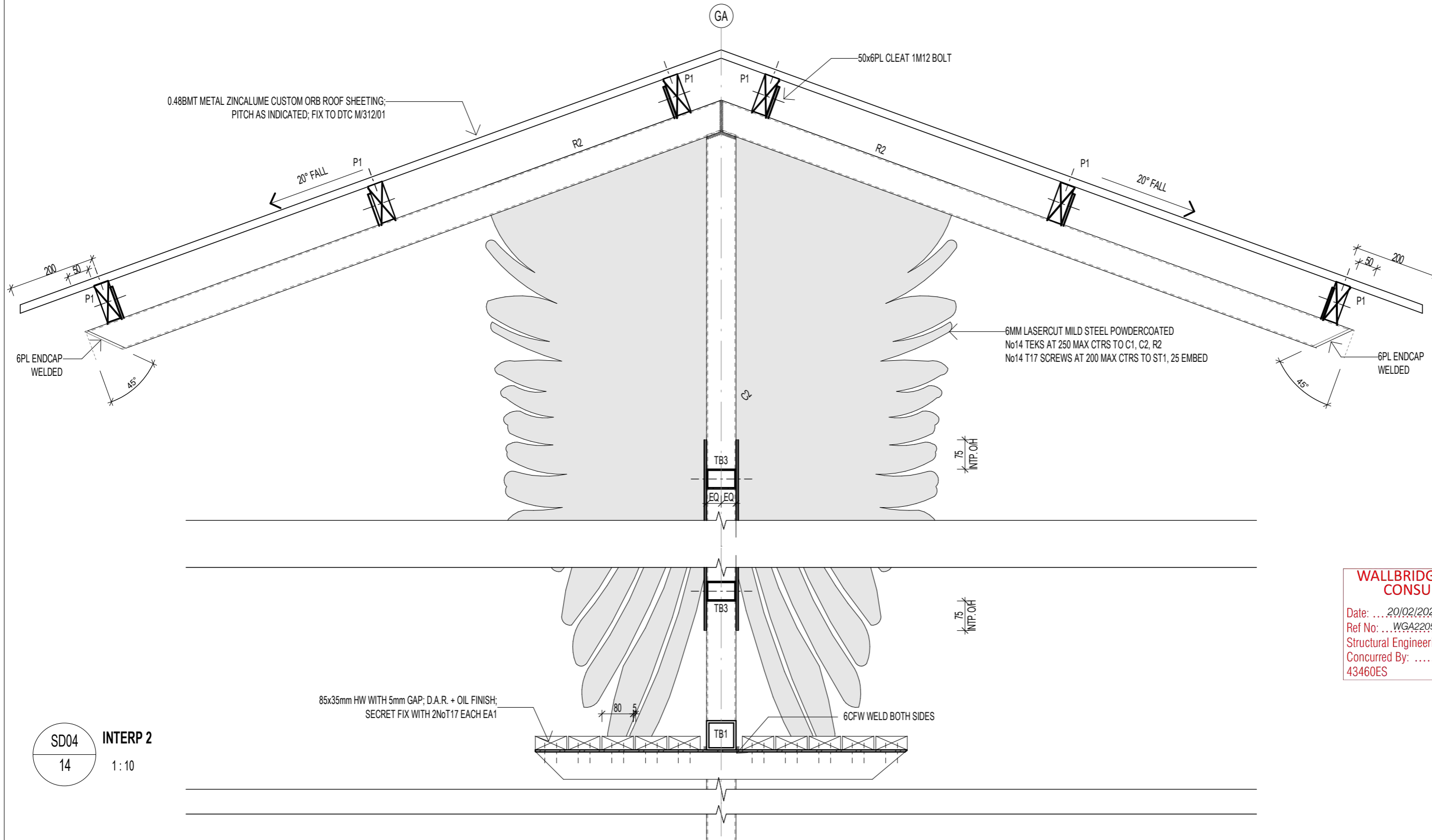
- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



**WALLBRIDGE GILBERT AZTEC RFP CONSULTING ENGINEERS**

Date: ... 20/02/2023

Ref No: ... WGA220562

Structural Engineering

Concurred By: *[Signature]*

43460ES

SD04 INTERP 2  
14 1:10

**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.

0 0.1m 0.2m 0.5m

Scale 1:10

**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL

HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847

WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**STRUCTURAL DETAILS AS LABELLED**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	1:10 @ A3	Dwg No:	17
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB

**STRUCTURAL FOOTING SCHEDULE**

- P1 450DIA 1300MIN. DEEP PEIR FOOTING
- P2 450DIA 900MIN. DEEP PEIR FOOTING

**STRUCTURAL COLUMN SCHEDULE**

- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

**FRAMING MEMBER SCHEDULE**

- EA1 50x3.0 EQUAL ANGLE
- TB1 75x4.0 SHS
- TB3 75x50x3.0 RHS

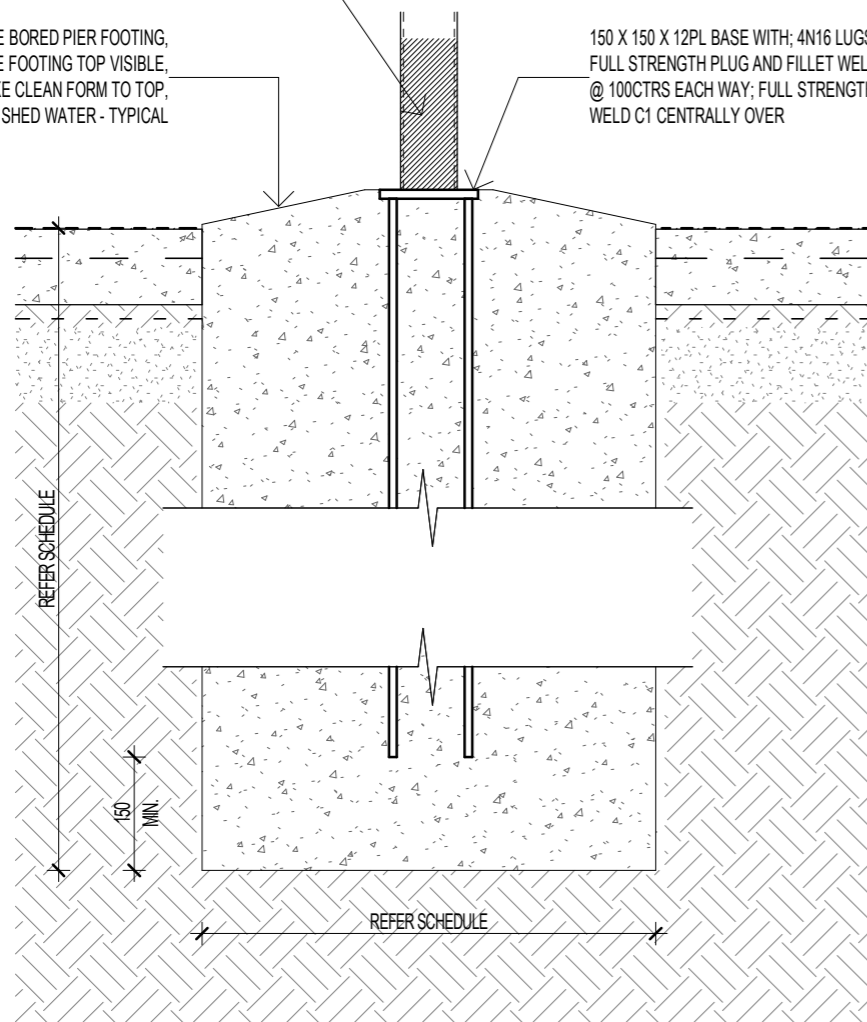
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES

STEELWORK IN CONTACT WITH GROUND TO BE COATED WITH EPIREZ 215 OR APPROVED EQUIVALENT. COATING TO EXTEND 100 ABOVE FSL

CONCRETE BORED PIER FOOTING, WHERE FOOTING TOP VISIBLE, MAKE CLEAN FORM TO TOP. SCOPE TO SHED WATER - TYPICAL

150 X 150 X 12PL BASE WITH; 4N16 LUGS FULL STRENGTH PLUG AND FILLET WELDED @ 100CTRS EACH WAY; FULL STRENGTH WELD C1 CENTRALLY OVER

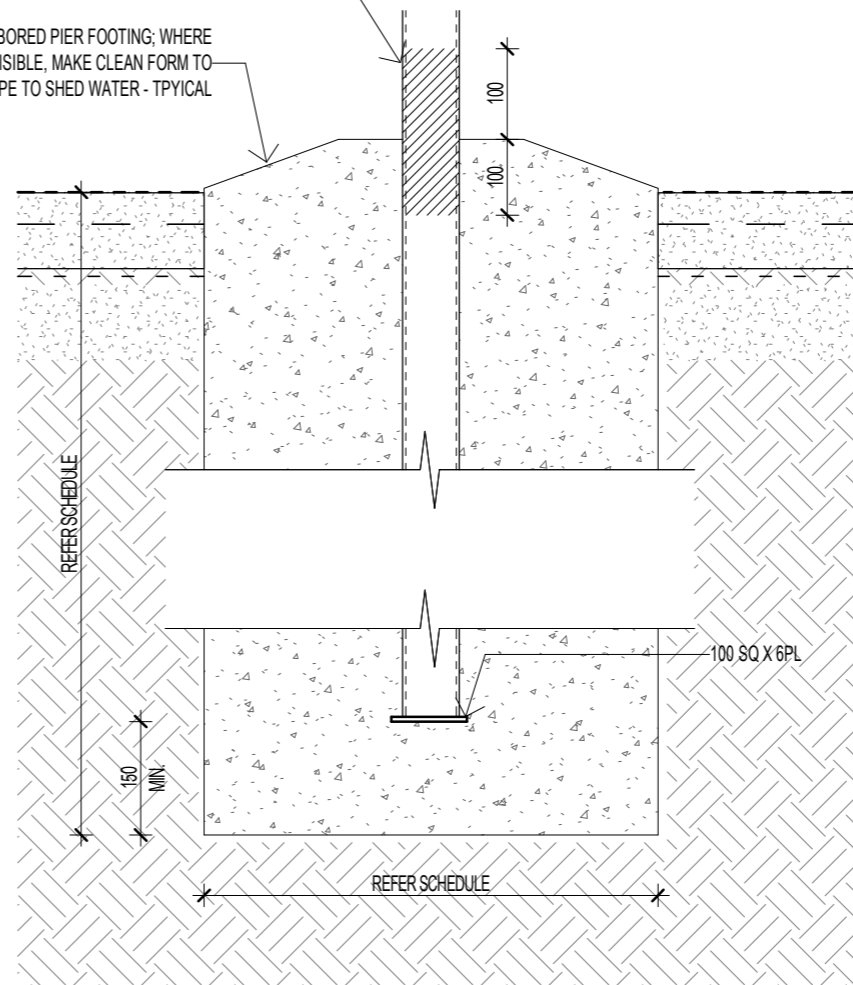


**P1 / P2 TYPICAL DETAIL**

1 : 10

STEELWORK IN CONTACT WITH GROUND TO BE COATED WITH EPIREZ 215 OR APPROVED EQUIVALENT; FROM 100 BELOW TO 100 ABOVE GL

CONCRETE BORED PIER FOOTING, WHERE FOOTING TOP VISIBLE, MAKE CLEAN FORM TO TOP; SCOPE TO SHED WATER - TYPICAL



**P1 / P2 TYPICAL DETAIL - ALTERNATE**

1 : 10

**WALLBRIDGE GILBERT AZTEC RFP CONSULTING ENGINEERS**

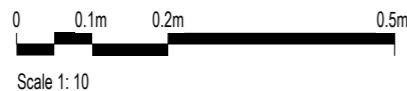
Date: ... 20/02/2023  
 Ref No: ... WGA220562  
 Structural Engineering  
 Concurred By: *[Signature]*  
 43460ES

**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**1 + 2 FOOTING DETAILS**

Job No:	2022	Issue:	0
Scale:	1 : 10 @ A3	Dwg No:	18
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB
0	17.02.2023	FOR CONSTRUCTION ISSUE	
ISSUE	DATE	AMENDMENT	

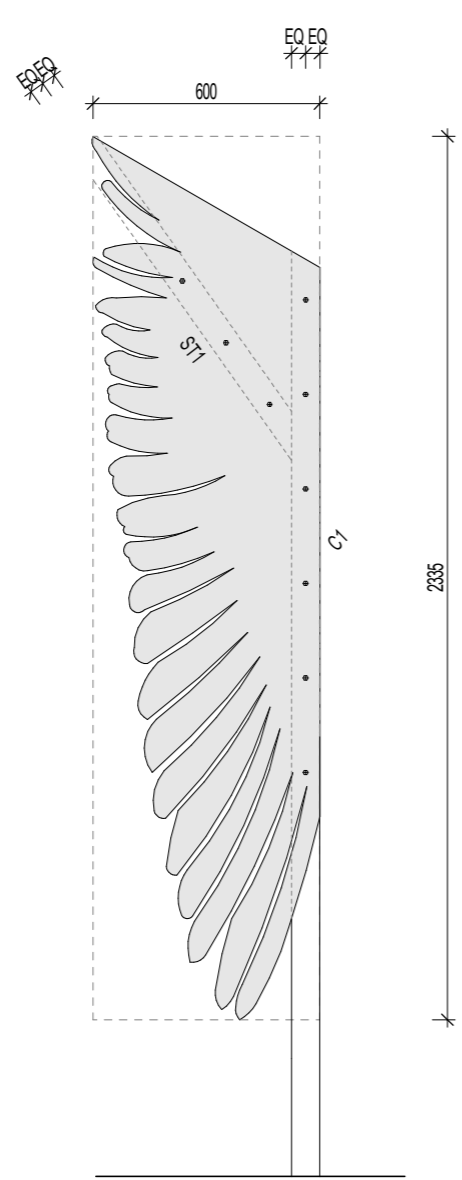


**STRUCTURAL COLUMN SCHEDULE**

- C1 75x6.0 SHS COLUMN
- C2 75x4.0 SHS COLUMN

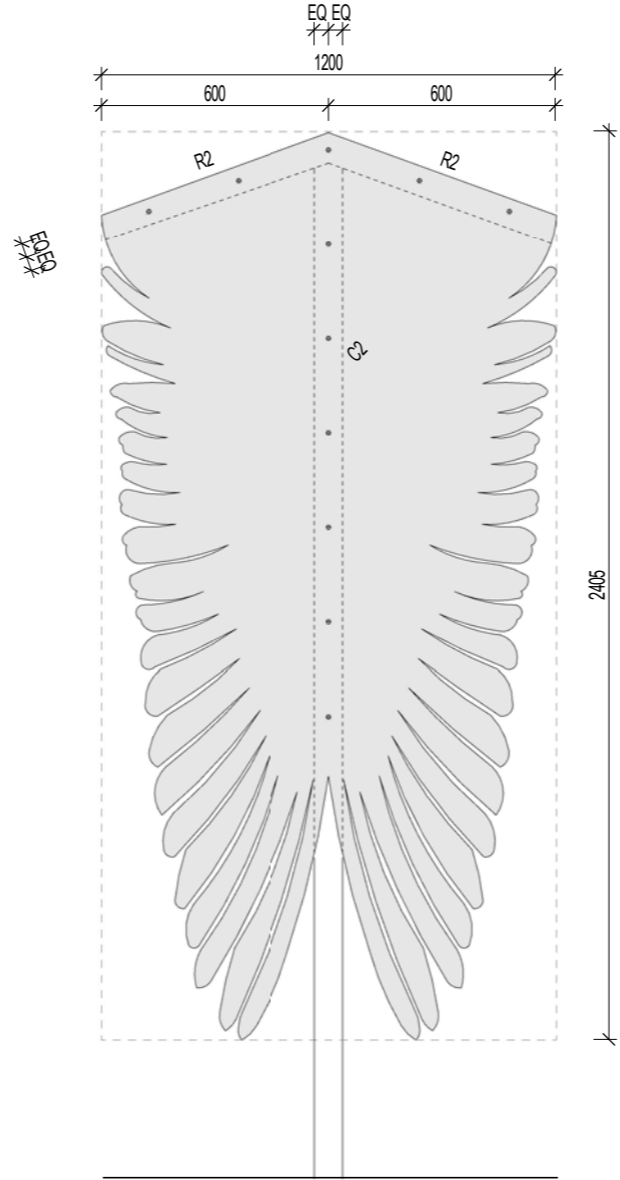
**ROOF FRAMING MEMBER SCHEDULE**

- P1 100x38 HW PURLIN
- R1 2No 100x38 HW RAFTER
- R2 75x4.0 SHS RAFTER
- ST1 75x10PL STRUT WITH 65x32 HW SPOTTED GUM STIFFNER BOTH SIDES



**LASER CUT PANEL INTERP 1**

1:20



**LASER CUT PANEL INTEPR 2**

1:20

**FIXING NOTES**

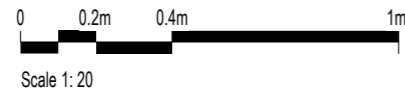
No14 TEKS AT 250 MAX CTRS TO C1, C2, R2  
 No14 T17 SCREWS AT 200 MAX CTRS TO ST1, 25 EMBED

**FOR CONSTRUCTION ISSUE**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
 T. +(61) 8 8981 9585  
 E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.



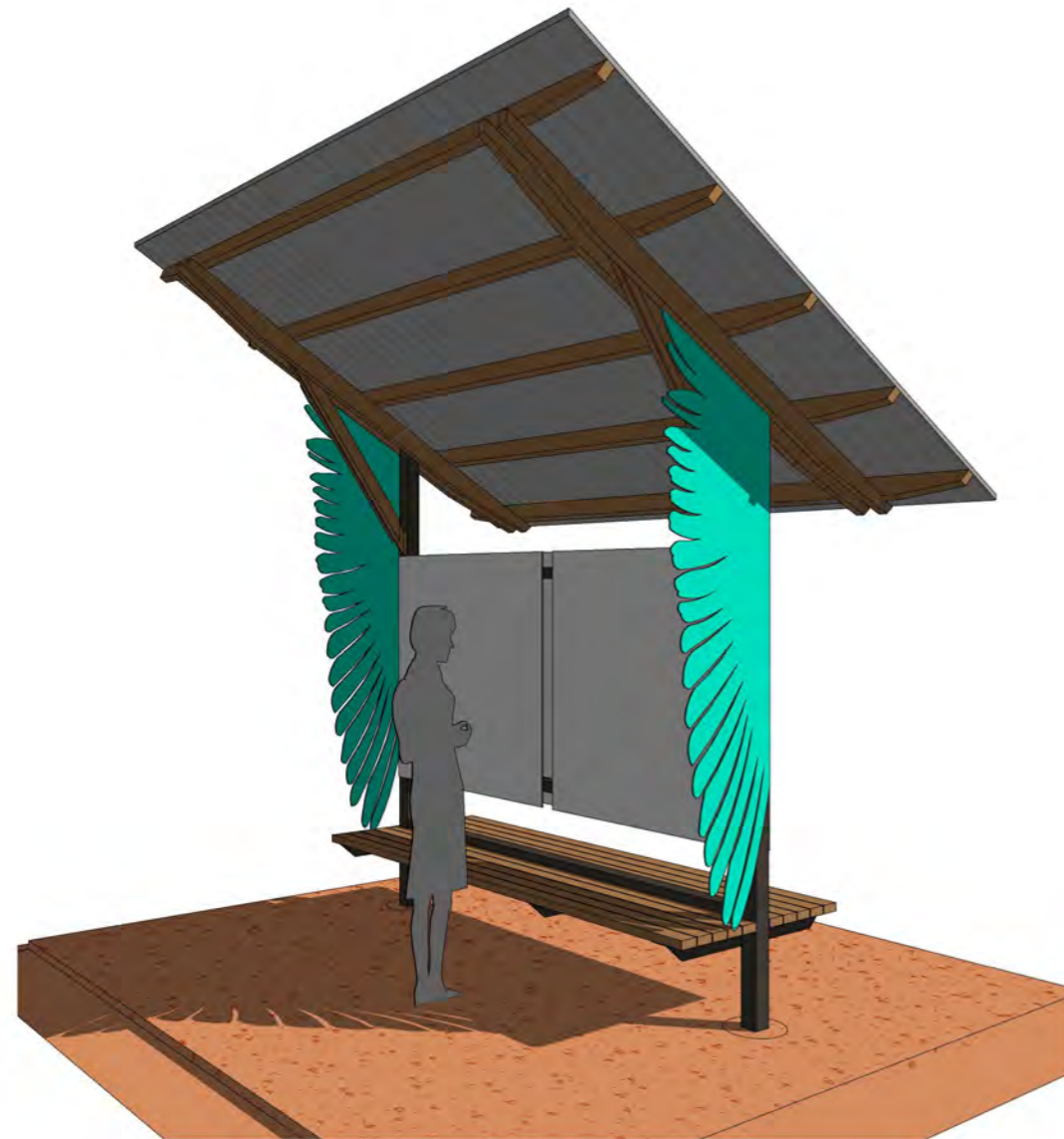
**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
 HERITAGE PARK SITE 1  
 LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
 WATER GARDENS SITE 2  
 LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

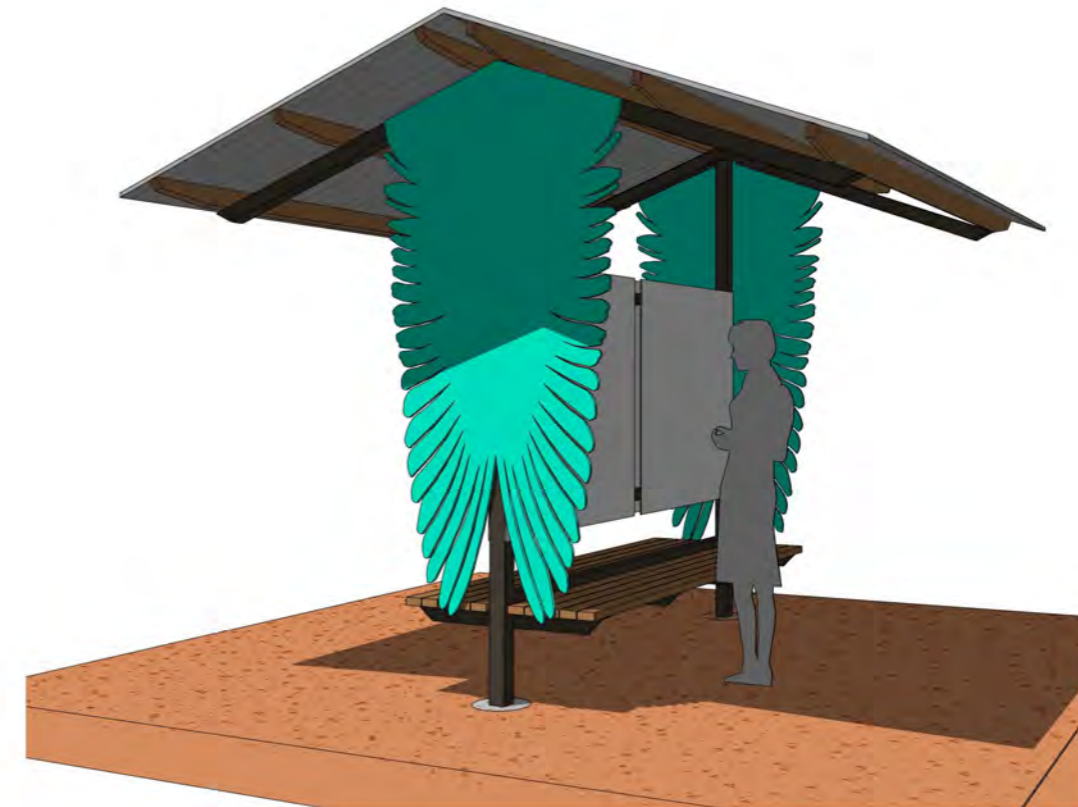
**1+2 - LASER CUT SCREENS**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

Job No:	2022	Issue:	0
Scale:	As indicated @ A3	Dwg No:	19
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



**INTERPRETIVE SHADE STRUCTURE 1**



**INTERPRETIVE SHADE STRUCTURE 2**

**tropo architects** ©

15 Quarry Crescent, Darwin NT 0820  
T. +(61) 8 8981 9585  
E: darwin@tropo.com.au

SETTING OUT OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE SUPERINTENDANT BEFORE PROCEEDING. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.

**PINE CREEK BIRD HIDES**

VICTORIA DALY REGIONAL COUNCIL  
HERITAGE PARK SITE 1  
LOT 230, (94) MAIN TERRACE, PINE CREEK NT 0847  
WATER GARDENS SITE 2  
LOT 296, (11) RAILWAY TERRACE, PINE CREEK NT 0847

**3DS AS LABELLED**

ISSUE	DATE	AMENDMENT
0	17.02.2023	FOR CONSTRUCTION ISSUE

**FOR CONSTRUCTION ISSUE**

Job No:	2022	Issue:	0
Scale:	@ A3	Dwg No:	20
Issue Date:	17.02.2023	Drawn:	PB
		Checked:	JB



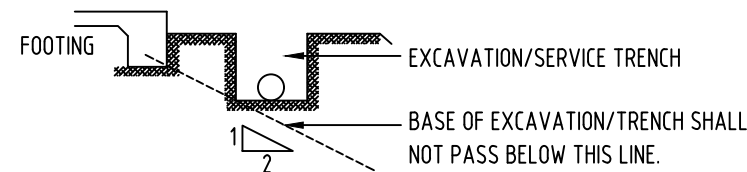
## GENERAL STRUCTURAL NOTES:

### 1. GENERAL:

- 1.1 THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND ALL STRUCTURAL DOCUMENTATION.
- 1.2 STRUCTURAL DRAWINGS MUST NOT BE SCALED. REFER ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LEVELS AND/OR CHECK ON SITE.
- 1.3 IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR THEIR AGENT TO ENSURE THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION UNTIL ITS COMPLETION AND SHALL ENSURE NO UNDUE STRESS IS CAUSED TO THE STRUCTURE.
- 1.4 THESE NOTES/ SPECIFICATION SHALL APPLY UNLESS NOTED OTHERWISE.

### 2. EARTHWORKS:

- 2.1 EARTHWORK CONSTRUCTION SHALL COMPLY WITH GUIDELINES SET OUT IN AS 3798 & AS 2870.
- 2.2 EXCAVATIONS AND SERVICE TRENCHES SHALL COMPLY WITH THE FOLLOWING GUIDELINES UNLESS OTHERWISE APPROVED BY THE ENGINEER.



### 3. CONCRETE:

- 3.1 ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH AS3600 & AS2870.
  - 3.2 MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS;
- | ELEMENT                                  | GRADE |
|--|-------|
| FOOTINGS, SLAB ON GROUND                 | N25   |
| COLUMNS, SUSPENDED SLABS, BEAMS          | N32   |
| EXTERNAL COLUMNS, SUSPENDED SLABS, BEAMS | N40*  |
- \* NOTE:- WHERE EXTERNAL CONCRETE IS EFFECTIVELY PROTECTED BY TILING OR PAINTING, THE CONCRETE GRADE MAY BE REDUCED TO N32.
- 3.3 ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600
  - 3.4 THE MINIMUM LAP LENGTH, WHERE RODS/BARS/MESH HAVE BEEN SPLICED, SHALL BE AS FOLLOWS,
    - N12 - 500mm
    - N16 - 700mm
    - N20 - 900mm
    - MESH - ONE FULL MESH PANEL PLUS 25mm

3.5 PROVIDE DP MEMBRANE (0.2mm THICK APPROVED POLYETHYLENE MEMBRANE) TO UNDERSIDE OF FLOOR SLABS IN ACCORDANCE WITH BCA F1.10

3.6 COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:

- INTERNAL SLAB ON GROUND/FILL - 20mm TOP, 30mm BOTTOM AND SIDES
- EXTERNAL SLAB ON GROUND/FILL - 40mm TOP, BOTTOM AND SIDES
- FOOTINGS PROTECTED BY MEMBRANE - 20mm TOP, 30mm BOTTOM AND SIDES
- FOOTINGS UNPROTECTED BY MEMBRANE - 50mm
- SUSPENDED SLABS, BEAMS AND COLUMNS, STAIRS AND WALLS: 20mm INTERNAL  
40mm EXTERNAL

3.7 WHERE HOOKS/COGS TO BARS ARE SHOWN/DENOTED, THEY SHALL BE STANDARD HOOKS/COGS IN ACCORDANCE WITH AS 3600.

### 4. STEELWORK:

- 4.1 ALL STEELWORK TO COMPLY WITH AS4100 AND AS4600.
- 4.2 ALL COLD FORMED SECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, INCLUDING MATERIAL, FABRICATION, BRIDGING, LAPPING, BOLT LOCATIONS, ETC.
- 4.3 PROVIDE ALL ADDITIONAL TRIMMERS NECESSARY TO SUPPORT EDGE OF ROOF SHEETING, FLASHING & GUTTERS.
- 4.4 PROTECTIVE COATINGS TO COMPLY WITH AS/NZS 2312 U.N.O. FOR DOMESTIC BUILDINGS CLAUSE 3.4.4.4 OF BCA (VOLUME 2) MAY BE USED.
- 4.5 ENSURE ALL DISSIMILAR METALS ARE SEPARATED BY ELECTROLYTIC ISOLATION. USE RUBBER GROMMETS & WASHERS OR OTHER ACCEPTABLE MEANS OF SEPARATION.

- 4.6 FILLET WELDS (UNO) TO BE 6mm FOR FULL PERIMETER OF CONTACT. WHERE PLATE THICKNESS IS LESS THAN 6mm, PROVIDE WELD SIZE TO MATCH.
- 4.7 HOLES FOR HOLD DOWN BOLTS TO BE 3mm OVERSIZE, FOR OTHERS PROVIDE NO MORE THAN 2mm.
- 4.8 BASE PLATES, HOLD DOWN BOLTS AND COLUMNS IN CONTACT WITH GROUND SHALL HAVE CONCRETE COVER OF 75mm MIN.
- 4.9 MINIMUM STEEL GRADES:
  - C350 FOR RHS, SHS & CHS
  - 250 FOR PLATES
  - 300 FOR HOT ROLLED & WELDED (WC, WB) SECTIONS.
- 4.10 ALL CHEMICAL ANCHORS TO BE `RAMSET CHEMSET 801' UNO. FIX INTO CONCRETE OR CONCRETE FILLED BLOCKWORK IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. 110 EMBEDMENT FOR M12, 125 EMBEDMENT FOR M16, 140 EMBEDMENT FOR M20 UNO. ALTERNATIVE EQUIVALENT ADHESIVE ANCHORS MAY BE USED SUBJECT TO APPROVAL.
- 4.11 WELDING OF CHEMSET ANCHOR STUDS/BARS/THEADED RODS AND CONNECTED PLATES IS NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

### 5. MASONRY:

- 5.1 ALL MASONRY CONSTRUCTION TO COMPLY WITH AS3700.
- 5.2 MINIMUM CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH TO BE AS FOLLOWS;
  - CLAY BRICKS 40MPa
  - CONCRETE BRICKS 10MPa
  - CONCRETE HOLLOW BLOCKS 15MPa
- 5.3 MORTAR: BRICKWORK 1: 0.25: 3 (CEMENT:LIME:SAND)  
BLOCKWORK 1: 0.5: 4.5
- 5.4 INFILL CONCRETE GROUT TO REINFORCED MASONRY TO BE GRADE 20, SLUMP 230 +/- 30, 5mm AGGREGATE.
- 5.5 REINFORCED CORES ARE TO BE THOROUGHLY CLEANED PRIOR TO POURING. PROVIDE TEMPORARY CLEANOUT HOLES AT BASE OF EACH MASONRY LIFT.
- 5.6 USE PURPOSE MADE LIGATURES TO BLOCKWORK BOND BEAMS & LINTELS TO MAINTAIN BAR POSITIONS.
- 5.7 SEAL & FINISH BLOCKWORK WITH WATERPROOF PAINT OR COATING.
- 5.8 ELECTRICAL OR OTHER SERVICE CONDUITS ARE NOT TO BE PROVIDED IN REINFORCED CORES UNLESS APPROVED OTHERWISE.
- 5.9 CHASES ARE NOT TO BE PROVIDED IN REINFORCED BLOCKWORK UNLESS APPROVED OTHERWISE.
- 5.10 ALL EXTERNAL BLOCKWORK, WET AREA BLOCKWORK & BLOCKWORK BELOW GROUND LEVEL SHALL BE CONSTRUCTED USING A PURPOSE-MADE PROPRIETARY MORTAR DAMP-PROOF ADMIXTURE FOR THE FIRST 3 BASE COURSES ABOVE FINISHED FLOOR LEVEL.


### 6. TIMBER:


- 6.1 ALL TIMBER CONSTRUCTION TO COMPLY WITH AS 1720, MIN STRESS GRADE F17 HW.
- 6.2 JOINT GROUP TO BE J2 OR BETTER.

### 7. TERMITE PROTECTION:

- 7.1 PROVIDE TERMITE PROTECTION IN ACCORDANCE WITH BUILDING APPROVAL.

**WALLBRIDGE GILBERT AZTEC RFP  
CONSULTING ENGINEERS**

Date: 20/02/2023  
Ref No: WGA220562  
Structural Engineering  
Concurred By:   
43460ES

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
 Suite 7/9, Keith Lane, Fannie Bay Northern Territory 0820 Telephone 08 8941 1678 Email rfp@rfpeng.com					
<b>GENERAL STRUCTURAL NOTES</b>					
A3		DRAWING NUMBER			
Design		Drawn		Sheet No. Rev.	