

**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	
Owner (if known):	
Lot/Portion Number:	Address:
Location: Humpty Doo	Town / Hundred : Strangways
Description of works :	
Proposed Shed	

DOCUMENTS ATTACHED
Drawing Nos: ISKY Dwg No.'s A101:A109
Other:

DESIGN BASIS (please list relevant Standards used in the design)			
AS1170, AS4100, AS3600, AS3700, AS4600, AS AS2870, AS1554, AS1312, AS3850			
Class of Building (BCA): 10a	Type of Construction (BCA volume 1 §C1.1): (eg. Type A fire-resisting construction) n/a		
Building Importance Level (BCA Table B1.2a): II	Annual Probability of Exceedance for Wind (BCA Table 1.2b): 1 in 500		
Region: C	Regional ultimate wind speed V_R (m/s): 69	Terrain Category: 2.5	Reference height (m): 5.2
$M_{z,cat}$: 0.89	M_s : 1.0	M_t : 1.0	V_{des0} Design Wind Speed at reference height (m/s): 61
Internal Pressure Coefficients ($C_{p,i}$):	To AS 1170.2 Section 5.3 & Table 5.1		
External Pressure Coefficients ($C_{p,e}$)	Walls	To AS 1170.2 Section 5.4 & Appendix C	
	Roof	To AS 1170.2 Section 5.4 & Appendix C	
Net Pressure Coefficients: ($C_{p,n}$)	Roof / Walls	To AS 1170.2 Appendix D	
Imposed Loads, kPa	Floor / Roof	To AS 1170.1	
Earthquake Design Category, EDC (Table 2.1 of AS 1170.4): n/a			
Annual Probability of Exceedance for Earthquake Actions (BCA Table 1.2b): 1 in n/a			
Importance Level (BCA): n/a		Hazard Factor, Z (Section 3): n/a	
Safe Foundation Bearing Capacity, kPa: 100		Class of Sub-Soil (Section 4): n/a	
Site classification (AS2870): S to be confirmed prior to construction			

COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).
The following items are excluded and shall be certified separately:
<ul style="list-style-type: none"> • 2 x Proprietary Roller Doors
Comments:

CERTIFICATION BY STRUCTURAL ENGINEER			
Company Name if certification issued on behalf of a corporation		Company NT Registration Number	
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) Michael Cooper	Nominee/Individual NT Registration Number 21133ES	Signature	Date 3 vOctober, 2017

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.
- 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, flashings, barges & vents.
- 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.

LOT 5752 SPENCELY ROAD, HUMPTY DOO NEW SHED STRUCTURE

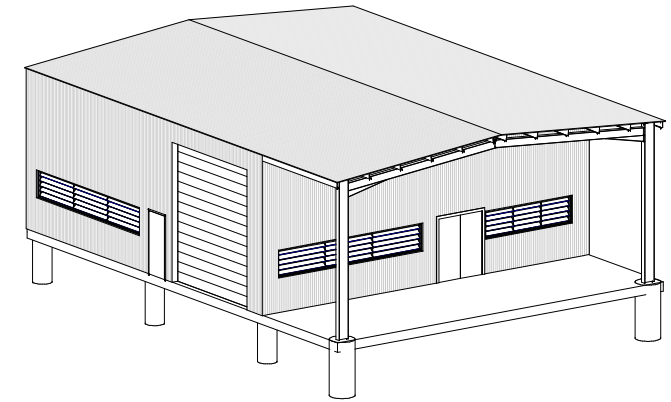
DRAWING SCHEDULE

- A101 TITLE SHEET
- A102 SLAB PLAN + FLOOR PLAN
- A103 ELEVATIONS
- A104 ROOF FRAMING PLAN
- A105 SECTION A + CALLOUT 1, 2, 3
- A106 GRID C - ELEVATION
- A107 GRID 1 - ELEVATION
- A108 GRID 3 - ELEVATION
- A109 STRUCTURAL NOTES

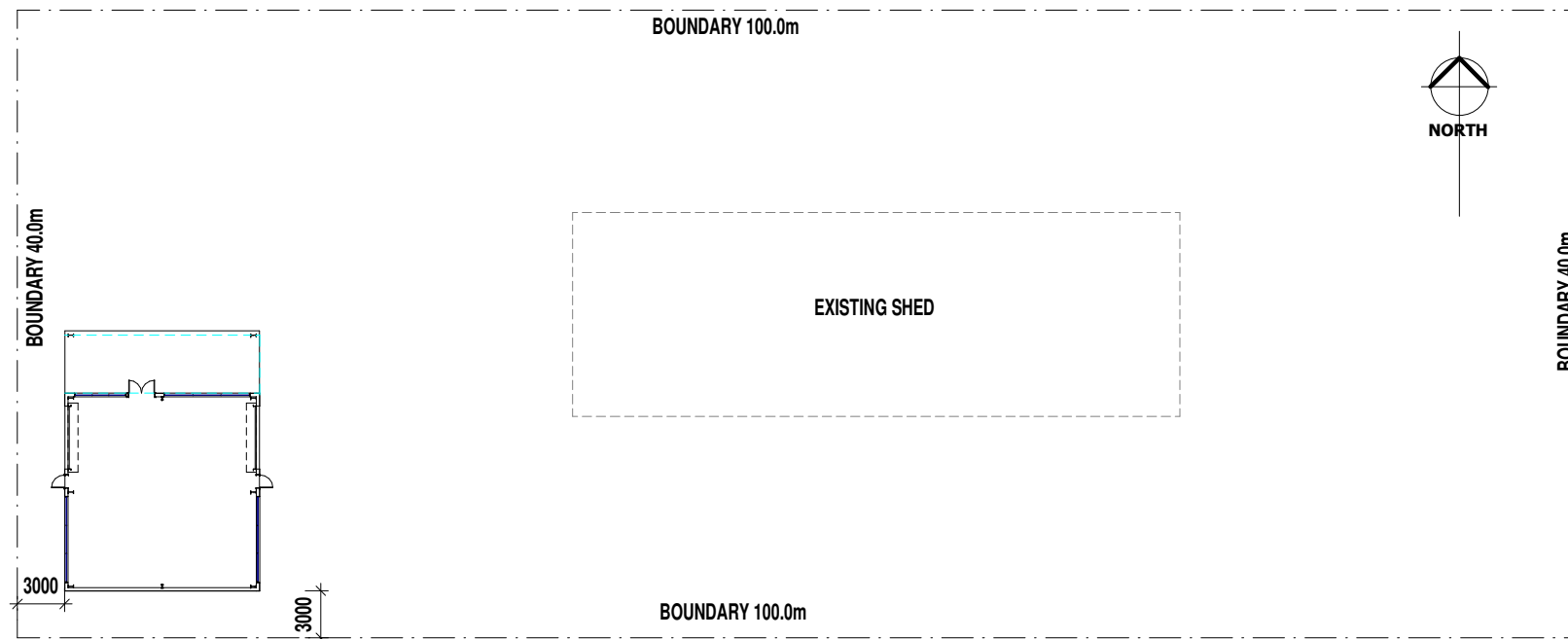
STRUCTURALLY CONCURRED

Michael Cooper

Reg No 21133ES



3D MODEL




Site
1 : 200

SPENCELY ROAD

NOTE: NEW AND EXISTING CONDITIONS;

- ALL DIMENSIONS AND MEASUREMENTS SHOWN ARE NOMINAL ONLY.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS AND LEVELS ON SITE AND ADJUST ACCORDINGLY TO SUIT THE INTENDED DESIGN.
- DO NOT SCALE FROM DRAWINGS.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS AND THE BUILDING CODE OF AUSTRALIA.
- ALL WORK SHALL COMPLY WITH THE NT BUILDING ACT AND REGULATIONS.
- ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH AS3500 AND LOCAL AUTHORITY REGULATIONS.
- DRAINAGE SYSTEM SHALL COMPLY WITH NT DEPT OF HEALTH CODE OF PRACTICE.
- ALL ELECTRICAL SHALL COMPLY WITH AS3000 AND LOCAL AUTHORITY REGULATIONS.
- ANY WORK ASSOCIATED WITH ASBESTOS SHALL COMPLY WITH THE NT WORKSAFE CODE OF PRACTICE.

No.	DESCRIPTION	INIT.	DATE	DEPT/COMPANY	 N.T. Consulting Engineers ABN 73 102 631 186 P.O. Box 900 COOLALINGA 0839 Northern Territory, Australia www.ntconsultingengineers.com.au STRUCTURALLY CONCURRED	DRAWN	CHECKED	REGION LOCATION PROJECT NAME DRAWING HUMPTY DOO TITLE SHEET	FILE No. 5752/17	ASSET No.	SHEET No. A101 OF	DRAWING No.	AMEND.	SHEET SIZE A1
AMENDMENTS				DESIGNED		CHECKED	DESIGN PROJECT LEADER							
					Mobile: 0427 411 633 Email: ntce@westnet.com.au 21133ES	DATE	DATE	DATE	DATE					

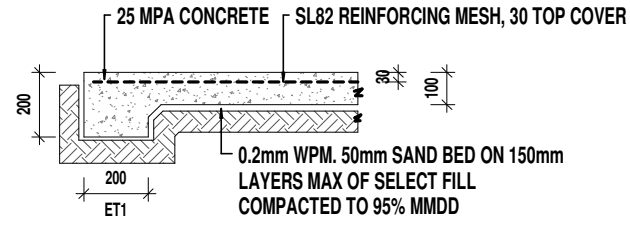
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WINDOW SCHEDULE			
Type Mark	Description	Height	Width
ZV	"Z" PURLIN VENT WINDOW	900	5500
ZV	"Z" PURLIN VENT WINDOW	900	5500
ZV	"Z" PURLIN VENT WINDOW	900	5500
ZV	"Z" PURLIN VENT WINDOW	900	3300

Grand total: 4

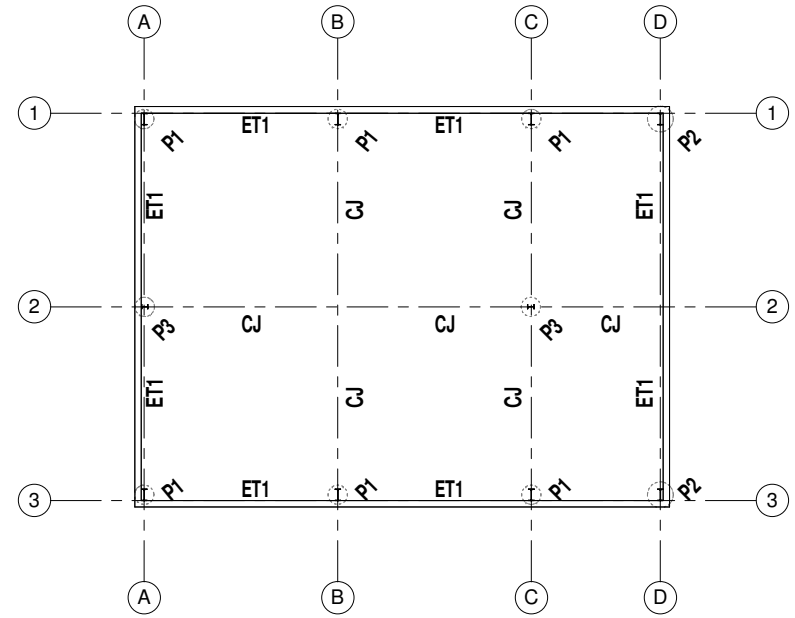
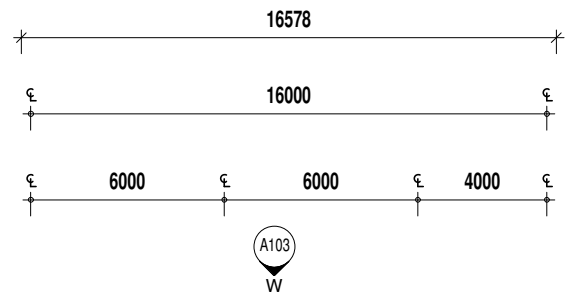
DOOR SCHEDULE			
Type Mark	Description	Height	Width
DPA	DOUBLE SOLID CORE DOORS	2071	1695
RD	ROLLER DOOR	4500	4000
PA	SOLID CORE DOOR	2040	820
RD	ROLLER DOOR	4500	4000
PA	SOLID CORE DOOR	2040	820

Grand total: 5

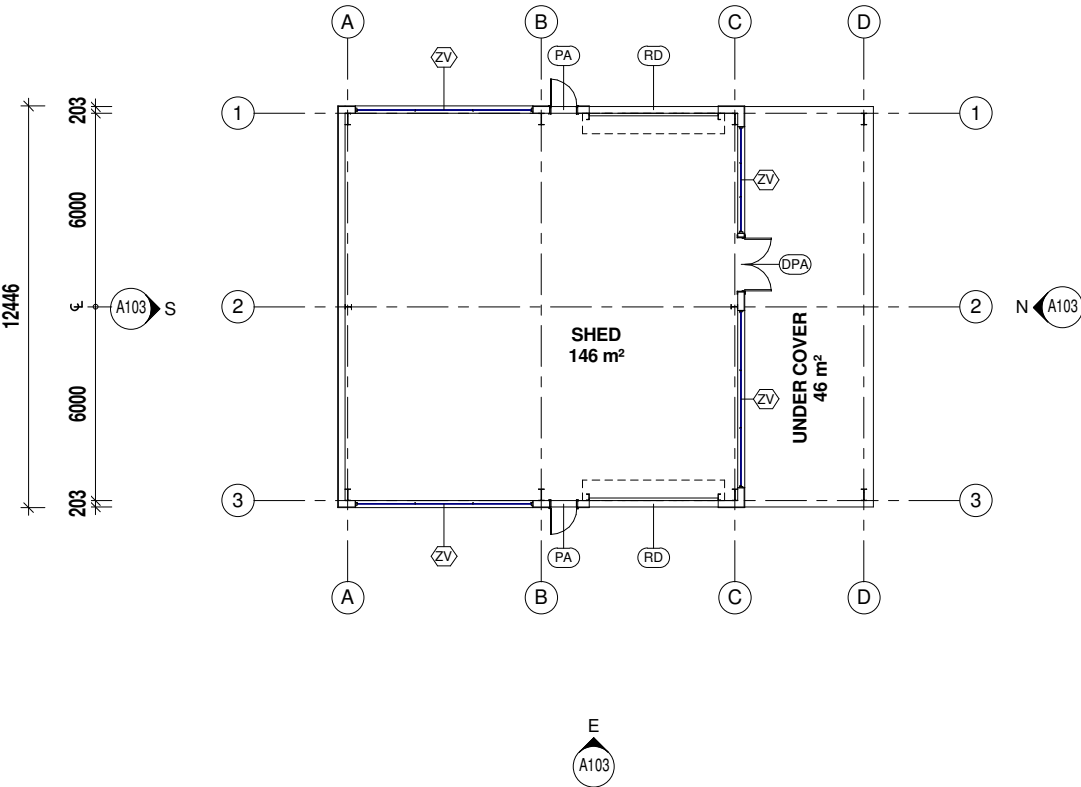


3 CONCRETE SLAB DETAIL
 A102 1:10

SLAB MEMBER SCHEDULE	
P1	BORED PIER FOOTING 1500 DEEP x Ø600
P2	BORED PIER FOOTING 800 DEEP x Ø600
P3	BORED PIER FOOTING 1200 DEEP x Ø600
ET1	EDGE THICKENING BEAM 200 x 200
CJ	CONTROL JOINT

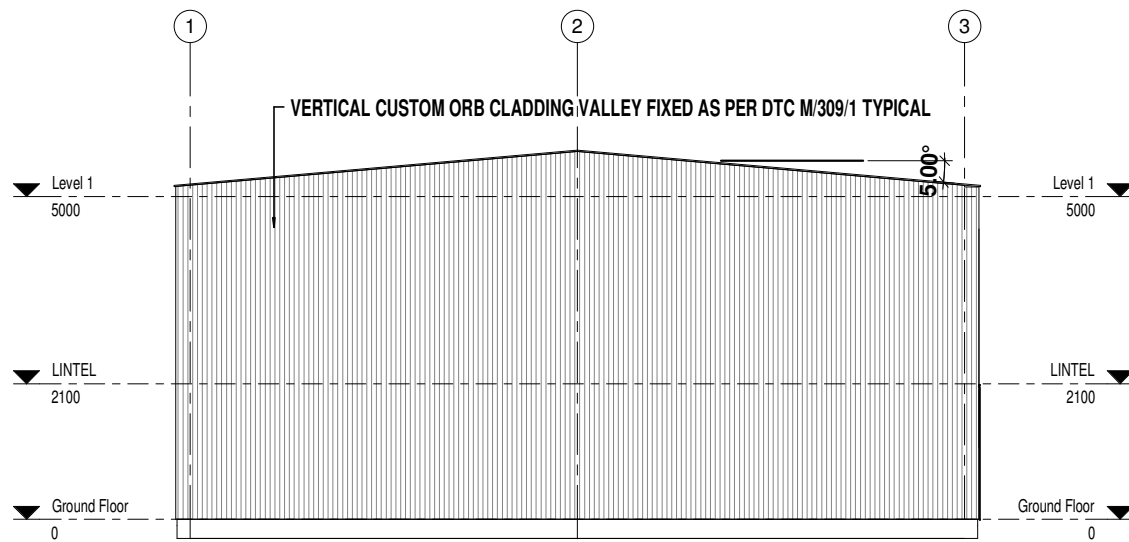


Slab Plan
 1:100

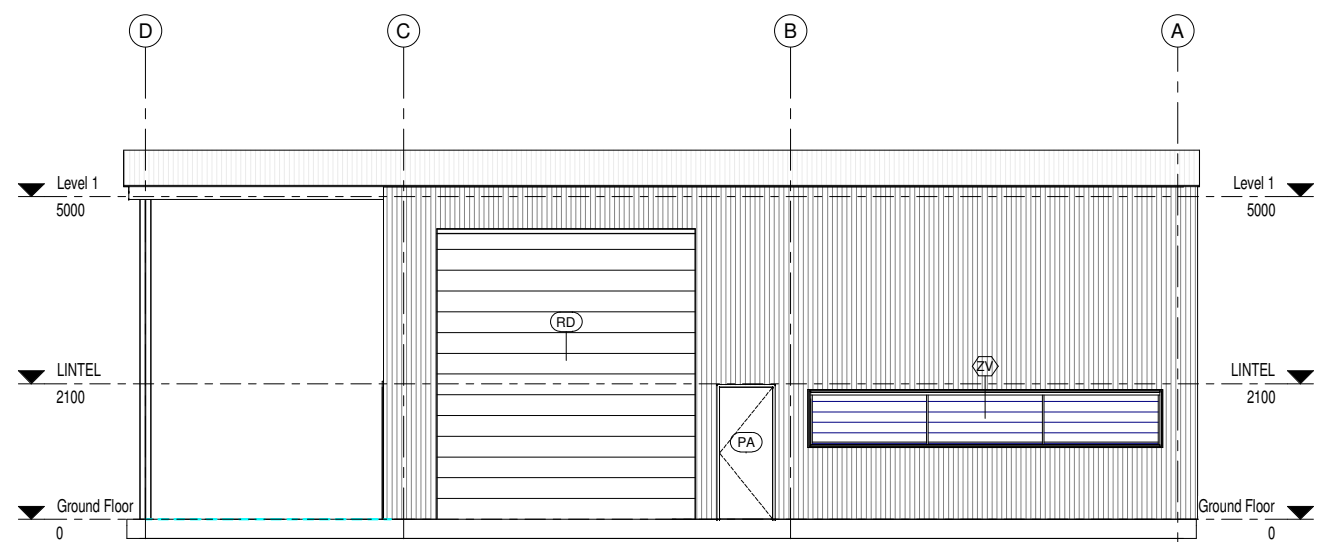


Ground Floor
 1:100

				N.T. Consulting Engineers ABN 73 102 631 186 P.O. Box 900 COOLALINGA 0839 Northern Territory, Australia www.ntconsultingengineers.com.au STRUCTURALLY CONCURRED		DRAWN / CHECKED DATE / DATE DESIGNED / CHECKED DATE / DATE DESIGN PROJECT LEADER / Dsl PROJECT MANAGER DATE / DATE		REGION LOCATION HUMPTY DOO PROJECT NAME SLAB PLAN + FLOOR PLAN DRAWING			
AMENDMENTS No. DESCRIPTION INIT. DATE DEPT/COMPANY				Mobile: 0427 411 633 Email: ntce@westnet.com.au 21133ES		FILE No. 5752/17 ASSET No. SHEET No. A102 OF DRAWING No. AMEND. SHEET SIZE A1					

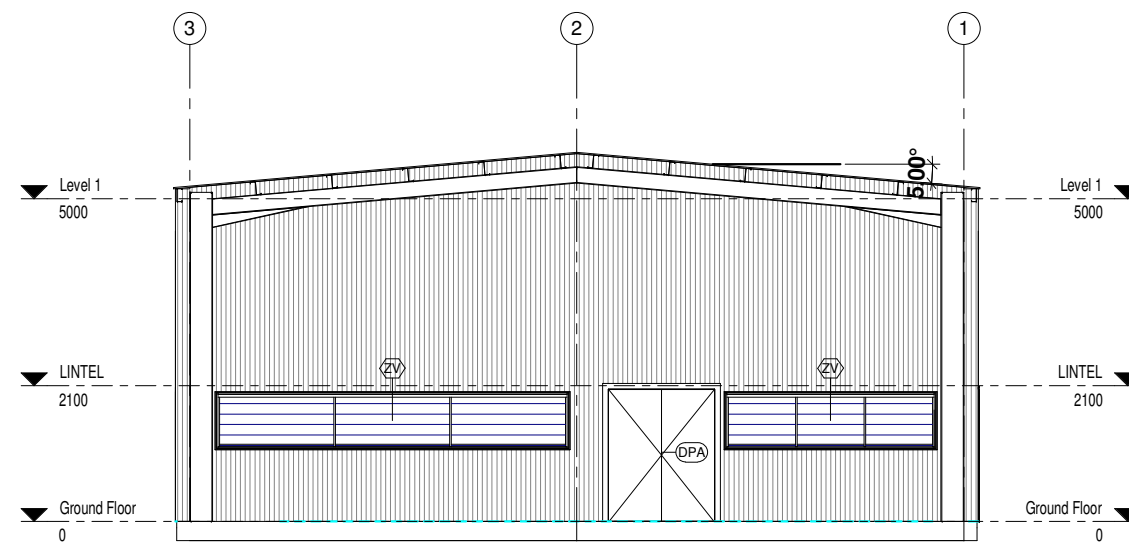


South Elevation
1 : 50

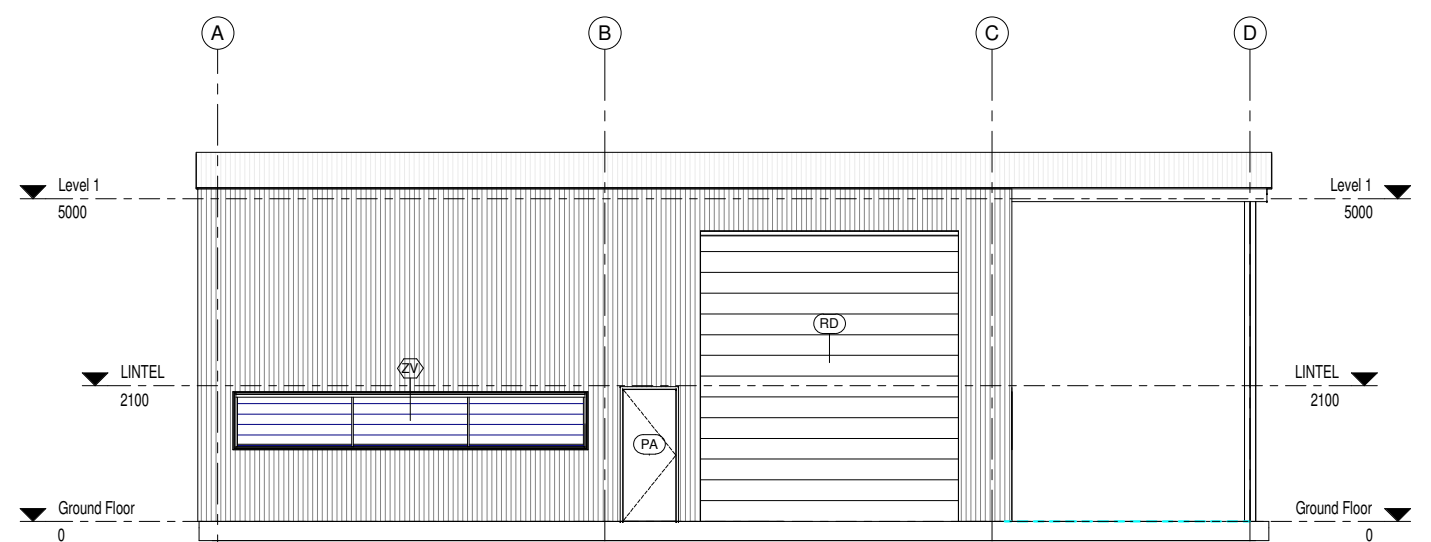


West Elevation
1 : 50

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North Elevation
1 : 50



East Elevation
1 : 50

No.	DESCRIPTION	INIT.	DATE	DEPT./COMPANY
AMENDMENTS				



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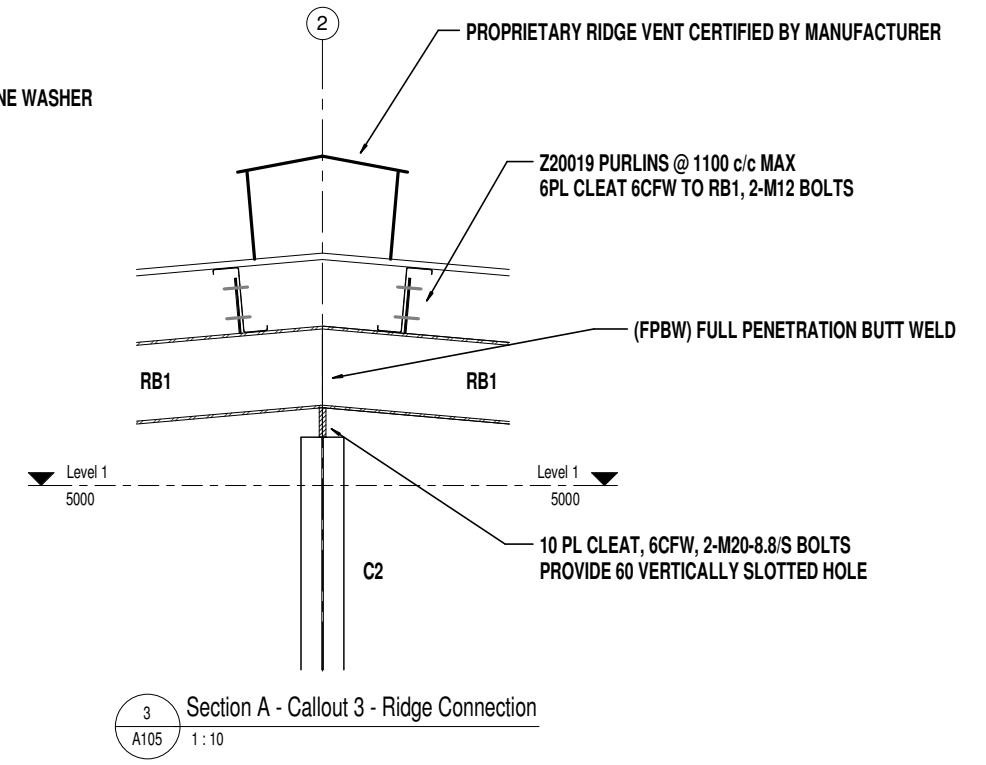
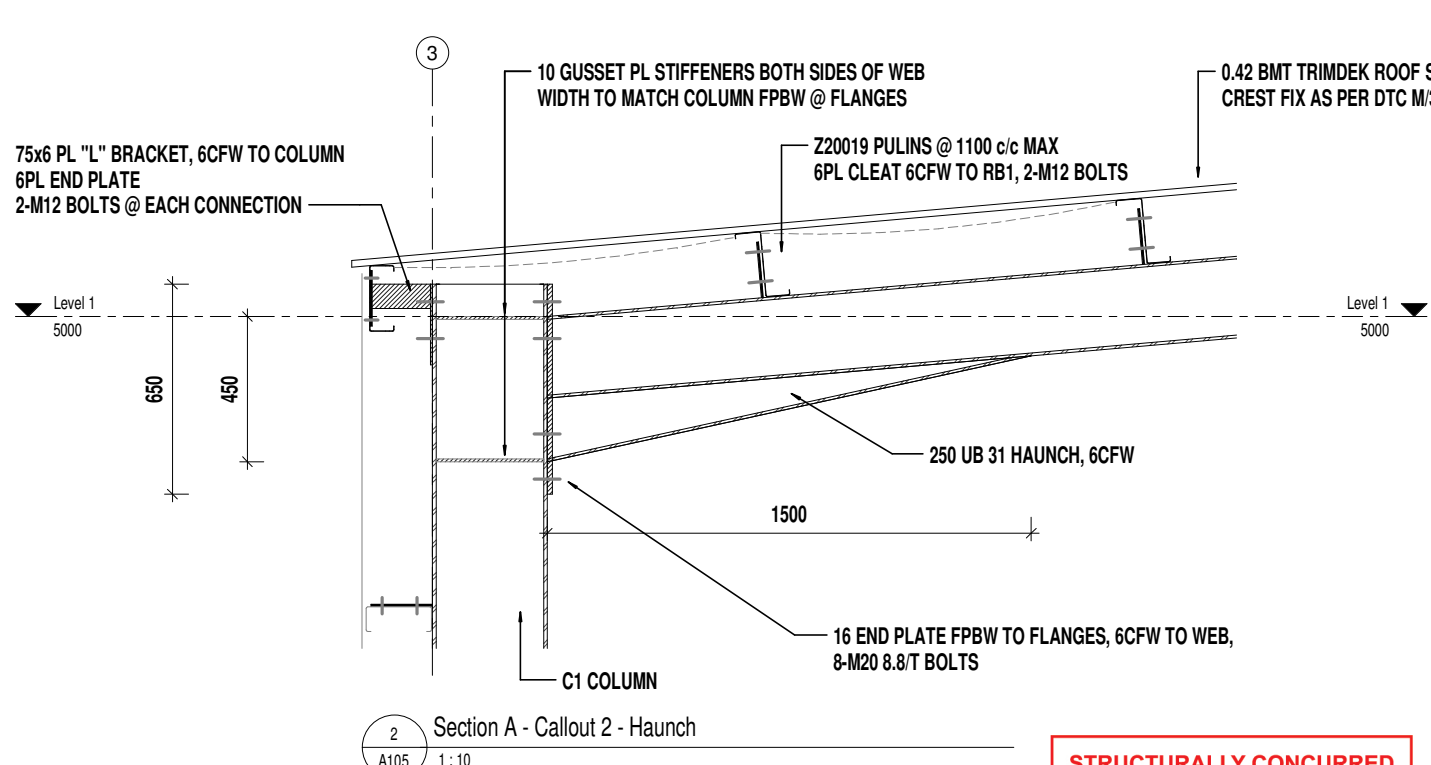
21133ES

DRAWN	CHECKED
DATE	DATE
DESIGNED	CHECKED
DATE	DATE
DESIGN PROJECT LEADER	Dsl PROJECT MANAGER
DATE	DATE

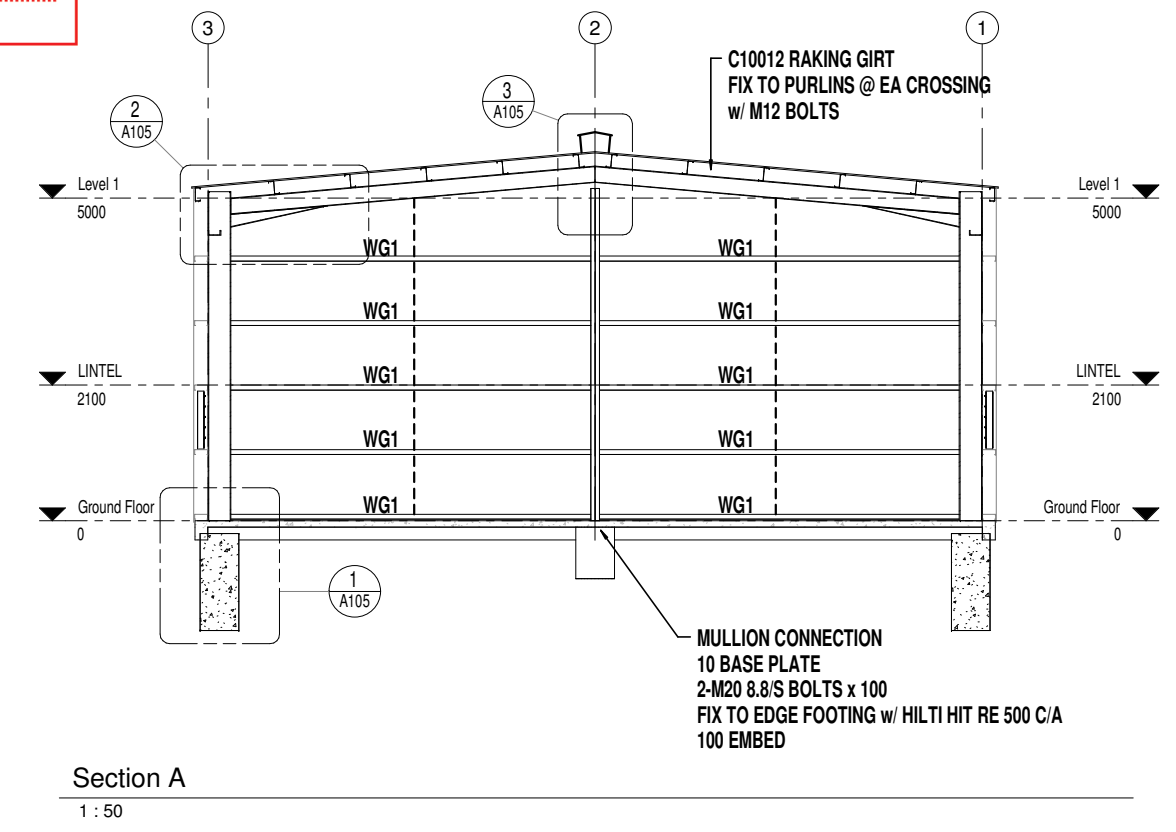
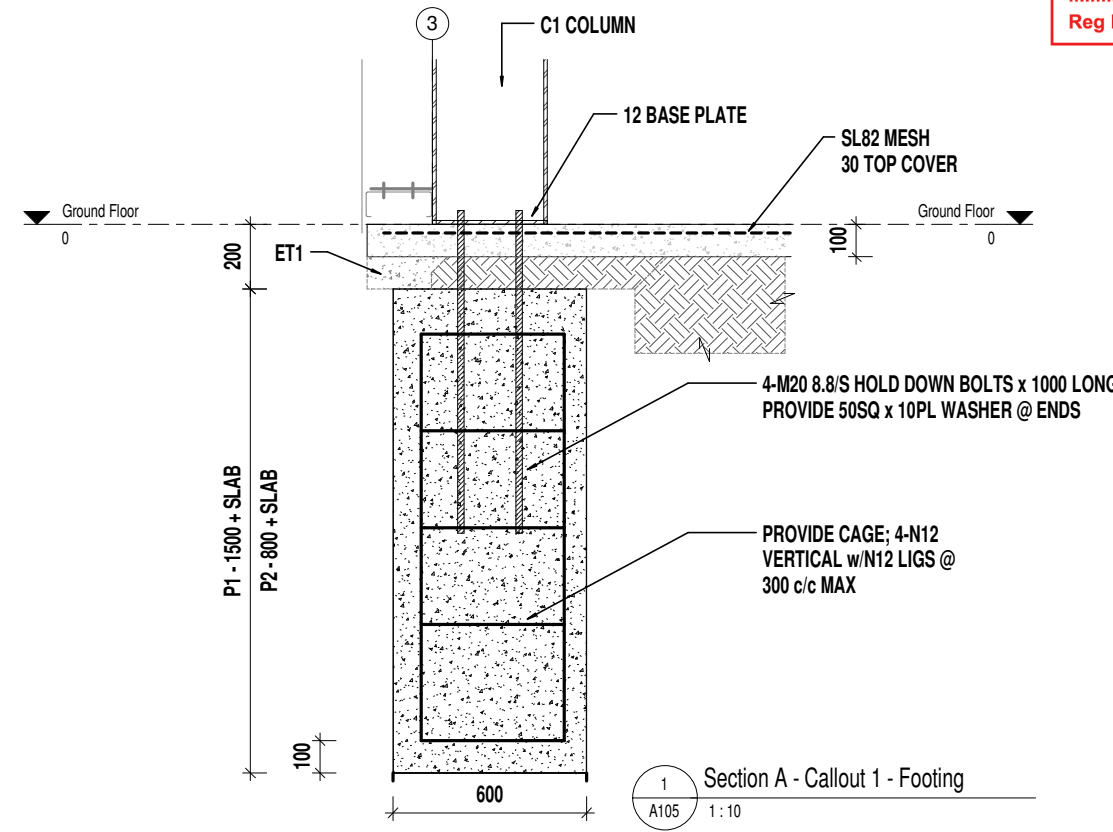
REGION LOCATION
 PROJECT NAME
 DRAWING

FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.	SHEET SIZE
5752/17		A103 OF			A1

HUMPTY DOO
 SHED PLANS
 ELEVATIONS



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No.	DESCRIPTION	INIT.	DATE	DEPT/COMPANY
AMENDMENTS				

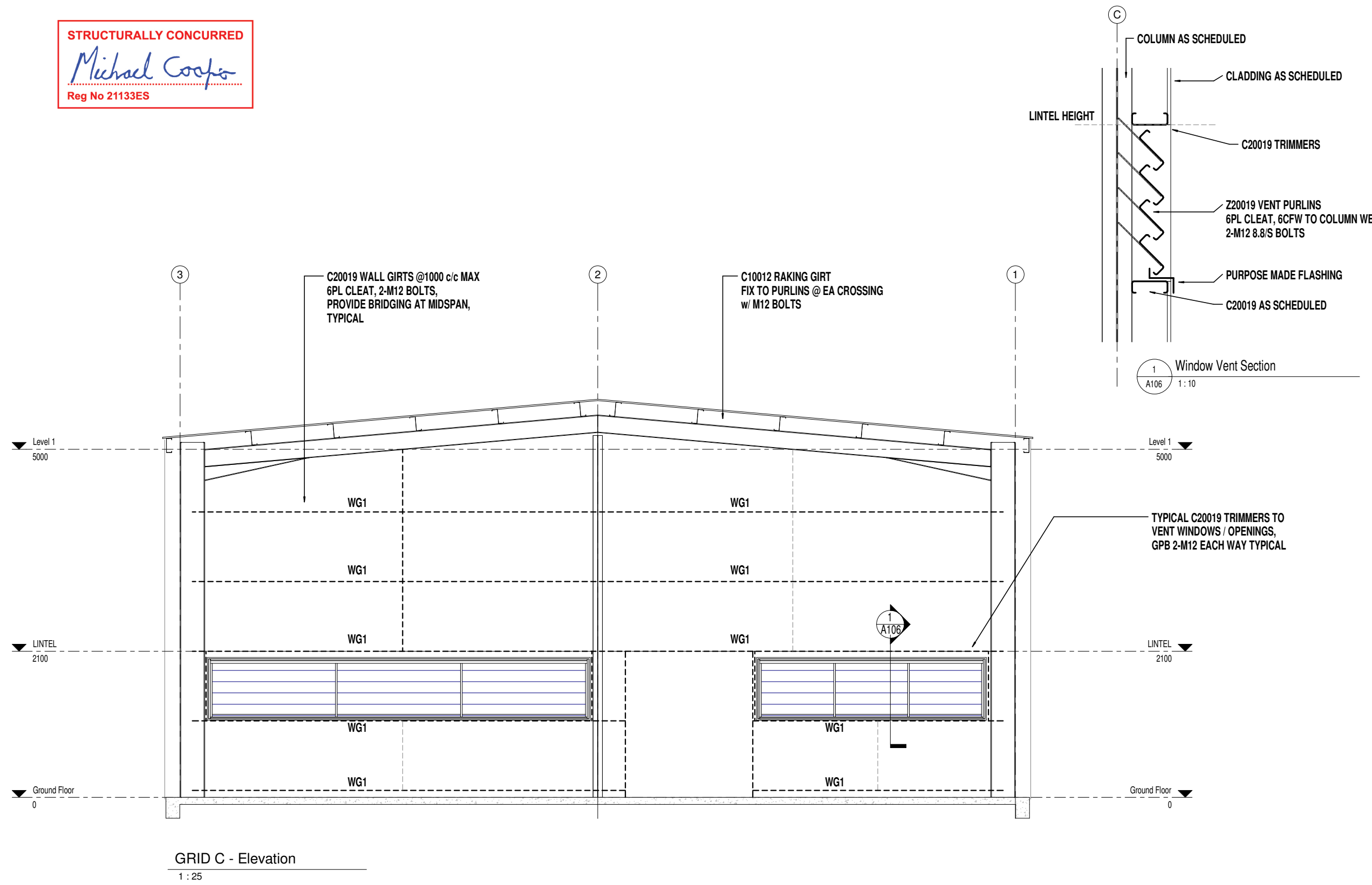
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DRAWN	CHECKED
DATE	DATE
DESIGNED	CHECKED
DATE	DATE
DESIGN PROJECT LEADER	Dsl PROJECT MANAGER
DATE	DATE

ISKO Building & Design
isko777@gmail.com
PO Box 791 Katherine NT 0851
0404 087 083

REGION	HUMPTY DOO			
LOCATION				
PROJECT NAME	SECTION A + CALLOUT 1, 2, 3			
DRAWING				
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
5752/17		A105 OF		
				SHEET SIZE
				A1

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DATE	DATE
DESIGN PROJECT LEADER	Dsl PROJECT MANAGER
DATE	DATE

REGION		HUMPTY DOO		
LOCATION		HUMPTY DOO		
PROJECT NAME		GRID C -		
DRAWING		ELEVATION		
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
5752/17		A106 OF		
				SHEET SIZE
				A1