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): XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Lot/Portion Number: XXXXXXXXXXXXXXXXXXXXXXXXXXXX	Address: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Location: All Areas of the Northern Territory	Town / Hundred : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Description of works : Level Master Stair Stringers.	

DOCUMENTS ATTACHED	
Drawing Nos:	Drawing 20-10897-S01
Other:	

DESIGN BASIS (please list relevant Standards used in the design)

- AS/NZS 1170.0:2002 Structural Design Actions- General principles
- AS/NZS 1170.1:2002 Structural Design Actions- Permanent, imposed and other actions
- AS/NZS 1170.2:2021 Structural Design Actions- Wind actions.
- AS 4100:2020 Steel Structures

Class of Building (BCA): 1a or 10a		Type of Construction (BCA volume 1 §C1.1): Domestic (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: Various	Regional ultimate wind speed V_R(m/s): Various	Terrain Category: Various	Reference height (m): N/A
$M_{z,cat}$: Various	M_s : Various M_t : Various	$V_{des\theta}$ Design Wind Speed at reference height (m/s): Various	

Internal Pressure Coefficients ($C_{p,i}$):		**Various**
External Pressure Coefficients ($C_{p,e}$)	Walls	**Various**
	Roof	**Various**
Net Pressure Coefficients: ($C_{p,n}$)	Roof / Walls	**Various**
Imposed Loads, kPa	Floor / Roof	**Floor Live Load 2.5kPa**

Earthquake Design Category, EDC (Table 2.1 of AS 1170.4): Domestic Refer Appendix A AS1170.4
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: 100kPa   Site classification (AS2870): A Assumed

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

CERTIFICATION BY STRUCTURAL ENGINEER

Company Name **if certification issued on behalf of a corporation**	**Company NT Registration Number**
Summermore Pty Ltd	127239ES

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**		**Date**
Ronald A Bell	**60596ES**	**Signature**	**Tuesday, 23 August 2022**

* 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.

[ ] **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).

[X] **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.

[X] **11.** Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges & vents.

[X] **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.

GENERAL

1. THESE DRAWINGS SHALL BE READ IN CONJUCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFFERED TO THE SUPERVISING OFFICER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. NO RESPONSIBILITY WILL BE TAKEN BY THE CONSULTING ENGINEER FOR DIMENSIONS OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.
   ALL DIMENSIONS IN THESE DRAWINGS ARE APPROXIMATE AND ARE FOR THE SOLE PURPOSE OF ASSISTING THE STRUCTURAL DOCUMENTATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND NEIGHBOURING STRUCTURES IN A SAFE AND STABLE CONDITION DURING CONSTRUCTION. NO PART SHALL BE OVERSTRESSED.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT S.A.A. CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT GOVERNMENT AUTHORITY.
6. HANDRAILS AND FIXINGS SHALL BE DESIGNED AND INSTALLED TO RESIST LOADS TO AS1170 WITH STRUCTURAL ENGINEERING CERTIFICATION SUPPLIED BY THE MANUFACTURER.
7. PROPRIETARY ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.

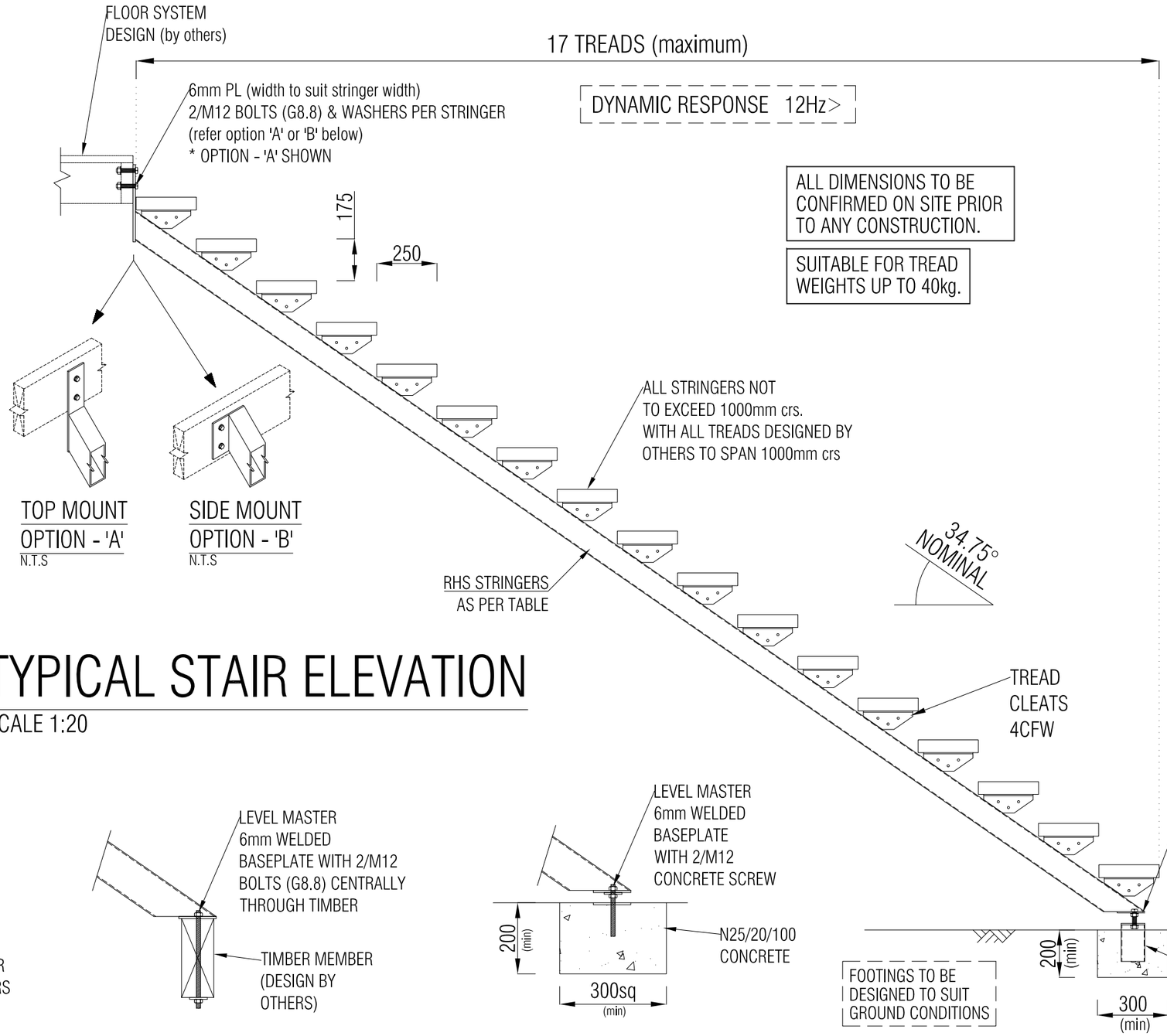
STRUCTURAL STEELWORK NOTES

S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100.

S2. ALL MEMBERS TO BE HOT DIPPED GALVANISED OR DURAGAL WITH ALL WELDS TO BE COLD GAL TREATED.

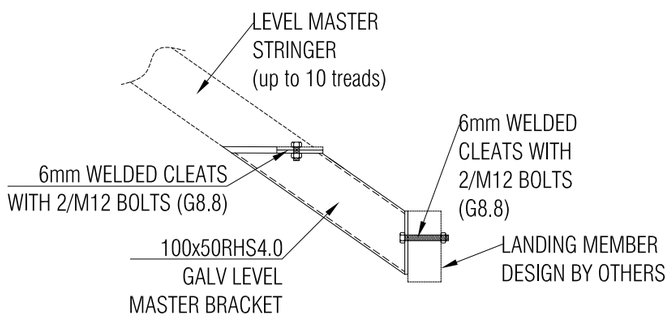
RHS STRINGERS PER TREAD AMOUNT	
STRINGER MATERIAL	No. OF TREADS PER STRINGER SET
100x50RHS3.0	1 - 10 TREADS
125x75RHS3.0	11 - 14 TREADS
125x75RHS5.0	15 - 17 TREADS

* ALL STRINGERS PLACED AT 1000mm crs (max).



TYPICAL STAIR ELEVATION

SCALE 1:20



OPTION 4 - LANDING TO LANDING
NOT TO SCALE

OPTION 3 - BASE BOLT DOWN
NOT TO SCALE TIMBER

OPTION 2 - BASE BOLT DOWN
NOT TO SCALE CONCRETE

OPTION 1- CAST IN
NOT TO SCALE

OR OR OR

DRAWING REVISIONS				REFERENCE DRAWINGS	
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022		
I	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021		
H	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021		
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020		
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019		
-	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016		
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE

SIGNED APPROVAL		
APPROVED	23AUG2022	
RPEQ	6715	
REVIEWED		
DESIGNED	RAB	AUG 2022
DRAWN	GAB	AUG 2022
SCALE	AS SHOWN	
ORIGINAL DRAWING SIZE at A3		

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CLIENT

LevelMaster Stronger • Easier • Faster ADJUSTABLE HOUSE STUMPS

PROJECT: GENERIC STAIR STRINGERS

TITLE: General Notes & Stair Elevation with RHS Stringer Members Table

DRAWING NUMBER	REV
16-10897-S01	J