

Mailing Address: PO Box 390, Gayndah Qld 4625 Street Address: 34-36 Capper Street, Gayndah Qld 4625

Telephone: 1300 696 272 Facsimile: (07) 4161 1425

Email: admin@northburnett.qld.gov.au

Web: northburnett.qld.gov.au

ABN: 23 439 388 197

## REQUEST FOR CONCURRENCE AGENCY ASSESSMENT

Contact Council if you have any specific enquiries regarding fees or how to complete this form. Type or print clearly and select boxes where applicable. Enter "n/a" if the question does not apply.

Type of Assessment Required (tick applicable boxes - the more information provided will assist with assessment)	Concurrence Agency Referral prior to Building Application (s57, PA 2016)  Design & Siting (QDC) Building over or near relevant infrastructure. Planning Scheme – Alternate Siting provisions Other  Supporting documentation must be provided i.e site plan, foundation plan, elevations floor plans. Where additional information is required a request will be made to the applicant.						
Select as applicable.	APPLICANT DETAILS:  Private  Applicants Name  Contact Person  Postal address  240	WALGH Properte WHIGH Bruce Huy	Your Ref				
	Locality / Town  Contact phone  Contact fax  APPLICANT'S SIGNATURE	MF 7-7-74	Email Salgedardwifts				
Address	Street	Clenrae Dip 1	Z, ·				
Real property description	Lot no. // Register  Description of property: (eg. Dwelling,	red plan M29, 3	Parish  Uy bhe Sites.				
	PROPERTY DETAILS:  Has the building application been lodg.  Building Certifier:  Postal Address:  Phone:	Engager	gement ment Date:  Email:				
	OFFICE USE ONLY Total	Receipt No	Date / /				

	DESCRIPTION OF PROPOSED BUILDING WORKS:							
Proposal Details								
(tick applicable boxes)								
	Relocated building Other:							
	REASON FOR APPLICATION:							
	Front Boundary Setback Rear Boundary Setback Side Boundary Setback							
	Clearance from sewer Other:							
Proposal Details	INFORMATION TO BE SUBMITTED WITH APPLICATION:							
(tick applicable boxes)	Site Plan (inc. existing buildings on-site, distances to all boundaries for all structures).							
	duilding Plans (e.g. proposed floor plans, existing floor plans, elevations).							
	Additional details of relaxation/justification to further support your request.							
	Details of setbacks of buildings on adjoining properties (for request to relax setback to the street only).							
	etails of height of buildings on adjoining properties (for request to relax setback to the street only).							
	by of building application (including forms) lodged with certifier (only if a building application has already been lodged with a							
	Private Certifier).  Copy of acknowledgement notice issued by the building certifier (only if a building application has already been lodged with a Private Certifier).							
	Additional information as required by the assessing officer							
	Additional information as required by the accessing officer							
Written comments to support the request –	JUSTIFICATION:							
consideration to								
requirements set out in North Burnett Regional	- House is a heartful tome							
Planning Scheme								
	- House is a seartful tome - Will NEED NEW ZING Rest , getters							
	g. Hers							
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Section 2 Only if required by the Assessing Officer Adjoining Land Owner's Consent	Where the application to Council is for a performance decision in relation to siting within the Town Zone — Residential Precinct; Village Zone: Rural Residential Zone as a courtesy, it is requested that the proposal be shown to the owners of adjoining land. This provides them with the opportunity to submit their view of the proposal to Council.  The following forms may be used for this purpose, and attached at the time of lodging the application.  1.  Adjoining / Adjacent / Opposite Property Owner/s Comment regarding the Proposal
	Title: (Mr./Mrs./Ms/Miss) Surname: Given name:
	Your Property Address:
	Postal address:
	Phone: (H):(W):(M):
	Signature/s: Date://
	2.  Adjoining / Adjacent / Opposite Property Owner/s Comment regarding the Proposal
	□I/We agree with the attached proposal for (Address);
	or □I/We object to the proposal.
	Reason for Objection:
ALC: N	
THE PLEASE	
	Title: (Mr./Mrs./Ms/Miss) Surname: Given name:
	Your Property Address:
	Postal address:
	Phone: (H):(M):
	Signature/s: Date://



E: admin@am20design.com.au

M: 0467 554 848

Licensee: Adeleh Mollaei QBCC: 15197524

# PROPOSED DWELLING FOR G HOOPER AT **LOT 111 GLENRAE DIP ROAD GLENRAE**



SHEET	REVISION	DRAWING TITLE
HOO - 001	D	SITE PLAN
HOO - 002	D	EXISTING FLOOR PLAN
HOO - 003	D	PROPOSED FLOOR PLAN
HOO - 004	D	ELEVATIONS
HOO - 005	D	ELEVATIONS
HOO - 006	D	SECTION A-A'
HOO - 007	D	DETAILS



PROPOSED NORTH ELEVATION

## **GENERAL NOTES:**

The proposed dwelling is to comply with standard building by-laws, Building Code of Australia NCC 2022 and all Australian Standards relevant to the classification of the

## THE PROPOSED DWELLING

- The proposed dwelling is a relocated building and is to be sited as shown.
- Location of building approximate only. Building must adhere to local council's minimum setbacks.
- All plumbing and drainage to local council requirements.
- Finished levels to be determined onsite.

- This building is an existing timber framed building with chamferboard cladding. CONCRETE
- Refer to Engineer's Specifications.

## ADDITIONAL TIMBERWORK

Refer to Engineer's Specifications

## TIMBER SCHEDULE

Refer to Engineer's Documents.

## TERRAIN

Refer to Site Classification Report CQ24307 by CQ Soil Testing

## SITE CLASSIFICATION

• The site classification has been determined to be classified as a " M" site as per soil report CQ24307 by CQ Soil Testing dated 22/11/2023. Refer to engineer's specifications for bored pier diameter and a minimum depth.

 Stump positions are indicative only. Refer to Engineer's Documents. **BRACING** 

Refer to Engineer's Specifications.

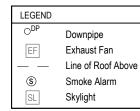
## TIE DOWN

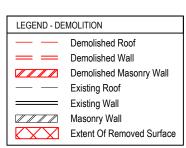
Refer to Engineer's Specifications.

## SUSTAINABILITY

As per Queensland Development Code Part MP4.1 & MP4.2:

- Ceiling Batts with minimum R3 Rating to be installed.
- All shower roses to be AAA-rated unless otherwise noted.
- All WC cisterns to be 6/3 litre dual-flush.
- Provide energy efficient lighting to at least 80 per cent of the house.
- Water pressure to any fixture must not exceed 500kPa. Water pressure limiting devices to be installed in areas with high water pressure.
- Provide greenhouse efficient hot water systems such as solar, heat pump or gas hot water with minimum 14 renewable energy certificates. Provide temp. limiting devices to all bathroom fixtures.



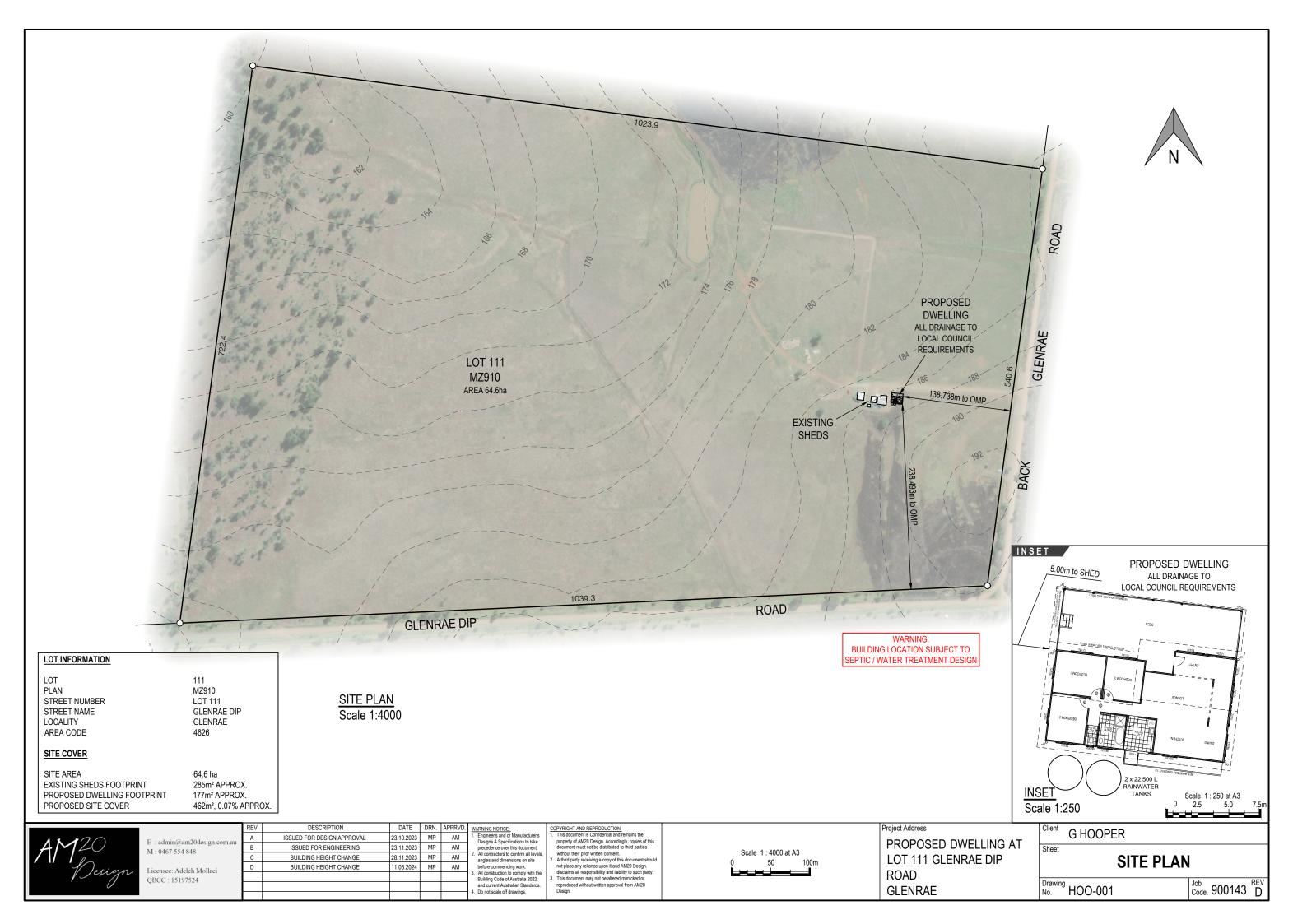


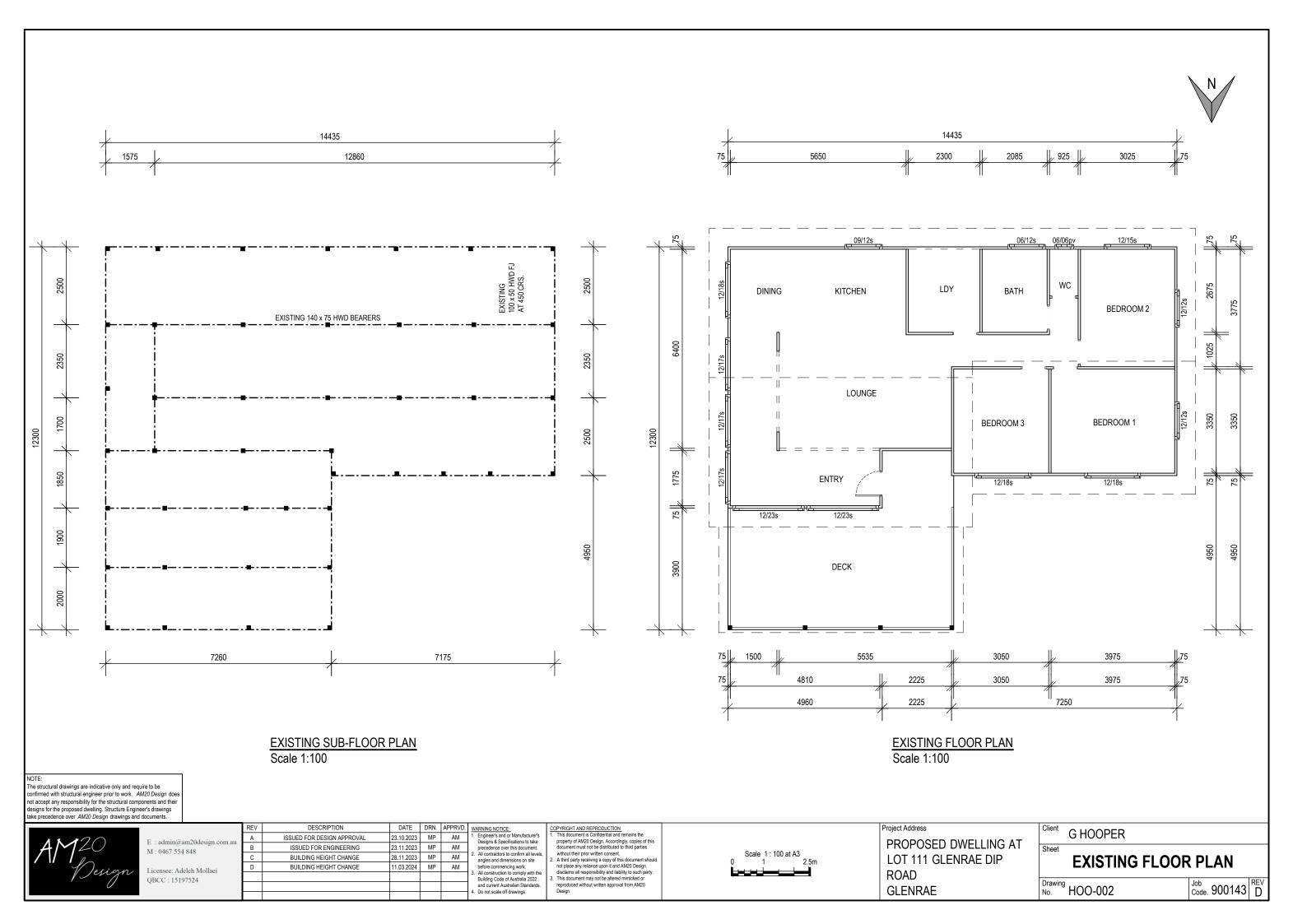
### WINDOW SCHEDULE a | Awning gb | Glass Brick

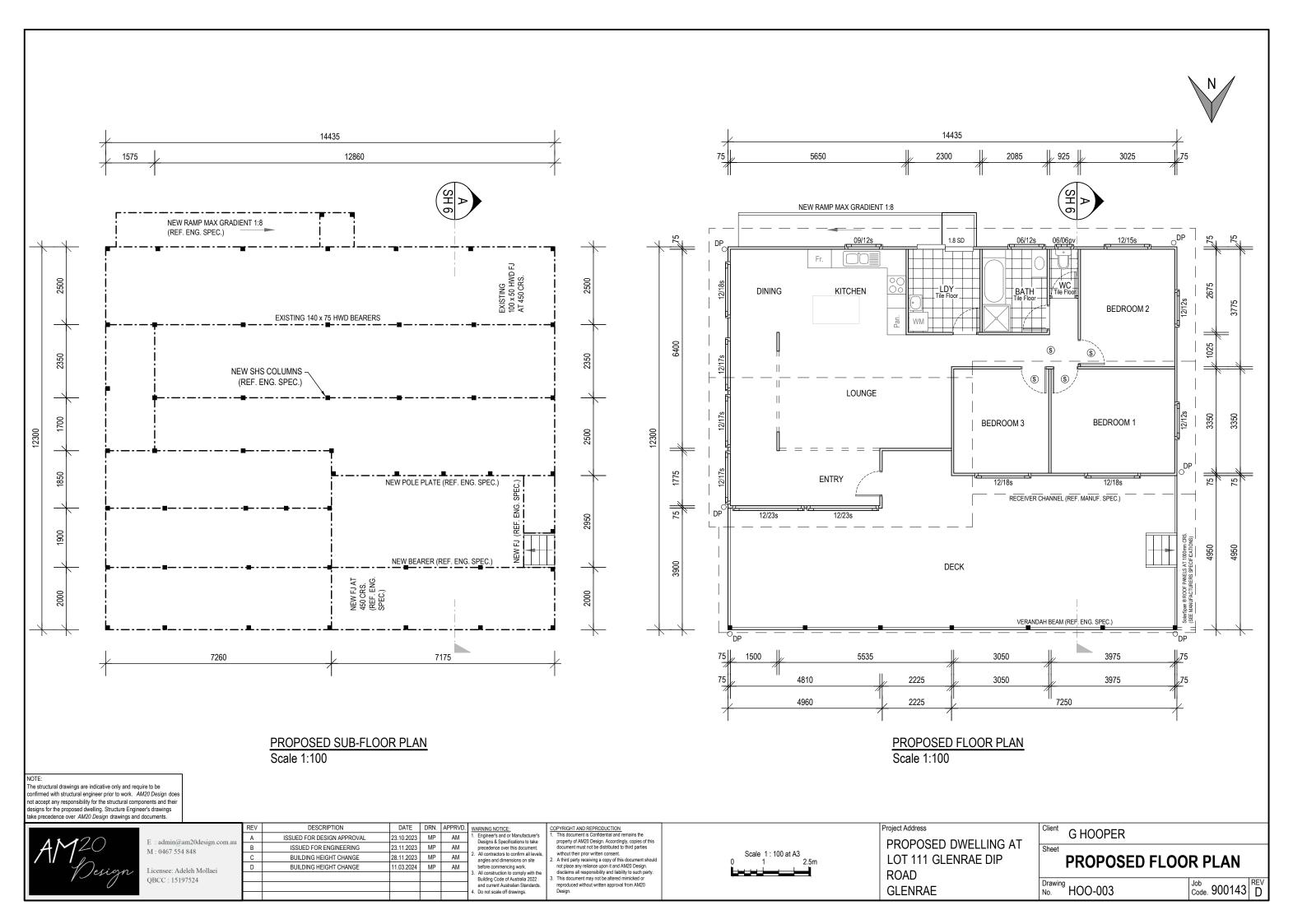
bf | Bi-Fold I | Louvre c | Casement obs | Obscured Glass da | Double Awning s | Sliding dh | Double Hung v | Vented

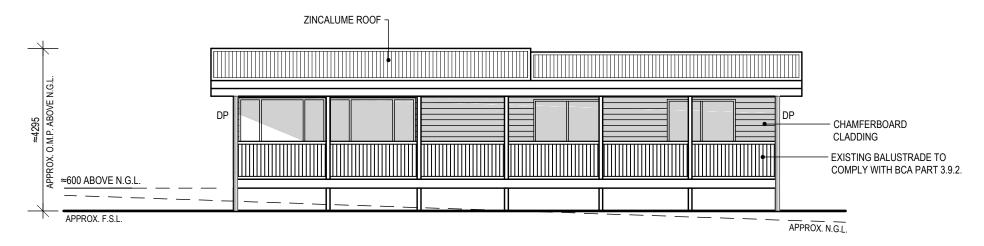
## f | Fixed

The structural drawings are indicative only and require to be confirmed with structural engineer prior to work. AM20 Design does not accept any responsibility for the structural components and their designs for the proposed dwelling. Structure Engineer's drawings take precedence over AM20 Design drawings and documents.



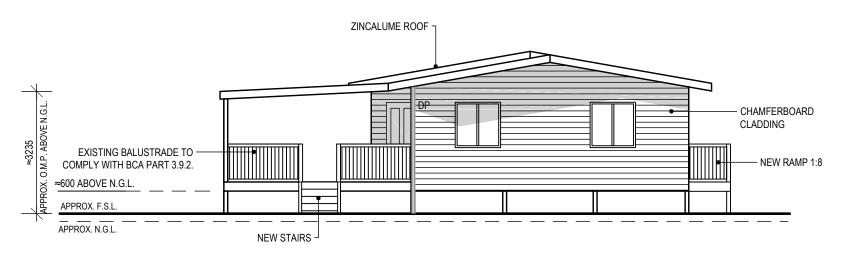






## PROPOSED NORTH ELEVATION

Scale 1:100



# PROPOSED WEST ELEVATION Scale 1:100

N.B. N.G.L. = NATURAL GROUND LINE F.S.L. = FINISHED SURFACE LEVEL

M: 0467 554 848 Licensee: Adeleh Mollaei QBCC: 15197524

D

DESCRIPTION DATE DRN. APPRVD. 23.10.2023 MP AM ISSUED FOR ENGINEERING 23.11.2023 MP AM 28.11.2023 MP AM BUILDING HEIGHT CHANGE BUILDING HEIGHT CHANGE 11.03.2024 MP AM

WARNING NOTICE:

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2. All contractors to confirm all levels, angles and dimensions on site before commencing work.

3. All construction to comply with the Building Code of Australia 2022 and current Australian Standards.

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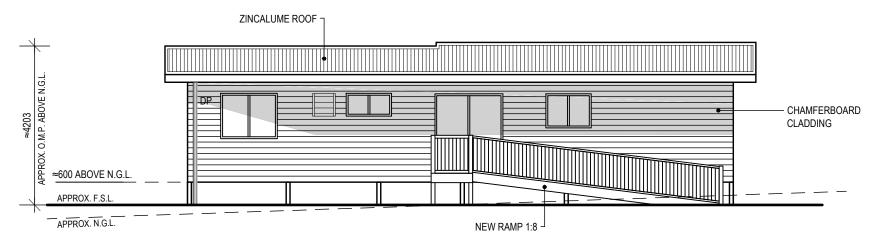
Scale 1: 100 at A3

Project Address PROPOSED DWELLING AT LOT 111 GLENRAE DIP ROAD **GLENRAE** 

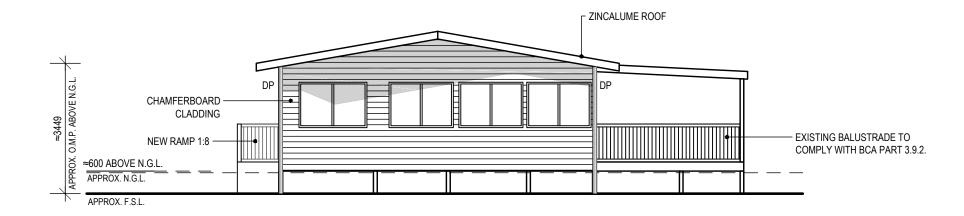
Client G HOOPER

Sheet **ELEVATIONS** 

Job Code. 900143 REV D Drawing No. HOO-004



# PROPOSED SOUTH ELEVATION Scale 1:100



# PROPOSED EAST ELEVATION Scale 1:100

N.G.L. = NATURAL GROUND LINE F.S.L. = FINISHED SURFACE LEVEL

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	ISSUED FOR DESIGN APPROVAL	23.10.2023	MP	AM	<ol> <li>Engineer's and or Manufact Designs &amp; Specifications to</li> </ol>
}	ISSUED FOR ENGINEERING	23.11.2023	MP	AM	precedence over this docum
;	BUILDING HEIGHT CHANGE	28.11.2023	MP	AM	<ol><li>All contractors to confirm all angles and dimensions on s</li></ol>
)	BUILDING HEIGHT CHANGE	11.03.2024	MP	AM	before commencing work.
					<ol> <li>All construction to comply w Building Code of Australia 2</li> </ol>
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					<ol><li>Do not scale off drawings.</li></ol>

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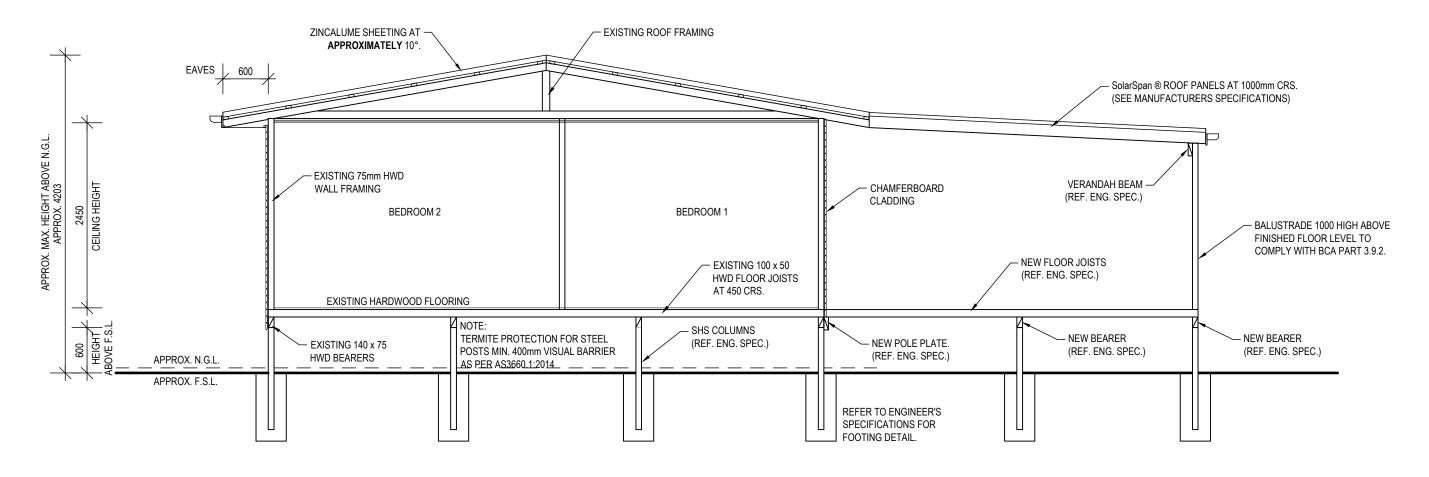
Project Address PROPOSED DWELLING AT LOT 111 GLENRAE DIP ROAD GLENRAE

Client G HOOPER

Sheet

**ELEVATIONS** 

Job Code. 900143 D REV Drawing HOO-005



SECTION A-A Scale 1:50

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Α	ISSUED FOR DESIGN APPROVAL	23.10.2023	MP	AM
В	ISSUED FOR ENGINEERING	23.11.2023	MP	AM
С	BUILDING HEIGHT CHANGE	28.11.2023	MP	AM
D	BUILDING HEIGHT CHANGE	11.03.2024	MP	AM

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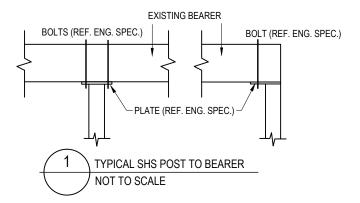
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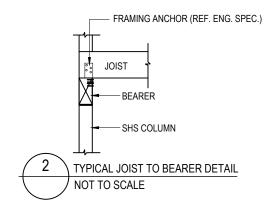
Scale 1:50 at A3 0.5 1.0 1.5m

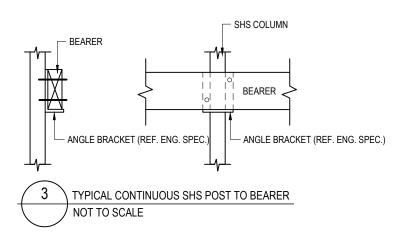
Project Address PROPOSED DWELLING AT **LOT 111 GLENRAE DIP** ROAD **GLENRAE** 

Client G HOOPER Sheet **SECTION A-A'** Drawing HOO-006

Job Code. 900143 REV D



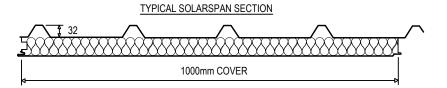


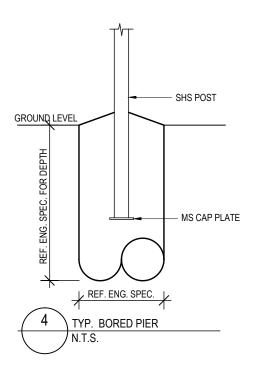


## SOLARSPAN SPAN TABLE

			Panel Thickness																			
			50mm         75mm         100mm         125mm         150mm         200mm							ı												
	ULS Design	Max S	pan (m)	Max.	Max S	Max Span (m) Max.		Max S	ax Span (m)	Max.		Max		Max Span (m)		n (m) Max.		Max Span (m)		Max S	pan (m)	Max.
Wind Class	Wind Pressure (kPa)	Single Span	Multi- Span	Cantilever (mm)	Single Span	Multi- Span	Cantilever (mm)	Single Span	Multi- Span	Cantilever (mm)	Single Span	Multi- Span	Cantilever (mm)	Single Span	Multi- Span	Max. Cantilever (mm)	Single Span	Multi- Span	Cantilever (mm)			
N2	2	4	4	550	5	5	900	5.1	6.0	1200	5.7	6.6	1600	6.0	7.2	2400	7.6	9.0	2750			
N3	2	3	3	550	4	4	900	3.9	4.8	1200	4.5	5.4	1600	4.8	5.1	1900	5.9	5.7	2400			
N4	4	2	2	550	3	2	900	3.3	3.3	1200	3.6	3.3	1400	3.9	3.3	1500	4.8	3.8	1600			
N5	5	2	-	550	2	2	800	2.7	2.1	900	3.0	2.1	900	3.0	2.1	900	3.9	2.5	1100			

SolarSpan Panel Properties								
Panel Thickness (mm)	50	75	100	125	150	200		
Mass (kg/m²)	10.6	10.9	11.3	11.6	12.0	12.7		
Thermal Performance at 8°C								
'R' Value (m² K/W)	1.6	2.3	2.9	3.6	4.2	5.5		
Thermal Performance at 20°C								
'R' Value (m² K/W)	1.6	2.2	2.8	3.5	4.1	5.3		





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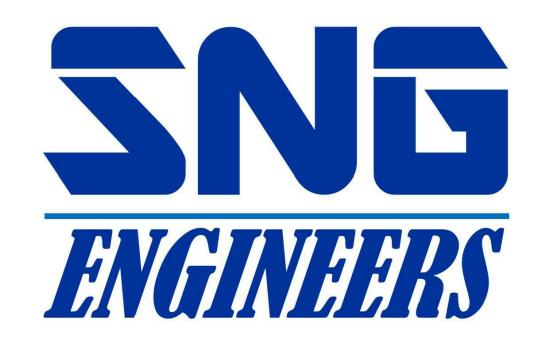
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Project Address PROPOSED DWELLING AT LOT 111 GLENRAE DIP ROAD **GLENRAE** 

Client	G HOOPER			
DETAILS DETAILS				
Drawing No.	HOO-007	Job Code.	900143	RE'



DRAWING INDEX				
SHEET NO.	SHEET NO. DRAWING TITLE			
000	INDEX PAGE			
001	NOTES 1			
002	NOTES 2			
003	NOTES 3			
004	NOTES 4			
101	FOOTING PLAN			
102	SURFACE DRAINAGE DETAILS			
103	PLUMBING DETAILS			
104	FRAMING & BRACING PLAN			
105	CONNECTION DETAILS - 1			
106	CONNECTION DETAILS - 2			

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- 5. IT IS ASSUMED THAT THE USER OF THESE DETAILS HAS A LEVEL OF FAMILIARITY AND COMPETENCY TO UNDERSTAND AND EXECUTE THE WORKS.
- 6. AT ALL TIMES COMMON SENSE IS TO BE USED.
- 7. IF EVER IN DOUBT, DON'T ASSUME. ASK!

STATUS:	CONSTRUCTION ISSUE			
REV:	DESCRIPTION:	BY:	DATE:	
1	CONSTRUCTION ISSUE	SG	07/03/24	

APPROVED BY:



**SNG** *ENGINEERS* 

SNG ENGINEERS

9/696 SANDGATE ROAD
CLAYFIELD, QLD 4011
(07) 3262 9138
info@sngengineers.com.au
www.sngengineers.com.au

G HOOPER LOT 111 GLENRAE DIP ROAD GLENRAE QLD 4626

OT: AM 20 DESIGN
JOB NO: 900143
REV C
DATED: 28/11/23

LOT 111 GLENRAE DIP ROAD
GLENRAE

INDEX PAGE

SUMLE AT AU.	DAIL	DRAWN:	CHECKED.
1:100 UNO	07/03/2024	JJ	SG
PROJECT NO:	DRAWING NO:		REVISION:
SNG-3798	00	00	1

### **GENERAL NOTES** FILL USED IN THE CONSTRUCTION OF A SLAB EXCEPT WHERE THE SLAB IS C.3. CONCRETE TO HAVE A MAXIMUM AGGREGATE SIZE OF 20mm WITH 80mm C.24. ALL REINFORCING BARS SHALL COMPLY WITH AS 4671. ALL FABRIC SHALL F.8. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL SUSPENDED SHALL CONSIST OF A CONTROLLED FILL OR ROLLED FILL IN MAXIMUM SLUMP (AND 100mm SLUMP FOR FOOTINGS & SLAB ON GROUND), COMPLY WITH AS 4671 AND SHALL BE SUPPLIED IN FLAT SHEETS. ARCHITECTURAL & OTHER CONSULTANTS DRAWINGS & ACCORDANCE WITH AS 2870: A WATER/CEMENT RATIO OF NOT GREATER THAN 0.65 AND A MAXIMUM C.25. WELDING AND HEATING OF REINFORCEMENT SHALL NOT BE PERMITTED SPECIFICATIONS & WITH SUCH OTHER WRITTEN INSTRUCTIONS FINAL BASIC DRYING SHRINKAGE STRAIN OF 800 x 10-6 UNLESS APPROVED ROLLED FILL CONSISTS OF MATERIAL COMPACTED IN LAYERS BY WITHOUT APPROVAL OF THE ENGINEER. AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL **OTHERWISE** REPEATED ROLLING WITH AN EXCAVATOR. ROLLED FILL SHALL NOT C.26. ALL STEEL REINFORCEMENT IN CONCRETE ELEMENTS SHALL BE INSPECTED DISCREPANCIES SHALL BE REFERRED TO THE NO ADDITIVES SHALL BE ADDED OR APPLIED TO THE CONCRETE MIX EXCEED 600MM COMPACTED IN LAYERS NOT MORE THAN 300MM FOR BY THE ENGINEER AND PASSED PRIOR TO POURING OF ANY CONCRETE. ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING WITH SAND MATERIAL OR 400MM COMPACTED IN LAYERS NOT MORE THAN WITHOUT THE APPROVAL OF THE ENGINEER C.27. FOR CONCRETE USING NORMAL PORTLAND CEMENT AS3972 - TYPES A OR D 150MM FOR OTHER MATERIAL. THE MAXIMUM PERMISSIBLE TRANSPORT TIME FOR CONCRETE BETWEEN WITHOUT ADMIXTURES, STRIPPING STAGES SHALL CONFORM TO THE CONTROLLED FILL CONSISTS OF WELL GRADED SAND FILL UP TO 800MM BATCHING AND PLACEMENT ON SITE SHALL BE IN ACCORDANCE WITH THE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE MINIMUM STRIPPING TIMES FOR THE APPROPRIATE EFFECTIVE SPANS AND DEEP, WELL COMPACTED IN NOT MORE THAN 300MM LAYERS BY CONTRACTOR SHALL CHECK AND CO-ORDINATE WITH THE TEMPERATURES GIVEN IN THE FOLLOWING TABLE. VIBRATING PLATE OR VIBRATING ROLLER. NON SAND FILL UP TO 400MM ARCHITECT AND OTHER CONSULTANTS FOR ALL STEPS, FALLS, DEEP, WELL COMPACTED IN NOT MORE THAN 150MM LAYERS BY A AMBIENT AIR MAX. BATCHING TO PLACEMENT TIME REBATES, SETDOWNS, CHASES AND PENETRATIONS MECHANICAL ROLLER, CLAY FILL SHOULD BE MOIST DURING TEMPERATURE DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE COMPACTION. THE DEPTHS OF FILL GIVEN ABOVE ARE DEPTHS 10° - 24°C 120 MINUTES MEASURED AFTER COMPACTION. FOR COMPACTED DEPTHS GREATER STRUCTURAL DRAWINGS MINIMUM STRIPPING TIME (DAYS) FOR THAN THAT GIVEN ABOVE THE FILL SHALL BE SUBJECT TO CONTROL & 25° - 27°C 90 MINUTES **MEMBER** VERIFY ALL DIMENSIONS ON SITE BEFORE MAKING SHOP AVERAGE AIR TEMP. DURING PÉRIOD MEMBER TESTING. IF TEST FAILS THEN PIERS ARE REQUIRED. CONTACT THIS MEMBER SPAN (m) PRIOR TO STRIPPING DRAWINGS OR COMMENCING FABRICATION. 28° - 30°C 60 MINUTES TYPF OFFICE PRIOR TO FURTHER CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SUITABLE QUARRY PRODUCT (20-80MM MAX IN DEPTH) MAY BE USED AS 31° - 33°C 45 MINUTES 21°C+ 10-21°C 5-10°C THE STRUCTURE AND ADJACENT STRUCTURES IN A STABLE LEVELLING/BEDDING LAYER TO LEVEL THE BUILDING PLATFORM PRIOR TO VERTICAL 34° - 36°C 30 MINUTES WALL COLUMN BEAM SLAB CONSTRUCTION. THE BEDDING LAYER SHALL BE COMPACTED TO THE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED AND SATISFACTION OF THE BUILDING INSPECTOR. SIDE NOT RECOMMENDED 37°C+ DURING THE WORKS. UNI OADET F.10. IF ANY FOOTING IS LOCATED SUCH THAT A LINE DRAWN AT 45 DEGREES THE CONTRACTOR MUST ENSURE THAT NO STRUCTURE ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL C 6 WALL COLLIMN OF (FOR CLAY & 30 DEGREES FOR SAND) FROM ITS BASE INTERSECTS A VERTICAL PROJECTS OUTSIDE THE TITLE BOUNDARIES. PRIVATE SERVICE TRENCH. THEN PIERS ARE REQUIRED. REFER TO THE NOT BE USED TO SPREAD CONCRETE. LOAD-BEARING and Loadei G.7. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE PRIVATE TRENCH SERVICE DETAIL FOR EXAMPLE. STRUCTURE ALL CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS. THE F.11. FOOTING & SLAB PIERS ARE REQUIRED WHERE UNCONTROLLED FILL AS1379 ADOPTING THE PROJECT ASSESSMENT METHOD FOR COMPRESSIVE JNDER 3 10 STRENGTH AND SLUMP COMPLIANCE. THE RESULTS OF ALL TESTS SHALL NCC, AND LOCAL COUNCIL REGULATIONS. UNDER THE EDGE BEAM/SLAB IS PRESENT. HORIZONTAL SLAB 3-6 10 14 21 BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW F.12. WHERE PIERS ARE USED TO SUPPORT A SLAB ON UNCONTROLLED FILL THIS REPORT IS BASED ON INFORMATION SUPPLIED BY THE OVER 6 14 21 28 ALL CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH PLUMBING & DRAINAGE PIPES FOUNDED WITHIN SUCH FILL SHALL BE HUNG CLIENT. IF ANY ASPECT OF THE SITE PREPARATION OR AS3600. WHERE CURING COMPOUNDS ARE USED IT MUST BE APPLIED AS UNDER 3 10 14 21 FROM THE SLAB MESH WITH CORROSIVE RESISTANT STRAPS PROPOSED CONSTRUCTION CHANGES FROM THAT ORIGINALLY FOLLOWS: HORIZONTAL **BFAM** 3-6 14 21 28 F 13 LINESS DISPLAYED ON THESE PLANS THE FEFECTS FROM TEMPORARY ADVISED. THE ENGINEER MUST BE NOTIFIED SO THAT ANY C.8.1. ONTO SLAB WITHIN 2HRS OF FINISHING OPERATION. EXCAVATIONS FOR THE REPAIR OR REPLACEMENT OF SERVICES HAVE NOT OVER 6 28 28 21 NECESSARY AMENDMENTS CAN BE MADE BEEN TAKEN INTO ACCOUNT. ONTO WALLS AND COLUMNS IMMEDIATELY AFTER REMOVAL OF NOTE: THIS TABLE IS BASED ON SUPERIMPOSED CONSTRUCTION LOADS NOT ALL NON-LOADBEARING WALLS SHALL BE KEPT 20MM CLEAR OF F.14. ALL WATER AND LOOSE MATERIAL SHALL BE REMOVED FROM FOOTING FORMWORK EXCEEDING 1.0kPa. THE UNDERSIDE OF SLABS, BEAMS AND OTHER STRUCTURAL WHEN THE AIR TEMPERATURE EXCEEDS 300C, ALIPHATIC ALCOHOL SHALL EXCAVATIONS PRIOR TO CONCRETING. C.28. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON INSULATED STEEL ELEMENTS, UNLESS NOTED OTHERWISE. BE APPLIED TO THE CONCRETE SURFACE OF SLABS IMMEDIATELY AFTER F.15. UNLESS OTHERWISE NOTED ON DRAWINGS, ALL FOOTINGS SHALL BE PLASTIC OR CONCRETE CHAIRS GENERALLY AT NOT GREATER THAN 800 THE INITIAL SCREED AND AGAIN AFTER BULL FLOATING. G.10. THE CONTRACTOR IS TO CONFIRM THE LOCATIONS OF ALL FOUNDED INTO MATERIAL HAVING A SAFE BEARING CAPACITY OF NOT LESS CENTRES BOTH WAYS RODS SHALL BE TIED AT ALTERNATE C.10. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED THAN 100KPA INTERSECTIONS, PLASTIC CHAIRS TO BE USED AT ALL EXTERNAL SOFFITS EXISTING UNDERGROUND SERVICES AND TAKE NECESSARY AND SIDES WITHIN 1KM OF FORESHORE SEAWALL UNO MEASURES TO AVOID CLASHES PRIOR TO COMMENCING F.16. IT IS STRONGLY RECOMMENDED THAT SNG ENGINEERS BE CONTACTED TO C.11. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY. CONDUCT AT LEAST ONE INSPECTION DURING CONSTRUCTION TO CONFIRM EARTHWORKS AND/OR PILING. THE SITE CLASSIFICATION AND SOIL CONDITIONS. SHOULD CONDITIONS C.12. WHERE FALLS IN SLABS OCCUR, THICKNESSES NOTED ARE MINIMUM G.11. THE STRUCTURAL ENGINEERING DESIGN DOCUMENTED FOR THIS DIFFERING FROM THOSE USED IN THE DESIGN STAGE BE DISCOVERED AT REQUIRED PROJECT RELATES TO THE PROPOSED NEW CONSTRUCTION OF THE TIME OF INSPECTION, SNG ENGINEERS RESERVES THE RIGHT TO C.13. CONCRETE SHALL BE KEPT FREE OF SUPPORTING BRICKWORK WITH 2 BUILDING ELEMENTS. THE CONDITION AND COMPLIANCE OF AMEND DESIGN DETAILS IF NECESSARY. LAYERS OF MALTHOID. HORIZONTAL FORMWORK SHALL BE STRIPPED WHEN EXISTING STRUCTURAL COMPONENTS HAVE NOT BEEN A LEVELING SAND LAYER (50MM MINIMUM IN THICKNESS) SHALL BE PLACED APPROVED BY THE ENGINEER. ASSESSED NOR CERTIFIED AS PART OF SNG ENGINEERS UNDER SLABS ON GROUND UNO. THE SAND SHALL BE SALT FREE AND C.14. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY COMMISSION ON THIS PROJECT UNLESS SPECIFICALLY STATED COMPACTED TO 65% DENSITY INDEX. WHERE SHOWN OR APPROVED BY THE ENGINEER. ON THE DESIGN DOCUMENTS. F.18. A VAPOUR BARRIER OF 0.2MM (200UM) MINIMUM THICK POLYTHENE C 15 NO HOLES CHASES OR EMBEDDED ITEMS OTHER THAN THOSE SHOWN ON SHEETING SHALL BE PLACED BENEATH SLABS ON GROUND UNLESS NOTED G.12. THESE NOTES HAVE BEEN PROVIDED TO SUPPLEMENT THE THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS DRAWINGS WITH REGARD TO STANDARD OF CONSTRUCTION AND WITHOUT PRIOR APPROVAL OF THE ENGINEER. CONDUITS, PIPES ETC. CONSTRUCTION ISSUE SG 07/03/24 UNLESS NOTED OTHERWISE ALL RE-ENTRANT CORNERS MUST HAVE MATERIALS. NOT ALL NOTES ARE NECESSARILY RELEVANT TO SHALL NOT BE PLACED IN THE COVER THICKNESS OF THE CONCRETE. BY: DATE: DESCRIPTION 2000mm LONG 3/N12 OR 3-L11 TRENCH MESH TIED UNDER THE SLAB TOP ALL DRAWINGS C.16. WHERE SERVICE PIPES PENETRATE CONCRETE ELEMENTS, PROVISION **CONSTRUCTION ISSUE** SHOULD BE MADE TO ALLOW FOR MOVEMENT OF THE ELEMENT. **FOOTING & SLAB CONCRETE** NOTES: C.17. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN FOOTINGS SHALL BE LOCATED CENTRALLY UNDER COLUMNS AND WALLS ACCORDANCE WITH AS3610 FORMWORK CODE, UNLESS NOTED OTHERWISE ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH UNLESS NOTED OTHERWISE. ON THE DRAWINGS. AS3600 AND/OR AS2870 AND THE REFERENCED STANDARDS THEREIN. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 2870 C.18. STRIPPING OF FORMWORK AND REPROPPING OF SUSPENDED SLABS AND U.N.O. THE CONCRETE STRENGTH GRADE AND THE COVER TO RPEQ 18398 & NATIONAL CONSTRUCTION CODE (N.C.C.). BEAMS SHALL BE CARRIED OUT PROGRESSIVELY SO THAT AT NO STAGE IS REINFORCEMENT FOR THE VARIOUS CONCRETE ELEMENTS SHALL BE AS REFER TO SOIL REPORT AND FOOTING PLAN FOR REFERENCE TO THE THE SLAB OR BEAM UNSUPPORTED UNTIL IT IS PERMITTED TO FULLY LISTED BELOW: SNG ENGINEERS REQUIRED FOUNDING MATERIAL FOR THE FOOTINGS, THE SOIL PROFILE REMOVE ALL PROPPING COVER U.N.O (mm) ACROSS THE SITE AND SPECIFIC SITE RECOMMENDATIONS. ELEMENT CONCRETE GRADE C.19. IN MULTISTORY CONSTRUCTION, PROPS SHALL BE LOCATED IN THE SAME 9/696 SANDGATE ROAD SHOULD SOIL CONDITIONS ENCOUNTERED ON SITE DIFFER SIGNIFICANTLY POSITION ON EACH FLOOR SO THAT THEY WILL BE CONTINUOUS IN THEIR CLAYFIELD, QLD 4011 20 TOP RESIDENTIAL SLABS ON GROUND (07) 3262 9138 FROM THOSE INDICATED IN THE SOIL TEST NOTED IN THIS DESIGN, THE SUPPORT FROM FLOOR TO FLOOR. WHERE THE NUMBER OF PROPS ON A 30 BTM. & SIDES PROTECTED BY DAMP-PROOF N20 FLOOR IS REDUCED, THE REMAINING PROPS SHALL BE LOCATED DIRECTLY nfo@snaenaineers.com.au ENGINEER MUST BE NOTIFIED BEFORE PROCEEDING AS THE SITE www.sngengineers.com.au CLASSIFICATION MAY NEED REVISING & MODIFICATIONS TO THE DESIGN MEMBRANE UNDER PROPS ON THE FLOOR ABOVE. 40 TOP (EXT.) C.20. PROPPING TO SUSPENDED SLABS AND BEAMS SHALL NOT BE REMOVED MAY BE REQUIRED. RESIDENTIAL FOOTINGS N20 50 TYPICAL UNTIL THE CONCRETE HAS ACQUIRED SUFFICIENT STRENGTH TO SUPPORT WHILE A REASONABLE EFFORT IS MADE TO ASSESS THE SITE'S G HOOPER SAFELY ITS OWN WEIGHT AND ANY SUPERIMPOSED LOAD WITHOUT SUITABILITY FOR THE PROPOSED CONSTRUCTION, THIS DESIGN DOES NOT INDUSTRIAL OR EXTERNAL SLABS 40 TOP LOT 111 GLENRAE DIP ROAD N32 TAKE INTO ACCOUNT SLOPE STABILITY. IF REQUIRED BY THE COUNCIL, A DAMAGE OR UNACCEPTABLE DEFLECTION GIENRAF PAD FOOTINGS OR BORED PIERS N25 65 QLD 4626 SUITABLY QUALIFIED PERSON SHOULD BE ENGAGED TO UNDERTAKE. C.21. NO MASONRY WALLS OR SIMILAR PERMANENT LOADINGS SHALL BE FRECTED ON ANY PART OF THE STRUCTURE WHILE THE PART IS STILL THE FOOTING DETAILS SHOWN ARE FOR THE SITE CLASSIFICATION STRIP FOOTINGS N25 65 AM 20 DESIGN SUPPORTED BY PROPS. STIPULATED. WHILST EVERY CARE HAS BEEN TAKEN TO VERIFY THAT THE JOB NO: 900143 BORED PIERS N25 75 INFORMATION SHOWN IS CORRECT, SNG ENGINEERS TAKE NO C.22. U.N.O NO ALLOWANCE HAS BEEN MADE FOR STACKED MATERIALS OR DATED: 28/11/23 RESPONSIBILITY FOR VARIATIONS WHICH MAY OCCUR DUE TO VARIATIONS 30 TOP & SIDES MACHINERY ON THE CONCRETE STRUCTURE. N32 SUSPENDED SLAB IN SITE CONDITIONS. C.23. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT 20 BTM LOT 111 GLENRAE DIP ROAD TOPSOIL & ORGANIC MATERIAL SHALL BE REMOVED FROM THE NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE. **BEAMS** N32 45 TYPICAL **GLENRAE** CONSTRUCTION PAD AND STOCKPILED FOR LATER USE IN LANDSCAPING. ANY LOOSE OR SOFT MATERIAL ENCOUNTERED SHALL ALSO BE REMOVED 45 TOP VOIDS CREATED FROM THE REMOVAL OF POOR MATERIAL OR VEGETATION STAIRS N32 NOTES -1 35 BTM SHALL BE FILLED AND COMPACTED WITH SUITABLE MATERIAL TO A MINIMUM DENSITY RATIO OF 95% STANDARD COMPACTION FOR COHESIVE 30 SIDES (INT.) SOILS OR 65% MINIMUM DENSITY INDEX FOR COHESIONLESS SOILS. 1:100 UNO 07/03/2024 N32 SG WALLS 40 SIDES (EXT.) SNG-3798 001 **COLUMNS** N32 40 TYPICAL

## CONCRETE NOTES CONT

229. REINFORCEMENT SYMBOLS:

Symbol	Description
N	DENOTES GRADE D500 HIGH STRENGTH DEFORMED BARS TO AS 4671.
R	DENOTES GRADE R250 HOT ROLLED PLAIN BARS TO AS 4671.
SL	DENOTES HARD-DRAWN WIRE SQUARE REINFORCING FABRIC TO AS 4671.
RL	DENOTES HARD-DRAWN WIRE RECTANGULAR REINFORCING FABRIC TO AS 4671.

- C.30. SPLICES IN REINFORCEMENT MADE IN POSITIONS OTHER THAN SHOWN SHALL BE TO THE APPROVAL OF THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF
- C.31. SLAB FABRIC SHALL BE LAPPED ONE LULL PANEL OF FABRIC PLUS 50MM SO THAT THE TWO OUTERMOST TRANSVERSE WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST TRANSVERSE WIRES OF THE SHEET BEING LAPPED

TYPICAL DAD DEINEODOFMENT LAD LENOTUC

C.32. BAR REINFORCEMENT SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING TABLE.

TYPICAL BA	AR REINFORCEMENT I	LAP LENGIHS
BAR	LAP LENGTH UNO	HORIZONTAL BARS WITH GREATER THAN 300mm OF CONCRETE CAST BELOW THEM
N12	550	750
N16	800	1100
N20	1100	1400
N24	1250	1600
N28	1400	1800
N32	1600	2100
N36	2000	2500
WHERE LAPS ARE SHOWN	ON THE DRAWINGS THE AI	BOVE LAP LENGTHS SHALL

BE ADOPTED UNLESS NOTED OTHERWISE. WHERE BARS OF DIFFERENT DIAMETER ARE SHOWN LAPPED, ADOPT THE LAP LENGTH APPROPRIATE TO THE SMALLER DIAMETER BAR

## DRAINAGE/PLUMBING/TREES & MAINTENANCE

- D.1. ALL WORKMANSHIP & MATERIAL SHALL BE IN ACCORDANCE WITH AS2870.
  - DRAINAGE SHALL BE CONSTRUCTED TO AVOID WATER PONDING AGAINST OR NEAR THE FOOTING. THE GROUND IN THE IMMEDIATE VICINITY OF THE PERIMETER FOOTING, INCLUDING THE GROUND UPHILL FROM THE SLAB ON CUT & FILL SITES, SHALL BE GRADED TO FALL 50MM MINIMUM AWAY FROM THE FOOTING OVER A DISTANCE OF 1.0M. SURFACE OR SUBSURFACE DRAINS SHALL BE USED TO CHANNEL WATER AWAY & CONNECT TO STORMWATER SYSTEM, ANY PAVING SHALL ALSO BE SUITABLY SLOPED ATTENTION TO SITE GRADING/SITE DRAINAGE IS REQUIRED FROM THE START OF CONSTRUCTION.
- WHERE FILLING IS PLACED ADJACENT TO THE BUILDING, THE FILLING
- DISCHARGE FROM THE DOWNPIPES MUST BE DIRECTED AWAY FROM THE BUILDING DURING CONSTRUCTION TO ENSURE WATER DOES NOT DISCHARGE OR POND ADJACENT TO THE FOOTINGS.
- PLUMBING TRENCHES SHALL BE SLOPED AWAY FROM THE HOUSE & SHALL BE BACKFILLED WITH CLAY IN THE TOP 300MM WITHIN 1.5M OF THE HOUSE. THE CLAY USED FOR BACKFILLING SHALL BE COMPACTED. WHERE PIPES PASS UNDER THE FOOTING SYSTEM, THE TRENCH SHALL BE BACKFILLED WITH MOIST CLAY OR BENTONITE AT THE HIGH END OF THE FLOW TO RESTRICT THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM.
- EXCAVATIONS NEAR THE EDGE OF THE FOOTING SYSTEM SHALL BE BACKEILLED IN SUCH A WAY AS TO PREVENT ACCESS OF WATER TO THE FOUNDATION, FOR EXAMPLE, EXCAVATIONS SHOULD BE BACKFILLED. ABOVE OR ADJACENT THE FOOTING WITH MOIST CLAY COMPACTED BY HAND-RODDING/TAMPING. POROUS MATERIAL SUCH AS SAND, GRAVEL OR BUILDING RUBBLE SHOULD NOT BE USED.
- WATER RUN-OFF SHALL BE COLLECTED & CHANNELED AWAY FROM THE HOUSE DURING CONSTRUCTION.
- PENETRATIONS OF THE EDGE BEAMS & FOOTING BEAMS ARE TO BE AVOIDED, BUT WHERE NECESSARY SHALL BE SLEEVED TO ALLOW FOR MOVEMENT.

- D.9. CONNECTION OF STORMWATER DRAINS & WASTE DRAINS SHALL INCLUDE FLEXIBLE CONNECTIONS (AS NECESSARY)
- D.10. ADDITIONAL PLUMBING REQUIREMENTS ARE NEEDED FOR MODERATELY HIGHLY & EXTREMELY REACTIVE SITES IN ACCORDANCE WITH CLAUSE 6.6 (F) FROM AS 2870.
- D.11. PLUMBING & DRAINAGE UNDER THE SLAB SHOULD BE AVOIDED WHERE PRACTICAL, REFER AS 2870 CLAUSE 5.6.4 (D).
- D.12. ALL PIPEWORK INCLUDING STORMWATER FITTINGS & ADAPTERS SHOULD BE PROTECTED FROM MECHANICAL DAMAGE.
- D.13. PROVISIONS SHOULD BE MADE FOR THE CONNECTION OF OVERFLOW OR WATER DISCHARGE FROM FIXTURES SUCH AS HOT WATER SYSTEMS & AIR CONDITIONERS TO A DRAIN AS REQUIRED BY THE RELEVANT LOCAL
- D.14. WHERE TERMITE PROTECTION IS REQUIRED, INSTALL IN ACCORDANCE WITH AS3660. BUILDER SHALL CONFIRM WITH OWNER THE PREFERRED METHOD OF TERMITE MANAGEMENT. OWNER IS RESPONSIBLE FOR ONGOING INSPECTION OF STRUCTURAL ELEMENTS & ENSURING THAT TERMITE MANAGEMENT SYSTEMS ARE NOT BREACHED.
- D.15. THE RECOMMENDED DISTANCE THAT A NEW TREE SHOULD BE LOCATED FROM A DWELLING WOULD BE EQUAL OR GREATER THAN 75% OF THE MATURE HEIGHT FOR CLASS M SITES, 100% OF THE MATURE HEIGHT FOR CLASS H1 & H2 SITES, 150% OF THE MATURE HEIGHT FOR CLASS E SITES.
- D.16. THIS DESIGN IS BASED UPON THE NORMAL FOOTING PERFORMANCE CRITERIA PROVIDED IN TABLE 2.2 OF AS2870-2011 WITH DAMAGE CATEGORIES DETAILED IN APPENDIX C. IF THESE PERFORMANCE CRITERIA IS UNSUITABLE FOR THIS DWELLING PLEASE CONSULT THIS OFFICE FOR ADDITIONAL ENGINEERING ADVICE & DESIGN SERVICES.
- D.17. APPENDIX A OF AS 2870 DEFINES THE OWNER AS THE PERSON OR ORGANISATION RESPONSIBLE FOR THE MAINTENANCE OF THE BUILDING &
- D.18. THE OWNER'S ATTENTION IS DRAWN TO APPENDIX B 'PERFORMANCE CRITERIA & FOUNDATION MAINTENANCE' & APPENDIX C 'CLASSIFICATION OF DAMAGE DUE TO FOUNDATION MOVEMENTS' OF AS 2870-2011.
- D.19. WE ALSO DIRECT THE OWNER TO THE CSIRO PUBLICATION BTF 18 'FOUNDATION MAINTENANCE & FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE. COPIES OF THIS PUBLICATION ARE AVAILABLE FROM CSIRO PUBLISHING ON PH: 1300-788-000 OR AT HTTP://WWW.PUBLISH.CSIRO.AU/PID/7076.HTM. THIS REPORT MAY BE RENDERED INVALID IF THE PROPERTY IS NOT MAINTAINED AS RECOMMENDED IN THIS PUBLICATION
- D.20. THE LONG TERM PERFORMANCE OF THE FOOTINGS AS DESIGNED IS DEPENDANT ON THE ONGOING SITE MAINTENANCE BY OWNER INCLUDING FACTORS SUCH AS SITE DRAINAGE, VEGETATION & WATERING OF AREAS ADJACENT TO THE DWELLING.
- D.21. WATERING OF LAWNS & GARDENS SHOULD BE CONSISTENT. OVER WATERING CAN DAMAGE FOOTINGS. EQUALLY FOOTINGS MAY BE DAMAGED BY PROLONGED PERIODS OF NEGLECT AFTER YEARS OF CAREFUL WATERING, LEAKING TAPS & PIPES & BLOCKED DRAINS SHOULD BE REPAIRED PROMPTLY. PROLONGED NEGLECT CAN LEAD TO DAMAGED
- D.22. IT IS HIGHLY RECOMMENDED THAT CONCRETE PAVING BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE DWELLING. ALL CONCRETE PATHS & THE GROUND ON WHICH THEY ARE LAID SHALL SLOP AWAY FROM THE BUILDING & BE DRAINED. DRAINAGE IN THE FORM OF SPOON DRAINS &/OR PITS, CONNECTED TO A LEGAL POINT OF DISCHARGE SHALL BE PROVIDED. ALL CONCRETE PATHS SHALL BE SEPARATED FROM STRUCTURES WITH A 10MM LAYER OF "ABLEFLEX" OR SIMILAR.
- SHALL BE COMPACTED & GRADED TO ENSURE DRAINAGE OF WATER AWAY D.23. WHERE SEAL COATS HAVE BEEN APPLIED TO EXTERNAL SLABS WITHIN 1KM OF SALT WATER, THE CONDITION OF THE SEALANT IS TO BE MONITORED & MAINTAINED THROUGH THE LIFE OF THE SLAB.
  - D.24. AS PER CLAUSE 1.3.1 BUILDINGS DESIGNED & CONSTRUCTED TO AS 2870 ON A NORMAL SITE DOES NOT GUARANTEE A DISTRESS FREE DWELLING. BUILDINGS ARE EXPECTED TO EXPERIENCE EITHER NO DAMAGE, A LOW INCIDENCE OF DAMAGE CATEGORY 1 & OCCASIONAL INCIDENCE OF DAMAGE CATEGORY 2 AS SHOWN IN TABLE BELOW

SUMMARY OF AS2870-2011 - APPENDIX C TABLES C1 & C2			
DAMAGE CATEGORIES	WALL CRACKS	SLAB CRACKS	LEVEL CHANGES OVER 3m
0 — Negligible	< 0.1mm	< 0.3mm	< 8mm
1- Very Slight	< 1mm	< 1mm	< 10mm
2 — Slight	< 5mm	< 2mm	< 15mm
3 — Moderate	5mm to 15mm	2mm to 4mm	15mm to 25mm
4 – Severe	15mm to 25mm	4mm to 10mm	> 25mm

### LOADINGS

THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN S.1. DESIGNED FOR THE FOLLOWING LIVE LOADS:

LOCATION	UNIFORM LOAD (kPa)	POINT LOAD (kN)
GENERAL	1.5	1.8
BALCONIES	2.0	1.8
LOBBY, STAIRS, CORRIDORS	4.0	4.5
CAR PARKS	2.5	13.0
ROOF	0.25	1.1
PLANT ROOMS & OFFICE	5.0	4.5

- 1.2 WIND LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH AS/NZS 1170.2 & AS 4055 AND THE FOLLOWING PARAMETERS: IMPORTANCE LEVEL - 2. REGION - B. TERRAIN CATEGORY - 3. TOPOGRAPHIC CLASS - TO & PARTIAL SHIELDING
- LOAD COMBINATIONS HAVE BEEN CALCULATED IN ACCORDANCE WITH AS/NZS 1170.0

### TIMBER FRAMING NOTE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1720 - TIMBER STRUCTURES CODE, AS1684 - RESIDENTIAL TIMBER FRAMED CONSTRUCTION STANDARD AND THE STANDARDS THEREIN
- T.2. ALL FRAMING, BRACING AND TIE-DOWN INFORMATION SPECIFIED FORM THE BASIS FOR THE DESIGN OF THE STRUCTURAL SUPPORT ELEMENTS DOWN TO THE FOUNDATIONS. ALTERNATIVE SOLUTIONS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER
- PREFABRICATED TIMBER ROOF TRUSSES, PROPRIETARY FLOOR JOIST SYSTEMS AND ALTERNATIVE TIMBER ELEMENTS TO THOSE SHOWN ON THE ENGINEERING DRAWINGS ARE TO BE DESIGNED AND CERTIFIED BY THE SUPPLIER'S STRUCTURAL ENGINEER. DESIGN AND INSPECTION CERTIFICATES FOR THESE ELEMENTS ARE TO BE ISSUED TO THE BUILDER FOR LODGMENT WITH THE LOCAL AUTHORITY.
- T.4. LINTELS CARRYING CONCENTRATED LOADS FROM GIRDER TRUSSES SHALL BE CHECKED BY THE TRUSS MANUFACTURER AND RE-SPECIFIED IF REQUIRED.
- UNLESS NOTED OTHERWISE THE FLOOR AND DECK JOISTS TO BE AT MAXIMUM 450mm SPACING & BEARERS AT MAXIMUM 2400mm SPACING.
- WALL STUDS FOR LOAD BEARING WALLS SHALL NOT BE NOTCHED.
- T.7. ALL BRACING PANELS TO COMPLY WITH AS/NZS 2269:1994.
- PLYWOOD BRACING PANELS TO BE FIXED IN ACCORDANCE WITH AS1684.2-1999 TABLE 8.18 TYPE (H) METHOD B TO PROVIDE THE MINIMUM BRACING CAPACITY SPECIFIED.
- ALL WALL CLADDING SHALL BE FIXED IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATIONS.
- T.10. TERMITE PROTECTION TO BE PROVIDED TO ALL SUSCEPTIBLE TIMBER FRAMING IN ACCORDANCE WITH A.S.3660.1
- ALL TIMBER MEMBERS USED ARE TO HAVE A MINIMUM LEVEL OF DURABILITY AS SPECIFIED IN AS1684.2-APPENDIX B
- T.12. ALL MEMBERS SHALL CARRY AN INDUSTRY STANDARD LABEL OR MARKING IDENTIFYING THE STRESS GRADE, SEASONING CONDITION AND TIMBER SPECIES WHERE APPLICABLE
- T 13 ALL TIMBER SHALL BE SEASONED UNLESS NOTED OTHERWISE THE MINIMUM STRESS GRADE FOR TIMBER SHALL BE F5 JD4 U.N.O.
- T.14. ALL TIMBER SHALL BE FREE OF GUM VEINS, KNOTS AND ANY OTHER IMPERFECTIONS WITHIN CONNECTION ZONES
- T.15. ALL FRAMING. BRACING AND TIE-DOWN NOT DETAILED TO BE CONSTRUCTED IN ACCORDANCE WITH AS1684.2-1999 RESIDENTIAL TIMBER FRAMED CONSTRUCTION (NON-CYCLONIC AREAS).
- T.16. UNLESS NOTED ON THE STRUCTURAL DRAWINGS, THE TIMBER ELEMENTS SPECIFIED HAVE NOT BEEN DESIGNED TO SUPPORT HANGING DOORS, AIR CONDITIONING UNITS, WATER TANKS, ETC. THE CONTRACTOR IS TO SUPPLY THE STRUCTURAL ENGINEER WITH THE NECESSARY INFORMATION TO DESIGN CHECK THE FRAMING ELEMENTS AND MAKE CHANGES ACCORDINGLY IF REQUIRED.
- WASHERS SHALL BE PROVIDED UNDER ALL NUTS AND BOLT HEADS BEARING AGAINST TIMBER IN ACCORDANCE WITH THE FOLLOWING TABLE:

BOLT SIZE	WASHER
UP TO M12	50 x 50 x 3.0mm THICK
M16	57 x 57 x 4.0mm THICK
M20	65 x 65 x 5.0mm THICK
OVER M20	75 x 75 x 6.0mm THICK

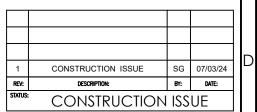
T.18. THE TIMBER MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE THOSE REQUIRED FOR THE COMPLETE STRUCTURE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY CONNECTIONS, SUPPORTS AND BRACING TO MAINTAIN THE STABILITY AND SAFETY OF THE TIMBERWORK THROUGHOUT THE CONSTRUCTION PERIOD.

## STRUCTURAL STEEL FRAMING

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100-STEEL STRUCTURES AND AS/NZS 4600-COLD-FORMED STEEL STRUCTURES CODE AND THE REFERENCED STANDARDS THEREIN. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH PROVISIONS
- THE CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW BY THE ENGINEER AND ARCHITECT, BEFORE FABRICATION
- THE STEEL MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE THOSE REQUIRED FOR THE COMPLETED STRUCTURE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY CONNECTIONS SUPPORTS AND BRACING TO MAINTAIN THE STABILITY AND SAFETY OF THE STEELWORK THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR ADDITIONAL STEELWORK, CLEATS AND BOLTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- S.5. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING

ELEMENT	STEEL GRADE
HOT ROLLED SECTIONS	300 PLUS
WELDED SECTIONS (WB, WC)	300 PLUS
CHS UP TO AND INCLUDING 168 DIA.	C250
CHS GREATER THAN 168 DIA, SHS AND RHS	C350
FLOOR PLATES	250
MERCHANT BAR - ROUNDS, SQUARES & FLATS	300 PLUS
COLD FORMED STEEL SECTIONS COMPLYING WITH AS1397.	G450, G500, G550

≤ 1.0mm BMT min. G550, 1.0-1.2mm min. G500, ≥ 1.6mm BMT min. G450. UNIDENTIFIED STEEL HAS NOT BEEN CONSIDERED AND THEREFORE NOT







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SNG ENGINEERS

G HOOPER LOT 111 GLENRAE DIP ROAD GIENRAF QLD 4626 AM 20 DESIGN JOB NO: 900143 DATED: 28/11/23

SITE:	LOT 111 GLENRAE DIP ROAD GLENRAE
TITLE:	NOTES - 2

SCALE AT A3:	DATE:	DRAWN:	CHECKED:	
1:100 UNO	07/03/2024	JJ	SG	
PROJECT NO:	DRAWING NO:		REVISION:	
SNG-3798	002		1	

M.18.3. TO ENSURE FULL COMPLIANCE WITH AS 4773 & LOCAL REQUIREMENTS S.6. WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AS/NZS MASONRY BLOCKWORK & BRICKWORK (I.E. QBCC SUBSIDENCE POLICY) SNG ENGINEERS RECOMMENDS A M.1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH MASONRY ARTICULATION LAYOUT IS PREPARED PER DESIGN. THE WELDING CONSUMABLES SHALL BE GRADE E48XX OR W50X U.N.O. ALL AS3700 MASONRY CODE AND THE REFERENCED STANDARDS THEREIN TABLE BELOW IS TO BE CONSIDERED ONLY IF NO PLAN IS PROVIDED BY WELDS SHALL BE 6MM CFW SP CATEGORY U.N.O. ALL BUTT WELDS SHALL M.2. MINIMUM DURABILITY REQUIREMENTS. AN ENGINEER BE SP CATEGORY U.N.O. INSPECTION IS REQUIRED IN ACCORDANCE WITH AS/NZS 1554.1, ALL GP / SP WELDS SHALL BE 100% VISUALLY SCANNED. SF FILLET WELDS SHALL HAVE 10% VISUAL EXAMINATION U.N.O SP BUTT MAX SPACING OF ARTICULATION JOINTS TO AS 4773 (UNREINFORCED MASONRY) U.N.O WELDS SHALL HAVE 50% VISUAL EXAMINATION U.N.O. ALL GP WELDS SHALL DURABILITY CLASS SALT ATTACK HAVE 10% VISUAL EXAMINATION. OF WALL TIES AND 10mm JOINT SPACING (m) MORTAR CLASS LOCATION RESISTANCE GRADE OF CONSTRUCTION & BUILT IN SITE CLASS CPBW: DENOTES COMPLETE PENETRATION BUTT WELD. MASONRY UNITS SURFACE FINISH COMPONENTS < 4m HIGH 4m TO 8.5m CFW: DENOTES CONTINUOUS FILLET WELD. EXPANSION JOINTS STEELWORK IS TO BE THOROUGHLY CLEANED OF MILL SCALE TO CLASS 2.5 A & S 7.0000 6.0000 INTERIOR MASONRY GENERAL PURPOSE М3 R3 ONLY FINISH. APPLY 75UM OF AN APPROVED INORGANIC ZINC SILICATE PRIMER. EXTERNAL FACE FOR TOP COATS REFER TO ARCHITECTS DRAWINGS OR SPECIFICATION. 4.2000 6.0000 FINISH STEELWORK TO BE ENCASED IN CONCRETE, CONNECTIONS TO BE FIELD EXTERIOR MASONRY M. M-D WELDED AND CONTACT FACES IN FRICTION GRIP BOLTED CONNECTIONS GENERAL PURPOSE М3 R3 GREATER THAN 1 km EXTERNAL 5.5000 3.9000 SHALL NOT BE PAINTED. ALL EXPOSED EXTERIOR STEEL AND STEEL BUILT FROM COAST RENDERED/PAINTED INTO MASONRY SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH EXTERNAL FACE EXTERIOR MASONRY ALL CLEATS AND GUSSET PLATES SHALL BE 10MM THICK, UNLESS NOTED 5.0000 3.5000 FINISH **EXPOSURE** R4 М4 UP TO 1 km FROM H1, H2, H1-D, COAST ALL BOLTS SHALL BE M16 8.8/S UNLESS NOTED OTHERWISE. BOLT HOLES FXTFRNAI SHALL BE 2MM GREATER THAN SPECIFIED BOLT SIZE UNLESS NOTED 4.5000 3.2000 RENDERED / PAINTED M.3. ALL MASONRY BLOCKS SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 15MPA. S.10. BOLT DESIGNATIONS SHALL CONFORM TO THE FOLLOWING: RFFFR NOTF 2 P. E. E-D 4.0 U.N.O 3.0 U.N.O ALL LOAD-BEARING BRICKS SHALL HAVE A MINIMUM UNCONFINED LOCATIONS COMPRESSIVE STRENGTH OF 20MPA. NOTES: DESIGNATION AUST, STANDARD INSTALLATION METHOD CLAY BRICKS SHALL EXHIBIT A MAXIMUM 5 YEAR EXPANSION OF 1.0MM/M. THE BRICK SUPPLIER SHALL PROVIDE A RECENT TEST CERTIFICATE THE SITE CLASS REFERS TO THE SOIL CLASSIFICATION AS DEFINED IN AS 2870 46/9 AS 1111 SNUG TIGHT CONFIRMING THE EXPANSION. 8.8/S AS/NZS 1252 2. JOINTS ON CLASS F. F.-D & P. SITES, REFER TO ENGINEER FOR ADVICE SNUG TIGHT MORTAR SHALL BE CLASS M3 OR M4 IN ACCORDANCE WITH NOTE M2 ABOVE. REFER TO AS3700 FOR COMPLYING MIX PROPORTIONS. SAND SHALL 8.8/TB AS/NZS 1252 FULLY TENSIONED (SOME SLIP ALLOWED) BE CLEAN WELL GRADED AND FREE OF SILT AND CLAY. NO "BRIKIES LOAM" 3. IF 15mm JOINTS ARE TO BE USED, SPACINGS MAY BE RELAXED AS PER AS 4773 ALLOWED FULLY TENSIONED WITH NO SLIP. CONTACT GROUT FOR CORE FILLING SHALL BE STRENGTH GRADE S20. THE GROUT M.19. IN CAVITY/BRICK VENEER WALLS PROVIDE MEDIUM DUTY GALVANISED WALL 8.8/TF AS/NZS 1252 SURFACES TO BE FREE FROM APPLIED SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 10MM, A MAXIMUM SLUMP OF TIES AT 600 CENTRES VERTICALLY AND HORIZONTALLY AND AT 300 230MM +/-25MM AND A MINIMUM CEMENT CONTENT OF 300KG/M3 AVERAGE CENTRES ADJACENT TO OPENINGS. TIES TO BE EMBEDDED A MINIMUM OF 50MM INTO THE MORTAR JOINTS STAINLESS STEEL TIES SHALL ADDITIVES SHALL NOT BE ADDED TO THE GROUT OR MORTAR WITHOUT THE S.11. LOAD INDICATING WASHERS SHALL BE USED TO VERIFY TIGHTENING OF BE USED IN LOCATIONS LESS THAN 1KM FROM THE COAST BOLTS IN TF AND TB CONNECTIONS SPECIFIC PERMISSION OF THE ENGINEER. M.9. PROVIDE CLEANOUT BLOCKS AT THE BASE OF ALL REINFORCED CORES S.12. WASHERS SHALL BE INSTALLED UNDER BOTH BOLT HEAD AND NUT AT ALL **ROOF TRUSSES** SLOTTED BOLT HOLES LOCATIONS. M 10 ALL MORTAR DAGS AND PROTRUSIONS INTO THE BLOCK OR BRICK CORES RT.1. THE BASIS OF DESIGN OF THE PERFORMANCE ROOF TRUSSES SHALL BE S.13. CONCRETE ENCASED AND FIRE SPRAYED STEELWORK SHALL NOT BE SHALL BE REMOVED PRIOR TO THE PLACEMENT OF ANY CONCRETE LOOSE SAA LOADING CODE AS 1170 PARTS 0, 1, PART 2, SAA TIMBER STRUCTURES PAINTED MATERIAL AND DEBRIS SHALL ALSO BE REMOVED FROM THE MASONRY CODE AS 1720.1 AND COLD-FORMED STEEL STRUCTURES CODE AS/NZS S.14. CONCRETE ENCASED STEELWORK SHALL HAVE A MINIMUM OF 50MM OF M 11 FULLY BED SOLID UNITS FACE BED HOLLOW UNITS AND FULLY FILL COVER CONCRETE REINFORCED WITH W5 WIRE AT 150 CRS. OR FGW41 RT.2. DESIGN THE ROOF TRUSSES @ 600 CRS. MAX. FOR THE DESIGN WIND VERTICAL JOINTS NO RAKING OF MORTAR JOINTS IS PERMITTED FABRIC UNI ESS NOTED OTHERWISE SPEED AS SPECIFIED IN 2.0 DESIGN CRITERIA. S.15. THE POSITION AND DETAIL OF ANY SPLICES REQUIRED OTHER THAN THOSE M.12. GROUTING SHALL NOT COMMENCE UNTIL THE MORTAR JOINTS HAVE RT.3. IN ADDITION TO THE NOMINATED PERMANENT BRACING, PROVIDE ANY GAINED SUFFICIENT STRENGTH TO RESIST BLOWOUT AND CORES HAVE SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER ADDITIONAL PERMANENT BRACING REQUIRED FOR STRUCTURAL BEEN CLEANED OUT. S.16. FULL CONTACT BEARING SURFACES, WHERE SPECIFIED, SHALL COMPLY SUFFICIENCY OF THE TRUSS SYSTEM. CONSTRUCTION ISSUE SG 07/03/24 M.13. GROUT SHALL BE COMPACTED BY VIBRATOR OR BY RODDING WITH A ROD WITH CLAUSE 14.4.4.2 OF AS4100. RT.4. PROVIDE ANY TEMPORARY BRACING REQUIRED TO MAINTAIN THE NOT LESS THAN 24MM DIAMETER. BY: DATE: DESCRIPTION S.17. THE ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH 5MM STABILITY OF THE TRUSSES AT ALL STAGES OF ERECTION. M.14. ALL CORES SHALL BE FILLED WITH GROUT, UNLESS NOTED OTHERWISE. MINIMUM PLATES AND CONTINUOUS FILLET WELDS UNLESS NOTED CONSTRUCTION ISSUE RT.5. NOT MORE THAN 1 IN 3 BATTENS TO BE SPLICED ON ONE TRUSS. M.15. REINFORCEMENT SHALL BE PLACED ACCURATELY AND TIED SECURELY RT.6. THE TRUSS DESIGNER SHALL PROVIDE DETAILS OF ALL PLATES AND BEFORE PLACEMENT OF GROUT. S.18. CLADDING TRIMMING MEMBERS FOR VALLEYS, EDGES, MECHANICAL AND CLEATS TO BE ATTACHED TO STEELWORK TO SUPPORT ROOF TRUSSES HYDRAULIC PENETRATIONS ARE NOT NECESSARILY SHOWN, REFER PURLIN M.16. NO HOLES OR CHASES SHALL BE CUT INTO BLOCKWORK /BRICKWORK UNLESS NOTED OTHERWISE. MANUFACTURER FOR DETAILS. WITHOUT PRIOR APPROVAL OF THE ENGINEER. S.19. SUPPORT RODS FOR CEILINGS, SERVICES, ETC, WHICH ARE SUSPENDED RT.7. DEFLECTION OF TRUSSES TO BE LIMITED TO SPAN/600 UNDER LONG TERM RPEQ 18398 M.17. ALL WALL INTERSECTIONS SHALL BE OF BONDED CONSTRUCTION OR TIED FROM PURLINS SHALL BE CONNECTED TO PURLIN WEBS ONLY. NO HOLES DEAD LOAD. WITH MEDIUM DUTY TIES AT 400MM MAXIMUM CRS. SHALL BE DRILLED THROUGH PURLIN FLANGES RT.8. MINIMUM CAMBER IS TO BE 5MM. MAXIMUM DIFFERENTIAL CAMBER SNG ENGINEERS M.18. MASONRY ARTICULATION S.20. INTERNAL STEELWORK SHALL BE THOROUGHLY CLEANED TO CLASS 1 AND BETWEEN ADJACENT TRUSSES IS 6MM. M.18.1. THIS DESIGN ASSUMES THAT MASONRY ARTICULATION JOINTS WILL BE 9/696 SANDGATE ROAD COATED WITH ONE SHOP COAT OF HIGH BUILD ZINC PHOSPHATE PRIMER RT.9. PROVIDE CERTIFICATION FROM A STRUCTURAL ENGINEER. AS DEFINED IN INSTALLED TO AS 4773 UNLESS NOTED OTHERWISE. ANY MASONRY CLAYFIELD, QLD 4011 TO 75PM DFT. OR APPROVED EQUIVALENT PAINT SYSTEM. IN ACCORDANCE THE QUEENSLAND BUILDING BY-LAWS 1991. THAT THE ROOF TRUSSES AND ARTICULATION JOINTS SHALL BE POSITIONED IN ACCORDANCE WITH AS (07) 3262 9138 WITH AS2312, UNLESS NOTED OTHERWISE. PERMANENT BRACING REQUIRED FOR THE TRUSS SYSTEM ARE 4773 & AS 3700 SECTION 12.16.4 AND AS FOLLOWS; nfo@snaenaineers.com.au S.21. UNLESS NOTED OTHERWISE, EXTERNAL STEELWORK SHALL BE HOT DIP STRUCTURALLY SUFFICIENT. www.sngengineers.com.au M.18.1.1. MAXIMUM JOINT SPACING = 5.0M U.N.O. GALVANISED IN ACCORDANCE WITH AS4680. WITHIN 2.0M - 4.5M OF EXTERNAL CORNERS S.22. ALL BOLTS, WASHERS AND DRILLED IN ANCHORS SPECIFIED IN EXTERNAL M.18.1.3. CHANGES OF WALL HEIGHT & MASONRY WALL THICKNESS G HOOPER AREAS ARE TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS1214. M.18.1.4. JUNCTION OF DIFFERENT MASONRY MATERIALS LOT 111 GLENRAE DIP ROAD S.23. ALL SITE WELDS CONCEALED FROM ATMOSPHERIC CONDITIONS ARE TO BE WHERE OLD BRICKWORK MEETS NEW BRICKWORK GIENRAF M.18.1.5. THOROUGHLY CLEANED, PREPARED AND PAINTED WITH 2 COATS OF A QLD 4626 M.18.1.6. ABOVE JOINTS IN FOOTINGS & SLABS & SLIP JOINT LOCATIONS GOOD QUALITY ZINC RICH PAINT IN ACCORDANCE WITH AS2312. AM 20 DESIGN M.18.1.7. ABOVE JUNCTION OF STRIP FOOTINGS TO SLABS S.24. NON-DESTRUCTIVE WELD TESTING, WHERE SPECIFIED, SHALL BE CARRIED M 18 1 8 FOR MASONRY WALLS OVER 3.0M HIGH, REFER JOB NO: 900143 OUT BY SUITABLY QUALIFIED PERSONNEL IN ACCORDANCE WITH CLAUSE M.18.2. WHERE MASONRY ARTICULATION IS SHOWN BESIDE OPENINGS, THE 7.4 OF AS1554.1 USING APPROPRIATE RADIOGRAPHIC, ULTRASONIC, DATED: 28/11/23 JOINT IS TO CONTINUE BETWEEN THE WINDOW/DOOR FRAME & THE MAGNETIC PARTICLE OR DYE PENETRATION TECHNIQUES. THE RESULTS BRICKWORK TO THE FULL HEIGHT OF THE WALL. AT THESE LOCATIONS, SHALL BE PROMPTLY FORWARDED TO THE ENGINEER FOR REVIEW PRIOR LOT 111 GLENRAE DIP ROAD THE FRAMES ARE TO BE FIXED WITH FASTENERS THAT WILL ALLOW TO ERECTION OF THE STEELWORK. MOVEMENT OF THE JOINT. **GLENRAE** S.25. ALL SITE WELDS EXPOSED TO ATMOSPHERIC CONDITIONS ARE TO BE THOROUGHLY CLEANED, PREPARED AND PAINTED WITH AN INORGANIC: ZINC SILICATE COAT PAINTING SYSTEM (IZS2) WITH A MINIMUM DFT OF 75UM NOTES - 3 IN ACCORDANCE WITH AS2312 1:100 UNO 07/03/2024 SG REVISION SNG-3798 003

