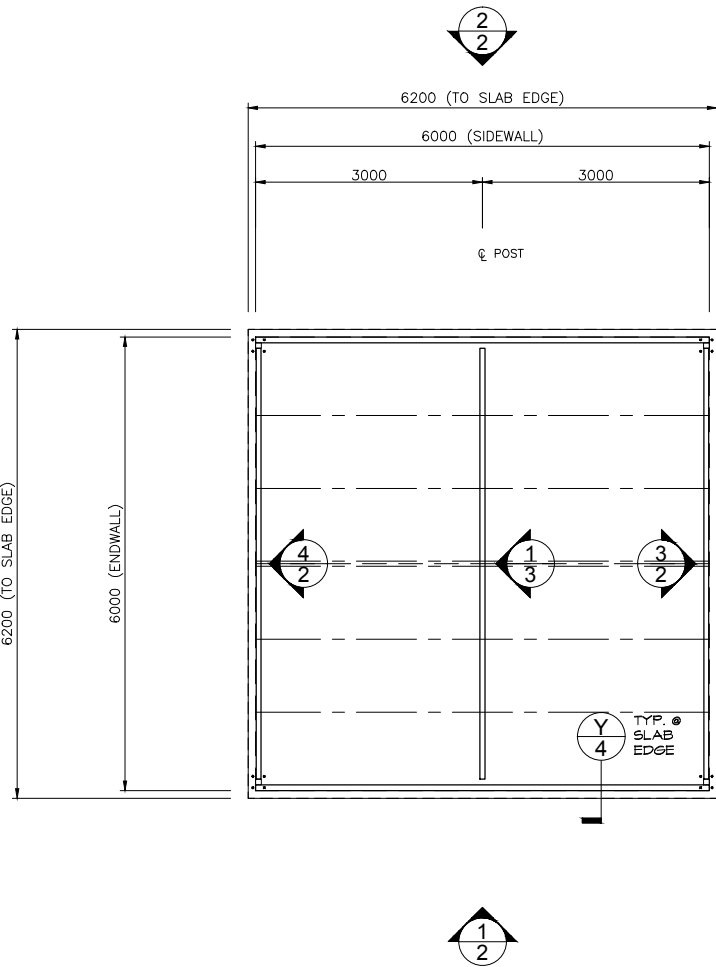


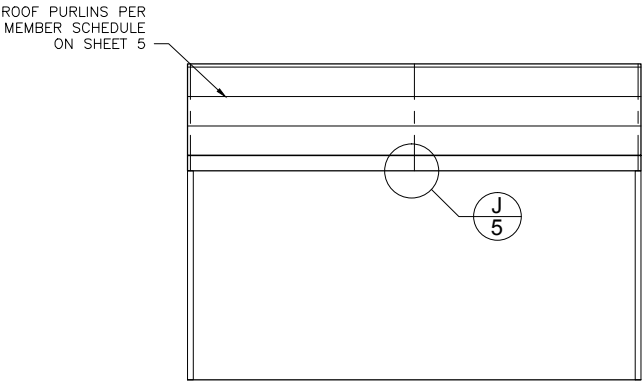
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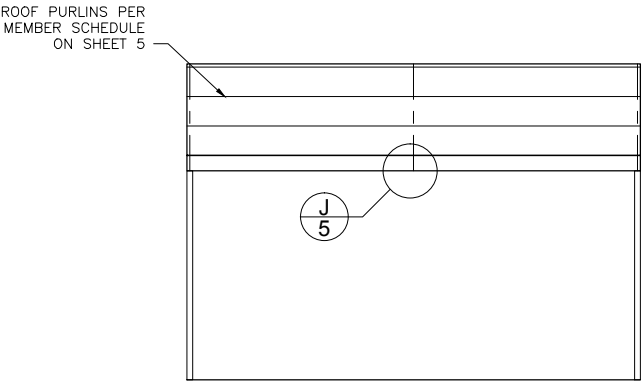
1 FLOOR PLAN AND FOUNDATION PLAN  
SCALE: 1:100

1 OF 5	SHEET	JOB NO. GOUL24055	DATE 16/3/2022	CHECKED TM	DRAWN FDS	PROPOSED FOR AT	 <b>SOUTHERN GARAGES AND BUILDINGS</b> PHONE 02 4822-3999 <b>SCOTT EVANS</b> 11 VICTORIA ST GOULBURN		 <b>NORTHERN CONSULTING</b> <b>engineers</b> Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56	Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ Registered Professional Engineer 2558980
											Signature  Date 16/3/2022 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

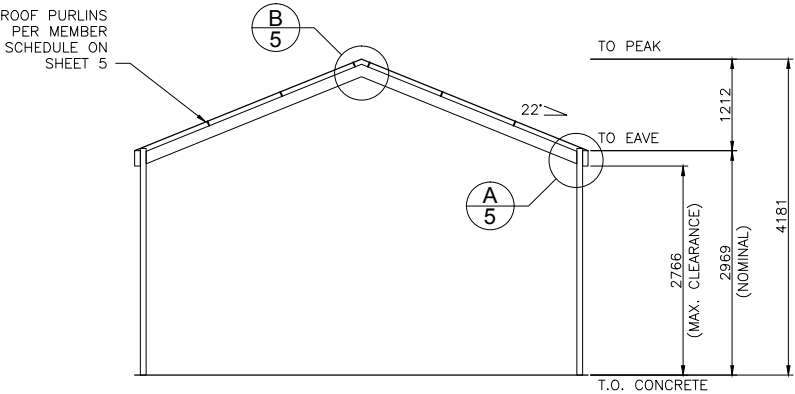
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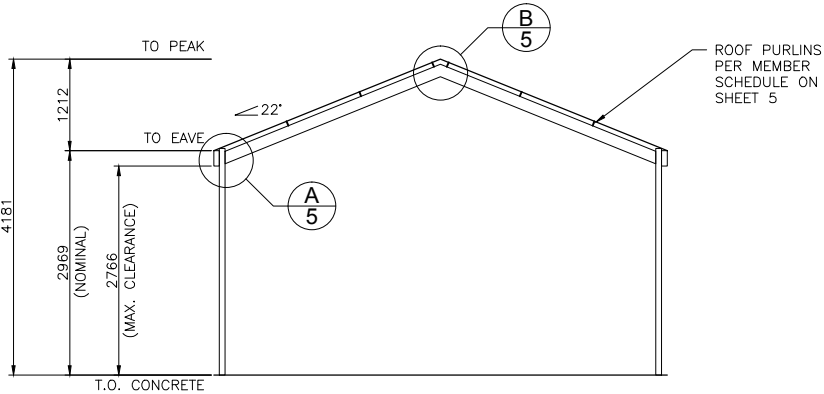
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2 SIDEWALL EXTERIOR ELEVATION  
SCALE: 1:100



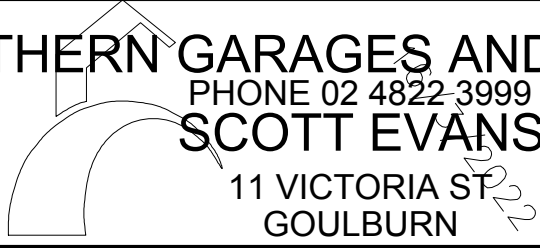


2  
2 SIDEWALL EXTERIOR ELEVATION  
SCALE: 1:100



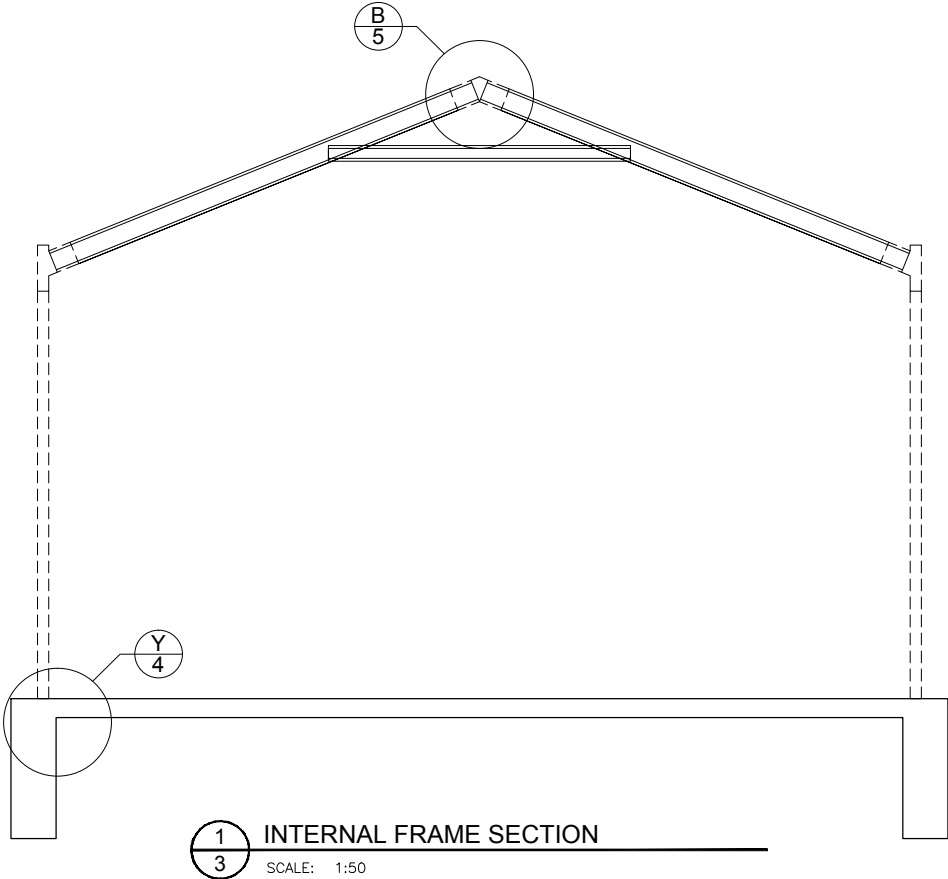
3  
2 ENDWALL INTERIOR ELEVATION  
SCALE: 1:100



4  
2 ENDWALL INTERIOR ELEVATION  
SCALE: 1:100

2 OF 5	SHEET	JOB NO. GOUL24055	DATE 16/3/2022	CHECKED TM	DRAWN FDS	PROPOSED	 <p><b>SOUTHERN GARAGES AND BUILDINGS</b> FOR <b>SCOTT EVANS</b> AT 11 VICTORIA ST GOULBURN</p>		 <p>Civil &amp; Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56</p>	<p>Registered Chartered Professional Engineer Registered Professional Engineer (Civil &amp; Structural) QLD Registered Certifying Engineer (Structural) N.T. Registered Engineer - (Civil) VIC Registered Engineer - (Civil) TAS</p>	<p>Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692 Regn. No. CC5648M</p>	Mr Timothy Roy Messer BE MIEAust RPEQ Registered Professional Engineer 2558980
						Signature						Date 16/3/2022

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(Refer to Sheet #4 for concrete specification).

3 OF 5	SHEET	JOB NO. GOUL24055	DATE 16/3/2022	CHECKED TM	DRAWN FDS	PROPOSED FOR AT	 <b>SOUTHERN GARAGES AND BUILDINGS</b> PHONE 02 4822-3999 <b>SCOTT EVANS</b> 11 VICTORIA ST GOULBURN	 <b>fairdinkum</b> SHEDS	 <b>NORTHERN CONSULTING</b> engineers Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56 Registered Chartered Professional Engineer Registered Professional Engineer (Civil & Structural) QLD Registered Certifying Engineer (Structural) N.T. Registered Engineer - (Civil) VIC Registered Engineer - (Civil) TAS Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ Registered Professional Engineer 2558980 Signature  Date 16/3/2022 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

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STRUCTURAL GENERAL NOTES

1.

**GOVERNING CODE** : BUILDING CODE OF AUSTRALIA (BCA), LOADING TO AS1170 - ALL SECTIONS.
2.

**DRAWING OWNERSHIP** :  
THESE DRAWINGS REMAIN THE PROPERTY OF AG&S BUILDING SYSTEMS PTY. LTD (AG&S). ENGINEERING SIGNATURE AND CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF AG&S. DRAWINGS ARE PROVIDED FOR THE DUAL PURPOSE OF OBTAINING BUILDING PERMITS AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM AG&S.
3.

**DRAWING SIGNATURE REQUIREMENTS** :  
THESE DRAWINGS ARE NOT VALID UNLESS SIGNED BY THE ENGINEER. THE ENGINEER ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DRAWINGS WITHOUT A SIGNATURE. EACH TITLE BLOCK CONTAINS A WATER MARK UNDER THE CUSTOMERS NAME CONTAINING THE DATE OF PRODUCTION OF THE DRAWINGS; THE DRAWINGS ARE TO BE SUBMITTED TO COUNCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.
4.

**CONTRACTOR RESPONSIBILITIES** :  
CERTIFIER AND CONTRACTOR TO CONFIRM [ON SITE] THAT THE WIND LOADINGS APPLIED TO THIS DESIGN ARE TRUE AND CORRECT FOR THE ADDRESS STATED IN THE TITLE BLOCK.  
CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND DIMENSIONS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF WORK.  
CONTRACTOR MUST NOT MAKE ANY DEVIATION FROM THE PROVIDED PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM ONE THE UNDERSIGNING ENGINEERS. THE ENGINEER / AG&S TAKE NO RESPONSIBILITY FOR CHANGES MADE WITHOUT WRITTEN APPROVAL.  
CONTRACTOR IS RESPONSIBLE FOR ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED DURING CONSTRUCTION.  
BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS SHOWN IS COMPLETED IN ACCORDANCE WITH THESE DRAWINGS.  
THE INDICATED DRAWING SCALES ARE APPROXIMATE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES.  
FOR FURTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.
5.

**ENGINEERING** :  
THE ENGINEER / AG&S ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT DURING CONSTRUCTION.  
THE UNDERSIGNING ENGINEERS HAVE REVIEWED THIS BUILDING FOR CONFORMITY ONLY TO THE STRUCTURAL DESIGN PORTIONS OF THE GOVERNING CODE. THE PROJECT MANAGER IS RESPONSIBLE FOR ADDRESSING ANY OTHER CODE REQUIREMENTS APPLICABLE TO THIS DEVELOPMENT.  
THESE DOCUMENTS ARE STAMPED ONLY AS TO THE COMPONENTS SUPPLIED BY AG&S. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY AG&S WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY AG&S SHALL GOVERN.
6.

**INSPECTIONS** :  
NO SPECIAL INSPECTIONS ARE REQUIRED BY THE GOVERNING CODE ON THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL BUILDING DEPARTMENT SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.
7.

**SOIL REQUIREMENTS** :  
SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPCITY VALUE INDICATED ON DRAWING SHEET 4 OCCURS AT 100mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION. REGARDLESS OF DETAIL Y ON SHEET 4 THE MINIMUM FOUNDATION DEPTH SHOULD BE 100MM INTO NATURAL GROUND OR BELOW FROST DEPTH SPECIFIED BY LOCAL COUNCIL.  
ROLLED OR COMPACTED FILL MAY BE USED UNDER SLAB, COMPACTED IN 150mm LAYERS TO A MAXIMUM DEPTH OF 900mm.  
CONCRETE FOUNDATION EMBEDMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE WALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.
8.

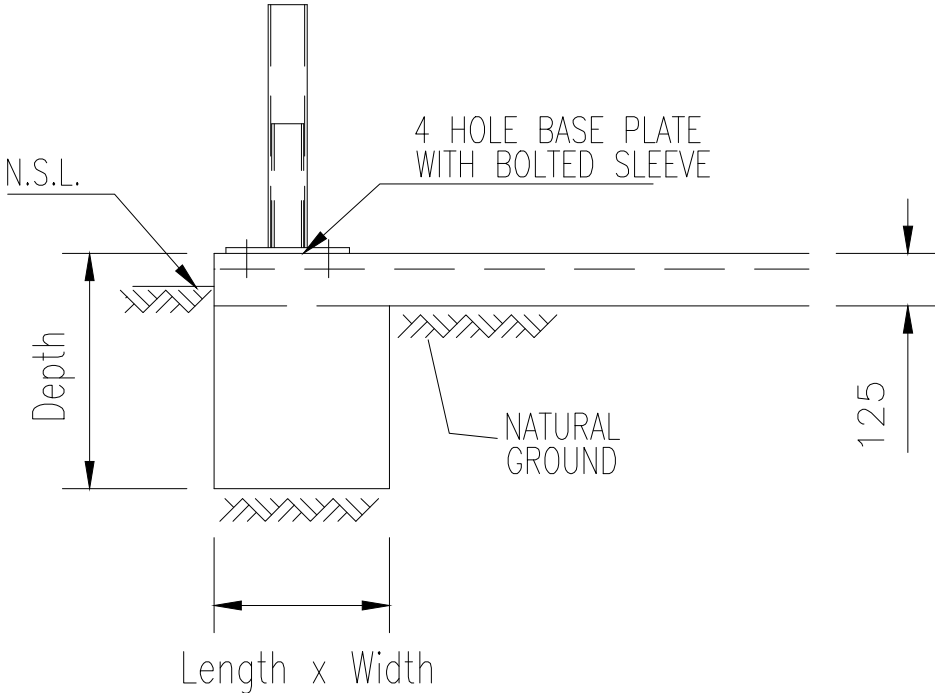
**CLASS 10a FOOTING DESIGNS:**  
THE FOUNDATION DOCUMENTED IS APPROPRIATE FOR CLASS 10a BUILDING DESIGNS ON 'M-D', 'H', 'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m/sq; AND THE MAXIMUM SLAB DIMENSION (LENGTH AND WIDTH) IS LESS THAN 12m.  
PLEASE BE AWARE THAT THE SLAB DESIGN FOR H & E CLASS SOILS IN THESE INSTANCES ARE DESIGNED TO EXPERIENCE SOME CRACKING. THIS CRACKING IS NOT CONSIDERED A STRUCTURAL FLAW OR DESIGN ISSUE, AND IS SIMPLY COSMETIC IN NATURE. IF THIS IS A CONCERN TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS WITH THE RELEVANT DISTRIBUTOR PRIOR TO THE POURING OF THE SLAB.  
FOR PAD ONLY DESIGNS BUILDING DIMENSION PREVAILS OVER SLAB DIMENSIONS.
9.

**CONCRETE REQUIREMENTS** :  
ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS2870 AND AS3600.  
CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPa FOR EXPOSURE A1 & B1, 25MPa FOR EXPOSURE A2 & B2 AND 32MPa FOR EXPOSURE C. CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 80mm +15mm.  
SLABS TO BE CURED FOR 7DAYS BY WATERING OR COVERING WITH A PLASTIC MEMERANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN HOLD DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF F72 REINFORCING MESH IS TO BE INSTALLED ON STANDARD SLABS WITH A MINIMUM 30MM COVER FROM CONCRETE SURFACE. CONCRETE REINFORCING TO CONFORM TO AS 1302, AS1303 & AS 1304. ALL REINFORCING COVER TO BE A MINIMUM OF 30mm.
10.

**STRUCTURAL STEEL REQUIREMENTS** :  
ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 550MPa, GAUGE > 1mm < 1.5mm fy = 500MPa, GAUGE >= 1.5mm fy = 450MPa).  
NO WELDING IS TO BE PERFORMED ON THIS BUILDING.  
ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS4600. ALL BOLT HOLE DIAMETERS TO STRAMIT GENERAL PUNCHINGS.

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa  
BASIC WIND SPEED: VR 57 m/s  
WIND REGION: Reg B  
TERRAIN CATEGORY: TCat 2  
SEISMIC ZONE: 4  
SOIL SAFE BEARING CAPACITY: 100 kPa  
IMPORTANCE LEVEL: 2



300 x 300 x 800  
length x width x depth (mm)

Y

LOCAL THICKENING DETAIL

SCALE:  
NO SCALE

OF

4  
5

SHEET

JOB NO.  
GOU124055

DATE  
16/3/2022

CHECKED  
TM

DRAWN  
FDS

PROPOSED  
FOR  
AT

SOUTHERN GARAGES AND BUILDINGS  
PHONE 02 4822-3999  
SCOTT EVANS  
11 VICTORIA ST  
GOULBURN



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Fax: 07 4725 5850  
Email: design@nceng.com.au  
ABN 341 008 173 56

Registered Chartered Professional Engineer  
Registered Professional Engineer (Civil & Structural) QLD  
Registered Certifying Engineer (Structural) N.T.  
Registered Engineer - (Civil) VIC  
Registered Engineer - (Civil) TAS

Regn. No. 2558980  
Regn. No. 9985  
Regn. No. 116373ES  
Regn. No. EC36692  
Regn. No. CC5648M

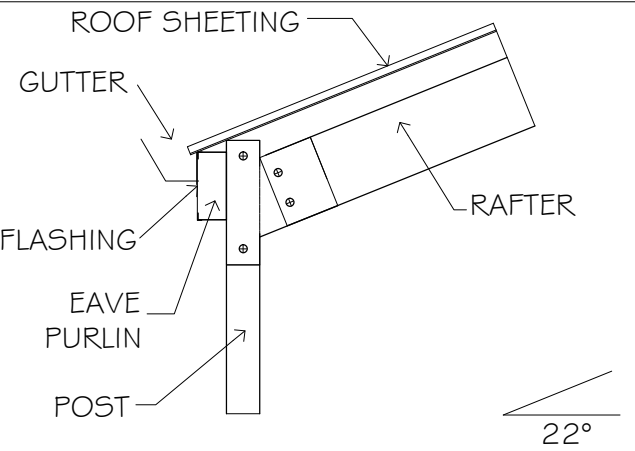
Mr Timothy Roy Messer BE MIEAust RPEQ  
Registered Professional Engineer 2558980

Signature *T. Messer*

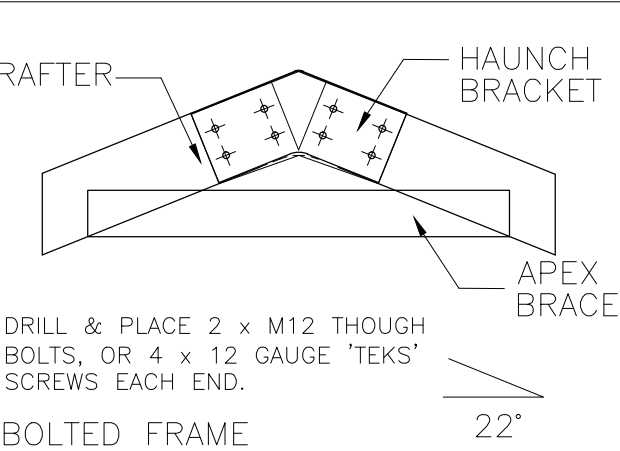
Date 16/3/2022

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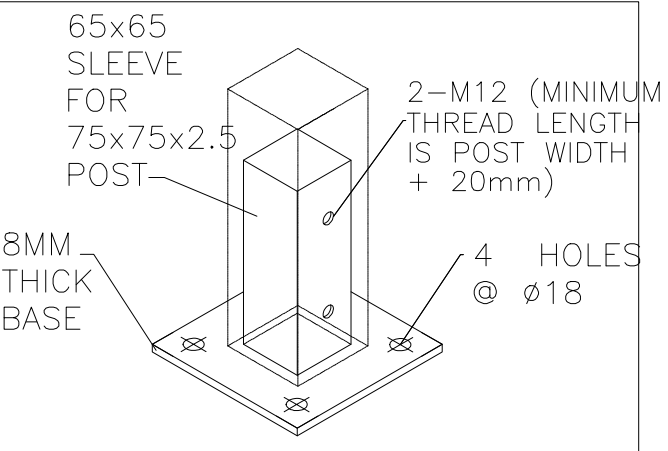
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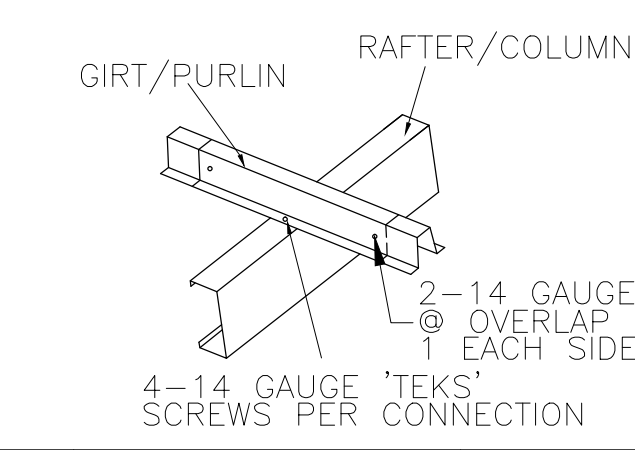
A HAUNCH CONNECTION DWG NO H1863NBG



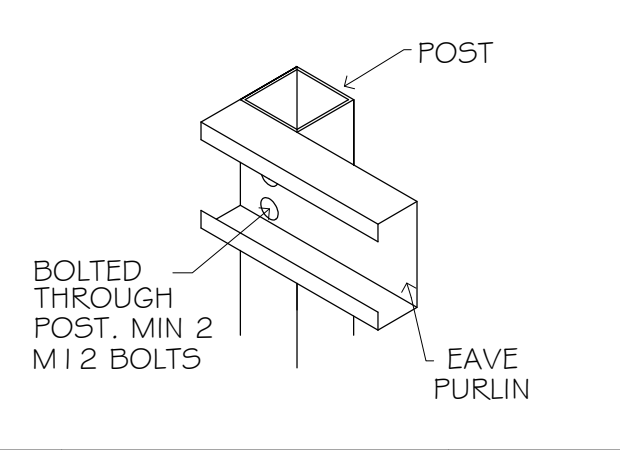
B APEX CONNECTION DWG NO H63BB



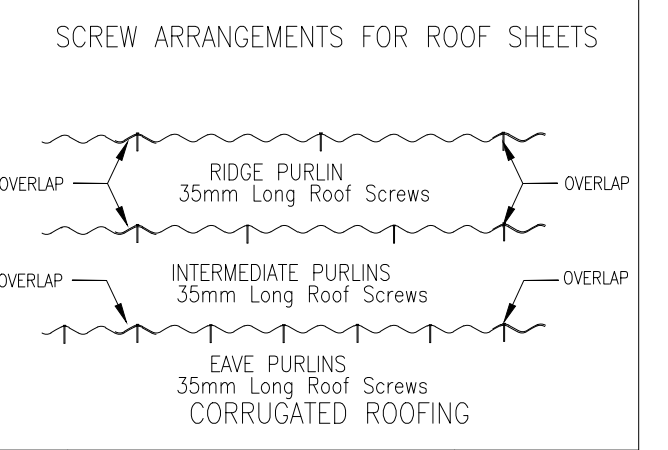
R BASE CONNECTION DETAIL DWG NO CBC18



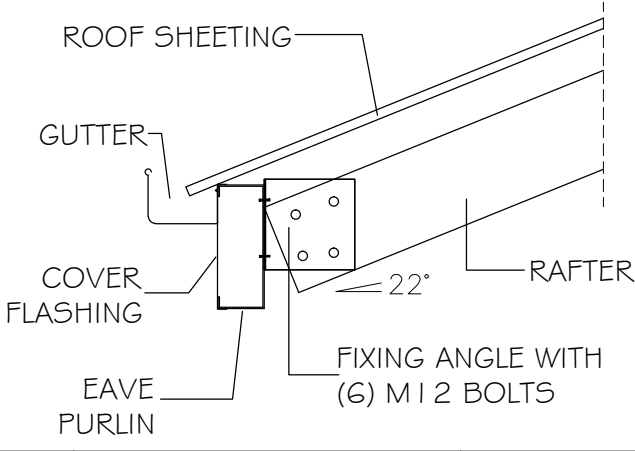
C ROOF PURLIN CONNECTION DWG NO CSCONG



D EAVE PURLIN CONNECTION DWG NO BOCEPB



G ROOF SHEETTING PROFILE DWG NO R0



J BEAM OVER DETAIL DWG NO BO152022B

MEMBER AND MATERIAL SCHEDULE

1	C.S. FRAME RAFTER	Single C15019
2	C.S. FRAME POST	Single Post 75x75x2.5 SHS 3.00m stock length
3	POST CUT LENGTH	3.0m
4	C.S. FRAME APEX BRACE	Single C10010
5	ANCHOR BOLTS (# PER DETS.)	Sleeve Anchor 16.0x110 G/Y
6	POST BOLTS	Hex 4.6 Gal M12x100
7	EAVE PURLIN	C20024 (27mm below post)
8	ROOF PURLIN	Tophat 64 x 1.0
9	ROOF PURLIN SPACING	1.039 m. (1.3m Max.)
10	ROOF CLADDING	Corrugated TCT 0.47, CB
11	ROOF CLADDING FASTENERS	12-14x35 H/Grip C/S CB
12	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16' Hex Drive)
13	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
14	ROOF COLOUR	COLORBOND
15	DOWNPIPE COLOUR	COLORBOND
16	GUTTER COLOUR	COLORBOND
17	BARGE COLOUR	COLORBOND

C.S. = CLEARSPAN

5 OF 5

SHEET  
JOB NO.  
DATE  
CHECKED  
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