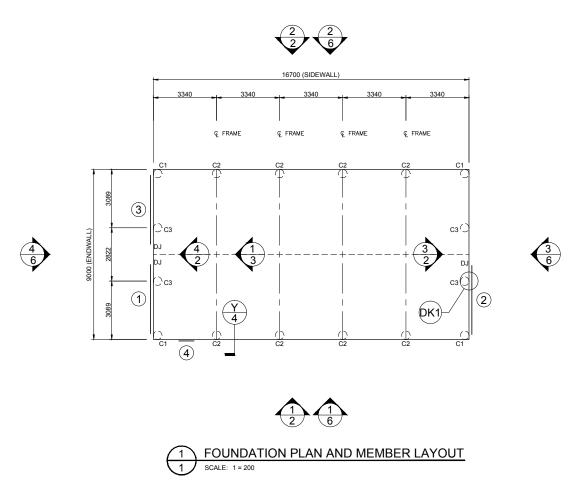
IF IN DOUBT, ASK.



Roof has been designed for Medium Weight Ceilings & Roofs Loading. Allowing for an Additional Roof Loading of 30.0kg/m^2. Builder to Confirm Additional Roof Loading Selected is Acceptable for the Design.

DJ - INDICATES DOOR JAMBS AT THESE LOCATIONS. REFER TO SHEET #4 ON THE DOOR SCHEDULE FOR SIZES

MEMBER LEGEND

ALL DIMENSIONS TO BE VERIFIED ON SITE.

DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.

C1	C20024
C2	2C20024
C3	C20019







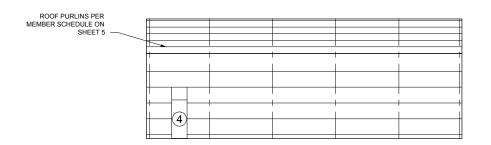
ered Chartered Professional Engineer ered Professional Engineer (Civil & Structural) QLD ered Certifying Engineer (Structural) N.T. ered Engineer - (Civil) VIC ered Engineer - (Civil) TAS

Civil & Structural Engineers
50 Punari Street
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Fax: 07 4725 5850 Si design@nceng.com.au ABN 341 008 173 56 Regn. No. 2558980 Fegn. No. 161373ES Regn. No. PE0002216 Regn. No. CC5648M

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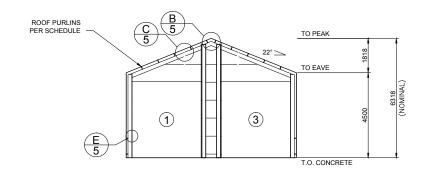
Mr Timothy Roy Messer BE MIEAust RPEQ

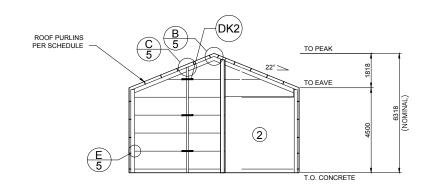


ROOF PURLINS PER MEMBER SCHEDULE ON SHEET 5 SIDEWALL GIRTS PER MEMBER SCHEDULE ON

SIDEWALL EXTERIOR ELEVATION







4 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 200

ENDWALL INTERIOR ELEVATION SCALE: 1 = 200

DIAGONAL X BRACING NOT REQUIRED IN THIS BUILDING.

CLADDING DIAPHRAGM SUFFICIENT. FLY BRACING IS INCLUDED TO BE PLACED ON EVERY SECOND PURLIN AND GIRT ON ENDWALL MULLIONS, INTERNAL COLUMNS AND INTERNAL RAFTERS.







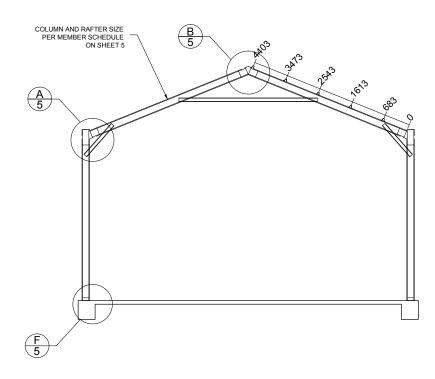
Mr Timothy Roy Messer BE MIEAust RPEQ Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850

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

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Refer to Sheet #4 for concrete specification.

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CRAIG GAULT 2022 FOR FDS TM 0 LOT 2 DP1079105 48 CURTIS DRIVE YOUNG





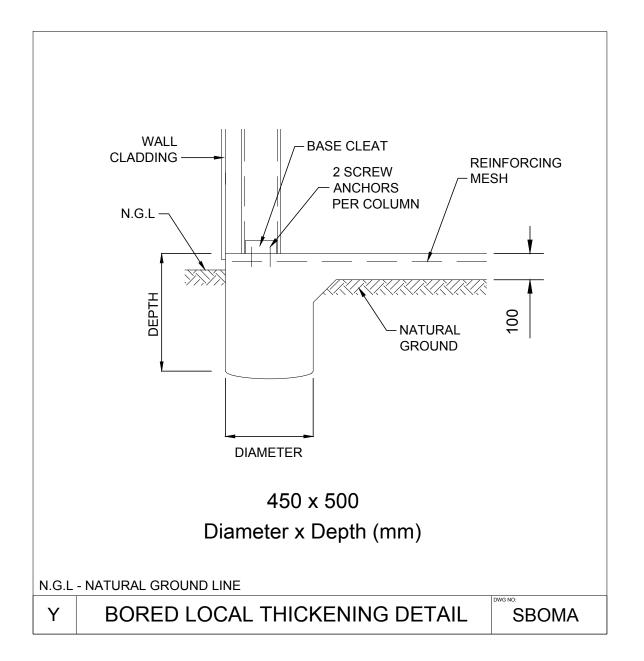
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- 1. GOVERNING CODE : NATIONAL CONSTRUCTION CODE (NCC), LOADING TO AS1170 ALL SECTIONS. BUILDING SUITABLE AS EITHER A PRIVATE CARACE CLASS 10A, OR A FARM SHED (CLASS 7 OR 8), UNLESS OTHERWISE SPECIFICALLY NOTED. FOR USE AS A FARM SHED, IT MUST MEET THE FOLLOWING REQUIREMENTS:

 BE LESS THAN 2000 SQM IN AFRA (INCLUSIVE OF ANY MEZZANINE FLOOR AREA).

 MUST BE LOCATED ON A FARM AND USED IN CONNECTION WITH FARMING PURPOSES BY PROPIE, WITH A MAXIMUM OF 1 FERSON PER 200 SQM OR 2 PERSONS MAXIMUM IN TOTAL WHICHEVER IS THE LESSER.

CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF FBHS. 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 FBHS.

NEAFROCCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM.

TRESS 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.

CONCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.

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 DETRAINING WRITTEN APPROVAL

PROMICANE THE INTERECTATION PROVIDEDS. THE ENVINEED OF DRAW TO DESPONDED THY PRO
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CURRENT TO THE WINDSTITUTE OF THE ENVINEED OF THE ENVINE FROM ONE THE UNDERSIGNING ENGINEERS. THE ENGINEER / FBHS 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 FUTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.

THE ENGINEER / FBHS 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 FORTIONS 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 FBHS. IT IS THE RESPONSIBILITY OF THE

THESE DOOMENTS ARE STANDED ONLY AS TO THE COMPONENTS SUPPLIED BY HEHS. IT'S THE RESENCIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY HEHS THIT OFTER PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY FEHS SHALL GOVERN. NO ALTERATIONS TO THIS STRUCTURE (INCLUDING REMOVAL OF CLADDING) ARE TO BE UNDERTAKEN WITHOUT THE CONSENT OF THE CERTIFYING ENGINEER.

OPENINGS SUCH AS WINDOWS AND DOORS NEED TO BE INSTALLED AS PER THE PRODUCT MANUFACTURER'S INFORMATION/DETAILS.

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.

SOIL REQUIREMENTS: :
SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 COCURS AT 170ST 100TH BELOW FINISH GRADE, OR AT FROST DEPTH SECCIFED 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 150rm LAYERS TO A MAXIMUM DEPTH OF 900rm. CONCRETE FOUNDATION EMBELMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE MALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.

CLASS 10a or Class 7 FOOTING DESIGNS:

CLASS 10a or Class 7 FOOTING DESIGNS:
THE FOUNDATION DOCUMENTED IS ALSO APPROPRIATE FOR CLASS 10a or CLASS 7 BUILDING DESIGNS ON 'M-D', 'H',
'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m SQUARE AND THE MAXIMUM SLAB DIMENSION (LENGTH
AND WIDTH) IS LESS THAN OR EQUAL TO 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 COMMENTED IN NATURE. IF THIS IS A CONCENT TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS
WITH THE RELEVANT DISTRIBUTOR FRIOR TO THE POURING OF THE SLAB.

CONCERTE REQUIREMENTS:

WITH THE RELEVANT DISTRIBUTOR PRIOR TO THE POURING OF THE SLAB.

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, IN ACCORDANCE WITH SECTION 4, AS3600. CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 80mm +-15mm. SLABS TO BE CURED FOR 7 DAYS BY WATERING OR COVERING WITH A PLASTIC MEMBRANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN HOLD DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF SL7Z REINFORCING WESH 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.

STRUCTURAL STEEL REQUIREMENTS:

10. STRUCTURAL STEEL REQUIREMENTS:

ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (CAUGE <= 1mm fy = 550Mpa, GAUGE > 1 mm < 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

- 11. FOOT TRAFFIC:
 FOR ERECTION AND MAINTENANCE PLEASE NOTE THE FOLLOWING DEFINED FOOT TRAFFIC ZONES:
 CORRUGATED: WALK ONLY WITHIN 200MM OF SCREW LINES, FEET SPREAD OVER AT LEAST TWO RIBS.
 MONOCLAD: WALK ONLY IN PANS, OR ON RIBS AT SCREW LINES.

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa

BASIC WIND SPEED: VR 45 m/s

SITE WIND SPEED: VsitB 41.9 m/s

WIND REGION: Reg A

TOPOGRAPHY FACTOR, Mt: 1.07

SHIELDING FACTOR, Ms: 1

MAX GROUND SNOW LOAD: N/A

MAX ROOF SNOW LOAD: N/A

SITE ALTITUDE: N/A

TERRAIN CATEGORY: TCat 2.5

SOIL SAFE BEARING CAPACITY: 100 kPa

RETURN PERIOD: 1:500 LIMITING CPL 1: -0.5 LIMITING CPI 2: 0.5 IMPORTANCE LEVEL: 2

DETAIL KEYS

(DK1) ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)

(DK2) FLYBRACING PER DETAIL L/5

(DK3) X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

 $(\!DK4\!)$ double x-bracing in roof above (see detail M/5)

SCHEDULE OF OPENINGS

DOOR	OPENING	SIZE MAX	OI LIVIIVO	HEADER	OPENING	WIND
DOOK	WIDTH	HEIGHT	TYPE	GIRT	JAMBS	RATED
1	3650	4030*	4.30H X 3.75 CB PLANETARY GEAR NOVATAUR 400MMER@MER	SINGLE	C25024P	NO
2	3650	4030*	PLANETARY GEAR NOVATAUR	SINGLE	C25024P	NO
3	3650	4030*	PLANETARY GEAR NOVATAUR	SINGLE	C25024P	NO
4	820	2040	EXTERNAL PA DOOR 180 DEG	SINGLE		YES

* ROLLER DOOR OPENING HEIGHT DEPENDENT ON FINAL BUILD LOCATION

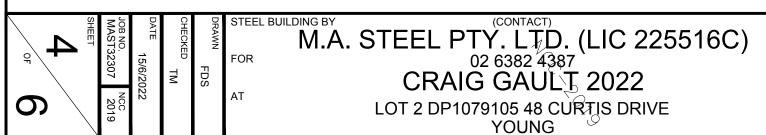
DOOR WARNINGS: END ROLLER DOOR IN BAY 3 OF LEFT WALL MAY BE TOO BIG TO FIT IN BAY. END ROLLER DOOR IN BAY 3 OF LEFT WALL MAY BE TOO BIG FOR JAMBS, PLEASE

OF THE OPERIOR OF THE UNDERLING.

END ROLLER DOOR IN BAY 1 OF LEFT WALL MAY BE TOO BIG TO FIT IN BAY.

END ROLLER DOOR IN BAY 1 OF LEFT WALL MAY BE TOO BIG FOR JAMBS. PLEASI

CHECK JAMBS BEFORF ORDERING.







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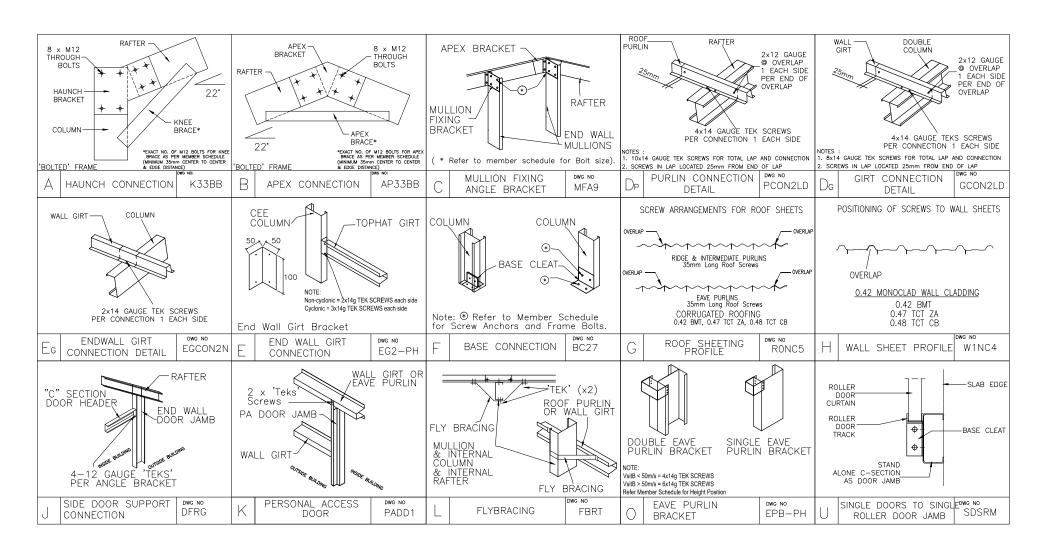
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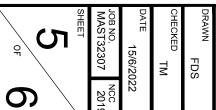
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MEMBER AND MATERIAL SCHEDULE

1	END WALL RAFTER	Single C20019
2	C.S. FRAME RAFTER	Double C20019
3	END FRAME COLUMN (C1)	Single C20024
4	C.S. FRAME COLUMN (C2)	Double C20024
5	MULLION (C3)	Single C20019
6	C.S. FRAME KNEE BRACE	Double C10010 @ 1.29 LONG 4 bolts each end
7	KNEE BRACE HEIGHT UP COLUMN	3.80m
8	KNEE BRACE LENGTH UP RAFTER	0.73m
9	C.S. FRAME APEX BRACE	Double C10010 @ 3.67 LONG 2 bolts each end
10	APEX POSITION FROM RAFTER END	1.94m
11	ANCHOR BOLTS (# PER DETS.)	Screw Anchor 16mm x 100 Galv
12	EAVE PURLIN	C10010 (Eave Purlin Bracket 36mm down from top of column)
13	TYP. ROOF PURLIN SIZE	Tophat 64 x 1.0
14	MAIN BLDG. PURLIN SPACING	0.930 m. (5 rows) (Max Allow. 1.000m)
15	MAIN BLDG. PURLIN LENGTH	3.67 m. (0.33m Overlap)
16	TYP. SIDEWALL GIRT SIZE	Tophat 64 x 1.0
17	MAIN BLDG. SIDEWALL GIRT SPACING	0.839 m. (5 rows) (Max Allow. 1.000m)
18	MAIN BLDG. SIDEWALL GIRT LENGTH	3.67 m. (0.33m Overlap)
19	TYP. ENDWALL GIRT SIZE	Tophat 64 x 1.0
20	MAIN BLDG. ENDWALL GIRT SPACING	0.950 m. (6 rows) (Max Allow. 0.953m)
21	MAIN BLDG. ENDWALL GIRT LENGTH	2.92 m. (0.1m Overlap)
22	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16' Hex Drive)
23	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
24	X-BRACING STRAP AND FASTENERS	None required for this building. Cladding Diaphragm Sufficient.
25	WALL COLOUR	BASALT
26	ROOF COLOUR	MONUMENT
27	ROLLER DOOR COLOUR	MONUMENT
28	P.A. DOOR COLOUR	BASALT
29	DOWNPIPE COLOUR	BASALT
30	GUTTER COLOUR	MONUMENT
31	CORNER FLASHING COLOUR	BASALT
32	BARGE FLASHING COLOUR	MONUMENT
33	OPENING FLASHING COLOUR	BASALT
34	OPEN BAY HEADER HEIGHT	0.35

"C.S." = CLEARSPAN "L." = LEFT "R." = RIGHT



FOR

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> LOT 2 DP1079105 48 CURTIS DRIVE YOUNG





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Signature Email: design@nceng.com.au ABN 341 008 173 56

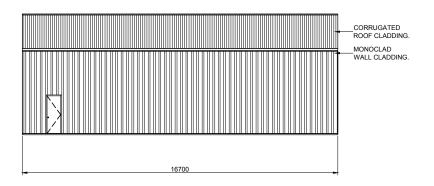
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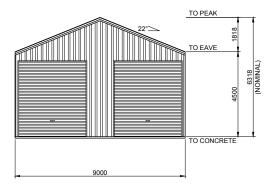
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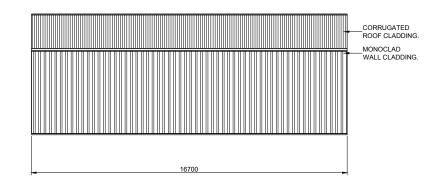
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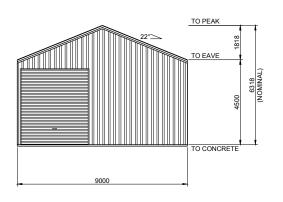














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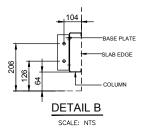
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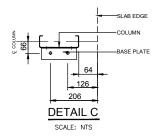
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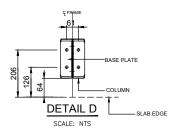
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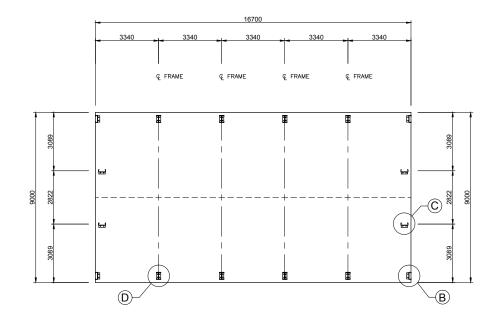
Mr Timothy Roy Messer BE MIEAust RPEQ













IF YOU HAVE A ROLLER DOOR IN THE GABLE END OF YOUR SHED, CONTACT YOUR DISTRIBUTOR TO SEE IF MULLION NEEDS TO BE ROTATED FOR USE AS A DOOR JAMB.

NOT PART OF COUNCIL APPLICATION DOCUMENTATION

15/6/2022

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BOLT LAYOUT PLAN