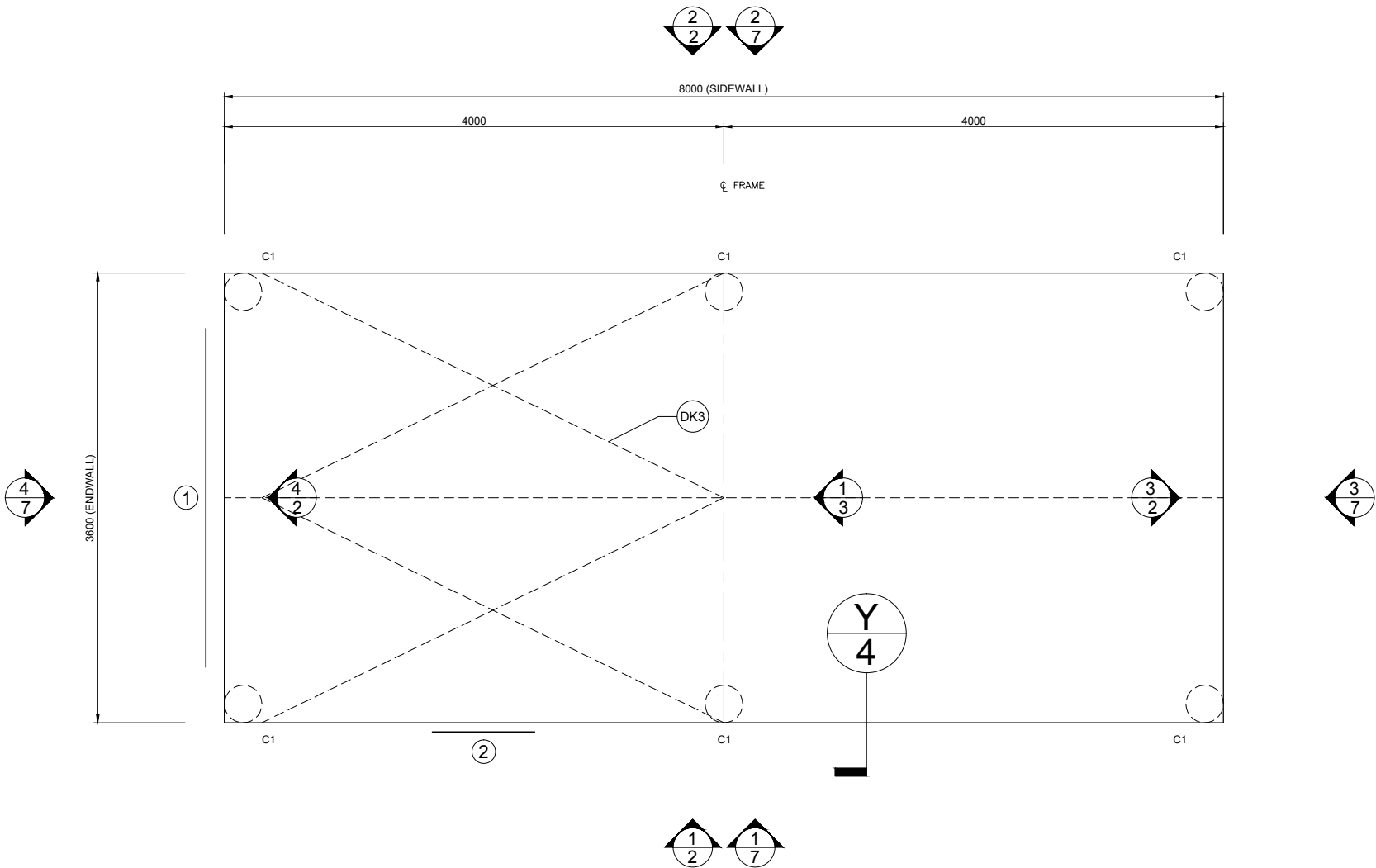


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IF IN DOUBT, ASK.



1 FOUNDATION PLAN AND MEMBER LAYOUT
1 SCALE: 1 = 50

ROOF STRAP BRACING TO BE CONNECTED TO THE PURLIN CLOSEST TO THE LINE OF THE END WALL MULLION
ROOF STRAP BRACING CAN BE PLACED FROM EITHER END OF THE BUILDING PROVIDING THE STRAP PATTERN REMAINS AS PER PLANS
DJ - INDICATES DOOR JAMBS AT THESE LOCATIONS. REFER TO SHEET #4 ON THE DOOR SCHEDULE FOR SIZES

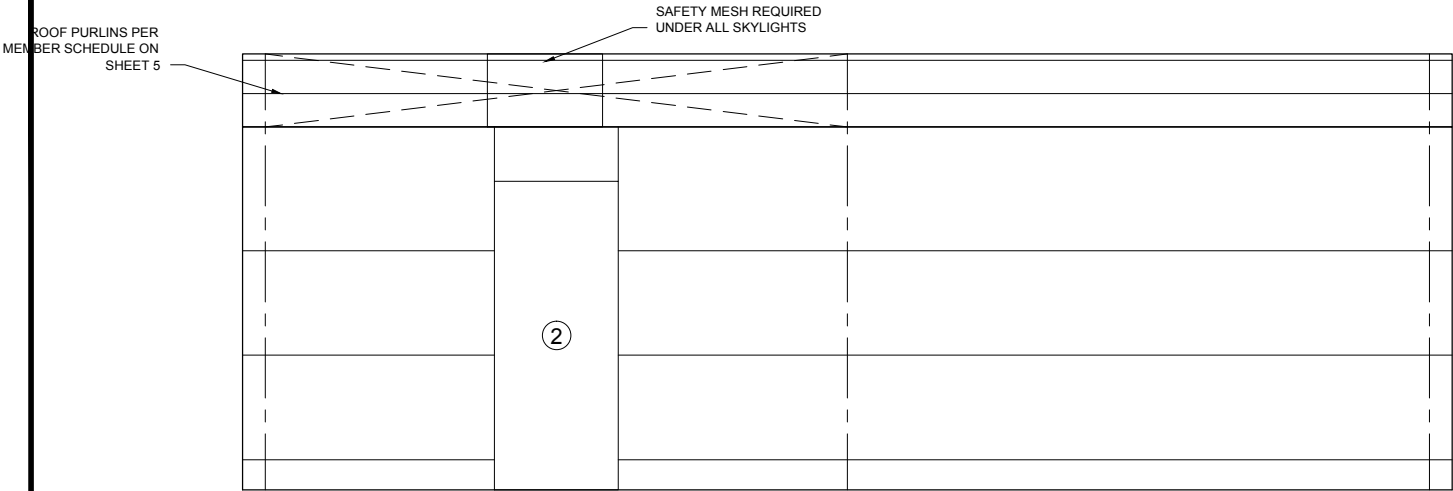
MEMBER LEGEND

| | |
|----|--------|
| C1 | C15012 |
|----|--------|

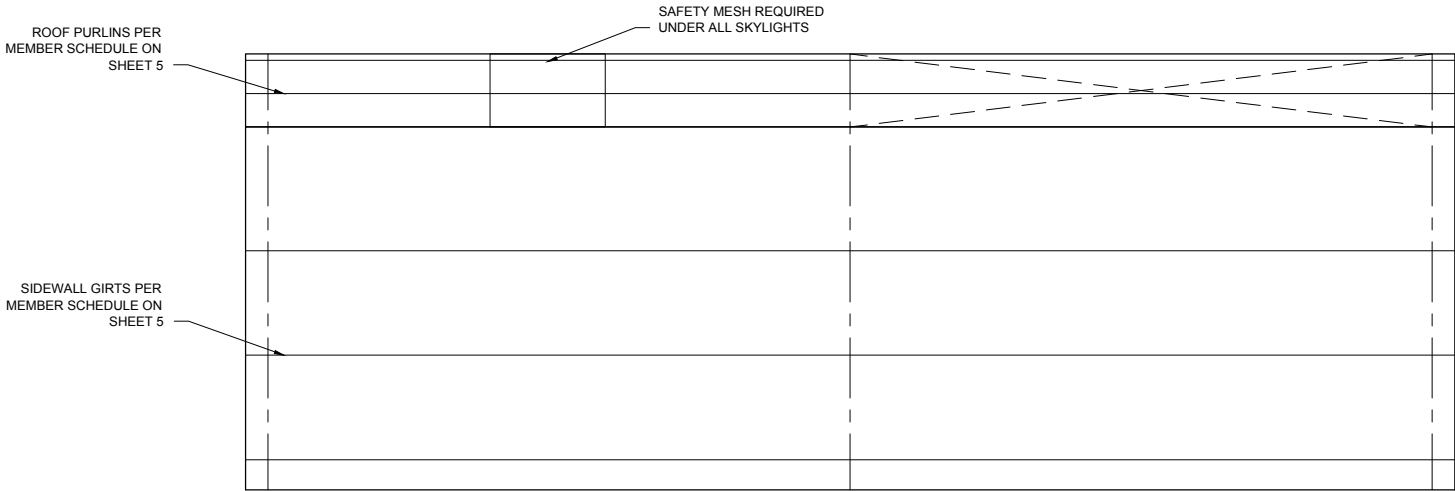
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|--------------|-------|----------------------|-------------------|---------------|--------------|---|--|--|---|---|--|
| 1 OF 8 | SHEET | JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) (CONTACT) 02 6382 4387 DON & KERRY MCLEOD 9B SMITH STREET HARDEN | | | 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. PE0002216 Regn. No. CC5648M | Mr Timothy Roy Messer BE MIEAust RPEQ Signature Date 17/5/2022 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register |
| | | NCC 2019 | | | | | | | | | |

DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY. ALL DIMENSIONS TO BE VERIFIED ON SITE.

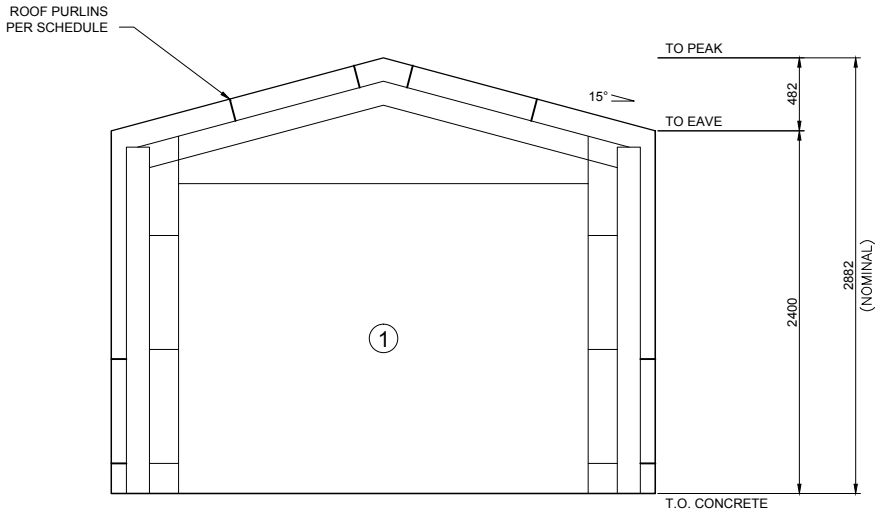
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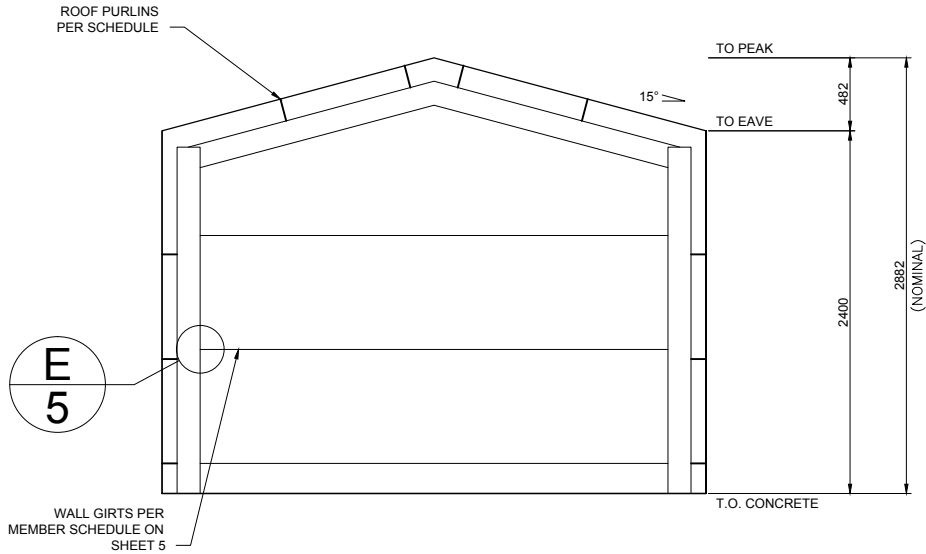
1
2
SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 50



2
2
SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 50



4
2
ENDWALL INTERIOR ELEVATION
SCALE: 1 = 50

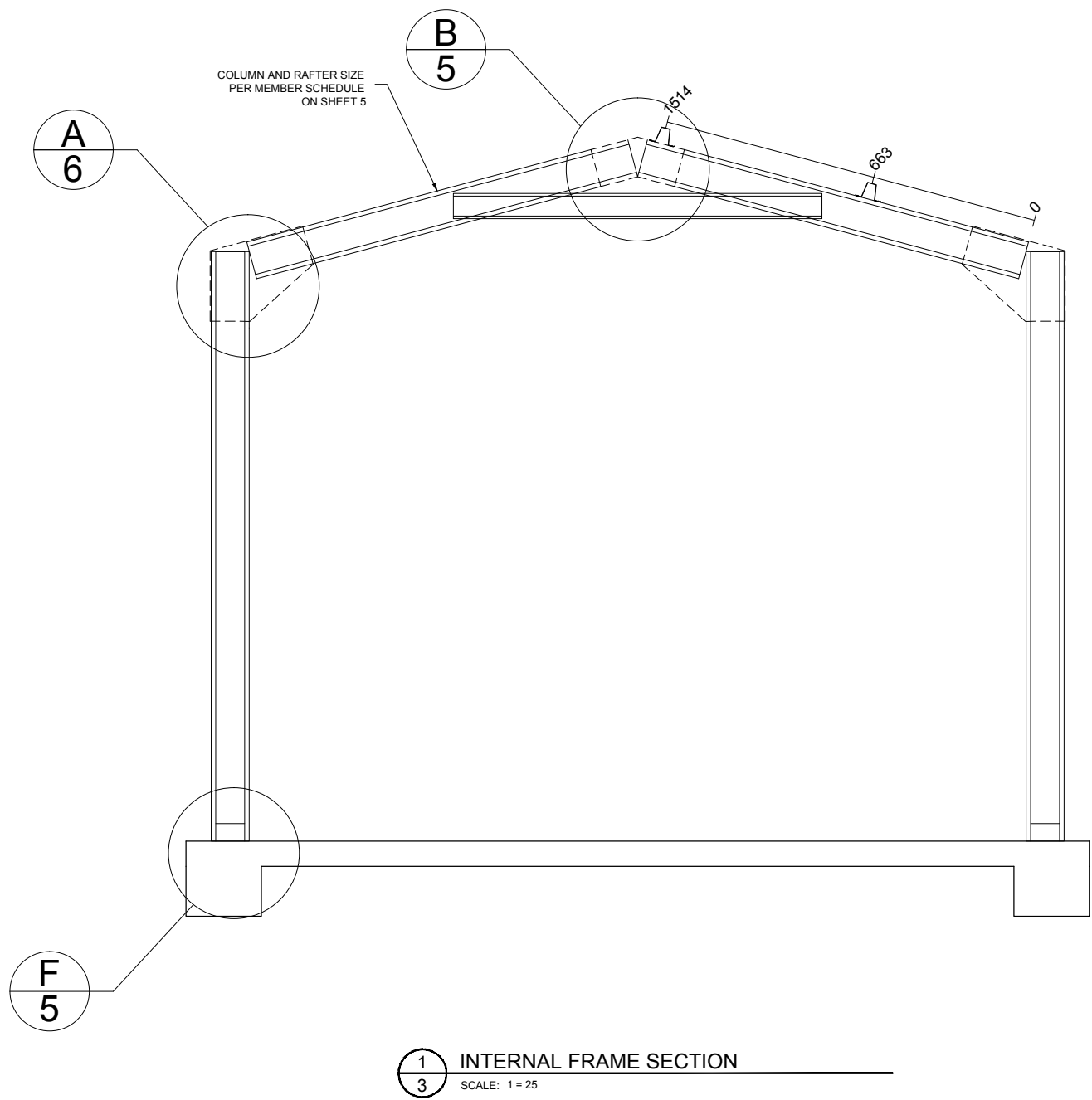


3
2
ENDWALL INTERIOR ELEVATION
SCALE: 1 = 50





X BRACING IS REQUIRED IN 2 BAY(S) (VARIOUS ROOF AND WALL LOCATIONS).
SEE LAYOUT OR PLANS FOR PLACEMENT.

| | | | | | | | | | | | |
|--------------|-------|----------------------|-------------------|---------------|--------------|---|--|--|---|---|--|
| 2 OF 8 | SHEET | JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) (CONTACT) 02 6382 4387 DON & KERRY MCLEOD 9B SMITH STREET HARDEN | | | 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. PE0002216 Regn. No. CC5648M | Mr Timothy Roy Messer BE MIEAust RPEQ Signature Date 17/5/2022 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register |
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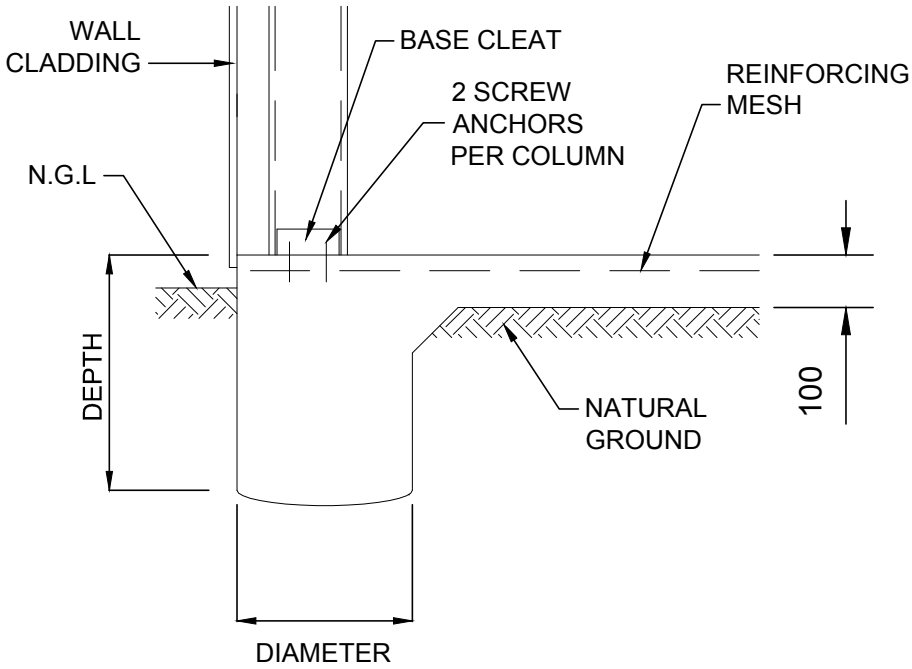
Refer to Sheet #4 for concrete specification.

| | | | | | | | | | | | |
|--------------|-------|----------------------|-------------------|---------------|--------------|---|---|---|--|---|--|
| 3 OF 8 | SHEET | JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) (CONTACT) 02 6382 4387 DON & KERRY MCLEOD 9B SMITH STREET HARDEN |  |  |  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. PE0002216 Regn. No. CC5648M | Mr Timothy Roy Messer BE MIEAust RPEQ Signature  Date 17/5/2022 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** : NATIONAL CONSTRUCTION CODE (NCC), LOADING TO AS1170 - ALL SECTIONS. BUILDING SUITABLE AS EITHER A PRIVATE GARAGE 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 AREA (INCLUSIVE OF ANY MEZZANINE FLOOR AREA).
- MUST BE LOCATED ON A FARM AND USED IN CONNECTION WITH FARMING PURPOSES.
- BUILDING IS NOT TO BE OCCUPIED FREQUENTLY NOR FOR EXTENDED PERIODS BY PEOPLE, WITH A MAXIMUM OF 1 PERSON PER 200 SQM OR 2 PERSONS MAXIMUM IN TOTAL WHICHEVER IS THE LESSER.
2. **DRAWING OWNERSHIP** : THESE DRAWINGS REMAIN THE PROPERTY OF FBHS (AUST) PTY LIMITED. ENGINEERING SIGNATURE AND 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.
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 / 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 FURTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.
5. **ENGINEERING** : 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 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 FBHS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY FBHS WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY FBHS 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.
7. **SOIL REQUIREMENTS** : SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY 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 V 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 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 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.
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, 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 SL72 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 FINISHES.
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.



N.G.L - NATURAL GROUND LINE

| | | |
|---|-------------------------------|---------------|
| Y | BORED LOCAL THICKENING DETAIL | DWG NO. SBOMA |
|---|-------------------------------|---------------|

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa
BASIC WIND SPEED: VR 45 m/s
SITE WIND SPEED: VsiB 32.5 m/s
WIND REGION: Reg A
TOPOGRAPHY FACTOR, Mt: 1
SHIELDING FACTOR, Ms: 0.83
MAX GROUND SNOW LOAD: N/A
MAX ROOF SNOW LOAD: N/A
SITE ALTITUDE: N/A
TERRAIN CATEGORY: TCat 2.49
SOIL SAFE BEARING CAPACITY: 100 kPa
RETURN PERIOD: 1:500
LIMITING CPI 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 WIDTH | SIZE MAX HEIGHT | OPENING TYPE | HEADER GIRT | OPENING JAMBS | WIND RATED |
|------|---------------|-----------------|--------------------------------|-------------|---------------|------------|
| ① | 2710 | 2050* | 2.20H X 2.77 CB *SERIES A # | SINGLE | C15012P | NO |
| ② | 820 | 2040 | EXTERNAL PA DOOR 180 DEG | SINGLE | | YES |

NOTES: 1) SEE SHEET 5 FOR DOOR OPENING FRAMING INFORMATION.
2) ALL DOOR SCHEDULE MEASUREMENTS ARE ACTUAL DOOR/WINDOW SIZE NOT OPENING SIZE.

* ROLLER DOOR OPENING HEIGHT DEPENDENT ON FINAL BUILD LOCATION.

4
OF
8

| | | | | |
|-------|----------------------|-------------------|---------------|--------------|
| SHEET | JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS |
| | NCC 2019 | | | |

STEEL BUILDING BY (CONTACT)
M.A. STEEL PTY. LTD. (LIC 225516C)
02 6382 4387
DON & KERRY MCLEOD
9B SMITH STREET
HARDEN

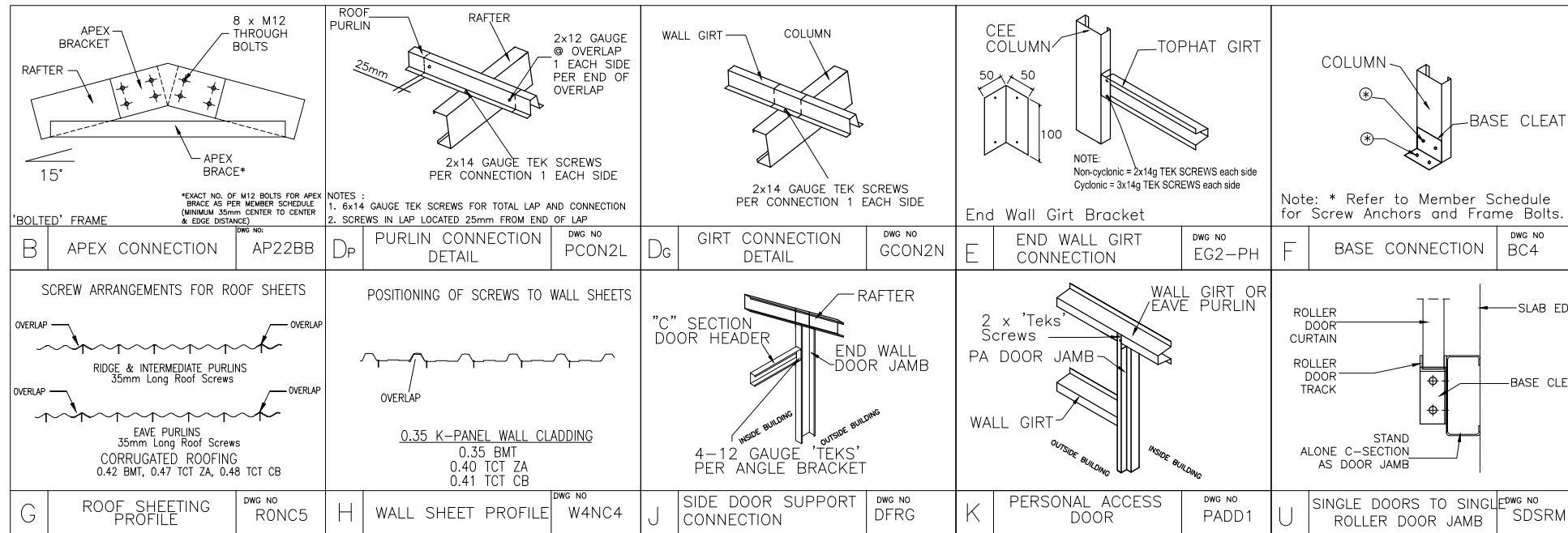


NORTHERN CONSULTING engineers
Civil & Structural Engineers
50 Punari Street
Currajong, Qld 4812
Fax: 07 4725 5850
Email: design@nceng.com.au
ABN 341 008 173 56

| | |
|---|---------------------|
| Registered Chartered Professional Engineer | Regn. No. 2558980 |
| Registered Professional Engineer (Civil & Structural) QLD | Regn. No. 9985 |
| Registered Certifying Engineer (Structural) N.T. | Regn. No. 116373ES |
| Registered Engineer - (Civil) VIC | Regn. No. PE0002216 |
| Registered Engineer - (Civil) TAS | Regn. No. CC5648M |

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature *T. Messer*
Date17/5/2022.....
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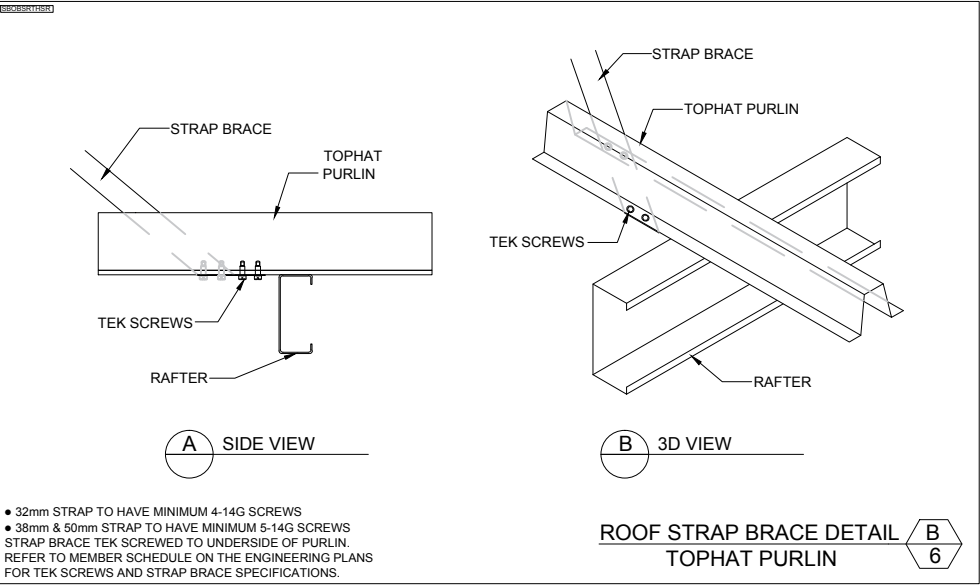
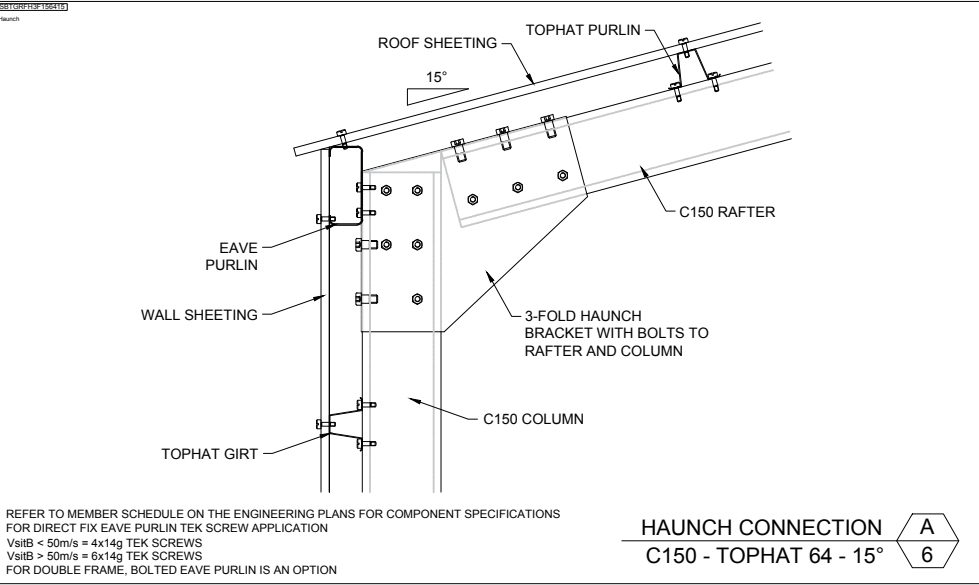


MEMBER AND MATERIAL SCHEDULE

| | | |
|----|----------------------------------|---|
| 1 | END WALL RAFTER | Single C15012 |
| 2 | C.S. FRAME RAFTER | Single C15012 |
| 3 | END FRAME COLUMN (C1) | Single C15012 |
| 4 | C.S. FRAME COLUMN (C1) | Single C15012 |
| 5 | C.S. FRAME APEX BRACE | Single C10010 @ 1.47 LONG 2 bolts each end |
| 6 | APEX POSITION FROM RAFTER END | 0.73m |
| 7 | ANCHOR BOLTS (# PER DETS.) | Screw Anchor 12mm x 100 Galv |
| 8 | EAVE PURLIN | C15012 (Eave Purlin 49mm above top of column) |
| 9 | TYP. ROOF PURLIN SIZE | Tophat 64 x 1.0 |
| 10 | MAIN BLDG. PURLIN SPACING | 0.851 m. (2 rows) (Max Allow. 0.899m) |
| 11 | MAIN BLDG. PURLIN LENGTH | 4.2 m. (0.2m Overlap) |
| 12 | TYP. SIDEWALL GIRT SIZE | Tophat 64 x 1.0 |
| 13 | MAIN BLDG. SIDEWALL GIRT SPACING | 0.691 m. (3 rows) (Max Allow. 1.000m) |
| 14 | MAIN BLDG. SIDEWALL GIRT LENGTH | 4.1 m. (0.1m Overlap) |
| 15 | TYP. ENDWALL GIRT SIZE | Tophat 64 x 1.0 |
| 16 | MAIN BLDG. ENDWALL GIRT SPACING | 0.754 m. (3 rows) (Max Allow. 1.000m) |
| 17 | MAIN BLDG. ENDWALL GIRT LENGTH | 3.17 m. (0m Overlap) |
| 18 | FRAME SCREW FASTENERS | 14-13x22 Hex C/S (SP HD 5/16" Hex Drive) |
| 19 | FRAME BOLT FASTENERS | Purlin Assy M12x30 Z/P |
| 20 | X-BRACING STRAP AND FASTENERS | 32 x 1.2mm Strap with 4 x 14g Tek Screws Each End |
| 21 | WALL COLOUR | PALE_EUCALYPT |
| 22 | ROOF COLOUR | MANGROVE |
| 23 | ROLLER DOOR COLOUR | PALE_EUCALYPT |
| 24 | P.A. DOOR COLOUR | PALE_EUCALYPT |
| 25 | DOWNPIPE COLOUR | PALE_EUCALYPT |
| 26 | GUTTER COLOUR | MANGROVE |
| 27 | CORNER FLASHING COLOUR | PALE_EUCALYPT |
| 28 | BARGE FLASHING COLOUR | MANGROVE |
| 29 | OPENING FLASHING COLOUR | PALE_EUCALYPT |
| 30 | OPEN BAY HEADER HEIGHT | 0.35 |

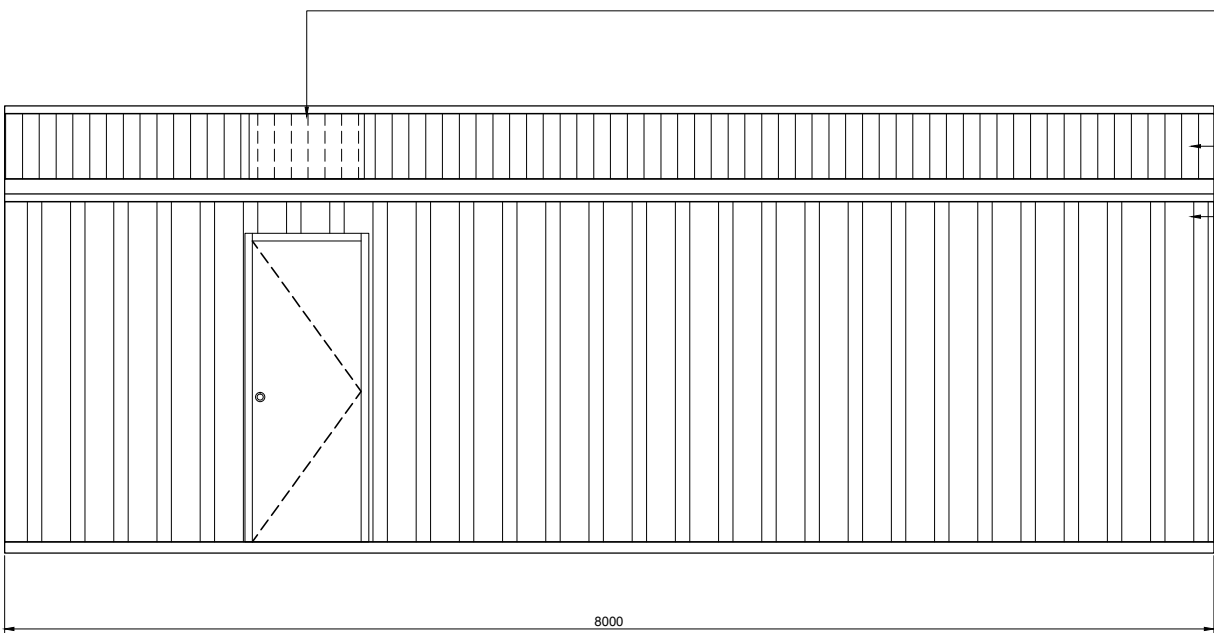
"C.S." = CLEARSPAN "L." = LEFT "R." = RIGHT

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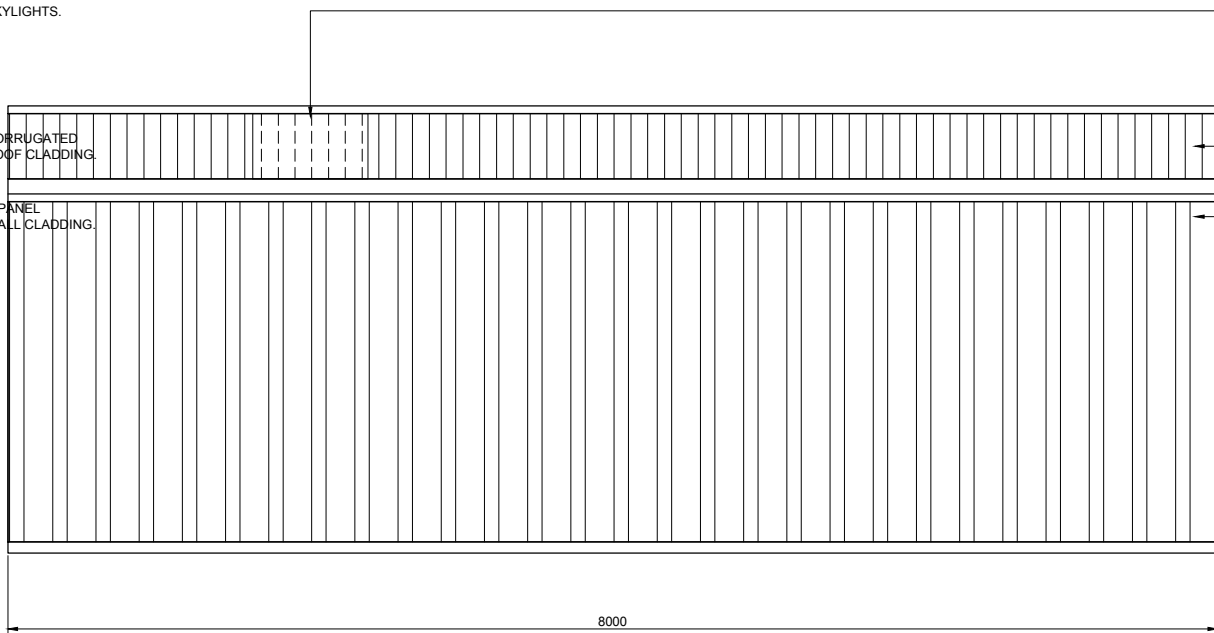


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|--------------|-------|----------------------|-------------------|---------------|--------------|---|--|--|--|--|
| 6 OF 8 | SHEET | JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) (CONTACT) 02 6382 4387 DON & KERRY MCLEOD 9B SMITH STREET HARDEN | | | 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. PE0002216 Regn. No. CC5648M | Mr Timothy Roy Messer BE MIEAust RPEQ Signature Date 17/5/2022 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register |
| | | NCC 2019 | | | | | | | | |

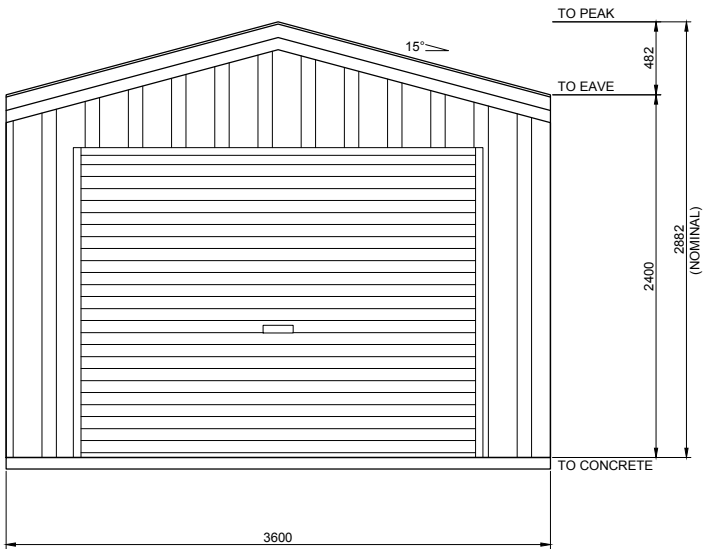
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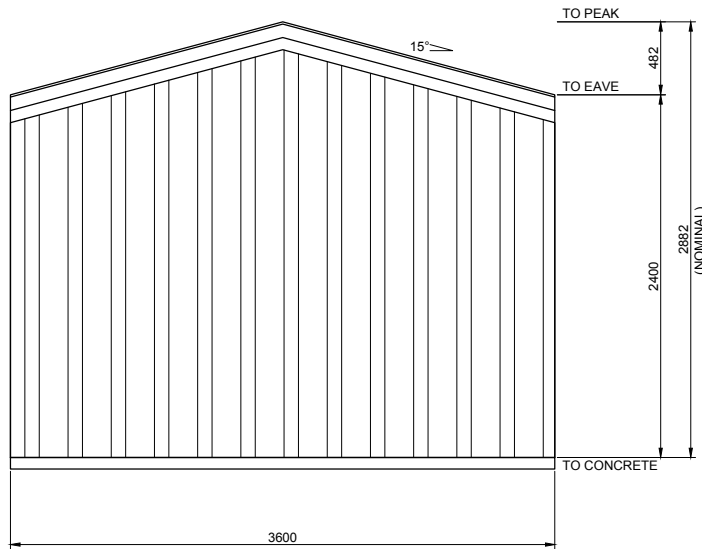
1
7
SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 50



2
7
SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 50



4
7
ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 50



3
7
ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 50

| BUILDING COLOURS | |
|------------------|---------------|
| WALL | PALE EUCALYPT |
| ROOF | MANGROVE |
| ROLLER DOOR | PALE EUCALYPT |
| P.A. DOOR | PALE EUCALYPT |
| DOWNPIPE | PALE EUCALYPT |
| GUTTER | MANGROVE |
| CORNER FLASHING | PALE EUCALYPT |
| BARGE FLASHING | MANGROVE |
| OPENING FLASHING | PALE EUCALYPT |

7
OF
8

SHEET

JOB NO.
MAST35679

DATE
17/5/2022

CHECKED
TM

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FDS

STEEL BUILDING BY
M.A. STEEL PTY. LTD. (LIC 225516C)

FOR
AT

2019

NCC

(CONTACT)

02 6382 4387

DON & KERRY MCLEOD

9B SMITH STREET
HARDEN

SHED SAFE
ACCREDITED

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SHEDS

NORTHERN
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engineers

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Fax: 07 4725 5850
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ABN 341 008 173 56

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Mr Timothy Roy Messer BE MIEAust RPEQ

Signature
T. Messer

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NOTES:

BRACING MATERIALS - THE SHED ERECTOR TO SUPPLY SPECIFIC BRACING.
SUITABLE RIGID MEMBERS CAPABLE OF TENSION AND COMPRESSION OR OPPOSING CHAINS OR OPPOSING LOAD RATED RATCHET STRAPS TO BE USED. (RIGID BRACING AS SHOWN ON DIAGRAM) ROPE BRACING SUITABLE ONLY FOR SMALLER STRUCTURES IN IDEAL CONDITIONS.

BRACING LOCATION - TEMPORARY BRACING TO BE ERECTED AS CLOSE TO 45 DEGREE ANGLE AND FIXED TO THE TOP OF THE COLUMN OR MULLION TO ACHIEVE THE OPTIMUM EFFECTIVENESS. IF THERE IS NOT ENOUGH SPACE FOR A 45 DEGREE ANGLE, THEN 20 DEGREE ANGLE IS TO BE THE MINIMUM ANGLE ALLOWED (REFER TO DIAGRAM). RIGID TEMPORARY BRACING MEMBER TO BE BOLTED TO HEAVY ANGLE PEGS HAMMERED INTO THE GROUND OR TO A BRACKET, MASONRY ANCHORED TO THE SLAB.

BRACING REMOVAL - TEMPORARY BRACING TO REMAIN IN PLACE UNTIL CLADDING IS FULLY INSTALLED WHERE POSSIBLE. IN NO CASE SHOULD TEMPORARY BRACING BE REMOVED UNTIL ALL PURLINS, GIRTS (AND PERMANENT CROSS BRACING WHERE USED) ARE FIXED.

SITE SAFETY - DUE CONSIDERATION TO BE GIVEN TO SITE SAFETY IN REGARD TO LOCATIONS OF BRACING AND PEGS.

GUIDE APPLICATION - TEMPORARY BRACING AS DESCRIBED IS A MINIMUM REQUIREMENT FOR AN AVERAGE, STANDARD SITE CONDITION. PROVIDE ADDITIONAL BRACING FOR MORE SEVERE AND/OR HIGH EXPOSURE SITE CONDITIONS. ADDITIONAL BRACING TO BE USED AS AND WHERE NECESSARY TO ENSURE THAT ENTIRE FRAME IS RIGID THROUGHOUT CONSTRUCTION. RESPONSIBILITY FOR ENSURING STABILITY OF STRUCTURE REMAINS WITH THE BUILDER.

TILT UP METHOD
FOR STRUCTURES UNDER 9M SPAN, LESS THAN 3M HIGH AND LESS THAN 12M LONG

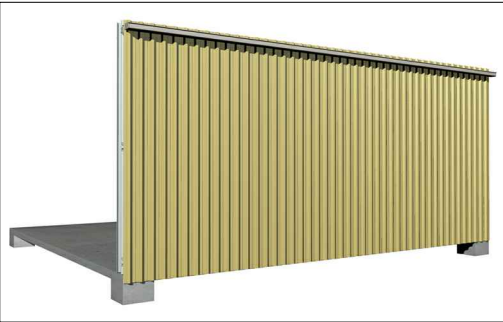
- ASSEMBLE THE FIRST SIDEWALL FRAME (COMPLETE WITH WALL SHEETING, BRACING AND GUTTER) ON THE GROUND AND LIFT ASSEMBLED SIDEWALL FRAME INTO POSITION. FIX OFF TEMPORARY SIDE BRACING TO EACH END (REFER TO DIAGRAM). FIX BASE CLEATS.
- ASSEMBLE THE SECOND SIDEWALL FRAME AS PER FIRST SIDEWALL FRAME. LIFT INTO POSITION. FIX OFF TEMPORARY WALL BRACING TO EACH END (REFER TO DIAGRAM) FIX BASE CLEATS.
- FIX GABLE END RAFTERS TO COLUMNS TO TIE WALLS. PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- INSTALL REMAINING RAFTERS. AS EACH RAFTER PAIR IS INSTALLED, AT LEAST ONE PURLIN PER 3M OF RAFTER LENGTH IS TO BE INSTALLED TO SECURE RAFTERS.
- INSTALL REMAINING PURLINS
- INSTALL KNEE AND APEX BRACES IF AND WHERE APPLICABLE.
- REPEAT FOR LEANTO'S.

FRAME FIRST METHOD
FOR STRUCTURES OVER 9M SPAN, GREATER THAN 3M HIGH AND GREATER THAN 12M LONG

- ASSEMBLE PORTAL FRAMES ON THE GROUND (WITH KNEE AND APEX BRACES IF AND WHERE APPLICABLE). LIFT THE FIRST PORTAL FRAME ASSEMBLY INTO POSITION. FIX OFF TEMPORARY END BRACING (REFER TO DIAGRAM). FIX BASE CLEATS.
- PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- THE SECOND PORTAL FRAME ASSEMBLY TO BE LIFTED INTO POSITION. FIX EAVE PURLINS AND AT LEAST ONE PURLIN PER 3M OF RAFTER TO SECURE FRAME ASSEMBLY. FIX BASE CLEATS. FIX TEMPORARY SIDEWALL BRACING.
- STAND REMAINING PORTAL FRAME ASSEMBLY AS PER STEP C, FIXING TEMPORARY SIDE WALL BRACING TO EVERY SECOND BAY. BRACE OTHER END PORTAL FRAME AS PER FIRST PORTAL FRAME.
- INSTALL REMAINING PURLINS AND GIRTS.
- REPEAT FOR LEANTO'S.

GUIDE TO THE INSTALLATION OF TEMPORARY BRACING

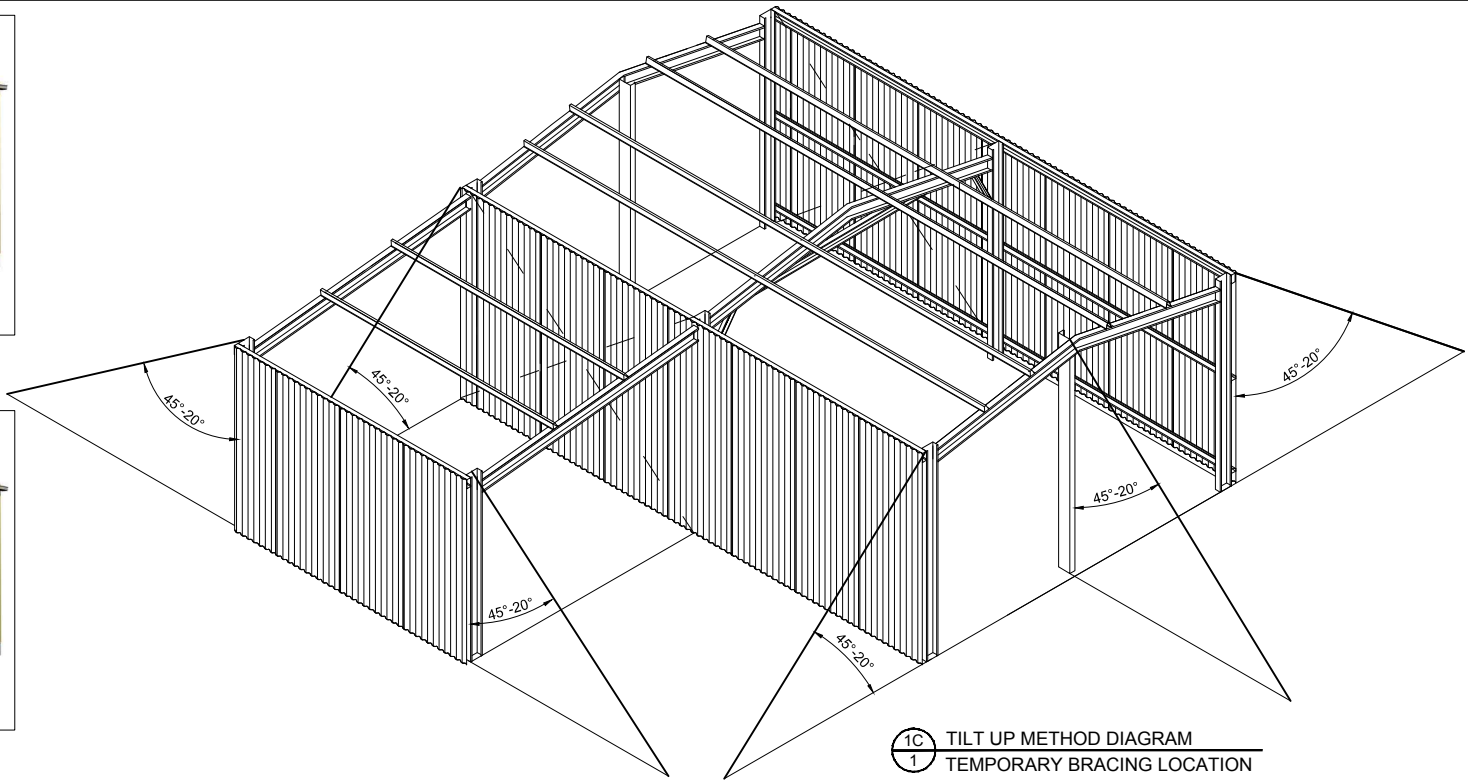
(REFER TO INSTALLATION GUIDE MANUAL FOR THE TWO METHODS OF CONSTRUCTION)



1A FIRST SIDEWALL FRAME
1 REFER 1C FOR TEMPORARY BRACING LOCATION



1B SECOND SIDEWALL FRAME
1 REFER 1C FOR TEMPORARY BRACING LOCATION



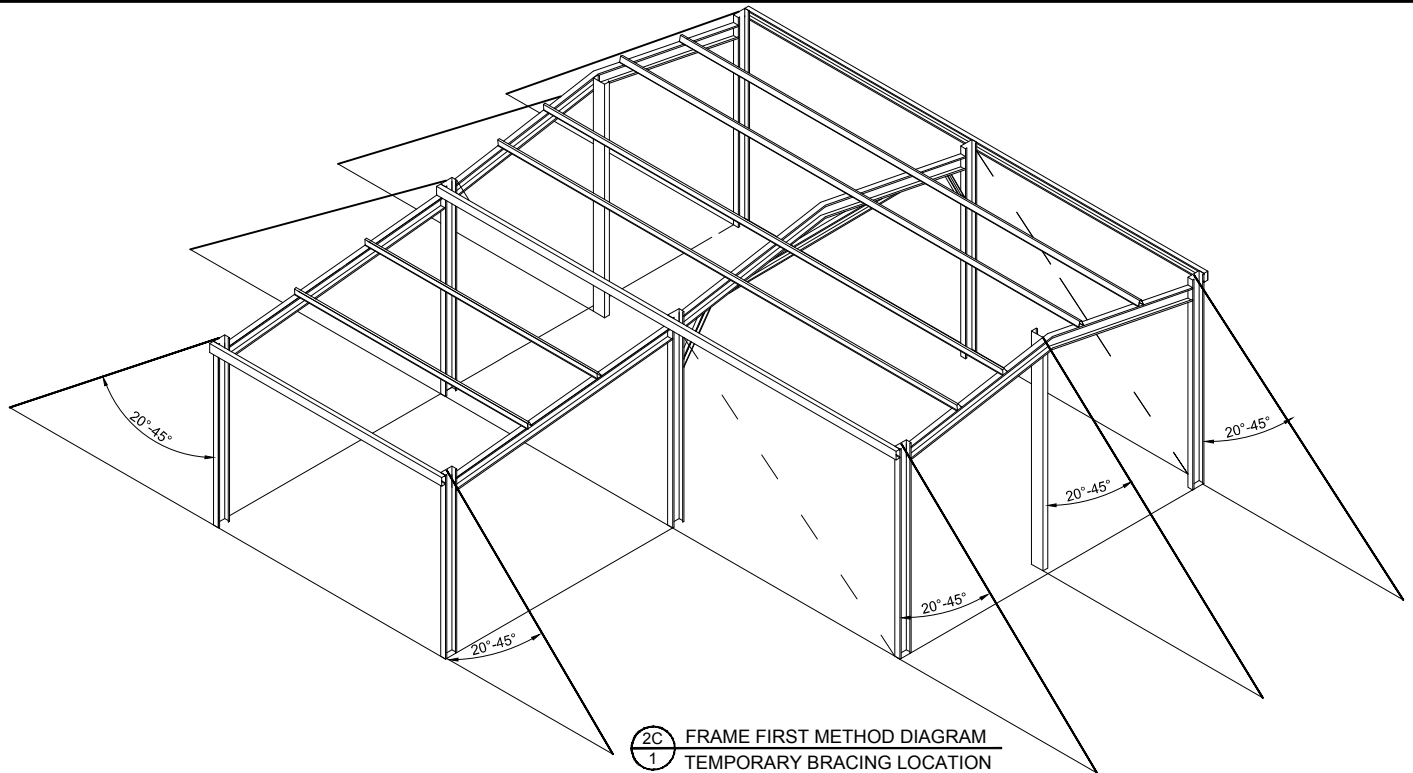
1 TILT UP METHOD DIAGRAM
1 SCALE: NTS



2A FIRST & SECOND PORTAL FRAME ASSEMBLY
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2B COMPLETE PORTAL FRAME ASSEMBLY
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2 FRAME FIRST METHOD DIAGRAM
1 SCALE: NTS

| | | | | | | | |
|----|---|-------|-----------|-----------|---------|-------|---|
| OF | 8 | SHEET | JOB NO. | DATE | CHECKED | DRAWN | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) FOR AT |
| | | | MAST35679 | 17/5/2022 | TM | FDS | |
| OF | 8 | SHEET | NCC | | | | DON & KERRY MCLEOD 9B SMITH STREET HARDEN |
| | | | 2019 | | | | |

(CONTACT)
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DON & KERRY MCLEOD
9B SMITH STREET
HARDEN



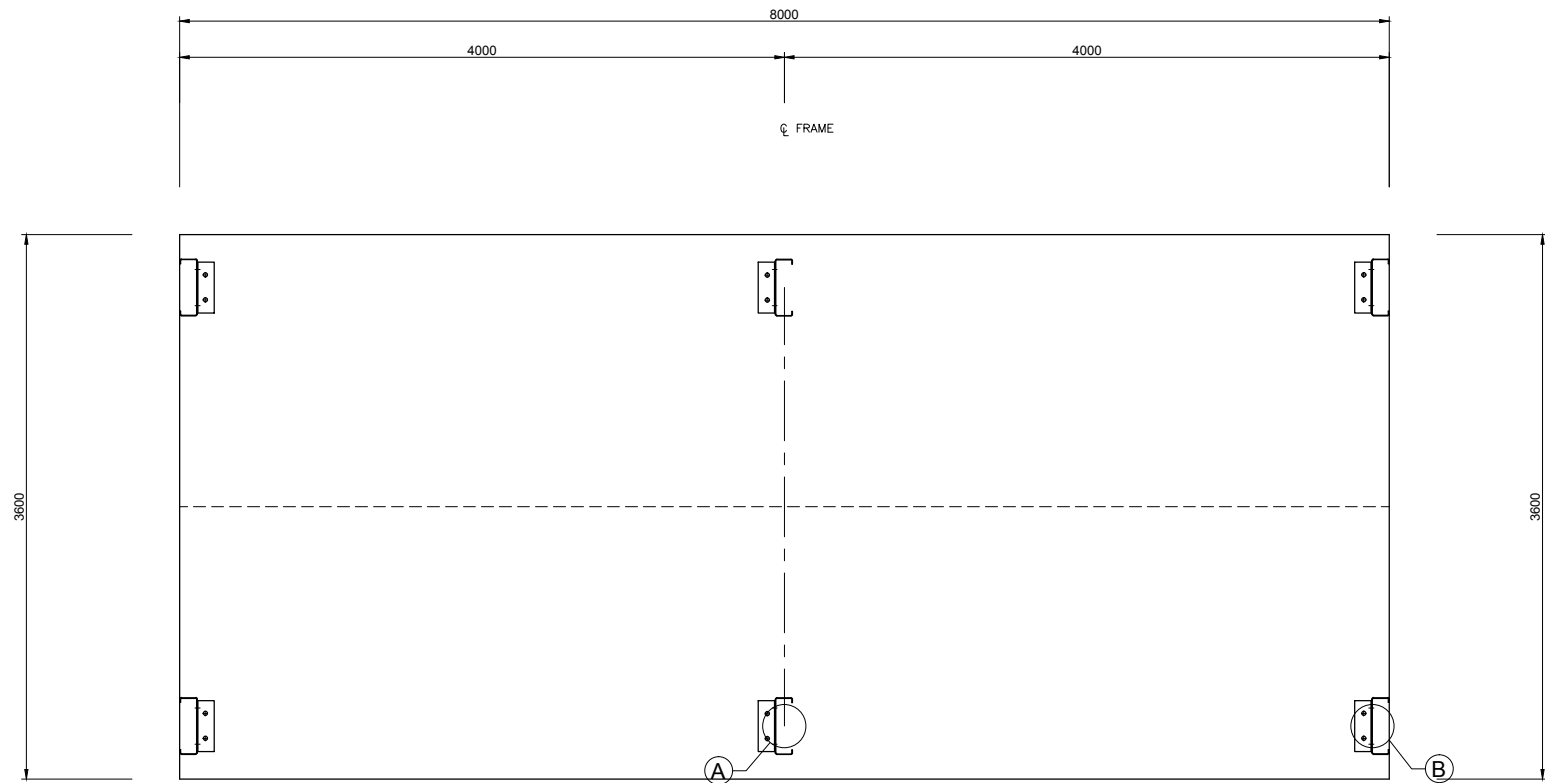
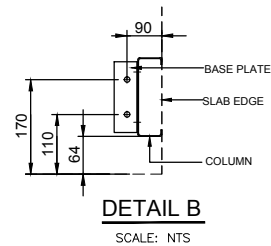
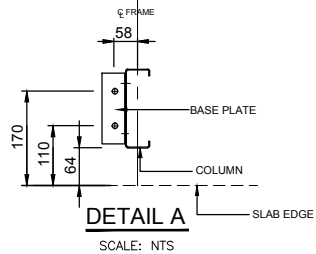
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Registered Professional Engineer (Civil & Structural) QLD
Registered Certifying Engineer (Structural) N.T.
Registered Engineer - (Civil) VIC
Registered Engineer - (Civil) TAS

Regn. No. 2558980
Regn. No. 9985
Regn. No. 116373ES
Regn. No. PE0002216
Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature *T. Messer*
Date 17/5/2022
Registered on the NPER in the areas of practice
of Civil & Structural National Professional
Engineers Register

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1 BOLT LAYOUT PLAN
1 SCALE: 1 = 50

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

| | | | | | | | | |
|----------------------|-------------------|---------------|--------------|---|--|---|---|-------------------------|
| JOB NO. MAST35679 | DATE 17/5/2022 | CHECKED TM | DRAWN FDS | STEEL BUILDING BY M.A. STEEL PTY. LTD. (LIC 225516C) | |  |  | BOLT LAYOUT PLAN |
| | | | | FOR DON & KERRY MCLEOD AT 9B SMITH STREET HARDEN | | | | |

COMPLIANCE CERTIFICATE FOR BUILDING DESIGN

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|-------|--------------------|--|-------------------------------|-------------------------------|--|-----------------|----------------------------------|--|-----------------|--------------------|--|-------------------|--------------|--|----------------|-----|--|-------------|--------------|--|----------------|---------------------|--|---------------------------------|---------|--|
| Property Description Street address (include number, street, suburb/locality & postcode) | 9B SMITH STREET HARDEN Postcode : 2587 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of Component/s Certified Clearly describe the extent of work covered by this certificate. | Steel Portal Frame Structure. 3.6m span x 8m O/A length x 2.4m eaves height. Consisting of 2 bays at 4m spacing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basis of Certification Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon. | Australian Standards (list) AS/NZS 4600-2018, AS/NZS 1170.0,1-2002, 1170.2-2011, 1170.3-2003, 1170.4-2007, AS2870-2011, AS3600-2018 2019 National Construction Code of Australia Amendment 1 Region AS1170.2 = Reg A NCC Importance Level = 2 Annual Probability Exceedance wind = 1:500 Regional 3 s Gust Wind Speed for annual probability of exceedance $V_R = 45$ m/s Wind directional multipliers for the 8 cardinal directions $M_d = 1.00$ Terrain/Height multiplier (M_z , Cat) = 0.87 Topographic multiplier $M_t = 1$ Ext. Pressure Coefficient $c_{pe} = -1.15, 1.20$ NCC Building Classification: Class 10 Factor for Region = NA NCC Equivalent Wind class = N/A Design Roof Live Load = 0.25 kPa Shielding Multiplier $M_s = 0.83$ Design Wind Speed = 32 m/s Int. Pressure Coefficient $c_{pi} = -0.5, 0.5$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reference Documentation Clearly identify any relevant documentation, e.g numbered structural engineering plans | Drawing Nos: 'Fair Dinkum Sheds' Structural Design Drawing To be read in conjunction with Pages 1 to 8 For Job Number: MAST35679 DATED : 17/5/2022 Specifications: Computations: Test Reports: Other Documentation: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Competent Person Details A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in aspect of the design, building or inspection of the building work because of the person's skill and experience in the aspect. The competent person must also be registered or licensed under a law applying in the state to practice the aspect. A COPY OF A CURRENT CV AND PROFESSIONAL REGISTRATION DETAILS MUST BE PROVIDED WITH THE CERTIFICATE | <table border="1"> <tr> <td>Name:</td> <td colspan="2">Timothy Roy Messer</td> </tr> <tr> <td>Company Name (If applicable):</td> <td colspan="2">Northern Consulting Engineers</td> </tr> <tr> <td>Postal Address:</td> <td colspan="2">50 Punari Street, Currajong 4812</td> </tr> <tr> <td>Contact Person:</td> <td colspan="2">Timothy Roy Messer</td> </tr> <tr> <td>Telephone Number:</td> <td colspan="2">07 4725 5550</td> </tr> <tr> <td>Mobile Number:</td> <td colspan="2">N/A</td> </tr> <tr> <td>Fax Number:</td> <td colspan="2">07 4725 5850</td> </tr> <tr> <td>Email Address:</td> <td colspan="2">design@nceng.com.au</td> </tr> <tr> <td>License or Registration Number:</td> <td>2558980</td> <td>Copy of CV Attached: <input type="checkbox"/> Tick Box</td> </tr> </table> <div style="text-align: right;"> <input type="checkbox"/> Y <input checked="" type="checkbox"/> N or <input checked="" type="checkbox"/> X </div> | | | Name: | Timothy Roy Messer | | Company Name (If applicable): | Northern Consulting Engineers | | Postal Address: | 50 Punari Street, Currajong 4812 | | Contact Person: | Timothy Roy Messer | | Telephone Number: | 07 4725 5550 | | Mobile Number: | N/A | | Fax Number: | 07 4725 5850 | | Email Address: | design@nceng.com.au | | License or Registration Number: | 2558980 | Copy of CV Attached: <input type="checkbox"/> Tick Box |
| Name: | Timothy Roy Messer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Mobile Number: | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| License or Registration Number: | 2558980 | Copy of CV Attached: <input type="checkbox"/> Tick Box | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature of Competent Person This form may be used by competent persons to certify the design of a material, system, method of building, building element design or other thing. If the competent person is a licensed company the authorised person of the company is to sign the form. | I certify that the item/s described above, if installed or carried out in accordance with the information contained in this certificate, including any referenced documentation, will comply with the National Construction Code of Australia/relevant Australian or International Standard. Signature of competent person:  Date: 17/5/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOCAL GOVERNMENT USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date received | | Reference Number/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | |