## ENGINEERING SCHEDULE

CERTIFIED STEEL PORTAL FRAME SHED DESIGN FOR "REGION A" TERRAIN CATEGORY 2.0, 2.5 & 3.0 - IMPORTANCE LEVEL 2. Internal Pressure: 0.5 Design Snow Load: 0.00 KPa, Roof Snow Load: 0.00 KPa

Customer: Mudgee Aero Club Inc Site Address: Mudgee Airport, Mudgee NSW 2850

Main Building: Span: 18, Length: 24, Height: 3.2, Roof Pitch: 11 degrees The length being comprised of 4 bays, the largest bay is 6m bays. Left LeanTo: NA Right LeanTo: NA

Total Kit Weight: 8082.6kg

INTERNAL PORTALS	END PORTALS
Column: 2C30024	Column: C30024
Rafter: 2C30024	Rafter: C30024
Knee Brace: 2C15024	Knee Brace: C15024
Knee Brace Length: 3000	Knee Brace Length: 3000
Apex Brace: 2C15024	Apex Brace: C15024
Apex Brace Length: 4600	Apex Brace Length: 4600
	Endwall Mullion: C30024

LEFT LEAN TO PORTALS	RIGHT LEAN TO PORTALS
Internal Column: NA	Internal Column: NA
Internal Rafter: NA	Internal Rafter: NA
End Column: NA	End Column: NA
End Rafter: NA	End Rafter: NA
Knee Brace: NA	Knee Brace: NA
Knee Brace Length: NA	Knee Brace Length: NA

NOTE: All unclad intermediate columns are always back to back (refer to drawing: Floor Plan).

PURLINS AND GIRTS				
Eave Purlin: TH120100				
Side Wall Girts: TH120100	Max Spacing: 1200	Overlap: 10%		
Front End Wall Girts: NA	Max Spacing: NA	Overlap: NA		
Back End Wall Girts: TH120100	Max Spacing: 1200	Overlap: 10%		
Roof Purlins: TH120100	Max Spacing: 1200	Overlap: 10%		

NOTE: Girt spacing will vary to a maximum 1.2m where window/s are located.

FASTENERS	
Sleeve Anchor Bolts: M16x105 Sleeve Anchor	
Frame Bolts: M16x45 Purlin Assembly Zinc (Mild)	
Frame Screws: Frame Screw 14x14x22	
Cross Bracing Strap: 32mm x 1.2 strap	
Open Bay Header Height: NA	

	COLOUR SCHEDULE
Roof Sheets: Mist Gre	en la
External Wall Sheets: Mist Gre	en
Roller Doors: NA	
Flashings: Mist Gre	en
PA Doors: Mist Gre	en
Windows: NA	



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# **CIVIL & STRUCTURAL ENGINEERS**

DOMESTIC & LIGHT INDUSTRIAL STEEL PORTAL FRAME SHED STRUCTURES This structure is designed in compliance with AS4600, AS3600 and AS1170 1 to 4 as Importance Level 2 with a Live Load of 0.25kPa as "Air Leaky Structures" providing stability when openings are prevalent.

The structures are clad with corrugated pre-painted finish, 0.42mm walls and 0.42mm roof (compliant with AS1562.1 Metal) over cold formed 450 to 550mPa galvanized steel C sections primary frames.

Primary framing is fastened together with 4.6 Class galvanized bolts adequately tensioned on ground prior to erection.

Secondary framing steel bracing, with purlins and girts lapped, are all tek fastened to primary steel with a minimum of two (2) teks per connection as specified in details.

All rainwater products are compliant with AS2179.1 (Metal).

#### ENGINEERING

The undersigning engineer has checked that the design of the structure complies with relevant current Australian Standards as stated above and the following i.e AS4671- 2001 Steel Reinforcing materials, AS3600 - Concrete structures. However, he will not be present during construction, neither will he conduct inspections nor construction supervision.

The class 10a buildings are designed for erection on pad footings or slab based on soil of classification "A"-"P" with minimum bearing capacity 100kPa (i.e. organic soil is to be removed to a suitable material below natural surface).

Where (suitable) fill is required to level the site, it should be placed and compacted in layers of 150mm maximum.

Concrete pad footings and slab supply and placement is to be in compliance with AS2870-2011 Residential Slabs & Footings, AS3600-2009 Concrete Structures for A2 and B2 exposure (i.e. 25mPa strength @ 28 days strength) with recommended slump 75 to 80mm for light pneumatic tyred traffic all trafficable floors.

For sites where these conditions are considered to be inadequate, a customized foundation design for the structure can be supplied to suit a specific purpose.

#### CONSTRUCTION

Erection of the structure is to be in compliance with local and state ordinances,

Occupational Health and Safety Regulations and with plans provided.

#### GENERAL

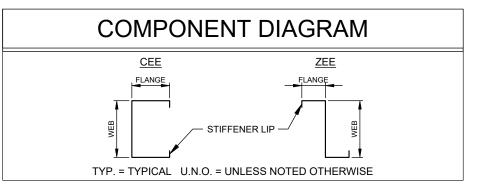
The designs as portrayed on the drawings remain the intellectual property of Best Sheds Pty Ltd and are provided for building approval and construction purposes only and are only valid when blue ink signed and dated by the engineer

#### SNOW LOAD

Following conditions only apply to buildings with snow loading:

• No maintenance or roof traffic permitted on the roof while there is snow present.

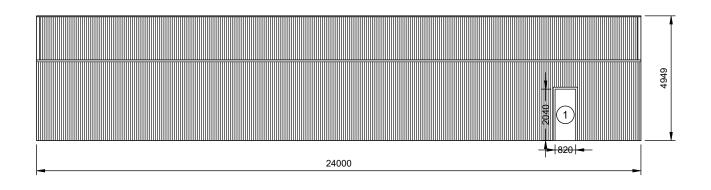
• No other structure to be erected within 500mm of the gutters of this building.

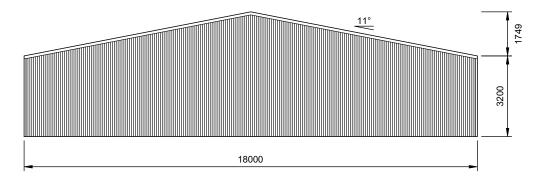


Customer Name: Mudg

Site Address: Mudgee A

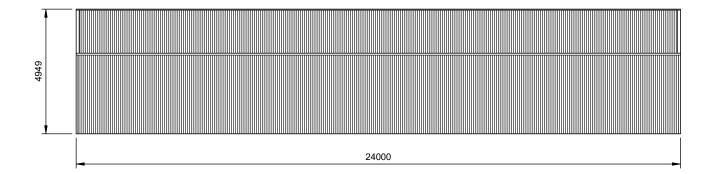
	DATE 14-09-2022
	JOB NO. 1514666018 SHEET 1 of 7
NSW, 2850	











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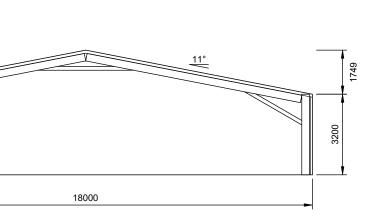


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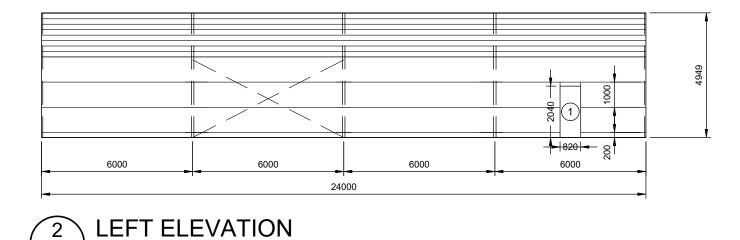
Customer Name: Mudge Site Address: Mudgee A Mudgee, NSW, 285

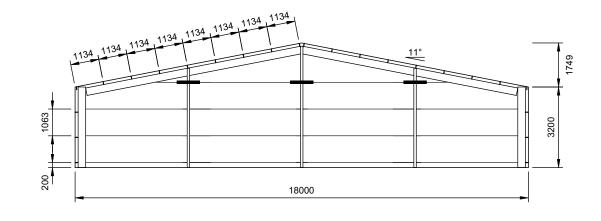
FRAME #5



FRAME #1

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Airport	JOB NO.	1514666018
	SHEET	2 of 7
50		



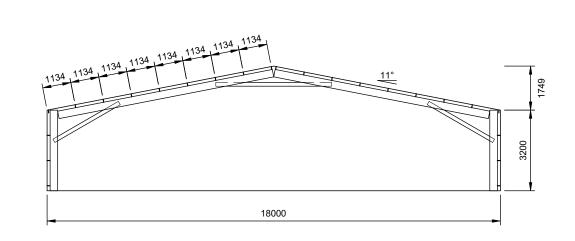


### **REAR ELEVATION** 3 3 SCALE: 1:150

4949 1000 200 6000 6000 6000 6000 24000



SCALE: 1:150







2

3

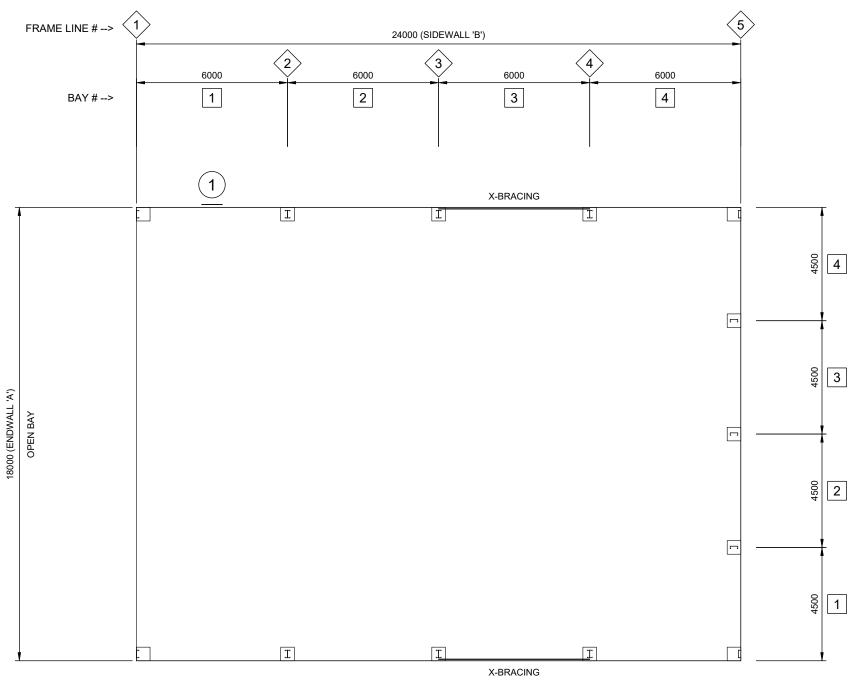
SCALE: 1:150



FRAME #5

FRAME #1

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	SHEET	3 of 7
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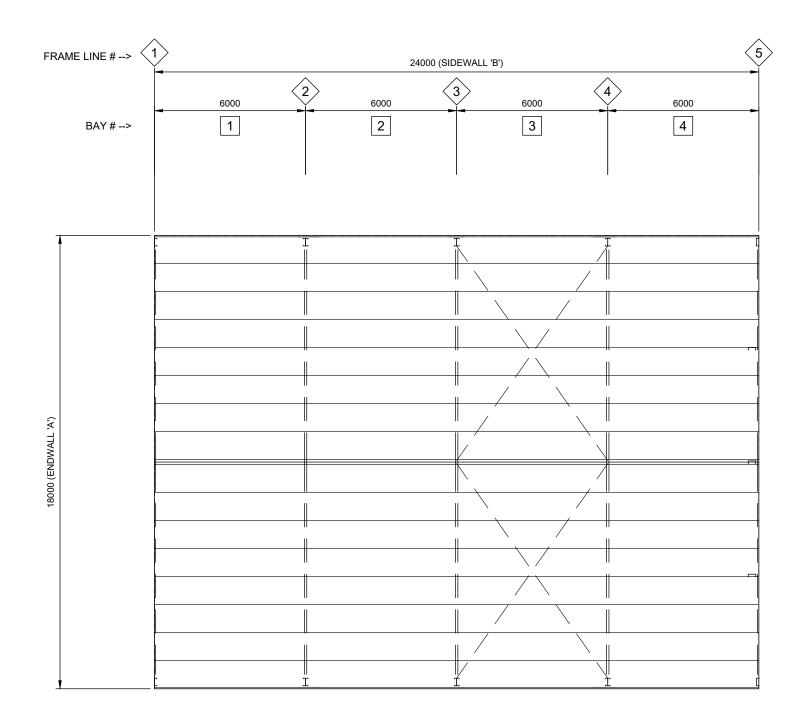


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**CIVIL & STRUCTURAL ENGINEERS** 

Customer Name: Mudge Site Address: Mudgee A Mudgee, NSW, 285

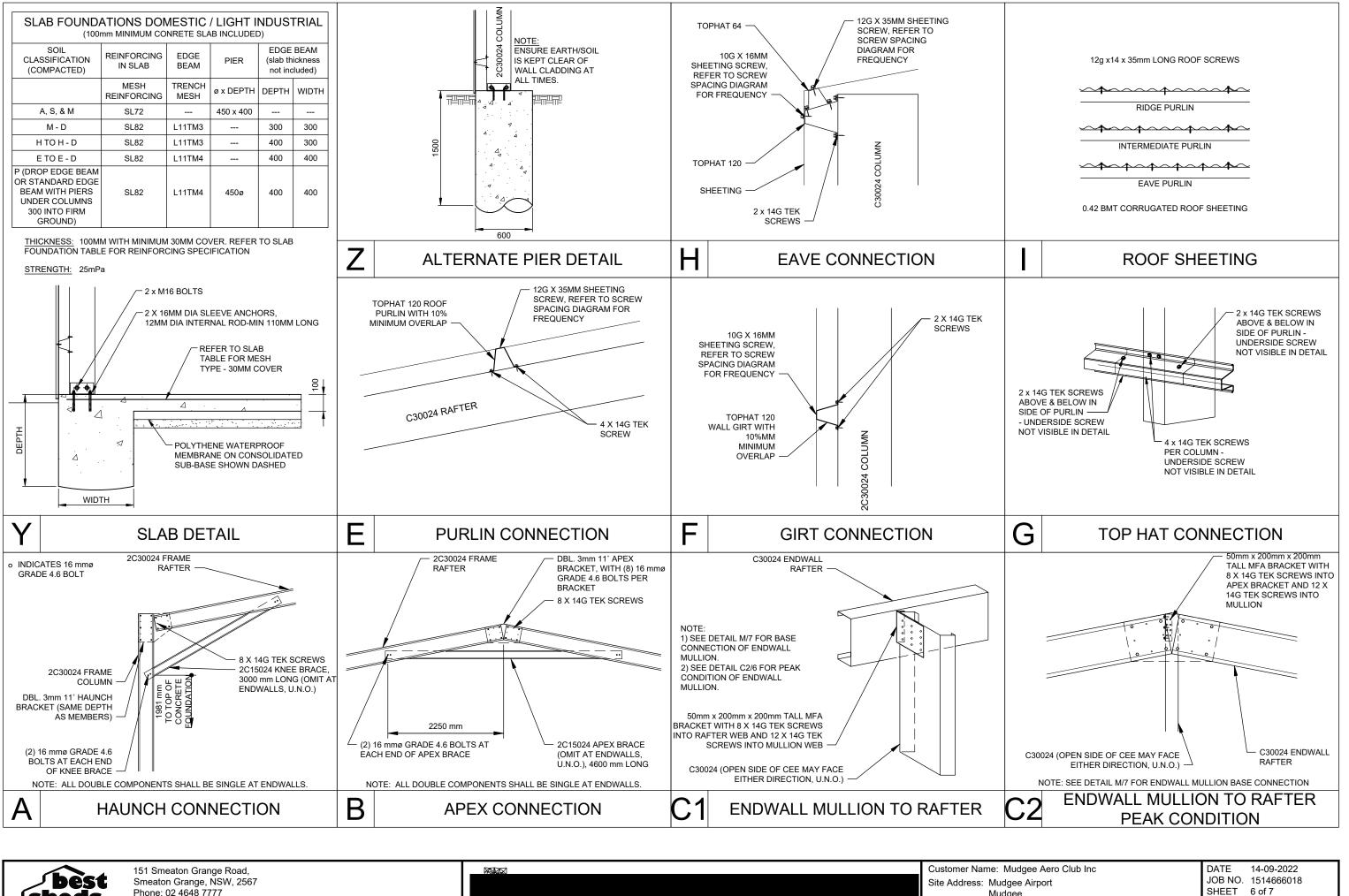
gee Aero Club Inc Airport	DATE 14-09-2022 JOB NO. 1514666018 SHEET 4 of 7
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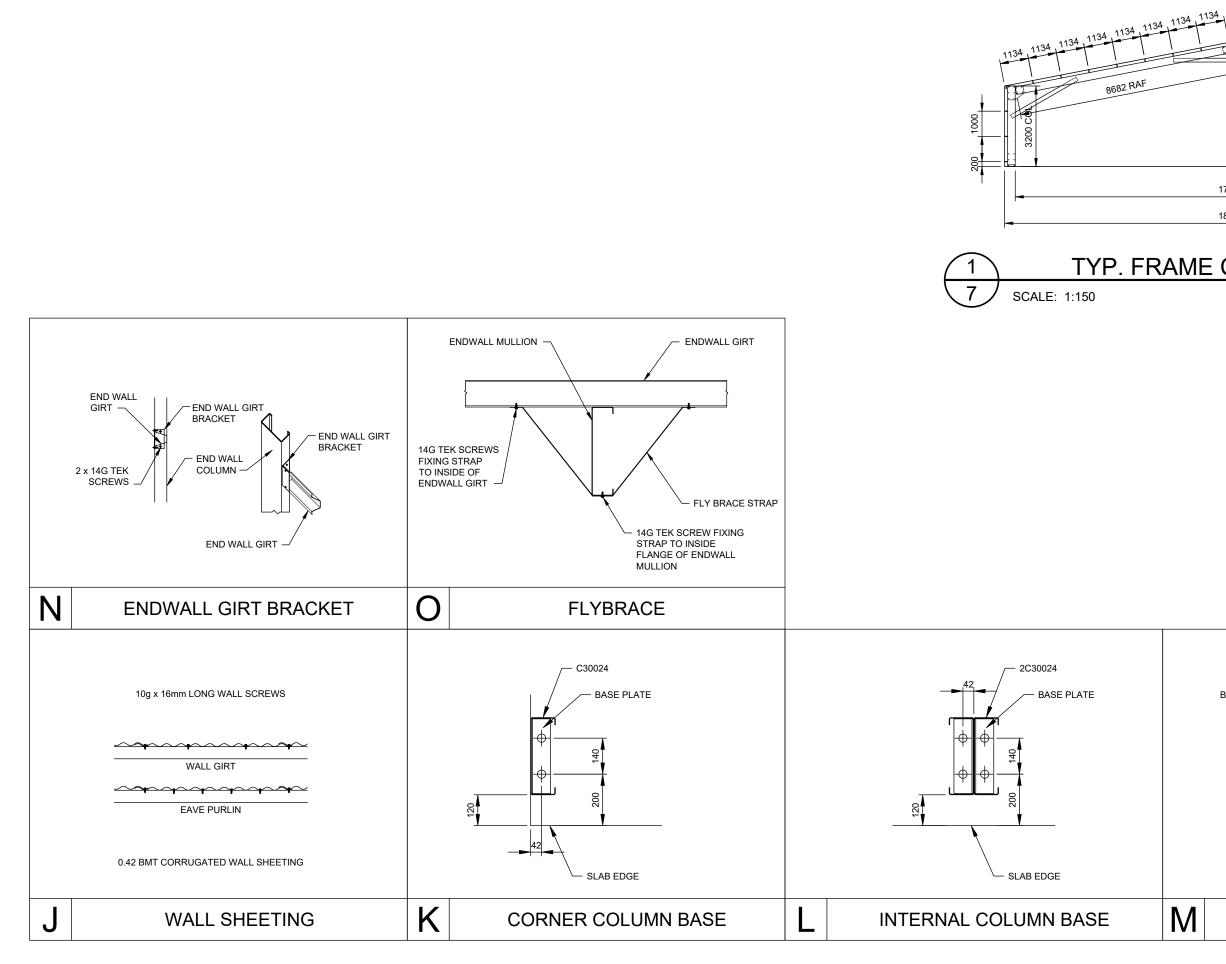
**ROOF FRAMING PLAN** 1 5 SCALE: 1:150



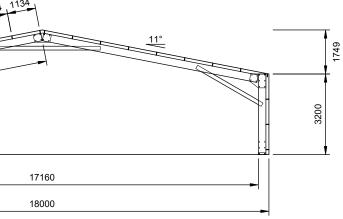
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Airport	JOB NO.	14-09-2022 1514666018 5 of 7
	SHEET	5 of 7
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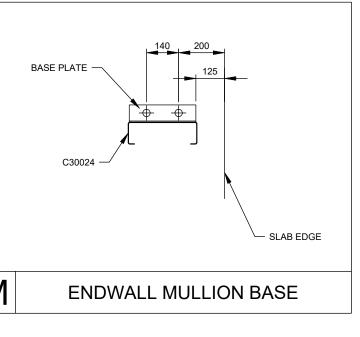






# TYP. FRAME CROSS-SECTION

FRAMES 2-4



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