### **ENGINEERING SCHEDULE**

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "40.93m/s", WIND REGION "A5", TERRAIN CATEGORY "2", IMPORTANCE LEVEL "2"

Internal Pressure: 0.5

Design Snow Load: 0.00 KPa, Roof Snow Load: 0.00 KPa

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Customer

Site Address: 2751 Princes Hwy, Port Fairy VIC 3284

Main Building: Span: 7, Length: 14, Height: 3.2, Roof Pitch: 11 degrees The length being comprised of 4 bays, the largest bay is 3.75m bays. Left LeanTo: NA

Left LeanTo: NA Right LeanTo: NA

Total Kit Weight: 2633.84kg

INTERNAL PORTALS

Column: 2C15015 Rafter: 2C15015 Knee Brace: 2C10010

Knee Brace Length: 1700 Apex Brace: 2C10010 Apex Brace Length: 3300 END PORTALS

Column: C15015 Rafter: C15015 Knee Brace: NA Knee Brace Length: NA Apex Brace: NA

Apex Brace Length: NA Endwall Mullion: C15015

LEFT LEAN TO PORTALS

Internal Column: NA
Internal Rafter: NA
End Column: NA
End Rafter: NA
Knee Brace: NA
Knee Brace Length: NA

RIGHT LEAN TO PORTALS

Internal Column: NA
Internal Rafter: NA
End Column: NA
End Rafter: NA
Knee Brace: 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:
 C10010

 Side Wall Girts:
 TH64100
 Max Spacing: 1250
 Overlap: 10%

 Front End Wall Girts:
 TH64100
 Max Spacing: 1250
 Overlap: 10%

 Back End Wall Girts:
 TH64100
 Max Spacing: 1250
 Overlap: 10%

 Roof Purlins:
 TH64100
 Max Spacing: 1000
 Overlap: 10%

NOTE: Girt spacing will vary to a maximum 1.25m where window/s are located.

**FASTENERS** 

Sleeve Anchor Bolts: M12x80 Sleeve Anchor Yellow Zinc Frame Bolts: M12x30 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: Slate Grey External Wall Sheets: Slate Grey Roller Doors: Slate Grey Flashings: Slate Grey PA Doors: Slate Grey Windows: NA 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 be 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.

25mm deep concrete saw cut, to be made into the surface of the concrete slab every 6m in width or length as crack control joints.

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.

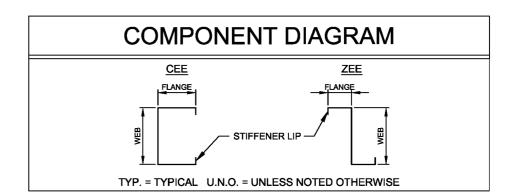
#### **GENERAL**

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.

#### 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.



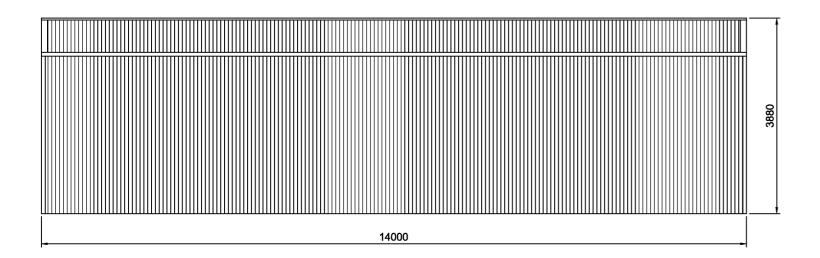
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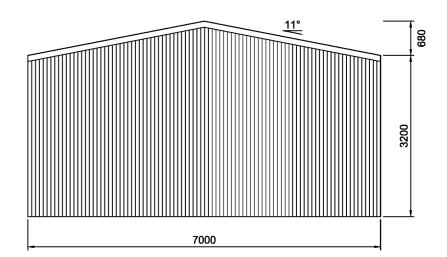
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SHEET





### LEFT ELEVATION - SOUTH ELEVATION

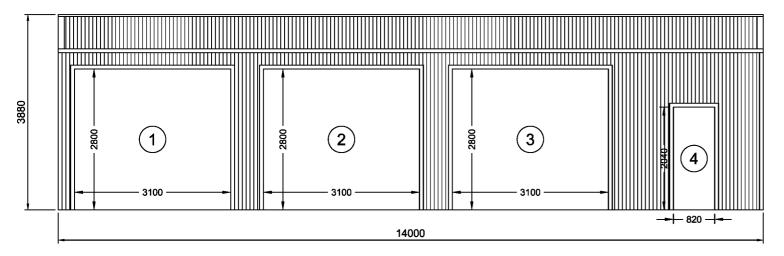
SCALE: 1:75

**REAR ELEVATION - WEST ELEVATION** 

SCALE: 1:75

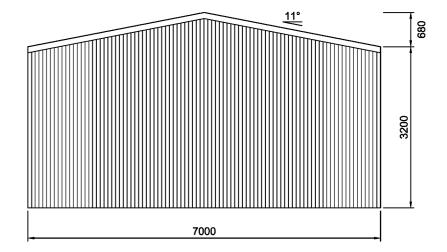
FRAME #5

MATERIAL NOTE: CLAD WITH CORRUGATED PRE-PAINTED FINISH IN SLATE GREY, 0.42MM WALLS AND 0.42MM ROOF OVER COLD FORMED 450 TO 550MPA GALVANIZED STEEL C SECTIONS PRIMARY FRAMES.



3 ROLLER DOORS: SLATE GREY

1 PA DOOR: SLATE GREY



# **RIGHT ELEVATION - NORTH ELEVATION**

SCALE: 1:75

FRONT ELEVATION - EAST ELEVATION

SCALE: 1:75

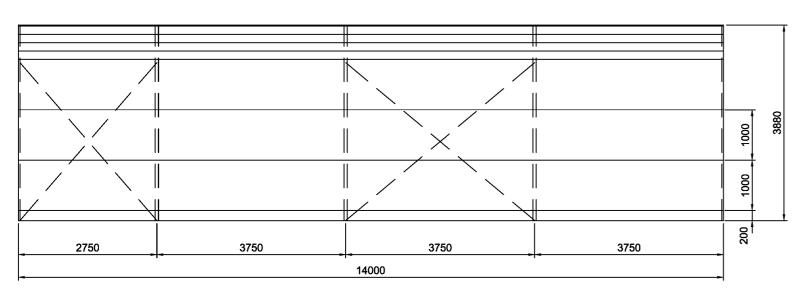
FRAME #1

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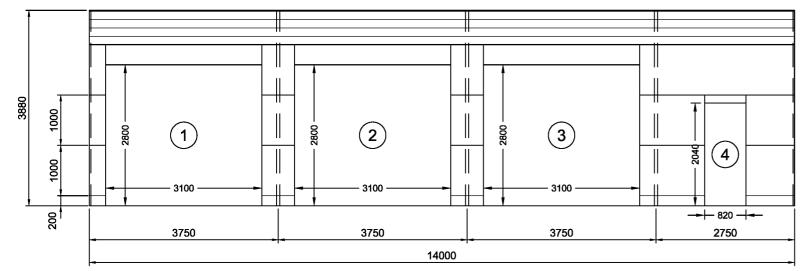
DATE 10-09-2024 JOB NO. 4126040235

SHEET 2 of 8



LEFT ELEVATION - SOUTH ELEVATION

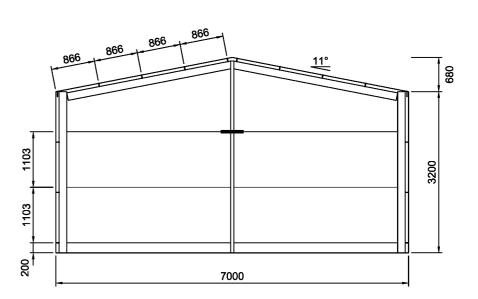
**REAR ELEVATION - WEST ELEVATION** SCALE: 1:75 SCALE: 1:75





RIGHT ELEVATION - NORTH ELEVATION

SCALE: 1:75



7000

FRONT ELEVATION - EAST ELEVATION

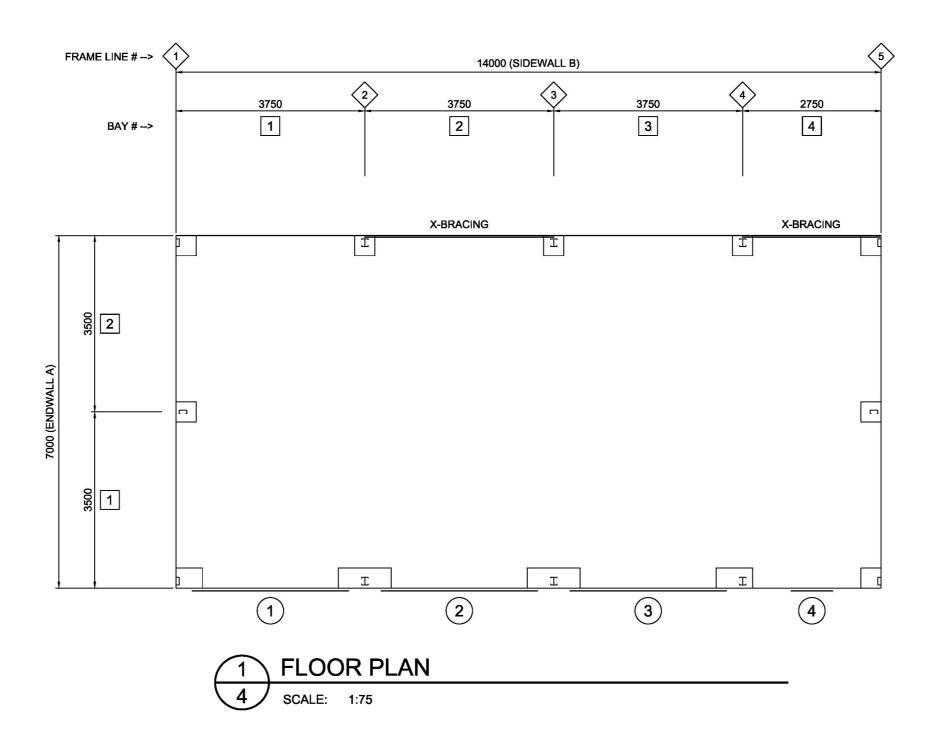
SCALE: 1:75 FRAME #1

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FRAME #5

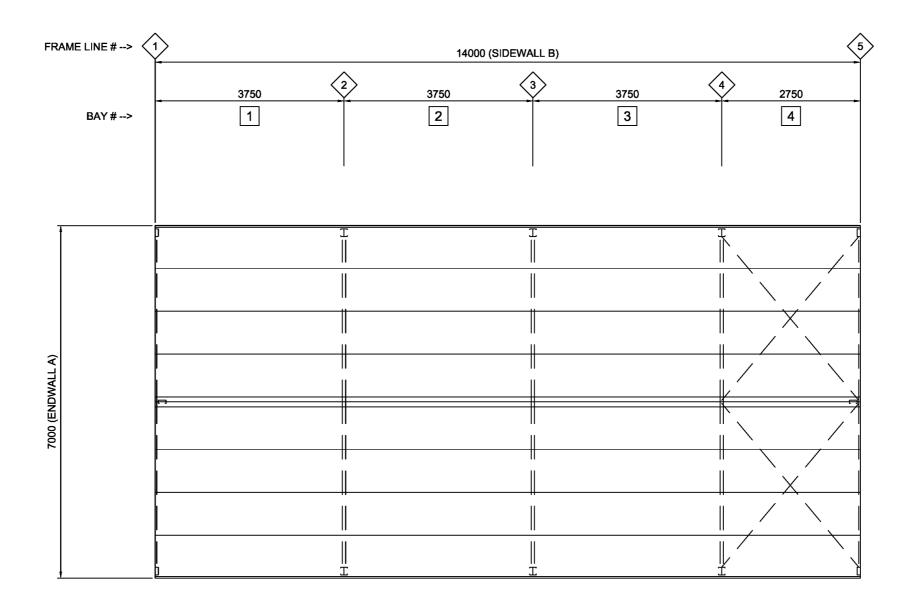






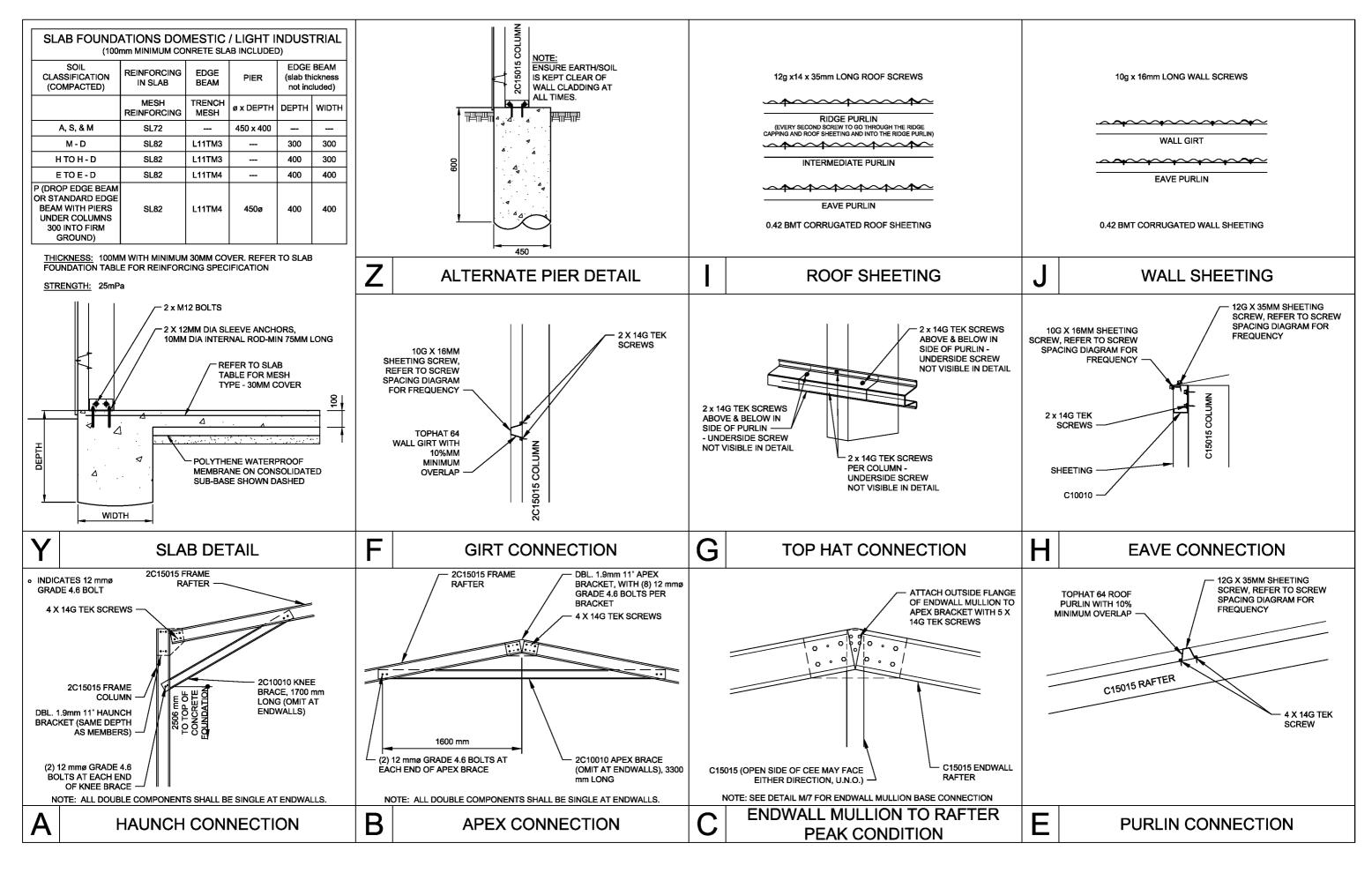
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**ROOF FRAMING PLAN** SCALE: 1:75

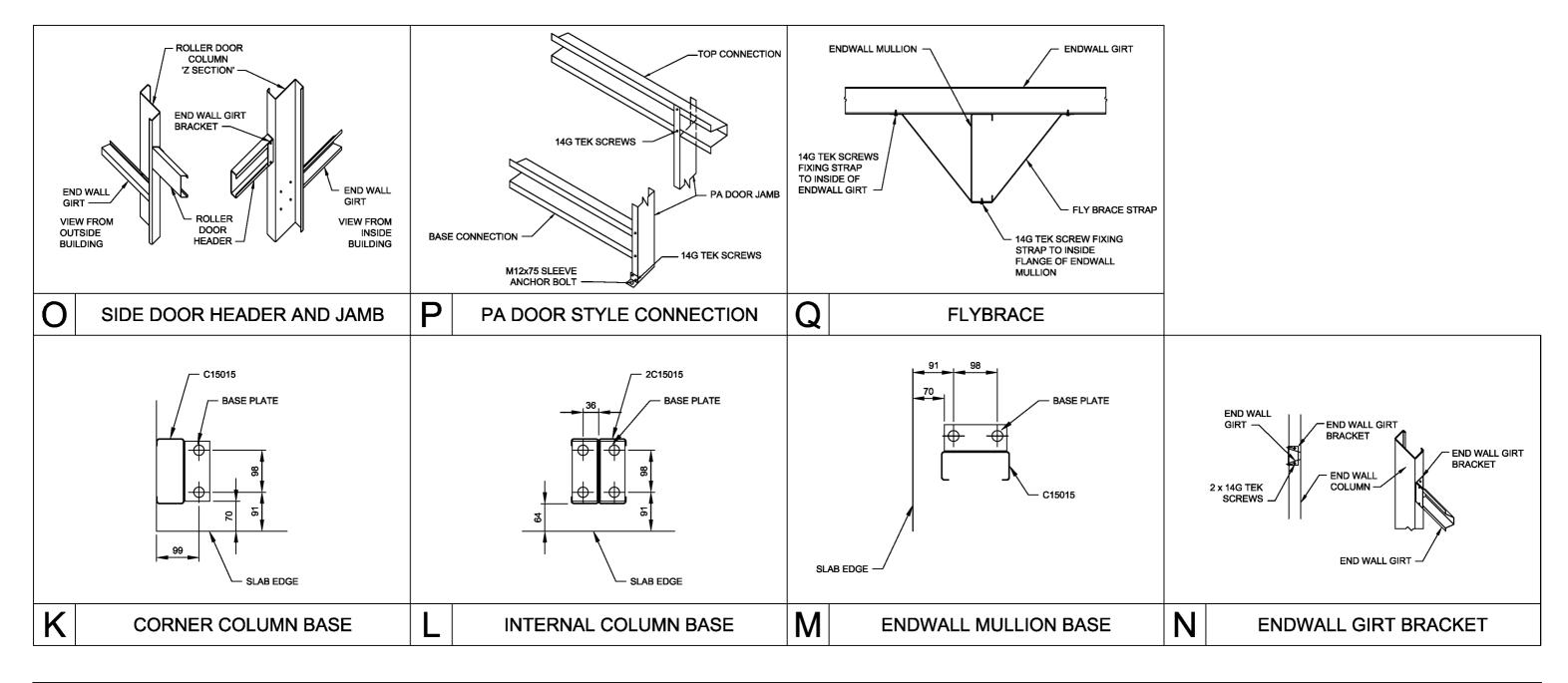
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DATE 10-09-2024 JOB NO. 4126040235 SHEET 6 of 8

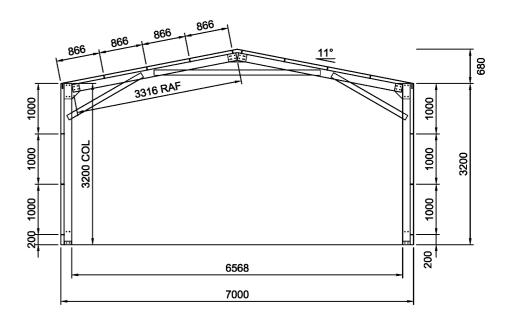


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SHEET 7 of 8



## TYP. FRAME CROSS-SECTION

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FRAMES 2-4

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DATE 10-09-2024 JOB NO. 4126040235 SHEET 8 of 8