Cert No. 30082411050637

Bare Engineering Pty Ltd

Ph: (07) 5482 1146

Rob@McHughSteel.com.au

CERTIFICATE OF COMPLIANCE - DESIGN

To: **The Building Surveyor**

From: **John Towler**
PO Box 783 Gympie QLD

Property Details:

Owner: Lake Cowal Foundation

Site Address: 419 Uncle Bills Rd Lake Cowel 2671

Lot/s: 1	LP/PS/RP: 753084	Volume:	Folio:
Section:	Parish:	District:	

Municipal District: Bland Shire Council

Compliance:

I did not prepare the design and I certify that the part of the design described as:

Length: 14.700 m Width: 6.000 m Height: 2.700 m Apex Height: 2.700 m

Total Floor Area: 88.2 m^2

As Per Drawing Page: 30082411050637 Prepared by: M D Steel Fabrication Pty Ltd

Complies with structural elements designed in accordance with BCA:

Structural elements designed in accordance with the BCA:
AS 1170.0, 1, 2 & 4 Structural Design Actions
AS 2870 - 2011 Residential Slabs & Footings, AS 3600 - 2018 Concrete Structures
AS 4100 - 1998 Steel Structures, AS 4600 - 2018 – Cold-Formed Steel Structures

When constructed in accordance with the following engineering design documents:

1264NT PG1 PG2 REV-15, SLAB PG1 REV-7, RADMUL-CYC PG1 & PG2 REV-0, EW1, QP1, RP1, SW1, MT1, FP1

Signature:

Name of Signatory: John Towler
Position:
Professional Qualifications: C.P. Eng. (Structural) RPEQ 4562 NPER 1317430
Date: 08 Feb 2021

Compliance Statement

Quote Details

Quote No: 30082411050637 **Quote Date:** 24 Aug 2020

Customer: Lake Cowal Foundation

Site: 419 Uncle Bills Rd Lake Cowel 2671

Site Check: https://sitecheck.shedsafe.com.au/Engineering/WindRegion/0d8597b0-e292-4b62-9bc7-efc21e2d85ab

Building Details

Building Style	Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A)
Roof Style	Gable
Roof Pitch	15.00°
Length	14.700m
Width	6.000m
Height	2.700m
Bay Count	4
Bay Sizes	4.20m, 3.50m, 3.50m, 3.50m
Roller Door Notes	The shed has been designed for full internal pressure, Cpi = +0.7 & -0.65. Roller door strength is not critical to design.
Building Class	10A Isolated: Isolated Shed or Carport
Building Importance Level	1
Design Wind Speed	37 m/s
Design Wind Pressure	0.8214 kPa
Wind Speed Certificate	mcH21020030WV

Members

Portals

End Portal PF1	C20019 Punched Flange: 76	**Internal Portal PF2**	C20024 Punched Flange: 76
End Wall Column EWC1	C20019 Punched Flange: 76		
Knee Braces	N/A	**Apex Braces**	N/A

Purlins / Girts

Side Wall Girt SWG1	TopHat 64mm 1.2 BMT	**Side Wall Girt Spacing**	0.300m, 1.500m, 1.500m
End Wall Girt EWG1	0.95 bmt x 64mm Tophat Batten	**End Wall Girt Spacing**	0.300m, 1.500m, 2.700m
Roof Purlin P1	Z10015 Punched Flange: 50	**Roof Purlin Spacing**	0.000m, 1.037m, 2.073m
Eave Purlin EP1	C15015 Unpunched Flange: 64		

Bracing

Strap Bracing	51 x 1.2mm Galv Steel Strap

Doors / Windows

Roller Door	2 x Domestic Door 2.330 H x 2.700 W	**Gsd Door**	1 x 1810w XO Glass Door TH64
Win	1 x 900h x 1510w Window		

Door Mullions / Jambs

Side Wall Door Header DH	C10010 Unpunched Flange: 50	**Door Mullion M1**	None
Door Mullion M1	Z15015 Punched Flange: 64		

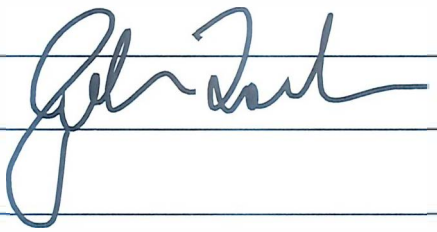
Cladding

Roof Cladding	Corrugated 0.42bmt 0.47 TCT	**Roof Screws**	Roof Screw - 12x39 Corro - Colour
Wall Cladding	M-Deck Hi-Profile 0.42bmt 0.47 TCT	**Wall Screws**	Wall Screw - 10-16x16mm - Colour

Barge / Gutter

Gutter	Quad 125mm Gutter & 90mm PVC D-P	**Down Pipe**	90mm PVC Downpipe - 6m Length
Barge	120mm Custom Square/3-B Ridge Corro Roof	**Ridge Cap**	397G-CO/TD 3 Brk .40 Ridge Cap C/B

We certify that we have selected components from the drawings and verify that this shed kit complies with the standard range of designs. The components selected from these drawings are listed above and in the certificate. This document takes precedence over selections from tables in the Standard Drawings.



DWG-MT1

Bracing Calculations

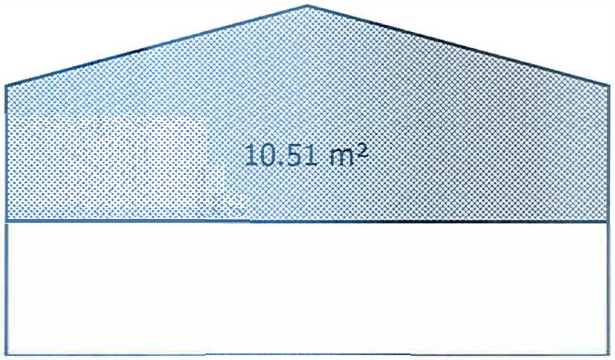
Quote Details

Quote No: 30082411050637 **Quote Date:** 24 Aug 2020

Customer: Lake Cowal Foundation

Site: 419 Uncle Bills Rd Lake Cowel 2671

Effective End Wall Area



Building Details

Building Style	Portal Frame Gable Roof-Enclosed Domestic Design
Roof Style	Gable
Roof Cladding	Corrugated 0.42bmt 0.47 TCT
Wall Cladding	M-Deck Hi-Profile 0.42bmt 0.47 TCT
Design Wind Speed Vzu	37 m/s
Design Wind Pressure Qu	0.8 kPa
Wind Speed Certificate	mcH21020030WV

	Main Building	Left Awning	Right Awning	Total
Length	14.700m			
Width	6.000m			6.000m
Wall Height	2.700m			
Average Roof Height	3.102m			
Roof Pitch	15.00°			

Drag

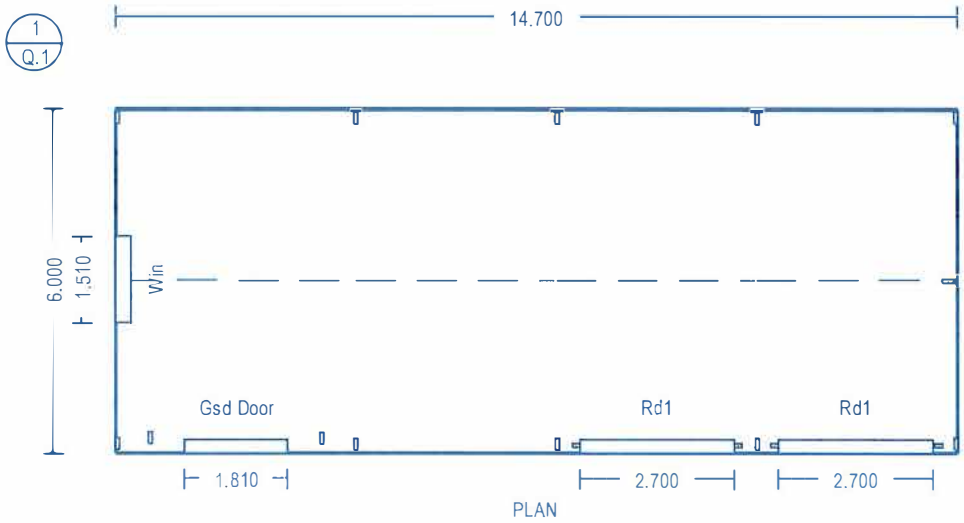
	Roof	Wall
Sheeting Drag Coefficient	0.02	0.04
Drag	0.23	0.20

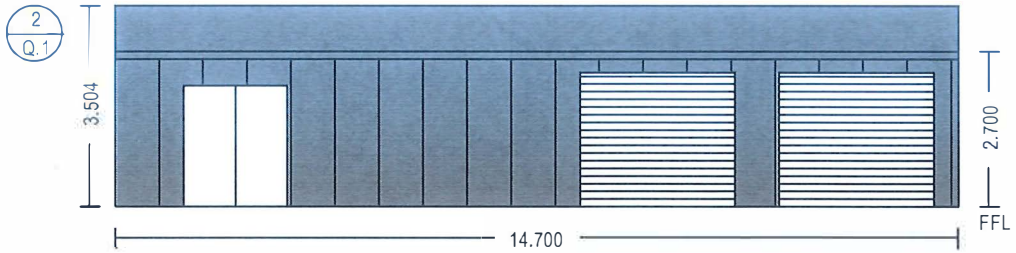
Forces

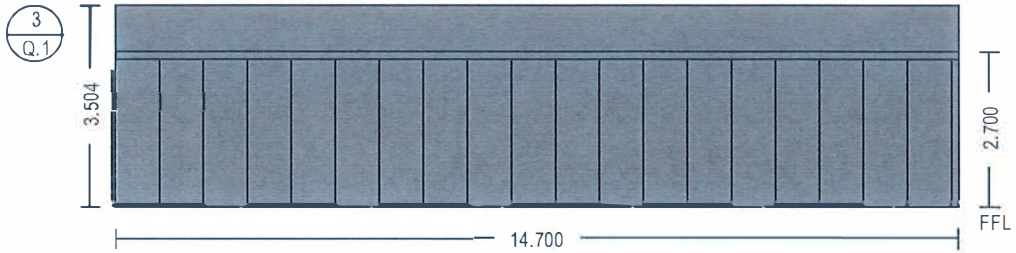
Main Building

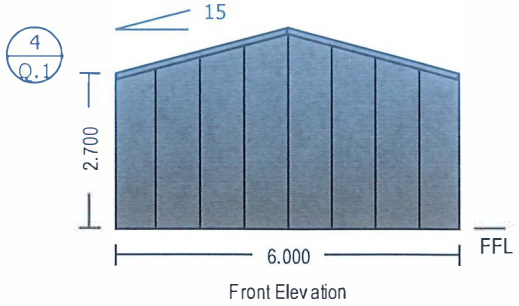
Leeward Wall Cpe	0.30	Cross Wind Bracing Requirements - 181121.xlsx - CrossWind Enclosed - Leeward Wall Cpe
Windward Wall Cpe	0.70	Long Wind Bracing Calculator 140311.xlsx
Cpt	1.00	Full Internal Pressure: Abs(Leeward Wall Cpe) + Windward Wall Cpe
Effective End Wall Area	10.5 m²	Full Internal Pressure: ((Width / 4) * Tan(DegToRad(RoofPitch)) + Height / 2) * Width
Force on End Wall	8.63 kN	Effective End Wall Area * Cpt * Qu
Total Force on End Wall	9.07 kN	Roof Drag Force + Wall Drag Force + End Wall Force
Side Wall Area	39.7 m²	Length * Height
Force on Side Wall	16.30 kN	Side Wall Area * Cpt / 2 * Qu

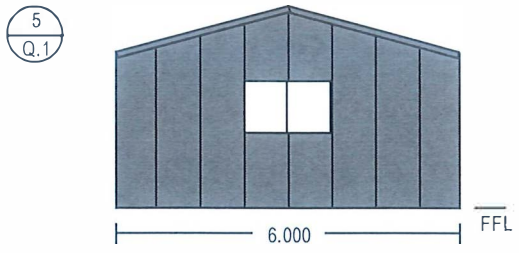
DWG-BC1









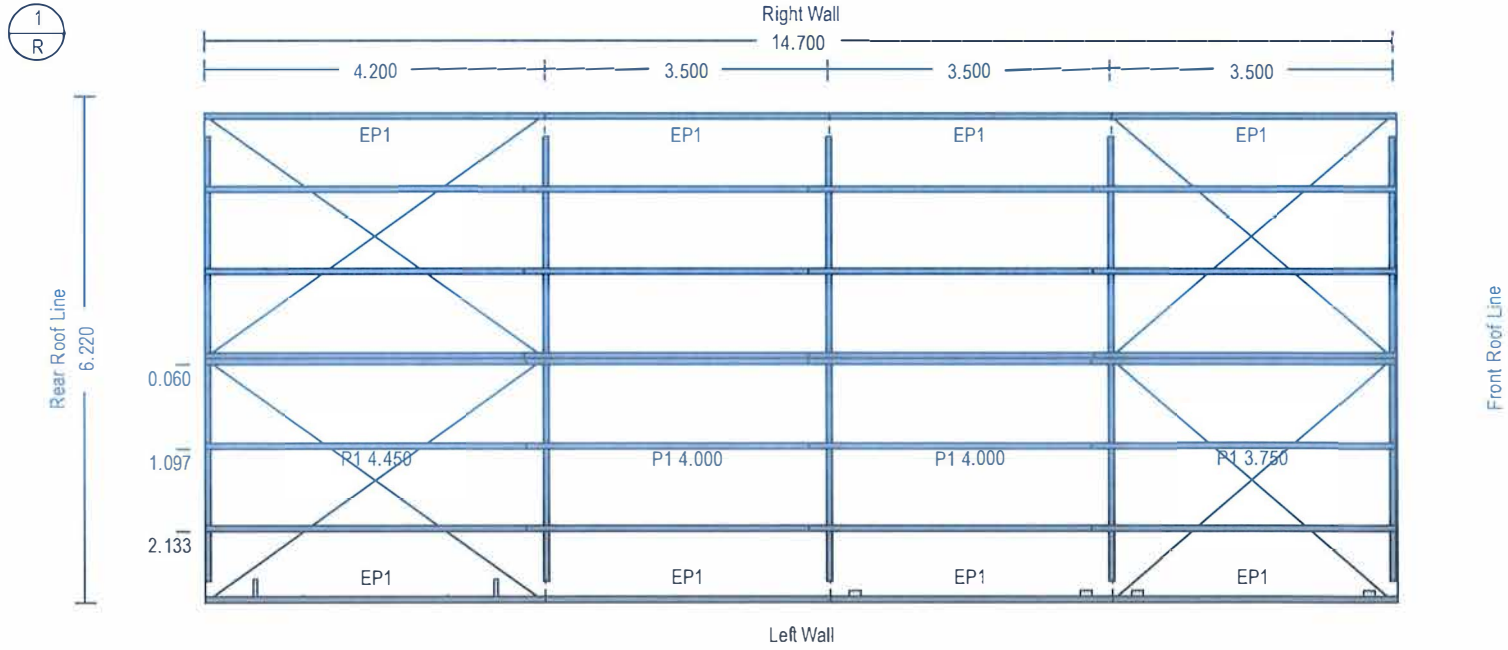


McHUGH STEEL™

CLIENT
Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700
At: 419 Uncle Bills Rd Lake Cowel 2671
For: Lake Cowal Foundation
Approved by: Date:

DRAWING		
QP1	Ref: 30082411050637	NTS

ARCHITECTURAL DRAWINGS

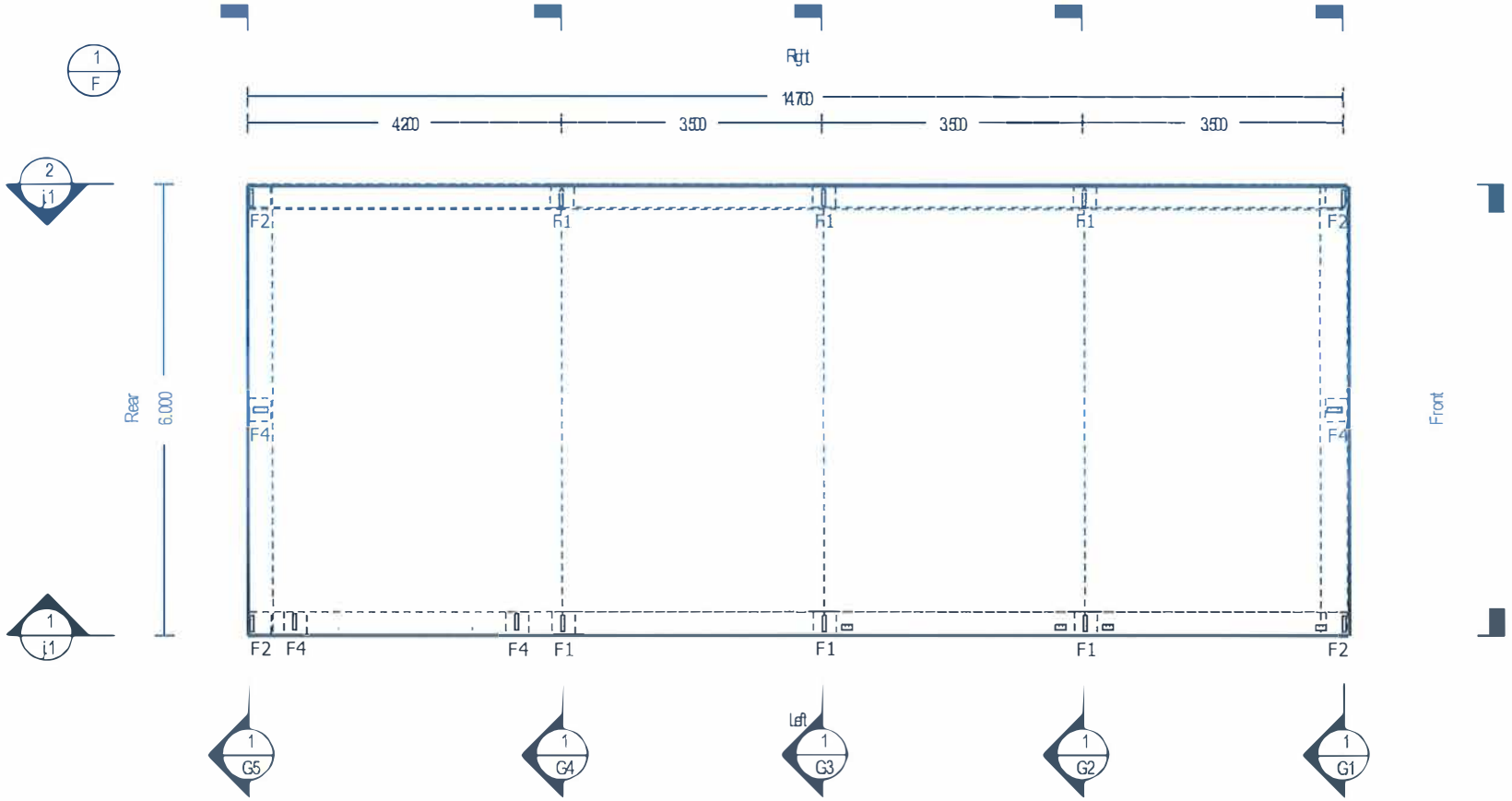


McHUGH STEEL™

CLIENT	
Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700	
At: 419 Uncle Bills Rd Lake Cowel 2671	
For: Lake Cowal Foundation	
Approved by:	Date:

DRAWING		
RP1	Ref: 30082411050637	NTS

Roof Purlin View



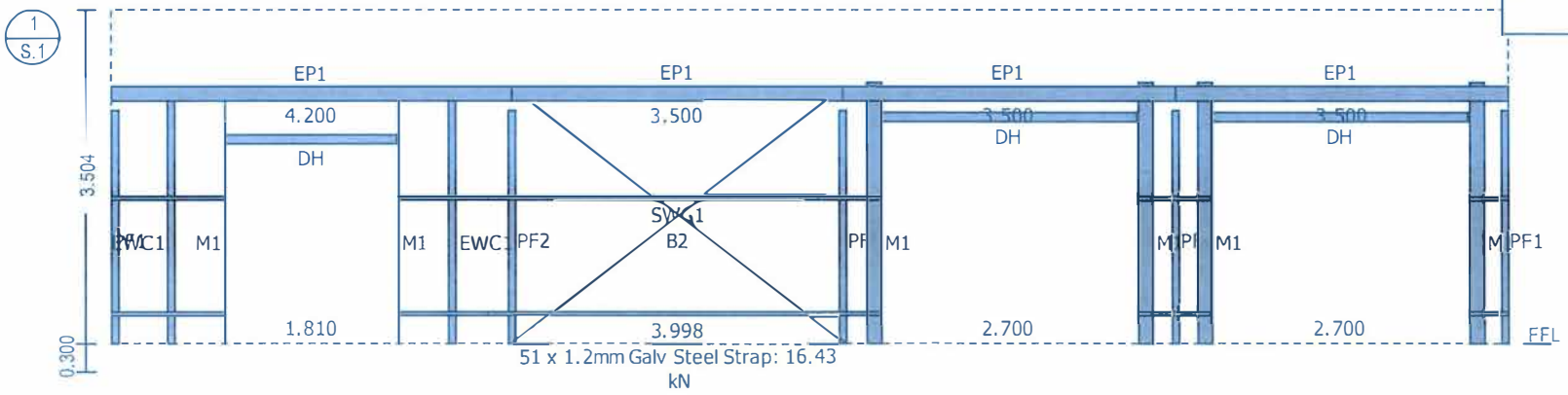
Refer to standard drawing SLAB

McHUGH STEEL™

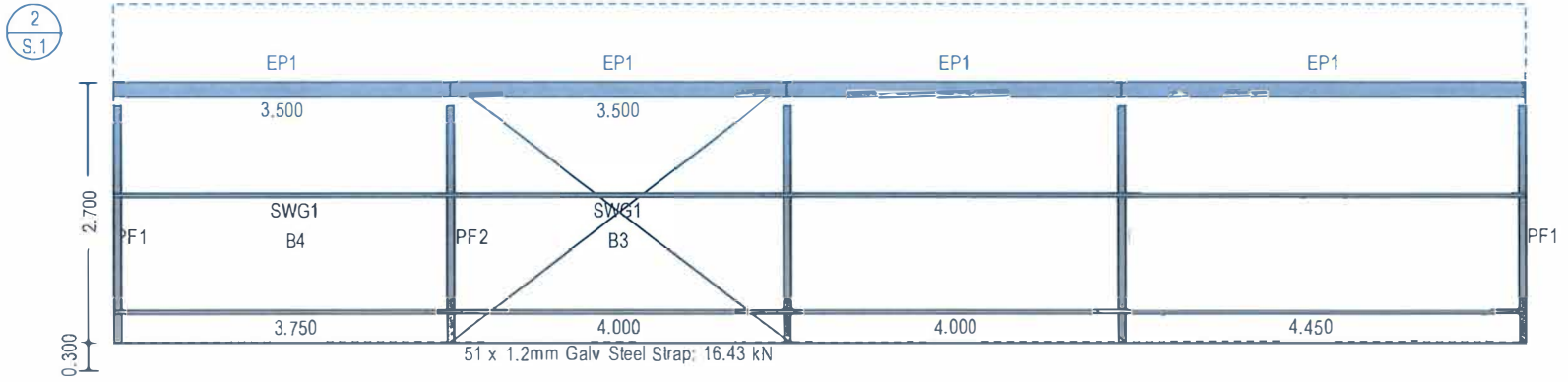
CLIENT
Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700
At: 419 Uncle Bills Rd Lake Cowel 2671
For: Lake Cowal Foundation
Approved by: Date:

DRAWING		
FP1	Ref: 30082411050637	NTS
Footing View		

Long Wind Bracing
Bracing Required: 9.07 kN
Bracing Designed: 32.86 kN



Left Elevation



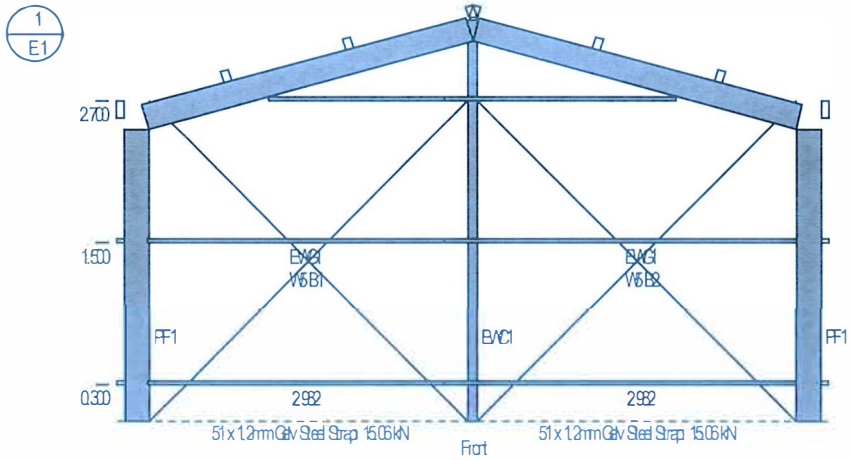
Right Elevation

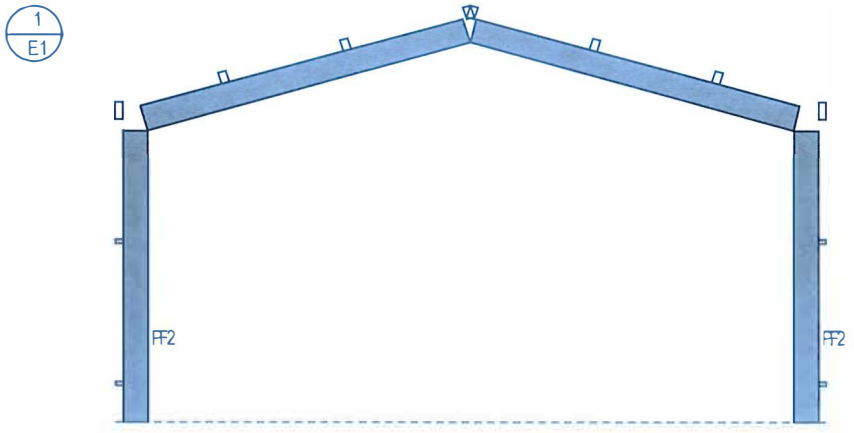
McHUGH STEEL™

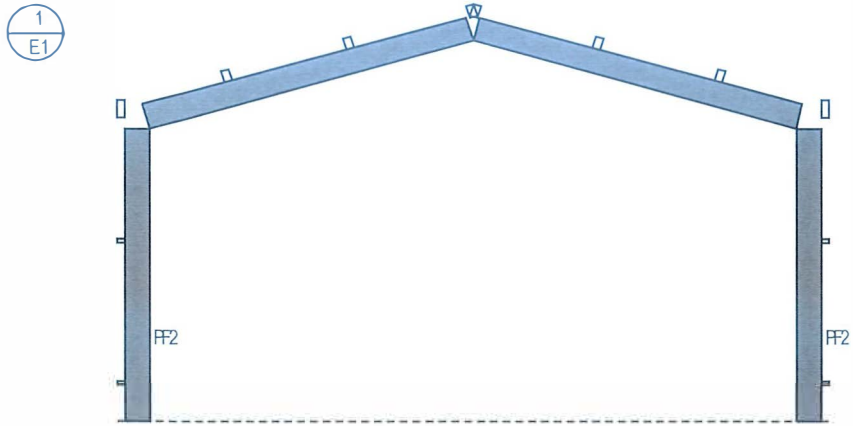
CLIENT		
Portal Frame Gable RoofEnclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700		
At: 419 Uncle Bills Rd Lake Cowel 2671		
For: Lake Cowal Foundation		
Approved by:	Date:	

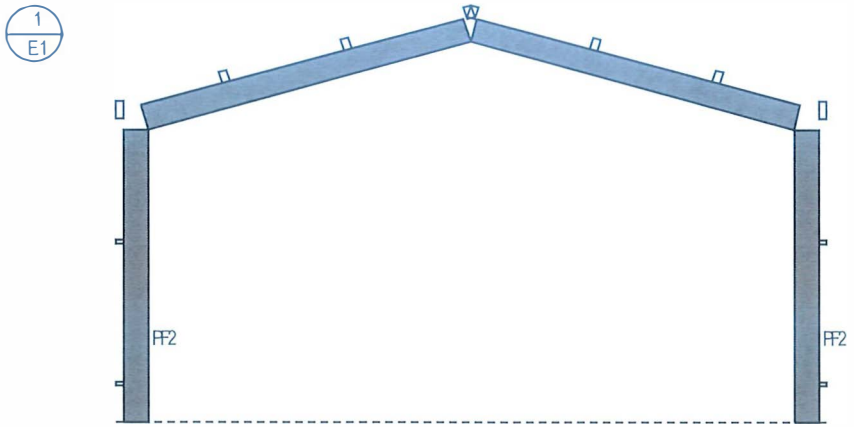
DRAWING		
SW1	Ref: 30082411050637	NTS

Side Wall View



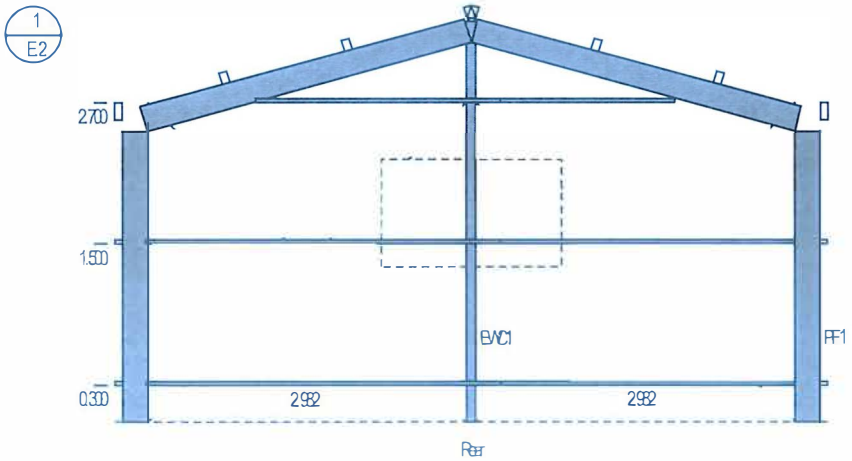






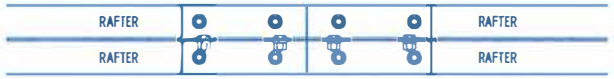
McHUGH STEEL™

CLIENT		DRAWING		
Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700		EW1	Ref: 30082411050637	NTS
At: 419 Uncle Bills Rd Lake Cowel 2671		End Wall View		
For: Lake Cowal Foundation				
Approved by:	Date:			



McHUGH STEEL™	CLIENT	DRAWING
	Portal Frame Gable Roof-Enclosed Domestic Design Vdes=39 m/s (Reg-A) 6.000 x 14.700 x 2.700	EW2 | Ref: 30082411050637 | NTS
	At: 419 Uncle Bills Rd Lake Cowel 2671	End Wall View
	For: Lake Cowal Foundation	
	Approved by: Date:	

APEX BRACKET THICKNESS	
COLUMN SIZE	BRACKET THICKNESS
100	1.9MM
150	2.4MM
200	2.4MM
250	3.0MM
300	3.0MM
340	3.0MM
350	3.0MM
400	3.0MM

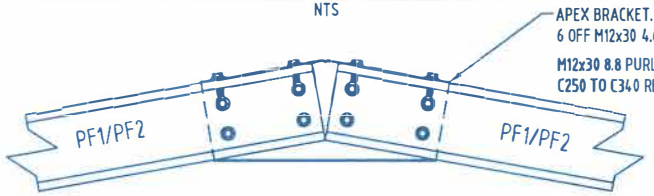


APEX CONNECTION DETAIL, PLAN VIEW - DOUBLE

NTS

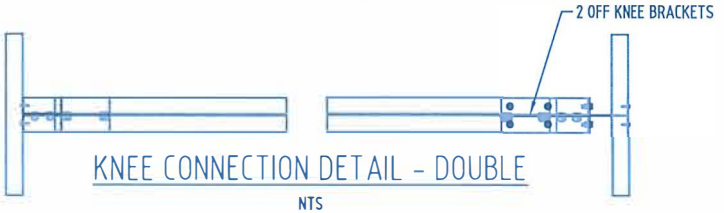
APEX CONNECTION DETAIL, PLAN VIEW - SINGLE

NTS



APEX CONNECTION DETAIL - ELEVATION

NTS

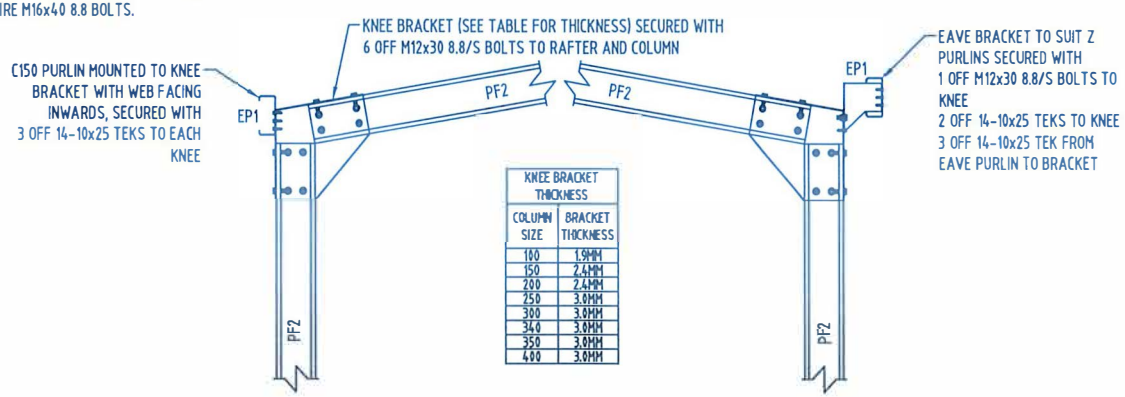


KNEE CONNECTION DETAIL - DOUBLE

NTS

KNEE CONNECTION DETAIL - SINGLE

NTS



KNEE BRACKET THICKNESS	
COLUMN SIZE	BRACKET THICKNESS
100	1.9MM
150	2.4MM
200	2.4MM
250	3.0MM
300	3.0MM
340	3.0MM
350	3.0MM
400	3.0MM

KNEE CONNECTION DETAIL

NTS

GENERAL NOTES:
This engineering is suitable for building class 6, 7, 8 or 10 structures.
All dimensions are in millimetres and to be checked prior to commencement of work with any discrepencies being referred to the supplier.

WIND LOADING:
Wind loadings in accordance with AS1170.2-2011 (Building Imp Cat 2)

CLADDING & FRAMING NOTES:
Roof cladding is 5 rib Trim profile or Corrugated 0.47 TCT.
Wall cladding is 5 rib Trim profile or Corrugated 0.42 TCT.
Minimum roof pitch is 5 degrees. Maximum roof pitch is 25 degrees.

BRACING:
1 off 30 x 1.0mm G500 Metal Strap bracing to be provided in every roof bay, including any attached awning unless notified otherwise. To be secured with 1 off 12-14x20 Tek screws at each purlin and 3 off 12-14x20 Tek screws at each end.

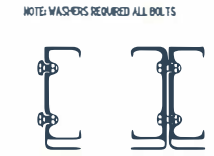
STEELWORK:
Relevant Australian codes to be adhered to are: AS4100 Steel Structures Code (limited states design).
AS4600 Cold Formed Steel Structures Code (limited states design).
AS3566 Screws - Self Drilling - Building & Construction.

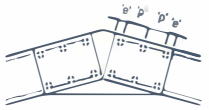
TEK SCREWS:
Screw length x No. per sheet

	Type	Corrugated	Trimclad	Comments
Roof Screws (Hex + Neo)	14-10	42x5	50x5	up to 59m/s

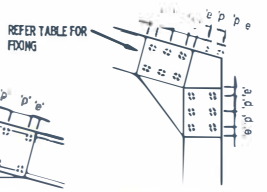
Wall Screws: 10-16x16 hex bare, 4 fasteners per sheet each girt.
Frame Screws: 12-14x20 hex tek bare, 3 fasteners per end and intersection.
Tek screws must be applied in accordance with the manufactures instruction - no responsibility taken for over stressing of screws.

KNEE & APEX FIXING TABLE						
SECTION	PLATE TYPE	BOLT GRADE	COLUMN FIXING	RAFTER FIXING	'e'	'p'
C100	1.9mm G540	GR 4.6	4 X M12 BOLTS	4 X M12 BOLTS	35mm	150mm
C150	2.4mm G540	GR 4.6	4 X M12 BOLTS	4 X M12 BOLTS	35mm	150mm
C200	2.4mm G450	GR 4.6	4 X M16 BOLTS	4 X M16 BOLTS	35mm	150mm
C250	3.0mm G450	GR 4.6	6 X M16 BOLTS	6 X M16 BOLTS	35mm	150mm
C300	3.0mm G450	GR 8.8	6 X M16 BOLTS	6 X M16 BOLTS	35mm	250mm
C350	3.0mm G450	GR 8.8	8 X M16 BOLTS	8 X M16 BOLTS	35mm	150mm





APEX PLATE DETAIL



KNEE PLATE DETAIL

McHUGH STEEL
Sheds and Roofing for You!
Phone: (07) 4153 6588 Fax: (07) 4153 6981
Email: rob@mchughsteel.com.au

Consulting Engineer: JOHN TOWLER (RPEQ 4562)

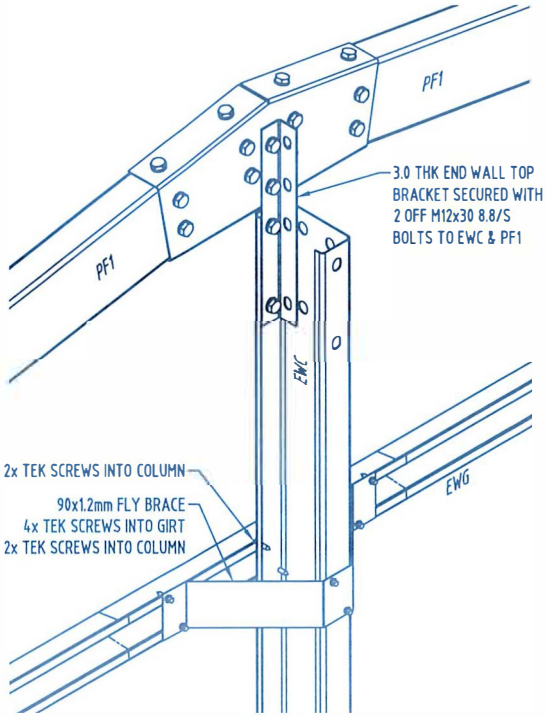
REV	WORK DONE	BY	DATE
15	NOTES & DETAILS UPDATED	JR	01/12/16
14	NO CLEATS FOR Z100 NOTE ON PG2	JR	10/05/16
13	REVISED TO SUIT NEW DESIGN	JR	04/02/16
12	REMOVE SLAB & MULLION DETAILS	JR	10/12/15
0	ORIGINAL RELEASE	CB	12/06/14

OTHER INFORMATION:
THIS DETAIL PAGE IS TO BE USED IN CONJUNCTION WITH ALL DRAWINGS SPECIFIED: DWGMT1 & PROFILE INFO FORM

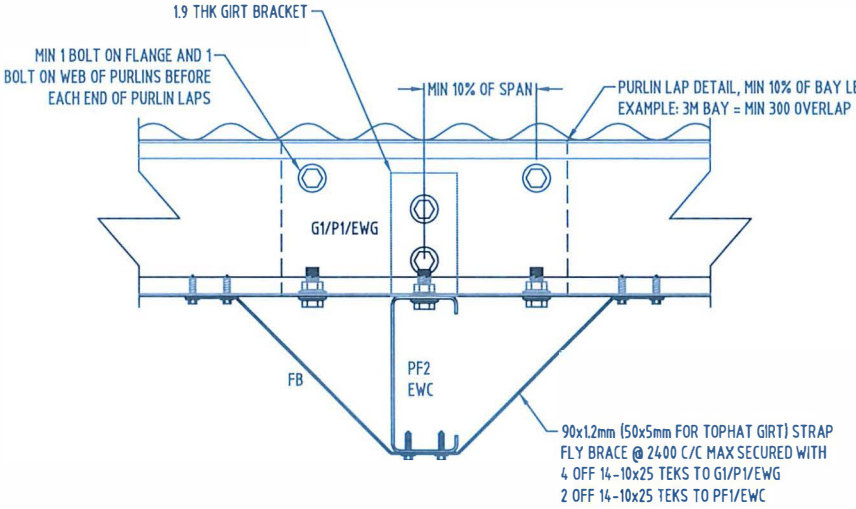
DRAWN: CODY BALSDON | A3

TITLE: NOTES & CONNECTION DETAILS FOR RIVIERA DESIGNS GABLE PORTAL FRAME SHEDS, NO TIES

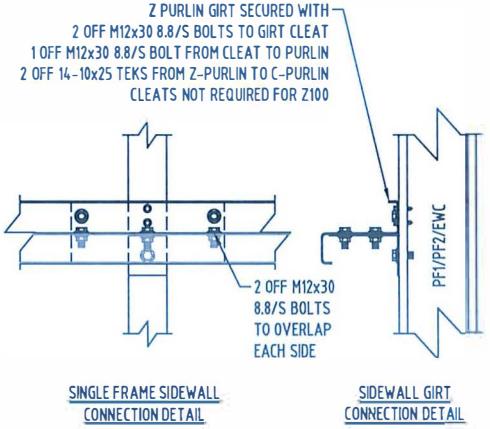
DRAWING NUMBER: DWG1264NT-PG1 | DATE: 12/06/2014 | REV 15



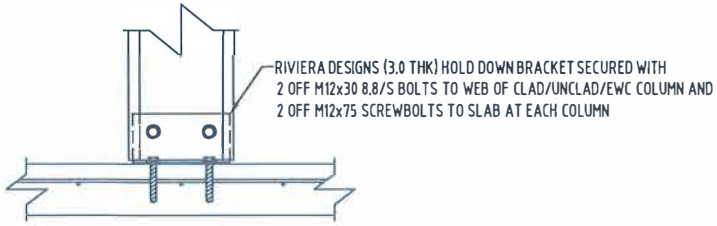
END WALL COLUMN DETAILS



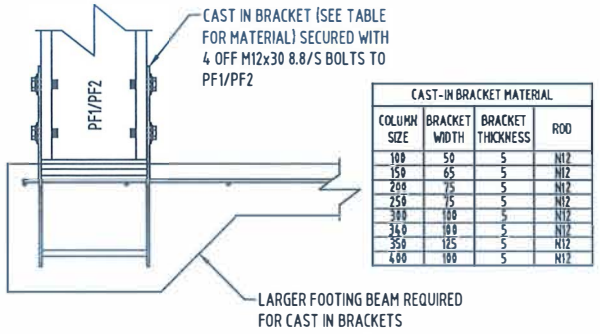
FLY BRACE & PURLIN OVERLAP PLAN VIEW



Z PURLIN/GIRT CONNECTION & OVERLAP SIDE VIEW

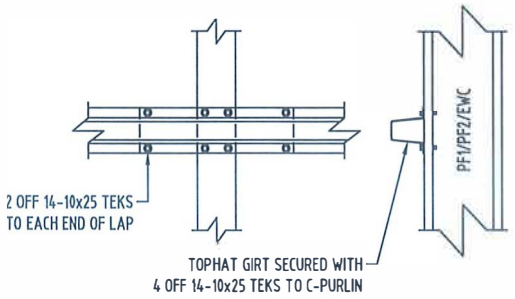


TYPICAL CLAD/UNCLAD/EWC COLUMN BOLT DOWN DETAIL



CAST-IN BRACKET MATERIAL			
COLUMN SIZE	BRACKET WIDTH	BRACKET THICKNESS	ROD
100	50	5	M12
150	65	5	M12
200	75	5	M12
250	75	5	M12
300	100	5	M12
340	100	5	M12
350	125	5	M12
400	100	5	M12

TYPICAL CAST IN HOLD DOWN DETAIL



TOP HAT GIRT/PURLIN CONNECTION & OVERLAP SIDE VIEW

NOTE: REFER TO DWGFP1(FOOTING) FOR LOCATIONS OF EDGEBEAMS AND FOOTINGS

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Sheds and Roofing for You!
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Email: rob@mchughsteel.com.au

Consulting Engineer: JOHN TOWLER (RPEQ 4562)

REV	WORK DONE	BY	DATE
15	NOTES & DETAILS UPDATED	JR	01/12/16
14	NO CLEATS FOR Z100 NOTE ON PG2	JR	10/05/16
13	REVISED TO SUIT NEW DESIGN	JR	04/02/16
12	REMOVE SLAB & MULLION DETAILS	JR	10/12/15
0	ORIGINAL RELEASE	CB	12/06/14

OTHER INFORMATION:
THIS DETAIL PAGE IS TO BE USED IN CONJUNCTION WITH ALL DRAWINGS SPECIFIED: DWGMT1 & PROFILE INFO FORM

DRAWN: CODY BALSDON | A3

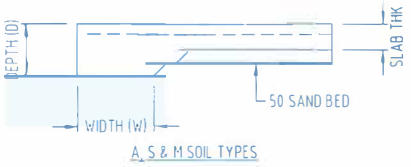
TITLE: CONNECTION DETAILS FOR RIVIERA DESIGNS GABLE PORTAL FRAME SHEDS, NO TIES

DRAWING NUMBER: DWG1264NT-PG2 | DATE: 12/06/2014 | REV 15

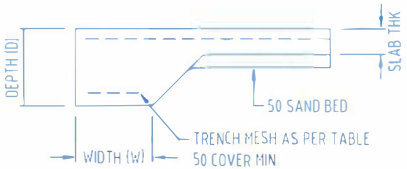
EDGE BEAM AND SLAB SCHEDULE					
SITE CLASS	DEPTH	WIDTH	SLAB MESH	TRENCH MESH	MAX INTERNAL BEAM SPACING "X"
A	200	300	MIN SL62	-	-
S	200	300	MIN SL62	-	-
M	200	300	MIN SL62	-	-
M-D	300	300	MIN SL62	-	-
H1	300	300	MIN SL62	3-11TM	-
H1-D	400	400	MIN SL62	3-11TM	-
E	500	500	MIN SL62	3x Y12TM	5.0m
P	500	500	MIN SL62	3x Y12TM	5.0m

MINIMUM REINFORCEMENT LAPS			
MEMBER	LAP	MEMBER	LAP
Y12	350	F8TM MESH	650 425 END 225 SIDE

NOTE: FOR CENTRAL WEST NSW REGION ONLY



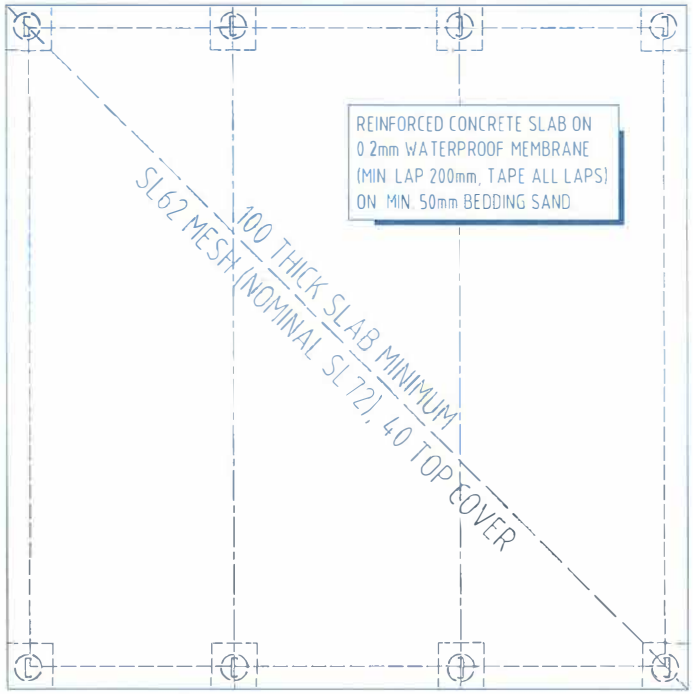
A, S & M SOIL TYPES



H & HD SOIL TYPES

EB - EDGE BEAM DETAIL

INDICATIVE ONLY



TYPICAL SLAB DETAIL

INDICATIVE ONLY

GENERAL NOTES:

1. THESE DRAWINGS ARE TO BE READ IN IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER OR DESIGNER.
2. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
3. WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH RELEVANT CURRENT AUSTRALIAN STANDARD CODES AND LOCAL AUTHORITY BY-LAWS.

FOUNDATIONS:

1. THE FOUNDATIONS HAVE BEEN DESIGNED FOR A MINIMUM BEARING PRESSURE OF 100kPa IN MEDIUM DENSE SILT/SAND OR STIFF SILTY SANDY CLAY.
2. ALL EXCAVATIONS TO BE INSPECTED BY THE INSPECTOR BEFORE ANY CONCRETE IS POURED.
3. ANY CONTROLLED FILL MATERIAL UNDER SLAB ON GROUND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH AS2870 6.4 AND AS3789. COMPACTION TEST TO BE IN ACCORDANCE WITH AS1289.
4. SITE CLASSIFICATION TO BE DETERMINED BY THE BUILDER / CERTIFIER FOR DETERMINATION OF FOOTING DIMENSIONS AND BEAM SPACINGS. SLAB & BEAM ARRANGEMENTS ONLY REQUIRED UNDER ENDUROFRAME STEEL-FRAMED WALLS AND TRUSSES - DESCRIBED AS CLAD FRAMED.

FOUNDATIONS:

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF AS3600.
2. THE CHARACTERISTIC COMPRESSIVE STRENGTH OF THE CONCRETE AT 28 DAYS SHALL BE F'c =20 MPa MINIMUM.
3. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE: INTERNAL - 20mm, EXTERNAL - 30mm, FOOTINGS - 50mm.
4. ALL CONCRETE TO BE 'NORMAL' CLASS IN ACCORDANCE WITH AS3600.
5. MAXIMUM AGGREGATE SIZE TO BE 20mm UNLESS OTHERWISE SHOWN.
6. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

REINFORCEMENT:

1. STEEL REINFORCING AND REINFORCING FABRIC SHALL COMPLY WITH AS/NZS 4671.
2. ALL REINFORCING TO BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAINS, SPACERS OR SUPPORT BARS.
3. SPLICES IN REINFORCEMENT TO BE MADE IN POSITION SHOW OR AS OTHERWISE APPROVED BY THE INSPECTOR. WHERE THE LAP LENGTH IS NOT SHOW IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.
4. LAPS IN MESH TO BE THE SPACING OF TRANSVERSE WIRE PLUS 25mm UNLESS OTHERWISE SHOWN.

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Consulting Engineer: JOHN TOWLER (RPEQ 4562)

REV	WORK DONE	BY	DATE
4	PIER DETAIL MOVED TO SEPARATE DRAWING	JR	18/05/16
3	PIER DETAIL REVISED	JR	03/03/16
2	SLAB MESH NOTES CHANGED	JR	02/03/16
1	CHANGED DEPTH OF A, S, M FROM 300 TO 200	JR	15/12/15
0	ORIGINAL RELEASE	JR	15/12/15

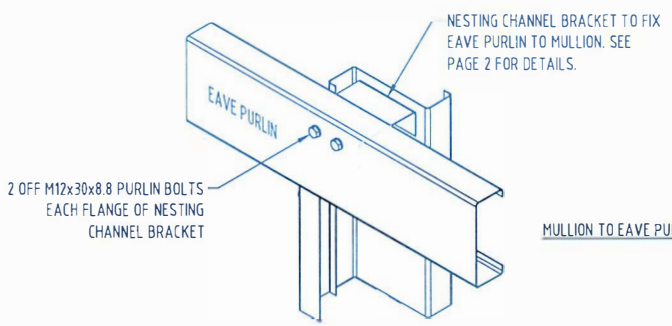
OTHER INFORMATION:

WIND DESIGN:

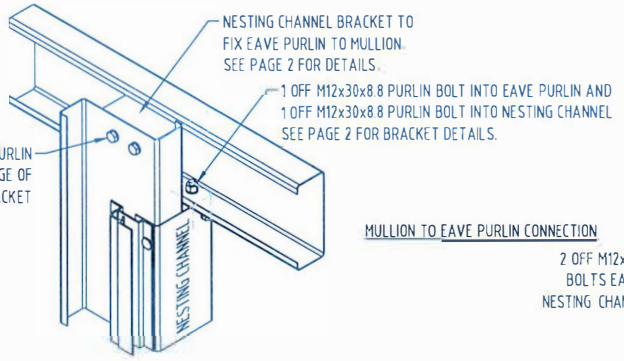
DRAWN: J. RADLOFF

TITLE: STANDARD DOMESTIC SLAB DETAIL
FOR CENTRAL WEST NSW REGION ONLY

DRAWING NUMBER: DWG-SLAB-DOM | DATE: 20/10/2016 | REV 4



MULLION TO EAVE PURLIN CONNECTION



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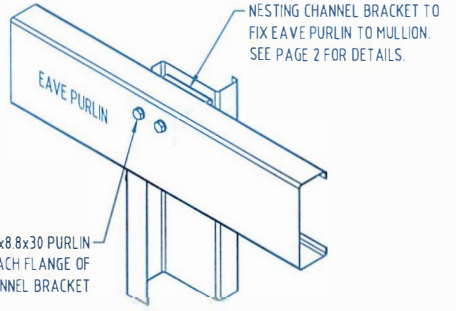

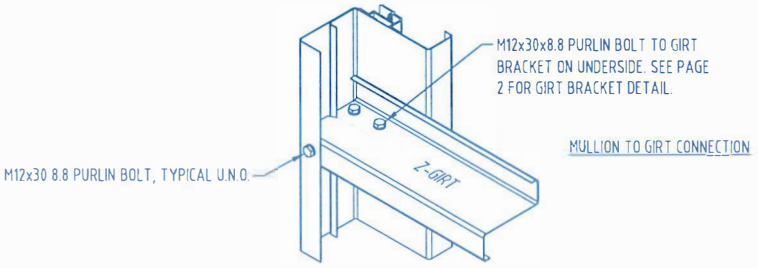

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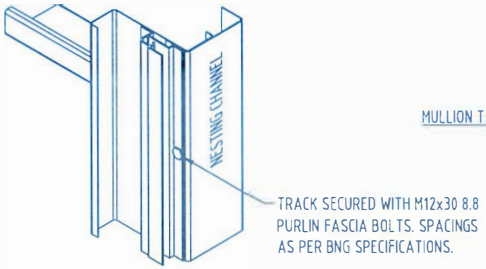

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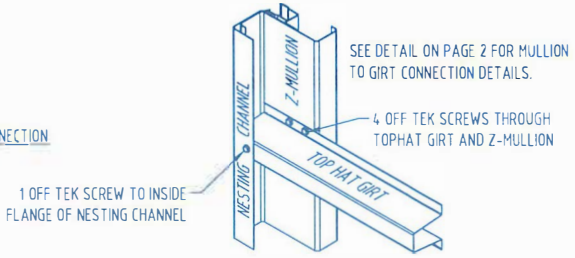
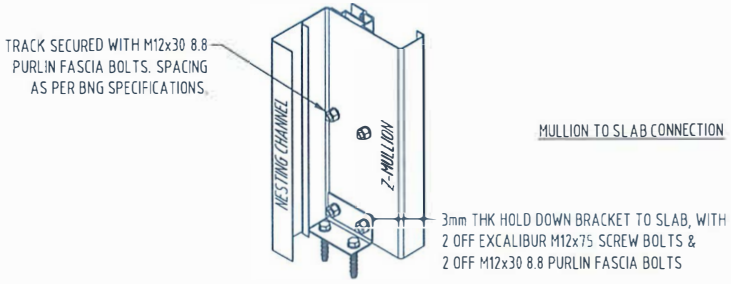
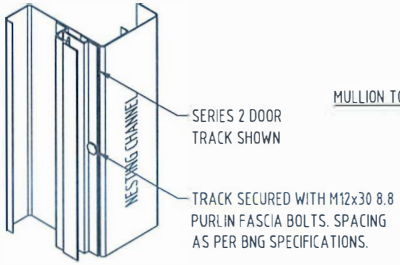
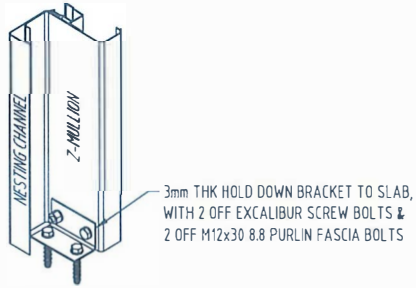




MULLION TO SLAB CONNECTION



MULLION TO SLAB CONNECTION



Z-MULLION WITH Z-GIRT OUTSIDE ISOMETRIC

SCALE 1:10 AT A3

Z-MULLION WITH Z-GIRT INSIDE ISOMETRIC

SCALE 1:10 AT A3

Z-MULLION WITH TOP HAT GIRT INSIDE ISOMETRIC

SCALE 1:10 AT A3

NOTE: FOR MULLION SIZES REFER TO DWG-MT1 MEMBER TABLE

SEE PAGE 2 (RADMUL-CYC-PG2) FOR ALL DETAIL

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Consulting Engineer: JOHN TOWLER (RPEQ 4562)

REV	WORK DONE	BY	DATE
0	Original Release	JR	04/02/16

OTHER INFORMATION:

WIND DESIGN:

DRAWN: J. RADLOFF

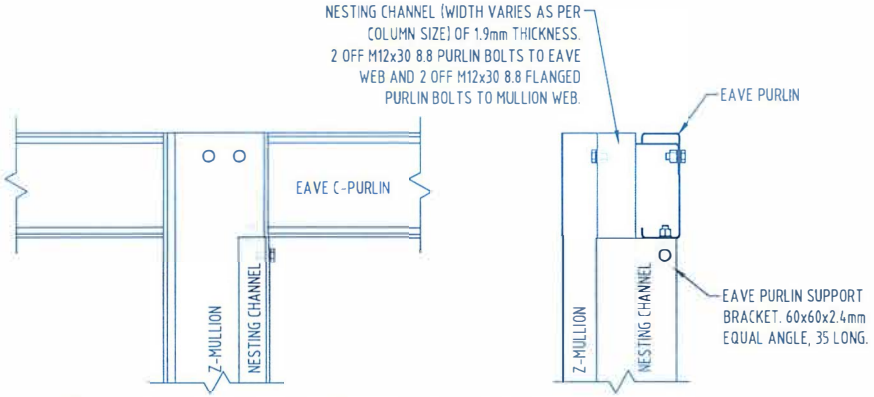
A3

TITLE: RAD MULLION DETAILS
ISOMETRIC GENERAL ASSEMBLY

DRAWING NUMBER: RADMUL-CYC-PG1

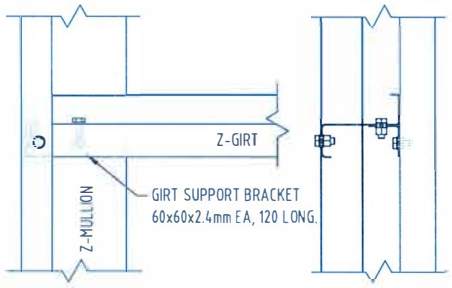
DATE: 04/02/2016

REV 0



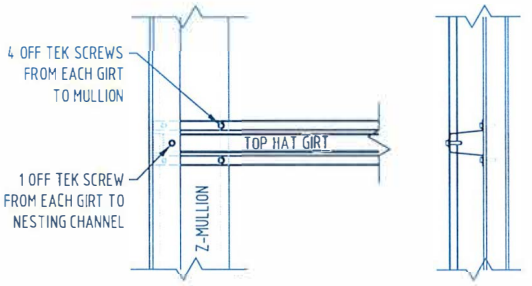
RAD MULLION AND NESTING TO EAVE PURLIN DETAIL

NTS



RAD MULLION TO Z-GIRT DETAIL

NTS



RAD MULLION TO TOP HAT GIRT DETAIL

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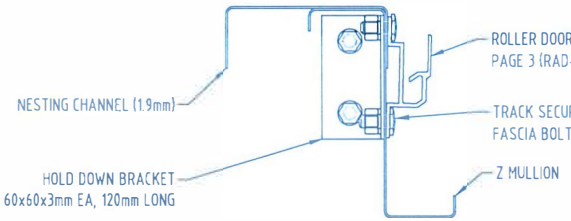
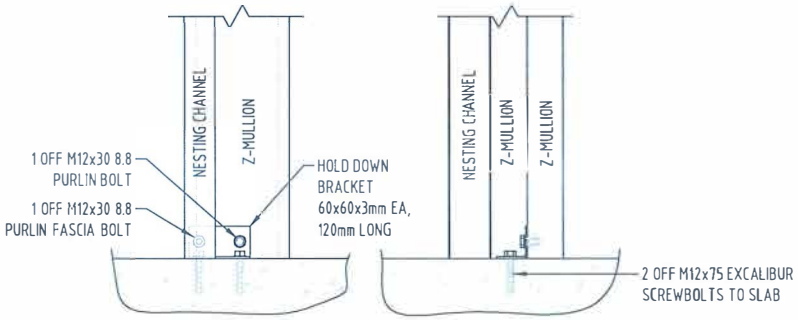


RAD MULLION TO SLAB PLAN VIEW

NTS



RAD MULLION TO SLAB DETAIL

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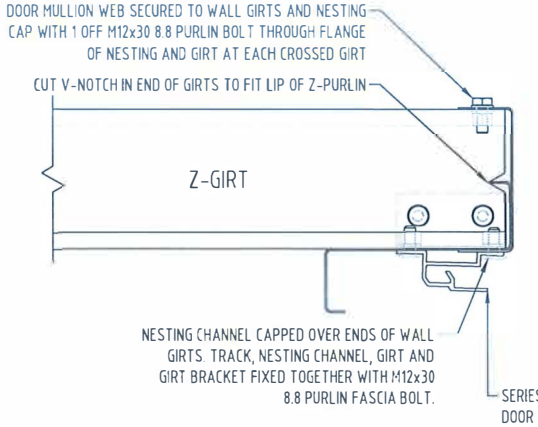
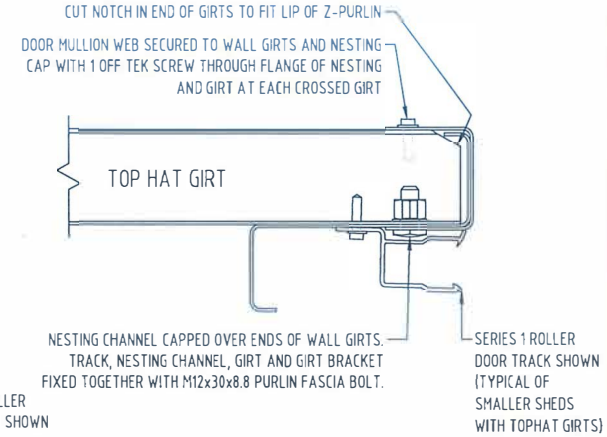


RAD MULLION TO Z-GIRT PLAN VIEW

NTS



RAD MULLION TO TOPHAT GIRT PLAN VIEW

NTS

NOTE: FOR MULLION SIZES REFER TO DWG-MT1 MEMBER TABLE

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REV	WORK DONE	BY	DATE
0	Original Release	JR	04/02/16

OTHER INFORMATION:

WIND DESIGN:

DRAWN: J. RADLOFF | A3

TITLE: RAD MULLION DETAILS
CONNECTION DETAILS

DRAWING NUMBER: RADMUL-CYC-PG2 | DATE: 04/02/2016 | REV 0