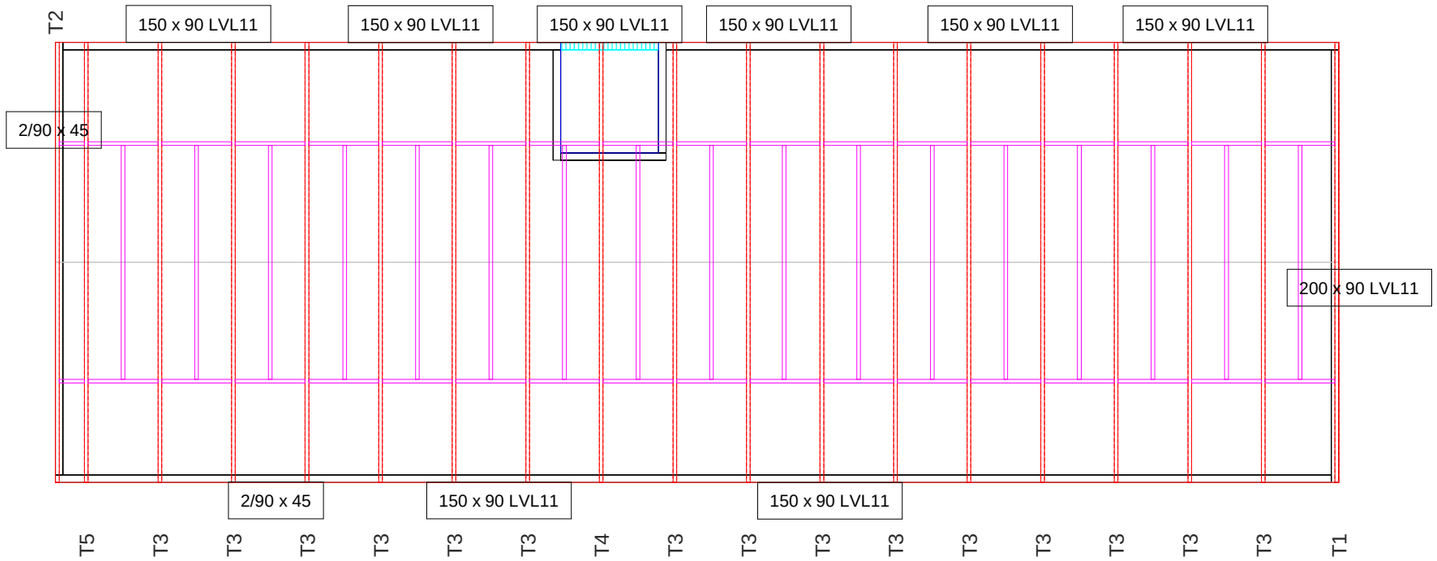
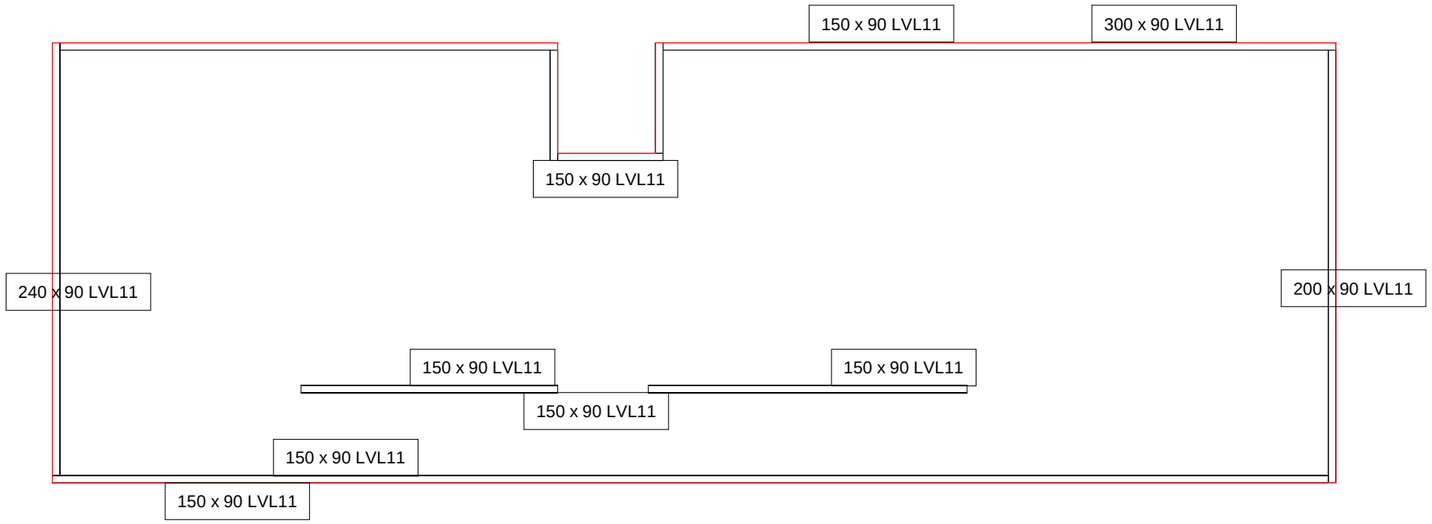




If Ceiling Battens Are Not Being Direct Fixed To The Bottom Chord Of The Truss, Bottom Chord Restraints Will Be Required At 1800mm Crs Max.

All Lintels Designed As Per Truss Loadings.
Lintel Design Valid Only With Truss Tech Supplied Lintels.
All Lintels Are Designed As SG8 Unless Otherwise Stated.

All Walls Shown On Layout Are Loadbearing.
Slab Thickening To Be Designed By Others.
Refer Slab Thickening Detail Sheet. Sheet 3
All Other Truss Loads On Internal Walls Are Under 8Kn.

FTMA NEW ZEALAND

TRUSS TECH

BUILDABLE LAYOUT

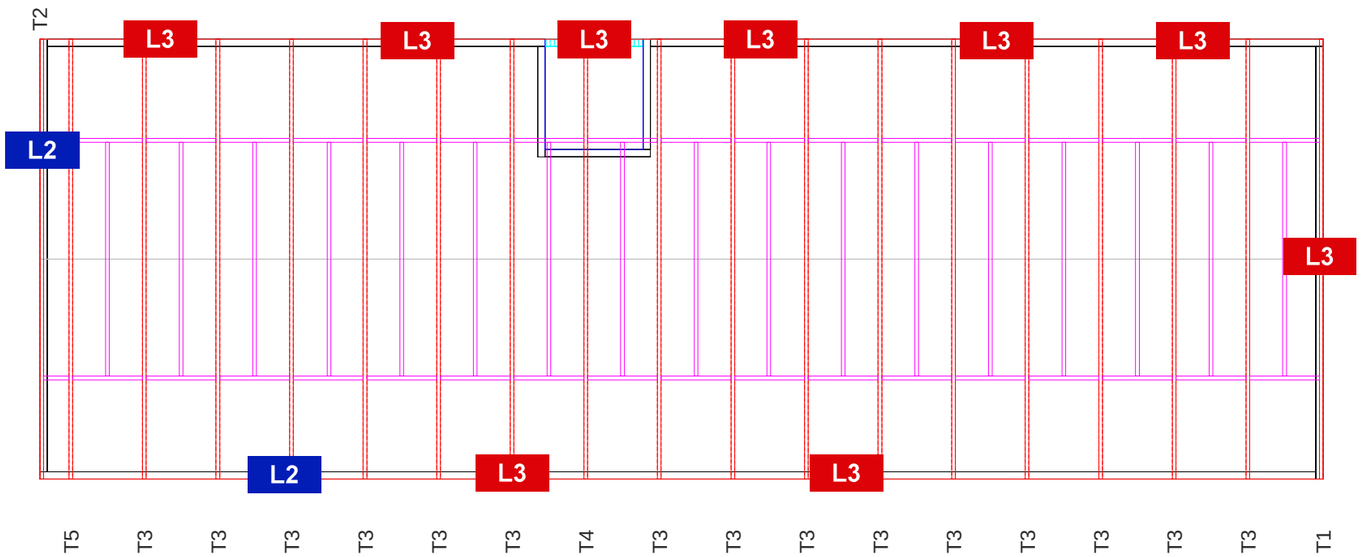
Customer: NZCAD
Site Address: Creighton
Northlake Development

Job Details:

Roofing:	Longrun
Pitch:	35.00 Deg.
Truss Spacing:	900
Design Wind Velocity:	44.00 m/s (Ult.)
Detailer:	Liam Robertson

Job Ref: 160719P
Scale: 1:75
Date: Tuesday, 02 August 2016
Sheet: 1 Of 5

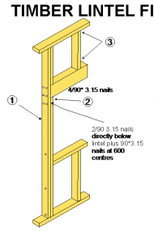
pryda



TIMBER LINTEL FIXING - 1.4KN

Consent Doc. Ref. L1

L1



(1) For trimming stud thickness refer to Table 8.5 NZS3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90*3.15 diam. nails

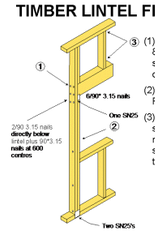
(2) Refer to Pryda Wallplate to Stud Joint Fixing Guide

(3) Where a doubling stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.

TIMBER LINTEL FIXING - 2.8KN

Consent Doc. Ref. L2

L2



(1) For trimming stud thickness refer to Table 8.5 NZS3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90*3.15 diam. nails

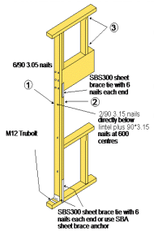
(2) Refer to Pryda Wallplate to Stud Joint Fixing Guide

(3) Where a doubling stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.

TIMBER LINTEL FIXING - 8.0KN

Consent Doc. Ref. L3

L3



(1) For trimming stud thickness refer to Table 8.5 NZS3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90*3.15 diam. nails

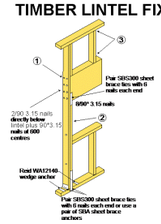
(2) Refer to Pryda Wallplate to Stud Joint Fixing Guide

(3) Where a doubling stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.

TIMBER LINTEL FIXING - 14KN

Consent Doc. Ref. L4

L4

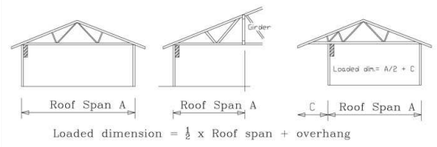


(1) For trimming stud thickness refer to Table 8.5 NZS3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90*3.15 diam. nails

(2) Refer to Pryda Wallplate to Stud Joint Fixing Guide

(3) Where a doubling stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.

LOADED DIMENSION DETERMINATION



TRUSS TECH	LINTEL FIXING DETAILS	Job Details:	Job Ref: 160719P
	Customer: NZCAD	Roofing: Longrun	Scale: 1:75
	Site Address: Creighton Northlake Development	Pitch: 35.00 Deg.	Date: Tuesday, 02 August 2016
		Truss Spacing: 900	Sheet: 2 Of 5
		Design Wind Velocity: 44.00 m/s (Ult.)	
		Detailer: Liam Robertson	

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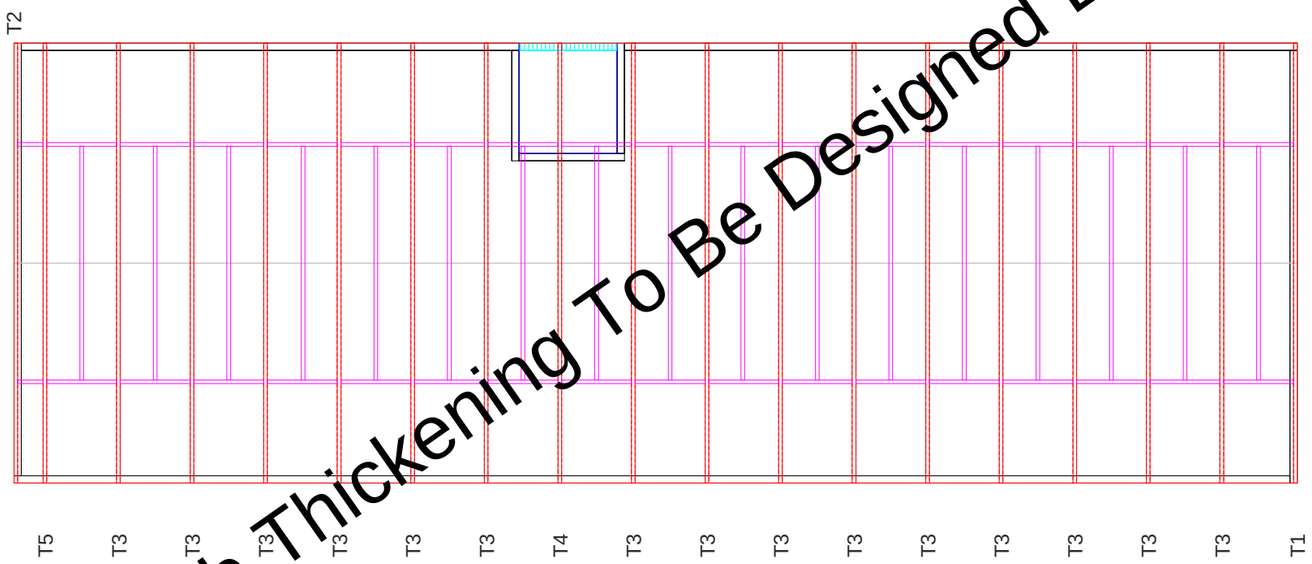
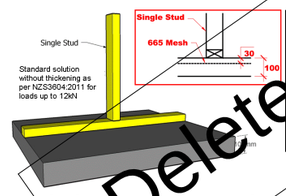


Slab Thickening To Be Designed By Others

INTERNAL CONCRETE FOUNDATION SUPPORT REQUIREMENTS - 12KN

Consent Doc. Ref. LB1



12kN load		SG8
HEIGHT m	Stud size mm	No.of studs under load
2.4	90 x 45	1
2.7	90 x 45	2
3	90 x 45	2

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Minimum Requirement For Internal Loadbearing Walls

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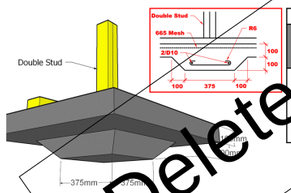
INTERNAL CONCRETE FOUNDATION SUPPORT REQUIREMENTS - 24KN

Consent Doc. Ref. LB2



24kN load		SG8
HEIGHT m	Stud size mm	No.of studs under load
2.4	90 x 45	2
2.7	90 x 45	2
3	90 x 45	3

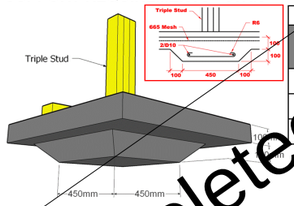
pryda

LB2

Deleted

INTERNAL CONCRETE FOUNDATION SUPPORT REQUIREMENTS - 36KN

Consent Doc. Ref. LB3



36kN load		SG8
HEIGHT m	Stud size mm	No.of studs under load
2.4	90 x 45	3
2.7	90 x 45	3
3	90 x 45	4

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LB3

Deleted

FTMA NEW ZEALAND

Design Assumptions
1. Buildings within NZS3604:2011 limits- truss spans within 12m.
2. Truss spacing no greater than 1200.
3. Timber shown in studs MSG8 or better.
4. Soil conditions 300kPa ult. bearing capacity or better as per NZS3604:2011 Ch.3.
5. Where 2 or more studs are required, the concentrated load face will be within 50mm of the centre of support.
6. The number of top plates to be determined from NZS3604:2011

TRUSS TECH

SLAB THICKENING DETAILS

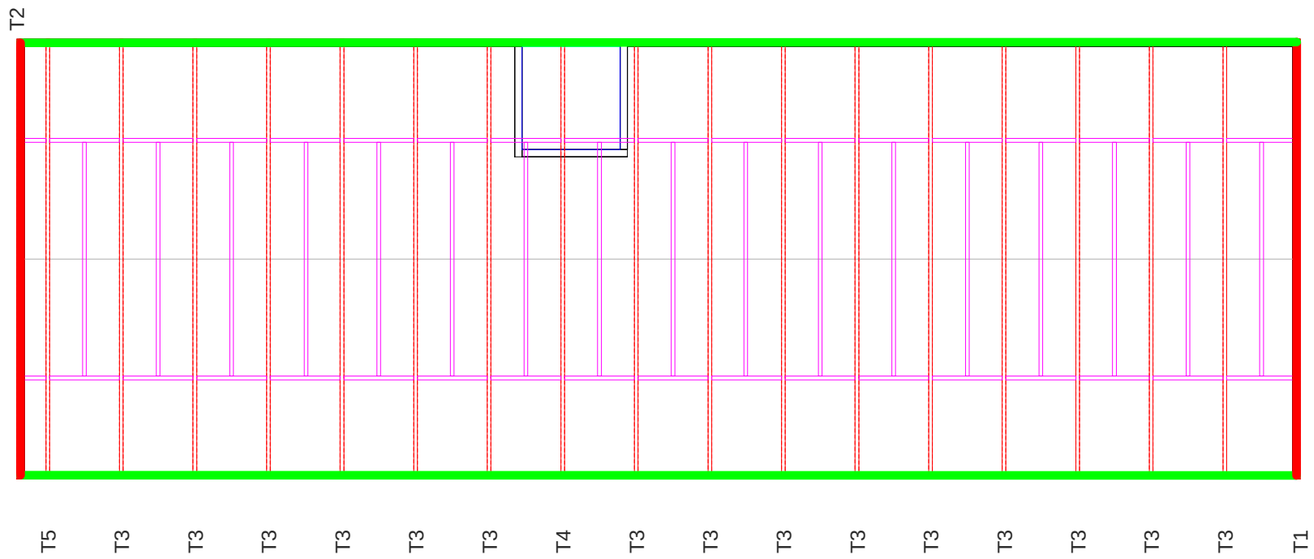
Customer: NZCAD
Site Address: Creighton
Northlake Development

Job Details:

Roofing:	Longrun
Pitch:	35.00 Deg.
Truss Spacing:	900
Design Wind Velocity:	44.00 m/s (Ult.)
Detailer:	Liam Robertson

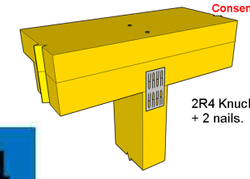
Job Ref: 160719P
Scale: 1:75
Date: Tuesday, 02 August 2016
Sheet: 3 Of 5

pryda



WALLPLATE TO STUD - 1.7KN

Consent Doc. Ref. TP1



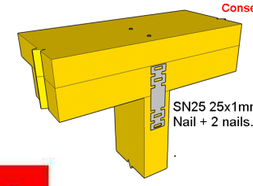
2R4 Knuckle Nailplate + 2 nails.

pryda

TP1

WALLPLATE TO STUD - 2.5KN

Consent Doc. Ref. TP2

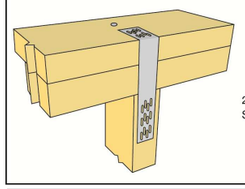


SN25 25x1mm Strap Nail + 2 nails.

pryda

TP2

TOP PLATE TO STUD - 6.0kN Consent Doc. Ref. TP3

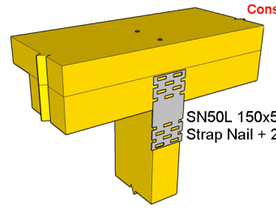


2 End Nails + SST Stud Tie

pryda

WALLPLATE TO STUD - 4.4KN

Consent Doc. Ref. TP3



SN50L 150x50x1mm Strap Nail + 2 nails.

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TP3

Loaded Dimension (m)	Light Weight Roof Wind Zone				
	L	M	H	VH	EH
2.0	TP0	TP0	TP1	TP2	TP3
3.0	TP0	TP1	TP2	TP3	TP3
4.0	TP0	TP2	TP3	TP3	TP3
5.0	TP1	TP2	TP3	TP3	TP3
6.0	TP2	TP3	TP3	TP3	TP3

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Design Assumptions
1. Dry wall framing.
2. Framing MSG8 minimum
3. Studs at 600ctrs (reduce load by 33% if 400ctrs).
4. Truss spacing at 900ctrs.

TRUSS TECH

STUD to TOP PLATE FIXING DETAILS

Customer: NZCAD
Site Address: Creighton
Northlake Development

Job Details:
Roofing: Longrun
Pitch: 35.00 Deg.
Truss Spacing: 900
Design Wind Velocity: 44.00 m/s (Ult.)
Detailer: Liam Robertson

Job Ref: 160719P
Scale: 1:75
Date: Tuesday, 02 August 2016
Sheet: 4 Of 5

pryda

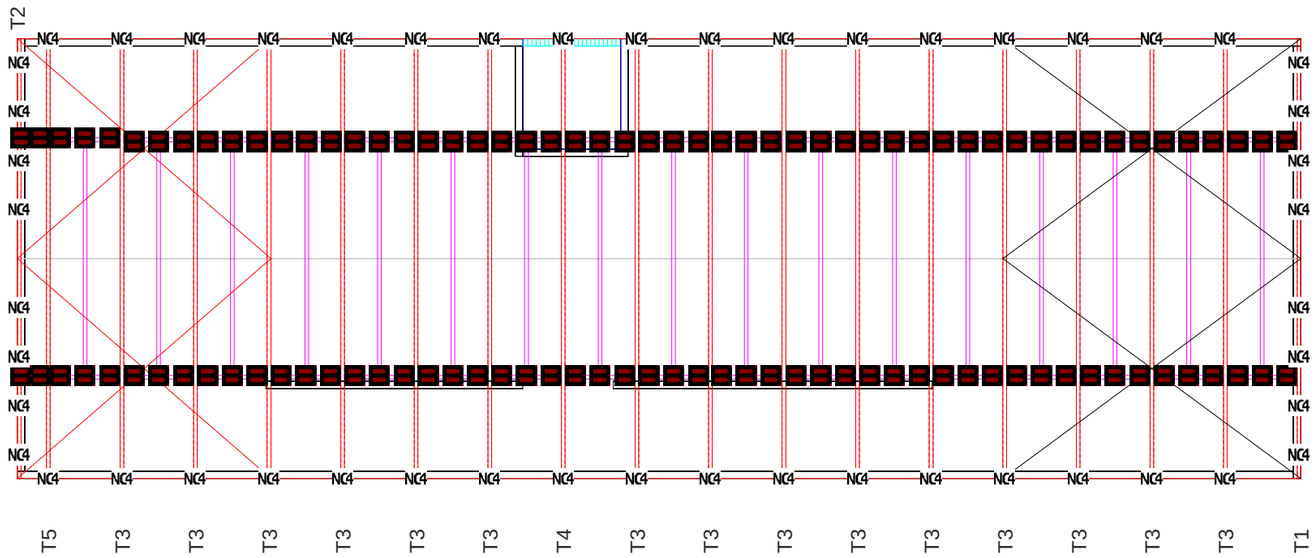
Delivery Details	QTY
-	-
-	-
-	-
-	-

Loose Timber	QTY
-	-
-	-
-	-
-	-
-	-
-	-

Truss Connections

* All tie-downs use 2/90x3.15 dia Skew Nails unless otherwise noted.

NC4 | 50 x 1/NPPC4 Purlin cleat



Notes

If Ceiling Battens Are Not Being Direct Fixed To The Bottom Chord Of The Truss, Bottom Chord Restraints Will Be Required At 1800mm Crs Max.

Builder to read Pre-nail plans in conjunction with Architectural plans, please check all opening trim sizes & braces on site before enclosing.
If any variations please contact Truss Tech.

Truss Tech Ltd will not accept any charges for remedial work unless written authority is issued by Truss Tech Ltd before work is commenced.

FTMA NEW ZEALAND

TRUSS TECH

TRUSS FIXINGS

Customer: NZCAD
Site Address: Creighton
Northlake Development

Job Details:

Roofing:	Longrun
Pitch:	35.00 Deg.
Truss Spacing:	900
Design Wind Velocity:	44.00 m/s (Ult.)
Detailer:	Liam Robertson

Job Ref: 160719P
Scale: 1:75
Date: Tuesday, 02 August 2016
Sheet: 5 Of 5

pryda