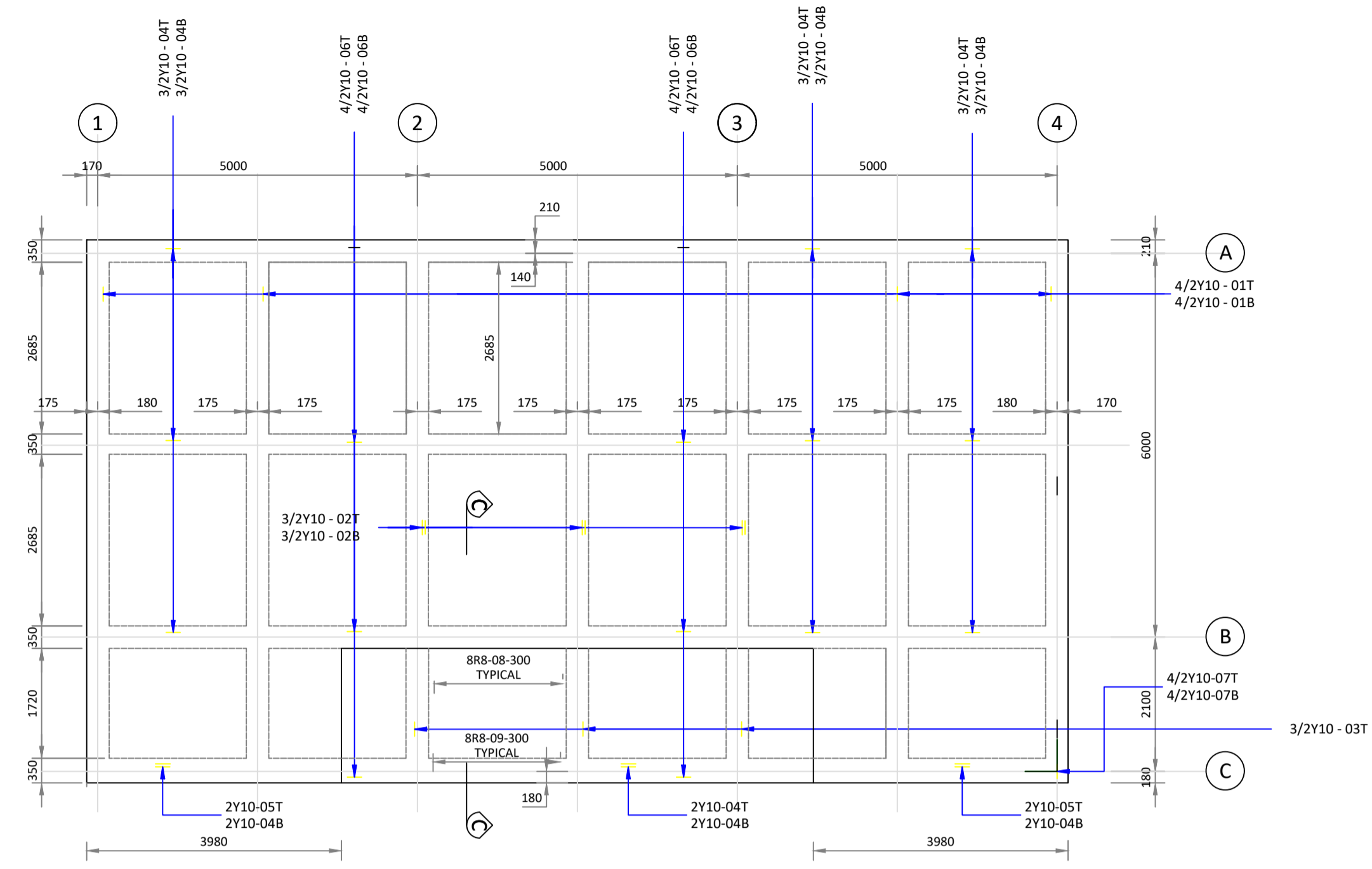
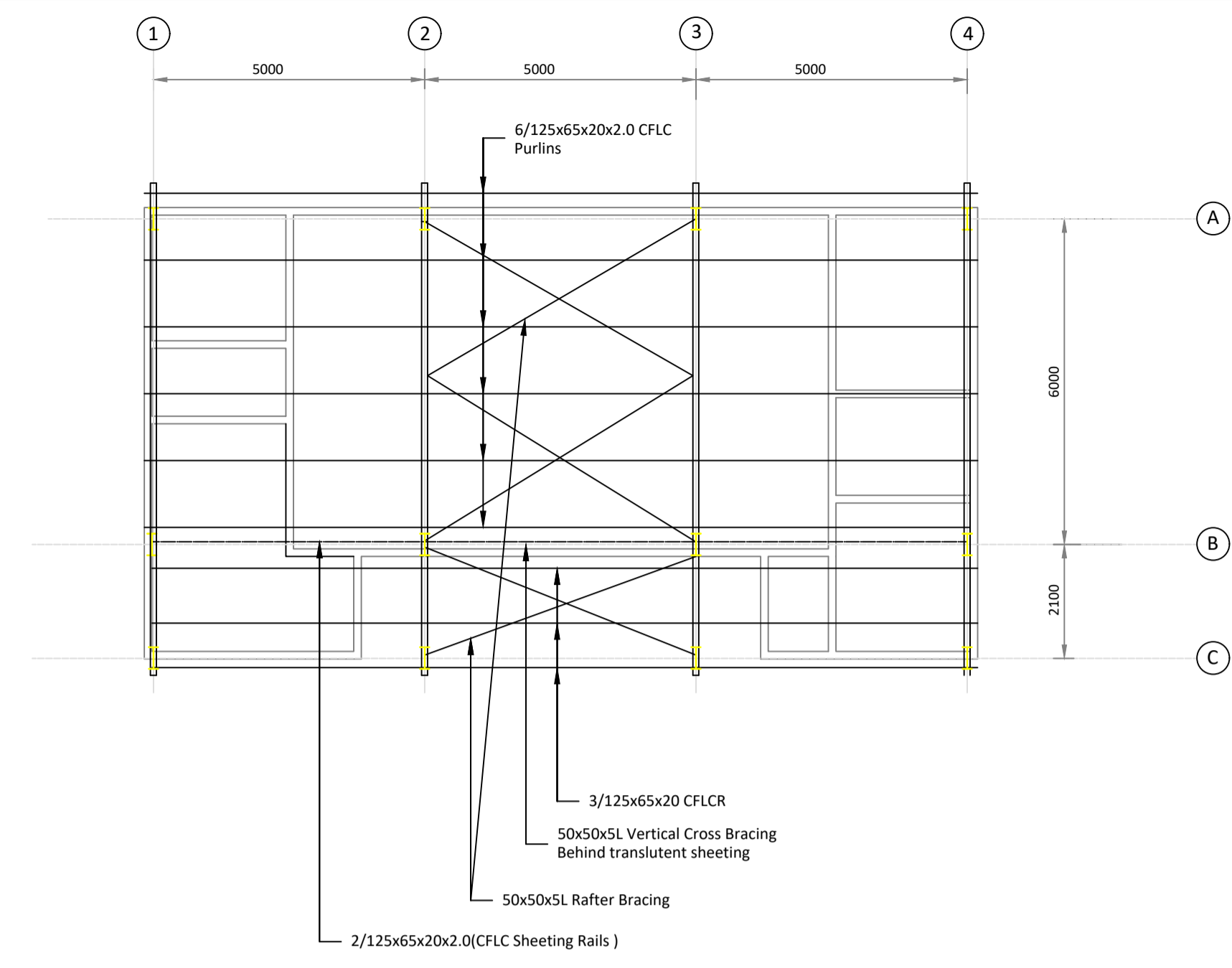


Notes

- FOUNDATION**
- Bearing pressure to foundations : 50 KN/sq.m
 - Foundation Bearing Stratum must be inspected by Engineer before casting.
 - Concrete strength at 28 days : 25 Mpa
 - Cover to Reinforcement : 50 mm
 - Raft Foundations :
Imported fill to underside of raft foundation to be a material with a P1 not greater than 12 and compacted to a CBR not less than 30 at 95% Mod AASHTO density And to extend 1000mm around Perimeter.
 - All drainage pipes to be installed and sleeved before casting of raft foundations.
- GENERAL**
- Drawing to be read in conjunction with architects and other relevant drawings.
 - All setting out dimensions and level to be checked on
 - This drawing is not to be scaled
 - Abbreviations:
B - Bottom face N.F - Near Face
T - Top Face F.F - Far Face
SFG - Staggered B.F - Both Faces
ALT - Alternately A.B.R - Alternate Bars Reserved
TYP - Typical
 - The structural certificate issued to the Municipality to obtain plan approval is issued with the following conditions:
1. Placing of reinforcement to be inspected and approved by Hemingway And Associates prior to casting concrete.
2. Independent concrete cubes are to be taken and tested. Ready mix delivery notes are not acceptable.
Failure to comply with the above conditions may result in the withdrawal of the Structural Certificate or refusal to issue Certificate of Completion of Structural System.
3. Provide slip joints between brickwork and concrete slabs and beams by leveling up and troweling smooth the bearing surfaces of brickwork with 3:1 cement mortar, then cover the bearing walls with two layers of 0.25 mm (250 micron) DPC "Brickgrip" before the concrete is cast.
 - All waterproofing , screeding and full bore outlets to architects details.



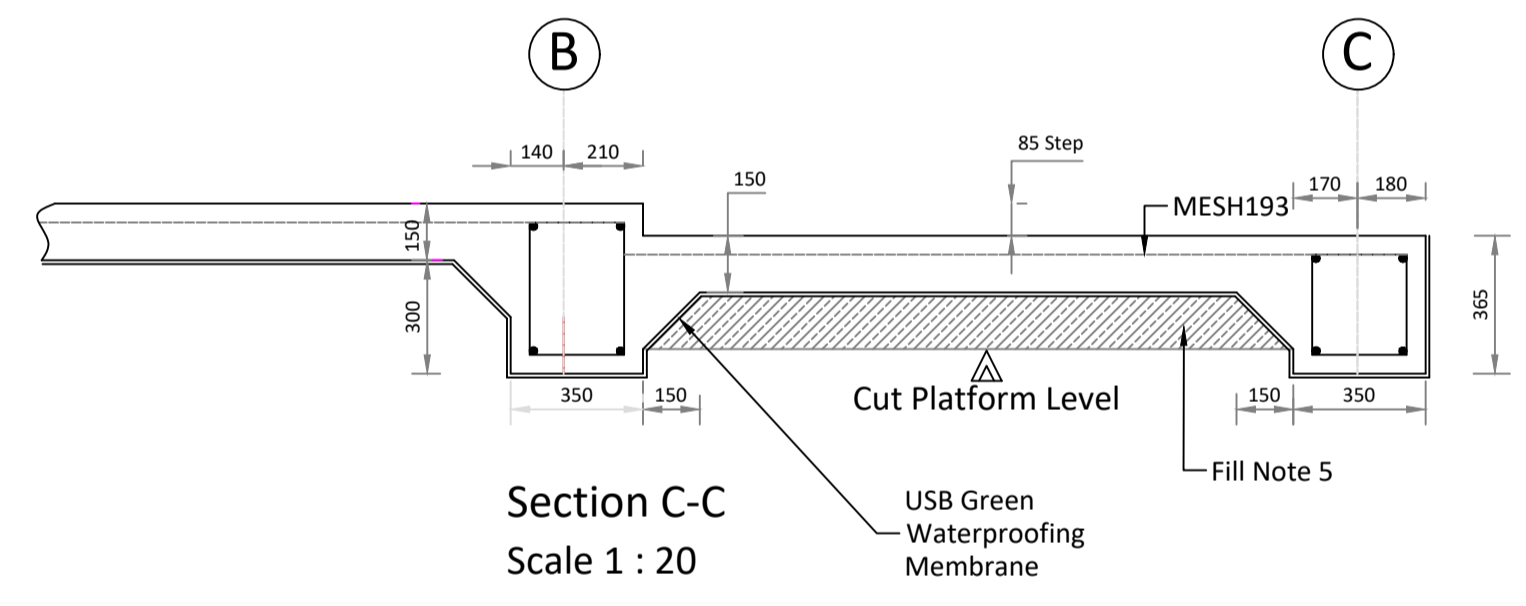
Raft Foundation Reinforcement
Scale 1:75



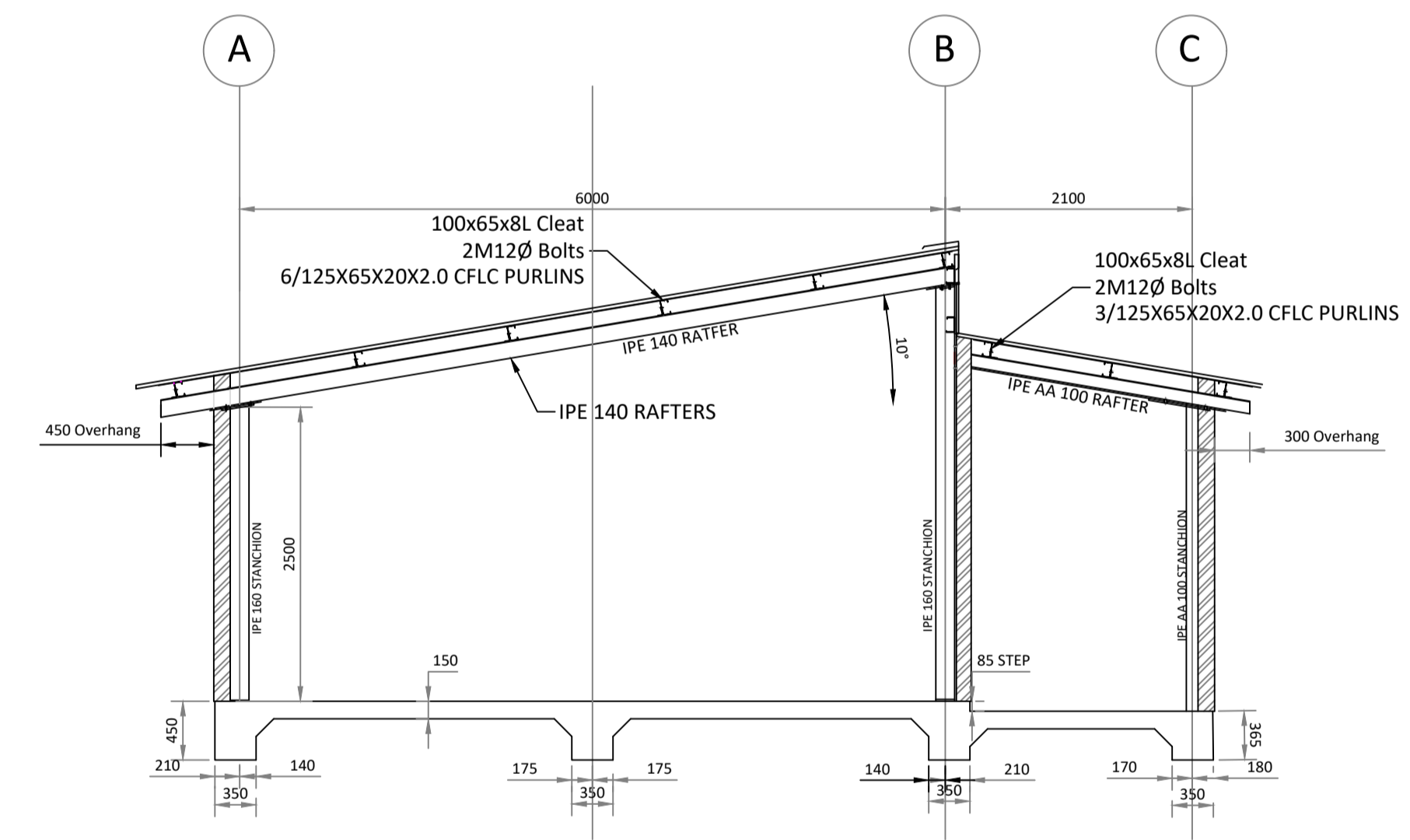
ROOF PLAN
Scale 1:100

HEMINGWAY AND ASSOCIATES cc Consulting Engineers													
BAR BENDING SCHEDULE													
DATE: 07 Dec 2018			Total Weight Of Steel: 500.6 Kg										
PROJECT: ECD Units			CODE: 17018										
ISSUED TO: Client			SCHEDULE: SA201			Page No. 01							
LOCATION	BAR MARK AND SIZE	TYPE	No. OFF IN EACH	No. EACH	TOTAL No.	LENGTH OF BAR mm	SHAPE CODE	A mm	B mm	C mm	D mm	E/r mm	Weight Of Bar Kg
RAFT	01	Y10	1	22	22	8390	38	8390					113.70
FOUNDATION	02	Y10	1	6	6	6320	20	6320					23.36
	03	Y10	1	3	3	2500	20	2500					4.62
	04	Y10	1	42	42	5000	20	5000					129.36
	05	Y10	1	4	4	5110	41	3720	200	1190	85		12.59104
	06	Y10	1	32	32	500	20	500					9.856
	07	Y10	1	16	16	1480	37	750	750				14.58888
	08	R8	1	334	334	1300	60	350	250				171.509
	09	R8	1	47	47	1130	60	265	250				20.97845

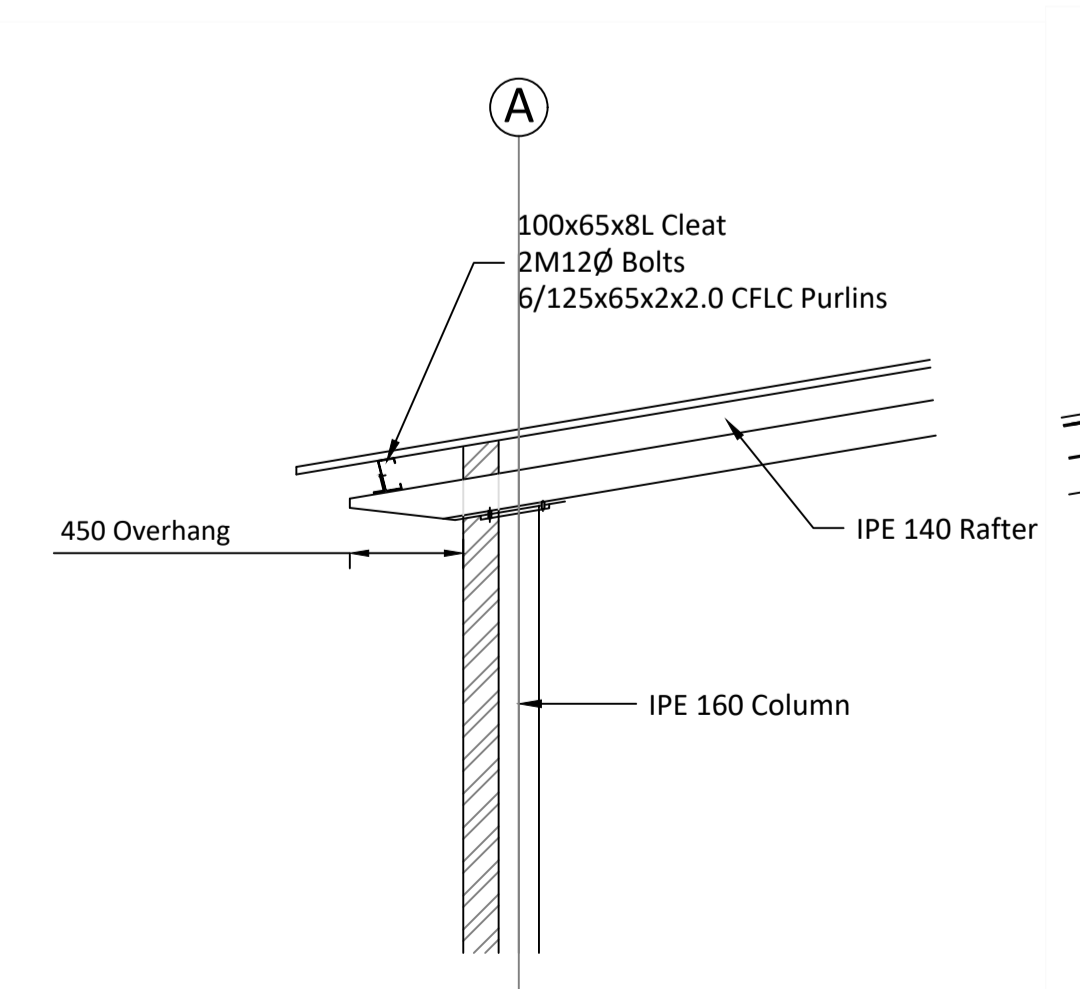
ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH SANS 282



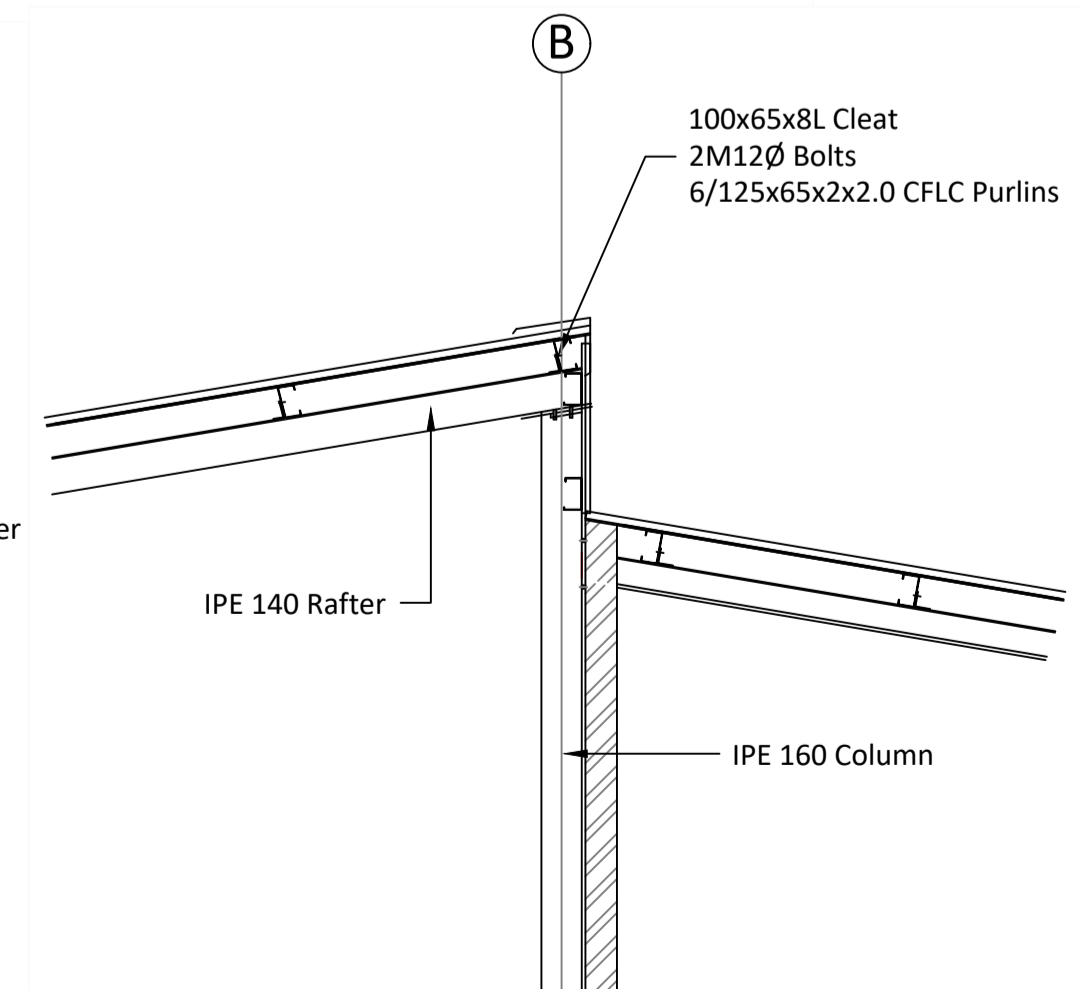
Section C-C
Scale 1 : 20



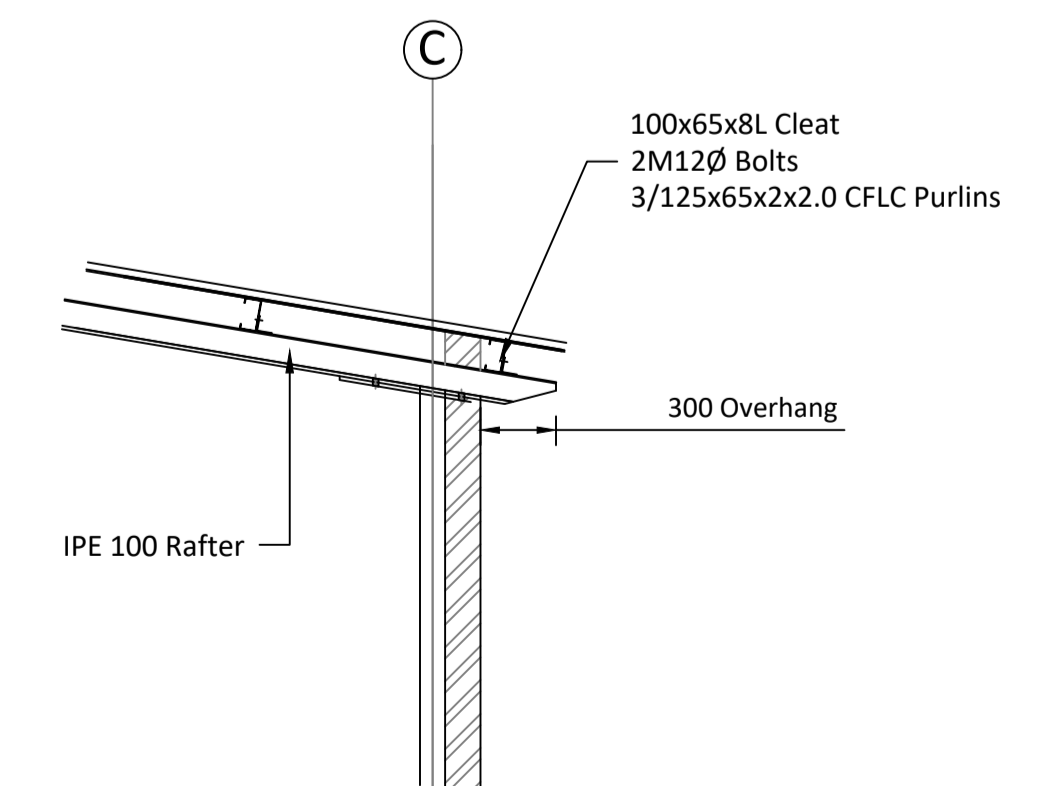
TYPICAL SECTION
Portal Frame At 5000 c/c
Scale 1:50



Detail A
Scale 1:30



Detail B
Scale 1:30



Detail C
Scale 1:30

Reference Drawing

Ref Number	Description

Revision Details

By	Chk	Rev Date	Suffix

Client: **LIMA**

Approved On Behalf of Client

Signature: _____

HEMINGWAY AND ASSOCIATES cc
Consulting Engineers

Fuschia Grove Farm
D183 Mount West
P.O. Box 91 Mooi River 3300
Kwa-Zulu Natal
South Africa

Email: Rob.Archer@bundunet.net
Cell: +27 (83) 460-9356

Approved On Behalf of Hemingway And Associates

By: _____ (Pr. No.)

Signature: _____

Date: _____

Project

TYPE A
2 Class Room

Title: **Foundation and Roof Structural Details**

Scale	As Shown
Drawn	Designer
N.G.K.	M.S.H
Check	Tech Check
M.S.H.	M.S.H.
Project Number	Drawing Number
17018	SA201
	Date
	22-Jan-19
	Revision