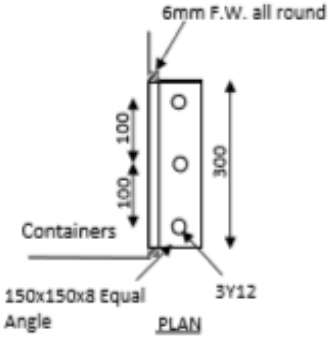
2) For Detail "B"

a) Design Tension Force

	Tension Force	=	18.44 kN		
Provide 2 x 3 nos. rebar	Force per Rebar	=	18.44 / (3 x 2)		
		=	3.07 kN		
Refer to RE-500 catalog, capacity for Y10		=	34.1 kN		
	F.O.S.	=	34.1 / 3.07		
		=	11.10 > 3	OK	



b) Weld on Rebar

	weld length	=	10π = 31.42	mm
	weld stress	=	(3.07 x 1000) / 31.42 x 0.6	
		=	59 N/mm	
	Allowable stress	=	0.7 x 6 x 220	
		=	924 N/mm	
		>	59 N/mm	OK

c) Weld on angle

	weld length	=	150 x 2	
		=	300 mm	
	weld stress	=	18.44 x 1000 / 300	
		=	61.46 N/mm	
		<	924 N/mm	OK