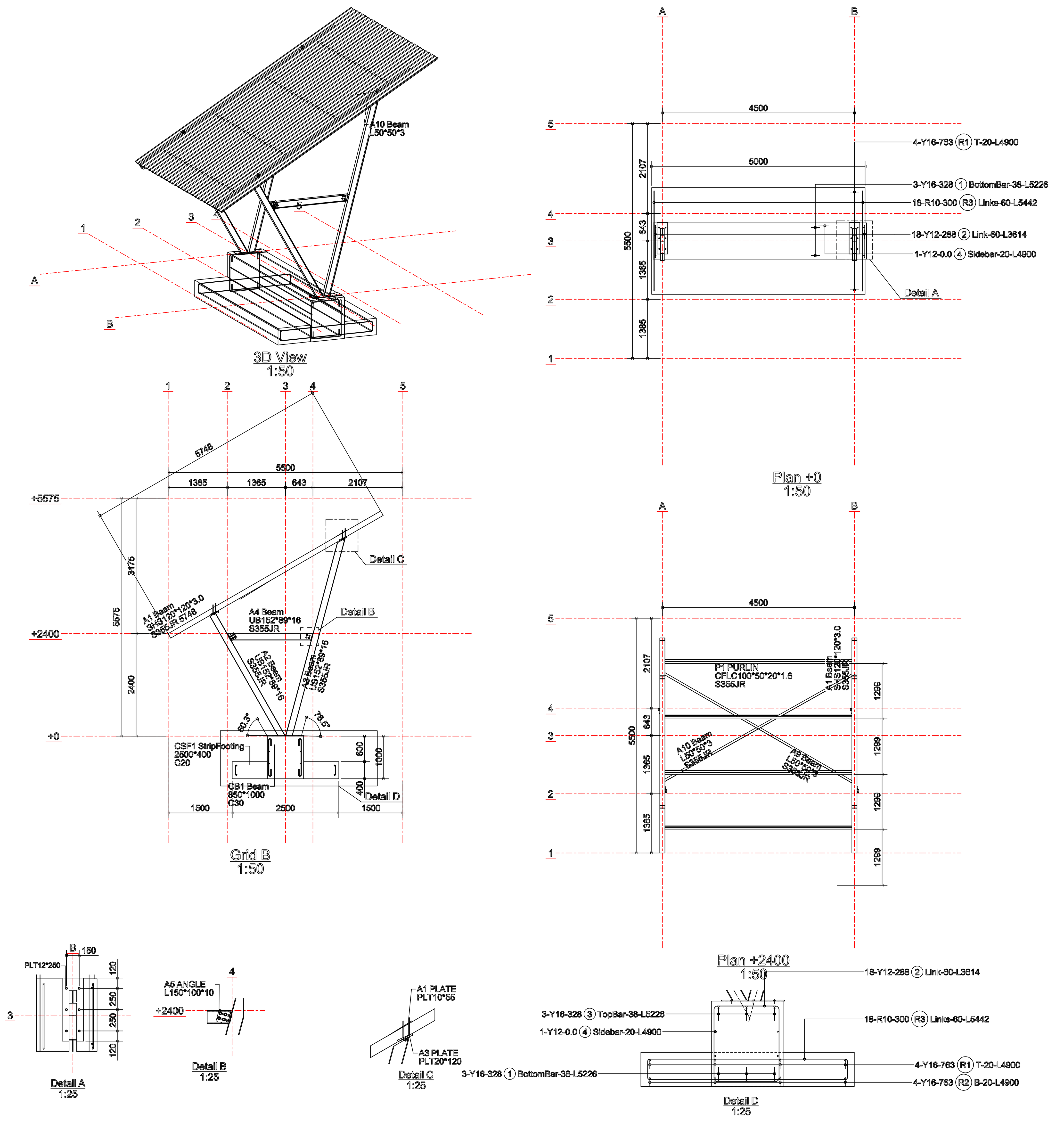

Reinforcing bending dimensions for shape codes (SANS 282)												
Type	Mark	No	Length	Shape	A	B	C	D	E	r	Mass each	All
Y12	4	4	4900	20	4900						4.4	17.4
Y16	R1	4	4900	20	4900						7.7	30.9
Y16	R2	4	4900	20	4900						7.7	30.9
Y16	1	3	5150	38	165	4900					8.1	24.3
Y16	3	3	5150	38	165	4900					8.1	24.3
Y12	2	18	3500	60	775	900					3.1	55.2
R10	R3	18	5350	60	250	2350					3.3	59.2

Total of 54 bars with a mass of 242.3 kg.

Bar grade and size summary

Total of 18 *bars* R10 *with a total length of* 96300 *mm and mass of* 59 *kg*
Total of 22 *bars* Y12 *with a total length of* 82600 *mm and mass of* 73 *kg*
Total of 14 *bars* Y16 *with a total length of* 70100 *mm and mass of* 111 *kg*

R = Mild steel bars (250MPa) to SANS 920
Y = High yield steel bars (450MPa) to SANS 920

Material list for 1 part named 'PLATE'

Mark	Profile	Grade	Length	Paint Area	Mass
M12	PLT20*120	S355JR	177	0.1	3.3
	Total for 1 part		177	0.1	3.3

Material list for 1 part named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
M8	SHS120*120*3.0	S355JR	5748	2.7	63.8
	Total for 1 part		5748	2.7	63.8

Material list for 1 part named 'PLATE'

Mark	Profile	Grade	Length	Paint Area	Mass
M6	PLT20*120	S355JR	177	0.1	3.3
	Total for 1 part		177	0.1	3.3

Material list for 1 part named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
M1	SHS120*120*3.0	S355JR	5748	2.7	63.8
	Total for 1 part		5748	2.7	63.8

Material list for 1 part named 'StripFooting'

Mark	Profile	Grade	Length	Paint Area	Mass
CSF1	2500*400	C20	5000	31.0	12250.0
	Total for 1 part		5000	31.0	12250.0

Material list for 1 part named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
CB1	850*1000	C30	5000	20.2	10412.5
	Total for 1 part		5000	20.2	10412.5

Material list for 1 part named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
A10	L50*50*3	S355JR	5395	1.0	12.6
	Total for 1 part		5395	1.0	12.6

Material list for 1 part named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
A9	L50*50*3	S355JR	5408	1.0	12.7
	Total for 1 part		5408	1.0	12.7

Material list for 2 parts named ''

Mark	Profile	Grade	Length	Paint Area	Mass
P3	PLT12*250	S355JR	739	0.4	17.4
	Total for 2 parts		1479	0.8	34.8

Material list for 16 parts named 'PLATE'

Mark	Profile	Grade	Length	Paint Area	Mass
P1	PLT10*55	S355JR	200	0.0	0.9
	Total for 16 parts		3200	0.4	13.8

Material list for 2 parts named 'PLATE'

Mark	Profile	Grade	Length	Paint Area	Mass
M5	PLT20*120	S355JR	189	0.1	3.6
	Total for 2 parts		378	0.1	7.1

Material list for 2 parts named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
M3	UB152*89*16	S355JR	4838	3.1	77.9
	Total for 2 parts		9676	6.2	155.8

Material list for 2 parts named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
M2	UB152*89*16	S355JR	3300	2.1	53.1
	Total for 2 parts		6599	4.2	106.2

Material list for 6 parts named 'PANEL'

Mark	Profile	Grade	Length	Paint Area	Mass
A_MACRO1	SHEETING	S235JR	6351	0.0	58.9
	Total for 6 parts		38104	0.0	353.5

Material list for 4 parts named 'ANGLE'

Mark	Profile	Grade	Length	Paint Area	Mass
A5	L150*100*10	S355JR	140	0.1	2.6
	Total for 4 parts		560	0.3	10.6

Material list for 2 parts named 'Beam'

Mark	Profile	Grade	Length	Paint Area	Mass
A4	UB152*89*16	S355JR	1986	1.3	32.0
	Total for 2 parts		3972	2.5	64.0

REV	WORKS DESCRIPTION	DATE
A	STAGE 4.2 ISSUED FOR INFORMATION	2025.03.07

REVISION SCHEDULE

FOR TENDER

A0

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DESCRIPTION :
PROPOSED NEW MARITE SAPS ON REMAINING EXTENT OF PORTION 1 OF THE FARM WATERVAL 273 KU

PROJECT NUMBER	19/1/9/1/72TB(22)	PROJECT NAME	MARITE SAPS - MPUMALANGA	DRAWING NUMBER	STR-150-17
CLIENT NAME	SAPS	DRAWING NAME	PLANS & SECTIONS	DRAWING SCALE	AS INDICATED
WORK STAGE	4.2	BUILDING NAME	CAR PORT	DRAWING REVISION	A
DRAWING AUTHOR	BLM	PROJECT LEADER	LGN	DRAWING DATE	2025.03.07