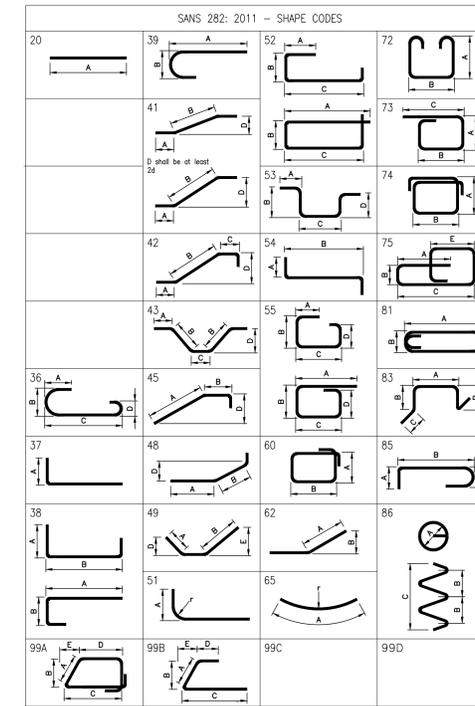


ROOF PLAN-REMOVABLE PANEL REINFORCEMENT DETAILS
1:25



MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S	B E N D I N G				
								A	B	C	D	E/r
BASE	1	94	Y16	5750	94	A01	55	440	360	4300	360	(440)
	1	89	Y16	4950	89	A02	38	360	4300	(360)		
	1	5	Y16	3950	5	A03	52	440	360	2900	(360)	
	1	5	Y16	2450	5	A04	60	360	810			
	1	76	Y16	5800	76	A05	38	475	325	(5050)		
	1	71	Y16	5350	71	A06	37	325	(6050)			
	1	5	Y16	4400	5	A07	38	475	325	(3650)		
	1	5	Y16	2400	5	A08	60	325	810			
	1	8	Y16	1250	8	A09	20	(1280)				
	1	30	R10	1450	30	A10	83	300	310	300	(300)	
WALL	1	464	Y16	1950	464	B01	37	500	(1500)			
	1	464	Y12	4700	464	B02	20	(4700)				
	1	232	Y12	2000	232	B03	38	880	310	(880)		
	1	200	Y12	3600	200	B04	37	1550	(2050)			
	1	200	Y12	1900	200	B05	37	350	(1550)			
	1	200	Y12	2400	200	B06	37	350	(2050)			
	1	200	Y12	6000	200	B07	20	(6000)				
	1	108	R10	500	108	B08	85	120	310	60	(80)	
	3	8	Y12	1450	24	B09	38	600	310	(600)		
	3	8	Y12	1450	24	B10	38	600	275	(600)		
EXTRA OPENING BARS	3	16	Y12	950	48	B11	20	(960)				
	1	92	Y10	1100	92	C01	38	500	150	(500)		
ROOF SLAB	1	92	Y10	3500	92	C02	20	(3500)				
	1	14	Y10	1400	14	C03	60	150	480			
	1	29	Y10	1550	29	C04	99A	210	150	870	720	150
	1	6	Y10	1080	6	C05	99A	210	150	360	210	150
	1	8	Y10	920	8	C06	99A	210	150	280	130	150
	1	6	Y10	3180	6	C07	99A	210	150	1400	1250	150
	1	13	Y10	2280	13	C08	99A	210	150	960	810	150
	1	23	Y10	3520	23	C09	99A	210	150	1580	1430	150
	1	49	Y10	1100	49	C10	38	500	130	(500)		
	1	34	Y10	8500	34	C11	20	(8500)				
	1	12	Y10	3500	12	C12	20	(3500)				
	1	4	Y10	5050	4	C13	20	(5050)				
	1	14	Y10	3350	14	C14	20	(3360)				
	1	6	Y10	6700	6	C15	20	(6730)				
	1	8	Y10	5600	8	C16	20	(5610)				
	1	6	Y10	7400	6	C17	20	(7390)				
	1	26	Y10	1690	26	C18	99A	180	130	680	550	130
	1	28	Y10	1310	28	C19	99B	180	130	630	500	130
	1	13	Y10	1350	13	C20	60	130	480			
	1	6	Y16	3500	6	C21	20	(3500)				
1	3	Y16	2300	3	C22	20	(2290)					
1	3	Y16	2400	3	C23	20	(2390)					
1	6	Y16	4350	6	C24	20	(4355)					
1	6	Y16	2750	6	C25	20	(2770)					
1	32	RB	1250	32	C26	20	(1260)					
1	20	RB	1100	20	C27	83	300	120	300	(300)		
R	9	60									69	
Y	812	4918	4577								10308	
TOT	9	872	4918	4577							10377	

GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWINGS
- STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH SANS SPECIFICATIONS AND RAND WATER SPECIFICATIONS
- ALL CONCRETE MIXES AND METHOD STATEMENTS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION
- FOUNDATION EXCAVATIONS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO CASTING OF THE BLINDING LAYER
- ALL LEVELS AND DIMENSIONS WILL BE CHECKED ON SITE PRIOR TO CONSTRUCTION

REINFORCEMENT NOTES:

- REINFORCEMENT CHARACTERISTICS:
REINFORCED CONCRETE CLASS AS SPECIFIED ON GENERAL ARRANGEMENT
- CONCRETE COVER:
a. FLOOR: 45mm
b. WALLS: 45mm
c. ROOF (TOP FACE): 70mm
d. ROOF (BOTTOM FACE): 30mm
- MINIMUM LAP LENGTH TO BE 50 x DIAMETER OF THE SMALLER BAR.
- ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO CASTING OF ANY CONCRETE
- REINFORCEMENT ABBREVIATIONS:
BW = BOTH WAYS
EF = EACH FACE
NF = NEAR FACE
FF = FAR FACE
EW = EACH WAY
T = TOP
T1 = FIRST LAYER FROM TOP
T2 = SECOND LAYER FROM TOP
T3 = THIRD LAYER FROM TOP
B = BOTTOM LAYER
B1 = FIRST LAYER FROM BOTTOM
B2 = SECOND LAYER FROM BOTTOM
B3 = THIRD LAYER FROM BOTTOM
ALT = ALTERNATE
ABR = ALTERNATE BAR REVERSED
- ONLY CONCRETE COVER BLOCKS ALLOWED OF THE SAME STRENGTH OF CONCRETE
- REINFORCEMENT DETAILING TO COMPLY WITH SANS 10144
- BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SANS 282
- REINFORCEMENT SHALL BE FIXED TO COMPLY WITH TOLERANCES AS SPECIFIED IN SANS 1200G

REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION

REFERENCE DRAWINGS

NUMBER	TITLE
R040199/100	GENERAL ARRANGEMENTS FOR THE DN300 METER AND FLOW CONTROL VALVE CHAMBER
R040199/200	REINFORCEMENT DETAILS FOR THE DN300 METER AND FLOW CONTROL VALVE CHAMBER
	SHEET 1 of 2



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CONTRACT No.	RW	D.O.M.	C. MAMBOLO
DESIGNED BY	J. MAMABOLO	APPROVED	
DRAWN BY	J. MAMABOLO	REG. No.	20150256
DATE	SEPT. 2022	DATE	16/09/2022

PIPELINES & BOOSTERS
DAVELAND METER

REINFORCEMENT DETAILS FOR THE DN300 METER AND FLOW CONTROL VALVE CHAMBER SHEET 2 of 2

STATION	WKS	DOC. TYPE	S
P L		D C R	A
SCALE AS SHOWN		REVISION	1

FOR CONSTRUCTION