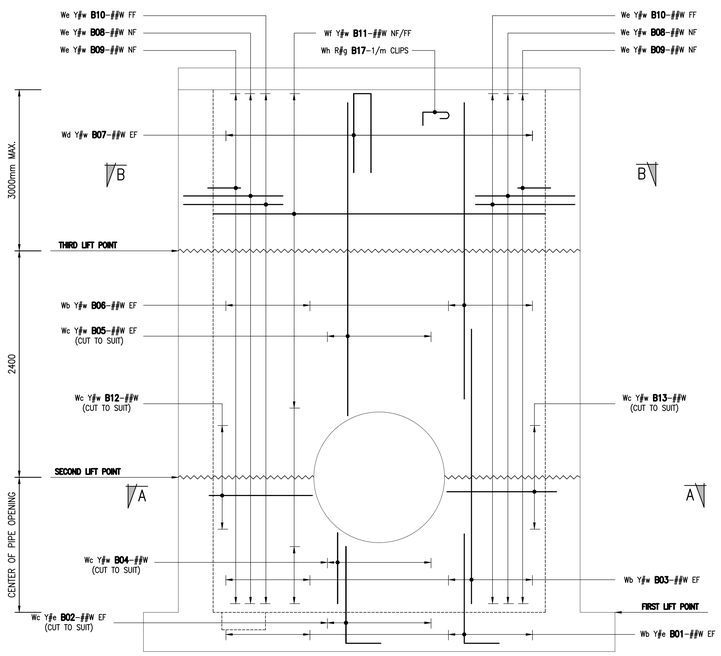
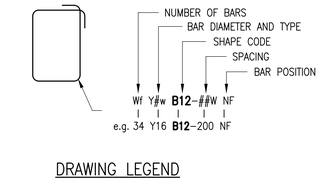
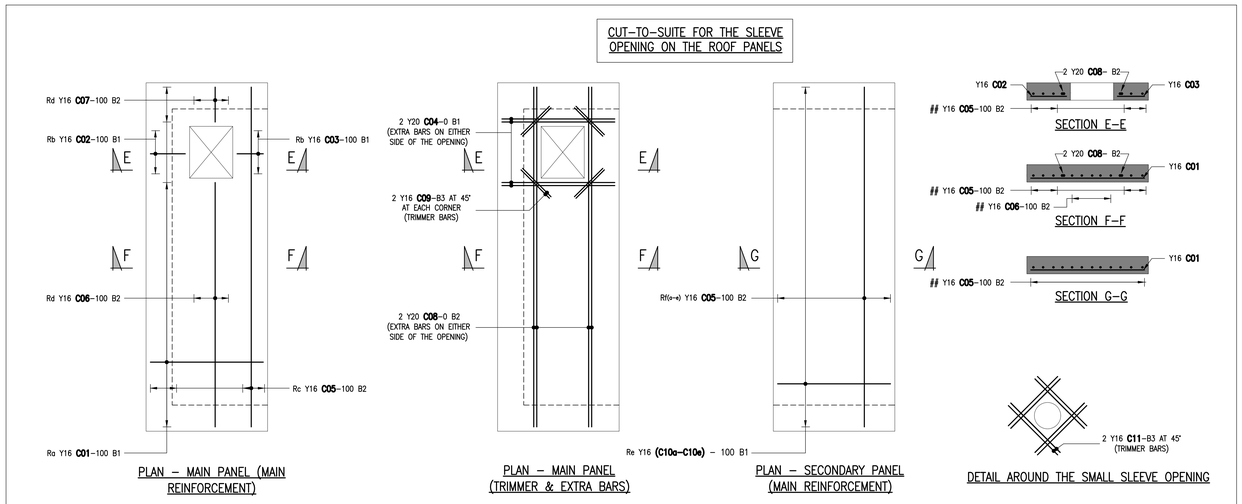


ELEVATION WALL "2"
SCALE 1:25



DRAWING LEGEND
N.T.S

CUT-TO-SUITE FOR THE SLEEVE OPENING ON THE ROOF PANELS



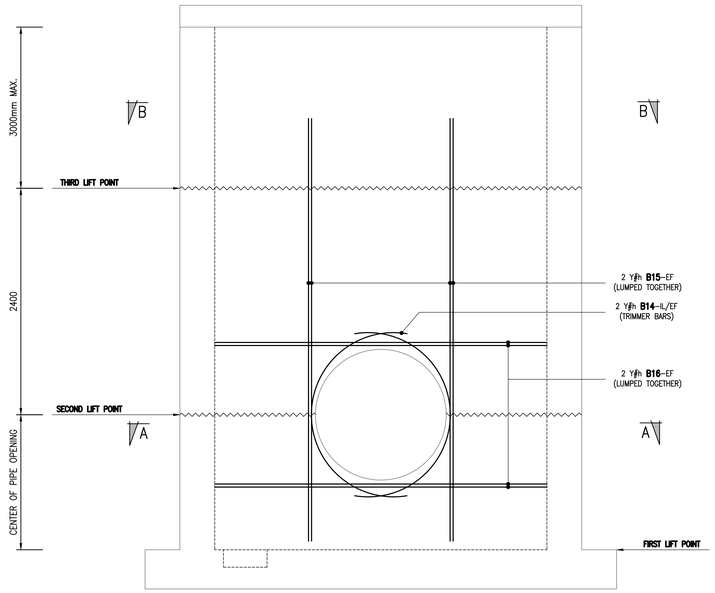
PLAN – MAIN PANEL (MAIN REINFORCEMENT)

PLAN – MAIN PANEL (TRIMMER & EXTRA BARS)

PLAN – SECONDARY PANEL (MAIN REINFORCEMENT)

DETAIL AROUND THE SMALL SLEEVE OPENING

TYPE 1 ROOF PANELS DETAILS (200mm THICK)
SCALE 1:25



COMPENSATION BARS
SCALE 1:25

SCHEDULE

CHAMBER DESCRIPTION : F25 Q5 Cross connection chamber

REFERENCED GA DRG No.: R061397-200

REFERENCED REBAR DRG No.: R061397-201 & 202

MEMBER	BAR MARK	TYPE & SIZE		No. OF MBRS	No. OF BARS IN EACH	TOTAL No.	LENGTH OF EACH BAR (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)
BASE	A01	Y	16	1	61	61	6810	55	440	360	5210	360	440
	A02	Y	16	1	56	56	5930	38	360	5210	360		
	A03	Y	16	1	5	5	2880	60	360	810			
	A04	Y	16	1	5	5	4970	52	440	360	3810	360	
	A05	Y	16	1	54	54	7510	55	472	328	5910	328	472
	A06	Y	16	1	49	49	6566	38	328	5910	328		
	A07	Y	16	1	5	5	2768	60	328	810			
	A08	Y	16	1	5	5	5638	52	472	328	4510	328	
	A09	Y	16	1	8	8	1280	20	1280				
	A10	R	10	1	22	22	1824	83	400	312	400	400	
WALL 1&3 -NO OPENING	B01	Y	16	2	92	184	1705	37	400	1305			
	B03	Y	16	2	92	184	3050	20	3050				
	B06	Y	16	2	92	184	3351	20	3351				
	B07	Y	16	2	46	92	2110	38	900	310	900		
	B08	Y	16	2	118	236	3344	37	1139	2205			
	B09	Y	16	2	118	236	2560	37	355	2205			
	B10	Y	16	2	118	236	1494	37	355	1139			
	B17	R	10	2	22	44	470	85	100	310	60	60	
WALL 2&4 - OPENING	B01	Y	16	2	68	136	1705	37	400	1305			
	B02	Y	16	2	22	44	1798	37	400	1398			
	B03	Y	16	2	68	136	3050	20	3050				
	B04	Y	16	2	22	44	1101	20	1101				
	B05	Y	16	2	44	88	3951	20	3951				
	B06	Y	16	2	68	136	3351	20	3351				
	B07	Y	16	2	45	90	2110	38	900	310	900		
	B11	Y	16	2	96	192	4400	20	4400				
	B12	Y	16	2	22	44	1999	20	1999				
	B13	Y	16	2	22	44	1889	20	1889				
	B14	Y	16	2	4	8	2148	65	2148				573
	B15	Y	16	2	8	16	4650	20	4650				
	B16	Y	16	2	8	16	4400	20	4400				
	B17	R	10	2	26	52	470	85	100	310	60	60	
	B18	Y											
	B19	Y											
	B20	Y											
ROOF	TYPE 1 ROOF PANEL												
MAIN PANEL	C01	Y	16	1	52	52	1620	20	1620				
	C02	Y	16	1	8	8	520	20	520				
	C03	Y	16	1	8	8	525	20	525				
	C04	Y	20	1	4	4	1620	20	1620				
	C05	Y	16	1	16	16	4420	20	4420				
	C06	Y	16	1	7	7	3225	20	3225				
	C07	Y	16	1	60	60	520	20	520				
	C08	Y	20	1	4	4	4420	20	4420				
	C09	Y	16	1	8	8	1280	20	1280				
Type "a"	C10a	Y	16	1	60	60	1720	20	1720				
	C05	Y	16	1	24	24	4420	20	4420				
Type "b"	C10b	Y	16	1	60	60	1620	20	1620				
	C05	Y	16	1	23	23	4420	20	4420				
Type "c"	C10c												
	C05												
Type "d"	C10d												
	C05												
Type "e"	C10e												
	C05												
Openings	C11	Y	16	3	8	24	625	20	625				
PLINTH	NO PLINTH REINFORCEMENT REQUIRED												
	D01												
	D02												

MASS OF STEEL (KG)

			6	8	10	12	16	20	25	32	40	TOTAL
					54							54
	R						0	13577	60	0		13637
	Y											13691
TOTAL					54		0	13577	60	0		

DRG No. R061397-202

GENERAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWINGS AND REINFORCEMENT SCHEDULE DRAWING
2. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH SANS SPECIFICATIONS AND RAND WATER SPECIFICATIONS.
3. ALL CONCRETE MIXES AND METHOD STATEMENTS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION
4. FOUNDATION EXCAVATIONS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO CASTING OF THE BLINDING LAYER
5. ALL LEVELS AND DIMENSIONS WILL BE CHECKED ON SITE PRIOR TO CONSTRUCTION
6. THIS DRAWING IS LIMITED TO CHAMBERS THAT:
   a. HAVE TWO CONSTRUCTION JOINTS (FIRST CONSTRUCTION JOINT AT THE CENTER OF THE OPENING AND THE SECOND AT A DISTANCE OF 2400mm FROM THE FIRST).
   b. HAVE A SIMPLY SUPPORTED ROOF SLAB WITH ONE OPENING (MANHOLE OPENING ONLY).

REINFORCEMENT NOTES:

1. REINFORCEMENT CHARACTERISTICS:
   REINFORCED CONCRETE CLASS AS SPECIFIED ON GENERAL ARRANGEMENT
2. CONCRETE COVER:
   a. FLOOR: 45mm
   c. WALLS: 45mm
   d. ROOF: 40mm
3. MINIMUM LAP LENGTH TO BE 50 x DIAMETER OF THE SMALLER BAR.
4. ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO CASTING OF ANY CONCRETE
5. 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
6. BAR DIAMETER ABBREVIATIONS:
   #b = BASE REBAR
   #f = BASE STOOL
   #i = BASE TRIMMER BAR
   #s = STARTER BAR
   #w = WALL REBAR
   #g = CLIPS
   #h = WALL TRIMMER BAR
   #r = ROOF REBAR
   #j = ROOF STOOL
   #k = ROOF TRIMMER BAR
7. SPACING ABBREVIATIONS:
   ##B = BASE REINFORCEMENT SPACING
   ##W = WALL REINFORCEMENT SPACING
   ##R = ROOF REINFORCEMENT SPACING
8. ONLY CONCRETE COVER BLOCKS ALLOWED OF THE SAME STRENGTH OF CONCRETE
9. REINFORCEMENT DETAILING TO COMPLY WITH SANS 10144
10. BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SANS 282
11. REINFORCEMENT SHALL BE FIXED TO COMPLY WITH TOLERANCES AS SPECIFIED IN SANS 1200G

REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION
0	2023-07-11	JM	MC	ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS

NUMBER	TITLE
11860	STEEL FIBRE CONCRETE MANHOLE
A12210	VALVE SUPPORT
A9859	DETAILS OF GRAB RAIL
A8879	SUMP COVER AND FRAME
RA27329	DETAILS OF EXTERNAL MASS CONCRETE ACCESS STEPS
RA26695/001-003	GATE VALVE ACCESS STEEL PLATFORM
A7406	STANDARD GALVANIZED CATLADDER
R46139S	SURVEY DRAWING
R461397-01	PIPE SPECIALS
R461397-100-101	SUMP PUMP AND ACTUATOR DETAILS
R461397-201	CHAMBER REINFORCEMENT DETAILS
R461397-200	CHAMBER GENERAL ARRANGEMENT DETAILS
2915/HLS/01	HYDRAULIC LONG SECTION FOR Q5 PIPELINE

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SAP No.	P.OXXX	CHECKED BY	
CONTRACT No.	RWXXXXX	D.O.M. C. TUMBARE	
DESIGNED BY	K. SUKKHU	APPROVED	Pr Eng
DRAWN BY	K. SUKKHU	REG. No.	20150256
DATE	2023/07/11	DATE	18/07/2023

EIKENHOF TO WATERVAL

WATERVAL RESERVOIR SITE

CHAMBER REINFORCEMENT DETAILS FOR DN1000 SLUICE GATE VALVE FOR CROSS CONNECTION BETWEEN F25 & Q5 PIPELINE

AT CHAINAGE 4996.44

STATION	WKS	DOC. TYPE	S
E I K	F 2 5 & Q 5	D C G	A

SCALE 1:25

DRG No.R061397-202

REVISION 0