

<u>ADDENDUM</u>	No. 01
<u>CONTRACT NUMBER:</u>	JW14289R
<u>CONTRACT TITLE:</u>	CONSTRUCTION OF 22 ML REINFORCED CONCRETE WOODMEAD RESERVOIR
<u>SUBJECT</u>	Addendum 1
<u>Date</u>	21 January 2025
<u>Sender</u>	Gcina Ndela 011 688 1796 gcina.ndela@jwater.co.za Sijabuliso Tshuma 011 688 1570 sijabuliso.tshuma@jwater.co.za

Tenderers are required to incorporate the revised required documents into the tender document by replacing page RD63 and RD64, and specific drawings with revised ones, and new drawings as outlined below and return the Addendum:

1. Replace current List of Drawings of T2.3.2: JW 6.5 Returnable Annexure B: Acknowledgement of Tender Drawings, pg RD63-64. The changes on the Returnable Annexure B are as follows,

Drawing number	Page	Drawing number	Drawing Description	Description of Change
Volume 1, Page RD63		JW14289R-206	Flowmeter Chambers - 3d Views	To be removed from list
Volume 1, Page RD63		JW14289R-208	2.4m Concrete palisade fence details	To be removed from list
Volume 1, Page RD63		JW14289R-222	Boundary Wall Details	To be removed from list

2. To replace specific drawings with revised ones and issue new drawings that were omitted as indicated below,

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,
Mr Kgaile Mogoye, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela,
Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),
Johannesburg Water SOC Ltd
Registration Number: 2000/029271/30

Drawing number	Page	Drawing number	Drawing Description	Description of Change
Volume 4: Tender Drawings		JW14289R-000	List of Drawings	Change to list of drawings
		JW14289R -700	Reservoir Inlet Details	Change: Include Item 4 Detail.
		JW14289R-201	Steel Pipe Taper and Bend Details	New drawing
		JW14289R-204	Name Board	New drawing
		JW14289R-205	Cable Duct Manholes Details	New drawing
		JW14289R-210	Stormwater Manholes Details	New drawing
		JW14289R-240	Guardhouse	New drawing
		JW14289R-241	Instrumentation Hut	New drawing
		JW14289R-101	Site Layout	New drawing
		JW14289R-110B	Wall and Column Bending Schedule	New drawing
		JW14289R-301B	Surface Bed Bending Schedule	New drawing
		JW14289R-400B	Stormwater Chamber Bending Schedule	New drawing
		JW14289R-406B	Outlet Flow Meter Chamber Bending Schedule	New drawing
		JW14289R-408B	Outlet Isolating Valve Chamber Bending Schedule	New drawing
		JW14289R-409B	Insulating Gasket Kit Manhole Bending Schedule	New drawing
		JW14289R-410B	Inlet Flow Meter Chamber Bending Schedule	New drawing
		JW14289R-501B	Roof Slab Bottom B1 Chamber Bending Schedule	New drawing
		JW14289R-502B	Roof Slab Top T1 Chamber Bending Schedule	New drawing

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City of Johannesburg

Johannesburg Water SOC Ltd

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		Roof Slab Top T2 Chamber Bending	New drawing
	JW14289R-503B	Schedule	
	JW14289R-510B	Foundation Bending Schedule	New drawing
	JW14289R-510	Foundation Reinforcement Details	New drawing

3. Closing date extended from 30 January 2025 at 10:30 to 14 February 2025 at 10:30.

Any inconvenience caused is indeed, regretted.

Yours faithfully

 27.01.2025

Itshuteng Tabe

Acting General Manager: Supply Chain Management

Addendum Received

Name of

Tenderer:.....

Signatory:.....

Signature:.....

Date:.....

Directors:

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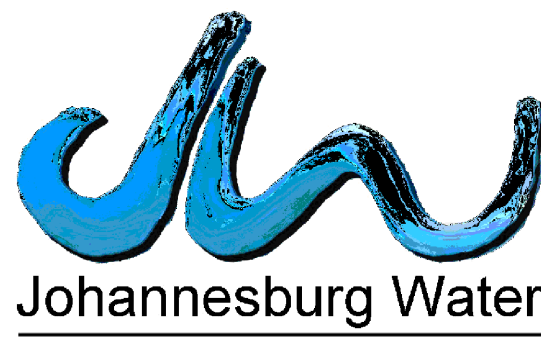
Ms Kethabile Mabe (Company Secretary),

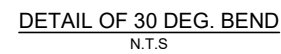
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Registration Number: 2000/029271/30

LIST OF DRAWINGS

DWG NO:	DESCRIPTION	DWG NO:	DESCRIPTION
<u>CIVIL</u>		<u>STRUCTURE</u>	
JW14289R-000	LIST OF DRAWINGS	JW14289R-105	ROOF LAYOUT
JW14289R-001	LOCALITY PLAN	JW14289R-106	SECTIONS AND DETAILS
JW14289R-002	LAYOUT PLAN	JW14289R-107	MISCELLANEOUS DETAILS
JW14289R-003	LAYOUT PLAN CADASTRAL	JW14289R-108	POST TENSION LAYOUT & DETAILS SHT 1-2
		JW14289R-109	POST TENSION LAYOUT & DETAILS SHT 2-2
JW14289R-200	STANDARD DETAILS FOR TRENCH EXCAVATION AND BACKFILL FOR STEEL PIPES > 400mm ND	JW14289R-110	WALL & COLUMN REINFORCEMENT DETAILS
JW14289R-201	STEEL PIPE TAPER AND BEND DETAILS	JW14289R-110B	WALL & COLUMN BENDING SCHEDULE
JW14289R-202	STORMWATER CHAMBER	JW14289R-111	SUB-SURFACE DRAINAGE LONG SECTION AND MANHOLE DETAILS
JW14289R-203	PIPE MARKERS		
JW14289R-204	NAME BOARD	JW14289R-220	BOUNDARY WALL DETAILS
JW14289R-205	CABLE DUCT MANHOLE DETAILS	JW14289R-221	BOUNDARY WALL DETAILS
JW14289R-207	6m WIDE OPENING SLIDING GATE		
JW14289R-209	TYPICAL TRENCH CROSS-SECTION FOR uPVC	JW14289R-301	SURFACE BED REINFORCEMENT DETAILS
JW14289R-210	STORMWATER MANHOLE DETAILS	JW14289R-301B	SURFACE BED BENDING SCHEDULE
JW14289R-240	GUARD HOUSE	JW14289R-400	STORMWATER CHAMBER REINFORCEMENT DETAILS
JW14289R-241	INSTRUMENTATION HUT	JW14289R-400B	STORMWATER CHAMBER BENDING SCHEDULE
JW14289R-300	INLET FLOW METER CHAMBER AND INSTALLATION DETAILS	JW14289R-402	BYPASS PRV CHAMBER REINFORCEMENT DETAILS SHT 1-2
		JW14289R-403	BYPASS PRV CHAMBER REINFORCEMENT DETAILS SHT 2-2
JW14289R-304	RESERVOIR BYPASS PRV CHAMBER PIPE AND FITTING SCHEDULE	JW14289R-404	INLET PRV CHAMBER REINFORCEMENT DETAILS SHT 1-2
JW14289R-305	RESERVOIR BYPASS PRV CHAMBER DETAILS	JW14289R-405	INLET PRV CHAMBER REINFORCEMENT DETAILS SHT 2-2
JW14289R-306	RESERVOIR INLET PRV CHAMBER PIPE AND FITTING DETAILS	JW14289R-406	OUTLET FLOW METER CHAMBER REINFORCEMENT DETAILS
JW14289R-307	RESERVOIR INLET PRV CHAMBER DETAILS	JW14289R-406B	OUTLET FLOW METER CHAMBER BENDING SCHEDULE
JW14289R-308	OUTLET FLOW METER CHAMBER & INSTALLATION DETAILS	JW14289R-408	OUTLET ISOLATION VALVE CHAMBER REINFORCEMENT DETAILS
JW14289R-309	OUTLET ISOLATION VALVE CHAMBER & INSTALLATION DETAILS	JW14289R-408B	OUTLET ISOLATION VALVE CHAMBER BENDING SCHEDULE
JW14289R-310	TYPICAL INSULATING GASKET KIT MANHOLE DETAILS	JW14289R-409	INSULATION GASKET KIT MANHOLE REINFORCEMENT DETAILS
JW14289R-312	TYPICAL LADDER DETAILS	JW14289R-409B	INSULATION GASKET KIT MANHOLE BENDING SCHEDULE
		JW14289R-410	INLET FLOW METER CHAMBER REINFORCEMENT DETAILS
JW14289R-700	RESERVOIR INLET DETAILS	JW14289R-410B	INLET FLOW METER CHAMBER BENDING SCHEDULE
JW14289R-701	RESERVOIR OUTLET DETAILS		
JW14289R-702	RESERVOIR OVERFLOW DETAILS	JW14289R-501	ROOF SLAB BOTTOM B1 REINFORCEMENT DETAILS
JW14289R-703	RESERVOIR SCOUR & OVERFLOW DETAILS	JW14289R-501B	ROOF SLAB BOTTOM B1 CHAMBER BENDING SCHEDULE
JW14289R-704	RESERVOIR SCOUR & OVERFLOW PIPE TO STORMWATER MANHOLE	JW14289R-502	ROOF SLAB TOP T1 REINFORCEMENT DETAILS
JW14289R-705	STORMWATER PIPELINE LONGSECTION	JW14289R-502B	ROOF SLAB TOP T1 CHAMBER BENDING SCHEDULE
		JW14289R-503	ROOF SLAB TOP T2 REINFORCEMENT DETAILS
DWG NO:	DESCRIPTION	JW14289R-503B	ROOF SLAB TOP T2 CHAMBER BENDING SCHEDULE
		JW14289R-510	FOUNDATION REINFORCEMENT DETAILS
<u>STRUCTURE</u>		JW14289R-510B	FOUNDATION BENDING SCHEDULE
JW14289R-101	SITE LAYOUT		
JW14289R-102	GENERAL ARRANGEMENT	JW14289R-601	TERRACE LEVEL PLANS
JW14289R-103	SUB-SURFACE DRAINAGE LAYOUT	JW14289R-602	EXCAVATION & PLATFORM DETAILS
JW14289R-104	FOUNDATION & SURFACE BED LAYOUT	JW14289R-603	BULK EARTHWORK SETTING OUT POINTS

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	DRAWN	W.T	27/07/2015						N.T.S	T	ISSUE FOR TENDER	20/08/2024	JW14289R PROJECT No: 000 DRAWING No: 1 REV.
	CHECKED	L.D.J	07/10/2019										A1 ORIGINAL PAGE SIZE FILE No.
	APPROVED BY: K. GOVENDER	SIGNATURE	DATE										
	ECSA REG. No.	201470227											
	CHECKED												
	APPROVED BY: E. MUDAU	SIGNATURE	DATE										
	ECSA REG. No.												



SOCKETED PIPES - A SET BETWEEN 0° AND UP TO 3° SHALL BE TAKEN IN THE SOCKET

PLAIN ENDED PIPES - A SET BETWEEN 0° AND UP TO 2° SHALL BE FORMED BY MITRING ON THE PIPE ENDS AND TRENCH BED BONED OUT TO SUIT

DEFLECTION ANGLE EXCEEDING 2° OR 3° AND UP TO 15° AS DETAILED

TAPER DETAILS				
PIPE DIAMETER	D*	b*	c	d
2 100	2 100	1 400	2 450	1 490
1 400	1 400	1 000	1 400	1 400
1 200	1 200	800	1 400	1 200
		600	2 100	1 050
1 100	1 100	800	1 050	1 800
		600	1 750	1 050
900	900	600	1 050	650
900	900	400	1 750	650
800	800	600	700	650
800	800	400	1 400	650
700	700	600	350	650
700	700	400	1 050	550
600	600	400	700	550
500	500	300	700	500
400	400	300	350	500

BENDS DETAILS						Z	TO BE CALCULATED INDIVIDUALLY
PIPE DIAMETER	D	T	S	Rad. R			
2 100	2 100	526	1 052	4 200			
1 400	1 400	368	736	2 800			
1 200	1 200	314	628	2 400			
1 100	1 100	290	580	2 200			
900	900	237	474	1 800			
800	800	211	422	1 600			
700	700	184	368	1 400			
600	600	158	316	1 200			
500	500	132	264	1000			
400	400	105	210	800			
300	300	78	156	600			



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APPROVED BY: K. GOVENDER	SIGNATURE	DATE
ECSA REG. No.	201470227	
CHECKED		
APPROVED BY: E. MUDAU	SIGNATURE	DATE
ECSA REG. No.		



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65 NTEMI PILISO STREET
NEWTOWN
2113

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FAX: (011) 688-6604

Joburg

JW14289R : CONSTRUCTION OF 22 ML WOODMEAD RESERVOIR

STEEL PIPE TAPER AND BEND DETAILS



1) FROM TABLE 3: NO SEGMENTS
2) $B^{\circ}/2 + B^{\circ}/2 + 0 \times B^{\circ} = 4^{\circ}$
 $B^{\circ} = 4^{\circ}$
 $B^{\circ}/2 = 2^{\circ}$

DEFLECTION °	NUMBER OF FULL SEGMENTS
> 0 - 15	0
> 15 - 30	1
> 30 - 45	2
> 45 - 60	3
> 60 - 75	4
> 75 - 90	5

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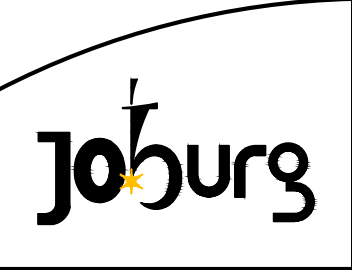
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NOTES:

1. NAME BOARD TO BE APPROVED BY
ENGINEER BEFORE IT IS ORDERD.

4800	
3457	1247
96	97
2400	PROJECT DETAILS: CONTRACT NO.: JW14289RR WOODMEAD RESERVOIR 22ML
	CONSULTANT:
	TEL: 012 424 9700
	CONTRACTOR:
	TEL.....
CLIENT JOHANNESBURG WATER- INVESTMENT DELIVERY TEL: 011 688 1654	
780	
540	
540	
540	
540	

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HELPDESK (011)375-5555


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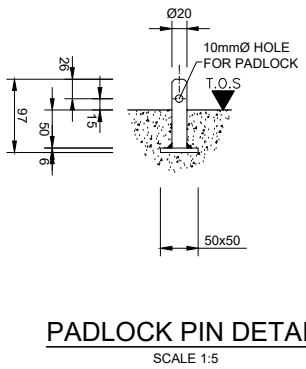
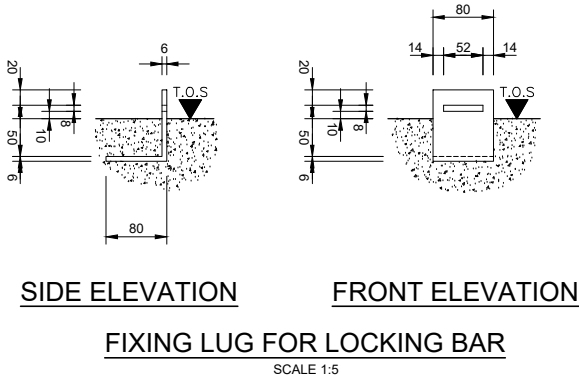
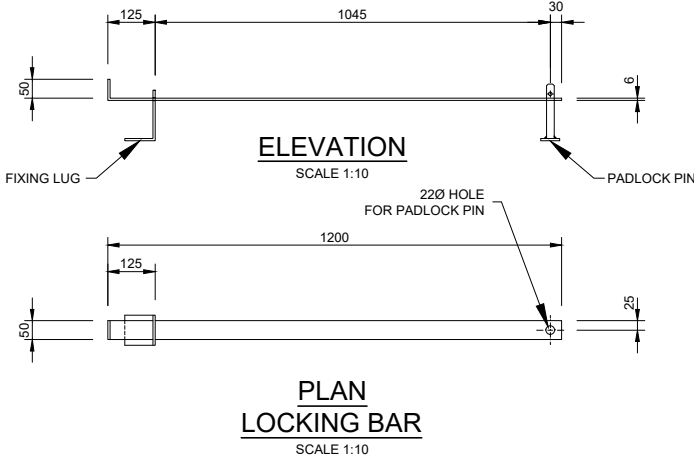
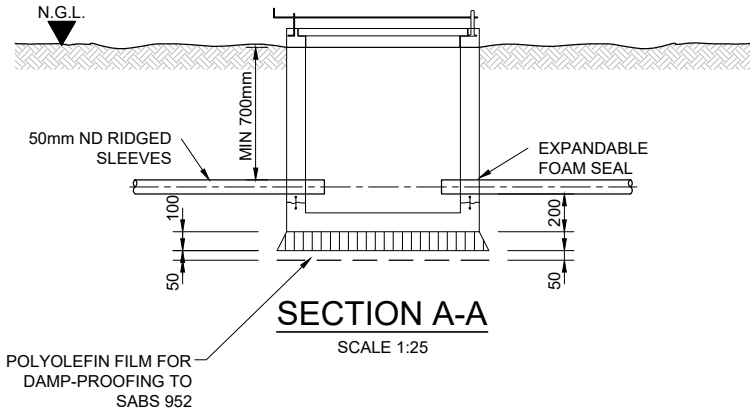
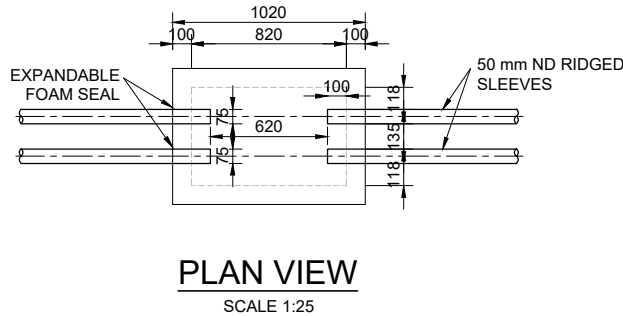
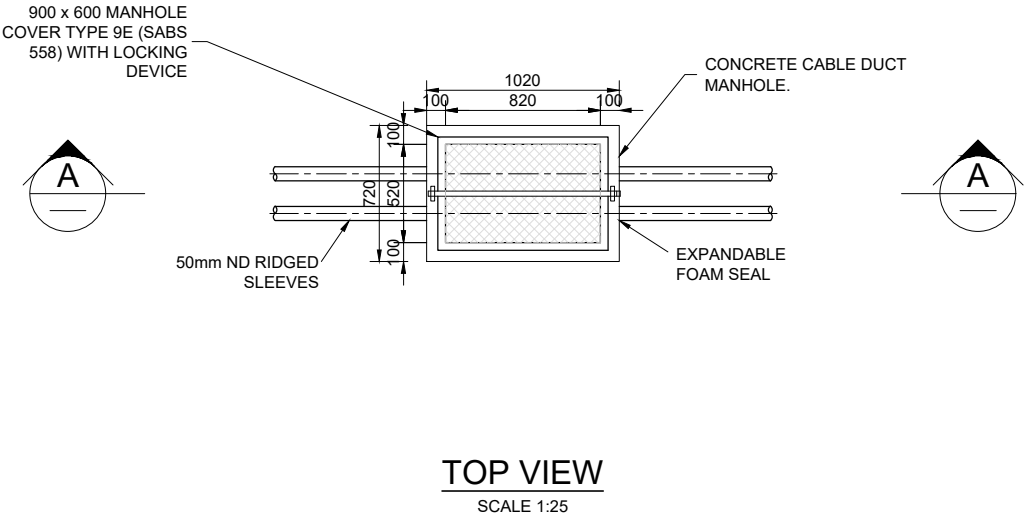

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	CHECKED	L.D.J	07/10/2019								
	APPROVED BY: K. GOVENDER	SIGNATURE	DATE								
	ECSA REG. No.	201470227									
	CHECKED										
	APPROVED BY: E. MUDAU	SIGNATURE	DATE								
	ECSA REG. No.										

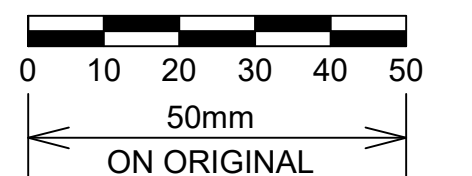
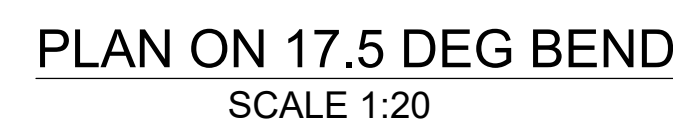
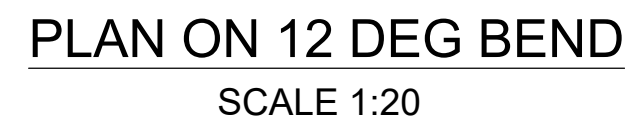
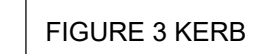
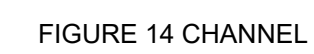
NOTES:
CABLE DUCTS TRENCHING:

- A. BEDDING MATERIAL: SHALL BE A SELECTED SOIL OF A GRANULAR NATURE, FREE FROM VEGETATION, LUMPS AND STONES EXCEEDING 15 mm DIAMETER.
B. BACKFILL: MATERIAL EXCAVATED FROM A TRENCH MAY BE USED AS BACKFILL PROVIDED THAT IT CONTAINS NO RUBBLE OR OTHER DEBRIS, THAT IT EXCLUDES STONES GREATER THAN 150 mm OF AVERAGE DIMENSION AND CAN BE COMPACTED TO AT LEAST 90% MODIFIED AASHTO DENSITY.

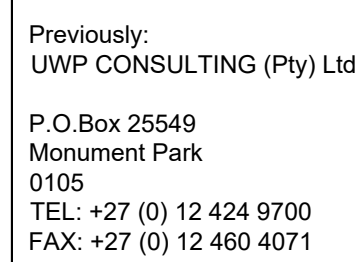


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	DRAWN	W.T	27/07/2015					AS SHOWN	T	ISSUE FOR TENDER	20/08/2024	
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	APPROVED BY: K. GOVENDER	SIGNATURE	DATE									
	ECSA REG. No.	201470227										
	CHECKED											
	APPROVED BY: E. MUDAU	SIGNATURE	DATE									
	ECSA REG. No.											



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ECSA REG. No.		

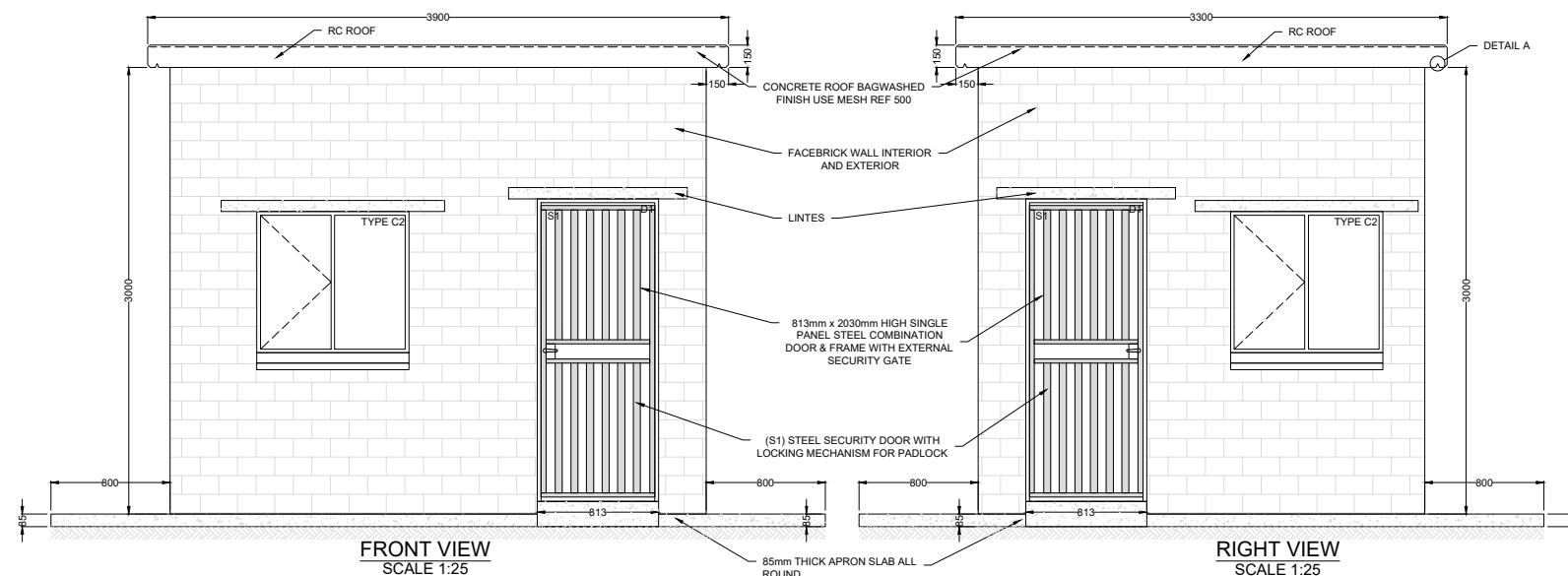
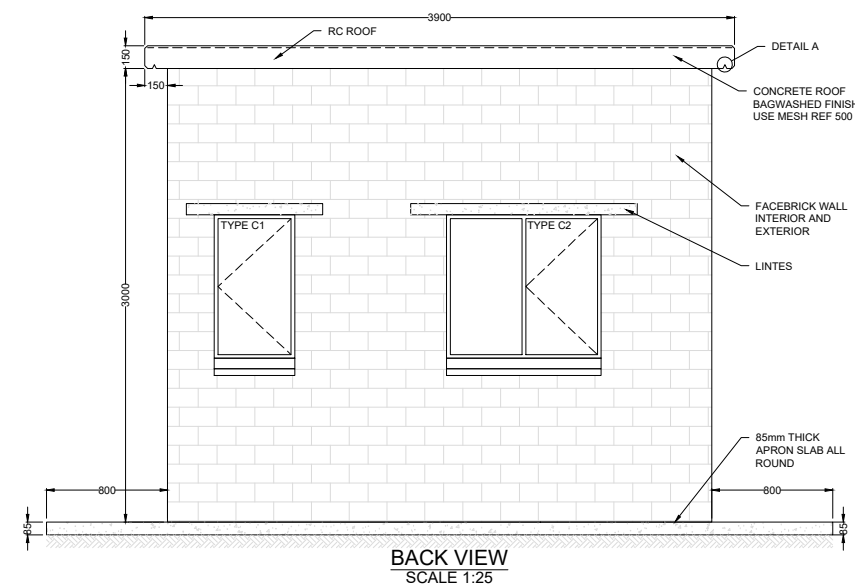
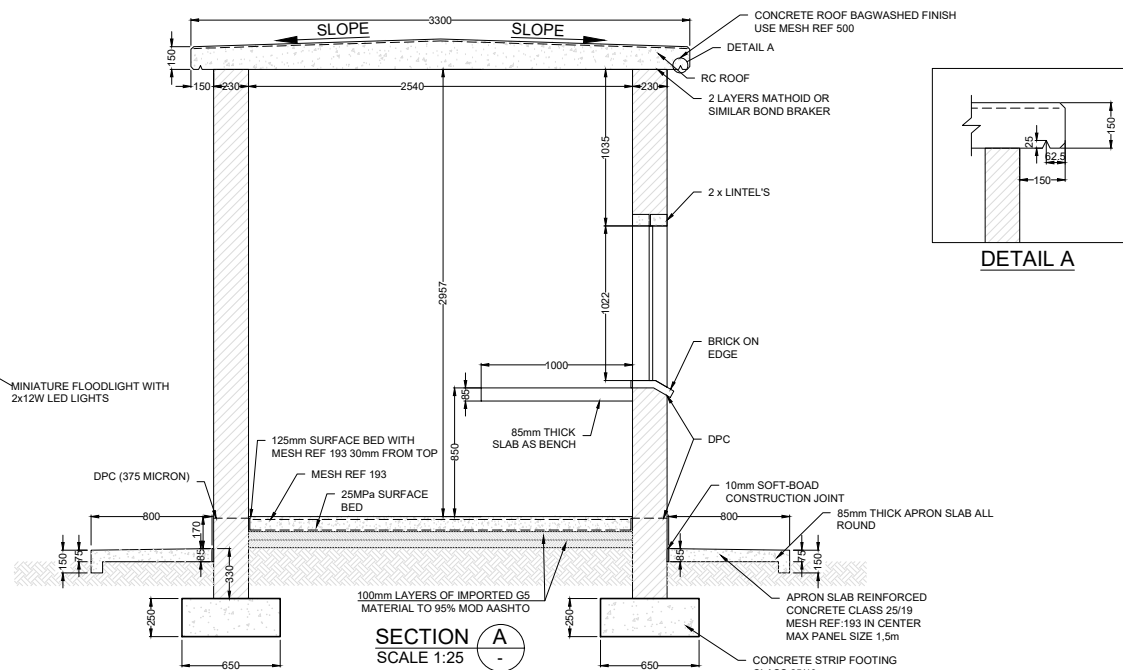
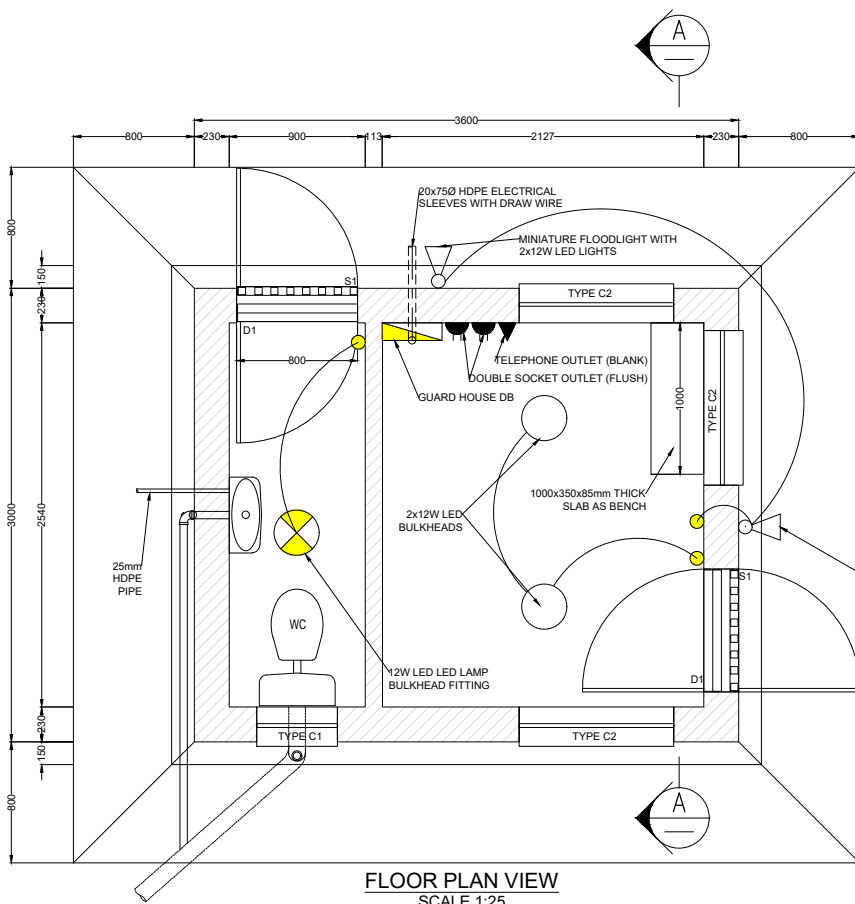


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JW14289R : CONSTRUCTION OF 22 ML WOODMEAD RESERVOIR

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NOTES:

SPECIFIC NOTES

1. FIXING BOLTS FOR WASHTROUGH SHOULD NOT BE MORE THAN 30mm FROM CORNER OF METAL FRAME.
2. THE 50mm HOLDERBAT SHOULD NOT BE MORE THAN 50mm BELOW THE VENT VALE.
3. FIT THE WASTE WATER PIPE FROM THE WASHTROUGH TO THE SOIL PIPE. A 50x50mm PVC-U 95° JUNCTION SHOULD BE USED. CARE SHOULD BE TAKEN NOT TO INSTALL THE JUNCTION UPSIDE DOWN.
4. THE 110mmØ PIPE FROM THE TOILET PAN TO THE 110mmØ VENTHORN BEND AND THE VERTICAL 110mmØ PIPE DOWN TO THE ¼ BEND BELOW GROUND SHOULD BE OF 110mmØ SOIL VENT WASTE (SVW) PIPE. "THE WHITE PIPE".
5. DAMP COURSE TO BE PLACED AT THE BOTTOM OF THE WALL.
6. BRICKFORCE SHOULD BE PLACED BETWEEN THE BOTTOM THREE LAYERS AND REPEATED IN EVERY FOURTH LAYER ABOVE.
8. THE FLUSHING LEVER OF THE CISTERN SHOULD BE ON THE SAME SIDE AS THE WATER INLET TO THE CISTERN.
9. TOILET TO BE TYPICAL LOW LEVEL WC SUITE WITH MATERIAL TO BE CERAMIC-VITREOUS CHINA TO SANS 497. SINGLE FLUSH CISTERN TO HAVE 9L CAPACITY. HEAVY DUTY PLASTIC SEAT TO BE INCLUDED.
10. WASHBASIN TO BE CERMIC-VITREOUS CHINA WITH CP OVERFLOW. DIMENSIONS OF WASHBASIN TO BE DETERMINED ON SITE. SINGLE 20mm TAP TO BE BASIN-MOUNTED AND OF TRADITIONAL PILLAR-TYPE.

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS REQUIREMENTS. (UNLESS OTHERWISE SPECIFIED).
2. DO NOT SCALE FROM THIS DRAWINGS.
4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.

TYPE D1 : 813mm x 2030mm HIGH SINGLE PANEL STEEL COMBINATION DOOR & FRAME WITH EXTERNAL SECURITY GATE.

TYPE C1 : 533mm x 969mm STEEL WINDOW FRAME WITH UNDERCOATED PAINT.

TYPE C2 : 1022mm x 949mm STEEL WINDOW FRAME WITH UNDERCOATED PAINT.

ELECTRICAL NOTES:

1. THE ELECTRICAL INSTALLATION SHALL CONFORM TO SANS 10142-1: WIRING OF PREMISES. LOW-VOLTAGE INSTALLATIONS AS WELL AS ALL APPLICABLE MUNICIPAL REGULATIONS.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EARTHING AND BONDING OF THE BUILDING.
3. THE BUILDING SHALL BE EQUIPPED WITH A DISTRIBUTION BOARD, EQUIPPED WITH EARTH LEAKAGE PROTECTION. TO BE POSITIONED ON THE WALL IN AN UNOBSTRUCTED POSITION AND MOUNTED FLUSH.
4. ALL CABLES SHALL BEAR THE SABS MARK.
5. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT BUILT INTO THE WALLS AND CEILING SLAB. ALL CONDUITS SHALL BEAR THE STAMP OF APPROVAL BY THE SABS.
6. THE SWITCHED SOCKET OUTLETS SHALL COMPLY WITH SANS 164. THE WIRING CIRCUIT FOR THE SWITCHED SOCKETS SHALL BE 2.5 MM SQ. PVC INSULATED STRANDED COPPER GENERAL PURPOSE WIRE WITH 2.5MM SQ. STRANDED COPPER EARTH WIRE.
7. THE BUILDING SHALL BE EQUIPPED WITH 3 X TUBULAR FLUORESCENT LAMP LUMINARIES FOR INDOOR USE, TWO IN THE MAIN OFFICE AND ONE IN THE ABLUTION SECTION. TYPE F2, SURFACE MOUNTED 1.2M X 2 LAMP (26 W) FLUORESCENT LIGHT FITTING WITH DIE FORMED GLASS FIBRE REINFORCED POLYESTER BODY, EQUIPPED WITH BI-PIN POLYCARBONATE ROTOLock LAMP HOLDERS. ALL CONTROL GEAR WITHIN THE LUMINARIES SHALL BEAR THE STAMP OF APPROVAL BY THE SABS. INSULATION CLASS IP55 (DUST AND VAPOUR PROOF).
8. EACH LUMINARIES SHALL HAVE A DEDICATED WALL MOUNTED LIGHT SWITCH, CONFORMING TO SANS 1663.
9. THE WIRING CIRCUIT FOR THE LUMINARIES SHALL BE 1.5 MM SQ. PVC INSULATED STRANDED COPPER GENERAL PURPOSE WIRE WITH 1.5MM SQ. STRANDED COPPER EARTH WIRE.
10. COMPLIANCE: THE CONTRACTOR SHALL TEST THE ENTIRE INSTALLATION IN TERMS OF THE ELECTRICAL INSTALLATION REGULATIONS 2009 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993, AND SHALL ISSUE A CERTIFICATE OF COMPLIANCE ON THE OFFICIAL FORM. ALL TESTS SHALL BE CARRIED OUT IN CONJUNCTION WITH AND TO THE SATISFACTION OF THE ENGINEER'S REPRESENTATIVE.

ISSUE FOR TENDER ONLY



Previously:
UWP CONSULTING (Pty) Ltd
P.O. Box 25549
Monument Park
0105
TEL: +27 (0) 12 424 9700
FAX: +27 (0) 12 460 4071

DESIGNED	L.D.J	18.06.2015
DRAWN	C.K	18.06.2015
CHECKED	L.D.J	07.10.2019
APPROVED BY: K. GOVENDER	SIGNATURE	DATE
ECSA REG. No.	201470227	
CHECKED		
APPROVED BY: E. MUDAU	SIGNATURE	DATE
ECSA REG. No.		



TURBINE HALL
65 NTEMI PILISO STREET
NEWTOWN
2113

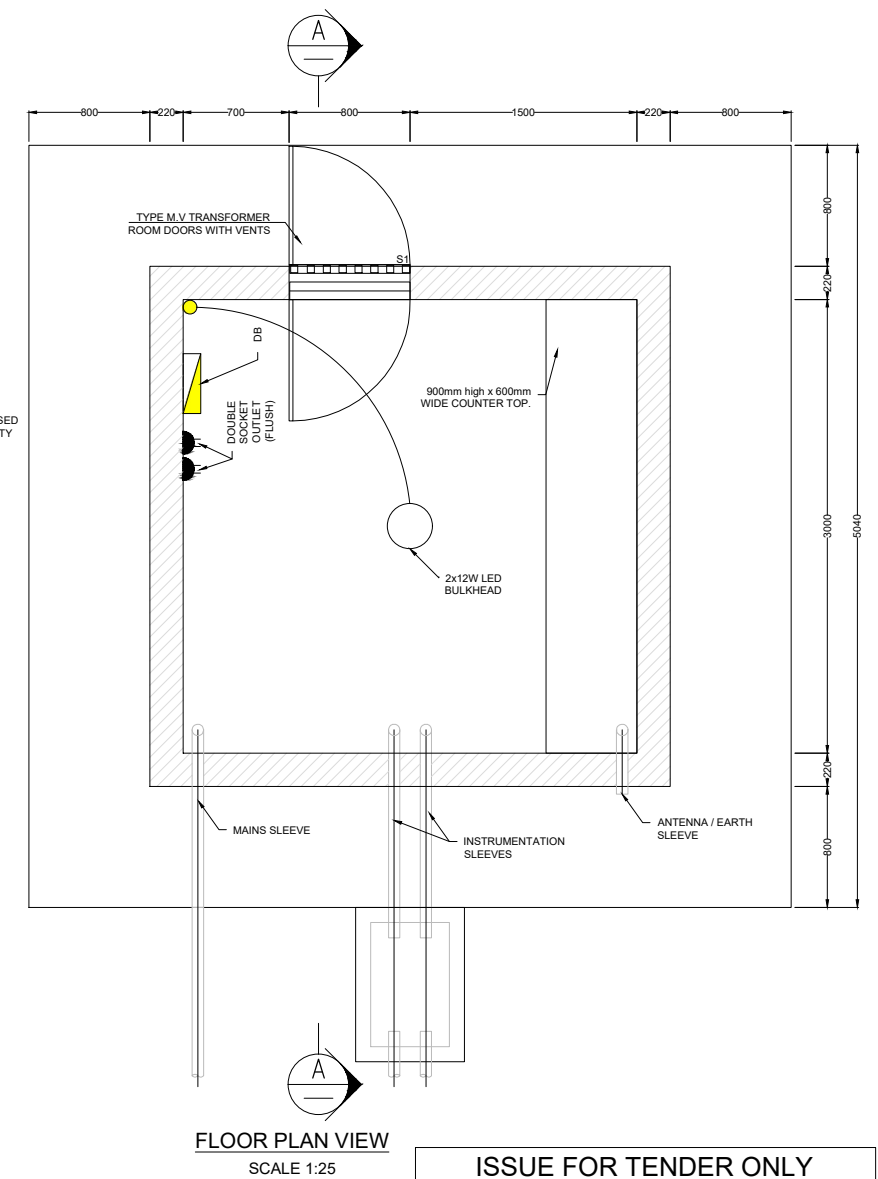
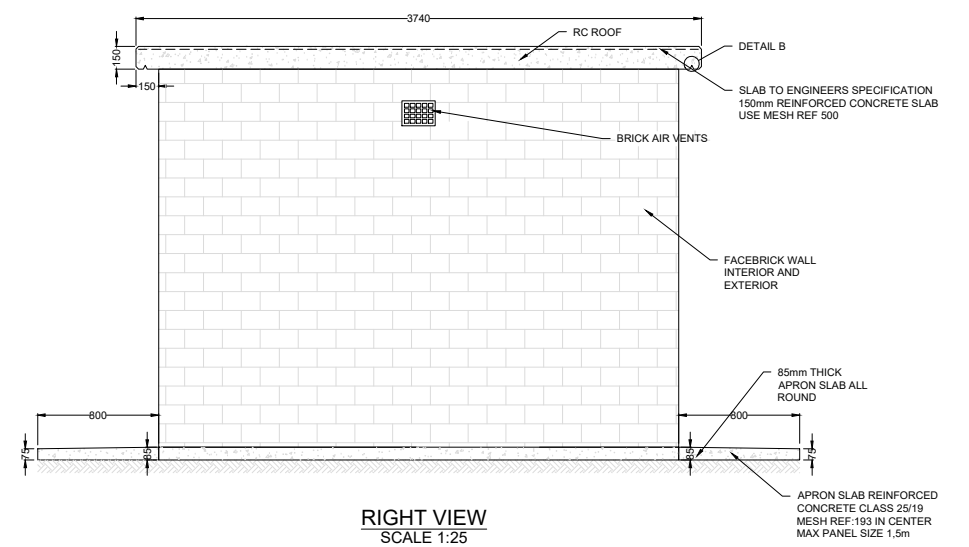
TEL: (011) 688-1542
FAX: (011) 688-6604



JW14289R : CONSTRUCTION OF 22 ML WOODMEAD RESERVOIR
GUARD HOUSE

SCALE	REV:	AMENDMENTS	APPROVED DATE:
N.T.S	T	ISSUE FOR TENDER	20/08/2024

DRAWING-No. JW14289R-240			
JW14289R	240	0	
PROJECT No.	DRAWING No.	REV.	
A1	1	1	
ORIGINAL PAGE SIZE			
FILE No.			



NOTES:

SPECIFIC NOTES

1. DAMP COURSE TO BE PLACED AT THE BOTTOM OF THE WALL.
2. BRICKFORCE SHOULD BE PLACED BETWEEN THE BOTTOM THREE LAYERS AND REPEATED IN EVERY FOURTH LAYER ABOVE.

GENERAL

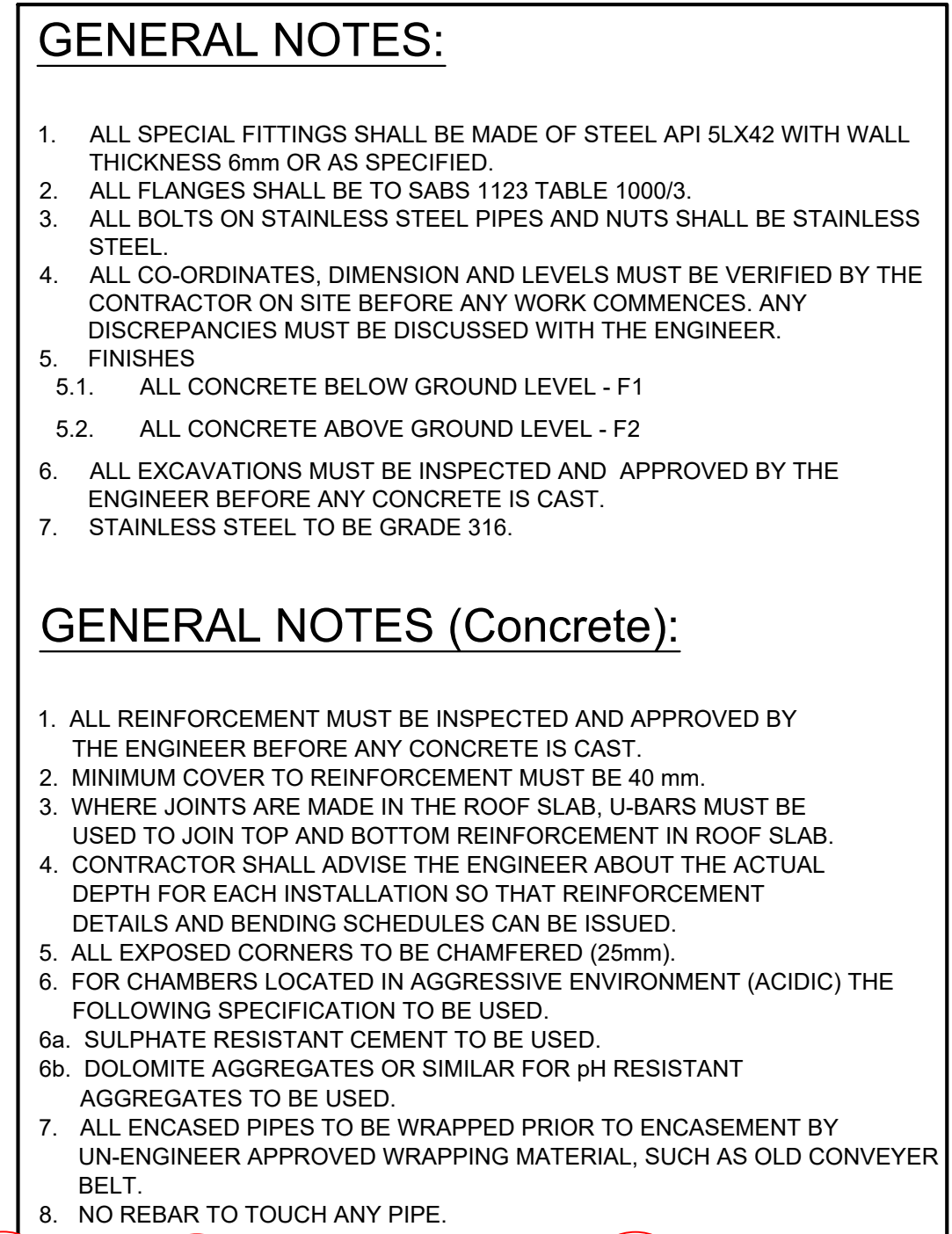
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS REQUIREMENTS.
2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED).
3. DO NOT SCALE FROM THIS DRAWINGS.
4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.

DOOR AND WINDOW NOTES:

TYPE D1 : 813mm x 2030mm HIGH SINGLE PANEL STEEL COMBINATION DOOR & FRAME WITH EXTERNAL SECURITY GATE.

TYPE C1 : 533mm x 969mm STEEL WINDOW FRAME WITH UNDERCOATED PAINT.

TYPE C2 : 1022mm x 949mm STEEL WINDOW FRAME WITH UNDERCOATED PAINT.



100

670

HYPALON BANDAGE
(250 WIDE)

DETAIL A

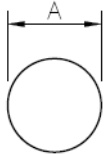
SCALE 1:20



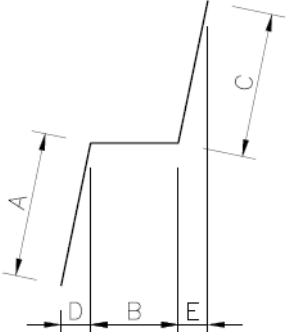
[illegible]

Surveyed by: P Caldwell and Associates
 Professional Land Surveyors
 Tel: 083-369-3382 Fax: 086-685-8602
 Email: pwcsurveys@rmweb.co.za
 Ref: 666/V1 Date: May/June 2015

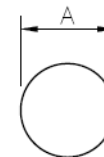
MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS												
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r											
BASE AND COLUMN STARTERS				01	Y12	52	22	1144	1600	35	1400															
				02	Y20	52	8	416	1750	37	300	(1500)														
				03	R8	52	4	208	1375	99	A=370	B=	C=	D=	E=											
											F=	G=200	H=	I=	J=											
				15	Y16	52	11	572	2800	55	250	525	1400	525	(250)											
				16	Y16	52	11	572	2725	55	250	490	1400	490	(250)											
COLUMN				03	R8	52	53	2756	1375	99	A=370	B=	C=	D=	E=											
											F=	G=200	H=	I=	J=											
				04	Y20	52	8	416	7250	37	205	(7080)														
				05	Y12	52	4	208	1875	42	565	1010	255	820												
				06	Y12	52	8	416	1450	45	1005	350	(150)	825												
				14	Y20	52	8	416	4800	20																
				17a	R8	52	1	52	1875	99	A=530	B=	C=	D=	E=											
											F=	G=200	H=	I=	J=											
				17b	R8	52	1	52	2950	99	A=870	B=	C=	D=	E=											
											F=	G=200	H=	I=	J=											
				17c	R8	52	1	52	4025	99	A=1210	B=	C=	D=	E=											
											F=	G=200	H=	I=	J=											
WALL				07	Y16	6	185	1110	6500	20																
				08	Y12	6	164	984	1475	38	650	235	(650)													
				09	Y16	6	438	2628	10000	20																
				10	Y10	6	1380	8280	500	85	125	260	80	(110)												
				11	Y16	6	146	876	3025	99	1845	650	595	190	120											
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	WOODMEAD RESERVOIR 22ML CONCRETE RESEVOIR			Project No.	JW14289R			Schedule No.			1			
	'R'		1768.9								1768.9	Project	WOODMEAD RESERVOIR BASES, COLUMNS & WALL			Ref. Dwg.	110B			Revision Suffex			0			
	'Y'			2566.8	3804.8	62102.2	14122.4				82596.1	Section	REINFORCEMENT DETAILS			Date	20/08/2024			Drawn	S.S			Checked		
	Total (Kg)		1768.9	2566.8	3804.8	62102.2	14122.4					84365														



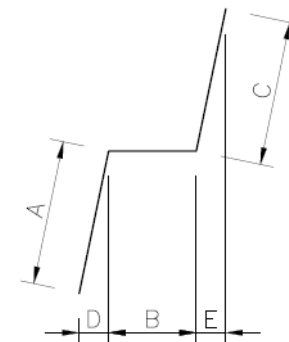
BAR MARK 03, 17



BAR MARK 11



BAR MARK 03, 17



BAR MARK 11

MEMBER				REINFORCEMENT						BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS					
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r						
WALL				12	Y16	6	146	876	1350	20											
				13	Y12	6	110	660	1825	60	250	600									
				18	Y12	6	42	252	1125	37	650	(500)									
				19	Y12	6	8	48	5650	20											
				20	Y20	6	185	1110	6500	20											
				31	Y16	6	21	126	5000	20											
				32	Y16	6	349	2094	5000	20											
OVERFLOW COL. & BASE				21	Y16	1	20	20	5275	37	5060	(240)									
				22	Y16	1	22	22	8200	55	500	1700	3960	1700	(500)						
				23	Y16	1	28	28	7350	55	500	1700	3100	1700	(500)						
				24	Y12	1	22	22	4175	35	3960										
				25	Y12	1	28	28	3300	35	3100										
				26	Y12	1	22	22	7550	38	2250	3100	(2250)								
				27	Y16	1	20	20	5125	20											
				28	Y16	1	20	20	3025	37	2550	(500)									
				29	R8	1	47	47	4575	60	1100	1100									
				30	R8	1	3	3	4450	60	1070	1070									
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	WOODMEAD RESERVOIR 22ML CONCRETE RESEVOIR			Project No. JW14289R		Schedule No. 2			
	'R'		89.1								89.1	Project	WOODMEAD RESERVOIR BASES, COLUMNS & WALL			Ref. Dwg. 110B		Revision Suffex 0			
	'Y'				1877.5	20440.9	17748.9				40067.3		Section	REINFORCEMENT DETAILS			Date 20/08/2024		Drawn S.S		Checked
	Total (Kg)		89.1		1877.5	20440.9	17748.9				40156.4										

MEMBER				REINFORCEMENT						BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS							
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
TYPE 1				01	Y12	8	40	320	1025	34	920												
				02	Y12	8	40	320	1025	34	920												
				03a	Y12	8	2	16	625	35	425												
				03b	Y12	8	2	16	650	35	450												
				03c	Y12	8	2	16	700	35	480												
				03d	Y12	8	2	16	725	35	505												
				03e	Y12	8	2	16	750	35	535												
				03f	Y12	8	2	16	775	35	560												
				03g	Y12	8	2	16	800	35	585												
				03h	Y12	8	2	16	825	35	615												
				03i	Y12	8	2	16	850	35	640												
				03j	Y12	8	2	16	875	35	665												
				03k	Y12	8	2	16	900	35	695												
				03l	Y12	8	2	16	925	35	720												
				03m	Y12	8	2	16	950	35	745												
				03n	Y12	8	2	16	975	35	775												
				03o	Y12	8	2	16	1000	35	800												
				03p	Y12	8	2	16	1050	35	830												
				03q	Y12	8	2	16	1075	35	855												
				03r	Y12	8	2	16	1100	35	880												
				03s	Y12	8	2	16	1125	35	910												
				03t	Y12	8	2	16	1150	35	935												
				03u	Y12	8	2	16	1175	35	960												
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES: SURFACE BED REINFORCEMENT				Project No.		Schedule No.			
	'R'											Project		WOODMEAD RESERVOIR SURFACE BED				Ref. Dwg.		Revision Suffex			
	'Y'				854.4						854.4	Section						Date		Drawn		Checked	
	Total (Kg)				854.4						854.4							20/08/2024		S.S		S.S	

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS											
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r											
TYPE 1				04	Y12	8	8	64	6100	35	5900															
				05a	Y12	8	2	16	5450	35	5245															
				05b	Y12	8	2	16	4600	35	4395															
				05c	Y12	8	2	16	3750	35	3545															
				05d	Y12	8	2	16	2900	35	2695															
				SA	Y12	8	5	40	1000	83	300	110	300	300												
TYPE 2				11a	Y12	4	2	8	3625	34	3510															
				11b	Y12	4	2	8	3450	34	3340															
				11c	Y12	4	2	8	3275	34	3170															
				11d	Y12	4	2	8	3125	34	3005															
				11e	Y12	4	2	8	2950	34	2835															
				11f	Y12	4	2	8	2775	34	2665															
				11g	Y12	4	2	8	2600	34	2495															
				11h	Y12	4	2	8	2450	34	2330															
				11i	Y12	4	2	8	2275	34	2160															
				11j	Y12	4	2	8	2100	34	1990															
				11k	Y12	4	2	8	1925	34	1820															
				11l	Y12	4	2	8	1775	34	1655															
				11m	Y12	4	2	8	1600	34	1485															
				11n	Y12	4	2	8	1425	34	1315															
				11o	Y12	4	2	8	1250	34	1145															
				11p	Y12	4	2	8	1100	34	980															
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES: SURFACE BED REINFORCEMENT				Project No. JW 14289R		Schedule No. 2						
	'R'											Project		WOODMEAD RESERVOIR SURFACE BED				Ref. Dwg. 301B		Revision Suffex						
	'Y'				889.3						889.3	Section						Date 20/08/2024		Drawn S.S		Checked S.S				
	Total (Kg)				889.3						889.3															

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS								
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
TYPE 2				11q	Y12	4	2	8	925	34	810												
				12a	Y12	4	2	8	2300	34	2200												
				12b	Y12	4	2	8	2100	34	1985												
				12c	Y12	4	2	8	1875	34	1765												
				12d	Y12	4	2	8	1650	34	1550												
				12e	Y12	4	2	8	1450	34	1335												
				12f	Y12	4	2	8	1225	34	1115												
				12g	Y12	4	2	8	1000	34	900												
				21	Y12	4	40	160	2300	34	2195												
				22a	Y12	4	2	8	2425	35	2205												
				22b	Y12	4	2	8	2300	35	2090												
				22c	Y12	4	2	8	2200	35	1980												
				22d	Y12	4	2	8	2075	35	1865												
				22e	Y12	4	2	8	1975	35	1755												
				22f	Y12	4	2	8	1850	35	1640												
				22g	Y12	4	2	8	1750	35	1530												
				22h	Y12	4	2	8	1625	35	1415												
				22i	Y12	4	2	8	1525	35	1305												
				22j	Y12	4	2	8	1400	35	1190												
				22k	Y12	4	2	8	1300	35	1080												
				22l	Y12	4	2	8	1175	35	965												
				23a	Y12	4	2	8	825	34	710												
				23b	Y12	4	2	8	900	34	800												
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	BENDING SCHEDULES: SURFACE BED REINFORCEMENT				Project No. JW 14289R		Schedule No. 3				
	'R'											Project	WOODMEAD RESERVOIR SURFACE BED				Ref. Dwg. 301B		Revision Suffex				
	'Y'				582.8						582.8	Section					Date 20/08/2024		Drawn S.S		Checked S.S		
	Total (Kg)				582.8						582.8												

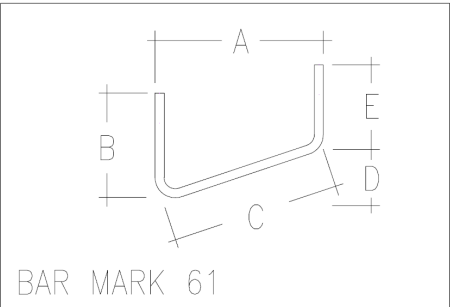
MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETAILS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r							
TYPE 2				23c	Y12	4	2	8	1000	34	895											
				23d	Y12	4	2	8	1100	34	985											
				23e	Y12	4	2	8	1200	34	1080											
				23f	Y12	4	2	8	1275	34	1170											
				23g	Y12	4	2	8	1375	34	1265											
				23h	Y12	4	2	8	1475	34	1355											
				23i	Y12	4	2	8	1550	34	1450											
				23j	Y12	4	2	8	1650	34	1540											
				23k	Y12	4	2	8	1750	34	1635											
				23l	Y12	4	2	8	1825	34	1725											
				23m	Y12	4	2	8	1925	34	1820											
				23n	Y12	4	2	8	2025	34	1910											
				23o	Y12	4	2	8	2100	34	2000											
				23p	Y12	4	2	8	2200	34	2095											
				23q	Y12	4	2	8	2300	34	2185											
				23r	Y12	4	2	8	2400	34	2280											
				23s	Y12	4	2	8	2475	34	2370											
				23t	Y12	4	2	8	2575	34	2465											
				24a	Y12	4	2	8	1275	35	1060											
				24b	Y12	4	2	8	1100	35	885											
				24c	Y12	4	2	8	925	35	705											
				24d	Y12	4	2	8	750	35	530											
				25	Y12	4	14	56	1100	34	1000											
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES:			Project No.		Schedule No.			
	'R'													SURFACE BED REINFORCEMENT			JW 14289R		4			
	'Y'				312.9						312.9	Project		WOODMEAD RESERVOIR SURFACE BED			Ref. Dwg. 301B		Revision Suffex			
	Total (Kg)				312.9						312.9	Section					Date		Drawn		Checked	
																	20/08/2024		S.S		S.S	

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETAILS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r							
TYPE 2				26a	Y12	4	1	4	2100	60	150	835										
				26b	Y12	4	1	4	1800	60	150	695										
				26c	Y12	4	1	4	1550	60	150	560										
				26d	Y12	4	1	4	1250	60	150	420										
				26e	Y12	4	1	4	1000	60	150	285										
				26f	Y12	4	1	4	700	60	150	145										
				27	Y12	4	34	136	2700	34	2600											
				SA	Y12	4	12	48	1000	83	300	110	300	300								
TYPE 3				31	Y12	8	36	288	2800	34	2700											
				32	Y12	8	36	288	3125	34	3020											
				33	Y12	8	46	368	3975	34	3860											
				34	Y12	8	46	368	3100	34	3000											
				35	Y12	8	64	512	3200	34	3090											
				36	Y12	8	10	80	3250	34	3130											
				37a	Y12	8	2	16	2950	35	2730											
				37b	Y12	8	2	16	2500	35	2280											
				37c	Y12	8	2	16	2050	35	1830											
				37d	Y12	8	2	16	1600	35	1380											
				37e	Y12	8	2	16	1150	35	930											
				37f	Y12	8	2	16	700	35	480											
				38	Y12	8	10	80	1950	34	1850											
				39	Y12	8	64	512	3450	34	3340											
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES: SURFACE BED REINFORCEMENT			Project No. JW 14289R		Schedule No. 5			
	'R'											Project		WOODMEAD RESERVOIR SURFACE BED			Ref. Dwg. 301B		Revision Suffex			
	'Y'				7791.8						7791.8	Section					Date		Drawn		Checked	
	Total (Kg)				7791.8						7791.8								S.S		S.S	

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS											
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
TYPE 3				SA	Y12	8	31	248	1000	83	300	110	300	300										
TYPE 4				41	Y12	44	82	3608	6100	35	5890													
				42	Y12	44	82	3608	6100	35	5890													
				SA	Y12	44	35	1540	1000	83	300	110	300	300										
TYPE 5				51a	Y12	4	2	8	2200	35	1980													
				51b	Y12	4	2	8	2000	35	1790													
				51c	Y12	4	2	8	1825	35	1605													
				51d	Y12	4	2	8	1625	35	1415													
				51e	Y12	4	2	8	1450	35	1230													
				51f	Y12	4	2	8	1250	35	1040													
				52a	Y12	4	2	8	4175	34	4060													
				52b	Y12	4	2	8	4000	34	3885													
				52c	Y12	4	2	8	3825	34	3710													
				52d	Y12	4	2	8	3650	34	3535													
				52e	Y12	4	2	8	3475	34	3365													
				52f	Y12	4	2	8	3300	34	3190													
				52g	Y12	4	2	8	3125	34	3015													
				52h	Y12	4	2	8	2950	34	2840													
				52i	Y12	4	2	8	2775	34	2665													
				52j	Y12	4	2	8	2600	34	2490													
				52k	Y12	4	2	8	2425	34	2320													
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES:										Project No.
	'R'													SURFACE BED REINFORCEMENT			JW 14289 R		6					
	'Y'				41099.1						41099.1	Project		WOODMEAD RESERVOIR SURFACE BED			Ref. Dwg.		301B		Revision Suffex			
	Total (Kg)				41099.1						41099.1	Section					Date		20/08/2024		Drawn		Checked	
																			S.S		S.S			

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
TYPE 5				52l	Y12	4	2	8	2250	34	2145												
				52m	Y12	4	2	8	2075	34	1970												
				52n	Y12	4	2	8	1900	34	1795												
				52o	Y12	4	2	8	1725	34	1620												
				52p	Y12	4	2	8	1550	34	1445												
				52q	Y12	4	2	8	1375	34	1275												
				52r	Y12	4	2	8	1200	34	1100												
				52s	Y12	4	2	8	1025	34	925												
				52t	Y12	4	2	8	850	34	750												
				53	Y12	4	40	160	2150	34	2045												
				54	Y12	4	30	120	2825	34	2705												
				55a	Y12	4	2	8	2925	35	2715												
				55b	Y12	4	2	8	2825	35	2610												
				55c	Y12	4	2	8	2725	35	2505												
				55d	Y12	4	2	8	2600	35	2395												
				55e	Y12	4	2	8	2500	35	2290												
				55f	Y12	4	2	8	2400	35	2185												
				55g	Y12	4	2	8	2275	35	2075												
				55h	Y12	4	2	8	2175	35	1970												
				55i	Y12	4	2	8	2075	35	1860												
				55j	Y12	4	2	8	1975	35	1755												
				55k	Y12	4	2	8	1850	35	1650												
				55l	Y12	4	2	8	1750	35	1540												
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	BENDING SCHEDULES:			Project No.		Schedule No.					
	'R'												SURFACE BED REINFORCEMENT			JW14289R		7					
	'Y'				907.1						907.1	Project	WOODMEAD RESERVOIR SURFACE BED			Ref. Dwg. 301B		Revision Suffex					
	Total (Kg)				907.1						907.1	Section				Date 20/08/2024		Drawn S.S		Checked S.S			

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
TYPE 5				55m	Y12	4	2	8	1650	35	1435												
				55n	Y12	4	2	8	1550	35	1330												
				55o	Y12	4	2	8	1425	35	1220												
				56a	Y12	4	1	4	2550	60	125	1090											
				56b	Y12	4	1	4	2275	60	125	955											
				56c	Y12	4	1	4	2025	60	125	825											
				56d	Y12	4	1	4	1750	60	125	690											
				56e	Y12	4	1	4	1475	60	125	555											
				56f	Y12	4	1	4	1225	60	125	425											
				56g	Y12	4	1	4	950	60	125	290											
				57a	Y12	4	2	8	800	34	700												
				57b	Y12	4	2	8	900	34	785												
				57c	Y12	4	2	8	975	34	870												
				57d	Y12	4	2	8	1075	34	955												
				57e	Y12	4	2	8	1150	34	1045												
				57f	Y12	4	2	8	1250	34	1130												
				57g	Y12	4	2	8	1325	34	1215												
				57h	Y12	4	2	8	1400	34	1300												
				57i	Y12	4	2	8	1500	34	1385												
				57j	Y12	4	2	8	1575	34	1470												
				57k	Y12	4	2	8	1675	34	1555												
				57l	Y12	4	2	8	1750	34	1645												
				57m	Y12	4	2	8	1850	34	1730												
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	BENDING SCHEDULES: SURFACE BED REINFORCEMENT				Project No. JW 14289R		Schedule No. 8				
	'R'											Project	WOODMEAD RESERVOIR SURFACE BED				Ref. Dwg. 301B		Revision Suffex				
	'Y'				199.2						199.2	Section					Date 20/08/2024		Drawn S.S		Checked S.S		
	Total (Kg)				199.2						199.2												

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS											
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
TYPE 5				57n	Y12	4	2	8	1925	34	1815														
				57o	Y12	4	2	8	2000	34	1900														
				SA	Y12	4	12	48	1000	83	300	110	300	300											
INLET_OUTLET OVERFLOW				61	Y10	4	24	96	1675	99	150	810	140	40	770										
				62	Y12	4	34	136	1225	60	250	305													
				63	Y10	4	6	24	1675	20															

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
BASE SLAB				02	Y12	1	16	16	2900	55	400	145	1920	145	(400)									
				03	Y12	1	16	16	2125	38	130	1920	(130)											
				04	Y12	1	11	11	3950	55	400	170	2920	170	(400)									
				05	Y12	1	11	11	3125	38	130	2920	(130)											
				06	Y12	1	4	4	1300	83	350	135	400	400										
DETAIL 2				16	Y12	2	16	32	1400	20														
				17	Y12	2	16	32	1200	20														
WALL 1				01	Y12	1	13	13	2000	38	950	140	(950)											
				07	Y12	1	13	13	1300	38	600	140	(600)											
				08	Y12	1	24	24	1925	38	900	170	(900)											
				09	Y12	1	6	6	1425	37	1320	(130)												
				11	Y12	1	24	24	2000	20														
				13	R8	1	6	6	375	85	120	170	50	(85)										
				14	Y12	1	20	20	2400	20														
				19	Y12	1	12	12	975	37	850	(140)												
				27	Y12	1	23	23	650	20														
				28	Y12	1	1	1	2900	20														
				37	Y16	1	8	8	1675	37	1250	(450)												
				38	Y16	1	8	8	2000	20														
				39	Y12	1	8	8	700	37	600	(130)												
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	STORMWATER CHAMBER REINFORCEMENT DETAILS											Project No. JW14289R
	'R'		0.9								0.9	Project	WOODMEAD RESERVOIR			Ref. Dwg. 400B		Revision Suffix						
	'Y'				423.1	46.5					469.6	Section	STORMWATER CHAMBER			Date 20/08/2024		Drawn TT		Checked DG				
	Total (Kg)		0.9		423.1	46.5					470.5													

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS																		
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r																		
WALL 2				01	Y12	1	13	13	2000	38	950	140	(950)																				
				07	Y12	1	6	6	1300	38	600	140	(600)																				
				08	Y12	1	24	24	1925	38	900	170	(900)																				
				11	Y12	1	12	12	2000	20																							
				13	R8	1	6	6	375	85	120	170	50	(85)																			
				14	Y12	1	20	20	2400	20																							
				21	Y12	1	14	14	1900	37	1800	(130)																					
				27	Y12	1	12	12	650	20																							
				37	Y16	1	8	8	1675	37	1250	(450)																					
				38	Y16	1	8	8	2000	20																							
				39	Y12	1	8	8	700	37	600	(130)																					
				40	Y12	1	8	8	300	20																							
				41	Y12	1	2	2	675	20																							
WALL 3				01	Y12	1	9	9	2000	38	950	140	(950)																				
				07	Y12	1	3	3	1300	38	600	140	(600)																				
				11	Y12	1	6	6	2000	20																							
				13	R8	1	4	4	375	85	120	170	50	(85)																			
				15	Y12	1	20	20	1825	38	850	170	(850)																				
				22	Y12	1	12	12	1850	37	1750	(130)																					
				27	Y12	1	3	3	650	20																							
				30	Y12	1	1	1	600	20																							
				31	Y12	1	20	20	1400	20																							
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		STORMWATER CHAMBER REINFORCEMENT DETAILS				Project No.		JW14289R				Schedule No.				2					
	'R'		1.5								1.5	Project		WOODMEAD RESERVOIR				Ref. Dwg.		400B				Revision Suffex									
	'Y'				283.8	46.5					330.3	Section												0									
	Total (Kg)		1.5		283.8	46.5					331.8			STORMWATER CHAMBER				Date		20/08/2024				Drawn		TT		Checked				DG	

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)							FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
WALL 3				33	Y12	1	4	4	800	37	650	(160)													
				40	Y12	1	4	4	300	20															
WALL 4				01	Y12	1	9	9	2000	38	950	140	(950)												
				07	Y12	1	9	9	1300	38	600	140	(600)												
				11	Y12	1	14	14	2000	20															
				13	R8	1	4	4	375	85	120	170	50	(85)											
				15	Y12	1	24	24	1825	38	850	170	(850)												
				27	Y12	1	8	8	650	20															
				31	Y12	1	22	22	1400	20															
				34	Y12	1	1	1	2300	38	1100	145	(1100)												
				35	Y12	1	4	4	1850	37	1730	(150)													
				36	Y12	1	1	1	1900	20															
										</															

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS												
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
BASE SLAB				01	Y16	1	12	12	5800	55	400	220	4720	220	(400)										
				02	Y16	1	12	12	5000	38	170	4720	(170)												
				03	Y16	1	4	4	5050	55	400	220	3970	220	(400)										
				04	Y16	1	4	4	4250	38	170	3970	(170)												
				10	Y12	1	12	12	1375	83	350	170	400	400											
				12	Y16	1	21	21	3950	55	400	185	2930	185	(400)										
				13	Y16	1	21	21	3200	38	170	2930	(170)												
				14	Y16	1	4	4	3200	55	400	185	2180	185	(400)										
				15	Y16	1	4	4	2450	38	170	2180	(170)												
				46	Y12	1	6	6	975	37	640	(350)													
				47	Y10	1	6	6	1075	38	350	420	(350)												
				48	Y10	1	3	3	1050	38	350	395	(350)												
				52	Y12	1	2	2	475	37	350	(150)													
DETAIL 2				05	Y16	1	12	12	1175	38	160	920	(160)												
				06	Y12	1	3	3	1725	60	635	170													
				07	Y12	1	5	5	1800	60	670	170													
				08	Y16	1	6	6	1175	38	160	920	(160)												
				09	Y16	1	6	6	1800	55	300	220	920	220	(300)										
				11	Y12	1	8	8	850	37	720	(160)													
DETAIL 3				49	Y12	2	16	32	2000	20															
				50	Y12	2	16	32	1600	20															
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		OUTLET FLOW METER CHAMBER REINFORCEMENT DETAILS		Project No.		Schedule No.							
	'R'											Project		WOODMEAD RESERVOIR		Ref. Dwg.		Revision Suffex							
	'Y'			6	141.9	587					734.9	Section		OUTLET FLOW METER CHAMBER		Date		Drawn		Checked					
	Total (Kg)			6	141.9	587					734.9					20/08/2024		TT		DG					

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
WALL 2				20	Y12	1	22	22	1300	38	600	140	(600)												
				21	Y16	1	32	32	1800	38	850	170	(850)												
				22	Y12	1	32	32	4200	20															
				25	Y12	1	44	44	2975	20															
				27	R8	1	14	14	375	85	120	170	50	(85)											
				38	Y12	1	8	8	725	37	600	(150)													
				39	Y20	1	8	8	1600	37	1200	(450)													
				40	Y16	1	8	8	2975	20															
				43	Y16	1	22	22	1425	37	1000	(450)													
WALL 3				17	Y12	1	28	28	1425	37	1000	(450)													
				20	Y12	1	14	14	1300	38	600	140	(600)												
				23	Y12	1	6	6	1925	37	1800	(150)													
				25	Y12	1	24	24	2975	20															
				27	R8	1	8	8	375	85	120	170	50	(85)											
				29	Y12	1	28	28	2400	20															
				30	Y12	1	32	32	1725	38	800	170	(800)												
				51	Y12	1	12	12	800	20															
WALL 4				16	Y12	1	10	10	1875	37	1450	(450)													
				17	Y12	1	18	18	1425	37	1000	(450)													
				20	Y12	1	14	14	1300	38	600	140	(600)												
				23	Y12	1	6	6	1925	37	1800	(150)													
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		Project No.		Schedule No.									
	'R'		3.2								3.2	Project		JW14289R		3									
	'Y'				575.7	178.1	31.5				785.4	Section		Ref. Dwg. 406B		Revision Suffex									
	Total (Kg)		3.2		575.7	178.1	31.5				788.6			Date 20/08/2024		Drawn TT		Checked DG							
												OUTLET FLOW METER CHAMBER REINFORCEMENT DETAILS													
												WOODMEAD RESERVOIR													
												OUTLET FLOW METER CHAMBER													

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r							
ROOF SLAB				24	Y12	1	8	8	2900	20												
				33	R8	1	16	16	1125	83	350	110	300	300								
				34	Y12	1	8	8	2300	20												
				36	Y10	1	64	64	1000	38	450	140	(450)									
				37	Y10	1	52	52	975	38	450	120	(450)									
WALL 1				16	Y12	1	4	4	1875	37	1450	(450)										
				17	Y12	1	18	18	1425	37	1000	(450)										
				20	Y12	1	22	22	1300	38	600	140	(600)									
				21	Y16	1	32	32	1800	38	850	170	(850)									
				22	Y12	1	32	32	4200	20												
				25	Y12	1	44	44	2975	20												
				27	R8	1	14	14	375	85	120	170	50	(85)								
				28	Y12	1	12	12	875	37	770	(130)										
				38	Y12	1	8	8	725	37	600	(150)										
				39	Y20	1	4	4	1600	37	1200	(450)										
				40	Y16	1	4	4	2975	20												
				41	Y20	1	4	4	2050	37	1650	(450)										
				42	Y16	1	4	4	3075	20												
				43	Y16	1	18	18	1425	37	1000	(450)										
				44	Y16	1	4	4	1875	37	1450	(450)										
WALL 2				17	Y12	1	22	22	1425	37	1000	(450)										
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		OUTLET FLOW METER CHAMBER REINFORCEMENT DETAILS		Project No.		JW14289R		Schedule No.		2
	'R'		9.1								9.1	Project		WOODMEAD RESERVOIR		Ref. Dwg.		406B		Revision Suffex		
	'Y'			71.1	370.5	181.6	35.9				659.2	Section		OUTLET FLOW METER CHAMBER		Date		20/08/2024		Drawn		TT
	Total (Kg)		9.1	71.1	370.5	181.6	35.9				668.3									Checked		DG

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
WALL 4				25	Y12	1	24	24	2975	20													
				27	R8	1	8	8	375	85	120	170	50	(85)									
				28	Y12	1	12	12	875	37	770	(130)											
				29	Y12	1	28	28	2400	20													
				30	Y12	1	32	32	1725	38	800	170	(800)										
				51	Y12	1	12	12	800	20													
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title			OUTLET FLOW METER CHAMBER								
	'R'		1.2								1.2	Project			WOODMEAD RESERVOIR			Ref. Dwg.		Revision Suffex			
	'Y'				190.4						190.4	Section			OUTLET FLOW METER CHAMBER			Date		Drawn		Checked	
	Total (Kg)		1.2		190.4						191.6							20/08/2024		TT		DG	

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
BASE SLAB				01	Y12	1	10	10	4450	55	400	170	3420	170	(400)									
				02	Y12	1	10	10	3625	38	130	3420	(130)											
				03	Y12	1	4	4	3800	55	400	170	2770	170	(400)									
				04	Y12	1	4	4	2975	38	130	2770	(130)											
				10	Y12	1	5	5	1300	83	350	135	400	400										
				12	Y12	1	15	15	3400	55	400	145	2420	145	(400)									
				13	Y12	1	15	15	2625	38	130	2420	(130)											
				14	Y12	1	4	4	2750	55	400	145	1770	145	(400)									
				15	Y12	1	4	4	1975	38	130	1770	(130)											
				42	Y12	1	4	4	975	37	650	(350)												
				43	Y12	1	8	8	725	38	250	270	(250)											
				44	Y10	1	2	2	1000	38	400	245	(400)											
DETAIL 2				05	Y12	1	10	10	1025	38	130	820	(130)											
				06	Y12	1	3	3	1450	60	490	170												
				07	Y12	1	4	4	1600	60	570	170												
				08	Y12	1	5	5	1025	38	130	820	(130)											
				09	Y12	1	5	5	1650	55	300	170	820	170	(300)									
				11	Y12	1	8	8	800	37	690	(130)												
DETAIL 3				31	Y12	2	16	32	1500	20														
				32	Y10	2	16	32	1300	20														
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		OUTLET ISOLATION VALVE CHAMBER REINFORCEMENT DETAILS		Project No. JW14289R		Schedule No. 1						
	'R'											Project		WOODMEAD RESERVOIR		Ref. Dwg. 408B		Revision Suffex						
	'Y'			27	286.7						313.7	Section		OUTLET ISOLATION VALVE CHAMBER		Date 20/08/2024		Drawn TT		Checked DG				
	Total (Kg)			27	286.7						313.7													

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS			
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r	
ROOF SLAB				24	Y12	1	8	8	2400	20						
				33	R8	1	4	4	1125	83	350	110	300	300		
				34	Y12	1	8	8	3400	20						
				36	Y10	1	26	26	1000	38	450	140	(450)			
				37	Y10	1	36	36	975	38	450	120	(450)			
WALL 1				17	Y12	1	32	32	1475	37	1050	(450)				
				20	Y12	1	16	16	1300	38	600	140	(600)			
				21	Y12	1	30	30	1925	38	900	170	(900)			
				22	Y12	1	30	30	2900	20						
				25	Y12	1	32	32	2600	20						
				27	R8	1	8	8	375	85	120	170	50	(85)		
				39	Y16	1	8	8	1675	37	1250	(450)				
				40	Y16	1	8	8	2600	20						
				42	Y12	1	4	4	975	37	650	(350)				
				45	Y12	1	4	4	725	37	600	(150)				
WALL 2				16	Y12	1	8	8	1875	37	1450	(450)				
				17	Y12	1	24	24	1475	37	1050	(450)				
				20	Y12	1	16	16	1300	38	600	140	(600)			
				21	Y12	1	30	30	1925	38	900	170	(900)			
				22	Y12	1	30	30	2900	20						
				25	Y12	1	32	32	2600	20						
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		Project No.		Schedule No.
	'R'		2.9								2.9	OUTLET ISOLATION VALVE CHAMBER REINFORCEMENT DETAILS		JW14289R		2
	'Y'			37.9	577	54					668.9	Project		WOODMEAD RESERVOIR		Ref. Dwg. 408B
	Total (Kg)		2.9	37.9	577	54					671.8	Section		OUTLET ISOLATION VALVE CHAMBER		Date 20/08/2024
						Drawn		Checked								
						TT										DG

MEMBER				REINFORCEMENT						BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
WALL 2				27	R8	1	6	6	375	85	120	170	50	(85)											
				28	Y12	1	8	8	775	37	670	(130)													
				39	Y16	1	4	4	1675	37	1250	(450)													
				40	Y16	1	8	8	2600	20															
				41	Y16	1	4	4	2075	37	1650	(450)													
				42	Y12	1	6	6	975	37	650	(350)													
WALL 3				17	Y12	1	24	24	1475	37	1050	(450)													
				20	Y12	1	12	12	1300	38	600	140	(600)												
				23	Y12	1	8	8	1500	37	1380	(150)													
				25	Y12	1	20	20	2600	20															
				27	R8	1	6	6	375	85	120	170	50	(85)											
				29	Y12	1	24	24	2200	20															
				30	Y12	1	33	33	1925	38	900	170	(900)												
WALL 4				16	Y12	1	8	8	1875	37	1450	(450)													
				17	Y12	1	18	18	1475	37	1050	(450)													
				20	Y12	1	12	12	1300	38	600	140	(600)												
				23	Y12	1	8	8	1500	37	1380	(150)													
				25	Y12	1	20	20	2600	20															
				27	R8	1	6	6	375	85	120	170	50	(85)											
				28	Y12	1	8	8	775	37	670	(130)													
				29	Y12	1	24	24	2200	20															
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		OUTLET ISOLATION VALVE CHAMBER REINFORCEMENT DETAILS		Project No. JW14289R		Schedule No. 3							
	'R'		2.6								2.6	Project		WOODMEAD RESERVOIR		Ref. Dwg. 408B		Revision Suffex							
	'Y'				376.9	56.6					433.5	Section		OUTLET ISOLATION VALVE CHAMBER		Date 20/08/2024		Drawn TT		Checked DG					
	Total (Kg)		2.6		376.9	56.6					436.1														

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MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS													
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r													
BASE SLAB				01	Y12	1	10	10	3025	55	400	220	1900	220	(400)													
				02	Y12	1	10	10	2100	38	130	1900	(130)															
				03	Y12	1	4	4	2475	55	400	220	1350	220	(400)													
				04	Y12	1	4	4	1550	38	130	1350	(130)															
				10	Y12	1	4	4	1400	83	350	185	400	400														
				12	Y12	1	8	8	3275	55	400	195	2200	195	(400)													
				13	Y12	1	8	8	2400	38	130	2200	(130)															
				14	Y12	1	4	4	2725	55	400	195	1650	195	(400)													
				15	Y12	1	4	4	1850	38	130	1650	(130)															
DETAIL 2				05	Y12	1	10	10	925	38	130	720	(130)															
				06	Y12	1	2	2	1450	60	490	170																
				07	Y12	1	4	4	1400	60	470	170																
				08	Y12	1	5	5	925	38	130	720	(130)															
				09	Y12	1	5	5	1550	55	300	170	720	170	(300)													
				16	Y12	1	8	8	1775	37	1350	(450)																
				41	Y16	1	4	4	1975	37	1550	(450)																
DETAIL 3				31	Y12	2	16	32	1400	20																		
				32	Y10	2	16	32	1200	20																		
ROOF SLAB				24	Y10	1	8	8	2200	20																		
				33	R8	1	4	4	1125	83	350	110	300	300														
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		Project No.		Schedule No.												
	'R'		1.8								1.8	Project		WOODMEAD RESERVOIR		Ref. Dwg.												
	'Y'			34.7	200.9	12.5					248.1	Section		INSULATION GASKET KIT MANHOLE		Date												
	Total (Kg)		1.8	34.7	200.9	12.5					249.9					Drawn												
																Checked												
															409B		0											
															20/08/2024		T.T											

MEMBER				REINFORCEMENT						BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS								
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
ROOF SLAB				34	Y12	1	8	8	1900	20														
				36	Y10	1	25	25	1200	38	550	140	(550)											
				37	Y10	1	22	22	975	38	450	120	(450)											
WALL 1				17	Y12	1	10	10	1475	37	1050	(450)												
				20	Y12	1	9	9	1300	38	600	140	(600)											
				21	Y12	1	24	24	1825	38	850	170	(850)											
				22	Y12	1	24	24	1400	20														
				25	Y12	1	18	18	2150	20														
				27	R8	1	4	4	375	85	120	170	50	(85)										
				28	Y12	1	8	8	775	37	670	(130)												
				39	Y16	1	4	4	1675	37	1250	(450)												
				40	Y16	1	8	8	2150	20														
				42	Y12	1	8	8	725	37	600	(150)												
WALL 2				17	Y12	1	18	18	1475	37	1050	(450)												
				20	Y12	1	9	9	1300	38	600	140	(600)											
				21	Y12	1	24	24	1825	38	850	170	(850)											
				22	Y12	1	24	24	1400	20														
				25	Y12	1	18	18	2150	20														
				27	R8	1	4	4	375	85	120	170	50	(85)										
				39	Y16	1	8	8	1675	37	1250	(450)												
				40	Y16	1	8	8	2150	20														
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		INSULATION GASKET KIT MANHOLE		Project No.		Schedule No.						
	'R'		1.2								1.2	REINFORCEMENT DETAILS		JW14289R		2								
	'Y'			31.9	288.5	86.1					406.5	Project		WOODMEAD RESERVOIR		Ref. Dwg.		Revision Suffex						
	Total (Kg)		1.2	31.9	288.5	86.1					407.7	Section		INSULATION GASKET KIT MANHOLE		Date		Drawn		Checked				
															20/08/2024		T.T		DG					

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
WALL 2				42	Y12	1	8	8	725	37	600	(150)												
WALL 3				17	Y12	1	20	20	1475	37	1050	(450)												
				20	Y12	1	10	10	1300	38	600	140	(600)											
				23	Y12	1	4	4	1600	37	1450	(160)												
				25	Y12	1	16	16	2150	20														
				27	R8	1	4	4	375	85	120	170	50	(85)										
				29	Y12	1	22	22	1700	20														
				30	Y12	1	24	24	1625	38	750	170	(750)											
				43	Y12	1	12	12	675	37	550	(140)												
WALL 4				16	Y12	1	8	8	1775	37	1350	(450)												
				17	Y12	1	12	12	1475	37	1050	(450)												
				20	Y12	1	10	10	1300	38	600	140	(600)											
				23	Y12	1	4	4	1600	37	1450	(160)												
				25	Y12	1	16	16	2150	20														
				27	R8	1	4	4	375	85	120	170	50	(85)										
				28	Y12	1	8	8	775	37	670	(130)												
				29	Y12	1	22	22	1700	20														
				30	Y12	1	24	24	1625	38	750	170	(750)											
				43	Y12	1	12	12	675	37	550	(140)												
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title	INSULATION GASKET KIT MANHOLE REINFORCEMENT DETAILS			Project No. JW14289R		Schedule No. 3						
		'R'		1.2							1.2	Project	WOODMEAD RESERVOIR			Ref. Dwg. 409B		Revision Suffex						
	'Y'				311.5						311.5	Section	INSULATION GASKET KIT MANHOLE			Date 20/08/2024		Drawn T.T		Checked DG				
	Total (Kg)		1.2		311.5						312.7													

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
BASE SLAB				01	Y12	1	10	10	3550	55	400	220	2420	220	(400)									
				02	Y12	1	10	10	2625	38	130	2420	(130)											
				03	Y12	1	4	4	2800	55	400	220	1670	220	(400)									
				04	Y12	1	4	4	1875	38	130	1670	(130)											
				10	Y12	1	4	4	1400	83	350	185	400	400										
				12	Y12	1	10	10	3500	55	400	195	2420	195	(400)									
				13	Y12	1	10	10	2625	38	130	2420	(130)											
				14	Y12	1	4	4	2750	55	400	195	1670	195	(400)									
				15	Y12	1	4	4	1875	38	130	1670	(130)											
DETAIL 2				05	Y12	1	12	12	1125	38	130	920	(130)											
				06	Y12	1	3	3	1450	60	490	170												
				07	Y12	1	5	5	1800	60	670	170												
				08	Y12	1	6	6	1125	38	130	920	(130)											
				09	Y12	1	6	6	1850	55	300	220	920	220	(300)									
				11	Y12	1	8	8	800	37	690	(130)												
DETAIL 3				31	Y12	2	16	32	1400	20														
				32	Y12	2	16	32	1200	20														
ROOF SLAB				24	Y12	1	8	8	2400	20														
				33	R8	1	4	4	1125	83	350	110	300	300										
				34	Y10	1	8	8	2400	20														
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title			INLET FLOW METER CHAMBER REINFORCEMENT DETAILS			Project No.		Schedule No.				
	'R'		1.8								1.8	Project			WOODMEAD RESERVOIR			Ref. Dwg.		Revision Suffex				
	'Y'			11.9	284.2						296.1	Section			INLET FLOW METER CHAMBER			410B0						
	Total (Kg)		1.8	11.9	284.2						297.9							Date		Drawn		Checked		
																		20/08/2024		TT		DG		

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
ROOF SLAB				36	Y10	1	26	26	1000	38	450	140	(450)											
				37	Y10	1	26	26	975	38	450	120	(450)											
WALL 1				16	Y12	1	10	10	1825	37	1400	(450)												
				17	Y12	1	12	12	1375	37	950	(450)												
				20	Y12	1	11	11	1300	38	600	140	(600)											
				21	Y12	1	32	32	1825	38	850	170	(850)											
				22	Y12	1	32	32	1900	20														
				25	Y12	1	22	22	2800	20														
				27	R8	1	6	6	375	85	120	170	50	(85)										
				28	Y12	1	8	8	825	37	720	(130)												
				39	Y16	1	4	4	1525	37	1100	(450)												
				40	Y16	1	8	8	2800	20														
				41	Y16	1	4	4	2025	37	1600	(450)												
				42	Y12	1	8	8	750	37	600	(160)												
WALL 2				17	Y12	1	22	22	1375	37	950	(450)												
				20	Y12	1	15	15	1300	38	600	140	(600)											
				21	Y12	1	32	32	1825	38	850	170	(850)											
				22	Y12	1	32	32	1900	20														
				25	Y12	1	22	22	2800	20														
				27	R8	1	6	6	375	85	120	170	50	(85)										
				39	Y16	1	8	8	1525	37	1100	(450)												
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		Project No.		Schedule No.								
	'R'		1.8								1.8	Project		JW14289R		2								
	'Y'			31.8	421	77.1					529.9	Section		Ref. Dwg. 410B		Revision Suffex								
	Total (Kg)		1.8	31.8	421	77.1					531.7	INLET FLOW METER CHAMBER		Date 20/08/2024		Drawn TT Checked DG								

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r									
WALL 2				40	Y16	1	8	8	2800	20														
				42	Y12	1	4	4	750	37	600	(160)												
WALL 3				17	Y12	1	22	22	1375	37	950	(450)												
				20	Y12	1	11	11	1300	38	600	140	(600)											
				23	Y12	1	4	4	1975	37	1850	(150)												
				25	Y12	1	20	20	2800	20														
				27	R8	1	6	6	375	85	120	170	50	(85)										
				29	Y12	1	30	30	1900	20														
				30	Y12	1	32	32	1725	38	800	170	(800)											
				43	Y12	1	6	6	975	37	850	(140)												
				44	Y12	1	6	6	625	37	500	(140)												
WALL 4				16	Y12	1	10	10	1825	37	1400	(450)												
				17	Y12	1	12	12	1375	37	950	(450)												
				20	Y12	1	11	11	1300	38	600	140	(600)											
				23	Y12	1	4	4	1975	37	1850	(150)												
				25	Y12	1	20	20	2800	20														
				27	R8	1	6	6	375	85	120	170	50	(85)										
				28	Y12	1	8	8	825	37	720	(130)												
				29	Y12	1	30	30	1900	20														
				30	Y12	1	32	32	1725	38	800	170	(800)											
				43	Y12	1	6	6	975	37	850	(140)												
Masses (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title			Project No.			Schedule No.						
	'R'		1.8								1.8	Project			JW14289R			3						
	'Y'				419.1	35.4					454.4	Section			Ref. Dwg.			Revision Suffex						
	Total (Kg)		1.8		419.1	35.4					456.2				410B			0						
												Date			20/08/2024			Drawn		Checked				
																		TT		DG				

[illegible]

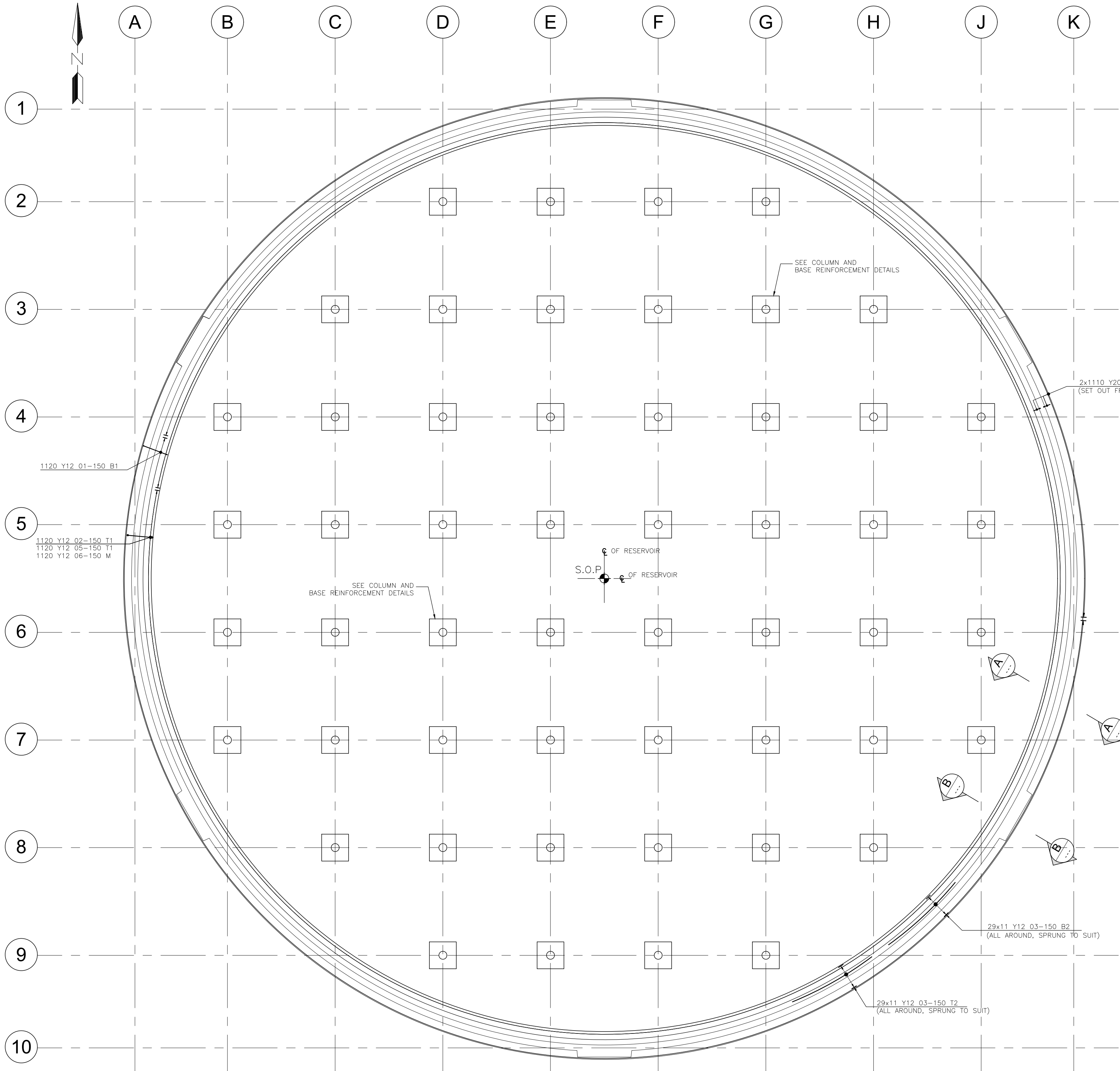
MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
ROOF SLAB BOTTOM REINF.				01	Y16	1	53	53	7900	20													
				02	Y16	1	198	198	11925	38	11300	155	(540)										
				03	Y16	1	91	91	11000	38	10375	155	(540)										
				04	Y16	1	52	52	9675	38	9040	155	(540)										
				05	Y16	1	190	190	11950	38	11300	190	(540)										
				06a	Y16	1	4	4	7925	38	7310	155	(540)										
				06b	Y16	1	4	4	7750	38	7125	155	(540)										
				06c	Y16	1	4	4	7550	38	6935	155	(540)										
				06d	Y16	1	4	4	7375	38	6750	155	(540)										
				06e	Y16	1	4	4	7200	38	6565	155	(540)										
				06f	Y16	1	4	4	7000	38	6375	155	(540)										
				06g	Y16	1	4	4	6825	38	6190	155	(540)										
				06h	Y16	1	4	4	6625	38	6005	155	(540)										
				06i	Y16	1	4	4	6450	38	5815	155	(540)										
				06j	Y16	1	4	4	6250	38	5630	155	(540)										
				06k	Y16	1	4	4	6075	38	5445	155	(540)										
				06l	Y16	1	4	4	5875	38	5255	155	(540)										
				06m	Y16	1	4	4	5700	38	5070	155	(540)										
				07	Y16	1	52	52	10800	38	10140	190	(540)										
				08	Y16	1	2	2	6300	55	540	155	5070	155	(540)								
				09a	Y16	1	4	4	8325	38	7700	155	(540)										
				09b	Y16	1	4	4	8125	38	7500	155	(540)										
				09c	Y16	1	4	4	7925	38	7295	155	(540)										
M a s s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		WOODMEAD RESERVOIR 22ML CONCRETE RESERVOIR		Project No. JW 14289R		Schedule No. 1					
	'R'											Project		WOODMEAD RESERVOIR		Ref. Dwg. 501B		Revision Suffex					
	'Y'					11977.3					11977.3	Section		ROOF SLAB BOTTOM REINFORCEMNT		Date 20/08/2024		Drawn S.S		Checked S.S			
	Total (Kg)					11977.3					11977.3												

MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS											
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
ROOF SLAB BOTTOM REINF.				09d	Y16	1	4	4	7725	38	7095	155	(540)												
				09e	Y16	1	4	4	7525	38	6890	155	(540)												
				09f	Y16	1	4	4	7325	38	6690	155	(540)												
				09g	Y16	1	4	4	7100	38	6485	155	(540)												
				09h	Y16	1	4	4	6900	38	6285	155	(540)												
				09i	Y16	1	4	4	6700	38	6080	155	(540)												
				09j	Y16	1	4	4	6500	38	5880	155	(540)												
				09k	Y16	1	4	4	6300	38	5675	155	(540)												
				09l	Y16	1	4	4	6100	38	5475	155	(540)												
				09m	Y16	1	4	4	5900	38	5270	155	(540)												
				09n	Y16	1	4	4	5700	38	5070	155	(540)												
				10	Y16	1	40	40	7500	38	6850	190	(540)												
				11	Y16	1	56	56	10550	38	9900	190	(540)												
				12	Y16	1	136	136	8625	38	8000	155	(540)												
				13	Y16	1	67	67	4875	38	4250	155	(540)												
				14	Y16	1	56	56	8450	38	7800	190	(540)												
				15	Y16	1	124	124	8450	38	7800	190	(540)												
				16	Y16	1	2825	2825	6750	20															
				17	Y16	1	104	104	10950	38	10300	190	(540)												
				18	Y16	1	60	60	9550	38	8900	190	(540)												
				19	Y16	1	62	62	4900	38	4250	190	(540)												
				20	Y16	1	2	2	6375	55	540	190	5070	190	(540)										
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		WOODMEAD RESERVOIR				Project No.		Schedule No.					
	'R'											22ML CONCRETE RESERVOIR		JW 14289R				2							
	'Y'					39979.7					39979.7	Project		WOODMEAD RESERVOIR				Ref. Dwg.		Revision Suffex					
	Total (Kg)					39979.7					39979.7	Section		ROOF SLAB BOTTOM REINFORCEMNT				Date		Drawn		Checked			
																20/08/2024				S.S		S.S			

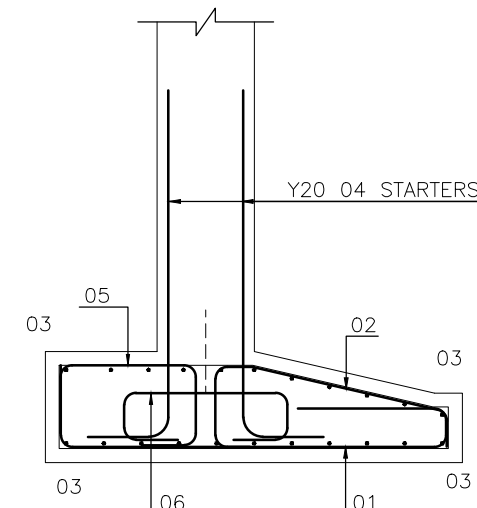
MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r								
ROOF SLAB TOP (T1) REINF.				01	Y20	1	1300	1300	3600	20													
				02	Y12	1	1100	1100	3500	20													
				03	Y12	1	803	803	3500	20													
				04	Y12	1	52	52	5550	38	4470	140	(1000)										
				07	Y12	1	52	52	5450	38	4360	140	(1000)										
				08	Y12	1	52	52	4000	38	2920	140	(1000)										
				09	Y12	1	52	52	4600	38	3500	140	(1000)										
				10	Y12	1	52	52	6925	38	5830	140	(1000)										
				11	Y12	1	52	52	8125	38	7030	140	(1000)										
				12	Y12	1	52	52	9325	38	8230	140	(1000)										
				13	Y12	1	52	52	7200	38	6110	140	(1000)										
				14	Y12	1	30	30	8175	38	7080	140	(1000)										
				15	Y12	1	30	30	8325	38	7225	140	(1000)										
				16	Y12	1	30	30	7850	38	6750	140	(1000)										
				17	Y12	1	60	60	5900	38	4800	140	(1000)										
				18	Y12	1	30	30	8600	38	7500	140	(1000)										
				19	Y12	1	20	20	7325	38	6230	140	(1000)										
				20	Y12	1	20	20	5825	38	4730	140	(1000)										
				21	Y12	1	20	20	4225	38	3130	140	(1000)										
				22	Y12	1	666	666	3600	20													
				23	Y12	1	9	9	7350	38	6250	140	(1000)										
				24	Y12	1	22	22	8600	38	7500	140	(1000)										
				25	Y10	1	116	116	6500	20													
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES -									
	'R'													22ML CONCRETE RESERVOIR		JW 14289R							
	'Y'			467.5	12161.5		11512.8				24141.7	Project		WOODMEAD RESERVOIR		Ref. Dwg. 502 B		Revision Suffex					
	Total (Kg)			467.5	12161.5		11512.8				24141.7	Section		TOP T1 REINFORCEMENT DETAILS		Date 20/08/2024		Drawn s.s		Checked D.G			

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r							
ROOF SLAB TOP (T1) REINF.				26	Y10	1	831	831	1450	60	490	165										
				27	Y10	1	265	265	1325	83	300	260	300	300								
				28	Y10	1	314	314	1300	83	300	245	300	300								
				29	Y10	1	304	304	1275	83	300	230	300	300								
				30	Y10	1	294	294	1250	83	300	215	300	300								
				31	Y10	1	276	276	1200	83	300	200	300	300								
				32	Y10	1	254	254	1175	83	300	185	300	300								
				33	Y10	1	220	220	1150	83	300	170	300	300								
				34	Y10	1	172	172	1125	83	300	155	300	300								
				35	Y10	1	74	74	1100	83	300	145	300	300								
				65	Y12	1	1300	1300	3600	20												
MANHOLE				51	Y10	2	8	16	1800	35	1590											
				52	Y12	2	8	16	3000	20												
				53	Y10	2	8	16	1500	35	1290											
				54	Y10	2	22	44	1350	38	600	190	(600)									
				55	Y12	2	8	16	1000	20												
				56	Y12	2	6	12	2950	20												
				57	Y16	2	8	16	1000	20												
				58	Y16	2	14	28	3000	20												
				S59	Y10	2	32	64	1475	60	500	165										
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title		BENDING SCHEDULES -		Project No.		Schedule No.				
														22ML CONCRETE RESERVOIR		JW 14289R				2		
	'R'											Project		WOODMEAD RESERVOIR		Ref. Dwg.		Revision Suffex				
	'Y'			2531.8	4253.7	158					6943.5	Section		TOP T1 REINFORCEMENT DETAILS		Date		Drawn		Checked		
	Total (Kg)			2531.8	4253.7	158					6943.5					20/08/2024		S.S				

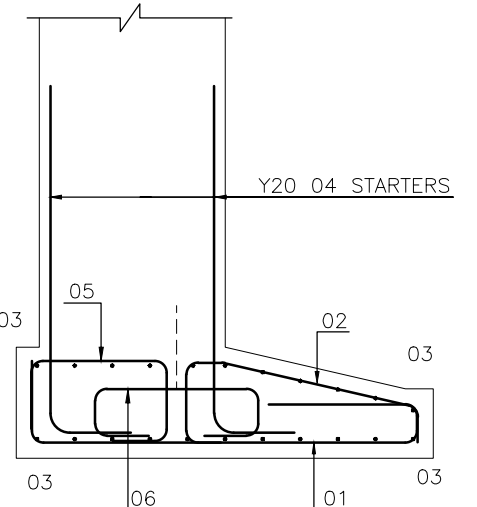
MEMBER				REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS										
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r										
ROOF SLAB TOP (T2) REINF.				01	Y20	1	1300	1300	3600	20															
				02	Y12	1	2077	2077	3500	20															
				22	Y12	1	660	660	3600	20															
				65	Y12	1	1300	1300	3600	20															
				71	Y12	1	38	38	5575	38	4500	115	(1000)												
				72	Y12	1	52	52	5500	38	4430	115	(1000)												
				73	Y12	1	64	64	5100	38	4030	115	(1000)												
				74	Y12	1	64	64	4500	38	3430	115	(1000)												
				75	Y12	1	32	32	3700	38	2630	115	(1000)												
				76	Y12	1	44	44	5350	38	4280	115	(1000)												
				77	Y12	1	64	64	6250	38	5180	115	(1000)												
				78	Y12	1	64	64	5000	38	3930	115	(1000)												
				79	Y12	1	29	29	3400	38	2330	115	(1000)												
				80	Y12	1	57	57	8575	38	7500	115	(1000)												
				81	Y12	1	52	52	6000	38	4930	115	(1000)												
				82	Y12	1	36	36	4000	38	2930	115	(1000)												
				84	Y12	1	12	12	7950	38	6880	115	(1000)												
				85	Y12	1	4	4	5925	38	4870	115	(1000)												
				87	Y12	1	52	52	7400	38	6330	115	(1000)												
				88	Y12	1	46	46	3600	20															
M a s s e s (kg)	Size Typ	6	8	10	12	16	20	25	32	40	Total (Kg)	Sheet Title			BENDING SCHEDULES -			Project No.		Schedule No.					
	'R'														22ML CONCRETE RESERVOIR			JW 14289R		1					
	'Y'				16219.7		11512.8				27732.5	Project			WOODMEAD RESERVOIR			Ref. Dwg.		Revision Suffex					
	Total (Kg)				16219.7		11512.8				27732.5	Section			ROOF SLAB TOP 'T2' REINFORCEMENT			Date		Drawn		Checked			
															20/08/2024			S.S		S.S					



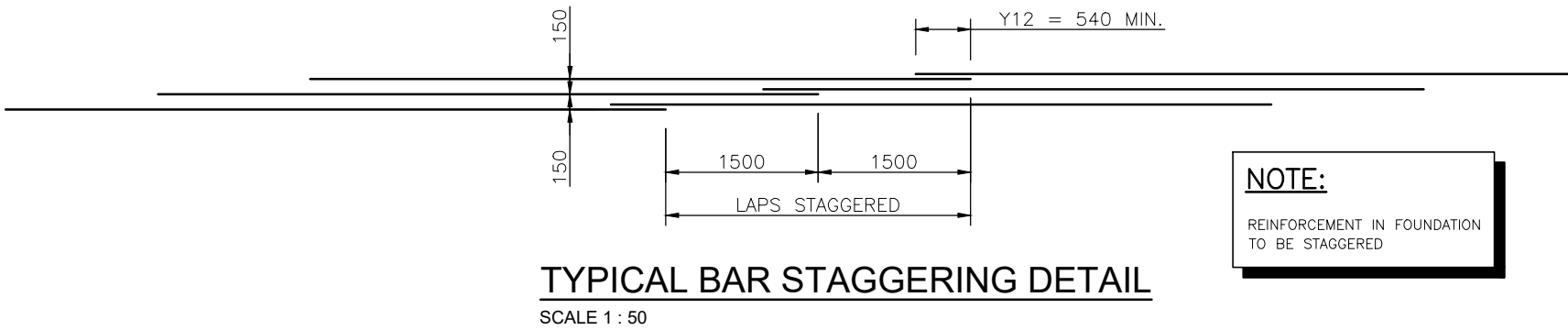
FOUNDATION REINFORCEMENT LAYOUT
SCALE 1:100



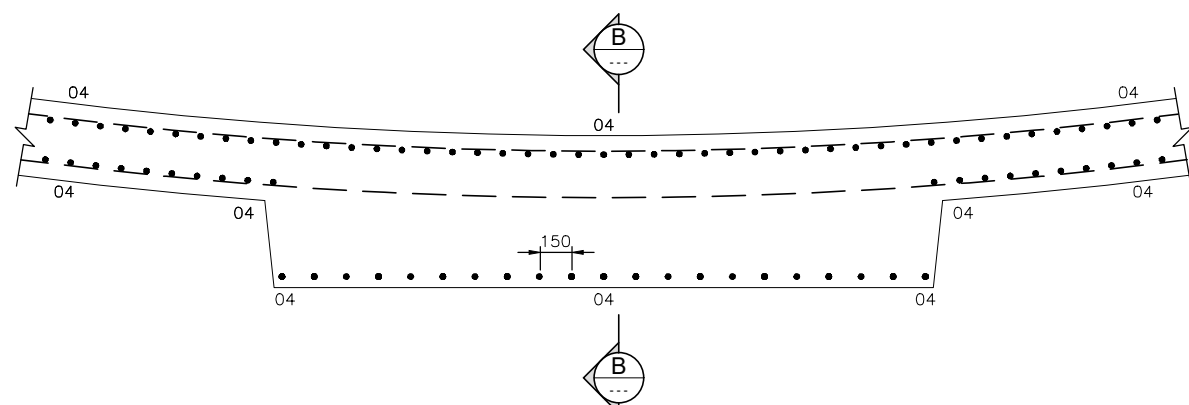
SECTION A-A
SCALE 1:20



SECTION B-B
SCALE 1:20



NOTE:
REINFORCEMENT IN FOUNDATION
TO BE STAGGERED



PLAN - STARTER BARS AT BUTTRESS
6 REQUIRED
SCALE 1:25

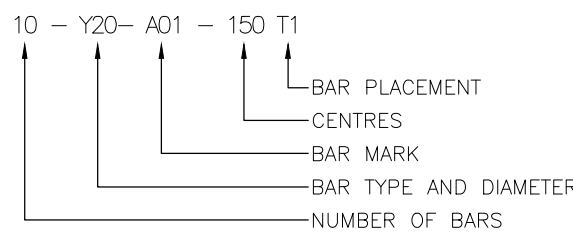
REINFORCEMENT NOTES:

- REINFORCEMENT TO SANS 920:2011 AND SANS 282:2011
- CONCRETE COVER TO REINFORCEMENT:
 - SURFACE BED - 50mm
 - WALL STRIP FOOTINGS - 50mm
 - COLUMN PAD FOOTINGS - 50mm
 - WALLS - 40mm
 - COLUMNS - 40mm
 - ROOF SLAB - 30mm
 - ROOF UPSTAND BEAM - 30mm
- MINIMUM LAP LENGTH FOR REINFORCEMENT BARS = 45 x SMALLEST BAR DIAMETER TO BE LAPPED.

REINFORCING LEGEND:

T	TOP
M	MIDDLE
B	BOTTOM
T1	FIRST TOP LAYER
T2	SECOND TOP LAYER
B1	FIRST BOTTOM LAYER
B2	SECOND BOTTOM LAYER
ABR	ALTERNATE BARS REVERSED
ALT	ALTERNATING BARS
NF	NEAR FACE
FF	FAR FACE
EF	EACH FACE
EW	EACH WAY

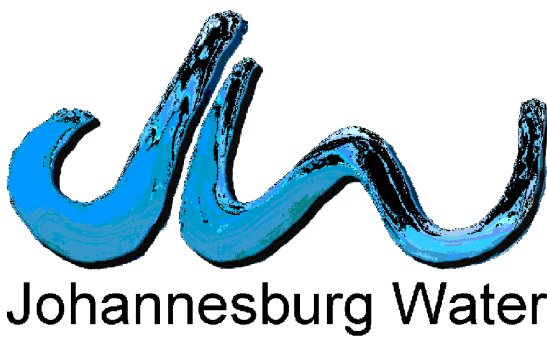
REINFORCING NOTATION:



DWG. No.	DESCRIPTION
102	GENERAL ARRANGEMENT
104	FOUNDATION & SURFACE BED LAYOUT
106	SECTIONS AND DETAILS
REFERENCE DRAWINGS	

ISSUE FOR TENDER ONLY

 Previously: UWP CONSULTING (Pty) Ltd P.O.Box 25549 Monument Park 0105 TEL: +27 (0) 12 424 9700 FAX: +27 (0) 12 460 4071	DESIGNED	K.M	05/05/2015
	DRAWN	S.S	05/05/2015
	CHECKED	D.G	07/10/2019
	APPROVED BY:		31/07/2024
		SIGNATURE	DATE
	ECSA REG. No.	20110143	
	CHECKED		
	APPROVED BY:		
		SIGNATURE	DATE
	ECSA REG. No.		



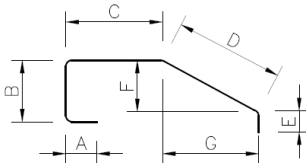
TURBINE HALL
65 NTEMI PILISO STREET
NEWTOWN
2113
TEL: (011) 688-1542
FAX: (011) 688-6604

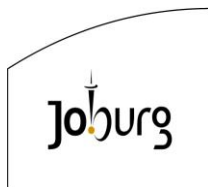


JW14289R: CONSTRUCTION OF 22 ML WOODMEAD RESERVOIR
FOUNDATION REINFORCEMENT DETAILS

SCALE	REV:	AMENDMENTS	APPROVED DATE:
AS SHOWN	T	ISSUE FOR TENDER	20/08/2024

DRAWING No: JW14289R-510			
JW14289R	510	T	
PROJECT No.	DRAWING No.	REV.	
A0	1	1	
ORIGINAL PAGE SIZE	SHEET	OF	
FILE No.			

MEMBER				REINFORCEMENT				BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)						FIXING AND NON STANDARD BENDING DETIALS									
Description				Mark	Type & Size	No. of Mbers	No. of Bars	Total	Cutting Length	Shape code	A	B	C	D	E or r	 SHAPE CODE 99							
WALL FOUNDATION				01	Y12	1	1120	1120	2300	85	300	1400	150	(540)									
				02	Y12	1	1120	1120	1350	99	A=130	B=300	C=140	D=725	E=130								
										F=165	G=705	H=	I=	J=									
				03	Y12	1	638	638	6500	20													
				04	Y20	1	2220	2220	1525	37	300	(1260)											
				05	Y12	1	1120	1120	1175	52	200	300	500	(250)									
				06	Y12	1	1120	1120	1250	55	200	180	600	180	(200)								



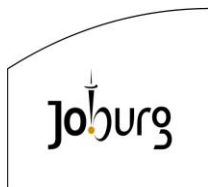
T2.3.2 JW 6.5 Returnable Annexure B: Acknowledgement of Tender Drawings

DECLARATION BY CONTRACTOR

I, the undersigned, and representing the tenderer as indicated hereby acknowledge that I have obtained copies of the following listed documentation and confirm that I fully understand the contents thereof and confirm compliance thereto in the event of being successful:

The drawings that are issued for **TENDER PURPOSES** are those noted below:

DRAWING NUMBER	DESCRIPTION	REV
JW14289R-000	LIST OF DRAWINGS	000
JW14289R-001	LOCALITY PLAN	000
JW14289R-002	LAYOUT PLAN	000
JW14289R-003	LAYOUT PLAN CADASTRAL	000
JW14289R-101	SITE LAYOUT	000
JW14289R-102	GENERAL ARRANGEMENT	000
JW14289R-103	SUB-SURFACE DRAINAGE LAYOUT	000
JW14289R-104	FOUNDATION & SURFACE BED LAYOUT	000
JW14289R-105	ROOF LAYOUT	000
JW14289R-106	SECTIONS AND DETAILS TAILS	000
JW14289R-107	MISCELLANEOUS DETAILS	000
JW14289R-108	POST TENSION LAYOUT & DETAILS SHEET 1-2	000
JW14289R-109	POST TENSION LAYOUT & DETAILS SHEET 2-2	000
JW14289R-110	WALL & COLUMN REINFORCEMENT DETAILS	000
JW14289R-110B	WALL & COLUMN BENDING SCHEDULE	000
JW14289R-111	SUB-SURFACE DRAINAGE LONG SECTION AND MANHOLE DETAILS	000
JW14289R-200	STANDARD DETAILS FOR TRENCH EXCAVATION AND BACKFILL FOR STEEL PIPES > 400mm ND	000
JW14289R-201	STEEL PIPE TAPER AND BEND DETAILS	000
JW14289R-202	STORMWATER CHAMBER	000
JW14289R-203	PIPE MARKERS	000
JW14289R-204	NAME BOARD	000
JW14289R-205	CABLE DUCT MANHOLE DETAILS	000
JW14289R-207	6m WIDE OPENING SLIDING GATE	000
JW14289R-209	TYPICAL TRENCH CROSS-SECTION FOR uPVC	000
JW14289R-210	STORMWATER MANHOLE DETAILS	000
JW14289R-220	BOUNDARY WALL DETAILS	000
JW14289R-221	BOUNDARY WALL DETAILS	000
JW14289R-240	GUARD HOUSE	000
JW14289R-241	INSTRUMENTATION HUT	000
JW14289R-300	INLET FLOW METER CHAMBER AND INSTALLATION DETAILS	000



Contract JW14289R
CONSTRUCTION OF 22 ML REINFORCED CONCRETE WOODMEAD RESERVOIR
 Volume 1 Tender and Contract
 Section T2 Returnable Documents



DRAWING NUMBER	DESCRIPTION	REV
JW14289R-301	SURFACE BED REINFORCEMENT DETAILS	000
JW14289R-301B	SURFACE BED BENDING SCHEDULE	000
JW14289R-304	RESERVOIR BYPASS PRV CHAMBER PIPE AND FITTING SCHEDULE	000
JW14289R-305	RESERVOIR BYPASS PRV CHAMBER DETAILS	000
JW14289R-306	RESERVOIR INLET PRV CHAMBER PIPE AND FITTING DETAILS	000
JW14289R-307	RESERVOIR INLET PRV CHAMBER DETAILS	000
JW14289R-308	OUTLET FLOW METER CHAMBER & INSTALLATION DETAILS	000
JW14289R-309	OUTLET ISOLATION VALVE CHAMBER & INSTALLATION DETAILS	000
JW14289R-310	TYPICAL INSULATING GASKET KIT MANHOLE DETAILS	000
JW14289R-312	TYPICAL LADDER DETAILS	000
JW14289R-400	STORMWATER CHAMBER REINFORCEMENT DETAILS	000
JW14289R-400B	STORMWATER CHAMBER BENDING SCHEDULE	000
JW14289R-402	BYPASS PRV CHAMBER REINFORCEMENT DETAILS SHEET 1-2	000
JW14289R-403	BYPASS PRV CHAMBER REINFORCEMENT DETAILS SHEET 2-2	000
JW14289R-404	INLET PRV CHAMBER REINFORCEMENT DETAILS SHEET 1-2	000
JW14289R-405	INLET PRV CHAMBER REINFORCEMENT DETAILS SHEET 2-2	000
JW14289R-406	OUTLET FLOW METER CHAMBER REINFORCEMENT DETAILS	000
JW14289R-406B	OUTLET FLOW METER CHAMBER BENDING SCHEDULE	000
JW14289R-408	OUTLET ISOLATION VALVE CHAMBER REINFORCEMENT DETAILS	000
JW14289R-408B	OUTLET ISOLATION VALVE CHAMBER BENDING SCHEDULE	000
JW14289R-409	INSULATION GASKET KIT MANHOLE	000
JW14289R-409B	INSULATION GASKET KIT MANHOLE BENDING SCHEDULE	000
JW14289R-410	INLET FLOW METER CHAMBER REINFORCEMENT DETAILS	000
JW14289R-410B	INLET FLOW METER CHAMBER BENDING SCHEDULE	000
JW14289R-501	ROOF SLAB BOTTOM B1 REINFORCEMENT DETAILS	000
JW14289R-501B	ROOF SLAB BOTTOM B1 CHAMBER BENDING SCHEDULE	000
JW14289R-502	ROOF SLAB TOP T1 REINFORCEMENT DETAILS	000
JW14289R-502B	ROOF SLAB TOP T1 CHAMBER BENDING SCHEDULE	000
JW14289R-503	ROOF SLAB TOP T2 REINFORCEMENT DETAILS	000
JW14289R-503B	ROOF SLAB TOP T2 CHAMBER BENDING SCHEDULE	000
JW14289R-510	FOUNDATION REINFORCEMENT DETAILS	000
JW14289R-510B	FOUNDATION BENDING SCHEDULE	000
JW14289R-601	TERRACE LEVEL PLANS	000
JW14289R-602	EXCAVATION & PLATFORM DETAILS	000
JW14289R-603	BULK EARTHWORK SETTING OUT POINTS	000
JW14289R-700	RESERVOIR INLET DETAILS	001
JW14289R-701	RESERVOIR OUTLET DETAILS	000
JW14289R-702	RESERVOIR OVERFLOW DETAILS	000
JW14289R-703	RESERVOIR SCOUR & OVERFLOW DETAILS	000

<u>ADDENDUM</u>	No. 01
<u>CONTRACT NUMBER:</u>	JW14289R
<u>CONTRACT TITLE:</u>	CONSTRUCTION OF 22 ML REINFORCED CONCRETE WOODMEAD RESERVOIR
<u>SUBJECT</u>	Addendum 1
<u>Date</u>	21 January 2025
<u>Sender</u>	Gcina Ndela 011 688 1796 gcina.ndela@jwater.co.za Sijabuliso Tshuma 011 688 1570 sijabuliso.tshuma@jwater.co.za

Tenderers must update the tender document by replacing pages RD63 and RD64, along with specific drawings, with the revised versions provided. Additionally, new drawings, as outlined below, must be incorporated. Please ensure the Addendum is returned as part of your submission.

1. Replace current List of Drawings of T2.3.2: JW 6.5 Returnable Annexure B: Acknowledgement of Tender Drawings, pg RD63-64. The changes on the Returnable Annexure B are as follows,

Drawing number	Page	Drawing number	Drawing Description	Description of Change
Volume 1, Page RD63		JW14289R-206	Flowmeter Chambers - 3d Views	To be removed from list
Volume 1, Page RD63		JW14289R-208	2.4m Concrete palisade fence details	To be removed from list
Volume 1, Page RD63		JW14289R-222	Boundary Wall Details	To be removed from list

2. To replace specific drawings with revised ones and issue new drawings that were omitted as indicated below,

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,
Mr Kgaile Mogoye, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela,
Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),
Johannesburg Water SOC Ltd
Registration Number: 2000/029271/30



a world class African city



City of Johannesburg

Johannesburg Water SOC Ltd

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Drawing number	Page	Drawing number	Drawing Description	Description of Change
Volume 4: Tender Drawings		JW14289R-000	List of Drawings	Change to list of drawings
		JW14289R -700	Reservoir Inlet Details	Change: Include Item 4 Detail.
		JW14289R-201	Steel Pipe Taper and Bend Details	New drawing
		JW14289R-204	Name Board	New drawing
		JW14289R-205	Cable Duct Manholes Details	New drawing
		JW14289R-210	Stormwater Manholes Details	New drawing
		JW14289R-240	Guardhouse	New drawing
		JW14289R-241	Instrumentation Hut	New drawing
		JW14289R-101	Site Layout	New drawing
		JW14289R-110B	Wall and Column Bending Schedule	New drawing
		JW14289R-301B	Surface Bed Bending Schedule	New drawing
		JW14289R-400B	Stormwater Chamber Bending Schedule	New drawing
		JW14289R-406B	Outlet Flow Meter Chamber Bending Schedule	New drawing
		JW14289R-408B	Outlet Isolating Valve Chamber Bending Schedule	New drawing
		JW14289R-409B	Insulating Gasket Kit Manhole Bending Schedule	New drawing
		JW14289R-410B	Inlet Flow Meter Chamber Bending Schedule	New drawing
		JW14289R-501B	Roof Slab Bottom B1 Chamber Bending Schedule	New drawing
		JW14289R-502B	Roof Slab Top T1 Chamber Bending Schedule	New drawing

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		Roof Slab Top T2 Chamber Bending	New drawing
	JW14289R-503B	Schedule	
	JW14289R-510B	Foundation Bending Schedule	New drawing
	JW14289R-510	Foundation Reinforcement Details	New drawing

3. Closing date extended from 30 January 2025 at 10:30 to 14 February 2025 at 10:30.

Any inconvenience caused is indeed, regretted.

Yours faithfully

Ithuteng Tabe

Acting General Manager: Supply Chain Management

Addendum Received

Name of

Tenderer:.....

Signatory:.....

Signature:.....

Date:.....

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
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