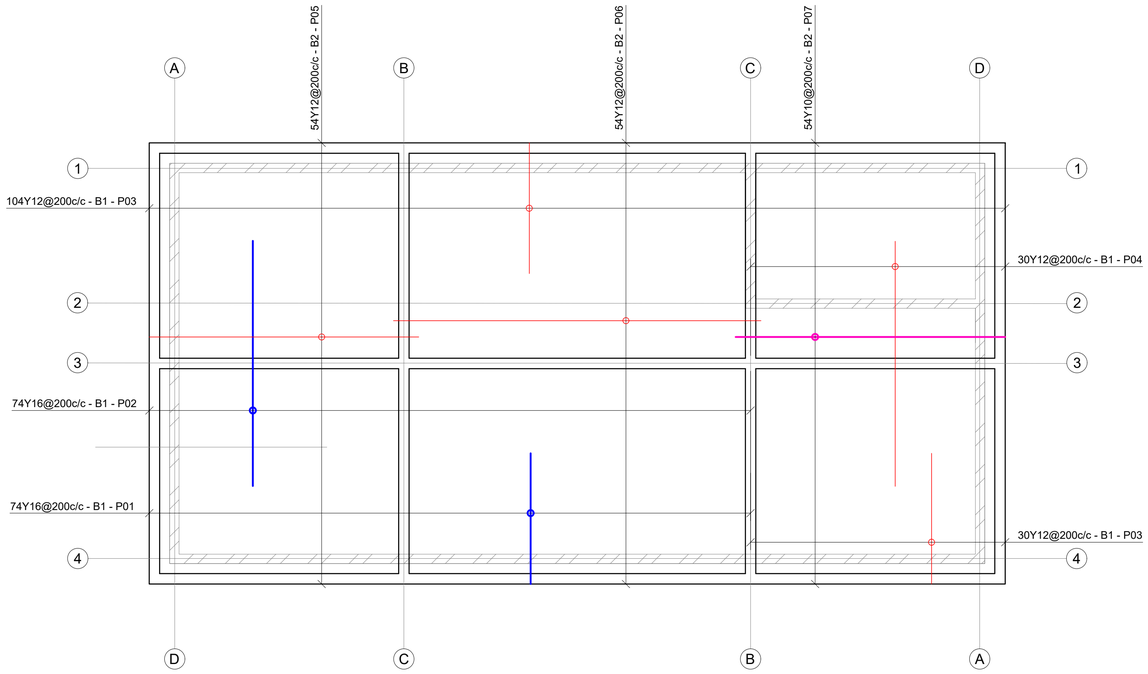
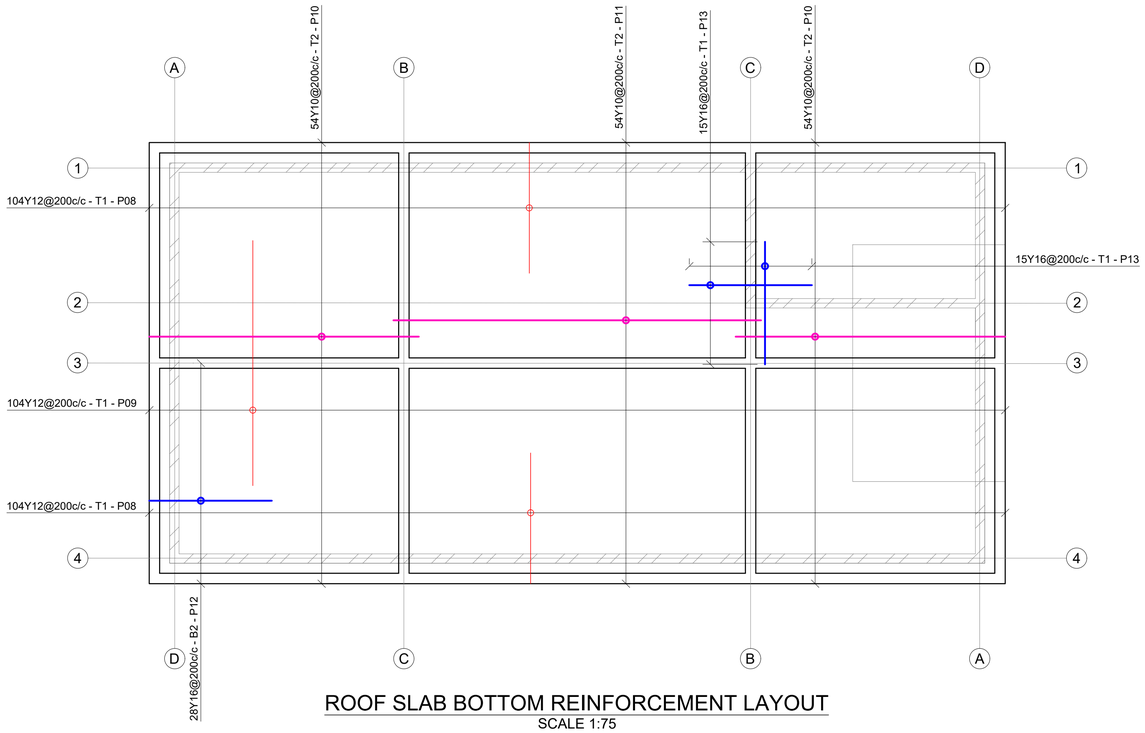


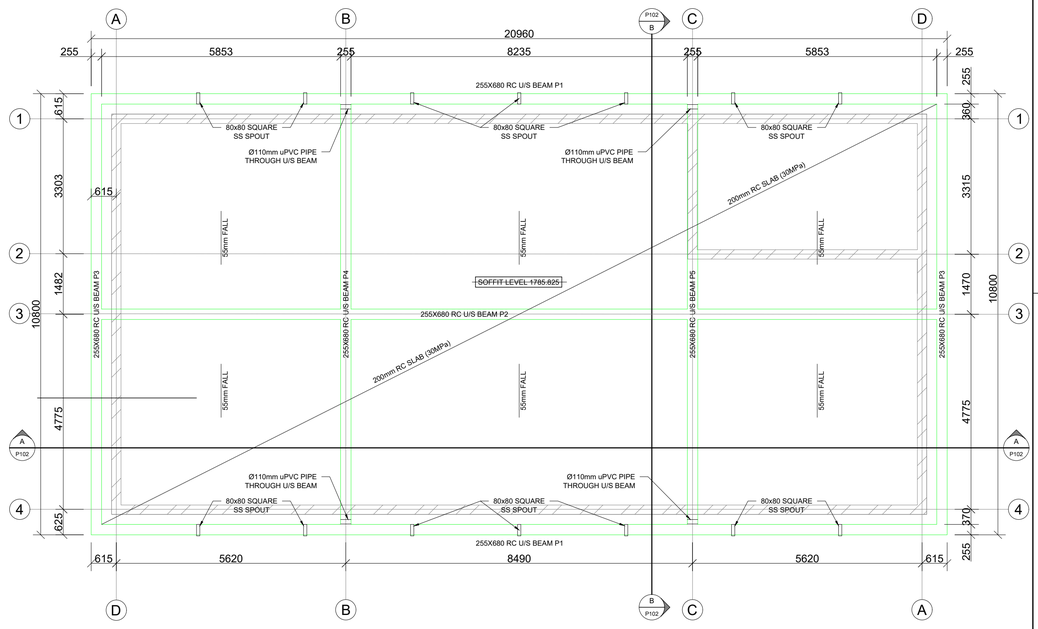
ROOF SLAB BOTTOM REINFORCEMENT LAYOUT

SCALE 1:75



ROOF SLAB BOTTOM REINFORCEMENT LAYOUT

SCALE 1:75



CONCRETE ROOF SLAB LAYOUT

SCALE 1:75

1. GENERAL NOTES

1.1 The copyright on this dwg, including the design and details shown hereon, is reserved by the Consulting Engineers.

1.2 No scaling of dimensions from drawings allowed.

1.3 All dimensions and levels are to be verified on site by the contractor before commencing any work.

2. EARTHWORKS NOTES

2.1 All excavations to follow SANS 10400 PART G: Excavations

2.2 Lateral support and shoring of deep excavations to be designed and certified by a professional

2.3 Compacted fill in layers not exceeding 150mm to 97% MOD AASHTO

2.4 Approved insecticide & weedkiller to SABS spec. Code 0124 to sides and under foundations, surface-beds & paving. 10 year underwritten guarantee in favour of client supplied by specialist contractor.

2.5 All foundation excavations to be approved by the Engineer prior to placement of any concrete

2.6 Min. ground bearing pressure - 150kPa

3. CONCRETE NOTES

3.1 All reinforced concrete to be vibrated

3.2 All column corners to receive chamfers

3.3 Half bricks or building debris may not be used as rebar spacers

3.4 Concrete Cube strength at 28 days
3.4.1 Blinding.....15MPa
3.4.2 Bases.....25MPa
3.4.3 Strip Footings.....25MPa
3.4.4 Surface Bed.....25MPa
3.4.5 1st & 2nd floors.....30MPa
3.4.6 Roof Slab.....30MPa
3.4.7 Columns.....35MPa

3.5 Concrete cover to reinforcement measured to stirrups
3.5.1 Base bottom.....75mm
3.5.2 Base sides.....50mm
3.5.3 Columns.....40mm
3.5.4 Beams.....30mm
3.5.5 Suspended slabs.....25mm

3.6 Proposed mix designs to be approved by the engineer prior to placement of any concrete

4. REINFORCEMENT NOTES

4.1 Reinforcement detailing based on SANS 10144

4.2 Minimum lapping of reinforcement: 50 x smaller diameter
All laps to be staggered

4.3 Reinforcement to be securely wired at all intersections

4.4 Reinforcement must be formed around, and as close as allowed to holes, and must not be cut
All holes and voids to be checked and approved by the Engineer prior to the placement of any concrete

4.5 Mild steel (R) to comply with SABS 920 type A - Grade 3
High tensile steel (Y) to comply SABS 920 type C - Grade 1

4.6 Bending dimensions in accordance with sans 282:2011
Dimensions are all outside dimensions
Dimension d must allways be greater than 2 x bar dia.
Radius of all bends are standard unless r is given

4.7 All reinforcement to be checked and approved by the Engineer prior to the placement of any concrete
Any reinforcing not inspected before concrete is poured will not be signed off by VBL

4.8 Reinforcement abbreviations:
BW - Both Ways
EF - Each Face
NF - Near Face
FF - Far Face
EW - Each Way
SF - Side Face
T1 - Highest of top layers
T2 - Second highest of top layers
B1 - Lowest of bottom layers
B2 - Second lowest of bottom layers
ALT - Alternative
ABR - Alternative Bar Reversed

FOR TENDER ONLY

CONSULTING ENGINEERS:	DESIGNED	P. S. Botha	05/08/2024
TRI-M CONSULTING ENGINEERS	DRAWN	J. Nel	05/08/2024
WEWORK	CHECKED	P. S. BOTHA	05/08/2024
155 WEST STREET	APPROVED BY:		
SANDTON, JOHANNESBURG	P. S. Botha	SIGNATURE	DATE
	ECSA REG. No.		
CLIENT POSTAL ADRESS:	CHECKED		
JOHANNESBURG WATER			
P O BOX 61542			
MARSHALLTOWN		SIGNATURE	DATE
2107			

Johannesburg Water

PHYSICAL ADDRESSES:
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NEWTOWN
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Turffontein Corridors of Freedom

Water Upgrade

Foresthill Tower and Pump station

REINFORCEMENT DETAILS - PUMP STATION
ROOF SLAB REINFORCEMENT LAYOUT

SURVEY INFORMATION		APPROVAL BY JW DEPOT			SCALE		AMENDMENTS	
PROJECT SURVEYOR:		CHECKED			1: 75	REV:	DESCRIPTION	DATE:
		APPROVED BY:				0	TENDER PURPOSES	05/08/2024
DATE:			SIGNATURE	DATE				
CCTV INFORMATION		APPROVAL BY JW PLANNING						
CCTV COMPANY:		CHECKED						
		APPROVED BY:						
DATE:			SIGNATURE	DATE				

JW14402 — CONTRACT NUMBER

R09 - 0 — DRAWING No. — REV.

A1 — ORIGINAL PAGE SIZE

SHEET 1 OF 1

FILE No.