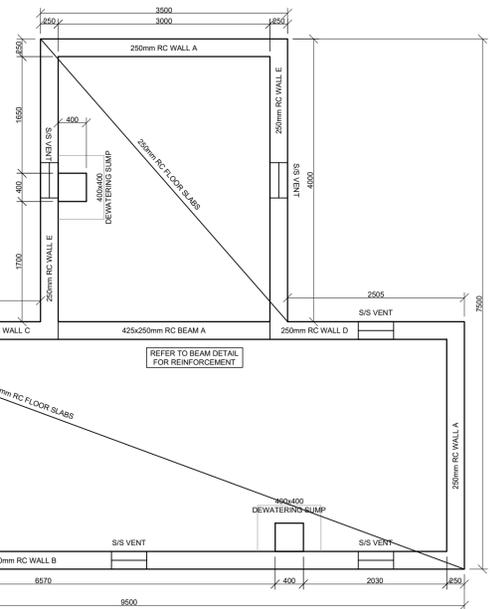
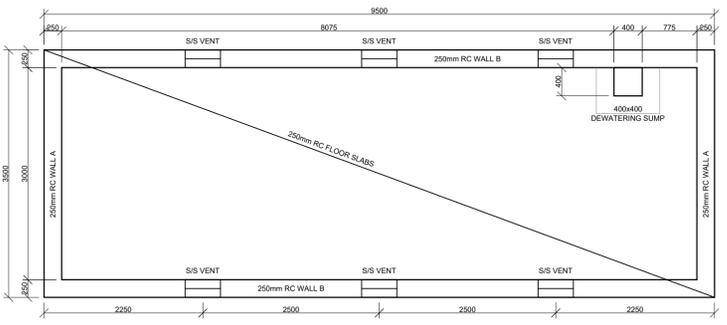


**OUTLET CHAMBER SLAB LAYOUT**  
SCALE 1:50

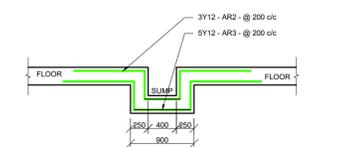


**METER CHAMBER PLAN LAYOUT**  
SCALE 1:50

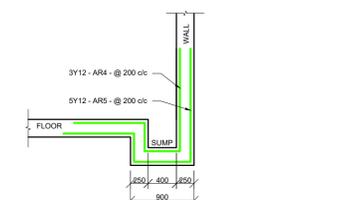


**RETICULATION CHAMBER PLAN LAYOUT**  
SCALE 1:50

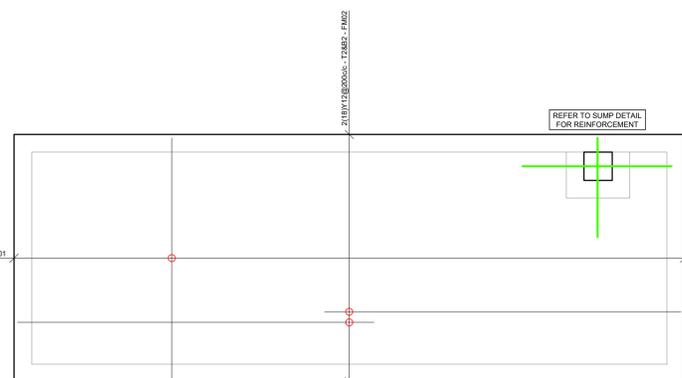
**FLOOR TO WALL REINFORCEMENT DETAIL**  
SCALE 1:50



**SUMP REINFORCEMENT DETAIL**  
SCALE 1:50

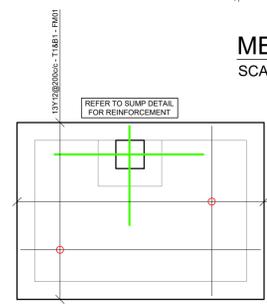
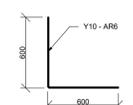


**SUMP REINFORCEMENT DETAIL**  
SCALE 1:50

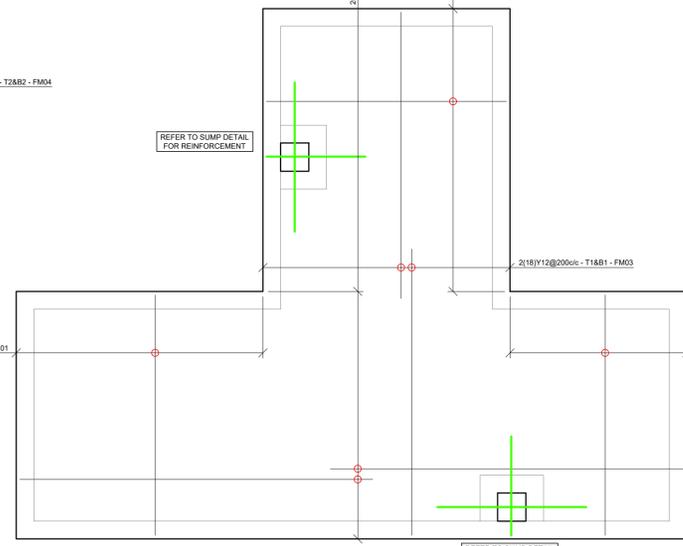


**RETICULATION CHAMBER FLOOR REBAR**  
SCALE 1:50

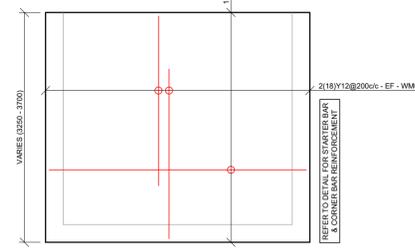
**ADDITIONAL CORNER BARS ON ALL INSIDE CORNERS**  
SCALE 1:50



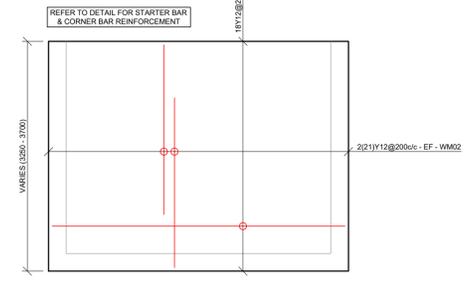
**OUTLET CHAMBER FLOOR REBAR**  
SCALE 1:50



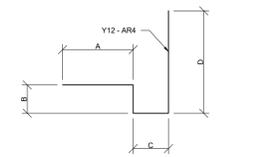
**METER CHAMBER FLOOR REBAR**  
SCALE 1:50



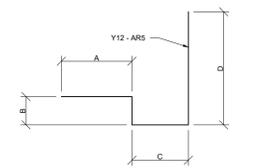
**WALL TYPE C REBAR**  
SCALE 1:50



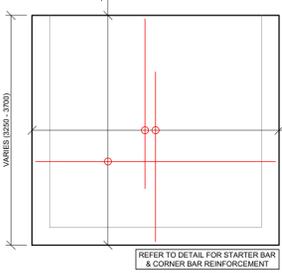
**WALL TYPE E REBAR**  
SCALE 1:50



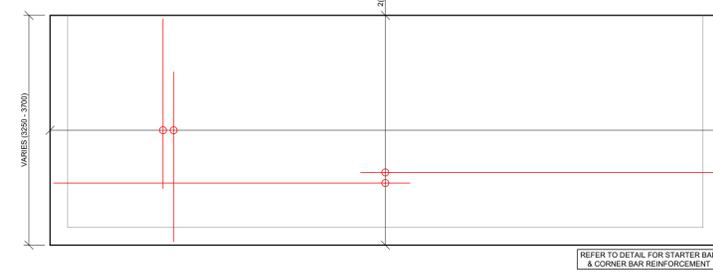
**SHAPE CODE 99A**



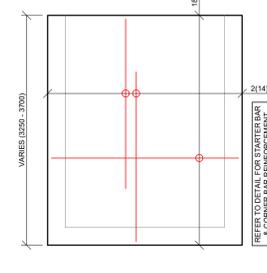
**SHAPE CODE 99B**



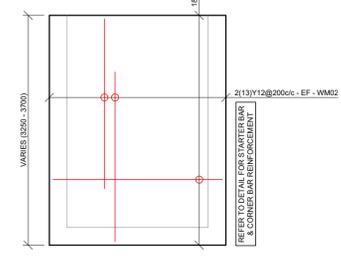
**WALL TYPE A REBAR**  
SCALE 1:50



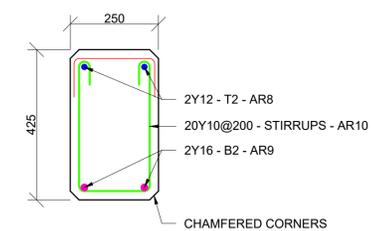
**WALL TYPE B REBAR**  
SCALE 1:50



**WALL TYPE D REBAR**  
SCALE 1:50



**WALL TYPE F REBAR**  
SCALE 1:50



**BEAM A REINFORCEMENT**  
SCALE 1:10

- 1. GENERAL NOTES**
- The copyright on this dwg, including the design and details shown hereon, is reserved by the Consulting Engineers.
  - No scaling of dimensions from drawings allowed.
  - All dimensions and levels are to be verified on site by the contractor before commencing any work.
- 2. EARTHWORKS NOTES**
- All excavations to follow SANS 10400 PART G: Excavations
  - Lateral support and shoring of deep excavations to be designed and certified by a professional
  - Compacted fill in layers not exceeding 150mm to 97% MOD AASHTO
  - Approved insecticide & weedkiller to SABS spec. Code U124 to sides and under foundations, surface-beds & paving. 10 year underwritten guarantee in favour of client supplied by specialist contractor.
  - All foundation excavations to be approved by the Engineer prior to placement of any concrete
  - Min. ground bearing pressure - 150kPa
- 3. CONCRETE NOTES**
- All reinforced concrete to be vibrated
  - All column corners to receive chamfers
  - Half bricks or building debris may not be used as rebar spacers
  - Concrete Cube strength at 28 days
  - Blinding.....15MPa
  - Bases.....25MPa
  - Strip Footings.....25MPa
  - Surface Bed.....25MPa
  - 1st & 2nd floors.....30MPa
  - Roof Slab.....30MPa
  - Columns.....35MPa
  - Concrete cover to reinforcement measured to stirrups
  - Base bottom.....75mm
  - Base sides.....50mm
  - Columns.....40mm
  - Beams.....30mm
  - Suspended slabs.....25mm
  - Proposed mix designs to be approved by the engineer prior to placement of any concrete
- 4. REINFORCEMENT NOTES**
- Reinforcement detailing based on SANS 10144
  - Minimum lapping of reinforcement: 50 x smaller diameter. All laps to be staggered
  - Reinforcement to be securely wired at all intersections
  - 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
  - Mild steel (R) to comply with SABS 920 type A - Grade 3. High tensile steel (Y) to comply SABS 920 type C - Grade 1
  - Bending dimensions in accordance with sabs 282:2011. Dimensions are all outside dimensions. Dimension d must always be greater than 2 x bar dia. Radius of all bends are standard unless r is given
  - 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.**
  - 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
- 5. STRUCTURAL STEEL NOTES**
- All steel to be of grade 300WA
  - All bolts to be grade 8.8 unless noted
  - All welds to be 6mm fillet welds unless noted
  - No site welding shall be permitted without the prior consent of the Engineer
  - All holes to be drilled, NO flame cutting allowed
  - All steelwork to be painted within 6 hours after cleaning with one coat red oxide
  - Engineer to inspect manufactured steel components prior to delivery to site**

CONSULTING ENGINEERS: TRI-M CONSULTING ENGINEERS WEWORK 155 WEST STREET SANDTON, JOHANNESBURG	DESIGNED P. S. Botha 05/08/2024	05/08/2024
	DRAWN J. Nel 05/08/2024	05/08/2024
	CHECKED P. S. BOTHA 05/08/2024	05/08/2024
	APPROVED BY: P. S. Botha	SIGNATURE DATE
	ECSA REG. No.	
	CHECKED	
		SIGNATURE DATE



**PHYSICAL ADDRESSES:**  
65 NTEMI PILISO STREET  
NEWTOWN  
JOHANNESBURG

TEL: (011) 688-1400  
FAX: (011) 688-1529

**Turffontein Corridors of Freedom**  
Water Upgrade  
Foresthill Tower and Pump station

**CHAMBER FLOOR AND WALL REINFORCEMENT LAYOUTS**

SURVEY INFORMATION		APPROVAL BY JW DEPOT		SCALE	AMENDMENTS	
PROJECT SURVEYOR:		CHECKED		1:50:1:25	REV:	DESCRIPTION DATE:
DATE:		APPROVED BY:		0	TENDER PURPOSES	05/08/2024
		SIGNATURE	DATE			
CCTV INFORMATION		APPROVAL BY JW PLANNING				
CCTV COMPANY:		CHECKED				
DATE:		APPROVED BY:				
		SIGNATURE	DATE			

JW14402	R06	0
CONTRACT NUMBER	DRAWING No.	REV.
A1	SHEET 1	OF 1
ORIGINAL PAGE SIZE	FILE No.	