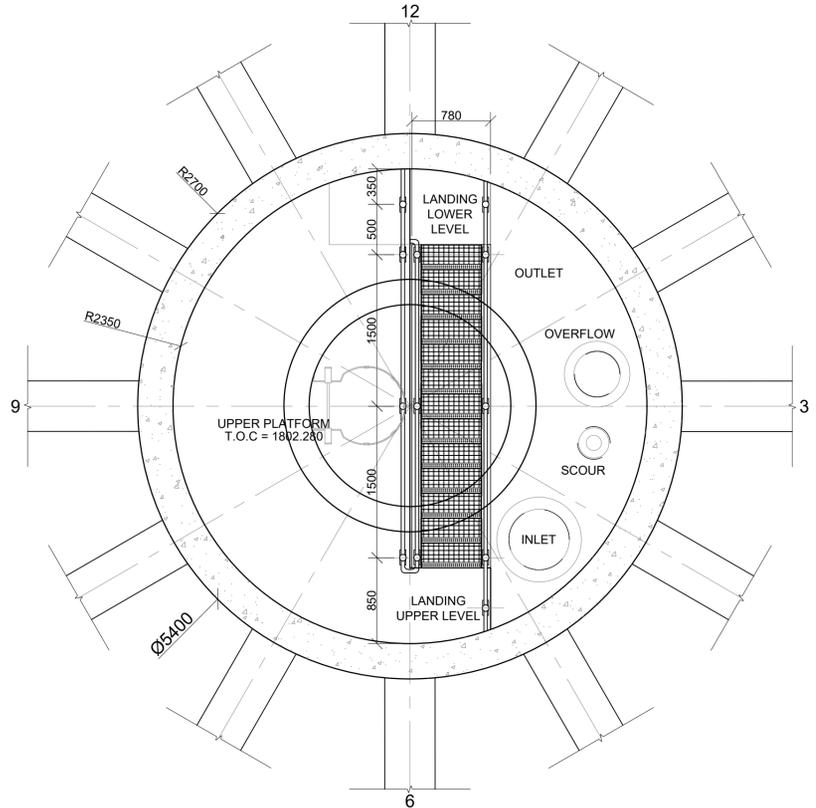
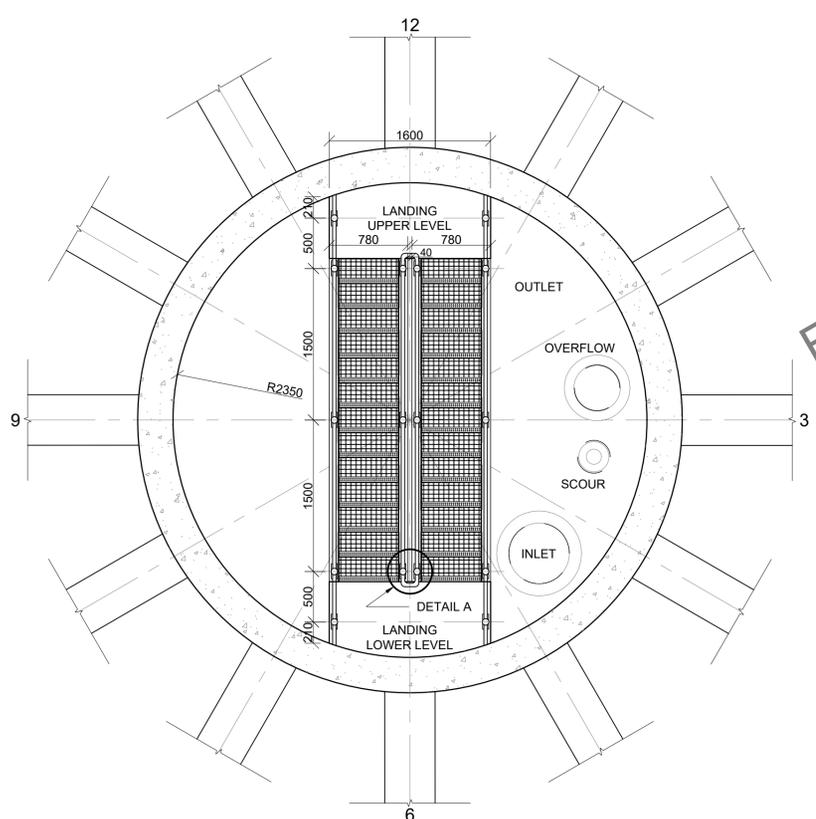


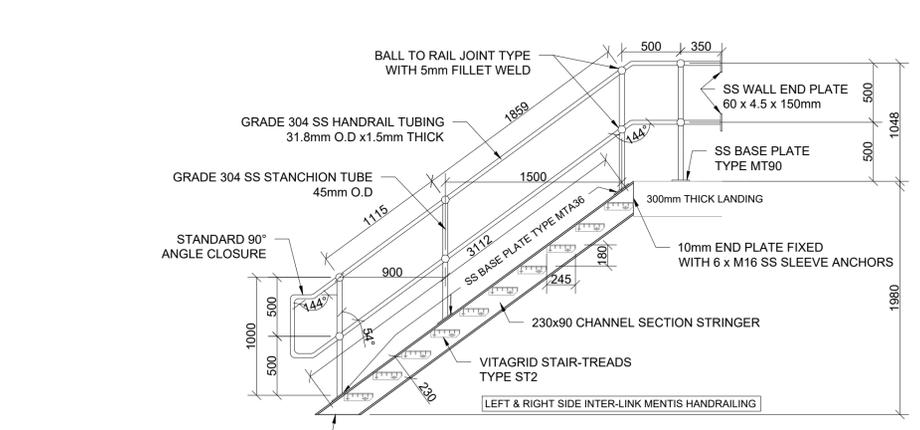
**STAIR DETAIL ON SECTION A-A**  
SCALE 1:50



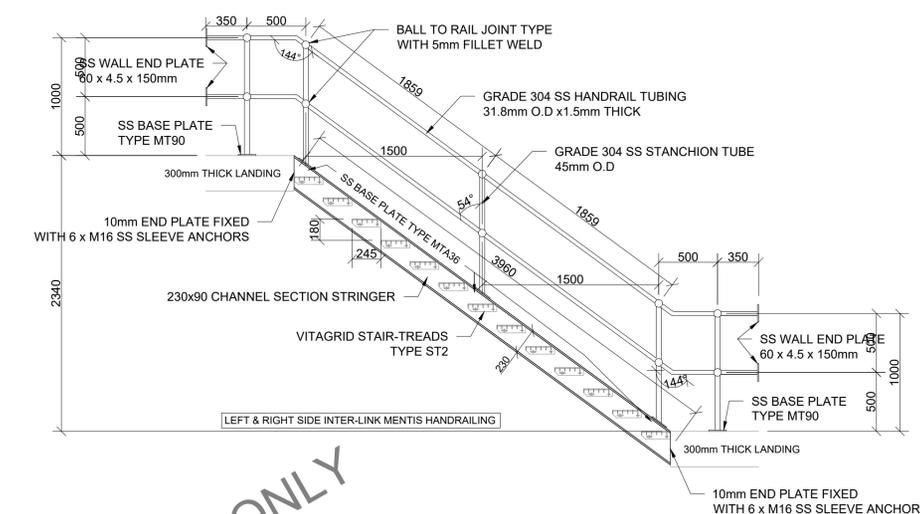
**PLAN SECTION A-A**  
SCALE 1:35



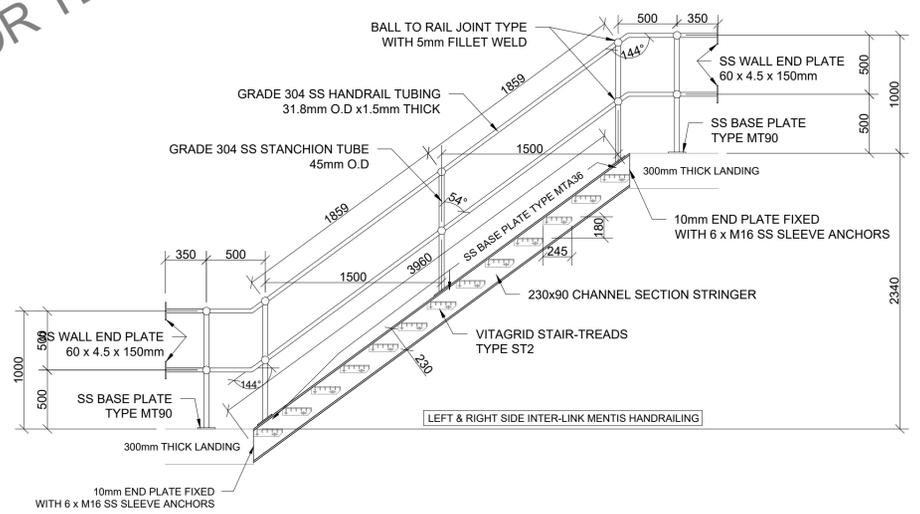
**PLAN SECTION B-B**  
SCALE 1:35



**FLIGHT TYPE A**  
SCALE 1:30

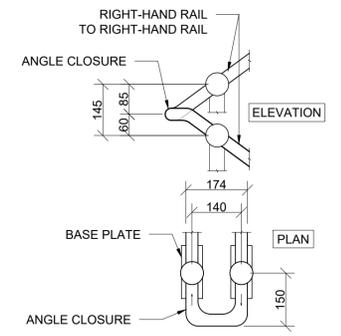


**FLIGHT TYPE B**  
SCALE 1:30



**FLIGHT TYPE C**  
SCALE 1:30

- 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 0124 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
  - 4.1 Blinding.....15MPa
  - 4.2 Bases.....25MPa
  - 4.3 Strip Footings.....25MPa
  - 4.4 Surface Bed.....25MPa
  - 4.5 1st & 2nd floors.....30MPa
  - 4.6 Roof Slab.....30MPa
  - 4.7 Columns.....35MPa
  - Concrete cover to reinforcement measured to stirrups
  - 5.1 Base bottom.....75mm
  - 5.2 Base sides.....50mm
  - 5.3 Columns.....40mm
  - 5.4 Beams.....30mm
  - 5.5 Suspended slabs.....25mm
  - Proposed mix designs to be approved by the engineer prior to placement of any concrete
- 4. 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



**DETAIL A**  
SCALE 1:10

FOR TENDER ONLY

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

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

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

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



**STEEL STAIRCASE TO TOWER**

<b>SURVEY INFORMATION</b>	<b>APPROVAL BY JW DEPOT</b>	<b>SCALE</b>	<b>AMENDMENTS</b>
PROJECT SURVEYOR:	CHECKED:	1:50:1:35	REVISIONS
DATE:	APPROVED BY:	0	DESCRIPTION
	SIGNATURE		TENDER PURPOSES
	DATE		05/08/2024
<b>CCTV INFORMATION</b>	<b>APPROVAL BY JW PLANNING</b>		
CCTV COMPANY:	CHECKED:		
DATE:	APPROVED BY:		
	SIGNATURE		
	DATE		

<b>JW14402</b>	<b>ST01</b>	<b>0</b>
CONTRACT NUMBER	DRAWING No.	REV.
<b>A1</b>	SHEET <b>1</b> OF <b>1</b>	
ORIGINAL PAGE SIZE	FILE No.	