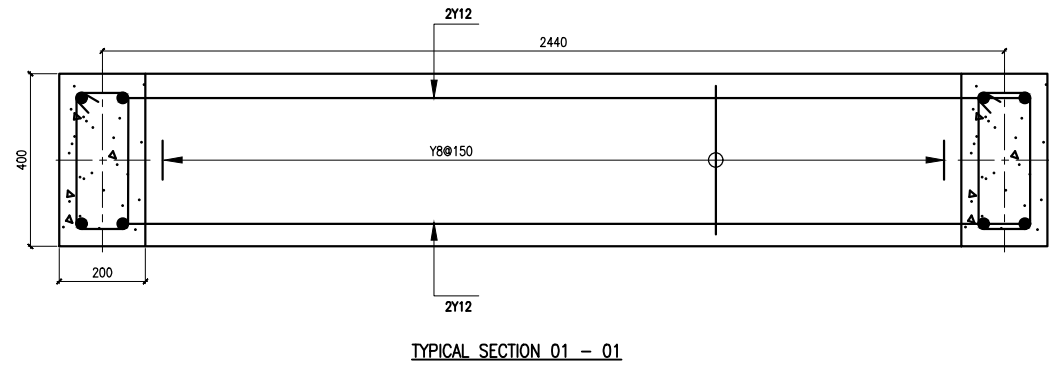
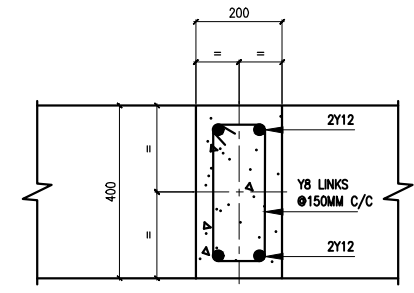


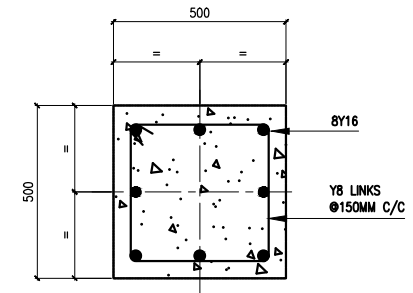
H.D. LAYOUT PLAN



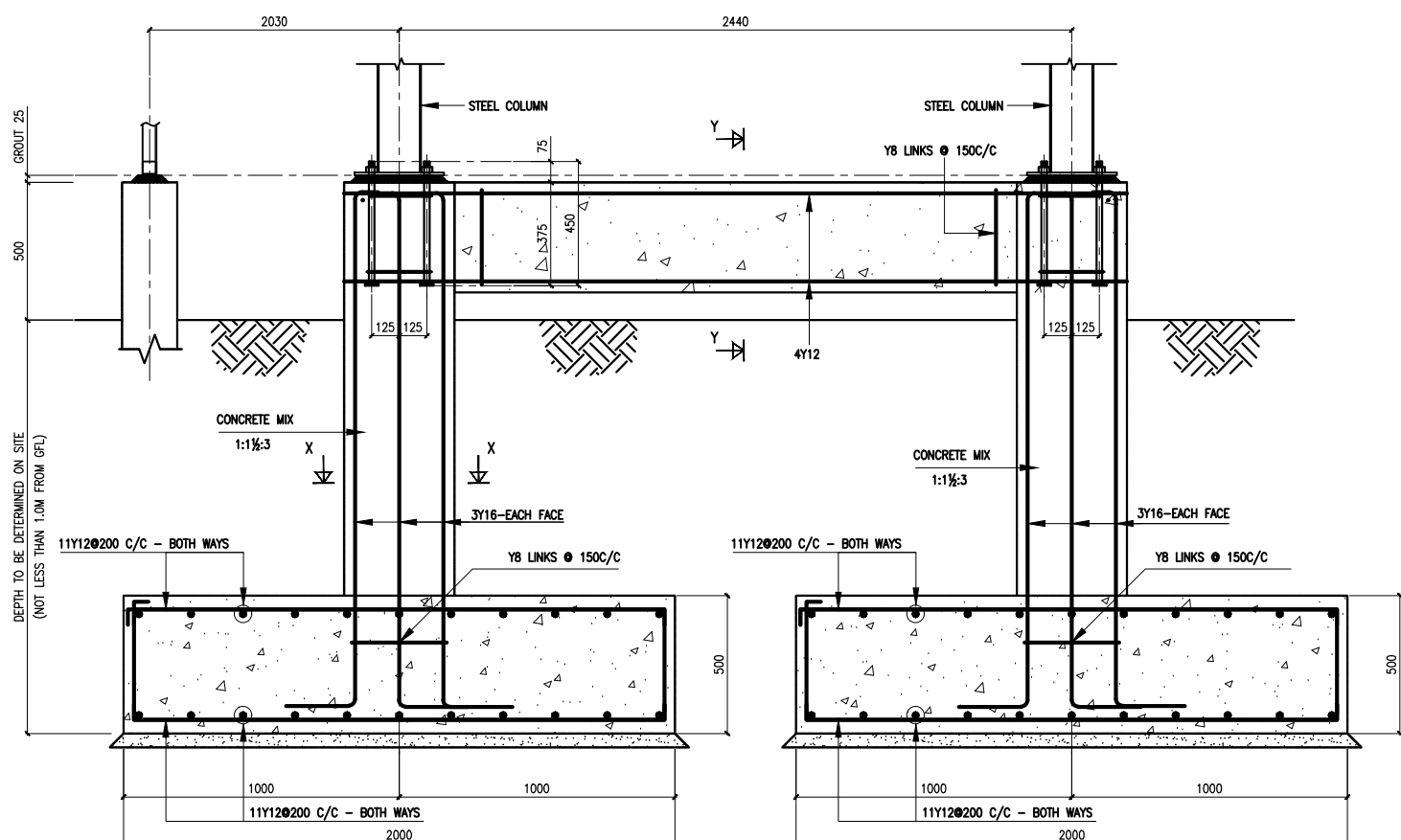
TYPICAL SECTION 01 - 01



TYPICAL SECTION Y - Y THRU RC BEAMS B1



TYPICAL SECTION X - X THRU STUB COLUMNS



TYPICAL SECTION 01 - 01

- NOTES:**
- MIX OF CONCRETE TO ATTAIN THE STRENGTH OF  $F_{cu}$  25 N/mm<sup>2</sup>
  - CONCRETE MIX 1:1 1/2:3
  - CONCRETE MIX 1:3:6 BLINDING
  - WATER CEMENT RATIO 0.5
  - CUBE STRENGTH 28 DAYS - 25 N/mm<sup>2</sup>
  - REINFORCEMENT STEEL STRENGTH - 425/250 N/mm<sup>2</sup>
  - COVER TO BASE - 50mm
  - COVER TO COLUMN - 40mm
  - CONTRACTOR TO CONFIRM CHECK DIMENSION USING STEEL TAPE MEASURE.
  - HOLDING DOWN BOLTS TO BE CAST TO  $\pm 5$ mm ACCURACY AND SHOULD BE RECAST IF THIS TOLERANCE IS EXCEEDED.
  - CONTRACTOR TO CONFIRM LEVELS OF FOUNDATIONS.
  - ASSUMED GROUND BEARING PRESSURE - 100 KN/M<sup>2</sup>

- NOTES**
- READ THE DRAWING IN CONJUNCTION WITH RELEVANT R.C. DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
  - ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
  - ALL PIPEWORK ARE GALVANIZED IRON TO NP 10 WITH NP 16 FLANGES
  - ALL CONCRETE SHALL BE CLASS C25 UNLESS OTHERWISE STATED
  - ALL VALVES TO BE SUPPLIED WITH EXTENSION SPINDLE.
  - MIN CONCRETE COVER OF 40 mm TO THE MAIN STEEL TO BE MAINTAINED.
  - SAFE BEARING CAPACITY TAKEN AS OF 150KN/M<sup>2</sup>.
  - ALL FOUNDATIONS TO BE TAKEN DOWN TO A SUITABLE ROCK.
  - MAXIMUM AGGREGATE SIZE FOR CONCRETE IS 20mm.
  - ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.

PROJECT TITLE:  
**PROPOSED FABRICATION & ERECTION OF 48M<sup>3</sup> PRESSED STEEL TANK ON 12M TOWER**

DRAWING TITLE  
**RC FOUNDATION & H.D. BOLTS LAYOUT DETAILS**

CLIENT



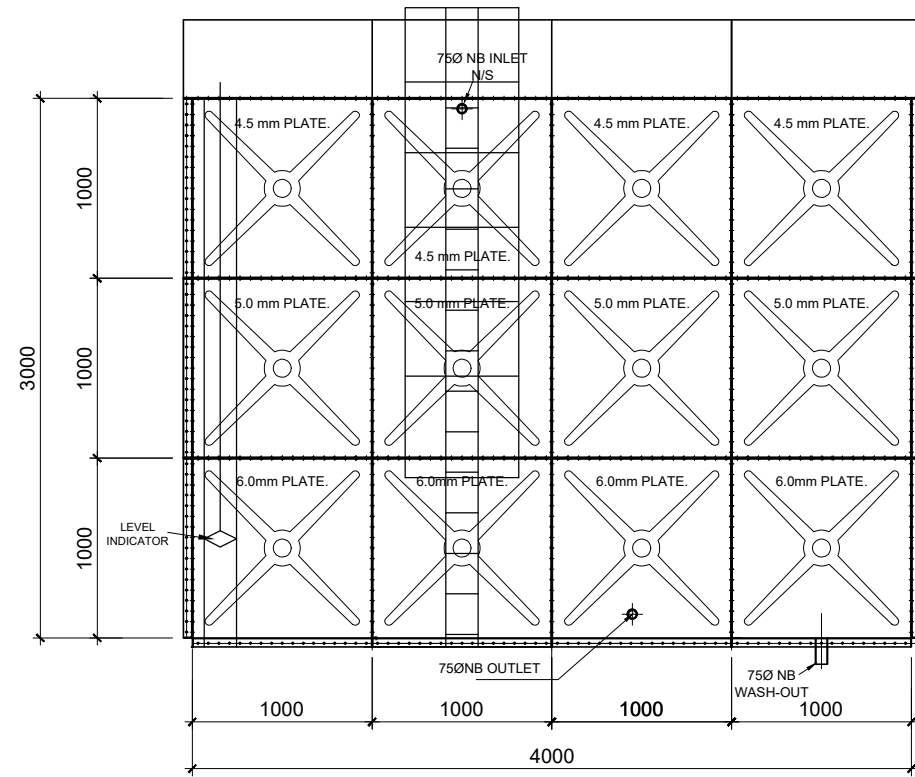
TANA WATER WORKS DEVELOPMENT AGENCY  
P.O. Box 1292-10100  
NYERI, KENYA.

CONTRACTOR

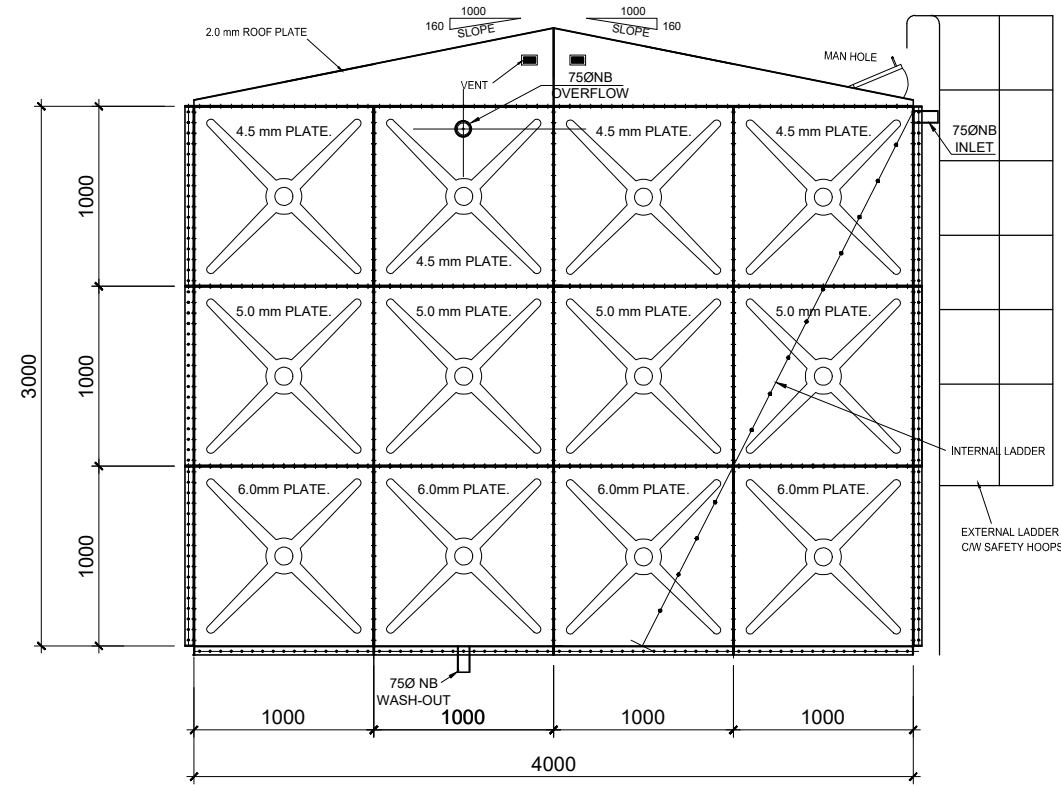
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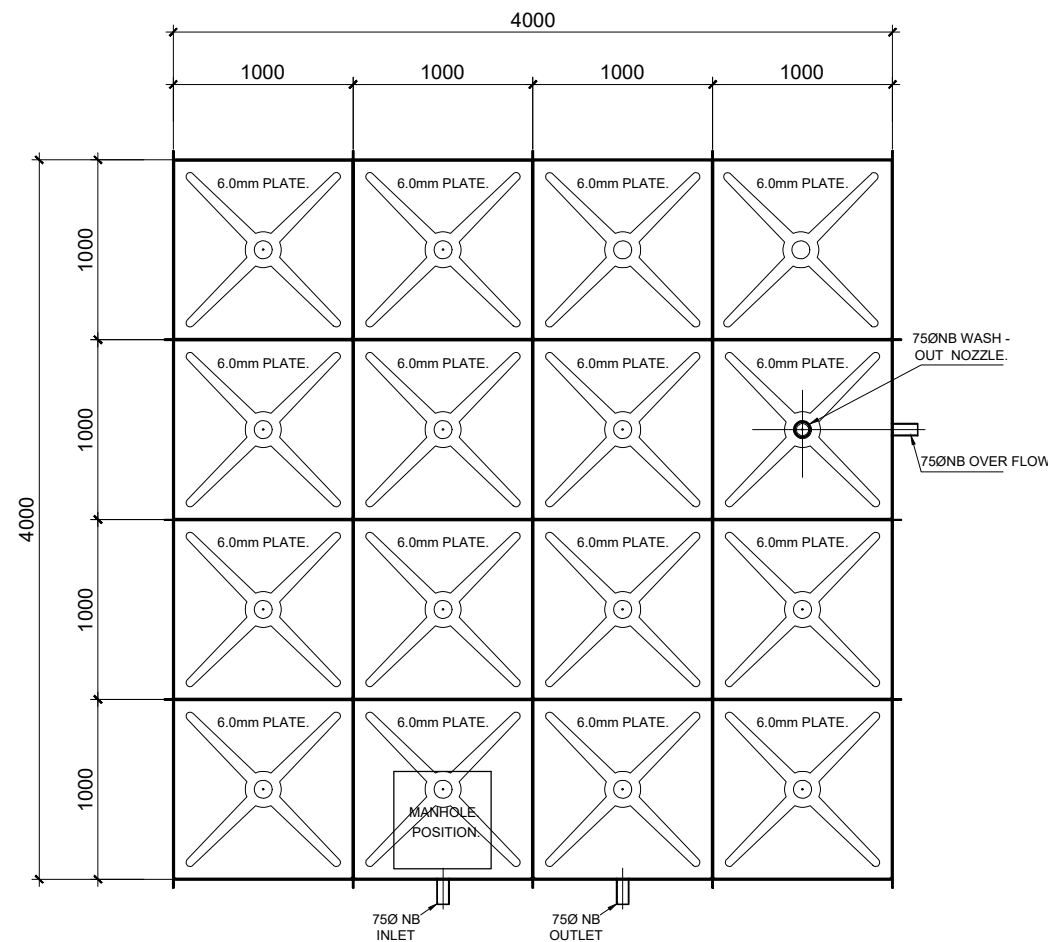
DRG No. 01	Revision Suffix
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**SIDE ELEVATION**



**END ELEVATION**



**PLAN**

**GENERAL NOTES:**

- 1) ALL STRUCTURAL STEELWORK TO BE GRADE 43C.
- 2) TANK PANELS, COVER, FASTENERS/BOLTS, INTERNAL BRACINGS AND BRACKETS TO BE SURFACE FINISHED BY HOT DIP GALVANIZING
- 3) ALL SHOP WELDS TO BE 6MM FILLET WELDS  
UNLESS OTHERWISE NOTED.
- 4) ALL SECTION SIZES ARE AS SPECIFIED ON DRAWING UNLESS OTHERWISE NOTED.
- 5) BOLTS ARE HIGH TENSILE GRADE 8.8 AND GALVANIZED

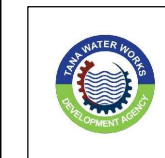
**NOTES**

1. READ THE DRAWING IN CONJUNCTION WITH RELEVANT R.C. DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
3. ALL PIPEWORK ARE GALVANIZED IRON TO NP 10 WITH NP 16 FLANGES
4. ALL CONCRETE SHALL BE CLASS C25 UNLESS OTHERWISE STATED.
5. ALL VALVES TO BE SUPPLIED WITH EXTENSION SPINDLE.
6. MIN CONCRETE COVER OF 40 mm TO THE MAIN STEEL TO BE MAINTAINED.
7. SAFE BEARING CAPACITY TAKEN AS OF 150KN/M2.
8. ALL FOUNDATIONS TO BE TAKEN DOWN TO A SUITABLE ROCK.
9. MAXIMUM AGGREGATE SIZE FOR CONCRETE IS 20mm.
10. ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.

PROJECT TITLE:  
PROPOSED FABRICATION & ERECTION OF  
48M<sup>3</sup> PRESSED STEEL TANK ON 12M TOWER

DRAWING TITLE  
PANEL DETAILS

CLIENT



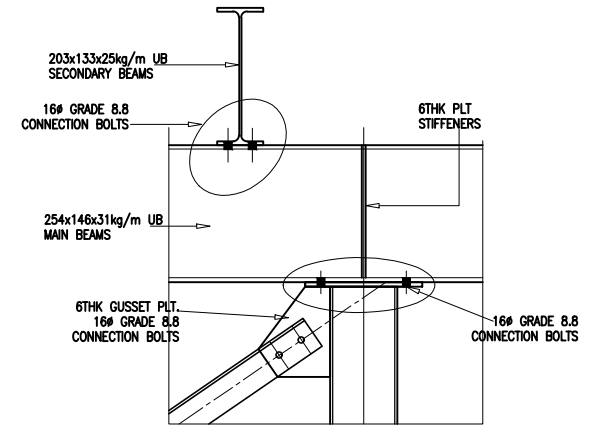
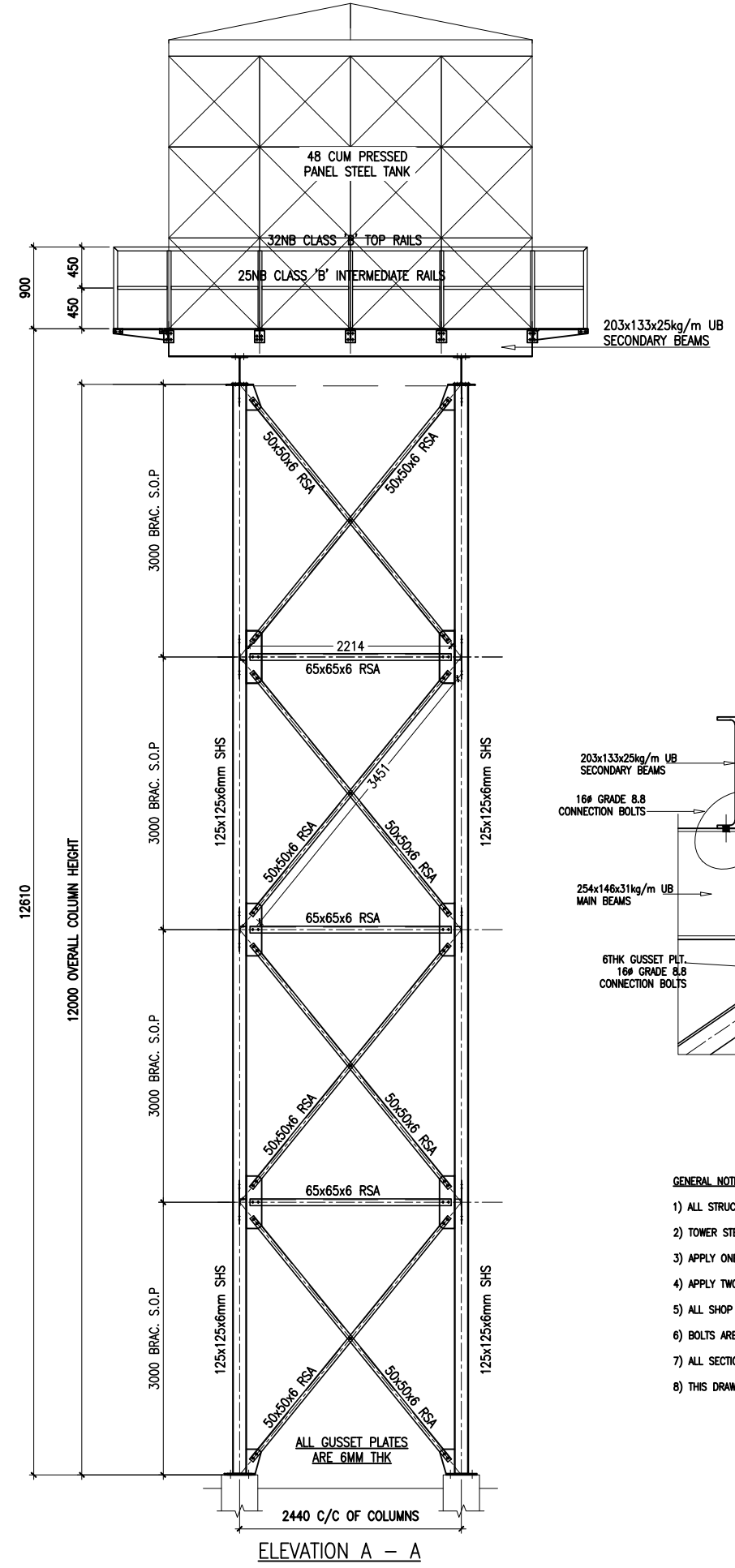
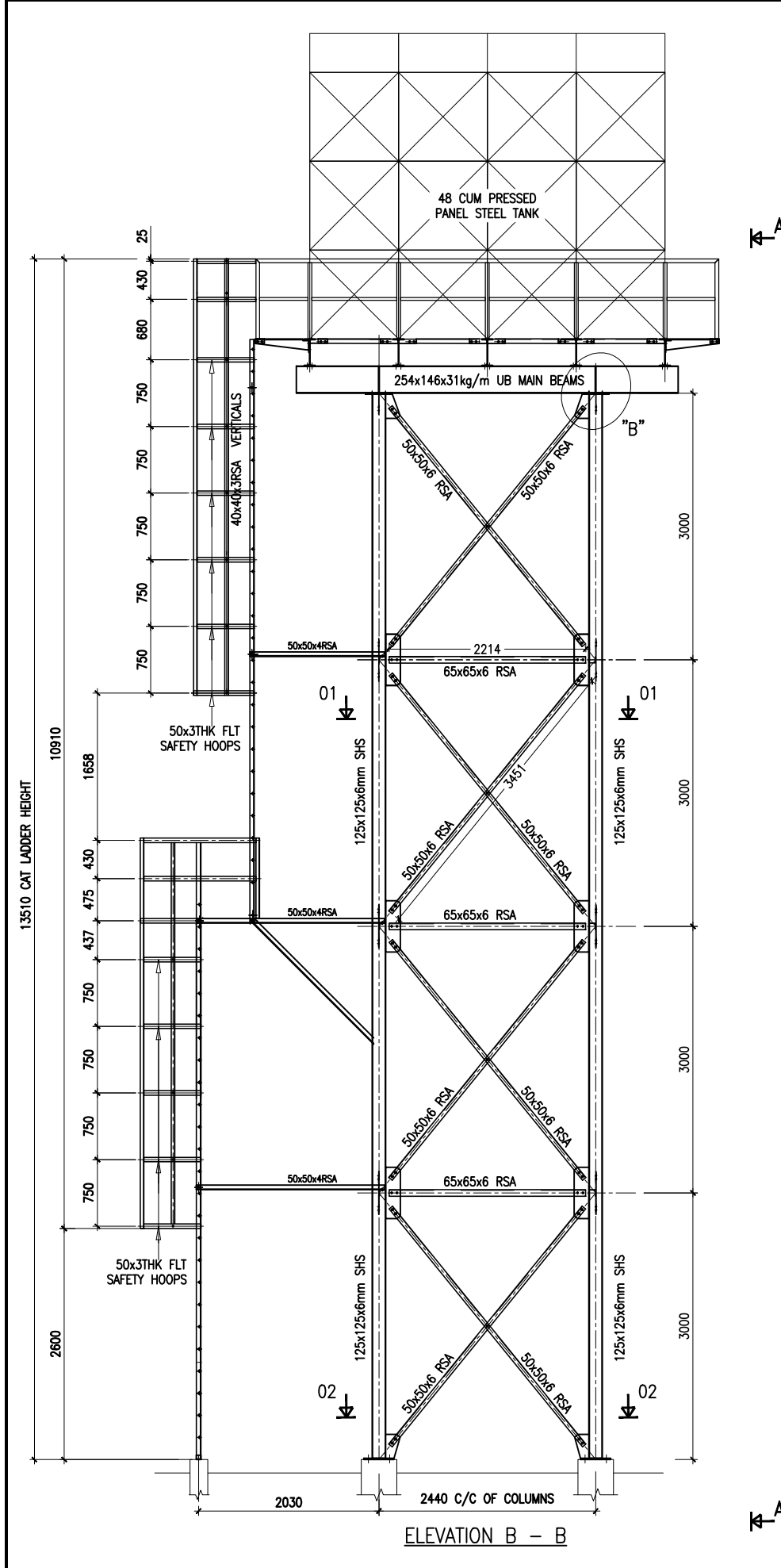
TANA WATER WORKS  
DEVELOPMENT AGENCY  
P.O. Box 1292-10100  
NYERI, KENYA.

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SCALE: 1:50

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DRG No. 02	Revision Suffix
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TYPICAL CONNECTION DETAIL AT "A"


- GENERAL NOTES:**
- 1) ALL STRUCTURAL STEELWORK TO BE GRADE 43C.
  - 2) TOWER STEELWORK TO BE WIRE BRUSHED PRIOR TO PAINT APPLICATION.
  - 3) APPLY ONE COAT OF GREY OXIDE PRIMER.
  - 4) APPLY TWO COATS OF SILVER ALUMINIUM PAINT.
  - 5) ALL SHOP WELDS TO BE 6MM FILLET WELDS U.O.N.
  - 6) BOLTS ARE HIGH TENSILE GRADE 4.6. & GRADE 8.8 AND GALVANIZED
  - 7) ALL SECTION SIZES TO BE AS SPECIFIED ON DRAWING.
  - 8) THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.

**NOTES**

1. READ THE DRAWING IN CONJUNCTION WITH RELEVANT R.C. DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
3. ALL PIPEWORK ARE GALVANIZED IRON TO NP 10 WITH NP 16 FLANGES
4. ALL CONCRETE SHALL BE CLASS C25 UNLESS OTHERWISE STATED
5. ALL VALVES TO BE SUPPLIED WITH EXTENSION SPINDLE.
6. MIN CONCRETE COVER OF 40 mm TO THE MAIN STEEL TO BE MAINTAINED.
7. SAFE BEARING CAPACITY TAKEN AS OF 150KN/M2.
8. ALL FOUNDATIONS TO BE TAKEN DOWN TO A SUITABLE ROCK.
9. MAXIMUM AGGREGATE SIZE FOR CONCRETE IS 20mm.
10. ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.

PROJECT TITLE:  
**PROPOSED FABRICATION & ERECTION OF 48M<sup>3</sup> PRESSED STEEL TANK ON 12M TOWER**

DRAWING TITLE  
**ELEVATION DETAILS**

CLIENT  

**TANA WATER WORKS DEVELOPMENT AGENCY**  
 P.O. Box 1292-10100  
 NYERI, KENYA.

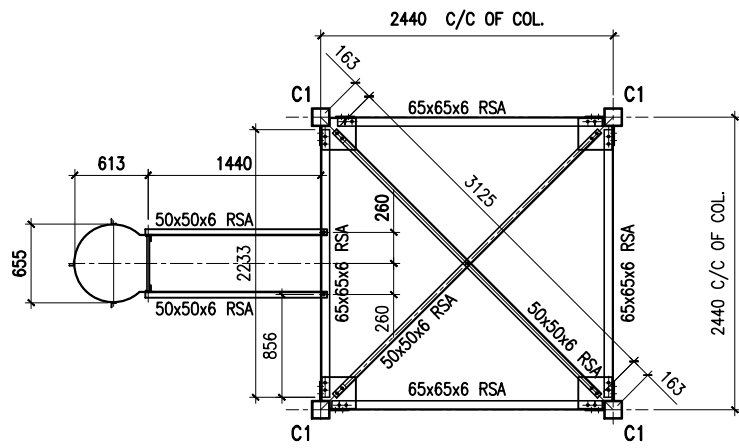
CONTRACTOR

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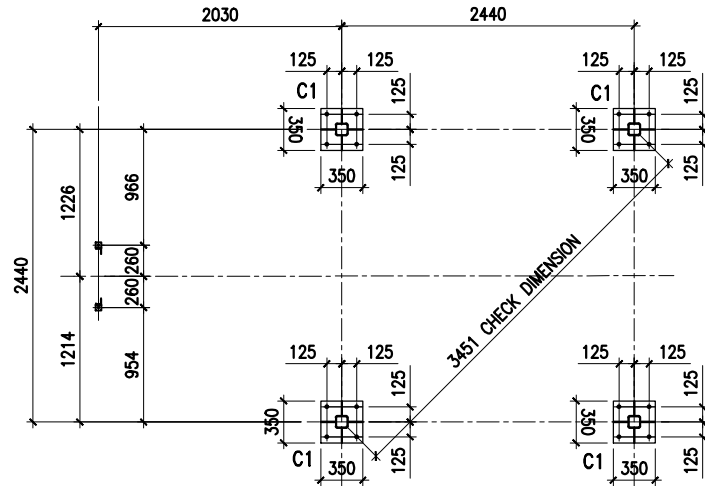
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DRG No.  
**03**

Revision Suffix



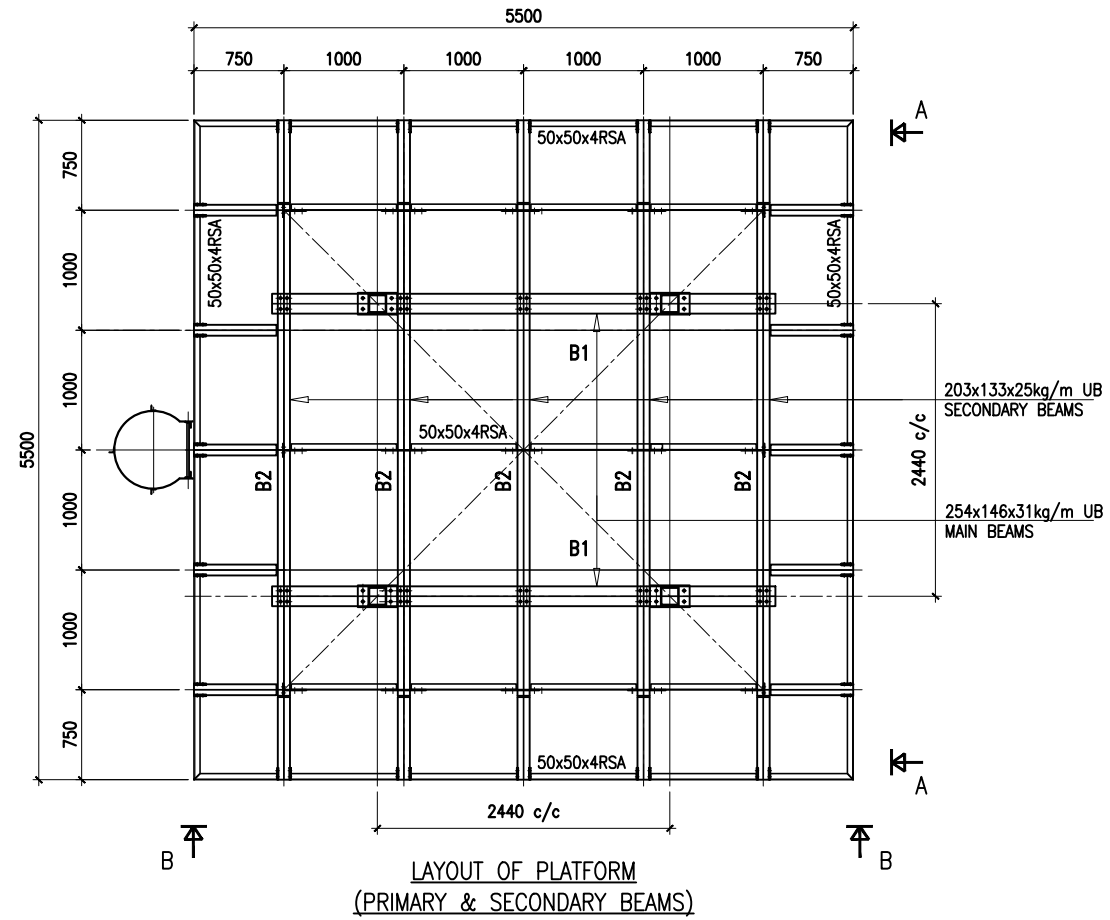
SECTION 01 - 01  
TYPICAL PLAN ON HORIZONTAL BRACINGS



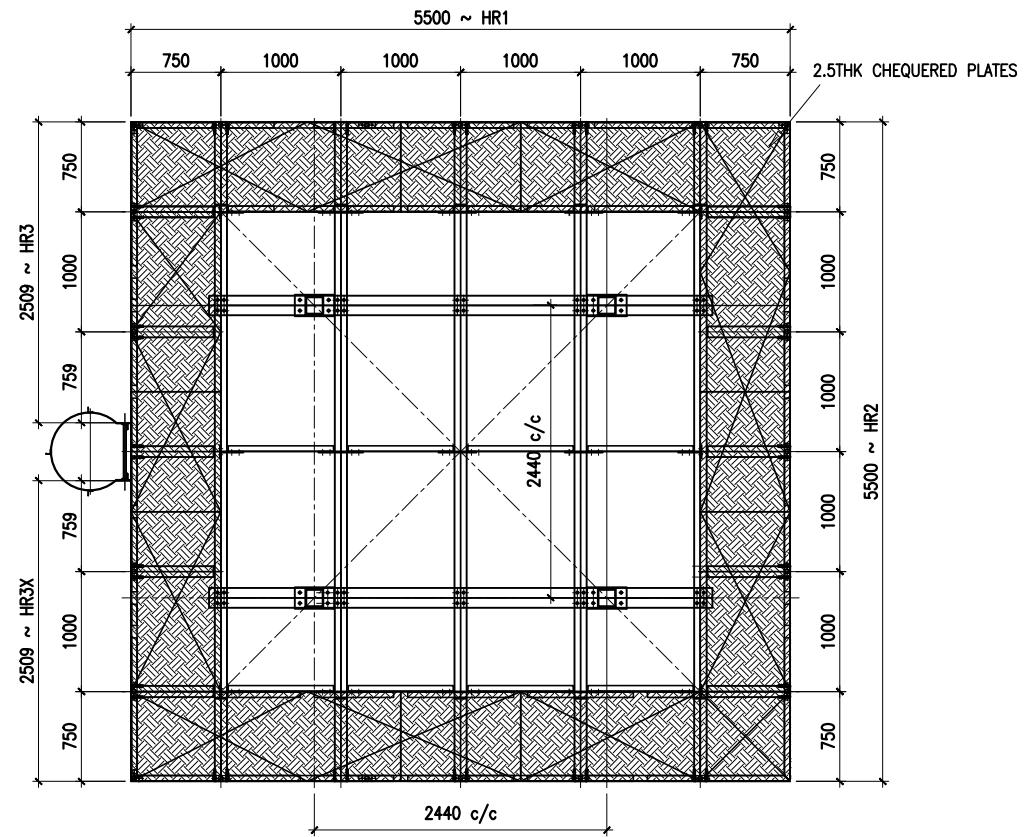
SECTION 02 - 02  
BASE PLATE DETAILS

**GENERAL NOTES:**

- 1) ALL STRUCTURAL STEELWORK TO BE GRADE 43C.
- 2) TOWER STEELWORK TO BE WIRE BRUSHED PRIOR TO PAINT APPLICATION.
- 3) APPLY ONE COAT OF GREY OXIDE PRIMER.
- 4) APPLY TWO COATS OF SILVER ALUMINIUM PAINT.
- 5) ALL SHOP WELDS TO BE 6MM FILLET WELDS U.O.N.
- 6) BOLTS ARE HIGH TENSILE GRADE 4.6. & GRADE 8.8 AND GALVANIZED
- 7) ALL SECTION SIZES TO BE AS SPECIFIED ON DRAWING.
- 8) THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.



LAYOUT OF PLATFORM  
(PRIMARY & SECONDARY BEAMS)



LAYOUT OF PLATFORM  
(CHEQUERED PLATES & HANDRAILS)

**NOTES**

1. READ THE DRAWING IN CONJUNCTION WITH RELEVANT R.C. DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
3. ALL PIPEWORK ARE GALVANIZED IRON TO NP 10 WITH NP 16 FLANGES
4. ALL CONCRETE SHALL BE CLASS C25 UNLESS OTHERWISE STATED
5. ALL VALVES TO BE SUPPLIED WITH EXTENSION SPINDLE.
6. MIN CONCRETE COVER OF 40 mm TO THE MAIN STEEL TO BE MAINTAINED.
7. SAFE BEARING CAPACITY TAKEN AS OF 150KN/M2.
8. ALL FOUNDATIONS TO BE TAKEN DOWN TO A SUITABLE ROCK.
9. MAXIMUM AGGREGATE SIZE FOR CONCRETE IS 20mm.
10. ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.

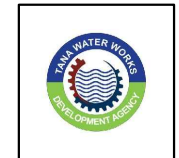
**PROJECT TITLE:**

PROPOSED FABRICATION & ERECTION OF  
48M<sup>3</sup> PRESSED STEEL TANK ON 12M TOWER

**DRAWING TITLE**

PLATFORM DETAILS

**CLIENT**



TANA WATER WORKS  
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**CONTRACTOR**

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04

Revision Suffix