

- GENERAL NOTES:**
1. I/H BEAM TO BE GRADE S355.
 2. PLATES, ANGLES & HOLLOW SECTION TO BE GRADE 43A.
 3. STEELWORK TO BE SHOT BLASTED PRIOR PAINTING.
 4. ALL SHOP WELDS TO BE 6MM FILLET WELDS U.O.N.
 5. BOLTS ARE E.P.G GRADE 4.6 & GRADE 8.8
 6. ALL SECTION SIZES TO BE AS SPECIFIED ON DRAWING.
 7. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 8. THIS DRAWING SHOWS THE GENERAL ARRANGEMENT OF THE PRESSED STEEL ELEVATED TANK.
 9. ALL MATERIALS AND FABRICATION SHALL CONFORM WITH THE RELEVANT B.S. / EN.
 10. TANK HEIGHT = 15m.
 11. TANK TO BE DESIGNED AND SUPPLIED BY APPROVED PRESSED STEEL TANK MANUFACTURER TO THE SPECIFICATION OF THE RESIDENT ENGINEER.

REV	DESCRIPTION	DATE

KISUMU WATER AND SANITATION COMPANY

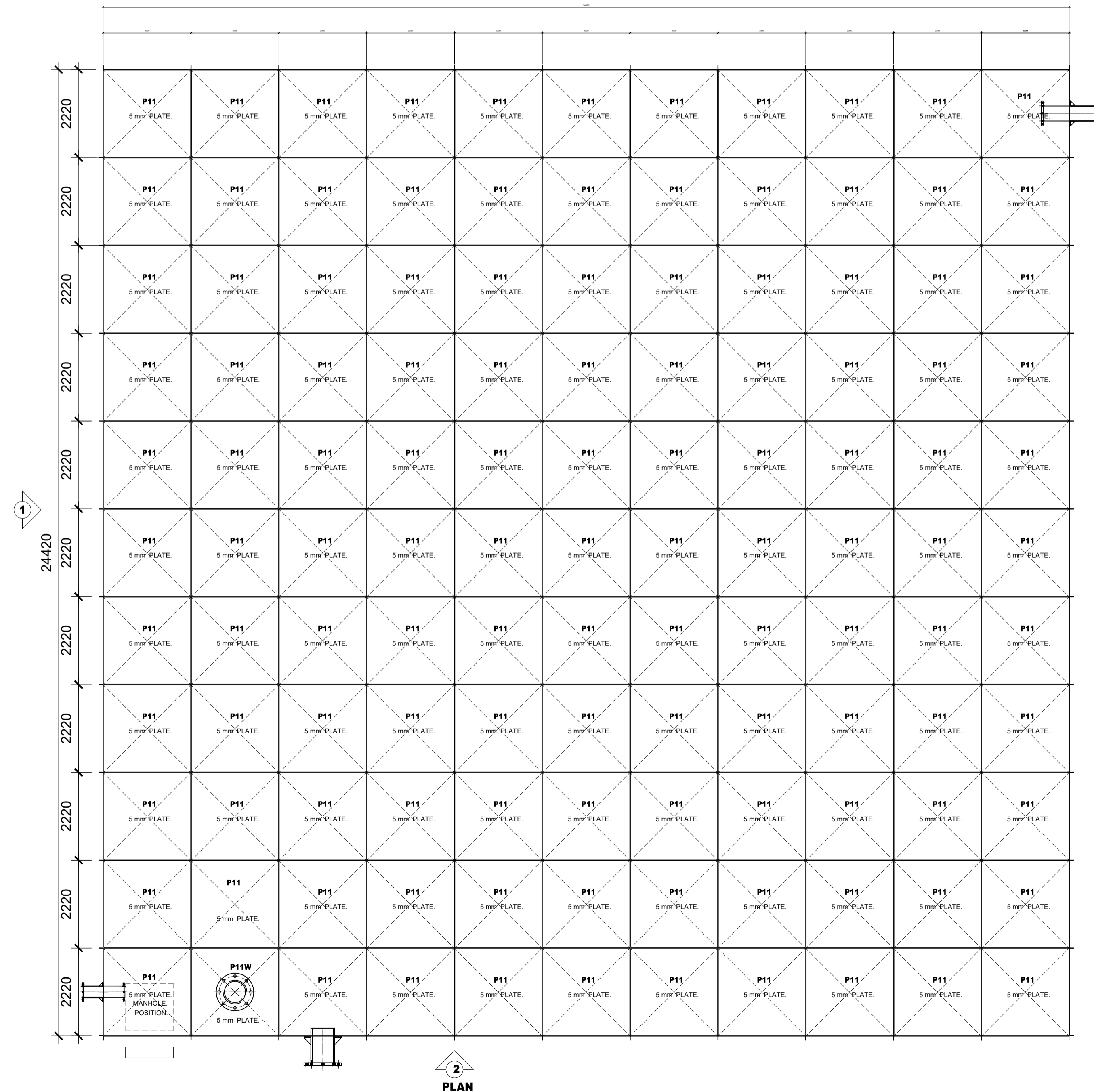
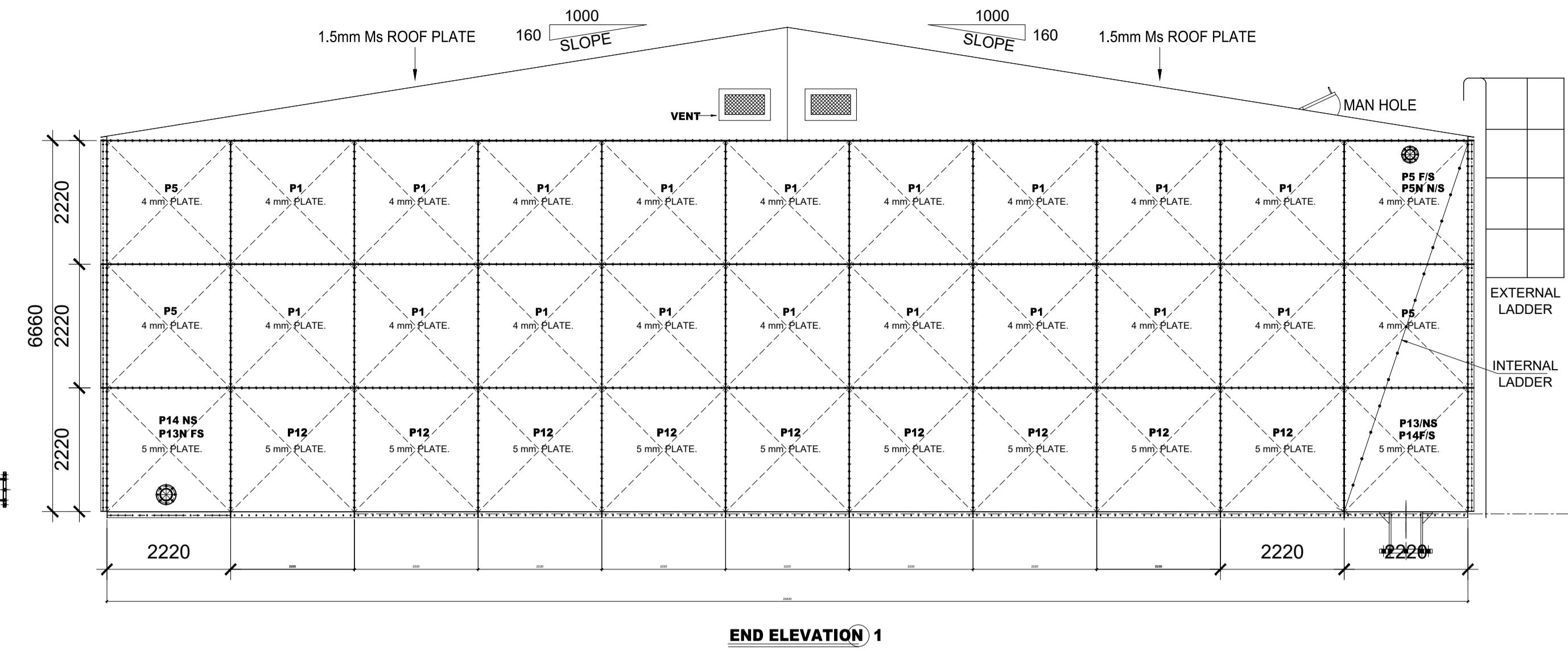
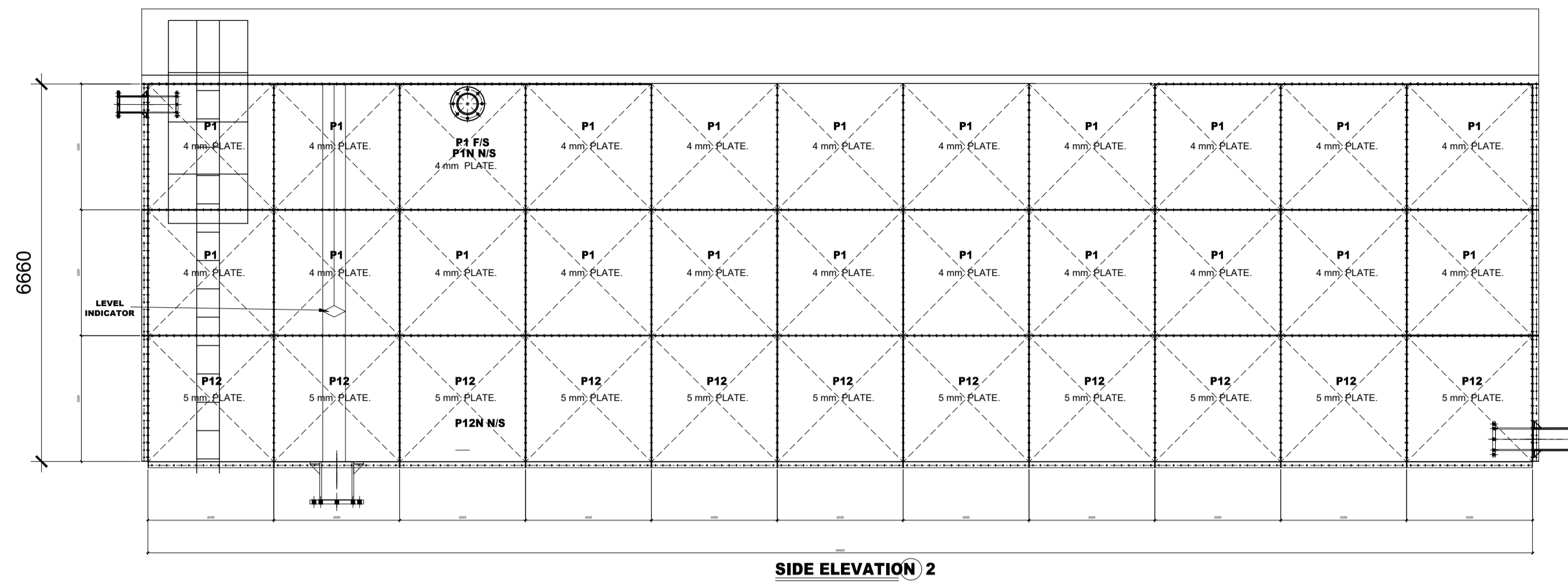
PROJECT: KISUMU WATER SUPPLY IMPROVEMENT AID ON DELIVERY-AOD PROJECT

DETAILED DESIGN

DRAWING TITLE: GENERAL DRAWINGS STEEL ELEVATED TANK 496.5m³ LAYOUT AND SECTIONS

CONSULTANT: Design Master Plan (Fifth Ngong, Avenue Office Suites, Room 12, P.O. Box 58438-00200 Nairobi, Kenya) / Gouff Consultants Africa (Chalbi Drive 3734, Lavington, P.O. Box 49817-00100 Nairobi, Kenya)

DESIGNED BY: E.R	DRAWN BY: S.O
CHECKED BY: D.L	DATE: MARCH, 2026
SCALE: A3 SIZE	SHEET No: 1 OF 3
DRG No: KSM/SD/13	REV.



PANELS

MARK	QTY (1 No.)
P1	79
P1N	1
P5	7
P5N	1
P11	120
P11W	1
P12	40
P13	1
P13N	1
P14	2
TOTALS	253

FABRICATION NOTES

- STEELWORK TO BE SHOT BLASTED PRIOR TO PAINT APPLICATION.
- APPLY ONE COAT OF PRIMER & ONE COAT OF SILVER ALUMINIUM PAINT TO THE OUTSIDE OF TANK.
- APPLY ONE COAT OF PRIMER & TWO COATS OF BLACK BITUMINOUS PAINT TO THE INSIDE OF TANK.
- ALL SHOP WELDS TO BE 6MM FILLET WELDS UNLESS OTHERWISE NOTED.
- ALL BOLTS ARE E.P.G. GRADE 8.8

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- TANK HEIGHT = 15m.
- TANK TO BE DESIGNED AND SUPPLIED BY APPROVED PRESSED STEEL TANK MANUFACTURER TO THE SPECIFICATION OF THE RESIDENT ENGINEER.

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KISUMU WATER AND SANITATION COMPANY

WaterFund **KFW**
GERMAN DEVELOPMENT BANK

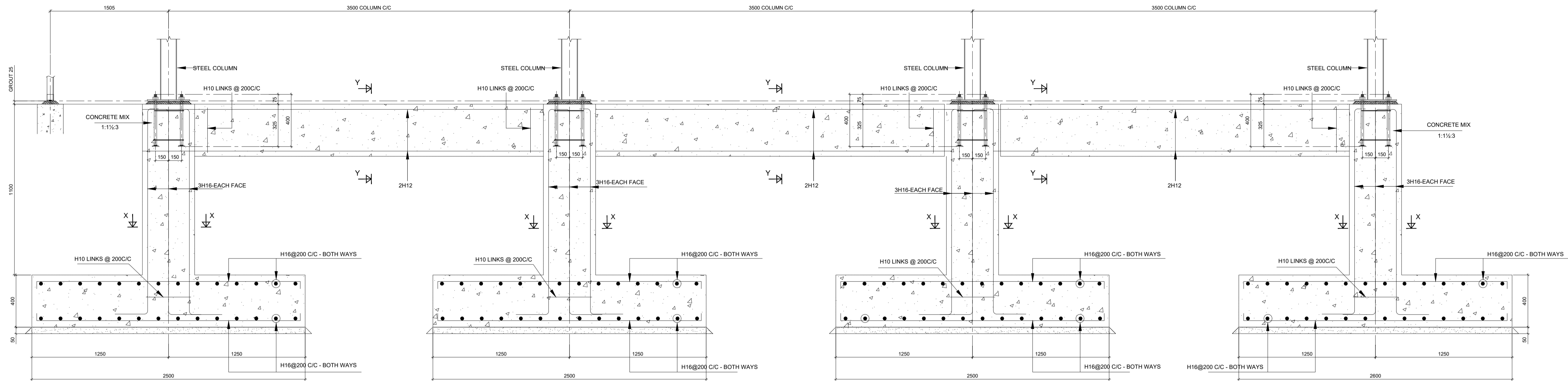
PROJECT:
KISUMU WATER SUPPLY IMPROVEMENT AID ON DELIVERY-AOD PROJECT

DETAILED DESIGN

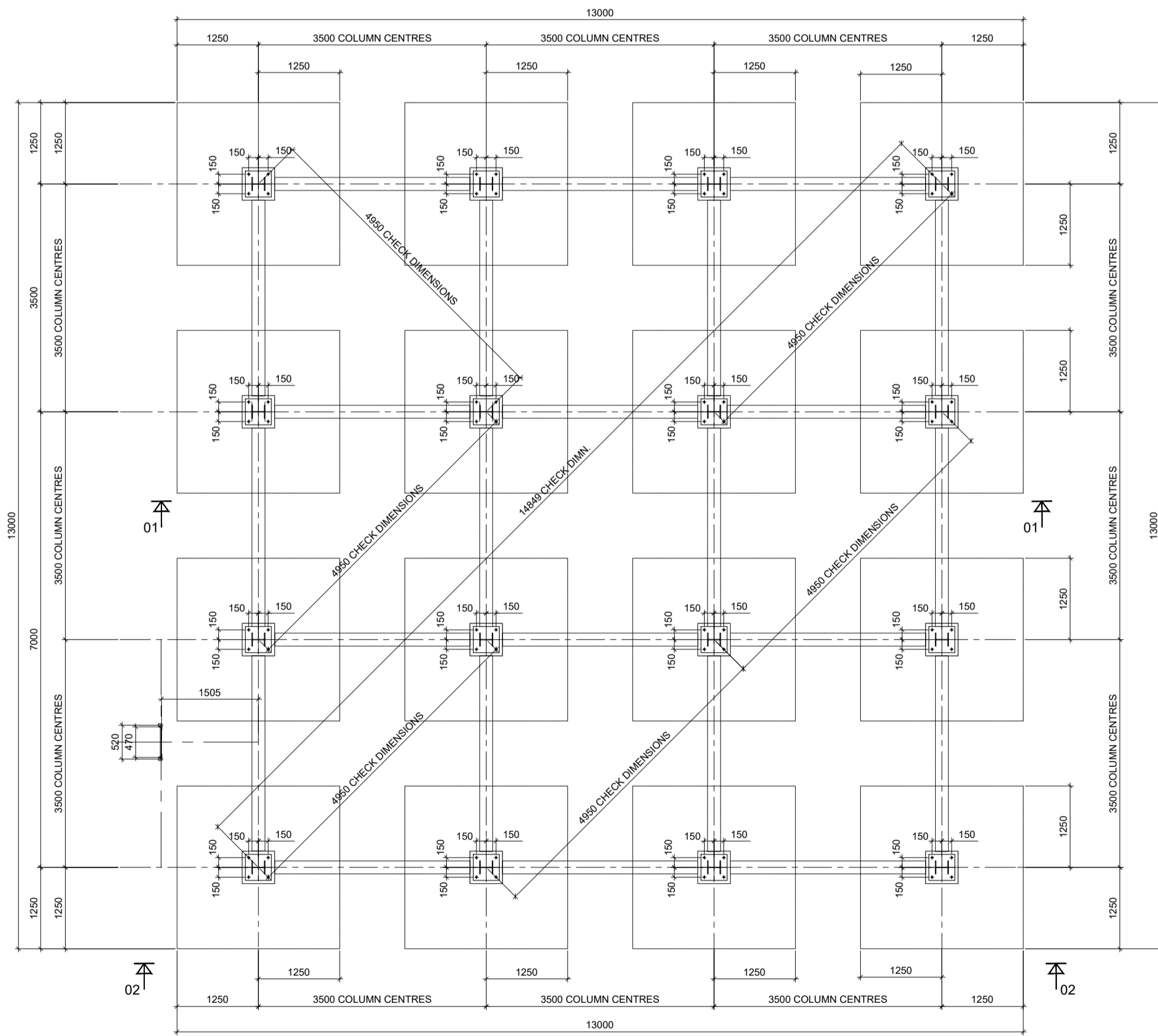
DRAWING TITLE:
GENERAL DRAWINGS STEEL ELEVATED TANK 496.5m³ LAYOUT OF PANELS

CONSULTANT:
Design Master Plan Fifth Ngong, Avenue Office Suites, Room 12, P.O Box 58438-00200 Nairobi, Kenya
Gauff Consultants Africa Chailbi Drive 3734, Lavington, P.O. Box 49817-00100 Nairobi, Kenya

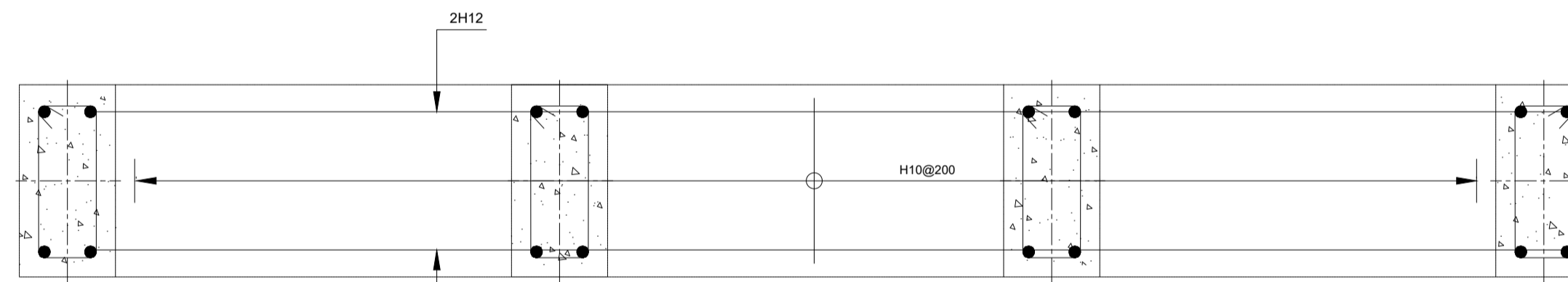
DESIGNED BY:	E.R	DRAWN BY:	S.O
CHECKED BY:	D.L	DATE:	MARCH, 2026
SCALE:	A3 SIZE:	SHEET No:	2 OF 3
DRG No:	KSM/SD/13		REV.



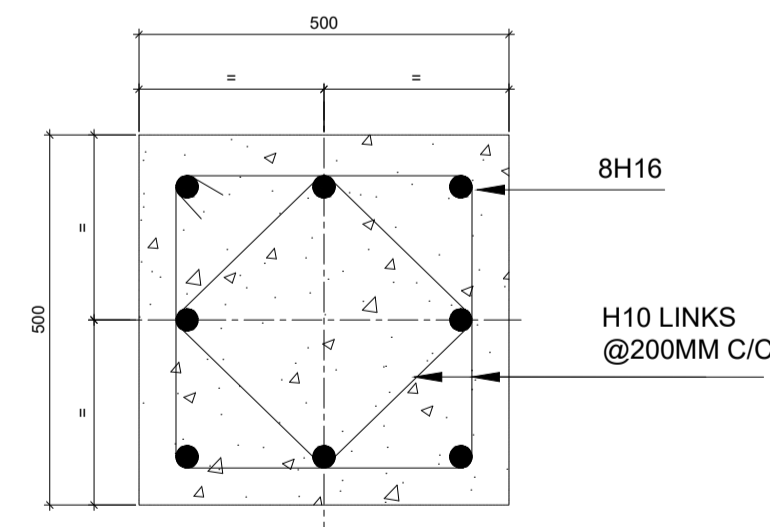
TYPICAL SECTION 02 - 02



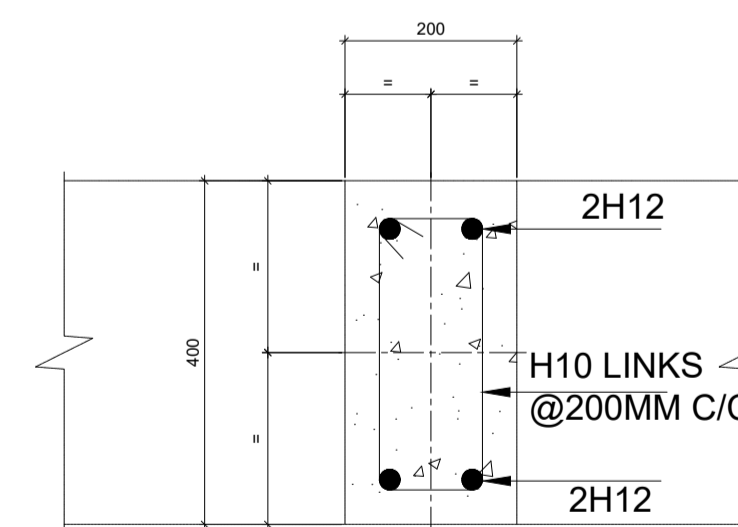
H.D. LAYOUT PLAN



TYPICAL SECTION 01 - 01



TYPICAL SECTION X - X
THRU STUB COLUMNS



TYPICAL SECTION Y - Y
THRU RC BEAMS B1

- NOTES:**
1. MIX OF CONCRETE TO ATTAIN THE STRENGTH OF F_{cu} 25 N/mm²
 2. CONCRETE MIX 1:1½:3
 3. CONCRETE MIX 1:3:6 BLINDING
 4. WATER CEMENT RATIO 0.5
 5. CUBE STRENGTH 28 DAYS - 25 N/mm²
 6. REINFORCEMENT STEEL STRENGTH - 450/250 N/mm²
 7. COVER TO BASE - 50mm
 8. COVER TO COLUMN - 40mm
 9. CONTRACTOR TO CONFIRM CHECK DIMENSION USING STEEL TAPE MEASURE.
 10. HOLDING DOWN BOLTS TO BE CAST TO +5mm ACCURACY AND SHOULD BE RECAST IF THIS TOLERANCE IS EXCEEDED.
 11. CONTRACTOR TO CONFIRM LEVELS OF FOUNDATIONS.
 12. ASSUMED GROUND BEARING PRESSURE - 150 KN/M²
 13. TANK TO BE DESIGNED AND SUPPLIED BY APPROVED PRESSED STEEL TANK MANUFACTURER TO THE SPECIFICATION OF THE RESIDENT ENGINEER.

REV	DESCRIPTION	DATE



KISUMU WATER AND SANITATION COMPANY



PROJECT:
KISUMU WATER SUPPLY
IMPROVEMENT AID ON DELIVERY-
AOD PROJECT

DETAILED DESIGN

DRAWING TITLE:
GENERAL DRAWINGS
STEEL ELEVATED TANK 496.5m³
RC FOUNDATION DETAILS &
H.D. BOLTS LAYOUT

CONSULTANT:
Design master Plan Fifth Ngong, Avenue Office Suites,
Room 12, P.O Box 58438-00200
Nairobi, Kenya
CIVIL ENGINEERING CONSULTANTS
IN JOINT VENTURE WITH
Gauff Consultants Africa Chalbi Drive 3734, Lavington,
P.O. Box 49817-00100 Nairobi,
Kenya

DESIGNED BY: E.R	DRAWN BY: S.O
CHECKED BY: D.L	DATE: MARCH, 2026
SCALE: A3 SIZE	SHEET No: 3 OF 3
DRG No: KSM/SD/13	REV.