ARCHITECTURAL DESIGNS AND DRAWINGS

CLIENT





<u>Jubaland State - Goverment Of Somalia</u>

PROJECT

Proposed Construction of FM Radio Kismayo
- Kismayo - JSS

JULY 2025

UN MIGRATION



Lower Shabelle Coordination Center - Architectural Working Drawings





	Drawing Index
	Layout Name
ID	Site location on google map
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PROJECT DETAILS

NAME:

Proposed Construction FM Radio

8/12/2025

Kismayo

LOCATION:

Kismayo

COORDINATES:

Lat: 3°10'35.454"N Long: 46°26'8.172"E

PLOT SIZE:

36mx19M

DATE

DRAWN BY

CHECKED BY

DRAWING

DRAWING TITLE

Index sheet









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PROJECT DETAILS

Proposed Construction FM Radio NAME: Kismayo

LOCATION: Kismayo

COORDINATES: Lat: 2°8'39.180"N Long: 45°7'17.19"E

PLOT SIZE: 36mx19M

DATE 8/12/2025

DRAWN BY

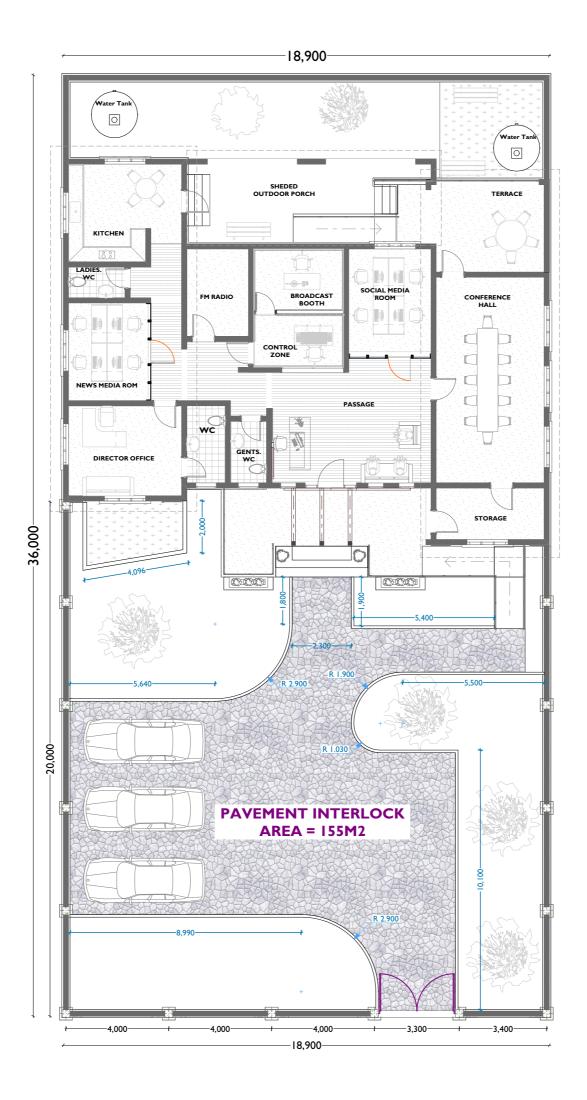
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Site Map











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Kismayo

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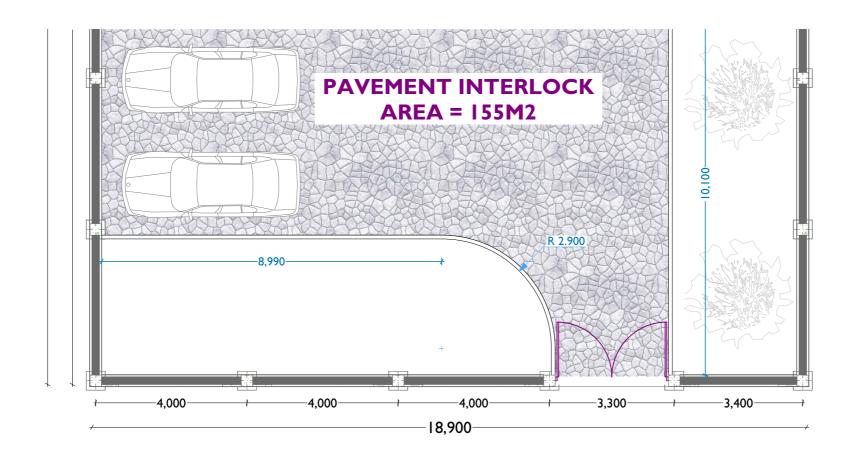
CHECKED BY

DATE

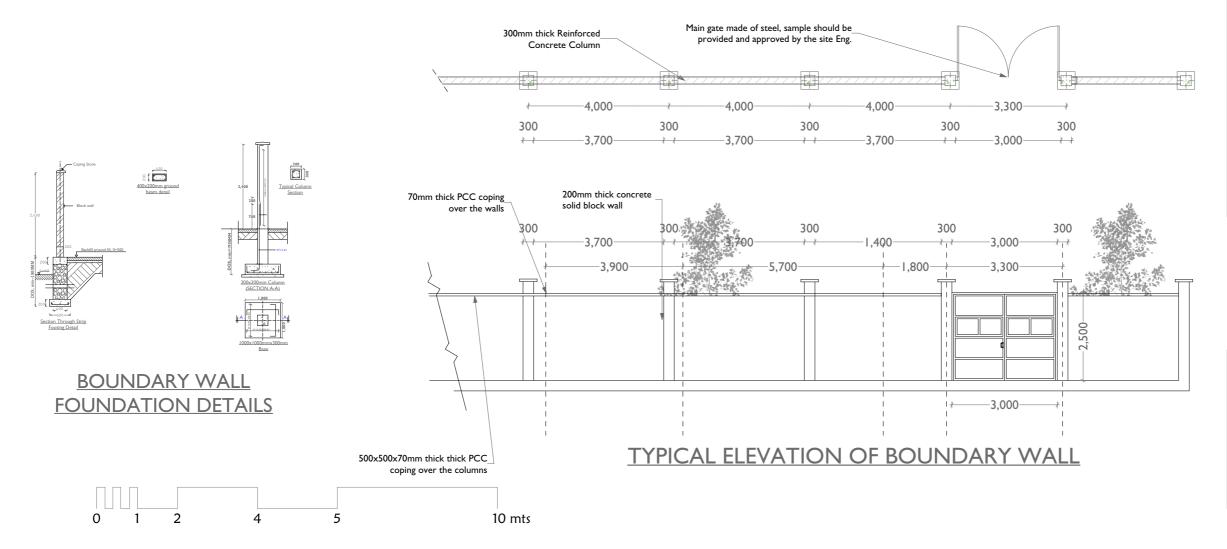
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Site Layout



TYPICAL CONCRETE BLOCK BOUNDARY WALL PLAN





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Kismayo

36mx19M

LOCATION:

Kismayo

COORDINATES:

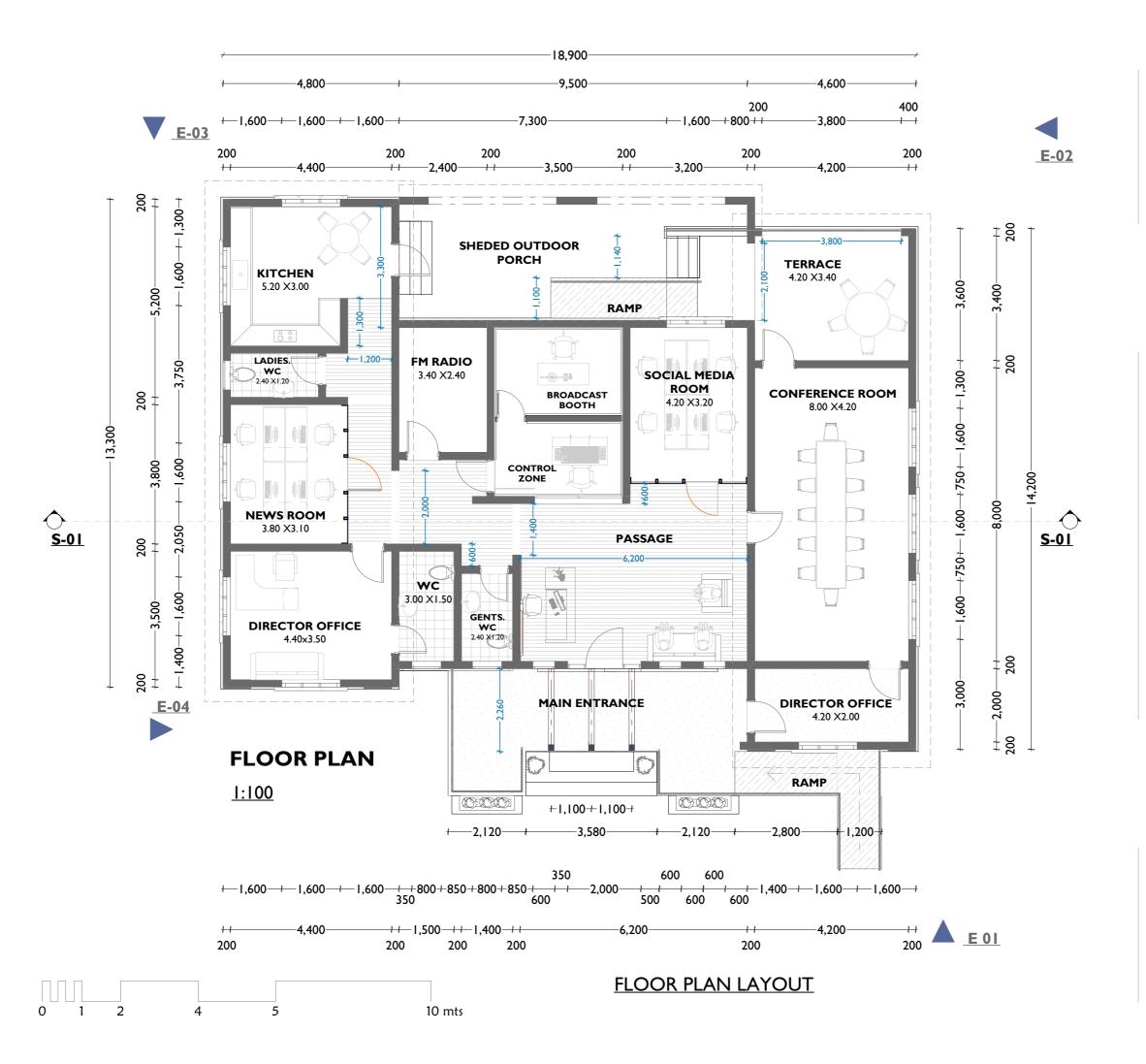
Lat: 2°8'39.180"N Long: 45°7'17.19"E

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Boundary wall Layout









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Kismayo

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COORDINATES: La

Lat: 2°8'39.180"N Long: 45°7'17.19"E

36mx19M

PLOT SIZE: 3

8/12/2025

DRAWN BY

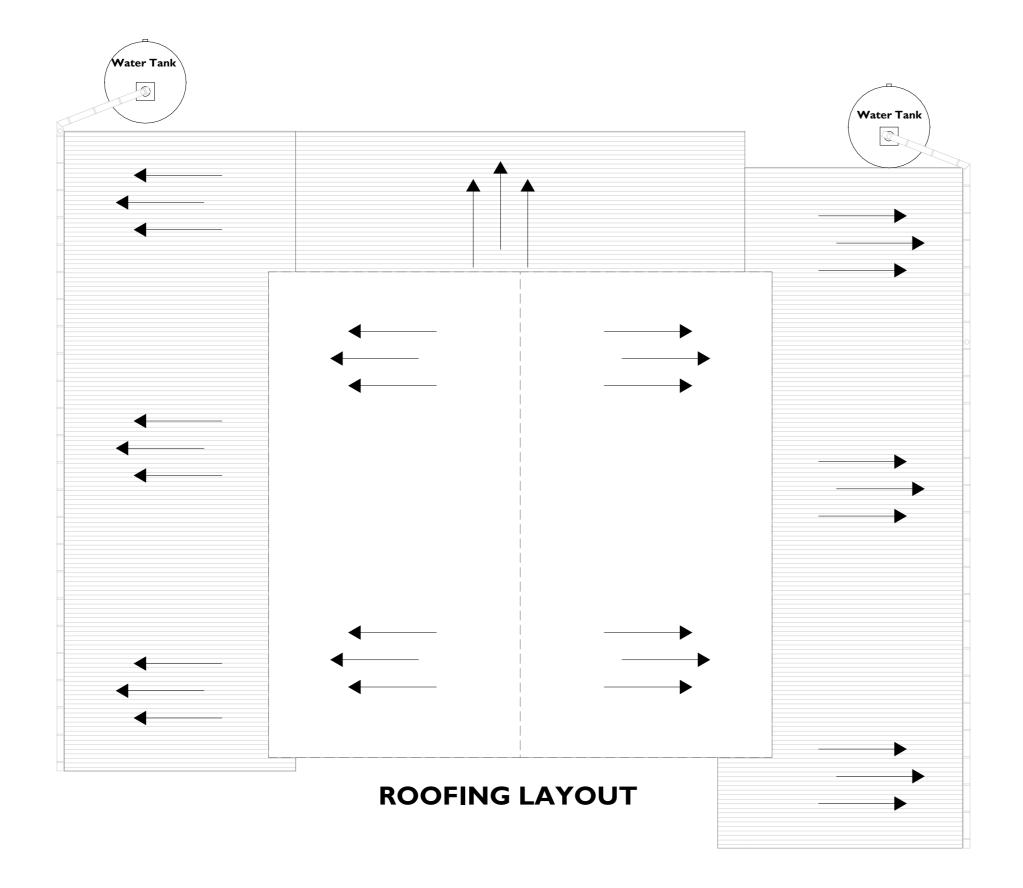
DATE

CHECKED BY

DRAWING

DRAWING TITLE

Floor plan









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COORDINATES: Lat: 2°8'39.180"N Long: 45°7'17.19"E

PLOT SIZE:

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DRAWING

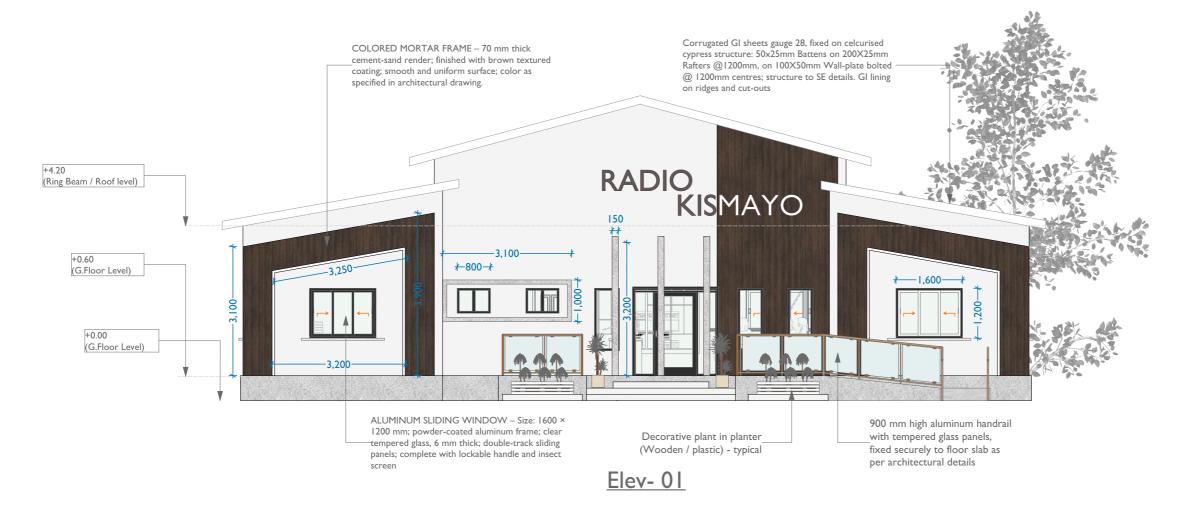
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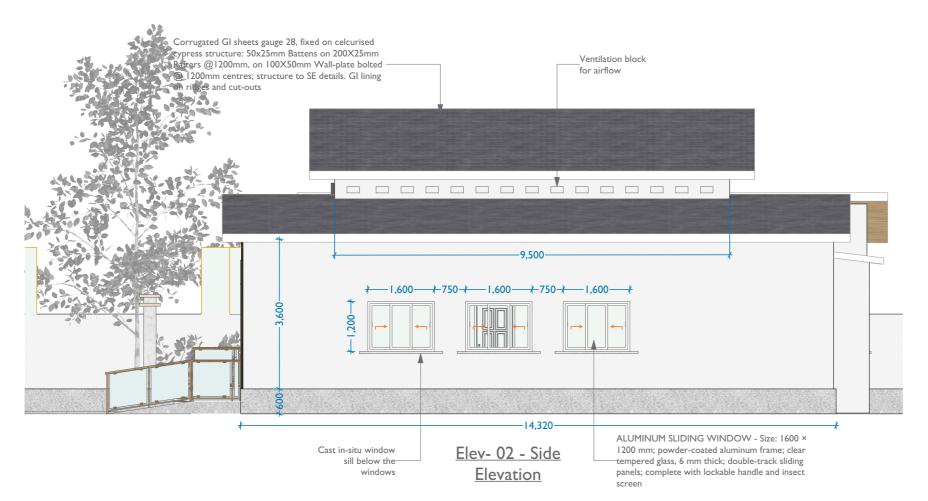
Roof plan

SHEET NO. 8



ROOF LAYOUT











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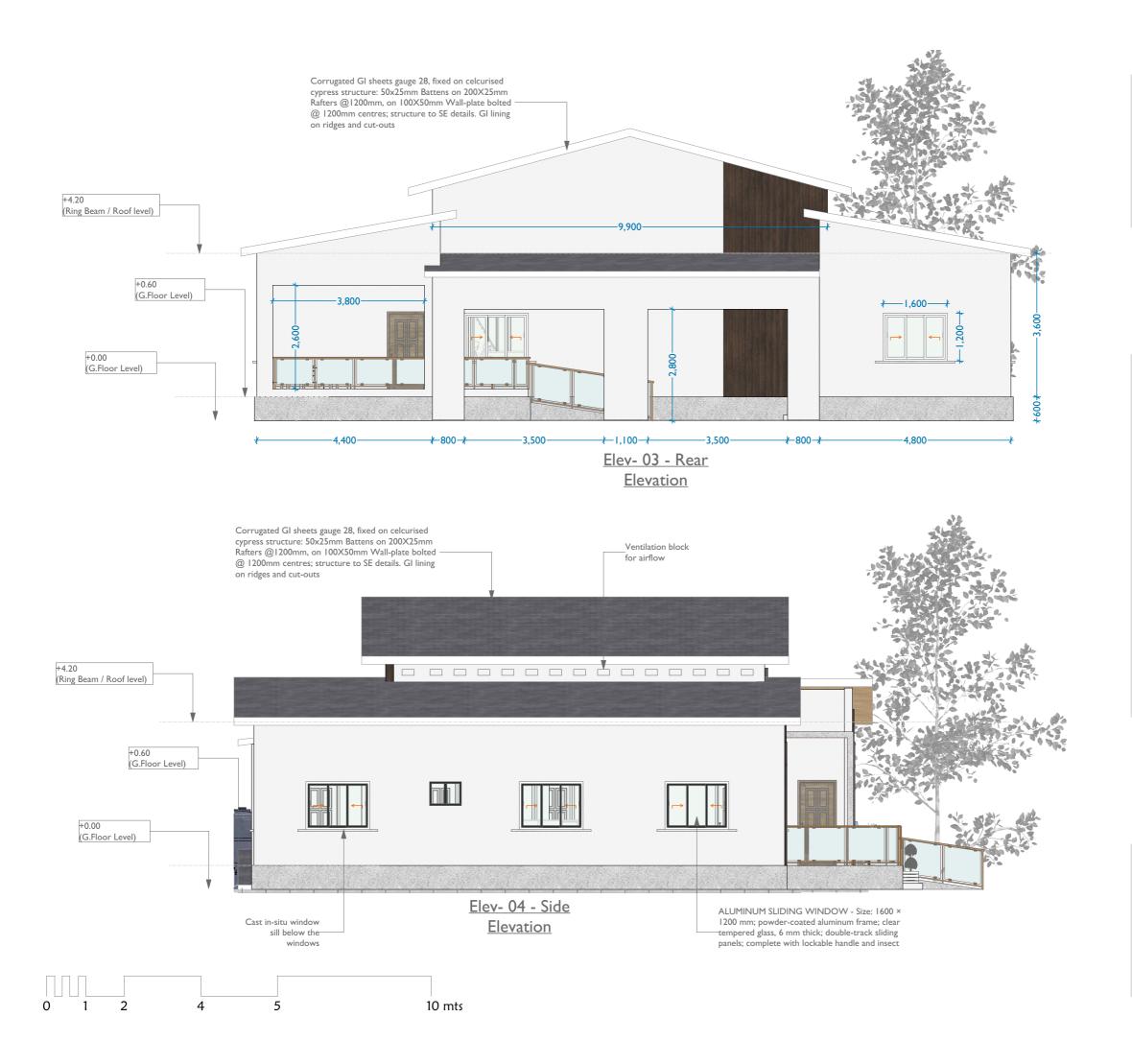
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Isometric art









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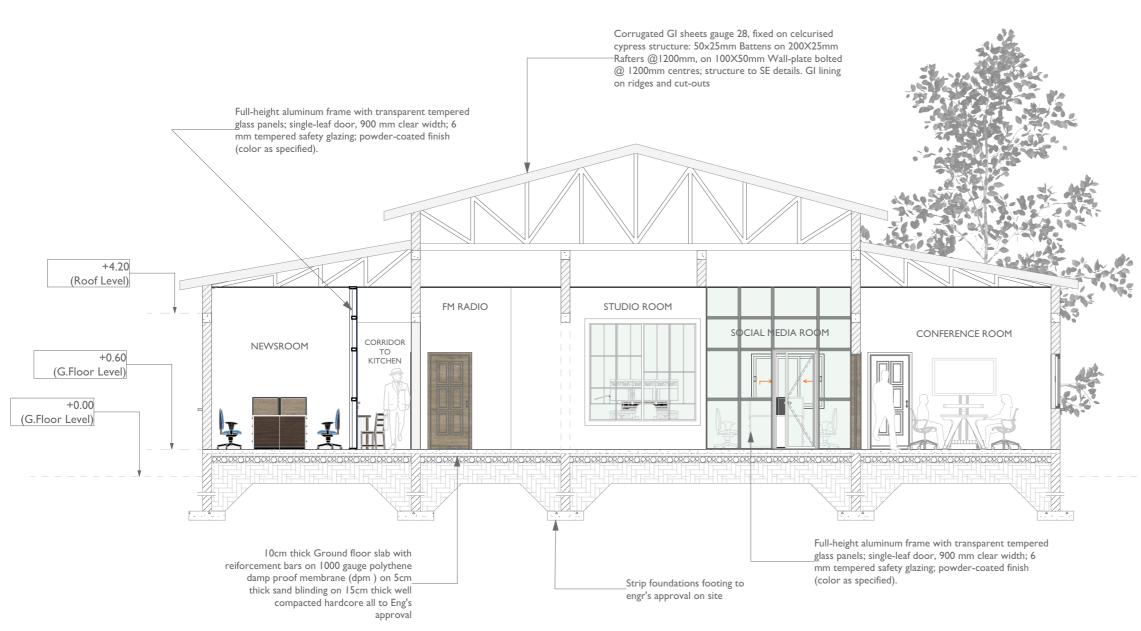
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DRAWING #

DRAWING TITLE

Elevations - 3&4



Sectional Vlew



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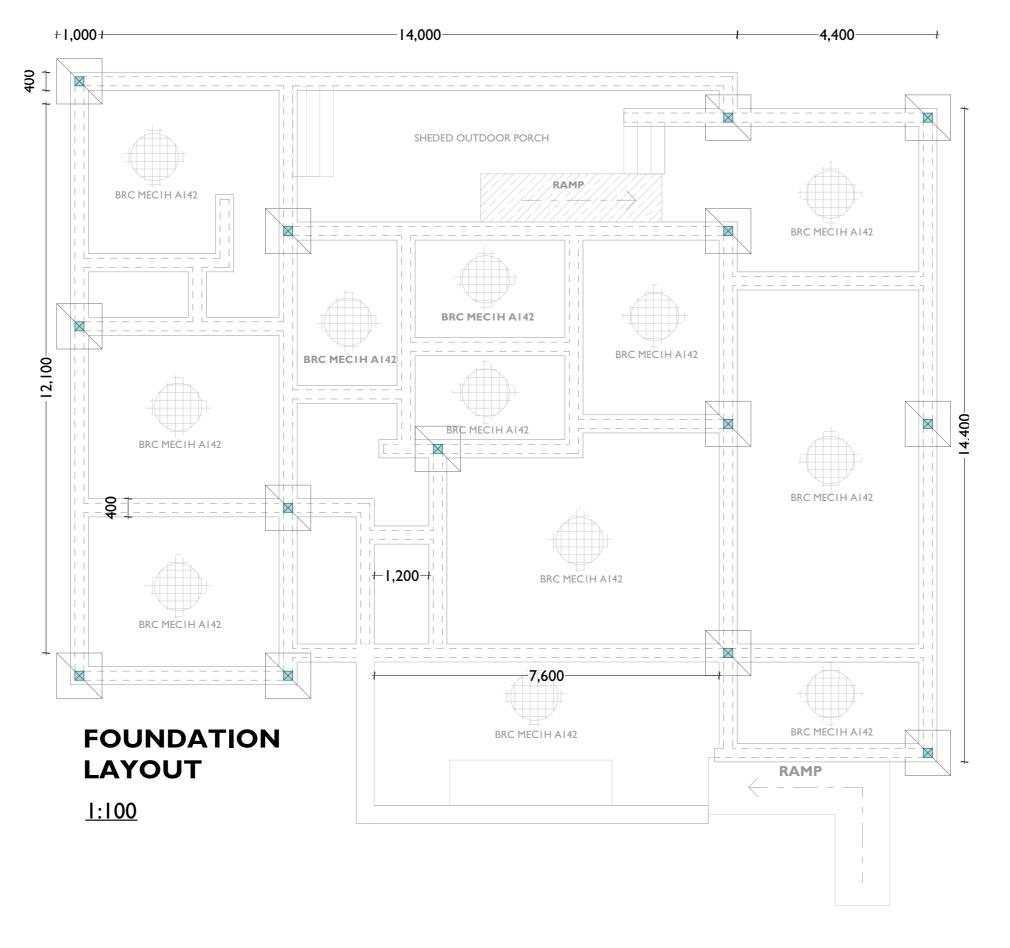
DRAWING #

DRAWING TITLE

Sectional view

SHEET NO. ||











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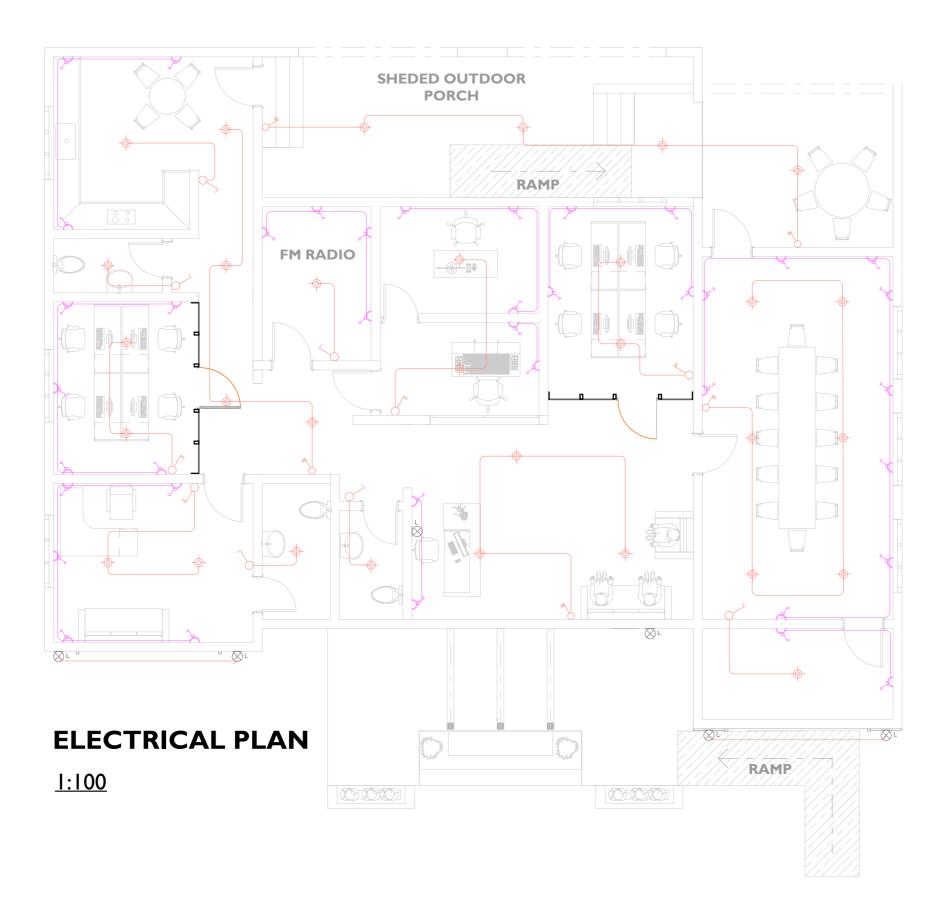
DRAWING TITLE

Foundation layout

SHEET NO. 12



FLOOR AREAS -SQM











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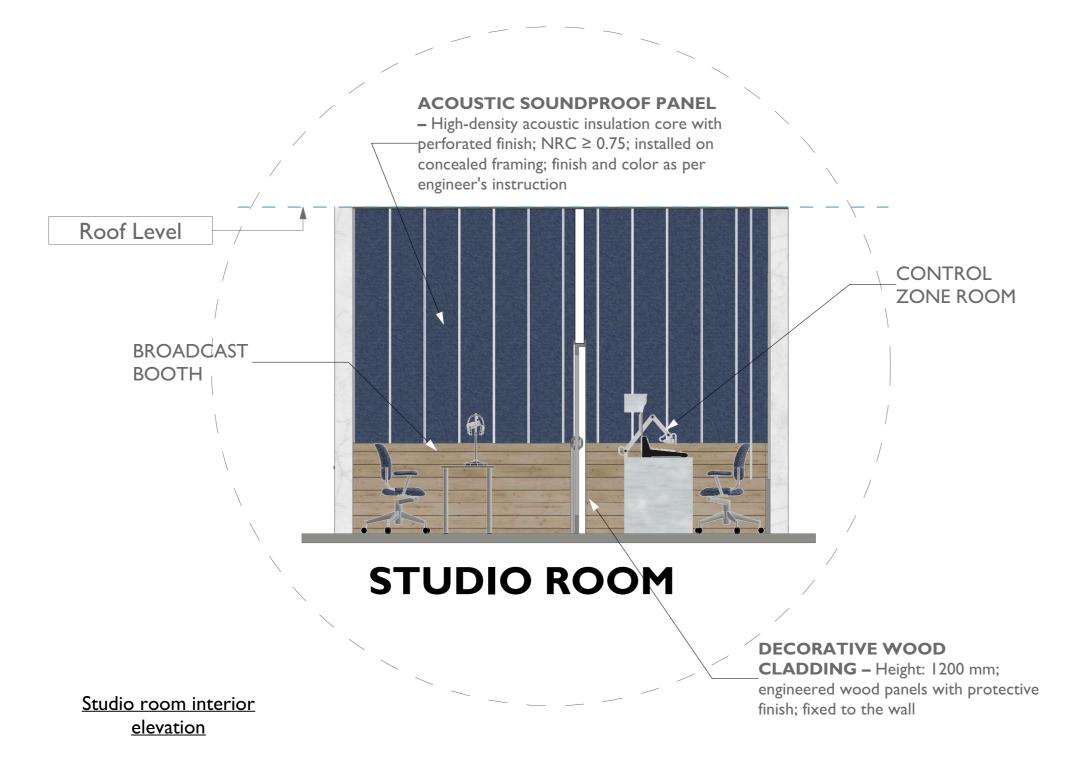
36mx19M

8/12/2025 DATE **DRAWN BY CHECKED BY DRAWING**

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Electrical layout











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DRAWING TITLE

Plumbing layout

SEPTIC TANK FLOOR PLAN 400 400 _3,200-007 MANHOLE COVER 1,700 | A SEPTIC TANK - STONE MASONRY SEPTIC TANK DETAILS _4,000 600X600MM MANHOLE _200MM THICK RCC SLAB COVER TYPICAL COLUMN SECTION G.L INLET PIPE 2,500 SLUDGE 400MM STONE MASONARY 400 WALL - NO PLASTER SHOULD-BE APPLIED SECTION A-A

SEPTIC TANK DETAILS



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CHECKED BY	#
DRAWING	#

DRAWING TITLE

Septic tank details



4 TREADS @300=1200 ENTRANCE LVL. (+600)A142 BRC MESH 500G DPM SHEET **EXISTING** GROUND LVL (+0)50MM QUARRY DUST/ MURRAM BLINDING 250MM THICK WELL COMPACTED HARDCORE T10-01-250 50MM BLINDING

CONCRETE

(1:3:6)

ىر 3T8−02 ىر

ىر 200 ير 200 ير 200 ي

y 600 y

SECTION 03-03

WITH AN EPOXY COATING OR ZINC RICH PRIMER TO PROTECT FROM

1. ALL BASES SHOULD BE FOUNDED ON ROCK OR FIRM STRATUM.

3. GROUND BEAMS ARE REQUIRED TO TIE ALL R.C COLUMNS

THIS CAPPING LAYER.

CORROSION.

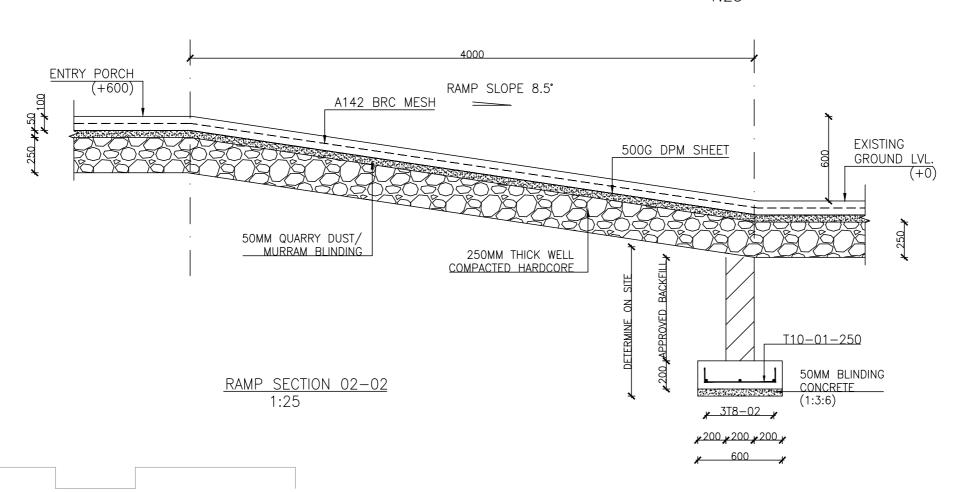
2. IF NO ROCK EXISTS AND IN THE PRESENCE OF CLAY SOIL TO A DEEP LEVEL,

EXCAVATION SHOULD BE MADE TO A MINIMUM OF 2M, SUBGRADE COMPACTED

TO 98% MDD AND BACKFILLED WITH 600MM LAYER OF HARDCORE/BOULDERS WITH MIN. CBR OF 80%, WELL COMPACTED AND INTERSTICES FILLED WITH

GRADED STONES AND STABLE SOIL. FOUNDATIONS CAN THE BE FOUNDED ON

ALL EXPOSED COLUMN STARTER BARS AT ROOF LEVEL TO BE PROTECTED



10 mts



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DRAWING TITLE

Ramp and steps detail









3D VIEW - 01









3D VIEW - 02



FM RADIO TOWER

GENERAL NOTES

1. GENERAL & MATERIAL

- 1.1 DESIGN STANDARDS BS, EUROCODE, OR ASTM
- 1.2 SOIL BEARING CAPACITY for BASE TYPE OPTION 1 is 150KN/m²
- 1.3 ALL DIMENSIONS ARE IN 'MM' BUT LEVELS ARE IN 'METERS'.
- 1.4 DO NOT SCALE THE DRAWING.
- 1.5 RCC & LEAN CONCRETE SHALL BE CLASS C25&C15 RESPECTIVELY.
- 1.6 STEEL REINFORCEMENT SHALL HAVE A MINIMUM YIELD OF 415N/MM².
- 1.7 VERIFY THE ADJACENT SITE FEATURES BEFORE EXCAVATION, PROPER CARE TO BE TAKEN TO AVOID/ MINIMIZE DAMAGE TO ADJACENT STRUCTURES.
- 1.8 ANY DISCREPANCY IN THE DRAWING AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER.
- 1.9 THIS FOUNDATION IS NOT APPLICABLE IN AREAS WITH ORGANIC SILT, CLAY, OR PEAT LAYERS.
- 1.10 IT THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY WORKS SUCH SHUTTERING. SCAFFOLDING OF ADEQUATE STRENGTH OTHERWISE THE ENGINEER SHALL BE CONSULTED.
- 1.11 ALL REINFORCEMENT ONCE COMPLETE SHALL BE INSPECTED BEFORE CONCRETING.
- 1.12 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY THE ENGINEER FOR ANY DISCREPANCIES.

2. TECHNICAL SPECIFICATION

- 2.1 MINIMUM COVER TO THE MAIN REINFORCEMENT SHALL BE 50MM.
- 2.2 THE LAP LENGTH OF BARS SHALL BE 50 X BAR DIAMETER AND STAGGERED.
- 2.3 NO HONEY COMBING SHALL BE PERMITTED.
- 2.4 NO CONSTRUCTION JOINTS SHALL BE PERMITTED.
- 2.5 CONSTRUCTION SHALL BE DONE ACCORDING TO RELEVANT CODE (BS, EUROCODE OR ASTM STANDARDS)
- 2.6 STRIPPING OF FORMWORK AND CURING SHALL BE DONE AS PER RELEVANT CODE.

3. EXCAVATION & BACKFILLING

- 3.1 THE SIDE SLOPES FOR EXCAVATION SHALL BE DIVIDED AS PER THE FOLLOWING GUIDELINES.
 - a) FOR SANDY SOILS, SLOPE IV:2H
 - b) FOR CLAYEY SOILS SLOPE IV:1H
 - c) FOR HARD STRATA, VERTICAL CUT

ALTERNATELY, SHORING OR SUFFICIENT SHEET PILES SHALL BE USED DURING EXCAVATION TO AVERT SIDE COLLAPSE.

- 3.2 SAND BEDDING SHALL BE PROVIDED IN ALL FOUNDATIONS AND STONE BEDDING IN MARSHY COTTON SOIL.
- 3.3 IN CASES WHERE THERE IS NO GROUND WATER THE FOUNDATIONS SHALL BE SOAKED WITH WATER FOR 24HOURS AND COMPACTED PRIOR TO PLACEMENT OF LEAN CONCRETE.

- 3.4 LOOSE POCKETS OF SOIL FORMATION WITHIN THE PIT SHALL BE DISCARDED AND REPLACED WITH LEAN CONCRETE AND COMPACTED WELL BEFORE FOUNDATION LAYING.
- 3.5 FOUNDATION PIT SHALL REMAIN FREE FROM WATER DURING FOUNDATION WORKS.
- 3.6 BACKFILL SHALL BE DONE WITH APPROPRIATE FILL MATERIAL PREFERABLY MURRAM.
- 3.7 BACK FILLING SHOULD BE FREE OF ANY DELETERIOUS MATERIAL.
- 3.8 BACK FILLING SHALL BE DONE IN LAYERS NOT EXCEEDING 200MM, WATER SHALL BE SPRINKLED FOR PROPER COMPACTION WITH MINIMUM SOIL DENSITY OF 1600KG/M³.
- 3.9 BACK FILLING SHALL BE DONE SYSTEMATICALLY COMMENCING FROM THE CENTRAL REGION TOWARDS OUTSIDE.
- 3.10 ONCE BACK FILLING IS COMPLETED 50MM HIGH EARTH WILL BE PLACED AROUND THE EXCAVATED SECTION EDGE AND SUFFICIENT WATER POURED OVER THE FILL FOR AT LEAST 24HRS.
- 3.11 FINISHED GROUND LEVEL AT COLUMN SHOULD BE SLOPED AWAY WITH A SLOPE OF 1:3 TO PREVENT PONDING.
- 3.12 SURFACE DRAINAGE OF THE PLOT SHOULD BE RAISED TO AVERT WATER LOGGING AROUND THE FOUNDATION.
- 3.13 THE BASE PLATE ENCASEMENT SHALL BE RAISED TO A LEVEL APPROPRIATE FOR THE SITE.
- 3.14 EXCAVATION LAYOUT WILL VARY DEPENDING ON THE TOPOLOGY OF THE SOIL.

4. TEMPLATE ASSEMBLY/ GROUTING

- 4.1 VERIFY BOLT, NUT SIZE AND LENGTH MATCH THE MANUFACTURER SHOP DRAWINGS.
- 4.2 CONSULT WITH THE ENGINEER ON MATTER PERTAINING INTEGRITY OR DEFECTS OF THE BOLT AND NUT PRIOR TO EXECUTION.
- 4.3 GROUTING UNDER BASE PLATE HAS TO BE DONE WITH FREE FLOW NON-SHRINK GROUT HAVING EQUIVALENT TO THE STUB COLUMN CONCRETE









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MAST ELEVATION

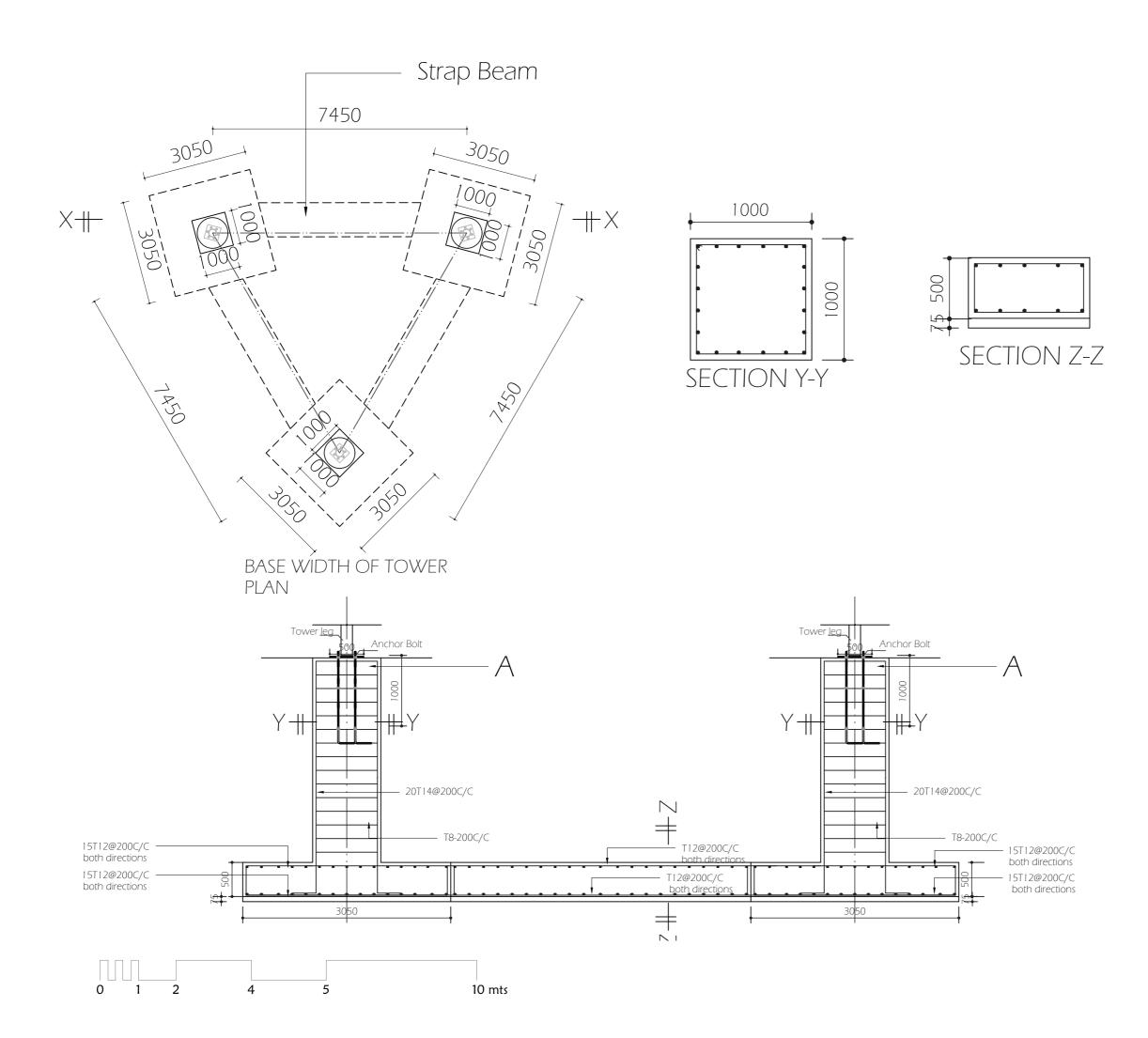
SHEET NO. 21

90 DIAMETER x 5mm PIPE GSM MOUNT LENGTH= 60m TYPICAL FOR 3 SECTORS		∇ 1920 60.0m	AGL
88.9mm Diameter 5.0mmCHS	——30x30x4mm L	▽ 1920 54.0♥	PANEL 01
88.9mm Diameter 5.0mmCHS	——40x40x4mm L	√ 2560 ^{48.0}	ANEL 02 6000
114.3mm Diameter 5.0mmCHS LADDER WITH RESTING PLATFORM AT EVERY 15m	——60x60x5mmL	∇ 3210 ^{42.0} ₩	
139.7mm Diameter 5.0mmCHS		_{▼ 3860} 36.0 დ	PANEL 05 PANEL 04 PANEL 03 6000 6000
139.7mm Diameter 5.0mmCHS		√ 4480 30.0 p	PANEL 05
168.3mm Diameter 6.3mmCHS	60x60x5mmL	▽ 5130 24.0♥	+
168.3mm Diameter 6.3mmCHS	60x60x5mm L	∇ 5750 18.0₩	PANEL 07
168.3mm Diameter 6.3mmCHS	-60x60x5mm L	√ 5750 1515 √	ANEL 08
168.3mm Diameter 6.3mmCHS	60x60x5mm L	V 6370 V	
168.3 Diameter 6.3mmCHS	60x60x5mm L	nus √ t 7620 0.30m	ANEL 10
7.45	plate, base p	late with	

ELEVATION

LIGHTINING ROD OBSTRUCTION LIGHT

	SECTION	
	02011011	
LEG	DIAGONAL	HORIZONTAL
89.9x5CHS	30x30x4 L	30x30x4 L
89.9x5CHS	40x40x4 L	40x40x4 L
114.3x5CHS	60x60x5 L	60x60x5 L
139.7x5CHS	60x60x5 L	60x60x5 L
139.7x5CHS	60x60x5 L	60x60x5 L
168.3x6.3CHS	60x60x5 L	60x60x5 L
168.3x6.3CHS	60x60x5 L	60x60x5 L
168.3x6.3CHS	60x60x5 L	60x60x5 L
168.3x6.3CHS	60x60x5 L	60x60x5 L
168.3x6.3CHS	60x60x5 L	60x60x5 L
	89.9x5CHS 89.9x5CHS 114.3x5CHS 139.7x5CHS 139.7x5CHS 168.3x6.3CHS 168.3x6.3CHS 168.3x6.3CHS 168.3x6.3CHS	89.9x5CHS 30x30x4 L 89.9x5CHS 40x40x4 L 114.3x5CHS 60x60x5 L 139.7x5CHS 60x60x5 L 139.7x5CHS 60x60x5 L 168.3x6.3CHS 60x60x5 L 168.3x6.3CHS 60x60x5 L 168.3x6.3CHS 60x60x5 L 168.3x6.3CHS 60x60x5 L









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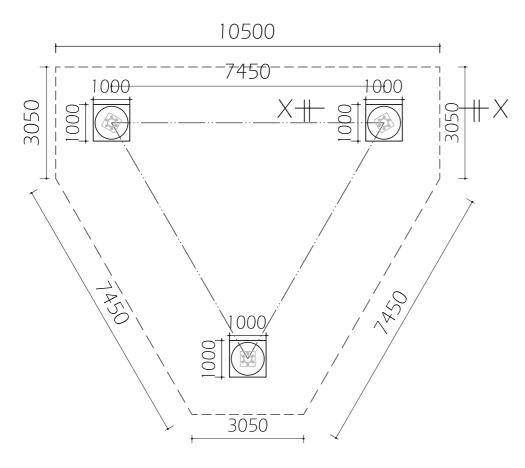
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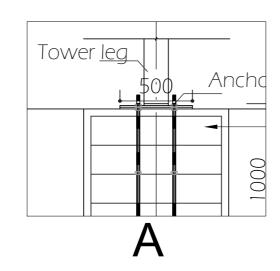
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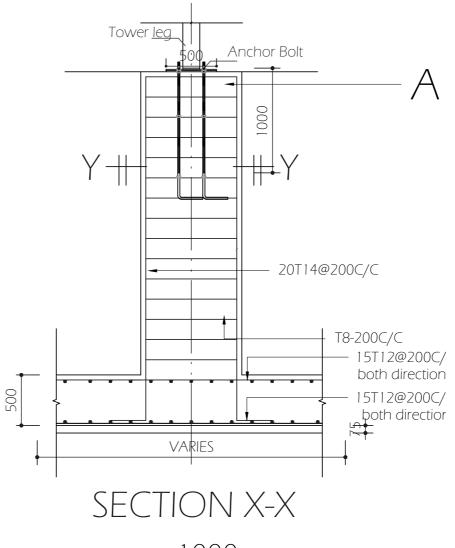
FOUNDATION DETAIL



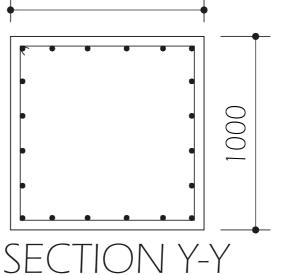
BASE WIDTH OF TOWER PLAN

















GENERAL NOTES

- **1.** All dimensions are in millimetres, unless otherwise stated.
- **2.** All dimensions to be checked and confirmed on site before commencement of any work.
- **3.** Written dimensions overrides scaled dimensions, thus all dimensions are to be read and not at any time scaled from the drawing.
- **4.** Any discrepancy to be reported to the Engineer promptly before proceeding.
- **6.** The PV denotes prmanent ventilation and must provided above all doors and windows where indicated.

PROJECT DETAILS

NAME:

Proposed Construction FM Radio

Kismayo

LOCATION: Kismayo

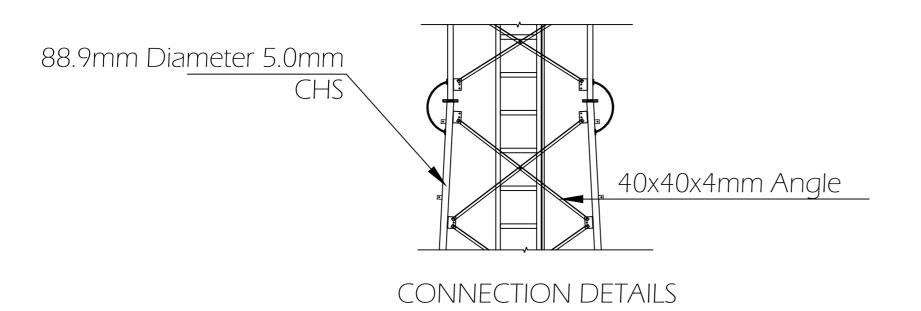
Lat: 2°8'39.180"N **Long:** 45°7'17.19"E **COORDINATES:**

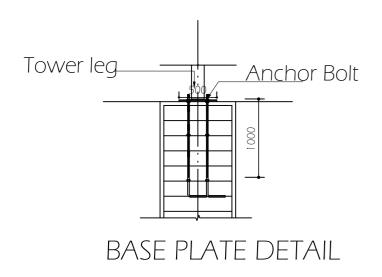
PLOT SIZE: 36mx19M

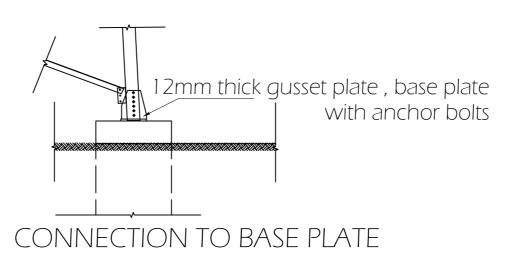
8/12/2025 DATE **DRAWN BY CHECKED BY DRAWING**

DRAWING TITLE

RAFT BASE - FOUNDATION DETAIL













GENERAL NOTES

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PROJECT DETAILS

NAME:

Proposed Construction FM Radio

Kismayo

LOCATION:

Kismayo

COORDINATES:

Lat: 2°8'39.180"N **Long:** 45°7'17.19"E

PLOT SIZE:

36mx19M

DATE	8/12/2025
DRAWN BY	
CHECKED BY	#
DRAWING	#

DRAWING TITLE

CONNECTION DETAILS

