

25mm x 25mm chamfers to all exposed reinforced concrete elements.

Brickwork Strapping Note:
All new brickwork to be tied to new r.c. columns and r.c. walls with 30mm wide x 1.2mm thick x 800mm long galvanised steel straps. 100mm of steel strap shot fired to new r.c. column and r.c. wall and 700mm of steel strap built into brick wall every 3rd course. Each brick skin (in every 3rd course) to be tied to r.c. columns and r.c. walls.

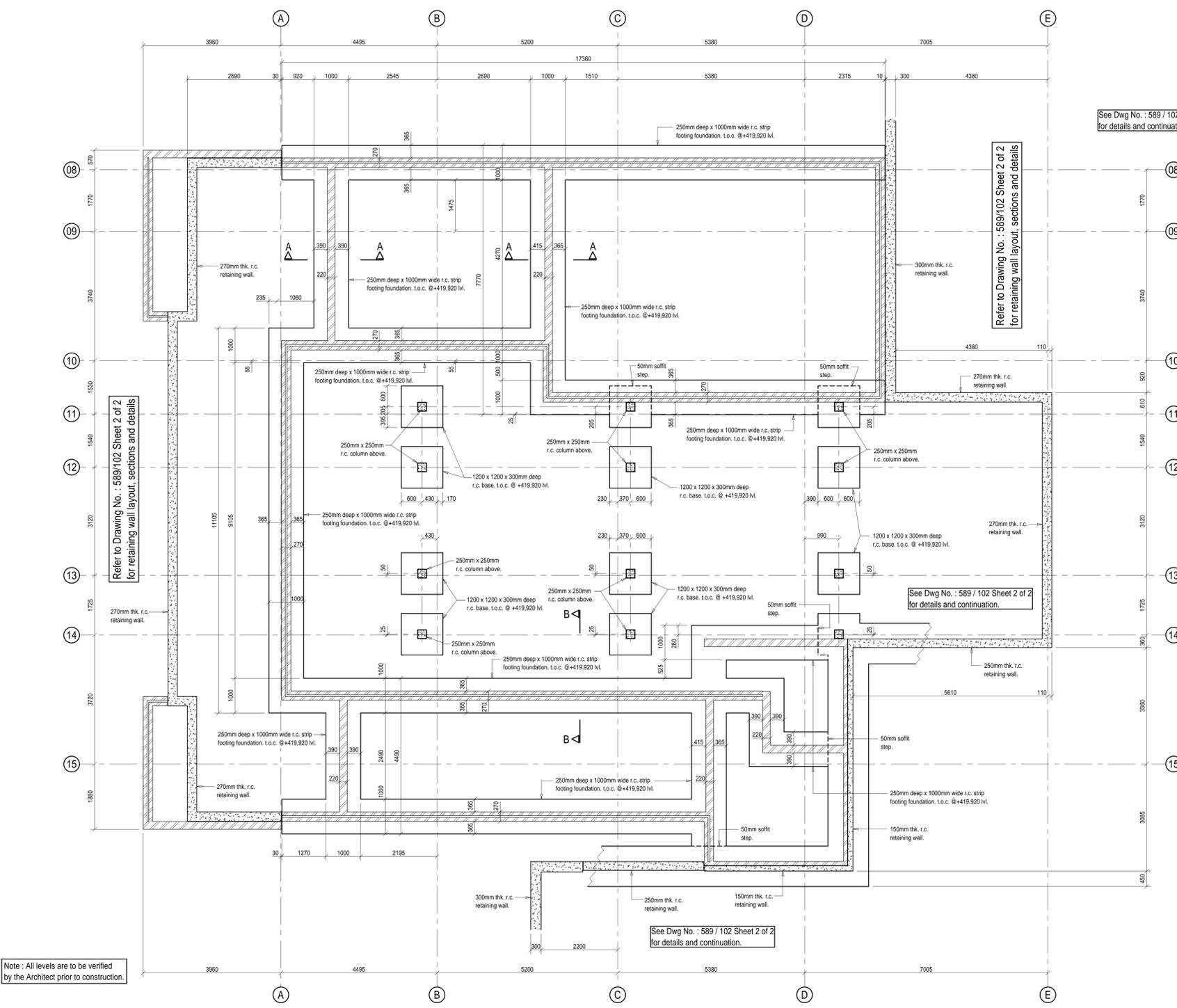
Penetron Specification:
Penetron is to be used for all R.C. Retaining Walls (and all R.C. Elements where one face of the concrete element is in direct contact with soil and the other face of the concrete element is exposed).
1. All R.C. Retaining Walls (30 MPa) are to be waterproofed with Penetron Admix with Tracer, 20 year warranty, dosed at 0.8% by weight of cementitious content, all to manufacturer's specifications and details.
2. All formwork ferrule tubes are to be removed by drilling a slightly larger hole than the ferrule hole. Then prime the ferrule hole with a Penetron Slurry Coat. Repair the ferrule tube hole by completely filling the hole with Penetron Mortar / Penetron Slurry combination, all to manufacturer's specifications and details.
3. Penetron Penetab S155 Type 'A' is to be installed with Penetab Primer, along all R.C. Wall and R.C. Footing interfaces, along all construction joints (vertically and horizontally) and is to be installed by an approved applicator and all installed in accordance with the manufacturer's specifications and details.

Foundation Notes:
1. As noted in the Geotechnical Report, soft excavation is anticipated, up to depths of 1.5m to 2.0m.
2. Structures with higher bearing pressures should be placed onto 'dense' to 'very dense' material at average depth of 1.6m below existing ground levels.
3. As noted in the Geotechnical Report, depending on the proposed final depth of foundations, excavations should be excavated to the proposed final depth and backfilled with the engineered material of at least G6 quality material compacted in layers not exceeding 300mm thick to 92% MOD AASHTO Density.
4. 50mm thick blinding layer to all foundation excavations.
5. A "thicker" blinding layer (min. 50mm to max. 150mm) will be required to level the base of the foundation trenches prior to rebar installation.
6. All foundation excavations are to be inspected and approved by the Structural Engineer prior to installing the reinforcement for the foundations.

GENERAL NOTES:
1. All levels and dimensions to be checked on site.
2. This drawing is to be read in conjunction with the Architectural drawings.
3. All concrete work is to comply with SABS 1200G.
4. Concrete Class :-
a) Strip Footings & Bases = 25 MPa
b) Columns & Staircases = 30 MPa
c) Slabs & Beams = 25 MPa
d) Retaining Walls = 30 MPa
e) Surface Bed Slabs = 25 MPa
f) Blinding = 10 MPa
5. Cover to reinforcement :-
a) Strip Footing & Bases = 50mm
b) Columns (Below Ground) = 50mm
c) Columns (Above Ground) = 40mm
d) Slabs, Beams & Staircases = 30mm
e) Slabs (On the Ground) - Bottom Mat = 50mm
f) Slabs (On the Ground) - Top Mat = 30mm
g) Retaining Walls (Earth Face) = 50mm
h) Retaining Walls (Front Face) = 40mm
6. All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
7. All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
8. Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
9. The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
10. All structural concrete is to be cured for a minimum of five days.
11. All brickwork shown 'hatched' are load bearing. All load bearing brickwork is to be 140Pa NFX bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply malthod placed on a smooth rendered surface.
12. All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
13. All concrete plaster and brickwork plaster interfaces to receive V-joints.
14. The Engineer requires 24 hours notice for all inspections.

Brickwork Notes:
1. All solid brick walls are 220mm wide or 110mm wide with brickwork built in every course below surface bed level, above all window and door openings, and every 3rd course above surface bed level with 150mm wide x 2.8mm thick NHRBC Galvanised Brickwork for 220mm wide walls and 75mm wide x 2.8mm thick NHRBC Galvanised Brickwork for 110mm wide walls.
2. All cavity brick walls are 270mm wide with 110mm wide inner & outer skin brickwork with 50mm wide central cavity with brickwork built in every course below surface bed level, above all window and door openings, and every 3rd course above surface bed level with 230mm wide x 2.8mm thick NHRBC Galvanised Brickwork.
3. All brickwork to be min. 140Pa NFX bricks in Class 2 mortar.
4. All 110mm wide walls are to be constructed directly onto the 170mm thick surface bed slabs.
5. All load bearing brickwork and concrete interfaces to receive a 'Slip Joint' of which consists of the following: 2 layers of 3 ply malthod on a smooth rendered surface on top of the load bearing brickwork.

A. Classification of Concrete Finish to Top Surfaces of R.C. Slabs:
The following 'Finish' is to be applied to all the top surfaces of the concrete: CF1 - The following 'Finish' is to be applied to all suspended r.c. slabs and r.c. surface bed slabs: The top surfaces of the slabs are to be powerfloated (with a woodfloat finish) to Degree of Accuracy II as per SABS 1200 G specification.



See Dwg No. : 589 / 102 Sheet 2 of 2 for details and continuation.

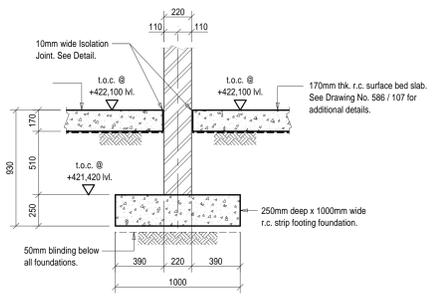
Refer to Drawing No. : 589/102 Sheet 2 of 2 for retaining wall layout, sections and details

See Dwg No. : 589 / 102 Sheet 2 of 2 for details and continuation.

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Note : All levels are to be verified by the Architect prior to construction.

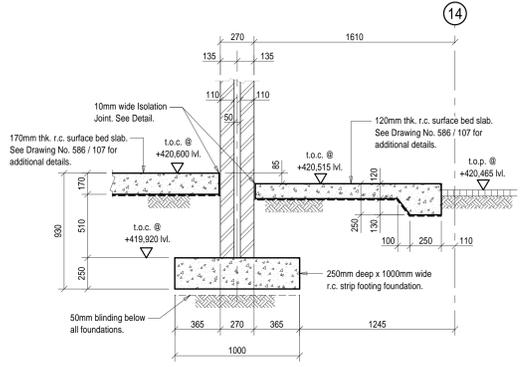
PLAN : ADMIN BUILDING
LOWER LEVEL : FOUNDATION LAYOUT



SECTION A - A

Note : Final depth and final foundation levels to be confirmed by the Structural Engineer on site.

All compacted bulk and engineered fill below all foundations, to civil Engineers details and specifications.



SECTION B - B

This Drawing is to be read in conjunction with the latest Architectural Drawings and any discrepancies to be reported to the Architect and/or Structural Engineer.

REV.	DESCRIPTION	BY	DATE
T1	FOR TENDER	S.N.	11/04/2025
P2	TYPICAL DETAILS ADDED	S.N.	09/10/2024
P1	PRELIMINARY FOR PRICING	S.N.	18/09/2024

Professional Person: M. NHR, P.Tech.Eng. ECSA Registration No. 2009/0211
CLIENT: IMPLEMENTING AGENTS



PROJECT MANAGERS:
LDM
Solutions for the Built Environment

ARCHITECTS:
SAKHISIZWE ARCHITECTS

PROJECT: 19/19/1/59 TB (22)
PROPOSED MSINSINI
POLICE STATION IN KZN

DETAILS: ADMINISTRATION BUILDING :
LOWER GROUND LEVEL
SURFACE BED LAYOUT & DETAILS

DISCIPLINE: STRUCTURAL ENGINEERING

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APPROVED: M.N.	PL	DATE: 18/09/2024