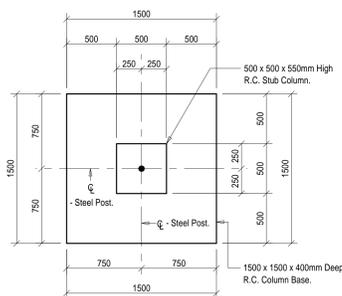


TYPICAL GENERAL ARRANGEMENT :  
PART PARKING FOUNDATIONS

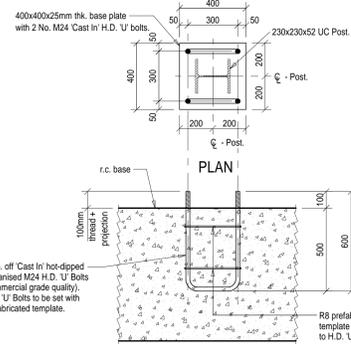
TO BE READ IN CONJUNCTION  
WITH THE ARCHITECT LAYOUTS

**Foundation Notes :**

- As noted in the Geotechnical Report, soft excavation is anticipated, up to depths of 1.5m to 2.0m.
- Structures with higher bearing pressures should be placed onto 'dense' to 'very dense' material at average depth of 1.5m below existing ground levels.
- 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 G3 quality material compacted in layers not exceeding 300mm thick to 92% MOD AASHTO Density.
- As noted in the Geotechnical Report, a maximum allowable bearing capacity of 150kN/m<sup>2</sup> to 250kN/m<sup>2</sup> has been considered applicable.
- 50mm thick blinding layer to all foundation excavations.
- A 'thicker' blinding layer (min. 50mm to max. 150mm) will be required to level the base of the foundation trenches prior to rebar installation.
- All foundation excavations are to be inspected and approved by the Structural Engineer prior to installing the reinforcement for the foundations.



R.C. BASE DETAIL



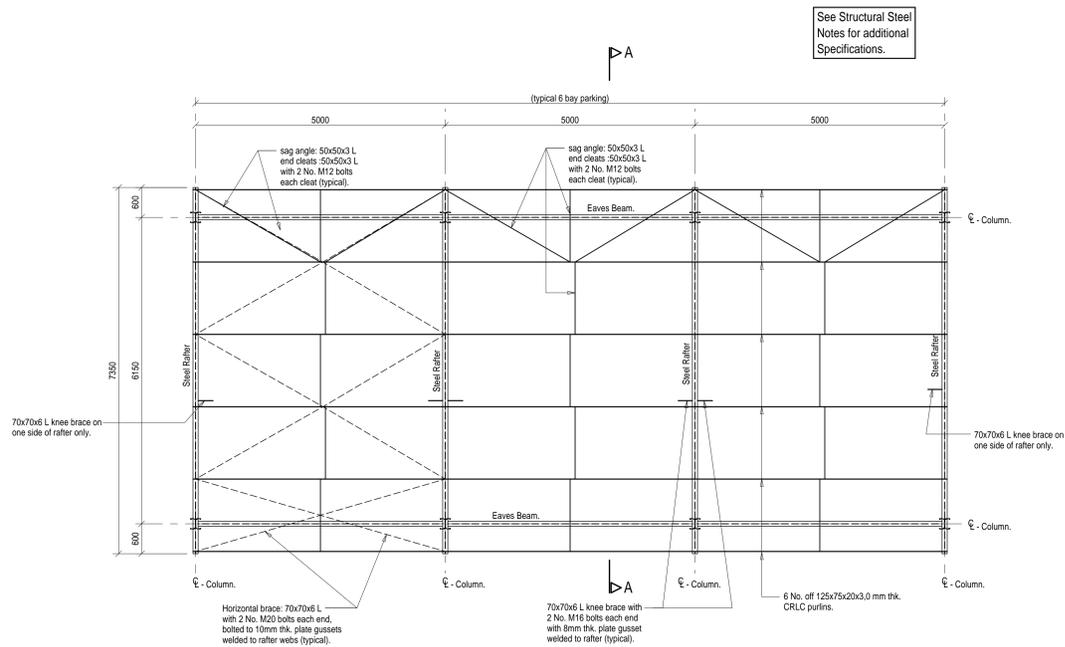
ELEVATION  
HOLDING DOWN BOLT  
DETAIL

**GENERAL NOTES :**

- All levels and dimensions to be checked on site.
- This drawing is to be read in conjunction with the Architectural drawings.
- All concrete work is to comply with SABS 1200G.
- 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
- 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
- All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
- All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
- 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.
- The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
- All structural concrete is to be cured for a minimum of five days.
- All brickwork shown 'hatched' are load bearing. All load bearing brickwork is to be 14MPa MF3 bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply malthoid placed on a smooth rendered surface.
- All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
- All concrete plaster and brickwork plaster interfaces to receive 'V'-joints.
- The Engineer requires 24 hours notice for all inspections.

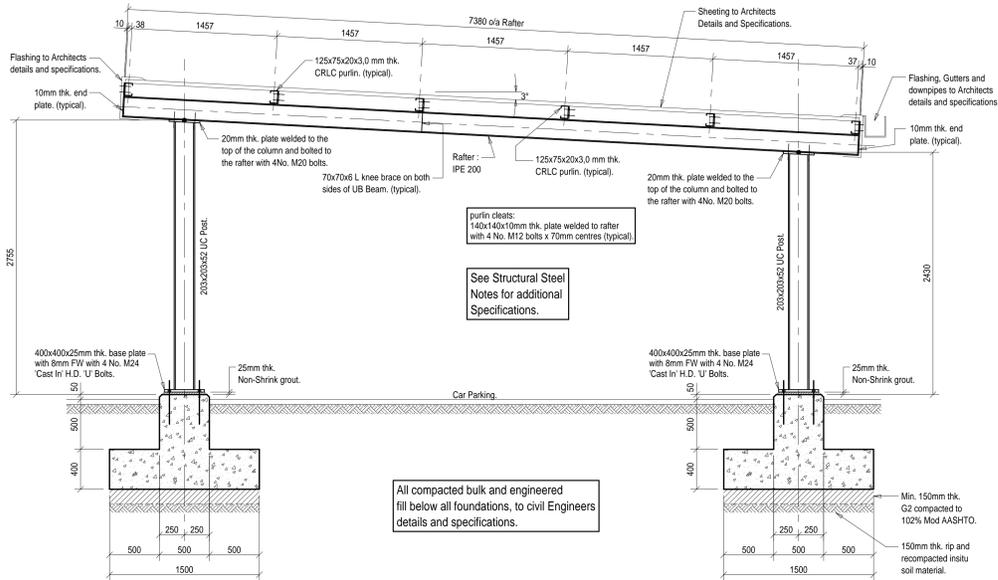
**Structural Steel Notes :**

- All work to be in accordance with SANS 1200H.
- All welds to be min. 6mm continuous fillet welds (unless otherwise noted).
- All structural steelwork to be Grade S355JR (unless otherwise noted).
- All bolts to be Grade 8.8 bolts and to be hot dipped galvanized to SANS 121:2011 (ISO 1461:2009 (E)).
- All structural steelwork, bolts, nuts and washers to be hot dipped galvanized to SANS 121:2011 (ISO 1461:2009 (E)). Galvanizing Certificate for all steel work is to be submitted to the Engineer on completion.
- If the galvanizing is damaged or scratched during the installation process, it must be 'touched up' with 'Plason Plasto-zinc Poly Galv Primer' or equally approved.
- 2 sets of fabrication shop drawings (hard copies) are to be delivered to the Engineer's offices for review and approval before commencing with any fabrication.
- Certificates confirming the grade stress of all steel work, purins and bolts specified is to be submitted to the Engineer on completion.
- The Structural Steelwork Contractor is to verify all setting out dimensions on site prior to fabrication.



TYPICAL GENERAL ARRANGEMENT :  
PART PARKING CANOPIES

TO BE READ IN CONJUNCTION  
WITH THE ARCHITECT LAYOUTS



SECTION A - A

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

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

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.	BY	DATE
T1	FOR TENDER	S.N. 11/04/2025
P1	PRELIMINARY FOR PRICING	S.N. 26/11/2024

Professional Person: M. NAR. P.T.Eng. ECSA Registration No.: 200919211

CLIENT : IMPLEMENTING AGENTS :



PROJECT MANAGERS :

ARCHITECTS :

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

DETAILS :  
EXTERNAL WORK : CARPORT  
FOUNDATIONS AND STEEL FRAME  
LAYOUT AND DETAILS

DISCIPLINE : STRUCTURAL ENGINEERING

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DESIGNED :	S.N.	COPYRIGHT RESERVED	SCALES :
DRAWN :	S.N.		1:50 1:25 1:15
APPROVED :	M.N.	PL	DATE : 26/11/2024

DRAWING No. 589 / 125 REV. T1

FOR TENDER