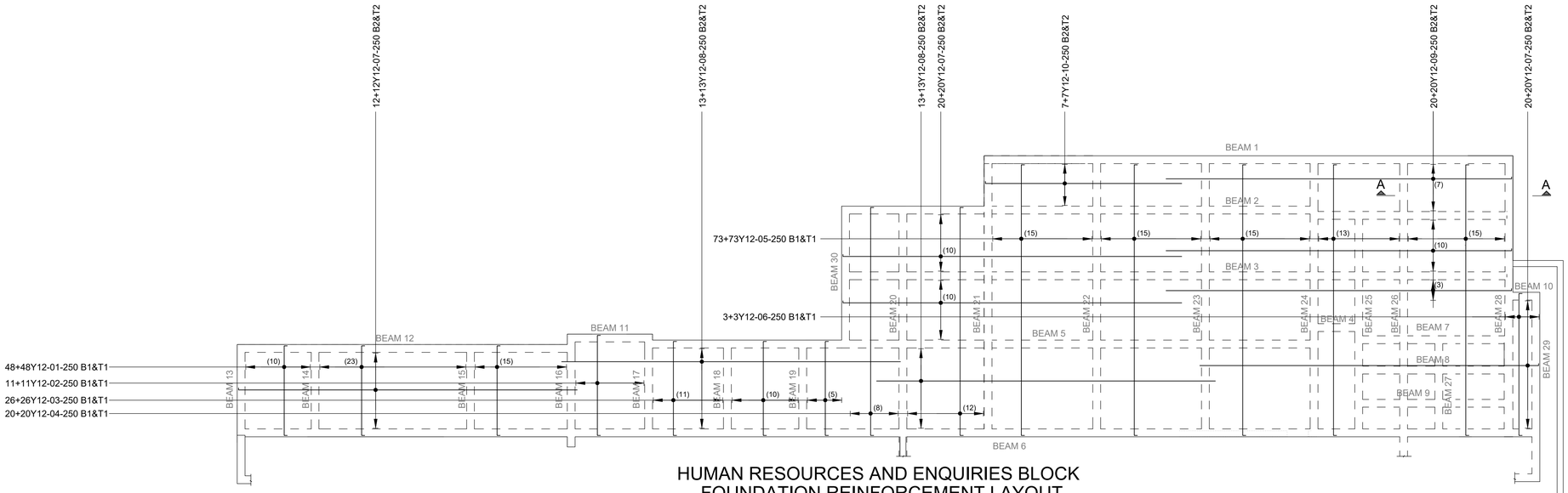
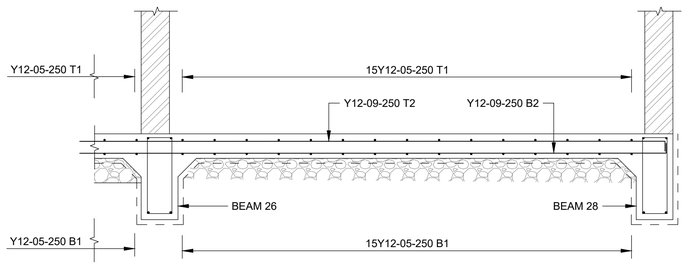


HUMAN RESOURCES AND ENQUIRIES BLOCK
FOUNDATION REINFORCEMENT LAYOUT

SCALE 1:100

MEMBER	No. Off	REINFORCEMENT Type & Dia	Mark	No in Each	Total No.	Length mm	Shape Code	BENDING DIMENSIONS A mm	B mm	C mm	D mm	E/R mm
200mm THICK RC FLOOR SLAB	1	Y12	01	96	96	3660	38	140	3440	140		
		Y12	02	22	22	4060	38	140	3840	140		
		Y12	03	52	52	3830	38	140	3610	140		
		Y12	04	40	40	8970	38	140	8750	140		
		Y12	05	146	146	10610	38	140	10390	140		
		Y12	06	6	6	5670	38	140	5445	140		
		Y12	07	104	104	13100	37	130	13000			
		Y12	08	52	52	13000	20	13000				
		Y12	09	40	40	13360	37	130	13260			
		Y12	10	14	14	7640	37	130	7535			
		Y10	ST1	435	435	820	83	250	85	250	250	
BEAM 1 (700Dx 300W)	1	Y12	11	4	4	10520	37	150	10400			
		Y16	12	4	4	10660	37	200	10500			
		R10	SA1	81	81	1730	60	600	200			
BEAMS 2 & 3 (700Dx 300W)	2	Y12	13	4	8	13250	37	150	13130			
		Y16	14	4	8	13390	37	200	13230			
		R10	SA1	103	206	1730	60	600	200			
BEAM 4 (700Dx 300W)	1	Y12	14	2	2	2160	38	150	1915	150		
		Y16	15	2	2	2240	38	200	1915	200		
		R10	SA1	7	7	1730	60	600	200			
BEAM 5 (700Dx 300W)	1	Y12	16	4	4	13290	37	150	13170			
		Y16	17	4	4	13430	37	200	13270			
		R10	SA1	103	103	1730	60	600	200			
BEAM 6 (700Dx 300W)	1	Y12	18	4	4	13120	37	150	13000			
		Y12	19	4	4	13000	20	13000				
		Y16	20	4	4	13160	37	200	13000			
		Y16	21	4	4	13000	20	13000				
		R10	SA1	199	199	1730	60	600	200			
BEAMS 7, 8 & 9 (700Dx 300W)	3	Y12	22	2	6	6200	38	150	5960	150		
		Y16	23	2	6	6280	38	200	5960	200		
		R10	SA1	23	69	1730	60	600	200			
BEAM 10 (700Dx 300W)	1	Y12	24	2	2	1470	38	150	1230	150		
		Y16	25	2	2	1550	38	200	1230	200		
		R10	SA1	4	4	1730	60	600	200			
BEAM 11 (700Dx 300W)	1	Y12	26	2	2	3420	38	150	3175	150		
		Y16	27	2	2	3500	38	200	3175	200		
		R10	SA1	12	12	1730	60	600	200			

MEMBER	No. Off	REINFORCEMENT Type & Dia	Mark	No in Each	Total No.	Length mm	Shape Code	BENDING DIMENSIONS A mm	B mm	C mm	D mm	E/R mm
BEAM 12 (700Dx 300W)	1	Y12	28	2	2	13100	38	150	12860	150		
		Y16	29	2	2	13180	38	200	12860	200		
		R10	SA1	51	51	1730	60	600	200			
BEAMS 13, 14, 15, 18 & 19 (700Dx 300W)	5	Y12	30	2	10	3680	38	150	3440	150		
		Y16	31	2	10	3760	38	200	3440	200		
		R10	SA1	13	65	1730	60	600	200			
BEAM 16 (700Dx 300W)	1	Y12	32	2	2	4470	38	150	4230	150		
		Y16	33	2	2	4550	38	200	4230	200		
		R10	SA1	16	16	1730	60	600	200			
BEAM 17 (700Dx 300W)	1	Y12	34	2	2	4080	38	150	3840	150		
		Y16	35	2	2	4160	38	200	3840	200		
		R10	SA1	15	15	1730	60	600	200			
BEAM 20 (700Dx 300W)	1	Y12	36	2	2	9000	38	150	8755	150		
		Y16	37	2	2	9080	38	200	8755	200		
		R10	SA1	35	35	1730	60	600	200			
BEAMS 21, 22, 23, 24, 26 & 28 (700Dx 300W)	6	Y12	38	2	12	10930	38	150	10690	150		
		Y16	39	2	12	11010	38	200	10690	200		
		R10	SA1	42	252	1730	60	600	200			
BEAM 25 (700Dx 300W)	1	Y12	40	2	2	8790	38	150	8550	150		
		Y16	41	2	2	8870	38	200	8550	200		
		R10	SA1	34	34	1730	60	600	200			
BEAM 29 (700Dx 300W)	1	Y12	42	2	2	7410	38	150	7170	150		
		Y16	43	2	2	7490	38	200	7170	200		
		R10	SA1	28	28	1730	60	600	200			
BEAM 30 (700Dx 300W)	1	Y12	44	2	2	5590	38	150	5345	150		
		Y16	45	2	2	5670	38	200	5345	200		
		R10	SA1	21	21	1730	60	600	200			
BEAM 27 (700Dx 300W)	1	Y12	46	2	2	4020	38	150	3775	150		
		Y16	47	2	2	4100	38	200	3775	200		
		R10	SA1	21	21	1730	60	600	200			



SECTION A-A

SCALE 1:25

ISSUED FOR TENDER

GENERAL NOTES

1. All work to be in accordance with the NATIONAL BUILDING REGULATIONS and STANDARDS ACT No. 103 of 1977
2. All drawings to be read in conjuction with the Architect's relevant drawings.
3. All dimensions to be checked on site and any discrepancies to be reported before construction commences.
4. No concrete to be poured without the Engineer's consent.
5. No structural alterations to be made without amended drawings
6. TD = To detail, INV = Inverted, TAD = To arch. detail
7. Sleeves and ducts must be provided for all pipes and services.

NOTES ON FOUNDATION CONSTRUCTION

1. Foundations are subject to alterations as excavations proceed.
2. No foundations are to be cast until excavations have been approved.
3. A 50mm thick blinding layer of 1:3:6 conc. to be cast in all foundations excavated. This 50mm thick layer is not included in the thickness of foundations shown on drawing.

NOTES ON R.C. CONSTRUCTION

1. The Contractor is to maintain the reinforcing steel in the correct position.
2. Minimum cover to steel reinforcing: Beams: 30mm Columns: 40mm Slabs: 30mm Foundations: 50mm
3. Concrete or Tile spacer blocks to be used to maintain adequate cover.
4. The contractor is to arrange for cube crushing tests to be as and when requested by the engineer.
5. Breaks in concrete are only to be made where approved by the engineer.
6. Beam depth given first and includes slab thickness.
7. Concrete works cube strength is at 28 days to be as follows: Foundations, Beams & Slabs, Pile Caps, Columns: 30 MPa. unless stated otherwise on the R.C. drawing.
8. All concrete to be machine mixed, vibrated and damp cured.
9. Reinforcement is listed elsewhere on bending schedules.
10. All reinforcement must be inspected by the engineer prior to pouring concrete.

DRAWING REFERENCE

TITLE

NOTES

NO.	AMENDMENT	APPROVED	DATE
A	BAR MARKS UPDATED, BEAM NUMBERS AND BENDING SCHEDULE ADDED	M.S.M	07/2024

REVISIONS

CLIENT

SOUTH AFRICAN POLICE SERVICE

Thekwini Geocivils cc T/A
TGC Engineers
Geotechnical & Civil Engineers
Waste Disposal Consultants ● Project Managers

Suite 6
4 The Crescent
Westway Office Park
Westville
3611
Telephone 265-1777

P.O. Box 446
PAVILION
3611
Telefax 265-2727
E-mail: tgc@tgcengineers.co.za

PROJECT

NEW SAPS
IKAGENG POLICE STATION: NORTH WEST

TITLE **HUMAN RESOURCES AND ENQUIRIES BLOCK FOUNDATION REINFORCEMENT LAYOUT AND DETAILS**

CONSULTING ENGINEER	DESIGNED : M.S.M	
SIGNATURE:.....	DRAWN : R.M.Y	
PR. NO.:.....	CHECKED : M.S.M	
	SCALE : AS SHOWN	
DATE:.....	DATE : MAY 2024	
	ORIGINAL SIZE: A1	
REFERENCE NO. **51660**	FIGURE NO. **137**	REVISION **A**

CAD FILE: S:/.....