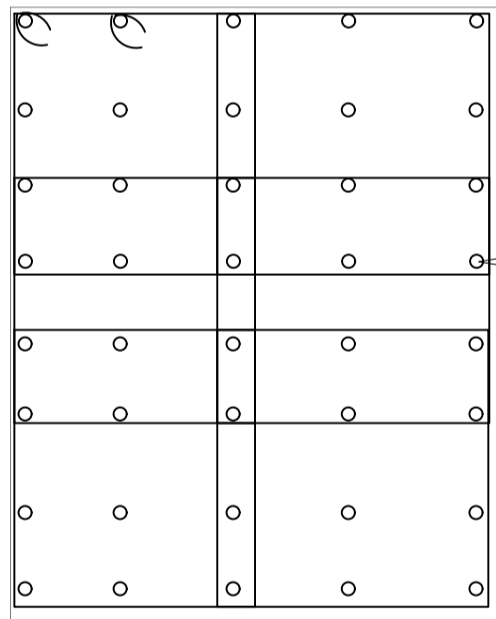


REDUCER THRUST BLOCK B:PLAN  
SCALE 25

THRUST BLOCK THICKNESS = 2000mm  
CONCRETE CLASS = 30Mpa  
75mm COVER REINFORCEMENT



36Y32-A-200

PLAN  
(500mm Ø PIPE)  
REINFORCEMENT FOR TRUST BLOCK

MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM-BER	MARK	S	B E N D I N G				
								A	B	C	D	E/r
THRUST BLOCK	1	36	Y32	2200	36	A	34	1950				
LINKS		9	R10	7900	9	B	60	1440	2440			
		36	R10	3650	36	C	60	1440	320			
		144	R10	5450	144	D	60	210	2440			
	8	10	12	16	20	25	32	40	TOT	Date		
R		609								609 Det by		
Y						500		500		Ref Dwg		
TOT		609				500		1109		Job No		

Engineer:  
**KEON**  
CONSULTING ENGINEERS  
**TECHNO**  
DESIGNS  
Civil Structural & Transport Engineers

34 Dane Street Glen Austin  
Midrand  
TELEPHONE (011) 045 2532  
CELL (072) 301 8811  
EMAIL: engineer@technodesigns.co.za  
OFFICES: JOHANNESBURG  
WEBSITE: www.technodesigns.co.za

KEON CONSULTING ENGINEERS  
5th Avenue Office Park  
646 5th Avenue Newton  
Port Elizabeth  
TELEPHONE: +27 413630180  
WEBSITE: www.keon.co.za

Client:  
**Johannesburg Water**  
JOHANNESBURG WATER  
Turbine Hall,  
65 Nereus Place Street,  
Newtown, Johannesburg

THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES (BOQ). IN THOSE CASES WHERE THE BOQ SPECIFICATIONS DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PRECEDENCE ON ORIGINAL

Engineer:  
T.Chikwata Pr Eng (20140009)  
Drawn By:  
M. Mulumba  
Designed By:  
T. Mapfumo  
Checked By:  
T. Chikwata  
Signature:  
Date:  
Sept 2023

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:  
1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.  
1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.  
1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.  
1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.  
1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.  
1.6 STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S. SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.N.S. 1200G AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S. 1200D.  
1.8 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, RWOPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.  
2.0 FOUNDATIONS  
2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.  
2.2 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 19mm BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.  
2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.  
2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.  
2.5 ALLOWABLE BEARING PRESSURE UNDER:  
CONCRETE BASES = 150kPa  
STRIP FOOTINGS = 100kPa  
CONCRETE  
3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:  
BASES: 25MPa / 19mm  
STRIP FOOTINGS: 25MPa / 19mm  
SURFACE BEDS: 30MPa / 19mm  
COLUMNS: 30MPa / 19mm  
SUSPENDED SLABS & BEAMS: 30MPa / 19mm  
3.2 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.  
3.3 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.

3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S. 1200G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.  
3.5 CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.  
4.0 REINFORCEMENT  
4.1 CHARACTERISTIC STRENGTH: 450N/mm<sup>2</sup>  
4.2 HIGH YIELD STEEL: 250N/mm<sup>2</sup>  
4.3 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.  
4.4 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.  
4.5 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.  
4.6 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.  
4.7 COVER TO REINFORCEMENT:  
STRIP FOOTINGS: 50mm  
BASES: 50mm  
COLUMNS AND WALLS: 50mm  
SUSPENDED SLABS: 30mm

4.7 SUSPENDED BEAMS: 30mm  
CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.  
5.0 FERNWORK AND PROPPING  
5.1 STRIPPING TIMES FOR:  
COLUMN AND WALL SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.  
4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.  
FLAT SLABS:  
5.2 PROPPING TIMES FOR:  
SLABS AND BEAMS: 21 DAYS  
14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER  
CANTILEVER SLABS AND BEAMS: 21 DAYS  
(SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMEOUSLY TO ENGINEER FOR APPROVAL)  
NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.  
5.3 CONCRETE FINISHES: UNLESS NOTED OTHERWISE  
COLUMNS AND WALLS: OFF SHUTTER  
BEAMS AND SLAB SOFFIT: OFF SHUTTER  
TOP OF SUSPENDED SLABS: STEEL FLOAT  
SURFACE BEDS: POWER FLOAT  
5.4 SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:

Key Plan:

No	Date	Details	Chd	Appd
		Revisions		

Project:  
JW14406-LINBRO PARK TOWER  
(WITH ASSOCIATED WORKS)

Description:  
THRUST BLOCK B CONCRETE  
LAYOUT&REBAR

Issued For: TENDER

Size	Scale	Sheet No	Original Date
A1	As Shown	1 OF 2	Sept 2023

Project No:	Drawing No:	Revision:
C01486	CP-27	T0