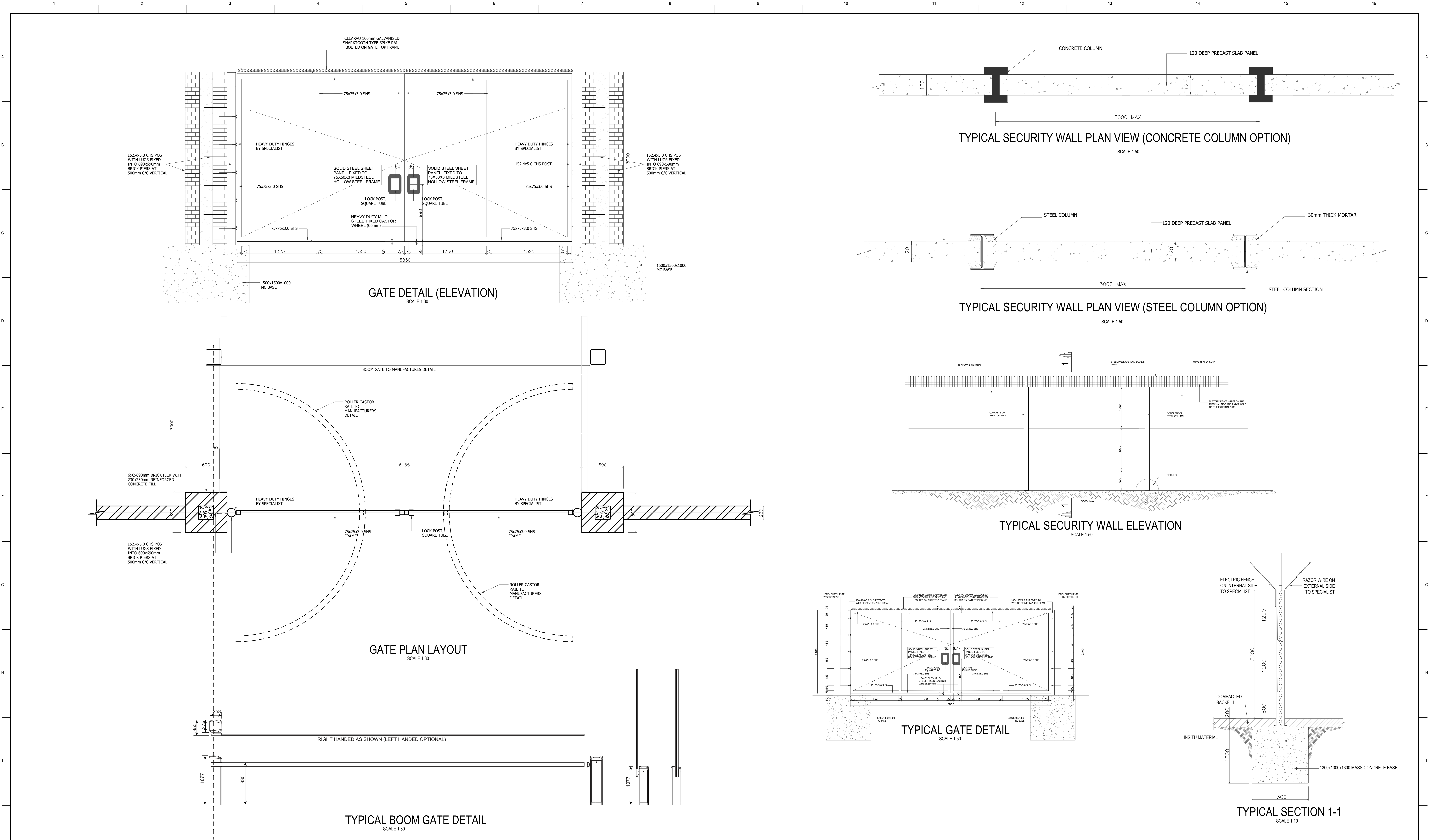




BOUNDARY WALL LAYOUT PLAN

SCALE 1:500

[illegible]



Engineer:

KEON
CONSULTING ENGINEERS

TECHNO
DESIGNS

Civil Structural & Transport Engineers

TECHNO DESIGNS ENGINEERING
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WEBSITE: www.keon.co.za

Client:

Johannesburg Water

Johannesburg Water
Turbine Hall,
65 Meme Pilo Street,
Newtown, Johannesburg

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

Engineer:
T. Chikwata Pr Eng (20140009)

Drawn By: B. Manyawu
Designed By: T. Chikwata
Checked By: T. Chikwata

Signature: [Signature]
Date: June 2025

Signature: [Signature]
Date: June 2025

Signature: [Signature]
Date: June 2025

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:
1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECTS' 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 WHERE CLARITY IS SOUGHT.
1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECTS' DRAWINGS.
1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECTS' 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 / 10mm 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 / 10mm 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.
2.6 CONCRETE CHARACTERISTIC 28 DAY STRENGTH: BASES: 25MPa / 19mm STRIP FOOTINGS: 25MPa / 19mm SURFACE BEDS: 30MPa / 19mm SUSPENDED SLABS & BEAMS: 30MPa / 19mm COLUMNS: 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.

4.0 REINFORCEMENT CHARACTERISTIC STRENGTH:
4.1 MILD STEEL: 250N/mm²
4.2 HIGH YIELD STEEL: 450N/mm²
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:
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 FORMWORK AND PROPPING
5.1 STRIPPING TIMES FOR:
COLUMN AND WALL SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.
5.2 PROPPING TIMES FOR:
SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.
5.3 CANTILEVER SLABS AND BEAMS: 21 DAYS (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMEOUSLY TO ENGINEER FOR APPROVAL).
5.4 NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.
CONCRETE FINISHES: UNLESS NOTED OTHERWISE
COLUMNS AND WALLS: OFF SHUTTER
BEAMS AND SLAB SOFFIT: OFF SHUTTER
SURFACE BEDS: POWER FLOAT
SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:

Key Plan:

No	Date	Details	Chd	Appd
		Revisions		

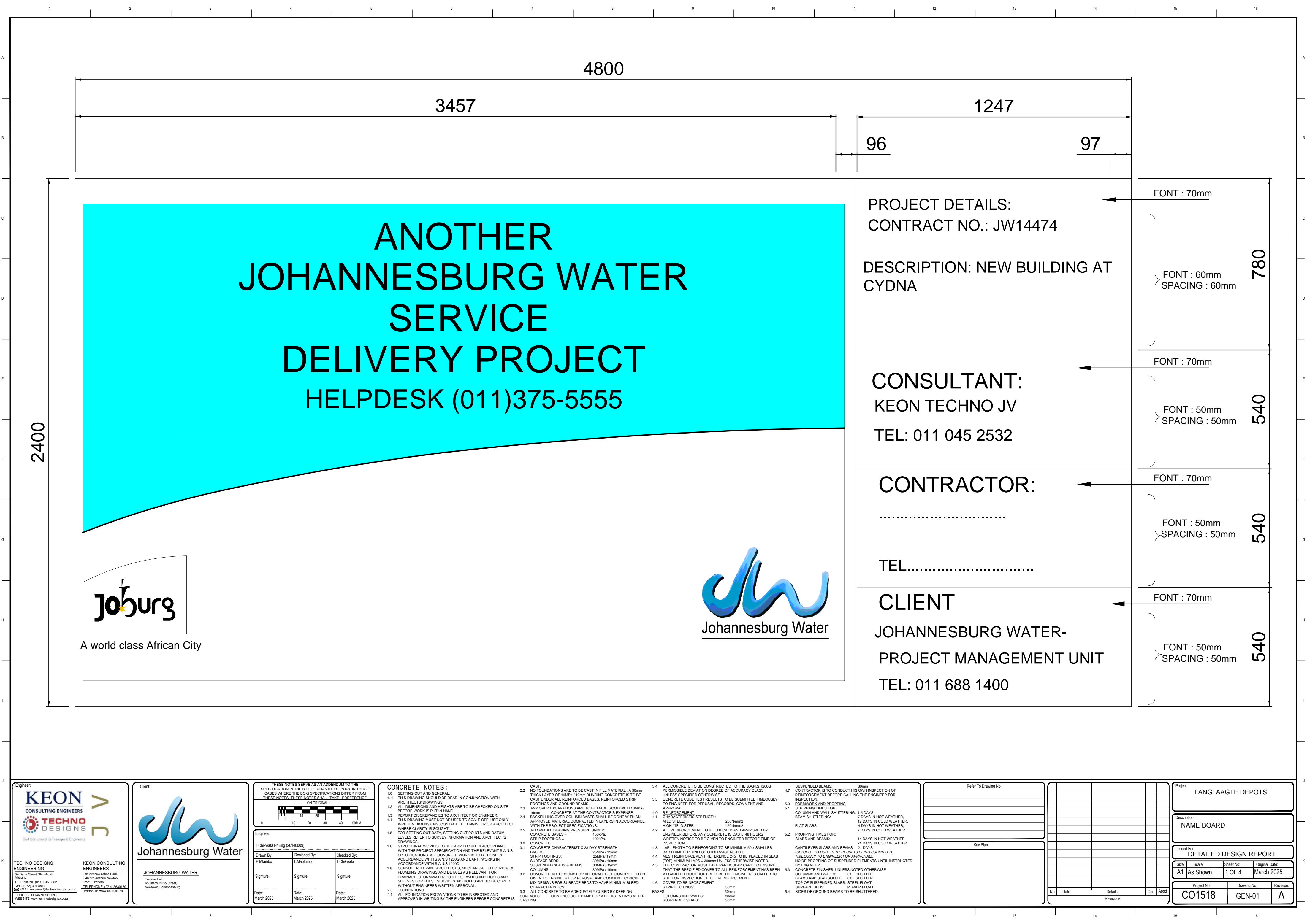
Project: LANGLAAGTE DEPOT (WITH ASSOCIATED WORKS)

Description: GATE AND BOUNDARY WALL DETAILS

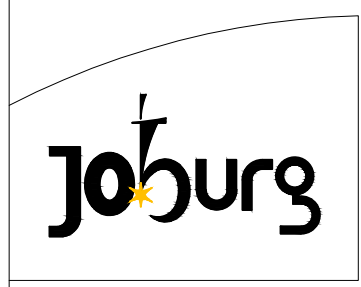
Issued For: TENDER

Size	Scale	Sheet No:	Original Date:
A1	As Shown	2 OF 2	July 2025

Project No:	Drawing No:	Revision:
C01518	PS-02	0B



ANOTHER JOHANNESBURG WATER SERVICE DELIVERY PROJECT HELPDESK (011)375-5555



A world class African City



PROJECT DETAILS:
CONTRACT NO.: JW14474

DESCRIPTION: NEW BUILDING AT
CYDNA

CONSULTANT:
KEON TECHNO JV
TEL: 011 045 2532

CONTRACTOR:
.....

TEL.....

CLIENT
JOHANNESBURG WATER-
PROJECT MANAGEMENT UNIT
TEL: 011 688 1400

FONT : 70mm

FONT : 60mm
SPACING : 60mm

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FONT : 50mm
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Engineer:

KEON
CONSULTING ENGINEERS

TECHNO
DESIGNS

Civil Structural & Transport Engineers

34 Dene Street Glen Austin
Midrand
TELEPHONE (011) 045 2532
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Port Elizabeth
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WEBSITE: www.keon.co.za

Client:

Johannesburg Water

JOHANNESBURG WATER
Turbine Hall,
65 Menn Pilsa Street,
Newtown, Johannesburg

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

Engineer:
T.Chikwata Pr Eng (20140009)

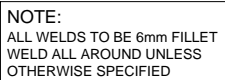
Drawn By: P.Mlambo	Designed By: T.Mafumo	Checked By: T.Chikwata
Signature: Date: March 2025	Signature: Date: March 2025	Signature: Date: March 2025


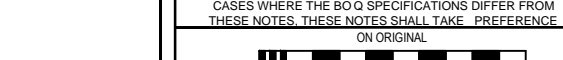

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:
1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECTS' DRAWINGS.
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1.8 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, ROADS 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
3.0 CONCRETE
3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
BASES: 25MPa / 19mm
STRIP FOOTINGS: 25MPa / 19mm
SURFACE BEDS: 30MPa / 19mm
SUSPENDED SLABS & BEAMS: 30MPa / 19mm
3.2 COLLUMS:
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 COVER TO REINFORCEMENT.
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/mm²
4.2 MILD STEEL: 250N/mm²
4.3 HIGH YIELD STEEL: 450N/mm²
4.4 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.
4.5 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.
4.6 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.
4.7 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.
4.8 COVER TO REINFORCEMENT:
STRIP FOOTINGS: 50mm
BASES: 50mm
COLUMNS AND WALLS: 50mm
SUSPENDED SLABS: 30mm
5.0 FORMWORK AND PROPPING
5.1 STRIPPING TIMES FOR:
COLUMN AND WALL SHUTTERING: 15 DAYS
12 DAYS IN HOT WEATHER.
4 DAYS IN HOT WEATHER.
7 DAYS IN COLD WEATHER.
5.2 PROPPING TIMES FOR:
SLABS AND BEAMS: 14 DAYS IN HOT WEATHER
21 DAYS IN COLD WEATHER
5.3 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.
5.4 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
SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:		Project: LANGLAAGTE DEPOTS	
Key Plan:		Description: NAME BOARD	
Issued For: DETAILED DESIGN REPORT		Size: A1 As Shown	
Scale: 1 OF 4		Sheet No: 1 OF 4	
Original Date: March 2025		Project No: C01518	
Drawing No: GEN-01		Revision: A	

No	Date	Details	Chd	Appd
Revisions				



 <p>KEON CONSULTING ENGINEERS TECHNO DESIGNS Civil Structural & Transport Engineers</p>	<p>Client:</p>  <p>Johannesburg Water</p>	<p>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.</p> 	<p>CONCRETE NOTES:</p> <p>1.0 SETTING OUT AND GENERAL</p> <p>1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECTS' DRAWINGS.</p> <p>1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.</p> <p>1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.</p> <p>1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.</p> <p>1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECTS' DRAWINGS.</p> <p>1.6 CONCRETE 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 12000 AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 12000.</p> <p>1.7 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER UTILITIES, RWPODS AND HOLES AND GLEEVES FOR THESE SERVICES. ALL HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.</p> <p>2.0 FOUNDATIONS</p> <p>2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.</p> <p>2.2 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa/19mm BUNDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.</p> <p>2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa/19mm CONCRETE AT THE CONTRACTORS EXPENSE.</p> <p>2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.</p> <p>2.5 ALLOWABLE BEARING CAPACITY UNDER: CONCRETE BASES = 150kPa/100kPa.</p> <p>3.0 CONCRETE</p> <p>3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH: BASES: 25MPa/19mm STRIP FOOTINGS: 25MPa/19mm TOP MINIMUM LAYERS: 30mm/19mm SUSPENDED SLABS & BEAMS: 30MPa/19mm COLUMNS: 30MPa/19mm</p> <p>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.</p> <p>3.3 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.</p> <p>3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 12000 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.</p> <p>3.5 CONCRETE CURE TEST RESULTS TO BE SUBMITTED TIMELY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.</p> <p>4.0 REINFORCEMENT</p> <p>4.1 CHARACTERISTIC STRENGTH: MILD STEEL: 250N/mm2 HIGH YIELD STEEL: 450N/mm2</p> <p>4.2 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.</p> <p>4.3 LAP LENGTH TO REINFORCING TO BE MINIMUM 50x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.</p> <p>4.4 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB SURFACE BEDS.</p> <p>4.5 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED.</p> <p>4.6 COVER TO REINFORCEMENT: STRIP FOOTINGS: 50mm/30mm/30mm COLUMNS AND WALLS: 50mm/30mm/30mm SUSPENDED SLABS: 50mm/30mm/30mm</p> <p>4.7 SUSPENDED BEAMS: 30mm</p> <p>4.8 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.</p> <p>5.0 FORMWORK AND PROPPING</p> <p>5.1 STRIPPING TIMES FOR: COLUMN AND WALL SHUTTERING: 1.5 DAYS BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER. 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.</p> <p>5.2 PROPPING TIMES FOR: SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER</p> <p>5.3 CANTILEVER SLABS AND BEAMS: (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL).</p> <p>5.4 NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.</p> <p>5.5 CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS: AS REQUIRED FOR CONCRETE SHUTTERING BEAMS AND SLAB SOFFIT: OFF SHOOT TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE BEDS: POWER FLOAT</p> <p>5.6 SIDES OF GROUND BEAMS TO BE SHUTTERED.</p>	<p>Refer To Drawing No:</p> <p>Project: LANGLAAGTE DEPOTS</p> <p>Description: NOTICE BOARD FRAME DETAILS</p> <p>Issued For: DETAILED DESIGN REPORT</p> <p>Size: A1 Scale: As Shown Sheet No: 2 Of 4 Original Date: March 2025</p> <p>Project No: CO1518 Drawing No: GEN-01 Revision: A</p>
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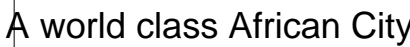
3457

1247

96

97

ANOTHER
JOHANNESBURG WATER
SERVICE
DELIVERY PROJECT
HELPDESK (011)375-5555



PROJECT DETAILS:
CONTRACT NO.: JW14474

DESCRIPTION: NEW BUILDING AT
CYDNA

FONT : 70mm

FONT : 60mm
SPACING : 60mm

780

CONSULTANT:
KEON TECHNO JV
TEL: 011 045 2532

FONT : 70mm

FONT : 50mm
SPACING : 50mm

540

CONTRACTOR:

FONT : 70mm

FONT : 50mm
SPACING : 50mm

540

TEL.....

CLIENT
JOHANNESBURG WATER-
PROJECT MANAGEMENT UNIT
TEL: 011 688 1400

FONT : 70mm

FONT : 50mm
SPACING : 50mm

540

Engineer:



KEON
CONSULTING ENGINEERS



TECHNO
DESIGNS

Dual Structural & Transport Engineers



KEON CONSULTING ENGINEERS

31 Court Street Glen Austin
Midland

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,
54b 5th Avenue Newton
Port Elizabeth

TELEPHONE +27 41363014

WEBSITE www.keon.co.za

Client:




The logo for Johannesburg Water features a stylized, flowing blue wave or ribbon shape above the text "Johannesburg Water" in a bold, black, sans-serif font.

JOHANNESBURG WATER

Turbine Hall,
65 Miami Plaza 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



0 5 10 15 20 25 30 35 40 50MM

Engineer:

T.Chikwata Pr Eng (20140009)

Drawn By: P.Milambo	Designed By: T.Mupfema	Checked By: T.Chikwata
Signature:	Signature:	Signature:
Date: March 2025	Date: March 2025	Date: March 2025

CONCRETE NOTES:

- 1.0 SETTING OUT AND GENERAL
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- 1.5 FOR EXISTING DATA, SETTING OUT POINTS AND DATUM LEVELS, REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS
- 1.6 THE WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION SPECIFICATION AND THE RELEVANT S.A.N.S PROJECTS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.N.S 1200 AS FORTHWITHING AND ACCORDANCE WITH S.A.N.S 1200D.
- 1.7 CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & CIVIL DRAWINGS AND DETAILS AS WELL AS RELEVANT PIPES FOR DRAINAGE, STORMWATER OUTFALLS, RWPS AND HOLES AND GLEVES FOR THESE SERVICES. ALL SERVICES ARE TO BE COORED WITH THE ENGINEER'S APPROVAL.
- 2.0 FOUNDATIONS
- 2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS

C/AST
NO FOUNDATIONS ARE TO BE CAST IN FIL MATERIAL. A 50mm THICK LAYER OF 10MPa **15mm BLINDING CONCRETE** IS TO BE CAST ON REMOVED FORMWORK. **REINFORCED CONCRETE** IS TO BE CAST ON FOUNDATIONS AND TO BE CAST IN STRIP FOOTINGS AND GROUND BEAMS.
NO OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa 15mm BLINDING CONCRETE. ALL EXCAVATIONS ARE TO BE BACKFILLED OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
ALLOWABLE BEARING PRESSURE UNDER:
CONCRETE BASES: 150kPa
STRIP FOOTINGS: 250kPa
CONCRETE
CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
BASES: 25MPa/15mm
STRIP FOOTINGS: 25MPa/15mm
SUSPENDED SLABS & BEAMS:
COLUMNS: 30MPa/15mm
CONCRETE MIX DESIGNS FOR ALL TYPES OF CONCRETE TO BE MIX DESIGNS FOR SURFACE FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR GROUND BEARS TO HAVE MINIMUM BLEEDING.
ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING FACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER

ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.S 12000
PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II
UNLESS SPECIFIED OTHERWISE.

ALL CONCRETE TEST RESULTS TO BE SUBMITTED TIMELY
TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND
APPROVAL.

REINFORCEMENT

CHARACTERISTIC STRENGTH:

MILD STEEL:	250N/mm ²
HIGH YIELD STEEL:	450N/mm ²

ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY
ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS
NOTICE TO REINFORCE TO BE GIVEN BEFORE TIME OF
INSPECTION.

MINIMUM COVER TO REINFORCING TO BE MINIMUM 50 SMALLER
BAR DIAMETER, UNLESS OTHERWISE NOTED.

MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB
AND WALLS UNLESS OTHERWISE NOTED.

THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE
THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN
MAINTAINED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE
FOR SITE INSPECTION OF THE REINFORCEMENT.

COVER TO REINFORCEMENT:

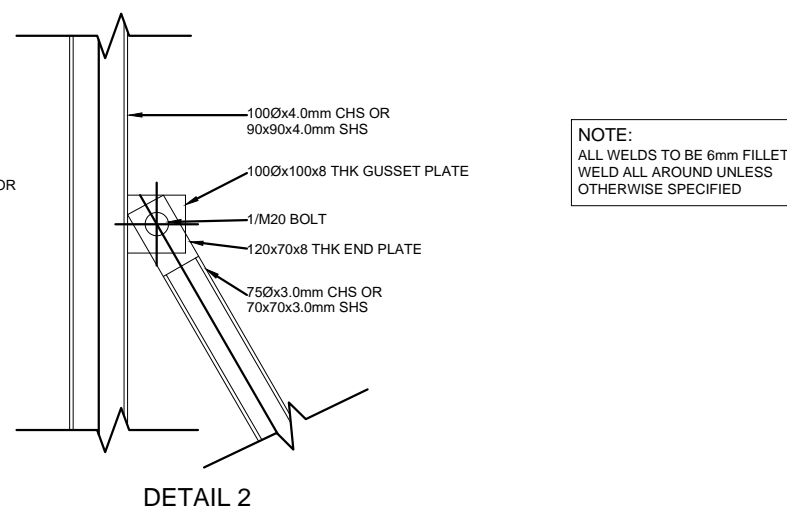
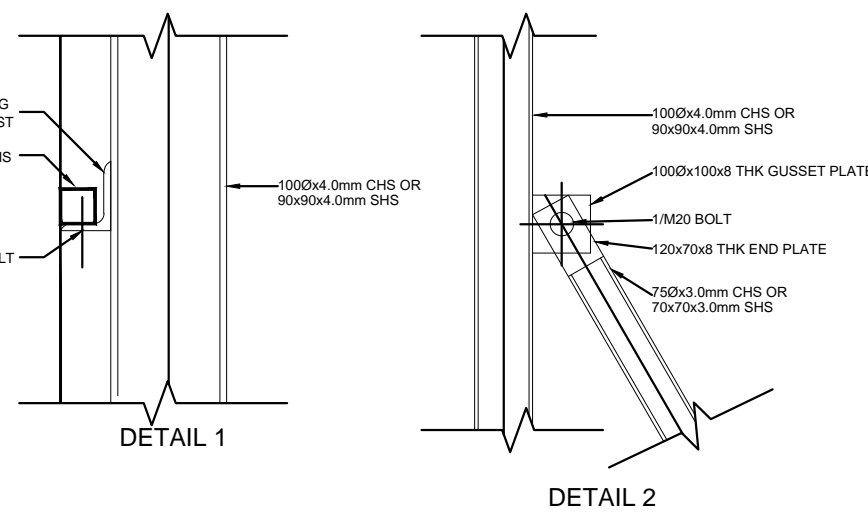
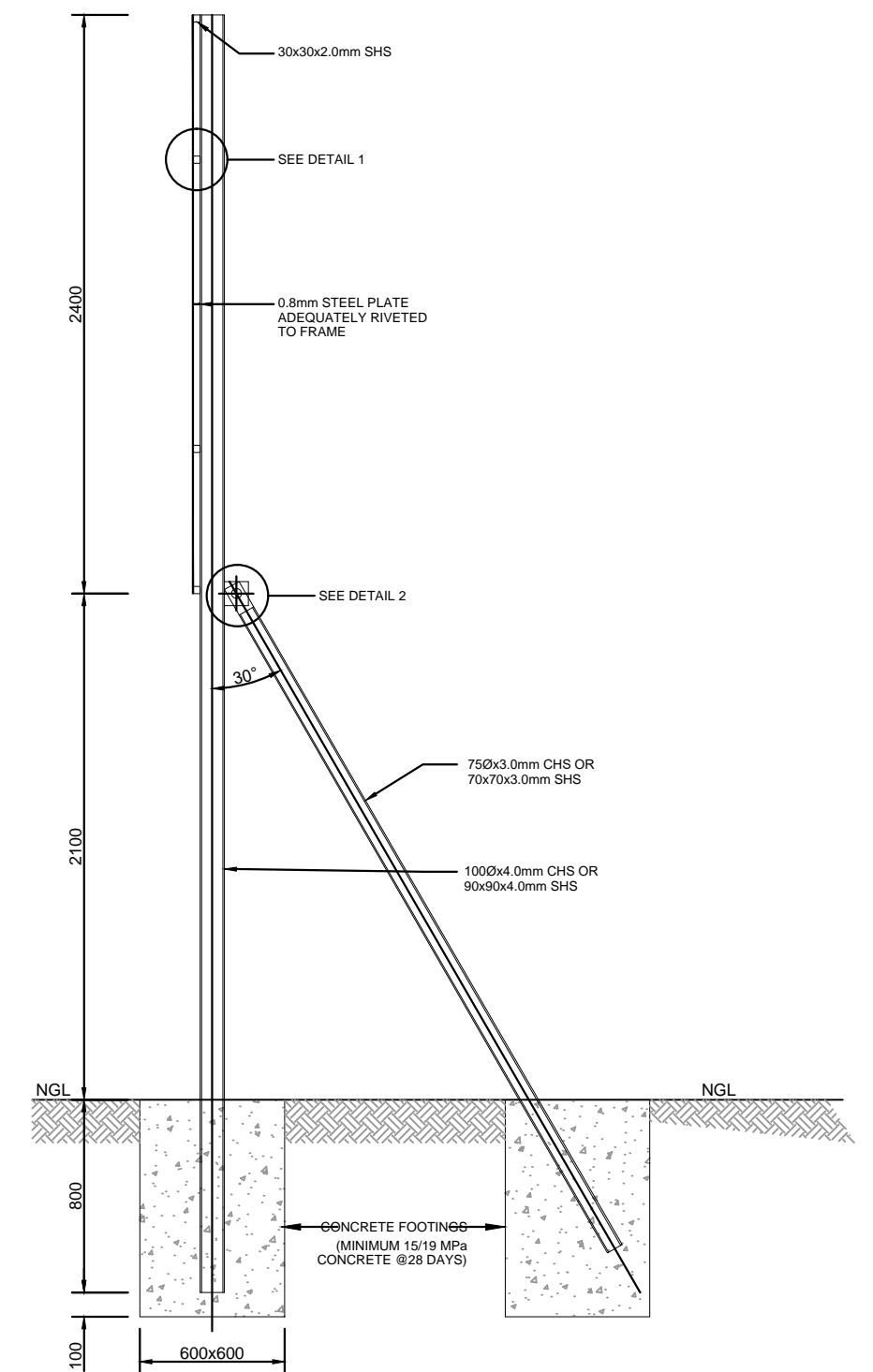
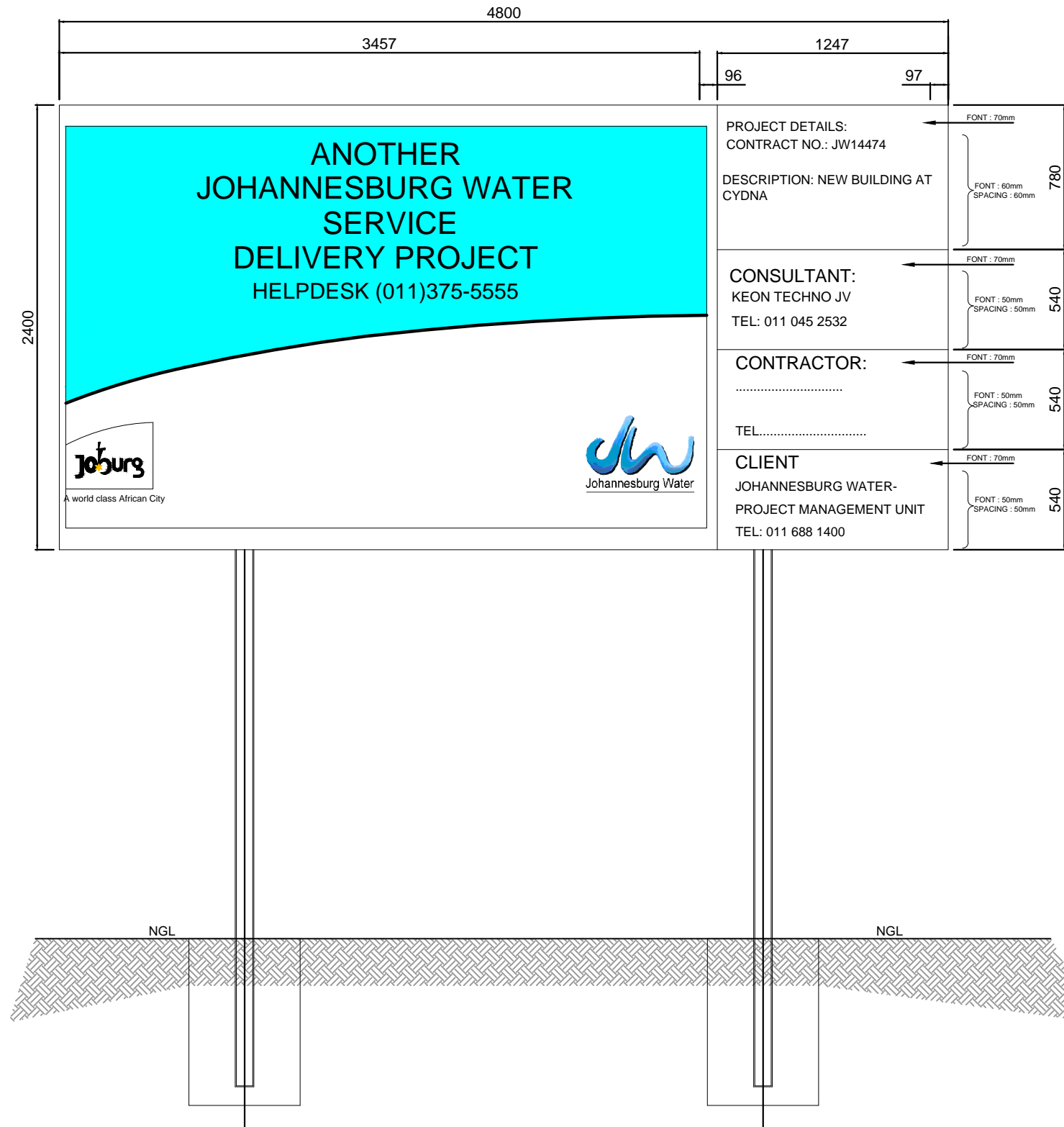
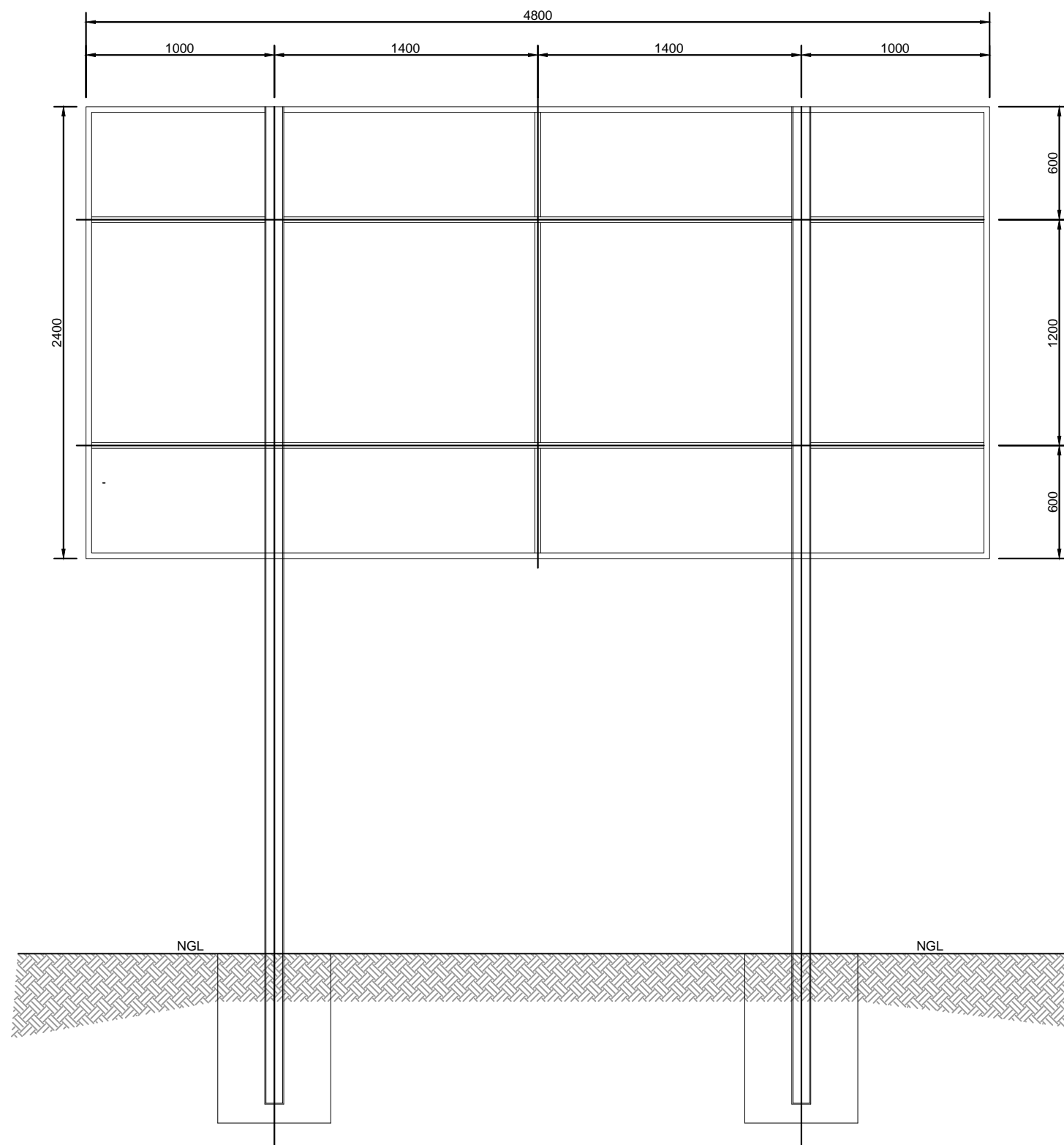
SLABS:	50mm
ROOFINGS:	50mm
COLUMNS AND WALLS:	30mm
UNDERMINES:	30mm

7	SUSPENDED BEAMS:	30mm
8	CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.	
9	INSPECT FORMWORK AND PROPPING	
10	STRIPPING TIMES FOR COLUMN AND WALL SHUTTERING:	15 DAYS
11	BEAM SHUTTERING:	7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER
12	SLAB SLABS:	4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER
13	PROPPING TIMES FOR SLABS AND BEAMS:	14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER
14	CANTILEVER SLABS AND BEAMS:	
15	(NOTE TO CUBE TEST RESULTS BEING SUBMITTED TIMELY TO ENGINEER FOR APPROVAL)	
16	NO PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCT BY ENGINEER.	
17	CONCRETE FINISHES: UNLESS NOTED OTHERWISE	
18	COLUMNS AND BEAMS:	SMOOTH FINISH
19	BEAMS AND SLAB SOFFIT:	OFF SHUTTER
20	TOP OF SUSPENDED SLABS:	STEEL FLOOR
21	SURFACE BEAMS AND SLABS:	POWER FLOOR
22	SIDES OF WALL BEAMS TO BE SHUTTERED.	

[illegible]

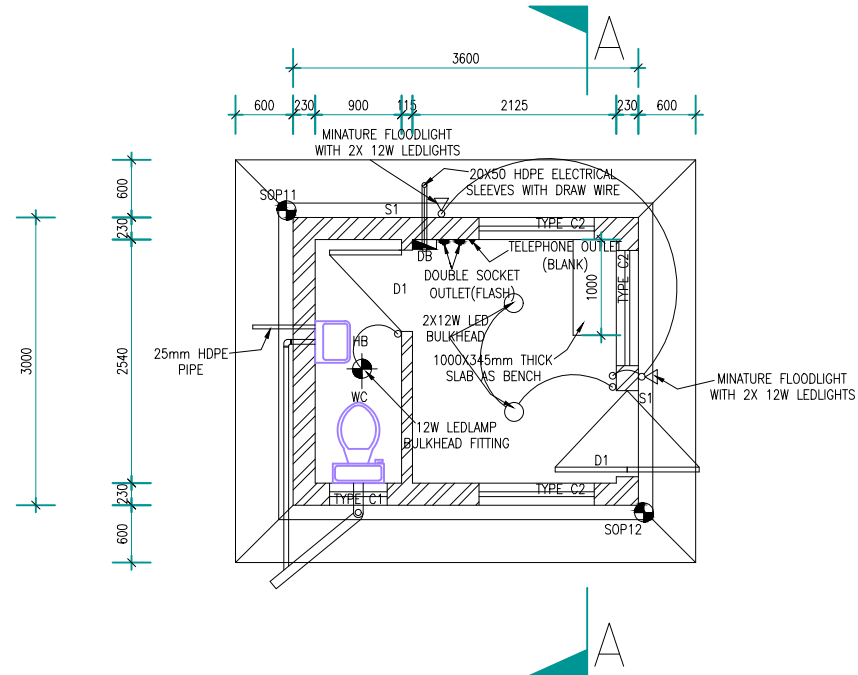
No	Date	Details	Chd	Ap	
Revisions					

Project:		LANGLAAGTE DEPOTS	
Description:			
NAME BOARD			
Issued For:			
TENDER			
Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	3 OF 4	March 2025
Project No:		Drawing No:	Revision:
CO1518		GEN-01	0

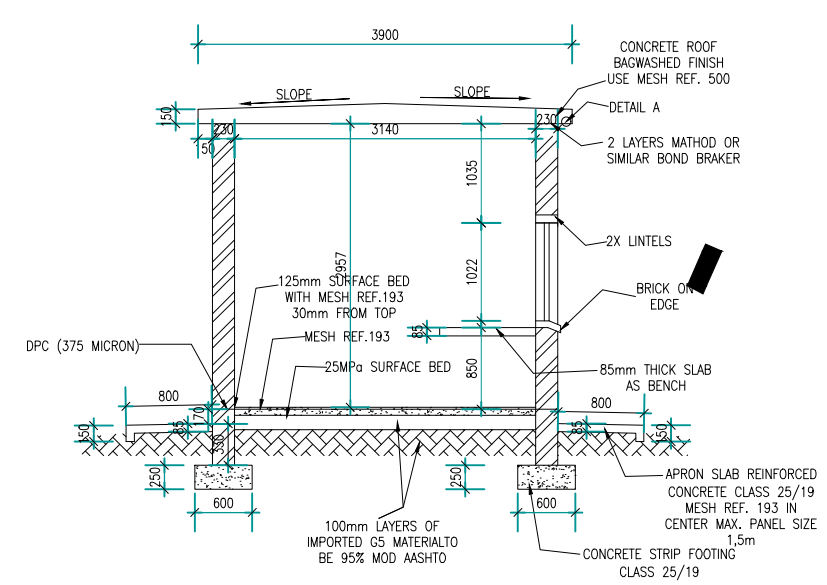


NOTE:
ALL WELDS TO BE 6mm FILLET
WELD ALL AROUND UNLESS
OTHERWISE SPECIFIED

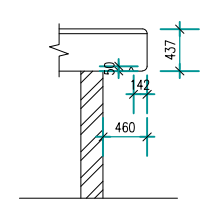
<p>ENGINEER:</p> <div style="display: flex; align-items: center;"> </div> <p>KEON CONSULTING ENGINEERS 24 FIVEWAY STREET, JOHANNESBURG TEL: (011) 801 8811 EMAIL: engineering@technodesigns.co.za WEBSITE: www.technodesigns.co.za</p> <p>KEON CONSULTING ENGINEERS 646 5th Avenue Newtown Port Elizabeth TEL: (021) 4363019 WEBSITE: www.keon.co.za</p>	<p>CLIENT:</p> <div style="display: flex; align-items: center;"> </div> <p>JOHANNESBURG WATER TURBINE HALL 65 NEEMI PILOOT STREET, NEWTOWN, JOHANNESBURG</p>	<p>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.</p> <p>ON ORIGINAL</p> <p>Engineer: T. Chikwata PE Eng (20140009)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Drawn By:</th> <th>Designed By:</th> <th>Checked By:</th> </tr> <tr> <td>P. Mammo</td> <td>T. Mapumo</td> <td>T. Chikwata</td> </tr> </table> <p>Signature: _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Date:</th> <th>Date:</th> <th>Date:</th> </tr> <tr> <td>March 2025</td> <td>March 2025</td> <td>March 2025</td> </tr> </table>	Drawn By:	Designed By:	Checked By:	P. Mammo	T. Mapumo	T. Chikwata	Date:	Date:	Date:	March 2025	March 2025	March 2025	<p>CONCRETE NOTES:</p> <ol style="list-style-type: none"> 1.0 SETTING OUT AND GENERAL: 1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECTS' 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. 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. 12000 AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S. 12000. 1.8 CONSULT RELEVANT ARCHITECTS' MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER UTILITIES, RIVDIPS AND HOLES AND LEEVES 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 CAST 2.3 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 19mm BLENDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS. 2.4 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE TO THE CONTRACTOR'S EXPENSE. 2.5 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. 2.6 ALLOWABLE BEARING PRESSURE UNDER: CONCRETE BASES = 100kPa 2.7 STRIP FOOTINGS = 100kPa 3.0 CONCRETE 3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH: BASES: 25MPa / 19mm 3.2 STRIP FOOTINGS: 25MPa / 19mm 3.3 TOP MINIMUM LAPS = 300mm / 15mm 3.4 SUSPENDED SLABS & BEAMS: 30MPa / 19mm 3.5 COLUMNS: 30MPa / 19mm 3.6 ALL MESH DESIGNS FOR LAPS OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERUSAL AND COMMENT. CONCRETE MESH DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BEAD CHARACTERISTICS. 3.7 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING. 3.8 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 12000 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE. 3.9 THIS DRAWING SHOULD BE SUBMITTED TO THE ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL. 4.0 REINFORCEMENT 4.1 CHARACTERISTIC STRENGTH: MILD STEEL: 250N/mm² 4.2 HIGH YIELD STEEL: 450N/mm² 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 THE OF INSPECTION. 4.4 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER UNLESS OTHERWISE NOTED. 4.5 MESH REINFORCEMENT REFERENCE 240 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm / 15mm 4.6 NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER. 4.7 THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN 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Drawn By:	Designed By:	Checked By:													
P. Mammo	T. Mapumo	T. Chikwata													
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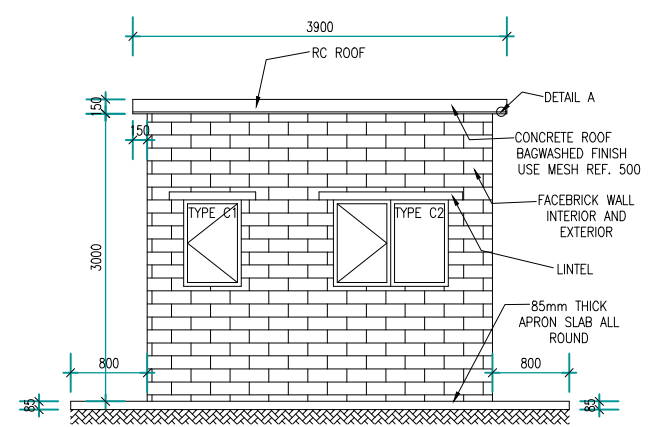
FLOOR PLAN VIEW
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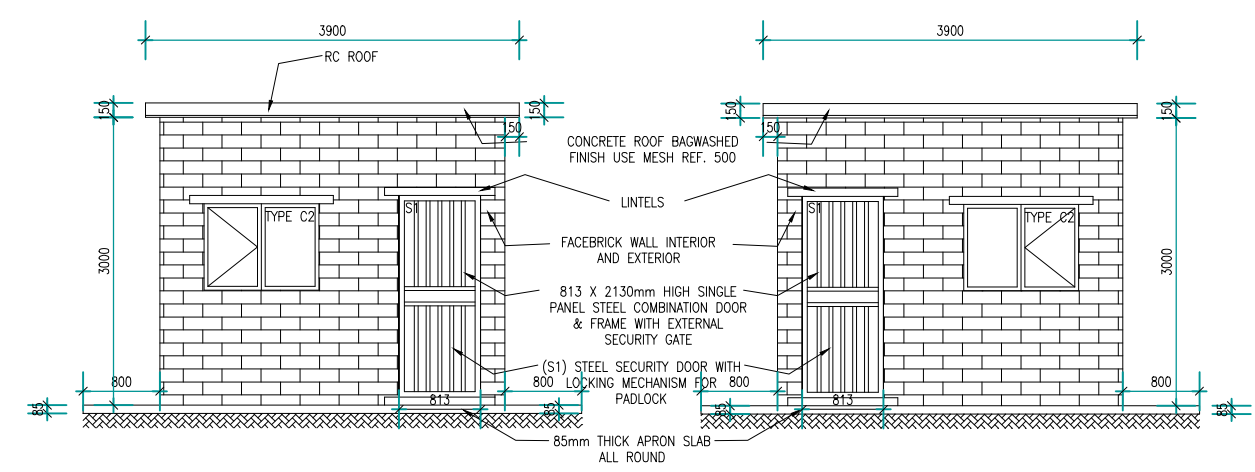
SECTION AA
SCALE 1:50



DETAIL A
SCALE 1:50



BACK VIEW
SCALE 1:50



FRONT VIEW
SCALE 1:50

RIGHT VIEW
SCALE 1:50

KEON CONSULTING ENGINEERS TECHNO DESIGNS Civil Structures & Transport Engineers	Johannesburg Water Turbine Hall, 46 Miami Plaza Street, Newtown, Johannesburg	THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF MATERIALS (BOM) IN THOSE CASES WHERE THE BOM SPECIFICATIONS DIFFER FROM THESE NOTES. THESE NOTES SHALL TAKE PRECEDENCE ON ORIGINAL. Engineer: T. Chikwata Pr Eng (20140000) Drawn By: M. Mumba Designed By: T. Mapumo Checked By: T. Chikwata Signature: _____ Date: October 2023	Refer to Drawing No: _____ Key Plan: _____	Project: JOHANNESBURG WATER DEPOTS Description: TYPICAL GUARD HOUSE Issued For: INFORMATION Scale: A1 As Shown Sheet No: 1 OF 1 Original Date: October 2023 Project No: C01518 Drawing No: SC-01 Revision: A0
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