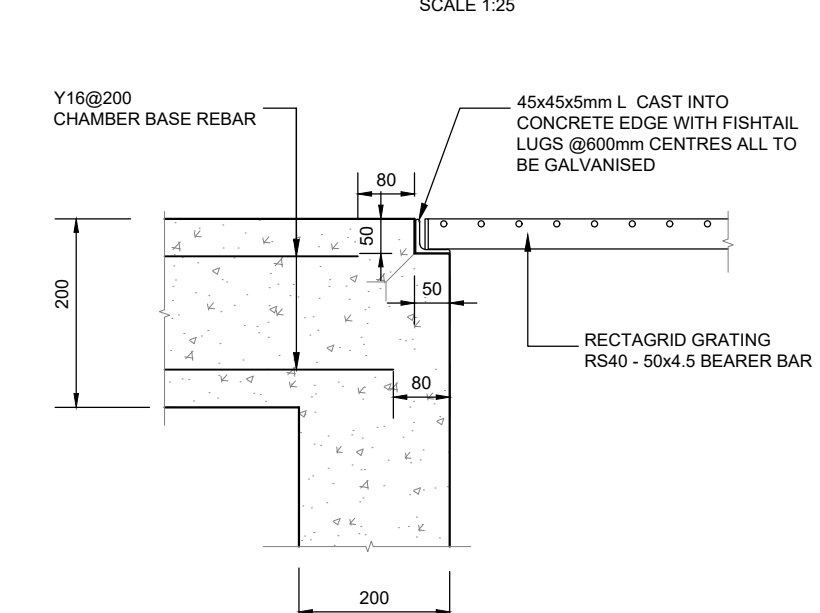
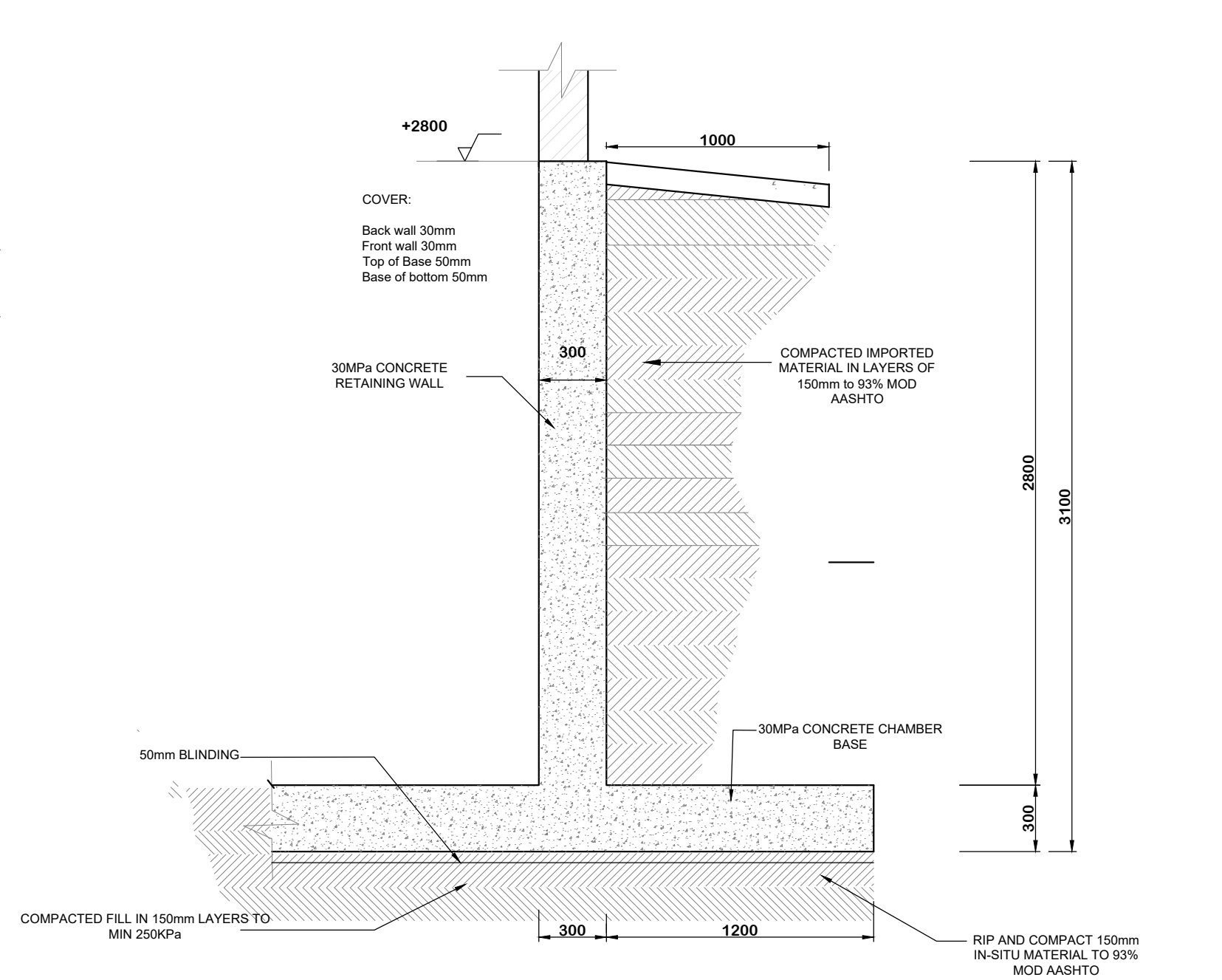


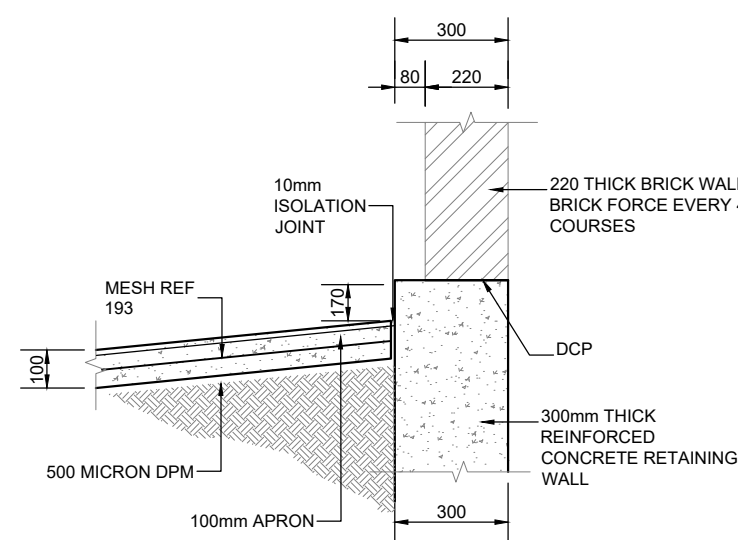
TYPICAL 300mm PIPE SUPPORT DETAIL



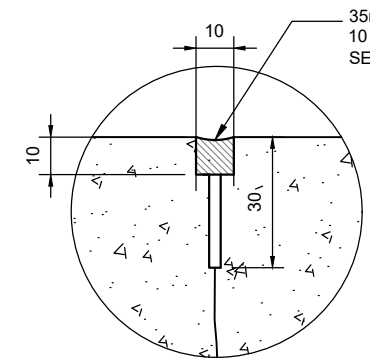
TYPICAL RECTAGRID DETAIL



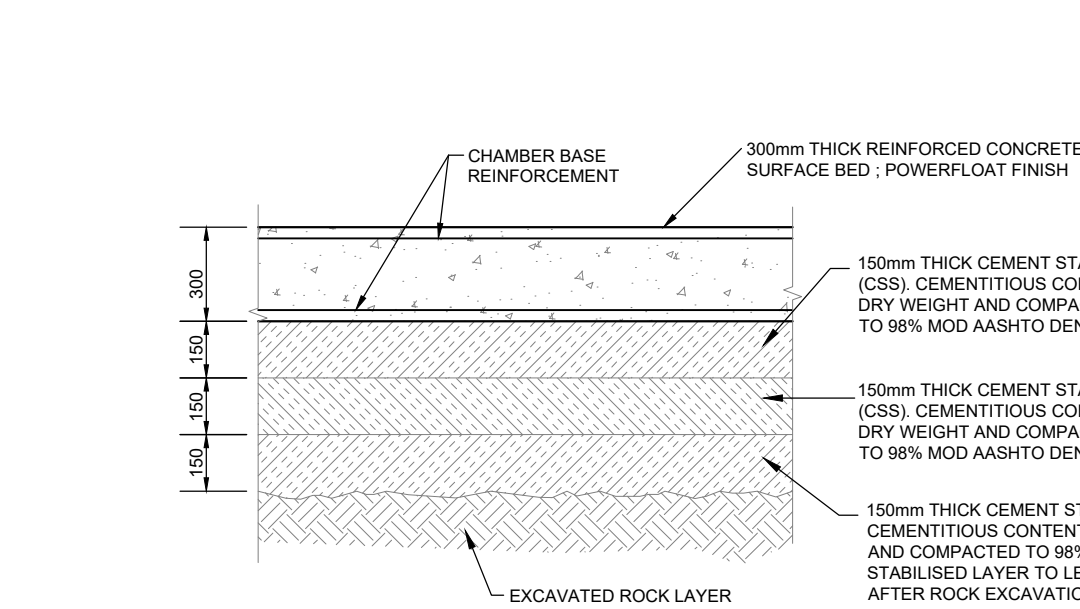
TYPICAL RETAINING WALL DETAIL



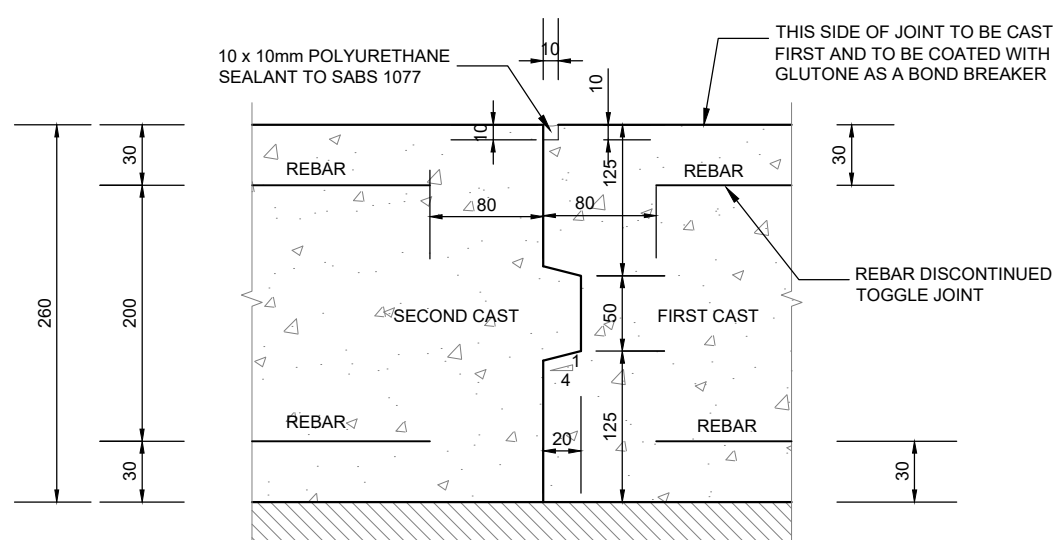
TYPICAL DETAIL 4



DETAIL A OF SCJ



TYPICAL LAYERWORKS COMPACTION DETAIL



TYPICAL CONSTRUCTION JOINT

SCALE: 1:5

CHAMBER BASE LAYOUT

- ALL INTERNAL BRICKWALLS ARE TO BE FOUNDED ON STRIP FOOTINGS UNLESS OTHERWISE NOTED.
 - NO BRICK WALLS ARE TO BE FOUNDED ON THE SURFACE BED WITHOUT WRITTEN CONSENT FROM THE ENGINEER
- NOTE: CONTRACTOR TO CONFIRM PANEL CONSTRUCTION WITH ENGINEER BEFORE CASTING SURFACE BED

BEAM SIZE LEGEND		
BEAM No.	SIZE	TYPE
SB01	80x80x6 ANGLE IRON	STEEL
SB02	254x146x43KG	STEEL

PIPE SUPPORT SIZE LEGEND		
SUPPORT No.	SIZE	TYPE
P1-P19	600 x 250 x 850 HIGH	RC

1. MINIMUM OVERLAP FOR 500 MICRON DAM PROOF MEMBRANE IS 300mm
2. MINIMUM LAP LENGTH FOR MESH IS 300mm
3. SURFACE BED TO BE CURED BY DAYS BEING KEPT WET CONTINUOUSLY
4. FOR AT LEAST 5 CONSECUTIVE DAYS OR BY APPLYING A CURING
5. COMPOUND WHICH MUST FIRST BE APPROVED BY THE ENGINEER.
6. SAWN JOINTS TO BE CUT WITHIN 36 HOURS OF CONCRETE CASTING.
7. COMPACTION DENSITY TESTS RESULTS FOR LAYERWORKS BENEATH
8. TO BE SUBMITTED TO ENGINEER FOR APPROVAL BEFORE
9. LAYING DPC
10. NO BACKFILL MATERIAL TO BE BROUGHT ONTO SITE WITHOUT APPROVAL
11. FROM THE ENGINEER.

BRICK CONSTRUCTION NOTES:

1. ALL BRICKWORK TO BE BUILT IN ACCORDANCE WITH GENERAL BRICKWORK SPECIFICATIONS.
2. ALL MASONRY WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 0145 AND SABS 0164 PART 1.
3. WALL TIES TO BE PROVIDED AT RC COLUMNS AND WALLS AT INTERVALS NOT EXCEEDING 4 BRICK COURSES.
4. WALL TIES TO BE PROVIDED ABOVE STAGGERED BRICKWORK CAVITIES AT INTERVALS NOT EXCEEDING 900mm HORIZONTALLY AND 300mm VERTICALLY WITH EACH LAYER STAGGERED BY 450mm. WIRE TIES TO CONFORM TO SABS 28.
5. BRICK FORCE REINFORCEMENT TO BE PROVIDED AT EVERY COURSE BELOW DPC AND AT EVERY 4TH COURSE ABOVE DPC. ALSO PROVIDE BRICK FORCE AT EVERY COURSE FOR THE FIRST 4 COURSES ABOVE ALL OPENINGS (WINDOWS, DOORS ETC).
6. HEIGHT OF BRICK WORK ERECTED IN 24 HOURS NOT TO EXCEED 10 BRICK COURSES.

Refer To Drawing No:

No	Date	Details Revision:	Chd	App

Project:
JW1440 -LINBRO PARK TOWER
(WITH ASSOCIATED WORKS)

Description:
CHAMBER 12 RETAINING WALL
PLAN LAYOUTS

Issued For: **TENDER**

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	3 OF 6	SEPT 2022

Project No:	Drawing No:	Revision:
C01486	PS-07	T0

<p>Engineer:</p> <p>KEON</p> <p>CONSULTING ENGINEERS</p> <p> TECHNO DESIGNS</p> <p>Civil Structural & Transport Engineers</p>		
<p>TECHNO DESIGNS ENGINEERING</p> <p>33 Dang Street Glen Austin Melbourne VIC 3060 TELEPHONE (011) 045 2532 CELL (072) 301 8811 E-MAIL info@technodesigns.co.za OFFICES: JOHANNESBURG www.technodesigns.co.za</p>		
<p>KEON CONSULTING ENGINEERS</p> <p>5th Avenue Office Park, 545 Avenue Newton Port Elizabeth TELEPHONE +27 41363018 WEBSITE www.keon.co.za</p>		

Client:



JOHANNESBURG WATER

Turbine Hall,
65 Niami Piliso 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 15 25 30 40 50MM

Engineer: _____

T. Chikwata Pr Eng (201400095)

Drawn By: T. Chikwata	Designed By: T. Chikwata	Checked By: T. Chikwata
Signature: _____	Sign over: _____	Sign over: _____
Date: _____ 2023	Date: _____ 2023	Date: _____ 2023

CONCRETE NOTES:

1 **SETTING OUT AND GENERAL**

2 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH

3 ARCHITECT'S DRAWINGS

4 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE

5 BEFORE WORK IS PUT IN HAND

6 THE WORK IS TO BE DONE BY AN ARCHITECT OR ENGINEER

7 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY

8 THE DIMENSIONS AND LEVELS SPECIFIED IN THE ARCHITECT

9 WHERE CLARITY IS SOUGHT

10 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM

11 THE REFERENCE TO SURVEY INFORMATION AND ARCHITECT'S

12 DRAWINGS

13 ALL CONCRETE WORK IS TO BE CARRIED OUT IN ACCORDANCE

14 WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S

15 ALL CONCRETE WORK IS TO BE CARRIED OUT IN ACCORDANCE

16 WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S

17 IN ACCORDANCE WITH S.A.N.S 12000

18 ALL CONCRETE WORK IS TO BE CARRIED OUT IN ACCORDANCE

19 WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S

20 WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S

21 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND

22 APPROVED BY THE ARCHITECT BEFORE WORK IS CARRIED OUT

23 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND

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99 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND

100 APPROVED BY THE ARCHITECT BEFORE WORK IS CARRIED OUT

CAST
NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm
THICK LAYER OF 10MPa / 15mm BLINDING CONCRETE IS TO BE
CAST UNDER ALL REINFORCED BASES. REINFORCED STRUT
FOOTINGS AND GROUND BEAMS
CONCRETE MIXES ARE TO BE MADE GOOD WITH 10MPa / 15mm
CONCRETE AT THE CONTRACTORS EXPENSE.
CONCRETE MIXES TO BE MADE IN ACCORDANCE WITH THE
APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE
WITH THE PERFECT SPECIFICATIONS.
DRAINABLE BEARING PRESSURE 250kPa
CONCRETE BASES ARE TO BE
STRIP FOOTINGS 25kPa / 15mm
CONCRETE CHARACTERISTIC 28 DAY STRENGTH
BASES 30kPa / 15mm
STRIP FOOTINGS 25kPa / 15mm
SURFACE BASES 30kPa / 15mm
SUSPENDED SLABS & BEAMS 30kPa / 15mm
COLUMNS 30kPa / 15mm
CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE
GIVEN TO ENGINEER FOR PERUSA AND COMMENT. CONCRETE MIX
DESIGNS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL
CHARACTERISTICS
CONCRETE TO BE ADEQUATELY CURED BY KEEPING
SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER

ALL CONCRETE TO BE CONSTRUCTED TO THE S A N S 10000
PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II

3.4 REINFORCEMENT OTHERWISE NOTED

CONCRETE CURE TEST RESULTS TO BE SUBMITTED TIMELY TO
ENGINEER FOR PERJURAL RECORDS, COMMENT AND
APPROVAL

REINFORCEMENT CHARACTERISTIC STRENGTH:

MILD STEEL 250N/MM²

HIGH YIELD STEEL 500N/MM²

REINFORCEMENT TO BE CHECKED AT APPROVED BY
ENGINEER BEFORE ANY CAST IS CAST. 48 HOURS

CONCRETE TO BE COVERED TO PROTECT FROM REDUCTION TIME OF
INSPECTION

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

MEAN REINFORCEMENT REFERENCE ZONES TO BE PLACED IN SLAB
AND COLUMN 45.0mm UNLESS OTHERWISE NOTED

THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE
THAT ALL REINFORCED CONCRETE IS COVERED TO PROTECT FROM
ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO
SIGN FOR INSPECTION OF THE REINFORCEMENT

COVER TO REINFORCEMENT

SLIP FOOTINGS:

COLUMNS AND WALLS:

BASES:

30mm
50mm
75mm
100mm

	SUSPENDED BEAMS:	30mm
4.7	CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION	
5.0	FORMWORK AND PROPPING	
5.1	STRUTTING TIMES FOR COLUMN AND WALL SHUTTERING	15 DAYS
	SLAB SHUTTERING:	7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.
	FLAT SLABS:	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
	CANTILEVER SLABS AND BEAMS:	21 DAYS
	SUBJECT TO TIME TEST RESULTS. <i>NOT SUBMITTED TIMELY</i> (U.S. TO ENGINEER FOR APPROVAL)	
	CONTRACTOR TO BE RESPONSIBLE FOR THE PROTECTION OF SUSPENDED ELEMENTS UNTIL INSTRUMENTED BY ENGINEER.	
5.3	CONCRETE FINISHES, UNLESS NOTED OTHERWISE	
	COLUMNS AND WALLS:	POWDER FLOAT
	BEAMS AND SLABS OFF-CUT:	OFF SHUTTER
	TOP OF SUSPENDED SLABS:	POWDER FLOAT
	SURFACE BEDS:	POWDER FLOAT
	BASES OF DOWN GRADES TO BE SHUTTERED.	

[illegible]