

## GENERAL:

-THE STRUCTURAL DRAWINGS SHALL BE READ WITH THE ARCHITECTURAL DRAWINGS AND ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER IMMEDIATELY.

-REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ANY OTHER ADDITIONAL SLEEVES, ANCHORS, VENT OPENING ETC. NOT SHOWN ON STRUCTURAL DRAWINGS THAT MAY BE REQUIRED.

-ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE PRIOR TO COMMENCING, SETTING OUT, WORKSHOP DRAWINGS OR CONSTRUCTION.

-DO NOT SCALE, FOLLOW ONLY WRITTEN DIMENSIONS.

-DISCREPANCIES, ERRORS, OMISSIONS TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY AFTER BEING EVIDENT.

-SHOP DRAWINGS TO BE SUBMITTED AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO ANY MANUFACTURE.

-COPYRIGHT AND RIGHT OF REPRODUCTION OF THIS DRAWING OR LISTED IN DRAWING REGISTER OR ANY PORTION THEREOF IS RESERVED BY THE ENGINEER.

-BEAM SIZES EXPRESSED AS WIDTH x DEPTH. DEPTH INCLUDES THICKNESS OF SLAB WHERE APPLICABLE.

-UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETRES.

-DRAWINGS TO BE READ IN CONJUNCTION WITH ALL CONTRACT SPECIFICATIONS.

-POSITION OF BRICK OR/AND CONCRETE HOLLOW BLOCK WALL SHALL BE ACCORDING TO THE ARCHITECTURAL DRAWINGS.

## CONSTRUCTION GENERALLY:

- ALL CONCRETE WORK SHALL BE WITNESSED BY MAIN CONTRACTOR AND ENGINEER.

- REFERENCE TO MAIN CONTRACTOR IS DENOTED BY M.C.

- M.C. SHALL ENSURE COMPLIANCE WITH LOCAL REGULATIONS AND CONDITIONS AND OWNER'S CONTRACTUAL SAFETY REQUIREMENTS.

- BY EXECUTING CONTRACT, M.C. AFFIRMS HE HAS VISITED THE SITE AND IS FAMILIAR WITH CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, SHOULD SOIL CONDITIONS FAIL TO MEET ABOVE MINIMUM REQUIREMENTS, M.C. SHALL NOTIFY ENGINEER PRIOR TO BEGINNING FOUNDATION AND FOOTING WORK.

- M.C. SHALL REFER TO ARCHITECTURAL ELECTRICAL AND MECHANICAL DRAWINGS FOR ANY OTHER ADDITIONAL SLEEVES, ANCHORS, VENT OPENING, ETC. NOT SHOWN ON STRUCTURAL PLANS THAT MAY BE REQUIRED.

- THE CONTRACTOR SHALL MAINTAIN THE REINFORCEMENT IN THE CORRECT POSITION DURING CONCRETING.

- THE POSITION, AND FORM OF ANY CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ENGINEER.

- IN GENERAL, CONSTRUCTION JOINTS SHALL BE INTRODUCED ONLY WITH ENGINEER'S CONSENT.

- CONCRETE MAY NOT BE CAST, CUT OR DEMOLISHED WITHOUT THE APPROVAL OF THE ENGINEER.

- DUCT OPENINGS e.t.c. SHALL NOT BE INTRODUCED INTO CONCRETE MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.

- IN R.C. FRAMED CONSTRUCTION, NO BRICKWORK OTHER THAN THAT DESIGNATED "LOAD-BEARING" SHALL BE TAKEN TO UNDERSIDE OF CONCRETE UNTIL SHUTTER PROPS HAVE BEEN REMOVED.

## CONSTRUCTION GENERALLY:

- THE CONTRACTOR SHALL CALL FOR THE ENGINEER'S INSPECTION AND OBTAIN HIS APPROVAL FOR WORK DONE BEFORE PROCEEDING FURTHER:

\* WHEN FOUNDATION EXCAVATIONS ARE COMPLETE.

\* WHEN THE TOP SOIL HAS BEEN REMOVED TO EXPOSE THE SUB-BASE UNDER THE SURFACE-BED SLABS.

\* WHEN THE SUBGRADE HAS BEEN BUILT UP TO FINAL LEVELS.

\* WHEN THE REINFORCEMENT HAS BEEN FIXED, CHECKED AND IS READY FOR CONCRETING.

\* BEFORE TAKING REMEDIAL ACTION TO CORRECT IMPERFECTIONS IN CONCRETE.

\* BEFORE FINISH PAINTING STEEL FRAMEWORKS.

\* BEFORE GROUTING-IN STEEL FRAMEWORKS.

\* BEFORE SHEETING OR BRICKING IN STEEL FRAMEWORKS.

## FOUNDATION:

- CLEARING AND GRUBBING, REMOVE ALL VEGETATION WITHIN IMPROVED AREA DEFINED ON SITE PLAN.

- ALL TOP SOIL SHALL BE STRIPPED FROM AREAS TO BE PAVED, EXCAVATED OR FILLED. TOP SOIL SHALL BE STORED IN STOCKPILES, FOR REUSE IN LANDSCAPED AREAS.

- GRADING AND EARTH WORK AS REQUIRED. AREA WITHIN 2.0 METRES OF ALL FOOTINGS SHALL BE COMPACTED TO 90% OF ITS STANDARD PROCTOR DENSITY.

- FOUNDATION TOLERANCES ELEVATION 6mm ALIGNMENT 3mm OVERALL ANCHOR BOLT DIMENSION [6mm, ANCHOR BOLT TO ANCHOR BOLT DIMENSION 3mm].

- MAIN CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY MEASURES TO SECURE EXCAVATION WORKS AS THE SOILS ARE SUSCEPTIBLE TO COLLAPSE DURING EXCAVATIONS. CONTRACTOR TO COMPLY WITH "SOIL TEST REPORT" DONE BY SOILTEST LABORATORIES.

- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL.

- PRIOR TO CASTING OF FOOTING, THE SOIL SHALL BE COMPACTED TO AT LEAST 91% MOD AASHTO, IF NOT OTHERWISE SPECIFIED.

- A 50mm THICK LAYER OF GRADE 15 CONCRETE SHALL BE LAID UNDER ALL REINFORCED FOUNDATION BLOCKS. WHERE THE ALLOWABLE BEARING PRESSURE OF THE GROUND IN THE JUDGEMENT OF THE S.O. IS NOT REALISED AT THE DEPTHS INDICATED ON THE STRUCTURAL DRAWINGS, EXCAVATION SHALL BE TAKEN DOWN TO A LEVEL DIRECTED AND APPROVED BY S.O. EXCESS EXCAVATION SHALL BE BACKFILLED WITH GRADE 10 CONCRETE UNLESS THE EXCESS EXCAVATION IS GREATER THAN 300mm IN WHICH CASE INSTRUCTIONS SHALL BE OBTAINED FROM THE ENGINEER.

- PROVIDE/SCRAPE 400mm THICK UNDERFLOOR FILL LAYER OF LOCAL MATERIAL TO BE LOOSE AND SATURATED WITH WATER MINIMUM 48 HOURS BEFORE POURING SUSPENDED R.C. GROUND FLOOR SLAB. THE LEVELED FILL SHOULD BE SEALED AGAINES MOISTURE MIGRATION BY MEANS OF THICK POLYTHENE BUILDING MEMBRANE.

- A 50mm THICK BLINDING LAYER OF GRADE 10 CONCRETE SHALL BE LAID UNDER ALL SUSPENDED R. C. GROUND FLOOR SLABS.

- UNLESS OTHERWISE SHOWN ALL FOOTINGS ARE CONCENTRIC TO COLUMNS AND WALLS.

- PRIOR TO CONCRETING LINE ALL FOOTINGS AND GROUND BEAMS EXCAVATION WHERE FORMWORK IS NOT USED, WITH HEAVY GAUGE POLYTHENE SHEET. JOINTS SHALL BE DOUBLE-WELTED.

- FOUNDATION DEPTH SHALL BE MINIMUM 700mm BELOW NATURAL GROUND LEVEL AND AVAILABLE SOIL BEARING CAPACITY IS MINIMUM 150 KPa. MAIN CONTRACTOR TO CHECK BOTH CONDITIONS AND CONFIRM MINIMUM DESIGN REQUIREMENTS.

- BACKFILL, MATERIAL AROUND THE FOUNDATIONS, SHALL BE COMPACTED IN 150mm LIFTS TO 93% MOD AASHTO. BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.

## REINFORCEMENT:

- THE FOLLOWING TYPES OF REINFORCING STEEL SHALL BE USED:

\* R. ROUND MILD STEEL BARS COMPLY WITH BS 4449 / SABS82\_1997 WITH 2 MINIMUM SPECIFIED CHARACTERISTIC STRENGTH  $F_y = 250 \text{ N/mm}^2$ .

\* Y. HIGH YIELD STEEL BARS COMPLY WITH SABS 82\_1997, BS 4449 OR 2 BS 4461 WITH CHARACTERISTIC STRENGTH  $F_y=450 \text{ N/mm}^2$ .

\* WELDED STEEL MESH COMPLY WITH BS 4482.

\* BENDING DIMENSIONS FOR REINFORCEMENT SHALL CONFORM WITH SANS 10144 SUFFICIENT CONCRETE SPACERS SHALL BE PLACED UNDER THE REINFORCEMENT TO FIX AND MAINTAIN THE STEEL POSITION DURING CONSTRUCTION.

- BINDERS FOR TOP BARS OF SLAB SHALL BE RB. AT 500mm CENTRES UNLESS OTHERWISE SPECIFIED.

- SPLICERS OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWING OR IN SPECIFICATIONS OR AS AUTHORISED BY THE S.O.. (FOR CONSIDERATIONS AFFECTING DESIGN DETAILS REFER SANS 10144 UNLESS OTHERWISE SHOWN).

- KEY TO SYMBOLS AND ABBREVIATIONS ON DRAWINGS:

B. BARS IN BOTTOM

B1. LOWEST OF THE BOTTOM LAYERS

B2. SECOND OF THE LOWEST BOTTOM LAYERS

T. BARS IN TOP

T1. HIGHEST OF THE TOP LAYERS

T2. SECOND HIGHEST OF THE TOP LAYERS

EF. BARS IN EACH FACE

NF. BARS IN NEAR FACE OF WALL OR COLUMN

FF. BARS IN FAR FACE OF WALL OR COLUMN

AP. BARS ALTERNATELY PLACED

AR. BARS ALTERNATELY REVERSED

AS. BARS ALTERNATELY STAGGERED

UB. "U" BARS

LB. "L" BARS

EF. EACH FACE

EW. EACH WAY

## CONCRETE:

- STRUCTURAL CONCRETE SHALL BE THE FOLLOWING GRADES ( CUBE STRENGTHS AT 28 DAYS)

\* BLINDING CONCRETE - GRADE 15

\* FOUNDATION & GROUND SLAB - GRADE 25

\* BEAMS & SLABS - GRADE 30

\* COLUMNS - GRADE 30

- MINIMUM COVER TO MAIN REINFORCEMENT UNLESS OTHERWISE NOTED SHALL BE:

\* FOOTINGS & GROUND BEAMS 50mm

\* SLABS 25mm

\* BEAMS 25mm

\* COLUMNS 25mm

\* WALLS 25mm

- CONCRETE SHALL NOT BE PLACED IN RAINY WEATHER.

- ALL NEWLY PLACED CONCRETE SHALL BE PROTECTED FROM RAPID DRYING AND EXTREME TEMPERATURE CHANGES. CURING SHALL BEGIN AS SOON AS POSSIBLE AFTER FINISHING.

- WET COVERING (SUCH AS BURLAR, COTTON MATS OR OTHER MOISTURE-RETAINING FABRICS), IMPERVIOUS PAPER, PLASTICS SHEETS OR INSULATING BLANKETS (SUCH AS STRAW OR HAY) MAY BE USED FOR THE CURING PROCESS.

- ALL CONDUITS SHALL RUN ABOVE BOTTOM REINFORCEMENT, BELOW TOP REINFORCEMENT AND WITHIN BEAM LINKS, WALL REINFORCEMENT AND COLUMN STIRRUPS. LINES OF CONDUITS SHALL BE SPACED NO CLOSER THAN 3D (D-DIAMETER OF CONDUIT) IN CENTER. MAXIMUM SIZE OF CONDUIT IN SLAB IS 1/3 OF SLAB THICKNESS.

- NO PIPES SHALL PASS THROUGH CONCRETE WITHOUT THE PERMISSION OF THE ENGINEER.

- STEEL PIPES AND SLEEVES SHALL BE PROVIDED AND SPACED MINIMUM 3 DIAMETERS APART. FOR OPENING LARGER THAN 200mm ADDITIONAL REINFORCEMENT AROUND OPENING SHALL BE PROVIDED.

- CONSTRUCTION JOINTS IN GROUND FLOOR SLAB OR/AND IN CONCRETE WALL SHALL BE SPACED NOT MORE THAN 15m APART. SHRINKAGE JOINTS IN FLOOR SLAB SHALL BE FILLED IN WITH CONCRETE ON EITHER SIDES HAS BEEN CAST. LOCATION OF SHRINKAGE JOINTS TO BE APPROVED BY THE ENGINEER.

- ALL CONCRETE SIZES DO NOT INCLUDE FINISHES UNLESS NOTED OTHERWISE.

- FOR RAINWATER DRIPS AND CHAMFERS REFER TO ARCHITECT'S DRAWINGS UNLESS OTHERWISE SHOWN ON DRAWINGS.

- KEY TO SYMBOLS AND ABBREVIATIONS ON DRAWINGS:

B. BEAM

C. COLUMN

F. FOOTING

GB. GROUND BEAM

SC. STUB COLUMN

L. LINTEL CAST ON SITE

PB. PRECAST CONCRETE BEAM

W. R.C. WALL

RB. RING BEAM

BFL BOTTOM FOUNDATION LEVEL

SFL STRUCTURAL FLOOR LEVEL

▽ +3810 TOP LEVEL OF STRUCTURAL ELEMENT (FOOTING, SLAB, BEAM)

--- R.C. COLUMN & WALL BELOW SLAB SHOWN

▭ R.C. COLUMN & WALL ABOVE SLAB SHOWN

## TIMBER ROOF STRUCTURE:

- WORKSHOP DRAWINGS FOR TIMBER ROOF STRUCTURE SHALL BE PREPARED BY SPECIALIST AND SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL.

## BRICK AND CONCRETE BLOCK WALLS:

- BRICK/BLOCK FOR LOAD BEARING BRICKWORK/BLOCKWORK SHALL BE OF OF THE FOLLOWING CLASS:

\* INDUSTRIAL 10.5 MPa

\* FACING 10.5 MPa

- SUB-STRUCTURE IS BRICKWORK OR HOLLOW BLOCKS INFILLED WITH CONCRETE GR. 20, IF NOT OTHERWISE DEFINED.

- LAY MASONRY PLUMB AND TRUE TO LINE, WITH COURSES LEVEL AND SPACED ACCURATELY.

- LAY CONCRETE MASONRY UNITS (CMU) IN RUNNING BOND PATTERN.

- MAINTAIN MASONRY COURSES TO UNIFORM WIDTH.

- KEEP HEAD JOINTS PLUMB AND STRAIGHT TO LINE.

- CUT AND FIT UNSIZED CMU WITH MASONRY SAWS.

- CMU WITH DAMAGED FACES AND CORNERS ARE UNACCEPTABLE.

- SPREAD MORTAR SMOOTH WITHOUT FURROWING; BEVEL BED JOINTS AWAY FROM CAVITIES; FILL HEAD AND BED JOINTS COMPLETELY.

- LAY CORNERS AND REVEALS PLUMB AND TRUE; AVOID POUNDING CORNERS AND JAMBS TO FIT STRETCHER UNITS AFTER SET IN POSITION.

- ADJUST CMU TO FINAL POSITION WHILE MORTAR IS SOFT AND PLASTIC. REMOVE CHIPPED UNITS; INSTALL REPLACEMENTS WITH FRESH MORTAR.

- REMOVE CMU THAT ARE DISTURBED AFTER MORTAR HAS STIFFENED. REMOVE MORTAR AND RELAY WITH FRESH MORTAR.

- FULLY BOND AND INTERLOCK INTERSECTIONS, EXTERNAL AND INTERNAL CORNERS, UNLESS OTHERWISE INDICATED.

- CLEAN LOOSE MORTAR OFF MASONRY SURFACES WITH BURLAR CLOTH OR WETTED SPONGE IMMEDIATELY AS WORK PROGRESSES.

**LINTELS:**

- PROVIDE CMU LINTELS OR PRECAST LINTELS OVER ALL OPENINGS.

- ALL LINTELS SHALL BEAR A MINIMUM OF 200mm EACH SIDE OF OPENINGLINTEL LENGTH TO NOT EXCEED 3m.

- SHORE AND RE-SHORE LINTELS UNTIL 28 DAYS STRENGTH IS ATTAINED. MORTAR JOINTS:

- LAY EXPOSED MASONRY UNITS WITH FLUSH JOINTS, MINIMAL 10mm WIDE.

- TOOL JOINTS SMOOTH, FREE OF PINHOLES.

- MAKE VERTICAL AND HORIZONTAL JOINTS EQUAL AND OF UNIFORM THICKNESS.

- TOOL WITH PRESSURE TO SQUEEZE MORTAR INTO JOINTS WITHOUT BUTTERING FACE OF UNIT.

- FLUSH CUT JOINTS TO RECEIVE RESILIENT BASE AND WHICH WILL BE IN CONTACT WITH EARTH; TOOL SLIGHTLY TO CONSOLIDATE SURFACE.

**CONTROL JOINTS:**

- LEAVE CONTINUOUS FULL DEPTH VERTICAL OPEN JOINT AT 24 FEET ON CENTER MAXIMUM.

- BUILD IN JOINT FILLERS; JOINT WIDTH FOR SEAL ANTS IS 10mm.

**POINTING AND CLEANING:**

- DRY BRUSH MASONRY SURFACES TO CLEAN CONDITION BEFORE INITIAL SET.

- POINT DEFECTS IN MORTAR JOINTS AND CLEAN MASONRY WHICH IS TO REMAIN EXPOSED IN FINISHED WORK; CLEAN ADJACENT SURFACES WHICH MAY SOIL THE MASONRY.

- CLEAN SURFACES WITHOUT DAMAGE TO MASONRY, MORTAR, OR ADJACENT MATERIALS.

- PROTECT ADJACENT MATERIALS FROM SPOTTING, STAINING AND OTHER DAMAGE CAUSED BY CLEANING OPERATIONS.

- WELDED BRICK REINFORCEMENT SHALL BE PROVIDED AT EVERY FOURTH COURSE.

- UNLESS OTHERWISE STATED, ALL CHASES BE VERTICAL AND SHALL NOT EXCEED 25mm DEEP BY 40mm WIDE EXCEPT WITH CONSENT OF THE S.O.

## STEEL STRUCTURE:

- THE SPECIALIST FOR STEEL STRUCTURE SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR APPROVAL - STRUCTURAL STEEL MEMBER SHALL CONFORM TO BS 4360 GRADE 43A AND HAVE YIELD STRENGTHS OF 300 N/mm<sup>2</sup>

- WELDING OF STEEL SHALL CONFORM TO BS 5135 - BOLTS AND NUTS SHALL CONFORM TO BS 4190 - ELECTRODES USED FOR ALL WELDINGS SHALL CONFORM TO BS 639

- THE PROTECTIVE TREATMENT OF THE STEEL STRUCTURE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF BS 5493. PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH LOCAL ENVIRONMENTAL CONDITION.

- MINIMUM REQUIREMENT SHALL BE AS FOLLOWS:

\* TOTAL NOMINAL D.F.T. 75 MICRONS AS DEFINED IN BS 2569

\* THOROUGHLY CLEAN BY BLASTING ACCORDING TO BS 4232 SECOND QUALITY.

\* PRIME WITH ONE COAT OF RED LEAD PRIMER D.F.T. 15 MICRONS.

\* UNIVERSAL UNDERCOAT D.F.T. 20 MICRONS.

\* TWO INDUSTRIAL ENAMEL COATS D.F.T. 2x20 MICRONS.

- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

- EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

- BASIC WIND SPEED 38 M/SEC.

- WIND FORCE COEFFICIENTS ACCORDING TO BS CP3, CHAPTER V, PART 2.

- CONNECTIONS TO BE DESIGNED BY THE FABRICATOR TO DEVELOP FULL STRENGTH OF MEMBER OR FORCES SHOWN ON THE PLANS, WHICHEVER GOVERNS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED.

- STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.

- PROVIDE HOLES AND IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWING, OBTAIN PRIOR APPROVAL.

- GROUT UNDER BEARING PLATES, BASE PLATES, AND SETTING PLATES TO BE NON-SHRINKING TYPE.

- STEEL BELOW GRADE TO BE PROTECTED BY A MIN. OF 75mm OF CONCRETE.

- PROVIDE BOLT HOLES FOR TRUSSES BOLTED TO BEAMS AND ATTACHMENTS FOR JOINING EXTENDED JOIST BOTTOM CHORDS.

- MINIMUM BEAM BEARING ON MASONRY IS 200mm UNLESS NOTED OTHERWISE.



**MOPEDITHWI SUPPLY(PTY)LTD**  
"Supplies With integrity"

Title

S.1 NOTES

Drawn & Designed:

B.S

Checked:

B.S

Scale:

AS SHOWN

Paper Size:

A3

Date

2023/10/05  
22:17:38

Project No.

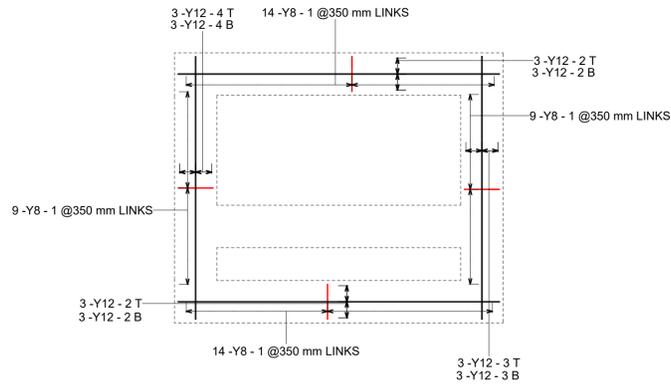
LDPE 2023/2024

Address:

16 Mareka Street, African Jewel, POLOKWANE

Contact details

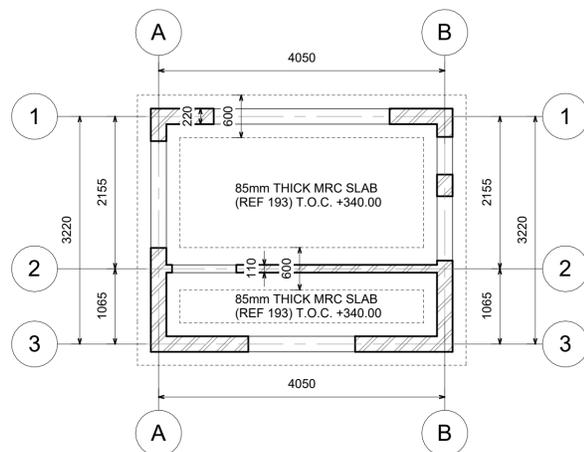
Tel: 015 632 2008  
Email: kgaogelo.kgm@gmail.com



1 FDN REBAR  
1 : 50

FOUNDATION REINFORCEMENT SCHEDULE													
MEMBER	No. OF	BARS PER MEMBER	DIA. Y/R	LENGTH	TOTAL NUMBER	MARK	SC	BENDING					
								A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)	
FOUNDATION	4	12	Y8	1520	46	1	60	150	500	0	0	0	0
FOUNDATION	2	6	Y12	4550	12	2	20	4550	0	0	0	0	0
FOUNDATION	1	6	Y12	3720	6	3	20	3720	0	0	0	0	0
FOUNDATION	1	6	Y12	3715	6	4	20	3715	0	0	0	0	0

FOUNDATION REINFORCEMENT WEIGHT SUMMARY		
MEMBER NAME	TYPE	WEIGHT
FOUNDATION	Y8	28 kg
FOUNDATION	Y12	88 kg
TOTAL		116 kg



2 GROUND FLOOR LAYOUT  
1 : 50

Table 8 — Maximum height of masonry foundation walls where fill is retained behind the wall

Nominal wall thickness mm	Wall type	Maximum difference in ground levels, <i>h</i> (see figure 9) mm		
			1	2
90 and 110	Single-leaf	200		
140	Single-leaf	400		
190	Single-leaf/collar-jointed	600		
220	Collar-jointed	700		
90-90	Cavity	700		
110-110	Cavity	1 000		
290	Collar-jointed	1 000		
330	Collar-jointed	1 200		

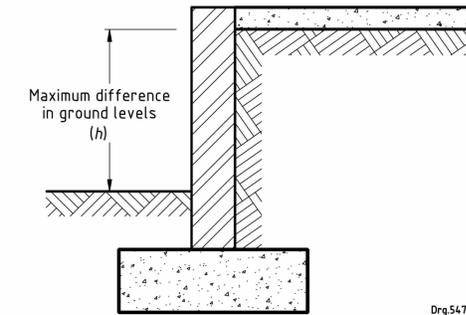
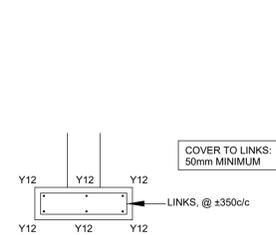
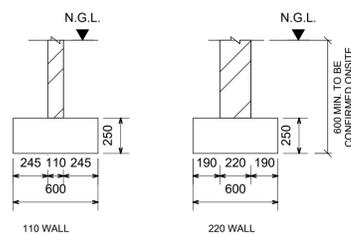


Figure 9 — Foundation walls

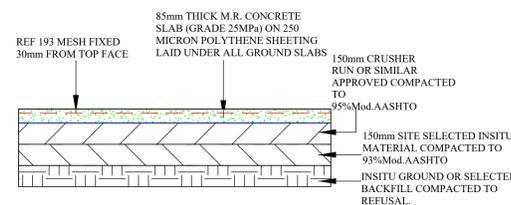
3 TABLE 8 - FDN WALL LEVELS  
1 : 50



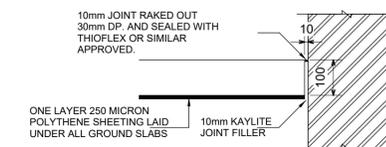
4 TYPICAL FDN. REBAR DET.  
1 : 25



5 TYPICAL FDN. SIZES DET  
1 : 25



6 TYPICAL GF. SLAB DET.  
1 : 25



7 TYPICAL GF. SLAB/WALL DET.  
1 : 10

ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR WORK COMMENCEMENTS. ANY DISCREPANCIES TO THE WORKS ARE TO BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION PRIOR IMPLEMENTATION THEREOF.

Rev	Description	Date

IMPLEMENTING AGENT  
**THE MVULA TRUST**  
A leading developmental NGO

SIGNATURE.....  
DATE.....

CLIENT  
**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF  
**EDUCATION**

CONSULTANT  
**MG**  
MOPEDITHWI SUPPLY(PTY)LTD  
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CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT  
**REHLAHLENG SPECIAL SCHOOL**

TITLE  
**Foundation rebar & detail.**

CLIENT  
**L.D.o.E**

DRAWN BY B.S	CHECKED BY B.S	DATE 10/05/23
SCALE (@ A1) As indicated	PROJECT NUMBER LDPE 2023/2024	
DRAWING NUMBER S.2	REV	