

STANDARD DRAWING NOTES

1. GENERAL NOTES

1.1 THESE NOTES ARE TO BE READ IN CONJUNCTION WITH ALL OF THE DRAWINGS

1.2 ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE APPLICABLE PARTS OF THE LATEST EDITION OF SANS 10400, SANS 2001, SANS 1200, THE OHS&A AND THE PROJECT SPECIFICATION IN THE CONTRACT DOCUMENTS

1.3 THE CONTRACTOR SHALL CHECK FOR DISCREPANCIES BETWEEN INFORMATION ON DRAWINGS INCLUDING THOSE BY OTHER CONSULTANTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK. ANY DISCREPANCIES SHALL, WITHOUT DELAY, BE REPORTED TO THE ENGINEER FOR A DECISION

1.4 THE CONTRACTOR SHALL CHECK ALL PROJECT DIMENSIONS ON SITE BEFOREHAND. ANY DIFFERENCES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER. ALL SANS SPECIFICATIONS MENTIONED IN THE NOTES, ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS SHALL BE VALUABLE ON SITE AT ALL TIMES IN HARD COPY FORMAT

1.5 ALL INSTRUCTIONS FROM THE ENGINEER SHALL BE WRITTEN IN THE SITE INSTRUCTION BOOK. THIS SHALL BE PROVIDED BY THE CONTRACTOR

1.6 UNLESS OTHERWISE INDICATED ON DRAWINGS, ALL WATERPROOFING, DRAINAGE FALLS AND FINISHES ARE ACCORDING TO THE ARCHITECT'S DETAILS AND SPECIFICATIONS

1.7 THE CONTRACTOR SHALL DISCLOSE HIS PROPOSED BUILDING SEQUENCE IN BROAD TERMS BEFORE SITE ESTABLISHMENT

1.8 ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ELEVATIONS AND COORDINATES ARE IN METERS (m), UNLESS OTHERWISE NOTED

1.9 ANY DEVIATION FROM THE CONSTRUCTION DRAWINGS IS APPROVED BY THE CONTRACTOR SHALL BE PROPOSED TO THE ENGINEER IN FULL DETAIL FOR A DECISION. THE ENGINEER'S JUDGMENT ON OBLIGATION TO APPROVE SUCH DEVIATIONS, BUT IF APPROVED, THE APPROVAL SHALL BE IN WRITING

2. EARTHWORKS AND FOUNDATIONS

2.1 ALL EARTHWORKS ARE TO BE DONE ACCORDING TO SANS 2001-DE-12008

2.2 LEVELS OF BASES AS SHOWN ARE PRELIMINARY. THE GEOTECHNICAL ENGINEER HAS TO CONFIRM THAT THE MATERIAL AT THE FOUNDING LEVEL HAS THE SPECIFIED BEARING CAPACITY AND STRENGTH. IF NOT AND THE EXCAVATION LEVEL HAS TO BE LOWERED, THE TOP LEVEL OF THE BASE SHOULD BE KEPT AS SHOWN AND THE PROPOSED SOIL IMPROVEMENTS SHOULD BE CONFIRMED BY THE GEOTECHNICAL AND/OR STRUCTURAL ENGINEER

2.3 ALL FOOTINGS SHALL BE PLACED SYMMETRICALLY BELOW COLUMNS AND BRICKWORK UNLESS OTHERWISE SHOWN

2.4 ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED IN WRITING BY THE GEOTECHNICAL AND/OR STRUCTURAL ENGINEER IN THE APPROVAL, OR WORKS BOOK BEFORE PLACING OF ANY CONCRETE FOUNDATION, BUILDING AND WATERPROOFING OR GEOGRABING MEMBRANE

2.5 NO FOUNDATION OR GROUND BEAM SHALL BE CAST ON EITHER NON-ENGINEERED FILL OR BACKFILL MATERIAL. PORTIONS THAT ARE OVEREXCAVATED BEYOND THE DEPTH REQUIRED BY THE ENGINEER, TO BE FILLED WITH MASS CONCRETE AT CONTRACTOR'S EXPENSE

2.6 A 50mm THICK BLINDING LAYER TO BE CAST UNDER ALL REINFORCED FOUNDATIONS

2.7 BACKFILLING BEHIND RETAINING WALLS IS TO BE DONE BEFORE WRITTEN APPROVAL. IS GIVEN BY THE STRUCTURAL ENGINEER, WHERE APPLICABLE. BACKFILLING SHALL BE DONE SMALL TROUSERS, ON BOTH SIDES OF WALLS TO MINIMIZE THE RELATIVE HEIGHT DIFFERENCE IN SOIL LEVELS

3. CONCRETE

3.1 ALL CONCRETE/REINFORCEMENT WORK SHALL BE DONE ACCORDING TO SANS 2001-IC-12012

3.2 THE CONTRACTOR SHALL, PRIOR TO THE COMMENCEMENT OF THE PROJECT, SUBMIT A METHOD STATEMENT TO THE ENGINEER DESCRIBING ALL CASTING PROCEDURES, CONSTRUCTION METHODS, POSITIONS OF CONSTRUCTION JOINTS AND OTHER ASPECTS ON WHICH THE ENGINEER'S APPROVAL IS REQUIRED

3.3 THE CONTRACTOR MUST CO-ORDINATE ALL SERVICE DRAWINGS AND POSITIONING OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, WATER SUPPLY, ELECTRICAL, MECHANICAL AND OTHER SERVICES

3.4 THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE STRUCTURAL ENGINEER BEFORE ANY OPENINGS OR SERVICES WHICH ARE NOT INDICATED ON THE DRAWINGS MAY BE INTRODUCED THROUGH ANY STRUCTURAL ELEMENT

3.5 THE CONCRETE COVER TO REINFORCEMENT IS AS FOLLOWS (EXCEPT WHERE OTHERWISE NOTED ON DRAWING SCHEDULES):

- COLUMNS: 40 mm
- SLAB EDGE BEAMS: 40 mm
- SLAB INTERIOR BEAMS: 30 mm
- RETAINING WALLS: 50 mm

3.6 BEAM DIMENSIONS ARE GIVEN AS A X B WHERE:

- A = DEPTH OF BEAM (SLAB THICKNESS)
- B = WIDTH OF BEAM

3.7 HIGHER THAN THAT OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED. THE SIZE AND FIXING METHOD OF COVER BLOCKS SHALL BE DISCUSSED IN ADVANCE WITH THE ENGINEER

3.8 THE USE OF KICKERS FOR COLUMNS OR WALLS HAS TO BE APPROVED BY THE ENGINEER. KICKERS HAVE TO BE CONSTRUCTED USING A NON-SHINKING MATERIAL WITH COMPRESSIVE STRENGTH IN EXCESS OF THAT SPECIFIED FOR THE WALL OR COLUMN AND WITHOUT ANY REQUIREMENTS FOR CURING

3.9 THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR THE SUFFICIENCY OF CORROSION OR TEMPORARY WORKS WHICH INCLUDES FORMWORK, THE MAIN REINFORCEMENT IS TO APPOINT A COMPETENT PERSON TO DESIGN ALL FORMWORK AND SUPPORT WORK. THE ENGINEER IS TO BE CONTACTED IF ANY LOADING OR REMOVAL OF FORMWORK IS REQUIRED. THE CONTRACTOR SHALL SUBMIT A DESIGN IN WRITING TO THE ENGINEER FOR APPROVAL. THE DESIGN SHALL BE APPLICABLE TO CONCRETE WALLS WHICH ARE NOT FULLY SUPPORTED OVER THEIR ENTIRE LENGTH AND THEREFORE ACTING AS DEEP BEAMS

3.10 PROPPING OF SLABS, ALL NEWLY CAST DECKS TO BE FULLY PROPPED UNTIL THE SPECIFIED 28 DAY STRENGTH HAS BEEN ACHIEVED & ALL OF THE SUPPORTING ELEMENTS HAS BEEN CONSTRUCTED

3.11 A 20 x 20 CHAMFER SHALL BE PROVIDED ON ALL VISIBLE CORNERS OF CONCRETE IN COLLABORATION WITH THE ARCHITECT

3.12 SEE ARCHITECT'S DRAWINGS FOR DETAIL AND POSITIONS OF V-JOINTS AND DWP JOINTS IN CONCRETE

3.13 SEE ARCHITECT'S DRAWINGS FOR DETAIL AND POSITIONS OF RAIN WATER PIPES IN CONCRETE

3.14 THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT FORMWORK FROM FLOATING OR FROM MOVING HORIZONTALLY DURING CASTING OF CONCRETE

3.15 ALL MIX DESIGNS, WHEN PREPARED OR NOT, TO BE PROVIDED BY MEANS OF A TRIAL MIX ON RELIABLE PREVIOUS RESULTS AND TO BE AGREED BY THE ENGINEER. CONCRETE TESTING TO COMPLY WITH SANS 2001-IC-1 C 5.1, CURE CRUSHING TESTS REQUIRED BY THE ENGINEER SHALL BE AS FOLLOWS

- SET OF 3 CUBES TO BE CRUSHED 7 DAYS AFTER CASTING
- SET OF 3 CUBES TO BE CRUSHED 28 DAYS AFTER CASTING
- SET OF 3 CUBES SHALL BE TAKEN EVERY 10 TO 20 m³, THEREAFTER AN ADDITIONAL SET OF 6 CUBES IS REQUIRED FOR EVERY 50 m³ OR PORTION THEREOF

3.17 SPECIFICATION FOR CONCRETE MIX DESIGN

- SAND TO COMPLY WITH SANS 1085-2006
- CEMENT TO COMPLY WITH SANS 553-2005
- ADJUVANT SIZE: 18mm

3.18 COMMERCIALY-SOURCED CONCRETE

3.19 WHERE CONCRETE IS SUPPLIED BY A COMMERCIAL SOURCE OUTSIDE THE DIRECT CONTROL OF THE ENGINEER, THE CONCRETE SUPPLIER SHALL ENSURE CONTROL, TESTING IN ACCORDANCE WITH THE SPECIFICATION. COMMERCIAL CONCRETE SUPPLIERS SHALL ENSURE THAT THE PLANT, MEASURING, MIXING, TRANSPORT AND ASSOCIATED PROCESSES ARE AUDITED BY A RECOGNIZED INDEPENDENT BODY IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS FOR COMMERCIAL CONCRETE

- ISO 9001 (QUALITY MANAGEMENT)
- ISO 14001 (ENVIRONMENTAL MANAGEMENT)
- ISO 28001 (SAFETY MANAGEMENT)
- SANS 5528 (SANS 870), ISO 22865-2 OR ISO 9001 (QUALITY MANAGEMENT SYSTEM FOR CONCRETE PRODUCTION)

3.20 THE ADULT SHALL BE VALID FOR A PERIOD OF NO GREATER THAN 12 MONTHS

3.21 CURING SHALL BE TO CL 4.7.13 OF SANS 2001-IC-1

3.22 VERTICALLY TO BE APPLIED TO TOP OF ELEMENT (EXCLUDING COLUMNS) WITHIN 8 HOURS OF START OF CASTING. CONCRETE ELEMENTS TO BE CURED FOR SANS 2001-IC-1 (7 DAYS MINIMUM IN TOTAL CONCRETE CURING TO BE DONE NEITHER OF THE FOLLOWING METHODS

3.23 RETAIN FORMWORK IN PLACE FOR AT LEAST 7 DAYS

3.24 SLAB SURFACE BEING

3.25 POURING OF WATER, SPRINKLING OR SPRAYING WATER

3.26 COVERING WITH SAND AND COMBING WITH PLASTIC SHEETING AND HELD IN PLACE SO NOT TO DAMAGE CONCRETE

3.27 COVERING WITH SAND AND COMBING WITH PLASTIC SHEETING AND HELD IN PLACE SO NOT TO DAMAGE CONCRETE

3.28 WRAPPING WITH PLASTIC MEMBRANE

3.29 CURING COMMENCEMENT DATE AND END DATE TO BE INDICATED IN PROJECT PROGRAM TO COMPLY WITH THE CURING METHODS

3.30 NO CASTING OF CONCRETE ON RAINFALL OR ON DAYS WHEN WINDS WITHOUT WRITTEN APPROVAL OF THE RESIDENT ENGINEER

3.31 ALL CONCRETE WORK TO BE COMPLETED PROPERLY

3.21 DEFECTIVE CONCRETE & REBELLIOUS WORKS

3.22 IF THE WORKMAN IS NOT SURE OF THE QUALITY OF THE WORK, HE SHALL REPORT TO THE ENGINEER

3.23 NO REBELLIOUS WORKING MAY BE DONE WITHOUT WRITTEN CONSENT FROM THE ENGINEER

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4. REINFORCEMENT:

4.1 ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-IC-12012

4.2 NO HEATING, FLAME CUTTING OR WELDING OF REINFORCEMENT SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. NO BENDING OF COLUMN/WALL STARTER BARS

4.3 REINFORCING BARS AT CONSTRUCTION JOINTS SHALL BE BENT OUT WITH A SUITABLE PLE SO THAT NO KINK IS FORMED IN THE BARS

4.4 INSTALLATION OF BARS SHALL COMPLY WITH THE FOLLOWING:

- BENDING OF BARS SHALL BE DONE AT AN ANGLE OF 90 DEGREES
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NOTES

GENERAL NOTES:

1. THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1020 STANDARD SPECIFICATIONS.

2. THE CONTRACTOR MUST OBTAIN A QUALITY ASSURANCE MANAGEMENT SYSTEM APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. THE SYSTEM MUST BE PERSONAL A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL OF ANY INSPECTIONS.

3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL AUTHORITY AND THE DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND FORESTRY BEFORE COMMENCING WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.

4. WORK TO BE DONE TO FROSTED DIMENSIONS ONLY.

5. INSPECTOR'S SIGNATURE AND WORKS REQUIRED SHALL ONLY BE USED WHEN THE WORK IS COMPLETED AND APPROVED BY THE ENGINEER.

FOUNDATION NOTES:

1. FOUNDATIONS TO BE CONSTRUCTED TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.

2. THE ENGINEER MAY ORDER IN SITU LOAD TESTS TO BE DONE TO ASSESS THE BEARING CAPACITY OF THE FOUNDATION.

3. FOUNDING SURFACE.

4. ASSIGNED SAFE BEARING CAPACITY OF FOUNDING MATERIAL IS 750 kPa.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH SABS 12000.

2. CONCRETE CLASS TO BE AS FOLLOWS:

3. BLINDING

4. STANDARD REINFORCED CONCRETE

5. THE CONTRACTOR MUST COMPENSATE ALL SURFACE DRAINAGES REQUIRED FOR TANKING, WATER, OVERFLOW, DRAINAGE FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES TO BE CAST INTO THE CONCRETE.

6. THE CONCRETE COVER TO REINFORCEMENT IS AS FOLLOWS:

7. THE STRENGTH OF THE CONCRETE COVER BLOCKS SHALL EXCEED THE STRENGTH OF CONCRETE OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE CAST.

8. THE FORMATION OF PLASTIC SHRINKAGE CRACKS IN NEWLY Laid CONCRETE.

9. CONCRETE SHALL BE CURED TO AN APPROVED SPECIFICATION DOES NOT AFFECT ADHESION OF FINISHES.

10. NO BRICK WALLS MAY BE BUILT ON FLOOR SLABS BEARING WALLS. THE BEARING WALL ELEMENT HAS REACHED THE 28 DAY STRENGTH.

11. ALL WORK SHALL BE APPROVED BY THE ENGINEER.

12. 5% OF CONCRETERS TO BE FORMED IN ALL EXPOSED CONCRETE CORNERS.

13. 250 MICRON OPC TO BE PLACED UNDER ALL SURFACE BESS.

CLIENT

DEVELOPMENT BANK
OF SOUTHERN AFRICA

DBSA

Development Bank
of Southern Africa

1258 LEVER ROAD
THE BAYVIEW
MIDRAND
1685

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PROJECT CONSULTANT

PROJECTNEERS
&
PROJECTMANAGERS

BUILDING 2, 1ST FLOOR, THORNTILL OFFICE PARK
94 BEKKER ROAD, MIDRAND, 1685

REVISIONS

REV. NO.	DATE	DESCRIPTION
R00	2021-10-25	ISSUED FOR DETAIL DESIGN

DRAWING CHECKS

B. TSJULUWA

TSJULUWA@PROJECTNEERS.COM

WWW.PROJECTNEERS.COM

APPROVAL AUTHORITY

B. TSJULUWA

2021-10-25

PROJECT NAME

PROPOSED PROVISION OF ADDITIONAL SCHOOL, REPAIRS AND MAINTENANCE AT GORDON PARK PRIMARY SCHOOL, ON BEHALF OF THE NORTH WEST DEPARTMENT OF EDUCATION (NW DED)

PROJECT SITE

GORDON PARK PRIMARY SCHOOL, MADIBENG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

SHEET TITLE

STANDARD DRAWING NOTES

DRAWING NUMBER

RFP 268/2019

DATE NUMBER

2020/2003

DRAWING NUMBER

2020/2003

ISSUED FOR

2021-10-25