



FIRST FLOOR TOP REINFORCEMENT LAYOUT PLAN

SCALE 1:100

<div>Logo: KEON CONSULTING ENGINEERS, TECHNODS DESIGNS, J & V</div> <div>TECHNO DESIGNS ENGINEERING, KEON CONSULTING ENGINEERS</div> <div>32 Dane Street Glen Austin, 5th Avenue Office Park, 4th St Avenue Newstead, Port Elizabeth, 6011, TEL: 031 201 8817, EMAIL: engineer@technodesigns.co.za, OFFICES: JOHANNESBURG, WEBSITE: www.technodesigns.co.za</div>		<div>Client: Johannesburg Water</div> <div>11 Neame Plaza Street, Newstead, Johannesburg</div>	<div>NOTES: 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.</div> <div>Scale: 1:100 ON ORIGINAL</div> <div>0 5 10 15 20 30 40 500MM</div> <div>Engineer: T. Chikwata PE Eng (201400909)</div> <div>Drawn By: M. Mubumba, Designed By: T. Mapumo, Checked By: T. Chikwata</div> <div>Signature: [Signature], Date: October 2024</div>	<div>CONCRETE NOTES:</div> <div>1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.</div> <div>2. ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.</div> <div>3. REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.</div> <div>4. THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.</div> <div>5. SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.</div> <div>6. STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S 10200 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.</div> <div>7. CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, R/WPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEER'S WRITTEN APPROVAL.</div> <div>8. FOUNDATIONS</div> <div>9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.</div> <div>10. CAST</div> <div>11. NO FOUNDATIONS ARE TO BE CAST IN PL. MATERIAL. A 50mm x 100mm LAYER OF 10MPa CEMENT FILL CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.</div> <div>12. ALL REINFORCEMENT IS TO BE MADE GOOD WITH 10MPa x 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.</div> <div>13. BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATION.</div> <div>14. ALLOWABLE BEARING CAPACITY UNDER CONCRETE BASES = 150kPa.</div> <div>15. STRIP FOOTINGS = 100kPa.</div> <div>16. CONCRETE</div> <div>17. CONCRETE CHARACTERISTIC 28 DAY STRENGTH: 25MPa/15mm.</div> <div>18. STRIP FOOTINGS: 25MPa/15mm.</div> <div>19. TOP MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.</div> <div>20. SUSPENDED SLABS & BEAMS: 300mm/19mm.</div> <div>21. COLUMNS: 300mm/19mm.</div> <div>22. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE OBTAINED TO ENGINEER FOR PERMANENT RECORD.</div> <div>23. MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.</div> <div>24. ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.</div> <div>25. ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 12000 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II.</div> <div>26. SETTING OUT AND GENERAL</div> <div>27. CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMELY TO ENGINEER FOR PERMANENT RECORDS, COMMENT AND APPROVAL.</div> <div>28. REINFORCEMENT</div> <div>29. CHARACTERISTIC STRENGTH: MILD STEEL: 250N/mm2, HIGH YIELD STEEL: 450N/mm2.</div> <div>30. 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.</div> <div>31. LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.</div> <div>32. MESH REINFORCING TO BE 245 TO BE PLACED IN SLAB SURFACE BEDS.</div> <div>33. TOP MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.</div> <div>34. 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 SIGN OFF FOR PERMANENT RECORD.</div> <div>35. COVER TO REINFORCEMENT:</div> <div>36. STRIP FOOTINGS: 50mm.</div> <div>37. COLUMNS AND WALLS: 50mm.</div> <div>38. SUSPENDED SLABS: 50mm.</div> <div>39. GUSTING</div> <div>40. SUSPENDED BEAMS: 30mm.</div> <div>41. CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.</div> <div>42. FORMWORK AND PROPPING</div> <div>43. STRIPPING TIMES FOR: 1. DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.</div> <div>44. COLUMN AND WALL SHUTTERING: 1. DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.</div> <div>45. BEAM SHUTTERING: 1. DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.</div> <div>46. FLAT SLABS:</div> <div>47. STRIPPING TIMES FOR: 1. DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.</div> <div>48. CANTILEVER SLABS AND BEAMS: 21 DAYS.</div> <div>49. (SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMELY) TO ENGINEER FOR APPROVAL.</div> <div>50. SETTING OUT AND GENERAL</div> <div>51. CONCRETE FINISHES UNLESS NOTED OTHERWISE: COLUMNS AND WALLS: OFF SHUTTER BEAMS AND SLAB SOFFIT: OFF SHUTTER TOP OF SUSPENDED SLABS: STEEL PLAT SURFACE BEDS: POWER FLAT SLAB SURFACE BEDS OF GROUND BEAMS TO BE FLUTTERED.</div>	<div>Refer To Drawing No:</div> <div>Project: JW14468- FEMALE ABLUTION STAND BY FACILITY</div> <div>Description: FIRST FLOOR TOP REINFORCEMENT LAYOUT</div> <div>Issued For: TENDER</div> <div>Size: A1, Scale: As Shown, Sheet No: 1 OF 1, Original Date: October 2024</div> <div>Project No: JW14468, Drawing No: STRUCT-18, Revision: 0</div>
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