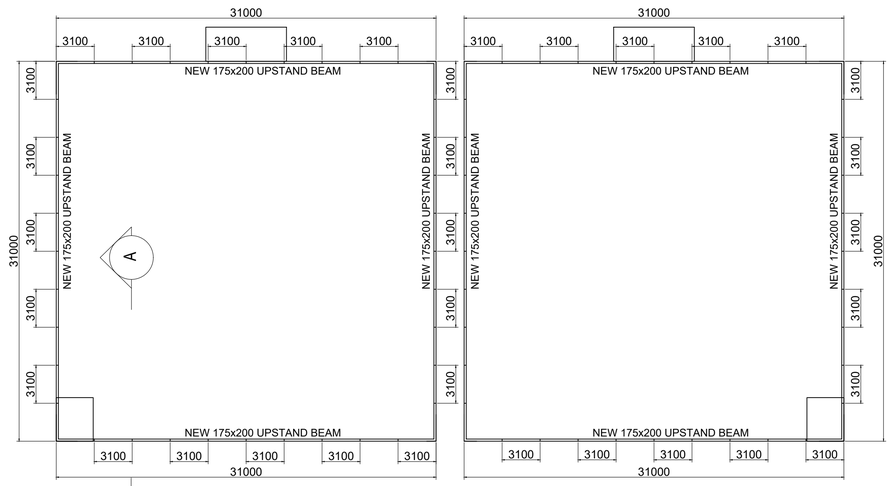
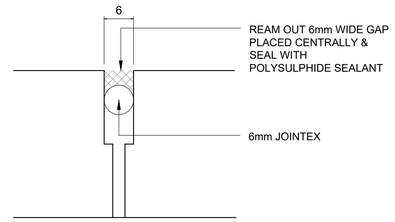


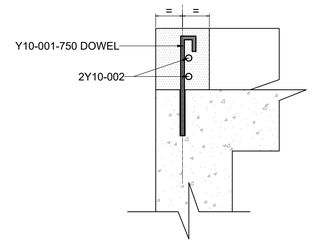
PLAN - REINFORCED CONCRETE UPSTAND BEAM LAYOUT

1:250



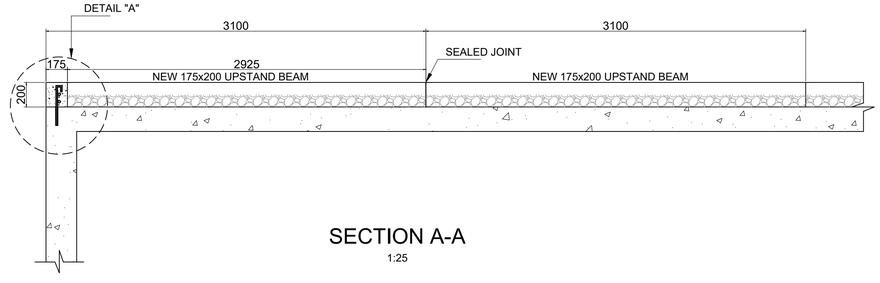
SEALED JOINT DETAIL

N.T.S.



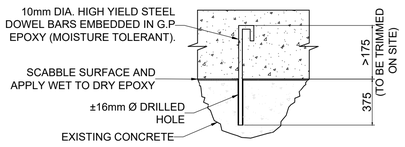
TYPICAL REINFORCEMENT

1:25



SECTION A-A

1:25



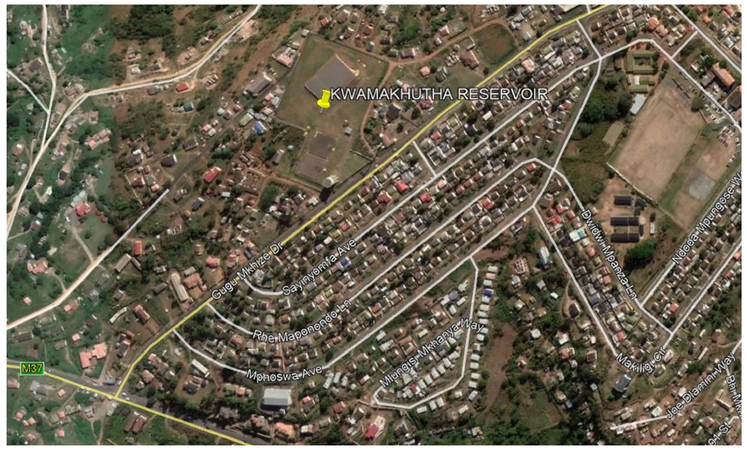
DETAIL "A" (DOWEL BAR)

1:10

Members	Bar Mark	Type & Size	No. of Bars	No. of Mbrs	Total Bars	Cutting Length	Shape Code	A	B	C	D	E/R	kg
175x200 R.C UPSTAND BEAM	001	Y10	4	80	320	750	38	125	550				
	002	Y10	2	80	160	3000	20	3000					

NOTES:

1. ALL WORK IN ACCORDANCE WITH THE RELEVANT SECTIONS OF SANS 1200.
2. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS.
4. FOUNDATION EXCAVATIONS TO BE APPROVED BY THE STRUCTURAL / GEOTECHNICAL ENGINEER.
5. REINFORCING TO BE CHECKED BY THE ENGINEER.
6. ALL DUCTS OR RECESSES TO BE APPROVED BY THE ENGINEER.
7. POSITION OF CONSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER.
8. CONCRETE STRENGTHS @ 28 DAYS:
   BLINDING : 15 MPa
   BASES : 30 MPa
   PILECAPS : 25 MPa
   FOOTINGS : 30 MPa
   COLUMNS : 30 MPa
   SLABS : 30 MPa
   BEAMS : 25 MPa
   WALLS : 30MPa
9. COVER TO STEEL REINFORCING:
   SLABS : 50mm
   BEAMS : 25mm
   COLUMNS : 50mm
   PILECAPS : 50mm
   FOUNDATIONS : 50mm
   GROUND BEAMS : 50mm
10. STRIPPING OF FORMWORK:
    SLABS : 10 DAYS
    BEAMS : 14 DAYS
    CUBE RESULTS TO BE APPROVED PRIOR TO STRIPPING OF FORMWORK.
11. ALL SHARP EXPOSED EDGES TO BE CHAMFERED 20 x 20mm. ALL EXPOSED CONCRETE SURFACES SHALL HAVE AN OFF-SHUTTER FINISH.
12. ALL WATERPROOFING TO ARCHITECTS DETAIL.
13. SAW CUTS ARE TO BE MADE AS SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE CUTTING BLADE (USUALLY BETWEEN 8 TO 16 HOURS AFTER CASTING).
14. ALL FOUNDATION DEPTHS TO BE CONFIRMED BY THE ENGINEER ON SITE.
15. ALL EXISTING SERVICES TO BE PROVEN PRIOR TO CONSTRUCTION.
16. FOUNDATIONS ARE SUBJECT TO ALTERATIONS AS EXCAVATIONS PROCEED.



LOCALITY SKETCH

SCALE : NTS

ETHEKWINI WATER AND SANITATION

WATER DESIGN BRANCH

eThekwini Municipality

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

LEGEND

EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW.

NEW WATER MAIN & VALVES
SEWERS AND M.H'S
STORM WATER DRAINS AND M.H'S
WATER MAINS AND VALVES
ELECTRICITY CABLES
TELKOM CABLES
OIL PIPELINES

Revision	Date	Description
0	15.08.2019	ISSUE FOR PRELIMINARY

NOTE: No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed:

Date Engineer

NORTH POINT

UNDERGROUND SERVICES CHECKED -

SERVICE	DATE	SIGNATURE
S.W DRAINS		
SEWERS		
WATERMAINS		
TELKOM CABLES		
ELECTRIC CABLES		
S.A.R CABLES		
E.S.C CABLES		
OIL PIPE LINE		

NOTE: Only underground services affected by new construction are shown. Care must be taken during excavations for road foundations, trenches etc., to avoid damage to underground services such as sewers,drains,cables,watermains and connections. Wherever possible these must be located before work begins.

Contract No. PSC 2016/034; PSC 2016/035

Project No. 19684

Planning Unit

Ward No.

Project Title

REHABILITATION OF WATER STORAGE FACILITIES AND ASSOCIATED WORKS

Drawing Title

KWAMAKHUTHA RESERVOIR: CONCRETE AND REINFORCEMENT LAYOUT AND SECTIONS FOR NEW 175X200 R.C. UPSTAND BEAM

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Scale : AS SHOWN

Designed : RT | Date : 15.08.2019

Checked : VU | Drawn: LR

Area Engineer

Manager (Water Design)

Deputy Head (Engineering)

E. MSWELI - Head (W & S)

19648_P_300_S01_R0_LR Drawing No. | S01 Sheet | 0 Rev.