



### NOTES:

#### 1. GENERAL NOTES

- 1.1 THE CONTRACTOR SHALL CHECK ALL PROJECT DIMENSIONS ON SITE BEFOREHAND. ANY DIFFERENCES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
- 1.2 PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY BE USED WITH THE ENGINEER'S PRIOR APPROVAL.
- 1.3 ALL DIMENSIONS ARE TO BE CHECKED WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES BROUGHT TO THE ENGINEER'S ATTENTION BEFORE ANY CONSTRUCTION WORK COMMENCES.
- 1.4 ALL SANS SPECIFICATIONS MENTIONED IN THE NOTES ON THIS DRAWING AND IN THE PROJECT SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES, EITHER AS HARD COPIES OR IN ELECTRONIC FORMAT.

#### 3. CONCRETE

- 3.1 ALL CONCRETE WORK SHALL BE DONE ACCORDING TO SANS 1200G.
- 3.2 THE CONCRETE STRENGTH OF ALL ELEMENTS IS 25 MPa / 19 mm.
- 3.3 ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
- 3.4 THE CONTRACTOR MUST CO-ORDINATE ALL SERVICES DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR, ELECTRICAL, MECHANICAL AND OTHER SERVICES.
- 3.5 THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE ENGINEER BEFORE ANY OPENINGS OR SERVICES WHICH ARE NOT INDICATED ON THE DRAWINGS MAY BE INTRODUCED THROUGH ANY STRUCTURAL ELEMENT.
- 3.6 THE CONCRETE COVER TO REINFORCEMENT IS AS FOLLOWS (EXCEPT WHERE OTHERWISE NOTED ON BENDING SCHEDULES) FOUNDATIONS: 40 mm
- 3.7 A 20 mm x 20 mm CHAMFER SHALL BE PROVIDED ON ALL VISIBLE CORNERS OF OFF-SHUTTER CONCRETE.

#### 4. REINFORCEMENT

- 4.1 ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200G.
- 4.2 THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS NOTICE TO THE ENGINEER FOR STEEL INSPECTIONS THAT ARE REQUIRED.
- 4.3 NO HEATING, FLAME CUTTING OR WELDING OF REINFORCEMENT SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 5. STRUCTURAL STEELWORK:
- 5.1 ALL STRUCTURAL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SANS 1200 H.
- 5.2 WELDS SHALL CONFORM TO SANS 0167 1984 AND 044 SPECIFICATIONS.
- 5.3 ALL WELDING TO BE 6MM CONTINUOUS FILLET WELD UNLESS OTHERWISE SPECIFIED.
- 5.4 ALL WELDS TO BE DONE WITH E70XX ELECTRODES UNLESS OTHERWISE SPECIFIED.
- 5.5 ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE SHOP DRAWINGS COMMENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 5.6 A COMPLETE SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION COMMENCES. ENGINEER TO APPROVE DESIGN INTEND ONLY. THIS INCLUDES THE MEMBER SIZES ONLY, BUT EXCLUDES DIMENSIONS, CLEATS, BOLTS AND GUSSETS.
- 5.7 ALL HOT ROLLED AND CHS STRUCTURAL STEELWORK SHALL BE GRADE 300W.
- 5.8 ALL STRUCTURAL STEEL WORK MEMBERS AND BOLTS TO BE GALVANIZED.
- 5.9 WHERE TEMPORARY BRACING OR PROPPING IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL (WHERE NECESSARY) OF SUCH SUPPORTS. IF SPLICES IN TRUSSES ARE REQUIRED DUE TO TRANSPORT, PROPOSALS OF THIS SHALL BE SUBMITTED TO THE ENGINEER AT AN EARLY STAGE FOR WRITTEN APPROVAL.
- 5.11 THE CONTRACTOR SHALL PRODUCE EVIDENCE ACCEPTABLE TO THE ENGINEER THAT WELDING PROCEDURES TO SANS 2001-C51, CI.4.4.3 AND WELDERS HAVE BEEN QUALIFIED IN ACCORDANCE WITH SANS 2001-C52, Cl.5.2.
- 5.12 WELDS SHALL CONFORM TO SANS 10167:2004, SANS 44:2009 AND AWS D1.1 SPECIFICATIONS: WHERE NO WELD SIZES ARE SHOWN, THE MINIMUM WELD SIZE SHALL BE 6 mm. THE CONTRACTOR SHALL DESIGN AND DETAIL CONNECTIONS TO TRASFER THE FULL FORCE CAPACITY OF THE CONNECTED MEMBERS THROUGH THE CONNECTION.
- 5.14 THE CONTRACTOR SHALL, AT THE COMMENCEMENT OF THE PROJECT, ACQUAINT HIMSELF WITH THE AVAILABILITY AND DELIVERY TIME OF THE PRODUCTS AND STEEL PROFILES SPECIFIED ON THE DRAWINGS SO THAT SUCH MATERIAL CAN BE ORDERED WELL IN ADVANCE.
- 5.16 QUALITY CONTROL ON WELDING SHALL BE AS FOLLOWS:
- \* ALL WELDS SHALL BE INSPECTED USING VISUAL AIDS,
- \* ALL BUT WELDS: 100% ULTRASONIC NDT. \* ALL FILLET WELDS: ULTRASONIC NDT.

### **CONSULTANT**

**CENTURION** 263A West Avenue PO BOX 3173, Pretoria, 0001 Gauteng, South Africa +27 (0) 12 421 3500 tel

www.aecom.com

+27 (0) 12 421 3501 fax Reg No. 1966/006628/07

#### **PROJECT**

# **IDC BULK WATER**

**BUILDING & MAINTENANCE FACILITIES MANAGEMENT** 19 FREDMAN DRIVE, SANDTON, 2196

### CLIENT

IDC



Industrial Development Corporation

FOR GENERAL NOTES; REFER TO DRAWING:

ATTENTION IMMEDIATELY

- 2. DRAWINGS ARE NOT TO BE SCALED. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE BROUGHT TO THE ENGINEER / ARCHITECT'S
- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SCHEDULES AND SPECIFICATIONS RELATED TO THIS PROJECT. 4. ALL BUILDING WORK AND MATERIALS ARE TO COMPLY WITH LOCAL
- AUTHORITY'S REQUIREMENTS AND ARE TO BE IN ACCORDANCE WITH SANS 10400 NATIONAL BUILDING REGULATIONS . ALL OPENINGS TO BE MEASURED ON SITE BEFORE MANUFACTURING OF
- DOORS, WINDOWS, GATES, LOUVRES, ROLLERSHUTTER DOORS, SHOPFRONTS ETC.
- SPECIALIST TO CHECK & CONFIRM ALL WINDOWS & SHOPFRONT BEFORE MANUFACUTRER. . ALL FINISHES AS PER SPECIFICATION DOCUMENT

## **ISSUE / REVISION**

I/R	DATE	DESCRIPTION	ISS BY

# **DRAWING CHECKS**

DESIGNED BY	W. J. OBERHOLZER	N/A
DRAWN BY	E. HUYSAMEN	N/A
DESIGNED CHECKED BY	S. ALLY	N/A
DRAWING CHECKED BY	W. J OBERHOLZER	N/A

### **APPROVAL CONSULTANT**

NAME	W. J OBERHOLZER	DATE	2019-01-28
PROF REG. No.	201270058	SIGNATURE	

THE MASTER HELD AT THE **AECOM CENTURION OFFICE** BEARS THE ORIGINAL SIGNATURE OF APPROVAL

# **BUILDING/FACILITY/ZONE**

OVERALL BUILDING SITE

## **PROJECT NUMBER**

# 60586065

## SHEET TITLE

SECTIONAL STEEL TANK DETAILS & NOTES IDC 1 AND IDC 2

# **DISCIPLINE**

WET SERVICES

## **DRAWING NUMBER**

PROJECT ORIG. BS CODE LEVEL TYPE ROLE SERIAL NO. STAT. REV 60586065-ACM- 00 - 00-DR-**PH- 080001**-T- 0

**SCALE** 

D:DRAFT IP:PRELIMINARY / T:TENDER / F:FINAL / C:CONSTRUCTION / A:AS-BUILT, RECORD / R:REPORT