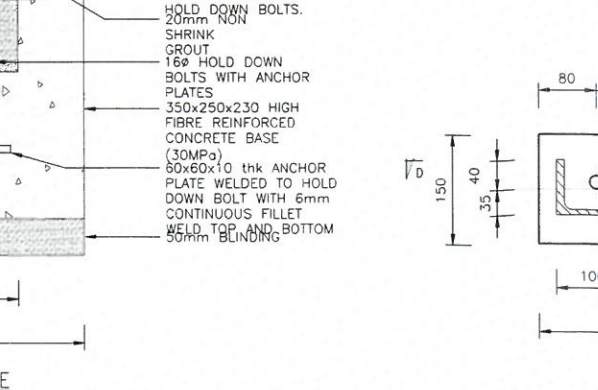
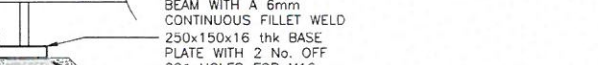
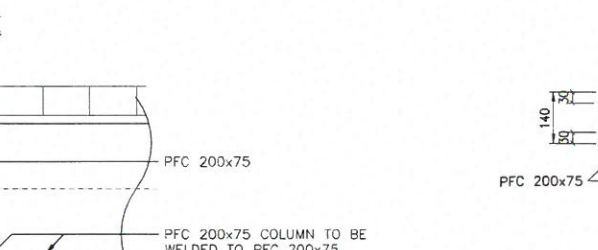
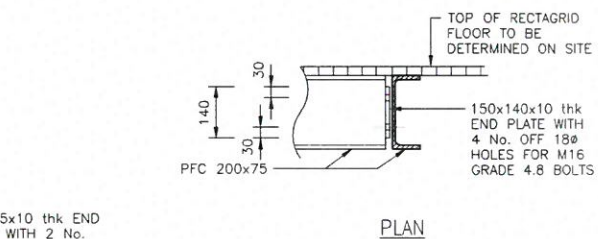
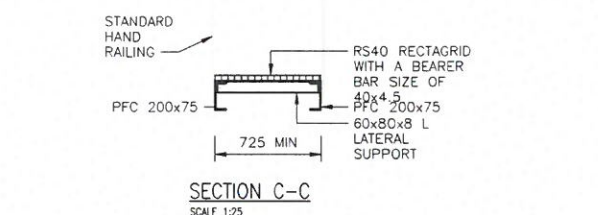
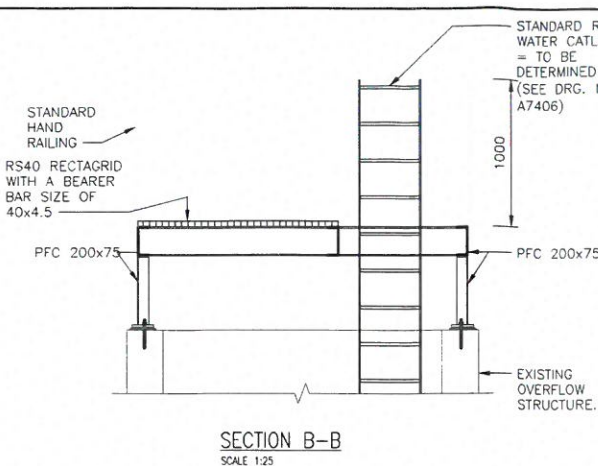
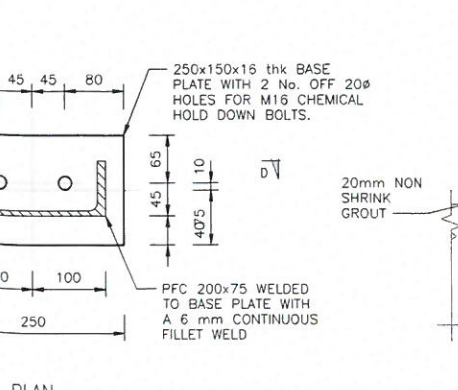
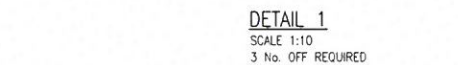
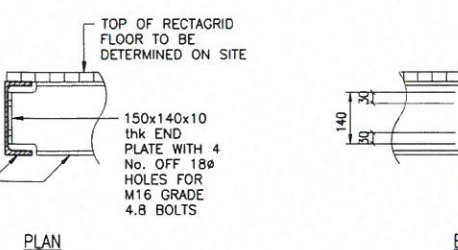
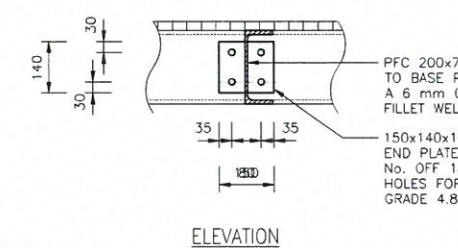
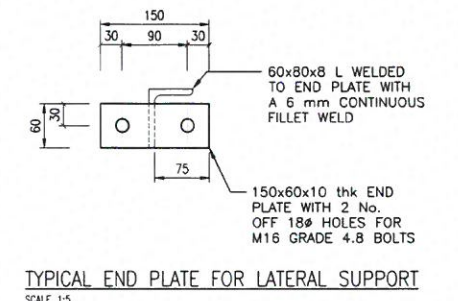
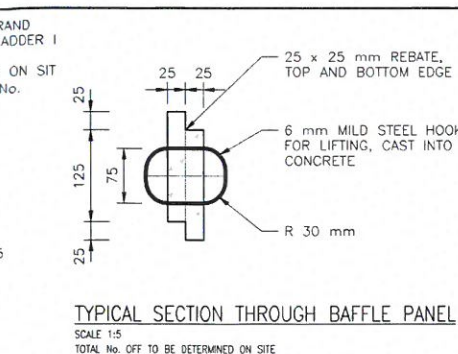


**WALKWAY FOUNDATION DETAIL**  
SCALE 1:5



**TYPICAL BASE PLATE DETAIL**  
SCALE 1:5



**TYPICAL BASE PLATE DETAIL**  
SCALE 1:5

## STRUCTURAL STEEL NOTES:

- ALL STEEL SECTIONS TO BE GRADE S355JR STEEL AND SHALL COMPLY WITH SABS 1431
- ALL STRUCTURAL STEEL WORK SHALL BE INSPECTED, FABRICATED AND ERECTED IN ACCORDANCE WITH SABS 1200 H
- ALL WELDS SHALL CONFORM TO SANS 10162: PART 1 AND SANS 2001-CSI
- ELECTRODES FOR ALL WELDS SHALL BE APPROVED BY THE ENGINEER
- ALL WELDS TO BE METAL ARC WELDING EXECUTED BY QUALIFIED WELDERS, SUPPORTING DOCUMENTATION TO BE SUBMITTED TO THE CIVIL ENGINEER
- ALL FILLET WELDS SHALL BE SIZE 6mm AND ALL GROOVE WELDS TO HAVE A GAP OF 2mm. BUTT WELDS AND SPLICES SHALL DEVELOP THE FULL STRENGTH OF THE JOINED ELEMENTS.
- ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE COMMENCEMENT OF ANY WORK AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- STRUCTURAL BOLTS SHALL BE GRADE 4.8 UNLESS OTHERWISE STATED
- WHERE TEMPORARY BRACING OR PROPPING IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL OF SUCH SUPPORTS.
- WORKSHOP DRAWINGS OF STRUCTURAL STEEL WORK TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. DRAWINGS SHALL BE CHECKED FOR DESIGN COMPLIANCE. NO DIMENSIONAL CHECKS WILL BE DONE. ALLOW 7 WORKING DAYS FOR APPROVAL.
- ERECTION METHOD STATEMENT TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- CERTIFICATE FROM THE STEEL MANUFACTURER VERIFYING STEEL GRADE TO BE SUBMITTED TO THE ENGINEER.
- FLOORING SHALL BE RECTAGRID TYPE RS40 WITH 40 x 4.5 BEARER BARS BANDED ON ALL SIDES AND CUT OUTS AND FIXED TO STEEL FRAMEWORK WITH STANDARD GALVANISED CLIPS 130 x 8 thk. KICKPLATES ON ALL OPEN EDGES
- HANDRAILS AND STANCHIONS SHALL BE "ANDREW MENTIS" BALL TYPE GALVANISED OR APPROVED EQUIVALENT ALL HANDRAIL STANCHIONS TO BE SIDE MOUNTED "GOOSENECK" TYPE STANCHIONS ARE NOT PERMITTED
- ALL PARTS TO BE CLEARLY MARKED FOR ERECTION PURPOSES
- ALL STEELWORK TO BE HOT DIPPED GALVANISED TO SABS 763 - 1977 (HEAVY DUTY) BY A SABS ACCREDITED GALVANISER

DRG No. RA\_22597

## GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWINGS
- STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH SANS SPECIFICATIONS AND RAND WATER SPECIFICATIONS.
- ALL CONCRETE MIXES AND METHOD STATEMENTS TO BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION
- FOUNDATION EXCAVATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING OF THE BLINDING LAYER
- ALL LEVELS AND DIMENSIONS WILL BE CHECKED ON SITE PRIOR TO CONSTRUCTION

## CONCRETE:

- CONCRETE STRENGTH REQUIRE AT 28 DAYS:  
a) STRUCTURAL CONCRETE - 30 MPa  
b) BLINDING - 15 MPa
- CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 1200G
- STRIPPING OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SABS 1200G
- BAFFLE PANELS SHALL BE CONSTRUCTED WITH FIBRE REINFORCED LIGHT WEIGHT STRUCTURAL CONCRETE OF A DENSITY NOT EXCEEDING 1600 KG/M3 AND A CHARACTERISTIC COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS
- A SAMPLE SHALL BE PREPARED FROM EACH BATCH OF CONCRETE AND SENT TO AN APPROVED INDEPENDENT LABORATORY FOR COMPRESSIVE AND TENSILE STRENGTH TESTING, RESULTS TO BE SUBMITTED TO THE ENGINEER.

THIS IS A TYPICAL DRAWING INDICATING MINIMUM DESIGN REQUIREMENTS, THE CONTRACTOR IS TO ENSURE THAT ALL STEEL FABRICATION SUITS THE SITE CONDITIONS.

## REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION
A	03.03.2015	LN	LN	FOR INFORMATION

## REFERENCE DRAWINGS

NUMBER	TITLE
22596	DECANTING TOWER DETAIL



BOX 1127  
JOHANNESBURG  
2000  
TEL: 011-682-0911

RAND WATER APPROVES THE DESIGN REQUIREMENTS ONLY. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN  
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DRAWN BY	K.S	APPROVED	Pr Eng
CHECKED		REG. No.	
DATE	11.12.2014	DATE	

PANFONTEIN WWTW  
CIVIL WORK

NEW SLUDGE DRYING BEDS

TYPICAL STEEL PLATFORM FOR ACCESS  
TO DECANTING TOWERS

STATION	WKS	DOC. TYPE	S
AS SHOWN			

DRG No. RA\_22597