

GENERAL

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORKMANSHIP CONFORM WITH THE DETAILS AND SPECIFICATIONS SHOWN ON THE DRAWING AND ALL RELEVANT SABS SPECIFICATIONS, IRRESPECTIVE OF WHETHER THE ENGINEER HAS INSPECTED THE WORKS ON SITE OR NOT.
- ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND CORRELATED WITH THE ENGINEER'S DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- NO SCALING WITH SCALE RULER FROM THE DRAWING IS PERMITTED. THE CONTRACTOR MUST ENSURE THAT HE GETS THE CORRECT DIMENSIONS FROM THE ENGINEER BEFORE CONSTRUCTION COMMENCES.
- ALL MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE NATIONAL BUILDING REGULATIONS (ACT NO. 103 OF 1977) INCLUDING ALL AMENDMENTS, AS WELL AS TO ALL LOCAL AUTHORITY REGULATIONS.
- ALL MATERIALS MUST BE FINISHED AND FIXED STRICTLY IN ACCORDANCE WITH THE RELEVANT MANUFACTURERS' SPECIFICATIONS, UNLESS EXPLICITLY SPECIFIED OTHERWISE.
- ANY DISCREPANCIES OR UNCLEAR ITEMS MUST BE POINTED OUT TO THE ENGINEERS FOR CORRECTION OR EXPLANATION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

DRAWING NOT PRINTED TO SCALE
REDUCED FROM A0 TO A3.

ISSUE DATE	DRAWING SIZE	REVISION
01/06/2026	A1	0
PRELIMINARY		
INFO ONLY		
X FOR TENDER		
FOR CONSTRUCTION		
AS-BUILT		

CLIENT PLAN NUMBER:

LAYERS USED
FOR CONSTRUCTION

NUMBER	REVISION	DRAWING DESCRIPTION

APPROVED BY COUNCIL / CLIENT

CITY ENGINEER / CLIENT

REG. NO. DATE

AMENDMENTS CODE	BY	DATE
A.B.C. /	BY CLIENT	
TO /	BY ARCHITECT	
0.1.2. /	BY MECHANICAL OR ELECTRICAL	
Z /	BY CIVIL	
	BY OTHER ()	

DATE	INITIAL	No. CODE	REVISION DESCRIPTION
2023/03/06	B.B.	0	ISSUED FOR CONSTRUCTION
2023/04/02	B.B.	1	POSITION REVISED

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Eastern Cape	Port Elizabeth	info@bvi.co.za
Western Cape	Cape Town	info@bvi.co.za



CLIENT



PROJECT

NABABEEP WWTW

DRAWING TITLE

SCREW PUMP
HANDRAIL DETAILS

APPROVED BY BVI

ENGINEER/TECHNOLOGIST	20150516	NOV 2015
SCALE	DRAWN	J. JAFFHA

DESIGNED	CHECKED	REVISION NO.	DATE SAVED
PLAN NUMBER	REVISION NO.	DATE SAVED	

35023.01-210-01 TO 01/06/2026

GENERAL NOTES:

- ALL CIVIL WORKS TO COMPLY WITH S.A.N.S. 1200 ACCURACY LEVEL II.
- DO NOT SCALE ANY DRAWINGS. WORK TO FIGURED DIMENSIONS ONLY.
- ANY DISCREPANCIES ON THIS DRAWING TO BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO IMPLEMENTATION OF ANY WORK.
- THE CONTRACTOR IS TO MAINTAIN A FULL SET OF DRAWINGS ON SITE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND LEVELS ON SITE.
- ALL CONCRETE WORK TO BE FOUNDED ON FILL AS SPECIFIED ON THE CONSTRUCTION DRAWING AND ARCHITECT DETAILS.
- ALL CONCRETE TO BE CLASS 25MPA / 19MM U.N.O
- MASS CONCRETE TO BE CLASS 15MPA / 19MM.
- ALL BLINDING TO BE CLASS 10MPA / 19MM, MINIMUM 50MM UNDER FOUNDATIONS U.N.O
- 25X25MM CHAMFER TO ALL EXPOSED CORNERS.
- CONCRETE COVER TO REINFORCEMENT: 30 FOUNDATIONS, 75MM BOTTOM, 50MM SIDES & TOP 30 ALL OTHER ELEMENTS 30MM
- CONCRETE SURFACES TO BE POWER FLOAT FINISHED U.N.O
- BARS TO BE BUNDLED AND TAGGED WITH BAR NO., DRG NO. AND MEMBER NO. BEFORE DELIVERY TO SITE.
- GROUTING - M-10 BED SUPERFLOW OR EQUIVALENT.
- BACKFILL MATERIAL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150MM, TO 93% MOD AASHTO (MIN) OR AS SPECIFIED ON THE CONSTRUCTION DRAWING. INSITU MATERIAL TO BE COMPACTED TO 93% MOD AASHTO AS FLOOR FILLING UNDER SURFACE BEDS.
- ALL REINFORCEMENT TO BE INSPECTED BY THE RESPONSIBLE ENGINEER PRIOR TO CASTING OF ANY CONCRETE WITH A 24 HOUR NOTICE FOR INSPECTION.
- REINFORCING STEEL TO SANS 920-1969 AS AMENDED
- ALL SURFACE BEDS TO BE CONSTRUCTED ON 250 MICRON POLYETHYLENE SHEETING.
- ALL STEELWORK TO BE GRADE 350WA. ALL BOLTS TO BE GRADE 8.8 U.N.O. ALL WELDS TO BE 6MM FILLET WELDS ALL ROUND U.N.O. ALL DIMENSIONS TO BE VERIFIED ON SITE.
- PAINT SPECIFICATION: CORROSION PROTECTION TO ALL STEEL ELEMENTS FOR ENVIRONMENTAL CLASS C3 INDUSTRIAL FOR 5 YEAR MAINTENANCE PERIOD IN ACCORDANCE WITH ISO 12944 PART 2

NOTE:

THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING CODES DURING CONSTRUCTION AS APPLICABLE: SANS 2001 CONSTRUCTION WORKS

PART CC1: CONCRETE WORKS (STRUCTURAL)
PART CC2: CONCRETE WORKS (MINOR WORKS) PART CG1:

INSTALLATION OF GLAZING IN WINDOW
PART CM1: MASONRY WALLING PART CS1: STRUCTURAL

STEELWORK
PART CT1: STRUCTURAL TIMBERWORK (FLOORING)

PART CT2: STRUCTURAL TIMBERWORK (ROOFING)

PART EM1: CEMENT PLASTER

SANS 10155 ACCURACY IN BUILDINGS GRADE II PERMISSIBLE

DEVIATION / TOLERANCE SHALL APPLY UNLESS OTHERWISE NOTED.

ONE COPY OF EACH OF THESE CODES SHALL BE KEPT ON SITE AND

SHALL BE MADE AVAILABLE TO THE ENGINEER ON REQUEST.

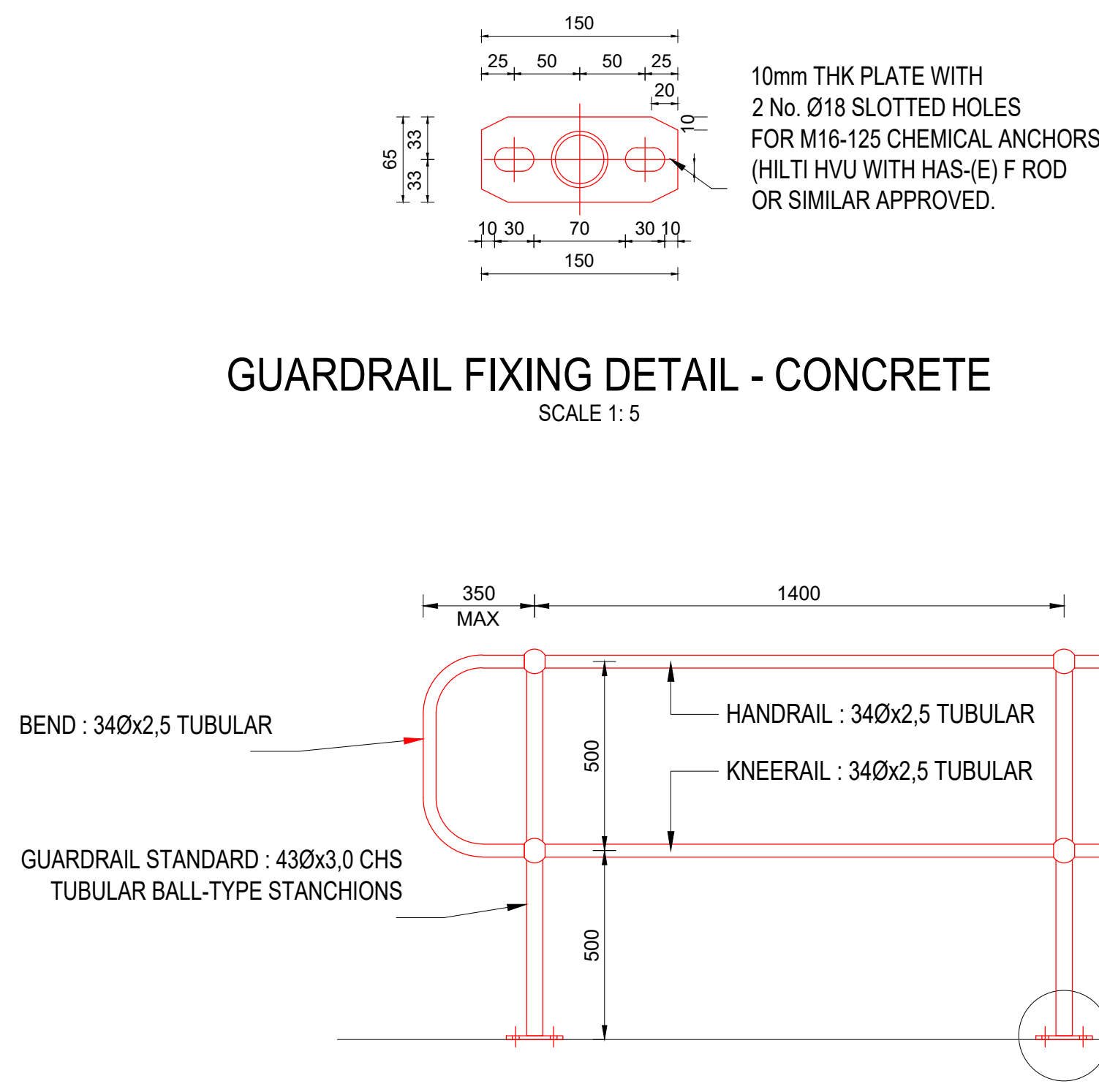
STEEL
HANDRAILS STANDARD "ANDREW
MENTIS" WITH BALL STANCHIONS
OR SIMILAR APPROVED

Concrete Bundwall.

STEEL
HANDRAILS STANDARD "ANDREW
MENTIS" WITH BALL STANCHIONS
OR SIMILAR APPROVED

GUARDRAIL FIXING DETAIL - CONCRETE

SCALE 1:5

GUARDRAIL DETAIL
(GENERAL DRY AREAS - MEDIUM DUTY)

SCALE 1:20

NOTES:

- GUARDRAIL SYSTEM DESIGNED TO RESIST 0.50 kN/m (MEDIUM DUTY). (MAGLOCK HS/2AM 2 RAIL GALVANISED OR SIMILAR APPROVED)
- ALL STRUCTURAL STEEL INCLUDING BOLTS TO BE GALVANISED.

GALVANIZED HANDRAILS STANDARD "ANDREW
MENTIS" WITH BALL STANCHIONS
OR SIMILAR APPROVED

25Mpa/19mm Concrete
Bundwall.

Y10 Dowels @ 180mm c/c. 200mm
long.
100mm embedded in the concrete
with chemical epoxy or similar
approved sealer.

SECTION 1

SCALE