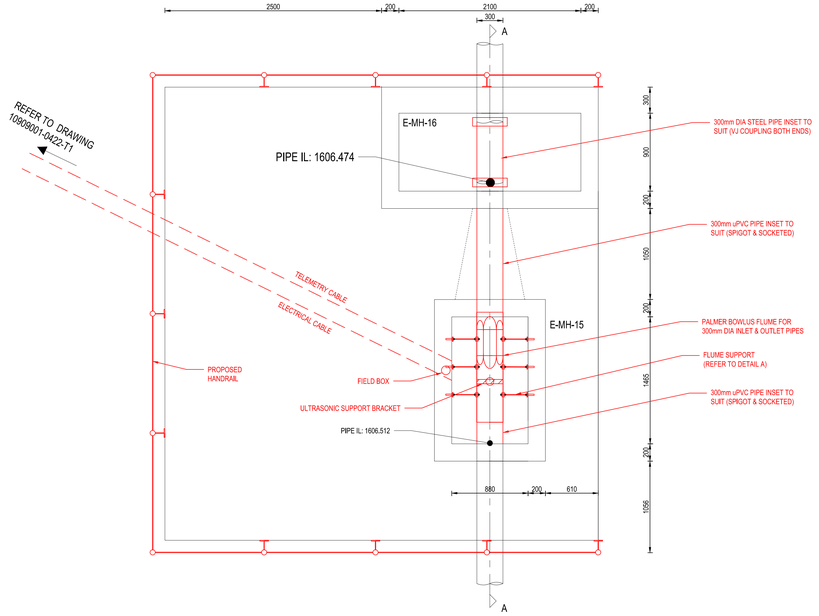
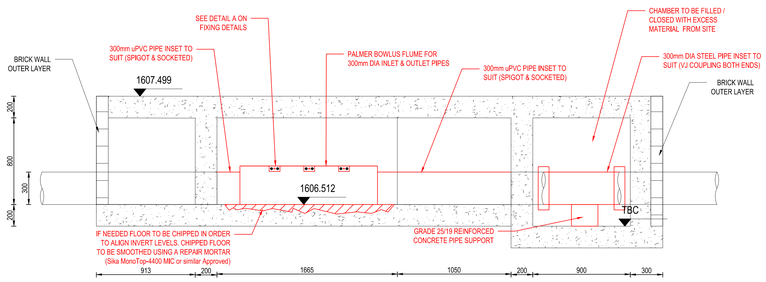
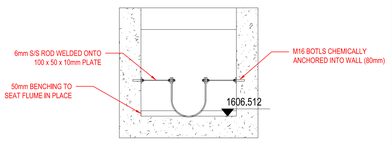
LAYOUT: FLOW DIVERSION 2 CHAMBER
SCALE 1:50



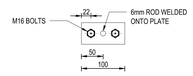
PLAN VIEW: FLOW DIVERSION 2 CHAMBER
SCALE 1:25



SECTION A-A
SCALE 1:20



SECTION B-B
SCALE 1:20



DETAIL A: FLUME SUPPORT BRACKET
SCALE 1:5

NOTES:

1. ALL WORK TO BE DONE ACCORDING TO SANS 1200
2. ALL MEASUREMENTS TO BE CONFIRMED PRIOR TO ORDERING ANY MATERIAL. ANY DISCREPANCIES TO BE COMMUNICATED TO THE ENGINEER.
3. DRAWING TO BE READ WITH:
   3.1. 10909001 - 0104 (SITE LAYOUT)
   3.2. 10909001 - 0422 (CENTRAL WORKS LAYOUT: PROPOSED ELECTRICAL & SIGNAL CABLE DUCTS)
   3.3. 10909001 - 0516 (TYPICAL DETAIL: REPLACEMENT HAND RAILS)
4. DN300 PALMER BOWLUS 304 s/s FLUME (CONFORMING TO THE PRINCIPLES OUTLINED IN ASTM D5390-93) TO BE INSTALLED INCLUDING ULTRASONIC SENSOR BRACKET s/s. TYPICAL DESIGN DIMENSIONS ARE AS FOLLOWS:
   4.1. 1.270m LENGTH
   4.2. 365mm HIGH
   4.3. 205mm WIDE
5. FLUME CONNECTIONS TO BE AS PER MANUFACTURERS SPECIFICATIONS.
6. CONCRETE REPAIRS TO BE DONE USING SIKA MONOTOP-4400 MIC OR SIMILAR APPROVED.
7. MISSING LIDS TO BE REPLACED.
8. MH16 CHAMBER TO BE FILLED AND CLOSED USING GRANULAR MATERIAL FROM SITE.
9. ULTRASONIC FLOW METER TO BE CALIBRATED USING THE ASTM D5390-93 STANDARD TEST METHOD FOR OPEN CHANNEL FLOW MEASUREMENT OF WATER WITH PALMER BOLUS FLUMES
10. ALL SUPPORT BRACKETS SHALL BE STAINLESS STEEL AND MADE OF AT LEAST 6mm Ø RODS WELDED TO (LENGTH TO SUITE) AND WELDED TO 100 x 50 x 10mm STEEL PLATE. BRACKETS TO BE FIXED TO WALL USING 2x16mm Ø S/S CHEMSET BOLTS REFER TO DETAIL A.

LEGEND:

BOQ:	BILL OF QUANTITIES (SEE CONTRACT DOCUMENTS)
CE:	CIVIL ENGINEERING
E:	ELECTRICAL (& ELECTRONIC FOR MCC's & TELEM)
M:	MECHANICAL
MEICA:	MECH ELECTRICAL INSTRUMENTATION CONTROL & AUTOMATION
ToC:	TOP OF CONCRETE (NEW)
ToC (Ex):	TOP OF CONCRETE (EXISTING)
ToP:	TOP OF PAVING
FFL:	FINISHED FLOOR LEVEL (NEW)

LOCAL MUNICIPALITY: MAP

SPONSOR & REGULATOR: DWS

FOR TENDER

0 — 100

100 MILLIMETRES ON ORIGINAL DRAWING

(A) BEFORE CONTRACT COMMENCES

(A) AFTER CONSTRUCTION CONTRACT HAS COMMENCED

Nr.	DATE	AMENDMENTS
(T1)	202503-17	FOR TENDER

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CLIENT / IMPLEMENTING AGENT

vaal central water .naturally

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CESA

PROJECT:
TSHIAME WWTW REFURBISHMENT
VCWB CONTRACT: BW298/TSHIWWTW/22

DRAWING DESCRIPTION
FLOW METER TO BNRAS (FLOW DIVERSION 2 CHAMBER): GENERAL LAYOUT, SECTIONS AND DETAILS

DRAWING NO.	REVISION
10909001 - 0555	T1

DESIGNED:	GM	CHECKED: ECSA PR ENG No: 20170244	GM
DRAWN:	HP	SCALE: AS SHOWN	A0
APPROVED: ECSA PR ENG No: 20170244		INCEPTION DATE: 2025-03-17	
FILE PATH:	SHAREPOINT BLOEMFONTEIN - 10909001 TSHIAME WWTW / 03 DES DEV / 04 DRAW / 01 CIVILS / 02 DWG		