



FLOW METER NO FM-05:
ULTRASONIC TYPE
SENSOR, COMPLETE
WITH TRANSMITTER

DP-20 TO LM (A1):
1 x 90mm uPVC E-DUCT
LENGTH: 12m

DP-20 TO FLOW METER:
1 x 50mm uPVC E-DUCT
1 x 50mm uPVC T-DUCT
EACH LENGTH: 26.5m

DP-19 TO DP-20:
1 x 90mm uPVC E-DUCT
1 x 90mm uPVC T-DUCT
EACH LENGTH: 51m

DP-18 TO DP-19:
1 x 90mm uPVC E-DUCT
1 x 90mm uPVC T-DUCT
EACH LENGTH: 32.6m

DP-17 TO DP-18:
1 x 110mm PVC E-DUCT
1 x 75mm PVC T-DUCT
EACH LENGTH: 6.5m

DP-16 TO DP-17:
1 x 110mm uPVC E-DUCT
1 x 90mm uPVC T-DUCT
EACH LENGTH: 23.5m

DP-15 TO DP-16:
1 x 110mm uPVC E-DUCT
1 x 90mm uPVC T-DUCT
EACH LENGTH: 48.4m

DP-18 TO LM (A2):
1 x 90mm uPVC E-DUCT
LENGTH: 2m

DP-18 TO WATER RE-USE PUMP:
1 x 50mm uPVC E-DUCT
1 x 50mm uPVC E T-DUCT
LENGTH: 7m

- NOTES:
- LAYOUT PLAN PRODUCED ON THE BASIS OF PROFESSIONAL LAND SURVEYORS AS-BUILT SURVEY, APRIL 2021. (ARROW SURVEYS PTY LTD) AND V3 CONSULTING ENGINEERS AS-BUILT SURVEY 2023. THE CONTRACTOR SHALL HOWEVER VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES WITH THOSE INDICATED ON CONSTRUCTION DRAWINGS PRIOR TO ORDERING OF RESPOKE FITTINGS AND SEEK CLARIFICATION FROM THE CONSULTING ENGINEER WHERE NECESSARY.
 - THIS DRAWING TO BE READ WITH ALL RELEVANT CIVIL ENGINEERING DRAWINGS.
 - THIS DRAWING TO BE READ WITH ALL RELEVANT MECHANICAL, ELECTRICAL AND ELECTRONIC ENGINEERING DRAWINGS.
 - FOR CABLE DUCTS: TAKE NOTE OF CIVIL DRAWINGS A) 10909001-0425 FOR CABLE DUCT & DRAW-PIT DETAIL.
 - CABLE DUCT LENGTHS ARE APPROXIMATE; ALL LENGTHS TO BE CONFIRMED BY CONTRACTOR ON SITE FOLLOWING SETTING OUT OF WORKS & DRAW-PIT CHAMBERS.

LEGEND:

REPLACEMENT FENCE TYPE 1

SEE DWO 10909001-0390 FOR DETAIL

PROPOSED GATE

CABLE DRAW-PIT: DP-XX

OVERHEAD LIGHT MAST

LEGEND:

BOQ: BILL OF QUANTITIES (SEE CONTRACT DOCUMENTS)

CE: CIVIL ENGINEERING

E: ELECTRICAL DUCT ON THIS DRAWING

DP-XX: DRAW-PIT XX

M: MECHANICAL

Mix: MIXER

MED: MECH ELECTRICAL INSTRUMENTATION CONTROL & AUTOMATION

SA-XX: SURFACE AERATOR

T: TELEMETRY DUCT ON THIS DRAWING

Tc: TOP OF CONCRETE (NEW)

Tc (EX): TOP OF CONCRETE (EXISTING)

FFL: FINISHED FLOOR LEVEL (NEW)

LOCAL MUNICIPALITY: MAP

SPONSOR & REGULATOR: DWS



ISSUE FOR MUNICIPAL APPROVAL

0 100

100 MILLIMETRES ON ORIGINAL DRAWING

BEFORE CONTRACT COMMENCES

AFTER CONSTRUCTION CONTRACT HAS COMMENCED

N: DATE: AMENDMENTS

A 2024-09-09 DETAIL DESIGN (ISSUE FOR LM APPROVAL)

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CLIENT / IMPLEMENTING AGENT

vaal central water.naturally

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CESA

PROJECT

TSHAME WWTW REFURBISHMENT

VCWB CONTRACT: BW298/TSHIWWTW/22

DRAWING DESCRIPTION

PONDS & DISCHARGE LAYOUT: PROPOSED

ELECTRICAL & SIGNAL CABLE DUCTS (SHEET 3)

DRAWING NO.

10909001 - 0423

REVISION

A

DESIGNED: GM

CHECKED: SCB (R. ENG) No. 3017024 GM

DRAWN: HP

SCALE: 1:250 A0

APPROVED: ECA (R. ENG) No. 3017024

INCEPTION DATE: 2024-02-10

FILE PATH: WWTW / G2 CONCEPT / G4 DRAW