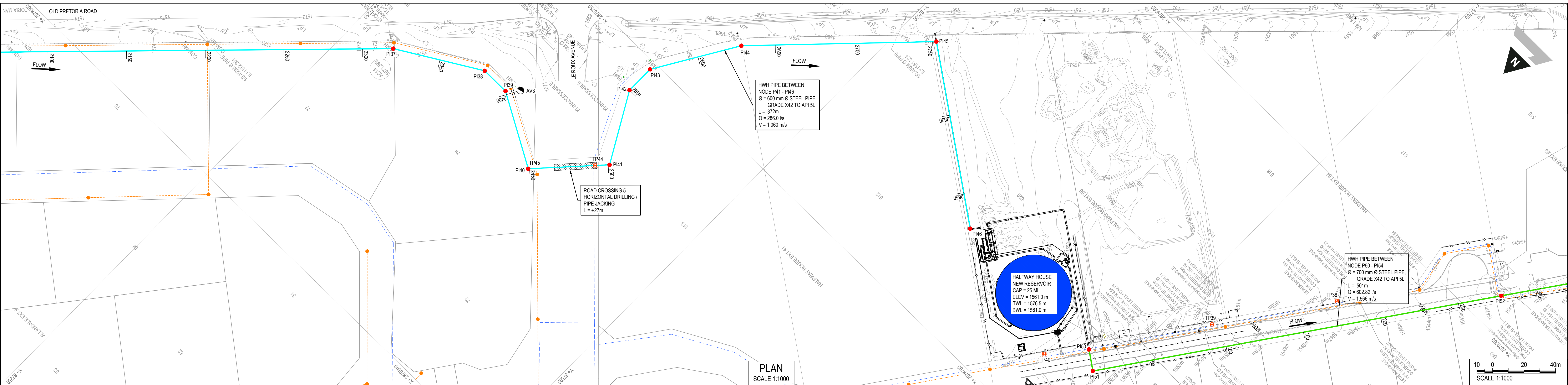




GENERAL NOTES:

1.

DRAWINGS MUST NOT BE SCALED.

2.

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS

3.

ACCORDING TO THE COPYRIGHT ACT (ACT No 98 OF 1978) NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WHATSOEVER INCLUDING MECHANICAL, ELECTRONIC, PHOTOCOPYING, MICROFILMING OR ANY OTHER SYSTEM OF INFORMATION STORAGE WITHOUT WRITTEN PERMISSION OF ZUTARI.

LEGEND

700mm Ø STEEL PIPELINE

600mm Ø STEEL PIPELINE

710mm Ø PVC-O PIPELINE (BY OTHERS)

EXISTING WATER PIPELINE

EXISTING SEWER PIPELINE

EXISTING ESOM OVERHEAD CABLES

EXISTING DFA CABLES

NODES

OFFTAKE

TEST PITS

BOREHOLES

ISOLATING VALVE

AIR VALVE

SCOUR VALVE

COORDINATES LIST FOR BULK WATER FEEDER PIPELINE WGS-84 LO-29			
POINT	Y-COORD	X-COORD	INVERT LEVEL
P144	87435.324	2878796.453	1566.040
P145	87522.007	2878885.020	1560.681
P146	87620.585	2878815.115	1560.217

LEGEND

NATURAL GROUND LEVEL (NGL)

WATER PIPES

PIPE JACKING / HORIZONTAL DRILLING

PREFABRICATED BEND > 5°

SCALES:

Horizontal 1:1000

Vertical 1:100

DATUM 1550

PI	P141	P142	P143	P144	P145	P146
CHAINAGE (m)	1590.872	1590.872	1590.872	1590.872	1590.872	1590.872
GROUND LEVEL (m)	1598.541	1598.031	1598.031	1598.031	1598.031	1598.031
PIPE INVERT (m)	1598.541	1598.031	1598.031	1598.031	1598.031	1598.031
DEPTH TO INVERT (m)	0.000	0.000	0.000	0.000	0.000	0.000
PIPE LENGTH / SLOPE	49.062 m 0.290%	18.667 m 0.278%	59.892 m 0.517%	124.043 m 4.524%	120.849 m 0.384%	
CHANGE IN DIRECTION	72.2°	28.9°	30.1°	2.1° 13.3°	2.2° 80.9°	
PEAK FLOW / VELOCITY	296.000 l/s 1.060 m/s					
PIPE SIZE / PIPE TYPE	600mm Ø (NB) STEEL PIPE, GRADE X42 TO API 5L, INTERNALLY LINED WITH SINGLE COAT SOLVENT FREE LIQUID EPOXY LINING (600 MICRONS DFT) TO SANS 1217 AND EXTERNALLY COATING WITH RIGID POLYURETHANE OF (2000 MICRONS DFT) TO SANS 1217 OR SIMILAR APPROVED BY JW					
STATIC PRESSURE (m)	42.867	43.010	43.062	43.071	48.730	49.194
HYDRAULIC GRADE (m) / HEAD LOSS	0.073 m	0.028 m	0.089 m	0.184 m	0.179 m	

LONGSECTION: P141 - P146

CONSULTING ENGINEERS

ZUTARI

IMPACT. ENGINEERED.

OXFORD CORNER

ELLIDORE AVENUE

ROSEBANK, JOHANNESBURG

SOUTH AFRICA

TEL: +27 11 214 4500

CLIENT

17 HARRISON STREET

MARSHALLTOWN

2107

DESIGNED

T. SHABALALA

JULY 2021

DRAWN

T. SHABALALA

JULY 2021

CHECKED

M. LUSUNZI

JULY 2021

APPROVED BY:

C. KAN

JULY 2021

ECSA REG. No.

CHECKED BY:

ECSA REG. No.

Johannesburg Water

17 HARRISON STREET

MARSHALLTOWN

2107

TEL: (011) 688-1400

FAX: (011) 688-1529

Joburg

HALFWAY HOUSE WATER UPGRADE

PLAN AND LONGSECTION:

SHEET 4 OF 10

APPROVAL BY JW DEPOT

CHECKED

APPROVED BY:

SIGNATURE

DATE

SCALE

REV.

DESCRIPTION

DATE:

AMENDMENTS

TO

ISSUED FOR TENDER

10/2021

APPROVAL BY JW PLANNING

CHECKED

APPROVED BY:

SIGNATURE

DATE

DRAWING No.

111242 - 0000-DRG-WW-0304 - TO

PROJECT No.

DRAWING No.

REV.

A0

SHEET

4

OF

10

ORIGINAL PAGE SIZE

FILE No.