SCALES:
Horizontal 1:200
Vertical 1:100

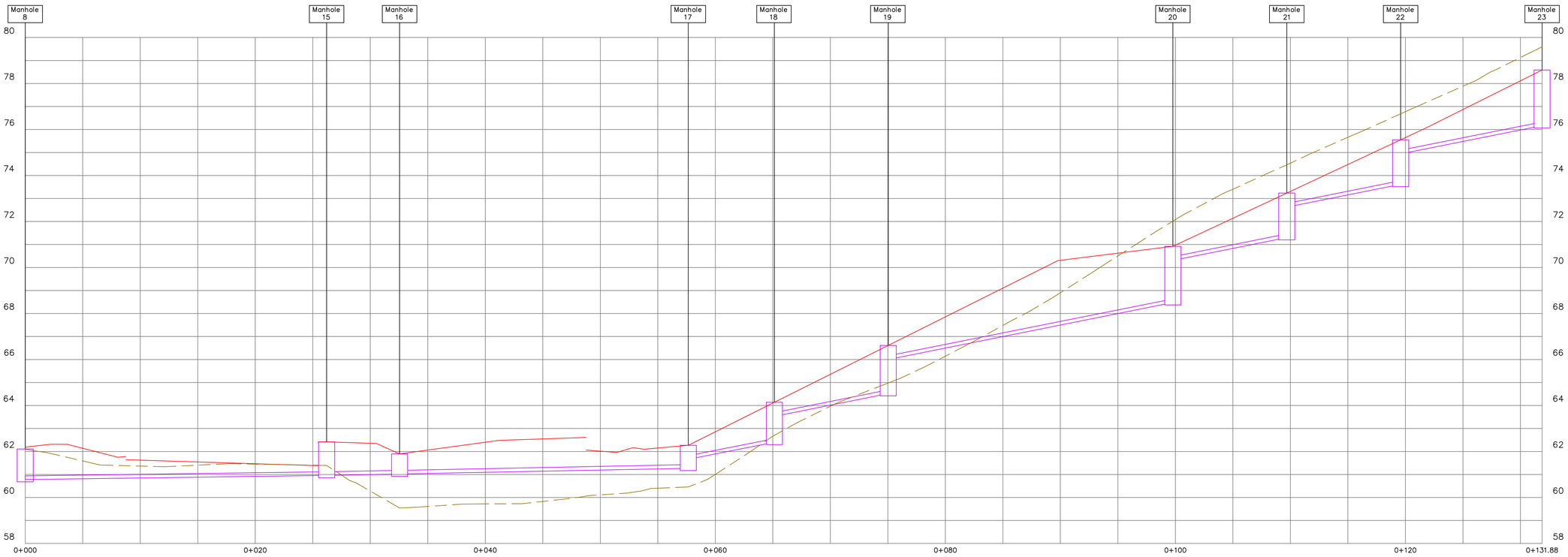
LEGEND

Roadways & Platforms:

NGL:

Sewer:

301.Sewer Alignment – MH 8 to MH 23 PROFILE



Invert Elevations	60.78	60.96	60.96	61.02	61.02	61.27	61.66	62.40	63.53	64.52	66.00	68.48	70.31	71.30	72.62	73.62	74.94	76.17					
Rim Elevations		62.42		61.90		62.27		64.14		66.61		70.92		73.24		75.55							
NGL		61.39		59.54		60.46		62.70		64.98		72.02		74.46		76.68							
Pipe Grades and Class	1:140 / 0.7%			1:100 / 1%		1:100 / 1%					1:10 / 10%												
	160mm Class 34 Heavy Duty uPVC Solid Wall Sewer Pipe			160mm Class 34 Heavy Duty uPVC Solid Wall Sewer Pipe		160mm Class 34 Heavy Duty uPVC Solid Wall Sewer Pipe					160mm Class 34 Heavy Duty uPVC Solid Wall Sewer Pipe												

General

G1 This drawing shall be read in conjunction with all other working drawings and specifications and with such other written instructions as may be issued during the course of the construction. Any discrepancies or variations shall be referred to the Engineer before proceeding with work.

G2 Work shall be done in accordance with requirements of all relevant andcurrent South African Codes where applicable.

G3 All dimensions relevant to setting out and off-site work shall be verified before construction and fabrication is commenced.

G4 Dimensions shall not be obtained by scaling the drawings.

G5 During construction all structures shall be maintained in a stable condition and no part shall be overstressed.

G6 All levels are in meters above mean sea level.

G7 Where connections to existing drainage systems/services is required the levels and locations of all relevant stormwater outlets, box culverts, outfalls, conduits/services shall be verified before construction and referred to the engineer before construction is commenced.

G8 It is the responsibility of the contractor to locate existing services. Any damage caused to existing services shall be repaired to the satisfaction of the engineer, at t he contractors expense.

G9 Where pits/trenches which are to be constructed in the vicinity of buildings, shoring and bracing adequate to prevent undermining at the building shall be provided to the approval of the Engineer.

G10 All signs are to be provided in English. English only has been shown on the drawings.

G11 All dimensions and levels to be checked on site and where applicable to match existing structure,

G12 Any discrepancy or contradiction is to immediately reported to the Engineer.

G13 A complete set of drawings to be available on site at all times.

G14 All dimensions shown on the plan are to be plotted on site at the horizontal level.

G15 The contractor is responsible for the correct setting out. Details are to be in accordance with the drawings.

Services

S1 The contractor shall provide proper support for all existing services which become exposed due to excavation for installation and relocation of new and existing services.

S2 All concrete stormwater pipes/culverts shall be manufactured in accordance with relevant South African standards and conforming to the requirements in the specification.

S3 Minimum cover to pipes/culverts and conduits shall be 900mm unless noted otherwise on the drawings.

S5 All pits, manholes and headwalls are symmetrical unless noted otherwise on the drawings.

S6 Where existing service lines, that are to be maintained are found to conflict with the new services the Engineer shall be advised and the new services shifted to the Engineers approval.

S7 A sample of fill material together with test results shall be provided to the Engineer prior to construction.

S8 The specification for fill material to be as follows:
(1) contain no organic material or stone of dimension 150mm or two-thirds the thickness of the layer to be compacted.
(2) be cable of compacting to 95% MOD A.A.S.H.T.O. for the gravel wearing course and 93% for the gravel selected layer

Revision Details

No.	Date	Description	By

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PROUDLY SOUTH AFRICAN

FOR APPROVAL

Client: REDLINE GROUP

Project: NAHOON VALLEY DEVELOPMENT

Drawing Title: SEWER LONG SECTIONS SHEET 3 OF 3

Designed: N Weyer
Drawn: N Weyer
Checked: D de Wet
Scale: As Shown
Size: A1
Date: 06 July 2022
Revision: 0
Drawing No.: S222150-SRL-04