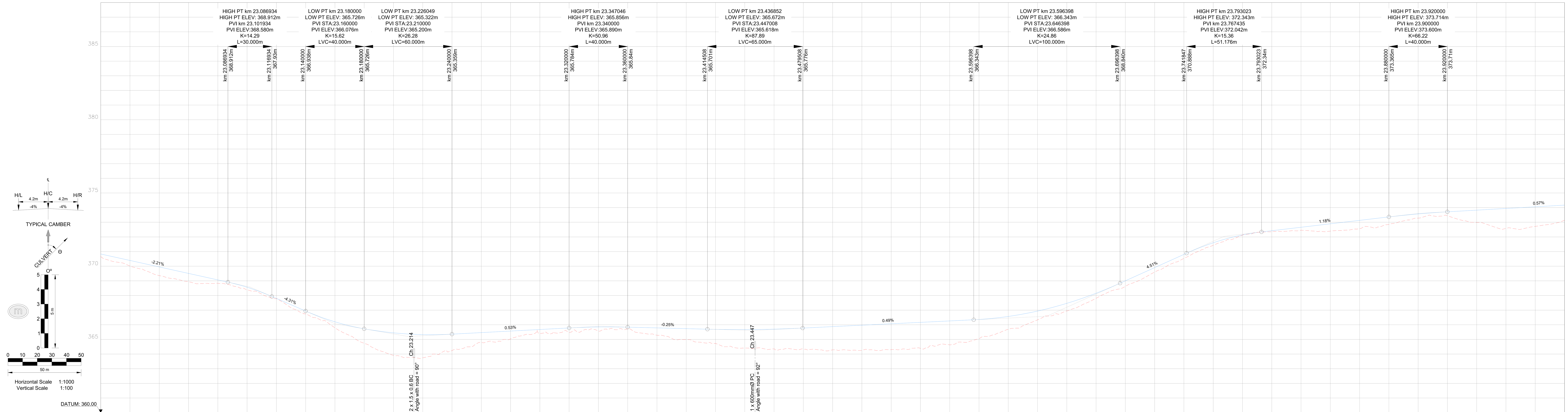
STORMWATER SETTING OUT DATA		
NODE	Y-COORDINATES	X-COORDINATES
C48 - LEFT	-13056.249	2563326.600
C48 - RIGHT	-13048.414	2563334.293
C49 - LEFT	-13236.125	2563472.980
C49 - RIGHT	-13229.672	2563481.390



VERTICAL CURVES: -2.21% | VCL=30 m K=14.3 | -4.31% | VCL=40 m K=15.6 | Vertical | VCL=60 m K=26.3 | 0.53% | VCL=40 m K=51.0 | -0.25% | VCL=65 m K=87.9 | 0.49% | VCL=100 m K=24.9 | 4.51% | VCL=51 m K=15.4 | 1.18% | VCL=40 m K=66.2 | 0.57%

CHAINAGE (m)	23000	23020	23040	23060	23080	23100	23120	23140	23160	23180	23200	23220	23240	23260	23280	23300	23320
LEFT EDGE (4.2m)	370.667	370.225	369.782	369.508	369.233	368.730	367.969	366.938	366.036	365.558	365.286	365.168	365.191	365.297	365.404	365.510	365.616
DESIGN CENTRE LINE LEVELS	370.835	370.393	369.950	369.508	369.065	368.563	367.801	366.938	366.204	365.726	365.451	365.329	365.359	365.465	365.572	365.678	365.784
RIGHT EDGE (4.2m)	370.667	370.225	369.782	369.340	368.897	368.394	367.633	366.770	366.039	365.558	365.286	365.168	365.191	365.297	365.404	365.510	365.616
GROUND LEVELS AT GRADE LINE	370.656	370.008	369.357	368.952	368.834	368.369	367.782	366.734	365.797	364.735	363.917	363.746	364.241	364.802	365.039	365.416	365.484

CHAINAGE (m)	23340	23360	23380	23400	23420	23440	23460	23480	23500	23520	23540	23560	23580	23600	23620	23640	23660
LEFT EDGE (4.2m)	365.678	365.671	365.620	365.569	365.525	365.509	365.536	365.610	365.707	365.804	365.901	365.998	366.095	366.195	366.403	366.769	367.303
DESIGN CENTRE LINE LEVELS	365.851	365.839	365.788	365.737	365.688	365.673	365.703	365.778	365.875	365.972	366.069	366.166	366.263	366.363	366.570	366.937	367.465
RIGHT EDGE (4.2m)	365.678	365.671	365.620	365.569	365.525	365.509	365.536	365.610	365.707	365.804	366.013	366.222	366.431	366.534	366.738	366.995	367.418
GROUND LEVELS AT GRADE LINE	365.573	365.735	365.288	364.991	364.729	364.412	364.348	364.353	364.288	364.253	364.302	364.391	364.625	365.068	365.681	366.337	366.943

CHAINAGE (m)	23680	23700	23720	23740	23760	23780	23800	23820	23840	23860	23880	23900	23920	23940	23960	23980	24000
LEFT EDGE (4.2m)	367.992	368.834	369.735	370.637	371.501	372.111	372.481	372.790	373.063	373.298	373.533	373.738	373.815	373.862	373.909	373.956	374.003
DESIGN CENTRE LINE LEVELS	368.154	369.002	369.903	370.805	371.599	372.134	372.425	372.660	372.895	373.130	373.365	373.570	373.714	373.829	373.943	374.057	374.171
RIGHT EDGE (4.2m)	367.986	368.834	369.735	370.637	371.426	371.962	372.257	372.492	372.727	372.962	373.197	373.402	373.546	373.661	373.775	373.889	374.003
GROUND LEVELS AT GRADE LINE	367.810	368.624	369.596	370.533	371.426	372.126	372.391	372.454	372.396	372.558	372.859	373.282	373.443	372.992	372.581	372.719	373.136

HORIZONTAL ALIGNMENT: STRAIGHT L=51.754m 272° 14' 13" (22998m – 23049m) | R=135.00m L=101.99m | STRAIGHT L=58.990m 315° 31' 22" (23151m – 23210m) | R=500.00m L=27.19m | STRAIGHT L=48.996m 312° 24' 25" (23238m – 23287m) | R=500.00m L=41.83m | STRAIGHT L=58.488m 307° 36' 47" (23328m – 23387m) | R=500.00m L=22.07m | STRAIGHT L=46.863m 305° 05' 01" (23409m – 23456m) | R=500.00m L=21.13m | STRAIGHT L=65.617m 307° 30' 16" (23477m – 23543m) | R=160.00m L=111.45m | STRAIGHT L=107.940m 267° 35' 39" (23654m – 23762m) | R=280.00m L=215.51m | STRAIGHT L=56.276m 311° 41' 35" 23977m

SUPER ELEVATION

GUARDRAILS

SIDE DRAINS: LEFT CH 22.920 TO 23.100 | BOTH SIDES CH 23.100 TO 23.220 | LEFT CH 23.220 TO 24.060

CULVERTS: C48 KM 23.214 2 x 1500 x 600 BC 90° | C49 KM 23.447 1 x 600mmØ PC 92°

(REF FOLDER: X:\02 PROJECTS\3000\3500 - 3599\N3587EN - SHANGONI ROAD KNP\1 DESIGN PHASE\F DRAWINGS\TENDER\ROADS\EN3587R3001-038.DWG)

Rev	Date	By	Description
AMENDMENTS			

TECHNICAL SERVICES DEPARTMENT
KRUGER NATIONAL PARK
DRAWING OFFICE (KNP)
Tel:(013) 735 3448

DESIGNED BY	A.J NEL
CHECKED BY	C.J SMIT
DRAWN BY	J. VAN DYK
CHECKED BY	C.J SMIT

APPROVED BY

HOD TECH SERVICES	SEN. MAN. CIVIL & BUILDING	SEN. MAN. ELECTRO & MECHANICAL	SEN. MAN. ROADS & MAINTENANCE	MAN. PLANNING & DESIGN	CLIENT
DATE:	DATE:	DATE:	DATE:	DATE:	DATE:

SERVICE: ROADS
FOR TENDER PURPOSES

PROJECT: SHANGONI ROAD PH 1

TITLE: ROADS - LONGSECTION: CH-23●000 TO CH-24●000

DATE	SCALE	CAD FILE NAME
APRIL 2024	1:1000	EN3587R3001-038.dwg
SCALE REF. METER		PAPER SIZE: A0

CONSULTANT DWG. NO. EN/3587/R/3/025
CLIENT DWG. NO. P09/R/3/025