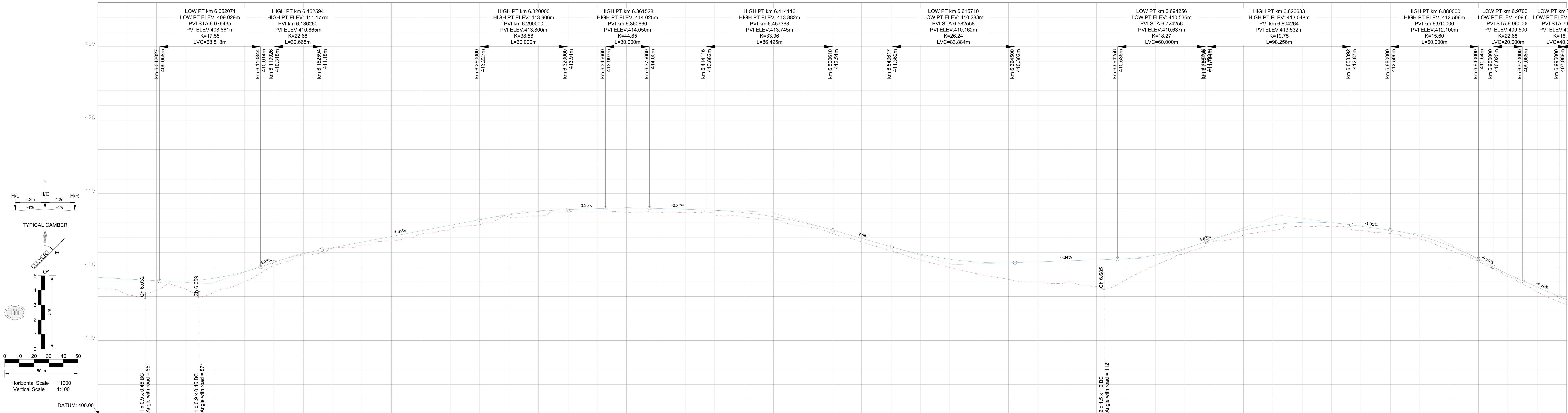
STORMWATER SETTING OUT DATA		
NODE	Y-COORDINATES	X-COORDINATES
C14 - LEFT	2955.317	2563596.998
C14 - RIGHT	2948.942	2563604.389
C15 - LEFT	2925.62	2563574.979
C15 - RIGHT	2919.245	2563582.37
C16 - LEFT	2416.755	2563228.025
C16 - RIGHT	2418.038	2563238.930



VERTICAL CURVES: -0.57% | VCL=69 m K=17.5 | 3.35% | VCL=33 m K=22.7 | 1.91% | VCL=60 m K=38.6 | 0.35% | VCL=30 m K=44.8 | -0.32% | VCL=86 m K=34.0 | -2.86% | VCL=84 m K=26.2 | 0.34% | VCL=60 m K=18.3 | 3.62% | VCL=98 m K=19.8 | -1.35% | VCL=60 m K=15.6 | -5.20% | VCL=20 m K=22.7 | -4.32% | VCL=40 m K=16.2

CHAINAGE (m)	LEFT EDGE (4.2m)	DESIGN CENTRE LINE LEVELS	RIGHT EDGE (4.2m)	GROUND LEVELS AT GRADE LINE
6000	409.131	409.299	409.131	408.528
6020	409.016	409.184	409.016	408.135
6040	408.902	409.070	408.902	408.414
6060	408.882	409.047	408.883	408.490
6080	409.093	409.252	409.093	408.317
6100	409.519	409.684	409.519	408.995
6120	410.152	410.320	410.152	410.147
6140	410.732	410.901	410.732	410.818
6160	411.150	411.318	411.150	411.277
6180	411.532	411.700	411.532	411.489
6200	411.914	412.082	411.914	411.825
6220	412.296	412.464	412.296	412.253
6240	412.677	412.845	412.677	412.573
6260	413.059	413.227	413.059	412.884
6280	413.382	413.557	413.382	413.407
6300	413.616	413.784	413.616	413.493
6320	413.738	413.906	413.738	413.739
6340	413.809	413.977	413.809	413.767
6360	413.856	414.025	413.856	413.720
6380	413.821	413.989	413.821	413.722
6400	413.758	413.926	413.758	413.722
6420	413.685	413.858	413.685	413.565
6440	413.530	413.701	413.530	413.401
6460	413.258	413.427	413.258	413.243
6480	412.866	413.035	412.866	412.782
6500	412.356	412.525	412.356	412.291
6520	411.784	411.952	411.784	411.715
6540	411.212	411.380	411.212	411.101
6560	410.713	410.879	410.713	410.458
6580	410.366	410.531	410.366	409.967
6600	410.168	410.335	410.168	409.496
6620	410.125	410.291	410.125	409.161
6640	410.186	410.354	410.186	408.996
6660	410.253	410.421	410.253	408.994
6680	410.320	410.488	410.320	408.677
6700	410.399	410.564	410.399	409.136
6720	410.639	410.804	410.639	410.118
6740	411.095	411.262	411.095	410.932
6760	411.755	411.924	411.755	411.772
6780	412.324	412.498	412.324	412.190
6800	412.696	412.868	412.696	412.500
6820	412.865	413.037	412.865	412.738
6840	412.831	413.003	412.831	412.743
6860	412.609	412.777	412.609	412.497
6880	412.338	412.506	412.338	412.275
6900	411.939	412.107	411.939	411.904
6920	411.284	411.452	411.284	411.186
6940	410.372	410.540	410.372	410.384
6960	409.359	409.522	409.359	409.349
6980	408.468	408.636	408.468	408.319
7000	407.616	407.780	407.616	407.437

HORIZONTAL ALIGNMENT:
- STRAIGHT L=29.964m 236° 31' 54" 5976m 6006m
- R=800.00m L=57.55m
- STRAIGHT L=60.911m 232° 24' 35" 6064m 6125m
- R=800.00m L=45.03m
- STRAIGHT L=22.227m 235° 38' 05" 6170m 6192m
- R=1400.00m L=75.27m 6267m
- STRAIGHT L=16.970m 232° 33' 15"
- R=300.00m L=16.30m 6284m
- STRAIGHT L=78.967m 235° 40' 00" 6300m 6379m
- R=300.00m L=31.09m
- STRAIGHT L=50.381m 229° 43' 46" 6411m 6461m
- R=400.00m L=22.04m
- STRAIGHT L=30.241m 226° 34' 21" 6483m 6513m
- R=225.00m L=63.31m
- STRAIGHT L=33.100m 242° 41' 39" 6577m 6610m
- R=260.00m L=56.69m
- STRAIGHT L=24.929m 255° 11' 13" 6666m 6691m
- R=4000.00m L=140.06m 6831m
- STRAIGHT L=10.464m 253° 10' 51" 6842m
- R=700.00m L=45.16m
- STRAIGHT L=69.691m 249° 29' 04" 6887m 6957m
- R=135.00m L=24.73m
- STRAIGHT L=42.089m 238° 59' 20" 6981m

SUPER ELEVATION

GUARDRAILS

SIDE DRAINS: LEFT CH 5.265 TO 6.600 | NO SIDE DRAIN CH 6.600 TO 6.720 | LEFT CH 6.720 TO 7.040

CULVERTS: C14 KM 6.032 1 x 900 x 450 BC 85° | C15 KM 6.069 1 x 900 x 450 BC 87° | C16 KM 6.685 2 x 1500 x 1200 BC 112°

(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

South African NATIONAL PARKS

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-6●000 TO CH-7●000

DATE	SCALE	CAD FILE NAME
APRIL 2024	1:1000	EN3587R3001-038.dwg

SCALE REF. METER: 40 20 0 20 40 / 30 10 10 30

PAPER SIZE: A0

CONSULTANT DWG. NO. EN/3587/R/3/008

CLIENT DWG. NO. P09/R/3/008