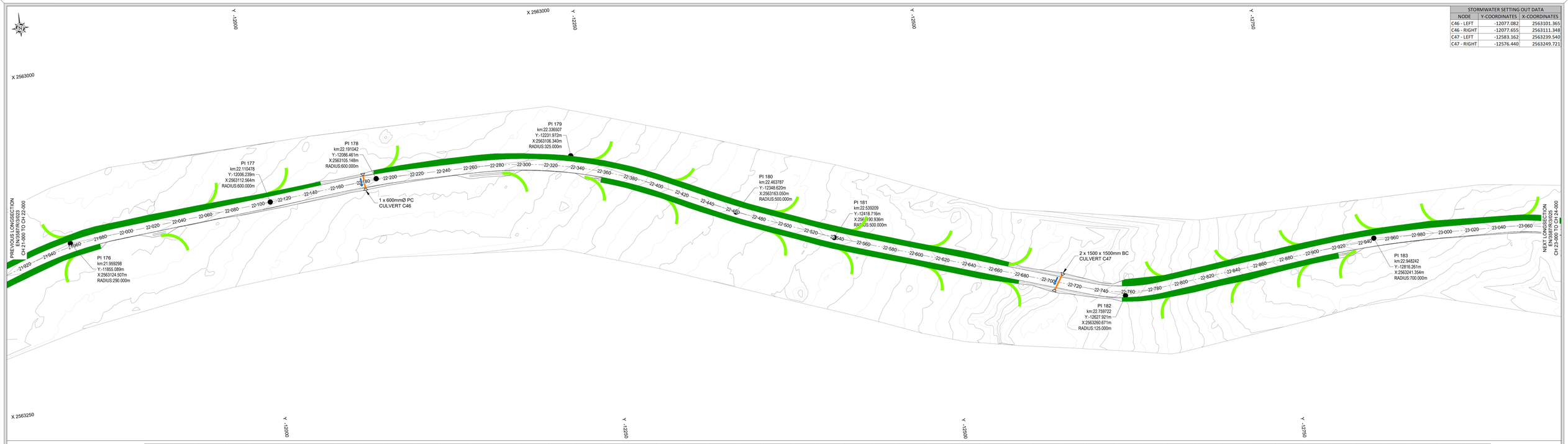
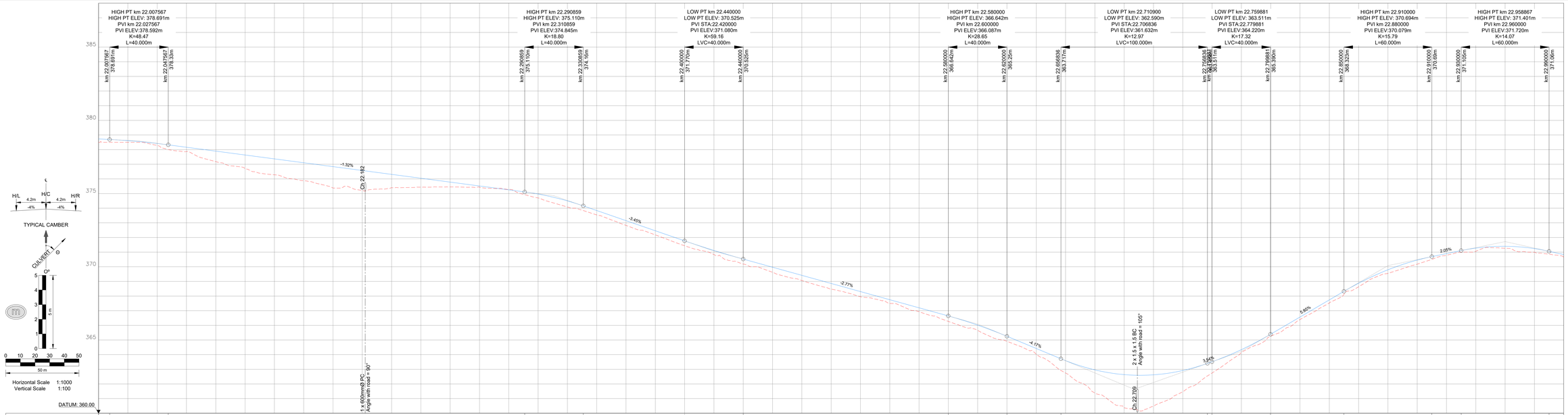
STORMWATER SETTING OUT DATA		
NODE	Y-COORDINATES	X-COORDINATES
C46 - LEFT	-12077.082	2563101.365
C46 - RIGHT	-12077.655	2563111.348
C47 - LEFT	-12583.162	2563239.540
C47 - RIGHT	-12576.440	2563249.721





VERTICAL CURVES	-0.50%	VCL=40 m K=48.5	-1.32%	VCL=40 m K=18.8	-3.45%	VCL=40 m K=59.2	-2.77%	VCL=40 m K=28.7	-4.17%	VCL=100 m K=13.0	3.54%	VCL=40 m K=17.3	5.85%	VCL=60 m K=15.8	2.05%	VCL=60 m K=14.1	-2.21%
LEFT EDGE (4.2m)	378.561	378.444 / 378.252	377.995 / 377.730	377.666 / 377.201	376.937 / 376.408	376.143 / 375.879	375.614 / 375.406	375.253 / 375.078	374.866 / 374.608	373.918 / 373.318	372.532 / 371.746	370.985 / 370.357	369.802 / 369.248	368.693 / 368.138	367.583 / 367.029	366.474 / 365.849	365.085 / 365.253
DESIGN CENTRE LINE LEVELS	378.729	378.613 / 378.421	378.153 / 377.888	377.634 / 377.369	377.105 / 376.843	376.511 / 376.143	375.782 / 375.518	375.253 / 375.098	374.867 / 374.498	373.843 / 373.153	372.482 / 371.772	371.114 / 370.529	369.970 / 369.418	368.861 / 368.308	367.757 / 367.197	366.642 / 366.017	365.253 / 364.419
RIGHT EDGE (4.2m)	378.561	378.444 / 378.252	377.995 / 377.730	377.666 / 377.201	376.937 / 376.408	376.143 / 375.879	375.614 / 375.350	375.085 / 374.798	374.798 / 374.929	373.672 / 372.982	372.292 / 371.602	370.960 / 370.387	369.802 / 369.248	368.693 / 368.138	367.583 / 367.029	366.474 / 365.849	365.085 / 364.251
GROUND LEVELS AT GRADE LINE	378.499	378.503 / 378.283	377.867 / 377.178	377.178 / 376.693	376.282 / 375.984	375.577 / 375.245	375.397 / 375.435	375.434 / 375.285	374.700 / 374.690	373.540 / 372.926	372.178 / 371.436	370.833 / 370.187	369.632 / 369.062	368.477 / 367.856	367.498 / 366.951	366.271 / 365.652	364.913 / 364.023
CHAINAGE (m)	22000	22020 / 22040	22060 / 22080	22100 / 22120	22140 / 22160	22180 / 22200	22220 / 22240	22260 / 22280	22300 / 22320	22340 / 22360	22380 / 22400	22420 / 22440	22460 / 22480	22500 / 22520	22540 / 22560	22580 / 22600	22620 / 22640
HORIZONTAL ALIGNMENT	STRAIGHT L=109.309m 265° 28' 56" 21997m	R=600.00m L=8.00m 22106m	STRAIGHT L=46.428m 264° 43' 06" 22114m	22161m	R=600.00m L=60.22m	STRAIGHT L=41.964m 270° 28' 06" 22221m	22263m	R=325.00m L=144.41m	22407m	STRAIGHT L=37.810m 295° 55' 38" 22445m	R=500.00m L=36.94m	STRAIGHT L=42.736m 291° 41' 39" 22482m	22525m	R=500.00m L=28.44m	22553m	STRAIGHT L=179.395m 288° 26' 06" 22733m	R=125.00m L=52.99m
SUPER ELEVATION																	
GUARDRAILS																	
SIDE DRAINS	LEFT CH 21.980 TO 22.360									BOTH SIDES CH 22.360 TO 22.920							
CULVERTS	C46 KM 22.182 1 x 600mmØ PC 90°															C47 KM 22.709 2 x 1500 x 1500 BC 105°	

VERTICAL CURVES	VCL=100 m K=13.0	3.54%	VCL=40 m K=17.3	5.85%	VCL=60 m K=15.8	2.05%	VCL=60 m K=14.1	-2.21%
LEFT EDGE (4.2m)	363.429 / 362.799	362.476 / 362.639	362.462 / 362.750	363.348 / 364.174	365.229 / 366.400	367.570 / 368.706	369.625 / 370.288	370.732 / 371.102
DESIGN CENTRE LINE LEVELS	363.589 / 362.959	362.639 / 362.622	362.918 / 363.515	364.341 / 365.397	366.568 / 367.739	368.877 / 369.794	370.458 / 370.900	371.274 / 371.402
RIGHT EDGE (4.2m)	363.425 / 362.794	362.472 / 362.540	363.004 / 363.684	364.429 / 365.313	366.400 / 367.070	368.706 / 369.625	370.288 / 370.732	371.102 / 371.232
GROUND LEVELS AT GRADE LINE	362.743 / 361.379	360.397 / 360.462	361.469 / 362.747	364.150 / 365.252	366.397 / 367.825	368.633 / 369.548	370.179 / 370.784	371.061 / 371.367
CHAINAGE (m)	22660 / 22680	22700 / 22720	22740 / 22760	22780 / 22800	22820 / 22840	22860 / 22880	22900 / 22920	22940 / 22960
HORIZONTAL ALIGNMENT	22733m	R=125.00m L=52.99m	STRAIGHT L=112.907m 264° 08' 38" 22786m	22899m	R=700.00m L=98.87m	STRAIGHT L=51.154m 272° 14' 13" 22998m	23000m	
SUPER ELEVATION								
GUARDRAILS								
SIDE DRAINS							LEFT CH 22.920 TO 23.100	
CULVERTS								

(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-22●000 TO CH-23●000

DATE	SCALE	CAD FILE NAME	CONSULTANT DWG. NO.
APRIL 2024	1:1000	EN3587R3001-038.dwg	EN/3587/R/3/024
		PAPER SIZE	CLIENT DWG. NO.
		A0	P09/R/3/024

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