

# SKILLS MATRIX

Skills Matrix	Civil Engineering				
	W STANDER	K V JAARVELD	H WELMAN	H FURSTENBERG	J STRYDOM
Name					
Position	Director/Project Engineer	Director	Director	Technical Director	Director
<b>Development Facilitation</b>					
Bulk Services strategy	*	*			*
Feasibility and Due diligence Studies	*		*		*
Wayleave application		*	*	*	
Detail design	*	*	*	*	
Contract documentation and Management	*	*	*	*	
Completion and Roll out	*	*	*	*	
<b>Service Master planning</b>					
Water Network, Bulk and reticulation	*				*
Sewer Reticulation and treatment	*				*
Stormwater, major and minor systems	*		*		*
Road network, major to minor	*	*			
<b>Specialist Services</b>					
Waste Water treatment works	*				
Water Purification systems	*				
Reservoirs			*		
Bulk Water Pipelines	*	*	*	*	
Outfall sewer	*	*	*	*	
Pump stations	*	*	*		
Recreational facilities, swimming pools, water slides, pools, Crystal Lagoons TM	*		*		
<b>Hydrology</b>					
Floodline management	*		*		
Hydrological Modelling	*		*		*
Specilaized Attenuation structures, river canalization	*		*		
Bridges and structures	*		*		*

Skills Matrix	Structural Engineering			
	F KRUGER	A VAN WYK	W STANDER	C STEYN
Name				
Position	Senior Engineer	Engineer	Director / Project Engineer	Engineer
<b>Reinforced Concrete</b>				
Multi Storey Buildings	*			
Pre Stressed Concrete	*	*		*
Steel Structures	*	*		*
Timber Structures	*	*		*
Security Structures	*	*		*
Water retaining structures		*		*
<b>Industrial and Mining</b>				
Warehousing	*	*		*
All Mining related structures	*			
<b>Specialist Services</b>				
Special and Deep Foundations	*			
Dynamic Loadings	*			
Aerial Towers and Masts	*			
Conventional, post tension reservoirs		*		*
WWTW structural design		*		*
<b>Contract Management</b>				
Wet services Coordination			*	
Contract documentation and Management			*	
Completion and Roll out			*	





Skills Matrix	TRANSPORTATION AND ROADS				
	H VAN DEN BERG	L ZIETSMAN	J KRUGER	R HORAK	L NDLOVU
Name					
Position	Director	Director	Director	Technical Director	Technical Director
<b>Major Roads and Freeways</b>					
Preliminary Route planning	*			*	
Detail design	*	*		*	
Authority liaison	*	*		*	
Contract documentation and Management	*	*			
Completion and Roll out	*	*			
<b>Road Pavement Design</b>					
Foundation Investigations	*			*	
Pavement design				*	
Borrow Pit investigation				*	
Rehabilitation including management systems				*	
Major Interchanges and Intersections	*	*	*		
<b>Transport Related Facilities</b>					
Parking studies			*		*
Traffic Modelling			*		*
Transport/Road master planning	*	*	*	*	*
Capacity Analysis of Road network			*		*
Traffic studies/access management			*		*
Site Assesments					
Signal design and synchronisation			*		*
Traffic Calming		*			
Non Motorised Traffic Modelling and design		*	*	*	*
<b>Economic Analysis</b>					
User Benefits			*		*
Feasibility studies			*		*