N1 SANRAL RELOCATION OF SERVICES SHEDULE

N1 WATERMAIN

Service Ref	Stake Value Reference(Median CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
WMB - 01	19506	Crossing NB from Median	City Of Cape Town	1220	Not Applicable	1220	44	Protect in Position	Existing pipe protection	Under carriageway
WMB - 02	19814 -19854	Crossing NB from Median	City Of Cape Town	1220	Not Applicable	1220	52	Protect in Position	Existing pipe protection	Under carriageway
WMB - 03	19918 - 19954	Crossing NB & SB	City Of Cape Town	1525	Not Applicable	1525	112	Protect in Position	Existing pipe protection	Under carriageway
WMB - 04	20460 - 20560	Crossing NB from Median	City Of Cape Town	1220	Not Applicable	1220	112	Protect in Position	Existing pipe protection	Under carriageway
EX.WM - 01	20720	Crossing NB & SB	City Of Cape Town	200	Not Applicable	200	92	Protect in Position	Existing pipe protection	Connect to existing
WMED - 02	21288	Crossing NB & SB	City Of Cape Town	200	Not Applicable	200	68	Protect in Position	Abandon	Connect to existing
WMD - 02	21298	Crossing NB & SB	City Of Cape Town	200	Not Applicable	200	68	Protect in Position	Encase in Concrete	Connect to existing
WEM WMB-01	21398	Crossing NB & SB	City Of Cape Town	1220	Not Applicable	1220	62	Protect in Position	Refer to WEM DWG	Refer to WEM DWG
WMD - 03	21830	Crossing NB & SB	City Of Cape Town	300	Not Applicable	300	300	Protect in Position	Refer to WEM DWG	Refer to WEM DWG
WMD - 04	22862	Crossing NB & SB	City Of Cape Town	300	Not Applicable	300	34	Relocate	New Pipeline	Refer to WEM DWG
WMD-05	23600 - 23640	Crossing NB & SB	City Of Cape Town	100	HDPE	110	78	Relocate	Encase in Concrete	Under carriageway
WMD-06	25088	Crossing NB & SB	City Of Cape Town	200	HDPE	200	50	Relocate	Encase in Concrete	Connect to existing
WMD - 07	25747	Crossing NB & SB	City Of Cape Town	1220	Not Applicable	1220	77	Relocate	Encase in Concrete	Under carriageway
WEM WMB-02	25922	Crossing NB & SB	City Of Cape Town	1220	Not Applicable	1220	48	Protect in Position	Refer to WEM DWG	Under carriageway
WMD - 08	26246 -26260	Crossing NB & SB	City Of Cape Town	200	Not Applicable	200	54	Protect in Position	Existing pipe protection	Under carriageway
WMB - 05	26590 - 26618	Crossing NB from Median	City Of Cape Town	1220	Not Applicable	1220	39	Protect in Position	Existing pipe protection	Under carriageway
WMD - 09	28764	Crossing SB from Median	City Of Cape Town	300	Not Applicable	300	47	Protect in Position	Existing pipe protection	Under carriageway

WATERMAIN INTERCHANGES

Service Ref	Stake Value Reference(CL)	Location	Service Owner	Services Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
		Brackenfell Boulevard	City Of Cape Town	100	uPVC	100	515	Remove & Replace	Existing pipe protection	Maintain continuity
		Goede Loop	City Of Cape Town	160	uPVC	160	160	Remove & Replace	Encase in Concrete	Maintain continuity
		Running along Brackenfell Boulevard	City Of Cape Town	200	uPVC	200	690	Remove & Replace	New Pipeline	Maintain continuity
		Brackenfell Boulevard and Goede Loop Int.	City Of Cape Town	375	HDPE	400	26	Remove & Replace	Encase in Concrete	Under Ramp
		Along Brackenfell Boulevard RHS Service Corridor	City Of Cape Town	375	uPVC	400	305	Remove & Replace	New Pipeline	Maintain continuity
		Crossing Goede Loop	City Of Cape Town	375	HDPE	400	30	Remove & Replace	Encase in Concrete	Maintain continuity
		Brackenfell Boulevard and Vredehoek Int.	City Of Cape Town	1220	Not available	1220	76	Protect in Position	Existing pipe protection	Under carriageway
		Okavango I/C Ramp C	City Of Cape Town	300	uPVC	300	22	Protect in Position	Existing pipe protection	Under Ramp
		Brighton I/C	City Of Cape Town	100	uPVC	100	104	Remove & Replace	Encase in Concrete	
		Brighton I/C	City Of Cape Town	200	uPVC	200	220	Relocate	New Pipeline	

N1 FOUL SEWER

Service Ref	Stake Value Reference(Median CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
EX.FSP - 02	19846 - 19864	Crossing NB & SB	City Of Cape Town	700	Not Applicable	Not Applicable	110	Protect in Position	Existing pipe protection	Under carriageway
EX.FSP - 04	19880 - 19900	Crossing NB & SB	City Of Cape Town	600	Not Applicable	Not Applicable	94	Protect in Position	Existing pipe protection	Under carriageway
EX.FSP - 05	20738	Crossing NB & SB	City Of Cape Town	200	Not Applicable	Not Applicable	90	Protect in Position	Existing pipe protection	Under carriageway
FSP - 04	21829	Crossing NB & SB	City Of Cape Town	225	Not Applicable	225	70	Protect in Position	Existing pipe protection	Under carriageway
EX.FSP - 06	21840	Crossing NB & SB	City Of Cape Town	225	Not Applicable	Not Applicable	78	Protect in Position	Existing pipe protection	Under carriageway
FSP - 06	25624	Crossing NB & SB	City Of Cape Town	375	Not Applicable	375	93	Protect in Position	Existing pipe protection	Under carriageway
FSP - 07	27604	Crossing NB & SB	City Of Cape Town	450	Not Applicable	450	65	Protect in Position	Existing pipe protection	Under carriageway

FOUL SEWER INTERCHANGES

Service Ref	Location	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
FSP - 02	Joostenberg Ramp A	Crossing Ramp A	City Of Cape Town	450	HDPE	450	42	Relay	Encase in Concrete	Under Ramp

TELKOM_OPENSERVE INTERCHANGES

Service Ref	Stake Value Reference(Median CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
TEL/OS-01	19223- 19295	TEL/OS/-01 (8XCABLES) running across N1 NB and SB.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	123	Protect in Position	Existing pipe protection	Under carraigeway & ramp
TEL/OS-02	20745-20785	TEL/OS/-02 (4XCABLES) Running across N1 NB and SB	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	56	Protect in Position	Existing pipe protection	Under carraigeway & ramp
NEW TEL_OS1	21182-21220	New TEL_OS1 running across N1 NB and SB.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	86	Relocate	New Pipeline	Under carriageway
NEW TEL_OS5	25005-25010	New TEL_OS5 running across N1 NB, SB and Ramps.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	46	Relocate	New Pipeline	Under carriageway
NEW TEL_OS8	27189-27200	New TEL_OS8 running across N1 NB, SB and Ramps.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	35	Relocate	New Pipeline	Under carriageway
EX.TEL_OS1	32665	EX.TEL_OS1 running across N1 NB and SB.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	50	Protect in Position	Existing pipe protection	Under carraigeway & ramp

N1 TELKOM_OPENSERVE

Service Ref	Stake Value Reference(CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
NEW TEL_OS2	Brackenfel I/C	Under across the loop ramp through the roundabout.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	52	New	New Pipeline	New Pipeline
EX.TEL_OS2	Brackenfel I/C	Running across Brackenfell Boulevard.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	30	Existing	Protect in Position	Existing pipe protection
NEW TEL_OS3	Brackenfel I/C	Brackenfell Boulevard and Vredehoek Int.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	17	New	New Pipeline	New Pipeline
NEW TEL_OS4	Brackenfel I/C	Brackenfell Boulevard and Vredehoek Int.	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	28	New	New Pipeline	New Pipeline
NEW TEL_OS6	Brighton I/C	Brighton I/C under Ramp A	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	28	New	New Pipeline	New Pipeline
NEW TEL_OS6.1	Brighton I/C	Crossing Van Riebeek Road at Brighton I/C	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	25	New	New Pipeline	New Pipeline
NEW TEL_OS7	Brighton I/C	Brighton I/C under Ramp D	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	20	New	New Pipeline	New Pipeline
NEW TEL_OS7.1	Brighton I/C	Crossing Van Riebeek Road at Brighton I/C	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	25	New	New Pipeline	New Pipeline
NEW TEL_OS7.2	Brighton I/C	Running Parallel to Van Riebeek Road	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	516	New	New Pipeline	New Pipeline
NEW TEL_OS9	Joostenberg I/C	Running across Ramp A Joostenberg I/C	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	22	New	New Pipeline	New Pipeline
NEW TEL_OS9.1	Joostenberg I/C	Running across along Joostenberg	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	356	New	New Pipeline	New Pipeline
NEW TEL_OS10	Koelenof I/C	Running across Ramp A Koelenof	TELKOM_OPENSERVE	Uknown	Uknown	As per Telkom_Openserve specification	33	Existing	New Pipeline	New Pipeline

N1 FMS FIBER

Service Ref	Stake Value Reference(Median CL)	Location	Service Owner	Service Description				Action	Method	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
EX. FMS - 01	20608	EX.FMS - 01 running across N1 NB and SB.	SANRAL	Unknown	As per specification for FMS	As per specification for FMS	64	Protect in Position	Existing pipe protection	Under carriageway
NEW FMS - 02	21165	Running across N1 NB and SB.	SANRAL	Unknown	As per specification for FMS	As per specification for FMS	62	New Pipeline	New Pipeline	Under carriageway
NEW FMS - 06	27598	Running across N1 NB and SB.	SANRAL	Unknown	As per specification for FMS	As per specification for FMS	56	New Pipeline	New Pipeline	Under carriageway
NEW FMS - 08	30422	Running across N1 NB and SB.	SANRAL	Unknown	As per specification for FMS	As per specification for FMS	47	New Pipeline	New Pipeline	Under carriageway
NEW FMS - 09	27598 - 30422	Running Parallell to the N1 SB on the verge	SANRAL	Unknown	As per specification for FMS	As per specification for FMS	As per site conditions	New Pipeline	New Pipeline	Approximate ±5km length of FMS cables and manholes requires protection and relay. Actual length of FMS as per site conditions. Kilometer marks are indicative of start and end of FMS impact.

FMS FIBER - INTERCHANGES

Service Ref	Stake Value Reference(CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
NEW FMS - 01	Brackenfel I/C	Crossing the Loop Ramp	SANRAL	Uknown	As per specification for FMS	As per specification for FMS	24	New	New Pipeline	New Pipeline
EX. FMS - 02	Okavango I/C	Crossing Ramp A	SANRAL	Uknown	Uknown	Existing	21	Existing	Protect in Position	Existing pipe protection
PPFBR-02	Okavango I/C	Crossing under the SB Bridge	SANRAL	Uknown	Uknown	Existing	20	Existing	Protect in Position	Existing pipe protection
PPFBR-03	Okavango I/C	Crossing under the SB Bridge	SANRAL	Uknown	Uknown	Existing	20	Existing	Protect in Position	Existing pipe protection
PPFBR-04	Okavango I/C	Crossing Ramp B	SANRAL	Uknown	Uknown	Existing	17	Existing	New Pipeline	New Pipeline
EX. FMS - 03	Brighton I/C	Crossing Ramp A	SANRAL	Uknown	Uknown	Existing	18	Existing	Protect in Position	Existing pipe protection
NEW FMS - 03	Brighton I/C	Across Brighton bridge	SANRAL	Uknown	As per specification for FMS	As per specification for FMS	37	New	New Pipeline	New Pipeline
NEW FMS - 04	Brighton I/C	Running across Ramp B Brighton	SANRAL	Uknown	As per specification for FMS	As per specification for FMS	18	New	New Pipeline	New Pipeline
EX.FMS - 04	Joostenberg Interchange	Running across Ramp A Joostenberg	SANRAL	Uknown	Uknown	Uknown	33	Existing	Protect in Position	Existing pipe protection
NEW FMS - 05	Joostenberg I/C	Running across the bridge Joostenberg	SANRAL	Uknown	As per specification for FMS	As per specification for FMS	36	New	New Pipeline	New Pipeline
EX.FMS - 04.1	Joostenberg I/C	Running across Ramp B Joostenberg	SANRAL	Uknown	Uknown	Existing	10	Existing	Protect in Position	Existing pipe protection
NEW FMS - 07	Koelenof I/C	Running across Ramp D - 1 Koelenof	SANRAL	Uknown	Uknown	As per specification for FMS	32	New	New Pipeline	New Pipeline

MTN FIBER - INTERCHANGES

Service Ref	Stake Value Reference(CL)	Location	Service Owner	Service Description				Action	Method of Protection/Relocation	Remarks
				Existing Size (mm)	Material	Proposed Size (mm)	Length (m)			
EX.MTN-01	Brackenfel I/C	Crossing Brackenfell Boulevard	MTN	Uknown	Uknown	As per specification for MTN	44	Existing	Existing pipe protection	New Pipeline
EX.MTN-02	Brackenfel I/C	Crossing Goede Loop Street	MTN	Uknown	Uknown	As per specification for MTN	21	Existing	Existing pipe protection	Existing pipe protection
EX.MTN-03	Okavango I/C	Crossing under Ramp D and Ramp C	MTN	Uknown	Uknown	As per specification for MTN	100	Existing	Existing pipe protection	Existing pipe protection
EX.MTN-04	Brighton I/C	Crossing Van Riebeeck Street	MTN	Uknown	Uknown	As per specification for MTN	44	Existing	Existing pipe protection	Existing pipe protection

No.	DATE	REVISION	
V1	08/03/2024	ORIGINAL VERSION	

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ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.

Date:

THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

RELOCATION OF SERVICES SCHEDULE

SCALE @ A0: NTS | SHEET 01 OF 01

PROJECT NUMBER	N001-010-2021/1
DRAWING LOCATION DATA	START / END
ROUTE	N01 / N01
SECTION	01 / 01
DRAWING km DISTANCE	
DRAWING TYPE	ROADS - UTILITIES
BRIDGE/STRUCTURE No.	N/A
CONSULTANT DRAWING No.	VER
SANRAL DOCUMENT #	XXXXXX / V1

312-00827-01-N1SSR01