TELKOM_OPENSERVE RELOCTAION WGS 84 Lo19

NAME	Y	X
TEL_OS-01	-3 749 137.247	-29 358.981
TEL_OS-01.1	-3 749 137.226	-29 328.949
TEL_OS-02	-3 749 045.825	-29 370.654
TEL_OS-03	-3 748 911.033	-29 368.731
TEL_OS-04	-3 748 911.313	-29 313.990
TEL_OS-05	-3 748 898.692	-29 312.878
TEL_OS-06	-3 748 824.657	-29 367.499
TEL_OS-07	-3 748 647.106	-29 351.456
TEL_OS-08	-3 748 619.876	-29 346.587
TEL_OS-09	-3 748 572.086	-29 345.416
TEL_OS-10	-3 748 572.098	-29 317.438
TEL_OS-11	-3 746 709.673	-26 199.557
TEL_OS-12	-3 746 649.824	-26 246.289
TEL_OS-13	-3 746 597.129	-26 304.614
TEL_OS-14	-3 745 805.992	-24 487.638
TEL_OS-14	-3 746 571.845	-26 331.993
TEL_OS-15	-3 746 500.674	-26 411.278
TEL_OS-16	-3 746 396.018	-26 601.886
TEL_OS-16.1	-3 746 374.400	-26 591.233
TEL_OS-17	-3 745 646.667	-24 489.900

TELKOM_OPENSERVE RELOCTAION WGS 84 Lo19

NAME	Y	X
TEL_OS-18	-3 745 291.029	-24 500.332
TEL_OS-20	-3 745 241.694	-24 491.326
TEL_OS-21	-3 745 220.739	-24 470.034
TEL_OS-22	-3 745 248.489	-24 498.671
TEL_OS-23	-3 745 272.499	-24 536.870
TEL_OS-24	-3 745 378.567	-24 604.826
TEL_OS-25	-3 745 410.469	-24 627.867
TEL_OS-26	-3 745 419.895	-24 636.965

WATERMAIN RELOCATION WGS84 Lo19

NAME	Y	X
WM-01	29 353.991	3 749 229.481
WM-02	29 359.639	3 749 229.336
WM-03	29 357.064	3 749 140.152
WM-04	29 311.014	3 749 141.018
WM-05	29 297.824	3 749 126.593
WM-06	29 328.743	3 749 098.381
WM-07	29 313.791	3 748 865.512
WM-08	29 280.798	3 748 838.539
WM-09	29 312.861	3 748 797.488
WM-10	29 311.842	3 748 623.343
WM-11	29 316.955	3 748 623.324
WM-12	26 167.416	3 746 689.886
WM-13	26 301.520	3 746 514.837

FOUL SEWER STRUCTURES SETTING–OUT DATA WGS84 (Lo19)

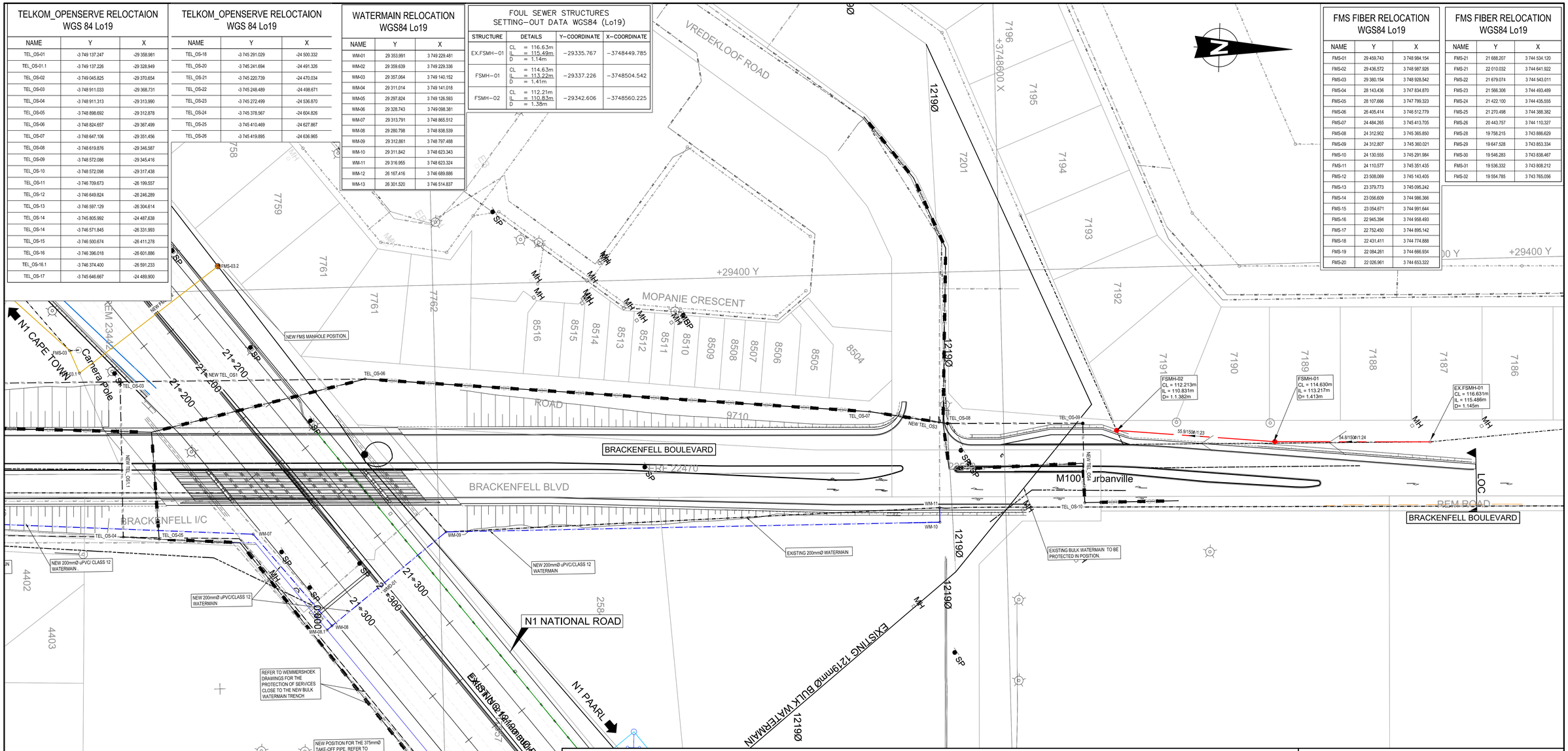
STRUCTURE	DETAILS	Y–COORDINATE	X–COORDINATE
EX.FSMH–01	CL = 116.63m IL = 115.49m D = 1.14m	–29335.767	–3748449.785
FSMH–01	CL = 114.63m IL = 113.22m D = 1.41m	–29337.226	–3748504.542
FSMH–02	CL = 112.21m IL = 110.83m D = 1.38m	–29342.606	–3748560.225

FMS FIBER RELOCATION WGS84 Lo19

NAME	Y	X
FMS-01	29 459.743	3 748 984.154
FMS-02	29 436.572	3 748 987.926
FMS-03	29 380.154	3 748 928.542
FMS-04	28 143.436	3 747 834.870
FMS-05	28 107.666	3 747 799.323
FMS-06	26 405.414	3 746 512.779
FMS-07	24 484.265	3 745 413.705
FMS-08	24 312.902	3 745 365.850
FMS-09	24 312.807	3 745 360.021
FMS-10	24 130.555	3 745 291.984
FMS-11	24 110.577	3 745 351.435
FMS-12	23 508.069	3 745 143.405
FMS-13	23 379.773	3 745 095.242
FMS-14	23 056.609	3 744 986.366
FMS-15	23 054.671	3 744 991.644
FMS-16	22 945.394	3 744 958.493
FMS-17	22 752.450	3 744 895.142
FMS-18	22 431.411	3 744 774.888
FMS-19	22 084.261	3 744 666.934
FMS-20	22 026.961	3 744 653.322

FMS FIBER RELOCATION WGS84 Lo19

NAME	Y	X
FMS-21	21 688.207	3 744 534.120
FMS-21	22 010.032	3 744 641.922
FMS-22	21 679.074	3 744 543.011
FMS-23	21 566.306	3 744 493.489
FMS-24	21 422.100	3 744 435.555
FMS-25	21 270.498	3 744 388.382
FMS-26	20 443.757	3 744 110.327
FMS-28	19 758.215	3 743 886.629
FMS-29	19 647.528	3 743 853.334
FMS-30	19 546.283	3 743 838.467
FMS-31	19 536.332	3 743 808.212
FMS-32	19 554.785	3 743 765.056



LEGEND

- EXISTING FOUL SEWER PIPE
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING FOUL SEWER MANHOLE
- EXISTING WATERMAIN PIPE
- EXISTING BULK WATER PIPE
- EXISTING ELECTRIC BOX
- EXISTING STORMWATER CATCHPIT
- EXISTING CAMERA
- EXISTING SIGN BOARD/VMS
- EXISTING GPO MANHOLE
- EXISTING TELKOM/OPENSERVE FIBRE
- EXISTING ELECTRICAL CABLE FOR FMS
- EXISTING GANTRIES
- EXISTING ESKOM HV UG CABLE
- EXISTING ESKOM HV OG CABLE
- EXISTING LIGHT POLE
- EXISTING TELKOM CABLE
- EXISTING SANRAL OPTIC FIBRE
- EXISTING MTN FIBRE
- EXISTING POWER SUPPLY
- CONTROL POINT
- SIGN POST

LEGEND (NEW SERVICES)

- NEW FOUL SEWER PIPE
- NEW FOUL SEWER MANHOLE
- NEW WATERMAIN PIPE
- NEW TELKOM / OPENSERVE CABLE
- NEW TELKOM / OPENSERVE MANHOLE
- NEW 1200mmØ BULK WATERMAIN WEMMERSHOEK PIPE
- NEW SANRAL OPTIC FIBRE
- NEW SANRAL OPTIC FIBRE MANHOLE

SERVICE NOTES:

1. WATER AND SEWER PIPES :
   - LONG SKEW CROSSINGS TO BE RELOCATED PERPENDICULAR TO ROAD WHERE POSSIBLE.
   - VALVE CHAMBERS AND MANHOLES TO BE RELOCATED OUTSIDE OF EXTENT OF WIDENED ROADWAY.
   - SIZE & CLASS OF PIPES TO BE AS PER SERVICE OWNER SPECIFICATIONS UNDER ROADWAY.

NOTES:

1. THE CONTRACTOR MUST INFORM THE ENGINEER AS SOON AS POSSIBLE SHOULD ANY DISCREPANCIES AND/OR AMBIGUITIES ARISE FROM INFORMATION PROVIDED ON THIS DRAWING.
2. FOR ALL TYPICAL ROAD CROSS-SECTIONS, REFER TO DRAWINGS 312-00827-01-RTC01 TO RTC08.
3. FOR ALL PAVEMENT DETAILS, REFER TO DRAWINGS 312-00827-01-RTCP01 TO RTCP06.
4. FOR ALL ROAD SETTING-OUT DATA, REFER TO DRAWINGS 312-00827-01-
5. FOR ALL LONGSECTION INFORMATION, REFER TO DRAWINGS 312-00827-01-
6. FOR ALL ROAD CROSS-SECTION INFORMATION,REFER TO DRAWINGS 312-00827-01-
7. FOR ALL EXISTING SERVICES INFORMATION, REFER TO THE SERVICES LAYOUTS 312-00827-01-
8. FOR ALL DRAINAGE INFORMATION, REFER TO DRAINAGE LAYOUTS.

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

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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

ACCEPTANCE

THIS ACCEPTANCE IS FOR PROCEDURAL AND 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:

PROJECT DESCRIPTION

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

SERVICES LAYOUT PLAN
- BRACKENFELL INTERCHANGE -
RELOCATION OF SERVICES LAYOUT

SCALE @ A0: 1 : 1000 | SHEET 02 OF 02

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE		
DRAWING TYPE	ROAD - UTILITIES	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-BFROF02	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-BFROF02