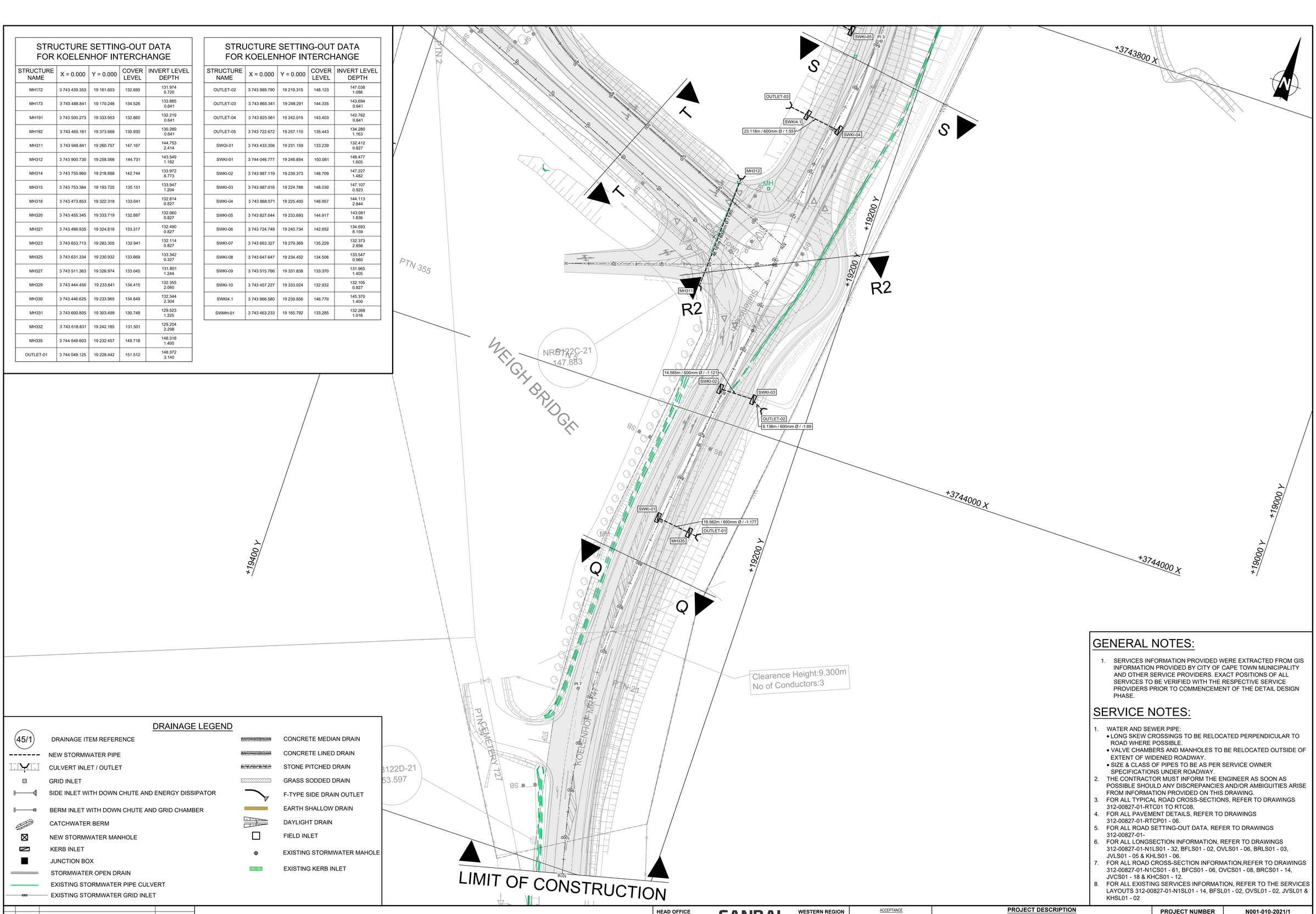
STRUCTURE SETTING-OUT DATA FOR KOELENHOF INTERCHANGE

STRUCTURE NAME	X = 0.000	Y = 0.000	COVER LEVEL	INVERT LEVEL DEPTH
MH172	3 743 439.353	19 161.603	132.695	131.974 0.720
MH173	3 743 488.841	19 170.246	134.526	133.885 0.641
MH191	3 743 500.273	19 333.953	132.860	132.219 0.641
MH192	3 743 465.161	19 373.668	130.930	130.289 0.641
MH311	3 743 948.841	19 260.757	147.167	144.753 2.414
MH312	3 743 900.730	19 258.566	144.731	143.549 1.182
MH314	3 743 755.960	19 218.888	142.744	133.972 8.773
MH315	3 743 753.384	19 193.725	135.151	133.947 1.204
MH318	3 743 473.853	19 322.318	133.641	132.814 0.827
MH320	3 743 455.345	19 333.719	132.887	132.060 0.827
MH321	3 743 498.935	19 324.816	133.317	132.490 0.827
MH323	3 743 653.713	19 283.305	132.941	132.114 0.827
MH325	3 743 631.334	19 230.932	133.669	133.342 0.327
MH327	3 743 511.363	19 326.974	133.045	131.801 1.244
MH329	3 743 444.450	19 233.641	134.415	132.355 2.060
MH330	3 743 446.625	19 233.965	134.649	132.344 2.304
MH331	3 743 600.805	19 303.499	130.748	129.523 1.225
MH332	3 743 618.831	19 242.185	131.501	129.204 2.298
MH335	3 744 048.603	19 232.457	149.718	148.318 1.400
OUTLET-01	3 744 049.125	19 228.442	151.512	148.372 3.140

STRUCTURE SETTING-OUT DATA FOR KOELENHOF INTERCHANGE

STRUCTURE NAME	X = 0.000	Y = 0.000	COVER LEVEL	INVERT LEVEL DEPTH
OUTLET-02	3 743 989.790	19 219.315	148.123	147.038 1.086
OUTLET-03	3 743 865.341	19 248.291	144.335	143.694 0.641
OUTLET-04	3 743 825.561	19 242.015	143.403	142.762 0.641
OUTLET-05	3 743 722.672	19 257.110	135.443	134.280 1.163
SWGI-01	3 743 433.356	19 231.159	133.239	132.412 0.827
SWKI-01	3 744 046.777	19 246.854	150.081	148.477 1.605
SWKI-02	3 743 987.119	19 239.373	148.709	147.227 1.482
SWKI-03	3 743 987.016	19 224.788	148.030	147.107 0.923
SWKI-04	3 743 868.571	19 225.400	146.957	144.113 2.844
SWKI-05	3 743 827.044	19 233.693	144.917	143.081 1.836
SWKI-06	3 743 724.749	19 240.734	142.852	134.693 8.159
SWKI-07	3 743 663.327	19 279.369	135.229	132.373 2.856
SWKI-08	3 743 647.647	19 234.452	134.506	133.547 0.960
SWKI-09	3 743 515.766	19 331.838	133.370	131.965 1.405
SWKI-10	3 743 457.227	19 333.024	132.932	132.105 0.827
SWKI4.1	3 743 866.580	19 239.856	146.770	145.370 1.400
SWMH-01	3 743 463.233	19 165.792	133.285	132.269 1.016



DRAINAGE LEGEND

- 45/1 — DRAINAGE ITEM REFERENCE
- NEW STORMWATER PIPE
- CULVERT INLET / OUTLET
- GRID INLET
- SIDE INLET WITH DOWN CHUTE AND ENERGY DISSIPATOR
- BERM INLET WITH DOWN CHUTE AND GRID CHAMBER
- CATCHWATER BERM
- NEW STORMWATER MANHOLE
- KERB INLET
- JUNCTION BOX
- STORMWATER OPEN DRAIN
- EXISTING STORMWATER PIPE CULVERT
- EXISTING STORMWATER GRID INLET
- CONCRETE MEDIAN DRAIN
- CONCRETE LINED DRAIN
- STONE PITCHED DRAIN
- GRASS SODDED DRAIN
- F-TYPE SIDE DRAIN OUTLET
- EARTH SHALLOW DRAIN
- DAYLIGHT DRAIN
- FIELD INLET
- EXISTING STORMWATER MAHOLE
- EXISTING KERB INLET

GENERAL NOTES:

1. SERVICES INFORMATION PROVIDED WERE EXTRACTED FROM GIS INFORMATION PROVIDED BY CITY OF CAPE TOWN MUNICIPALITY AND OTHER SERVICE PROVIDERS. EXACT POSITIONS OF ALL SERVICES TO BE VERIFIED WITH THE RESPECTIVE SERVICE PROVIDERS PRIOR TO COMMENCEMENT OF THE DETAIL DESIGN PHASE.

SERVICE NOTES:

1. WATER AND SEWER PIPE:
   - 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.
2. THE CONTRACTOR MUST INFORM THE ENGINEER AS SOON AS POSSIBLE SHOULD ANY DISCREPANCIES AND/OR AMBIGUITIES ARISE FROM INFORMATION PROVIDED ON THIS DRAWING.
3. FOR ALL TYPICAL ROAD CROSS-SECTIONS, REFER TO DRAWINGS 312-00827-01-RTC01 TO RTC08.
4. FOR ALL PAVEMENT DETAILS, REFER TO DRAWINGS 312-00827-01-RTCP01 - 06.
5. FOR ALL ROAD SETTING-OUT DATA, REFER TO DRAWINGS 312-00827-01-
6. FOR ALL LONGSECTION INFORMATION, REFER TO DRAWINGS 312-00827-01-N1LS01 - 32, BFLS01 - 02, OVLS01 - 06, BRLS01 - 03, JVLS01 - 05 & KHLS01 - 06.
7. FOR ALL ROAD CROSS-SECTION INFORMATION,REFER TO DRAWINGS 312-00827-01-N1CS01 - 61, BFCS01 - 06, OVCS01 - 08, BRCS01 - 14, JVCS01 - 18 & KHCS01 - 12.
8. FOR ALL EXISTING SERVICES INFORMATION, REFER TO THE SERVICES LAYOUTS 312-00827-01-N1SL01 - 14, BFSL01 - 02, OVSL01 - 02, JVSL01 & KHSL01 - 02

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

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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg No.1998/009884/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
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Bellville
7530

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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)

DRAINAGE LAYOUT PLAN
KOELENHOF INTERCHANGE

SCALE @ A0: 1 : 1000 | SHEET 03 OF 03

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE		
DRAWING TYPE	DRAINAGE - LAYOUT PLAN	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-KHDL03	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-KHDL03