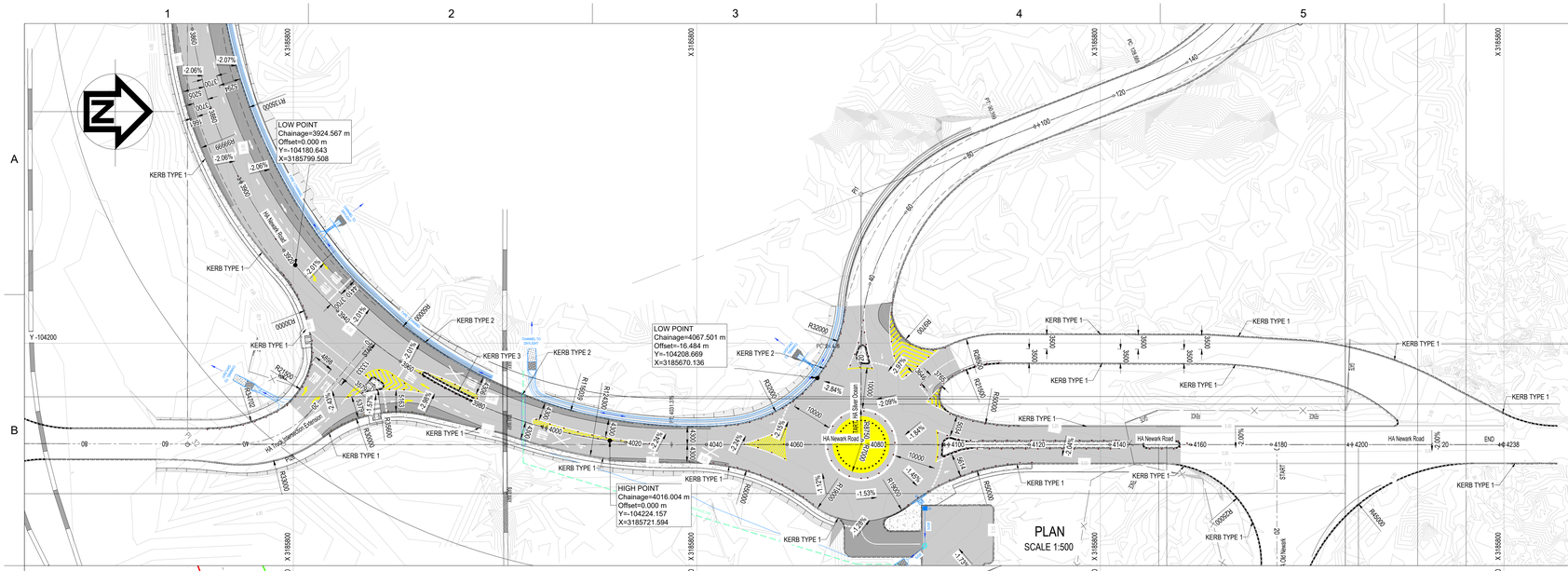
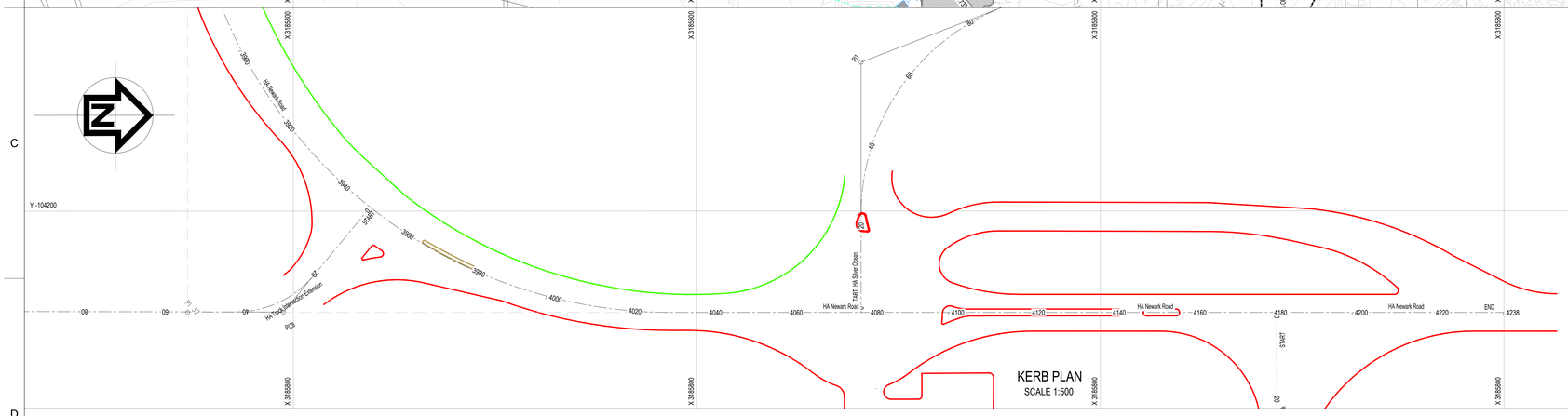
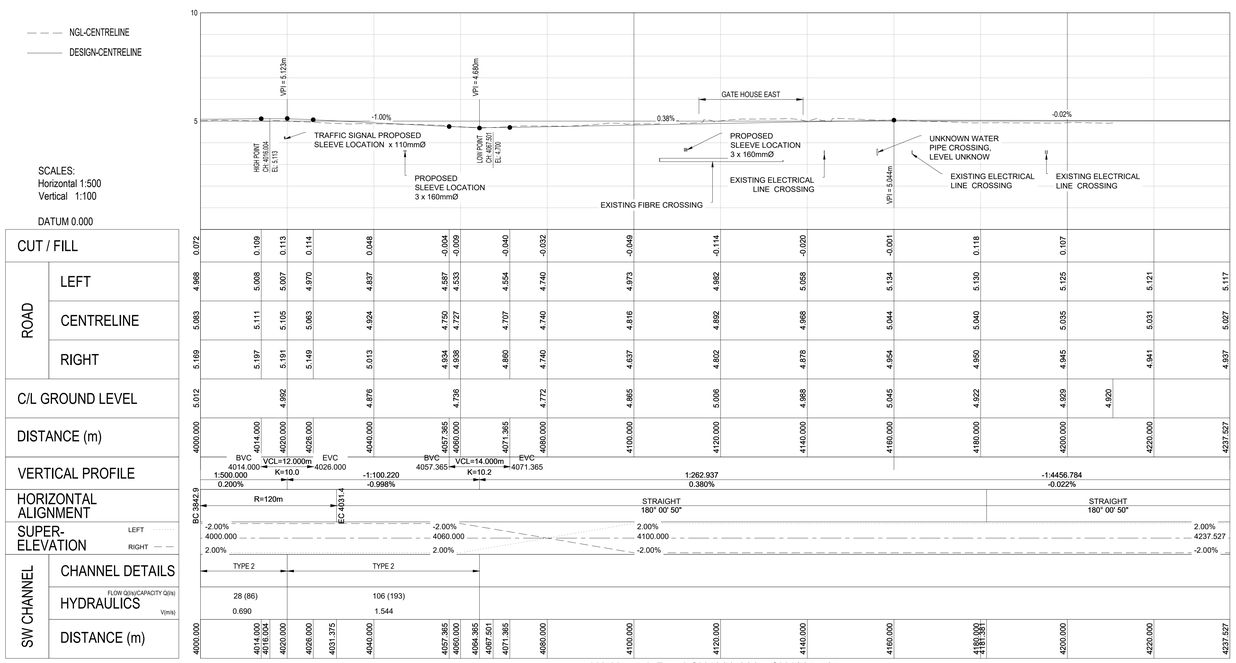






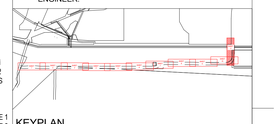
REFERENCE DRAWINGS

1006614-DRG-08-NW-CC-U008	NEWARK SETTING OUT LAYOUT SHEET 8 OF 9
1006614-DRG-08-NW-CC-U009	NEWARK SETTING OUT LAYOUT SHEET 9 OF 9
1006614-DRG-09-NW-CC-I012	SETTING OUT PLAN: NEWARK / TRUCK STAGING EAST INTERSECTION
1006614-DRG-09-NW-CC-I013	SETTING OUT PLAN: NEWARK / ACCESS ROUND ABOUT INTERSECTION
1006614-DRG-09-NW-CC-I014	SETTING OUT PLAN: NEWARK / OLD NEWARK INTERSECTION
1006614-DRG-12-NW-CC-U008	NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 8 OF 18
1006614-DRG-12-NW-CC-U009	NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 9 OF 18
1006614-DRG-12-NW-CC-U017	NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 17 OF 18
1006614-DRG-12-NW-CC-U018	NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 18 OF 18
1006614-DRG-13-NW-CC-U008	NEWARK ROAD SIGNAGE LAYOUT PLAN SHEET 8 OF 9
1006614-DRG-13-NW-CC-U009	NEWARK ROAD SIGNAGE LAYOUT PLAN SHEET 9 OF 9
1006614-DRG-08-NW-CC-D003	KERBING DETAILS 1
1006614-DRG-08-NW-CC-D005	SIDEWALK DETAILS
1006614-DRG-14-NW-CC-D001	ROAD DRAINAGE : KERB INLET DETAILS
1006614-DRG-14-NW-CC-D002	ROAD DRAINAGE: GRID INLET DETAILS
1006614-DRG-14-NW-CC-D003	ROAD DRAINAGE: JUNCTION BOX DETAILS 1
1006614-DRG-14-NW-CC-D004	ROAD DRAINAGE: JUNCTION BOX DETAILS 2
1006614-DRG-14-NW-CC-D005	ROAD DRAINAGE: PIPE TRENCHING DETAILS
1006614-DRG-14-NW-CC-D006	ROAD DRAINAGE: CHANNEL DETAILS
1006614-DRG-14-NW-CC-D007	ROAD DRAINAGE: PIPE CULVERT INLET / OUTLET DETAILS
1006614-DRG-14-NW-CC-D008	ROAD DRAINAGE: SILT TRAP DETAILS - TYPE 1
1006614-DRG-14-NW-CC-D009	ROAD DRAINAGE: SILT TRAP DETAILS - TYPE 2
1006614-DRG-14-NW-CC-D010	ROAD DRAINAGE: DRAINAGE CHUTE DETAILS
1006614-DRG-14-NW-CC-D011	ROAD DRAINAGE: SUBSOIL DRAINAGE DETAILS

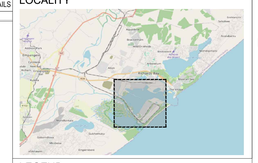
NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

KEYPLAN



LOCALITY



LEGEND

SYMBOL	DESCRIPTION
	PROPOSED ROAD
	EXISTING ROAD
	PROPOSED SIDEWALK/MEDIAN
	PROPOSED GUARD RAIL
	PROPOSED HAND RAIL
	EXISTING FENCE
	PROPOSED RELOCATED FENCE
	EXISTING ROADWAY
	PROPOSED VERTICAL RETAINING WALL
X%	ROAD SLOPE
FL####	FINAL LEVEL ROAD SETTING OUT POINT
TYPE 1 CHANNEL	STORMWATER CHANNEL TYPE 1
TYPE 2 CHANNEL	STORMWATER CHANNEL TYPE 2
TYPE 3 CHANNEL	STORMWATER CHANNEL TYPE 3
TYPE 4 CHANNEL	STORMWATER CHANNEL TYPE 4
TYPE 5 CHANNEL	STORMWATER CHANNEL TYPE 5
	STORMWATER JUNCTION BOX
	STORMWATER GRID INLET
	STORMWATER KERB INLET
TYPE 1A TRAP	STORMWATER TRAP TYPE 1A
TYPE 1B TRAP	STORMWATER TRAP TYPE 1B
TYPE 2A TRAP	STORMWATER TRAP TYPE 2A
	STORMWATER CHUTE
	KERB TYPE 1
	KERB TYPE 2
	KERB TYPE 3

SETTING OUT DATA-HA Newark Road

NAME	CH	X	Y	DETAILS
START	0.000 38.889	3185884.161 3185895.794	+100282.287 +100319.395	0.000 38.889
BCC PI ECC	38.889 83.496	3185895.794 3185902.532 3185901.646	+100319.395 +100340.888 +100363.396	R 130.000m DA 19°39'40" TL 22.525m AL 44.607m
PI20	38.889 83.496	3185895.794 3185902.532 3185901.646	+100319.395 +100340.888 +100363.396	R 130.000m DA 19°39'40" TL 22.525m AL 44.607m
BCC1 PI1 ECC1	143.975 213.123	3185899.267 3185897.907 3185897.875	+100423.828 +100458.380 +100492.958	R 1800.000m DA 2°12'00" TL 34.579m AL 69.149m
BCC2 PI2 ECC2	264.572 279.481	3185897.827 3185897.820 3185897.591	+100544.407 +100551.862 +100559.314	R 500.000m DA 1°42'30" TL 7.455m AL 14.909m
BCC3 PI3 ECC3	352.850 368.414	3185895.335 3185895.096 3185895.099	+100632.647 +100640.426 +100648.209	R 500.000m DA 1°47'00" TL 7.780m AL 15.564m
PI23	2489.689 2543.864	3185895.907 3185895.918 3185881.597	+102769.464 +102797.245 +102821.050	R 100.000m DA 31°03'00" TL 27.781m AL 54.194m
PI24	2632.669 2678.319	3185836.821 3185823.795 3185823.801	+102897.147 +102917.202 +102940.606	R 84.000m DA 31°08'20" TL 23.404m AL 45.600m
PI25	3280.749 3289.788	3185823.767 3185823.767 3185823.971	+103543.037 +103547.557 +103552.072	R 200.000m DA 2°35'20" TL 4.520m AL 9.039m
PI26	3336.087 3345.125	3185826.060 3185826.264 3185826.264	+103598.324 +103602.840 +103607.359	R 200.000m DA 2°35'20" TL 4.520m AL 9.039m
BCC32 PI32 ECC32	3842.916 4031.375	3185826.236 3185826.229 3185706.266	+104105.150 +104225.114 +104225.144	R 120.000m DA 89°39'00" TL 119.963m AL 168.459m
END	4181.361 4237.527	3185590.259 3185550.114	+104225.181 +104225.195	4181.361 56.146

SETTING OUT DATA-HA Old Newark

NAME	CH	X	Y	DETAILS
START	0.000 405.286	3185556.259 3185556.505	+104225.181 +104830.467	0.000 405.286
PI7	405.286 641.605	3185556.505 3185556.580 3185624.444	+104830.467 +104752.187 +104853.234	R 400.000m DA 33°51'00" TL 121.721m AL 236.319m
PI8	984.909 1142.193	3185815.848 3185859.984 3185920.807	+105138.230 +105203.947 +105254.856	R 560.000m DA 16°05'30" TL 79.163m AL 157.284m
PI9	1374.447 1537.865	3186098.466 3186170.152 3186251.340	+105404.214 +105464.413 +105417.818	R 134.000m DA 69°52'30" TL 93.609m AL 163.418m
END	1537.865 2072.936	3186251.340 3186715.070	+105417.818 +105150.881	1537.865 535.071

SETTING OUT DATA-HA Truck Intersection Extension

NAME	CH	X	Y	DETAILS
START	0.000 21.933	3185780.960 3185794.934	+104199.010 +104215.915	0.000 21.933
PI28	21.933 43.984	3185794.934 3185802.453 3185814.253	+104215.915 +104225.011 +104224.987	R 25.000m DA 50°32'10" TL 11.801m AL 22.051m
END	43.984 112.302	3185814.253 3185882.571	+104224.987 +104224.851	43.984 68.318

NO	DESCRIPTION	BY	CHKD	APPD	DATE
E2	FOR TENDER	RR	HVDM	HVDM	18 07 25
E1	FOR TENDER	RR	HVDM	HVDM	26 06 25

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	W. BOTES		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25
DESIGNED	R. RANGE		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25

PR.ENG. / PR.TECH./PR. ARCH

NAME	H. VAN DER MERWE	DATE
SIGNATURE		18 07 25
REG. NUMBER	201270130	
TITLE	Pr. TechENG	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME	DATE
SIGNATURE	
REG. NUMBER	
SCALE	0.368888889

TRANSNET

Transnet National Ports Authority

TRANSNET SOC Ltd : REG No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY
TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFRICA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE (REPAIRS TO PORT ROADS)
NEWARK ROAD LONGSECTION PLAN
CH4000 - CH4237.527 SHEET 11 OF 11

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
	PROJECT DRG. NO.	REV.
	1006614-DRG-09-NW-CC-L011	T2