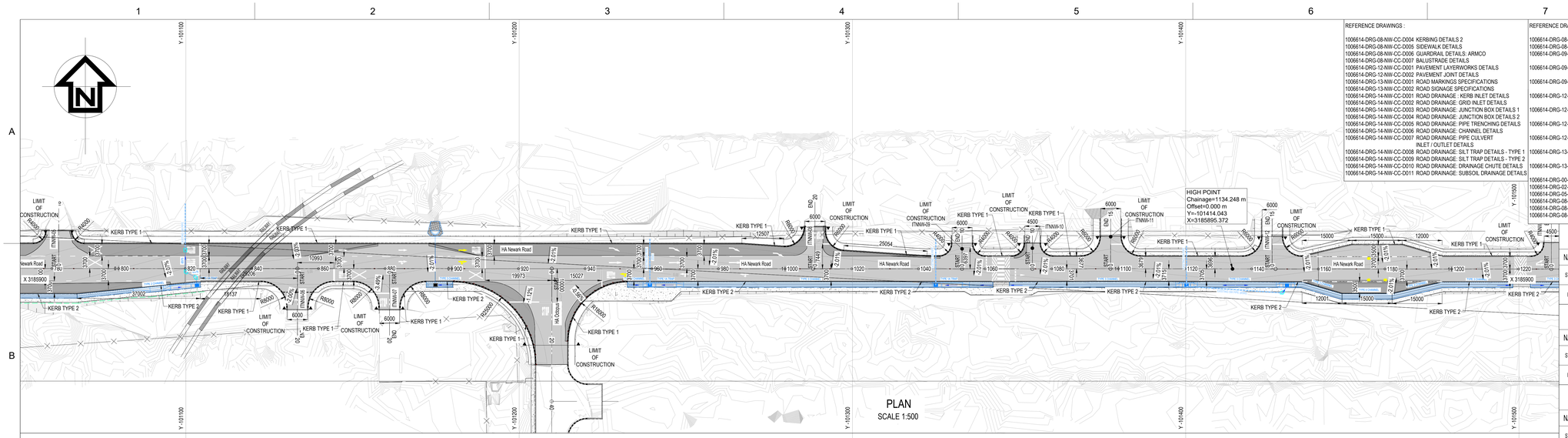
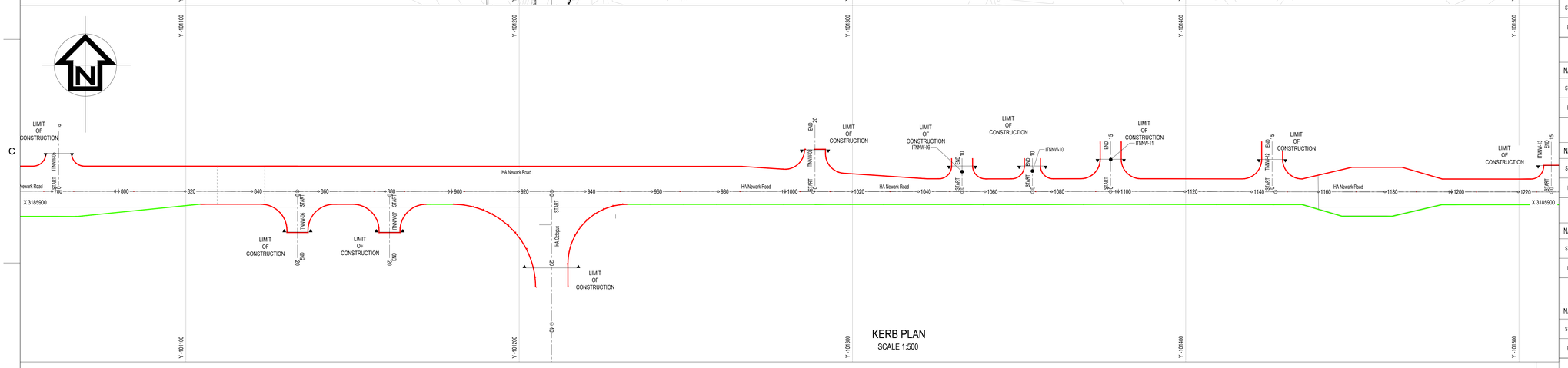
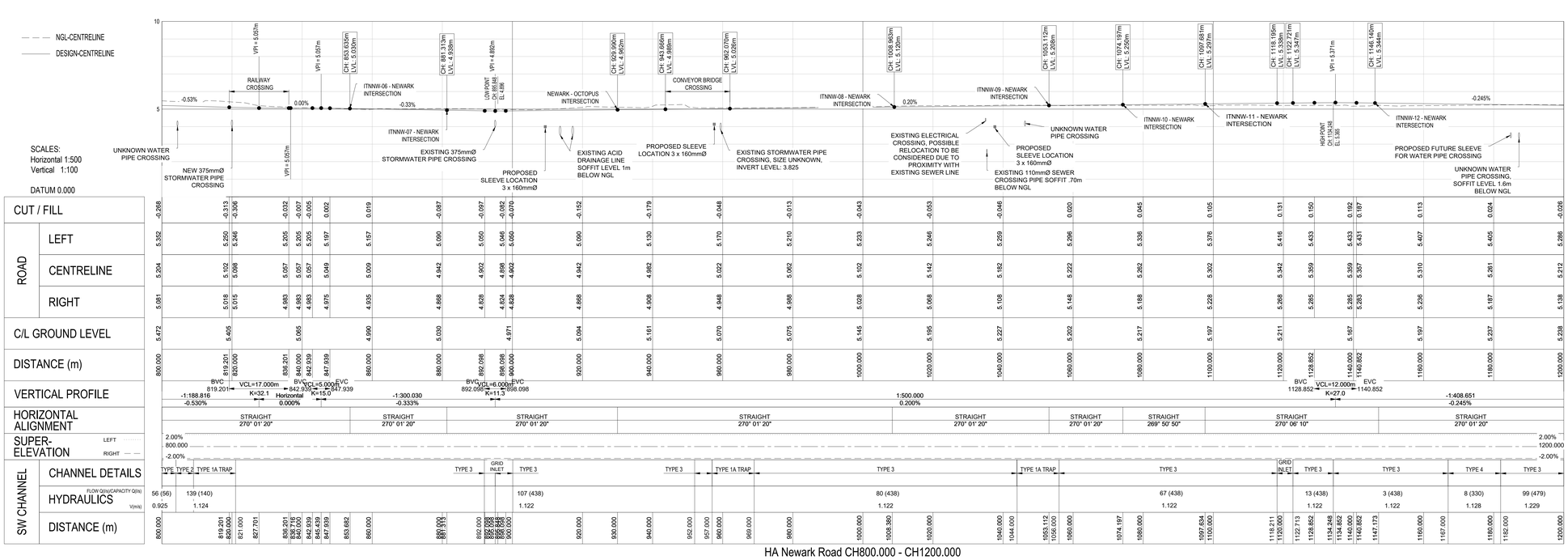






REFERENCE DRAWINGS :

1006614-DRG-08-NW-CC-D004 KERBING DETAILS 2
1006614-DRG-08-NW-CC-D005 SIDEWALK DETAILS
1006614-DRG-08-NW-CC-D006 QUARDRAIL DETAILS: ARMCO
1006614-DRG-08-NW-CC-D007 BALUSTRADE DETAILS
1006614-DRG-12-NW-CC-D001 PAVEMENT LAYERWORKS DETAILS
1006614-DRG-12-NW-CC-D002 PAVEMENT JOINT DETAILS
1006614-DRG-13-NW-CC-D001 ROAD MARKINGS SPECIFICATIONS
1006614-DRG-13-NW-CC-D002 ROAD SIGNAGE SPECIFICATIONS
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

REFERENCE DRAWINGS :

1006614-DRG-08-NW-CC-U002 NEWARK SETTING OUT LAYOUT SHEET 2 OF 9
1006614-DRG-08-NW-CC-U003 NEWARK SETTING OUT LAYOUT SHEET 3 OF 9
1006614-DRG-09-NW-CC-I004 SETTING OUT PLAN: NEWARK / WORKSHOP 5 AND OCTOPUS INTERSECTIONS
1006614-DRG-09-NW-CC-I005 SETTING OUT PLAN: NEWARK /PORT RAIL ACCESS INTERSECTIONS
1006614-DRG-09-NW-CC-I006 SETTING OUT PLAN: NEWARK / SAXON INTERSECTION
1006614-DRG-12-NW-CC-U002 NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 2 OF 18
1006614-DRG-12-NW-CC-U003 NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 3 OF 18
1006614-DRG-12-NW-CC-U011 NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 11 OF 18
1006614-DRG-12-NW-CC-U012 NEWARK ROAD PAVEMENT LAYOUT PLAN SHEET 12 OF 18
1006614-DRG-13-NW-CC-U002 NEWARK ROAD SIGNAGE LAYOUT PLAN SHEET 2 OF 9
1006614-DRG-13-NW-CC-U003 NEWARK ROAD SIGNAGE LAYOUT PLAN SHEET 3 OF 9
1006614-DRG-00-NW-CC-D001 RAIL CROSSING DETAIL
1006614-DRG-02-NW-CC-D001 TYPICAL FENCING & GATE DETAILS 1
1006614-DRG-05-NW-CC-D001 BUS BAY & SHELTER DETAILS
1006614-DRG-08-NW-CC-D001 TYPICAL ROAD SECTIONS 1
1006614-DRG-08-NW-CC-D002 TYPICAL ROAD SECTIONS 2
1006614-DRG-08-NW-CC-D003 KERBING DETAILS 1

SETTING OUT DATA-ITNNW-05

NAME	CH	X	Y	LENGTH (m)
START	0.000 17.989	3185895.257 3185877.268	-101061.848 -101061.848	17.989
END	0.000 17.989	3185895.257 3185877.268	-101061.848 -101061.848	17.989

SETTING OUT DATA-ITNNW-06

NAME	CH	X	Y	LENGTH (m)
START	0.000 20.011	3185895.284 3185915.294	-101133.478 -101133.478	20.011
END	0.000 20.011	3185895.284 3185915.294	-101133.478 -101133.478	20.011

SETTING OUT DATA-ITNNW-07

NAME	CH	X	Y	LENGTH (m)
START	0.000 20.000	3185895.294 3185915.294	-101161.109 -101161.109	20.000
END	0.000 20.000	3185895.294 3185915.294	-101161.109 -101161.109	20.000

SETTING OUT DATA-ITNNW-08

NAME	CH	X	Y	LENGTH (m)
START	0.000 20.000	3185895.343 3185875.343	-101288.758 -101288.758	20.000
END	0.000 20.000	3185895.343 3185875.343	-101288.758 -101288.758	20.000

SETTING OUT DATA-ITNNW-09

NAME	CH	X	Y	LENGTH (m)
START	0.000 9.992	3185895.360 3185885.369	-101332.907 -101332.907	9.992
END	0.000 9.992	3185895.360 3185885.368	-101332.907 -101332.907	9.992

SETTING OUT DATA-ITNNW-10

NAME	CH	X	Y	LENGTH (m)
START	0.000 10.000	3185895.368 3185885.368	-101353.992 -101353.992	10.000
END	0.000 10.000	3185895.368 3185885.368	-101353.992 -101353.992	10.000

SETTING OUT DATA-ITNNW-11

NAME	CH	X	Y	LENGTH (m)
START	0.000 15.000	3185895.306 3185880.306	-101377.476 -101377.498	15.000
END	0.000 15.000	3185895.306 3185880.306	-101377.476 -101377.498	15.000

SETTING OUT DATA-ITNNW-12

NAME	CH	X	Y	LENGTH (m)
START	0.000 15.088	3185895.394 3185880.306	-101425.935 -101425.935	15.088
END	0.000 15.088	3185895.394 3185880.306	-101425.935 -101425.935	15.088

SETTING OUT DATA-HA Octopus

NAME	CH	X	Y	LENGTH (m)
START	0.000 39.769	3185895.313 3185935.082	-101209.795 -101209.761	39.769
END	481.600 648.746	3186376.913 3186544.059	-101209.388 -101209.247	167.146

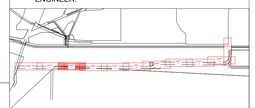
SETTING OUT DATA-HA Newark Road

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 3185932.532 3185901.646	-100319.395 -100340.888 -100363.396	R 130.000m DA 19°38'40" TL 22.525m AL 44.807m
PI20	38.889 83.496	3185895.794 3185932.532 3185901.646	-100319.395 -100340.888 -100363.396	R 130.000m DA 19°38'40" TL 22.525m AL 44.807m
BCC1 PI1 ECC1	143.975 213.123	3185899.267 3185897.807 3185897.875	-100423.828 -100408.380 -100492.958	R 1800.000m DA 2°12'00" TL 34.579m AL 69.146m
BCC2 PI2 ECC2	264.572 279.481	3185897.827 3185897.820 3185897.591	-100544.407 -100551.862 -100559.314	R 500.000m DA 1°42'20" 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°47'02" TL 7.780m AL 15.564m
PI23	2489.669 2543.864	3185895.907 3185895.918 3185881.597	-102769.464 -102787.245 -102821.050	R 100.000m DA 31°00'00" TL 27.781m AL 54.194m
PI24	2632.669 2678.319	3185835.821 3185823.756 3185823.801	-102887.147 -102917.202 -102940.606	R 84.000m DA 31°08'20" TL 23.404m AL 45.650m
PI25	3280.749 3289.788	3185823.767 3185823.767 3185823.971	-103343.037 -103347.557 -103352.072	R 200.000m DA 2°35'20" TL 4.520m AL 9.038m
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 9.038m
BCC32 PI32 ECC32	3842.916 4031.375	3185826.236 3185826.229 3185706.266	-104105.150 -104225.114 -104225.144	R 120.000m DA 89°59'00" TL 119.963m AL 188.459m
END	4181.381 4237.527	3185556.259 3185500.114	-104225.181 -104225.195	4181.381 56.146

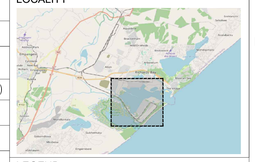
NOTES

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
X%	PROPOSED VERTICAL RETAINING WALL
	ROAD SLOPE
FL#XXX	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

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	201270122	
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	0.388888889	

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 CH800 - CH1200 SHEET 3 OF 11

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
	PROJECT DRG. NO.	REV.
	1006614-DRG-09-NW-CC-L003	T2