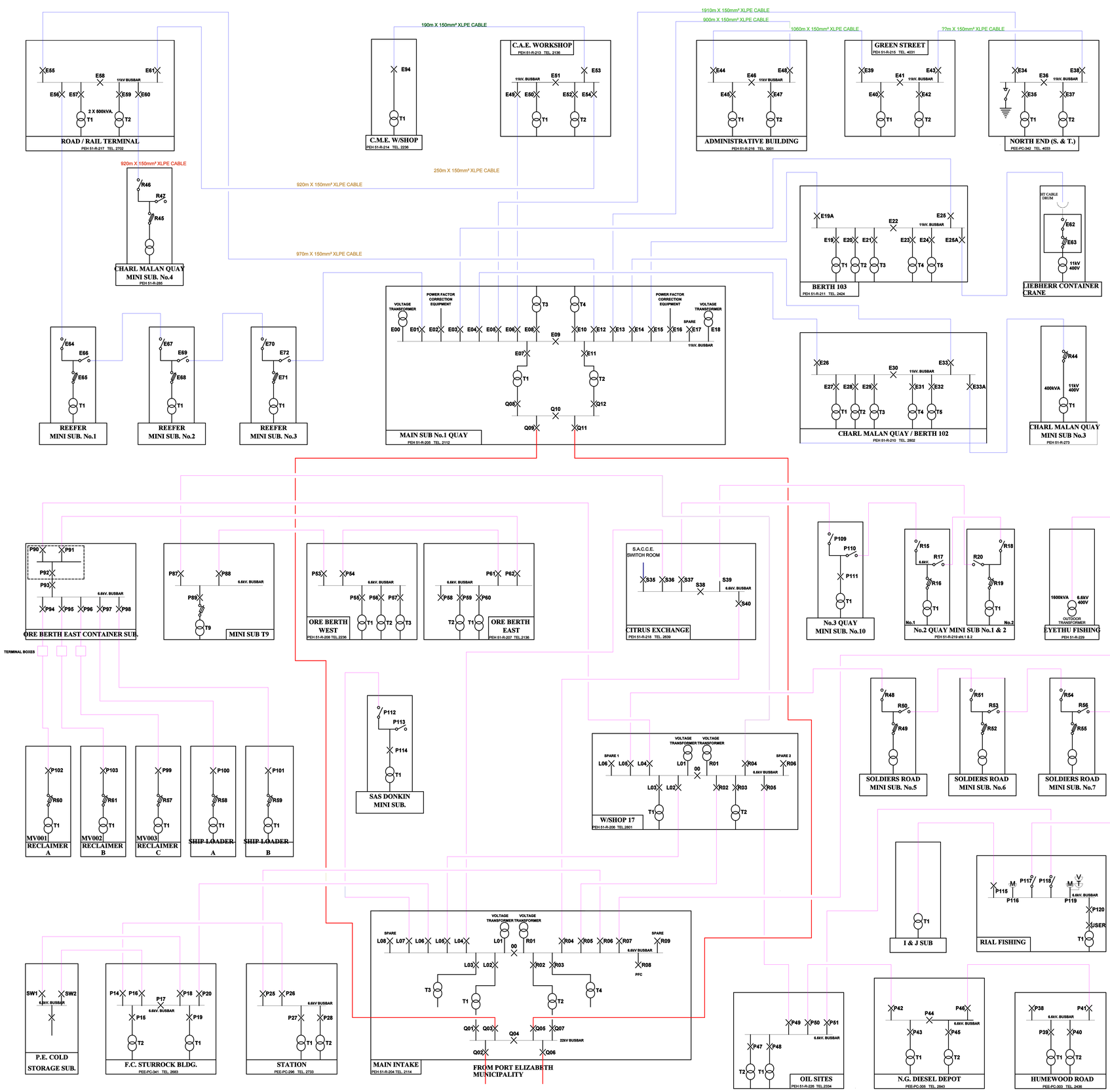


## MAIN INTAKE SUBSTATION

Q01 TRANSFORMER No.1 VCB.
Q02 MUNICIPAL FEEDER No.1 VCB.
Q03 MAIN SUB No.1 QUAY FEEDER No.1 VCB.
Q04 BUS COUPLER
Q05 MAIN SUB No.1 QUAY FEEDER No.2 VCB.
Q06 MUNICIPAL FEEDER No.2 VCB.
Q07 TRANSFORMER No.2 VCB.
L08 SPARE 1
L07 S.A.S. DONKIN VCB.
L06 F.C. STURROCK BUILDING VCB.
L05 WORKSHOP 17 SUB FEEDER 1 VCB.
L04 CITRUS EXCHANGE FEEDER 1 VCB.
L03 LOCAL TRANSFORMER T3 VCB.
L02 TRANSFORMER T1 INCOMER VCB.
L01 VT & LHS BUSBAR EARTHING
00 BUS SECTION & RHS BUSBAR EARTHING
R01 VT & BUSBAR RISER
R02 TRANSFORMER T2 INCOMER VCB.
R03 LOCAL TRANSFORMER T4 VCB.
R04 CITRUS EXCHANGE FEEDER 2 VCB.
R05 WORKSHOP 17 FEEDER 2 VCB.
R06 STATION VCB.
R07 EYETHU FISHING VCB.
R08 PFC VCB.
R09 SPARE 2

## No.3 QUAY MINI SUB No.10

P109 CITRUS SWITCH ROOM O.C.B. No. S37
P110 BUS COUPLER (FEEDS R15 M/SUB No.1)
P111 LOCAL TRANSFORMER No.1

## CITRUS EXCH. SWITCH ROOM

S35 S.A.C.C.E. SWITCH ROOM O.C.B.
S36 MAIN INTAKE INCOMER 1 O.C.B.
S37 No.3 QUAY MINI SUB No.10 LINK
S38 BUS COUPLER
S39 No.2 QUAY MINI SUB No.2 LINK
S40 MAIN INTAKE INCOMER 2 O.C.B.

## No.2 QUAY MINI SUB No.1

R15 BUS COUPLER (FEEDS P110 M/SUB No.10)
R16 LOCAL TRANSFORMER No.1
R17 BUS COUPLER (FEEDS R18 M/SUB No.2)

## No.2 QUAY MINI SUB No.2

R18 BUS COUPLER (FEEDS R17 M/SUB No.1)
R19 LOCAL TRANSFORMER No.1
R20 CITRUS SWITCH ROOM O.C.B. No.39

## F.C. STURROCK SUB.

P14 STATION SUBSTATION O.C.B.
P15 TRANSFORMER No.2 O.C.B.
P16 P.E. COLD STORAGE SWITCH No.2.
P17 BUS COUPLER
P18 P.E. COLD STORAGE SWITCH No. 1
P19 LOCAL TRANSFORMER No.1 O.C.B.
P20 MAIN INTAKE SUB. FEEDER No.1 OCB.

## STATION SUBSTATION

P25 MAIN INTAKE SUBSTATION O.C.B.
P26 F.C. STURROCK SUBSTATION O.C.B.
P27 LOCAL TRANSFORMER No.1 O.C.B.
P28 LOCAL TRANSFORMER No.2 O.C.B.

## P.E. COLD STORAGE SUB.

SW1 F.C. STURROCK BUILDING O.C.B.
SW2 F.C. STURROCK BUILDING O.C.B.
SW3 LOCAL TRANSFORMER

## WORKSHOP 17 SUBSTATION

L06 SPARE 1
L05 SOLDIERS ROAD MINI SUB. VCB.
L04 ORE BERTH EAST CONTAINER SUB VCB.
L03 LOCAL TRANSFORMER T1 VCB.
L02 MAIN INTAKE INCOMER 1 VCB.
L01 VT & LHS BUSBAR EARTHING
00 BUS SECTION & RHS BUSBAR EARTHING
R01 VT & BUSBAR RISER
R02 MAIN INTAKE INCOMER 2 VCB.
R03 LOCAL TRANSFORMER T2 VCB.
R04 MINI SUB T9 VCB.
R05 OIL SITES VCB.
R06 SPARE 2

## HUMEWOOD ROAD SUB.

P38 SPARE
P39 LOCAL TRANSFORMER No.1 O.C.B.
P40 LOCAL TRANSFORMER No.2 O.C.B.
P41 N.G. DIESEL DEPOT SUBSTATION O.C.B.

## N.G. DIESEL LOCO SUB.

P42 OIL SITES SUBSTATION O.C.B.
P43 LOCAL TRANSFORMER No.1 O.C.B.
P44 BUS COUPLER
P45 LOCAL TRANSFORMER No.2 O.C.B.
P46 HUMEWOOD ROAD SUBSTATION O.C.B.

## OIL SITES SUBSTATION

P47 LOCAL TRANSFORMER No.2 O.C.B.
P48 LOCAL TRANSFORMER No.1 O.C.B.
P49 W/SHOP 17 SUBSTATION O.C.B.
P50 N.G. DIESEL DEPOT SUBSTATION OCB.
P51 RIAL FISHING S/ROOM O.C.B. No. P102

## RIAL FISHING SWITCHROOM

P115 I&J TRANSFORMER V.C.B.
P116 I&J METERING PANEL
P117 BUS COUPLER (FEEDS R56 M/SUB No.7)
P118 BUS COUPLER (FEEDS P51 OIL SITES)
P119 RIAL METERING PANEL & V.T.
P120 RIAL SUPPLY V.C.B.

## SOLDIERS ROAD MINI SUBSTATION No.5

R48 SHOP 17 O.C.B. No. P30
R49 LOCAL TRANSFORMER No.1
R50 BUS COUPLER (FEEDS R51 M/SUB N0.6)

## SOLDIERS ROAD MINI SUBSTATION No.6

R51 BUS COUPLER (FEEDS R50 M/SUB No.5)
R52 LOCAL TRANSFORMER No.1
R53 BUS COUPLER (FEEDS R54 M/SUB No.7)

## SOLDIERS ROAD MINI SUBSTATION No.7

R54 BUS COUPLER (FEEDS R53 M/SUB No.6)
R55 LOCAL TRANSFORMER No.1
R56 RIAL FISHING S/ROOM O.C.B. No. P104

## ORE BERTH WEST SUB.

P53 MINI SUB T9
P54 ORE BERTH EAST SUBSTATION O.C.B.
P55 LOCAL TRANSFORMER No.1 O.C.B.
P56 LOCAL TRANSFORMER No.2 O.C.B.
P57 LOCAL TRANSFORMER No.3 O.C.B.

## ORE BERTH EAST SUB.

P58
P59 LOCAL TRANSFORMER No.2 O.C.B.
P60 LOCAL TRANSFORMER No.1 O.C.B.
P61 ORE BERTH WEST SUBSTATION O.C.B.
P62 ORE BERTH EAST CONT. SUB O.C.B.

## ORE BERTH MINI SUB. T9

P87 SHOP 17 SUBSTATION O.C.B.
P88 ORE BERTH WEST SUBSTATION O.C.B.
P89 LOCAL TRANSFORMER T9

## ORE BERTH EAST CONT. SUB.

P90 SHOP 17 SUBSTATION O.C.B.
P91 ORE BERTH EAST SUBSTATION O.C.B.
P92 6.6kV PANEL IN O.B.E. CONTAINER SUB.
P93 RING MAIN UNIT IN O.B.E. CONTAINER SUB.
P94 RECLAIMER A
P95 RECLAIMER B
P96 RECLAIMER C
P97 SHIP LOADER A
P98 SHIP LOADER B

## SHIPLOADER A

P100 ORE BERTH EAST CONTAINER SUB O.C.B.
R58 LOCAL TRANSFORMER No. 1

## SHIPLOADER B

P101 ORE BERTH EAST CONTAINER SUB O.C.B.
R59 LOCAL TRANSFORMER No. 1

## RECLAIMER A MV001 MINI SUBSTATION

P102 ORE BERTH EAST CONTAINER SUB O.C.B.
R60 LOCAL TRANSFORMER No. 1

## RECLAIMER B MV002 MINI SUBSTATION

P103 ORE BERTH EAST CONTAINER SUB O.C.B.
R61 LOCAL TRANSFORMER No. 1

## RECLAIMER C MV003 MINI SUBSTATION

P99 ORE BERTH EAST CONTAINER SUB O.C.B.
R57 LOCAL TRANSFORMER No. 1

## MAIN SUBSTATION No1. QUAY

Q08 TRANSFORMER No.1 V.C.B.
Q09 MINTAKE SUB FEEDER No.1 V.C.B
Q10 BUS COUPLER
Q11 MINTAKE SUB FEEDER No.2 V.C.B
Q12 TRANSFORMER No.2 V.C.B.
E00 VOLTAGE TRANSFORMER No.1
E01 REEFER MINI SUB No.1 V.C.B.
E02 POWER FACTOR CORRECTION No.1 V.C.B.
E03 BERTH 103 SUB FEEDER No.1 V.C.B.
E04 BERTH 102 SUB FEEDER No.1 V.C.B.
E05 NORTH END SUB (S.&T.) V.C.B.
E06 C.A.E. SUBSTATION V.C.B.
E07 INCOMER No.1 V.C.B.
E08 LOCAL TRANSFORMER No.3 V.C.B.
E09 BUS COUPLER
E10 LOCAL TRANSFORMER No.4 V.C.B.
E11 INCOMER No.2 V.C.B.
E12 ROAD/RAIL TERMINAL SUB V.C.B.
E13 ADMIN. BUILDING SUBSTATION V.C.B.
E14 BERTH 102 SUB FEEDER No.2 V.C.B.
E15 BERTH 103 SUB FEEDER No.2 V.C.B.
E16 POWER FACTOR CORRECTION No.2 V.C.B.
E17 SPARE V.C.B.
E18 VOLTAGE TRANSFORMER No.2

## BERTH 102 SUBSTATION

E26 MAIN SUB No.1 QUAY FEEDER No.1 V.C.B.
E27 LOCAL TRANSFORMER No.1 OCB. (550V)
E28 LOCAL TRANSFORMER No.2 OCB. (550V)
E29 LOCAL TRANSFORMER No.3 OCB. (400V)
E30 BUS COUPLER
E31 LOCAL TRANSFORMER No.4 OCB. (400V)
E32 LOCAL TRANSFORMER No.5 OCB. (550V)
E33 MAIN SUB No.1 QUAY FEEDER No.2 V.C.B.
E33A MINI SUB No.3 CHARL MALAN QUAY O.C.B.

## BERTH 103 SUBSTATION

E19A MAIN SUB No.1 QUAY FEEDER No.2 V.C.B.
E19 LOCAL TRANSFORMER No.1 OCB. (550V)
E20 LOCAL TRANSFORMER No.2 OCB. (550V)
E21 LOCAL TRANSFORMER No.3 OCB. (400V)
E22 BUS COUPLER
E23 LOCAL TRANSFORMER No.4 OCB. (400V)
E24 LOCAL TRANSFORMER No.5 OCB. (550V)
E25 MAIN SUB No.1 QUAY FEEDER No.1 V.C.B
E25A SUPPLY TO LIEBHERR CONTAINER CRANE

## LIEBHERR CONTAINER CRANE

E62 BERTH 103 SUBSTATION E25A
E63 LOCAL TRANSFORMER No.1

## ROAD / RAIL TERMINAL SUB.

E56 MAIN SUB No.1 QUAY V.C.B.
E56 REEFER MINISUB No.1 E64
E57 LOCAL TRANSFORMER No.1 O.C.B.
E58 BUS COUPLER
E59 LOCAL TRANSFORMER No.2 O.C.B.
E60 MINI SUB No.4 CHARL MALAN QUAY O.C.B.
E61 C.A.E. WORKSHOP SUB O.C.B.

## C.A.E. WORKSHOP SUB.

E49 MAIN SUB. No.1 QUAY V.C.B.
E50 LOCAL TRANSFORMER No.1 O.C.B.
E51 BUS COUPLER
E52 LOCAL TRANSFORMER No.2 O.C.B.
E53 C.M.E. WORKSHOP SUB. O.C.B.
E54 ROAD/RAIL TERMINAL SUB. O.C.B.

## C.M.E. SUBSTATION

E94 LOCAL TRANSFORMER No.1 O.C.B.

## CHARL MALAN QUAY MINI SUBSTATION No.3

R44 LOCAL TRANSFORMER No.1

## CHARL MALAN QUAY MINI SUBSTATION No.4

R45 LOCAL TRANSFORMER No.1
R46 ROAD RAIL SUB. O.C.B. No.E60
R47 BUS COUPLER (FUTURE DEVELOPMENT)

## ADMIN. BUILDING SUB.

E44 GREEN STREET SUB. O.C.B.
E45 LOCAL TRANSFORMER No.1 O.C.B.
E46 BUS COUPLER
E47 LOCAL TRANSFORMER No.2 O.C.B.
E48 MAIN SUB. No.1 QUAY V.C.B.

## REEFER MINI SUBSTATION No.1

E64 ROAD / RAIL SUB O.C.B. No. E56
E65 LOCAL TRANSFORMER No.1
E66 BUS COUPLER (FEEDS E67 REEFER M/SUB No.2)

## REEFER MINI SUBSTATION No.2

E67 BUS COUPLER (FEEDS E66 REEFER M/SUB No.1)
E68 LOCAL TRANSFORMER No.1
E69 BUS COUPLER (FEEDS E70 REEFER M/SUB No.3)

## REEFER MINI SUBSTATION No.3

E70 BUS COUPLER (FEEDS E69 REEFER M/SUB No.2)
E71 LOCAL TRANSFORMER No.1
E72 MAIN SUB No.1 QUAY V.C.B. No. E01

## GREEN STREET SUBSTATION

E39 ADMIN. BUILDING SUB. O.C.B.
E40 LOCAL TRANSFORMER No.1 O.C.B.
E41 BUS COUPLER
E42 LOCAL TRANSFORMER No.2 O.C.B.
E43 NORTH END (S.& T.) SUB. O.C.B.

## NORTH END (S.& T.).SUB.

E34 MAIN SUB No.1 QUAY V.C.B.
E35 LOCAL TRANSFORMER No.1 O.C.B.
E36 BUS COUPLER
E37 LOCAL TRANSFORMER No.2 O.C.B.
E38 GREEN STREET SUBSTATION O.C.B.

## No. 3 QUAY MINI SUB No. 10

P109 CITRUS SWITCH ROOM O.C.B No. S37
P110 BUS COUPLER (FEEDS R15 M/SUB No.1)
P111 LOCAL TRANSFORMER No. 1

## SAS DONKIN MINI SUB

P112 MAIN INTAKE SUBSTATION VCB. L02
P113 SPARE
P114 LOCAL TRANSFORMER No. 1