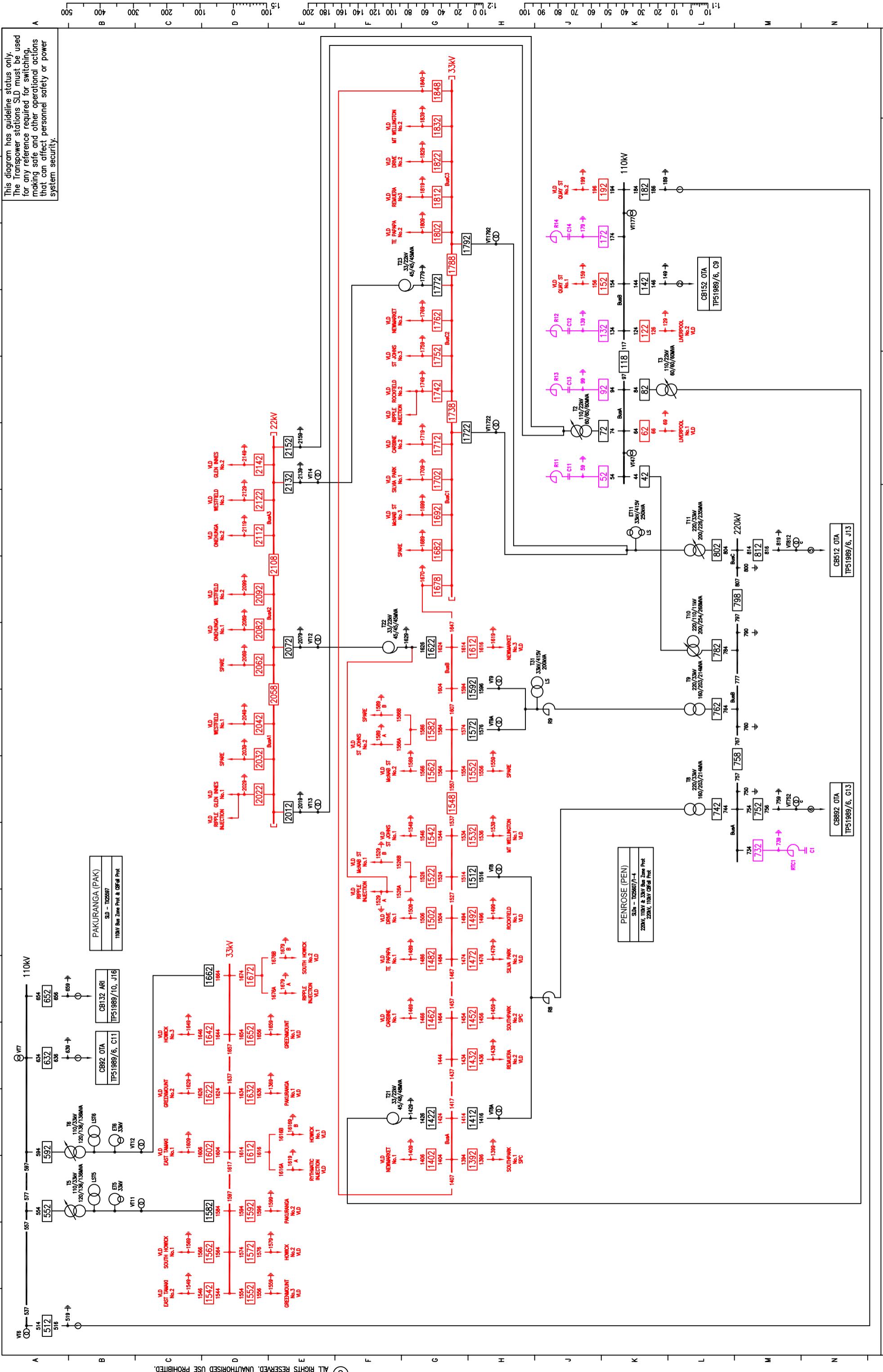
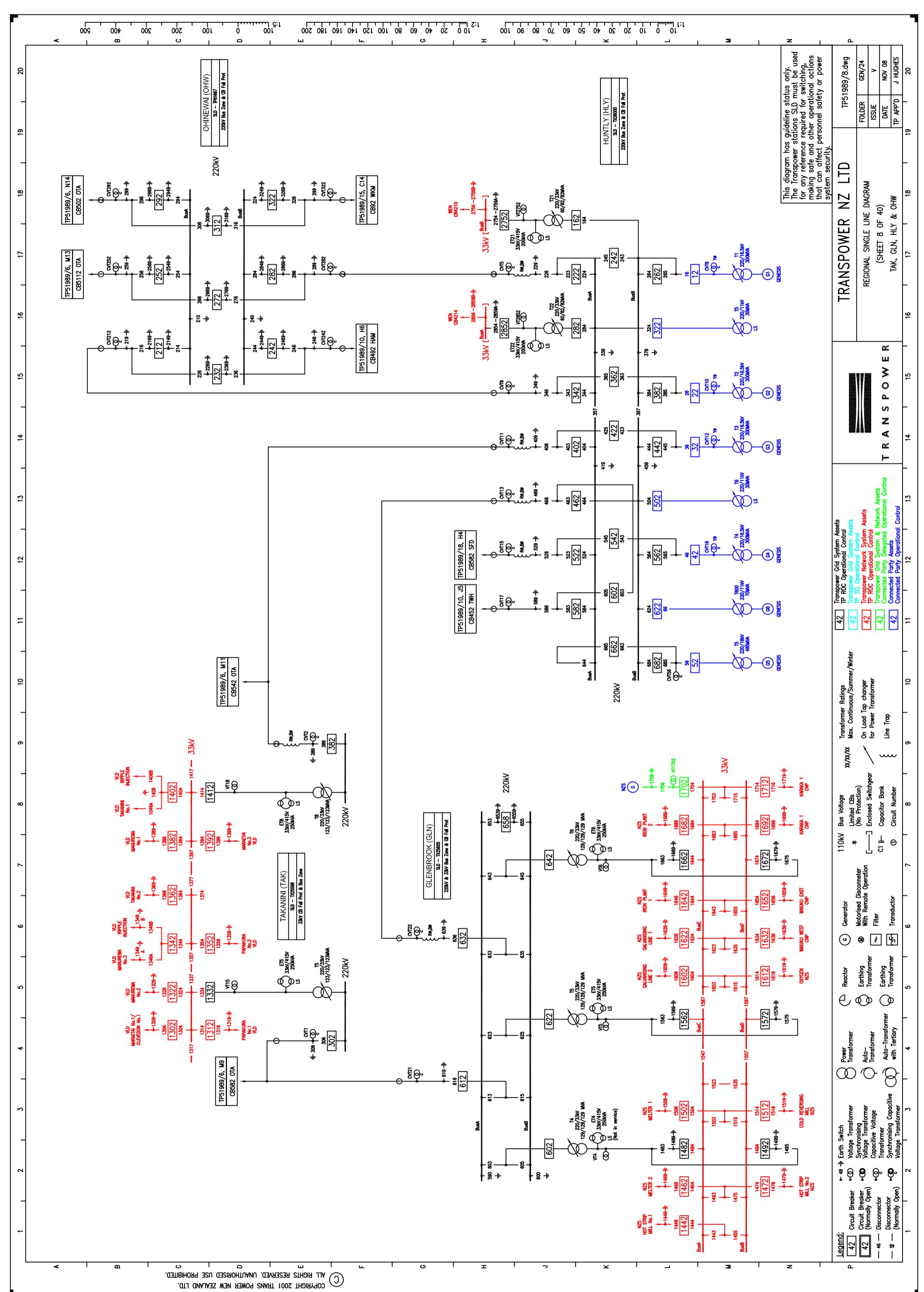
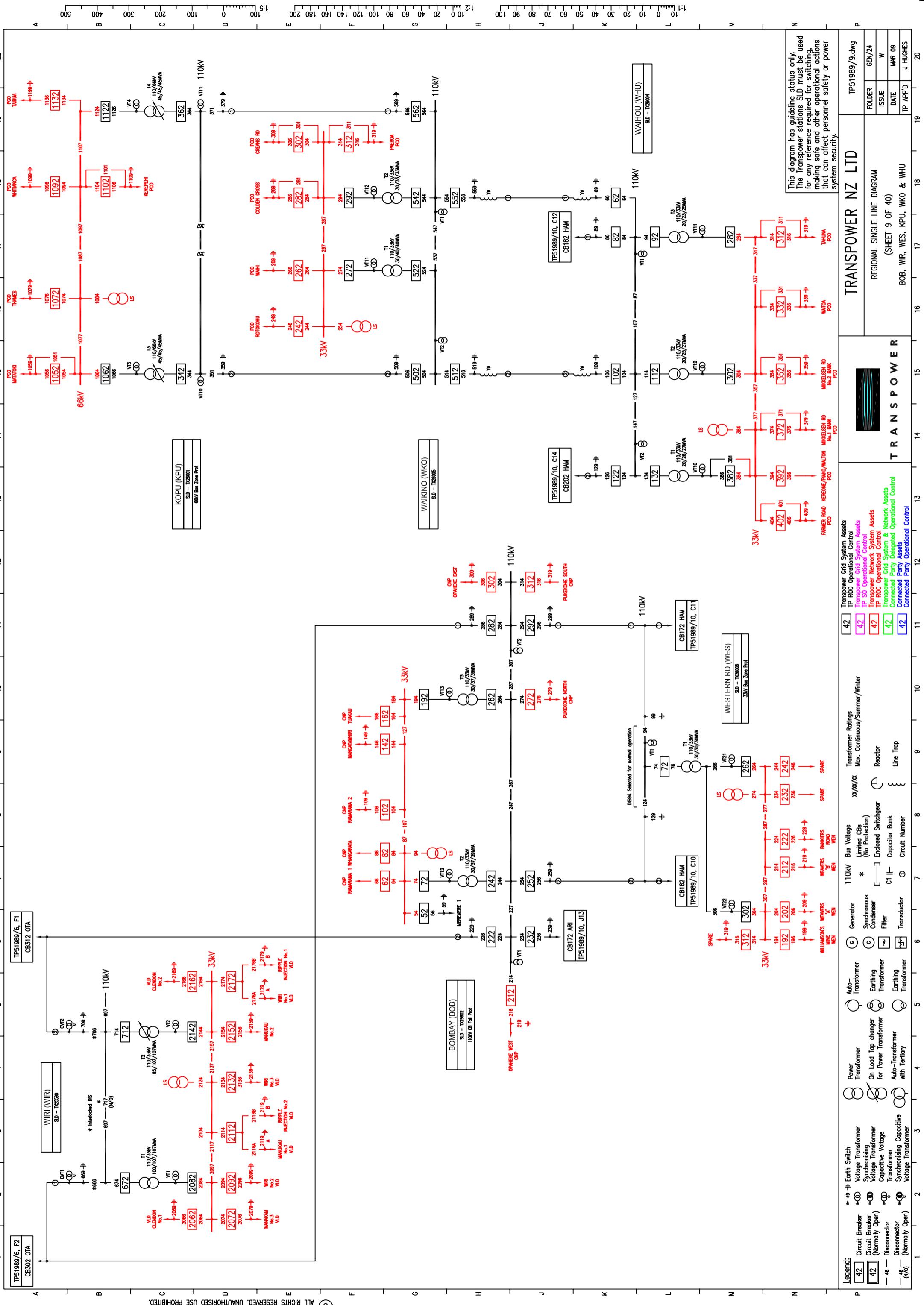
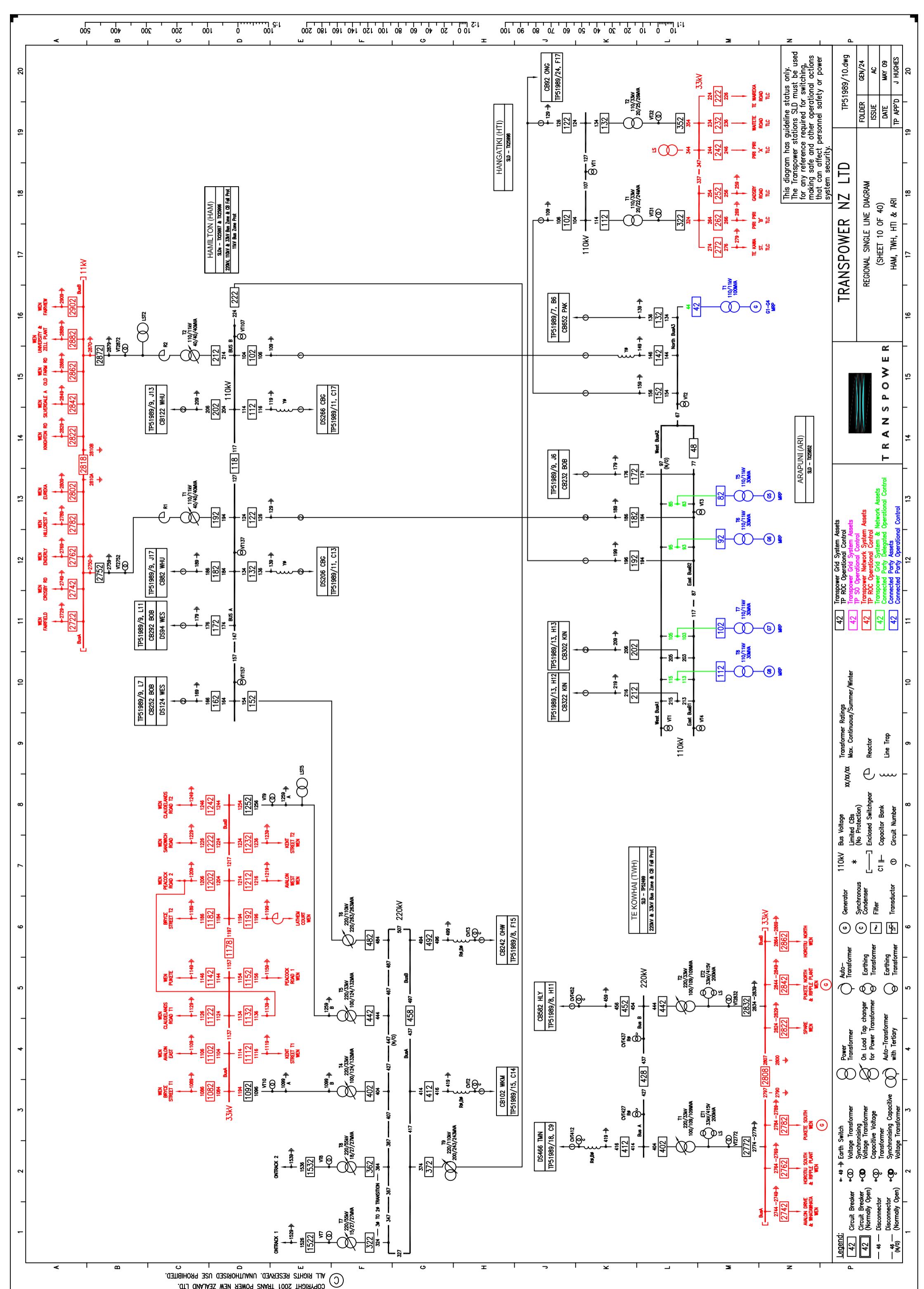


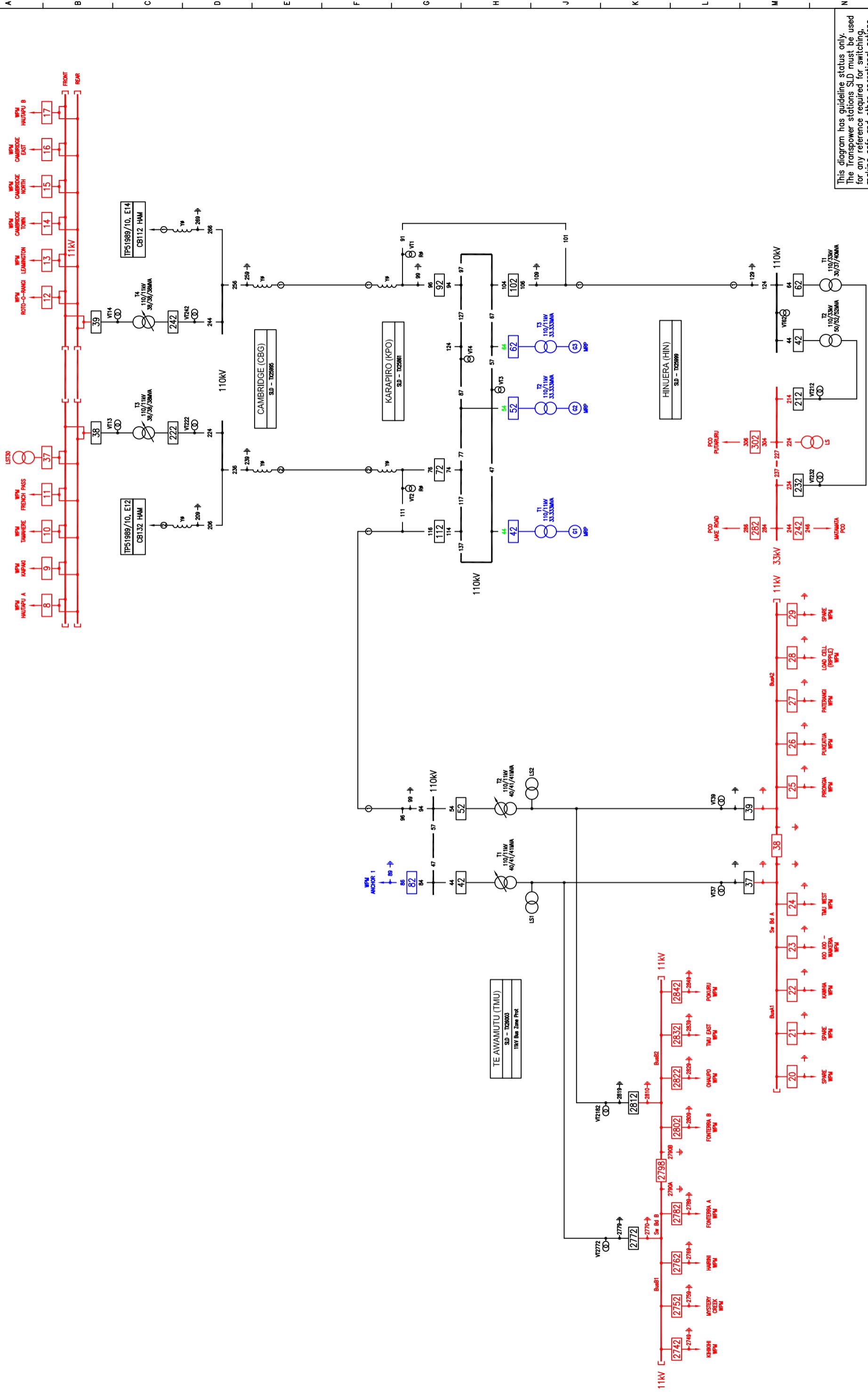
One Transpower stations SLD must be used as any reference required for switching, making safe and other operational actions that can affect personnel safety or power system security.





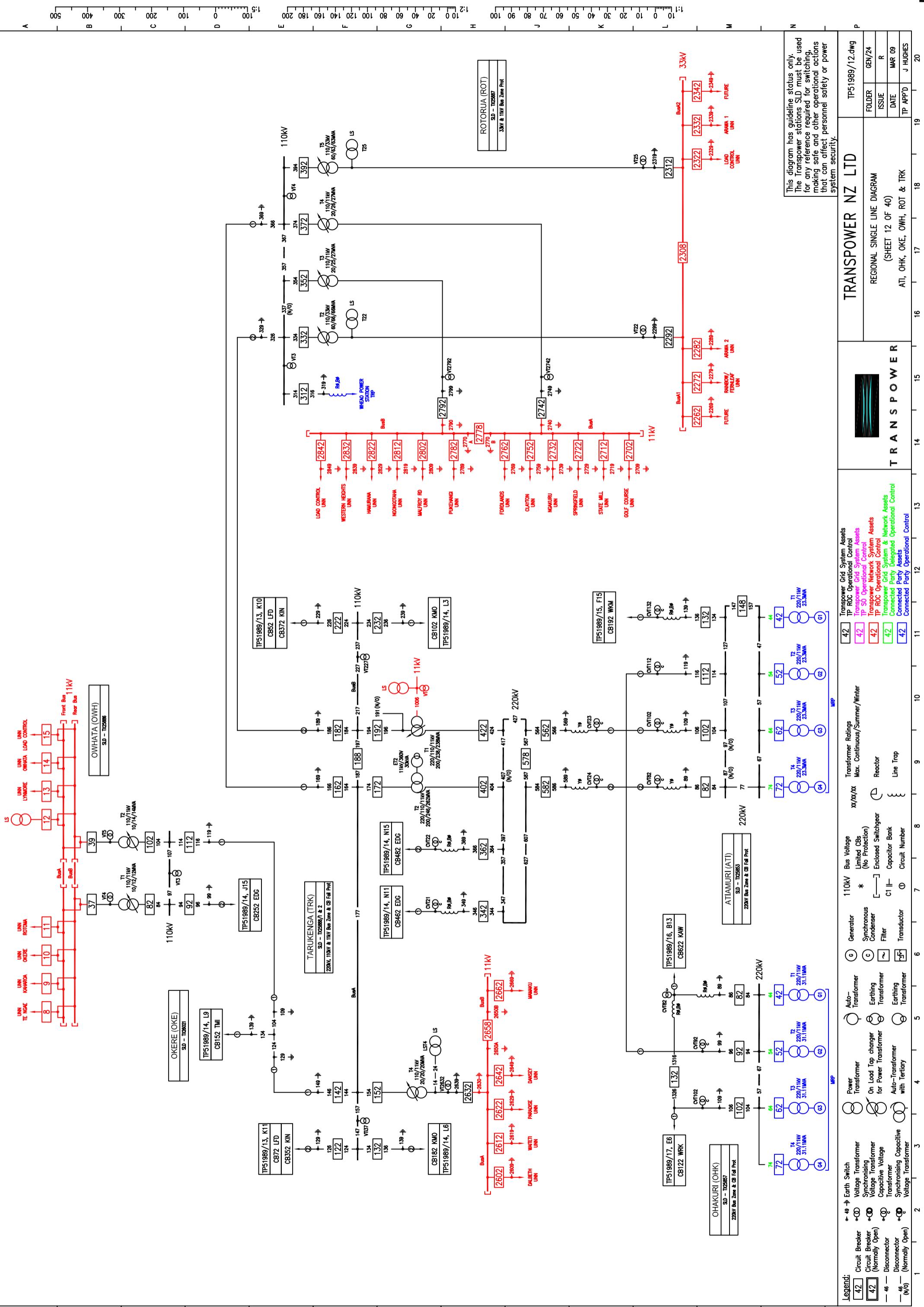


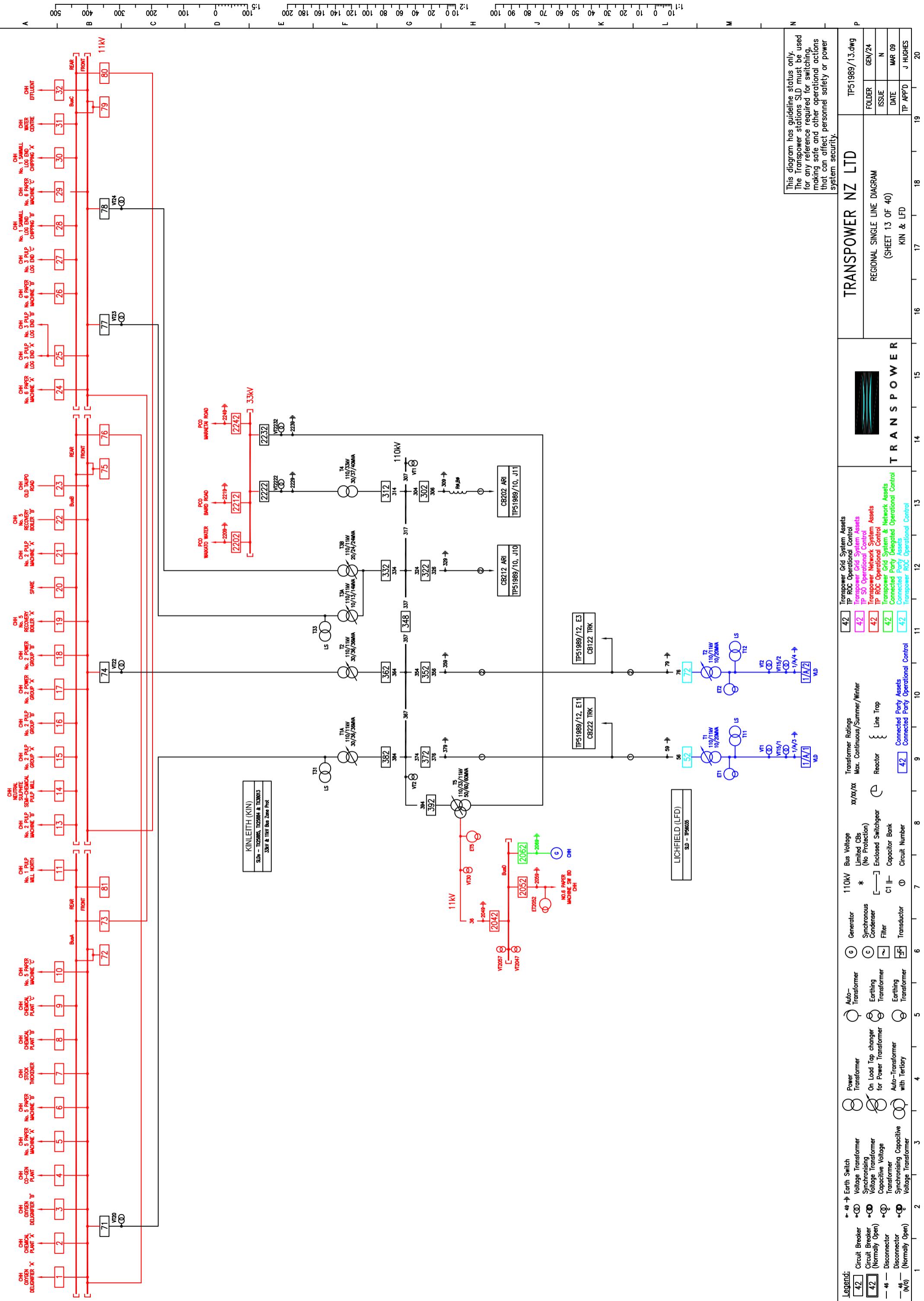


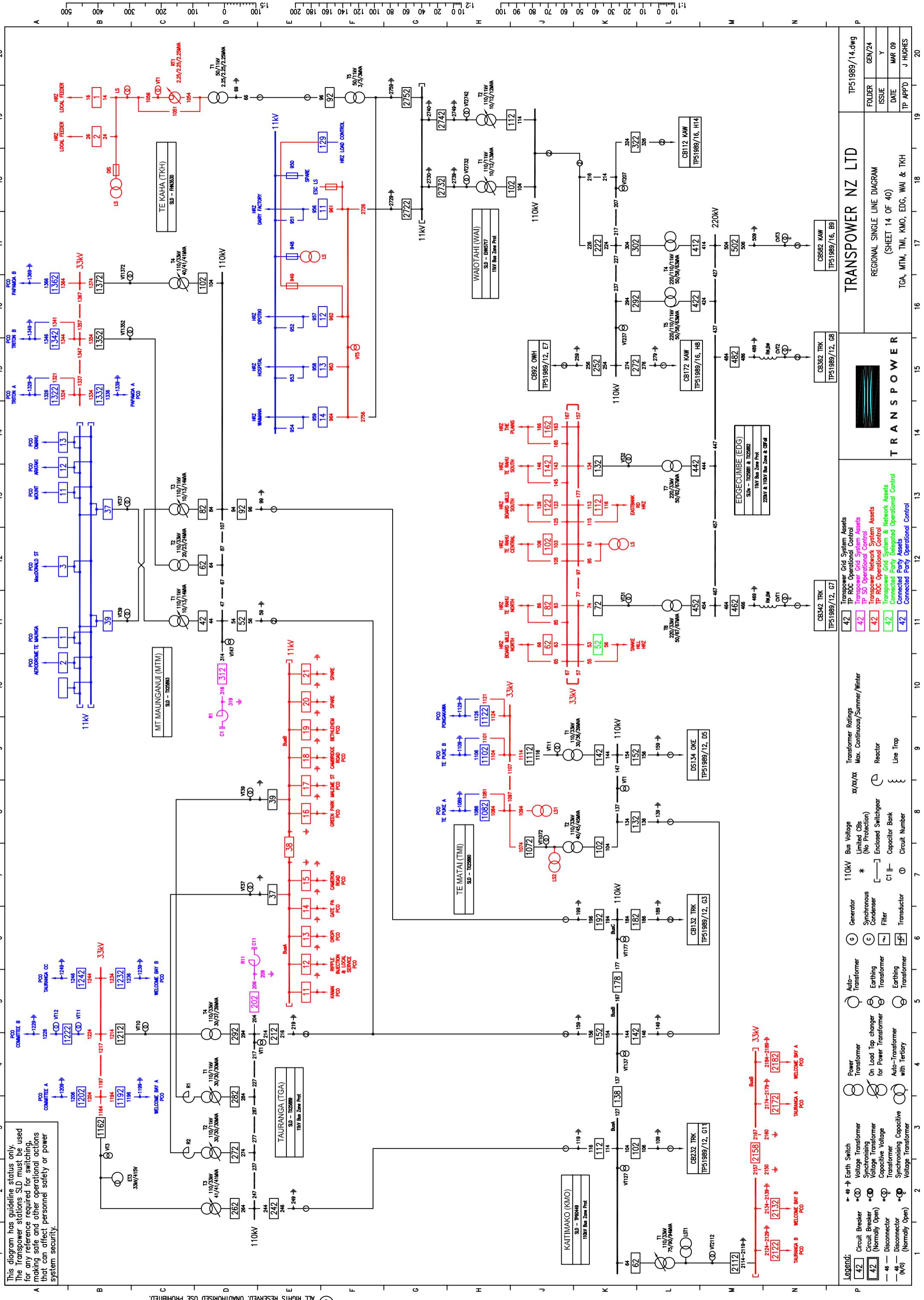


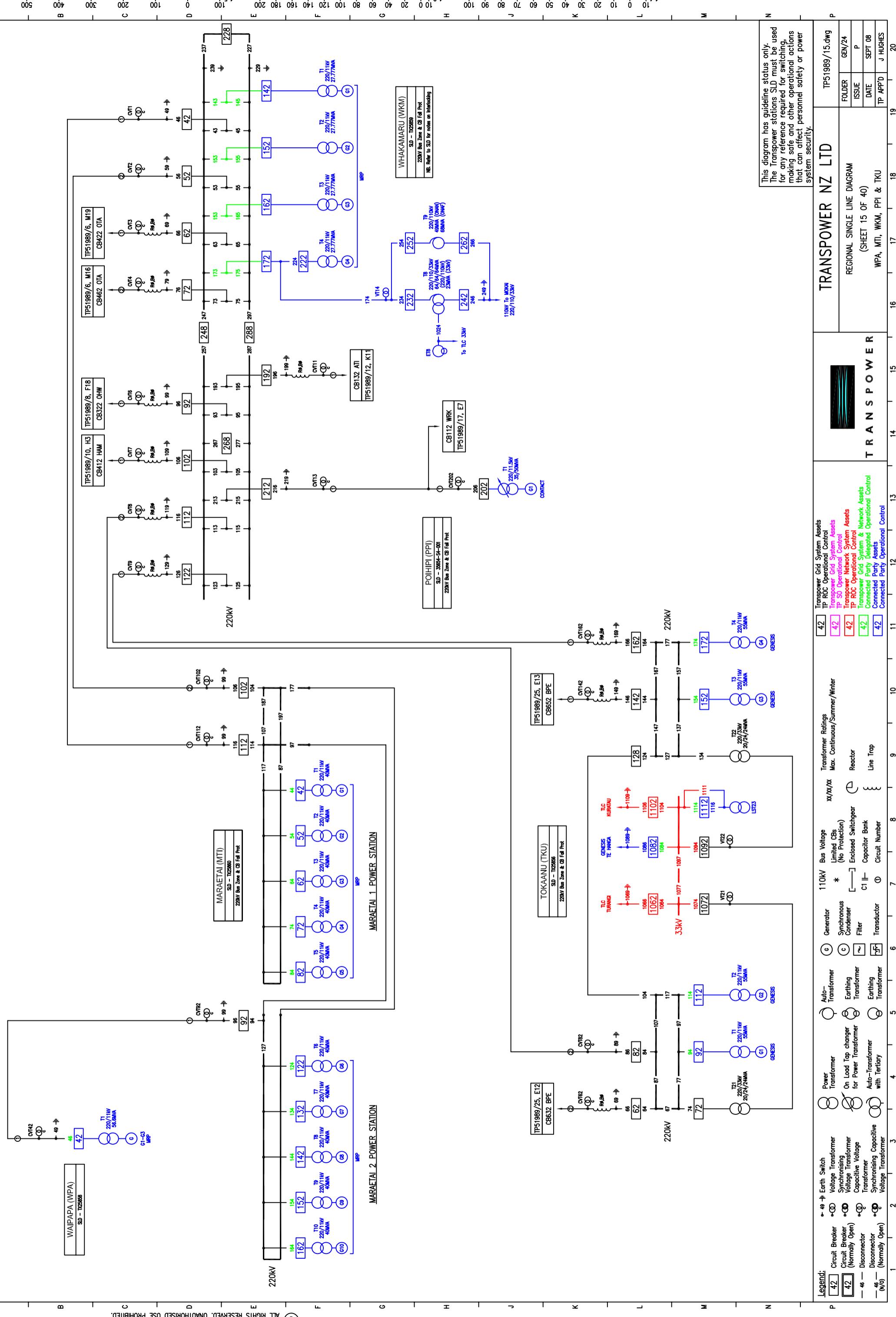
making sure and other operational actions that can affect personnel safety or power system security.

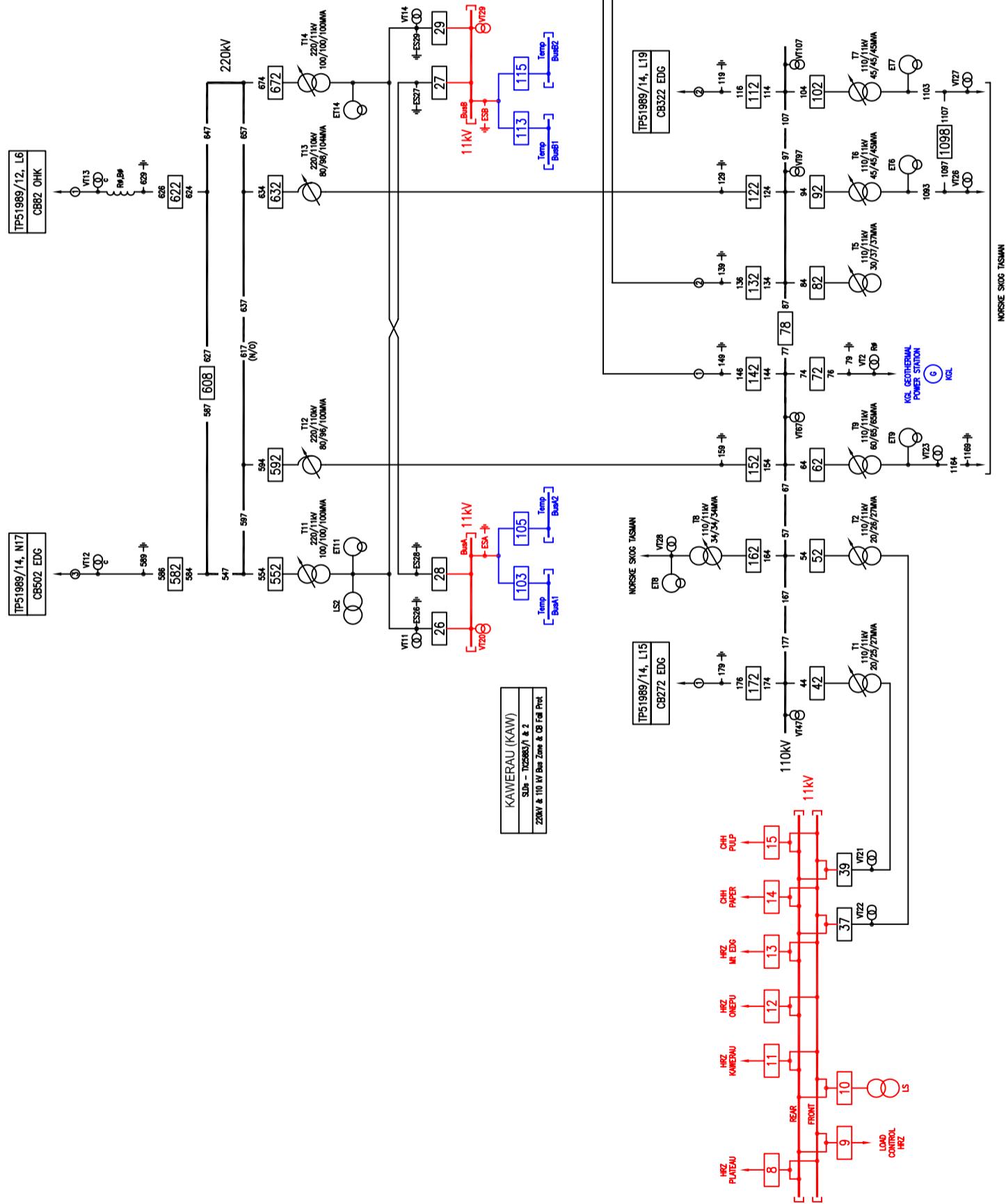
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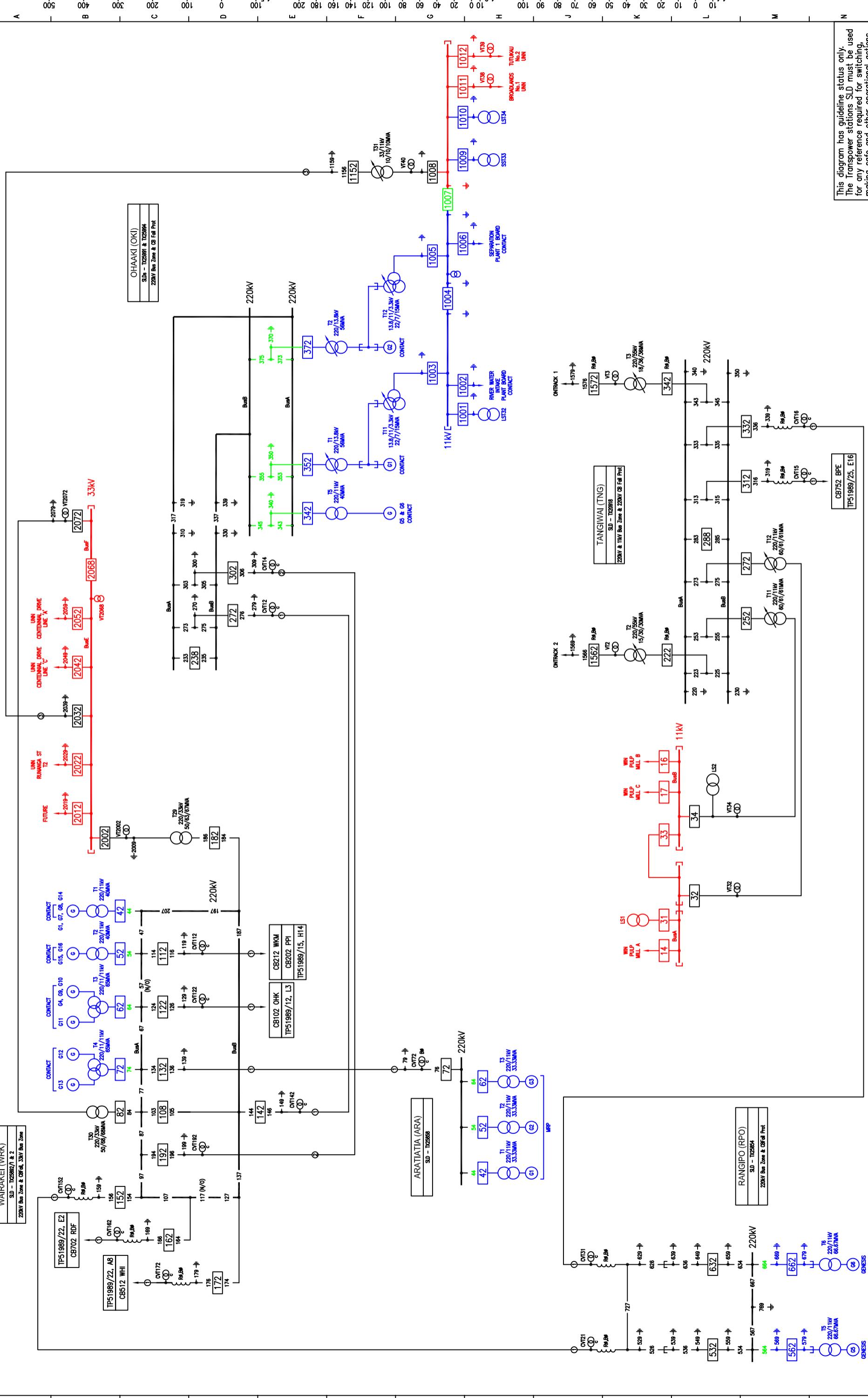




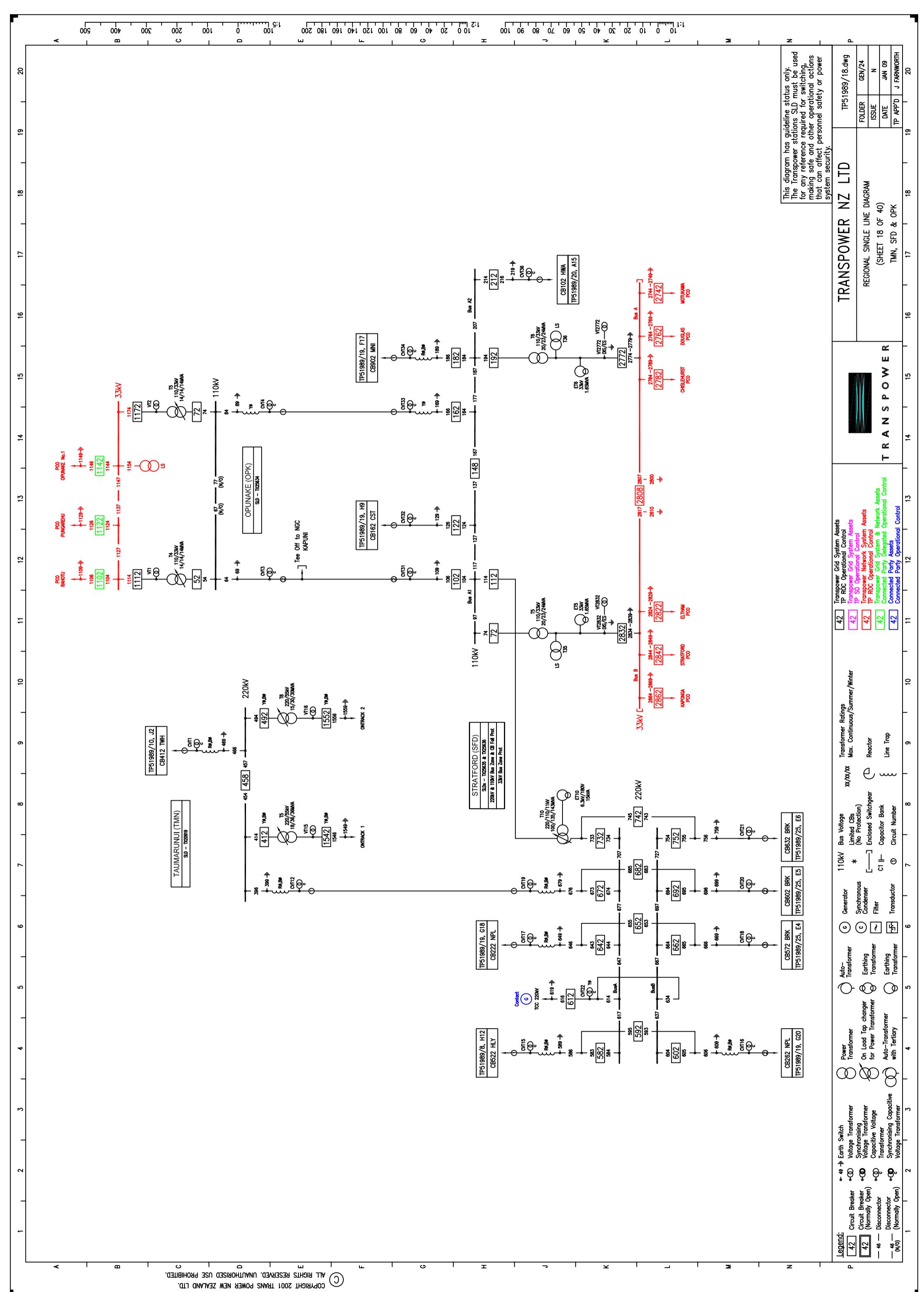


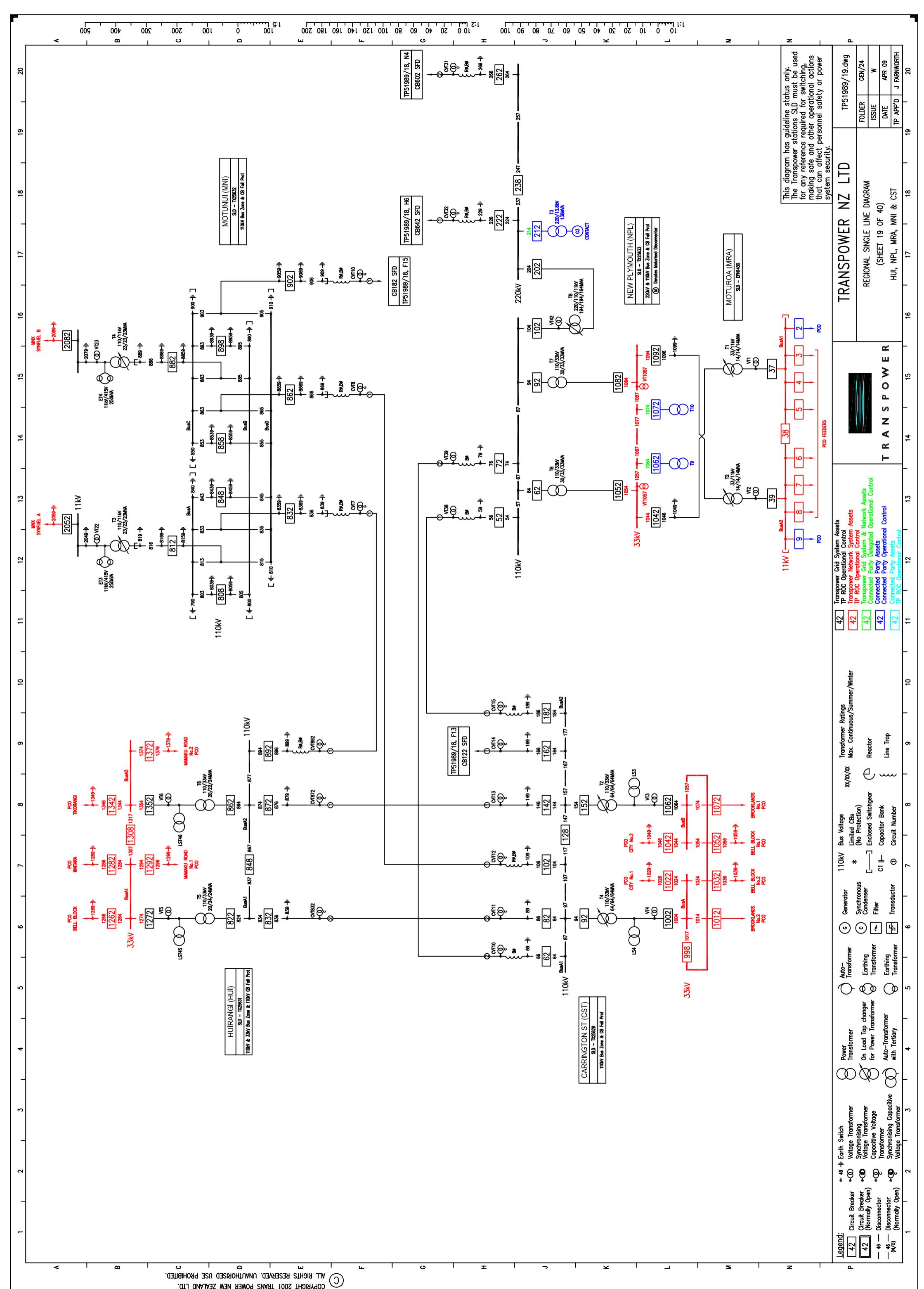


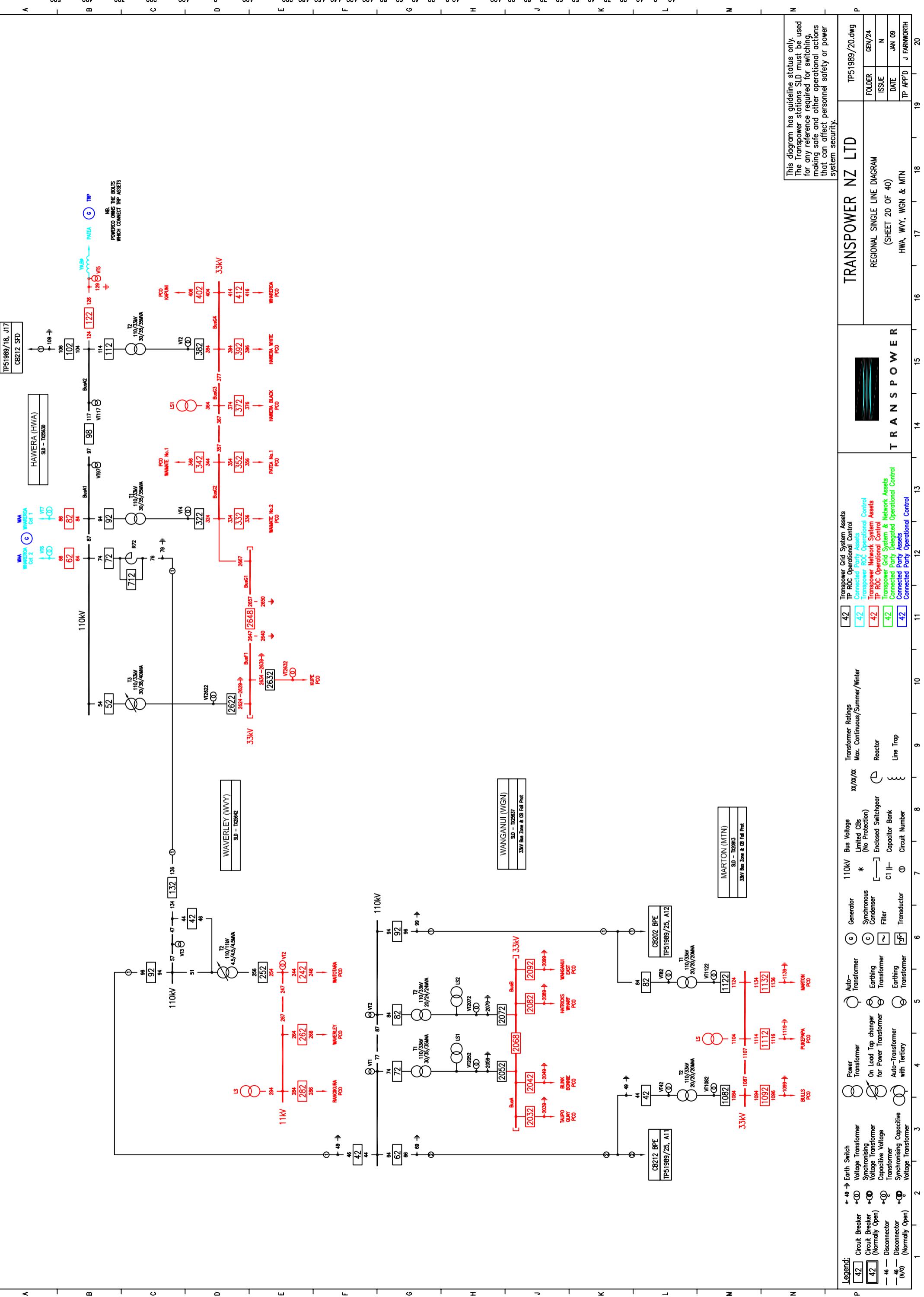
This diagram has guideline status only. The Transpower stations SLD must be used for any reference required for switching, making safe and other operational actions that can affect personnel safety or power system security.



This diagram has guideline status only.  
The Transpower stations SLD must be used  
for any reference required for switching,  
making safe and other operational actions  
that can affect personnel safety or power  
system security.







This diagram has guideline status only.  
The Transpower stations SLD must be used for any reference required for switching, making safe and other operational actions that can affect personnel safety or power system security.

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DIAGRAM FOLDER GEN/24

ISSUE N

|      |        |
|------|--------|
| DATE | JAN 09 |
|------|--------|

TP APP'D J FARNWORTH

TP51989/22, E12

CB82 RDF

CB82 FHL

ELD  
PREPAK 1

ELD  
PREPAK 2

ELD  
WAREHOUSE  
MALL NO

TP51989/22, E12

CB82 RDF

CB82 FHL

GENES

PREPAK 1

PREPAK 2

PREPAK 3

PREPAK 4

PREPAK 5

PREPAK 6

PREPAK 7

PREPAK 8

PREPAK 9

PREPAK 10

PREPAK 11

PREPAK 12

PREPAK 13

PREPAK 14

PREPAK 15

PREPAK 16

PREPAK 17

PREPAK 18

PREPAK 19

PREPAK 20

PREPAK 21

PREPAK 22

PREPAK 23

PREPAK 24

PREPAK 25

PREPAK 26

PREPAK 27

PREPAK 28

PREPAK 29

PREPAK 30

PREPAK 31

PREPAK 32

PREPAK 33

PREPAK 34

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PREPAK 36

PREPAK 37

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PREPAK 41

PREPAK 42

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PREPAK 54

PREPAK 55

PREPAK 56

PREPAK 57

PREPAK 58

PREPAK 59

PREPAK 60

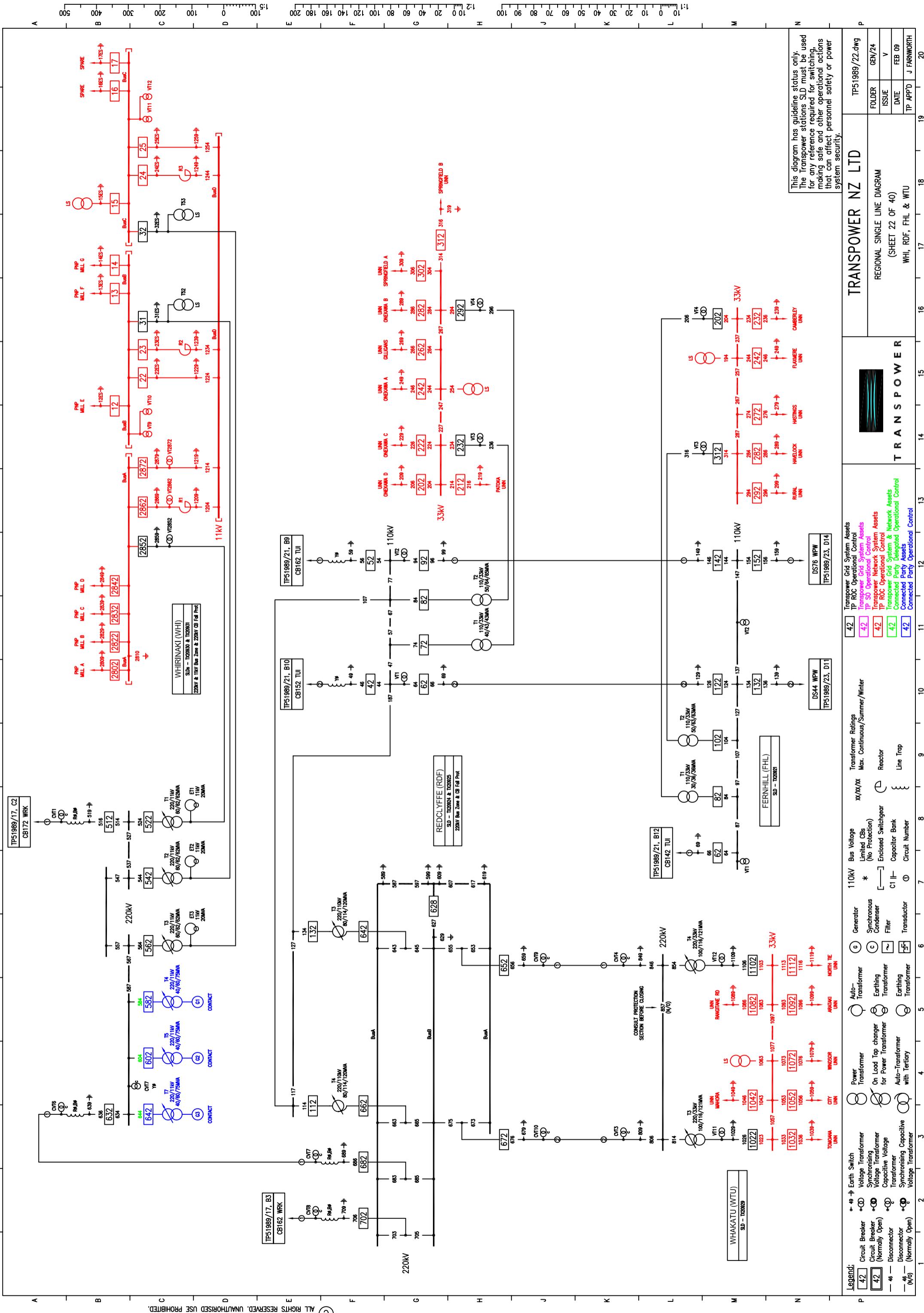
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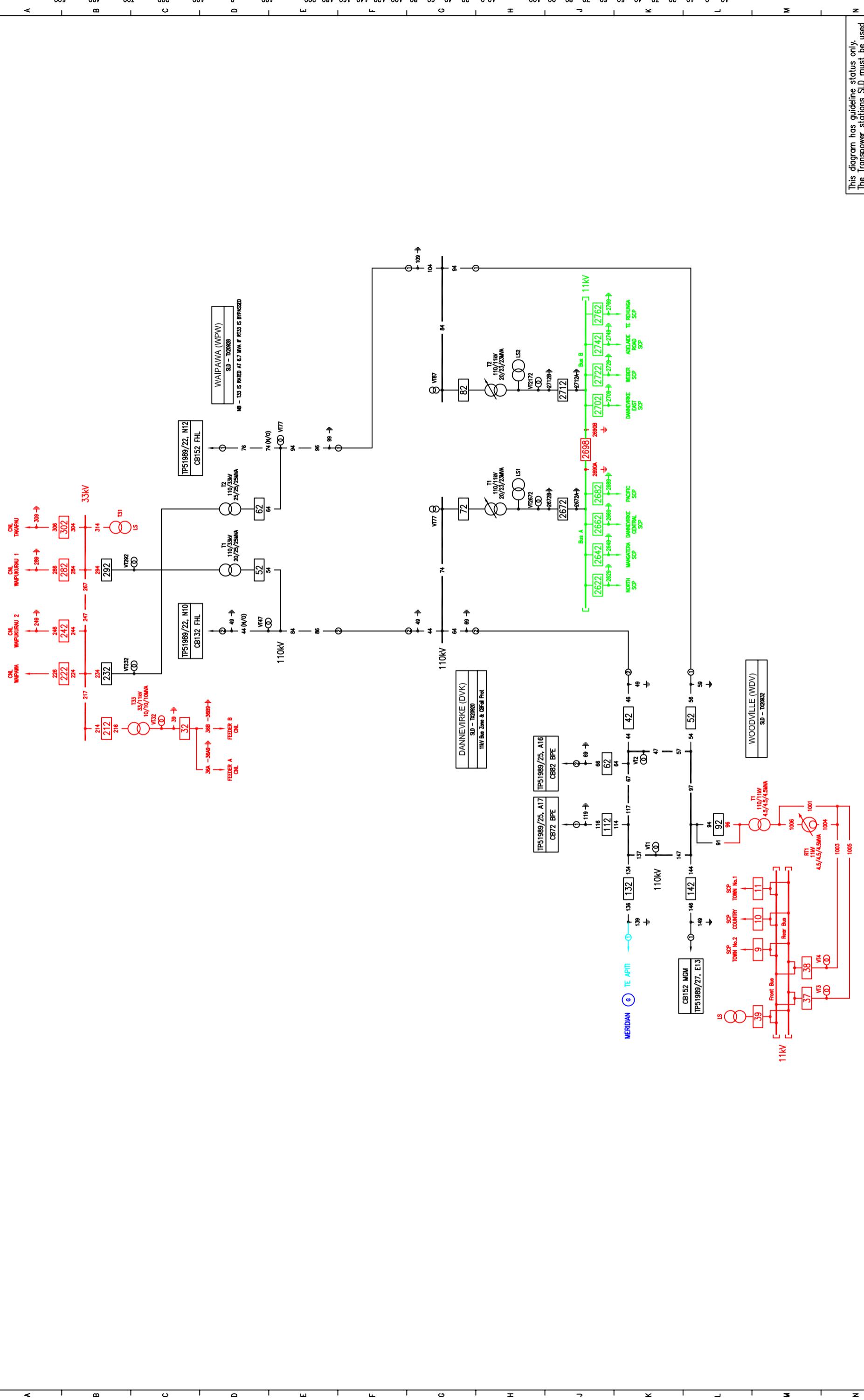
PREPAK 62

PREPAK 63

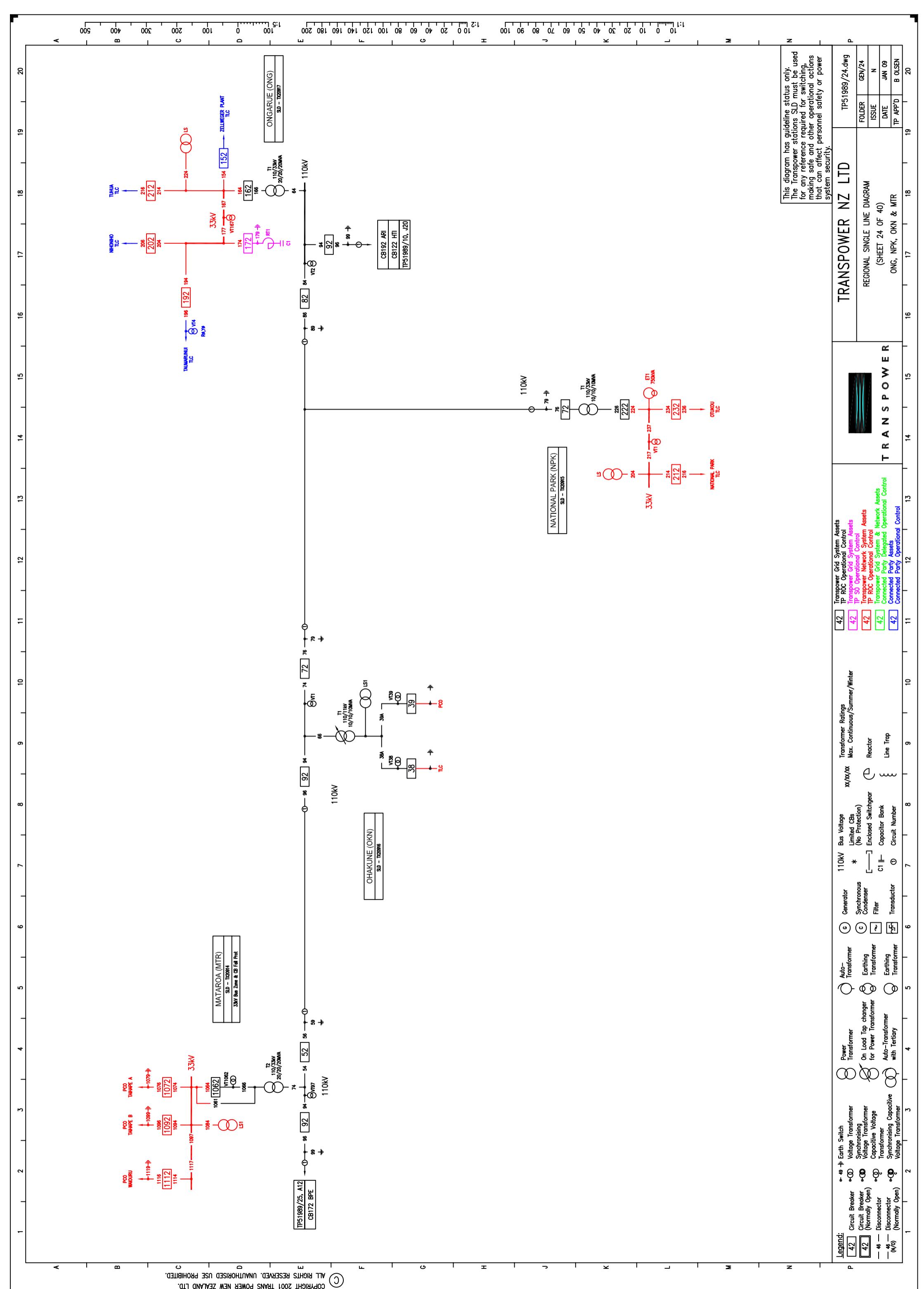
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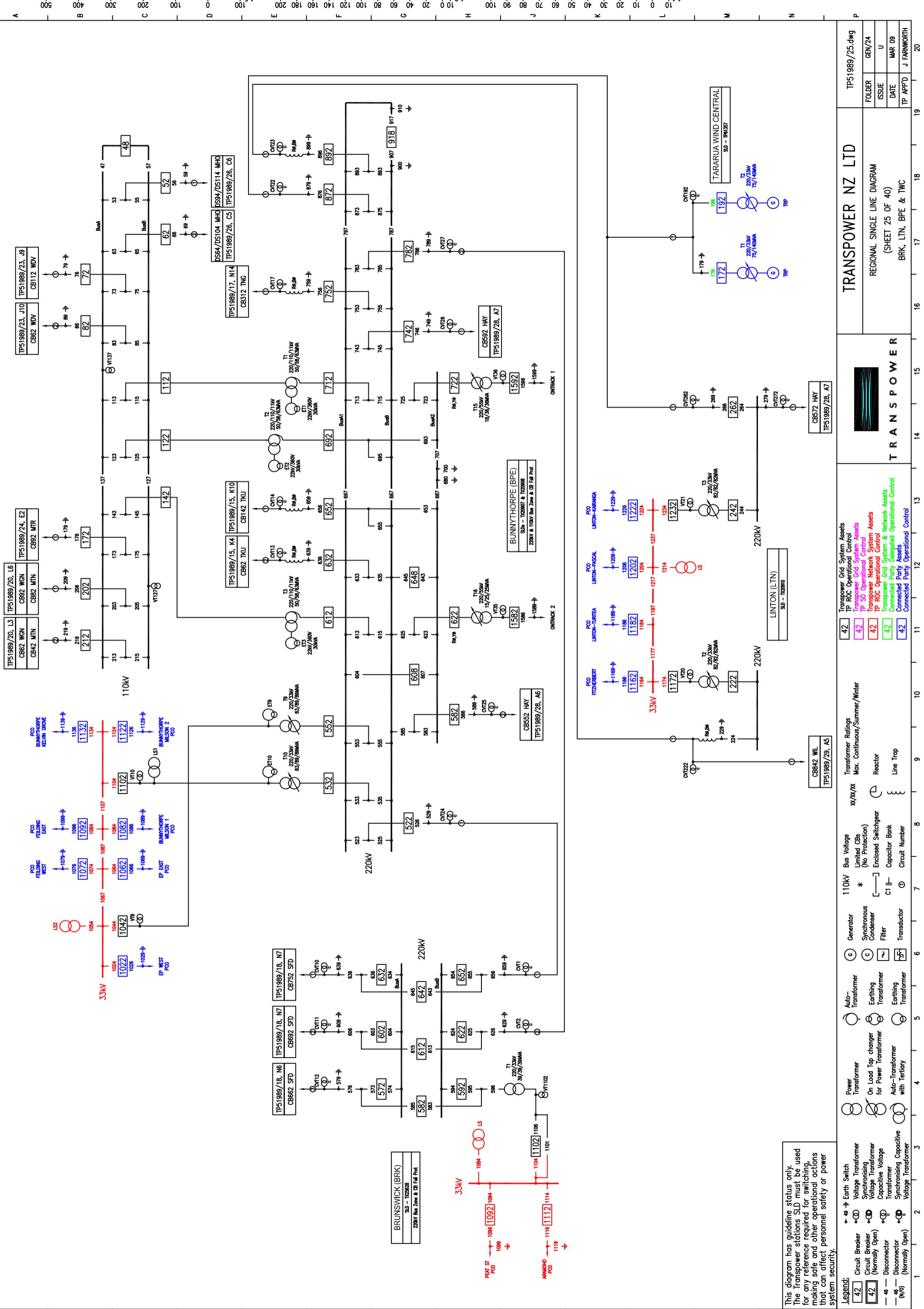
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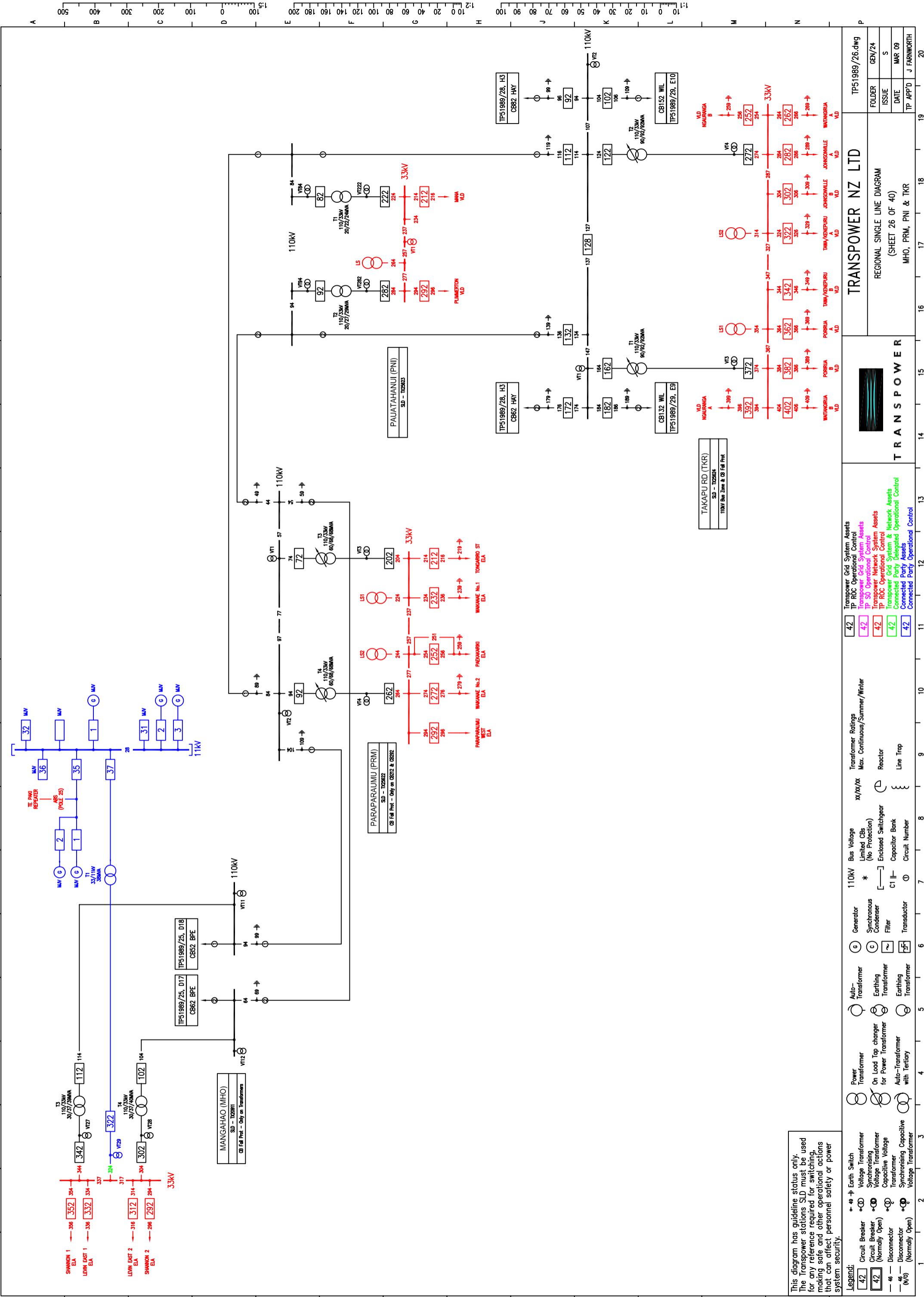


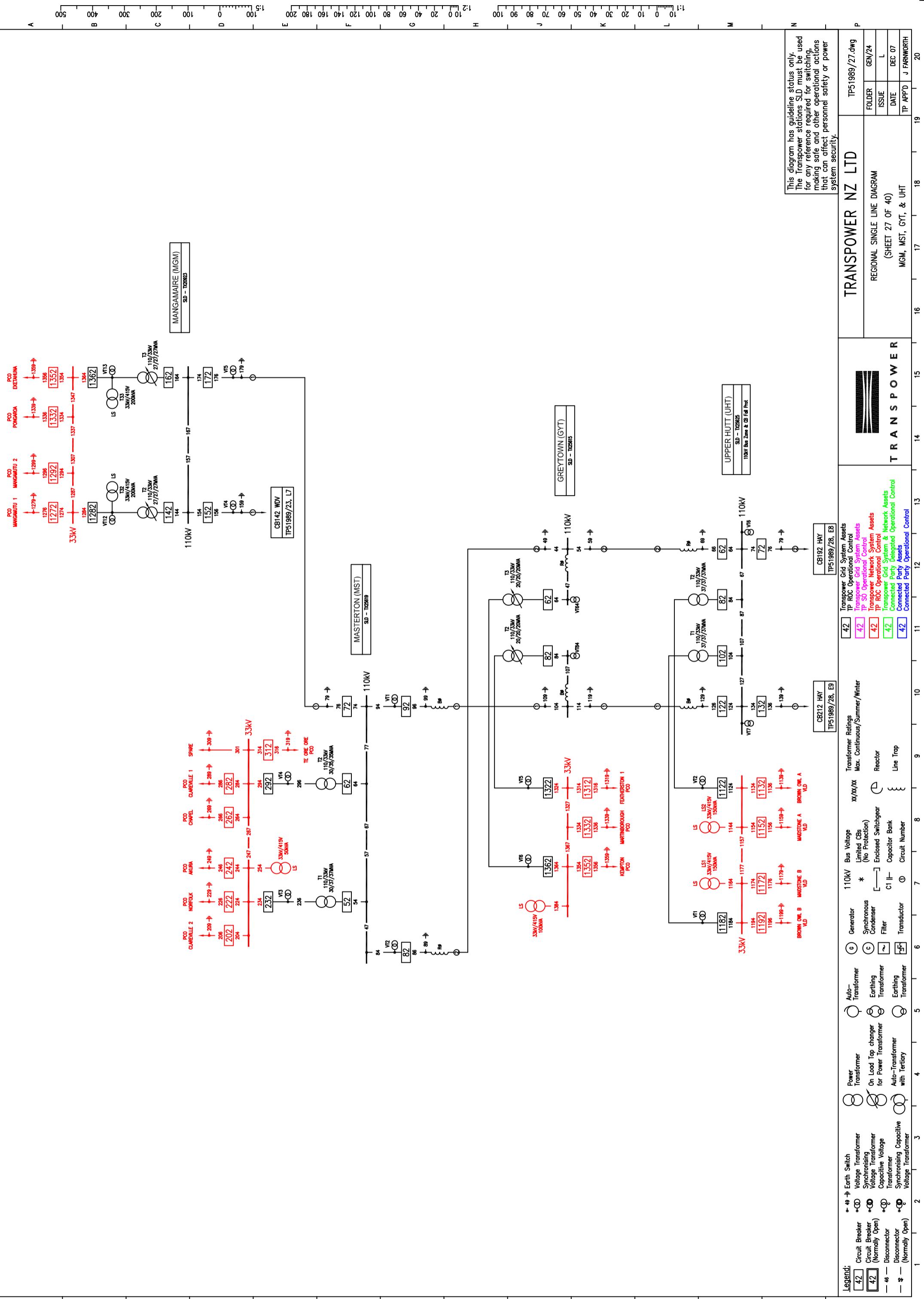


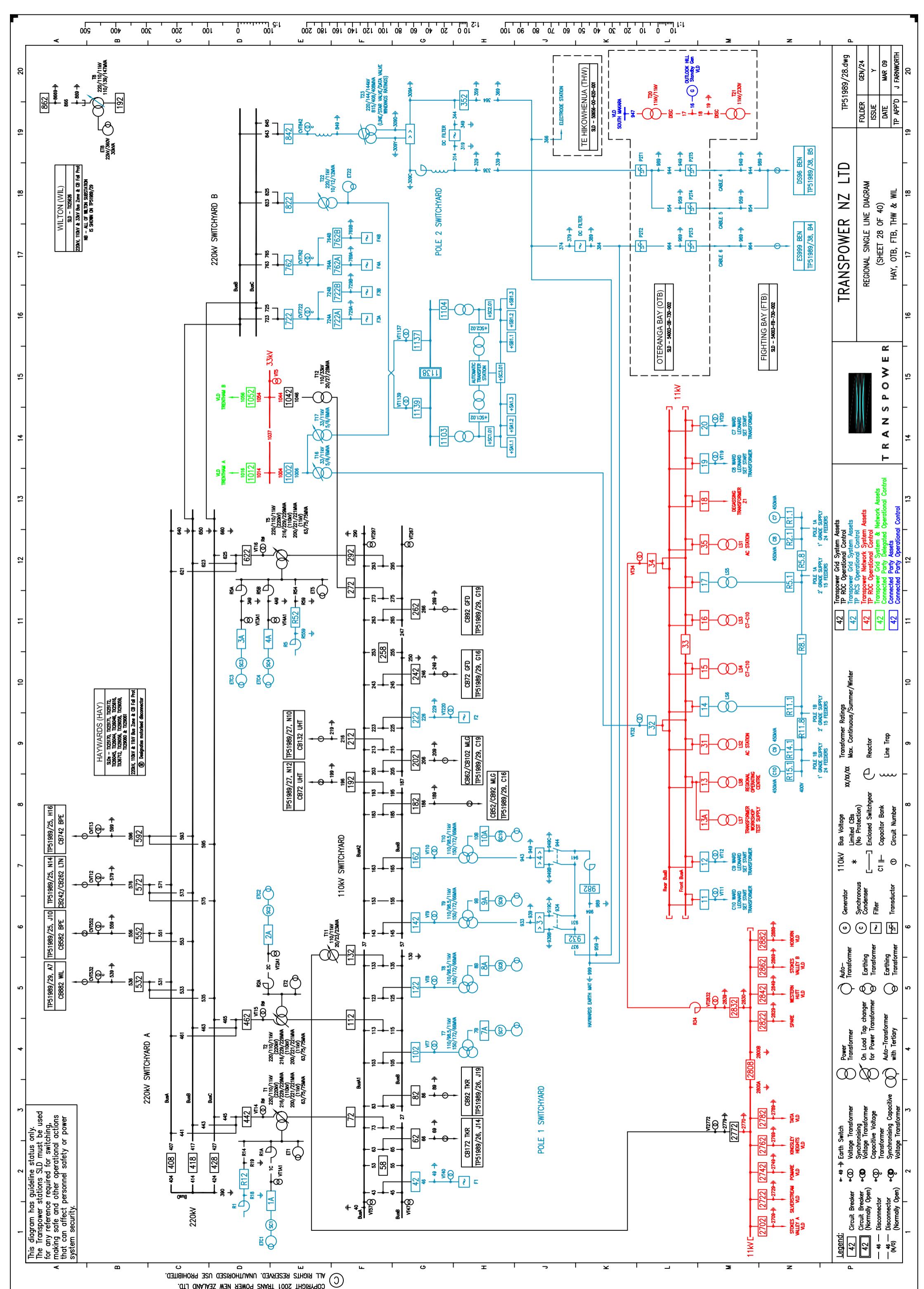
This diagram has guideline status only.  
The Transpower stations SLD must be used  
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making safe and other operational actions  
that can affect personnel safety or power  
system security.

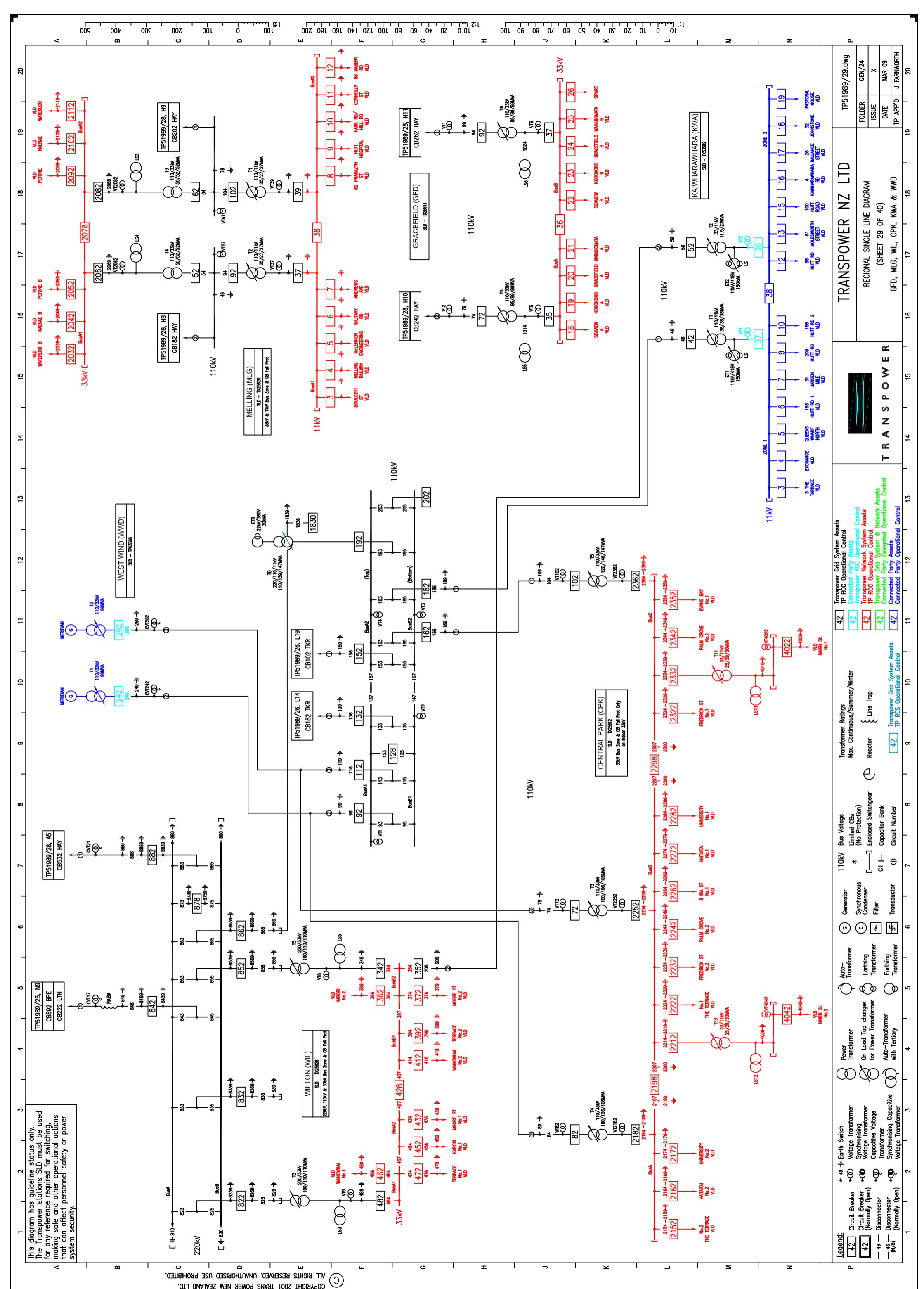


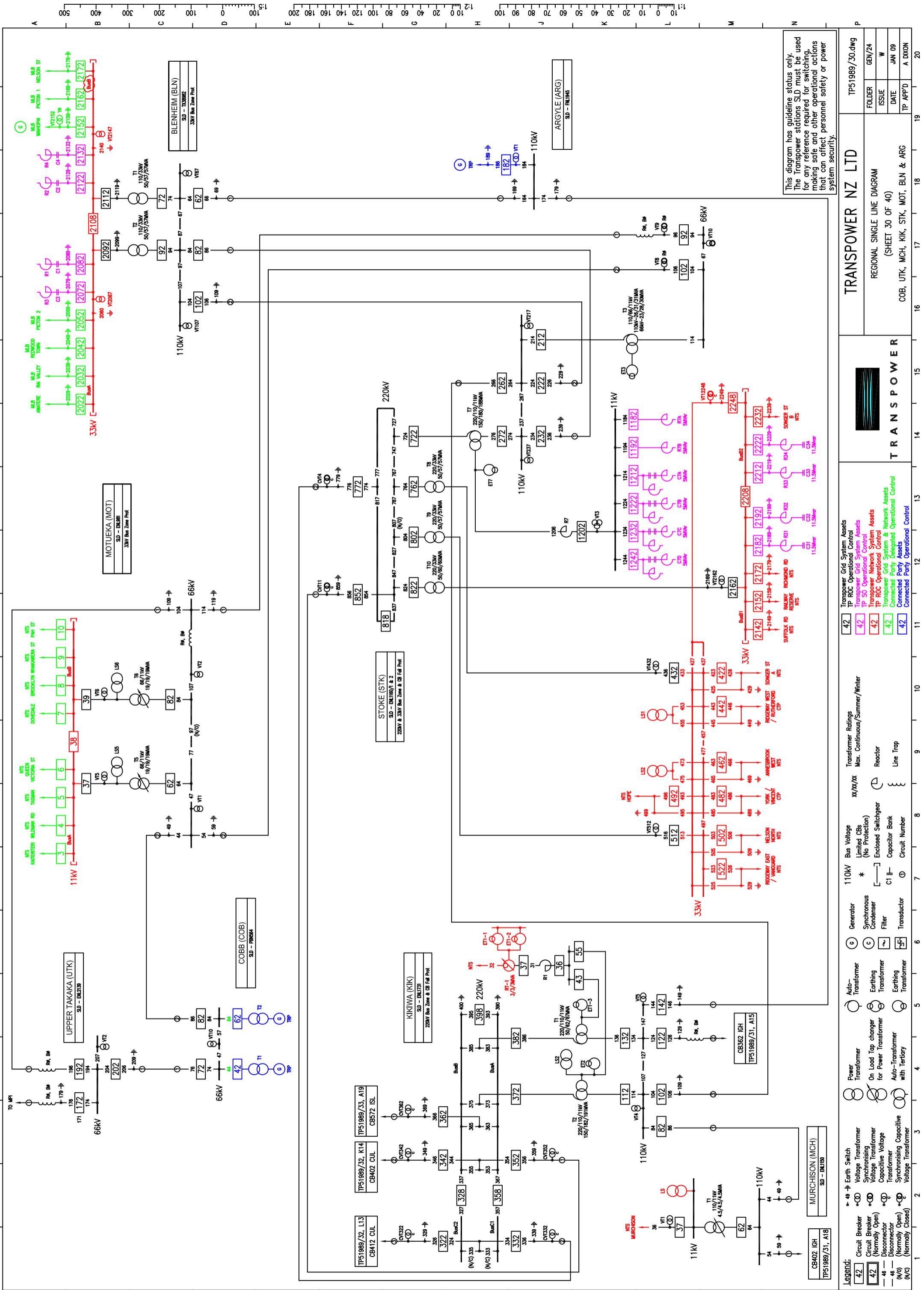


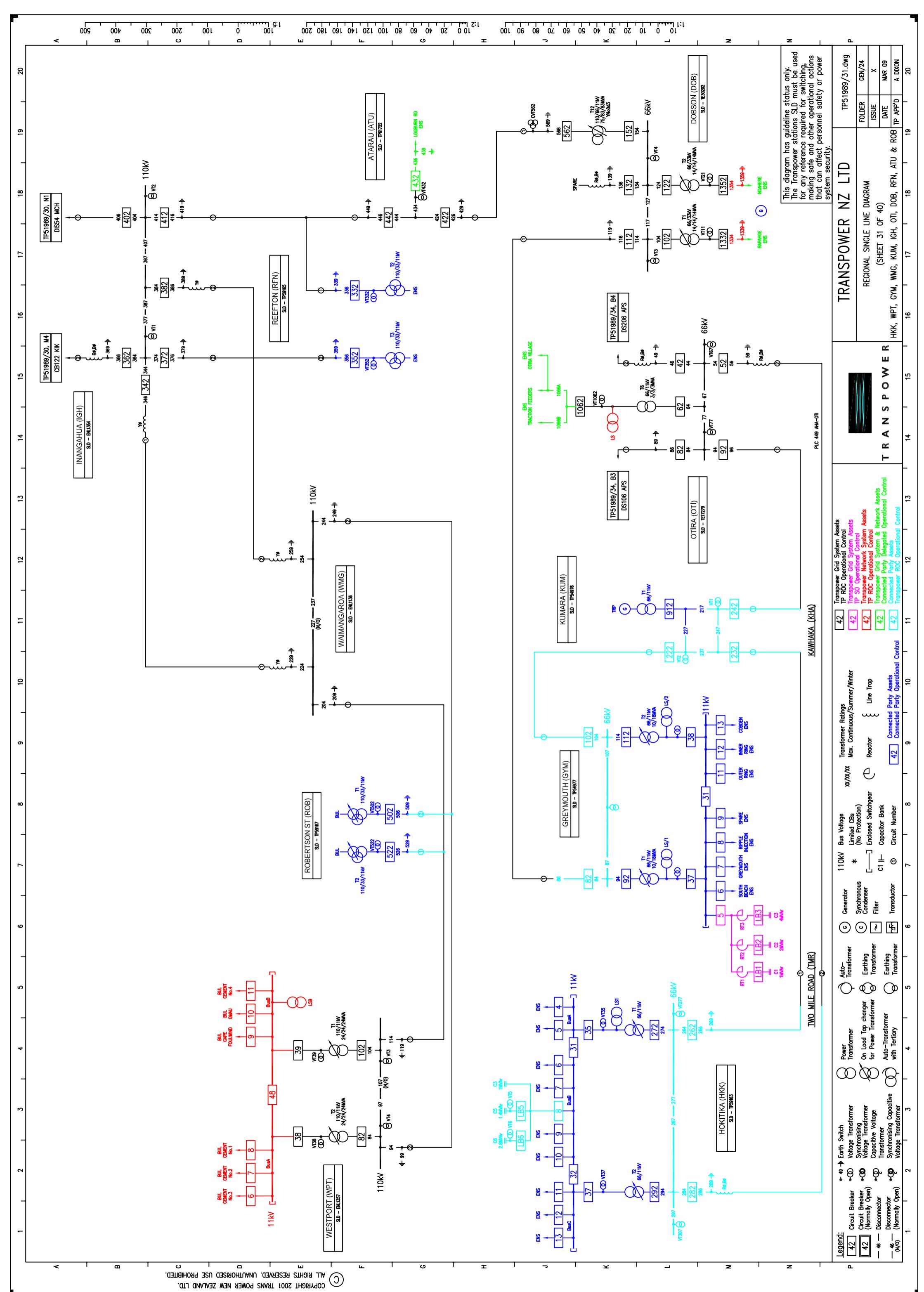


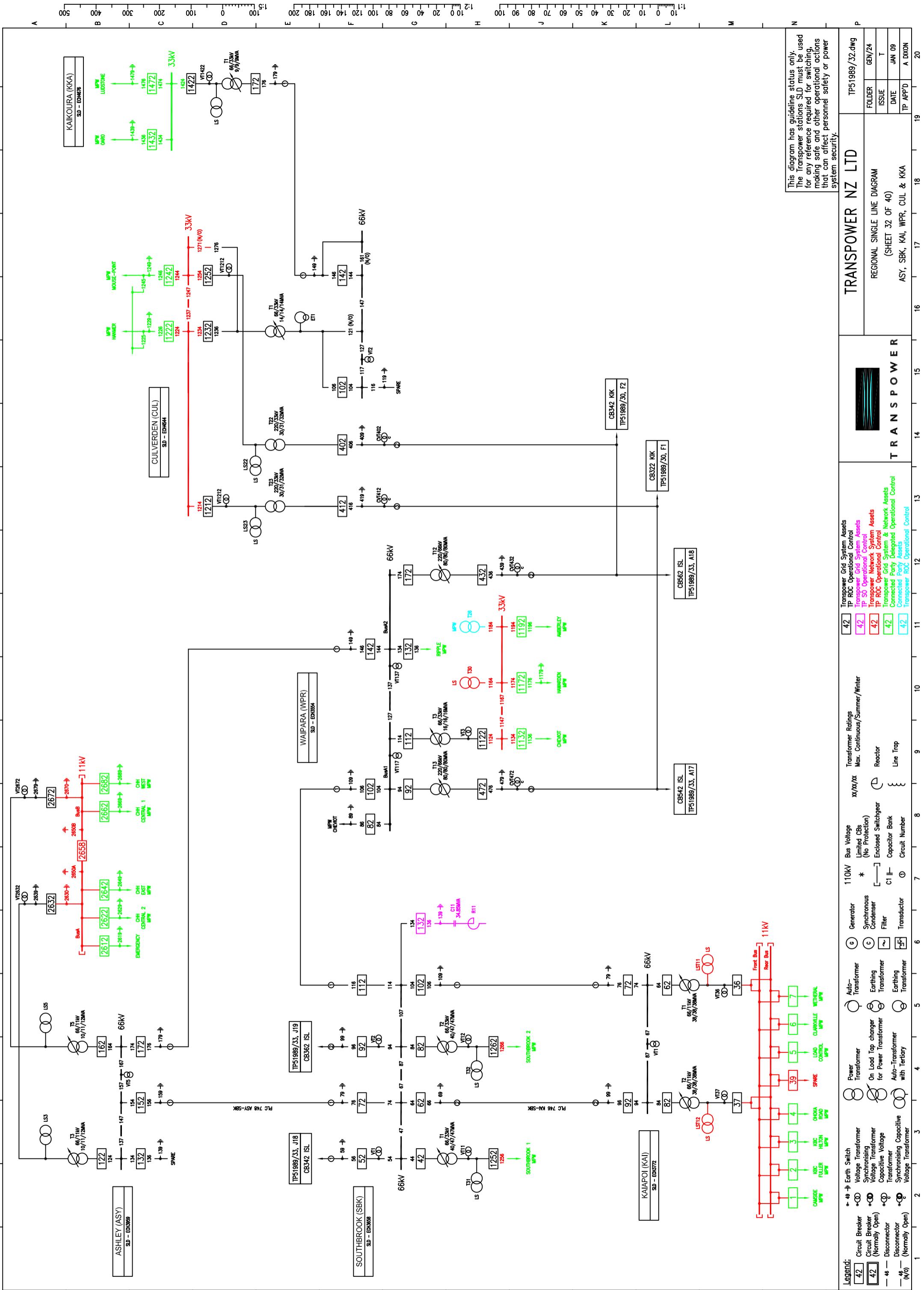


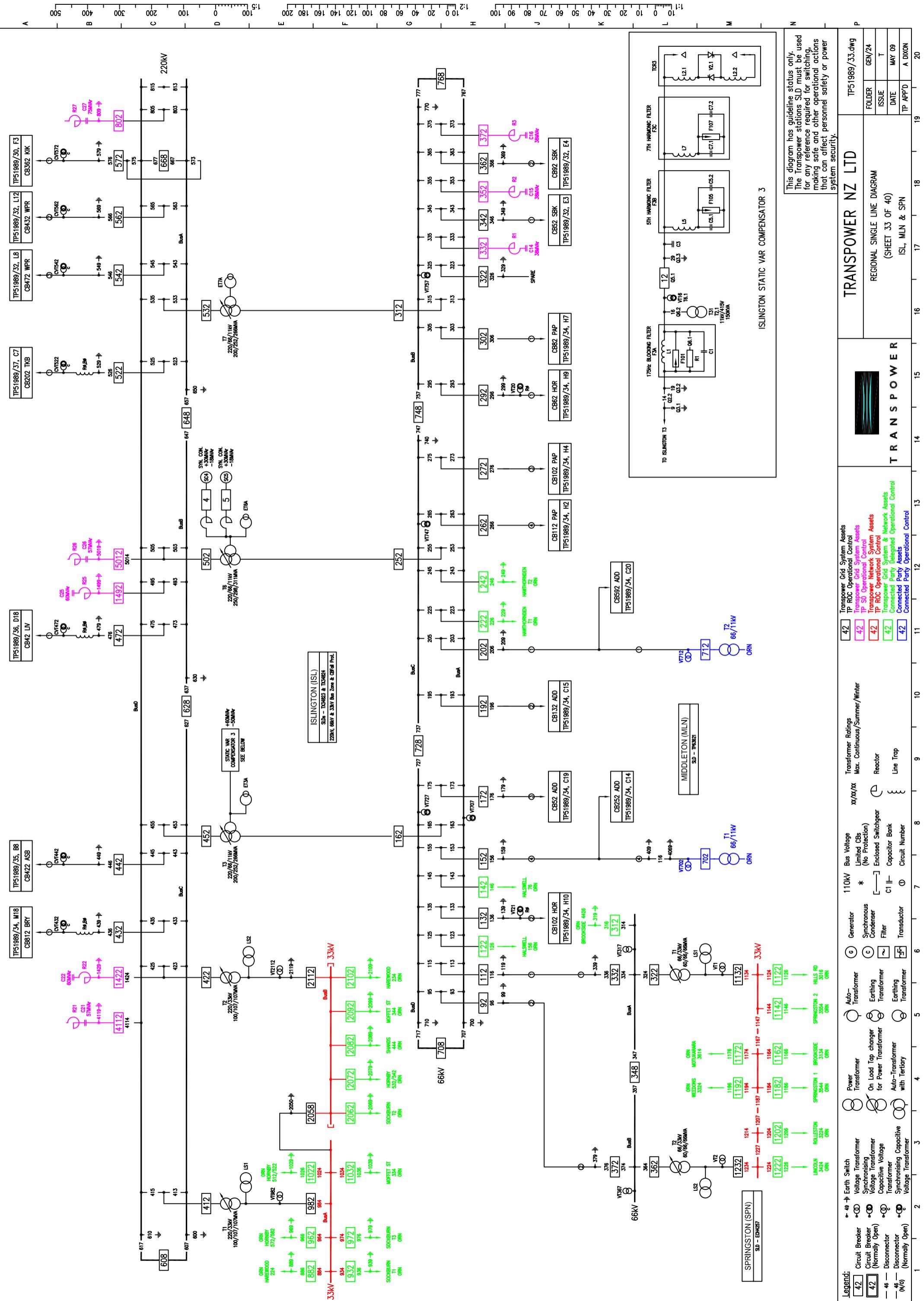


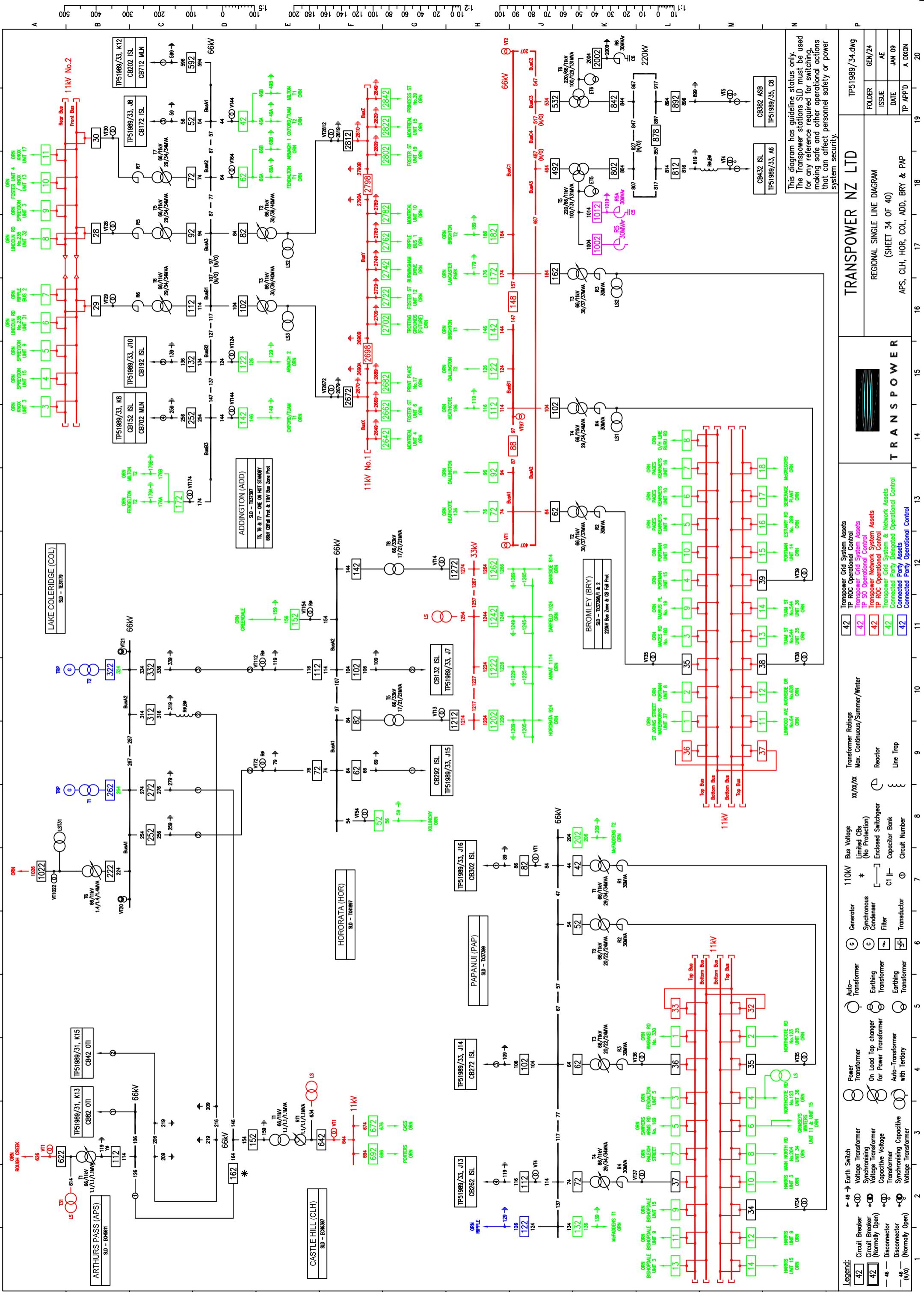


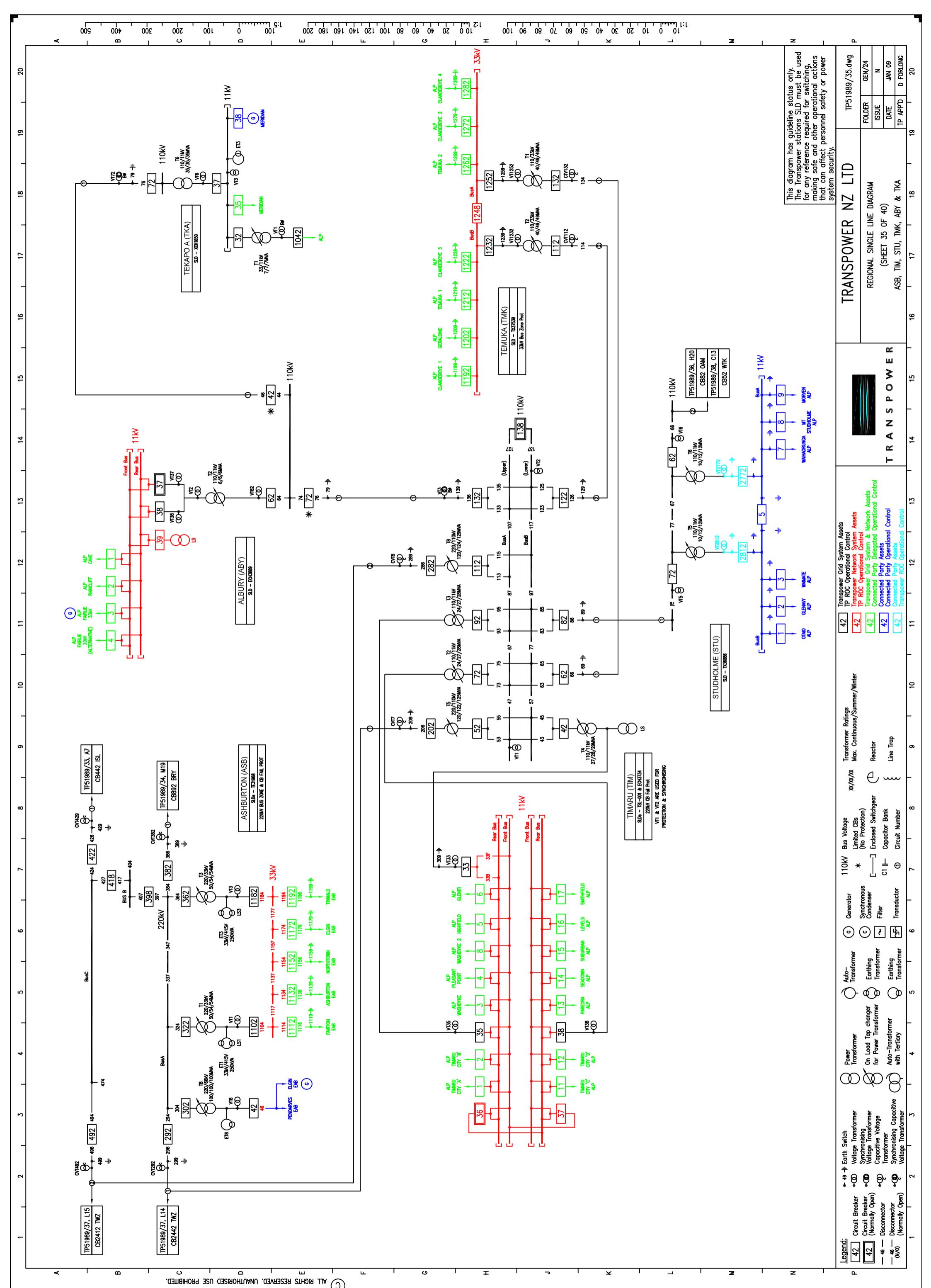


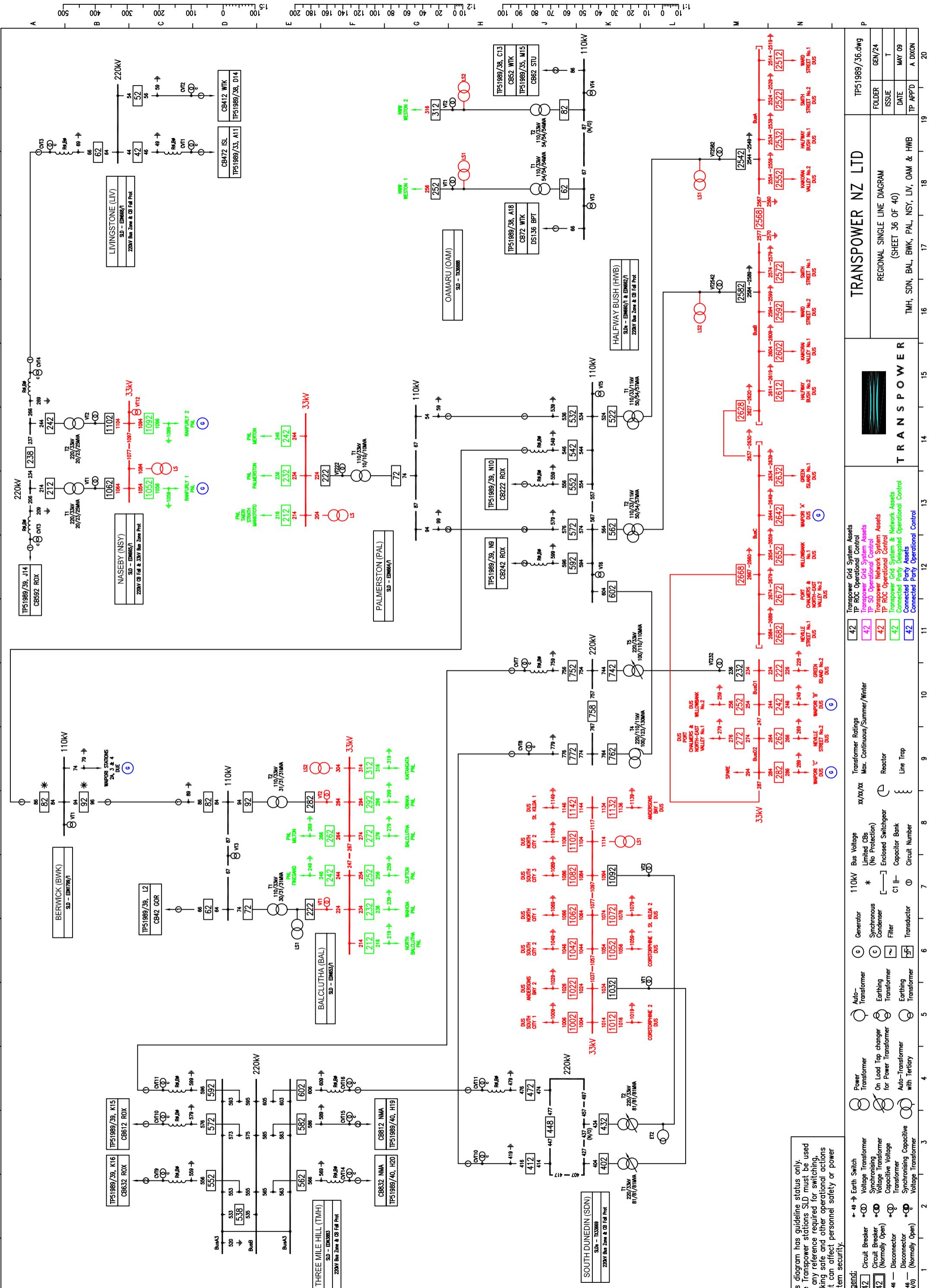


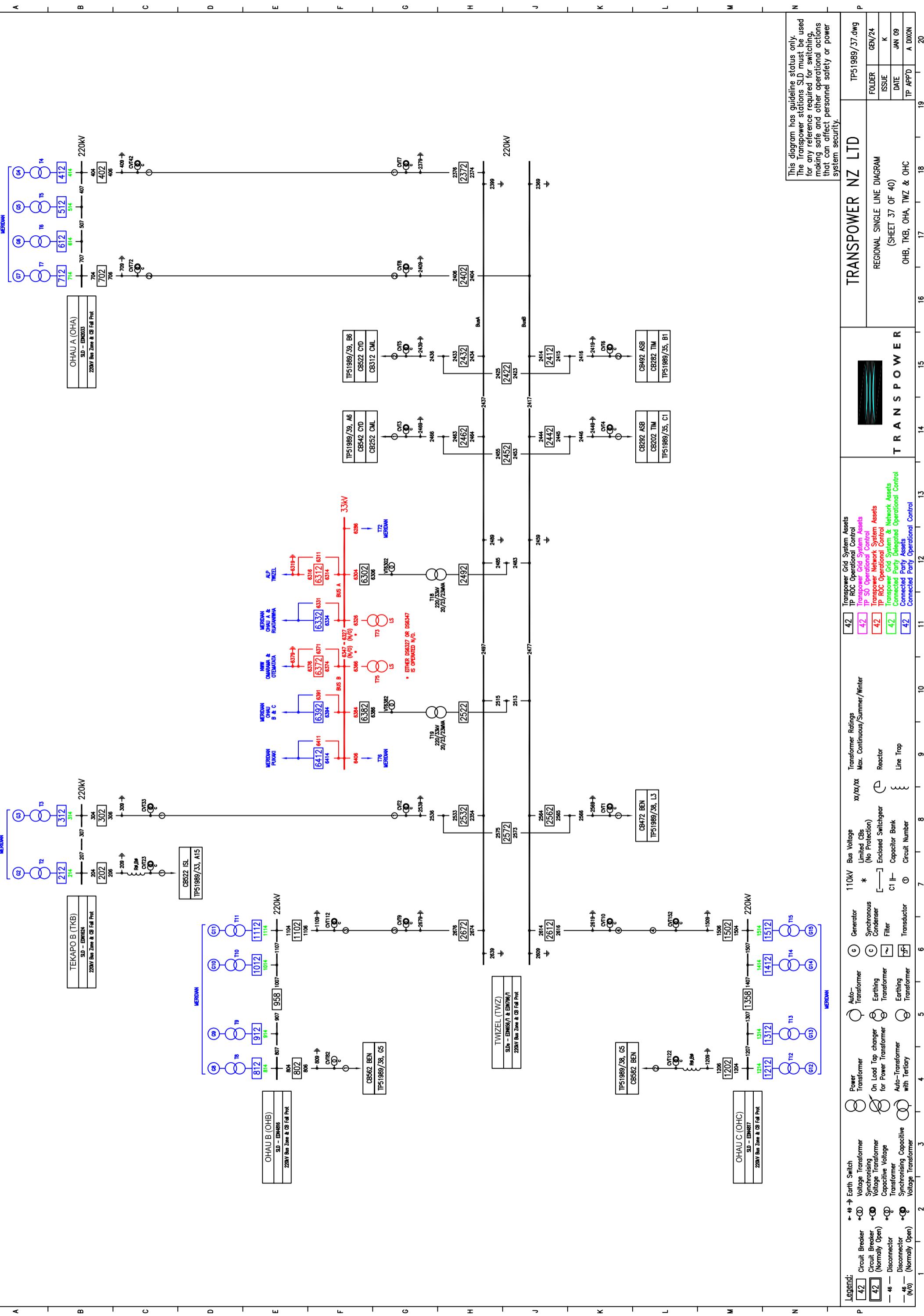




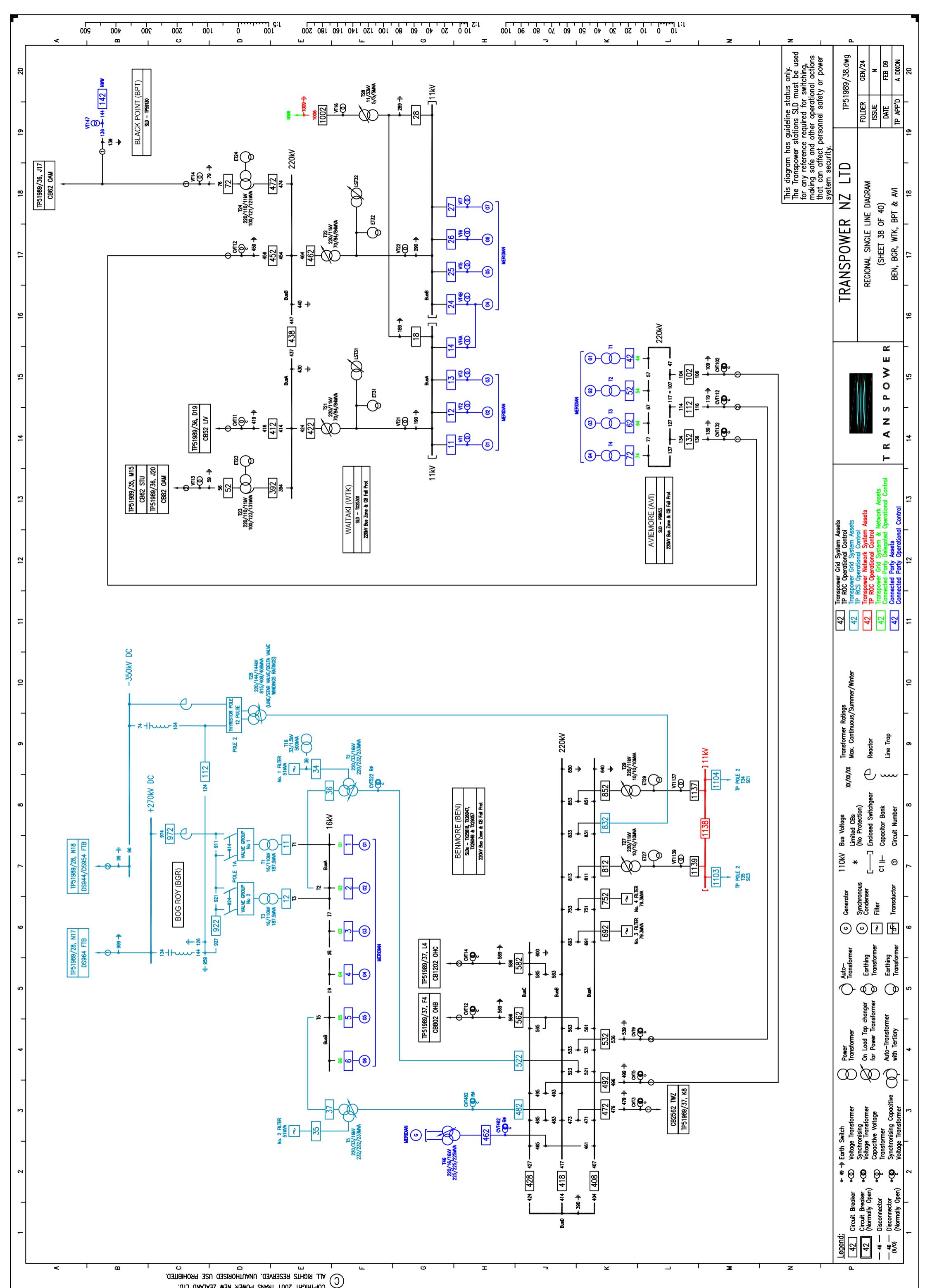


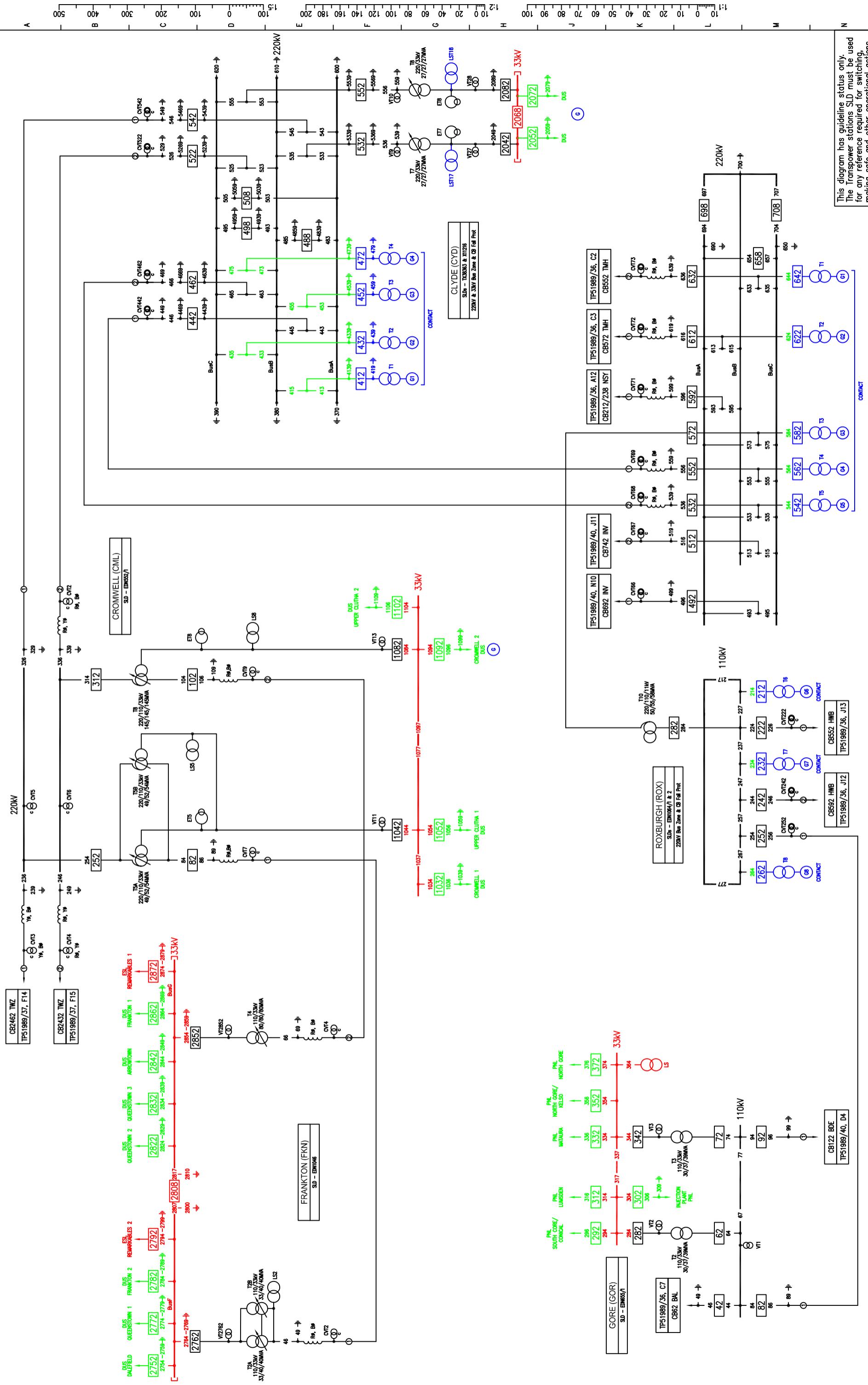






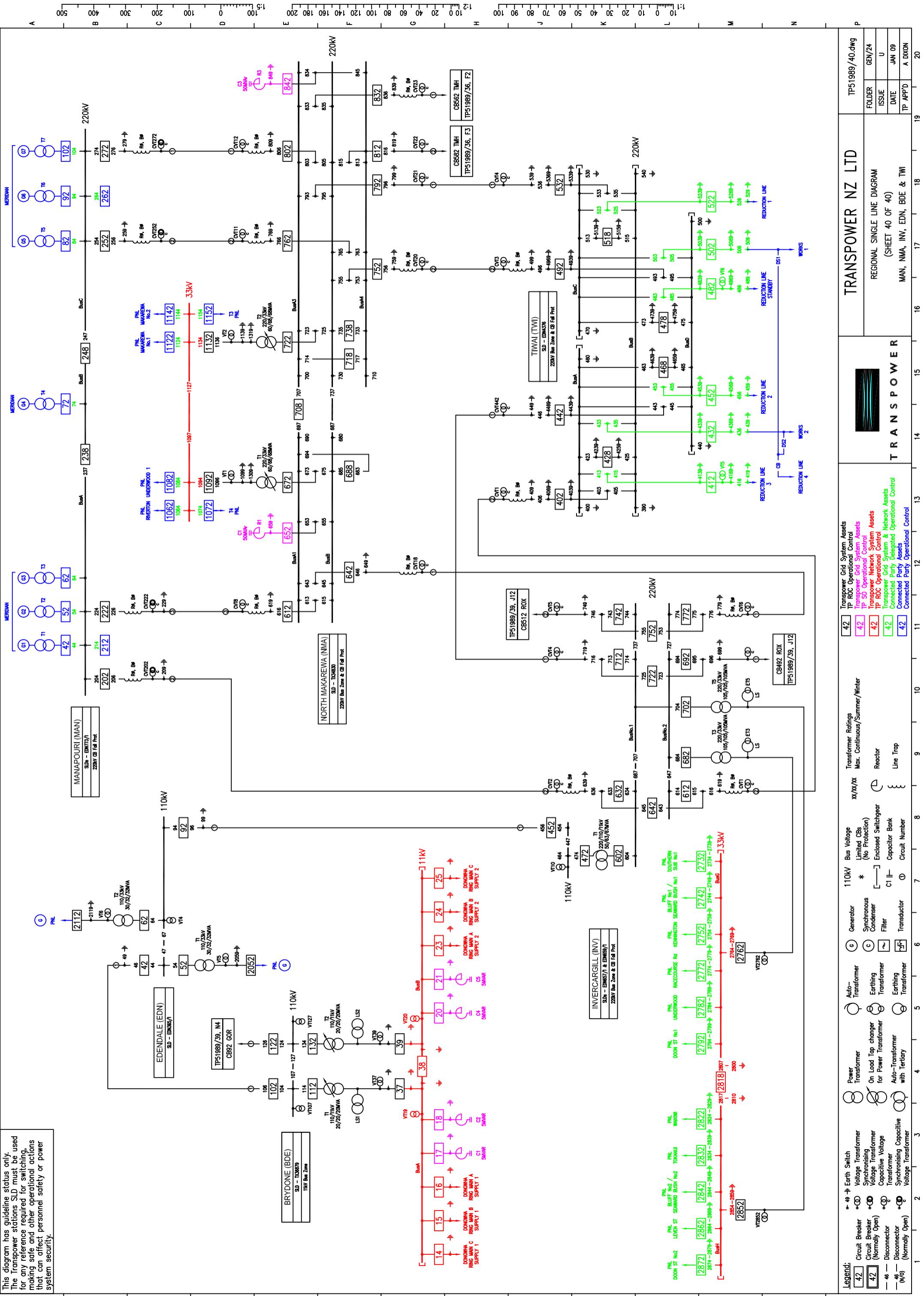
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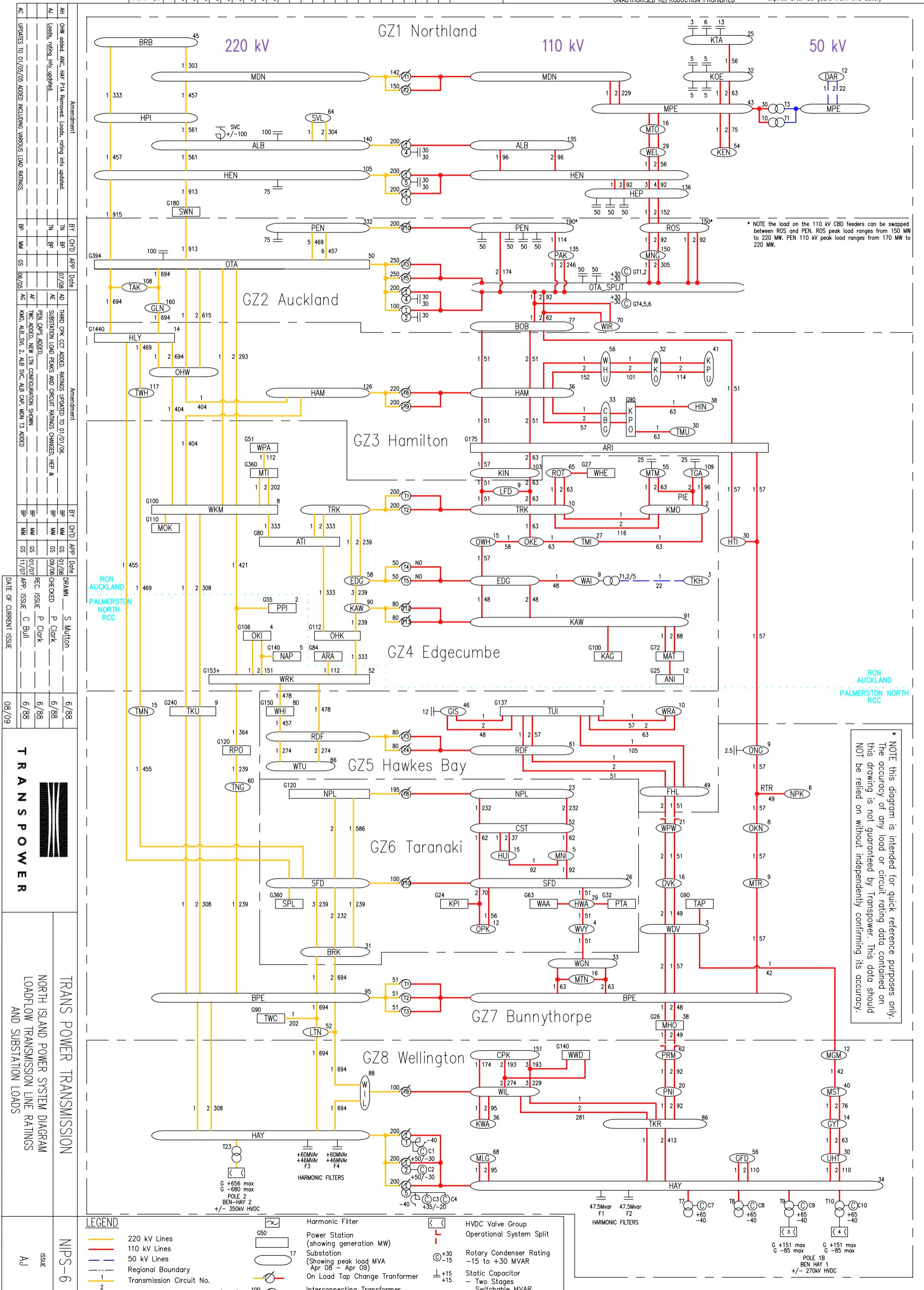




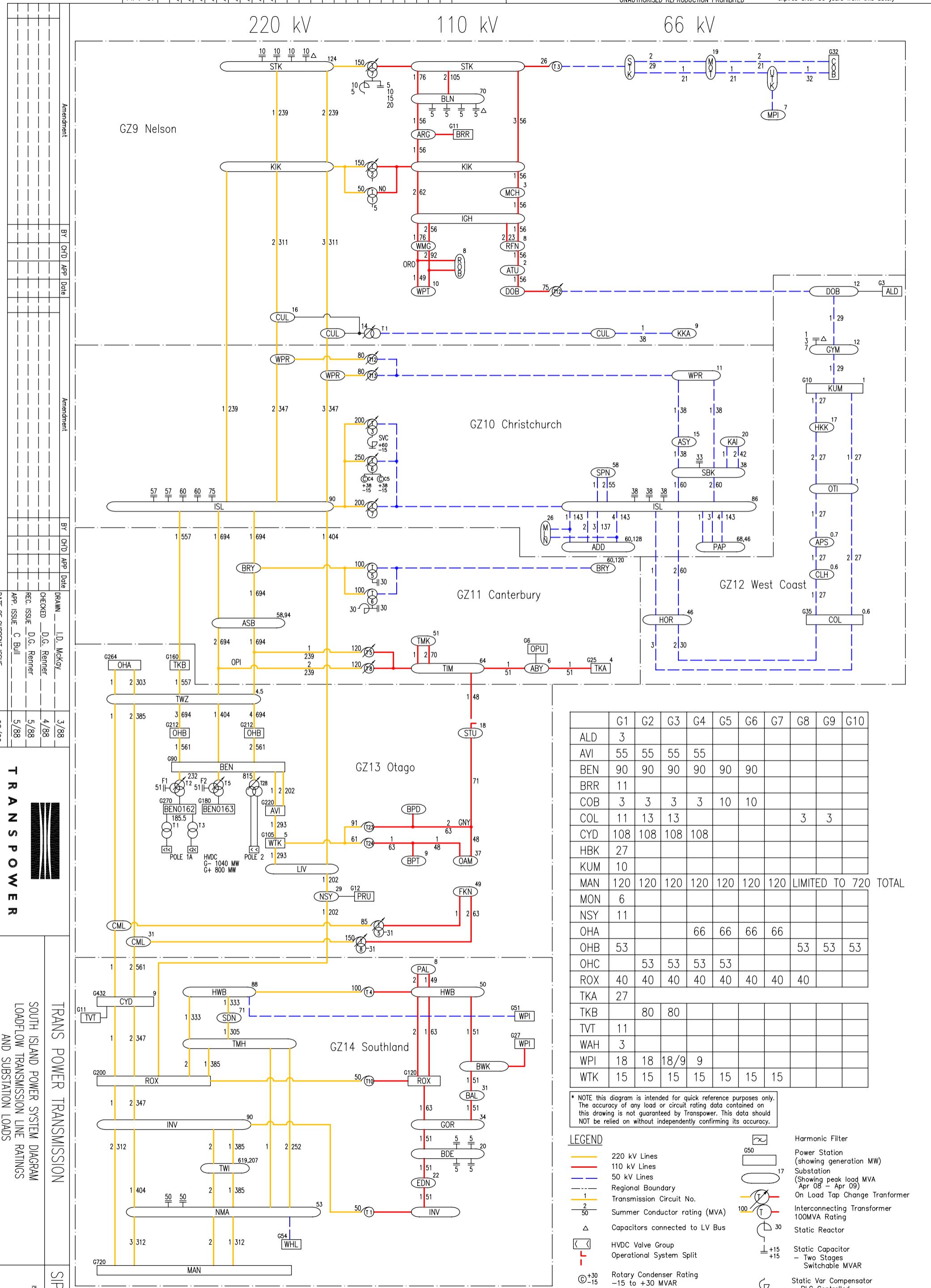
including surveillance and other operational actions that can affect personnel safety or power system security.

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(Note: The year stated would be the year that the drawing was produced. Under Copyright Law, any Copyright expires after 50 years from this date.)



|     | G1  | G2  | G3   | G4  | G5  | G6  | G7  | G8         | G9  | G10   |
|-----|-----|-----|------|-----|-----|-----|-----|------------|-----|-------|
| ALD | 3   |     |      |     |     |     |     |            |     |       |
| AVI | 55  | 55  | 55   | 55  |     |     |     |            |     |       |
| BEN | 90  | 90  | 90   | 90  | 90  | 90  |     |            |     |       |
| BRR | 11  |     |      |     |     |     |     |            |     |       |
| COB | 3   | 3   | 3    | 3   | 10  | 10  |     |            |     |       |
| COL | 11  | 13  | 13   |     |     |     |     | 3          | 3   |       |
| CYD | 108 | 108 | 108  | 108 |     |     |     |            |     |       |
| HBK | 27  |     |      |     |     |     |     |            |     |       |
| KUM | 10  |     |      |     |     |     |     |            |     |       |
| MAN | 120 | 120 | 120  | 120 | 120 | 120 | 120 | LIMITED TO | 720 | TOTAL |
| MON | 6   |     |      |     |     |     |     |            |     |       |
| NSY | 11  |     |      |     |     |     |     |            |     |       |
| OHA |     |     |      | 66  | 66  | 66  | 66  |            |     |       |
| OHB | 53  |     |      |     |     |     |     | 53         | 53  | 53    |
| OHC |     | 53  | 53   | 53  | 53  |     |     |            |     |       |
| ROX | 40  | 40  | 40   | 40  | 40  | 40  | 40  |            |     |       |
| TKA | 27  |     |      |     |     |     |     |            |     |       |
| TKB |     | 80  | 80   |     |     |     |     |            |     |       |
| TVT | 11  |     |      |     |     |     |     |            |     |       |
| WAH | 3   |     |      |     |     |     |     |            |     |       |
| WPI | 18  | 18  | 18/9 | 9   |     |     |     |            |     |       |
| WTK | 15  | 15  | 15   | 15  | 15  | 15  | 15  |            |     |       |

- \* NOTE this diagram is intended for quick reference purposes only. The accuracy of any load or circuit rating data contained on this drawing is not guaranteed by Transpower. This data should NOT be relied on without independently confirming its accuracy.

## LEGEND

- The diagram illustrates the Western Interconnection System with the following components and their symbols:

  - 220 kV Lines**: Represented by a solid yellow horizontal line.
  - 110 kV Lines**: Represented by a solid red horizontal line.
  - 50 kV Lines**: Represented by a solid blue horizontal line.
  - Regional Boundary**: Represented by a dashed black line.
  - Transmission Circuit No.**: Represented by a vertical line with a number (e.g., 1, 2, 50).
  - Summer Conductor rating (MVA)**: Represented by a circle with a number (e.g., 100, 200).
  - Capacitors connected to LV Bus**: Represented by a triangle symbol.
  - HVDC Valve Group**: Represented by a symbol with two parallel horizontal lines and a vertical line between them.
  - Operational System Split**: Represented by a symbol with a vertical line and a red T-bar.
  - Rotary Condenser Rating**: Represented by a circle with a plus sign and a number (e.g., +30, -15).
  - 15 to +30 MVAR**: Represented by a circle with a minus sign and a plus sign and a number (e.g., -15, +30).
  - 650**: Represented by a rectangle with a number.
  - 17**: Represented by an oval with a number.
  - T**: Represented by a circle with a T inside.
  - 30**: Represented by a circle with a number.
  - +15**: Represented by a vertical line with a plus sign and a number.
  - +15**: Represented by a vertical line with a plus sign and a number.
  - Power Station (showing generation MW)**: Represented by a rectangle.
  - Substation (Showing peak load MVA Apr 08 – Apr 09)**: Represented by an oval.
  - On Load Tap Change Transformer**: Represented by a circle with a gear-like symbol.
  - Interconnecting Transformer 100MVA Rating**: Represented by a circle with a T inside.
  - Static Reactor**: Represented by a circle with a dot inside.
  - Static Capacitor – Two Stages Switchable MVAR**: Represented by a symbol with a vertical line and a horizontal bar.
  - Static Var Compensator PLC Controlled**: Represented by a circle with a square inside.