

DESIGN CRITERIA
 Min Ground Clearance: 6.3m + 0.5m
 Min Road Clearance: 7.5m
 Min Kingbird Temp: -5 °C
 Max Kingbird Temp: 70°C
 Conductor ACSR Kingbird
 Cond Loading Criteria: C_1800 @ 15°C Final
 OPGW
 OPGW Loading Criteria: 12.0% UTS @ 15°C Final

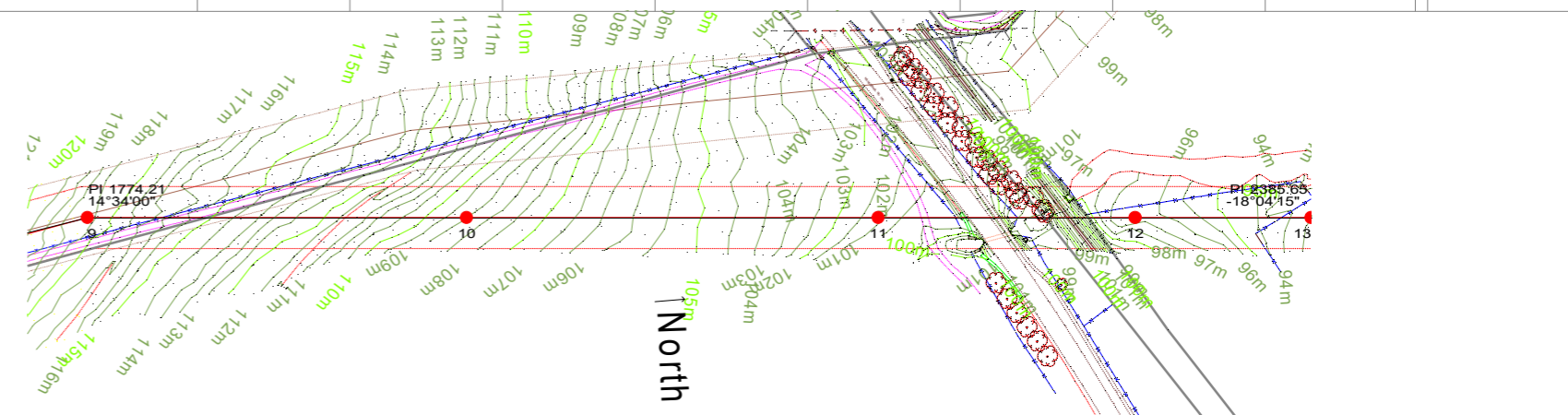
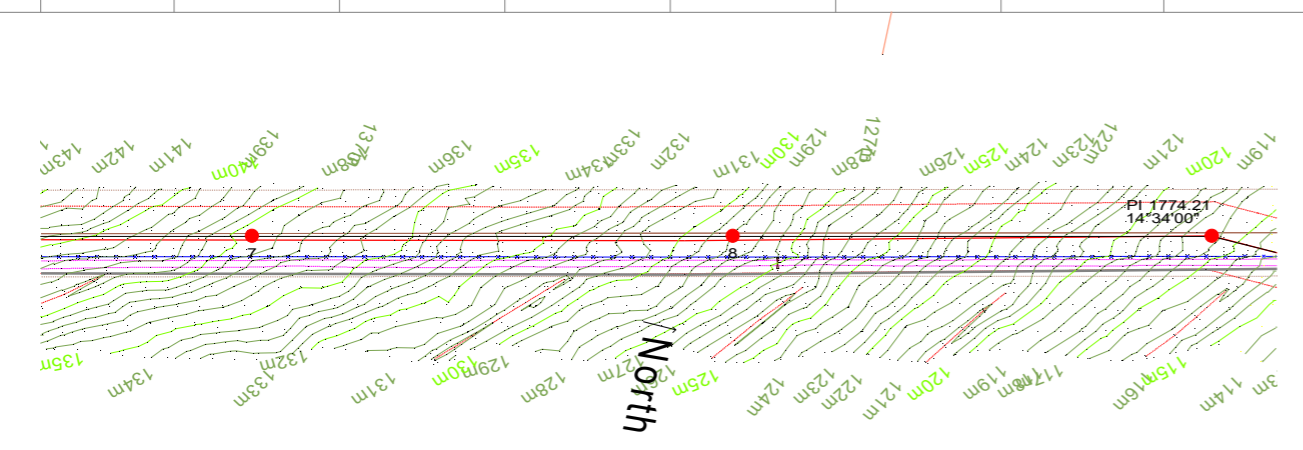
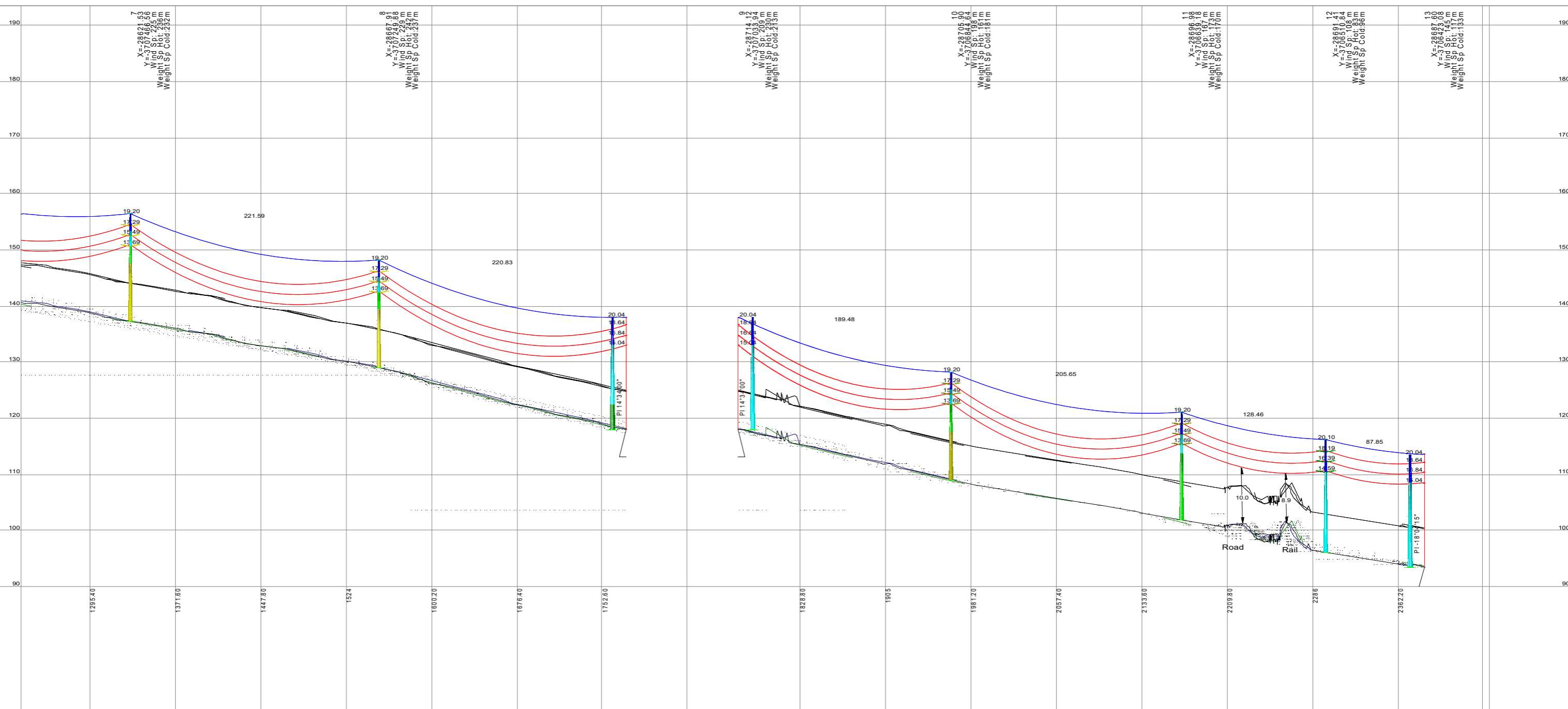
Co Ordinate System:
 WG19: South Africa Hartebeeshoek94
 Design Criteria
 Reliability Level 2

Consultant:
 Lyners Consulting Engineers

Client:
 ESKOM
 Western Cape Region

CONTRACT
 Swartland Municipality
 Schoonspruit Substation
 132kV Loop In / Out Overhead Line
 Dassenburg - Malmesbury
 TITLE
 LINE PROFILE
 Structure 1 to 6

REV	DATE	DESCRIPTION	BY	CHKD	APPROVED	SHT	SCALE	DATE	DRG. No.	REV.
01	08_2022	Prelim Design for DRT	RG	TG	CHECKED	TG	See Scales	11_2023	52 139 1826	01
							1 OF 6		Set 2 Sheet 1 A1	



25.0 m Horiz. Scale
5.0 m Vert. Scale

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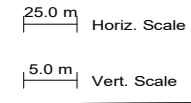
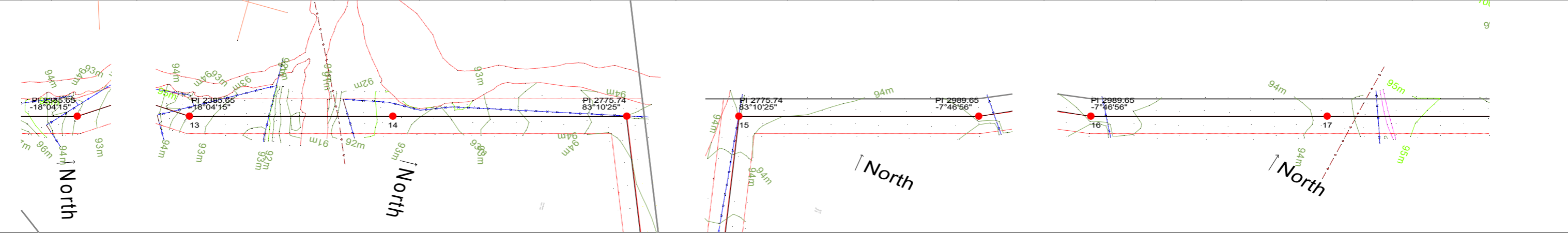
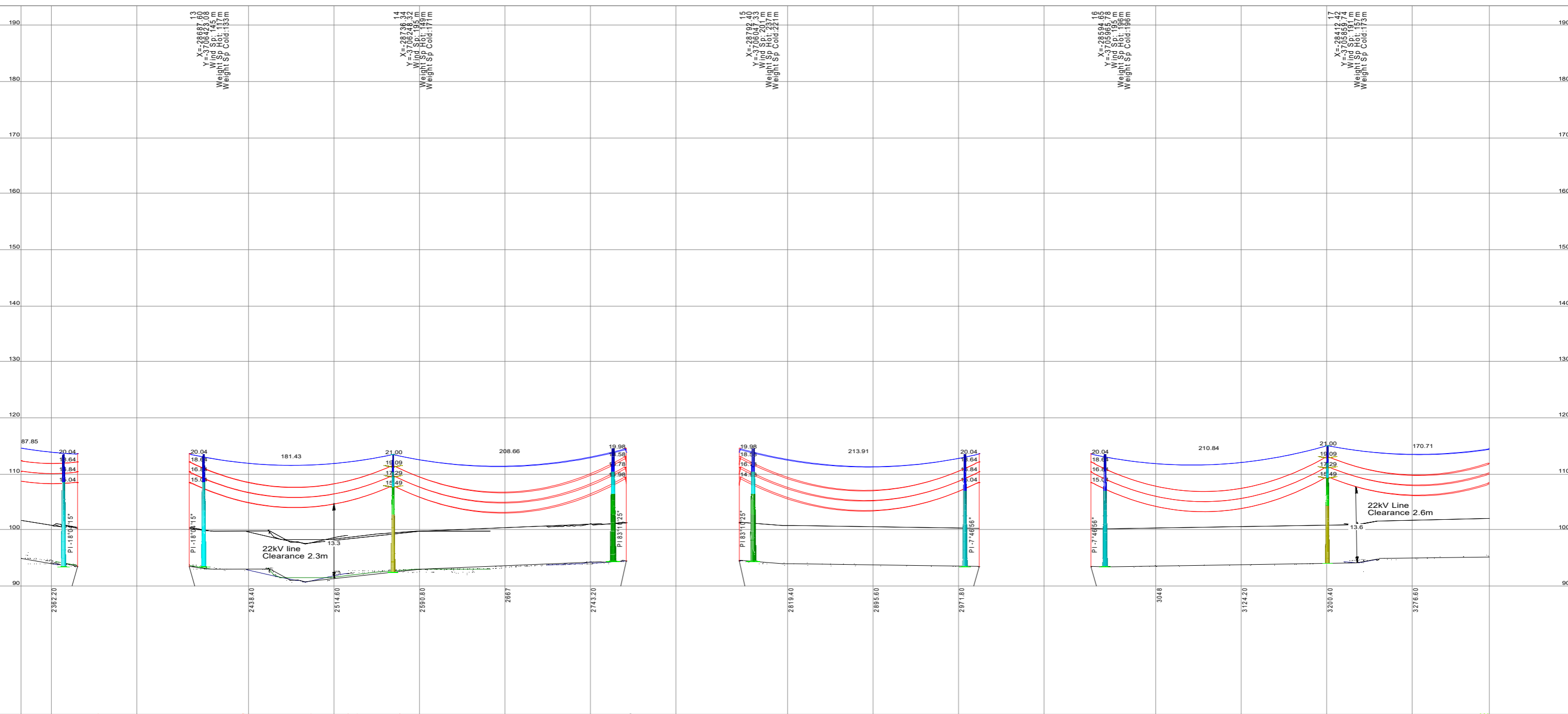
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**Swartland Municipality
 Schoonspruit Substation
 132kV Loop In / Out Overhead Line
 Dassenburg - Malmesbury**
 TITLE
**LINE PROFILE
 Structure 7 to 13**

REV	DATE	DESCRIPTION	BY	CHKD	APPROVED	DRAWN	RG	DATE	11_2023	DRG. No.	REV.
01	08_2022	Prelim Design for DRT	RG	TG	CHECKED	TG	DATE	11_2023	DRG. No.	52 139 1826	01
								2 OF 6		Set 2 Sheet 1 A1	



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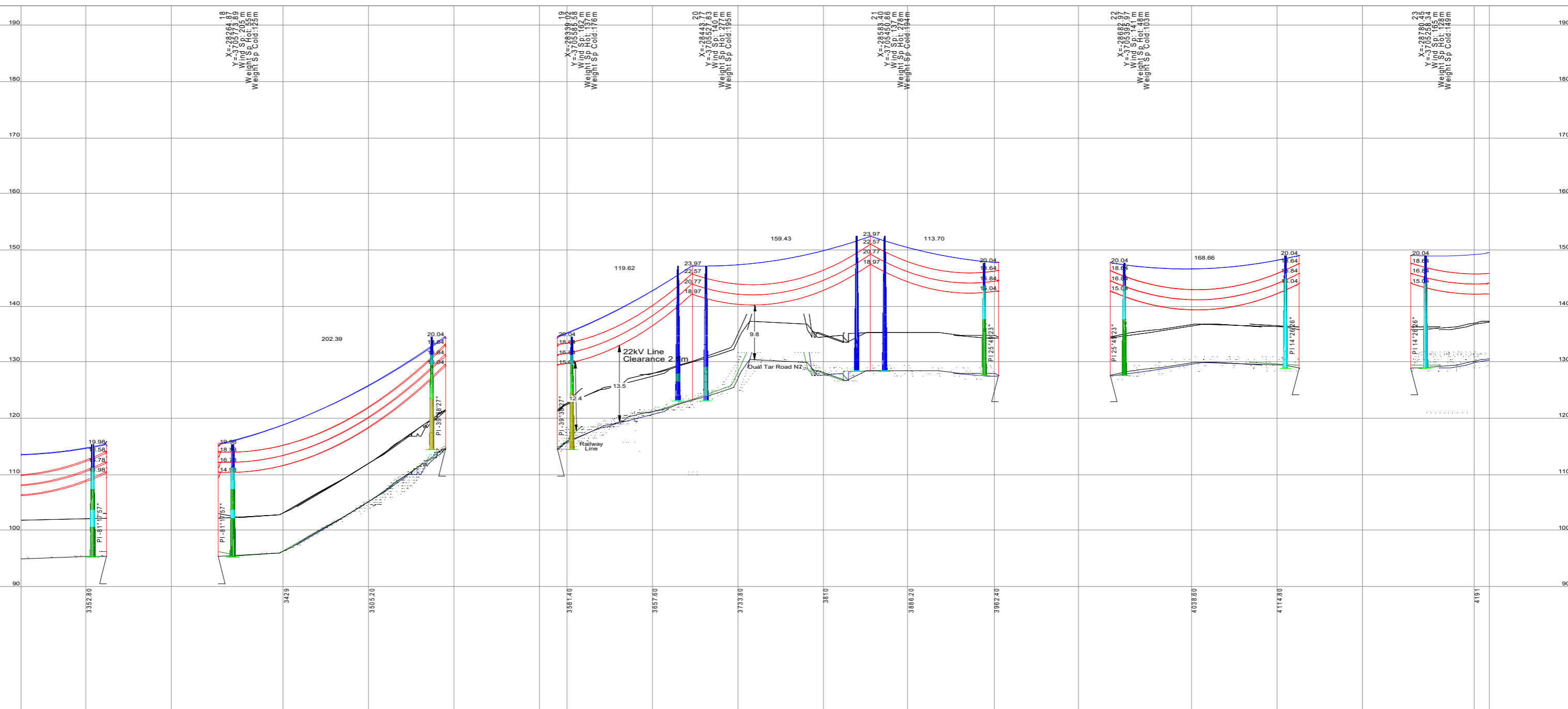
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CONTRACT
 Swartland Municipality
 Schoonspruit Substation
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 LINE PROFILE
 Structure 13 to 17

REV	DATE	DESCRIPTION	BY	CHKD	APPROVED	DRAWN	RG	DATE	11_2023	DRG. No.	REV.
01	08_2022	Prelim Design for DRT	RG	TG	CHECKED	TG	SCALE	See Scales		52 139 1826	01
							SHT	3 OF 6		Set 2 Sheet 1 A1	



18
X=-2829.87
Y=-3706565.58
Wind Sp. Hot: 70.5 m
Weight Sp. Hot: 55 m
Weight Sp. Cold: 125 m

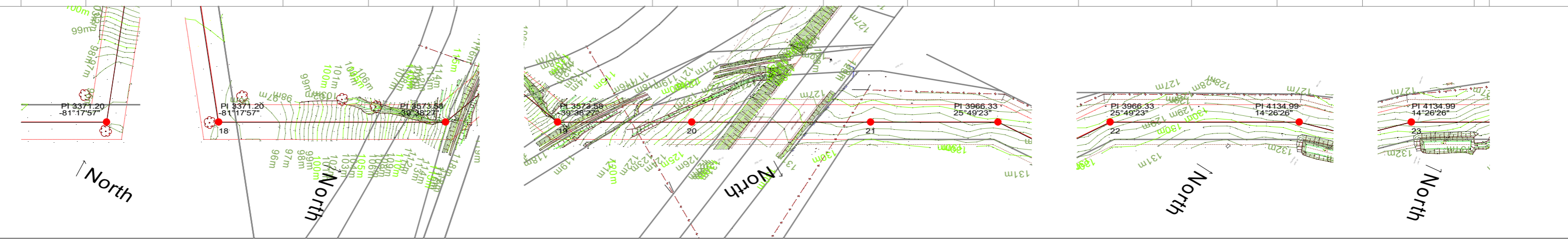
19
X=-28339.09
Y=-3706565.58
Wind Sp. Hot: 107 m
Weight Sp. Hot: 176 m

20
X=-28443.20
Y=-3706557.83
Wind Sp. Hot: 140 m
Weight Sp. Hot: 375 m
Weight Sp. Cold: 150 m

21
X=-28599.80
Y=-3706557.83
Wind Sp. Hot: 137 m
Weight Sp. Hot: 278 m
Weight Sp. Cold: 144 m

22
X=-28662.97
Y=-3706557.83
Wind Sp. Hot: 137 m
Weight Sp. Hot: 46 m
Weight Sp. Cold: 103 m

23
X=-28780.45
Y=-3706266.34
Wind Sp. Hot: 122 m
Weight Sp. Hot: 122 m
Weight Sp. Cold: 143 m



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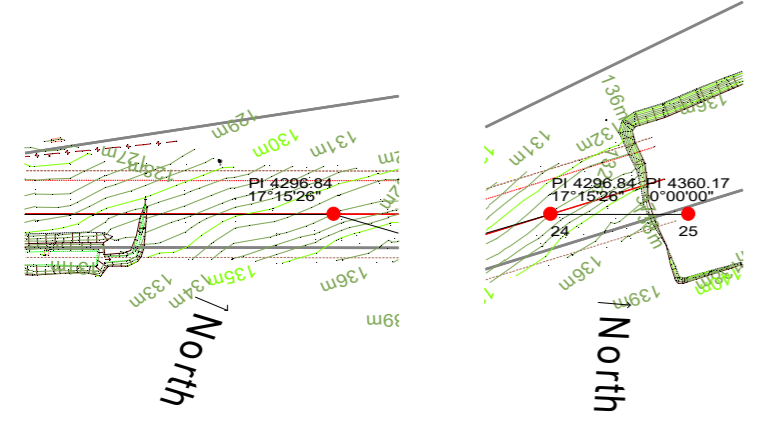
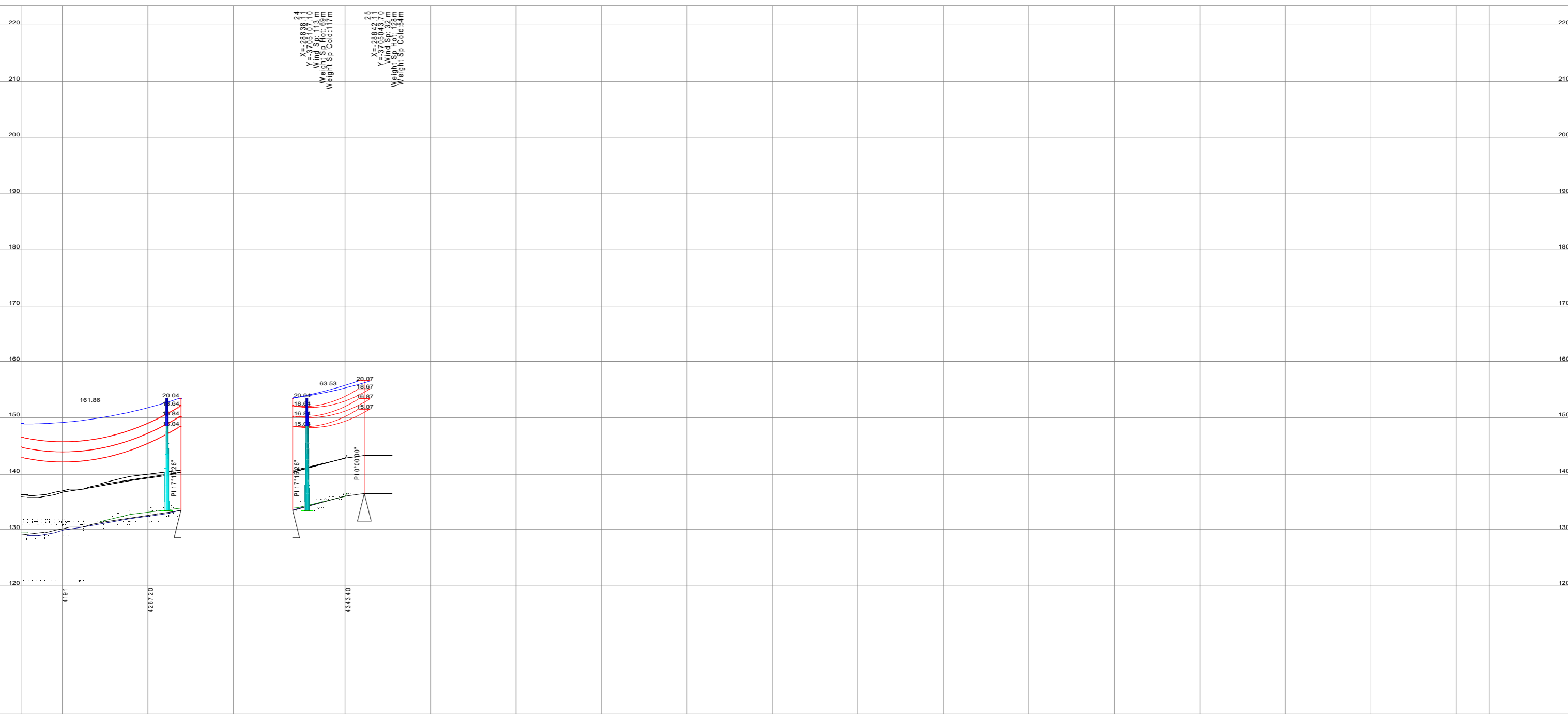
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 LINE PROFILE
 Structure 18 to 23

REV	DATE	DESCRIPTION	BY	CHKD	APPROVED	DRAWN	RG	DATE	11_2023	DRG. No.	REV.
01	08_2022	Prelim Design for DRT	RG	TG	CHECKED	TG	See Scales	4 OF 6	52 139 1826	Set 2 Sheet 1 A1	01



25.0 m Horiz. Scale

5.0 m Vert. Scale

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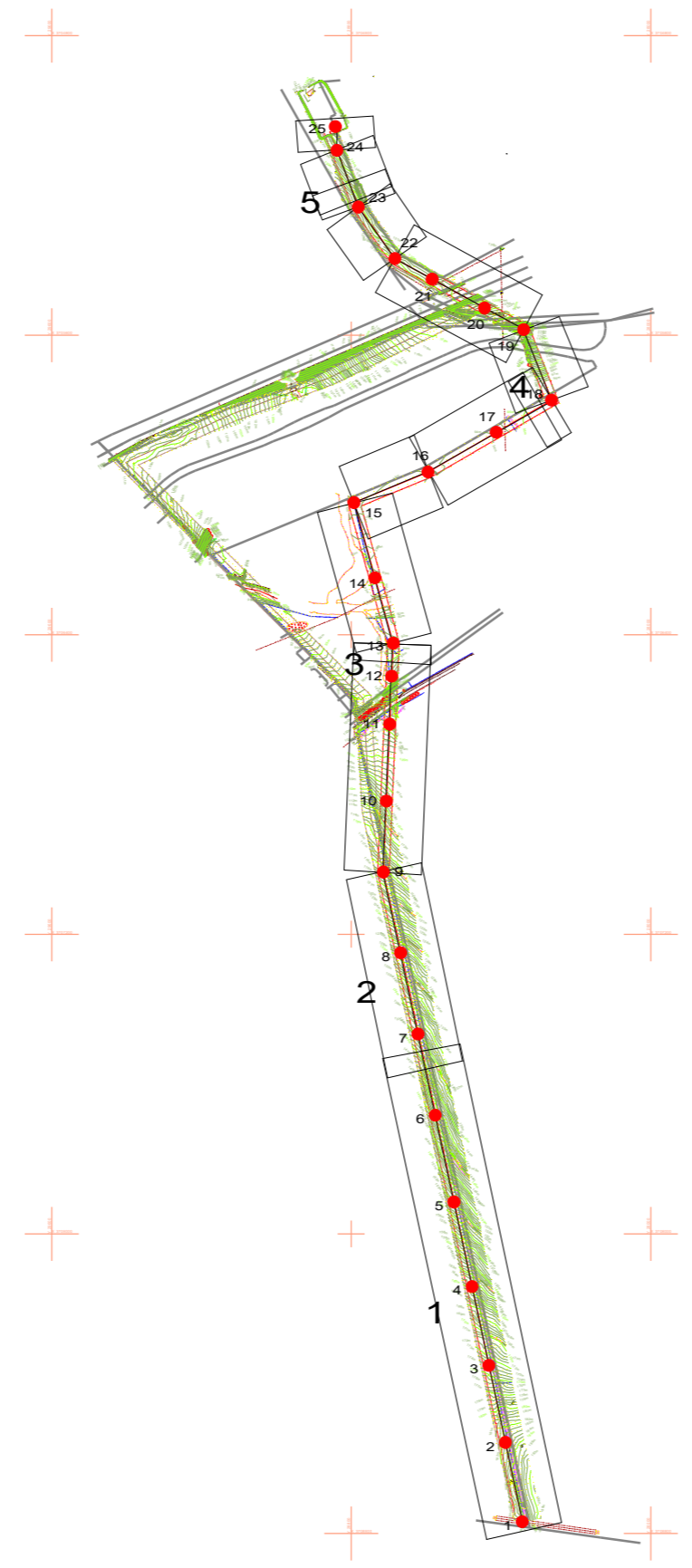
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 Dassenburg - Malmesbury
 TITLE
 LINE PROFILE
 Structure 24 to 25

01	08_2022	Prelim Design for DRT	RG	TG	CHECKED	TG	SCALE	See Scales	DRG. No.	52 139 1826	REV.	01
REV	DATE	DESCRIPTION	BY	CHKD	APPROVED	SHT	5 OF 6			Set 2 Sheet 1 A1		



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CONTRACT		Swartland Municipality Schoonspruit Substation 132kV Loop In / Out Overhead Line Dassenburg - Malmesbury			
TITLE		LINE PROFILE Structure to			
DRAWN	RG	DATE	11_2023	DRG. No.	52 139 1826
CHECKED	TG	SCALE	See Scales	Set 2 Sheet 1 A1	01
REV	DATE	DESCRIPTION	BY	CHKD	APPROVED