

CLIENT LOGO

**INFINERGY**

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**CONDUCTOR DETAILS**

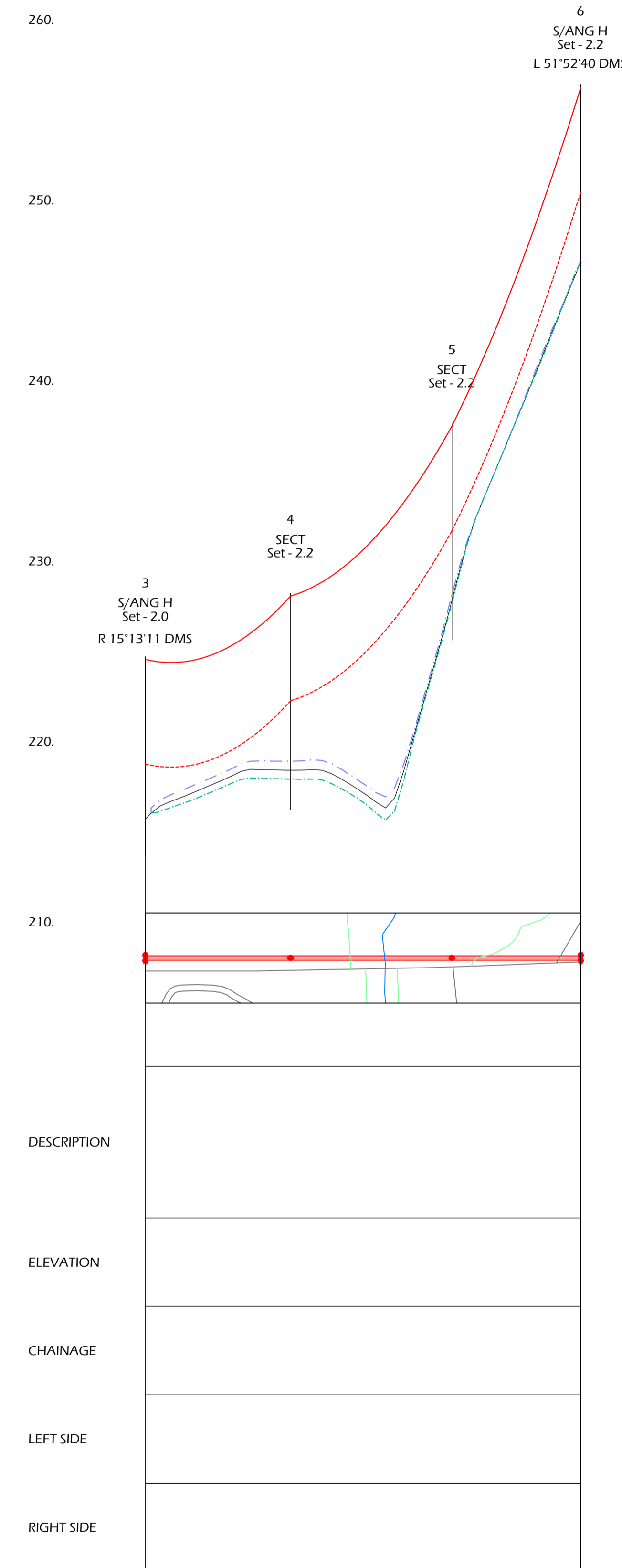
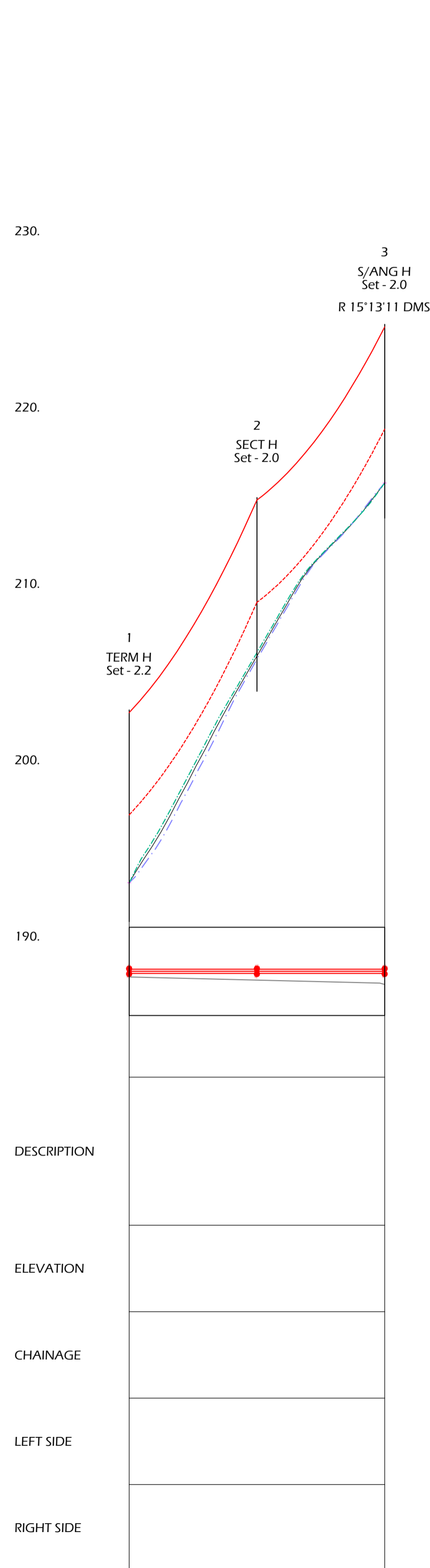
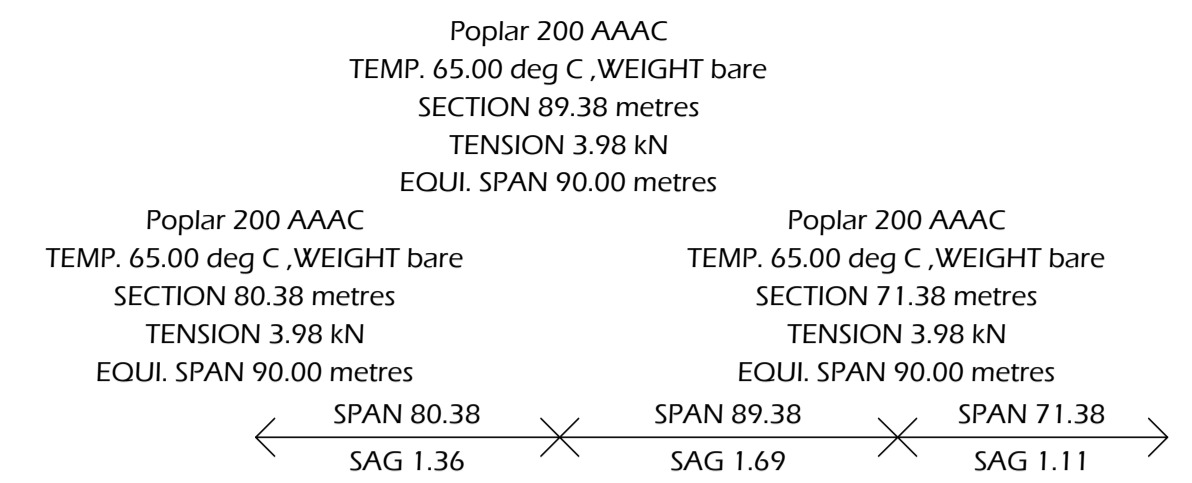
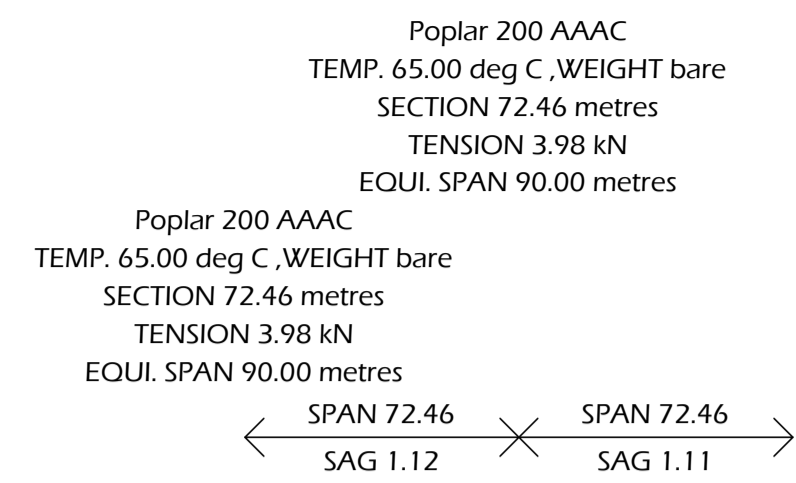
Units:	Metric
Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions:	horizontal
Wt loaded:	2.12393 kg/m
Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
Wt winded:	1.03438 kg/m
Wind pres:	380 N/m <sup>2</sup>
Rad. ice:	9.5 mm
Area:	239.4 sq.mm
Diameter:	20.09 mm
Cold temp:	-5 deg C
UTS:	67.0855 kN
Erection: By temp and tension shift	
Tension:	10 %
Temp:	0 deg C
Design:	
Tension:	1276 kg
Temp:	0 deg C
Weight:	Wt bare initial
initial	
Young's modulus	5700 kg/mm <sup>2</sup>
Coeff. expansion	2.3e-005 /deg C
C1 (sqrt(YA/24))	23.6134 sqt.kN
C2 (YEA)	0.30779 kN/C
final	
Young's modulus	5700 kg/mm <sup>2</sup>
Coeff. expansion	2.3e-005 /deg C
C1 (sqrt(YA/24))	23.6134 sqt.kN
C2 (YEA)	0.30779 kN/C
Erection temps	-10,0,10,20,30 deg C

**CLEARANCE CURVE & TEMPERATURE**  
5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

STATUS	REVISION	SCALE
<b>PRELIMINARY</b>	<b>A</b>	V1:200 H1:2000 VP Locked - YES
DRAWN	CHECKED	APPROVED
		DATE PLOTTED
		01.11.2021

LOCATION  
**LOCHLUICHART**

TITLE  
**INDICATIVE LINE PROFILES**  
**POLES 1 - 6**



— CONDUCTOR  
- - - CLEARANCE CURVE  
- - - SIDE SLOPE RIGHT  
- - - SIDE SLOPE LEFT

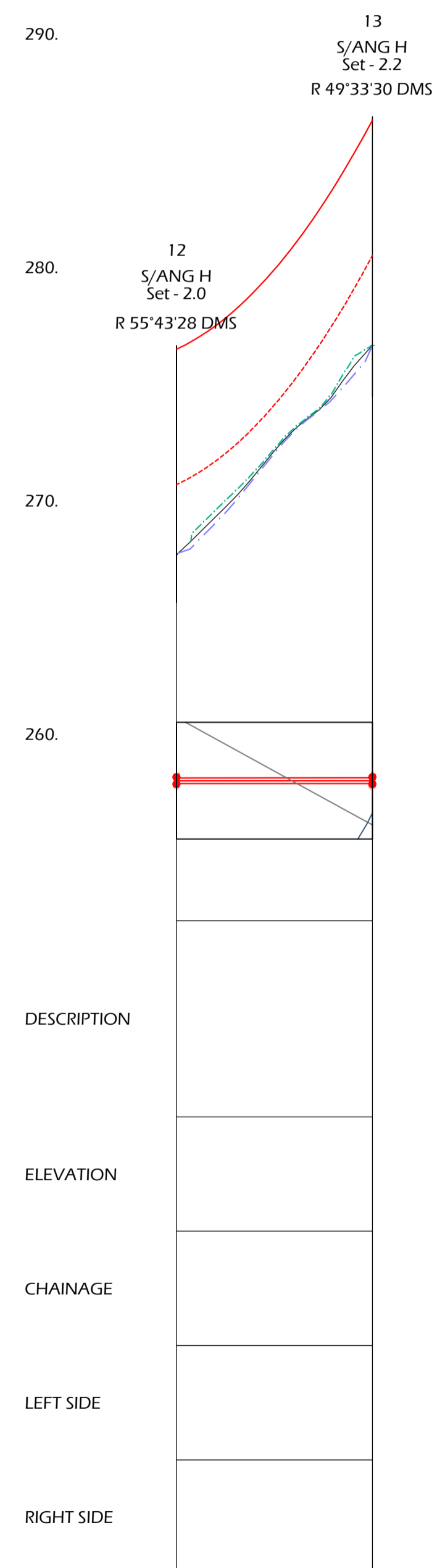
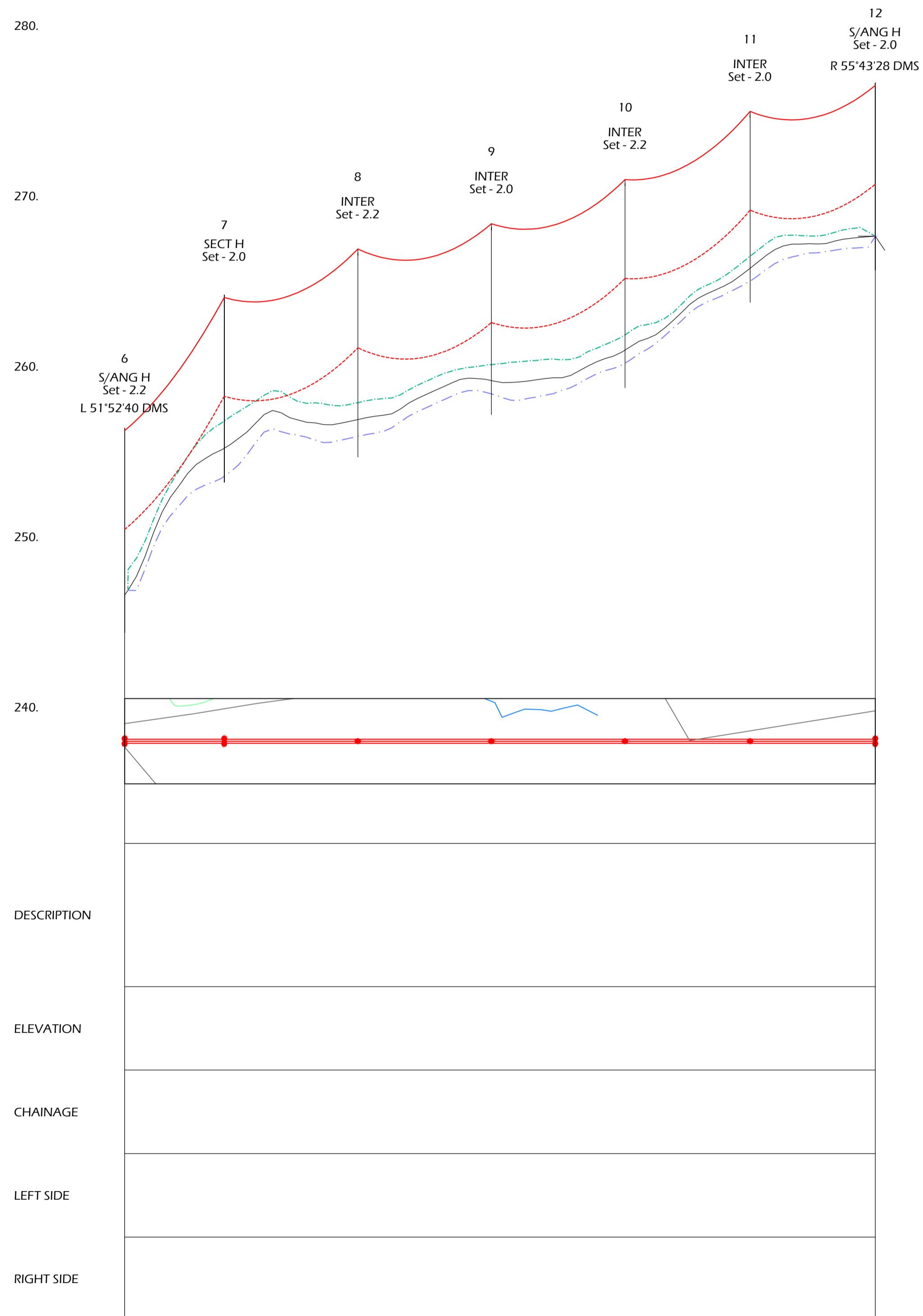
Poplar 200 AAAC  
TEMP. 65.00 deg C ,WEIGHT bare  
SECTION 382.30 metres  
TENSION 3.98 kN  
EQUI. SPAN 90.00 metres

Poplar 200 AAAC  
TEMP. 65.00 deg C ,WEIGHT bare  
SECTION 58.46 metres  
TENSION 3.98 kN  
EQUI. SPAN 90.00 metres

← SPAN 58.46 × SPAN 78.46 × SPAN 78.46 × SPAN 78.46 × SPAN 73.46 × SPAN 73.46 →  
SAG 0.72 SAG 1.29 SAG 1.29 SAG 1.29 SAG 1.14 SAG 1.13

Poplar 200 AAAC  
TEMP. 65.00 deg C ,WEIGHT bare  
SECTION 83.96 metres  
TENSION 3.98 kN  
EQUI. SPAN 90.00 metres

← SPAN 83.96 →  
SAG 1.49



— CONDUCTOR  
- - - CLEARANCE CURVE  
- - - SIDE SLOPE RIGHT  
- - - SIDE SLOPE LEFT



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CONDUCTOR DETAILS

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Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions	horizontal
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Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
Wt winded:	1.03438 kg/m
Wind pres:	380 N/m <sup>2</sup>
Rad. ice:	9.5 mm
Area:	239.4 sq.mm
Diameter:	20.09 mm
Cold temp:	-5 deg C
UTS:	67.0855 kN
Erection: By temp and tension shift	
Tension:	10 %
Temp:	0 deg C
Design:	
Tension:	1276 kg
Temp:	0 deg C
Weight:	Wt bare initial
initial	
Young's modulus	5700 kg/mm <sup>2</sup>
Coeff. expansion	2.3e-005 /deg C
C1 (sqrt(YA/24))	23.6134 sqt.kN
C2 (YEA)	0.30779 kN/C
final	
Young's modulus	5700 kg/mm <sup>2</sup>
Coeff. expansion	2.3e-005 /deg C
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Erection temps	-10,0,10,20,30 deg C

CLEARANCE CURVE & TEMPERATURE

5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

STATUS	REVISION	SCALE
<b>PRELIMINARY</b>	<b>A</b>	V1:200 H1:2000
DRAWN	CHECKED	APPROVED
PWJ	EAJ	PWJ
DATE PLOTTED	01.11.2021	

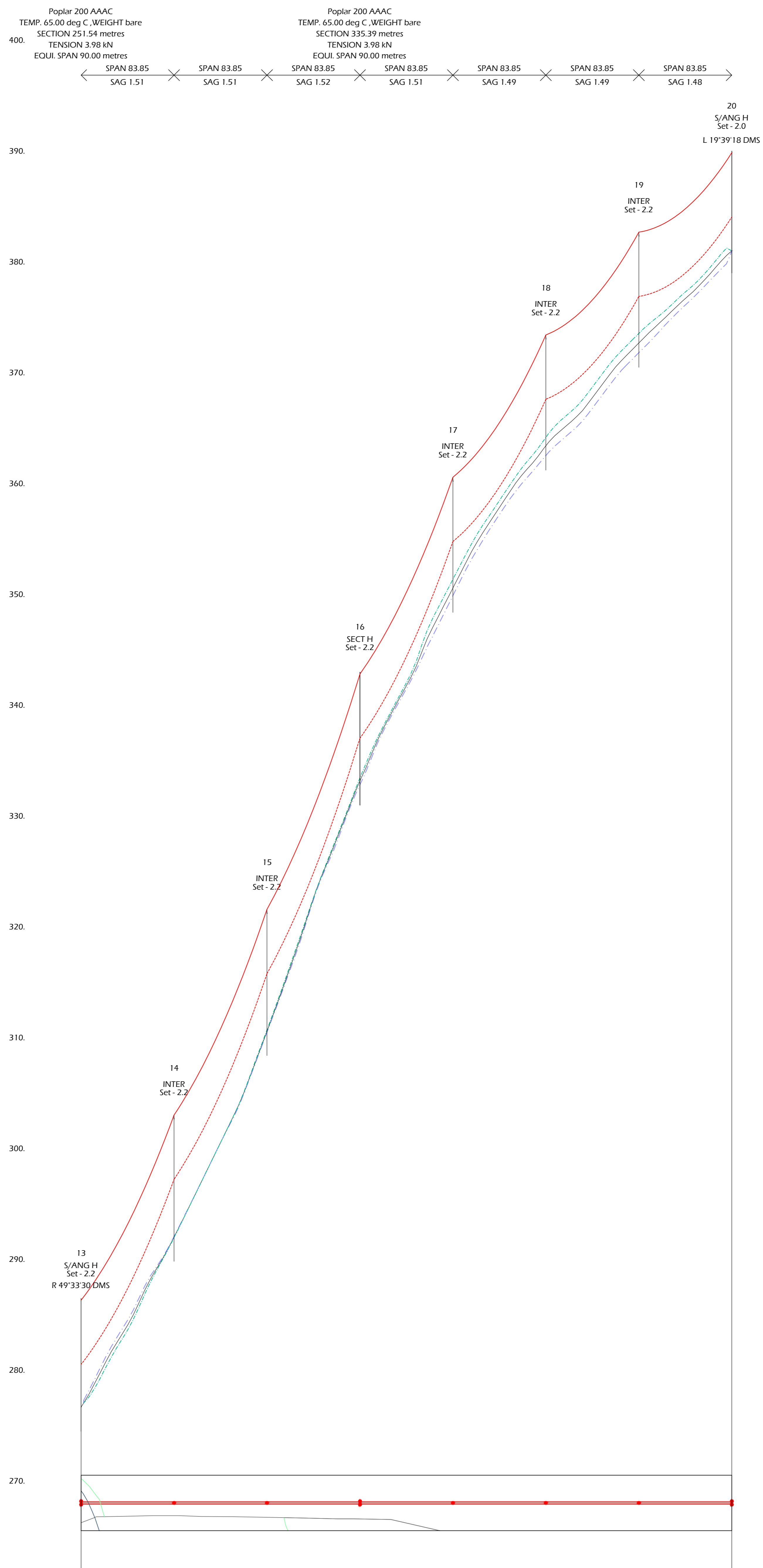
LOCATION

LOCHLUICHART

TITLE

INDICATIVE LINE PROFILES

POLES 6 - 13



**LINE DESIGN TECHNOLOGY**

Unit E  
Coppell Industrial Est  
14111 E. Highway 111  
Frisco, TX 75034  
Phone: 0845 6182203  
Fax: 0750 3914255  
Email: mail@line-design-technology.com

ISO 9001:2015 REGISTERED

Constructionline Member

RSPA Member

CLIENT LOGO

**INFINERGY**

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**CONDUCTOR DETAILS**

Units:	Metric	Design:	Poplar 200
Conductor:	AAAC	Tension:	1276 kg
Mnemonic:	POP1	Temp:	0 deg C
Type:	AAAC [2]	Weight:	Wt bare initial
Basis tensions:	horizontal	initial	Young's modulus 5700 kg/mm <sup>2</sup>
Wt loaded:	2.12393 kg/m	Coef. expansion:	2.3e-005 /deg C
Wt bare:	0.68116 kg/m	C1 (sqrt(YA/24)):	23.6134 sqt/kN
Wt ice:	1.48886 kg/m	C2 (YEA):	0.30779 kN/C
Wind pres:	380 N/m <sup>2</sup>	final	Young's modulus 5700 kg/mm <sup>2</sup>
Radi. ice:	9.5 mm	Coef. expansion:	2.3e-005 /deg C
Area:	239.4 sq mm	C1 (sqrt(YA/24)):	23.6134 sqt/kN
Diameter:	20.09 mm	C2 (YEA):	0.30779 kN/C
Cold temp:	-5 deg C	Erection temps:	-10.0,10.0,20.0 deg C
UTS:	67.0855 kN		
Erection:	By temp and tension shift		
Tension:	10 %		
Temp:	0 deg C		

**CLEARANCE CURVE & TEMPERATURE**

5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

DRAWN	CHECKED	APPROVED
SCALE	REVISION	DATE PRINTED
VP1 - V1:200 H1:2000	<b>A</b>	01.11.2021
VP LOCKED NO		

**TITLE**

INDICATIVE LINE PROFILES  
POLES 13 - 20

**LOCATION**

LOCHLUICHART

**STATUS**

**PRELIMINARY**

**DRAWING NO.**

LDT-402-LW-PRO-001

**PAGE**

3 of 10

**A1**



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**CONDUCTOR DETAILS**

Units:	Metric
Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions:	horizontal
Wt loaded:	2.12393 kg/m
Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
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Diameter:	20.09 mm
Cold temp:	-5 deg C
UTS:	67.0855 kN
Erection:	By temp and tension shift
Tension:	10 %
Temp:	0 deg C
Design:	
Tension:	1276 kg
Temp:	0 deg C
Weight:	Wt bare initial
initial	
Young's modulus:	5700 kg/mm <sup>2</sup>
Coeff. expansion:	2.3e-005 /deg C
C1 (sqrt(YA/24)):	23.6134 sqt.kN
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C1 (sqrt(YA/24)):	23.6134 sqt.kN
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Erection temps:	-10,0,10,20,30 deg C

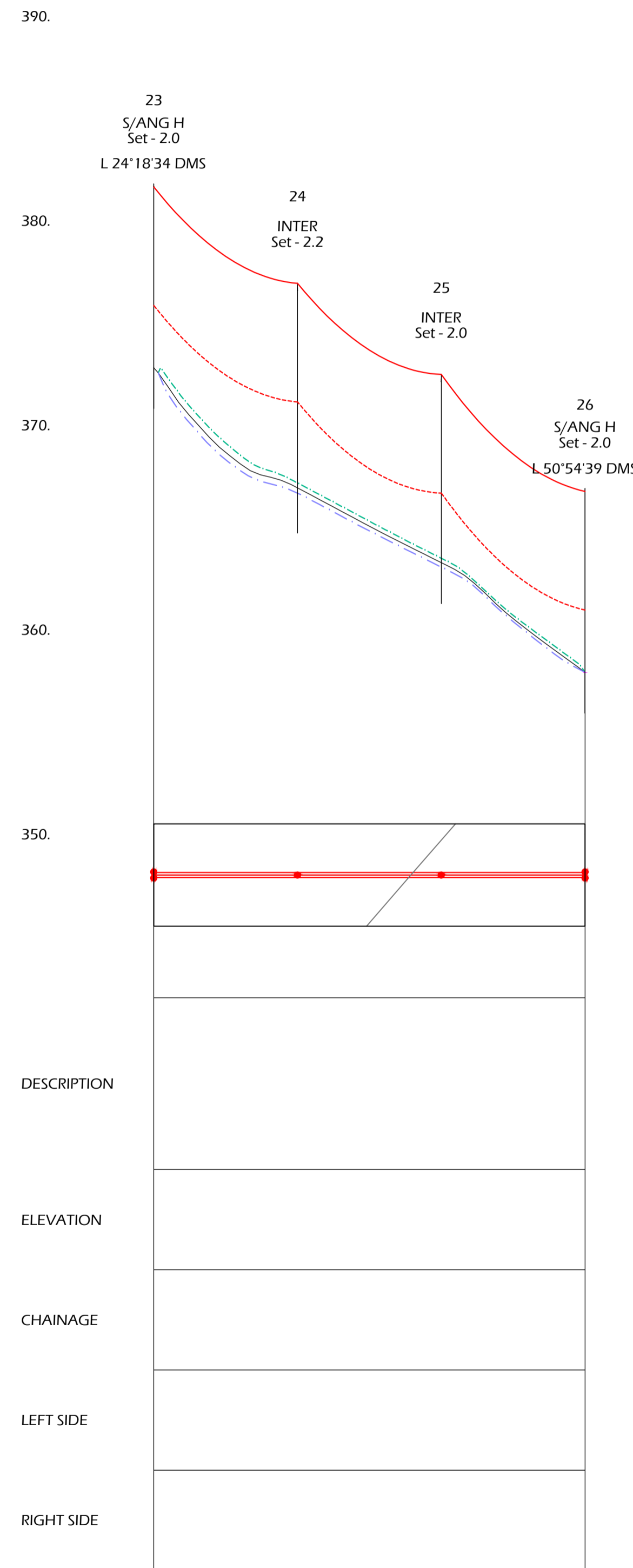
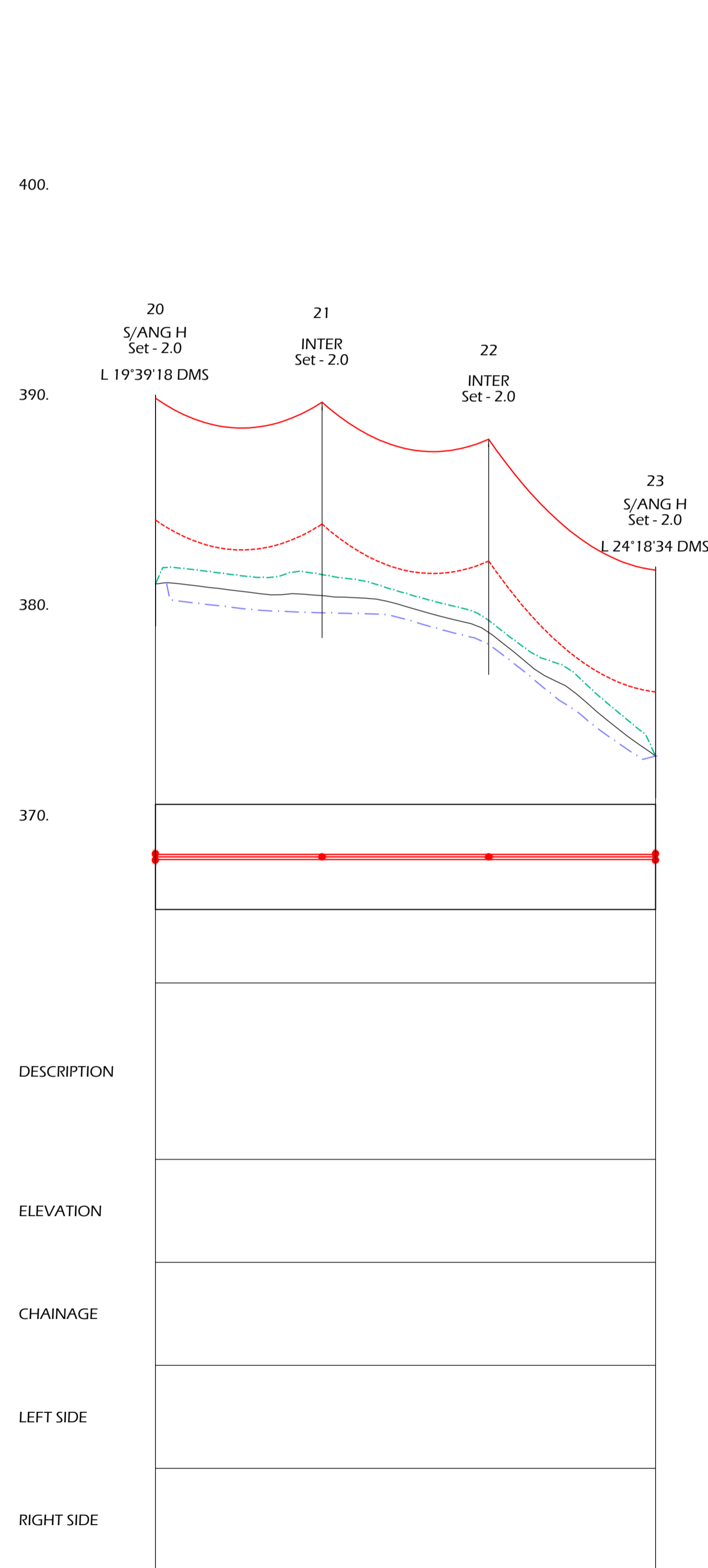
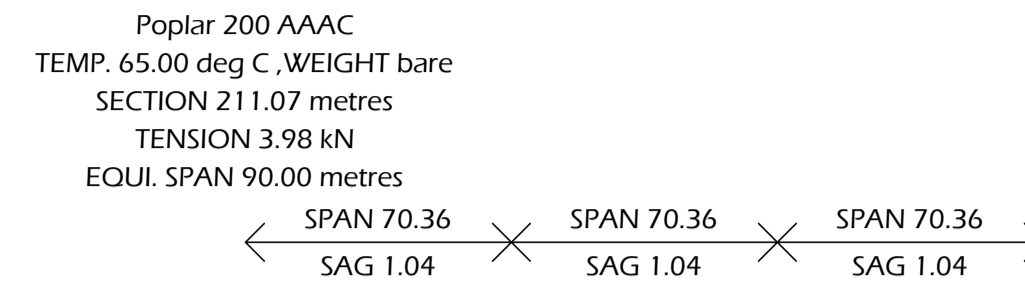
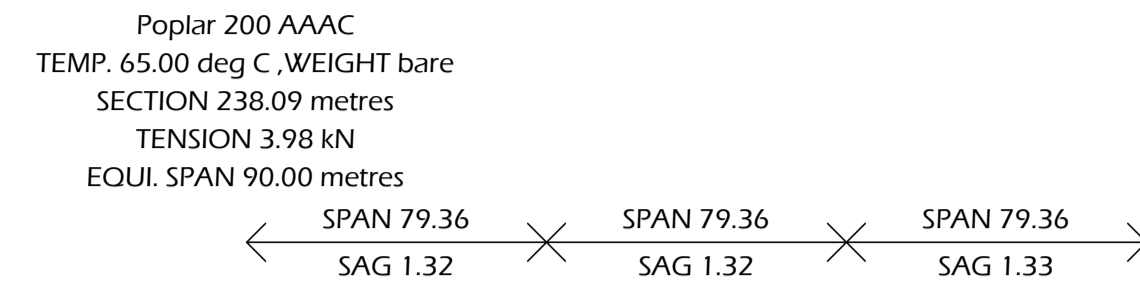
**CLEARANCE CURVE & TEMPERATURE**

5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

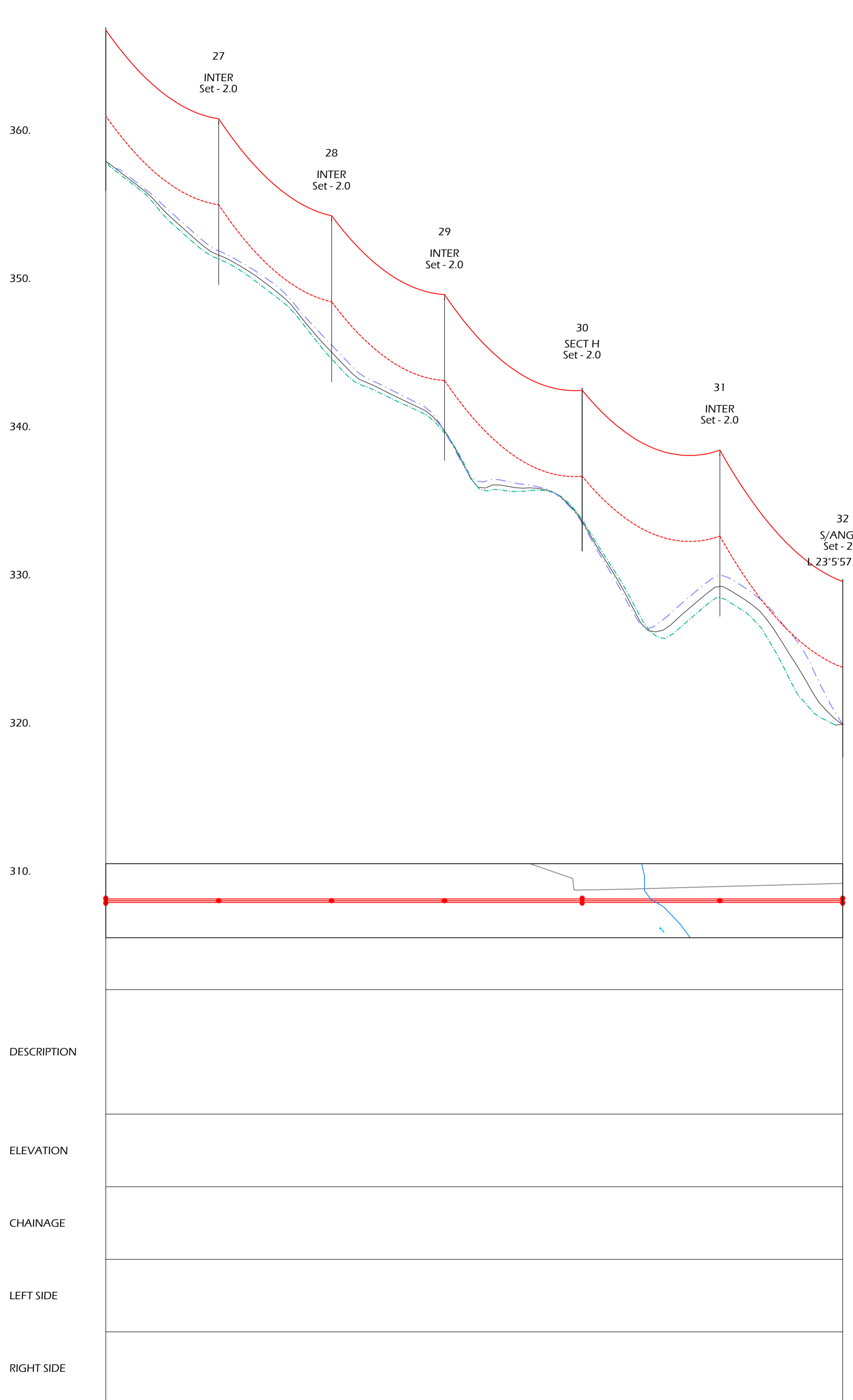
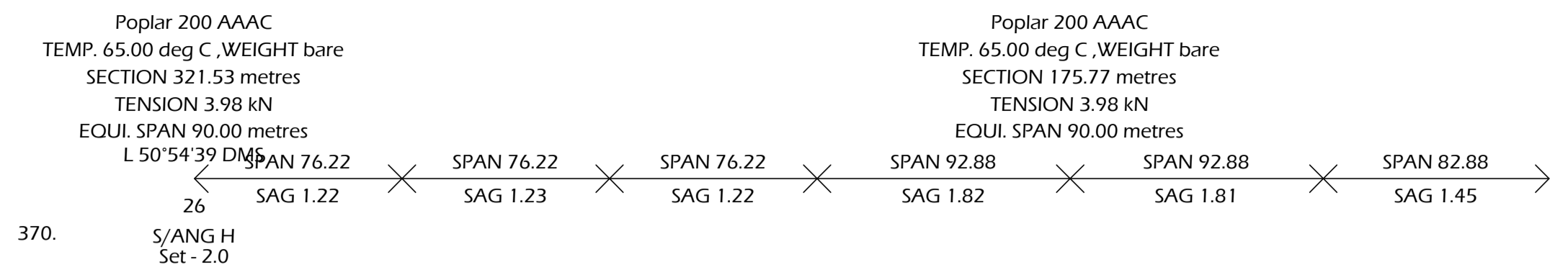
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<b>PRELIMINARY</b>	<b>A</b>	V1:200 H1:2000 VP Locked - YES
DRAWN	CHECKED	APPROVED
PWJ	EAJ	PWJ
		DATE PLOTTED
		01.11.2021

LOCATION: **LOCHLUICHART**

TITLE: **INDICATIVE LINE PROFILES**  
**POLES 20 - 26**



— CONDUCTOR  
- - - CLEARANCE CURVE  
- - - SIDE SLOPE RIGHT  
- - - SIDE SLOPE LEFT



- CONDUCTOR
- - - CLEARANCE CURVE
- . - . SIDE SLOPE RIGHT
- . - . SIDE SLOPE LEFT



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**CONDUCTOR DETAILS**

Units:	Metric
Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions:	horizontal
Wt loaded:	2.12393 kg/m
Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
Wt winded:	1.03438 kg/m
Wind pres:	380 N/m <sup>2</sup>
Rad. ice:	9.5 mm
Area:	239.4 sq.mm
Diameter:	20.09 mm
Cold temp:	-5 deg C
UTS:	67.0855 kN
Erection:	By temp and tension shift
Tension:	10 %
Temp:	0 deg C
Design:	
Tension:	1276 kg
Temp:	0 deg C
Weight:	Wt bare initial
initial	
Young's modulus:	5700 kg/mm <sup>2</sup>
Coeff. expansion:	2.3e-005 /deg C
C1 (sqrt(YA/24)):	23.6134 sqt.kN
C2 (YEA):	0.30779 kN/C
final	
Young's modulus:	5700 kg/mm <sup>2</sup>
Coeff. expansion:	2.3e-005 /deg C
C1 (sqrt(YA/24)):	23.6134 sqt.kN
C2 (YEA):	0.30779 kN/C
Erection temps:	-10,0,10,20,30 deg C

**CLEARANCE CURVE & TEMPERATURE**

5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

STATUS <b>PRELIMINARY</b>		REVISION <b>A</b>	SCALE V1:200 H1:2000 VP Locked - YES
DRAWN <b>PWJ</b>	CHECKED <b>EAJ</b>	APPROVED <b>PWJ</b>	DATE PLOTTED 01.11.2021

LOCATION  
**LOCHLUICHART**

TITLE  
**INDICATIVE LINE PROFILES**  
**POLES 26 - 32**

W:\01\_INFINERGY\02\_LOCHLUICHART\03\_NO\_PAN\EXTENSION\01\_CAD\A2\LW\PRO\001.DWG



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**CONDUCTOR DETAILS**

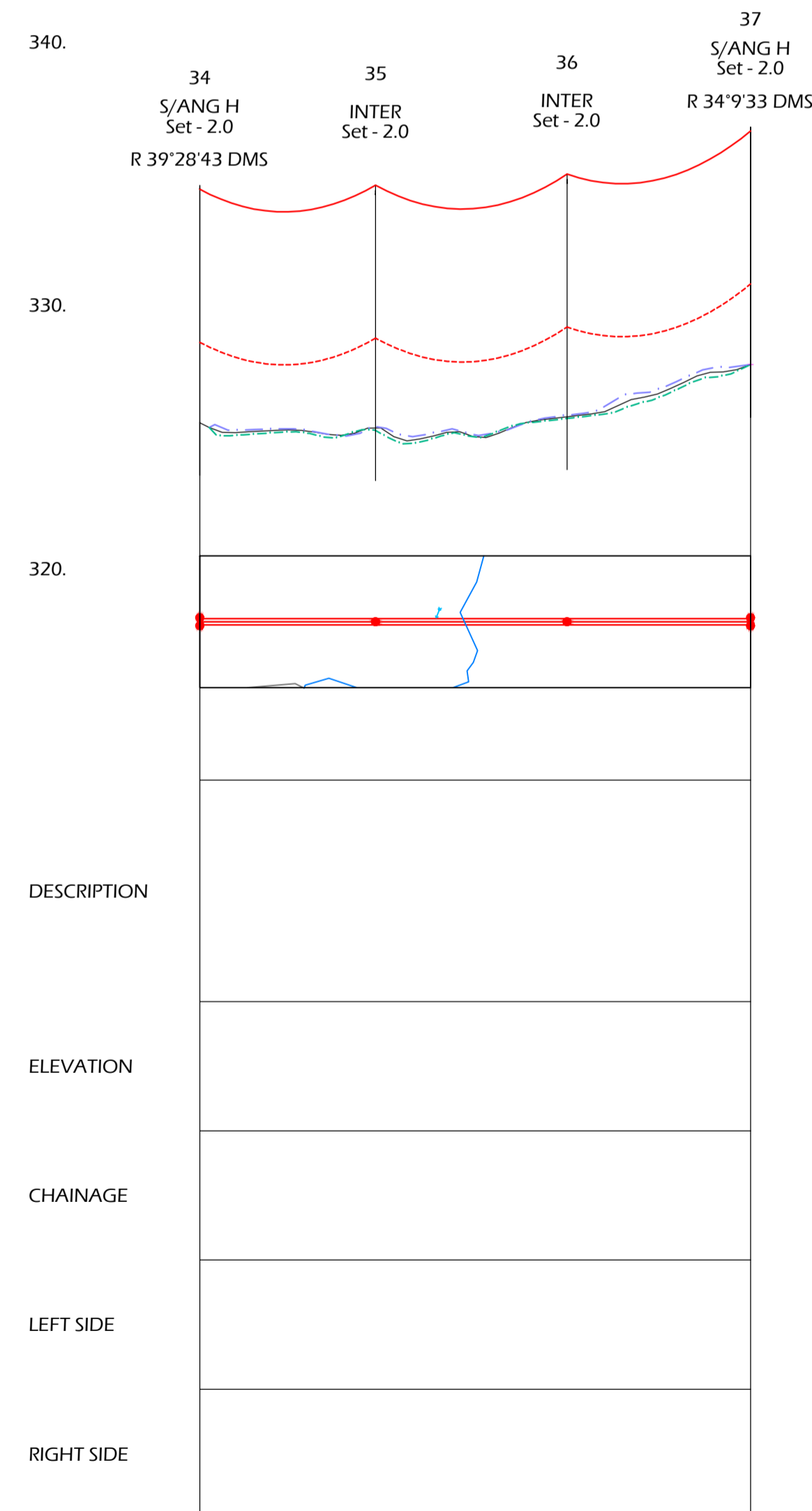
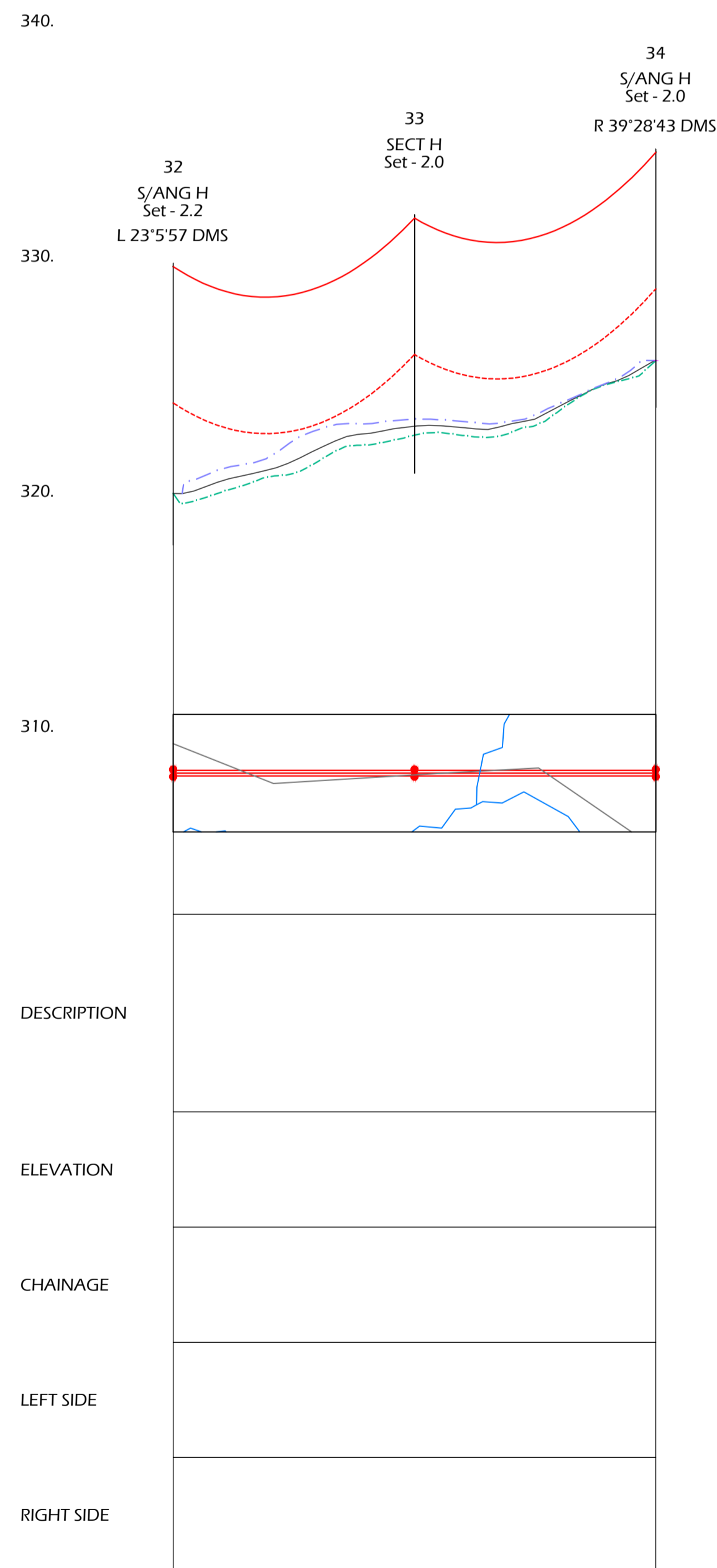
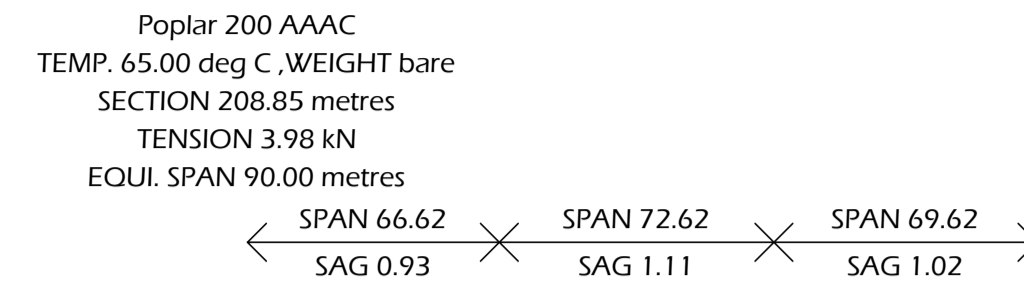
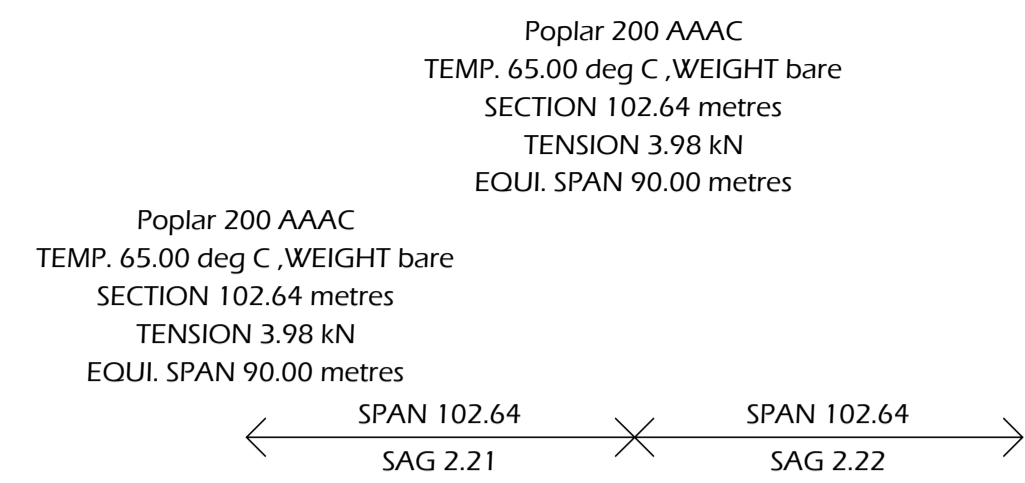
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Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
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Basis tensions:	horizontal
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**CLEARANCE CURVE & TEMPERATURE**  
5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

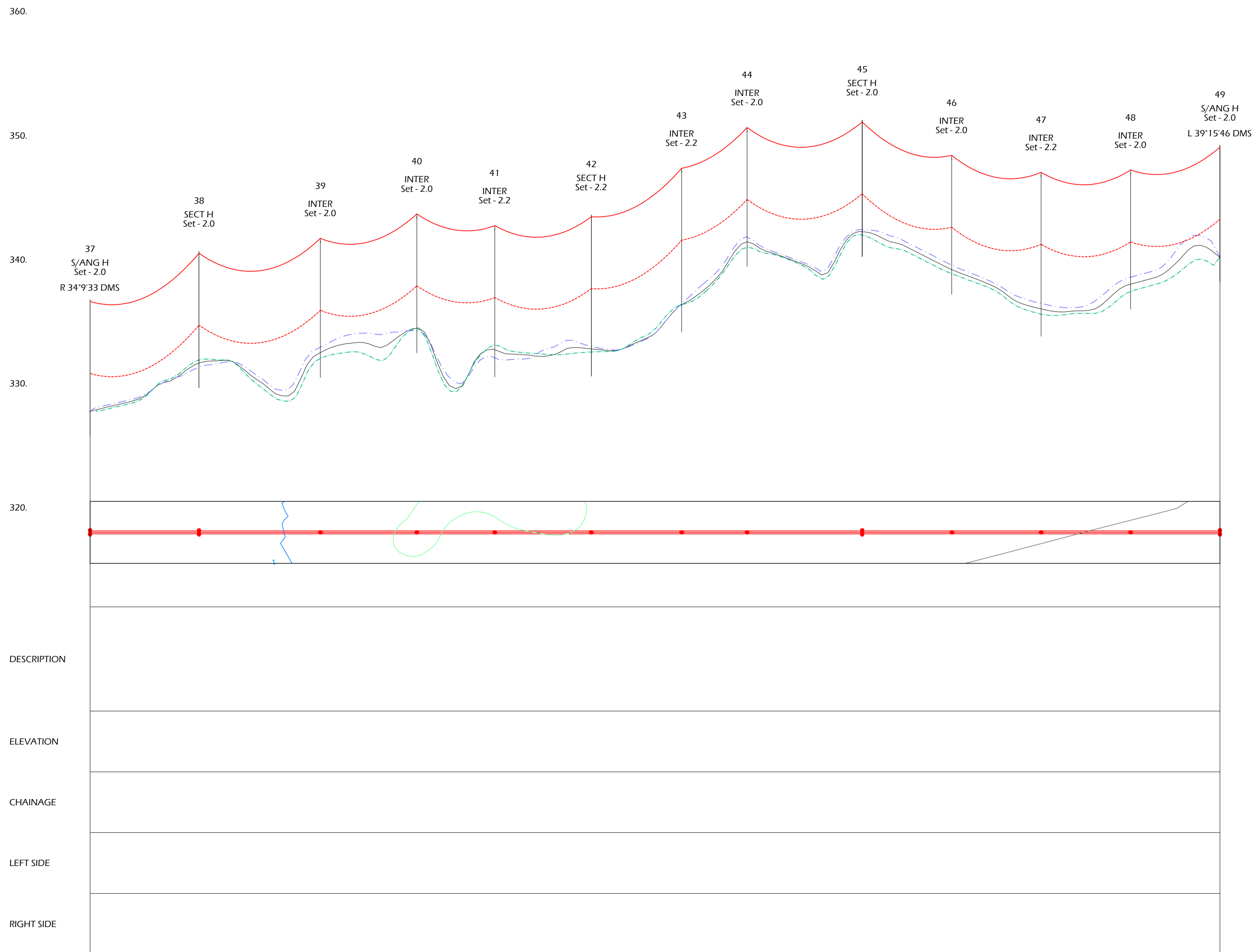
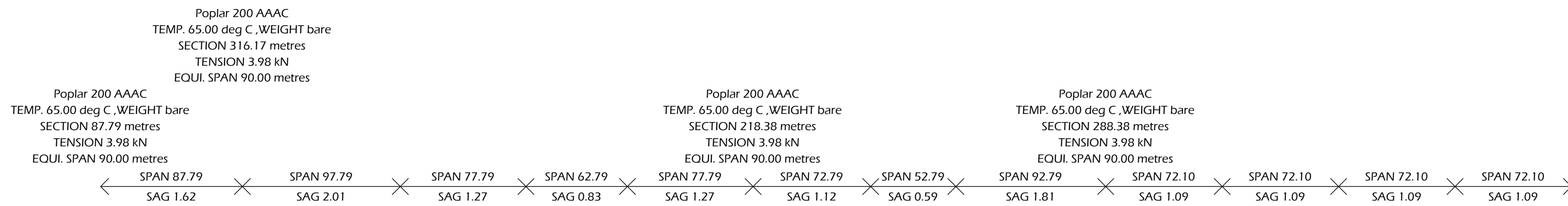
STATUS <b>PRELIMINARY</b>		REVISION <b>A</b>	SCALE V1:200 H1:2000 VP Locked - YES
DRAWN PWJ	CHECKED EAJ	APPROVED PWJ	DATE PLOTTED 01.11.2021

LOCATION  
**LOCHLUICHART**

TITLE  
**INDICATIVE LINE PROFILES**  
**POLES 32 - 37**



— CONDUCTOR  
- - - CLEARANCE CURVE  
- - - SIDE SLOPE RIGHT  
- - - SIDE SLOPE LEFT



DESCRIPTION  
ELEVATION  
CHAINAGE  
LEFT SIDE  
RIGHT SIDE

- CONDUCTOR
- ... CLEARANCE CURVE
- - - SIDE SLOPE RIGHT
- - - SIDE SLOPE LEFT



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**CONDUCTOR DETAILS**

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Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions:	horizontal
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Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
Wt winded:	1.03438 kg/m
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Cold temp:	-5 deg C
UTS:	67.0855 kN
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Temp:	0 deg C
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Tension:	1276 kg
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Erection temps	-10,0,10,20,30 deg C

**CLEARANCE CURVE & TEMPERATURE**  
5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

STATUS	REVISION	SCALE
<b>PRELIMINARY</b>	<b>A</b>	V1:200 H1:2000 VP Locked - YES
DRAWN	CHECKED	APPROVED
PWJ	EAJ	PWJ
		DATE PLOTTED
		01.11.2021

LOCATION  
**LOCHLUICHART**

TITLE  
**INDICATIVE LINE PROFILES**  
**POLES 37 - 49**

W:\01\_INFENERGY\02\_LOCHLUICHART\03\_PAN\04\_EXTENSION\01\_CAD\02\_LW\PRO\001.DWG



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**CONDUCTOR DETAILS**

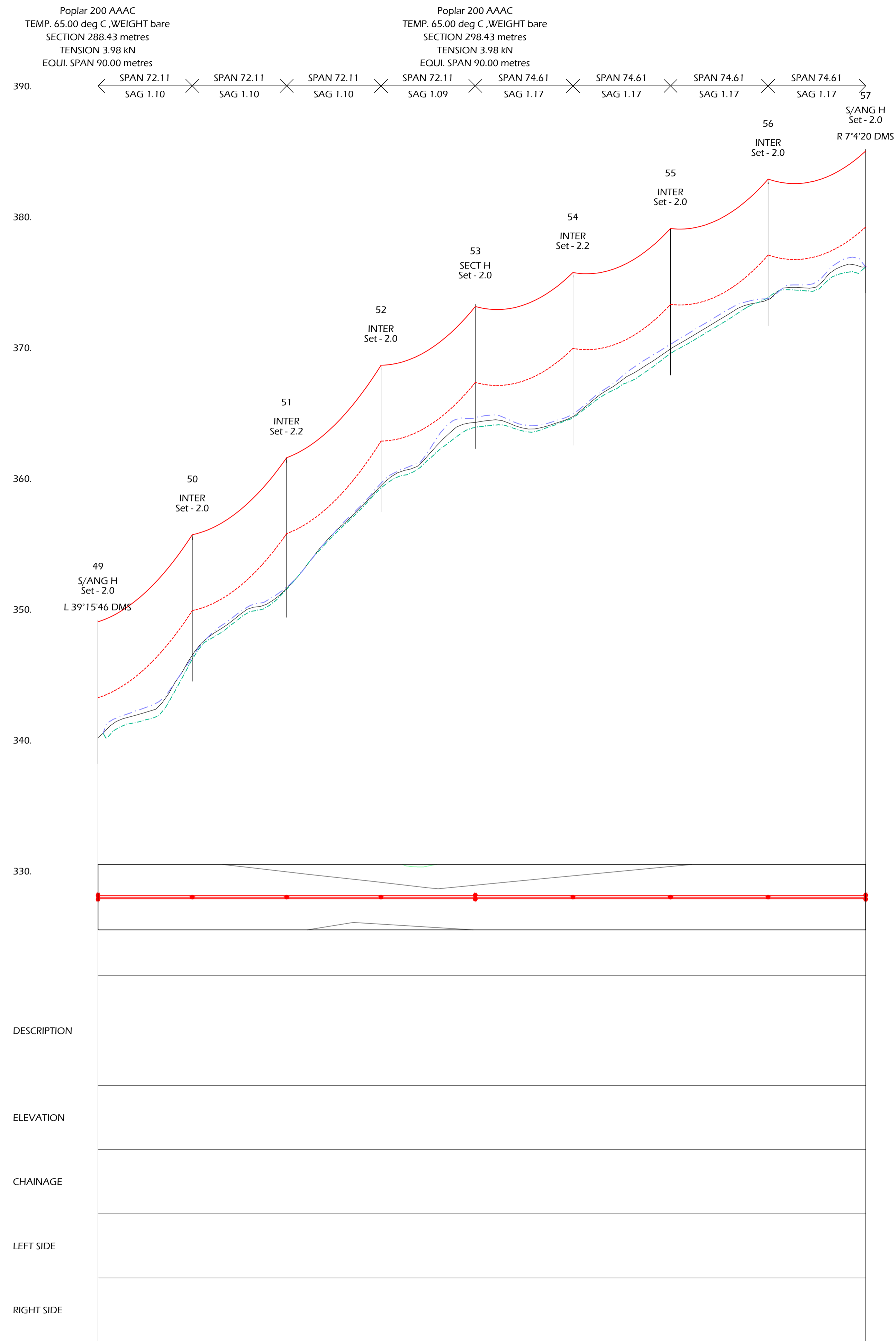
Units:	Metric
Conductor:	Poplar 200 AAAC
Mnemonic:	POP1
Type:	AAAC (2)
Basis tensions:	horizontal
Wt loaded:	2.12393 kg/m
Wt bare:	0.68116 kg/m
Wt iced:	1.48886 kg/m
Wt winded:	1.03438 kg/m
Wind pres:	380 N/m <sup>2</sup>
Rad. ice:	9.5 mm
Area:	239.4 sq.mm
Diameter:	20.09 mm
Cold temp:	-5 deg C
UTS:	67.0855 kN
Erection: By temp and tension shift	
Tension:	10 %
Temp:	0 deg C
Design:	
Tension:	1276 kg
Temp:	0 deg C
Weight:	Wt bare initial
initial	
Young's modulus	5700 kg/mm <sup>2</sup>
Coeff. expansion	2.3e-005 /deg C
C1 (sqrt(YA/24))	23.6134 sqt.kN
C2 (YEA)	0.30779 kN/C
final	
Young's modulus	5700 kg/mm <sup>2</sup>
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Erection temps	-10,0,10,20,30 deg C

**CLEARANCE CURVE & TEMPERATURE**  
5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

<b>STATUS</b> <b>PRELIMINARY</b>		<b>REVISION</b> <b>A</b>		<b>SCALE</b> V1:200 H1:2000 VP Locked - YES	
<b>DRAWN</b> PWJ	<b>CHECKED</b> EAJ	<b>APPROVED</b> PWJ	<b>DATE PLOTTED</b> 01.11.2021		

**LOCATION**  
LOCHLUICHART

**TITLE**  
INDICATIVE LINE PROFILES  
POLES 49 - 57



— CONDUCTOR  
- - - CLEARANCE CURVE  
... SIDE SLOPE RIGHT  
... SIDE SLOPE LEFT

W:\01\_INFENERGY\02\_LOCHLUICHART\03\_PAN\_01\_EXTENSION\01\_CAD\A1\LW\PRO-001.DWG





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**CLEARANCE CURVE & TEMPERATURE**

5.8m @ 65°C  
MAXIMUM DESIGN TEMPERATURE

<b>STATUS</b>		<b>REVISION</b>	<b>SCALE</b>
<b>PRELIMINARY</b>		<b>A</b>	V1:200 H1:2000 VP Locked - YES
<b>DRAWN</b>	<b>CHECKED</b>	<b>APPROVED</b>	<b>DATE PLOTTED</b>
PWJ	EAJ	PWJ	01.11.2021

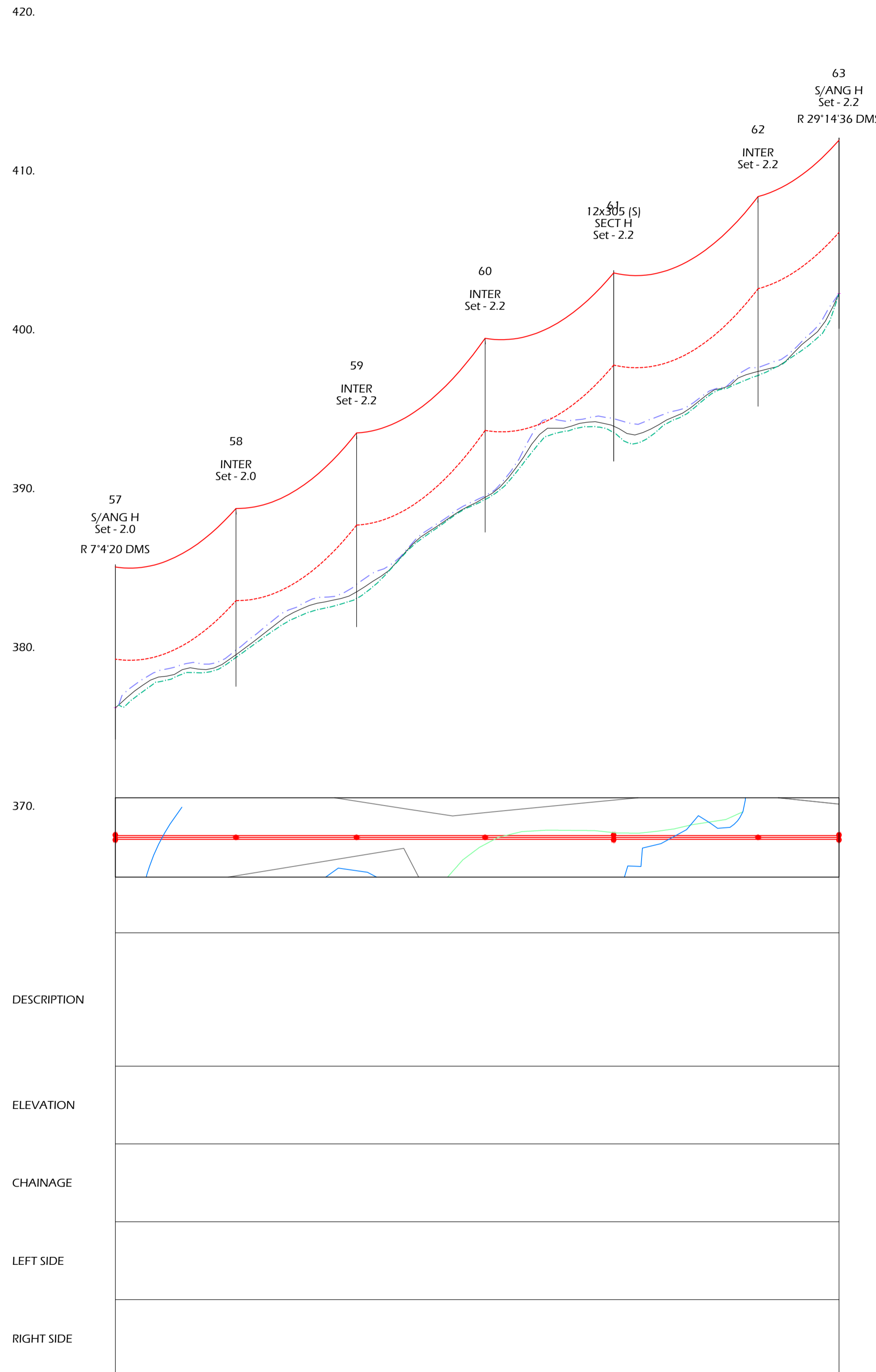
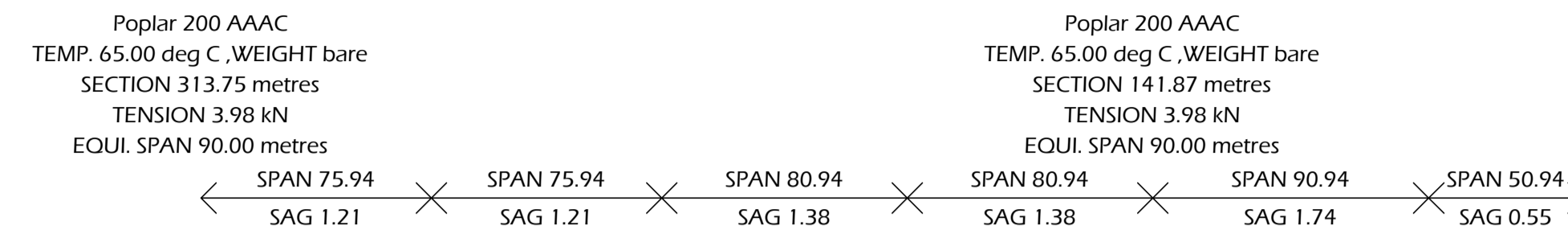
**LOCATION**

LOCHLUICHART

**TITLE**

INDICATIVE LINE PROFILES

POLES 57 - 63



DESCRIPTION

ELEVATION

CHAINAGE

LEFT SIDE

RIGHT SIDE

- CONDUCTOR
- - - CLEARANCE CURVE
- - - SIDE SLOPE RIGHT
- - - SIDE SLOPE LEFT



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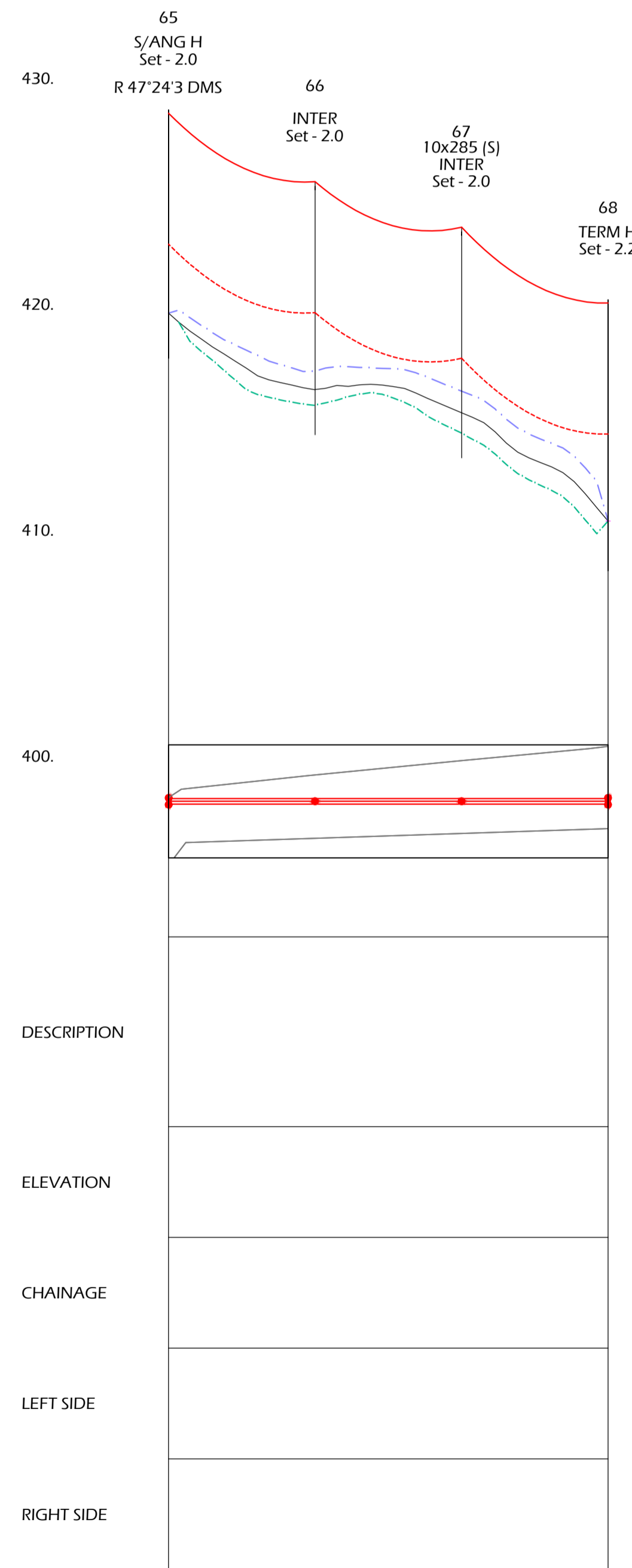
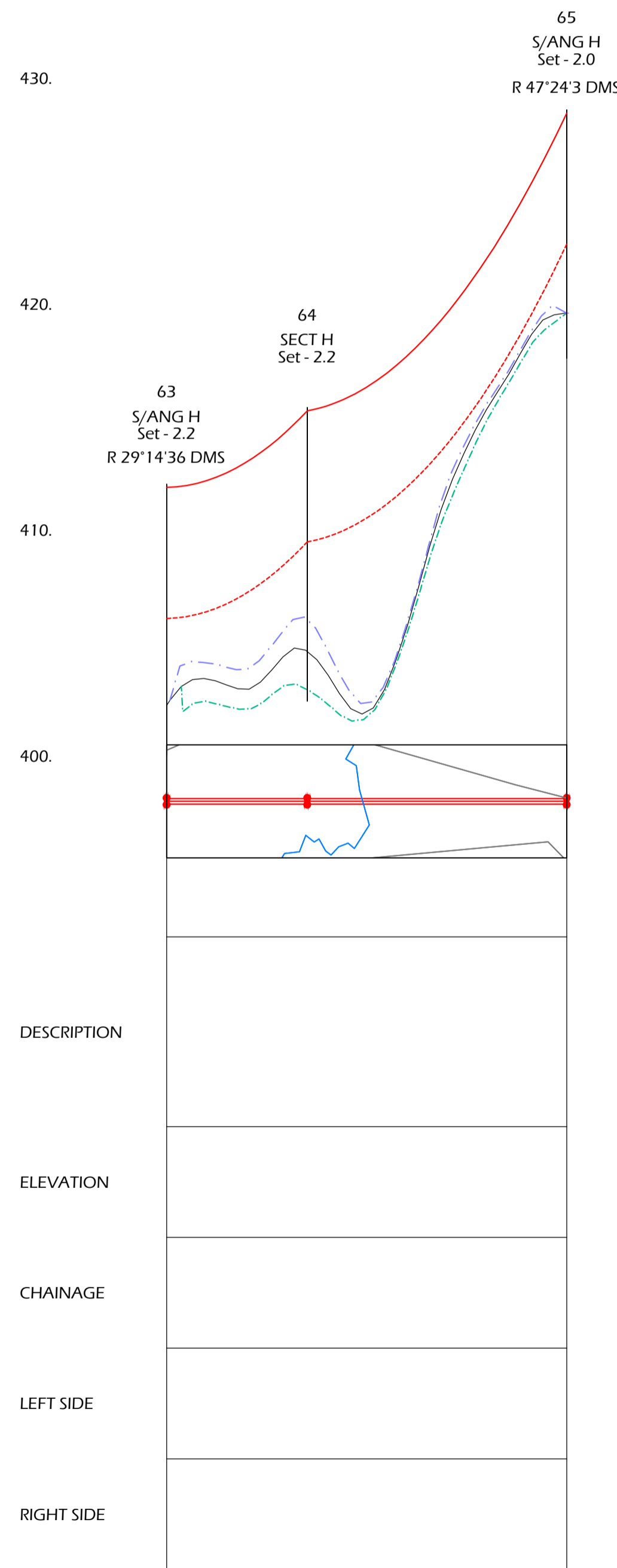
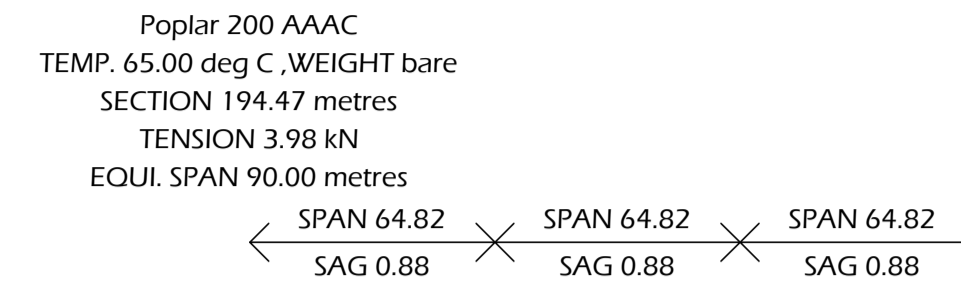
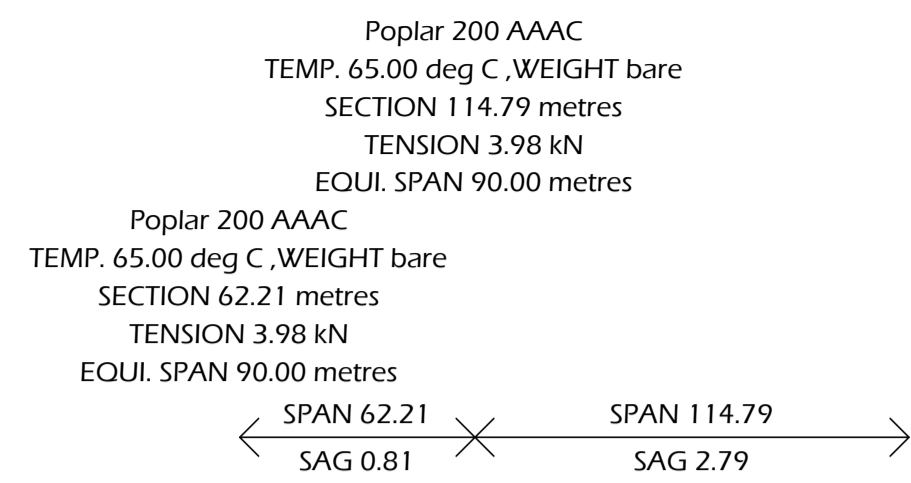
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**CLEARANCE CURVE & TEMPERATURE**  
5.8m @ 65°C  
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DRAWN	CHECKED	APPROVED
PWJ	EAJ	PWJ
		DATE PLOTTED
		01.11.2021

LOCATION  
**LOCHLUICHART**

TITLE  
**INDICATIVE LINE PROFILES**  
**POLES 63 - 68**



— CONDUCTOR  
- - - CLEARANCE CURVE  
- - - SIDE SLOPE RIGHT  
- - - SIDE SLOPE LEFT