



LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

P01	First Fix Appraisal				
	JSE	RO	JG	GW	GH
	10/04/18	18/04/18	18/04/18	18/04/18	18/04/18

Revision	Revision details				
	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer
 Precision House
 McNeil Drive
 Motherwell
 ML1 4UR



Client
 58 Port Dundas Road
 Glasgow
 G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
OLN - Engineering Appraisal

Project Ref. No. 250002-92	Stage Stage 2	Scale : 1:20,000	@A1
		Dimensions :	

Drawing Number Project	Originator	Volume
A96PEA -AMAR - HGN -		
CB	-DR-CH-100001	
Location	Type	Role
		Number

Suitability S2	Suitability Description For Information	Revision P01.01
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0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	

Rules

Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities score + Constructability Score
 (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Chainage	Start Chainage	End Chainage	Alignment Length	Alignment					Geotechnics		Structures		Flooding and Drainage		Utilities		Constructability		Score	Adjusted Total	Comments	
				Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Atenuation requirement	Utilities	Temp disruption	Construction access							
0	50																				Bendiness and Disruption for construction due to online section.	
50	100																					Bendiness and Disruption for construction due to online section.
100	150																					Bendiness and Disruption for construction due to online section.
150	200																					Bendiness and Disruption for construction due to online section.
200	250																					Bendiness and Disruption for construction due to online section.
250	300																					Bendiness and Disruption for construction due to online section.
300	350																					Bendiness and Disruption for construction due to online section.
350	400																					Bendiness and Disruption for construction due to online section.
400	450																					Bendiness and Disruption for construction due to online section.
450	500																					Bendiness and Disruption for construction due to online section combined with Traffic Scotland Asset.
500	550																					Bendiness and Disruption for construction due to online section.
550	600																					Bendiness and Disruption for construction due to online section.
600	650																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
650	700																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
700	750																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
750	800																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
800	850																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
850	900																					Bendiness and Disruption for construction due to online section combined with SSE 33kV line.
900	950																					Bendiness and Disruption for construction due to online section, change in vertical level.
950	1000																					Bendiness and Disruption for construction due to online section, change in vertical level.
1000	1050																					Bendiness and Disruption for construction due to online section, change in vertical level.
1050	1100																					Bendiness and Disruption for construction due to online section, change in vertical level.
1100	1150																					Bendiness and Disruption for construction due to online section, change in vertical level.
1150	1200																					Bendiness and Disruption for construction due to online section, change in vertical level.
1200	1250																					Bendiness and Disruption for construction due to online section, change in vertical level.
1250	1300																					Bendiness and Disruption for construction due to online section, change in vertical level.
1300	1350																					273mm diameter SON high pressure gas main crosses alignment at this point. Proposed road level approximately 5m higher than existing.
1350	1400																					Bendiness and Disruption for construction due to online section, change in vertical level.
1400	1450																					Bendiness and Disruption for construction due to online section, change in vertical level.
1450	1500																					Bendiness and Disruption for construction due to online section, change in vertical level.
1500	1550																					Combination of moderate level difference and unknown ground conditions.
1550	1600																					Combination of moderate level difference and unknown ground conditions.
1600	1650																					Combination of moderate level difference and unknown ground conditions.
1650	1700																					Combination of moderate level difference and unknown ground conditions.
1700	1750																					Combination of moderate level difference and unknown ground conditions.
1750	1800																					Combination of moderate level difference and unknown ground conditions.
1800	1850																					Bendiness and Disruption for construction due to online section, large embankment leading to increase in geo impact.
1850	1900																					Bendiness and Disruption for construction due to online section, large embankment leading to increase in geo impact.
1900	1950																					Bendiness and Disruption for construction due to online section, large embankment leading to increase in geo impact.
1950	2000																					Bendiness and Disruption for construction due to online section, large embankment leading to increase in geo impact.
2000	2050																					Construction moved off existing alignment improving access and disruption, impact on ground rated as slight.
2050	2100																					Construction moved off existing alignment improving access and disruption, impact on ground rated as slight.
2100	2150																					
2150	2200																					
2200	2250																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2250	2300																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2300	2350																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2350	2400																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2400	2450																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2450	2500																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2500	2550																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2550	2600																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2600	2650																					Large cutting in rock (up to 23m deep) - potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2650	2700																					
2700	2750																					
2750	2800																					
2800	2850																					Presence of Peat - mix of slight cuttings and embankment through this area. Pylon close to alignment at ch 3219.
2850	2900																					Presence of Peat - mix of slight cuttings and embankment through this area. Pylon close to alignment at ch 3219.
2900	2950																					Presence of Peat - mix of slight cuttings and embankment through this area. Pylon close to alignment at ch 3219.
2950	3000																					Presence of Peat - mix of slight cuttings and embankment through this area. Pylon close to alignment at ch 3219.
3000	3050																					Presence of Peat - mix of slight cuttings and embankment through this area. Pylon close to alignment at ch 3219.

10950	11000	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11000	11050	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11050	11100	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11100	11150	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11150	11200	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11200	11250	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11250	11300	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11300	11350	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11350	11400	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11400	11450	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11450	11500	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11500	11550	-1	0	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-4	-4	Compressible soils combined with disruption due to online construction.
11550	11600	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	Bendiness, disruption due to online construction.
11600	11650	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	Bendiness, disruption due to online construction.
11650	11700	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	Bendiness, disruption due to online construction.
11700	11750	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	Bendiness, disruption due to online construction.
11750	11800	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	Bendiness, disruption due to online construction.
11800	11850	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-5	-5	275kV SSE line crossing. Pylon within 100m of alignment at st 11750.
11850	11900	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-5	-5	275kV SSE line crossing. Pylon within 100m of alignment at st 11750.
11900	11950	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-3	-3	
11950	12000	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12000	12050	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12050	12100	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12100	12150	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12150	12200	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12200	12250	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-5	-5	Small treatment works combined with bendiness and disruption.
12250	12300	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12300	12350	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12350	12400	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12400	12450	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12450	12500	-1	-1	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12500	12550	-1	-1	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12550	12600	-1	-1	-2	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-5	-5	Small culvert combined with bendiness and disruption.
12600	12650	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12650	12700	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12700	12750	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.
12750	12800	-1	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2	-4	-4	Distribution Mains crossings.

0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	
-4	Very Major Adverse	

Rules

Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities Score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Chainage	Start Chainage	End Chainage	Alignment		Geotechnics	Structures	Flooding and Drainage	Utilities	Constructability	Score	Comments	
			Level Difference	Bendiness								
0	50		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
50	100		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
100	150		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
150	200		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
200	250		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
250	300		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
300	350		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
350	400		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
400	450		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
450	500		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with Traffic Scotland Asset.	
500	550		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
550	600		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section.	
600	650		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
650	700		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
700	750		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
750	800		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
800	850		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
850	900		-1	0	0	0	0	0	-1	-2	Bendiness and Disruption for construction due to online section combined with SSE 33kV line.	
900	950		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
950	1000		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1000	1050		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1050	1100		-1	0	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1100	1150		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1150	1200		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1200	1250		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1250	1300		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1300	1350		-1	-1	0	0	0	0	-2	-5	273mm diameter SON high pressure gas main crosses alignment at this point. Proposed road level approximately 5m higher than existing.	
1350	1400		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1400	1450		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1450	1500		-1	-1	0	0	0	0	0	-2	Bendiness and Disruption for construction due to online section, change in vertical level.	
1500	1550		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1550	1600		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1600	1650		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1650	1700		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1700	1750		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1750	1800		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1800	1850		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1850	1900		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1900	1950		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
1950	2000		-1	-2	0	0	0	0	0	-2	Combination of moderate level difference and unknown ground conditions, online construction.	
2000	2050		-1	-2	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2050	2100		-1	-2	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2100	2150		-1	-2	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2150	2200		-1	-2	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2200	2250		-1	-2	0	0	0	0	0	-1	-3	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2250	2300		-1	-2	0	0	0	0	0	-1	-3	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2300	2350		-1	-2	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2350	2400		-1	-3	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2400	2450		-1	-3	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2450	2500		-1	-3	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2500	2550		-1	-3	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2550	2600		-1	-3	0	0	0	0	0	-1	-4	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2600	2650		-1	-2	0	0	0	0	0	-1	-3	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2650	2700		-1	-2	0	0	0	0	0	-1	-3	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2700	2750		-1	-2	0	0	0	0	0	-1	-3	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2750	2800		-1	-1	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2800	2850		-1	-1	0	0	0	0	0	-1	-2	Offline construction. Large cutting in rock (up to 22m deep) potential to be a deeper cutting at 2nd fix if vertical alignment lowered between ch 1000 and 2000m to suit online construction.
2850	2900		-1	-1	0	0	0	0	0	-1	-4	Structure for side road crossing.
2900	2950		-1	-1	0	0	0	0	0	-1	-4	SSE 275kV line, SSE Pylon at Ch 2942.
2950	3000		-1	-1	0	0	0	0	0	-1	-4	SSE 275kV line, SSE Pylon at Ch 2942.
3000	3050		-1	-1	0	0	0	0	0	-1	-4	SSE 275kV line, SSE Pylon at Ch 2942.
3050	3100		-1	0	0	0	0	0	0	-1	-4	Presence of Peat - mix of slight cuttings and embankment through this area.
3100	3150		-1	0	0	0	0	0	0	-1	-4	Presence of Peat - mix of slight cuttings and embankment through this area.
3150	3200		-1	0	0	0	0	0	0	-1	-4	Presence of Peat - mix of slight cuttings and embankment through this area.
3200	3250		-1	0	0	0	0	0	0	-1	-4	Presence of Peat - mix of slight cuttings and embankment through this area.

12700	12750	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
12750	12800	-1	0	-2	0	-1	0	0	0	0	0	0	-2	0	-2	-5	-5	Small treatment works combined with bendiness and disruption.
12800	12850	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
12850	12900	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
12900	12950	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
12950	13000	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13000	13050	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13050	13100	-1	-1	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13100	13150	-1	-1	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13150	13200	-1	-1	-2	0	-1	0	-1	0	0	0	0	-1	0	-2	-5	-5	Small culvert combined with bendiness and disruption.
13200	13250	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13250	13300	-1	0	-2	0	-1	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings.
13300	13350																	
13350	13400																	

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Rules

Total Score
= Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities score + Constructability Score
(Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage	Start Chainage	End Chainage	Alignment Length	Alignment			Geotechnics			Structures			Flooding and Drainage			Utilities			Constructability			Score	Adjusted Total	Comments
				Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Atenuation requirement	Utilities	Construction access	Temp disruption	Adjusted	Total							
0	50			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50	100			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
100	150			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
150	200			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
200	250			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
250	300			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
300	350			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
350	400			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
400	450			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
450	500			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
500	550			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
550	600			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
600	650			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
650	700			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
700	750			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
750	800			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
800	850			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
850	900			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
900	950			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
950	1000			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1000	1050			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1050	1100			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1100	1150			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1150	1200			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1200	1250			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1250	1300			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1300	1350			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1350	1400			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	650x 273mm HP Gas main crossing - alignment at grade
1400	1450			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	650x 273mm HP Gas main crossing - alignment at grade
1450	1500			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1500	1550			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1550	1600			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1600	1650			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
1650	1700			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1700	1750			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1750	1800			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1800	1850			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1850	1900			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1900	1950			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
1950	2000			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
2000	2050			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
2050	2100			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
2100	2150			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Slight to moderate embankment on unidentified soils. Private Utility at ch 1800m.
2150	2200			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2200	2250			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2250	2300			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2300	2350			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2350	2400			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2400	2450			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2450	2500			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2500	2550			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2550	2600			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2600	2650			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2650	2700			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2700	2750			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
2750	2800			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	12-17m high cutting in unidentified soils.
2800	2850			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	12-17m high cutting in unidentified soils.
2850	2900			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	12-17m high cutting in unidentified soils.
2900	2950			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Cutting up to 21.3m (but greater than 19m) high in non-identified geotechnical constraints. Wind Turbine within 100m of alignment. Bendiness and Level difference are moderate due to the proposed geometry.
2950	3000			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils. Moderate impact extended due to large cutting from 2850 to 3000.
3000	3050			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils. Moderate impact extended due to large cutting from 2850 to 3000.
3050	3100			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3100	3150			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3150	3200			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3200	3250			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3250	3300			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3300	3350			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3350	3400			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.
3400	3450			0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	Large cutting (up to 21m high) in unidentified soils - combined with 273mm 50N HP mains crossing. Structure at ch 3150. Overall impact rated as moderate.

11300	11350	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	-2	-2	-2
11350	11400	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11400	11450	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11450	11500	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11500	11550	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11550	11600	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11600	11650	0	0	-2	0	0	0	0	0	0	0	0	-2	0	0	-2	-4	-4
11650	11700	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11700	11750	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11750	11800	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11800	11850	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
11850	11900	0	-1	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-4	-4
11900	11950	0	-1	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-4	-4
11950	12000	0	-1	-2	0	0	0	-1	0	0	0	0	-1	0	0	-2	-5	-5
12000	12050	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
12050	12100	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
12100	12150	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3
12150	12200	0	0	-2	0	0	0	0	0	0	0	0	-1	0	0	-2	-3	-3

12050	12100	-1	0	-2	-1	0	-1	0	0	0	0	0	-2	0	-2	-4	-4	275kV SSE line crossing pylon within 100m of alignment at ch 11933m and 12065m Disruption due to partial online construction as alignment is positioned to the east of the existing A96, potential compressible soils.
12100	12150	-1	-1	-2	-1	0	-1	0	0	0	0	0	0	0	-2	-4	-4	Disruption due to partial online construction as alignment is positioned to the east of the existing A96, potential compressible soils.
12150	12200	-1	0	-2	-1	0	-1	0	0	0	0	0	-1	0	-2	-4	-4	Disruption due to partial online construction as alignment is positioned to the east of the existing A96, potential compressible soils. Distribution mains crossings
12200	12250	-1	0	-2	-1	0	-1	0	0	0	0	0	-1	0	-2	-5	-5	Disruption due to partial online construction as alignment is positioned to the east of the existing A96, potential compressible soils. Distribution mains crossings
12250	12300	-1	0	-2	-1	0	-1	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12300	12350	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12350	12400	-1	0	-2	-1	0	0	0	0	0	0	0	-2	0	-2	-5	-5	Small treatment works combined with bendiness and disruption
12400	12450	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12450	12500	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12500	12550	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12550	12600	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12600	12650	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12650	12700	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12700	12750	-1	0	-2	-1	0	0	-1	0	0	0	0	-1	0	-2	-5	-5	Small culvert combined with bendiness and disruption
12750	12800	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12800	12850	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12850	12900	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12900	12950	-1	0	-2	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	Distribution Mains crossings
12950	13000																	
13000	13050																	

0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	

Rules
Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities score + Constructability Score
 (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Chainage	Start Chainage	End Chainage	Alignment Length	Alignment					Geotechnics	Structures	Floodplain	Watercourse Crossings	Floodplain	Utilities	Utilities	Temp disruption	Constructability	Comments
				Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics										
0	50			0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
50	100			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
100	150			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
150	200			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
200	250			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
250	300			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
300	350			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
350	400			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
400	450			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
450	500			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	Traffic Scattered Assets.
500	550			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	
550	600			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	
600	650			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
650	700			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
700	750			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
750	800			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
800	850			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
850	900			0	0	-2	-1	-3	0	0	0	0	0	0	-1	0	0	SS 33kV lines.
900	950			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
950	1000			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1000	1050			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1050	1100			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1100	1150			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1150	1200			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1200	1250			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1250	1300			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	Disruption due to Deline construction - Moderate Bendiness/ slight hilliness.
1300	1350			0	0	-2	-1	-3	0	0	0	0	0	0	-2	0	0	50N 273mm HP Gas main crossing - alignment at grade.
1350	1400			0	0	-2	-1	-3	0	0	0	0	0	0	-2	0	0	50N 273mm HP Gas main crossing - alignment at grade.
1400	1450			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	
1450	1500			0	0	-2	-1	-3	0	0	0	0	0	0	0	0	0	
1500	1550			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
1550	1600			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
1600	1650			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
1650	1700			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
1700	1750			0	-1	-2	-1	-3	-1	0	0	0	0	0	-1	-3	-3	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
1750	1800			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
1800	1850			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-5	-5	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
1850	1900			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
1900	1950			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
1950	2000			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate embankment on unidentified soils. Private Utility at ch 1818m.
2000	2050			0	-2	-2	-1	-3	0	0	0	0	0	0	-1	-3	-3	Combination of hilliness, bendiness and overall earthworks/m2.
2050	2100			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2100	2150			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2150	2200			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2200	2250			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2250	2300			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2300	2350			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2350	2400			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2400	2450			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2450	2500			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2500	2550			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
2550	2600			0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in cutting.
2600	2650			0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in cutting.
2650	2700			0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in cutting.
2700	2750			0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-6	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
2750	2800			0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
2800	2850			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
2850	2900			0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
2900	2950			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
2950	3000			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3000	3050			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3050	3100			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3100	3150			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3150	3200			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3200	3250			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-9	273mm diameter 50N high pressure gas main crosses alignment at this point. Structure required for side road.
3250	3300			0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-7	273mm diameter 50N high pressure gas main crosses alignment at this point. Alignment in large cutting up to 32m deep.
3300	3350			0	-3	-2	-1	-3	-2	0	0	0	0	0	-1	-5	-5	Slight to moderate cutting.
3350	3400			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate cutting.
3400	3450			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate cutting.
3450	3500			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate cutting.
3500	3550			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-4	-4	Slight to moderate cutting.
3550	3600			0	-2	-2	-1	-3	-1	0	0	0	0	0	-1	-3	-3	Slight to moderate cutting.
3600	3650			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
3650	3700			0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	
3700	3750			0	0	-2	-1	-3	0	0	0	0	0	0	-1	-2	-2	

0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	

Rules
 Total Score = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Chainage	Start Chainage	End Chainage	Alignment Length	Alignment					Geotechnics	Structures	Floodplain	Watercourse Crossings	Utilities	Constructability	Score	Comments	
				Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics									Structures
0	50	0	0	0	0	-1	0	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
50	100	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
100	150	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
150	200	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
200	250	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
250	300	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
300	350	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
350	400	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
400	450	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
450	500	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	Traffic Scotland Assets.
500	550	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
550	600	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
600	650	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
650	700	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
700	750	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
750	800	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
800	850	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
850	900	0	0	0	0	-1	-3	0	0	0	0	0	-1	0	-2	-4	SEE 38KV lines.
900	950	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
950	1000	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1000	1050	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1050	1100	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1100	1150	0	-1	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1150	1200	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1200	1250	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction disruption.
1250	1300	0	-1	0	0	-1	-3	0	0	0	0	0	-1	0	-1	-2	-2
1300	1350	0	-1	0	0	-1	-3	0	0	0	0	0	-2	-1	-1	-4	SGN 273mm HP Gas main crossing. Alignment on embankment - ground conditions not identified.
1350	1400	0	-1	0	0	-1	-3	-1	0	0	0	0	-2	-1	-1	-5	SGN 273mm HP Gas main crossing. Alignment on embankment - ground conditions not identified.
1400	1450	0	-2	0	0	-1	-3	-1	0	0	0	0	-2	-1	-1	-5	SGN 273mm HP Gas main crossing. Alignment on embankment - ground conditions not identified.
1450	1500	0	-2	0	0	-1	-3	-1	0	0	0	0	-1	-1	-1	-3	Alignment on embankment (up to 17m) - ground conditions not identified.
1500	1550	0	-2	0	0	-1	-3	-1	0	0	0	0	-1	-1	-1	-3	Alignment on embankment (up to 17m) - ground conditions not identified.
1550	1600	0	-2	0	0	-1	-3	-1	0	0	0	0	-1	-1	-1	-3	Alignment on embankment (up to 17m) - ground conditions not identified.
1600	1650	0	-2	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1650	1700	0	-2	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1700	1750	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1750	1800	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1800	1850	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-5	Alignment on embankment (up to 33m) - ground conditions not identified. Private Water supply.
1850	1900	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1900	1950	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
1950	2000	0	-3	0	0	-1	-3	-2	0	0	0	0	-1	-1	-1	-4	Alignment on embankment (up to 33m) - ground conditions not identified.
2000	2050	0	-3	0	0	-1	-3	-1	0	0	0	0	-1	-1	-1	-3	Alignment on embankment (up to 33m) - ground conditions not identified.
2050	2100	0	-2	0	0	-1	-3	-1	0	0	0	0	-1	-1	-1	-3	Alignment on embankment (up to 33m) - ground conditions not identified.
2100	2150	0	-2	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2150	2200	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2200	2250	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2250	2300	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2300	2350	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2350	2400	0	-1	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2400	2450	0	-1	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2450	2500	0	-1	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2500	2550	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2550	2600	0	0	0	0	-1	-3	0	0	0	0	0	0	0	-2	-3	Online construction - slight embankment. Vertical alignment to be refined at 2nd fix.
2600	2650	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2650	2700	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2700	2750	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2750	2800	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2800	2850	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2850	2900	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
2900	2950	0	-1	0	0	-1	-3	0	0	0	0	0	-2	-1	-1	-4	Wind turbine within 100m of alignment.
2950	3000	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3000	3050	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3050	3100	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3100	3150	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3150	3200	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3200	3250	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3250	3300	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3300	3350	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3350	3400	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3400	3450	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3450	3500	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3500	3550	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3550	3600	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3600	3650	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3650	3700	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3700	3750	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3750	3800	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3800	3850	0	0	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3850	3900	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
3900	3950	0	-1	0	0	-1	-3	0	0	0	0	0	-1	-1	-2	-2	

0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	

Rules
Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities score + Constructability Score
 (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Start Chainage	End Chainage	Alignment Length	Alignment		Geotechnics	Structures	Flooding and Drainage	Utilities	Constructability	Score	Comments
			Level Difference	Bendiness							
0	50	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
50	100	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
100	150	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
150	200	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
200	250	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
250	300	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
300	350	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
350	400	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
400	450	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
450	500	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with Traffic Scotland Asset.
500	550	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
550	600	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section.
600	650	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
650	700	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
700	750	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
750	800	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
800	850	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
850	900	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section combined with SSE 33kV line.
900	950	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
950	1000	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1000	1050	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1050	1100	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1100	1150	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1150	1200	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1200	1250	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1250	1300	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1300	1350	0	0	-2	-2	0	0	0	-2	-2	273mm diameter SON high pressure gas main crosses alignment at this point. Proposed road level approximately 5m higher than existing.
1350	1400	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1400	1450	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1450	1500	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1500	1550	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1550	1600	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1600	1650	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1650	1700	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1700	1750	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1750	1800	0	-1	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1800	1850	0	-1	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1850	1900	0	-1	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1900	1950	0	0	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
1950	2000	0	-1	-2	-2	0	0	0	0	-2	Redness and Disruption for construction due to online section, change in vertical level.
2000	2050	0	0	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section, change in vertical level.
2050	2100	0	-1	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2100	2150	0	-2	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2150	2200	0	-2	-2	-2	-2	0	0	-1	-4	Offline construction. Large cutting in rock (up to 27m deep).
2200	2250	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2250	2300	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2300	2350	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2350	2400	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2400	2450	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2450	2500	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2500	2550	0	-3	-2	-2	-2	0	0	-1	-5	Offline construction. Large cutting in rock (up to 27m deep).
2550	2600	0	-2	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2600	2650	0	-2	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2650	2700	0	-2	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2700	2750	0	-2	-2	-2	-1	0	0	-1	-3	Offline construction. Large cutting in rock (up to 27m deep).
2750	2800	0	-1	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section, change in vertical level.
2800	2850	0	-1	-2	-2	0	0	0	-1	-2	Redness and Disruption for construction due to online section, change in vertical level.
2850	2900	0	-1	-2	-2	0	0	0	-2	-1	SSE 275kV line. SSE Pylon at Ch 2842.
2900	2950	0	-1	-2	-2	0	0	0	-2	-1	SSE 275kV line. SSE Pylon at Ch 2842.
2950	3000	0	-1	-2	-2	0	0	0	-2	-1	Presence of Peat - mix of slight cuttings and embankment through this area. SSE 275kV line.
3000	3050	0	0	-2	-2	-2	0	0	-2	-1	Presence of Peat - mix of slight cuttings and embankment through this area. SSE 275kV line.
3050	3100	0	0	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3100	3150	0	0	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3150	3200	0	0	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3200	3250	0	-1	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3250	3300	0	-1	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3300	3350	0	-1	-2	-2	-2	0	0	-2	-1	SSE Pylon within 100m of alignment at Ch 3280, structure for side road crossing.
3350	3400	0	-1	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3400	3450	0	-1	-2	-2	-2	0	0	-1	-1	Redness and Disruption for construction due to online section, change in vertical level.
3450	3500	0	0	-2	-2	-2	0	0	-1	-2	Slight level difference on the alignment of existing side road disruption during construction.

8650	8700	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
8700	8750	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
8750	8800	0	-3	-2	-1	-2	-2	0	0	0	0	0	-2	-3	-1	-9	-9	Large cutting up to 36m in rock. 33KV line. Pylon within 100m of alignment at ch 8727m. Difficult construction access.
8800	8850	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
8850	8900	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
8900	8950	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
8950	9000	0	-3	-2	-1	-2	-2	0	0	0	0	0	-2	-3	-1	-9	-9	Large cutting up to 36m in rock. 300mm SGN gas main at this location. Difficult construction access.
9000	9050	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
9050	9100	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
9100	9150	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
9150	9200	0	-3	-2	-1	-2	-2	0	0	0	0	0	-1	-3	-1	-8	-8	Large cutting up to 36m in rock. 33KV line. Difficult construction access.
9200	9250	0	-3	-2	-1	-2	-2	0	0	0	0	0	-2	-3	-1	-9	-9	Large cutting up to 22m in rock. SGN 273mm HP Gas Main. Difficult construction access.
9250	9300	0	-2	-2	-1	-2	-1	0	0	0	0	0	-2	-3	-1	-7	-7	Large cutting up to 25m in rock. SGN 273mm HP Gas Main. Difficult construction access.
9300	9350	0	-2	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9350	9400	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9400	9450	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9450	9500	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9500	9550	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9550	9600	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9600	9650	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9650	9700	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9700	9750	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9750	9800	0	0	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9800	9850	0	0	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9850	9900	0	0	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9900	9950	0	0	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
9950	10000	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-3	-1	-5	-5	Private Utility supplies. Difficult construction access.
10000	10050	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-3	-1	-5	-5	Private Utility supplies. Difficult construction access.
10050	10100	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
10100	10150	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
10150	10200	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
10200	10250	0	-1	-2	-1	-2	0	0	0	0	0	0	-3	-1	-4	-4	Minor level difference. Difficult construction access.	
10250	10300	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10300	10350	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10350	10400	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10400	10450	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10450	10500	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10500	10550	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Embankment up to 7.5m high on compressible ground. Difficult construction access.	
10550	10600	0	0	-2	-1	-2	-1	0	0	0	0	-1	-3	-1	-4	-3	ROW Distribution Main.	
10600	10650	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10650	10700	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10700	10750	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10750	10800	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10800	10850	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10850	10900	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10900	10950	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
10950	11000	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11000	11050	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11050	11100	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11100	11150	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11150	11200	0	-1	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11200	11250	0	0	-2	-1	-2	-1	0	0	0	0	0	-3	-1	-5	-5	Minor embankment on compressible ground. Difficult construction access.	
11250	11300	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11300	11350	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11350	11400	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11400	11450	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11450	11500	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11500	11550	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11550	11600	0	0	-2	-1	-2	0	0	0	0	0	0	-1	-1	-2	-2		
11600	11650																	
11650	11700																	

0	Neutral	Criteria
-1	Slight Adverse	
1	Minor Adverse	
2	Moderate Adverse	
3	Major Adverse	

Rules

Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) + Utilities Score + Constructability Score
 (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Channage	Start Channage	End Channage	Alignment length	Alignment					Geotechnics	Structures	Flooding and Drainage	Utilities	Constructability	Score	Comments			
				Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics										
	0	50		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	50	100		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	100	150		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	150	200		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	200	250		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	250	300		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	300	350		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	350	400		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	400	450		0	0	-1	-1	-3	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Minor overall hilliness and bendiness. Large overall earthworks/m.	
	450	500		0	0	-1	-1	-3	0	0	0	0	-1	0	-3	-4	-4	Traffic Scotland Access.
	500	550		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	
	550	600		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	
	600	650		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	650	700		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	700	750		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	750	800		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	800	850		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	850	900		0	0	-1	-1	-3	0	0	0	0	-1	0	-2	-4	-4	SSE 33kV lines.
	900	950		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	950	1000		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1000	1050		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1050	1100		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1100	1150		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1150	1200		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1200	1250		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1250	1300		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	Disruption due to Deline construction. Moderate bendiness/ slight hilliness.
	1300	1350		0	0	-1	-1	-3	0	0	0	0	-2	0	-2	-5	-5	SGN 273mm HP Gas main crossing - alignment at grade.
	1350	1400		0	0	-1	-1	-3	0	0	0	0	-2	0	-2	-5	-5	SGN 273mm HP Gas main crossing - alignment at grade.
	1400	1450		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	
	1450	1500		0	0	-1	-1	-3	0	0	0	0	0	0	-2	-3	-3	
	1500	1550		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	1550	1600		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	1600	1650		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	1650	1700		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	1700	1750		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	1750	1800		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	1800	1850		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	1850	1900		0	-2	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	1900	1950		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	1950	2000		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2000	2050		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2050	2100		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2100	2150		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2150	2200		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2200	2250		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2250	2300		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2300	2350		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2350	2400		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2400	2450		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2450	2500		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2500	2550		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption.
	2550	2600		0	-3	-1	-1	-3	-2	0	0	0	0	-1	-1	-5	-5	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption. SGN 273mm HP Gas main crossing.
	2600	2650		0	-3	-1	-1	-3	-2	0	0	0	0	-2	-1	-7	-7	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption. SGN 273mm HP Gas main crossing.
	2650	2700		0	-3	-1	-1	-3	-2	0	0	0	0	-2	-1	-7	-7	Large embankment up to 32m high on non-identified ground conditions. Minor access impacts and local traffic disruption. SGN 273mm HP Gas main crossing.
	2700	2750		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Minor embankment non-identified ground condition.
	2750	2800		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Minor embankment non-identified ground condition.
	2800	2850		0	-2	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	2850	2900		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	2900	2950		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	2950	3000		0	0	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	3000	3050		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-4	-4	Structure for side road.
	3050	3100		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	3100	3150		0	-1	-1	-1	-3	0	0	0	0	0	-1	-1	-2	-2	
	3150	3200		0	-1	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Cutting up to 16m in rock combined with 33kV crossing.
	3200	3250		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-3	-3	Cutting up to 16m in rock combined with 33kV crossing.
	3250	3300		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-4	-4	Cutting up to 16m in rock combined with 33kV crossing.
	3300	3350		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-4	-4	Cutting up to 16m in rock combined with 33kV crossing.
	3350	3400		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-4	-4	Cutting up to 16m in rock combined with 33kV crossing.
	3400	3450		0	-2	-1	-1	-3	-1	0	0	0	0	-1	-1	-4	-4	Cutting up to 16m in rock combined with 33kV crossing.

3450	3500	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-4	-4	Cutting up to 35m in rock combined with 33kV crossing.
3500	3550	0	-2	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3550	3600	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3600	3650	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3650	3700	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3700	3750	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3750	3800	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3800	3850	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3850	3900	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	33kV crossing.
3900	3950	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
3950	4000	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4000	4050	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4050	4100	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4100	4150	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4150	4200	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4200	4250	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4250	4300	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4300	4350	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4350	4400	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4400	4450	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4450	4500	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4500	4550	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4550	4600	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4600	4650	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4650	4700	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4700	4750	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4750	4800	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4800	4850	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4850	4900	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4900	4950	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
4950	5000	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5000	5050	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5050	5100	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5100	5150	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5150	5200	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5200	5250	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5250	5300	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Embankment up to 14.5m high on non-identified ground conditions.
5300	5350	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Embankment up to 14.5m high on non-identified ground conditions.
5350	5400	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Embankment up to 14.5m high on non-identified ground conditions.
5400	5450	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Embankment up to 14.5m high on non-identified ground conditions.
5450	5500	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5500	5550	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5550	5600	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-2	-2	
5600	5650	0	-1	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Minor to Moderate cutting up to 34m in rock.
5650	5700	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-3	-3	Minor to Moderate cutting up to 34m in rock.
5700	5750	0	-2	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-4	-4	Minor to Moderate cutting up to 34m in rock.
5750	5800	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-5	-5	Minor to Moderate cutting up to 34m in rock.
5800	5850	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-5	-5	Minor to Moderate cutting up to 34m in rock.
5850	5900	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-6	-6	Major cutting up to 42m in rock.
5900	5950	0	-3	-1	-1	-3	-3	-2	0	0	0	0	-1	-1	-1	-9	-9	Structure for Windfarm access road.
5950	6000	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-8	-8	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6000	6050	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-7	-7	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6050	6100	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-7	-7	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6100	6150	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-7	-7	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6150	6200	0	-3	-1	-1	-3	-3	0	0	0	0	0	-1	-1	-1	-7	-7	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6200	6250	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Major cutting up to 42m in rock. Difficult construction access. Wind turbine within 100m of alignment at Ch 5973.
6250	6300	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Moderate cutting up to 35m in rock. Difficult construction access.
6300	6350	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Moderate cutting up to 35m in rock. Difficult construction access.
6350	6400	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Moderate cutting up to 35m in rock. Difficult construction access.
6400	6450	0	-3	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-5	-5	Minor cutting up to 35m in rock.
6450	6500	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-4	-4	Minor cutting up to 35m in rock.
6500	6550	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Difficult construction access.
6550	6600	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-4	-4	Private utility supply. Difficult construction access.
6600	6650	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6650	6700	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6700	6750	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6750	6800	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6800	6850	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6850	6900	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6900	6950	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
6950	7000	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7000	7050	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7050	7100	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7100	7150	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7150	7200	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7200	7250	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7250	7300	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7300	7350	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7350	7400	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7400	7450	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7450	7500	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7500	7550	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7550	7600	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7600	7650	0	-1	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7650	7700	0	0	-1	-1	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	Mix of slight cuttings and embankments. Difficult construction access.
7700	7750	0	-1	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-4	-4	Minor to Moderate cutting from 17m to 25m in non-identified ground. Difficult construction access.
7750	7800	0	-2	-1	-1	-3	-1	0	0	0	0	0	-1	-1	-1	-4	-4	Minor to Moderate cutting from 17m to 25m in non-identified ground. Difficult construction access.
7800	7850	0	-2	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-5	-5	Identified ground. Difficult construction access.
7850	7900	0	-2	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-5	-5	Minor to Moderate cutting from 17m to 25m in non-identified ground. Difficult construction access.
7900	7950	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Moderate cutting up to 25m in non-identified ground. Difficult construction access.
7950	8000	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1	-6	-6	Moderate cutting up to 25m in non-identified ground. Difficult construction access.
8000	8050	0	-3	-1	-1	-3	-2	0	0	0	0	0	-1	-1	-1			

