




Rev.	Date	Description	By	Eng. Ck	Disc. Ck	Appr
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

SUITABLE FOR INFORMATION						Status
PINS Reference Number						TR010031
Client						
Project Title						A1 Birtley to Coal House Scheme
Drawing Title						Figure 7.7.6 Sheet 1 of 26 Viewpoint 28 - Chowdene Bank Summer Existing View
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SW	AW	AW	NJJA		
Original Size	Date	Date	Date	Date		
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19		
Drawing Number	Originator	Volume	Revision			
HE PIN	WSP	6.2	P02			
ZZ	PH	LE	003	PW Stage Code		
Section	Type	Role	Number	Stage 3		

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance



Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA


  

Suitability		Status		
SUITABLE FOR INFORMATION				
PINS Reference Number		TR010031		
Client				
Project Title		A1 Birtley to Coal House Scheme		
Drawing Title		Figure 7.7.6 Sheet 2 of 26 Viewpoint 28 - Chowdene Bank Embankment Option Summer Year of Opening		
Scale	Drawn	Eng. Check	Approved	Authorised
NTS	SW	AW	AW	NJA
Original Size	Date	Date	Date	Date
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19
Drawing Number	Originator	Volume	Revision	
HE PIN HE551462	WSP	6.2	P02	
ZZ	PH	LE	003	PW Stage Code
Section	Type	Role	Number	Stage 3

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance



P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA	
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA	
Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/	
SUITABLE FOR INFORMATION							Status
PINS Reference Number							TR010031
							
Project Title A1 Birtley to Coal House Scheme							
Drawing Title Figure 7.7.6 Sheet 3 of 26 Viewpoint 28 - Chowdene Bank Embankment Option Summer Design Year							
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	SW	AW	AW	NJA			
Original Size	Date	Date	Date	Date			
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19			
Drawing Number	Originator	Volume	Revision				
HE PIN HE551462	WSP	6.2	P02				
ZZ	PH	LE	003	PW Stage Code			
Section	Type	Role	Number	Stage 3			

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance



OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m

Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 2/8/18 10:05

View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 4 of 26  
Viewpoint 28 - Chowdene Bank  
Embankment Option Summer 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003



Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

Suitability: SUITABLE FOR INFORMATION Status:

PINS Reference Number: TR010031



Client: A1 Birtley to Coal House Scheme

Drawing Title: Figure 7.7.6 Sheet 5 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (6 Span) Summer Year of Opening


Scale	Drawn	Eng. Check	Approved	Authorised
NTS	SW	AW	AW	NJA
Original Size	Date	Date	Date	Date
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19

Drawing Number	Originator	Volume	Revision				
HE PIN HE551462	WSP	6.2	P02				
Section	Type	ID	Direction	Type	Role	Number	Stage
ZZ	PH	LE	003				Stage 3

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance



P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA	
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA	
Rev.	Date	Description	By	Eng Ck	Disc Ck	App'd	
SUITABLE FOR INFORMATION							Status
PINS Reference Number							TR010031
							
Project Title A1 Birtley to Coal House Scheme							
Drawing Title Figure 7.7.6 Sheet 6 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (6 Span) Summer Design Year							
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	SW	AW	AW	NJA			
Original Size	Date	Date	Date	Date			
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19			
Drawing Number	Originator	Volume	Revision				
HE PIN HE551462	WSP	6.2	P02				
ZZ	PH	LE	003	PW Stage Code			
Section	Type	ID	Direction	Type	Role	Number	Stage 3

OS Reference : NZ 25410 58701  
 Direction of View: SOUTH  
 Distance to Scheme: 230m

Horizontal Field of View: 100°  
 Vertical Field of View: 39.6°  
 Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Camera Height: 1.5m  
 Date & Time: 2/8/18 10:05

Not representative of scale and distance



OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m

Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 2/8/18 10:05

View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 7 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (6 Span) Summer 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003



Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	App'd
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

Suitability: SUITABLE FOR INFORMATION Status:

PINS Reference Number: TR010031



Project Title: A1 Birtley to Coal House Scheme

Drawing Title: Figure 7.7.6 Sheet 8 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (7 Span) Summer Year of Opening

Scale	Drawn	Eng. Check	Approved	Authorised
NTS	SW	AW	AW	NJA
Original Size	Date	Date	Date	Date
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19


Drawing Number	Originator	Volume	Revision		
HE PIN HE551462	WSP	6.2	P02		
Section	Type	Direction	Role	Number	Stage
ZZ	PH	LE	003		Stage 3

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance





P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA			
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA			
Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/			
SUITABLE FOR INFORMATION							Status		
PINS Reference Number							TR010031		
									
Project Title: A1 Birtley to Coal House Scheme									
Drawing Title: Figure 7.7.6 Sheet 9 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (7 Span) Summer Design Year									
Scale	Drawn	Eng. Check	Approved	Authorised					
NTS	SW	AW	AW	NJA					
Original Size	Date	Date	Date	Date					
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19					
Drawing Number	Originator	Volume	Revision						
HE PIN HE551462	WSP	6.2	P02						
ZZ	PH	LE	003						
Section	Type	Role	Number						

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 2/8/18 10:05

Not representative of scale and distance

Security Cases



OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m


Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 2/8/18 10:05

View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 10 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (7 Span) Summer 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003




P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA
Rev.	Date	Description	By	Eng'g Ck'd	Disc Ck'd	App'd
Suitability						Status
SUITABLE FOR INFORMATION						
PINS Reference Number						TR010031
Client						
Project Title						A1 Birtley to Coal House Scheme
Drawing Title						Figure 7.7.6 Sheet 14 of 26 Viewpoint 28 - Chowdene Bank Winter Existing View
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SW	AW	AW	NJJA		
Original Size	Date	Date	Date	Date		
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19		
Drawing Number	Originator	Volume	Revision			
HE PIN	WSP	6.2	P02			
HE551462			PW Stage Code			
ZZ	PH	LE	003	Stage 3		
Section	Type	ID	Direction	Type	Role	Number

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 13/11/18 16:18

Not representative of scale and distance




P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA	
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA	
Rev.	Date	Description	By	Eng'g Ck'd	Disc Ck'd	App'd	
SUITABLE FOR INFORMATION							Status
PINS Reference Number							TR010031
							
Project Title: A1 Birtley to Coal House Scheme							
Drawing Title: Figure 7.7.6 Sheet 15 of 26 Viewpoint 28 - Chowdene Bank Embankment Option Winter Year of Opening							
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	SW	AW	AW	NJA			
Original Size	Date	Date	Date	Date			
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19			
Drawing Number	Originator	Volume	Revision				
HE PIN	WSP	6.2	P02				
ZZ	PH	LE	003	PW Stage Code			
Section	Type	Role	Number	Stage 3			

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 13/11/18 16:18

Not representative of scale and distance



P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA
Rev.	Date	Description	By	Eng'g Ck'd	Disc Ck'd	App'd
Suitability						Status
SUITABLE FOR INFORMATION						
PINS Reference Number						TR010031
Client						
Project Title						A1 Birtley to Coal House Scheme
Drawing Title						Figure 7.7.6 Sheet 16 of 26 Viewpoint 28 - Chowdene Bank Embankment Option Winter Design Year
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SW	AW	AW	NJJA		
Original Size	Date	Date	Date	Date		
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19		
Drawing Number	Originator	Volume	Revision			
HE PIN HE551462	WSP	6.2	P02			
ZZ	PH	LE	003	PW Stage Code		
Section	Type	Role	Number	Stage 3		

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 13/11/18 16:18

Not representative of scale and distance

Security Cases



OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m

Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 13/11/18 16:18

View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 17 of 26  
Viewpoint 28 - Chowdene Bank  
Embankment Option Winter 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003



OS Reference : NZ 25410 58701  
 Direction of View: SOUTH  
 Distance to Scheme: 230m

Horizontal Field of View: 100°  
 Vertical Field of View: 39.6°  
 Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Camera Height: 1.5m  
 Date & Time: 13/11/18 16:18

Not representative of scale and distance

Rev.	Date	Description	By	Eng' Clk	Disc' Clk	App'd
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

SUITABLE FOR INFORMATION						Status
PINS Reference Number						TR010031
Project Title						A1 Birtley to Coal House Scheme
Drawing Title						Figure 7.7.6 Sheet 18 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (6 Span) Winter Year of Opening
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SW	AW	AW	NJJA		
Original Size	Date	Date	Date	Date		
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19		
Drawing Number	Originator	Volume	Revision		Revision	
HE PIN	WSP	6.2	P02		PW Stage Code	
ZZ	PH	LE	003	Stage 3		Stage 3
Section	Type	ID	Direction	Type	Role	Number



OS Reference : NZ 25410 58701  
 Direction of View: SOUTH  
 Distance to Scheme: 230m

Horizontal Field of View: 100°  
 Vertical Field of View: 39.6°  
 Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Camera Height: 1.5m  
 Date & Time: 13/11/18 16:18


Not representative of scale and distance

Scale		Drawn		Eng. Check		Approved		Authorised	
NTS		SW		AW		AW		NJA	
Original Size		Date		Date		Date		Date	
A3		APRIL 19		APRIL 19		APRIL 19		APRIL 19	
Drawing Number		Originator		Volume		Revision			
HE PIN		WSP		6.2		P02			
ZZ		PH		LE		003		PW Stage Code	
Section		Type		Role		Number		Stage 3	

Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

Suitability		Status	
SUITABLE FOR INFORMATION			
PINS Reference Number			
TR010031			
Client			
			
Project Title			
A1 Birtley to Coal House Scheme			
Drawing Title			
Figure 7.7.6 Sheet 19 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (6 Span) Winter Design Year			





OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m

Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 13/11/18 16:18


View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 20 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (6 Span) Winter 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003



Rev.	Date	Description	By	Eng. Ck/	Disc. Ck/	Appr/
P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
P01	DEC 18	FIRST ISSUE	SW	AW	AW	NJA

SUITABLE FOR INFORMATION						Status	
PINS Reference Number						TR010031	
							
Project Title							A1 Birtley to Coal House Scheme
Drawing Title							Figure 7.7.6 Sheet 21 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (7 Span) Winter Year of Opening
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	SW	AW	AW	NJJA			
Original Size	Date	Date	Date	Date			
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19			
Drawing Number	Originator	Volume	Revision				
HE PIN	WSP	6.2	P02				
ZZ	PH	LE	003	PW Stage Code			
Section	Type	ID	Direction	Type	Role	Number	
						Stage 3	

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 13/11/18 16:18

Not representative of scale and distance



P02	FEB 20	AMENDMENTS FOR GANTRIES	JD	AW	AW	NJA
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Rev.	Date	Description	By	Eng' Clk	Disc' Clk	App'd
Suitability						Status
SUITABLE FOR INFORMATION						
PINS Reference Number						TR010031
Client						
Project Title						A1 Birtley to Coal House Scheme
Drawing Title						Figure 7.7.6 Sheet 22 of 26 Viewpoint 28 - Chowdene Bank Viaduct Option (7 Span) Winter Design Year
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SW	AW	AW	NJJA		
Original Size	Date	Date	Date	Date		
A3	APRIL 19	APRIL 19	APRIL 19	APRIL 19		
Drawing Number	Originator	Volume	Revision			
HE PIN	WSP	6.2	P02			
ZZ	PH	LE	003	PW Stage Code		
Section	Type	Role	Number	Stage 3		

OS Reference : NZ 25410 58701      Horizontal Field of View: 100°      Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
 Direction of View: SOUTH      Vertical Field of View: 39.6°      Camera Height: 1.5m  
 Distance to Scheme: 230m      Camera: CANON EOS 5DS      Date & Time: 13/11/18 16:18

Not representative of scale and distance



OS Reference : NZ 25410 58701  
Direction of View: SOUTH  
Distance to Scheme: 230m

Horizontal Field of View: 40°  
Vertical Field of View: 39.6°  
Camera: CANON EOS 5DS

Lens: Sigma 50mm f1.4 DG HSM | A (Canon)  
Camera Height: 1.5m  
Date & Time: 13/11/18 16:18

View flat at comfortable arm's length. If viewing this image on a screen, enlarge to full screen height.

Figure 7.7.6 Sheet 23 of 26  
Viewpoint 28 - Chowdene Bank  
Viaduct Option (7 Span) Winter 40° Single Frame  
HE551462-WSP-6.2-ZZ-PH-LE-003