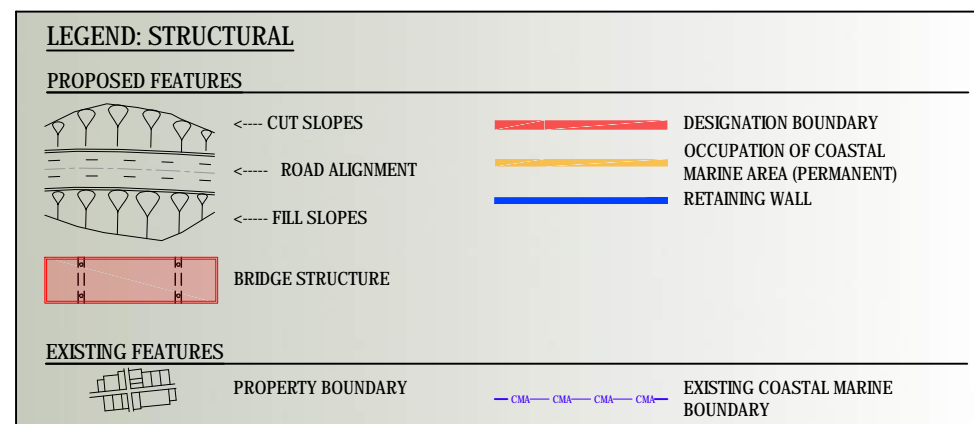


PLAN SET 8 STRUCTURAL

EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DATE AND REVISION			
	PLAN SET 8 - STRUCTURAL		1/12/2016	14/12/2016		
AEE-S-001	STRUCTURAL - EAST WEST LINK - DRAWING INDEX, NOTES AND LEGEND	1	0	1		
AEE-S-010	STRUCTURAL - KEY PLAN	1	0	1		
AEE-S-011	STRUCTURAL - SH20/ NEILSON ST INTERCHANGE OVERBRIDGE - PLAN AND LONG SECTION	0	0			
AEE-S-012	STRUCTURAL - SH20/ NEILSON ST INTERCHANGE OVERBRIDGE - TYPICAL CROSS SECTION	0	0			
AEE-S-014	STRUCTURAL - ONEHUNGA HARBOUR ROAD PEDESTRIAN/CYCLE BRIDGE - PLAN	0	0			
AEE-S-015	STRUCTURAL - ALFRED STREET PEDESTRIAN/CYCLE BRIDGE - PLAN	0	0			
AEE-S-016	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - PLAN AND LONG SECTION	0	0			
AEE-S-017	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - TYPICAL CROSS SECTIONS - SHEET 1	0	0			
AEE-S-018	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - TYPICAL CROSS SECTIONS - SHEET 2	0	0			
AEE-S-021	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 1	0	0			
AEE-S-022	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 2	0	0			
AEE-S-023	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 3	0	0			
AEE-S-024	STRUCTURAL - ANNS CREEK VIADUCT - EAST - PLAN AND LONG SECTION - SHEET 4	1	0	1		
AEE-S-025	STRUCTURAL - ANNS CREEK VIADUCT - EAST - PLAN AND LONG SECTION - SHEET 5	1	0	1		
AEE-S-031	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - CONCRETE - SHEET 1	0	0			
AEE-S-032	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - CONCRETE - SHEET 2	1	0	1		
AEE-S-033	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - STEEL	1	0	1		
AEE-S-041	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 1	1	0	1		
AEE-S-042	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 2	1	0	1		
AEE-S-043	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 3	1	0	1		
AEE-S-045	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - CONCRETE	1	0	1		
AEE-S-046	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - STEEL	1	0	1		
AEE-S-051	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - PLAN AND LONG SECTION - SHEET 1	1	0	1		
AEE-S-052	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - PLAN AND LONG SECTION - SHEET 2	1	0	1		
AEE-S-055	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - TYPICAL CROSS SECTION - SHEET 1	1	0	1		
AEE-S-056	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - TYPICAL CROSS SECTION - SHEET 2	1	0	1		

EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DATE AND REVISION			
			1/12/2016	14/12/2016		
AEE-S-061	STRUCTURAL - PANAMA ROAD OVERBRIDGE - PLAN AND LONG SECTION	0	0			
AEE-S-062	STRUCTURAL - PANAMA ROAD OVERBRIDGE - TYPICAL CROSS SECTION	0	0			
AEE-S-065	STRUCTURAL - OTAHUHU CREEK - PLAN AND LONG SECTION	0	0			
AEE-S-066	STRUCTURAL - OTAHUHU CREEK - TYPICAL CROSS SECTION	0	0			
AEE-S-071	STRUCTURAL - PRINCES STREET OVERBRIDGE - PLAN AND LONG SECTION	0	0			
AEE-S-072	STRUCTURAL - PRINCES STREET OVERBRIDGE - TYPICAL CROSS SECTION	0	0			
AEE-S-081	STRUCTURAL - GREAT SOUTH ROAD RAIL OVERBRIDGE WIDENING - PLAN AND CROSS SECTION	1	0	1		



STRUCTURAL PLANS, REFER DRAWINGS AEE-S-010 TO AEE-S-081

FOR CONSENT

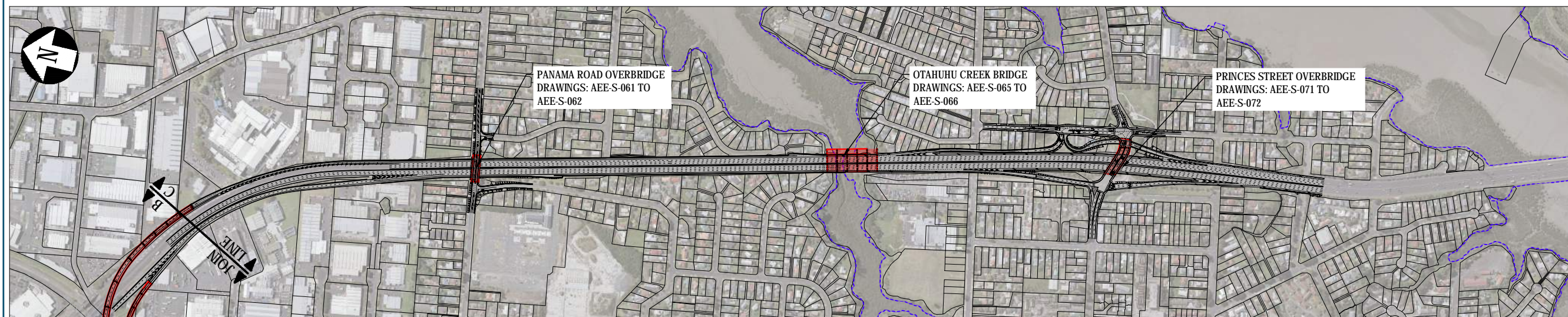
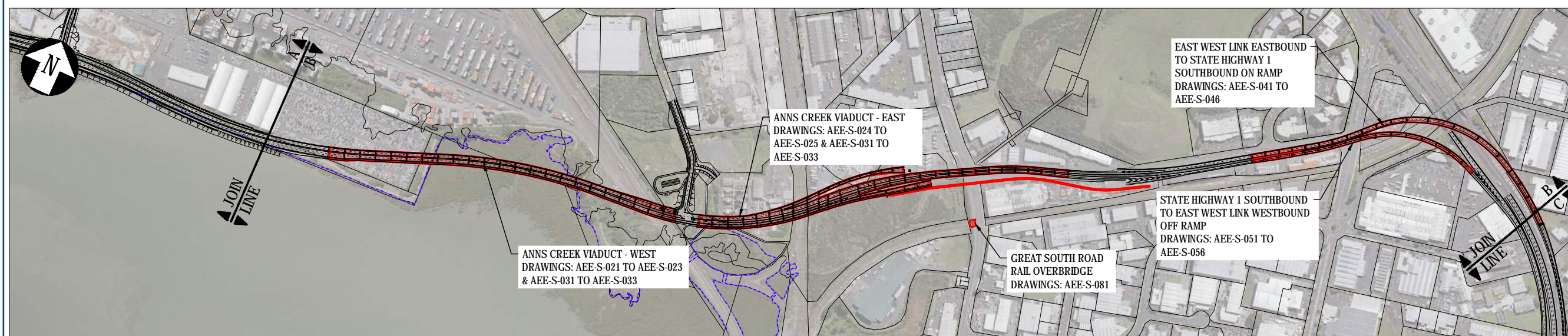
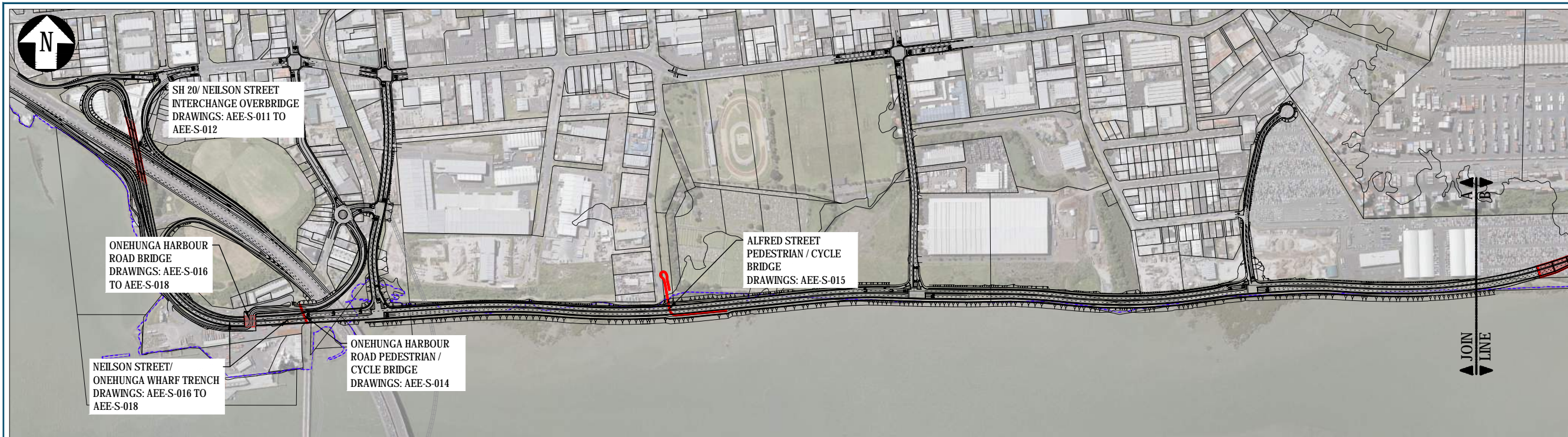
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1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	JM	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL EAST WEST LINK DRAWING INDEX, NOTES AND LEGEND		
Drawing Number	AEE-S-001		
Rev No.	1		



No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

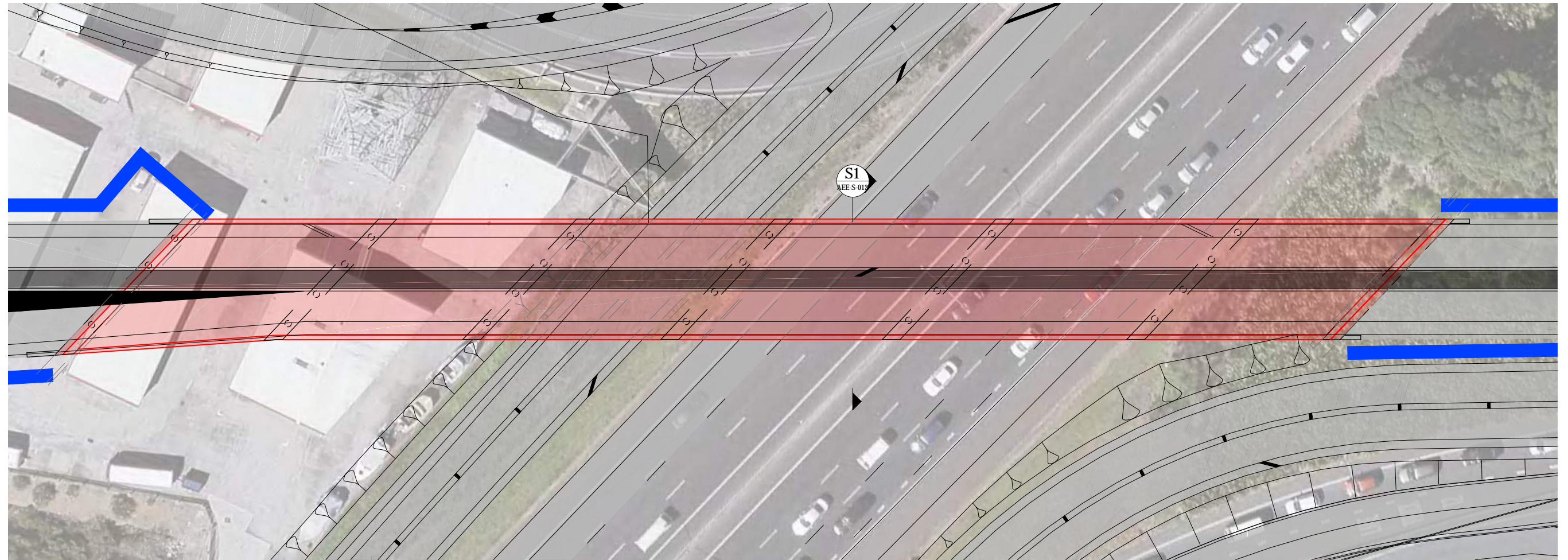
DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	NOT TO SCALE	Contract No	PA4014		

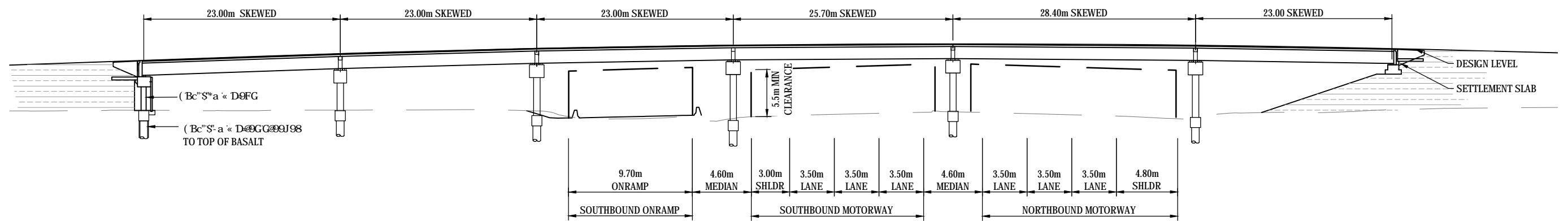
Drawing Title	STRUCTURAL KEY PLAN	
Drawing Number	AEE-S-010	Rev No. 1

FOR CONSENT



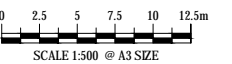
PLAN

SCALE 1:500 @ A3



LONG SECTION

SCALE 1:500 @ A3



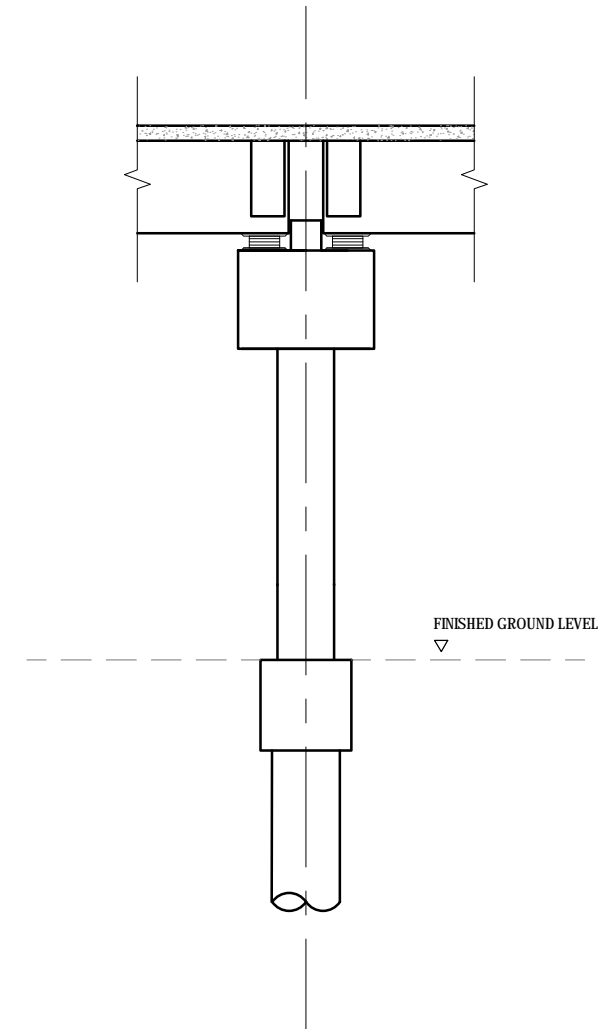
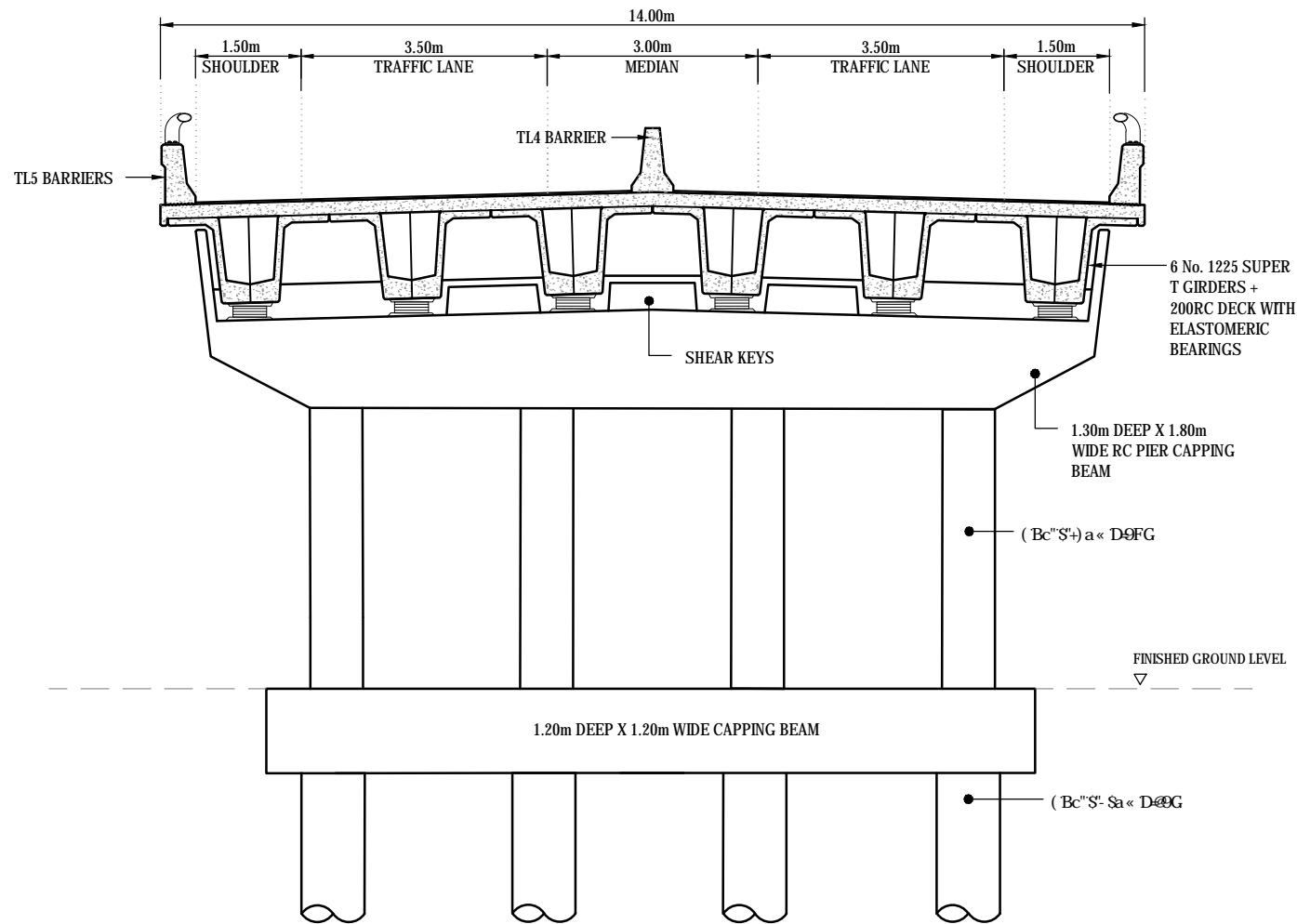
FOR CONSENT

0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
 This drawing is prepared under the Resource Management Act 1991 (RMA) for resource consent and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS	Reviewed	N NANCEKIVELL	Approved	P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL SH20/NEILSON ST INTERCHANGE OVERBRIDGE PLAN AND LONG SECTION		
Drawing Number	AEE-S-011		
Rev No.	0		



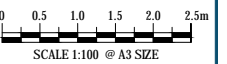
S1
AEE-S-011

TYPICAL CROSS SECTION
SH20/ NEILSON STREET INTERCHANGE OVERBRIDGE

SCALE 1:100 @ A3

SECTION ALONG PIER

SCALE 1:100 @ A3



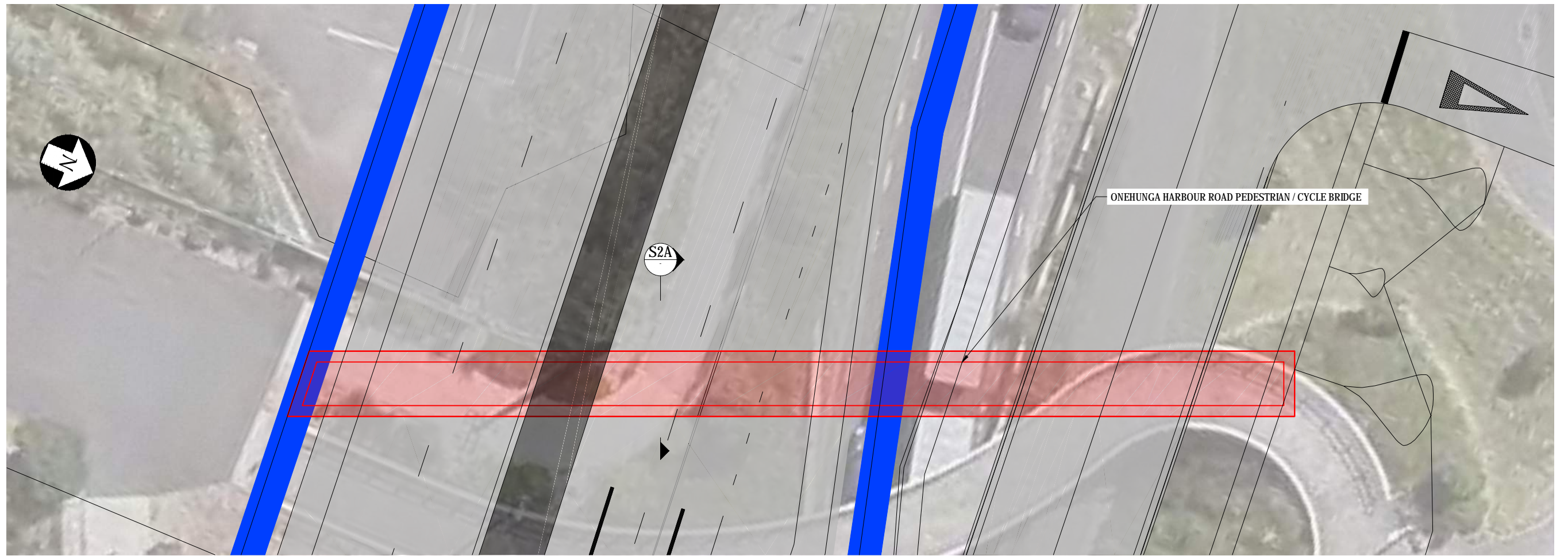
FOR CONSENT

0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
This drawing is prepared under the Resource Management Act 1991 (RMA) for resource consents and designations. It is not to be used for construction. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

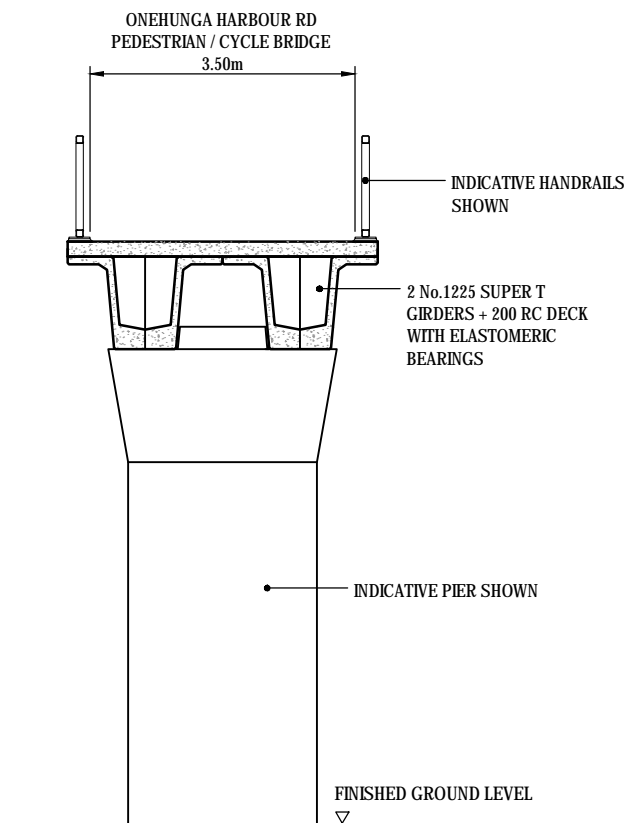
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL SH20/NEILSON ST INTERCHANGE OVERBRIDGE TYPICAL CROSS SECTION	Rev No. 0
Drawing Number AEE-S-012	



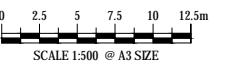
PLAN

SCALE 1:500 @ A3



SECTION - ONEHUNGA HARBOUR ROAD PEDESTRIAN / CYCLE BRIDGE

SCALE 1:100 @ A3



FOR CONSENT

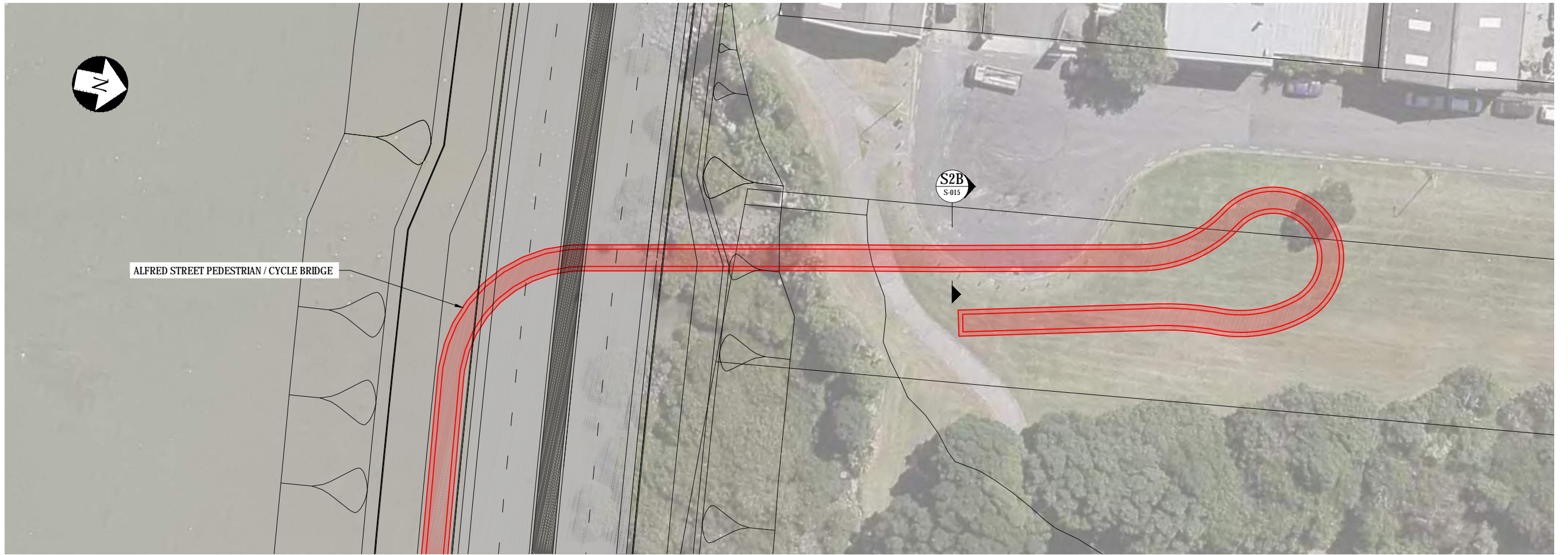
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
 Hāwhiri te itahi i te wāhi o te iwi Māori
 under the RMA for resource consents and designations.
 5* 7* 8* 9* 10* 11* 12* 13* 14* 15* 16* 17* 18* 19* 20*
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will
 prevail. This Drawing must not be used for construction



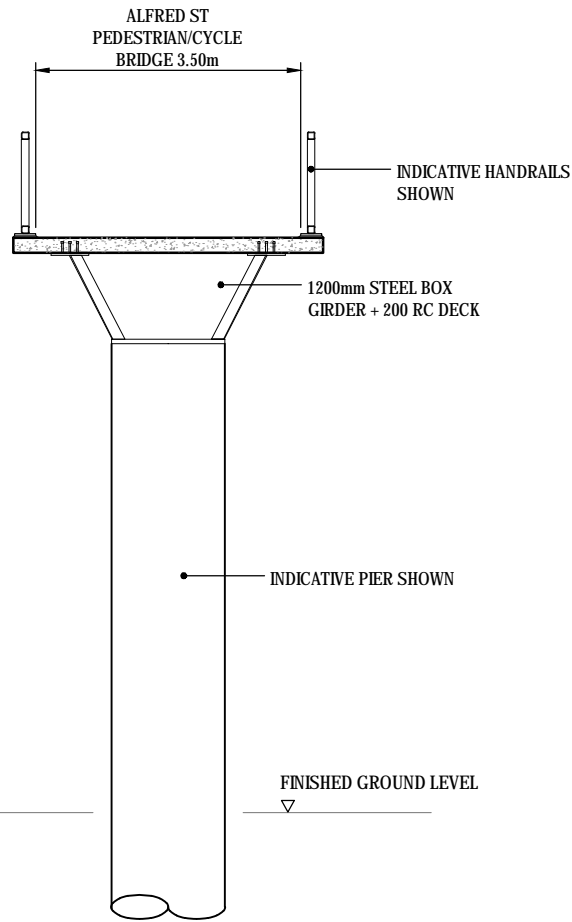
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL ONEHUNGA HARBOUR ROAD PEDESTRIAN / CYCLE BRIDGE - PLAN AND CROSS SECTION	Drawing Number AEE-S-014	Rev No. 0
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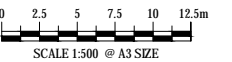
PLAN

SCALE 1:500 @ A3



S2B SECTION - ALFRED STREET PEDESTRIAN / CYCLE BRIDGE

SCALE 1 : 100 @ A3



FOR CONSENT

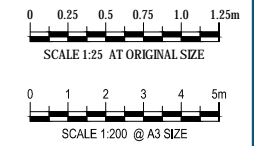
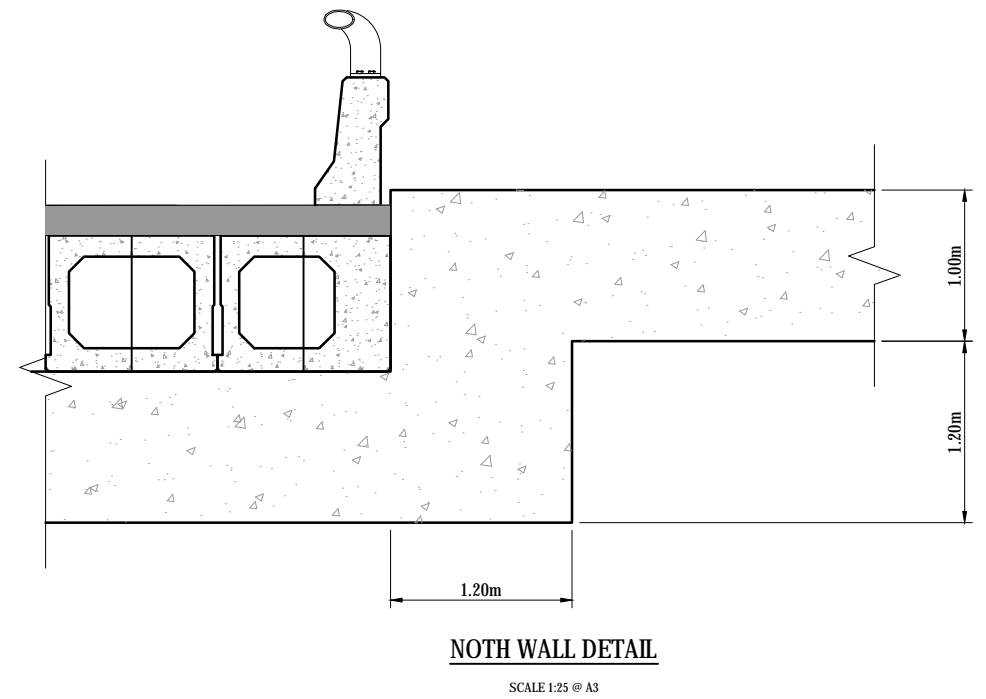
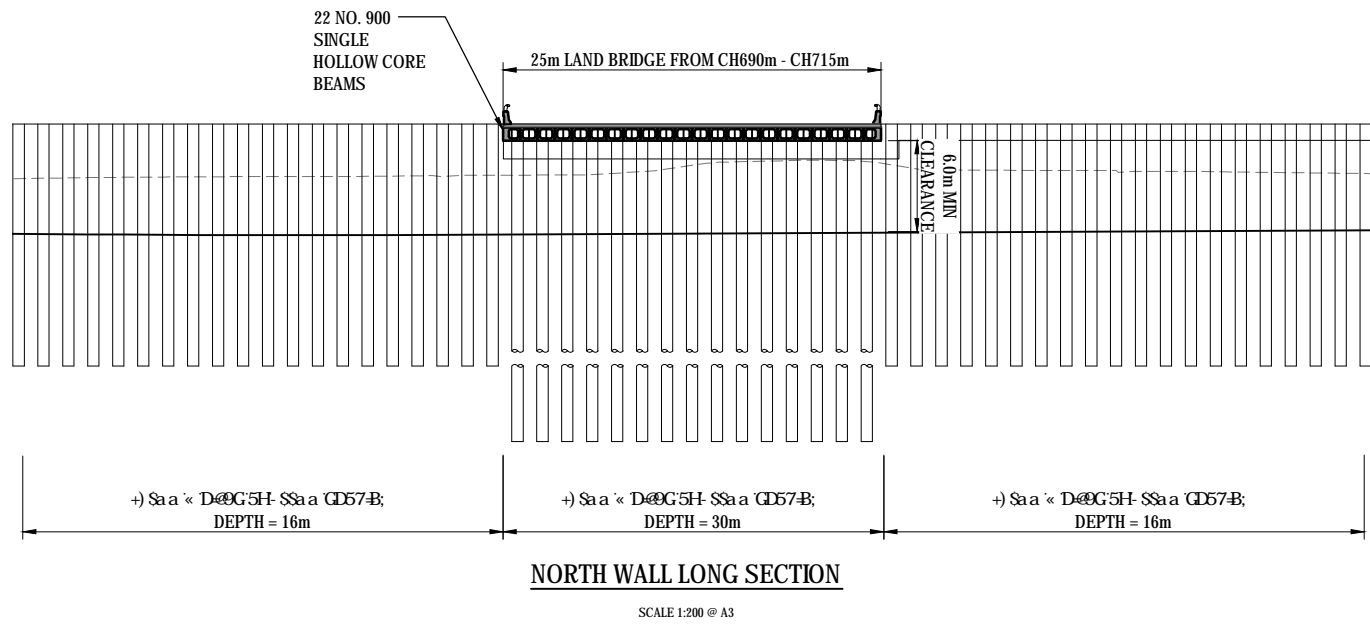
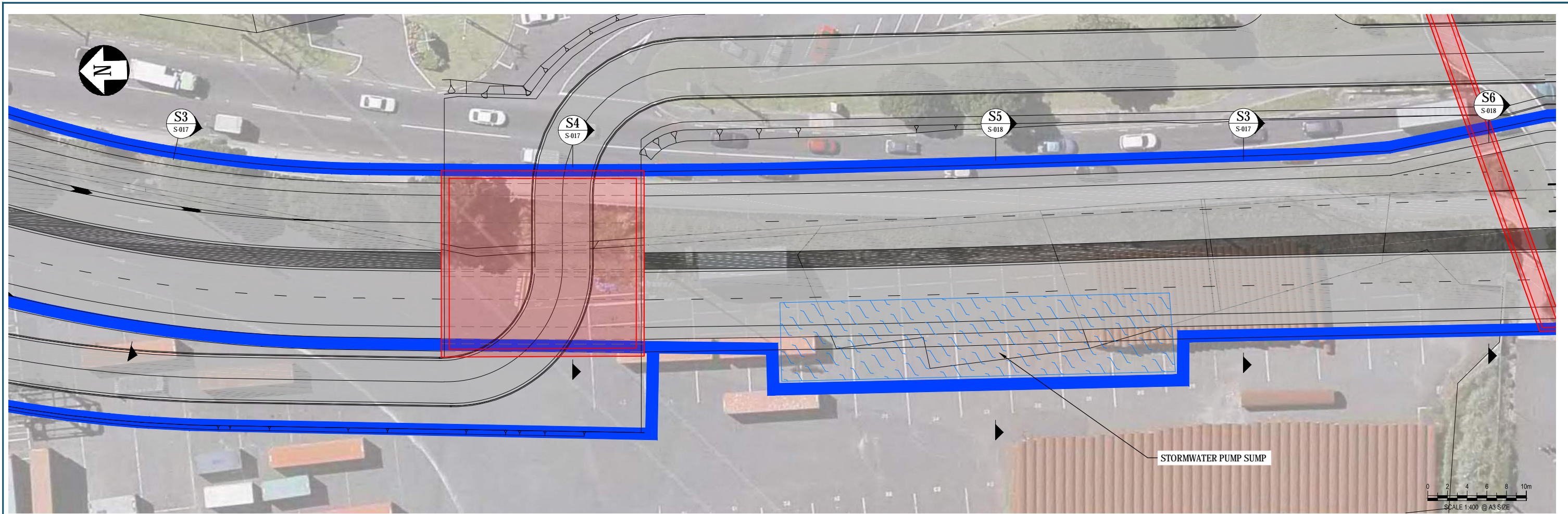
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te itinga o te ao, ko te ao māori me te ao Māori e kōwhiri ana i te huarua o te ao. Hei tāwhiri i te huarua o te ao, ko te ao māori me te ao Māori e kōwhiri ana i te huarua o te ao. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	P KELLY
Designed	O LUMB	Design Check	I BILLINGS		1/12/16		1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	STRUCTURAL ALFRED STREET PEDESTRIAN / CYCLE BRIDGE PLAN AND CROSS SECTION			
Drawing Number	AEE-S-015		Rev No.	0



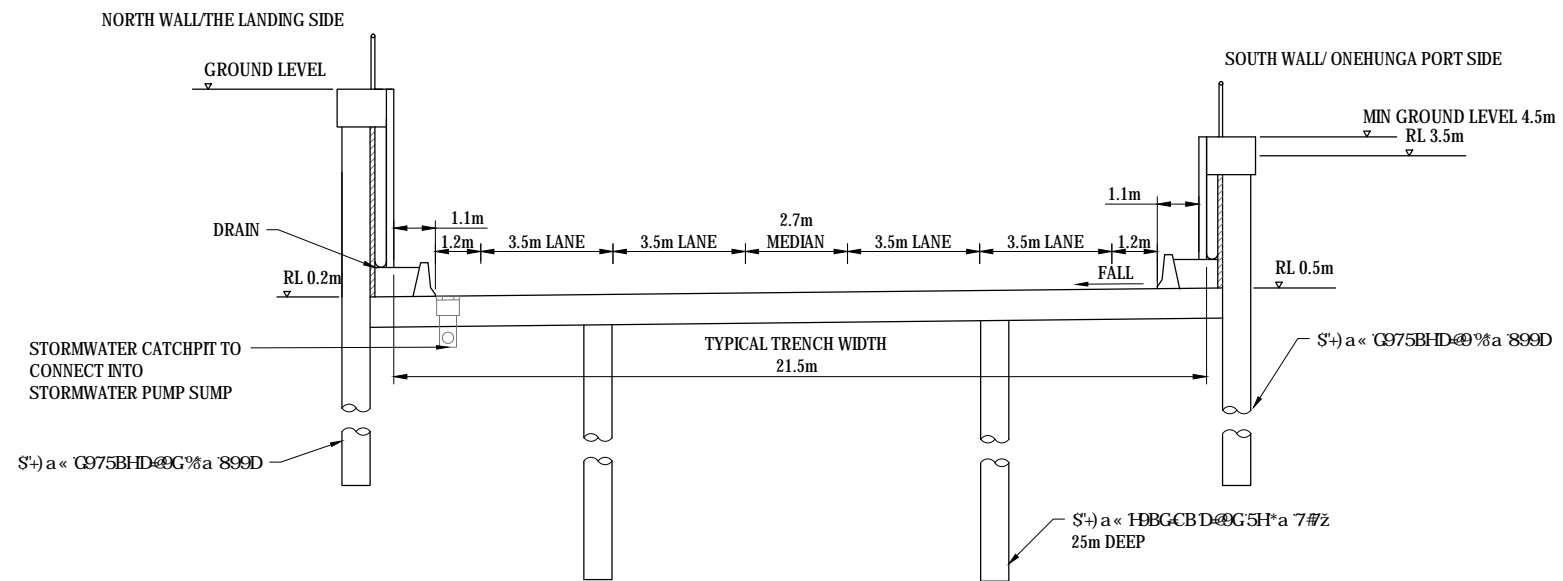
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

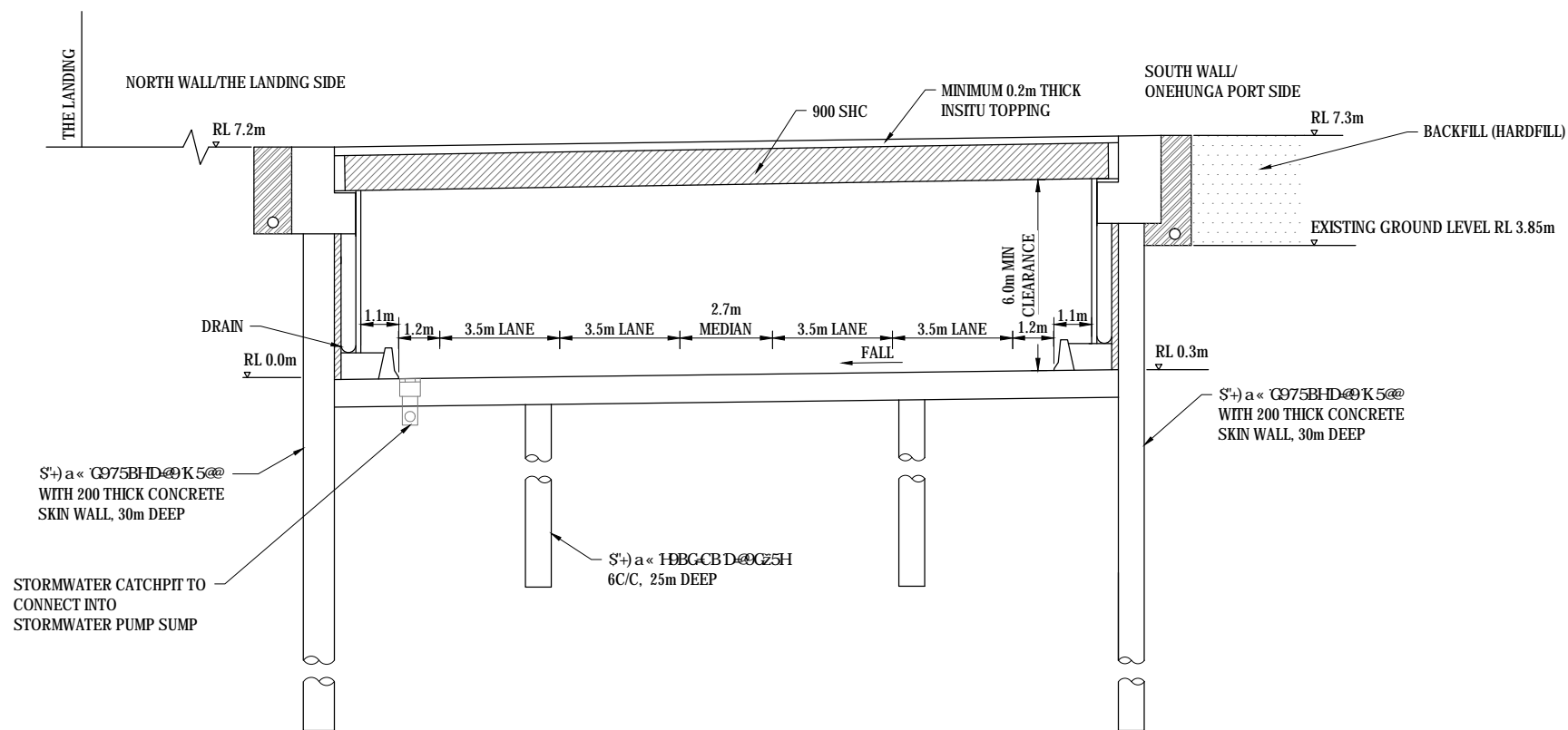
Drawing Title STRUCTURAL NEILSON STREET/ ONEHUNGA WHARF TRENCH PLAN AND LONG SECTION	Drawing Number AEE-S-016	Rev No. 0
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S3
S-016 EWL TRENCH - TYPICAL SECTION
SCALE 1 : 200 @ A3

NOTE:

1. TEMPORARY PROPS WILL BE REQUIRED DURING CONSTRUCTION.
2. THIS STRUCTURE TYPE APPLIES FROM CH580 TO CH690, CH715 TO CH750 AND CH800 TO CH920



S4
S-016 EWL TRENCH - BRIDGE SECTION
SCALE 1 : 200 @ A3

NOTE:

1. TEMPORARY PROPS WILL BE REQUIRED DURING CONSTRUCTION.
2. THIS STRUCTURE TYPE APPLIES FROM CH690 TO CH715



FOR CONSENT

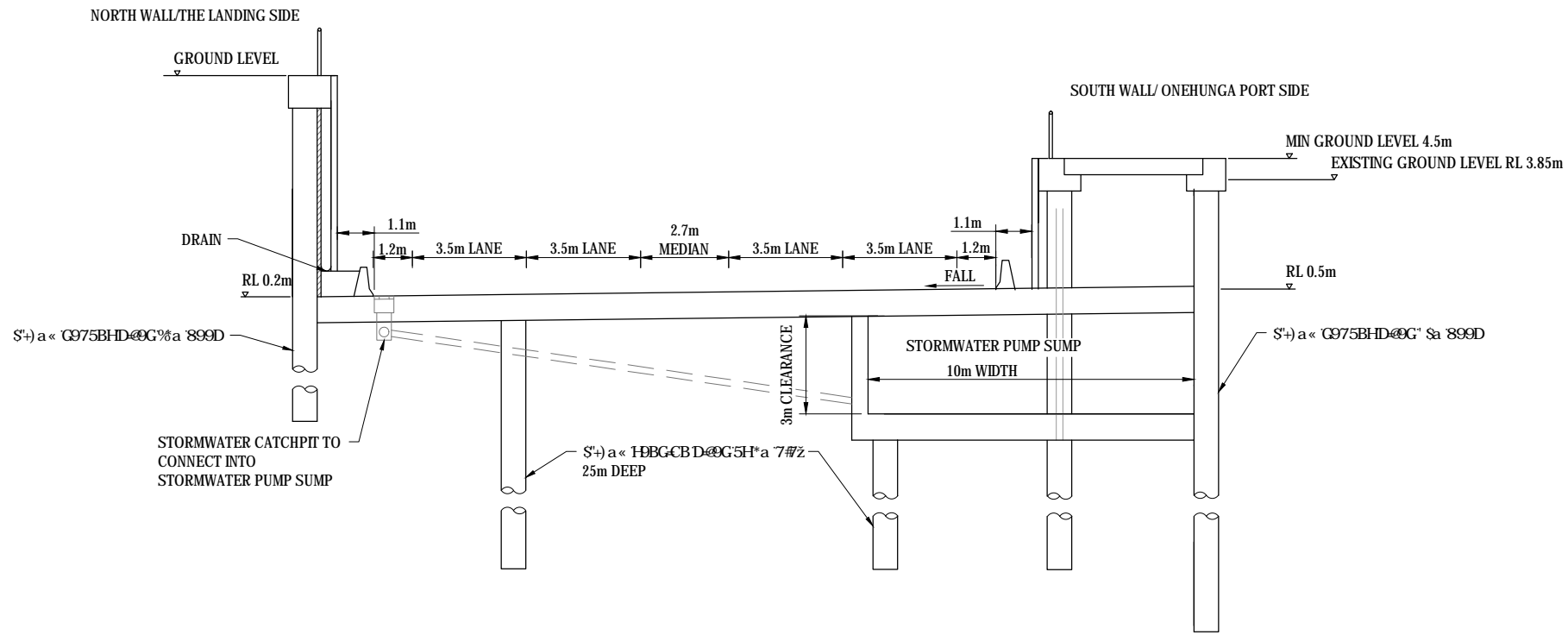
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is prepared under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



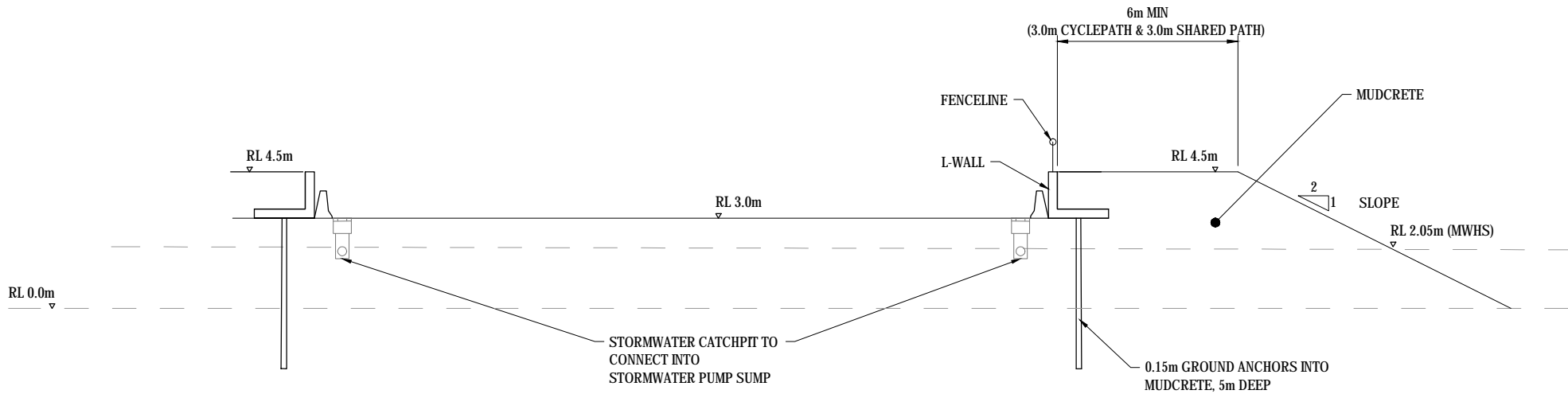
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL NEILSON STREET/ ONEHUNGA WHARF TRENCH TYPICAL CROSS SECTIONS - SHEET 1		
Drawing Number	S-017	Rev No.	0



S5 EWL TRENCH - SUMP SECTION
S-016 SCALE 1 : 200 @ A3

NOTE:
 1. TEMPORARY PROPS WILL BE REQUIRED DURING CONSTRUCTION.
 2. THIS STRUCTURE TYPE APPLIES FROM CH750 - CH800



S6 EWL TRENCH - MUDCRETE SECTION
S-016 SCALE 1 : 200 @ A3

NOTE:
 1. THIS STRUCTURE TYPE APPLIES FROM CH920 TO CH1060



FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te Ika a Māui... under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

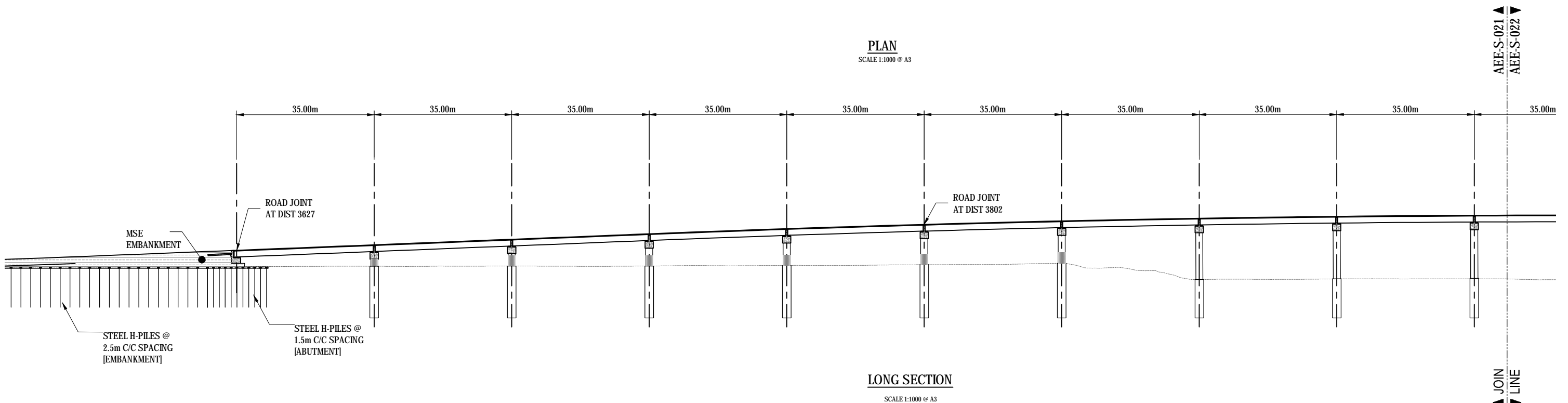


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL NEILSON STREET/ ONEHUNGA WHARF TRENCH TYPICAL CROSS SECTIONS - SHEET 2		
Drawing Number	S-018	Rev No.	0



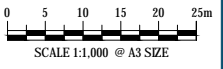
PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3

AEE-S-021
AEE-S-022

JOIN
LINE



SCALE 1:1,000 @ A3 SIZE

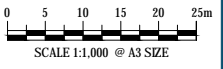
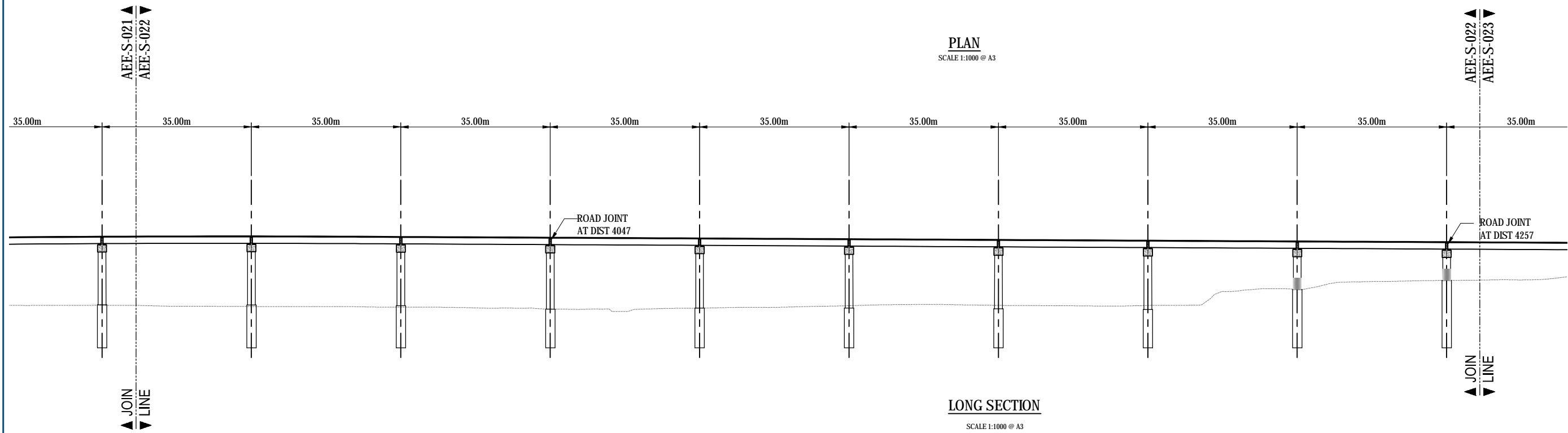
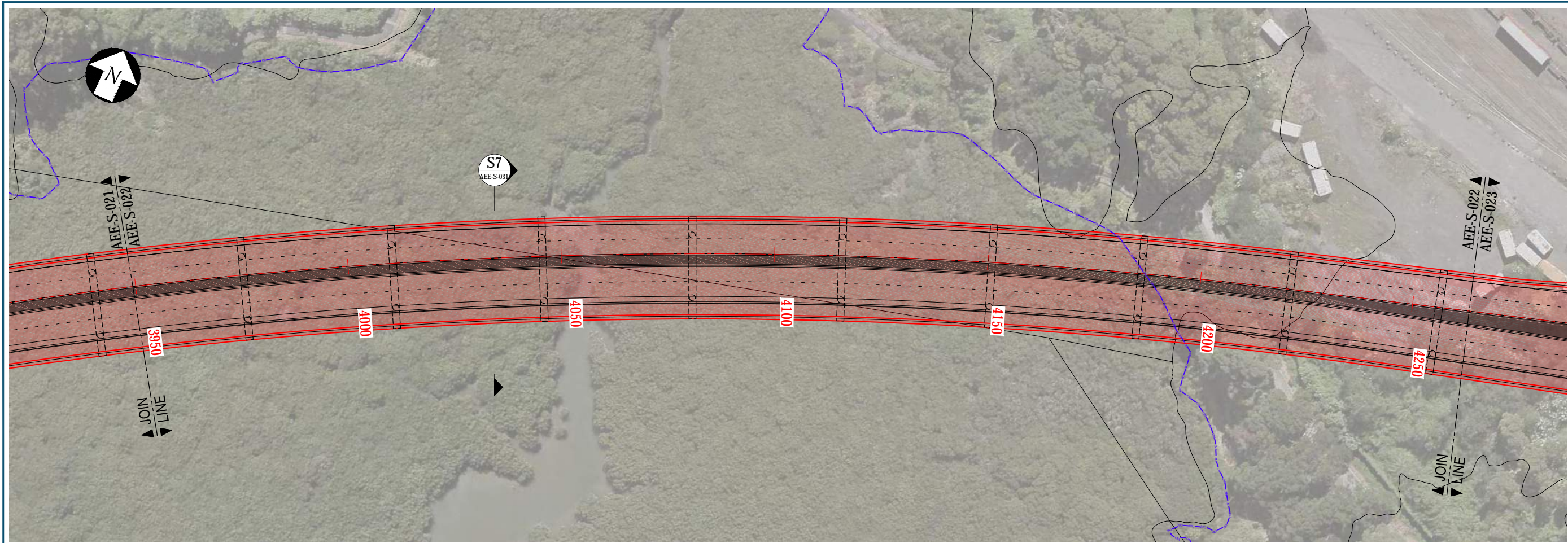
FOR CONSENT

0 ISSUED FOR CONSENT				
No.	Issued Status	Drawn	Check'd	Date
		AR	NN*	PK* 01/12/2016

DISCLAIMER
 Hāwhiri te Waiāpapa ki te Taiohi o Te Aroha
 under the RMA for resource consents and designations.
 5' ʻZfā Ujfbg'ckb jgʻ VwMz 7U'Xjg b'
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL ANNS CREEK VIADUCT - WEST PLAN AND LONG SECTION - SHEET 1	Drawing Number AEE-S-021	Rev No. 0
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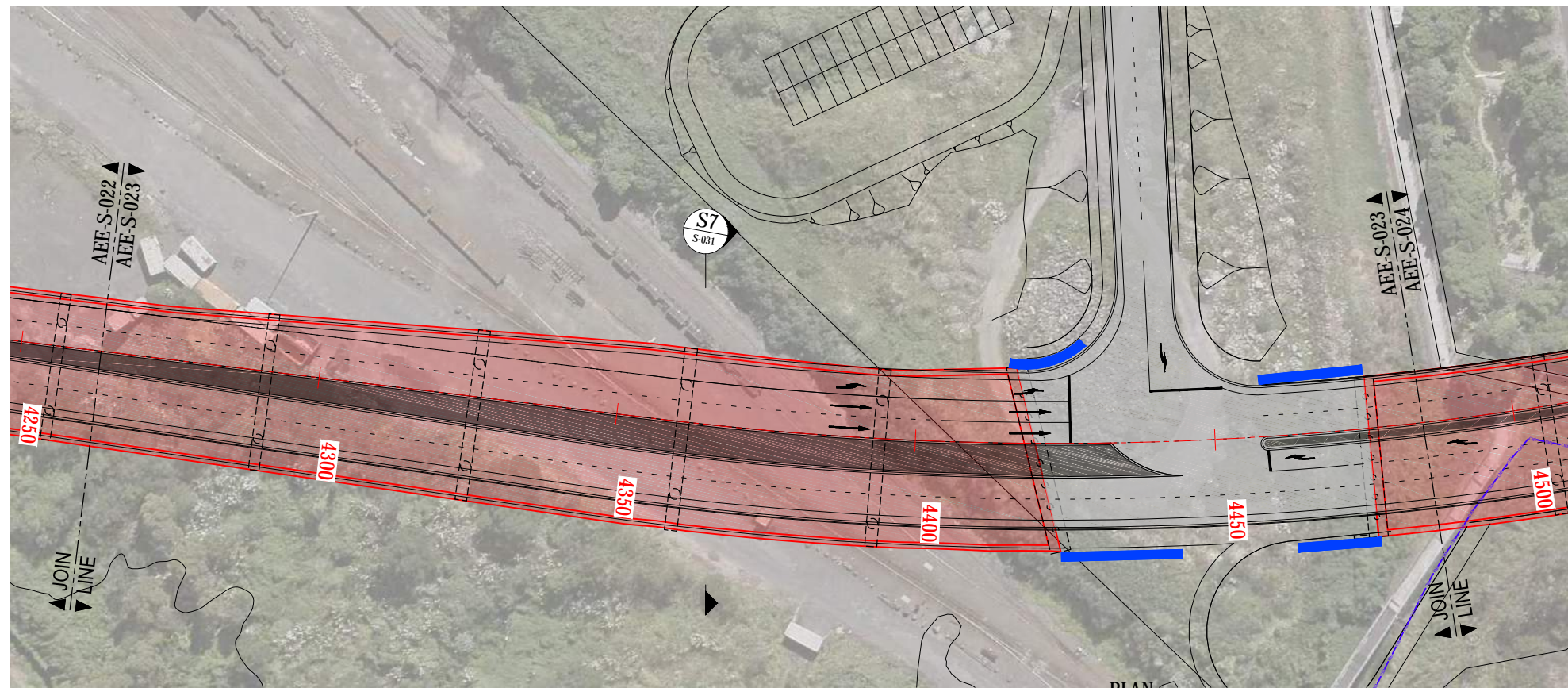
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
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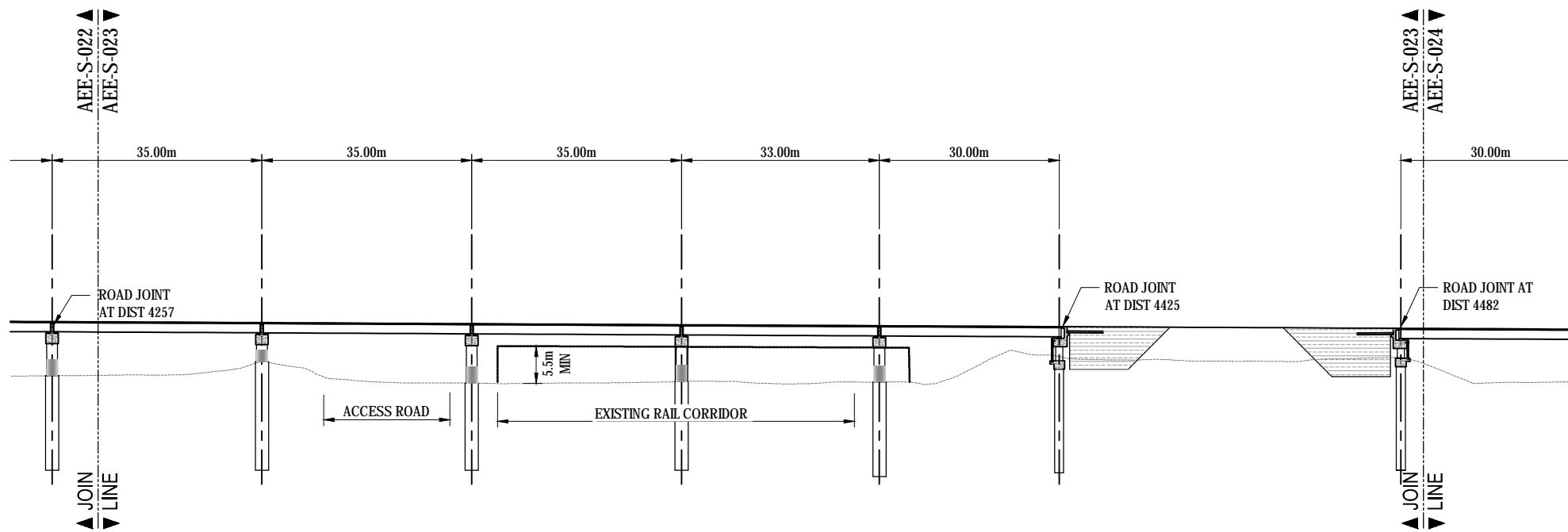
DISCLAIMER
 Hīkōwhiri i ngā tūhono kōwhiri ki te iwi mā te
 under the RMA for resource consents and designations.
 * 5' 7" i te aha Ujibg.ckb i gā VVMle 7U'Xig] b'
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will
 prevail. This Drawing must not be used for construction

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

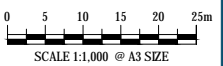
Drawing Title STRUCTURAL ANNS CREEK VIADUCT - WEST PLAN AND LONG SECTION - SHEET 2	Rev No. 0
Drawing Number AEE-S-022	



PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3



FOR CONSENT

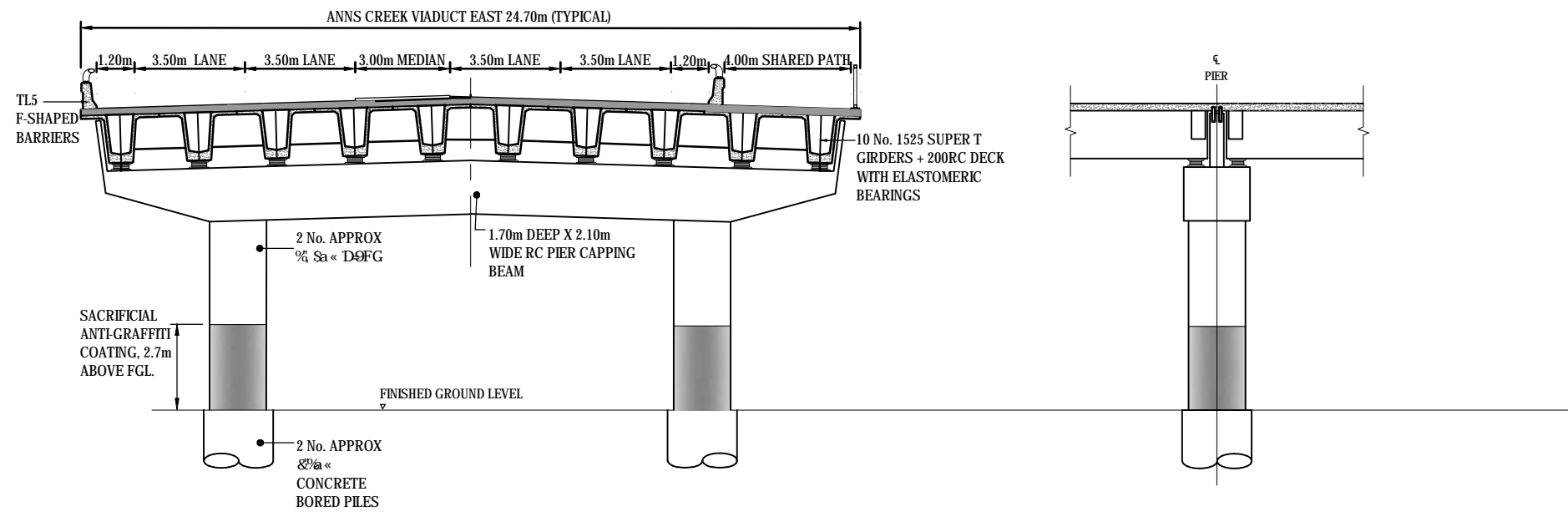
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
 Hāwhiri te itahi waka e hōmai i te mātauranga
 under the RMA for resource consents and designations.
 5 "kōwhiri te itahi waka e hōmai i te mātauranga"
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will
 prevail. This Drawing must not be used for construction



Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL ANNS CREEK VIADUCT - WEST PLAN AND LONG SECTION - SHEET 3		
Drawing Number	AEE-S-023	Rev No.	0



S7 SECTION - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION

AEE-S-021, S-022, S-023, S-024, S-025

SCALE 1:200 @ A3

LONGSECTION AT PIER

SCALE 1:200 @ A3



FOR CONSENT

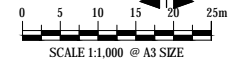
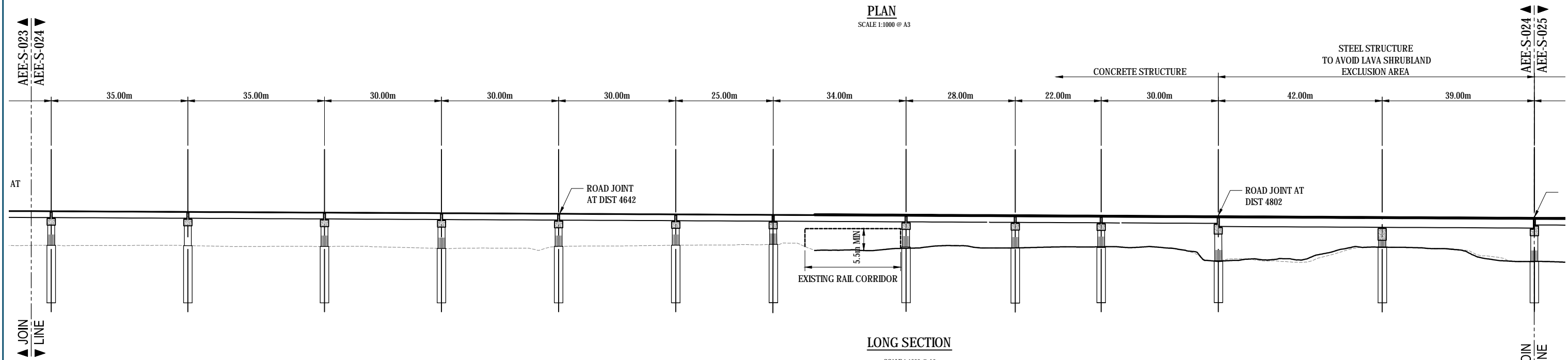
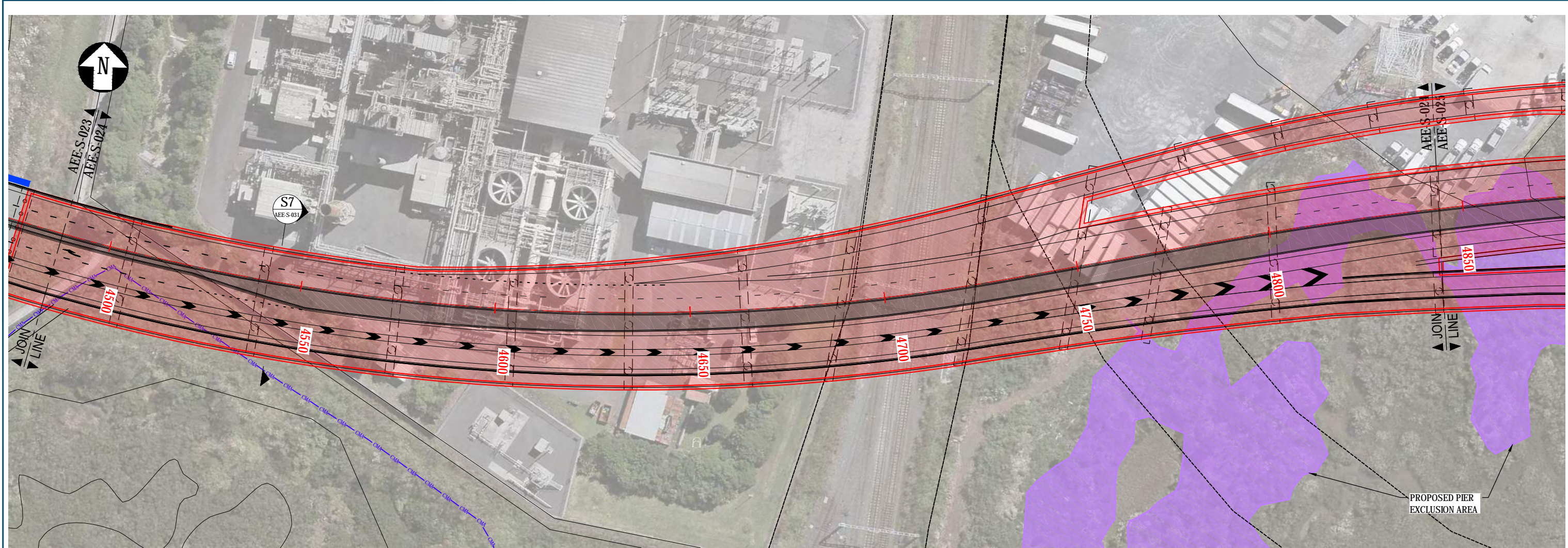
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te ika a Māui... under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	P KELLY
Designed	O LUMB	Design Check	I BILLINGS	1/12/16	1/12/16	Contract No. PA4014	
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN				

Drawing Title:	STRUCTURAL ANNS CREEK VIADUCT TYPICAL CROSS SECTION - SHEET 1	
Drawing Number:	AEE-S-031	Rev No. 0



No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

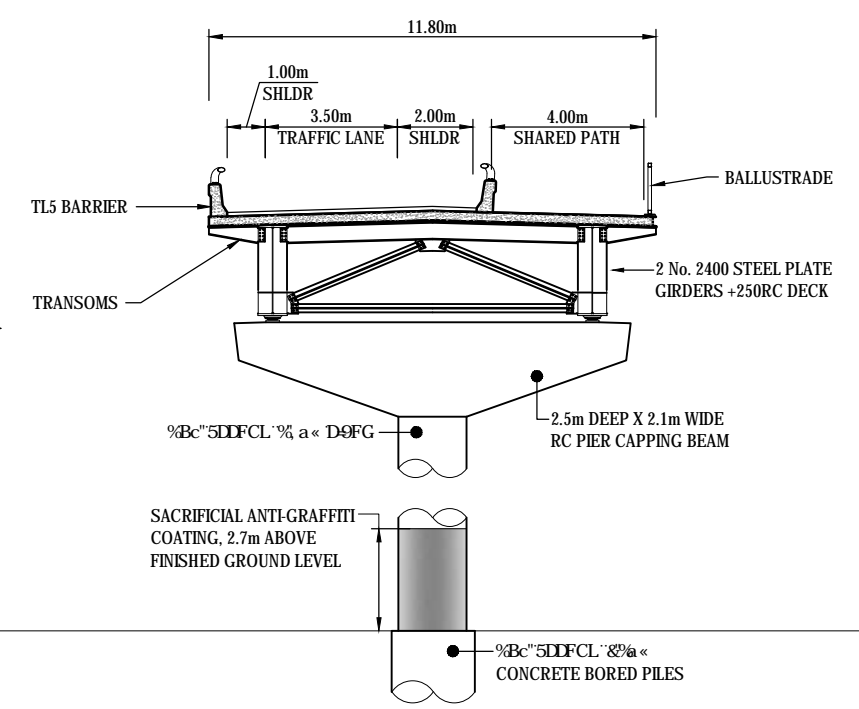
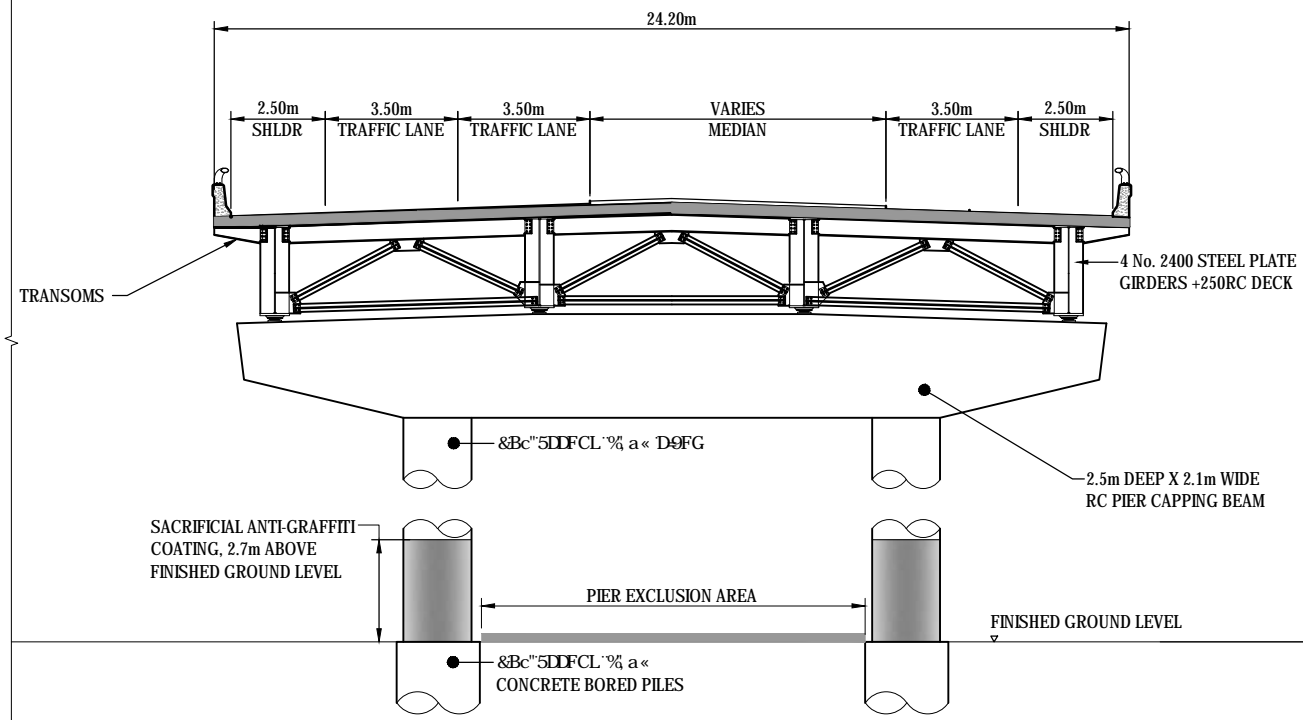
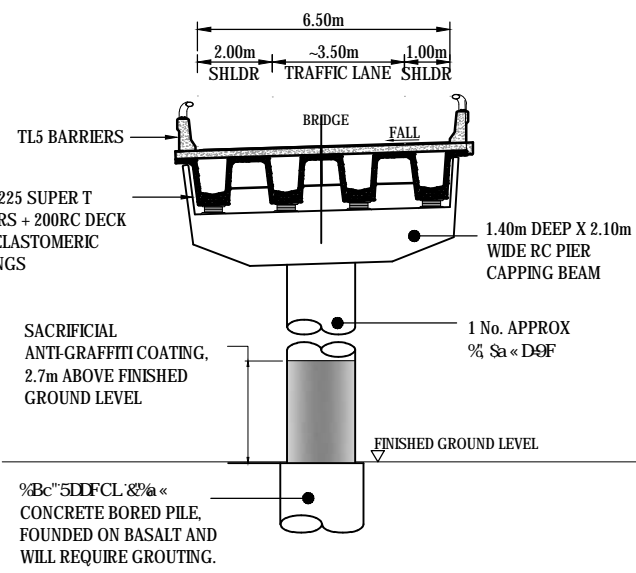
DISCLAIMER
 Hāwhiri te itinga i te wā o te hāwhiri...
 under the RMA for resource consents and designations.
 5' b'zfa Ufbg'ckb l'g'g V'W'W'c Z'U'X'g'g b'
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



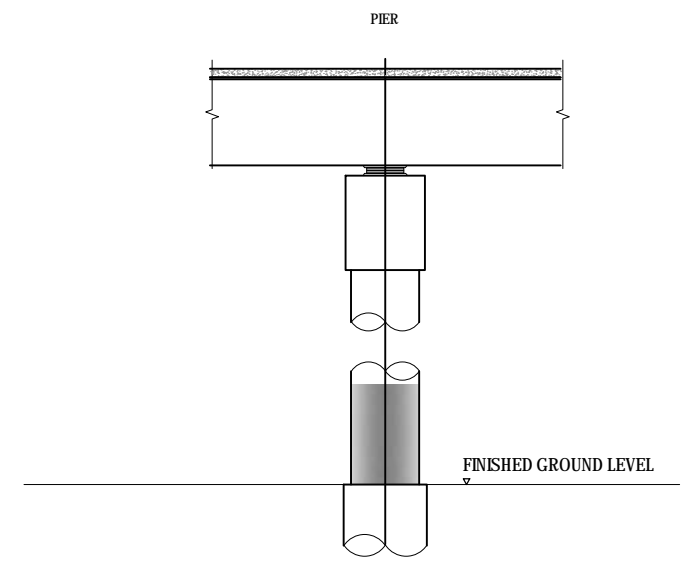
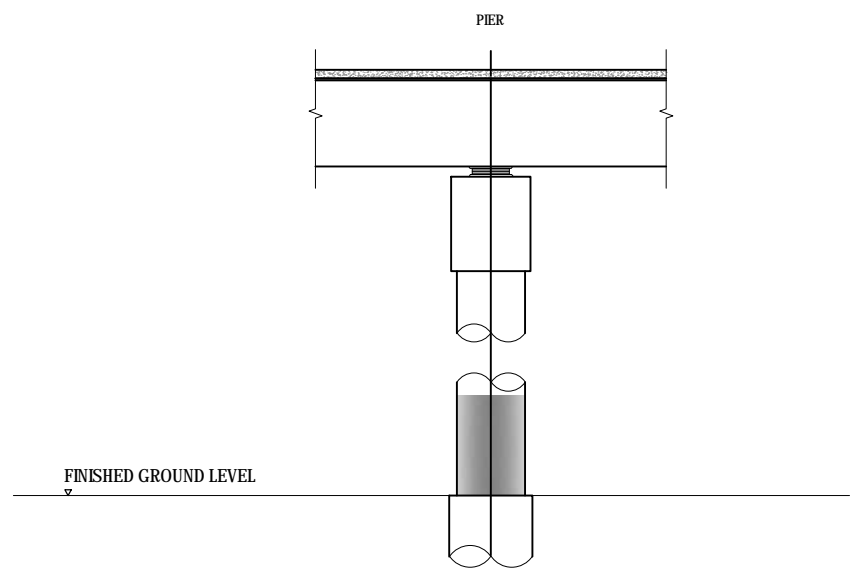
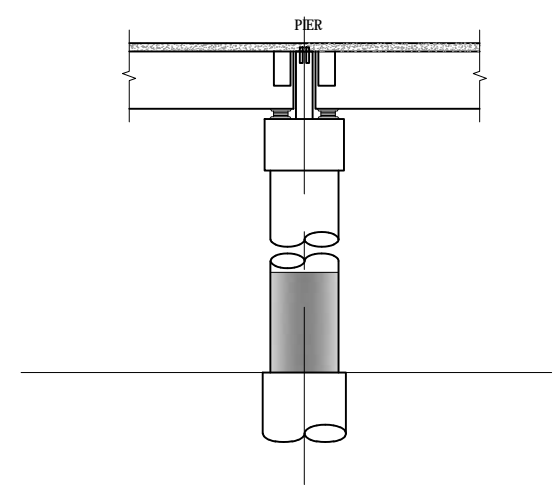
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Designed	O LUMB	Design Check	I BILLINGS		1/12/16		1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STRUCTURAL ANNS CREEK VIADUCT - EAST PLAN AND LONG SECTION - SHEET 4		
Drawing Number	AEE-S-024	Rev No.	1

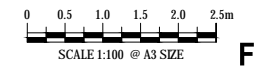
FOR CONSENT



S8 SECTION - ANNS CREEK EAST VIADUCT - MAXIMUM CROSS SECTION
SCALE 1:200 @ A3



LONGSECTION AT PIER
SCALE 1:100 @ A3



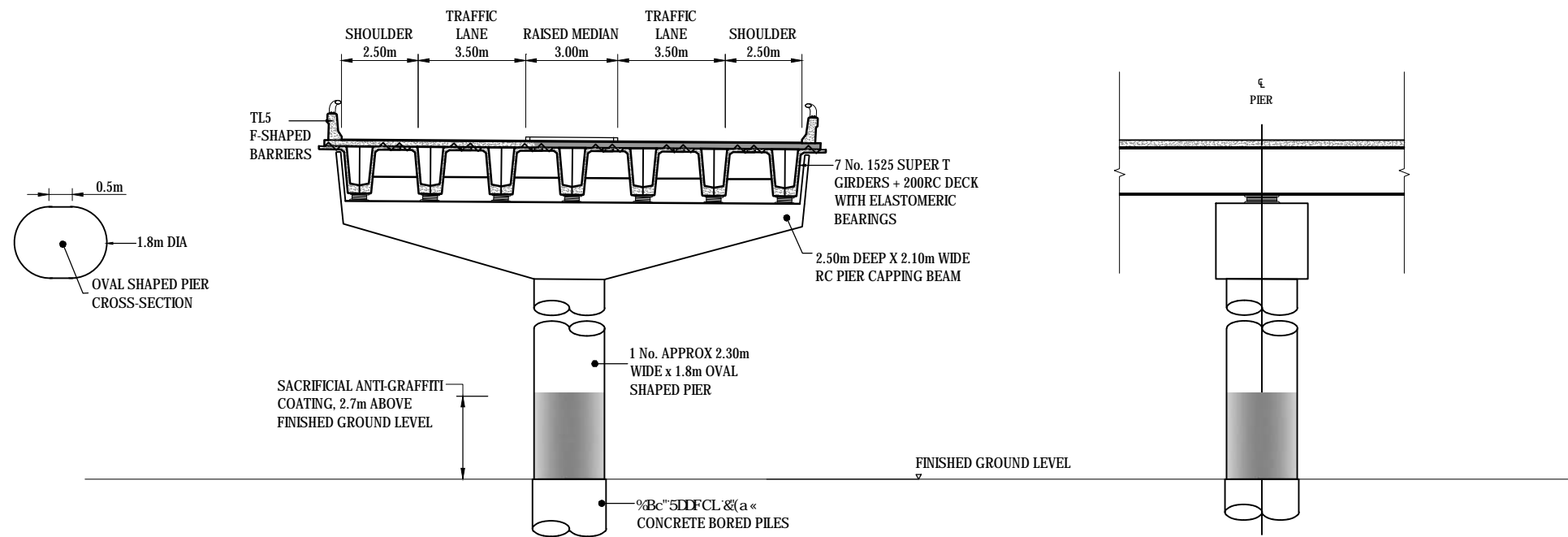
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	RB	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for resource consent and designations under the Resource Management Act 1991. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL ANNS CREEK VIADUCT TYPICAL CROSS SECTION - CONCRETE - SHEET 2	Drawing Number AEE-S-032	Rev No. 1
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S9 SECTION - ANNS CREEK EAST STEEL VIADUCT - OUTRIGGER PIER CROSS SECTION
AEE-S-025

SCALE 1:200 @ A3

LONGSECTION AT PIER

SCALE 1:200 @ A3



FOR CONSENT

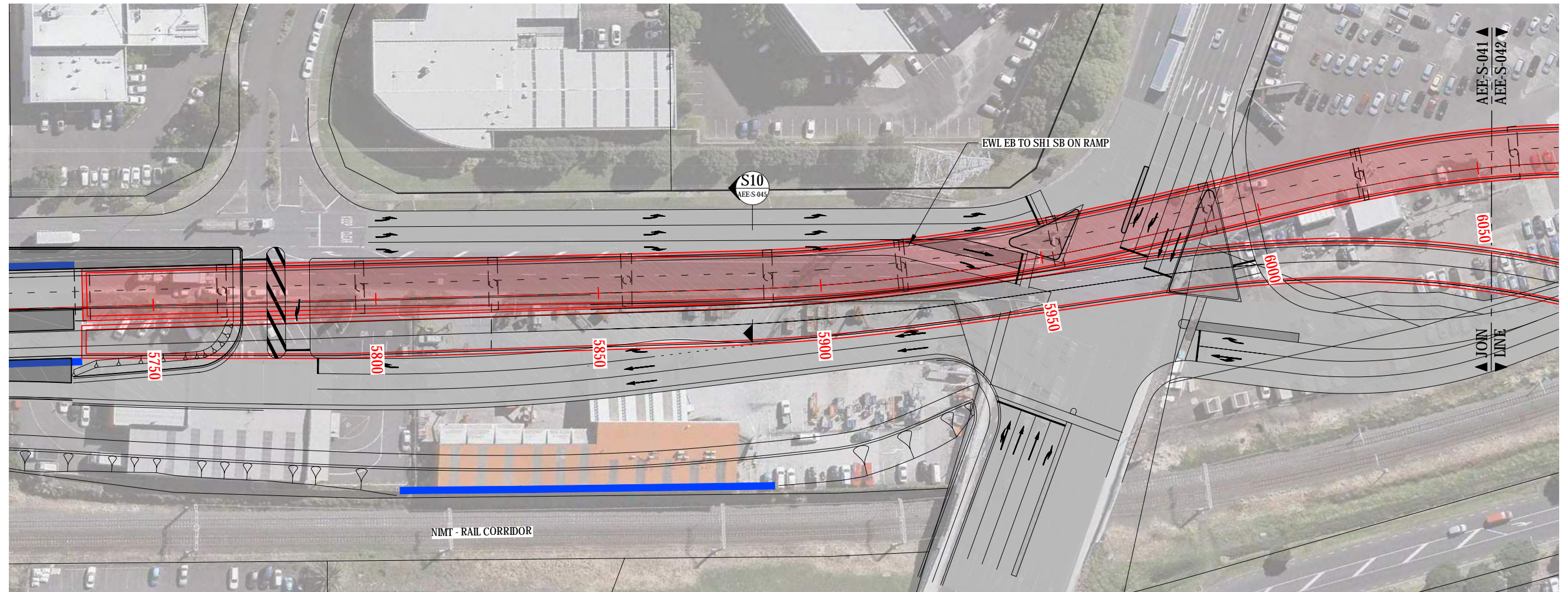
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te ika a Māui... under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

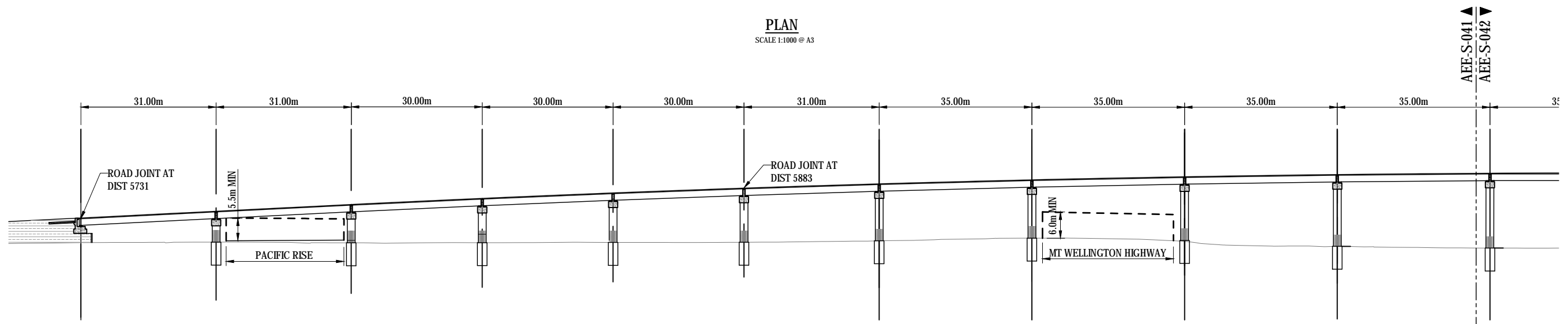


Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

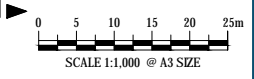
Drawing Title STRUCTURAL ANNS CREEK VIADUCT TYPICAL CROSS SECTION - STEEL - SHEET 3	Drawing Number AEE-S-033	Rev No. 1
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PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3



No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

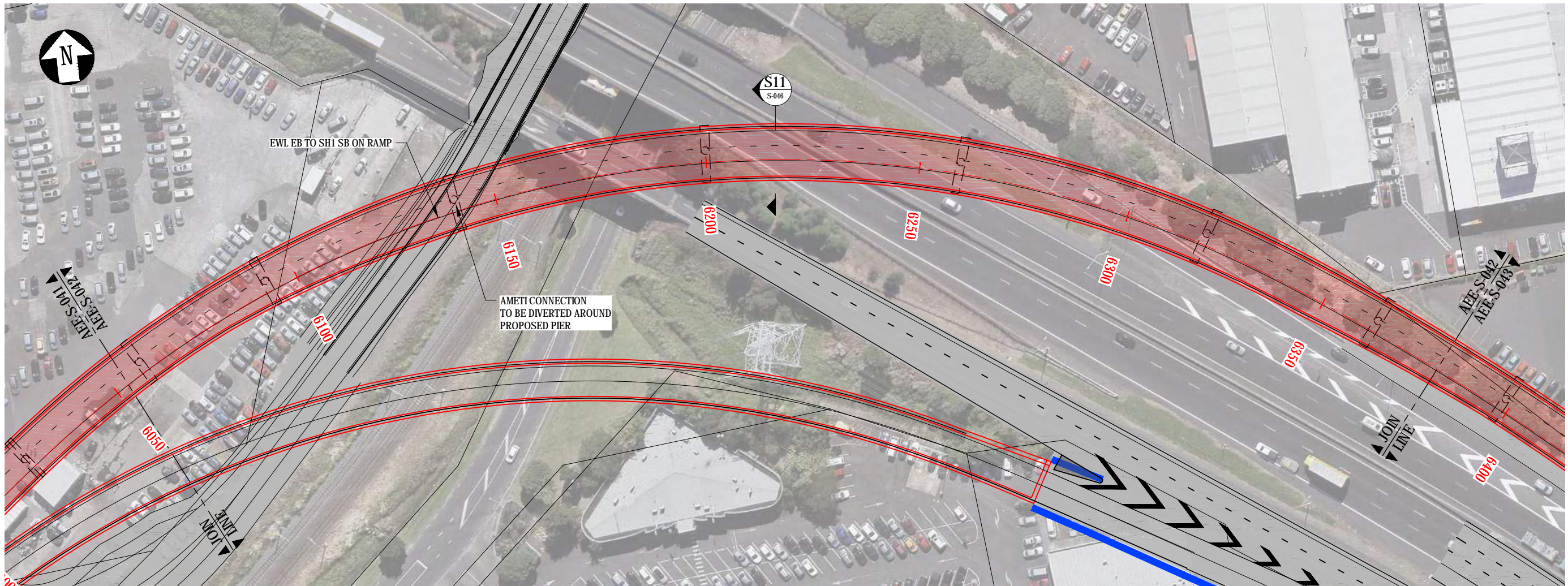
DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



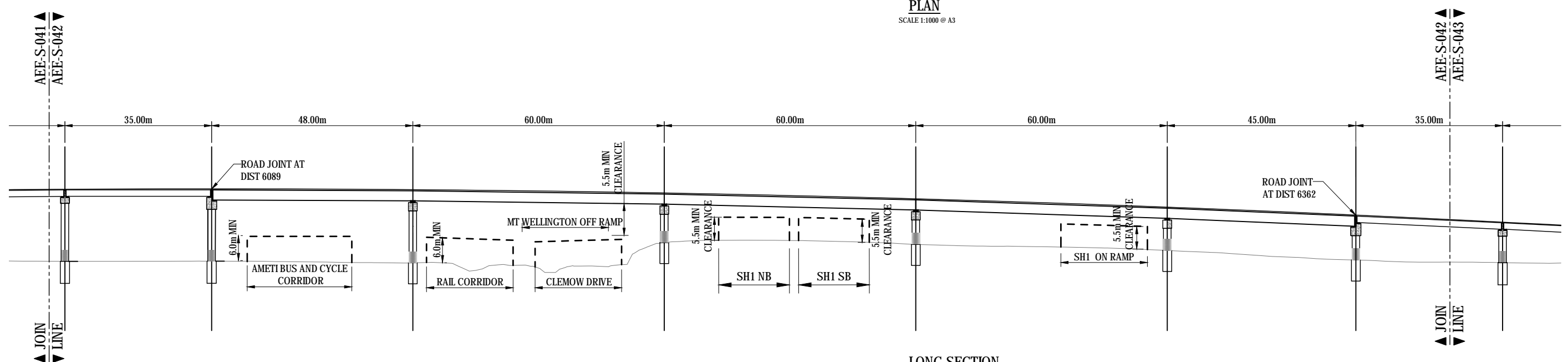
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 1	Rev No. 1
Drawing Number AEE-S-041	

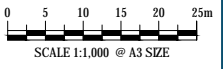
FOR CONSENT



PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3



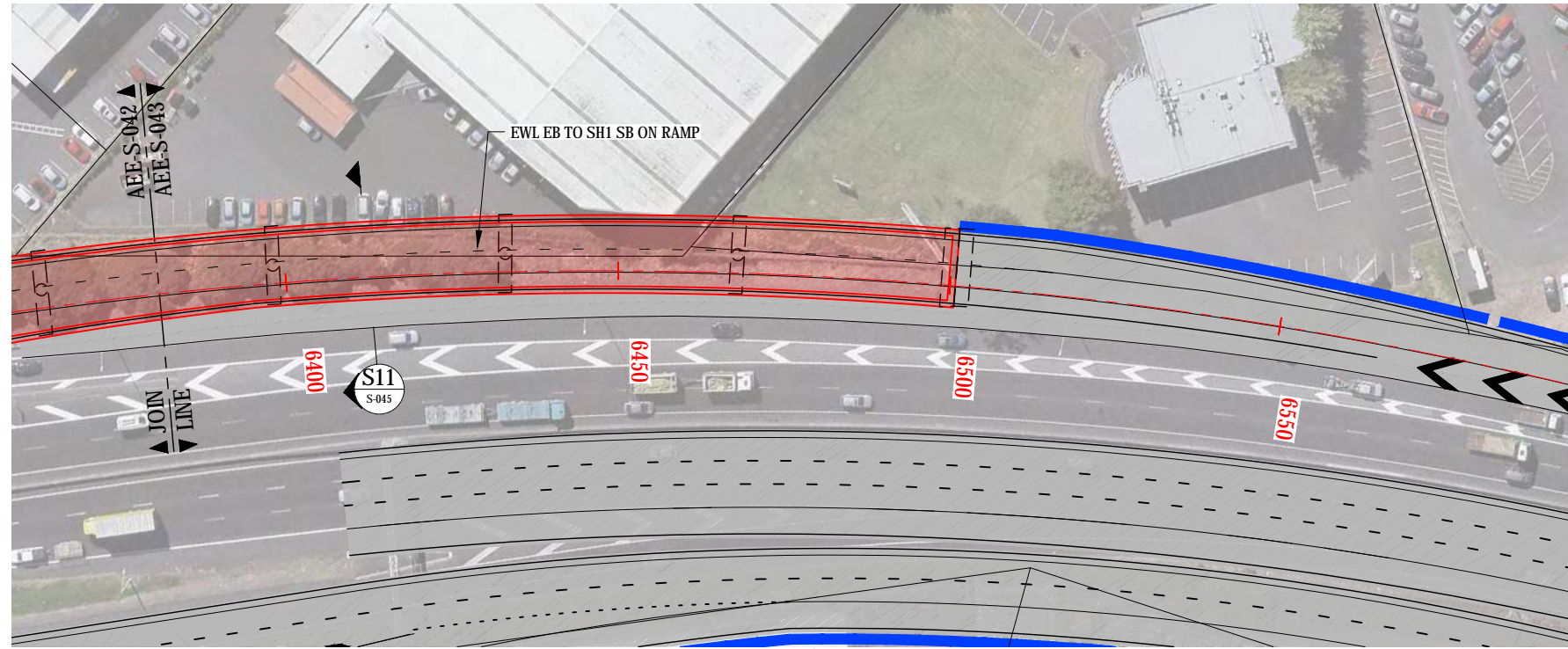
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

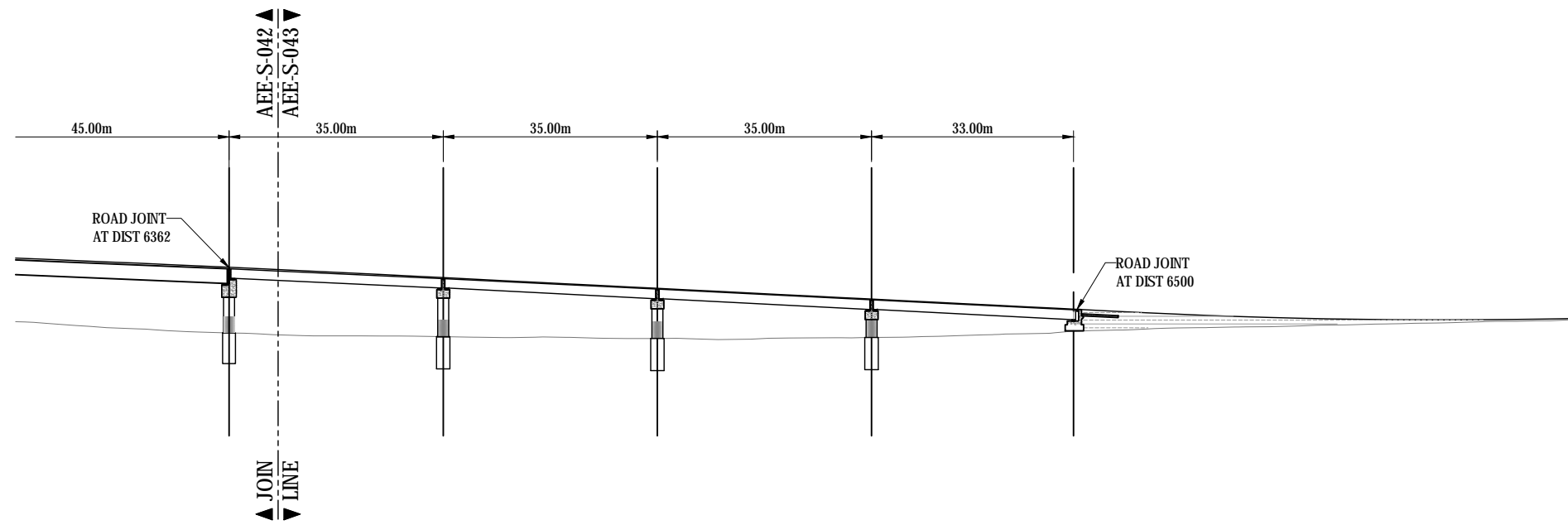
DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

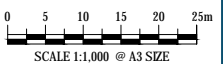
Drawing Title STRUCTURAL EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 2	Rev No. 0
Drawing Number AEE-S-042	



PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3



FOR CONSENT

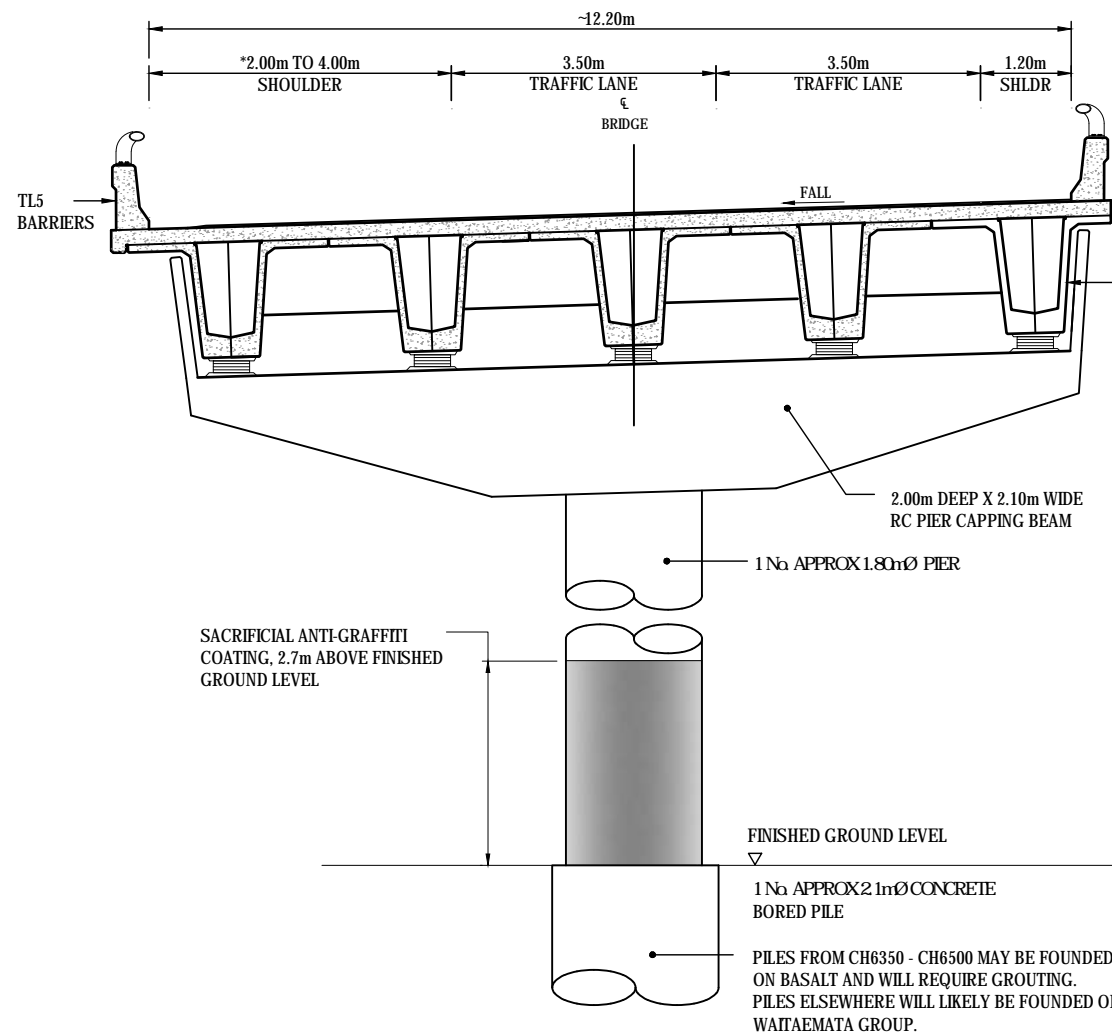
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DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 3	Drawing Number AEE-S-043	Rev No. 1
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5 No. 1525 SUPER T GIRDERS
+200RC DECK WITH ELASTOMERIC BEARINGS

2.00m DEEP X 2.10m WIDE RC PIER CAPPING BEAM

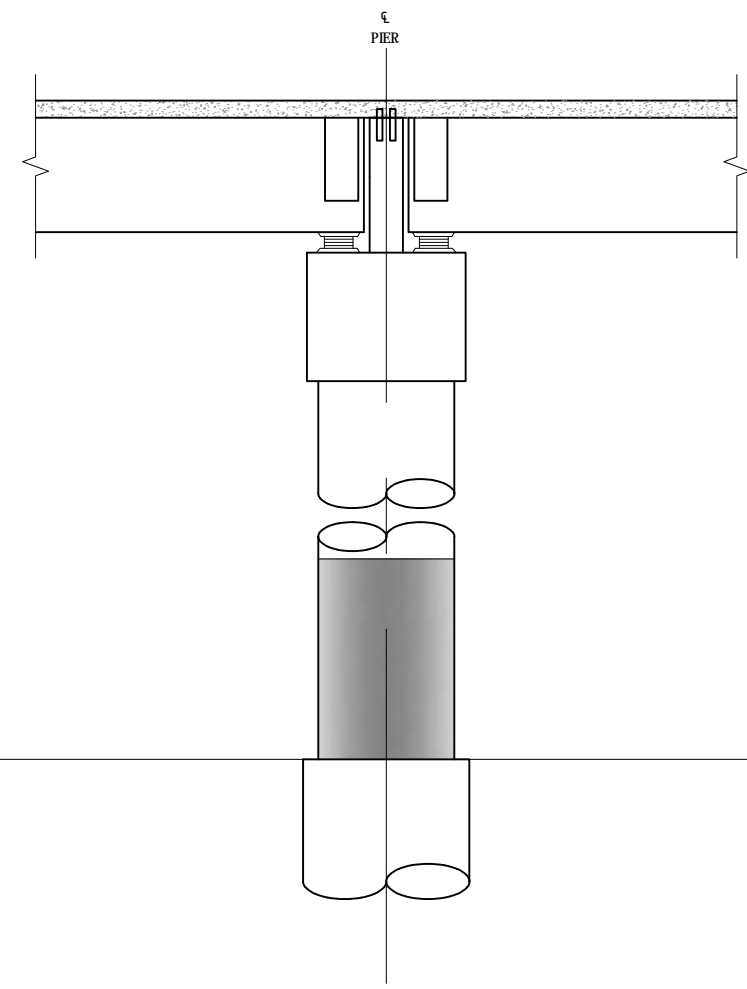
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SACRIFICIAL ANTI-GRAFFITI COATING, 2.7m ABOVE FINISHED GROUND LEVEL

FINISHED GROUND LEVEL

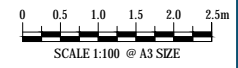
1 No APPROX 2.1m Ø CONCRETE BORED PILE

PILES FROM CH6350 - CH6500 MAY BE FOUNDED ON BASALT AND WILL REQUIRE GROUTING. PILES ELSEWHERE WILL LIKELY BE FOUNDED ON WAITAEMATA GROUP.



S10 SECTION - EASTWESTLINK EB TO SH1 SB RAMP - TYPICAL CROSS SECTION - CONCRETE
AEE-S-041-S-042-S-043 SCALE 1:100 @ A3

LONGSECTION AT PIER
SCALE 1:100 @ A3



FOR CONSENT

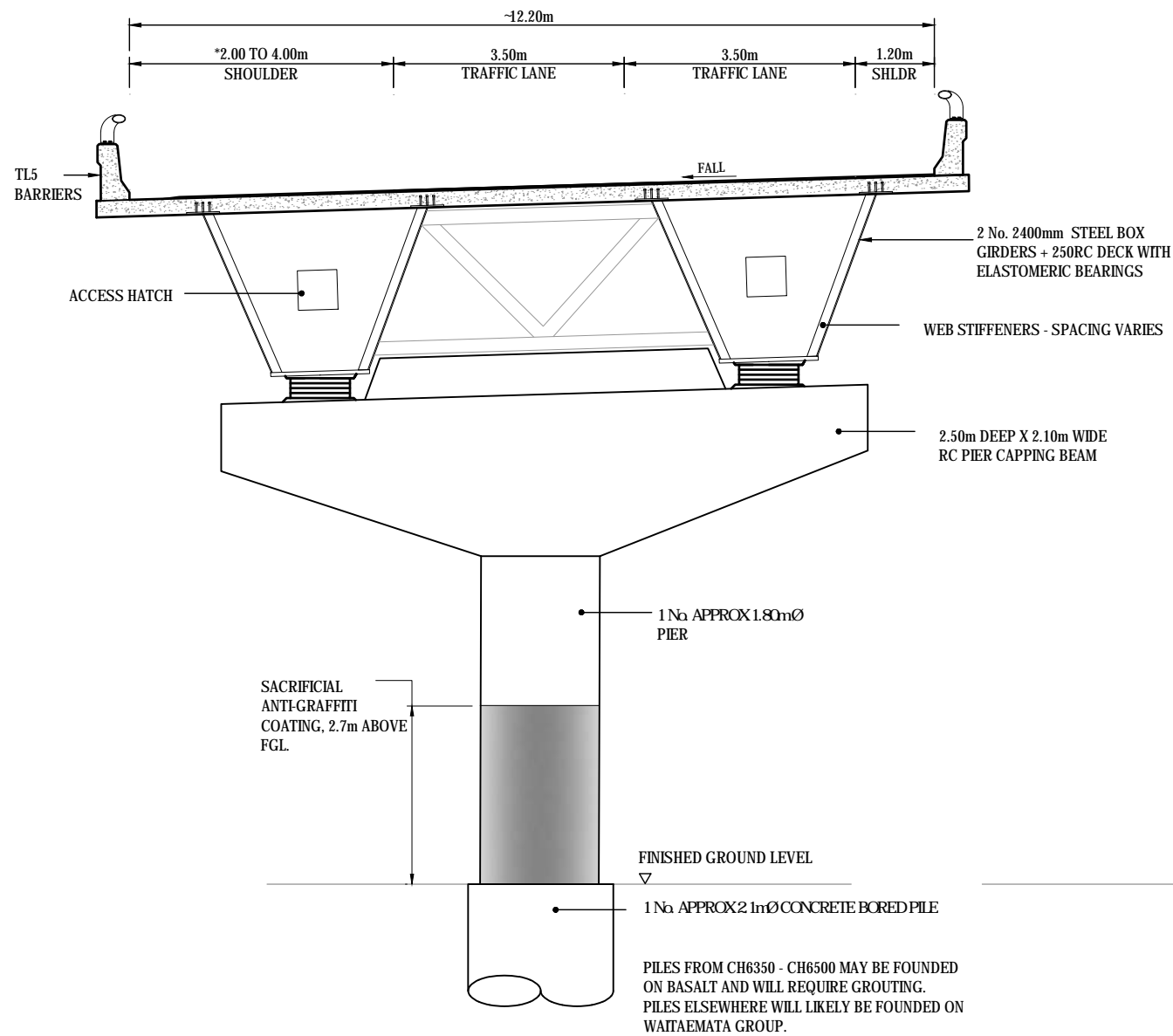
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1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

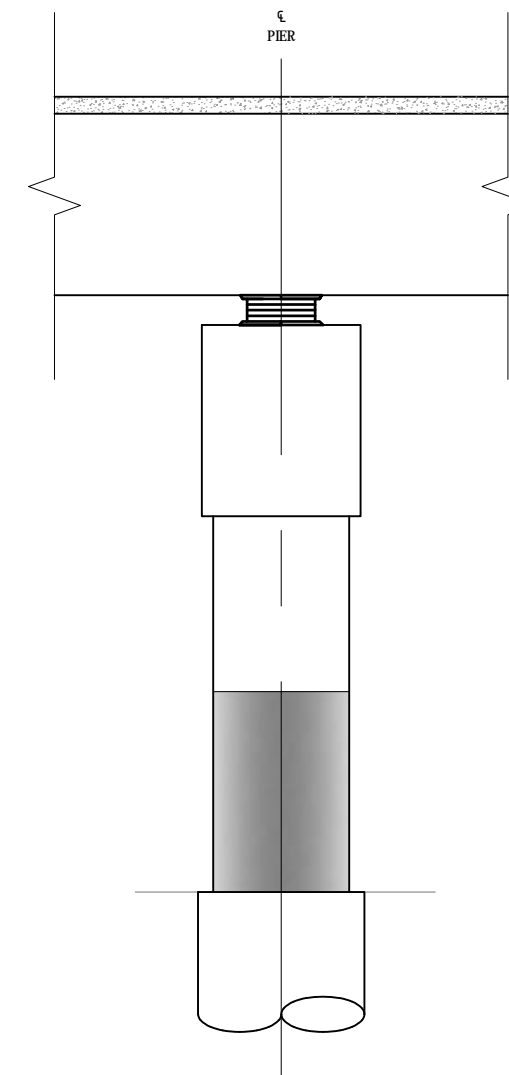


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	O LUMB	Design Check	I BILLINGS	Reviewed	N NANCEKIVELL	Approved	P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

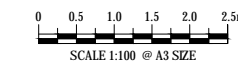
Drawing Title	STRUCTURAL EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - CONCRETE		
Drawing Number	AEE-S-045	Rev No.	1



S11 SECTION - EAST WEST LINK EB TO SH1 SB RAMP
 TYPICAL CROSS SECTION - STEEL
 SCALE 1:100 @ A3



LONGSECTION AT PIER
 SCALE 1:100 @ A3



FOR CONSENT

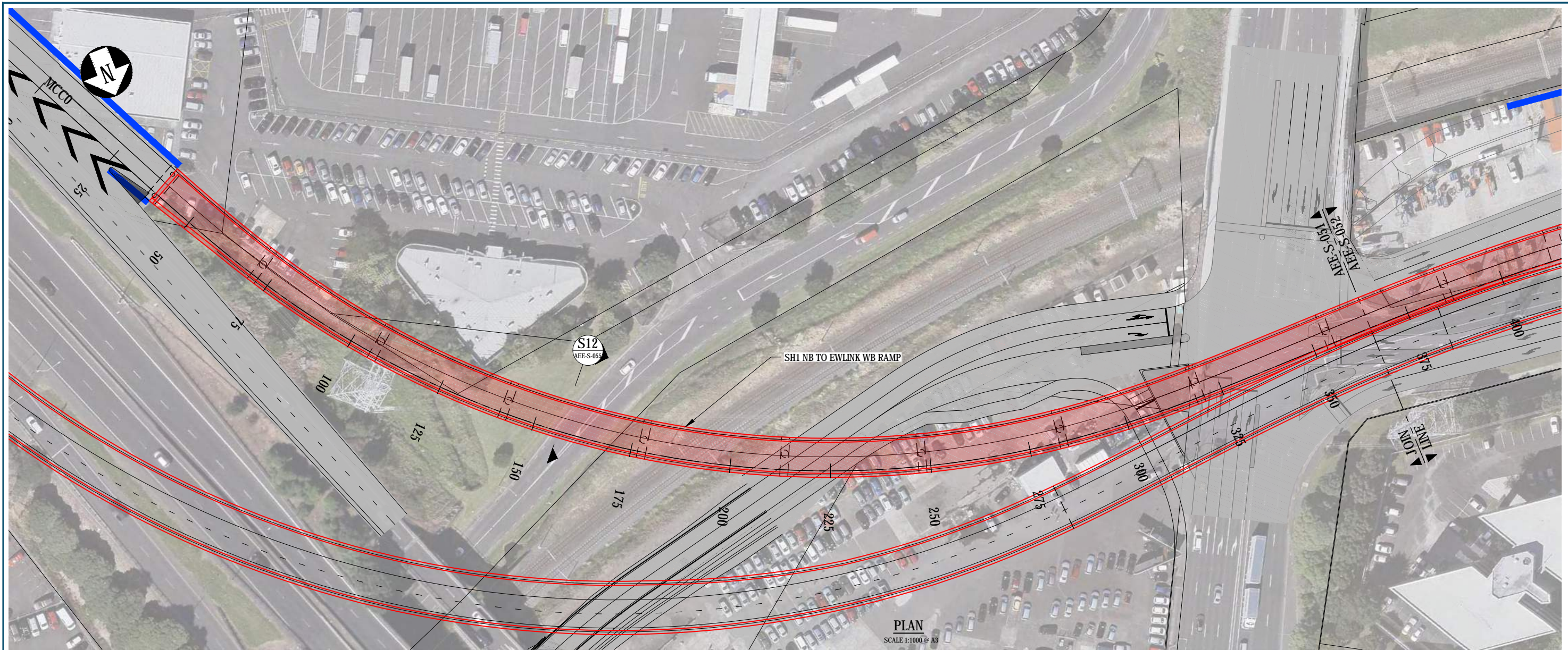
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1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

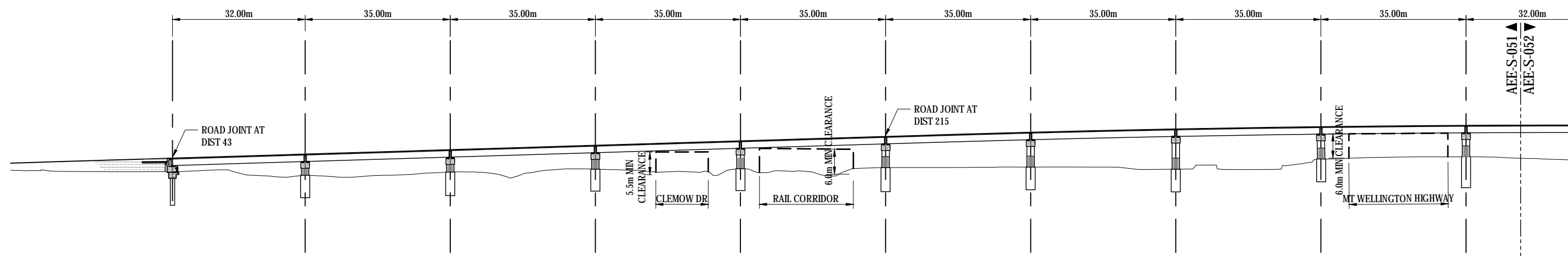


Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - STEEL	Rev No. 1
Drawing Number AEE-S-046	

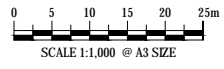


PLAN
SCALE 1:1000 @ A3



LONG SECTION

SCALE 1:1000 @ A3



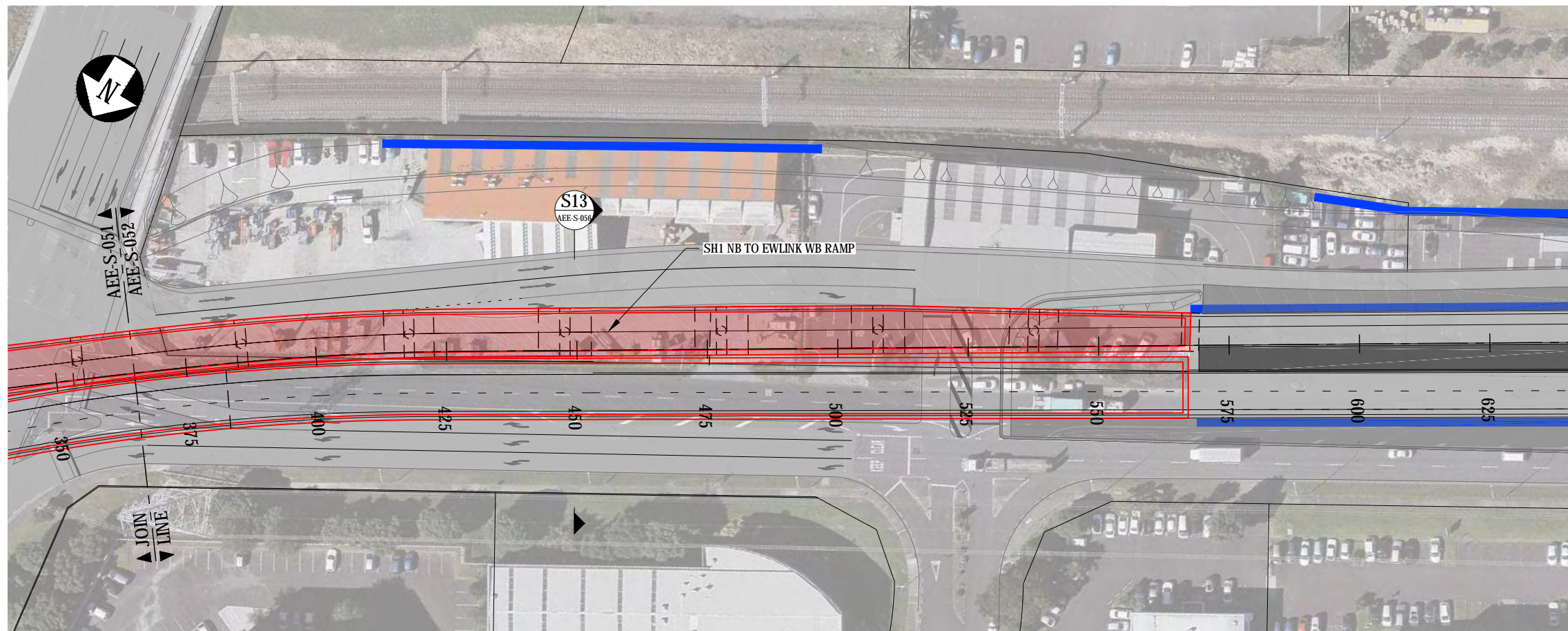
No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

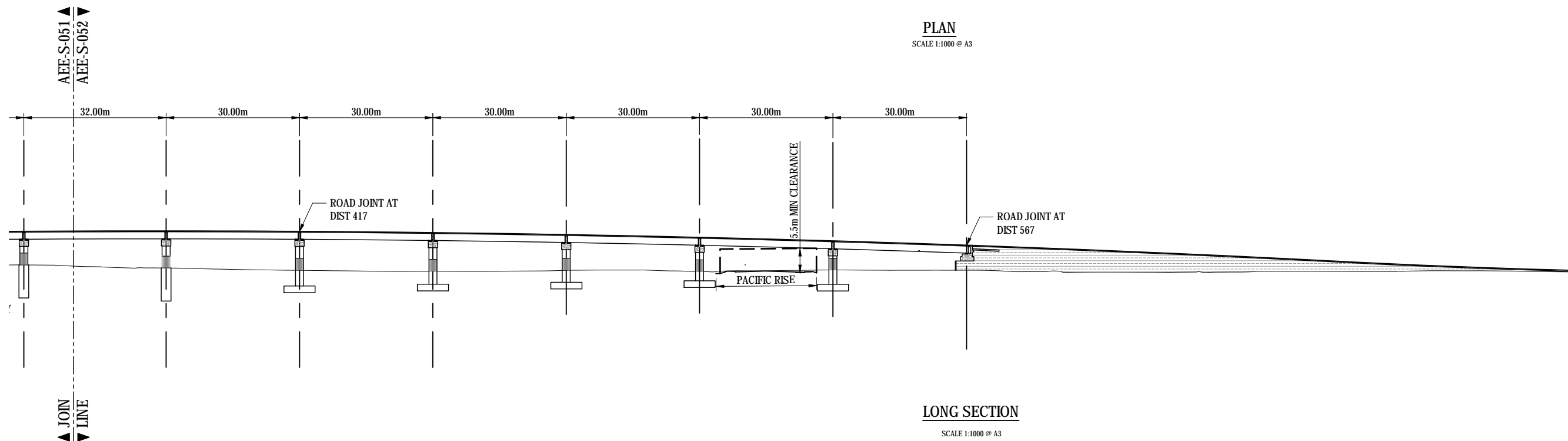
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL SH1 NB TO EWLINK WB OFF RAMP PLAN AND LONG SECTION - SHEET 1	Rev No. 1
Drawing Number AEE-S-051	

FOR CONSENT



PLAN
SCALE 1:1000 @ A3



LONG SECTION
SCALE 1:1000 @ A3



FOR CONSENT

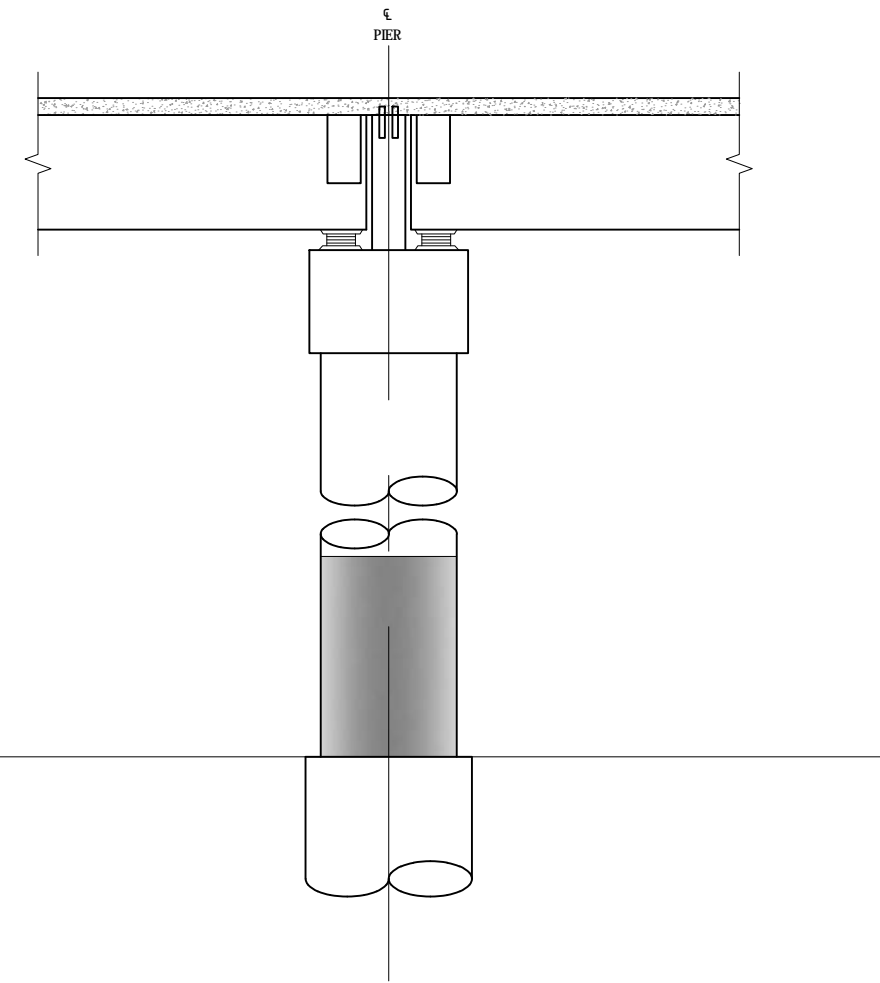
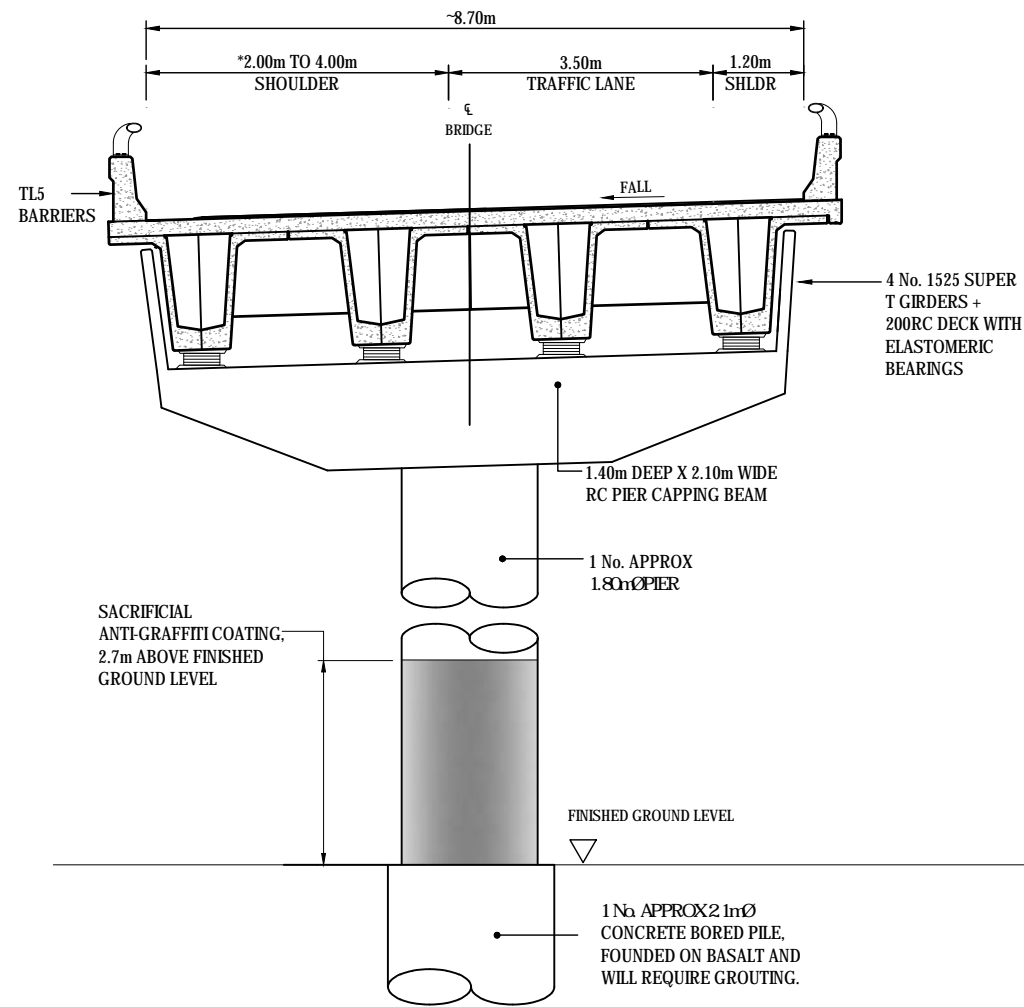
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



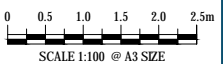
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL SH1 NB TO EWLINK WB OFF RAMP PLAN AND LONG SECTION - SHEET 2	Drawing Number AEE-S-052	Rev No. 1
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S12 SECTION - SH1 NB RAMP TO EASTWEST LINK WB - TYPICAL CROSS SECTION (PILED)
 AEE-S-051.S-052 SCALE 1:100 @ A3

LONGSECTION AT PIER
 SCALE 1:100 @ A3



FOR CONSENT

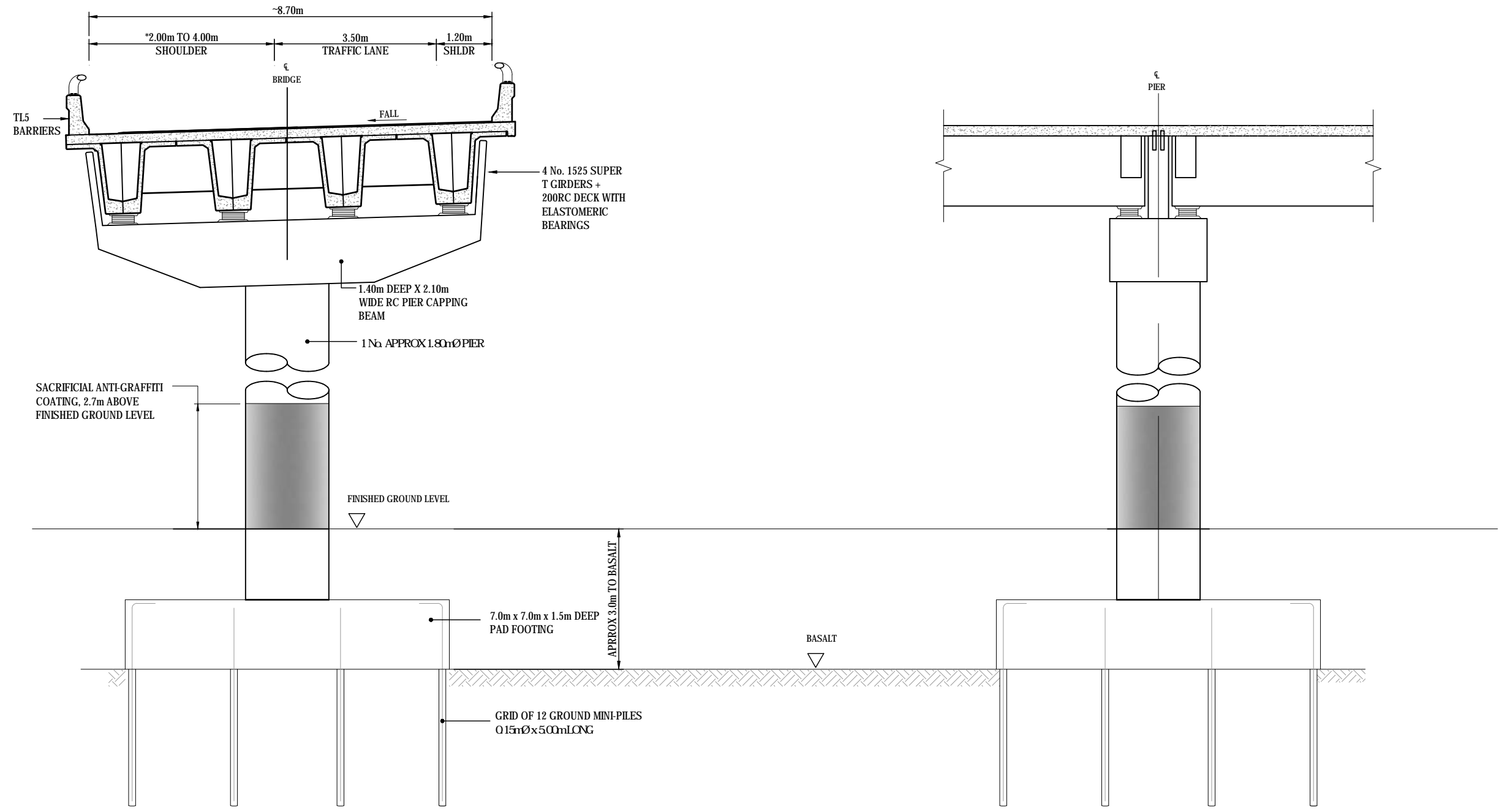
No.	Issued Status	Drawn	Check'd	App'd	Date
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	JM	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
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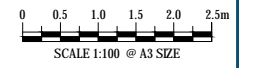
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL SH1 NB TO EWLINK WB OFF RAMP TYPICAL CROSS SECTION - SHEET 1	Rev No. 1
Drawing Number AEE-S-055	



S13 SECTION - SH1 NB RAMP TO EASTWEST LINK WB - TYPICAL CROSS SECTION (PAD FOOTINGS)
 SCALE 1:100 @ A3

LONGSECTION AT PIER
 SCALE 1:100 @ A3



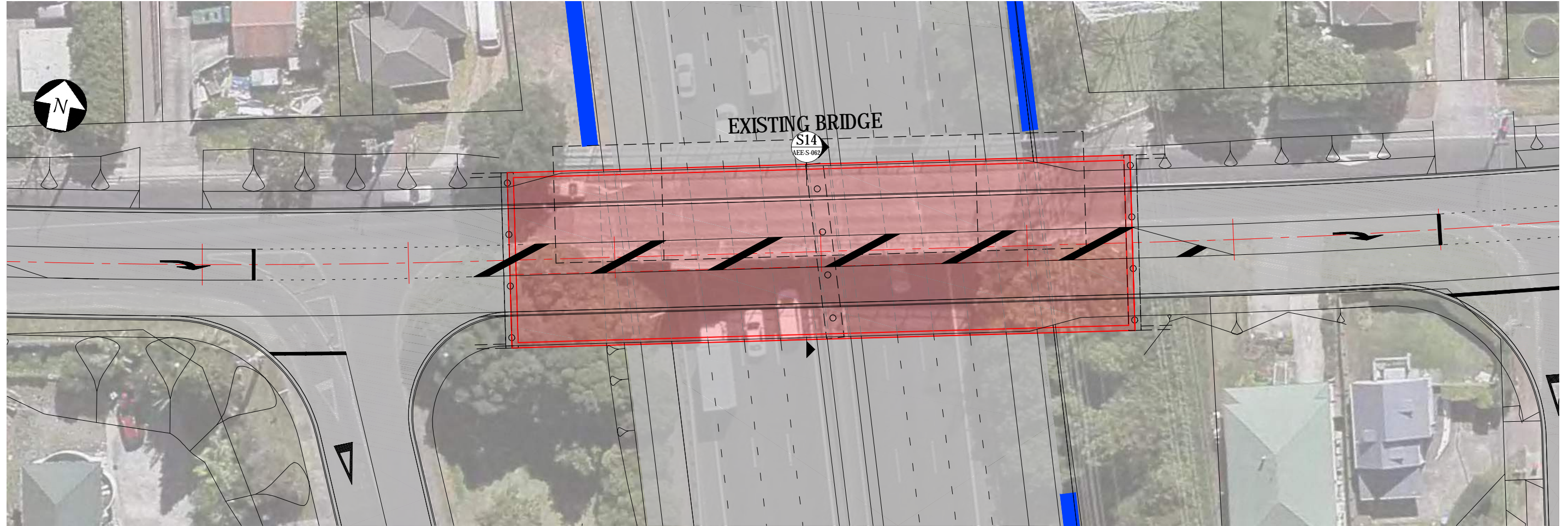
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
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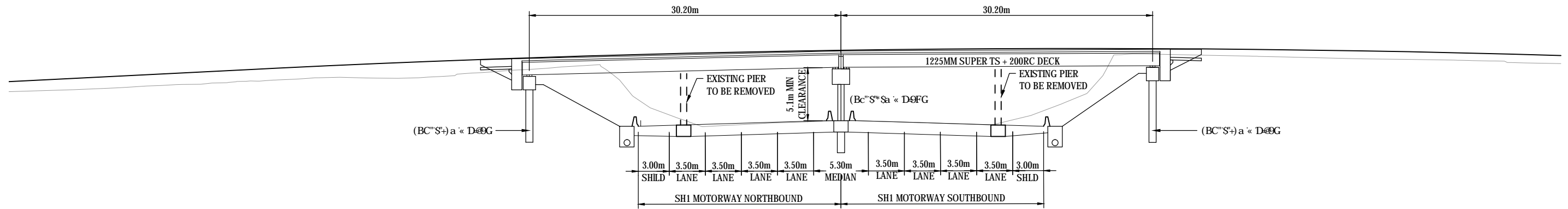
DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL SH1 NB TO EWLINK WB OFF RAMP TYPICAL CROSS SECTION - SHEET 2	Rev No. 1
Drawing Number S-056	



PLAN
SCALE 1:400 @ A3



LONG SECTION
SCALE 1:400 @ A3



0 ISSUED FOR CONSENT		AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

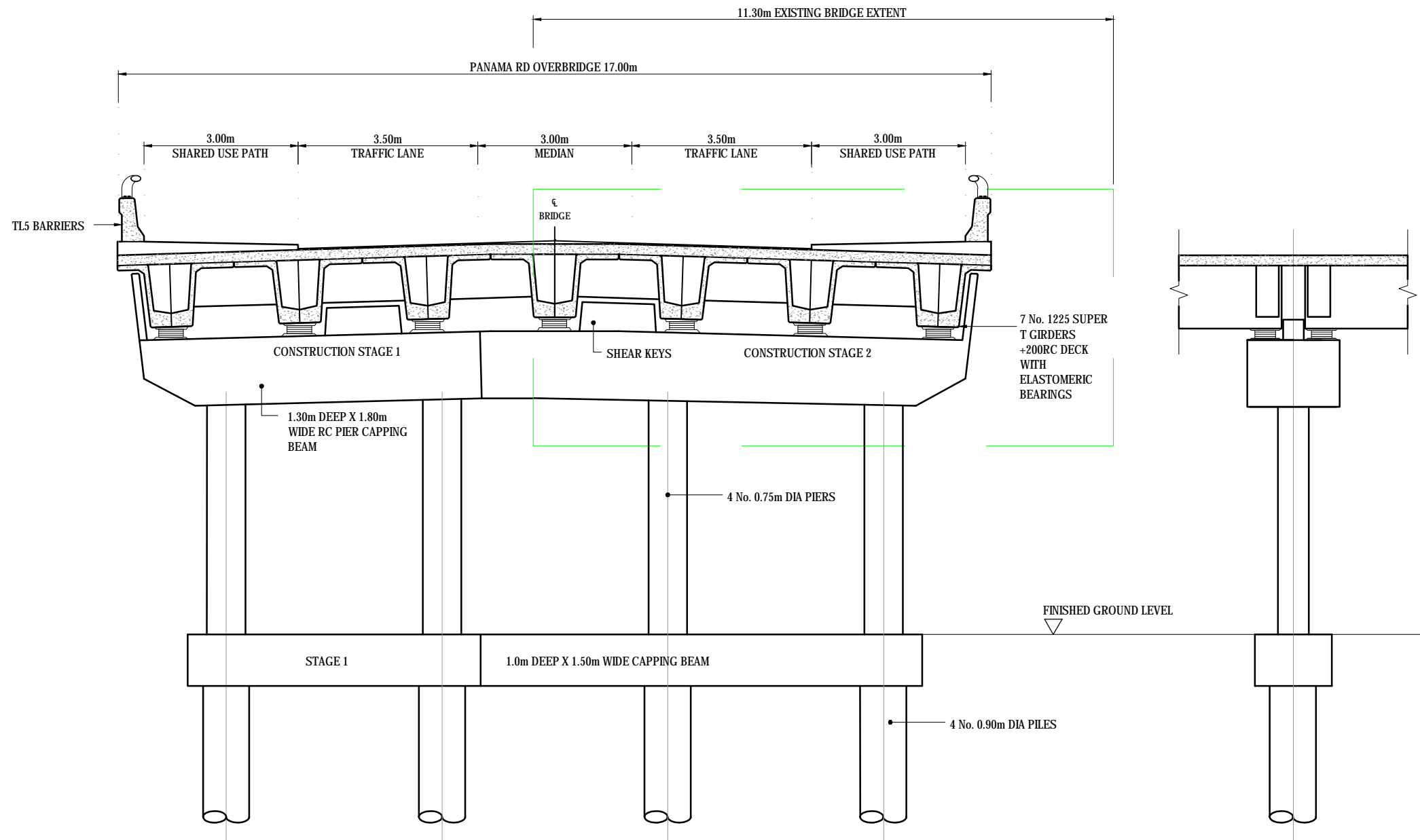
DISCLAIMER
 Hāwhiriāriki ki te motu o Te Āwhariorangi i raro o te RMA mō ngā whakaatua me te whakamārama.
 5* NZfa Uijeb;ckb igjg VMMc 7U'Xijg b"
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



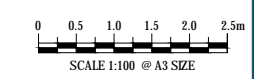
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL PANAMA ROAD OVERBRIDGE PLAN AND LONG SECTION	
Drawing Number AEE-S-061	Rev No. 0

FOR CONSENT



S14 SECTION - PANAMA RD BRIDGE - TYPICAL CROSS SECTION
 AEE-S-061 SCALE 1:100 @ A3



FOR CONSENT

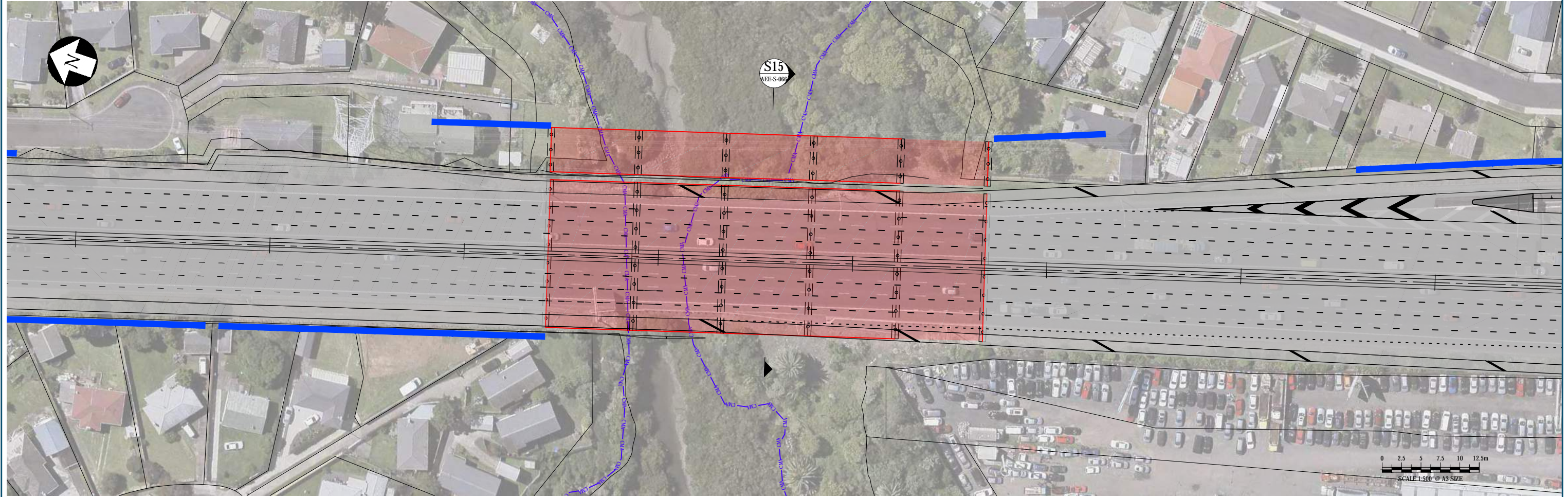
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te ika a Māui... under the RMA for resource consents and designations. 5' b'zfa Uj'ib'g'ckb j'g'g' V'W'W'c'z'U'X'j'g' b' Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

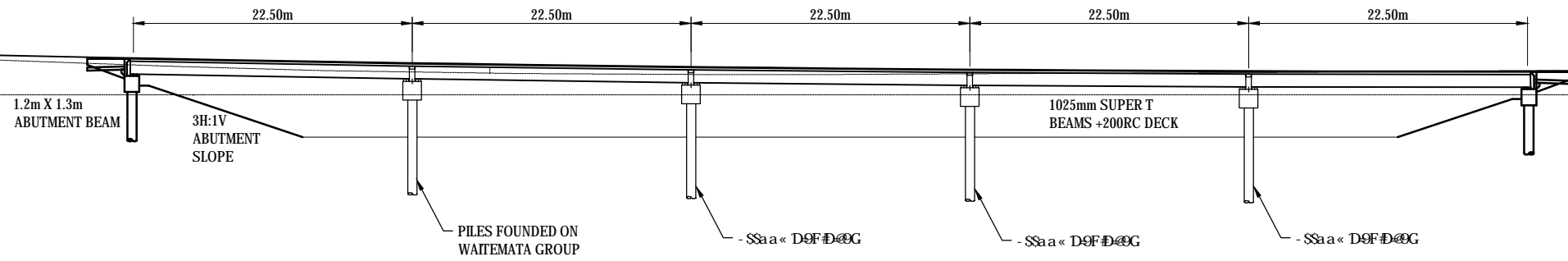


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	O LUMB	Design Check	I BILLINGS	Design Manager	1/12/16	Alliance Manager	1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	STRUCTURAL PANAMA ROAD OVERBRIDGE TYPICAL CROSS SECTION	
Drawing Number	AEE-S-062	Rev No. 0



PLAN
SCALE 1:500 @ A3



LONG SECTION
SCALE 1:250 @ A3

FOR CONSENT

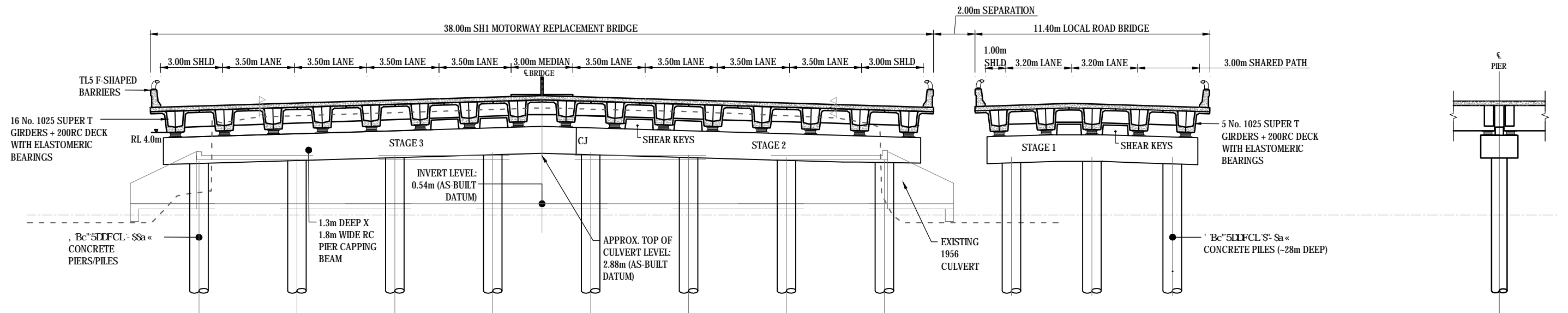
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
This drawing is issued for resource consent and designations under the Resource Management Act 1991 and is intended to be used in conjunction with the resource consent. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.



Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title	STRUCTURAL OTAHUHU CREEK BRIDGE PLAN AND LONG SECTION		
Drawing Number	AEE-S-065		
Rev No.	0		



S15 SECTION - OTAHUHU CREEK BRIDGE - TYPICAL CROSS SECTION
 AEE-S-065 SCALE 1:200 @ A3



FOR CONSENT

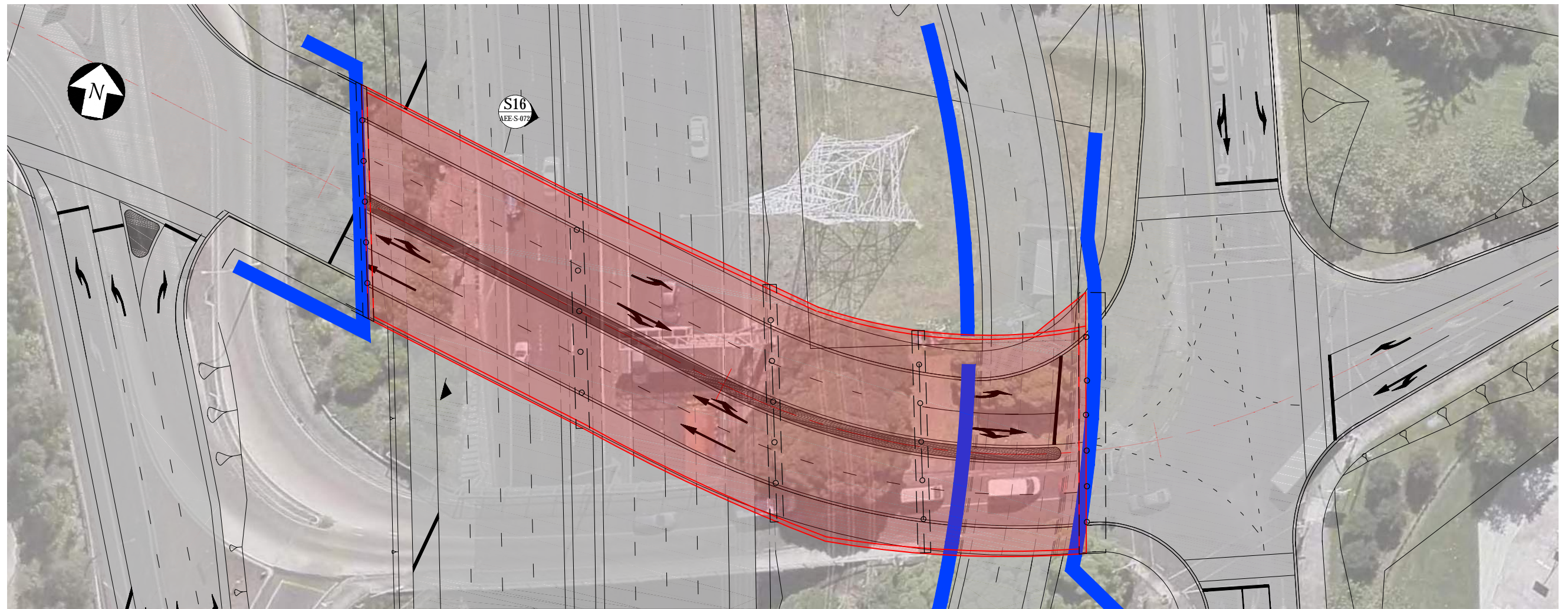
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 This drawing is prepared for resource consents and designations under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

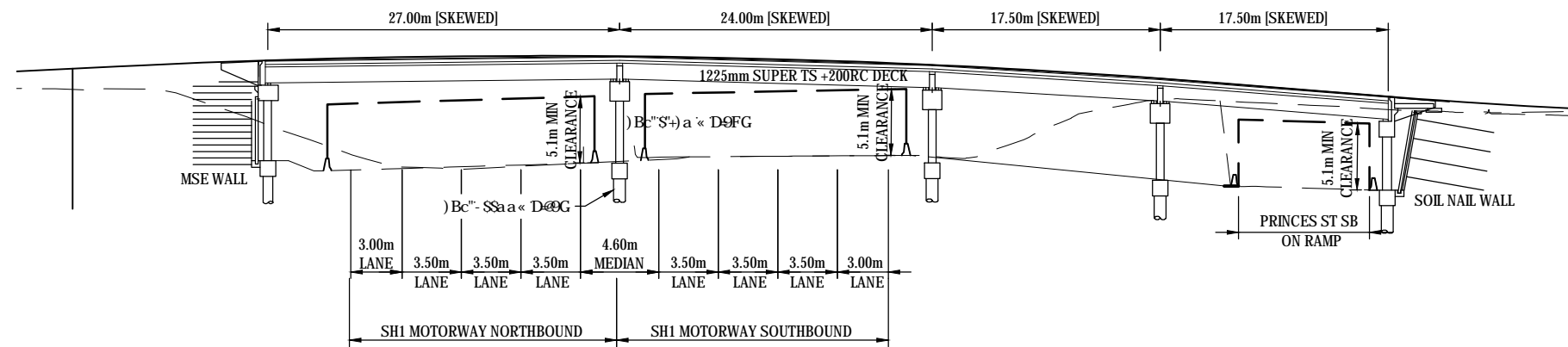


Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

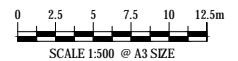
Drawing Title STRUCTURAL OTAHUHU CREEK BRIDGE TYPICAL CROSS SECTION	Rev No. 0
Drawing Number S-066	



PLAN
SCALE 1:500 @ A3



LONG SECTION
SCALE 1:500 @ A3



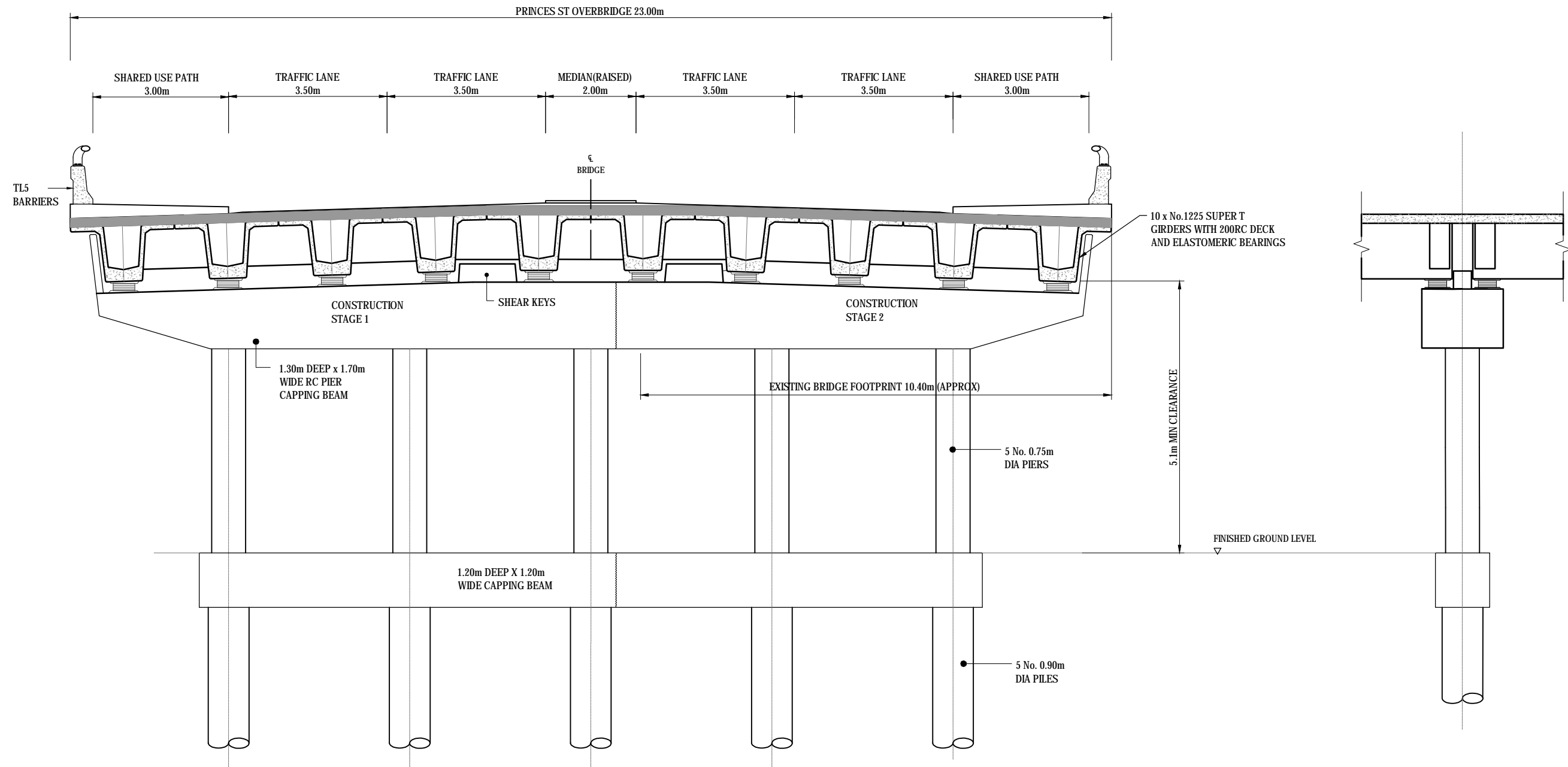
FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te ika a Māui
 under the RMA for resource consents and designations.
 5' hāwhiri te ika a Māui
 Areas and measurements are subject to survey.
 Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

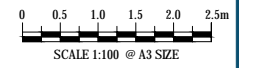
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL PRINCES STREET OVERBRIDGE PLAN AND LONG SECTION	Drawing Number AEE-S-071	Rev No. 0
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S16 SECTION - PRINCES ST OVERBRIDGE - TYPICAL CROSS SECTION
 SCALE 1:100 @ A3

LONGSECTION AT PIER
 SCALE 1:100 @ A3



No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
 Hāwhiri te ika a Māui... under the RMA for resource consents and designations. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



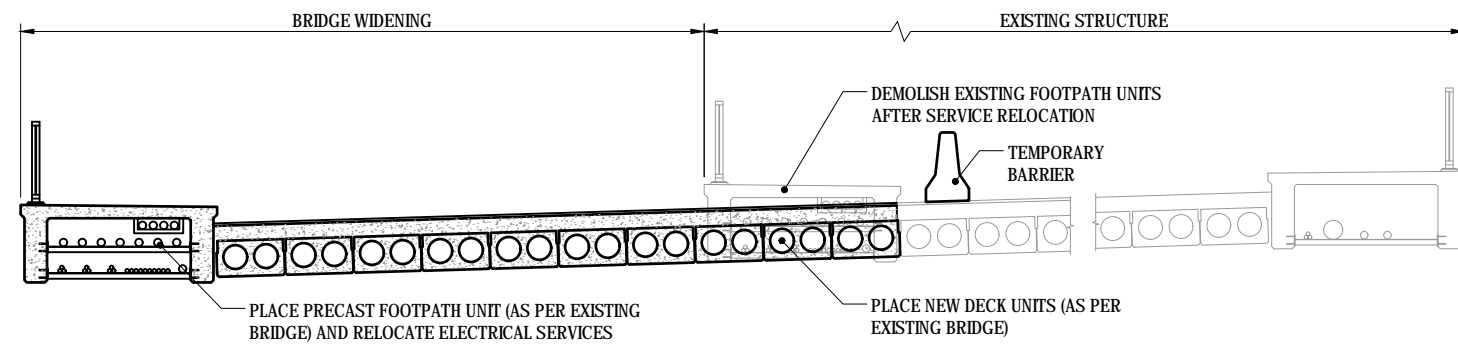
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	O LUMB	Design Check	I BILLINGS	Design Manager	1/12/16	Alliance Manager	1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	STRUCTURAL PRINCES STREET OVERBRIDGE TYPICAL CROSS SECTION	
Drawing Number	AEE-S-072	Rev No. 0

FOR CONSENT



0 1 2 3 4 5m
SCALE 1:200 @ A3 SIZE



S17 SECTION - GREAT SOUTH ROAD RAIL OVERBRIDGE WIDENING
AEE-C-300.AEE-S-81 SCALE 1:100 @ A3

0 0.5 1.0 1.5 2.0 2.5m
SCALE 1:100 @ A3 SIZE

FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	JM	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction



Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed O LUMB	Design Check I BILLINGS	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STRUCTURAL GREAT SOUTH ROAD RAIL OVERBRIDGE WIDENING PLAN AND CROSS SECTION	Drawing Number AEE-S-081	Rev No. 1
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