

DRWG No.	DRAWING TITLE
S-001	STRUCTURES - DRAWING INDEX AND GENERAL NOTES
S-021	OKAHU VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-022	OKAHU VIADUCT - TYPICAL SECTION
S-031	PŪHOI VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-032	PŪHOI VIADUCT - TYPICAL SECTION
S-041	WATSON ROAD OVERPASS - GENERAL ARRANGEMENT - PLAN, LONGITUDINAL AND TYPICAL SECTION
S-051	HIKAUAE VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-052	HIKAUAE VIADUCT - TYPICAL SECTION
S-061	SCHDEWYS VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-062	SCHDEWYS VIADUCT - TYPICAL SECTION
S-071	MOIRS HILL ROAD UNDERPASS - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-072	MOIRS HILL ROAD UNDERPASS - TYPICAL SECTION
S-081	PERRY ROAD VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-082	PERRY ROAD VIADUCT - TYPICAL SECTION
S-085	KAURI ECO VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-086	KAURI ECO VIADUCT - TYPICAL SECTION
S-091	WYLLIE ROAD OVERPASS - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTIONS
S-092	WYLLIE ROAD OVERPASS - TYPICAL SECTION
S-101	WOODCOCKS ROAD VIADUCT - GENERAL ARRANGEMENT - PLAN AND LONGITUDINAL SECTION
S-102	WOODCOCKS ROAD VIADUCT - TYPICAL SECTION
S-111	CARRAN ROAD FLOOD RELIEF BRIDGE - GENERAL ARRANGEMENT - PLAN AND ELEVATION

GENERAL NOTES

- ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
- ALL NAMED ROADS SHALL BE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
- AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
- DIGITAL TERRAIN MODEL PROCESSED FROM AERIAL SURVEY (MARCH 2010) TO NZTM PROJECTION.
- EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, APRIL 2013 UPDATE.

0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT



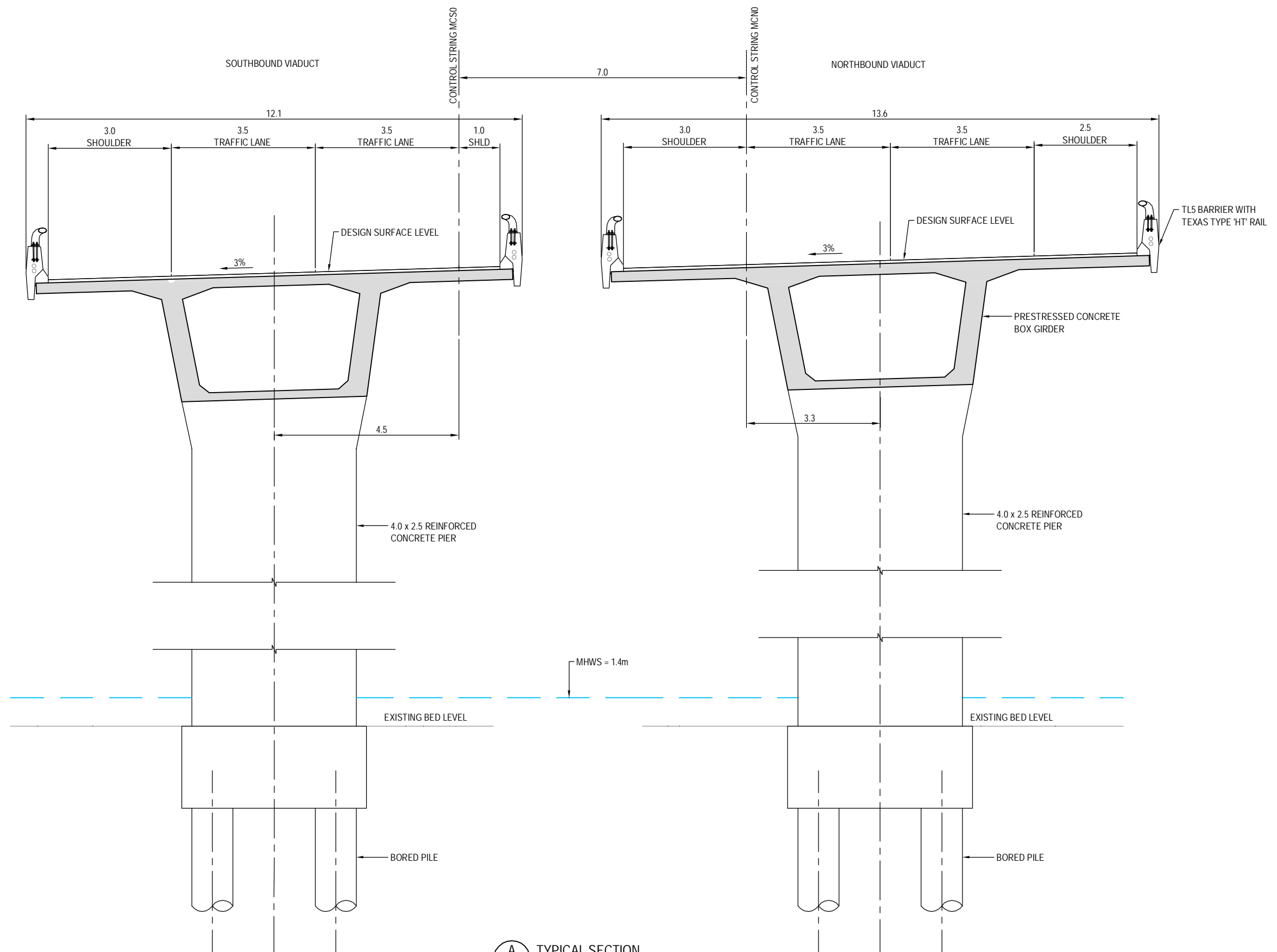
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN SNP	DRAFTING CHECK IH	REVIEWED DISCIPLINE MANAGER MRH	APPROVED ALLIANCE MANAGER TI
DESIGNED IH	DESIGN REVIEW RET		

STRUCTURES DRAWING INDEX AND GENERAL NOTES			
SCALE NOT TO SCALE	CONTRACT No PA3748	DRAWING No S-001	AMDT 0



S:\Further North - PAA 300 Design\300.5 Technical\01-Drawing Production\CADD\Drawings\S-021\_S-022.dwg Plot Date: 16 August 2013 12:22 PM



**A** TYPICAL SECTION  
S-021 SCALE 1:100 @ A3 SIZE



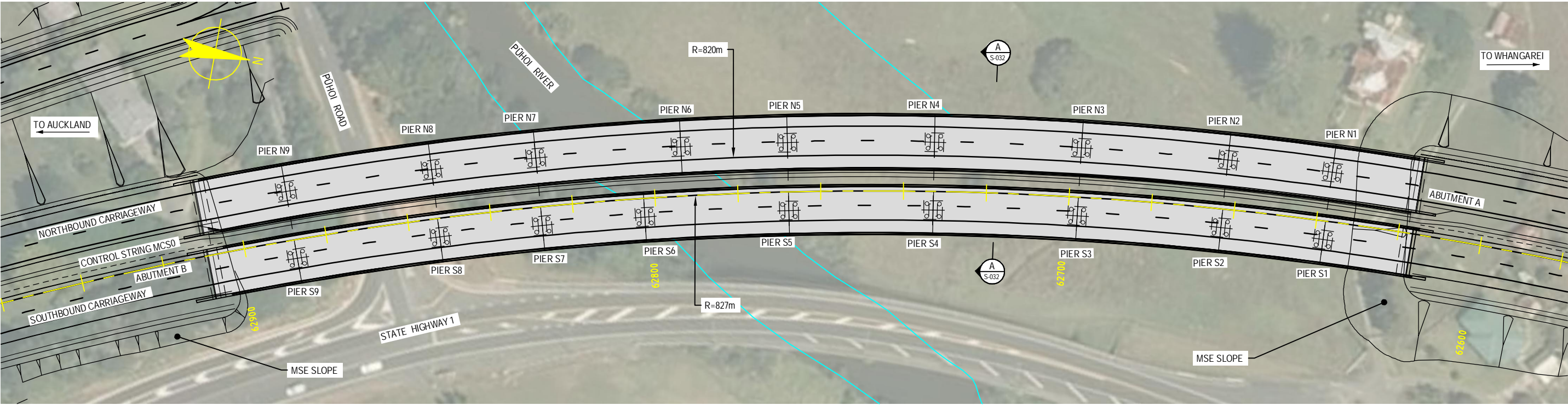
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN SP / AN	DRAFTING CHECK IH	REVIEWED DISCIPLINE MANAGER MRH	APPROVED ALLIANCE MANAGER TI
DESIGNED IH	DESIGN REVIEW RET		

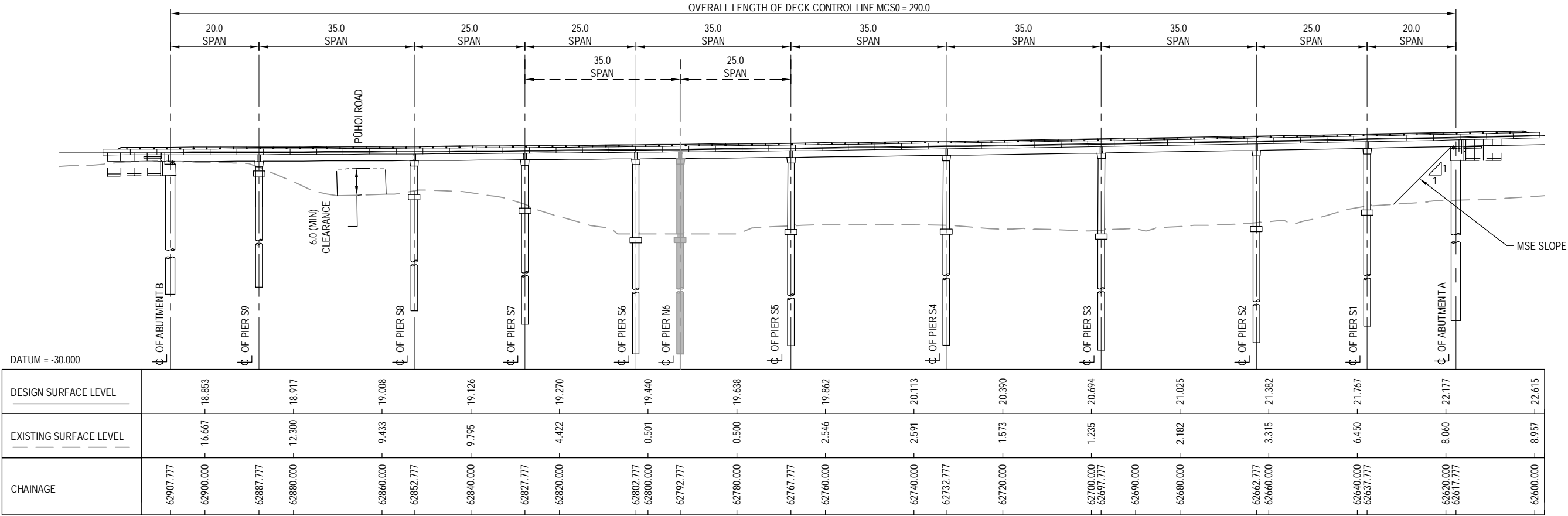
OKAHU VIADUCT TYPICAL SECTION			
SCALE AS SHOWN	CONTRACT No PA3748	DRAWING No S-022	AMDT 0

AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
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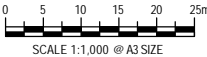




PLAN  
SCALE 1:1000 @ A3 SIZE



LONGITUDINAL SECTION ON CONTROL STRING MCS0  
HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPRD A. MGR	PURPOSE OF ISSUE / AMENDMENT

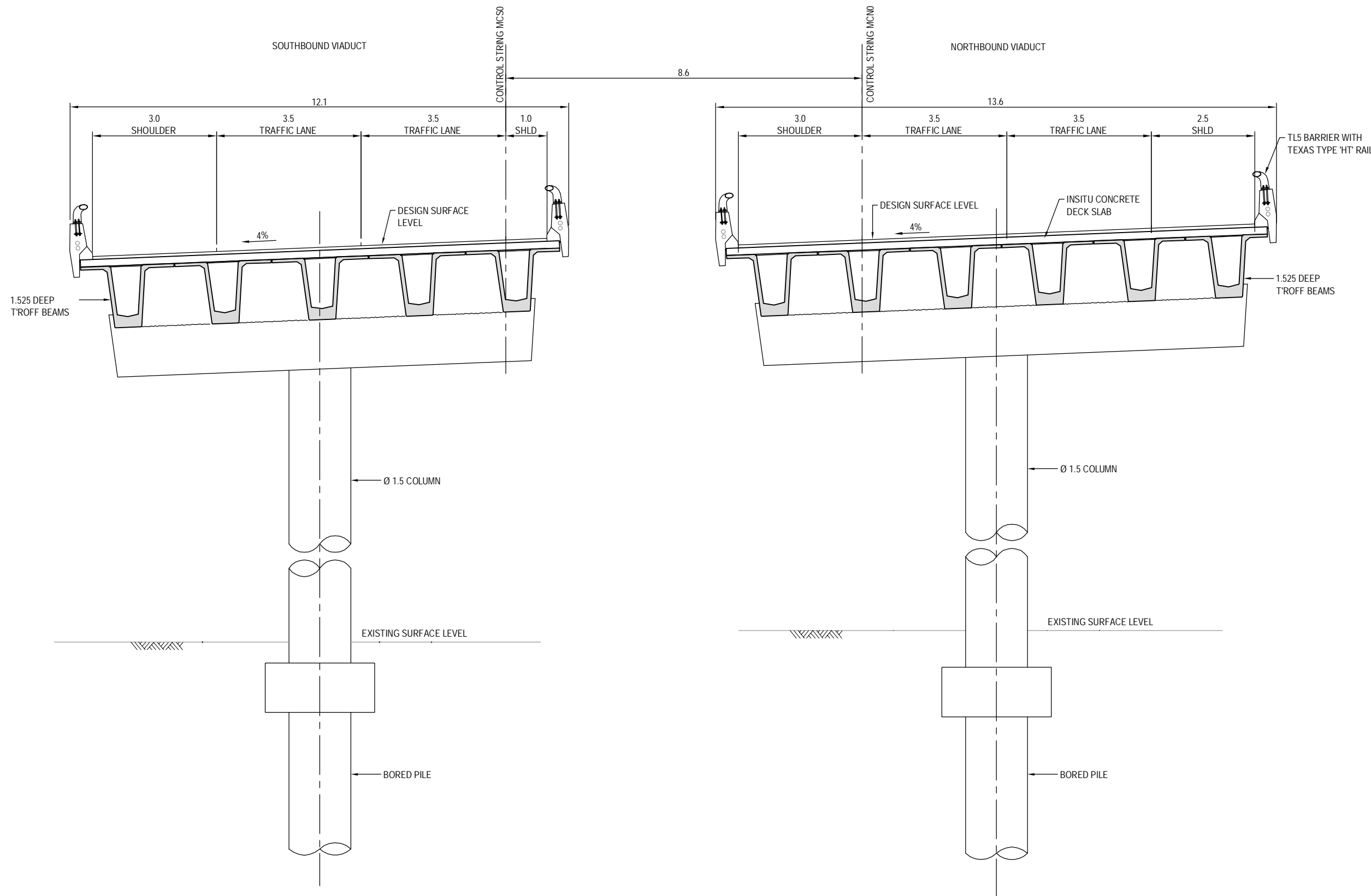


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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

PŪHOI VIADUCT GENERAL ARRANGEMENT PLAN AND LONGITUDINAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-031	AMDT: 0

S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\301\_S-032.dwg Plot Date: 14 August 2013 5:26 PM



**A** TYPICAL SECTION  
S-031 SCALE 1:100 @ A3 SIZE



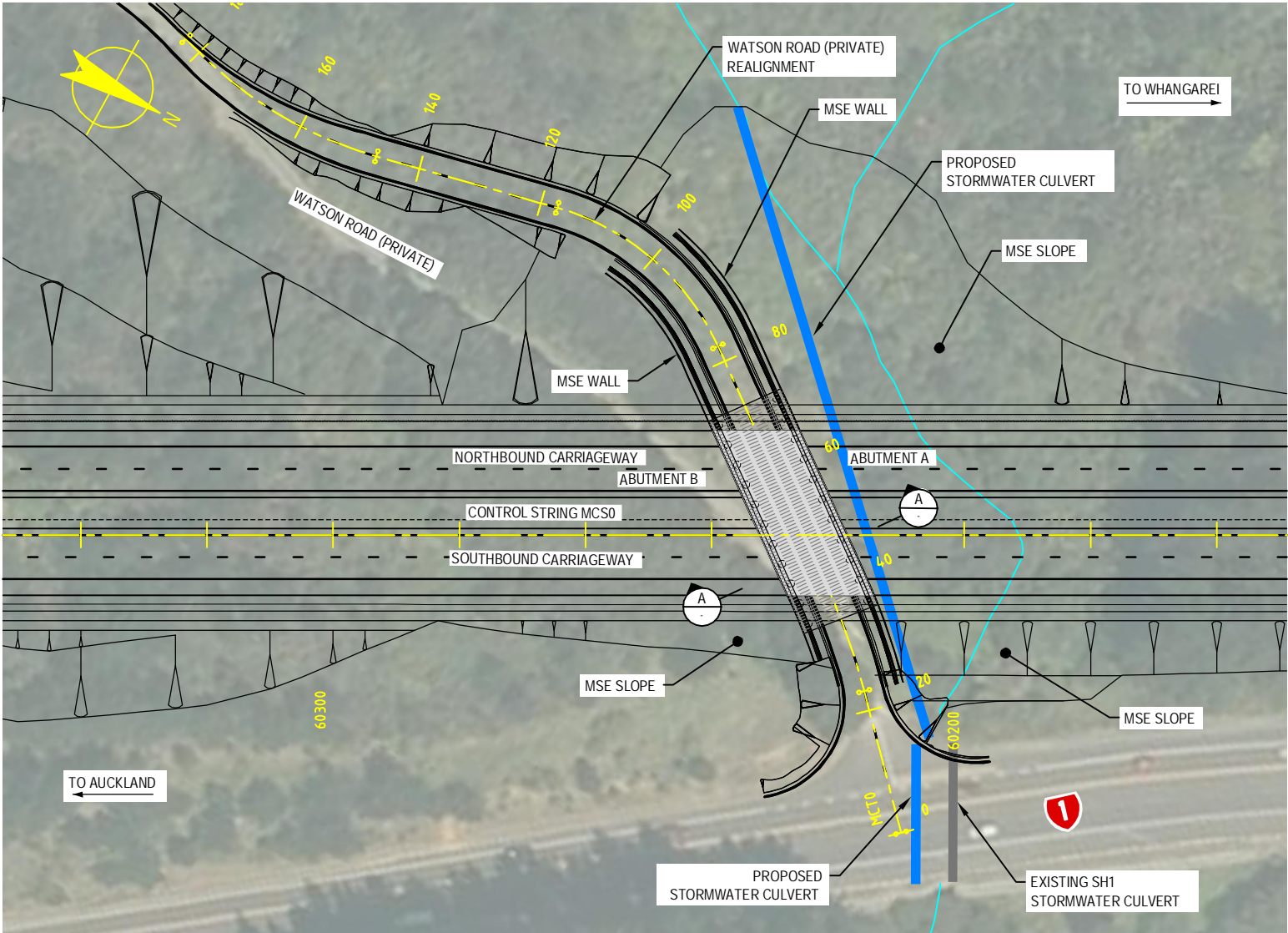
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT
0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT



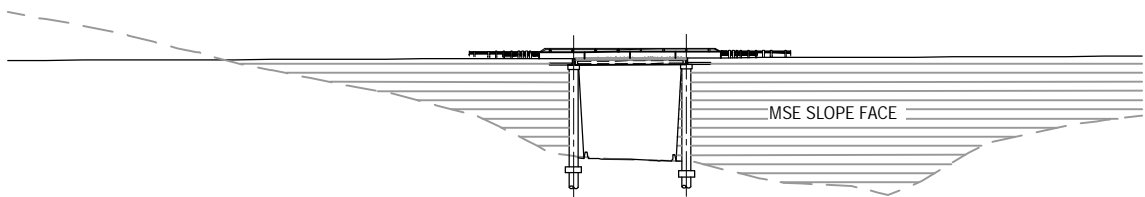
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

PŪHOI VIADUCT TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-032	AMDT: 0



PLAN  
SCALE 1:1000 @ A3 SIZE

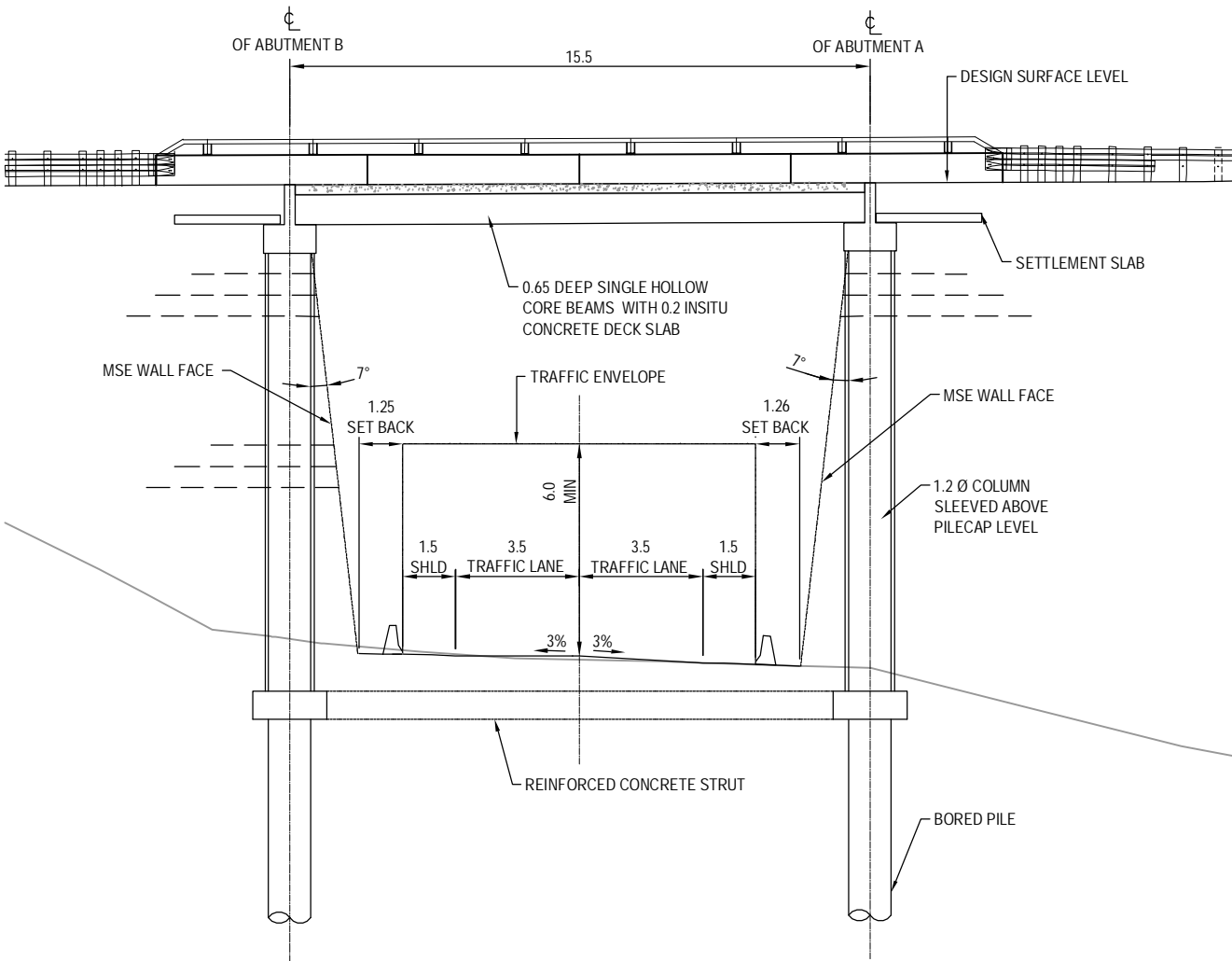


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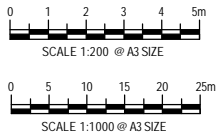
DESIGN SURFACE LEVEL	34.879	34.955	35.031	35.107	35.183	35.259	35.335
EXISTING SURFACE LEVEL	35.102	30.935	24.681	21.507	18.386	22.953	27.227
CHAINAGE	60280.000	60260.000	60240.000	60220.000	60200.000	60180.000	60160.000

LONGITUDINAL SECTION ON CONTROL STRING MCS0

HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



A TYPICAL SECTION  
SCALE 1:200 @ A3 SIZE



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



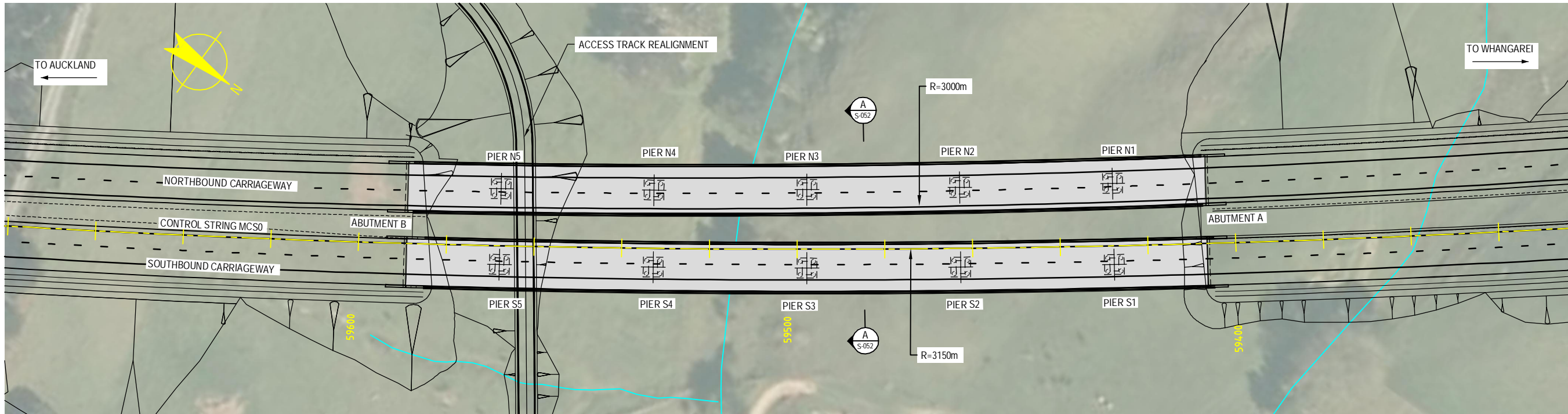
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

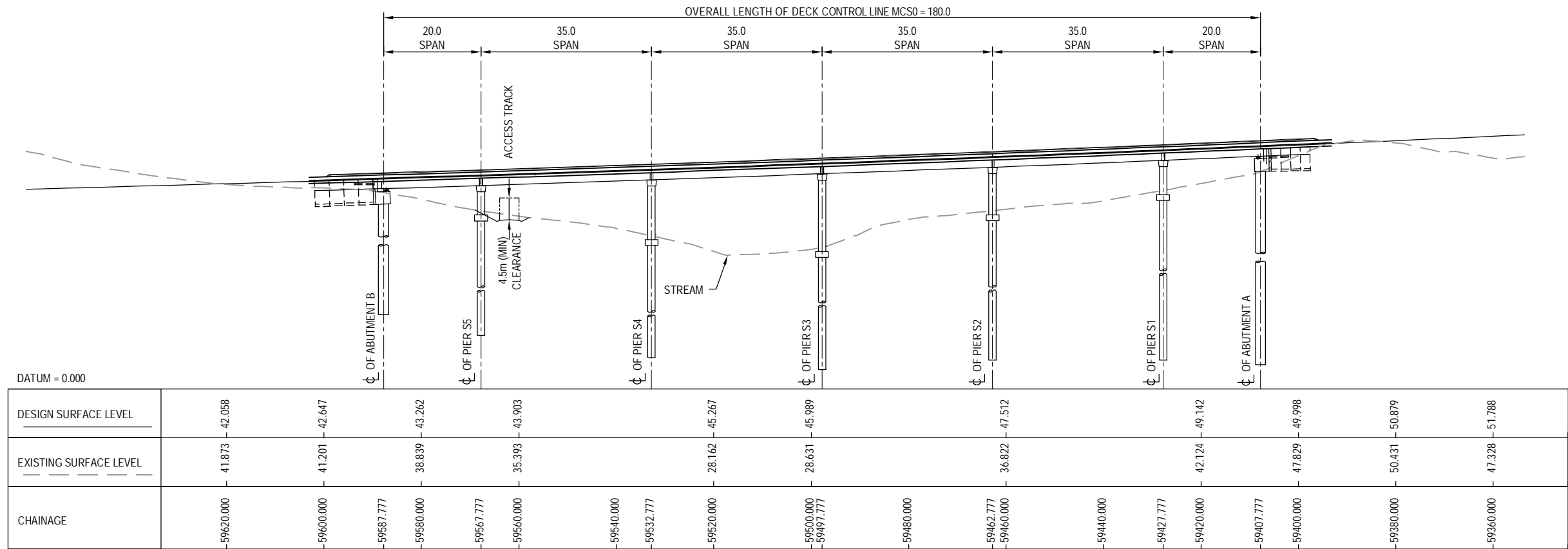
WATSON ROAD OVERPASS GENERAL ARRANGEMENT PLAN, LONGITUDINAL AND TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-041	AMDT: 0



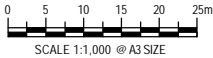
S:\Further North - PAA\3300 Design\3300 5 Technical\01-Drawing Production\CADD Drawings\3300 5 S-051.dwg Plot Date: 14 August 2013 5:34 PM



PLAN  
SCALE 1:1000 @ A3 SIZE



LONGITUDINAL SECTION ON CONTROL STRING MCS0  
HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT

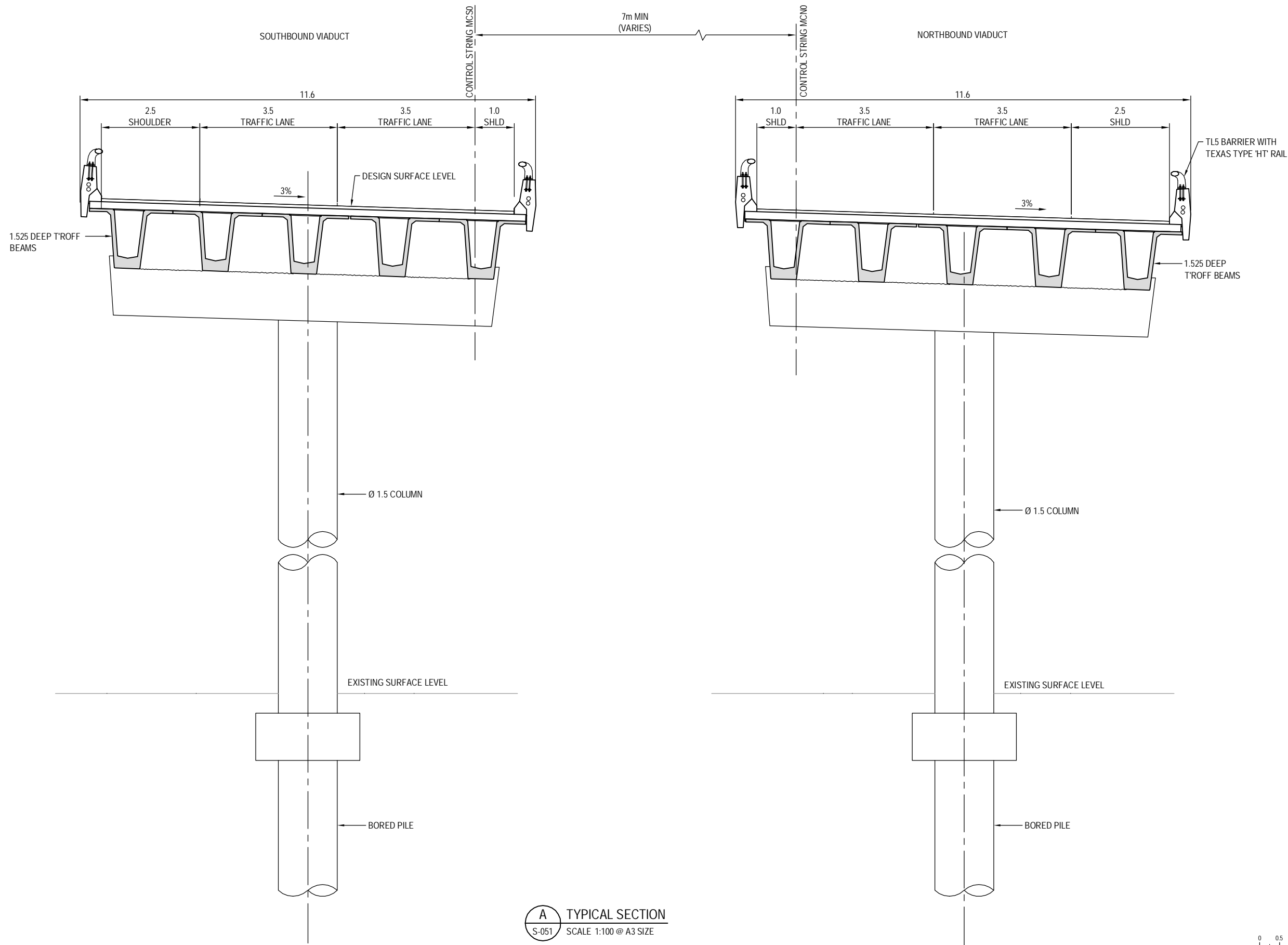


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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

HIKAUAE VIADUCT GENERAL ARRANGEMENT PLAN AND LONGITUDINAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-051	AMD: 0

S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\5-d51\_S-052.dwg Plot Date: 16 August, 2013 - 1:55 PM



AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT
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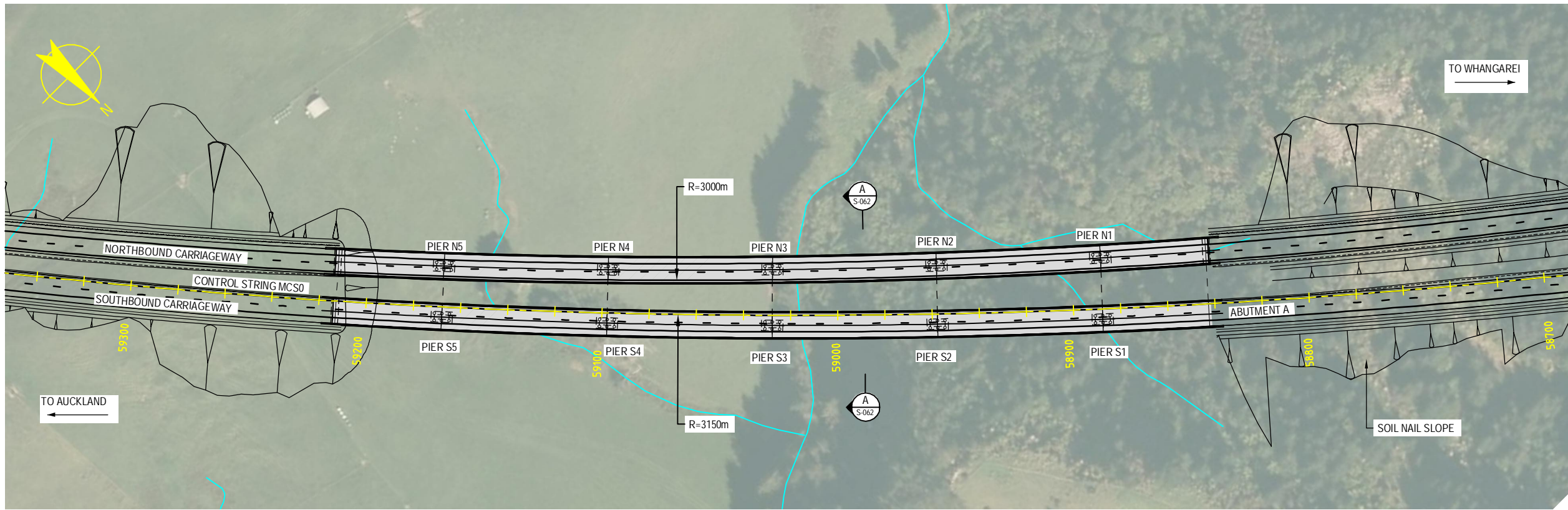
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

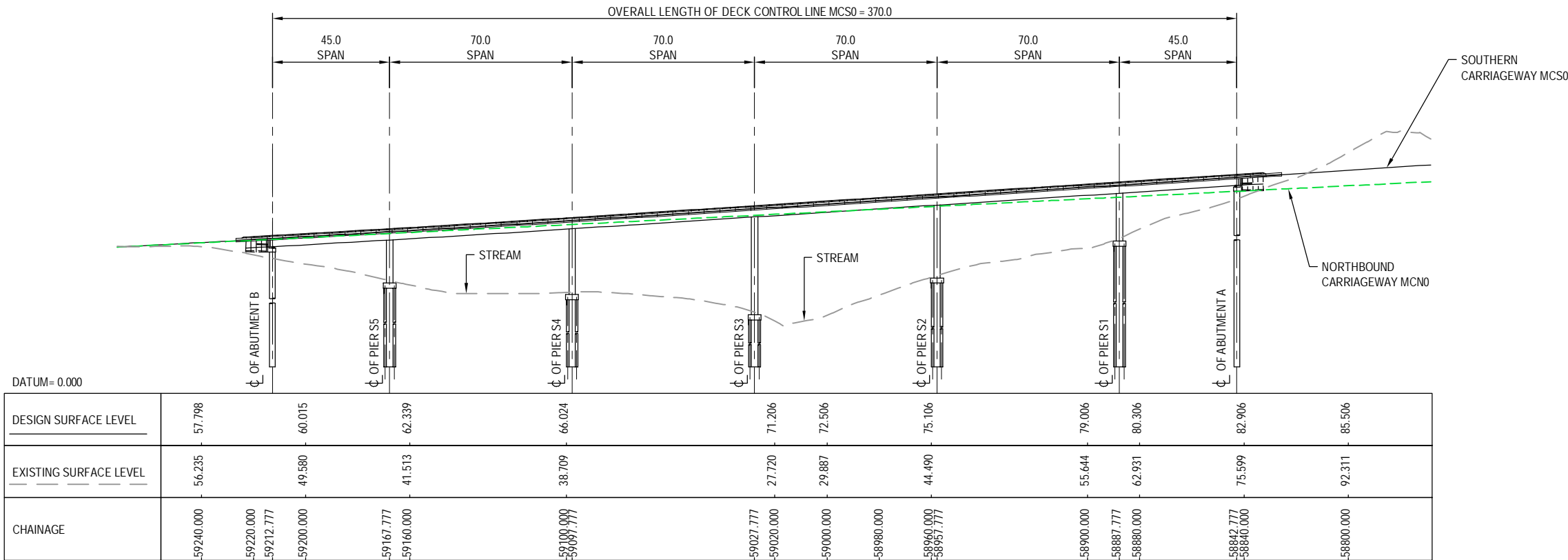
HIKAUAE VIADUCT TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-052	AMDT: 0



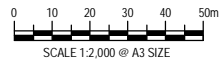
S:\Further North - PAA\3300 Design\3300.5 Technical\01-Drawing Production\CADD\Drawings\3300.5-061.dwg Plot Date: 16 August, 2013 - 159 PM



PLAN  
SCALE 1:2000 @ A3 SIZE



LONGITUDINAL SECTION ON CONTROL STRING MCS0  
HORIZONTAL SCALE 1:2000 @ A3  
VERTICAL SCALE 1:2000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT



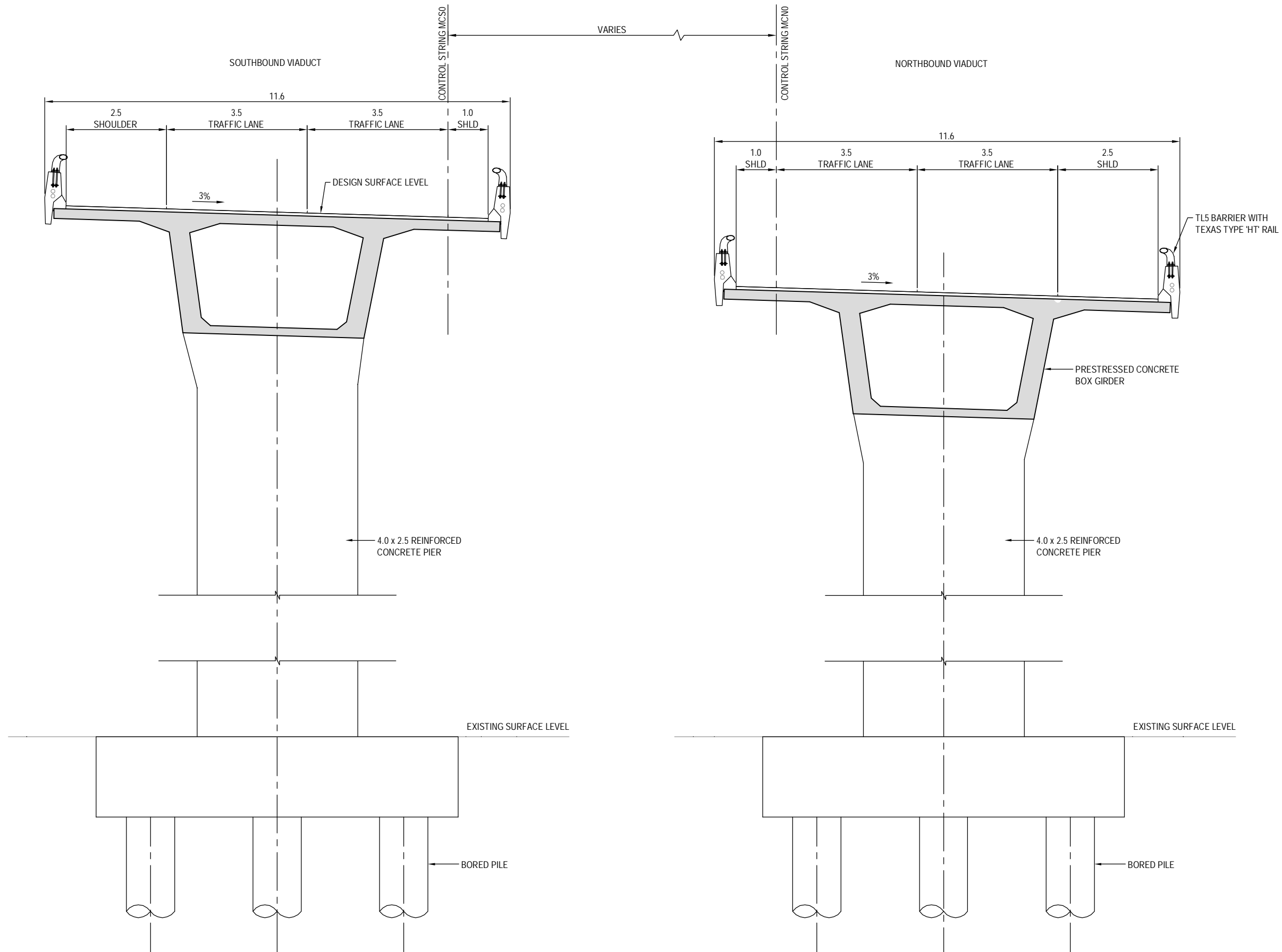
DISCLAIMER  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

SCHEDWYS VIADUCT  
GENERAL ARRANGEMENT  
PLAN AND LONGITUDINAL SECTION

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-061	AMD: 0
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S:\Further North - PA\3300 Design\3300.5 Technical\01-Drawing Production\CADD Drawings\5-061\_S-062.dwg Plot Date: 16 August, 2013 - 2:00 PM



A TYPICAL SECTION  
S-061 SCALE 1:100 @ A3 SIZE

AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
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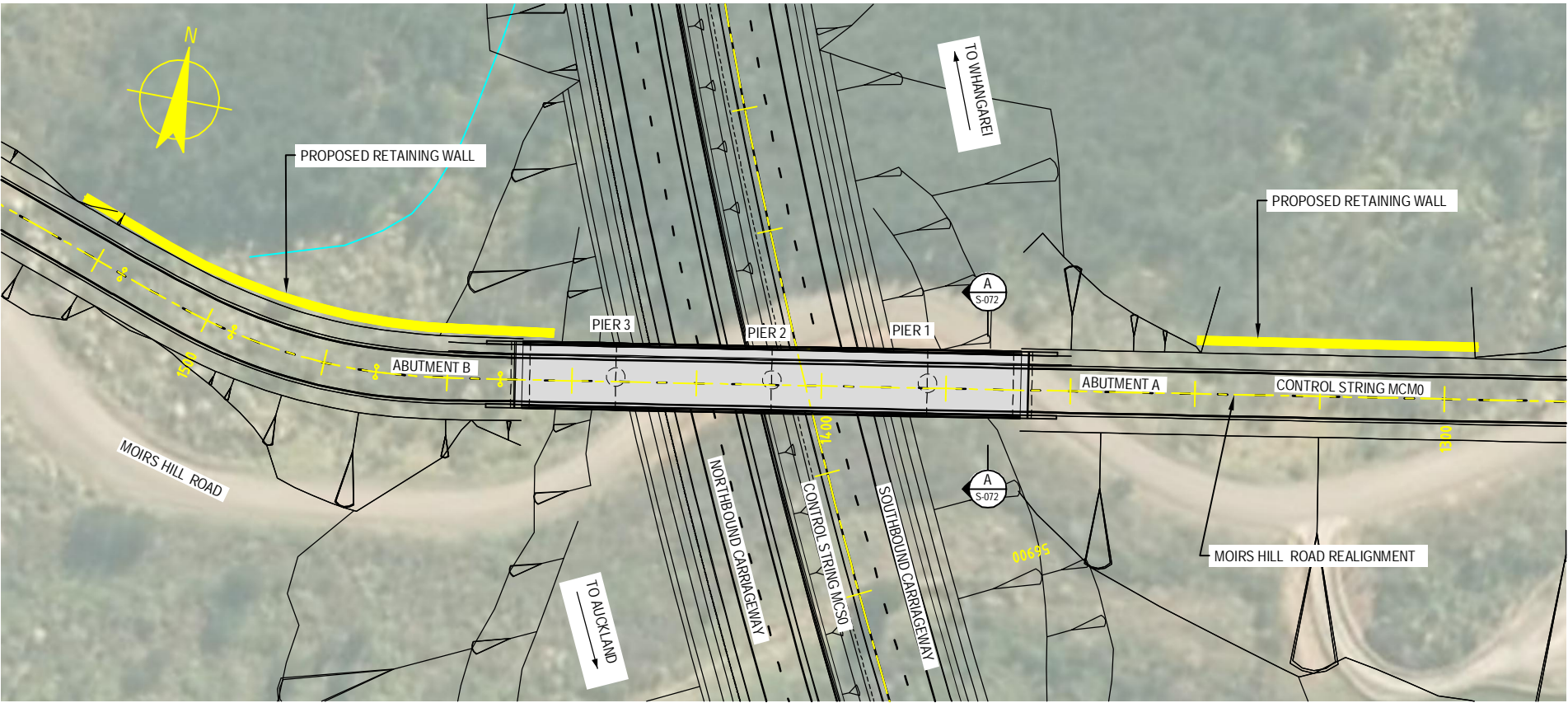


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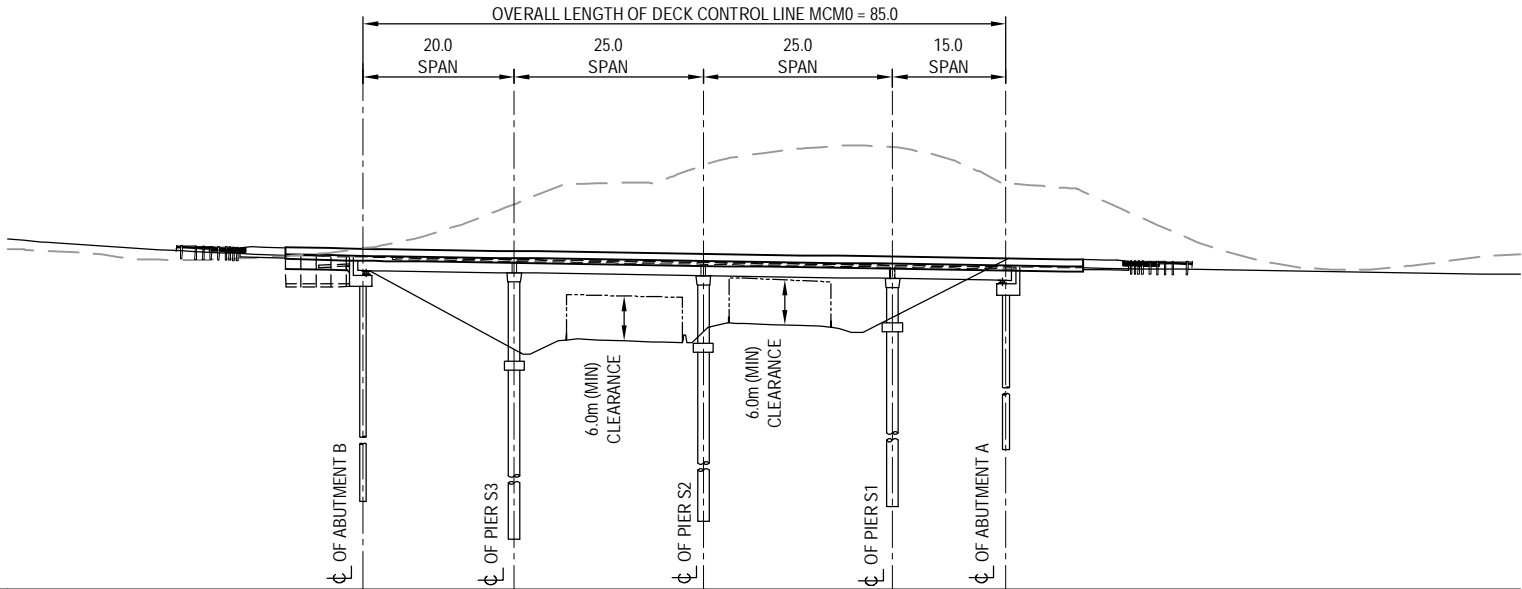
ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

SCHEDEWYS VIADUCT			
TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-062	AMD: 0

S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\S-071\_S-072.dwg Plot Date: 15 August, 2013 - 9:01 AM



PLAN  
SCALE 1:1000 @ A3 SIZE



DATUM= 150.000

DESIGN SURFACE LEVEL	196.221	194.822	193.996	193.645	193.345	193.045	192.745	192.445	192.145	191.845					
EXISTING SURFACE LEVEL	194.883	193.498	194.211	198.127	203.651	207.575	207.922	202.966	194.880	192.215					
CHAINAGE	1500.000 1495.479	1480.000	1471.509	1460.000	1453.000	1440.000	1433.000	1420.000	1408.000	1400.000	1383.000 1380.000	1368.000	1360.000	1340.000	1320.000

LONGITUDINAL SECTION ON CONTROL STRING MCM0

HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



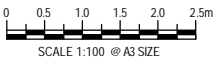
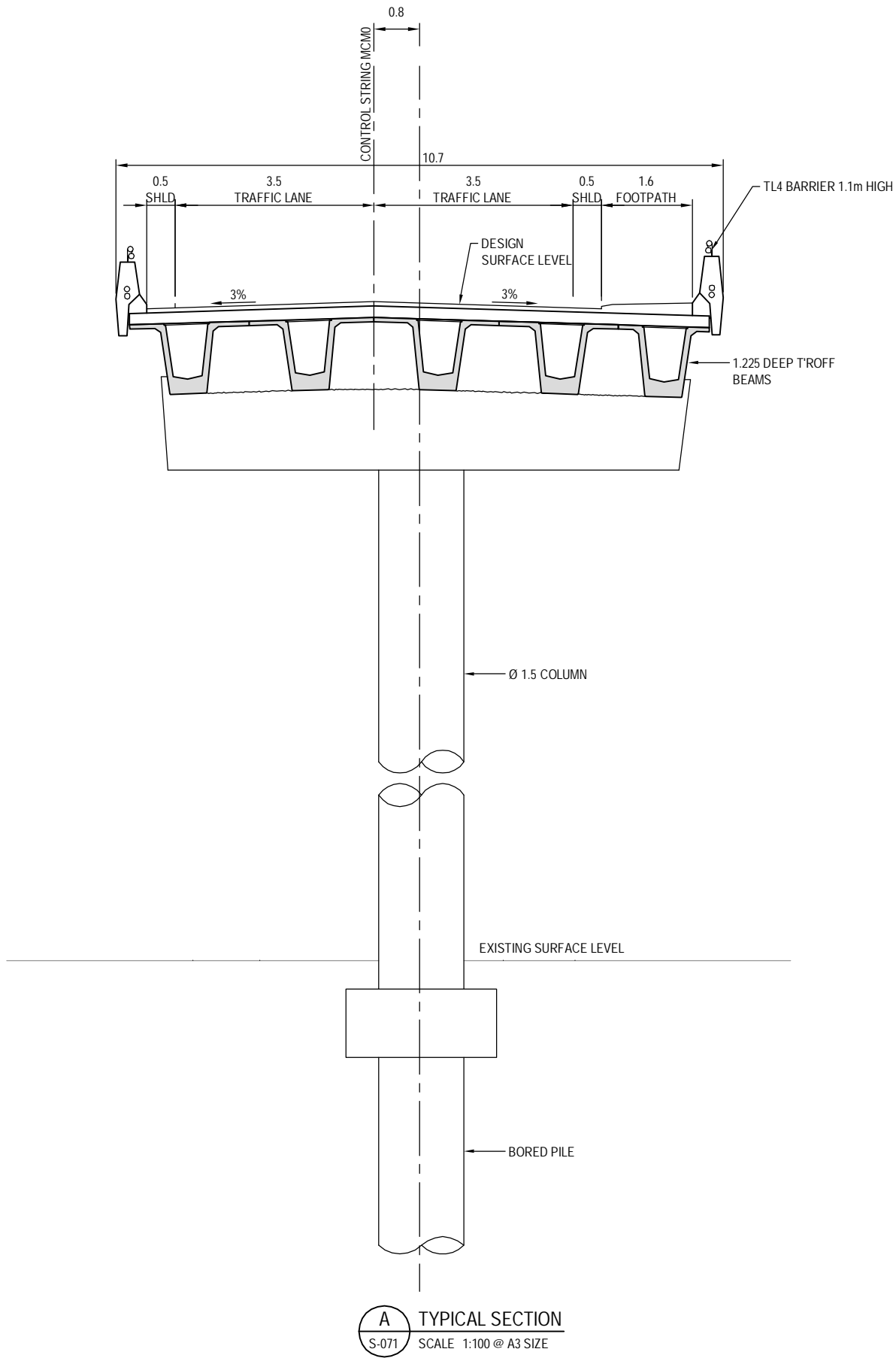
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ARA TUHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

MOIRS HILL ROAD UNDERPASS GENERAL ARRANGEMENT PLAN AND LONGITUDINAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-071	AMDT: 0



S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\S-071\_S-072.dwg Plot Date: 16 August, 2013 - 2:22 PM



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



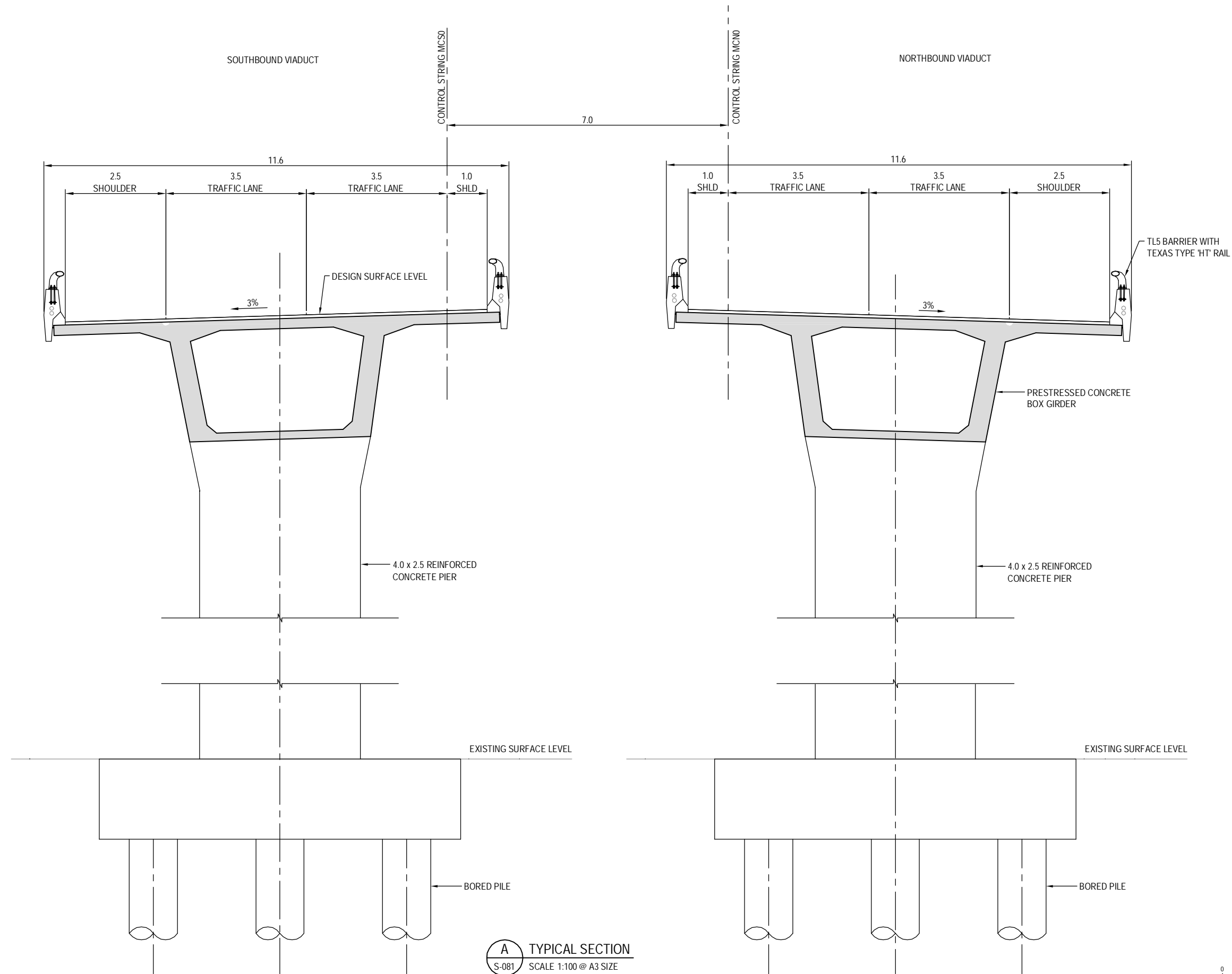
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ARA TUHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

MOIRS HILL ROAD UNDERPASS TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-072	AMDT: 0



S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\300.5-082.dwg Plot Date: 16 August, 2013 - 2:27 PM



A TYPICAL SECTION  
S-081 SCALE 1:100 @ A3 SIZE

AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT
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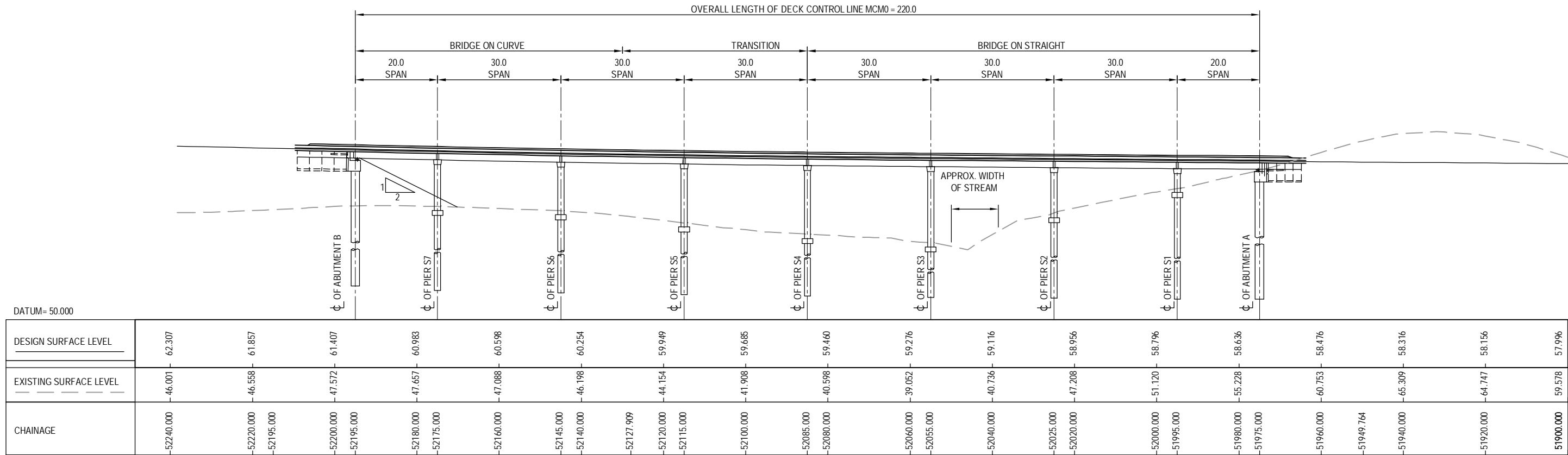
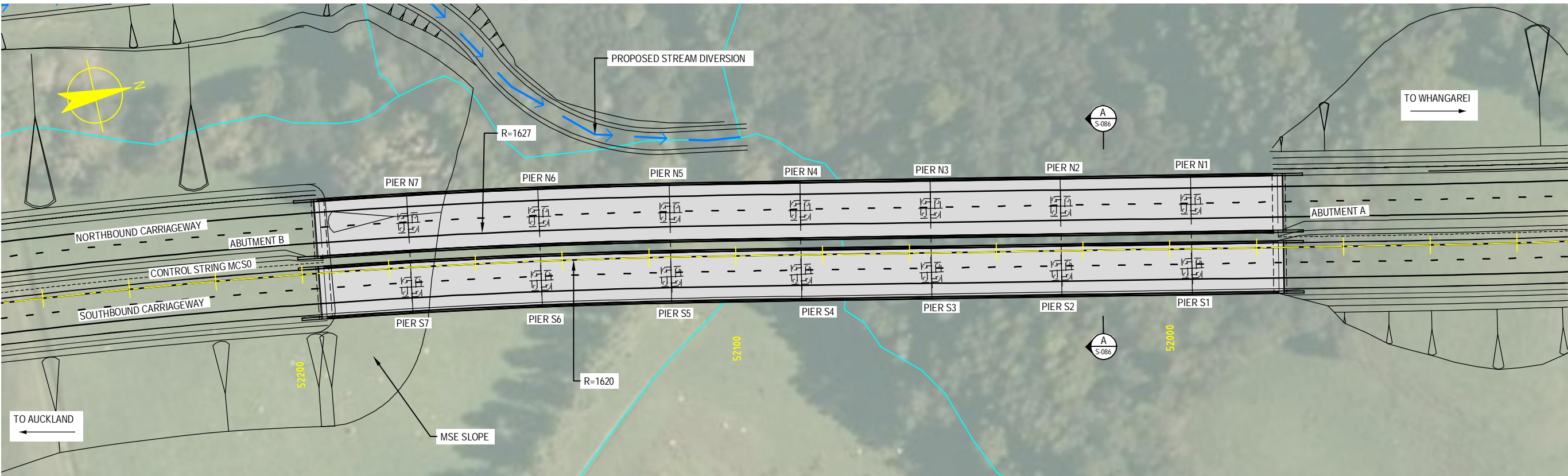
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK IH	REVIEWED DISCIPLINE MANAGER MRH	APPROVED ALLIANCE MANAGER TI
DESIGNED IH	DESIGN REVIEW RET		

PERRY ROAD VIADUCT TYPICAL SECTION			
SCALE AS SHOWN	CONTRACT No PA3748	DRAWING No S-082	AMD 0



S:\Further North - PAA\3300 Design\3300 5 Technical\01-Drawing Production\CADD Drawings\3300\_5\_S-085.dwg Plot Date: 16 August, 2013 - 12:21 PM



LONGITUDINAL SECTION ON CONTROL STRING MCS0  
HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APPR'D A. MGR	PURPOSE OF ISSUE / AMENDMENT



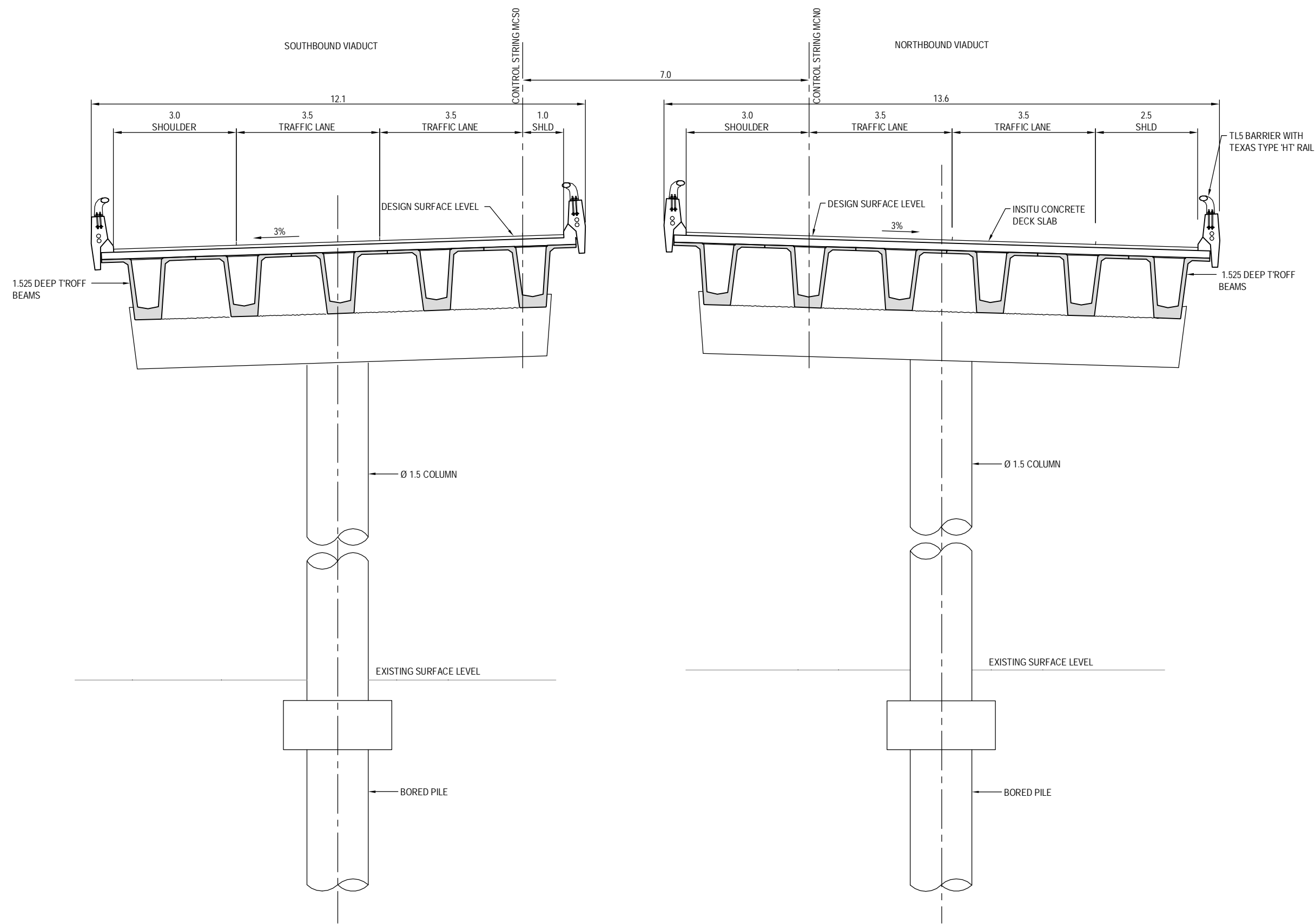
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED: DISCIPLINE MANAGER: MRH	APPROVED: ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

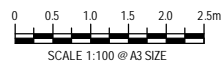
KAURI ECO VIADUCT  
GENERAL ARRANGEMENT  
PLAN AND LONGITUDINAL SECTION

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-085	AMDT: 0
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S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\S-085\_S-086.dwg Plot Date: 16 August 2013 12:20 PM



A TYPICAL SECTION  
S-085 SCALE 1: 1:100 @ A3 SIZE



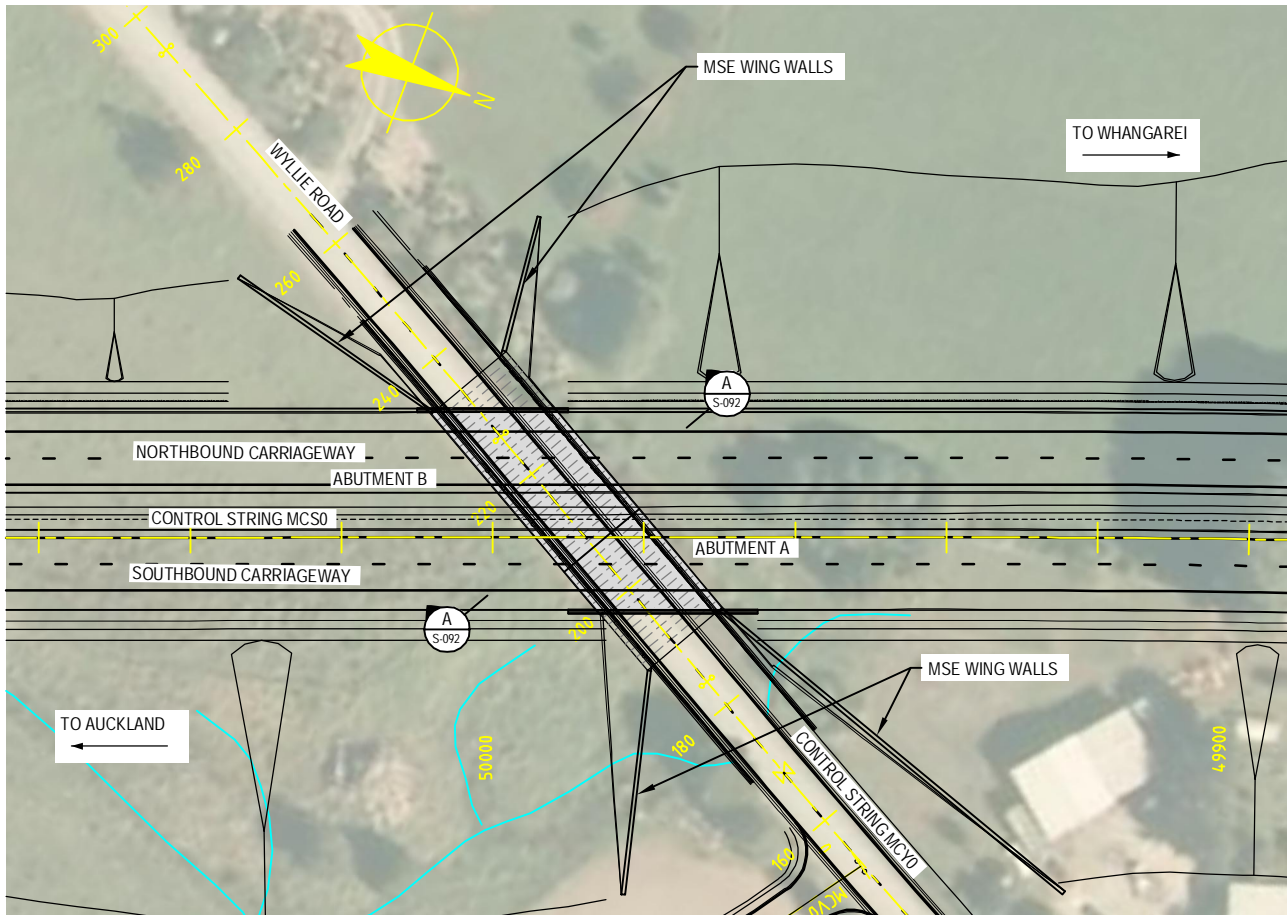
0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

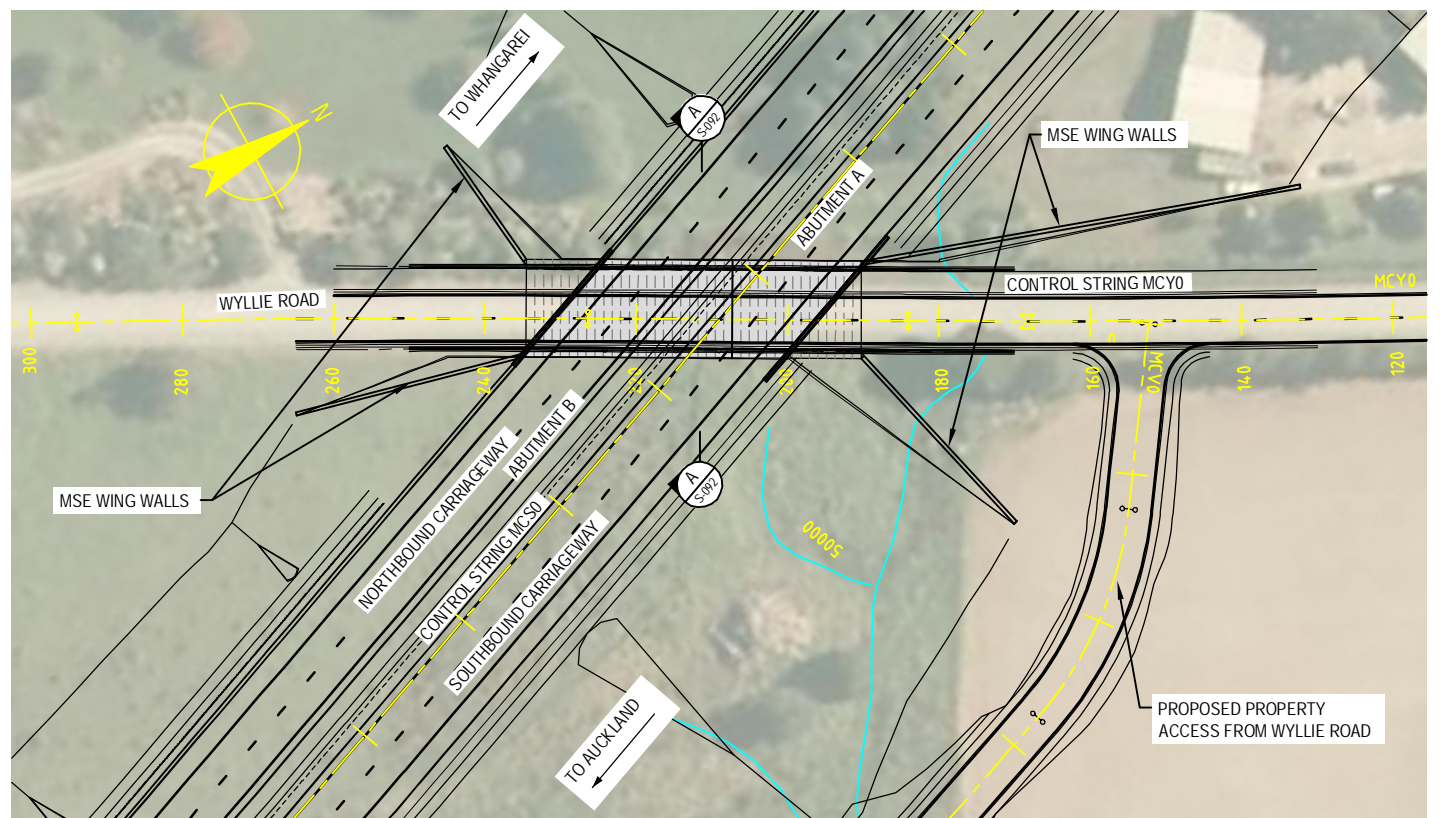
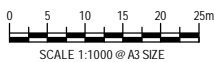
KAURI ECO VIADUCT TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-086	AMD: 0



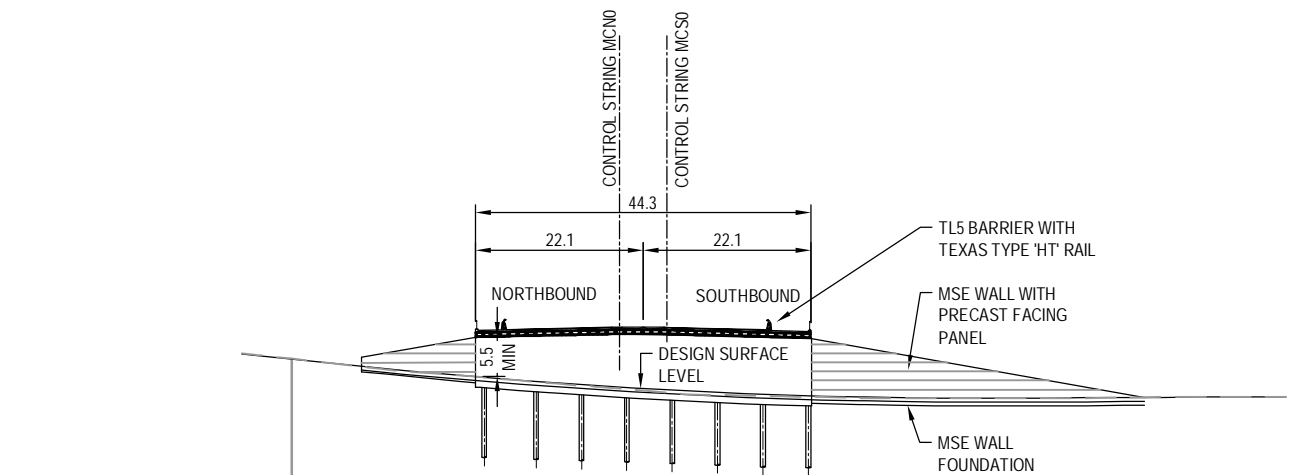
PLAN  
SCALE 1:1000 @ A3 SIZE

DATUM= 31.000				
DESIGN SURFACE LEVEL	43.302	43.202	43.102	43.002
EXISTING SURFACE LEVEL	34.281	34.076	33.477	33.526
CHAINAGE	-50020.000	-50000.000	-49980.000	-49960.000

LONGITUDINAL SECTION ON CONTROL STRING MCS0

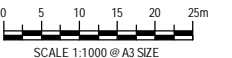


PLAN  
SCALE 1:1000 @ A3 SIZE



DATUM= 15.000							
DESIGN SURFACE LEVEL	39.046	37.089	35.547	34.504	33.961	33.907	34.007
EXISTING SURFACE LEVEL	39.100	37.040	35.402	34.228	33.885	33.852	34.047
CHAINAGE	260.000	240.000	226.402	200.000	184.076	160.000	140.000

LONGITUDINAL SECTION ON CONTROL STRING MCY0



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



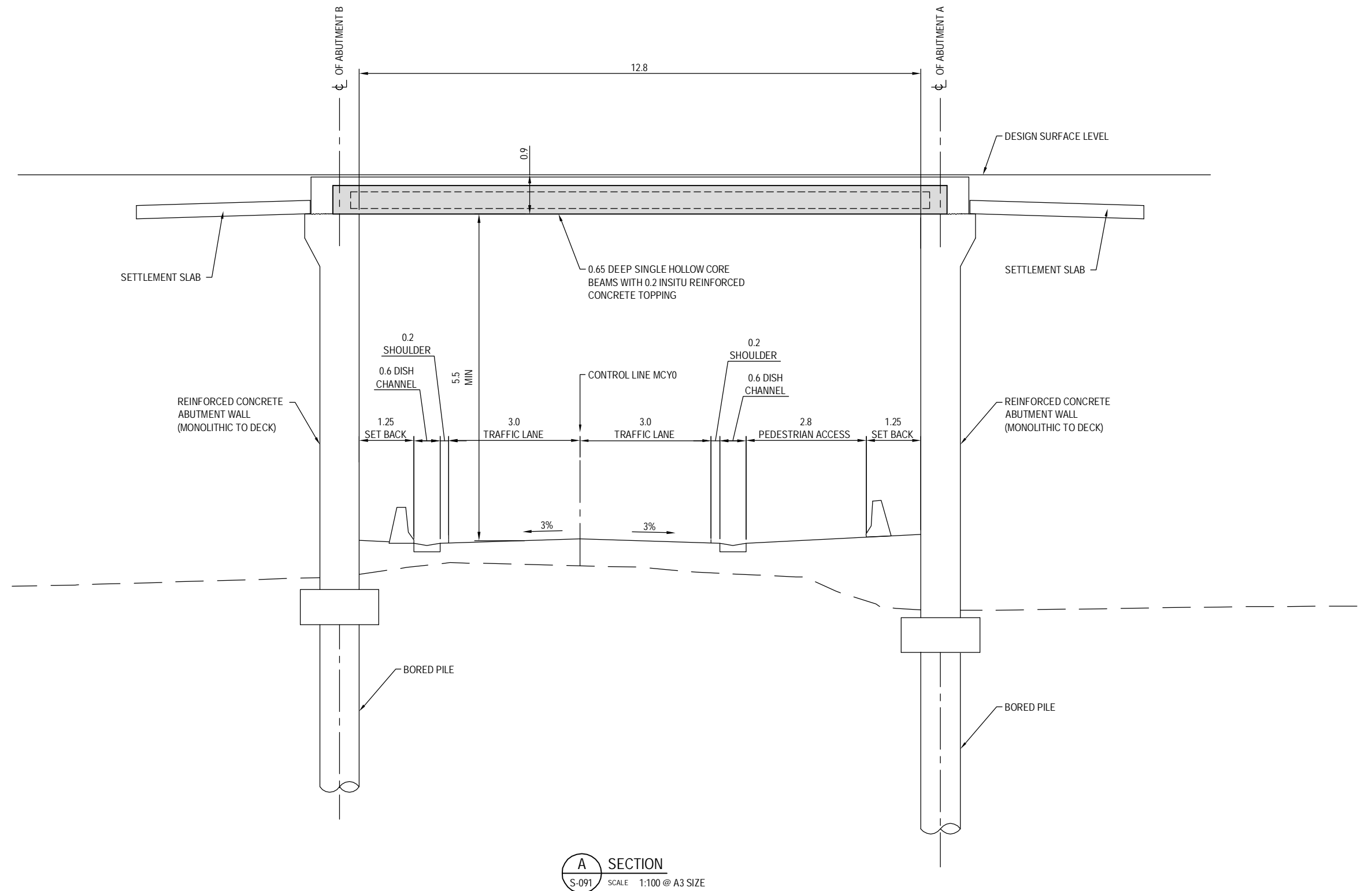
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

WYLLIE ROAD OVERPASS GENERAL ARRANGEMENT PLAN AND LONGITUDINAL SECTIONS			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-091	AMDT: 0



S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\S-091\_S-092.dwg Plot Date: 16 August, 2013 - 2:35 PM



A SECTION  
S-091 SCALE 1:100 @ A3 SIZE

0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT

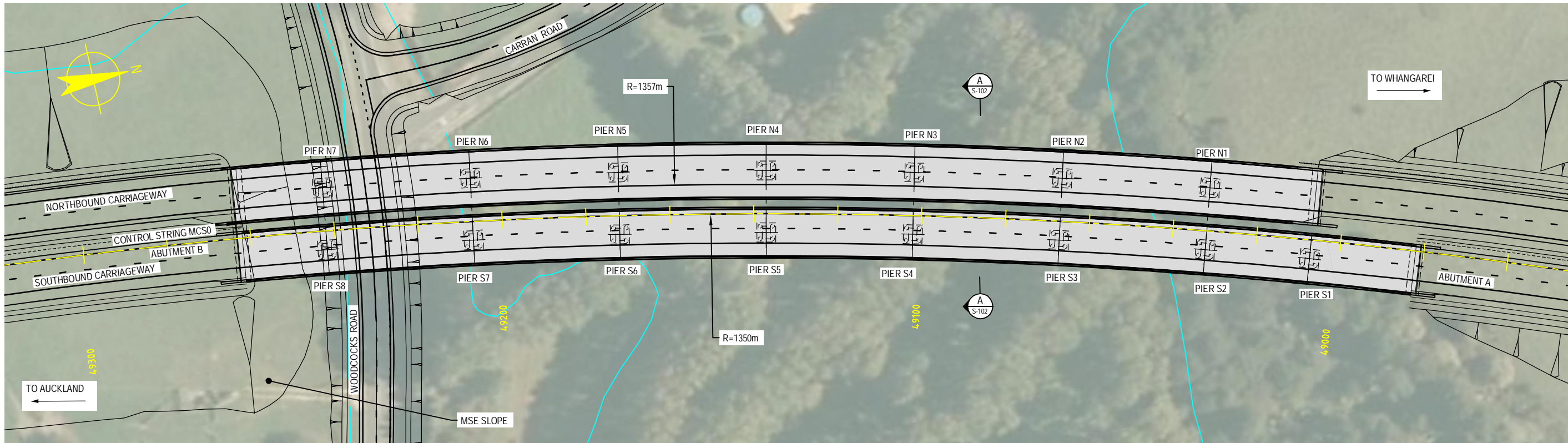


**DISCLAIMER**  
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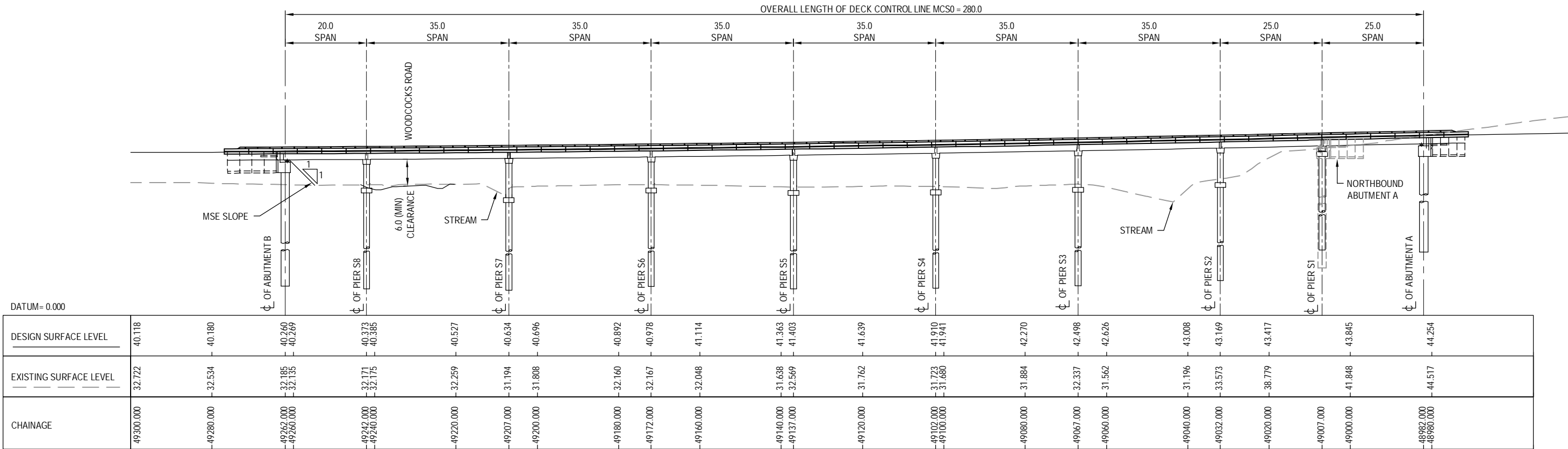
ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK IH	REVIEWED DISCIPLINE MANAGER MRH	APPROVED ALLIANCE MANAGER TI
DESIGNED IH	DESIGN REVIEW RET		

WYLLIE ROAD OVERPASS TYPICAL SECTION			
SCALE AS SHOWN	CONTRACT No PA3748	DRAWING No S-092	AMDT 0

S:\Further North - PAA\3300 Design\3300 5 Technical\01-Drawing Production\CADD\Drawings\3300\_5\_S-102.dwg Plot Date: 16 August, 2013 - 2:47 PM



PLAN  
SCALE 1:1000 @ A3 SIZE



LONGITUDINAL SECTION ON CONTROL STRING MCS0

HORIZONTAL SCALE 1:1000 @ A3  
VERTICAL SCALE 1:1000 @ A3



0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT

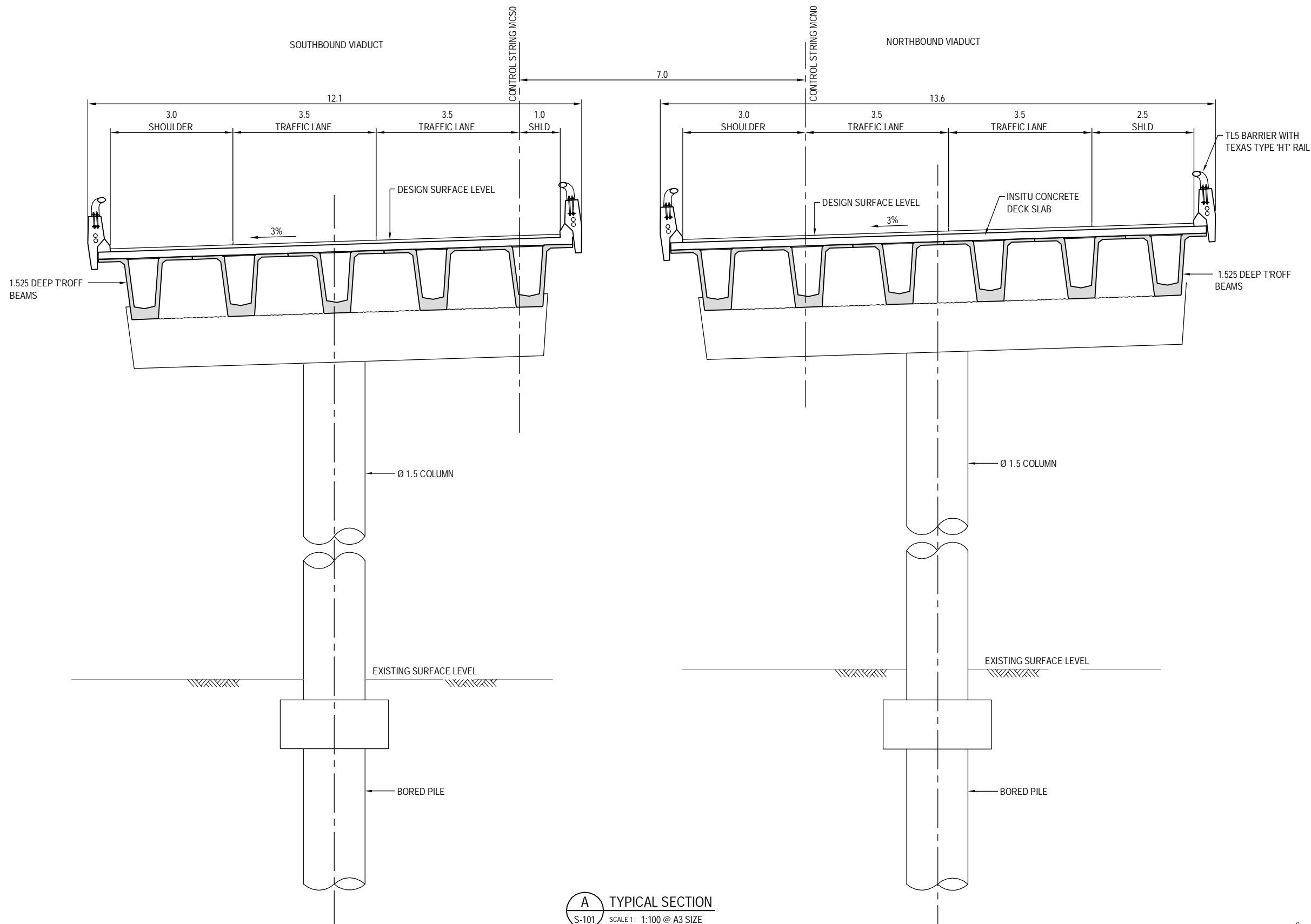


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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

WOODCOCKS ROAD VIADUCT GENERAL ARRANGEMENT PLAN AND LONGITUDINAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-101	AMDT: 0

S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\S-101\_S-102.dwg Plot Date: 16 August, 2013 - 2:48 PM



AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT



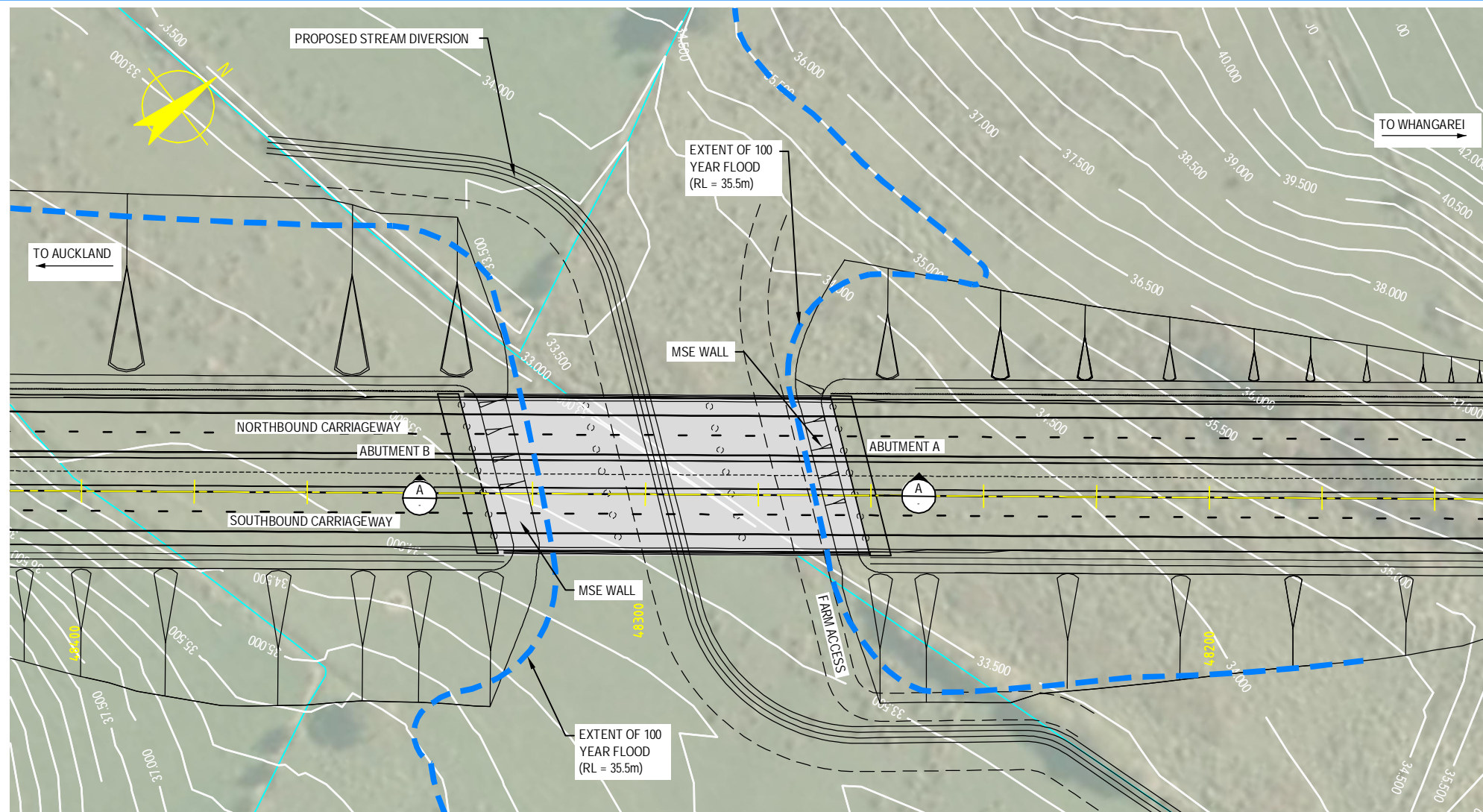
**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

WOODCOCKS ROAD VIADUCT			
TYPICAL SECTION			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-102	AMDT: 0

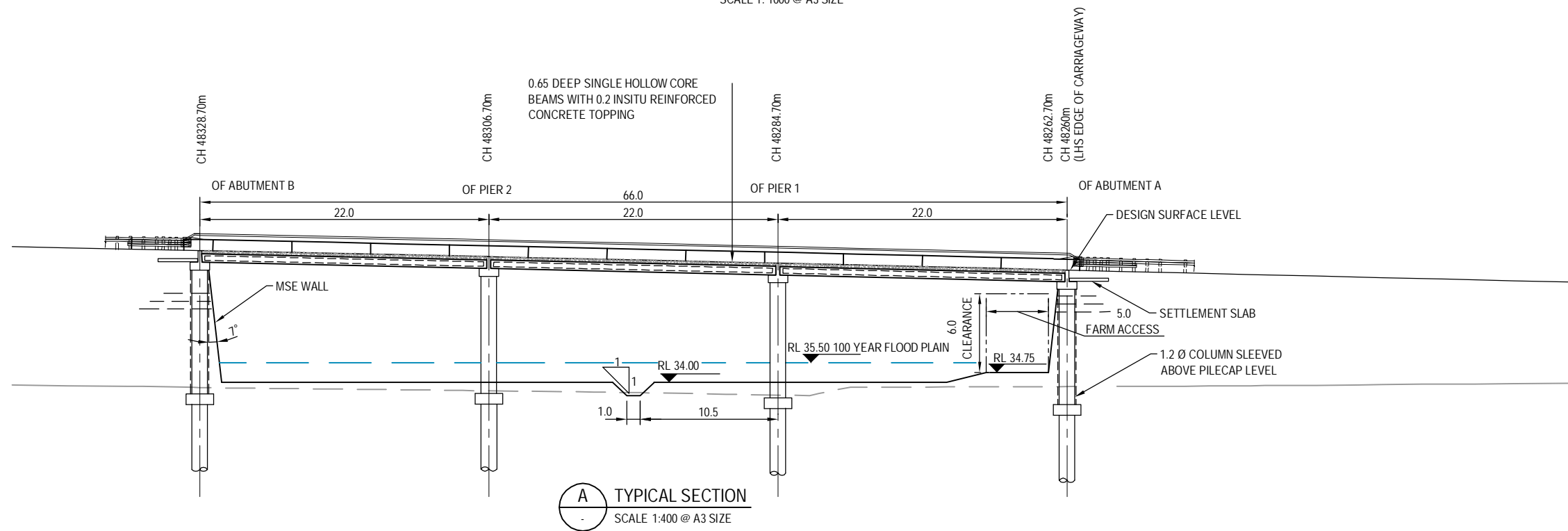


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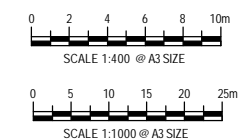


PLAN

SCALE 1: 1000 @ A3 SIZE



A TYPICAL SECTION  
SCALE 1:400 @ A3 SIZE



AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT



DISCLAIMER

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ARA TŪHONO - PŪHOI TO WELLSFORD  
PŪHOI TO WARKWORTH - FOR RMA APPROVALS

DRAWN: SP / AN	DRAFTING CHECK: IH	REVIEWED DISCIPLINE MANAGER: MRH	APPROVED ALLIANCE MANAGER: TI
DESIGNED: IH	DESIGN REVIEW: RET		

CARRAN ROAD FLOOD RELIEF BRIDGE  
GENERAL ARRANGEMENT  
PLAN AND ELEVATION

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: S-111	AMDT: 0
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