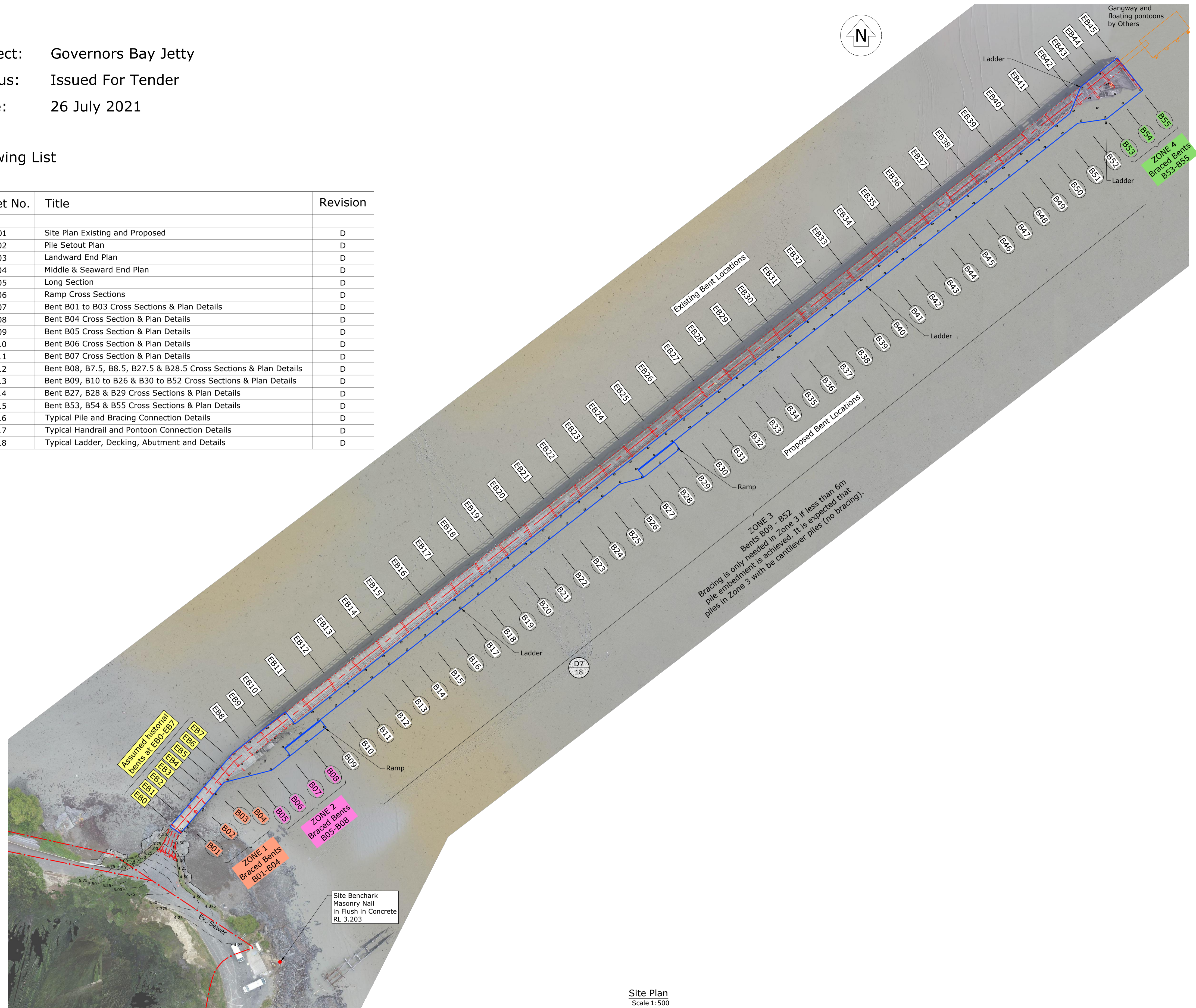


Project: Governors Bay Jetty
 Status: Issued For Tender
 Date: 26 July 2021

Drawing List

Sheet No.	Title	Revision
01	Site Plan Existing and Proposed	D
02	Pile Setout Plan	D
03	Landward End Plan	D
04	Middle & Seaward End Plan	D
05	Long Section	D
06	Ramp Cross Sections	D
07	Bent B01 to B03 Cross Sections & Plan Details	D
08	Bent B04 Cross Section & Plan Details	D
09	Bent B05 Cross Section & Plan Details	D
10	Bent B06 Cross Section & Plan Details	D
11	Bent B07 Cross Section & Plan Details	D
12	Bent B08, B7.5, B8.5, B27.5 & B28.5 Cross Sections & Plan Details	D
13	Bent B09, B10 to B26 & B30 to B52 Cross Sections & Plan Details	D
14	Bent B27, B28 & B29 Cross Sections & Plan Details	D
15	Bent B53, B54 & B55 Cross Sections & Plan Details	D
16	Typical Pile and Bracing Connection Details	D
17	Typical Handrail and Pontoon Connection Details	D
18	Typical Ladder, Decking, Abutment and Details	D



ZONE 3
 Bents B09 - B52
 Bracing is only needed in Zone 3 if less than 6m
 pile embedment is achieved. It is expected that
 piles in Zone 3 will be cantilever piles (no bracing).

Site Plan
 Scale 1:500

Notes:
General:
 - All work shall comply with the New Zealand Building Code.
 - The Contractor shall check all dimensions onsite prior to commencing work.
 - The project drawings shall be read in conjunction with the specification. Any discrepancies shall be referred to the Engineer for review and approval prior to proceeding.
 - On completion of the work, the contractor shall provide PS3 Construction Producer Statements for the construction work. The form of the PS3 shall be as per the Christchurch City Council Standard Form B-085.

Workmanship:
 - Timber construction shall be undertaken in accordance with best trade practice, and this shall be deemed to include those methods, practises and processes contained in current syllabuses for New Zealand Trade Certificates in carpentry, joinery and New Zealand Timber Industry Federation Timber Design Guide. Reference should also be made to the appropriate New Zealand Standards.
 - All steelwork, fabrication, welding and erection shall comply with NZS3404:1997 & NZS5131. Where conflicts exist, the stricter requirements shall apply.

Timber Grades:
 Decking, balustrade framing (posts, rails and toe kicks):
 - Eucalyptus Globoides Heart Wood.
 - No sapwood or corewood. Corewood includes the pith plus surrounding wood with a density less than 80% that of the density of mature trees.
 - Visual graded in accordance with AS2082:2007 to achieve:
 - Balustrade Framing & Decking - Structural Grade 3
 - Minimum characteristic properties:
 -- Bending strength $f_b = 48\text{MPa}$
 -- Modulus of elasticity $E = 13.6\text{GPa}$
 - Minimum natural durability class 2 to AS5604, equivalent to hazard class H3.2 to DZ3602.

Stringer Beams, Pile Capping Beams and Balustrade Under Deck Blocking:
 - Mixed Australian hardwoods.
 - To comply with AS3818.7.
 - Minimum stress grade F27 to AS1720.1
 - Minimum natural durability class 1 to AS5604 or natural durability class 2 with additional CCA treatment to hazard class H5.

Ramp timber including stringers, associated capping beams and deck planks located below high tide mark:
 - Mixed Australian hardwoods.
 - To comply with AS3818.7.
 - Minimum stress grade F27 to AS1720.1
 - Minimum natural durability class 1 & marine borer durability class 1 to AS5604 or, natural durability class 2 with additional CCA treatment to hazard class H6.

300 SED piles:
 - Mixed Australian hardwoods.
 - To comply with AS3818.3.
 - Minimum stress grade F22.
 - Minimum durability class 2 to AS5604 with additional CCA treatment to hazard class H6.

Bracing:
 - NZ Radiata Pine round timber - TTT UniLog.
 - Minimum outer zone density of 450kg/m³.
 - CCA treatment to hazard class H6.

Timber Fixings:
 - All steel fixings for timber shall be from grade 316 stainless steel with 2B finish or better.
 - Decking screws to be 14 gauge x 100 long, Type 17 bugle head from grade 316 stainless steel.
 - Balustrade rail bolts & associated washers & nuts may be hot dip galvanised.
 - Unless noted otherwise, every bolt/threaded rod shall be fitted into prebored holes of a diameter approximately 10% greater than the bolt diameter and be provided with grade 316 stainless steel washers under both heads and nuts as follows:
 -- M24: 26mm diameter hole with 75x75x6mm square washers
 -- M20: 22mm diameter hole with 60x60x5mm square washers
 -- M16: 18mm diameter hole with 60x60x5mm square washers
 -- M12: 14mm diameter hole with 50x50x3mm square washers
 -- M10: 12mm diameter hole with 40x40x3mm square washers
 - All coach screws shall be fitted into prebored holes of a diameter equivalent to the bolt shank diameter.
 - Washers shall be sufficiently recessed into all timber faces to full face contact with the timber member.
 - Threaded ends to extend 10-15mm past nut and be burred off to prevent malicious removal.
 - All holes for bolts/threaded rods shall be packed with grease prior to fitting washers and nuts.
 - To accommodate shrinkage of jetty members the contractor shall allow to check and tighten all associated nuts after 11 months following the construction of the jetty before burring threads.
 - Bolt hole locations and timber edge distance dimensions as detailed shall have a tolerance of +/-5mm.

Moisture Content
 Moisture content of decking at the time of installation shall be less than 20% to minimise cupping.

Post Treatment of Cut Timber
 Treat the following timber features with a preservative such as 2 coats of Metalex Timber Preservative (or similar approved) in accordance with NZS 3640.
 - Cut ends, notches, recesses and drilled holes to timber framing located below R.L. = 2.9m.
 - Cut ends, notches and recesses to timber stringers and associated balustrade blocking.

Timber Distortions
 - Timber beams shall be placed with natural camber up.
 - The Contractor shall allow to correct horizontal bowing of Eucalyptus Globoides stringer beams by placing them such that adjacent beams have opposing bows and installing midspan blocking. Refer typical detail on drawing Sheet 18.

Tenderers to ignore these comments.
 EG not used for stringers. Comments to be corrected in later revision of drawings.

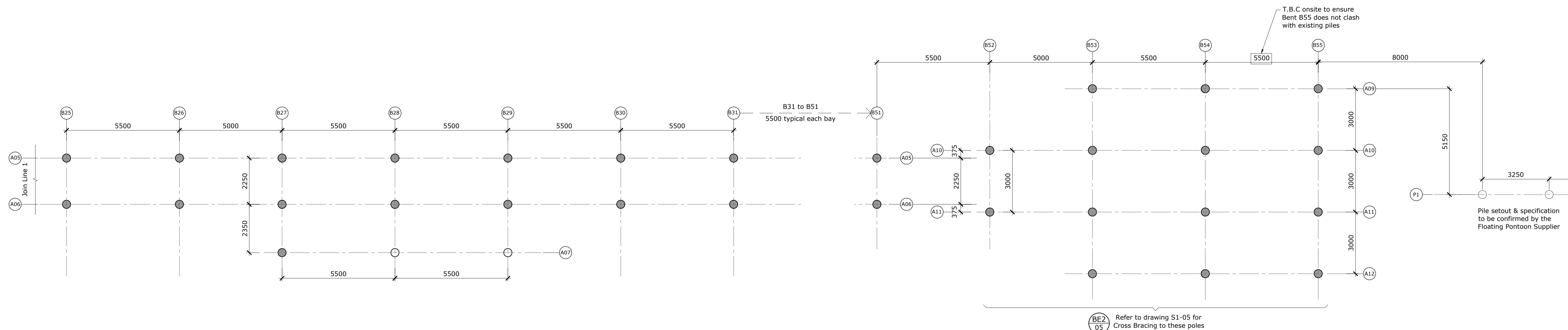
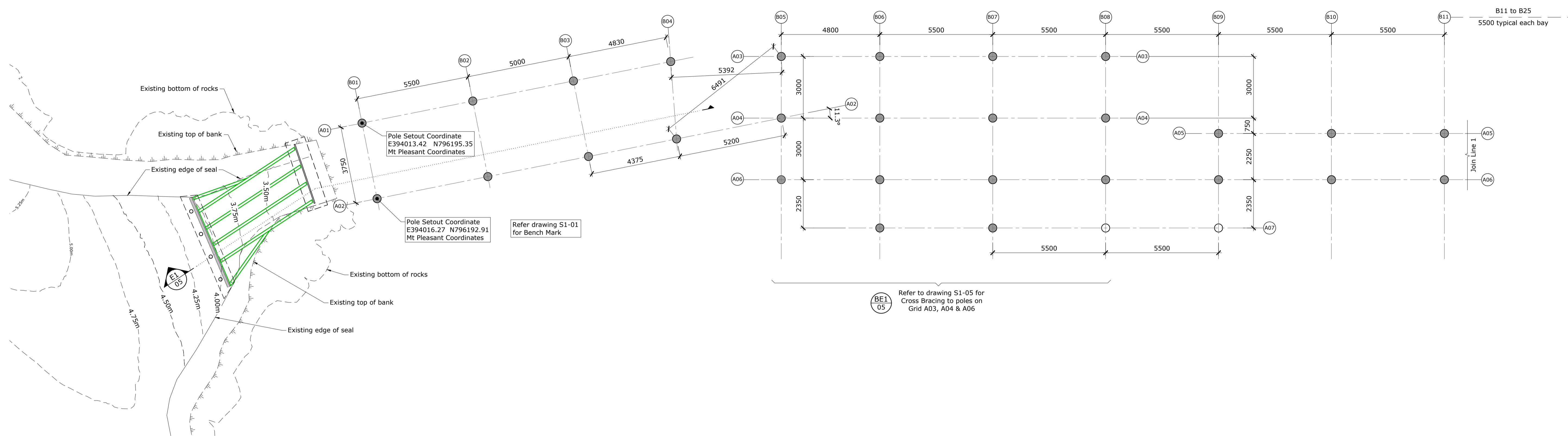
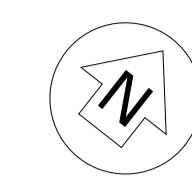
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B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Dr. Chk T. Armstrong	30.01.2020
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr N. Harwood	31.01.2020
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				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			

Client

Project Title	Governors Bay Jetty	
Drawing Title	Site Plan Existing and Proposed	
Scales	1:500 [A1]	1:1000 [A3]

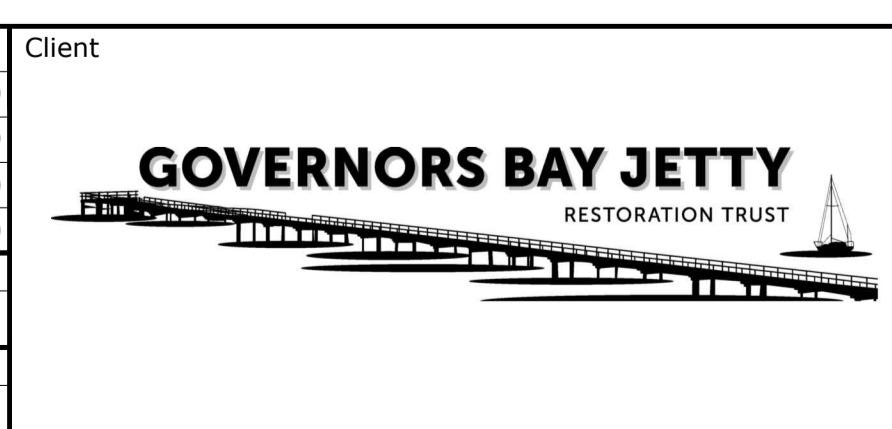
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Set No.	S1	Sht No. 01
Rev.	D	

For Tender



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B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		T. Armstrong	30.01.2020
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				R.L. 55.085 (LINZ Dec 2013)			-

Designated	Name	Date
Designed	T. Armstrong	21.11.2019
Drawn	B. Stewart	09.12.2019
Drng. Chk	T. Armstrong	30.01.2020
Proj. Mgr	N. Harwood	31.01.2020
Design Review		
Approved		

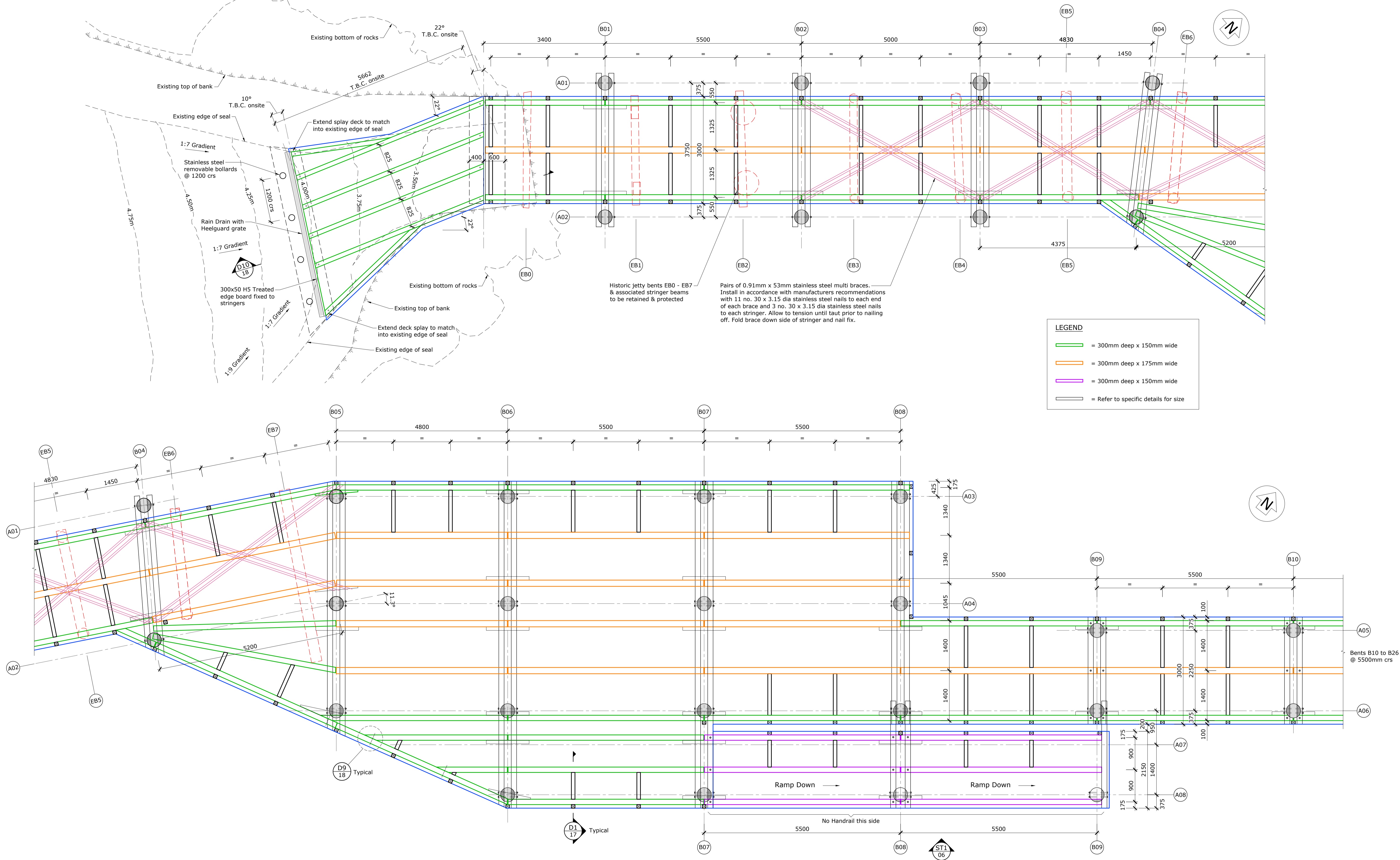


Project Title	Governors Bay Jetty	
Drawing Title	Pile Setout Plan	
Scales	1:100 [A1] 1:200 [A3]	

Project No.	409529	
Set No.	S1	Sht No. 02
Rev.	D	



For Tender



Rev.	Description	Drawn	Date	Surveyed:	Survey Date:
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Dr. Chk	T. Armstrong	30.01.2020
Proj. Mgr	N. Harwood	31.01.2020
Design Review		
Approved		

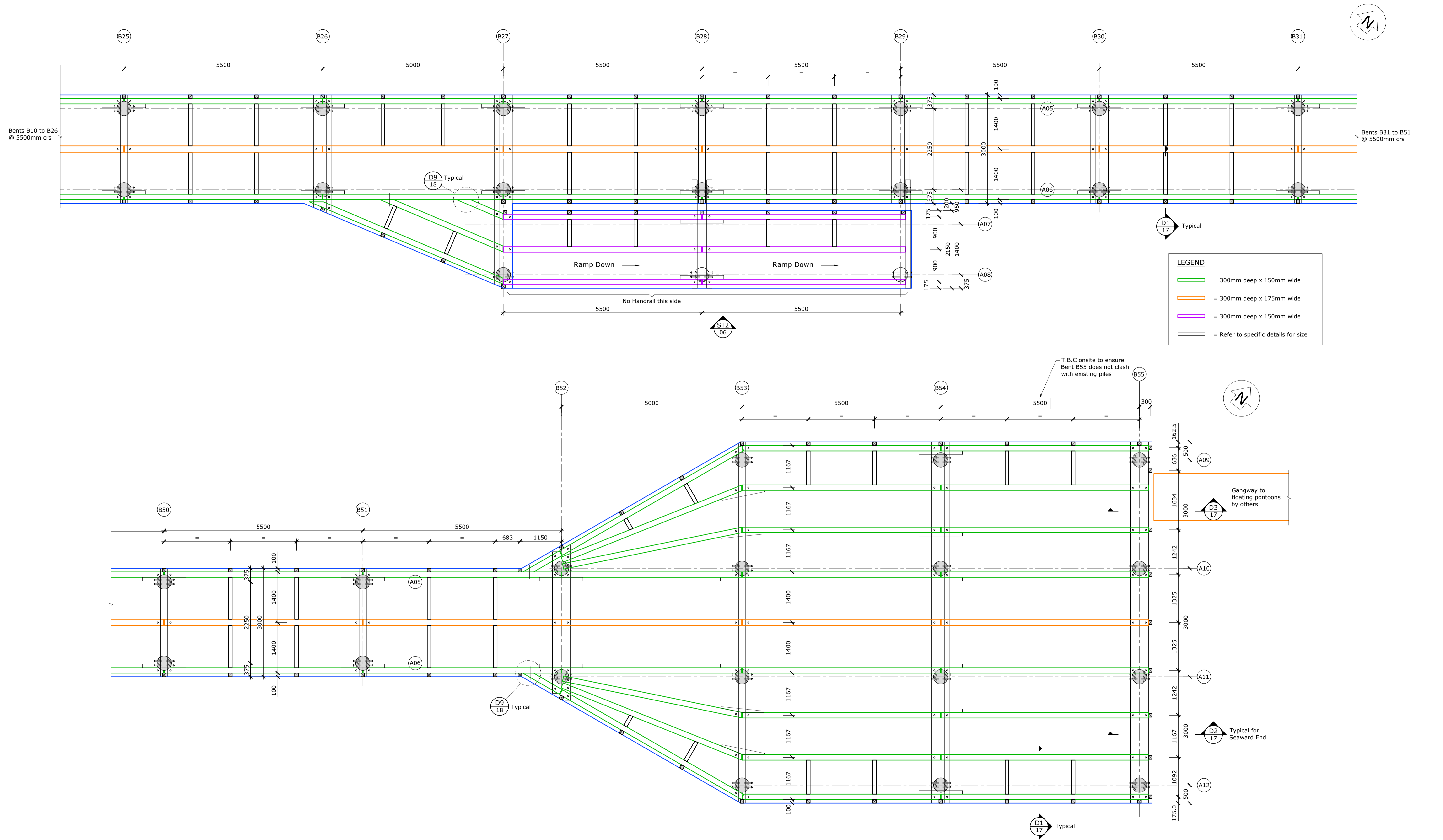
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R.L. 55.085 (LINZ Dec 2013)	

GOVERNORS BAY JETTY
RESTORATION TRUST

Project Title	Governors Bay Jetty
Drawing Title	Landward End Plan
Scales	1:50 [A1] 1:100 [A3]

Project No.	409529
Set No.	S1
Sht No.	03
Rev.	D

For Tender



LEGEND

- = 300mm deep x 150mm wide
- = 300mm deep x 175mm wide
- = 300mm deep x 150mm wide
- = Refer to specific details for size

Rev.	Description	Drawn	Date	Surveyed:	Survey Date:
A	Draft for comment	BJS	31.01.2020		
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000	
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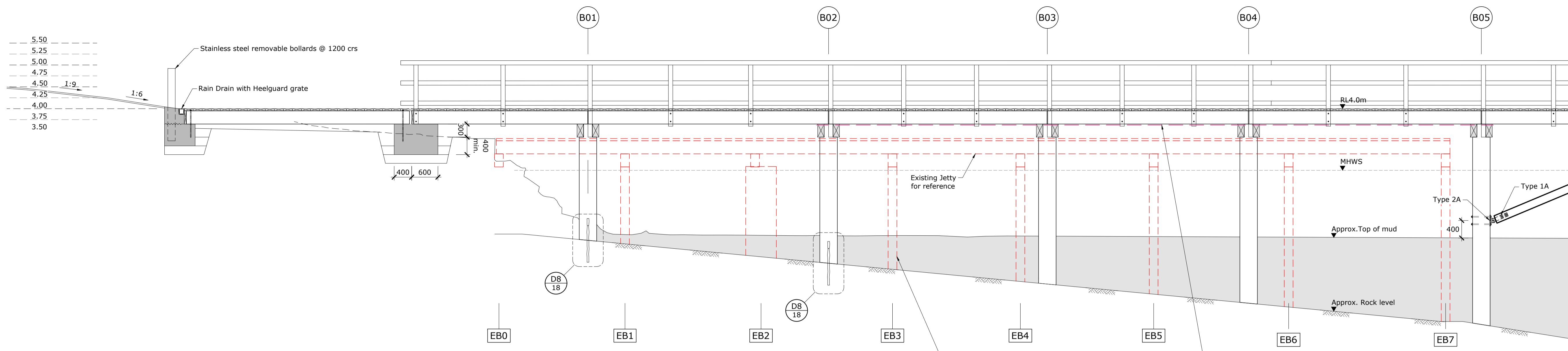
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Drawn B. Stewart	09.12.2019
Dr. Chk T. Armstrong	30.01.2020
Proj. Mgr N. Harwood	31.01.2020
Design Review	
Approved	

Client

Project Title	Governors Bay Jetty	
Drawing Title	Middle and Seaward End Plan	
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Project No.	409529	
Set No.	S1	Sht No. 04
Rev.	D	

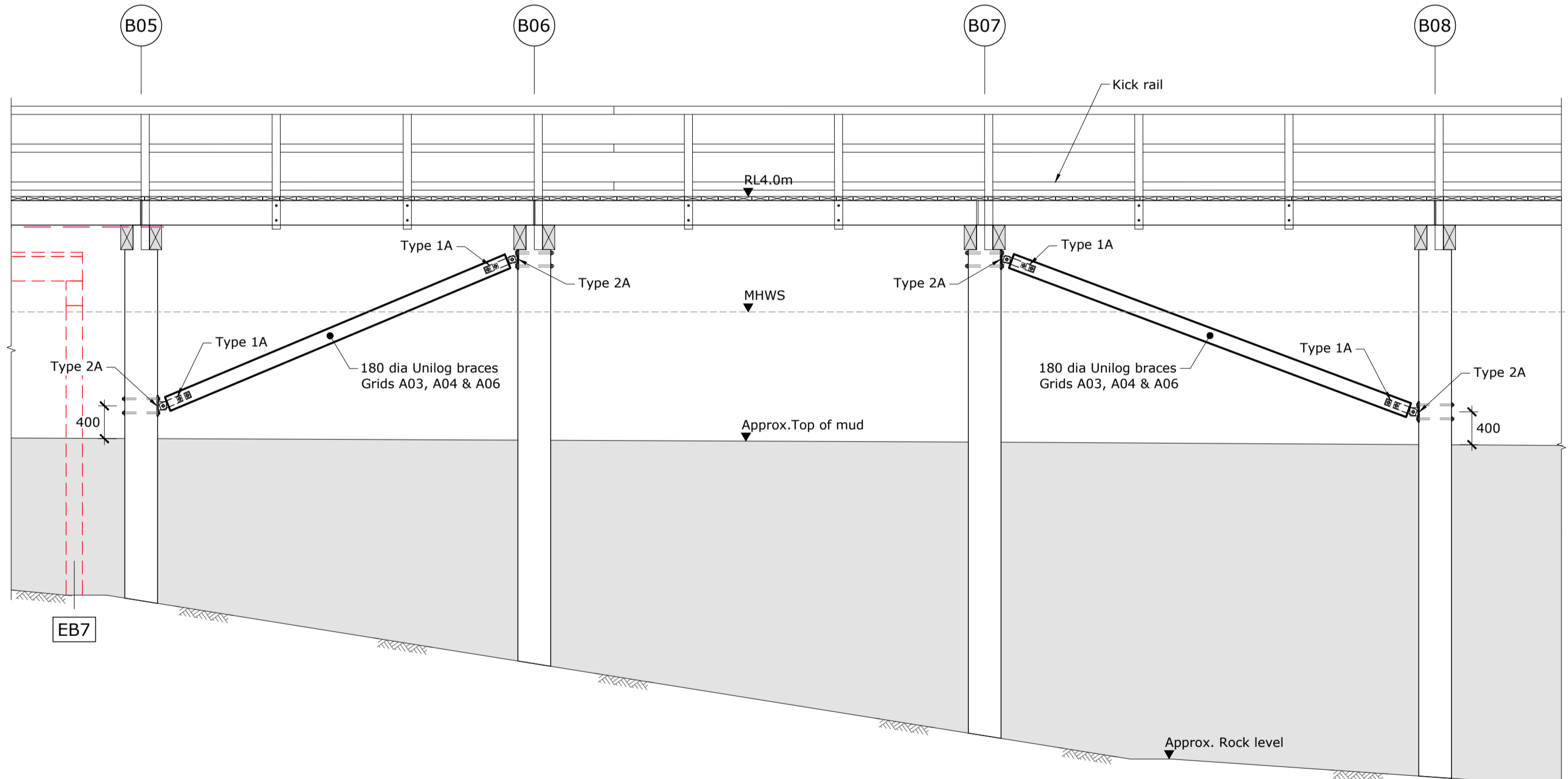
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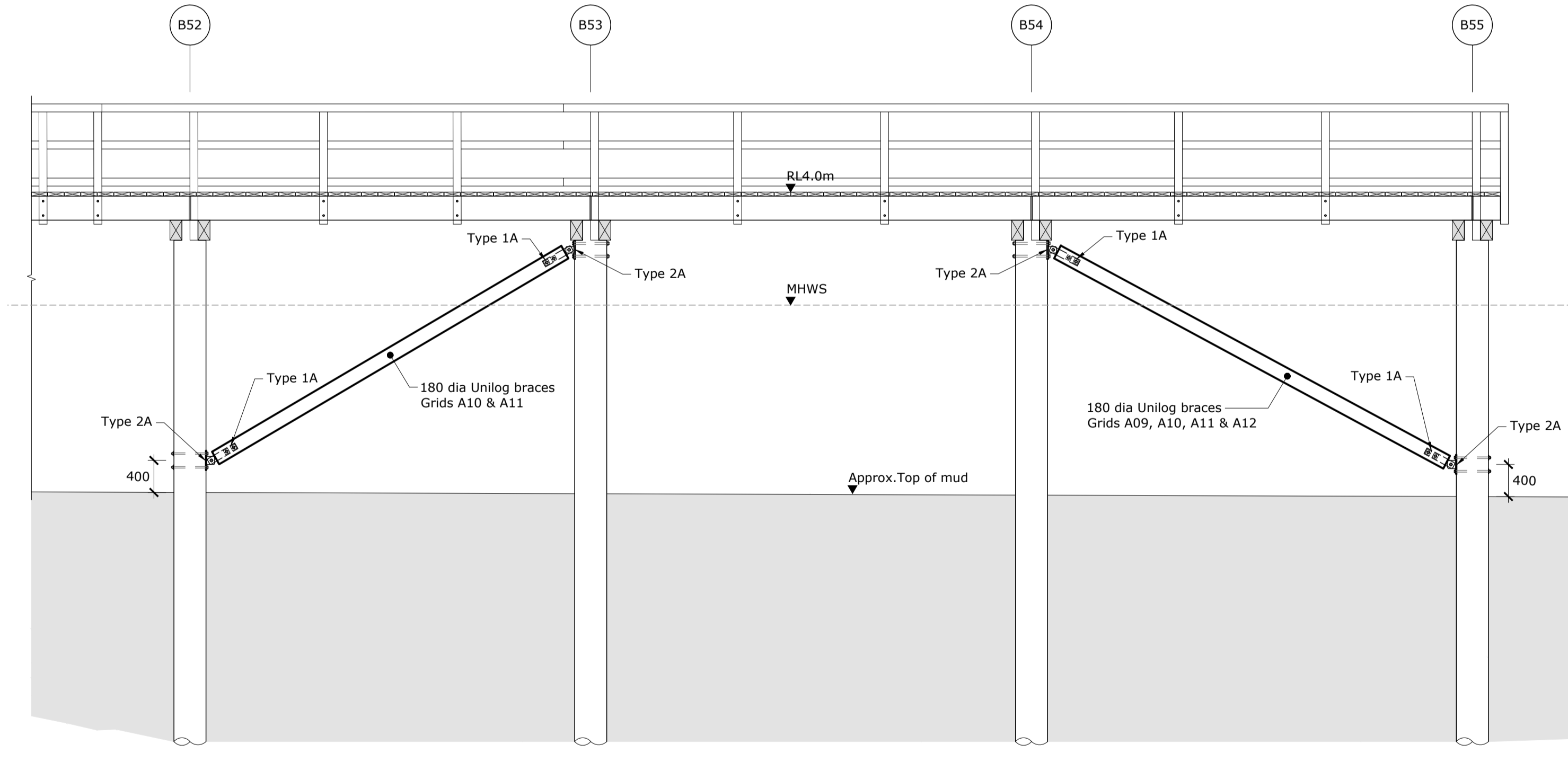
E1
02 Landward End Section/Elevation (Existing and Proposed)
Scale 1:50

Historic jetty bents EB0 - EB7 & associated stringer beams to be retained & protected

Horizontal cross bracing: (apply between Bent B02 to B05)
Pairs of 0.91mm x 53mm stainless steel multi braces.
Install in accordance with manufacturers recommendations with 11 no. 30 x 3.15 dia stainless steel nails to each end of each brace and 3 no. 30 x 3.15 dia stainless steel nails to each stringer. Allow to tension until taut prior to nailing off. Fold brace down side of stringer and nail fix.



BE1
02 Bracing Elevation BE1
Scale 1:50



BE2
02 Bracing Elevation BE2
Scale 1:50

Note:
Rock levels have been inferred from limited Geotech information and are subject to confirmation onsite by the Piling Contractor.

For Tender

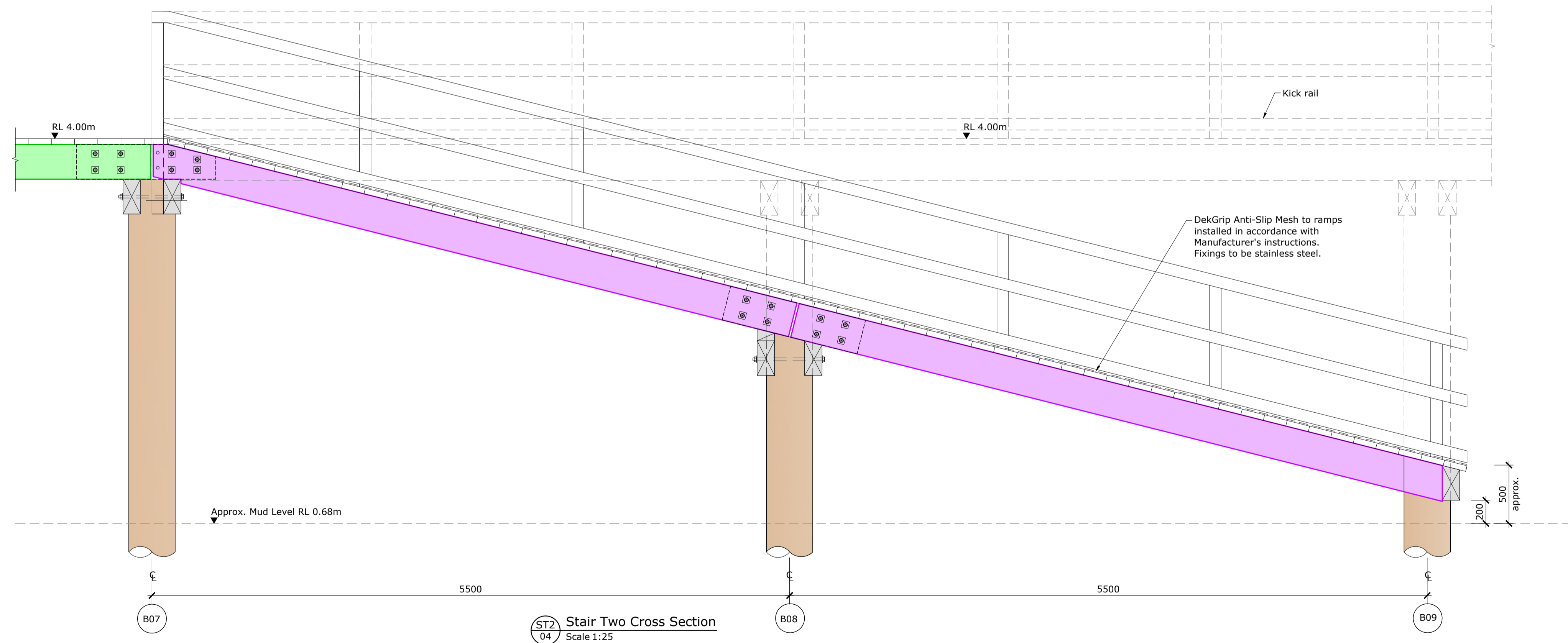
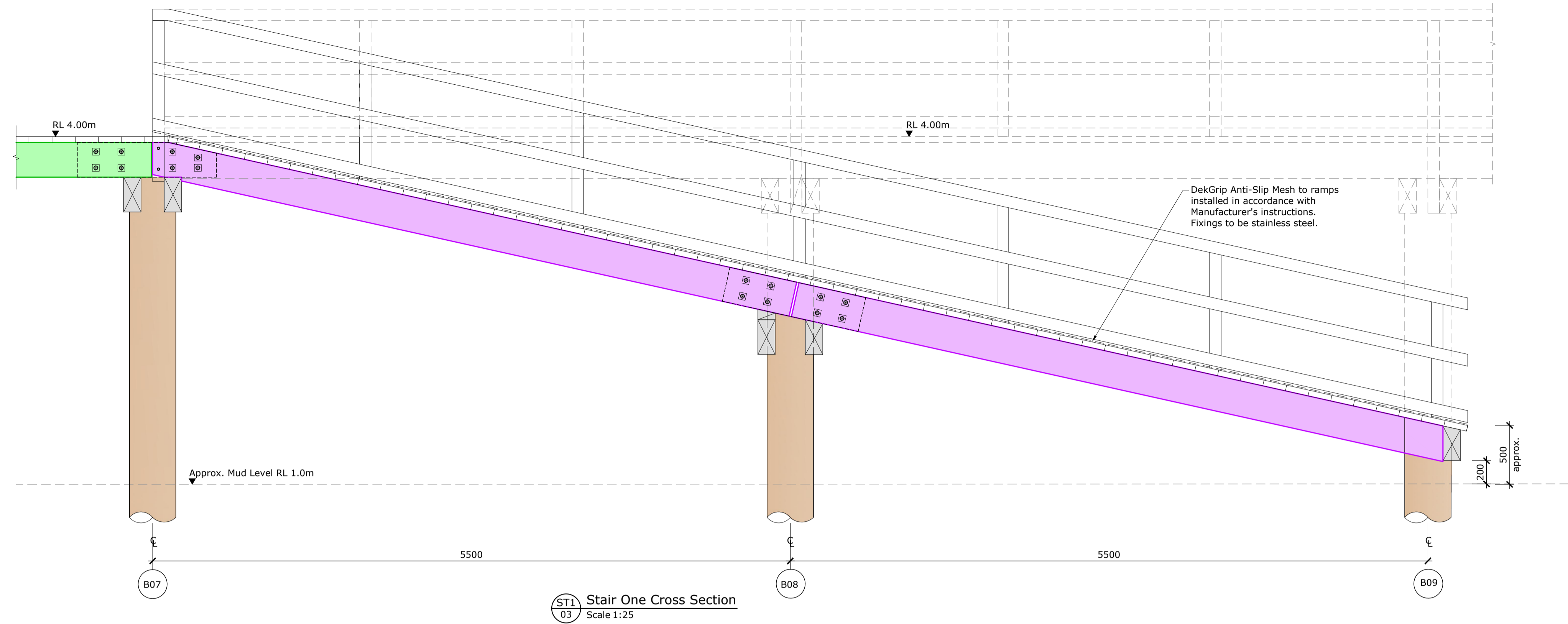
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C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		T. Armstrong	30.01.2020
D	For Tender	BJS	26.07.2021	Calibration:		N. Harwood	31.01.2020
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				R.L. 55.085 (LINZ Dec 2013)			

GOVERNORS BAY JETTY
RESTORATION TRUST

Project Title	Governors Bay Jetty	
Drawing Title	Long Section	
Scales	1:50 [A1]	1:100 [A3]

Project No.	409529	
Set No.	S1	Sht No. 05
Rev.	D	

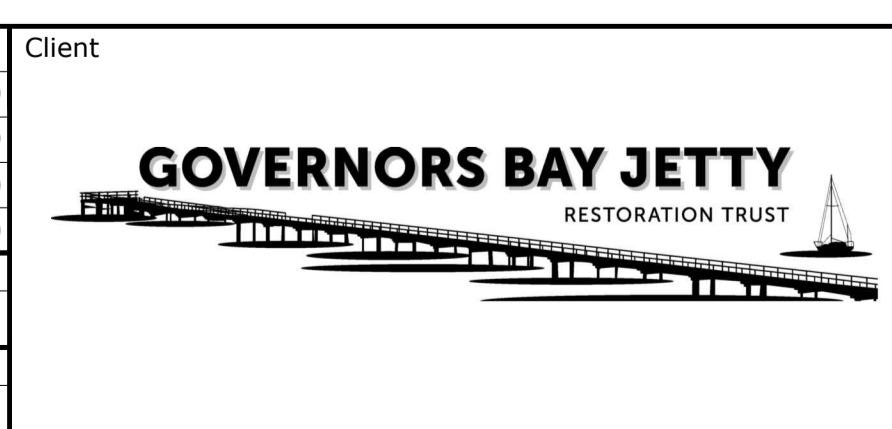




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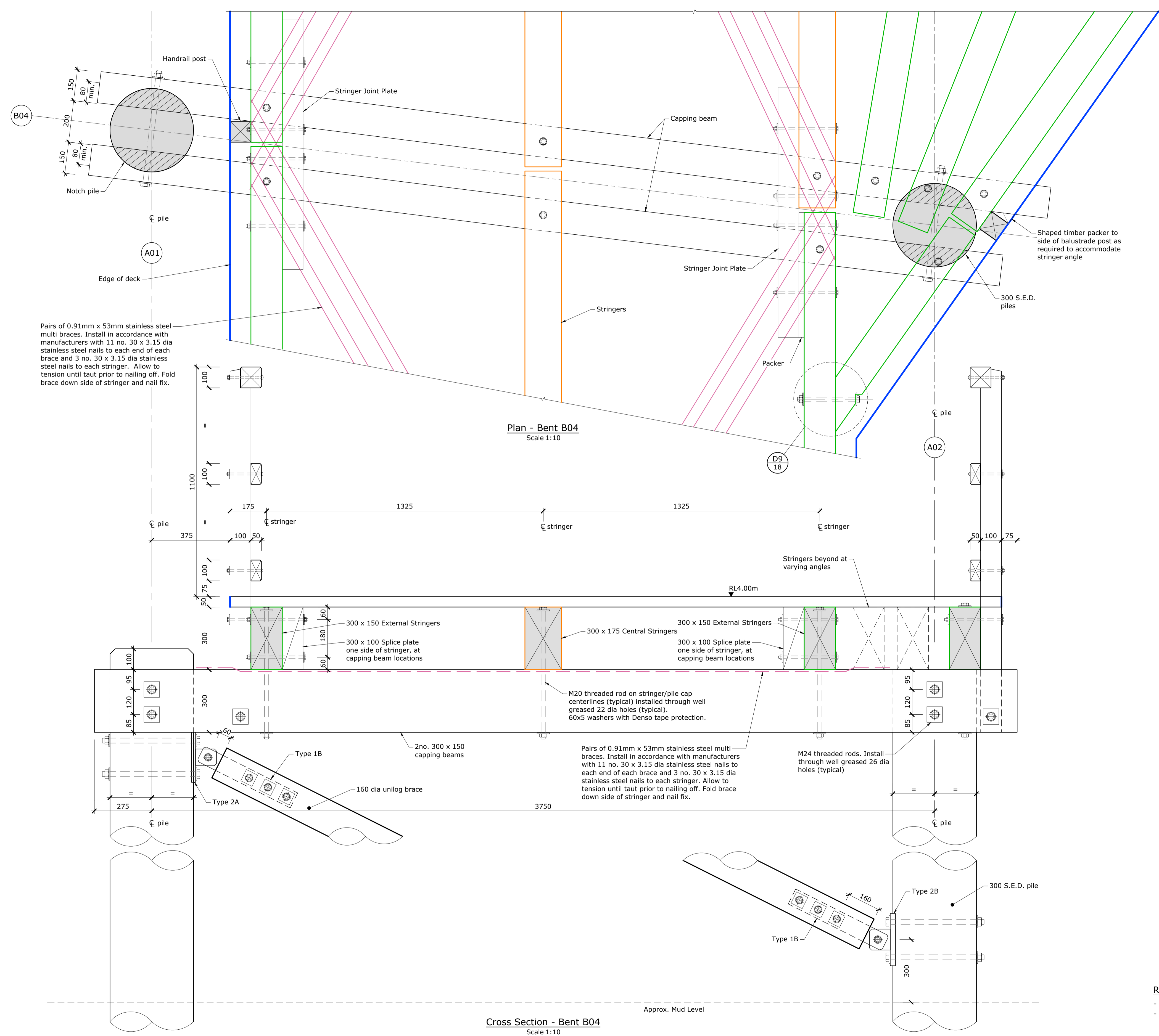
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				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			

Client	Project Title	Project No.
	Governors Bay Jetty	409529
	Ramp Cross Section	Set No. S1 Sht No. 06
	Scales 1:25 [A1] 1:50 [A3]	Rev. D



Client	Project Title	Project No.
	Governors Bay Jetty	409529
	Ramp Cross Section	Set No. S1 Sht No. 06
	Scales 1:25 [A1] 1:50 [A3]	Rev. D





Pairs of 0.91mm x 53mm stainless steel multi braces. Install in accordance with manufacturers with 11 no. 30 x 3.15 dia stainless steel nails to each end of each brace and 3 no. 30 x 3.15 dia stainless steel nails to each stringer. Allow to tension until taut prior to nailing off. Fold brace down side of stringer and nail fix.

M20 threaded rod on stringer/pile cap centerlines (typical) installed through well greased 22 dia holes (typical). 60x5 washers with Denso tape protection.

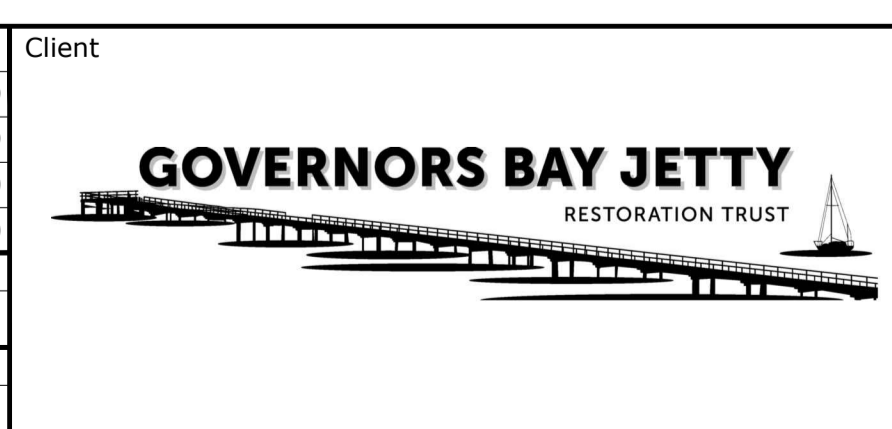
Pairs of 0.91mm x 53mm stainless steel multi braces. Install in accordance with manufacturers with 11 no. 30 x 3.15 dia stainless steel nails to each end of each brace and 3 no. 30 x 3.15 dia stainless steel nails to each stringer. Allow to tension until taut prior to nailing off. Fold brace down side of stringer and nail fix.

M24 threaded rods. Install through well greased 26 dia holes (typical)

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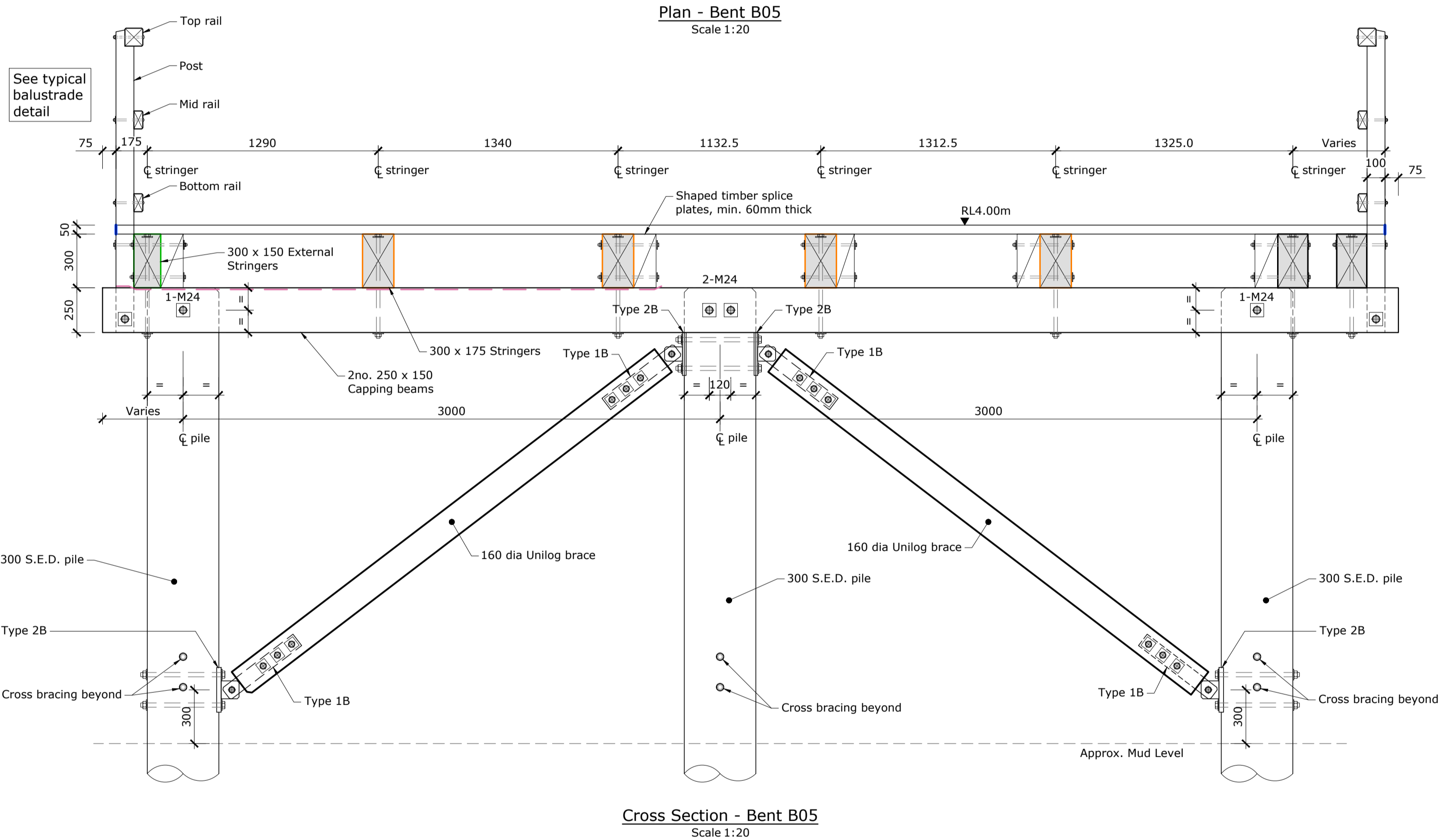
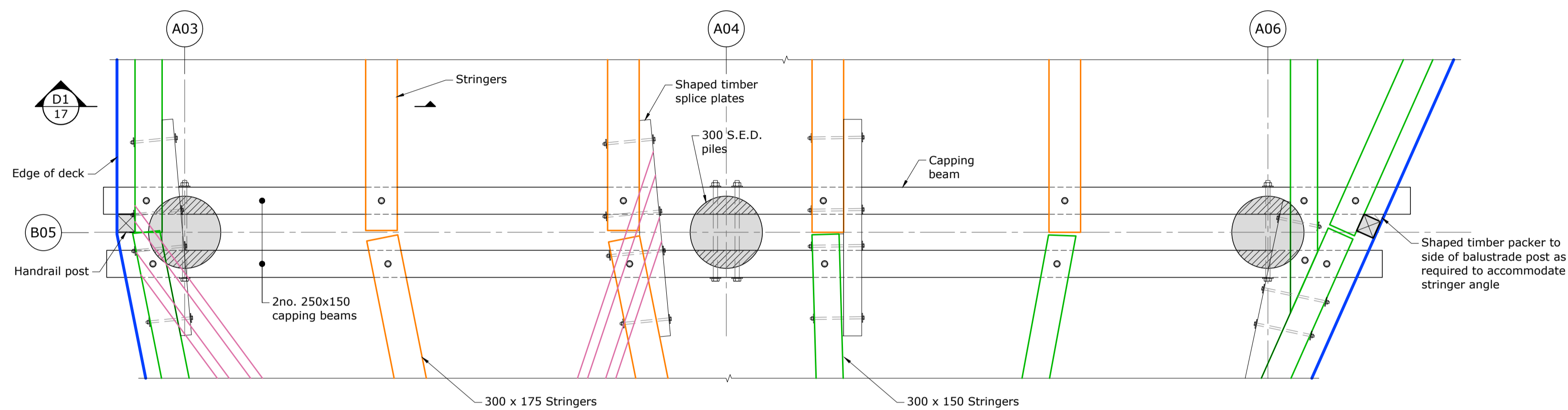
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Drawn B. Stewart	09.12.2019
Dr. Chk T. Armstrong	30.01.2020
Proj. Mgr N. Harwood	31.01.2020
Design Review	
Approved	



Project Title	Governors Bay Jetty	
Drawing Title	Bent B04 Cross Section and Plan Details	
Scales	1:10 [A1]	1:20 [A3]

Project No.	409529	
Set No.	S1	Sht No. 08
Rev.	D	





Reference Drawings:
 - Refer to drawings S1-01 & S1-03 for Bent Locations.
 - Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

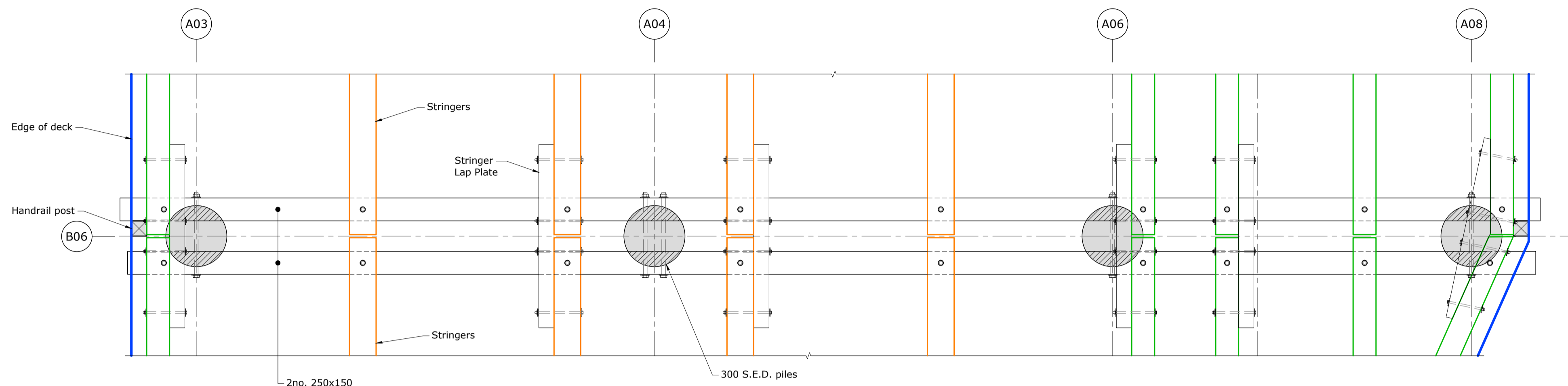
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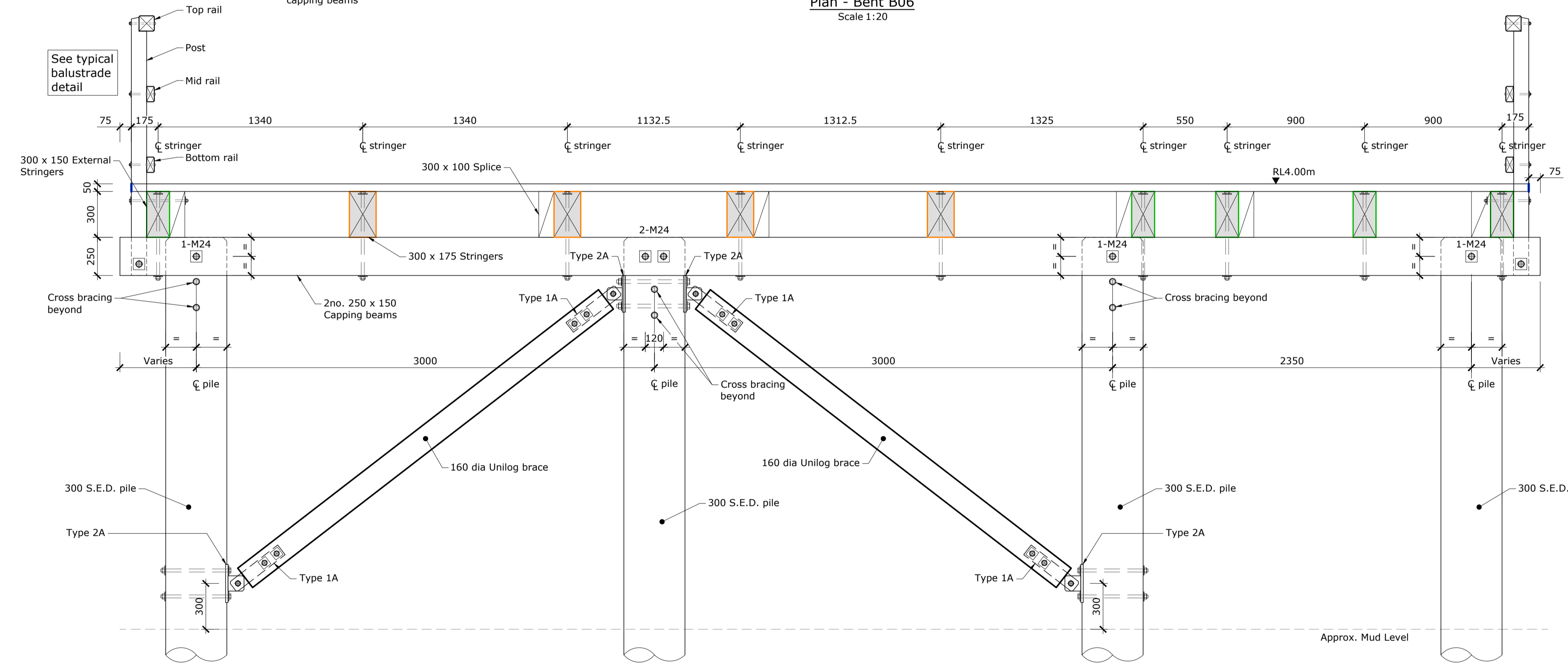
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Project No.	409529	
Drawing Title	Bent B05 Cross Section and Plan Details	
Scales	1:20 [A1]	1:40 [A3]

Set No.	Sht No.
S1	09
Rev.	D





Plan - Bent B06
Scale 1:20



Cross Section - Bent B06
Scale 1:20

Reference Drawings:
- Refer to drawings S1-01 & S1-03 for Bent Locations.
- Refer to drawings S1-16 to S1-18 for Typical Construction Details.

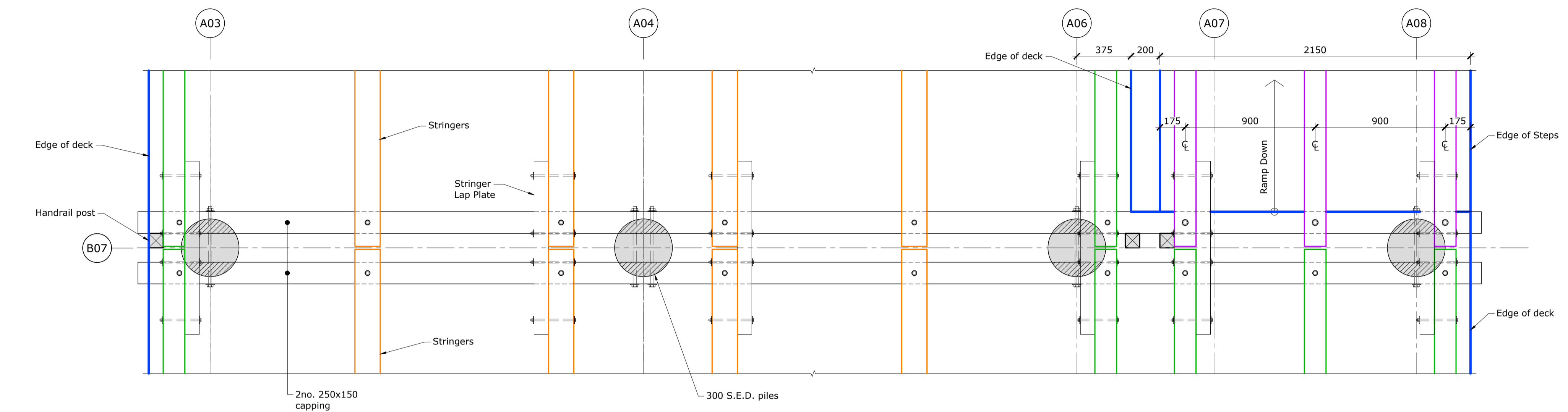
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B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		T. Armstrong	30.01.2020
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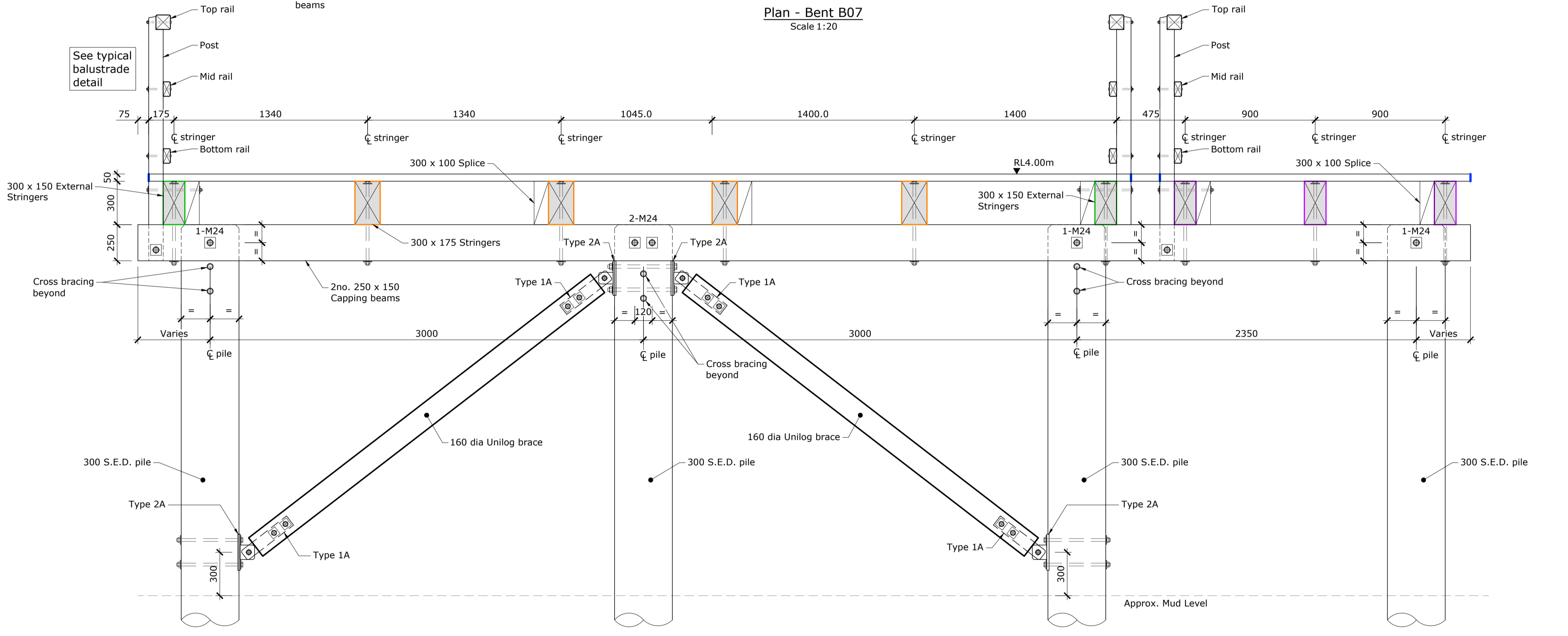


Project Title	Governors Bay Jetty		Project No.	409529	
Drawing Title	Bent B06 Cross Section and Plan Details		Set No.	S1	Sht No.
			Rev.	D	
Scales	1:20 [A1] 1:40 [A3]				





Plan - Bent B07
Scale 1:20

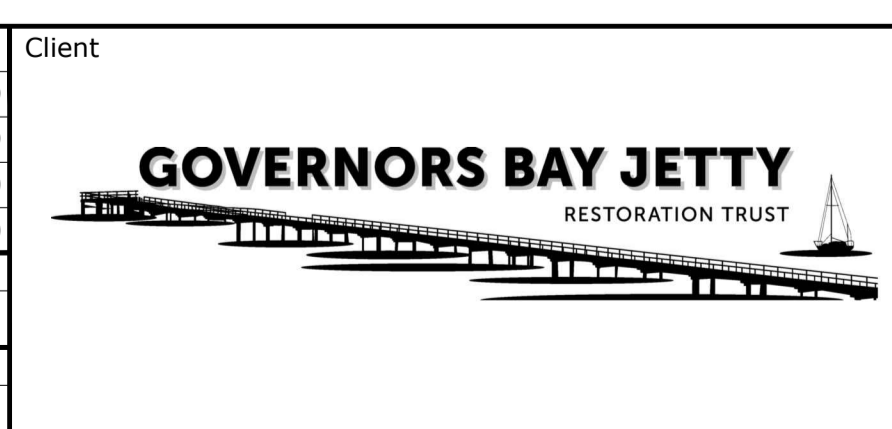


Cross Section - Bent B07
Scale 1:20

Reference Drawings:
 - Refer to drawings S1-01 & S1-03 for Bent Locations.
 - Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

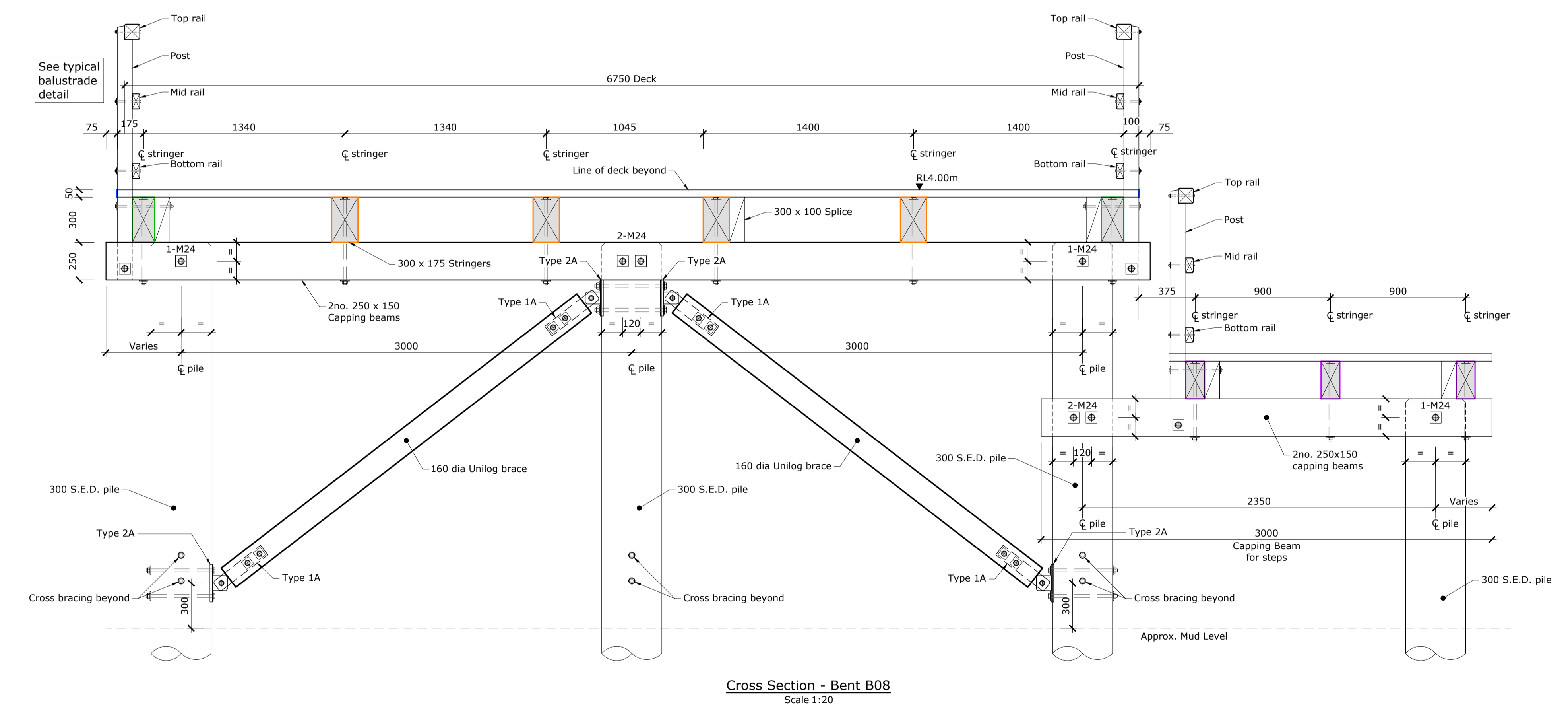
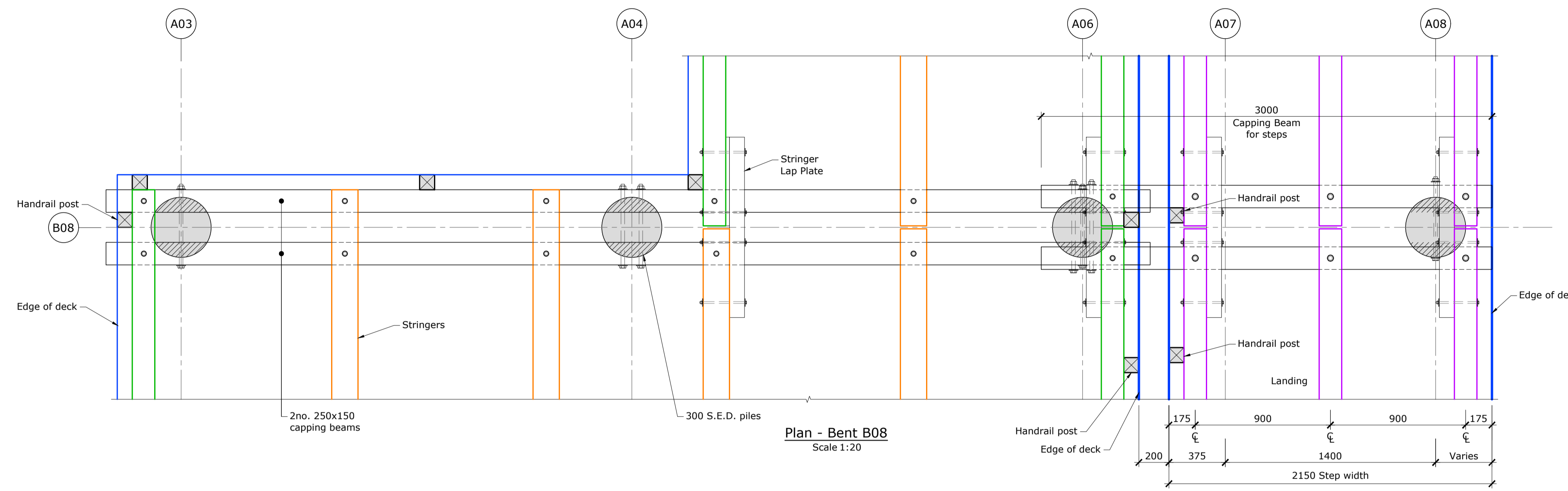
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C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Drg. Chk	T. Armstrong
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr	N. Harwood
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						Approved	



Project Title	Governors Bay Jetty	
Drawing Title	Bent B07 Cross Section and Plan Details	
Scales	1:20 [A1] 1:40 [A3]	

Project No.	409529	
Set No.	S1	Sht No. 11
Rev.	D	





Reference Drawings:
 - Refer to drawings S1-01 & S1-03 for Bent Locations.
 - Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

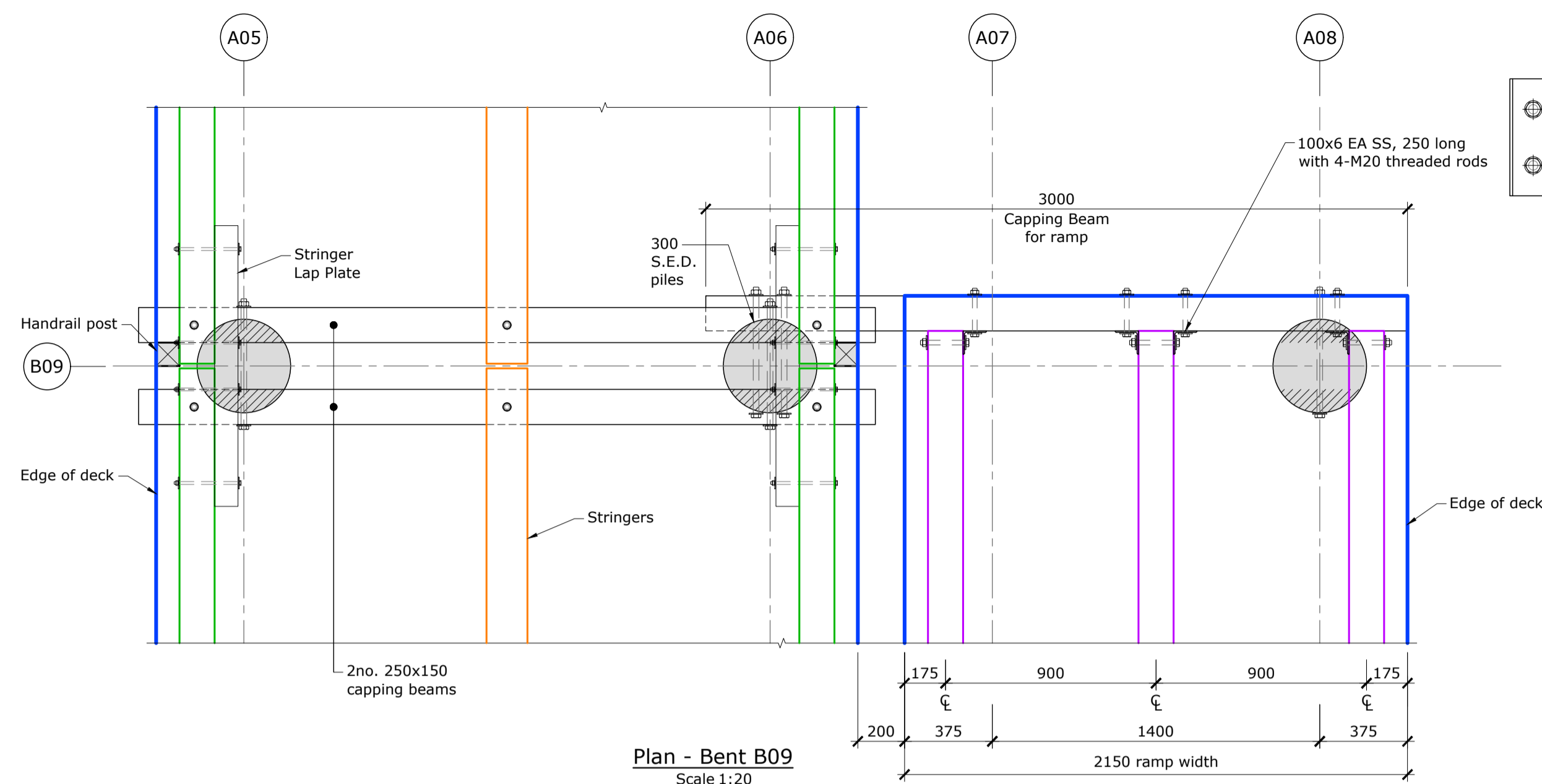
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C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Dr. Chk T. Armstrong	30.01.2020
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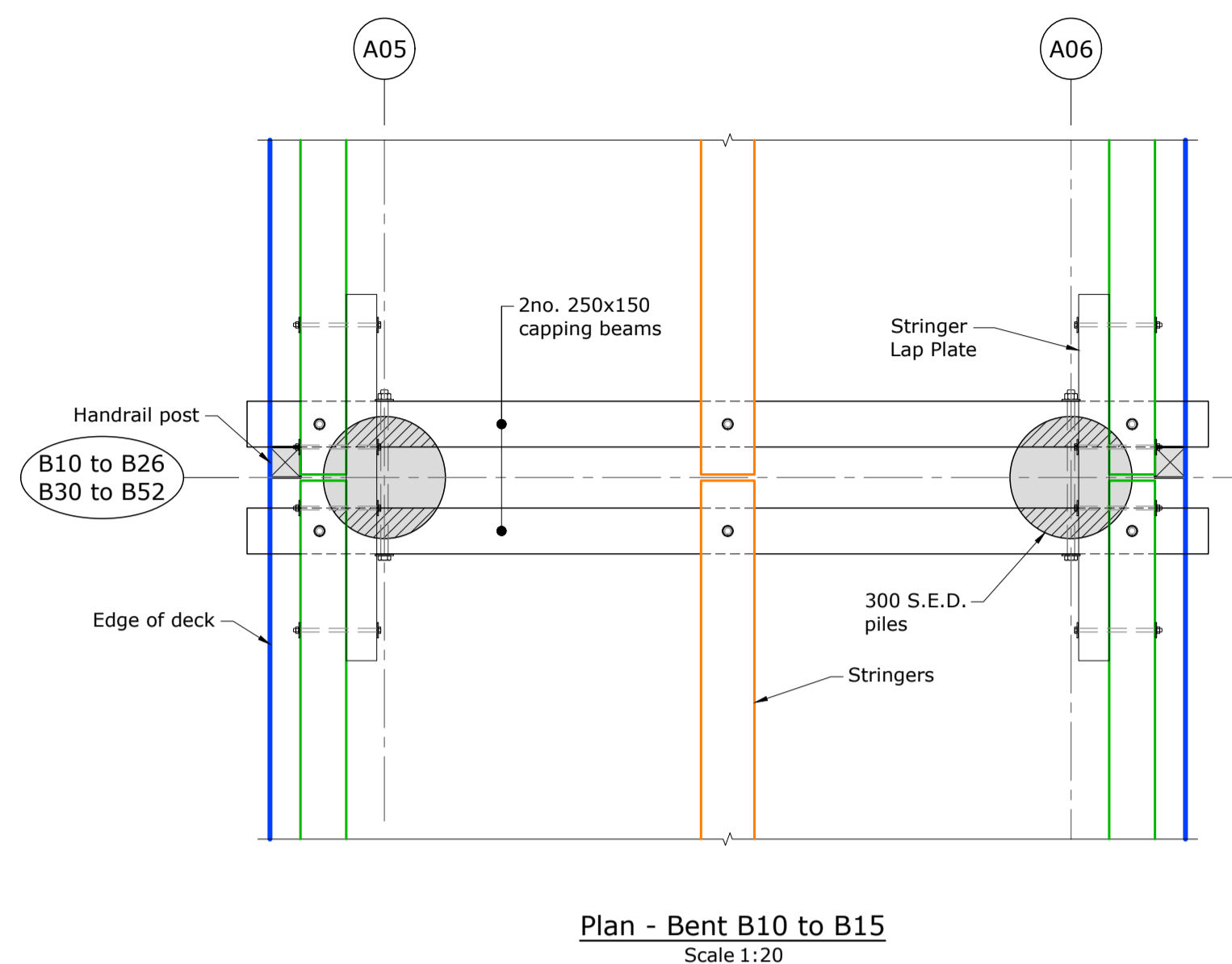
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Project No.	409529	
Set No.	S1	Sht No. 12
Rev.	D	

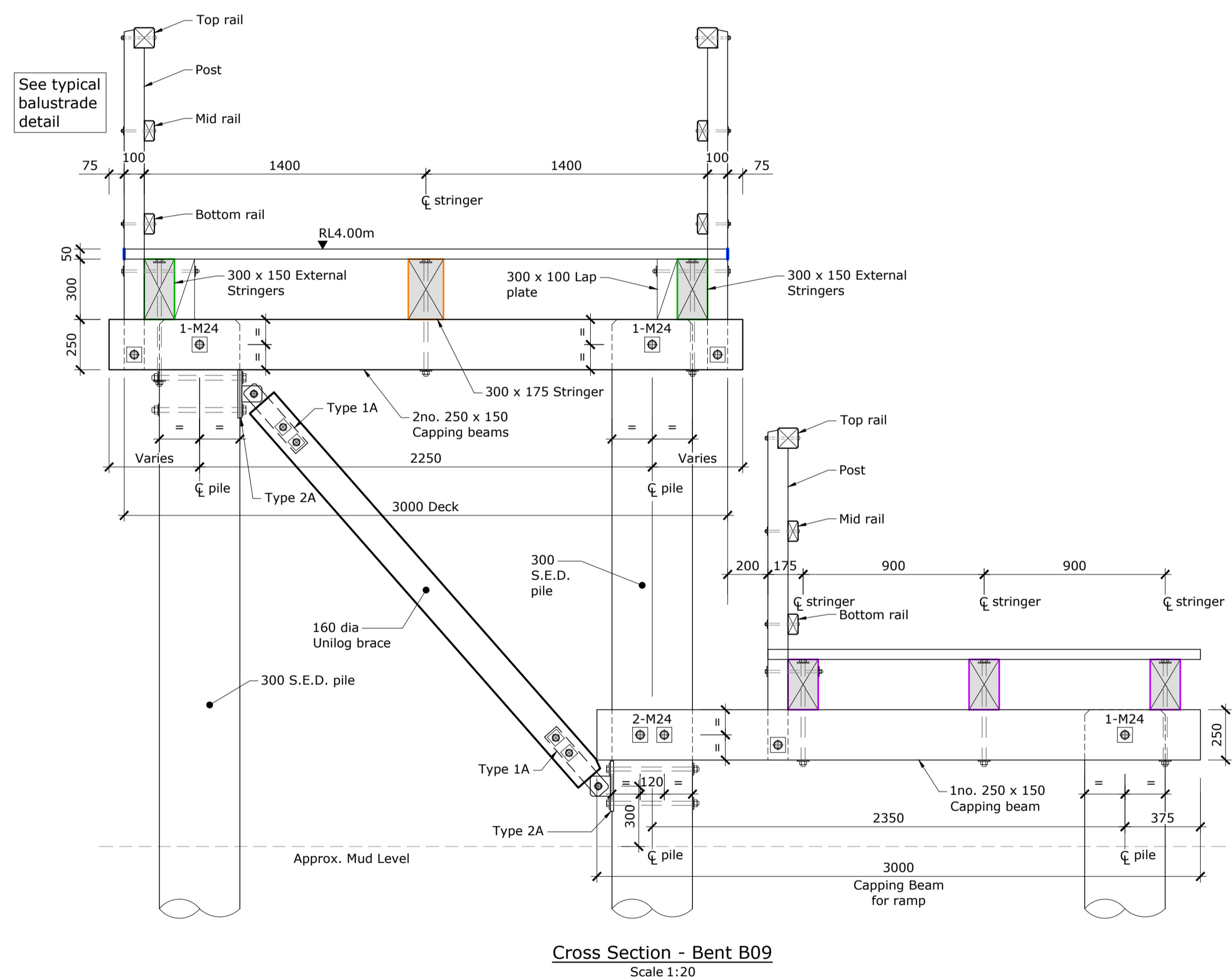




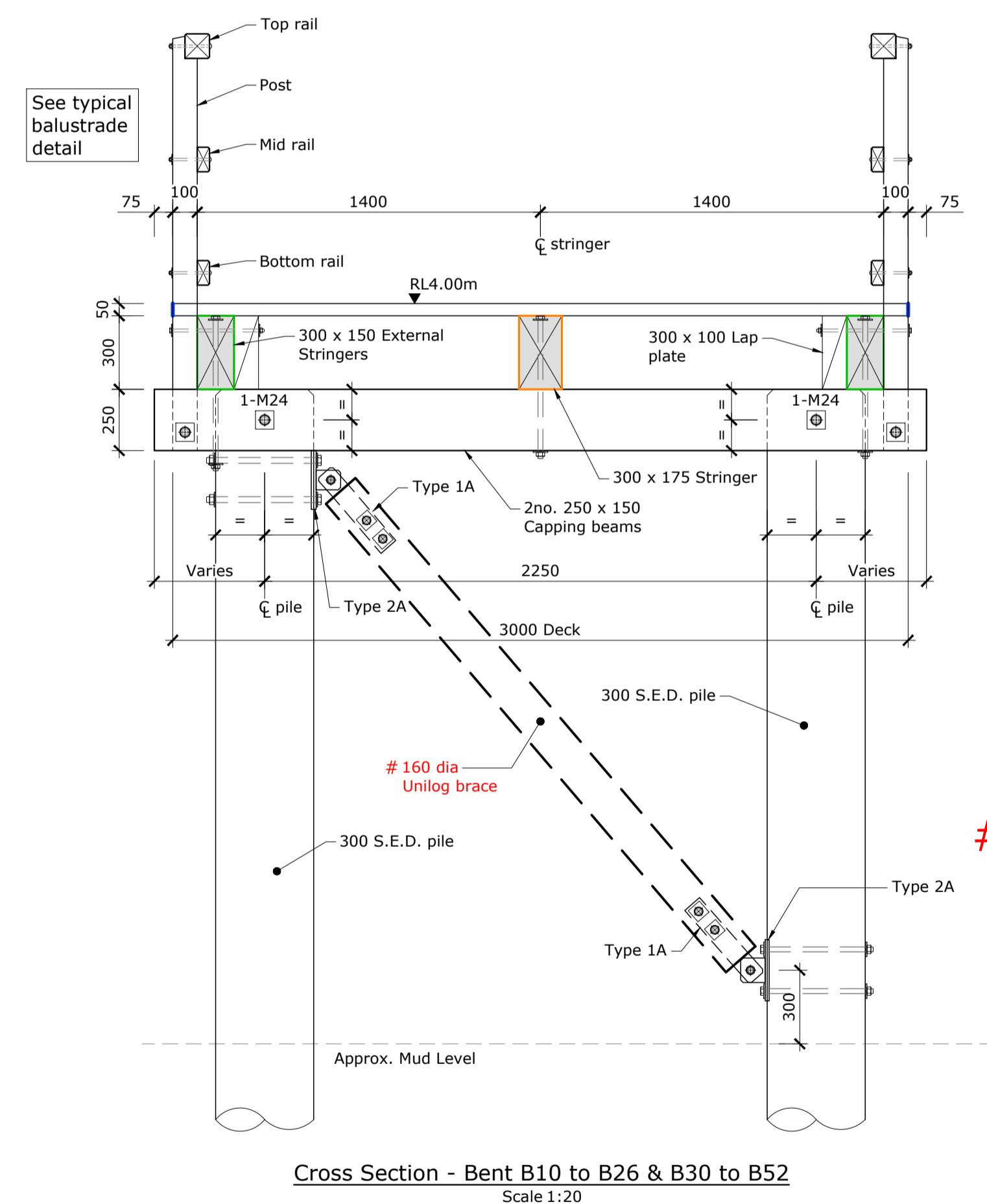
Plan - Bent B09
Scale 1:20



Plan - Bent B10 to B15
Scale 1:20



Cross Section - Bent B09
Scale 1:20



Cross Section - Bent B10 to B26 & B30 to B52
Scale 1:20

Note:
Ø160 Uni-log braces and associated connections are required to be installed on:
- Bents B10 to B15;
- Any other driven pile lengths of bents B16 to B52 where embedment below mud level is less than 6m.

Reference Drawings:
- Refer to drawings S1-01 & S1-03 for Bent Locations.
- Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

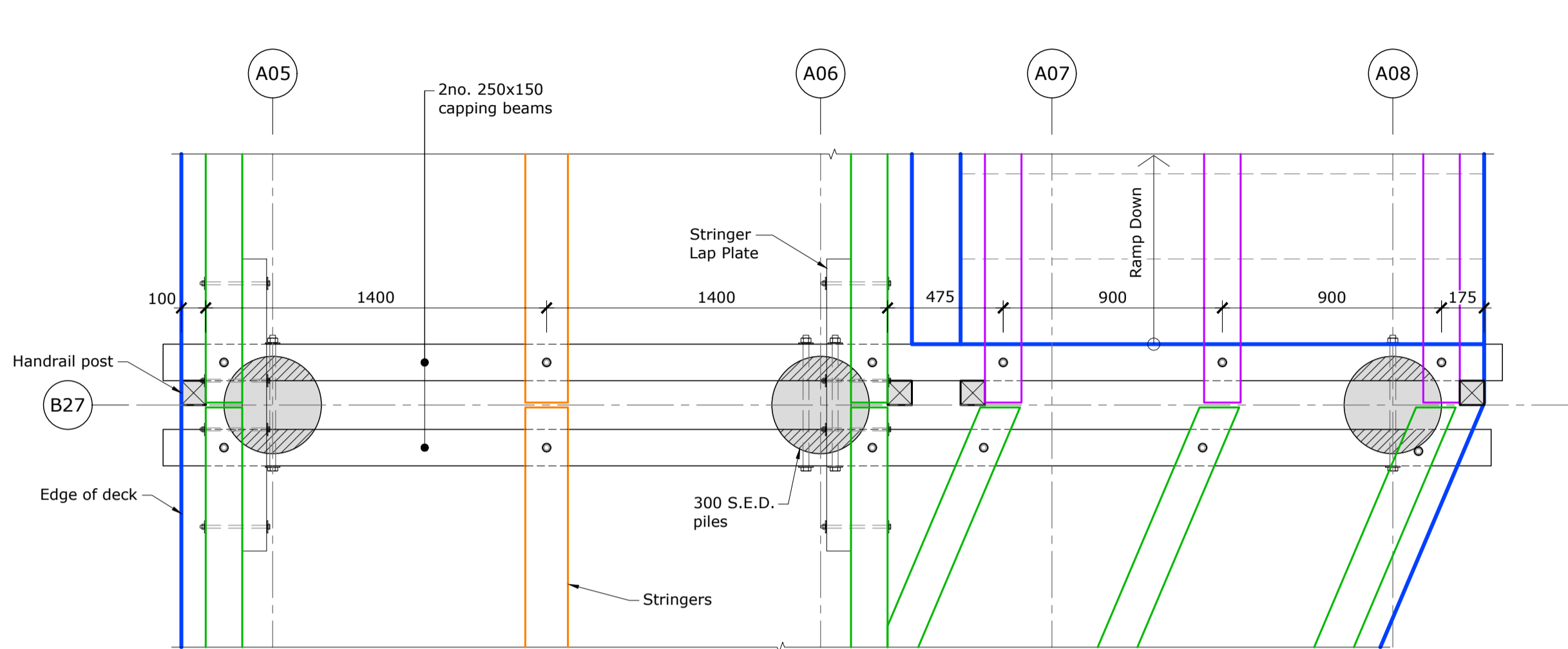
Rev.	Description	Drawn	Date	Surveyed:	Survey Date:	Name	Date
A	Draft for comment	BJS	31.01.2020			Designed	T. Armstrong
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		Drawn	B. Stewart
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Drng. Chk	T. Armstrong
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr	N. Harwood
				Origin of Levels:	Datum:	Design Review	
				AF0Q		Approved	
				SS Pin, Capped			
				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			



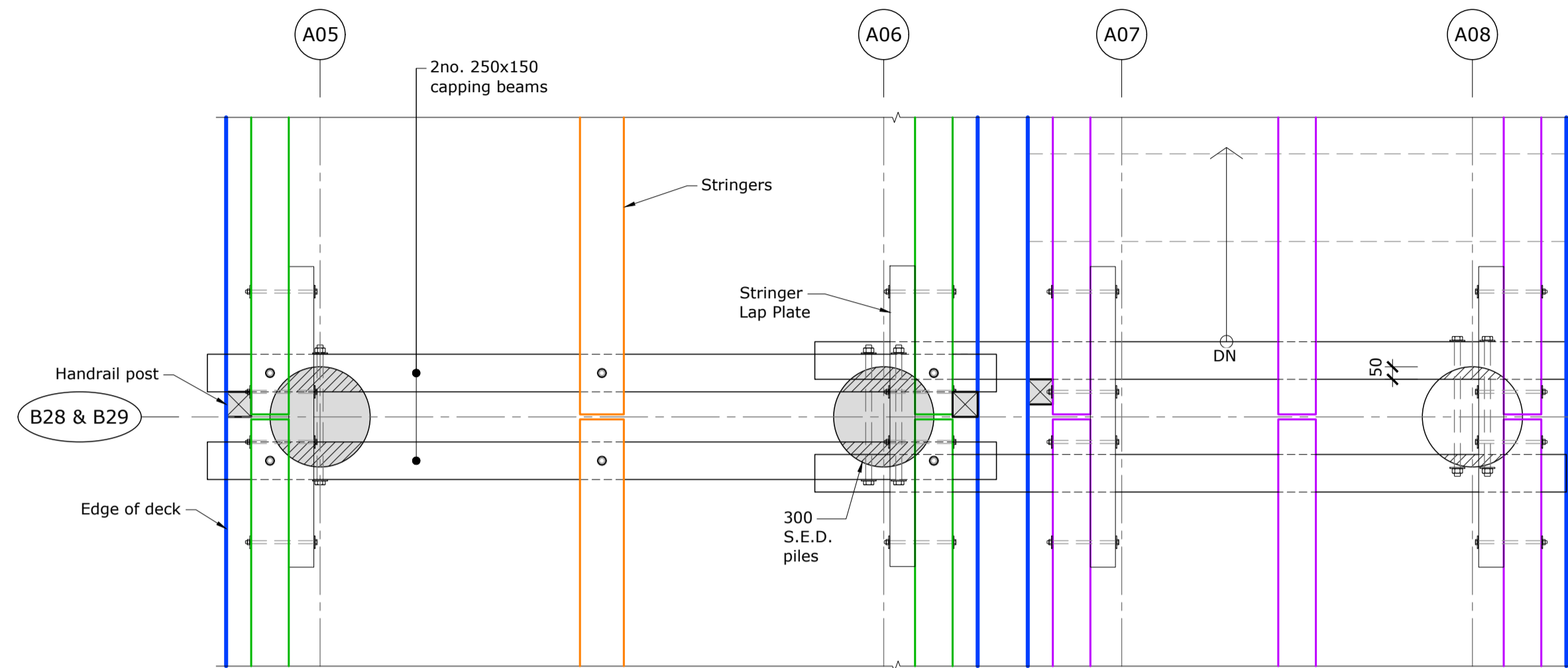
Project Title	Governors Bay Jetty	
Drawing Title	Bent B09, B10 to B26 & B30 to B52 Cross Sections and Plan Details	
Scales	1:20 [A1]	1:40 [A3]

Project No.	409529	
Set No.	S1	Sht No. 13
Rev.	D	

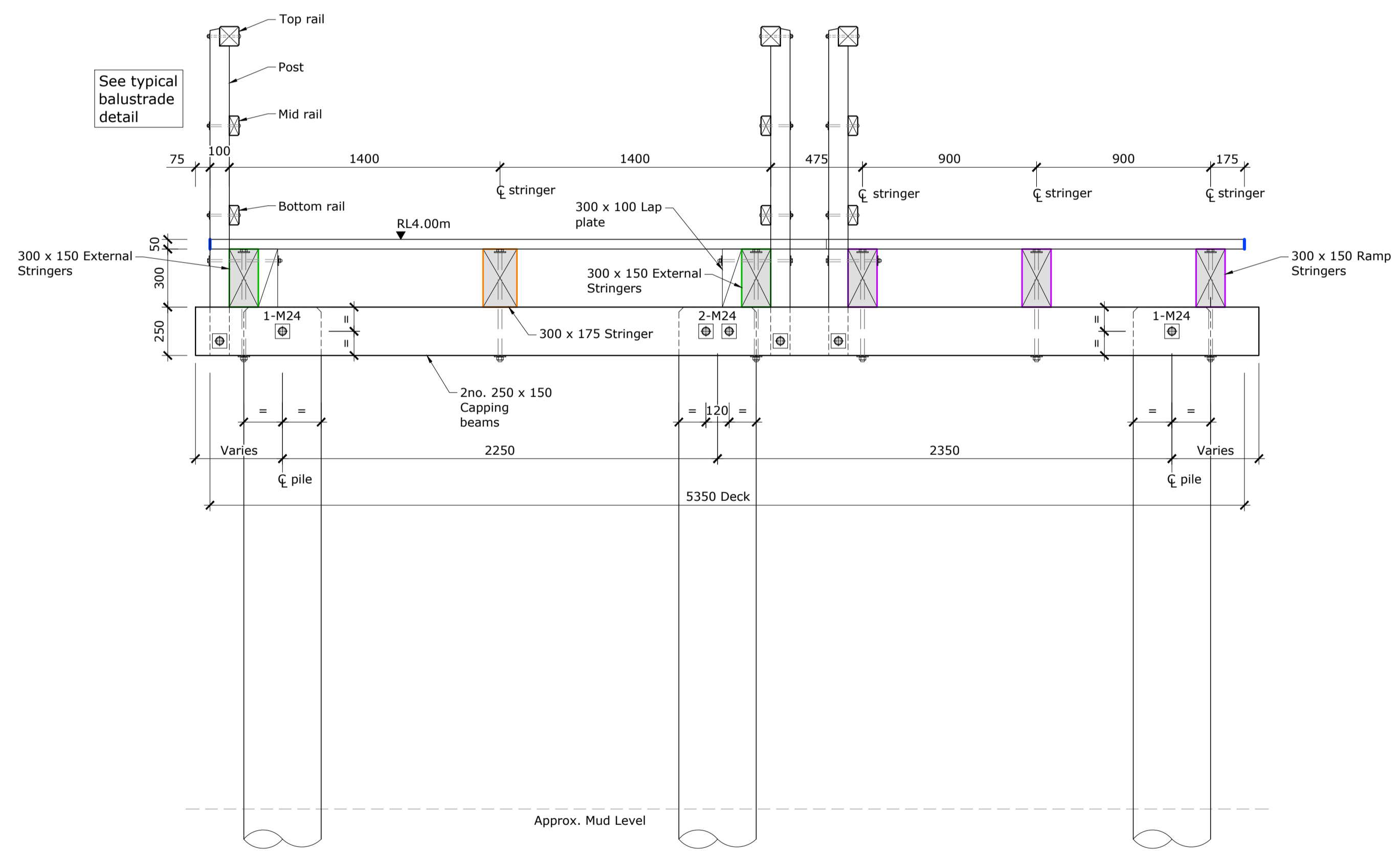




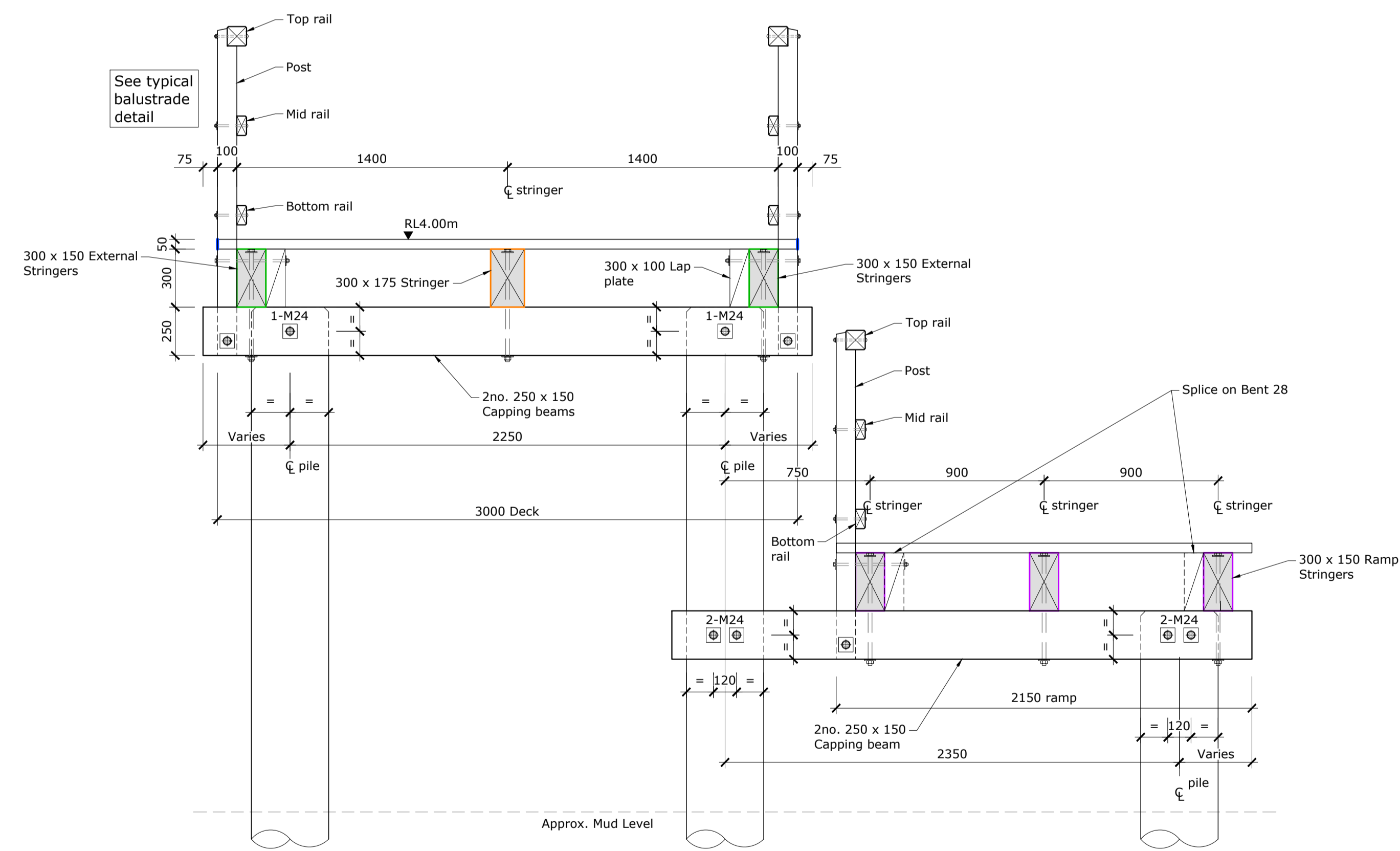
Plan - Bent B27
Scale 1:20



Plan - Bent B28, B29 (Similar with No Handrail on lower landing)
Scale 1:20



Cross Section - Bent B27
Scale 1:20

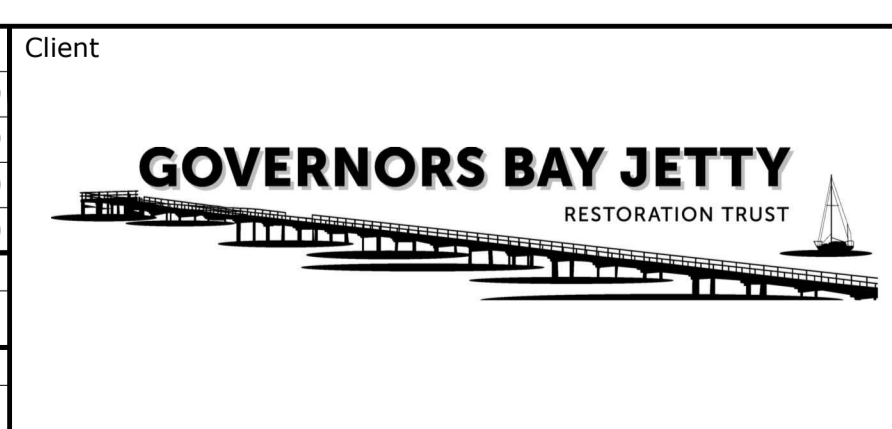


Cross Section - Bent B28, B29 (Similar with No Handrail on lower landing))
Scale 1:20

Reference Drawings:
- Refer to drawings S1-01 & S1-03 for Bent Locations.
- Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

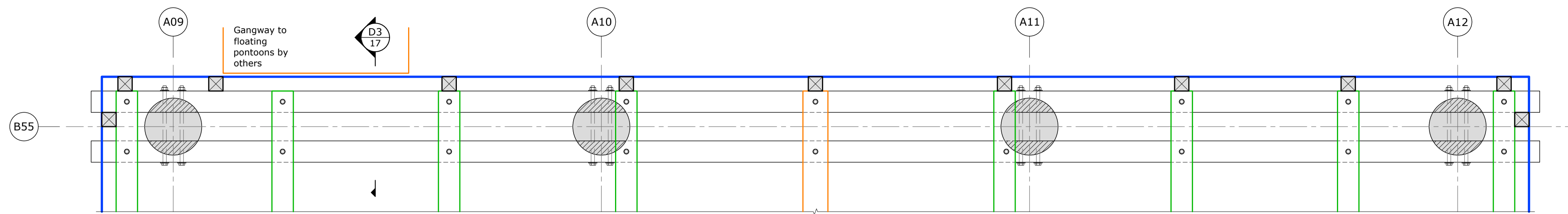
Rev.	Description	Drawn	Date	Surveyed:	Survey Date:	Name	Date
A	Draft for comment	BJS	31.01.2020			Designed	T. Armstrong
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		Drawn	B. Stewart
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Dr. Chk	T. Armstrong
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr	N. Harwood
				Origin of Levels:	Datum:	Design Review	
				AF0Q		Approved	
				SS Pin, Capped			
				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			



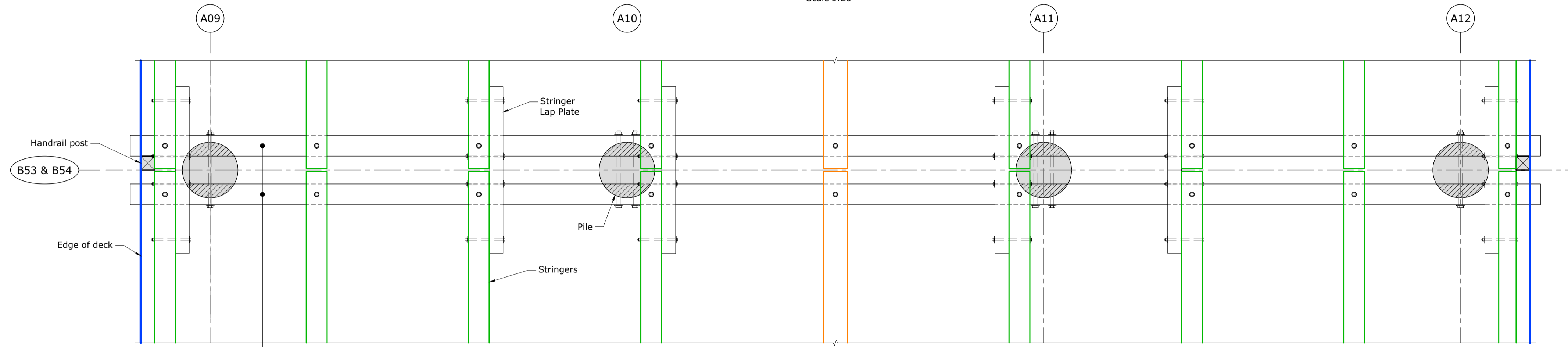
Project Title	Governors Bay Jetty	
Drawing Title	Bent B27, B28 & B29 Cross Sections and Plan Details	
Scales	1:20 [A1]	1:40 [A3]

Project No.	409529	
Set No.	S1	Sht No. 14
Rev.	D	

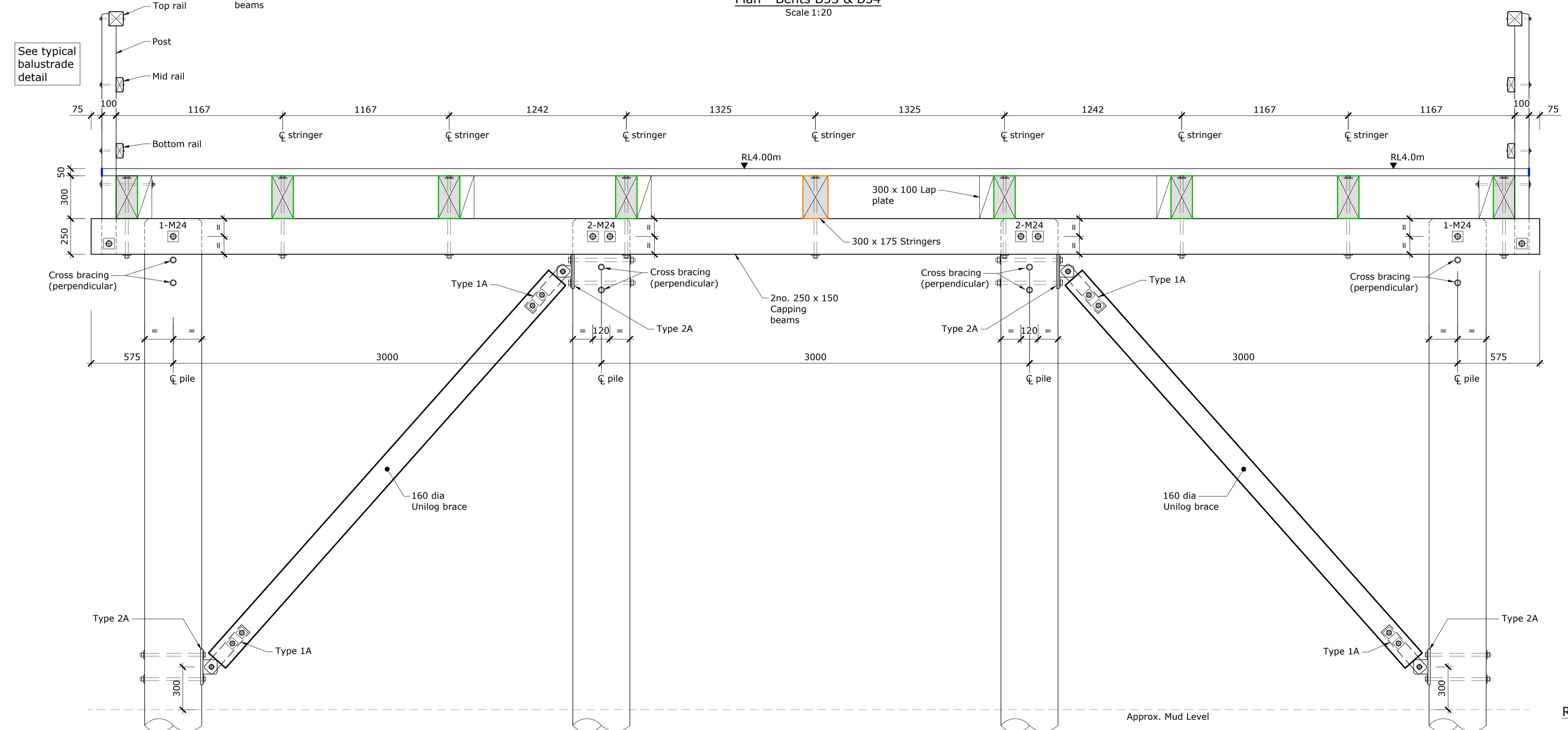




Plan - Bent B55
Scale 1:20



Plan - Bents B53 & B54
Scale 1:20



Cross Section - Bent B53, B54 & (B55 Similar)
Scale 1:20

Reference Drawings:
- Refer to drawings S1-01 & S1-03 for Bent Locations.
- Refer to drawings S1-16 to S1-18 for Typical Construction Details.

For Tender

Rev.	Description	Drawn	Date	Surveyed:	Survey Date:
A	Draft for comment	BJS	31.01.2020		
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000	
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000	
D	For Tender	BJS	26.07.2021	Calibration:	

Name	Date
Designed	T. Armstrong 21.11.2019
Drawn	B. Stewart 09.12.2019
Dr. Chk	T. Armstrong 30.01.2020
Proj. Mgr	N. Harwood 31.01.2020
Design Review	
Approved	

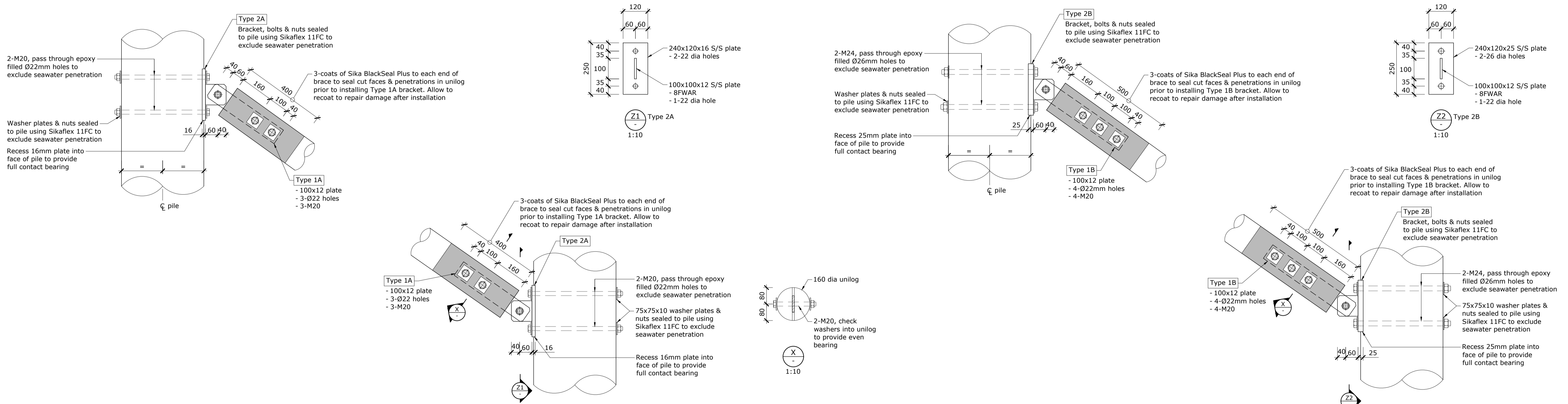
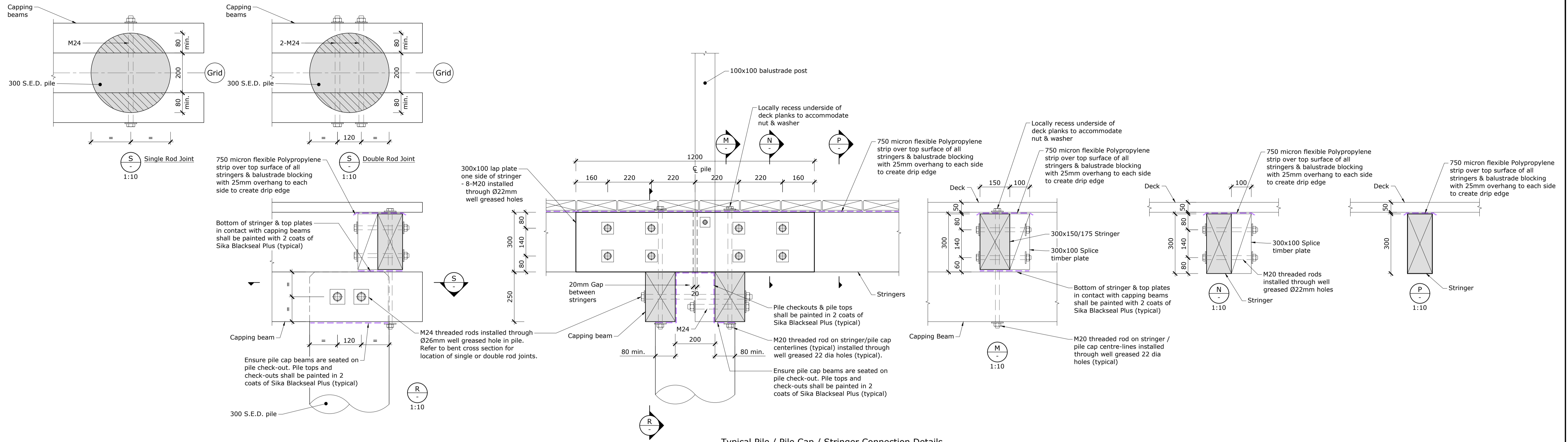
Origin of Levels:	Datum:
AF0Q	
SS Pin, Capped	
Main Road	
R.L. 55.085 (LINZ Dec 2013)	

Client

Project Title	Governors Bay Jetty
Drawing Title	Bent B53, B54 & B55 Cross Sections and Plan Details
Scales	1:20 [A1] 1:40 [A3]

Project No.	409529
Set No.	S1
Sht No.	15
Rev.	D





For Tender

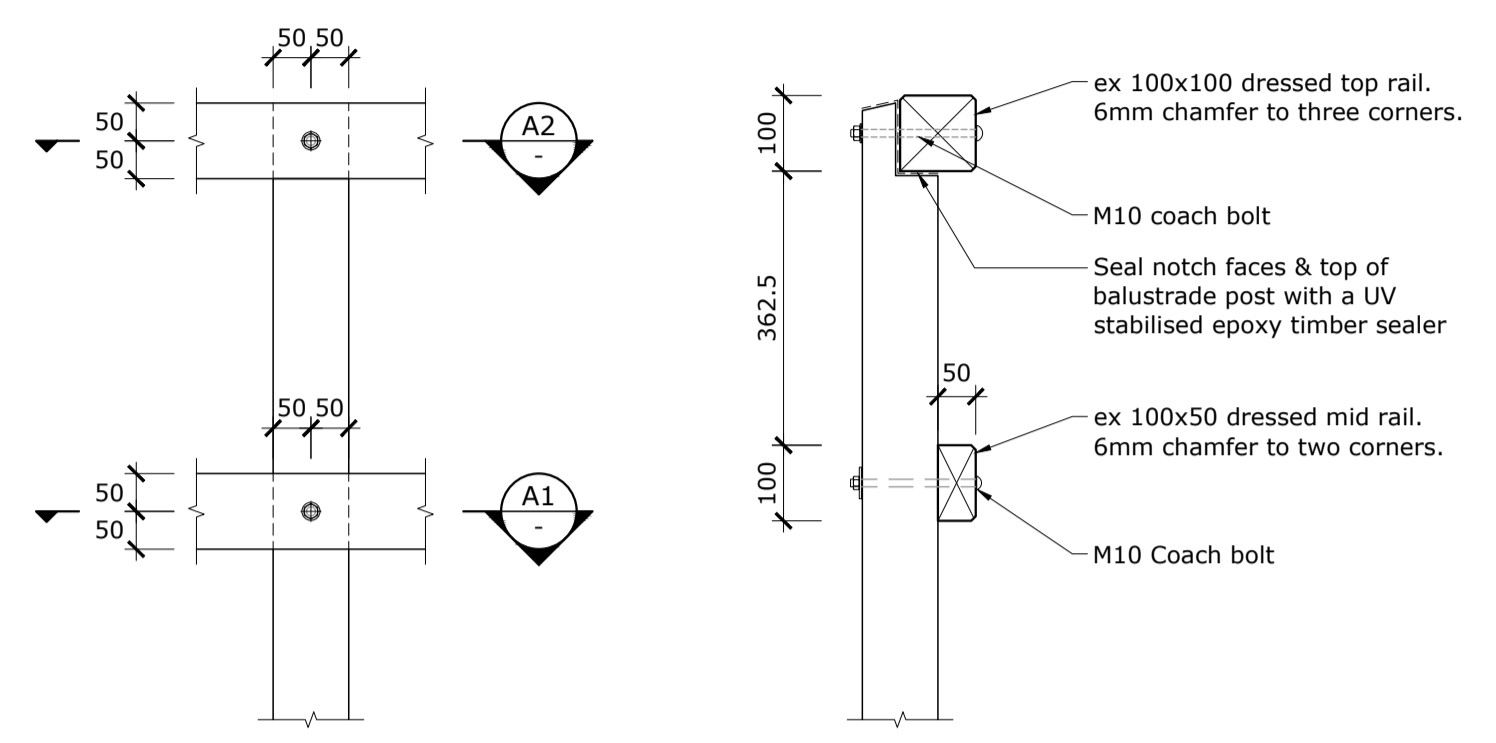
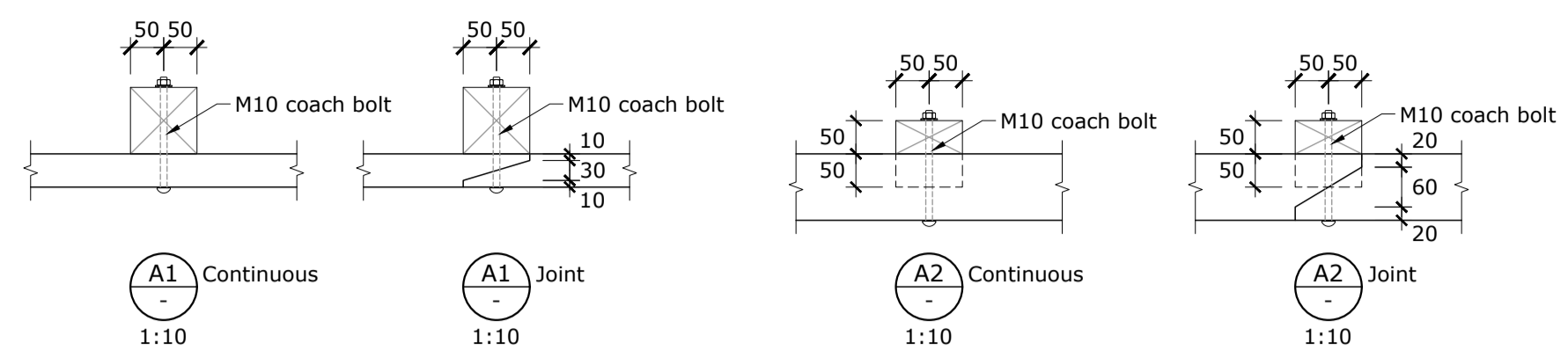
Rev.	Description	Drawn	Date	Surveyed:	Survey Date:	Name	Date
A	Draft for comment	BJS	31.01.2020			T. Armstrong	21.11.2019
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Dr. Chk T. Armstrong	30.01.2020
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr N. Harwood	31.01.2020
				Origin of Levels:	Datum:	Design Review	Date
				AF0Q			
				SS Pin, Capped		Approved	Date
				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			



Project Title	Governors Bay Jetty	
Drawing Title	Typical Pile and Bracing Connection Details	
Scales	1:10 [A1]	1:20 [A3]

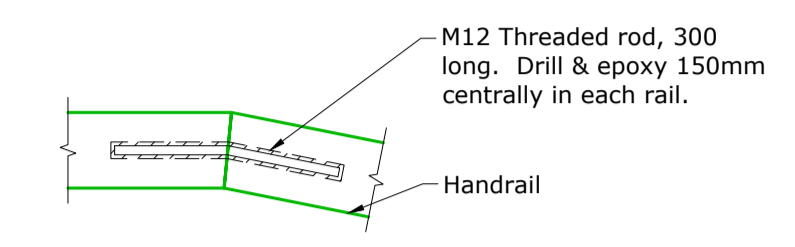
Project No.	409529	
Set No.	S1	Sht No. 16
Rev.	D	



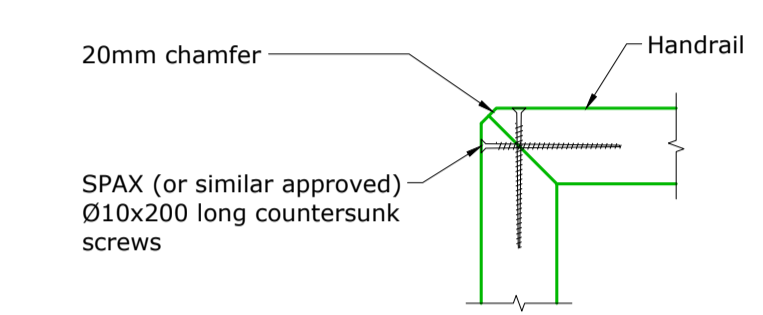


D4 Typical Rail to Balustrade Post Connections
Scale 1:10

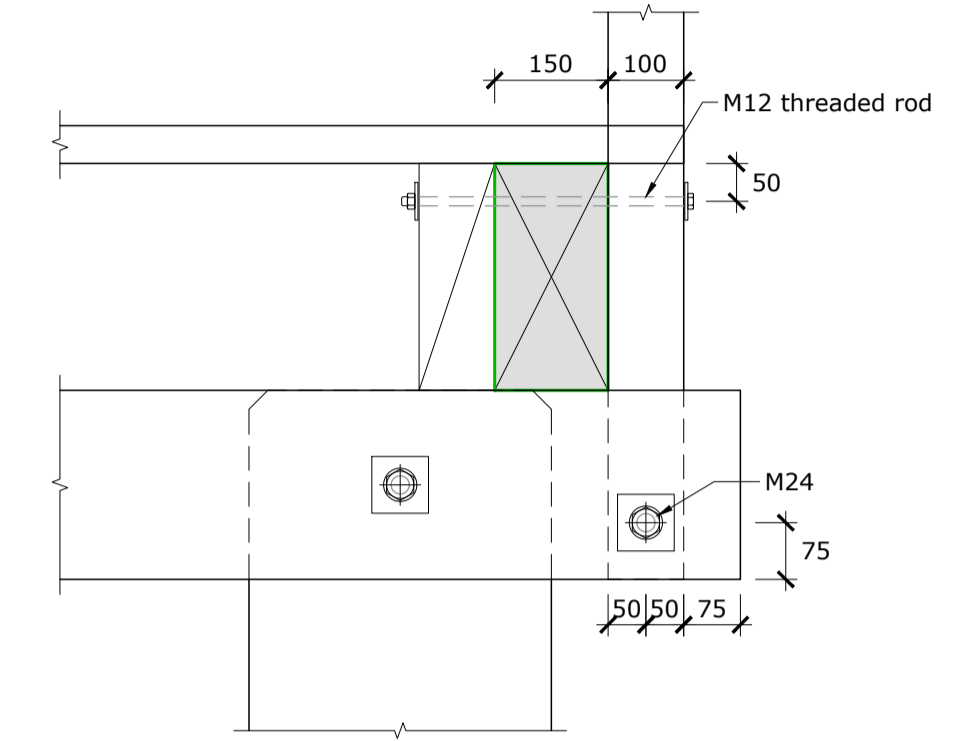
Note:
Rails to be continuous over 2 spans minimum



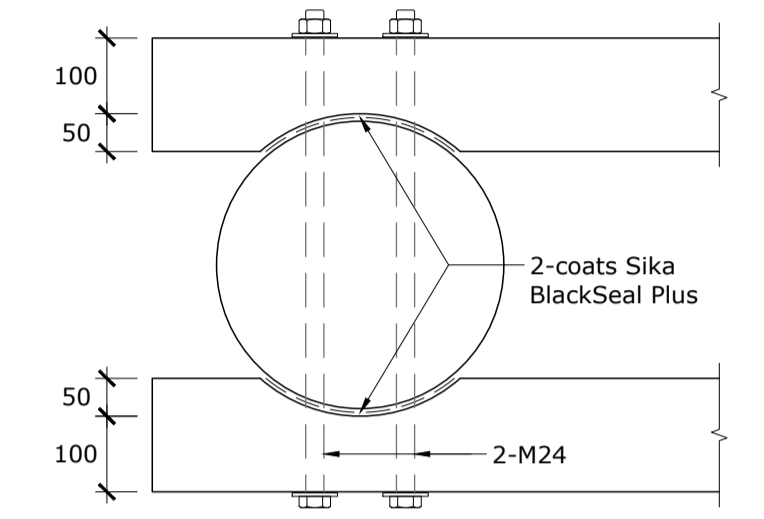
Rail Splice Joint At Ramp Flight Transitions
Scale 1:10



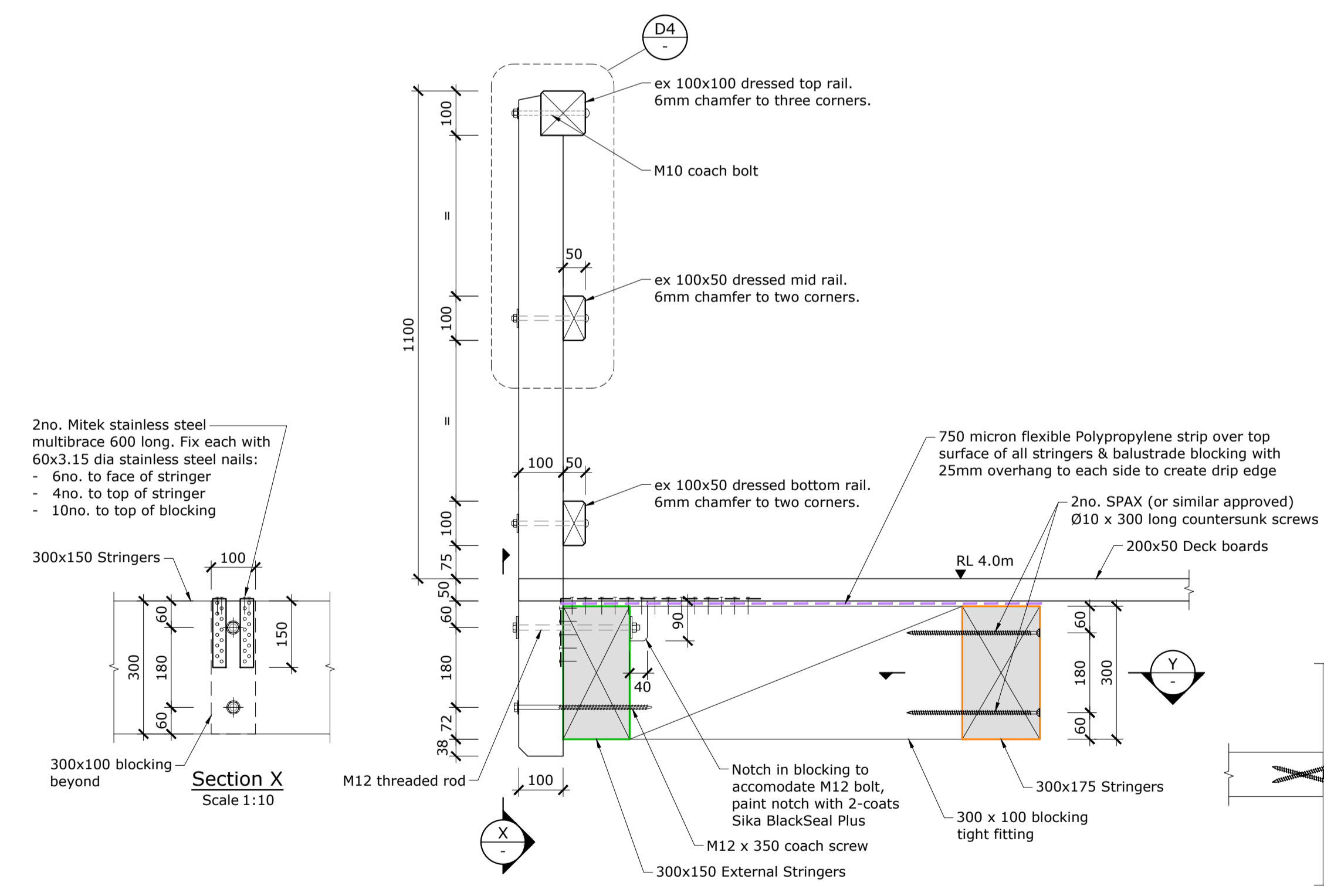
Rail Splice Joint At Corner Junctions
Scale 1:10



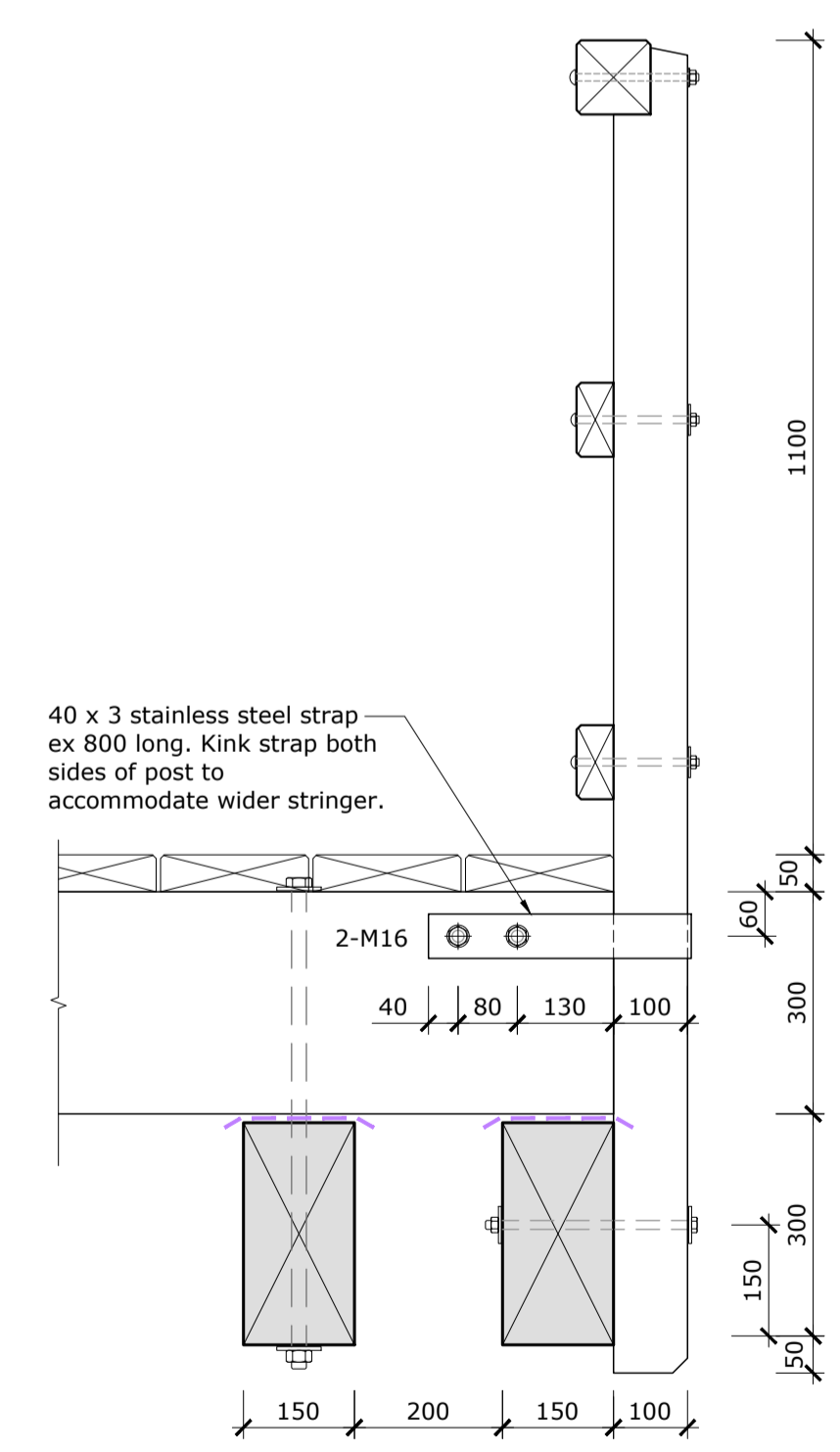
Typical Stringer/Capping Beam to Balustrade Post Connection
Scale 1:10



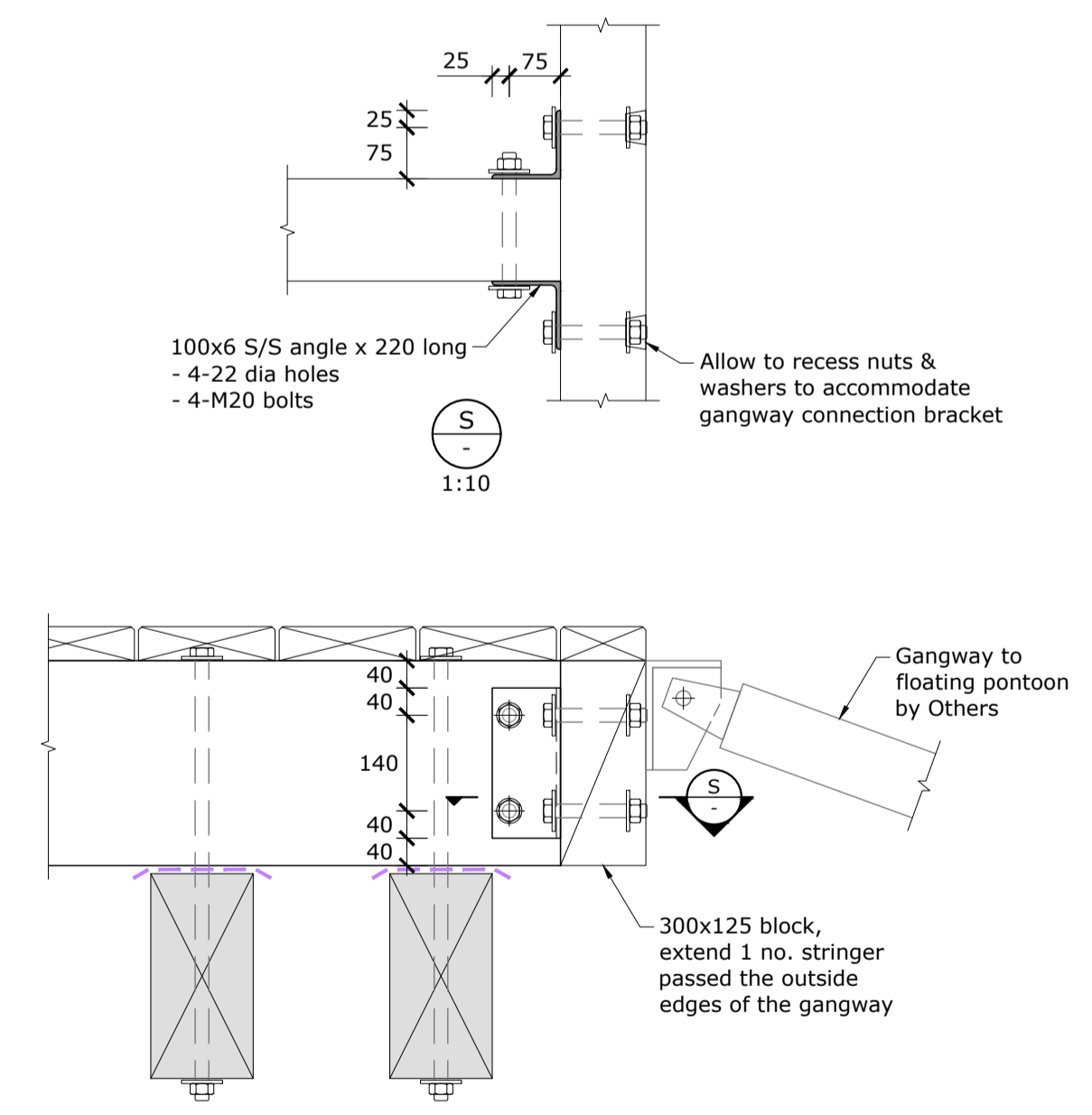
Typical Ramp Capping Beam to Main Bent Pile Connection Detail
Scale 1:10



D1 Typical Stringer, Balustrade and Edge Barrier - Bent B01 - B55
Scale 1:10



D2 Typical Handrail @ End Platform Seaward Edge
Scale 1:10



D3 Seaward End Pontoon Connection Detail
Scale 1:10

Rev.	Description	Drawn	Date	Surveyed:	Survey Date:	Name	Date
A	Draft for comment	BJS	31.01.2020			T. Armstrong	21.11.2019
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		Dr. Chk T. Armstrong	30.01.2020
D	For Tender	BJS	26.07.2021	Calibration:		Proj. Mgr N. Harwood	31.01.2020

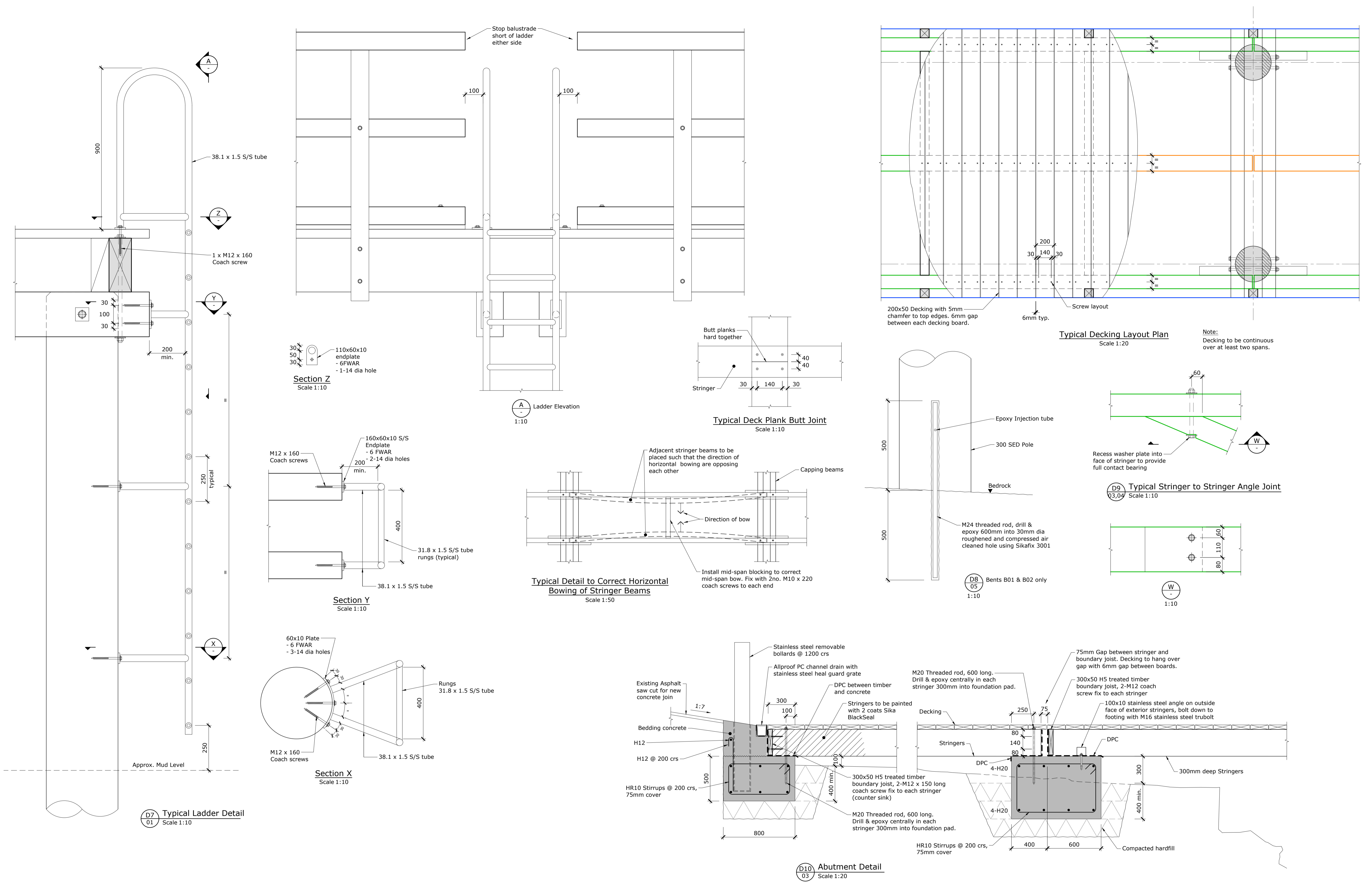
Origin of Levels:	Datum:	Design Review	Date
AF0Q			
SS Pin, Capped			
Main Road			
R.L. 55.085 (LINZ Dec 2013)			

Client: **GOVERNORS BAY JETTY RESTORATION TRUST**

Project Title	Governors Bay Jetty
Drawing Title	Typical Handrail and Pontoon Connection Details
Scales	1:10 [A1] 1:20 [A3]

Project No.	409529
Set No.	S1
Sht No.	17
Rev.	D

For Tender



For Tender

Rev.	Description	Drawn	Date	Surveyed:	Survey Date:	Name	Date
A	Draft for comment	BJS	31.01.2020			T. Armstrong	21.11.2019
B	For Building Consent	VM	20.04.2020	Coord System: NZGD2000		B. Stewart	09.12.2019
C	For ESP Internal Review	BJS	03.06.2021	Mt Pleasant 2000		T. Armstrong	30.01.2020
D	For Tender	BJS	26.07.2021	Calibration:		N. Harwood	31.01.2020
				Origin of Levels:	Datum:	Design Review	Date
				AF0Q			
				SS Pin, Capped		Approved	Date
				Main Road			
				R.L. 55.085 (LINZ Dec 2013)			



Project Title	Governors Bay Jetty		Project No.	409529	
Drawing Title	Typical Ladder, Decking, Abutment and Details		Set No.	S1	
			Sht No.	18	
Rev.			D		
Scales	1:10; 1:20 & 1:50 [A1] 1:20; 1:40 & 1:100 [A3]				

**eliot
sinclair**