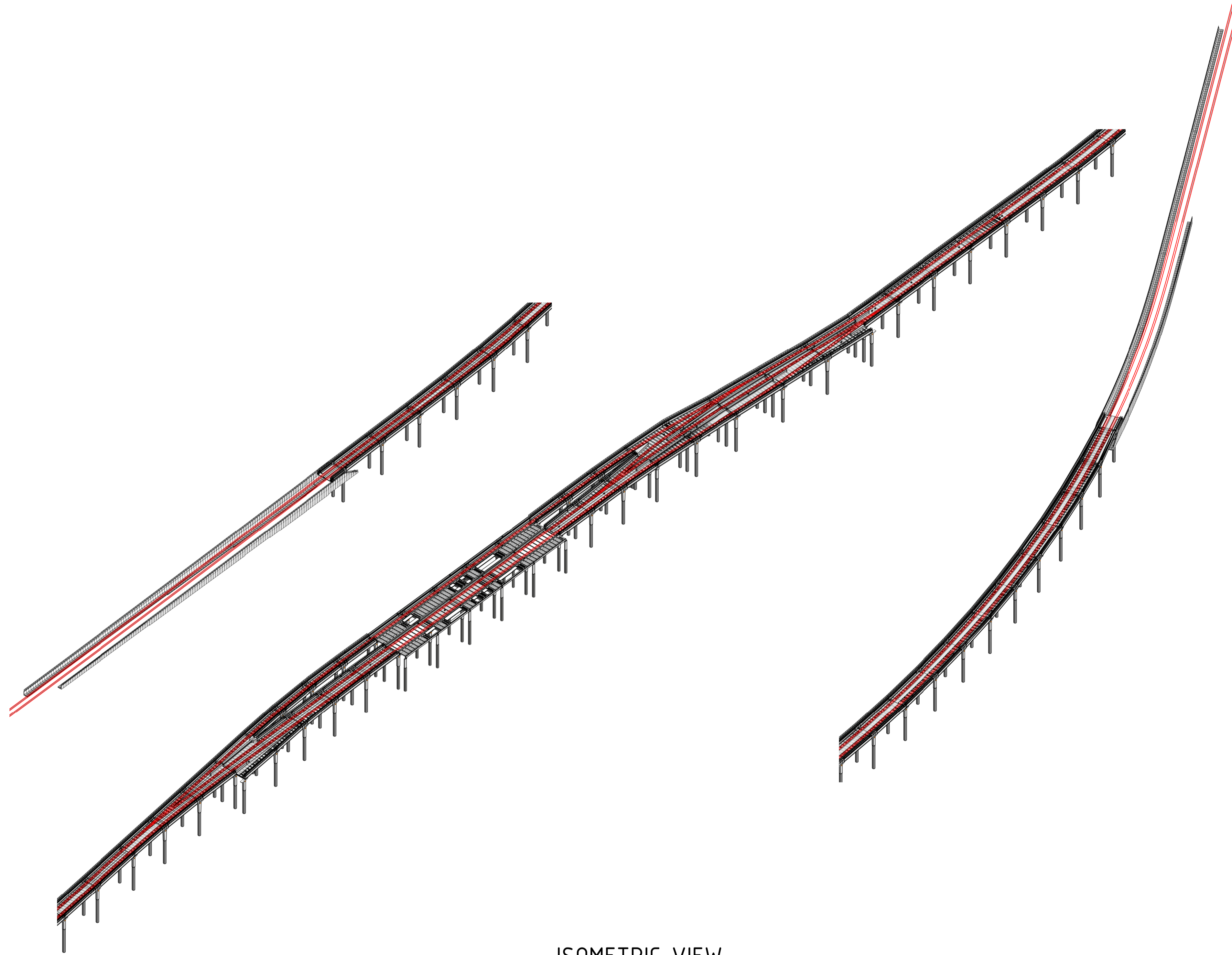


Appendix D: DA Drawings

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
VIADUCT AND TRAIN STATION



ISOMETRIC VIEW
NOT TO SCALE



LOCALITY PLAN
NOT TO SCALE

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

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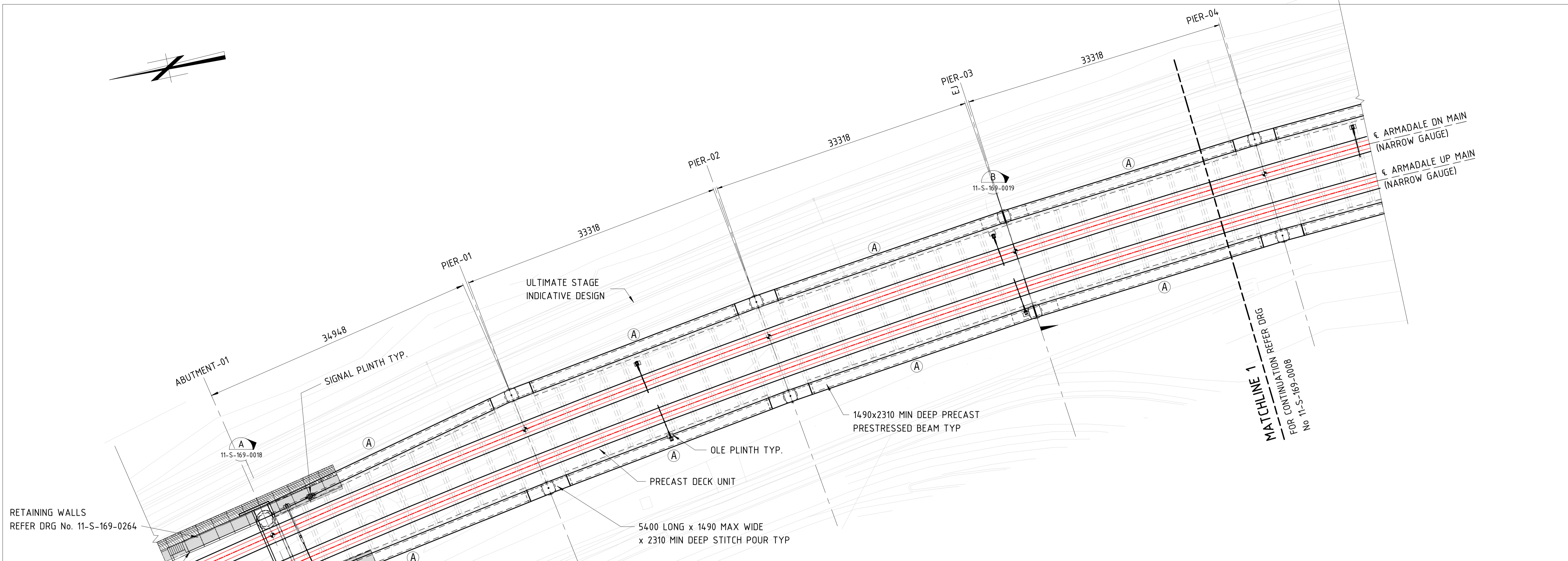
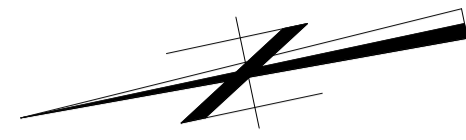
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REFERENCES

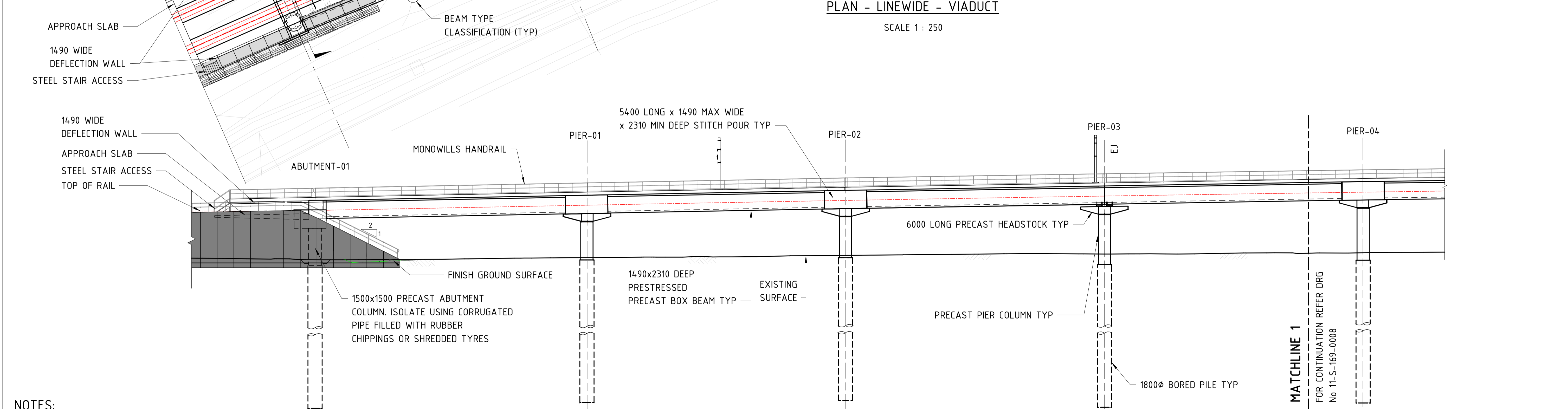
WORK IN PROGRESS	
SCALE	DESIGNED L.SCHOOF
N.T.S	DRAWN T.NGAN
DATUM	CHECKED T.FORD
HORIZONTAL: PCG2020	APPROVED
VERTICAL: AHD71	DATE

ISSUED FOR DA	
	BYFORD RAIL EXTENSION
LINEWIDE VIADUCT STRUCTURAL COVER SHEET AND LOCALITY PLAN	
PTA Drawing No: 11-S-169-0001	Rev: C.01



PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

- NOTES:**
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS		ISSUED FOR DA	
SCALE	DESIGNED	 BYFORD RAIL EXTENSION LINEWIDE VIADUCT STRUCTURAL GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 1 PTA Drawing No: 11-S-169-0007 Rev: C.01	
1 : 250 (@ A1)	L.SCHOOF		
	DRAWN		
	T.NGAN		
DATUM	CHECKED		
HORIZONTAL: PCG2020	T.FORD		
VERTICAL: AHD71	APPROVED		
	DATE		

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

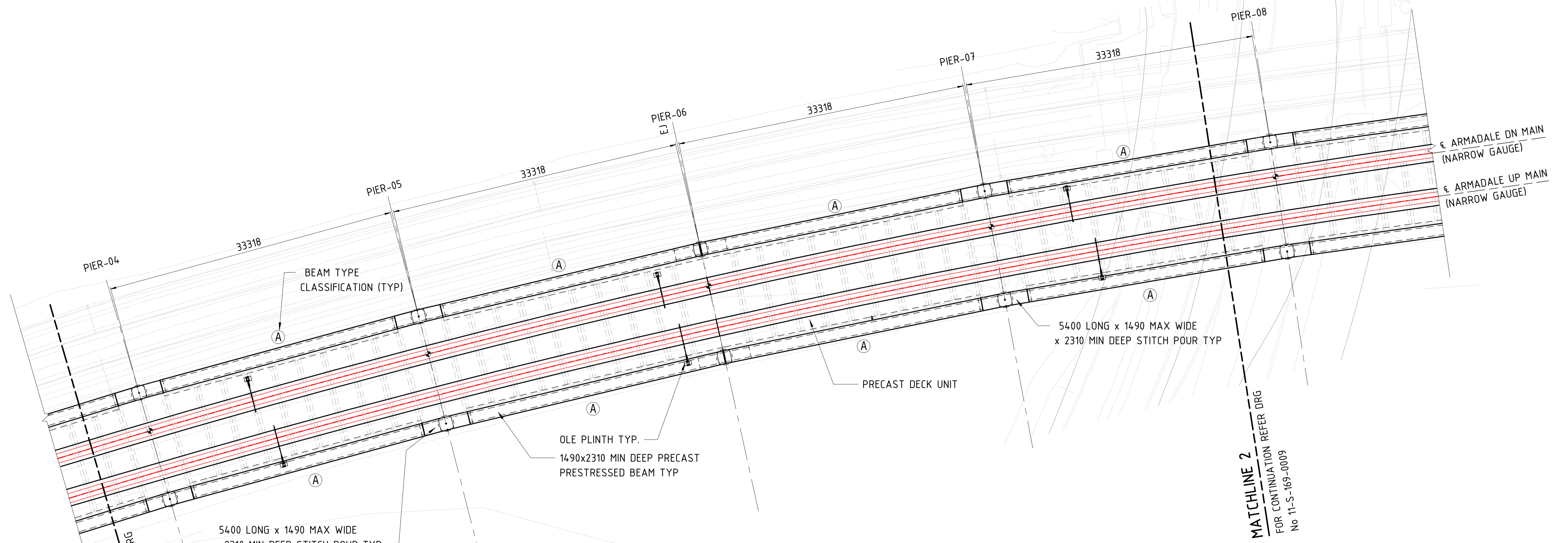
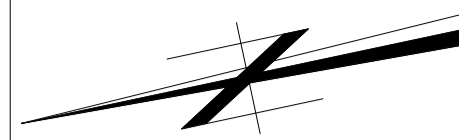
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A1 AT ORIGINAL PLOT SIZE

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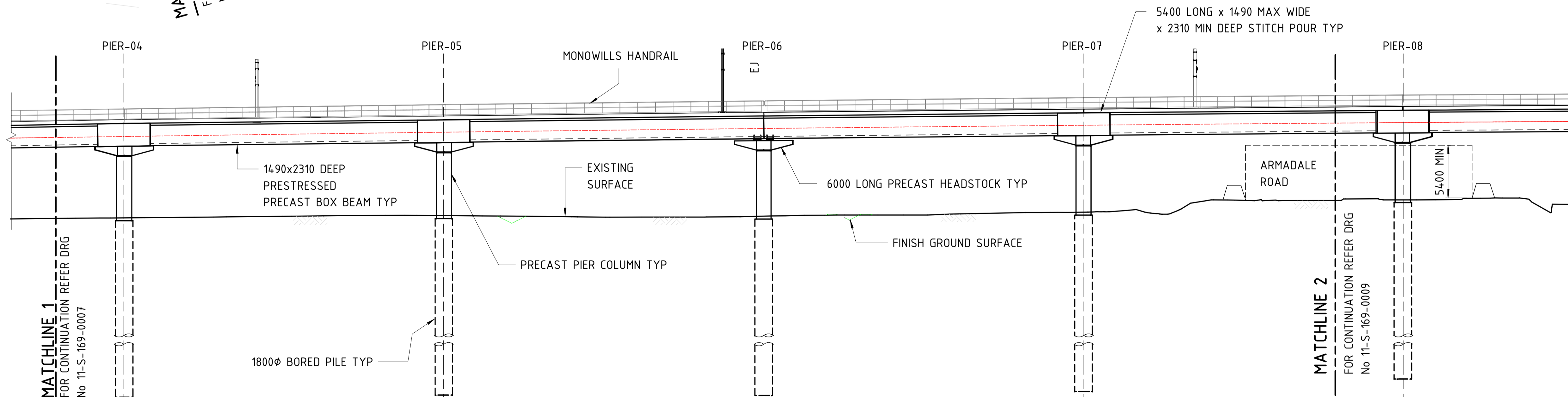
Contractor No: R30-DEA-DWG-ST-170-01010 Rev: C.01





PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

NOTES:

- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
- CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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REFERENCES

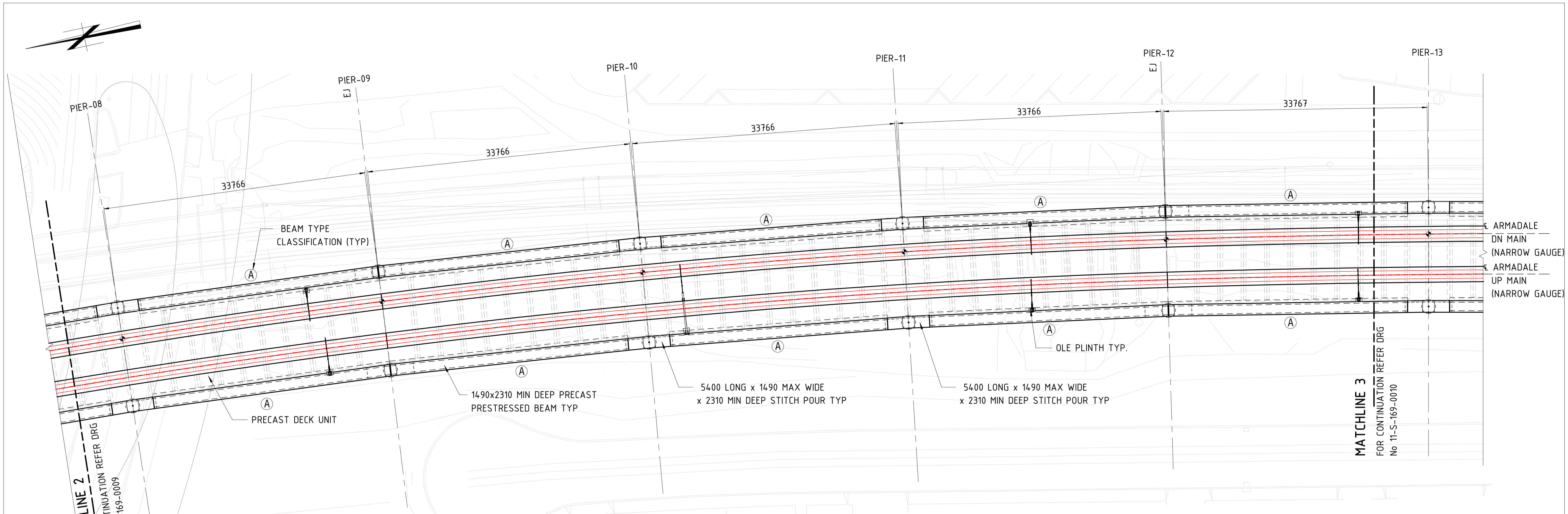
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

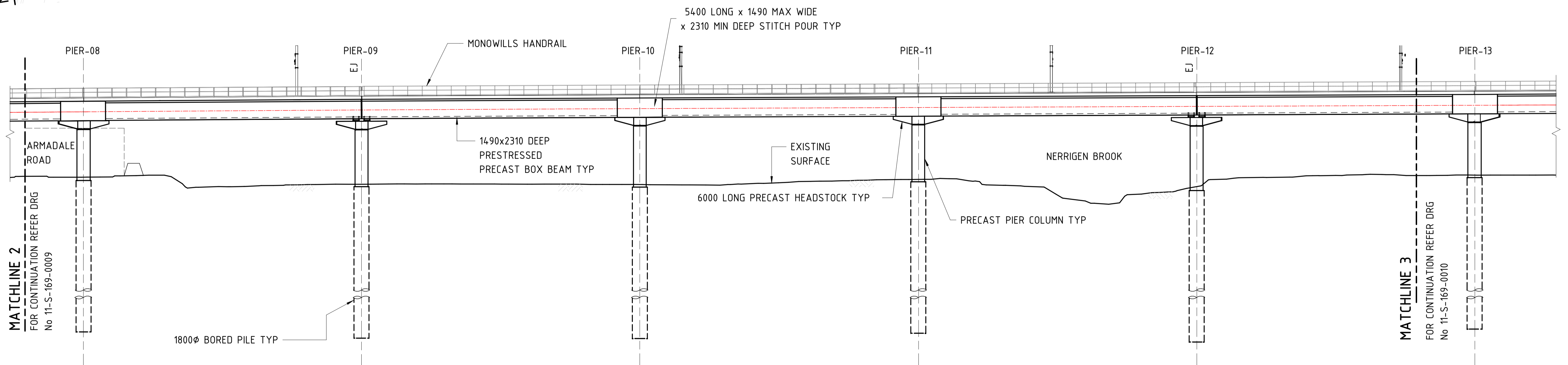
LINEWIDE VIADUCT
STRUCTURAL
GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 2

PTA Drawing No: 11-S-169-0008 Rev: C.01



PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

NOTES:

- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
- CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE: 0 100 200 300 400 500 1000mm
 AT ORIGINAL PLOT SIZE

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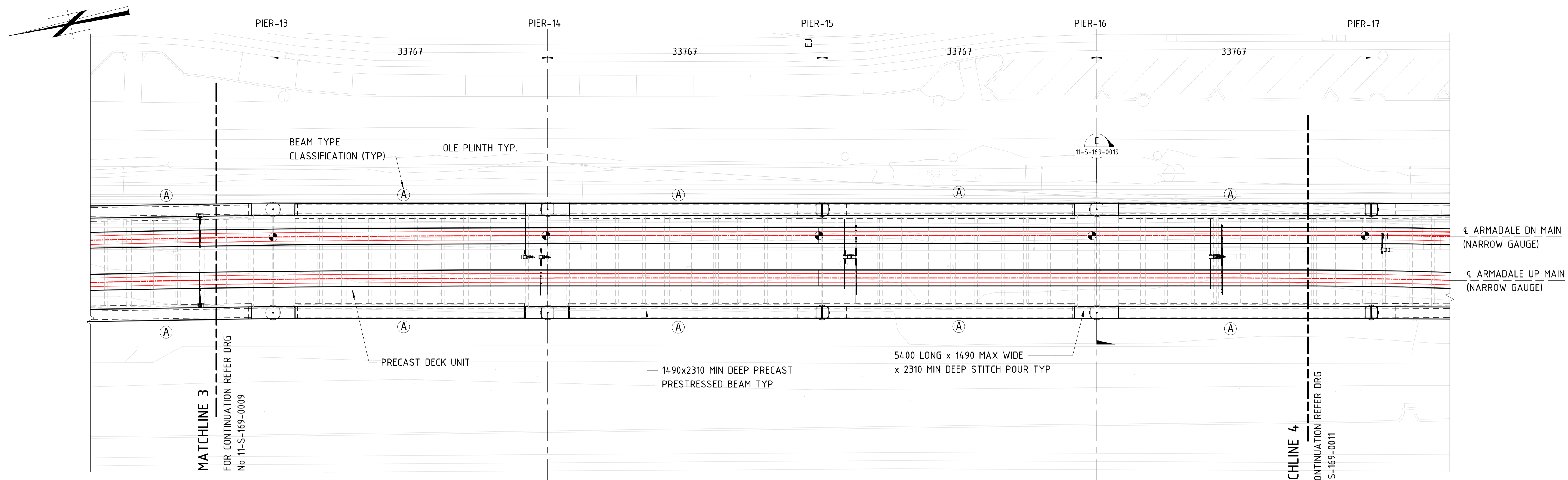
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	

Government of Western Australia
Public Transport Authority

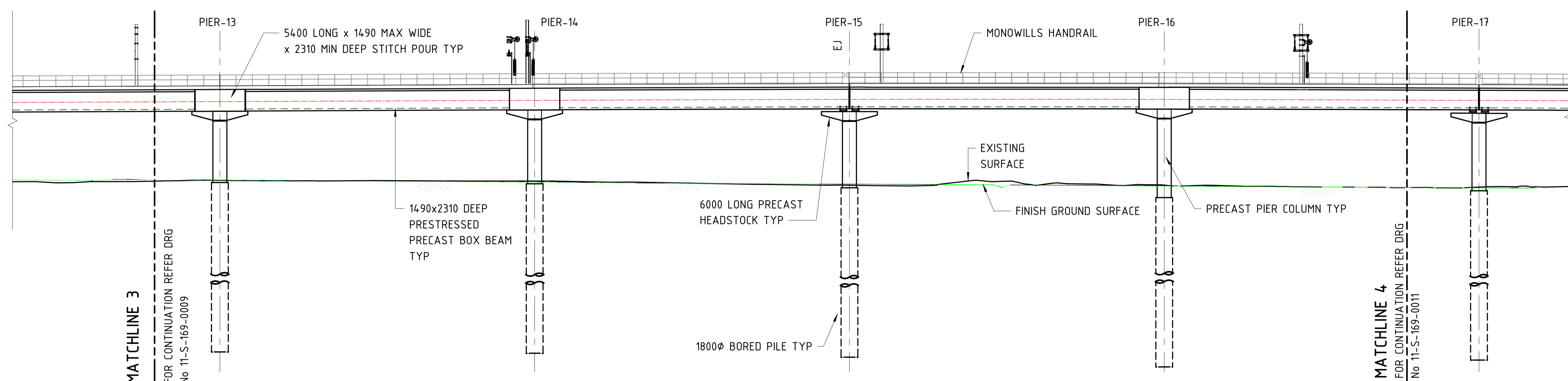
BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 3

PTA Drawing No: 11-S-169-0009 Rev: C.01



PLAN - LINEWIDE - VIADUCT
SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT
SCALE 1 : 250

- NOTES:
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS		ISSUED FOR DA	
SCALE 1 : 250 (@ A1)	DESIGNED L.SCHOOF	BYFORD RAIL EXTENSION	
	DRAWN T.NGAN	LINEWIDE VIADUCT	
	CHECKED T.FORD	STRUCTURAL	
	APPROVED	GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 4	
DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71	DATE	PTA Drawing No: 11-S-169-0010 Rev: C.01	

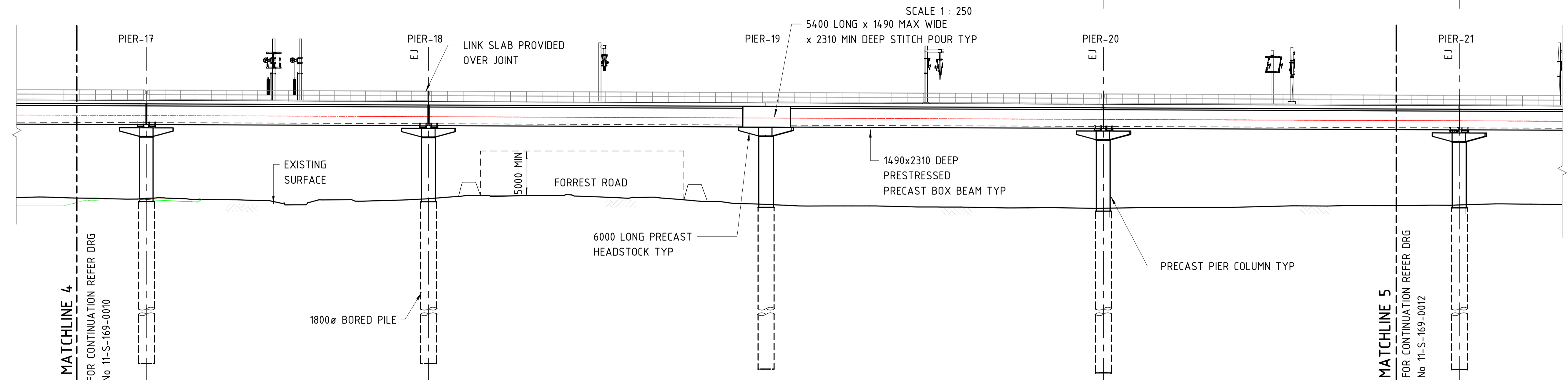
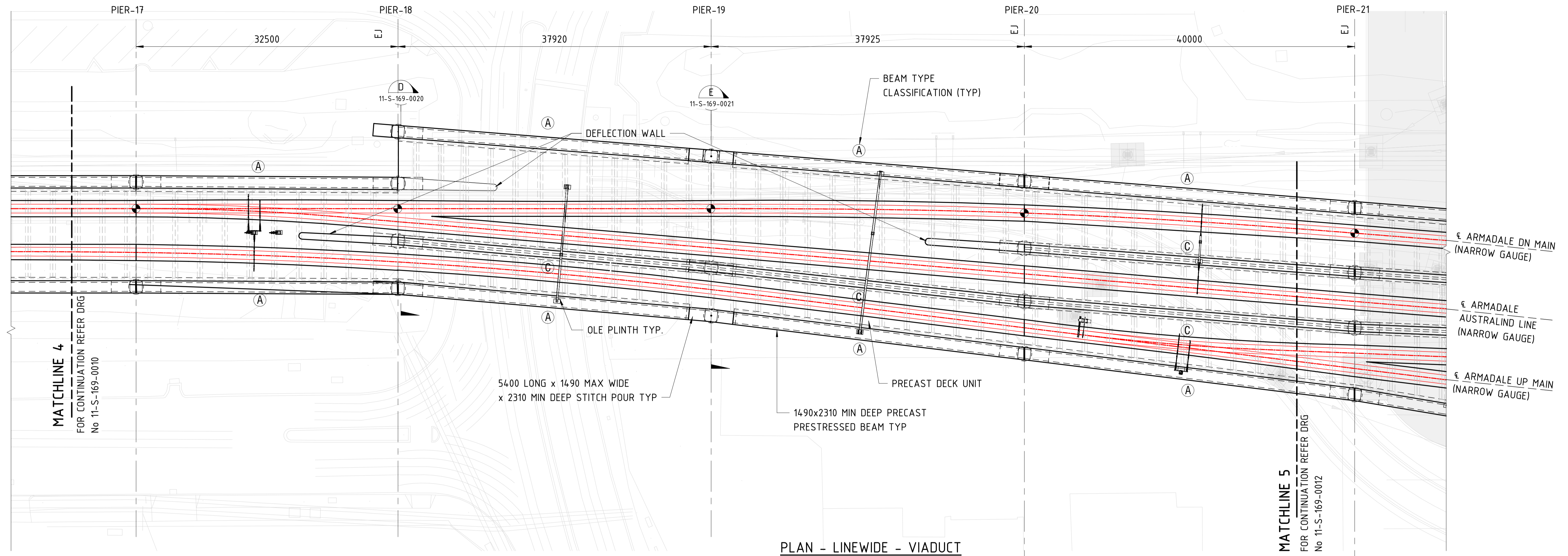
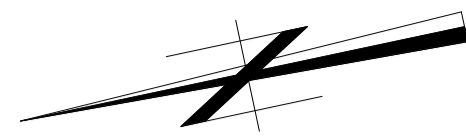


REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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- NOTES:**
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS		ISSUED FOR DA	
SCALE	DESIGNED	BYFORD RAIL EXTENSION	
1 : 250 (@ A1)	L.SCHOOF	LINEWIDE VIADUCT	
DATUM	DRAWN	STRUCTURAL	
HORIZONTAL: PCG2020	T.NGAN	GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 5	
VERTICAL: AHD71	CHECKED	PTA Drawing No: 11-S-169-0011	
	T.FORD	Rev: C.01	
	APPROVED		
	DATE		



REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

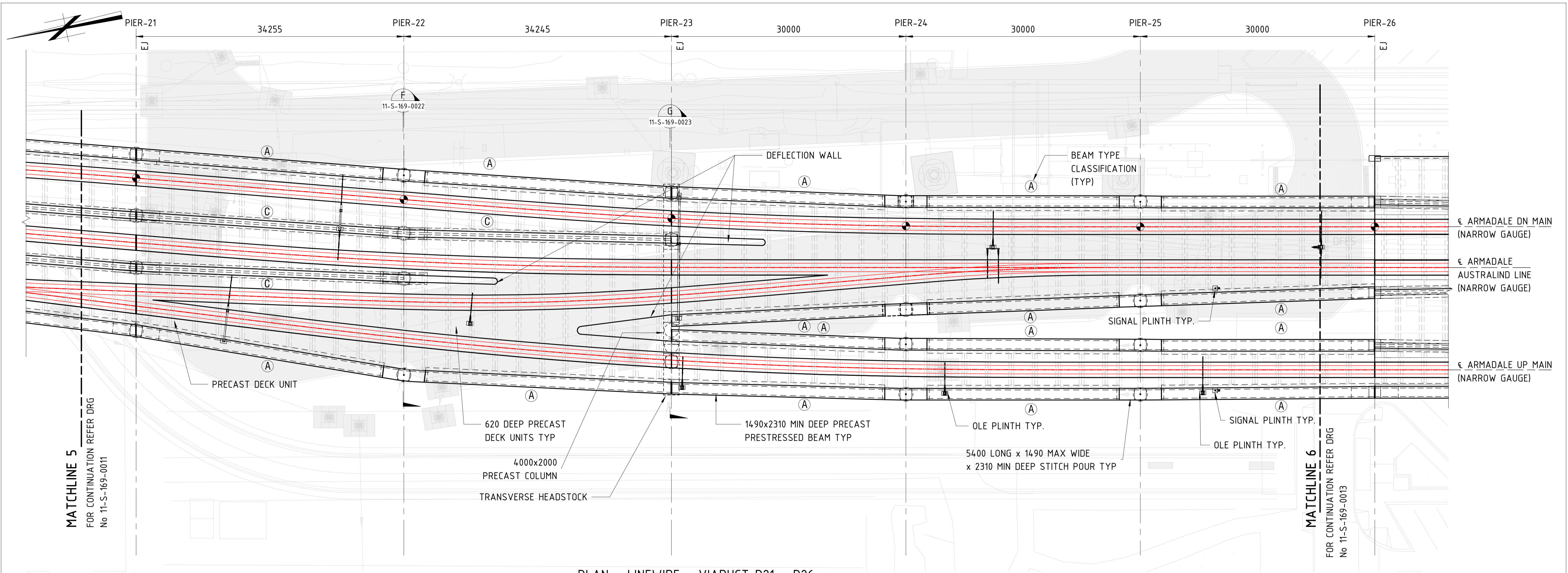
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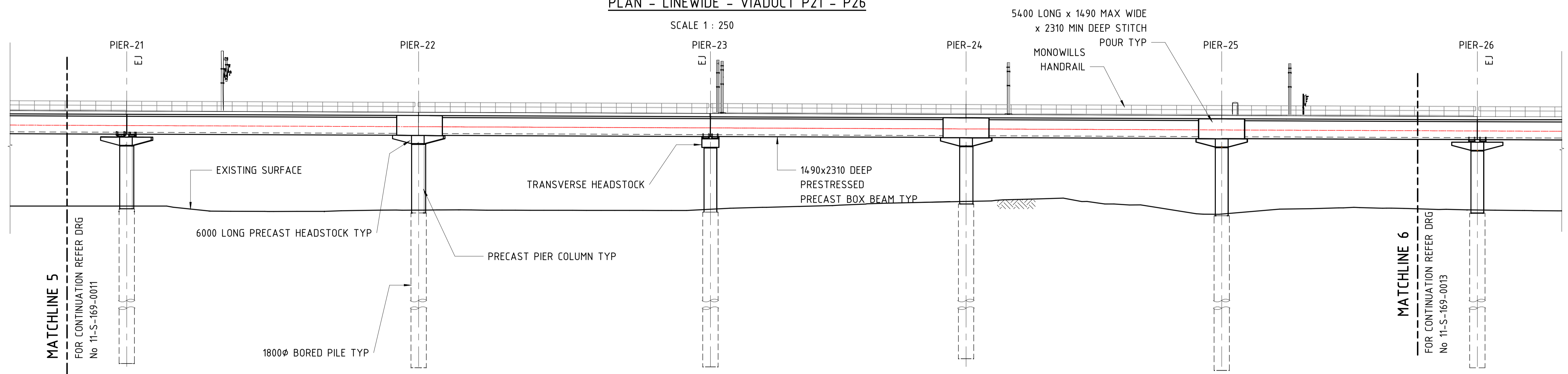
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PLAN - LINEWIDE - VIADUCT P21 - P26

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

- NOTES:**
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS		ISSUED FOR DA	
SCALE 1 : 250 (@ A1)	DESIGNED L.SCHOOF	BYFORD RAIL EXTENSION	
	DRAWN T.NGAN	LINEWIDE VIADUCT	
	CHECKED T.FORD	STRUCTURAL	
DATUM	APPROVED	GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 6	
HORIZONTAL: PCG2020	DATE	PTA Drawing No: 11-S-169-0012 Rev: C.01	
VERTICAL: AHD71			

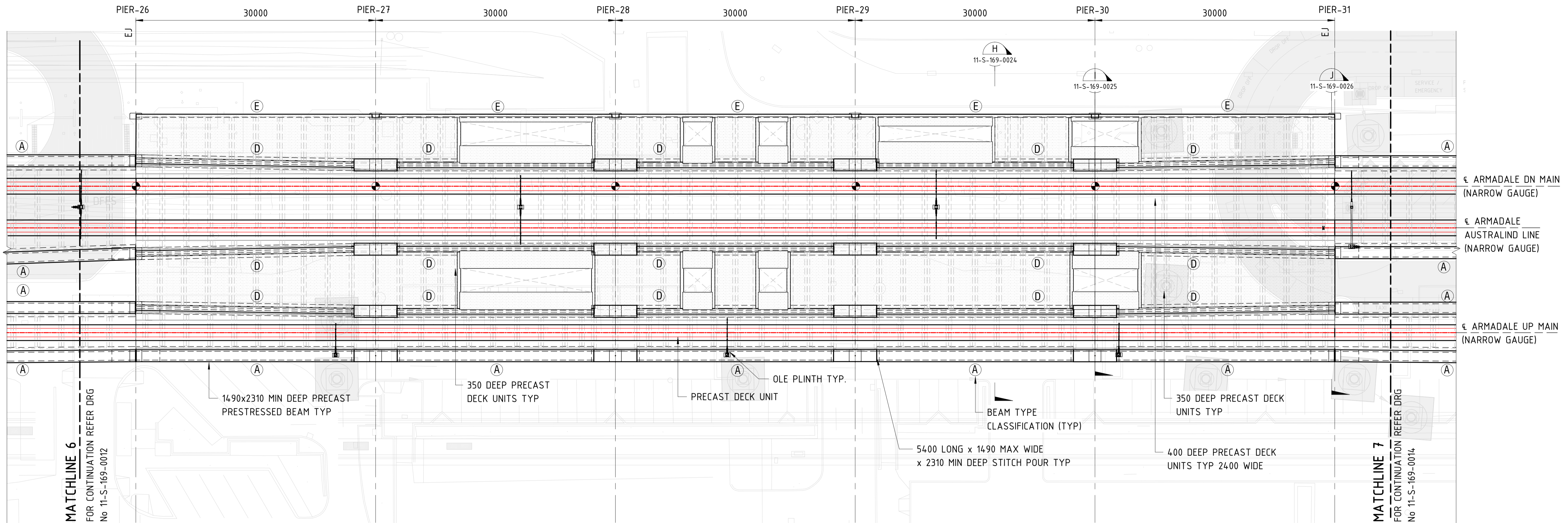
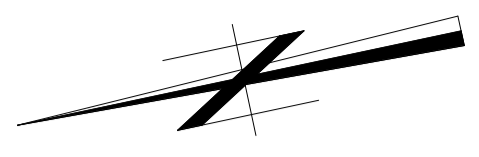
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE: 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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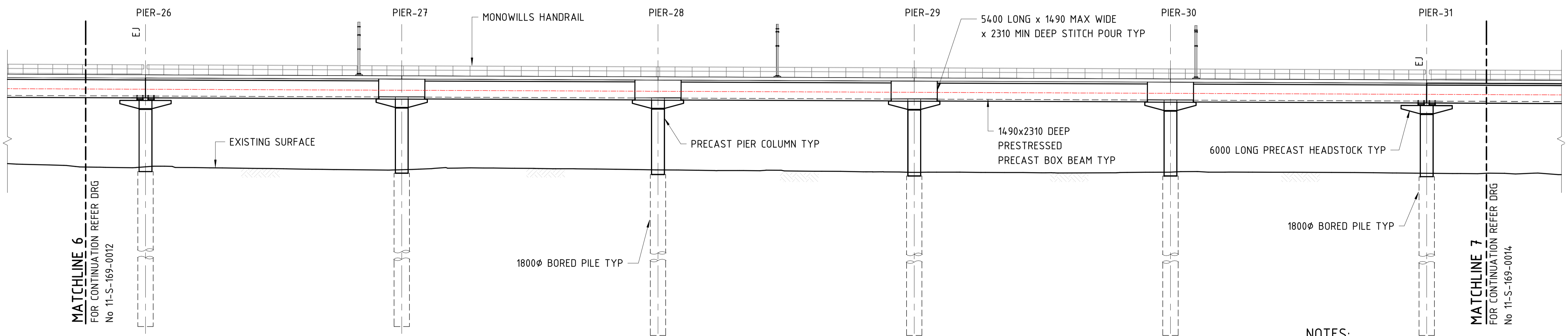


Contractor No: R30-DEA-DWG-ST-170-01015 | Rev: C.01



PLAN- ARMADALE STATION - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - ARMADALE STATION - VIADUCT

SCALE 1 : 250

- NOTES:**
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE: 0 100 200 300 400 500 1000mm
 A1 AT ORIGINAL PLOT SIZE

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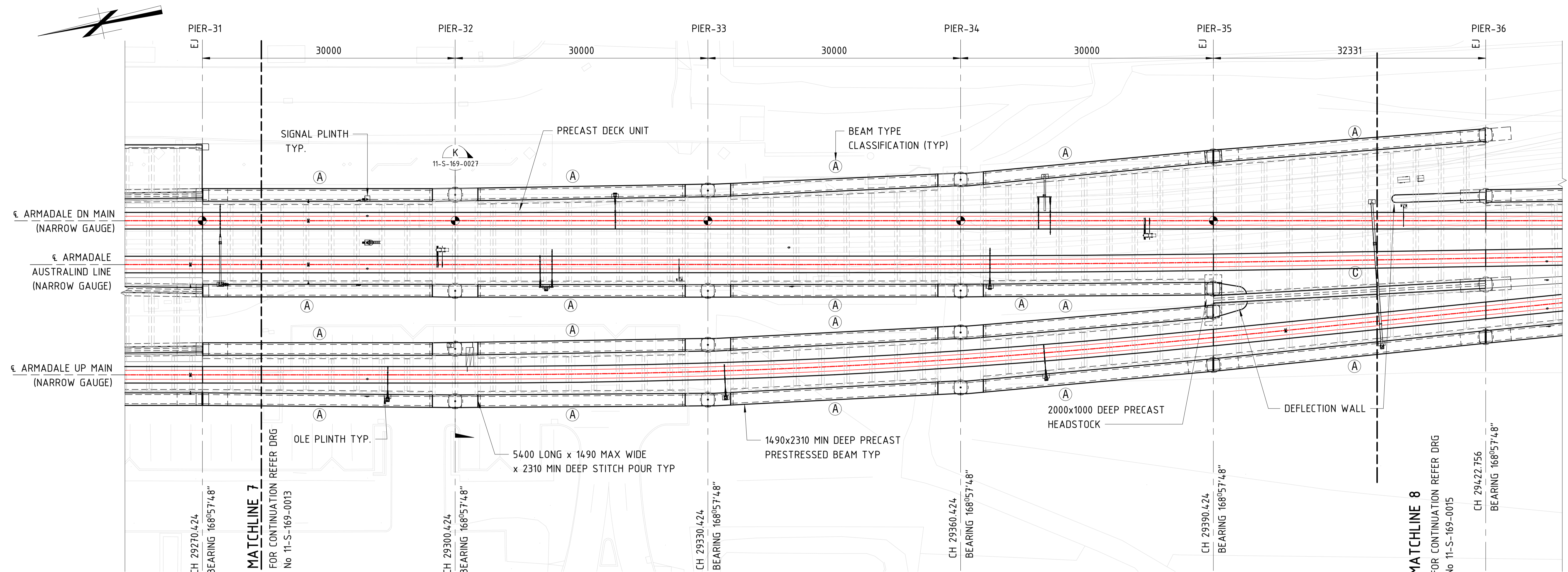
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

Government of Western Australia
 Public Transport Authority

BYFORD RAIL EXTENSION

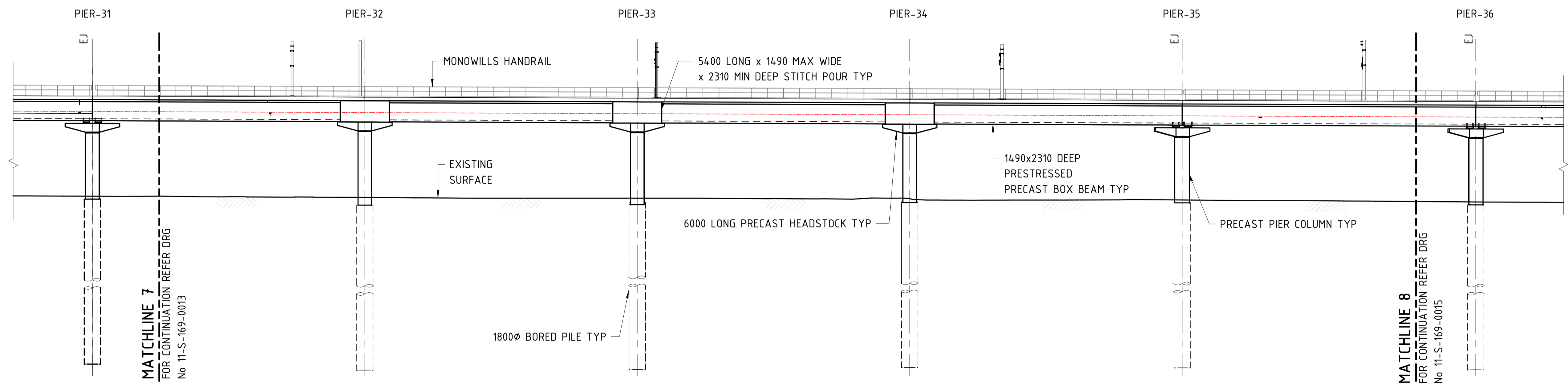
LINEWIDE VIADUCT
 STRUCTURAL
 GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 7

PTA Drawing No: 11-S-169-0013 Rev: C.01



PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

NOTES:

- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
- CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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REFERENCES

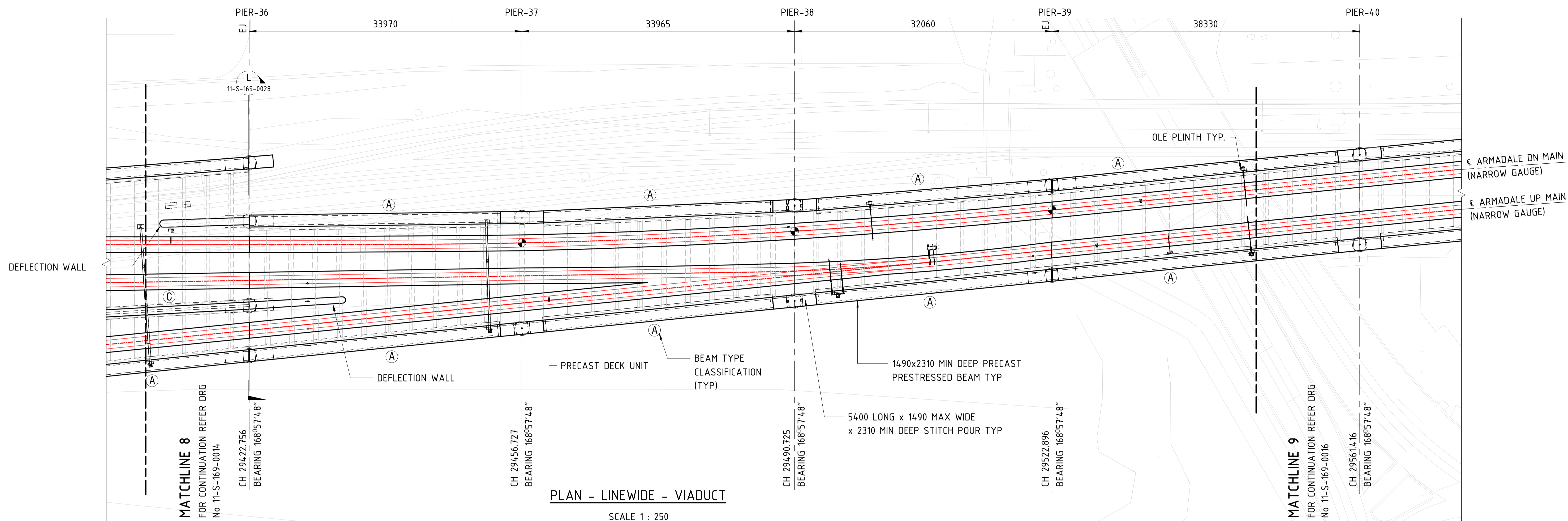
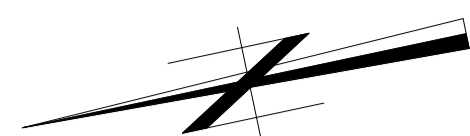
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

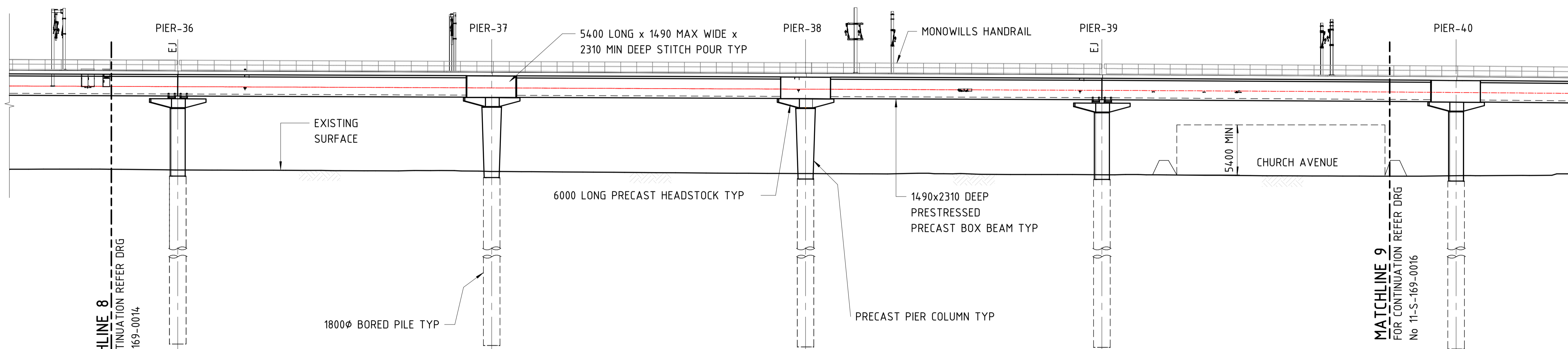
LINEWIDE VIADUCT
STRUCTURAL
GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 8

PTA Drawing No: 11-S-169-0014 Rev: C.01



PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

NOTES:

- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
- CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01018 Rev: C.01

REFERENCES	SCALE	DESIGNED	DESIGNED
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		DRAWN	T.NGAN
		CHECKED	T.FORD
		APPROVED	
		DATE	

DATUM

HORIZONTAL: PCG2020

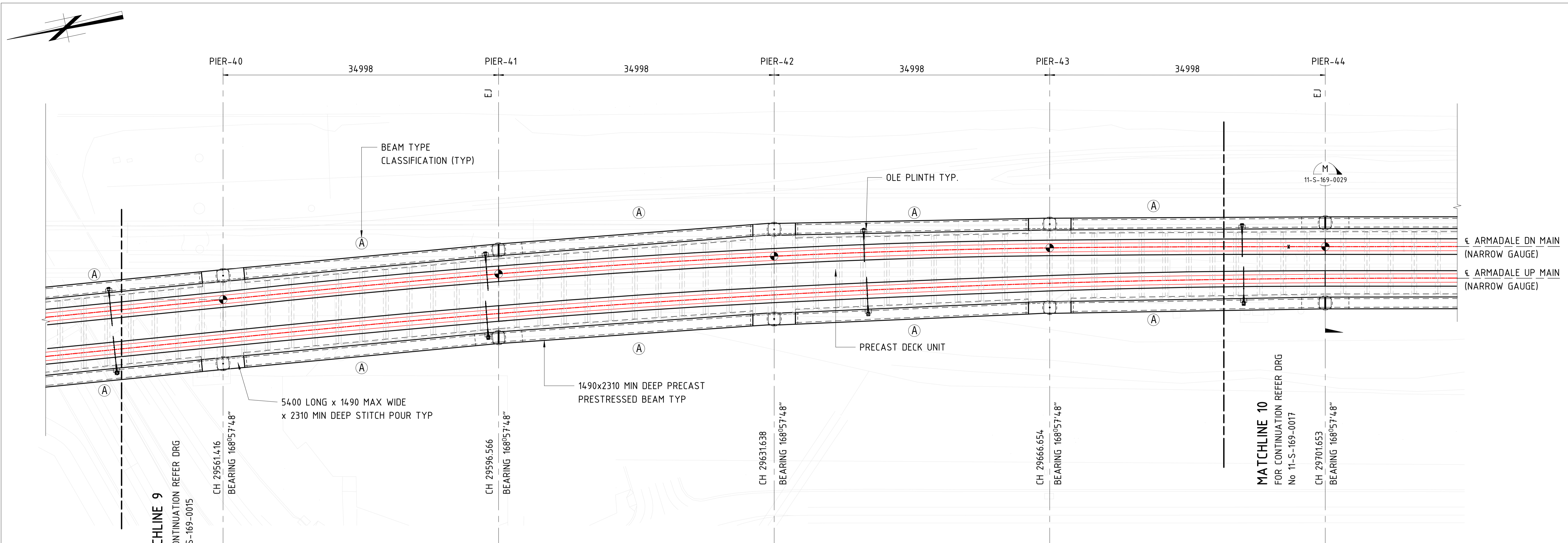
VERTICAL: AHD71

Government of Western Australia
Public Transport Authority

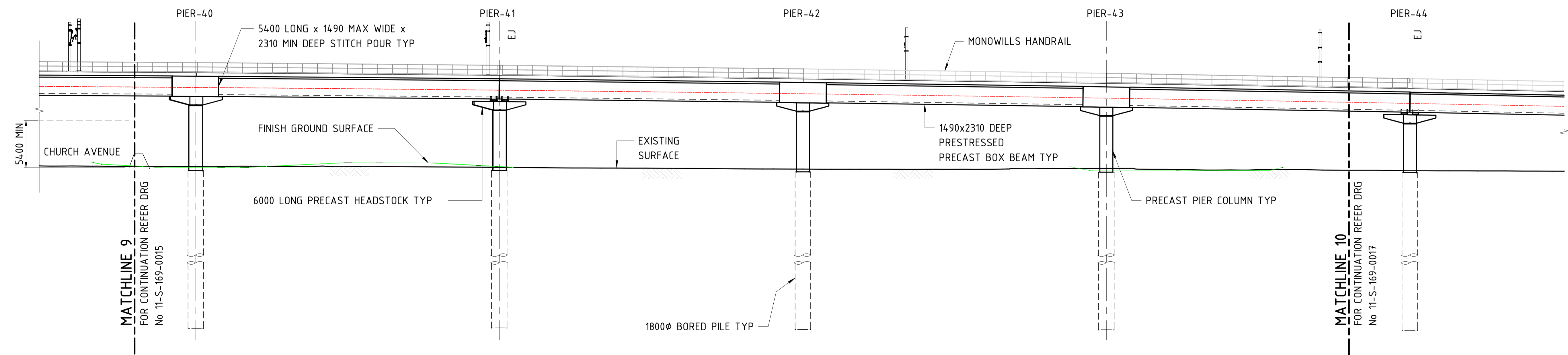
BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 9

PTA Drawing No: 11-S-169-0015 Rev: C.01



PLAN - LINEWIDE - VIADUCT
SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT
SCALE 1 : 250

- NOTES:
- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
 - CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01019 Rev: C.01



REFERENCES	SCALE	DESIGNED
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		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

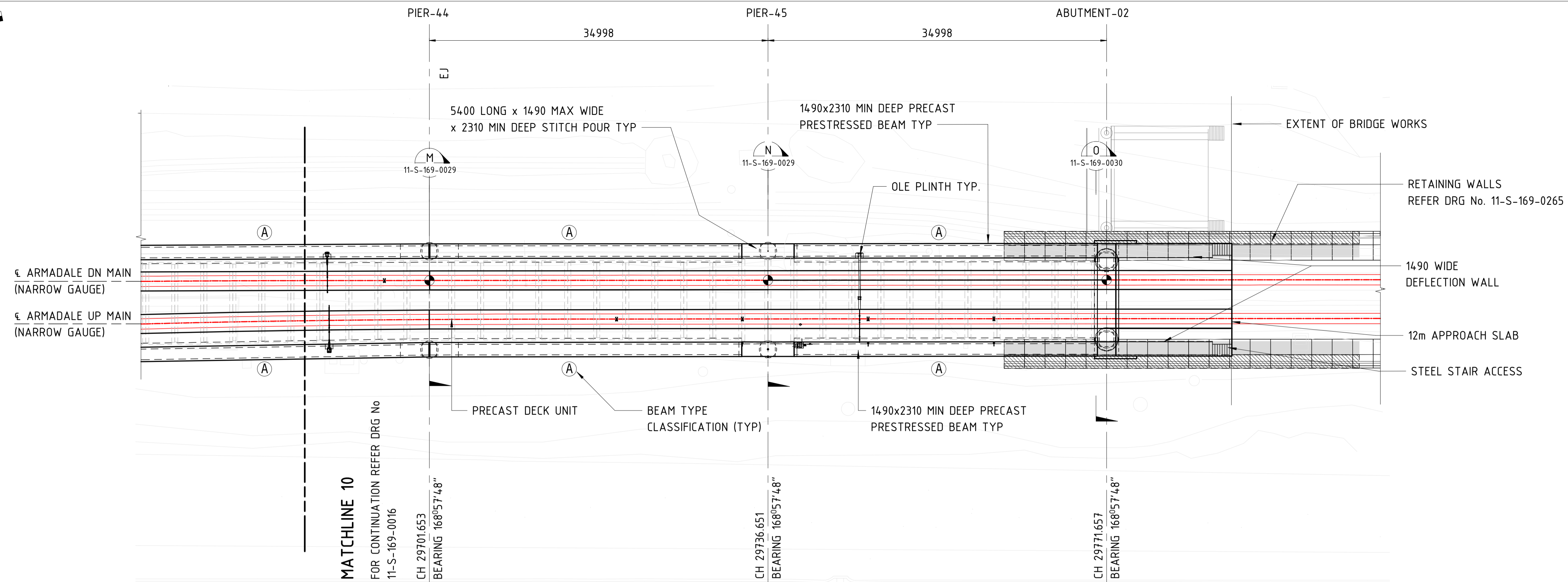
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

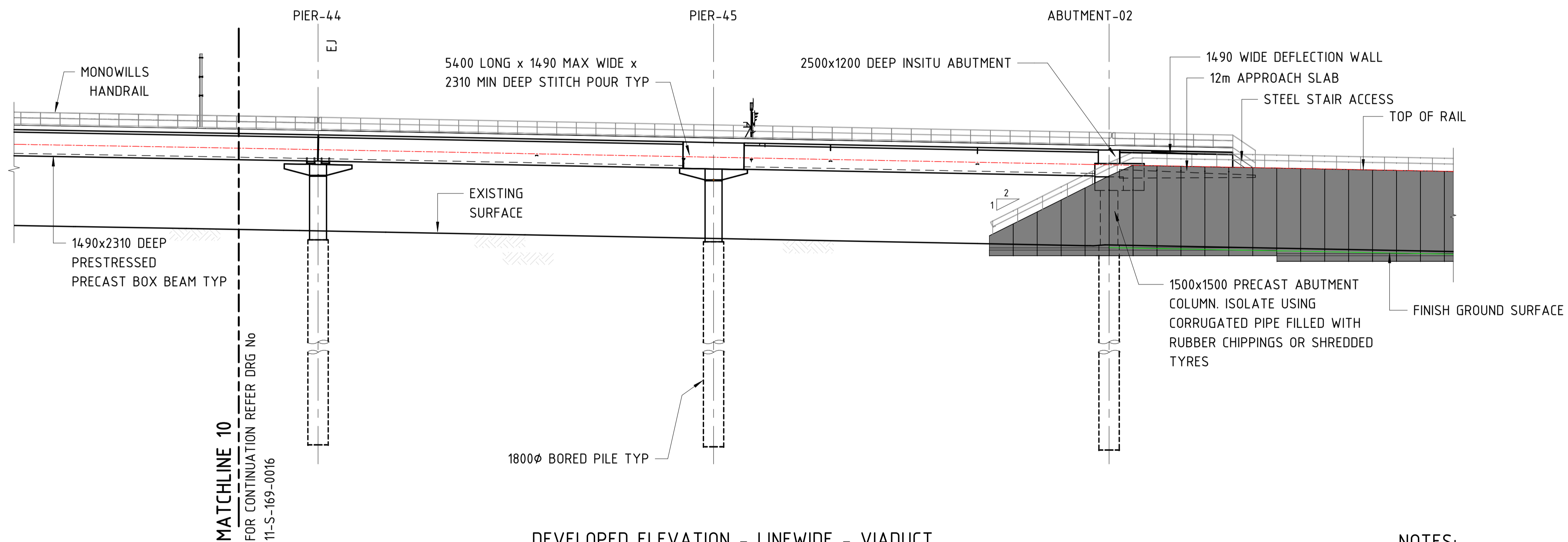
GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 10

PTA Drawing No: 11-S-169-0016 Rev: C.01



PLAN - LINEWIDE - VIADUCT

SCALE 1 : 250



DEVELOPED ELEVATION - LINEWIDE - VIADUCT

SCALE 1 : 250

NOTES:

- FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005
- CHAINAGES SHOWN ARE ALONG ARMADALE DOWN TRACK CENTER LINE

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	T.F	T.N	D.S	



REFERENCES

SCALE	1 : 250 (@ A1)
DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

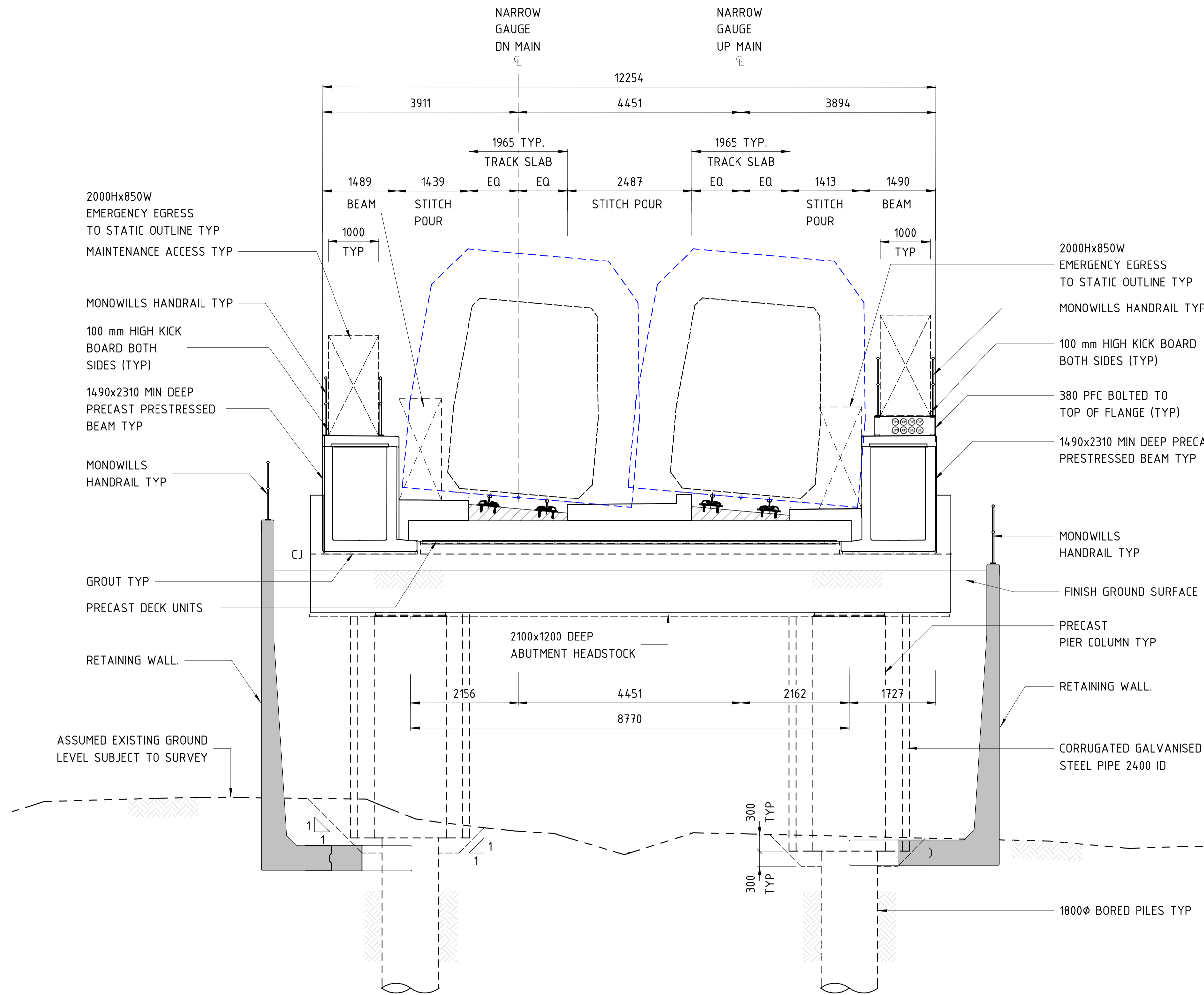
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

GENERAL ARRANGEMENT PLAN & ELEVATION - SHEET 11

PTA Drawing No: 11-S-169-0017 Rev: C.01



ABUTMENT 01
SECTION A
SCALE 1 : 50 11-S-169-0007

- NOTES:**
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

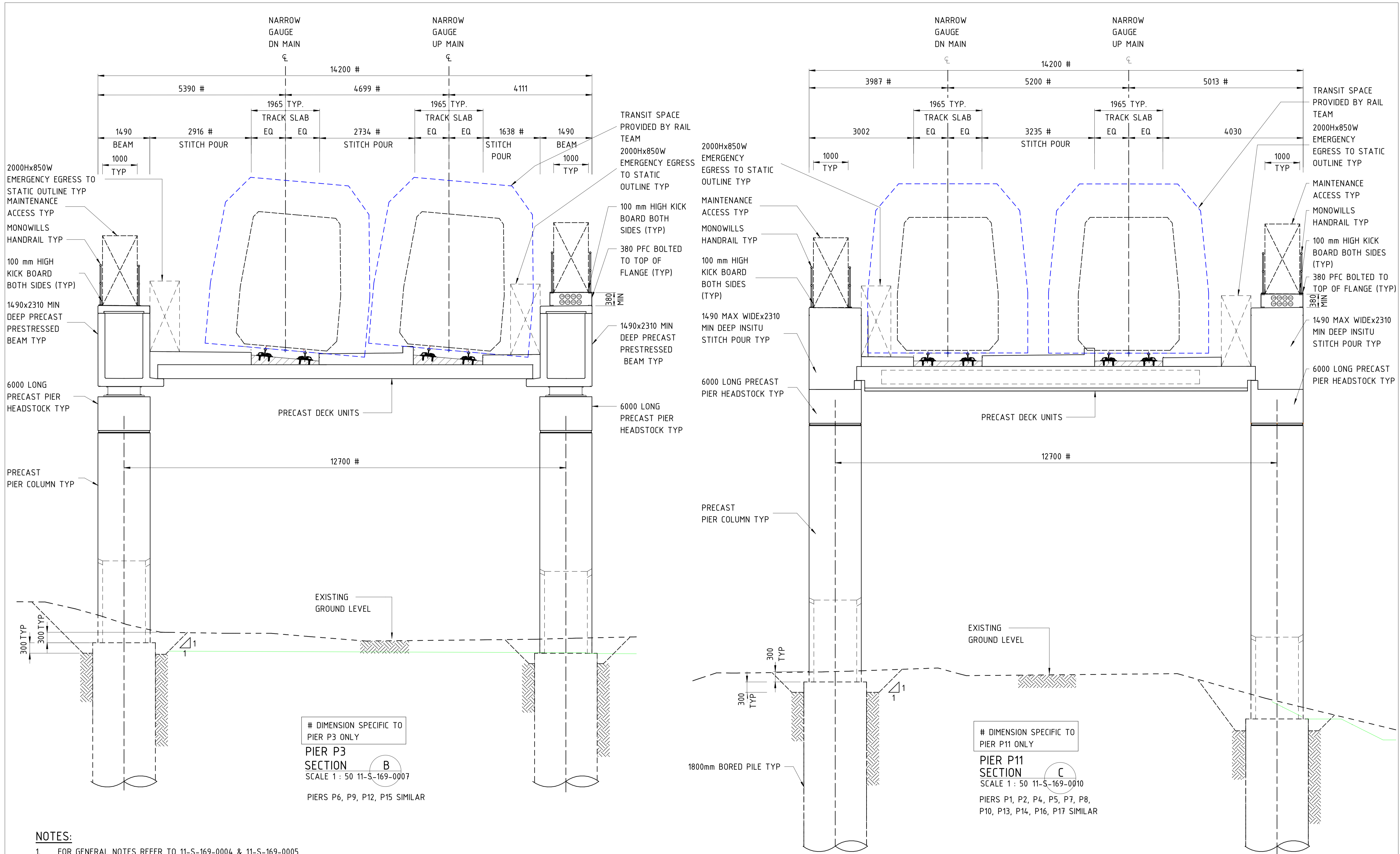
ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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REFERENCES	SCALE	DESIGNED
	1 : 50 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

DATUM	HORIZONTAL	VERTICAL	PTA Drawing No:	Rev:
	PCG2020	AHD71	11-S-169-0018	C.01



NOTES:
 1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

DIMENSION SPECIFIC TO PIER P3 ONLY
PIER P3 SECTION B
 SCALE 1 : 50 11-S-169-0007
 PIERS P6, P9, P12, P15 SIMILAR

DIMENSION SPECIFIC TO PIER P11 ONLY
PIER P11 SECTION C
 SCALE 1 : 50 11-S-169-0010
 PIERS P1, P2, P4, P5, P7, P8, P10, P13, P14, P16, P17 SIMILAR

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
 A1 AT ORIGINAL PLOT SIZE

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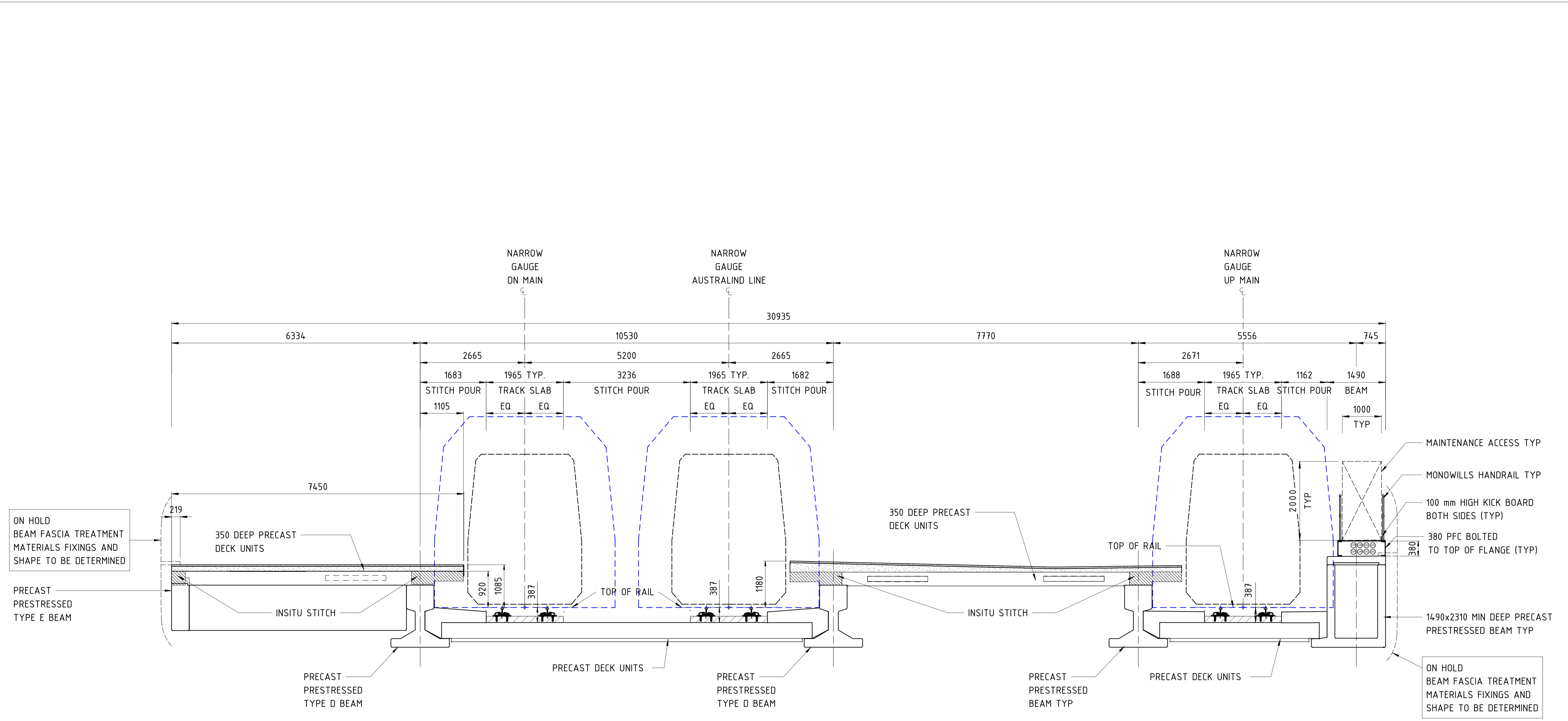
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		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
 Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT STRUCTURAL SECTIONS - SHEET 02

PTA Drawing No: **11-S-169-0019** Rev: **C.01**



SECTION H
SCALE 1:50 11-S-169-0013

NOTES:
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

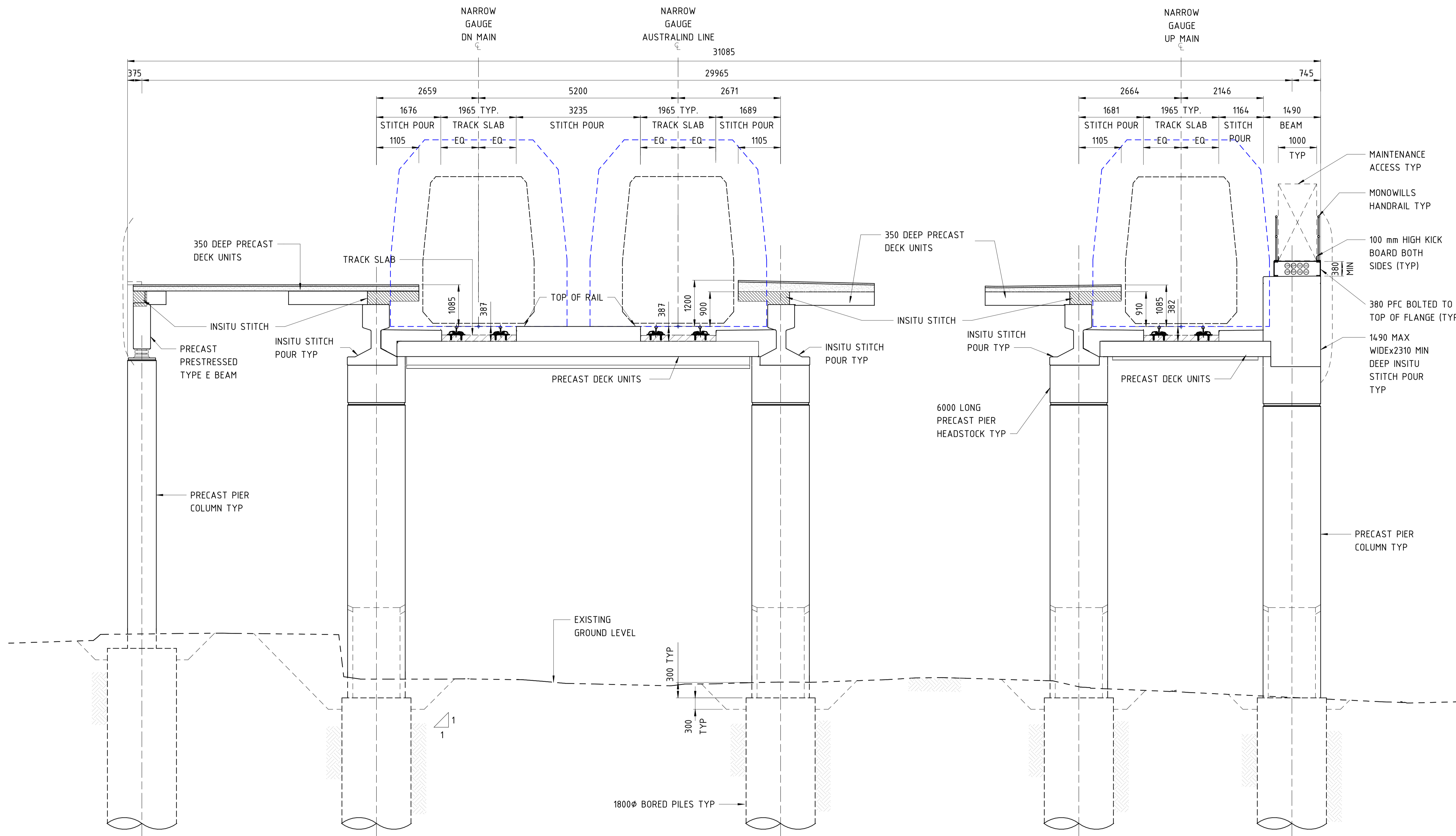
WORK IN PROGRESS **ISSUED FOR DA**

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B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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A1	AT ORIGINAL PLOT SIZE		Contractor No: R30-DEA-DWG-ST-170-01027 Rev: C.01			



REFERENCES	SCALE 1:50 (@ A1)	DESIGNED L.SCHOOF
	DATUM	DRAWN T.NGAN
	HORIZONTAL: PCG2020	CHECKED T.FORD
	VERTICAL: AHD71	APPROVED
		DATE

BYFORD RAIL EXTENSION
LINEWIDE VIADUCT
STRUCTURAL
SECTIONS - SHEET 07
 PTA Drawing No: **11-S-169-0024** Rev: **C.01**



PIER-30
PIERS 27, 28, 29 SIMILAR

SECTION I
SCALE 1 : 50 11-S-169-0013

- NOTES:**
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W.	T.N.	D.S.	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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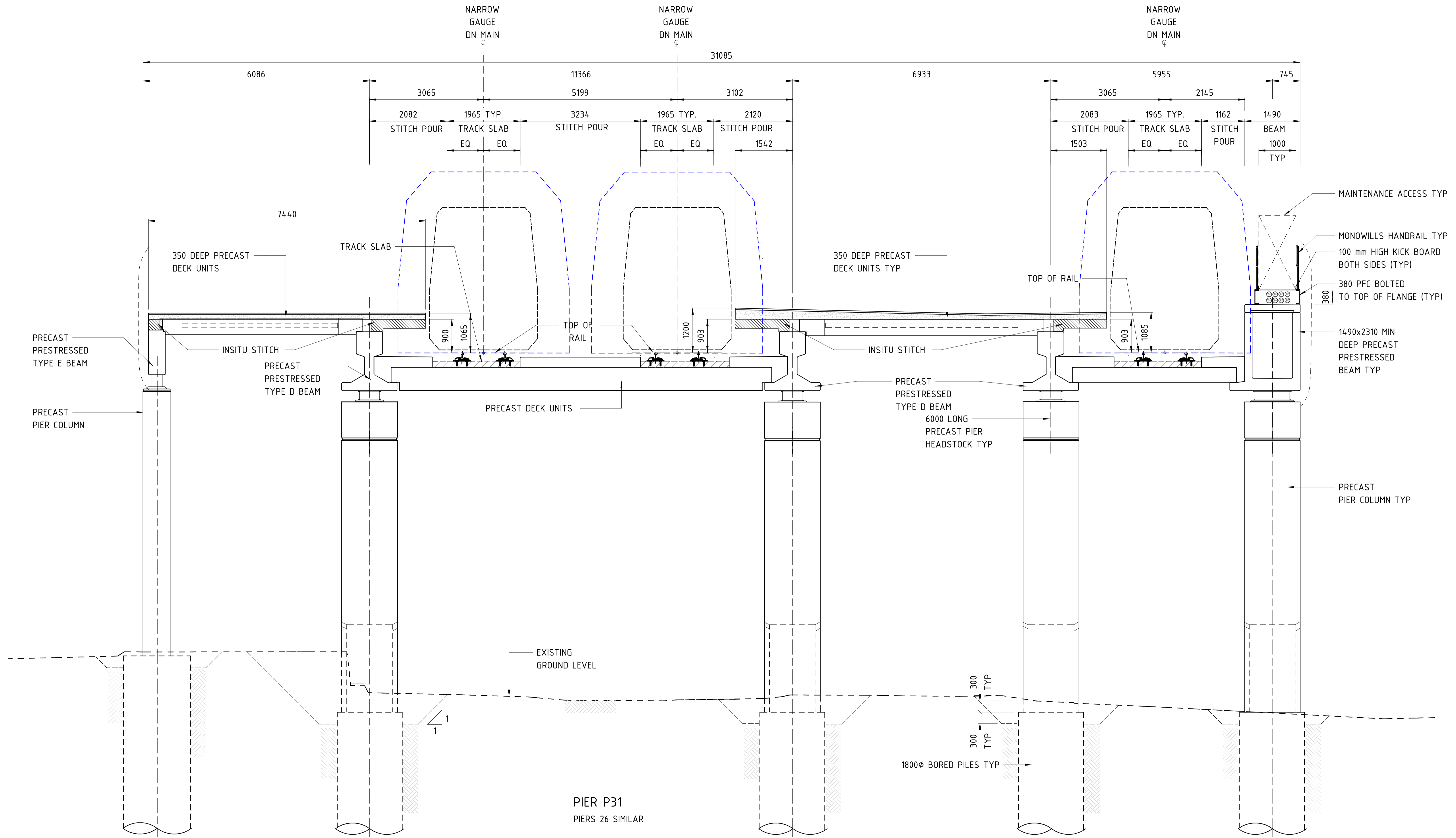
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	1 : 50 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
SECTIONS - SHEET 08

PTA Drawing No: 11-S-169-0025 Rev: C.01



SECTION **J**
SCALE 1 : 50 11-S-169-0013

NOTES:
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

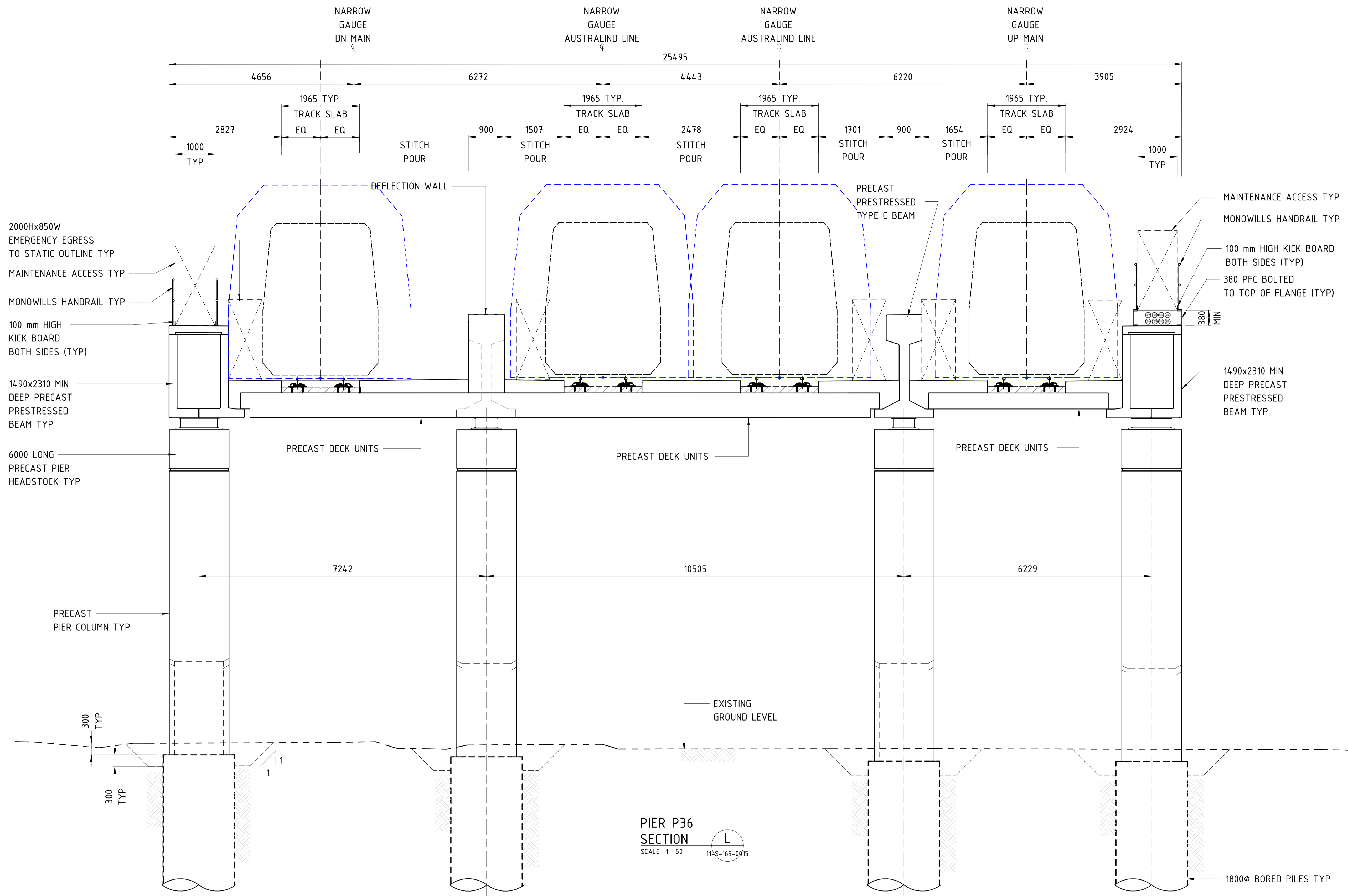
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A1 AT ORIGINAL PLOT SIZE

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REFERENCES	SCALE	DESIGNED
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		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia Public Transport Authority	
BYFORD RAIL EXTENSION	
LINEWIDE VIADUCT STRUCTURAL SECTIONS - SHEET 09	
PTA Drawing No:	11-S-169-0026
Rev:	C.01



PIER P36 SECTION
SCALE 1:50

NOTES:
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS | **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W.	T.N.	D.S.	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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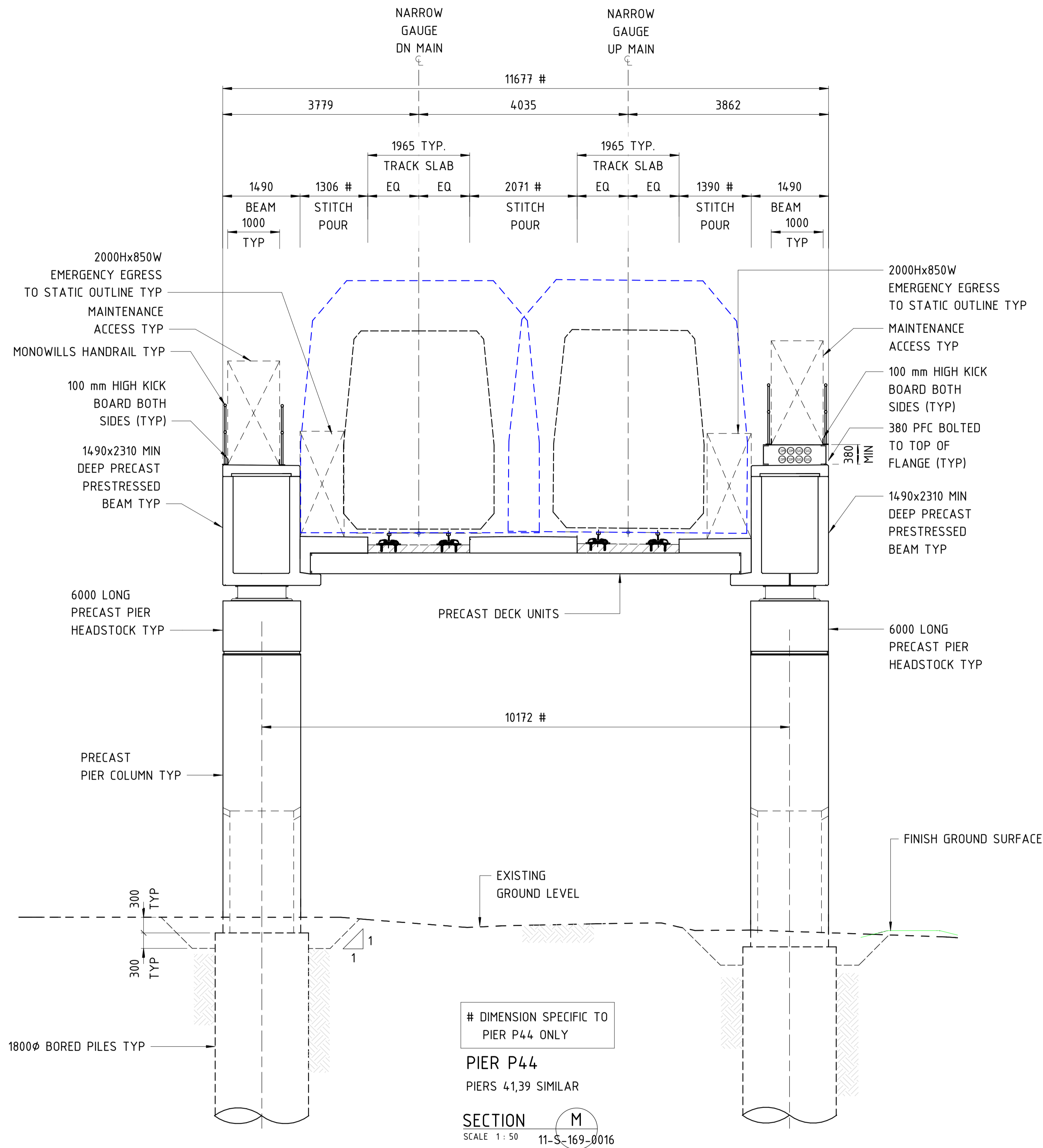
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		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
Public Transport Authority

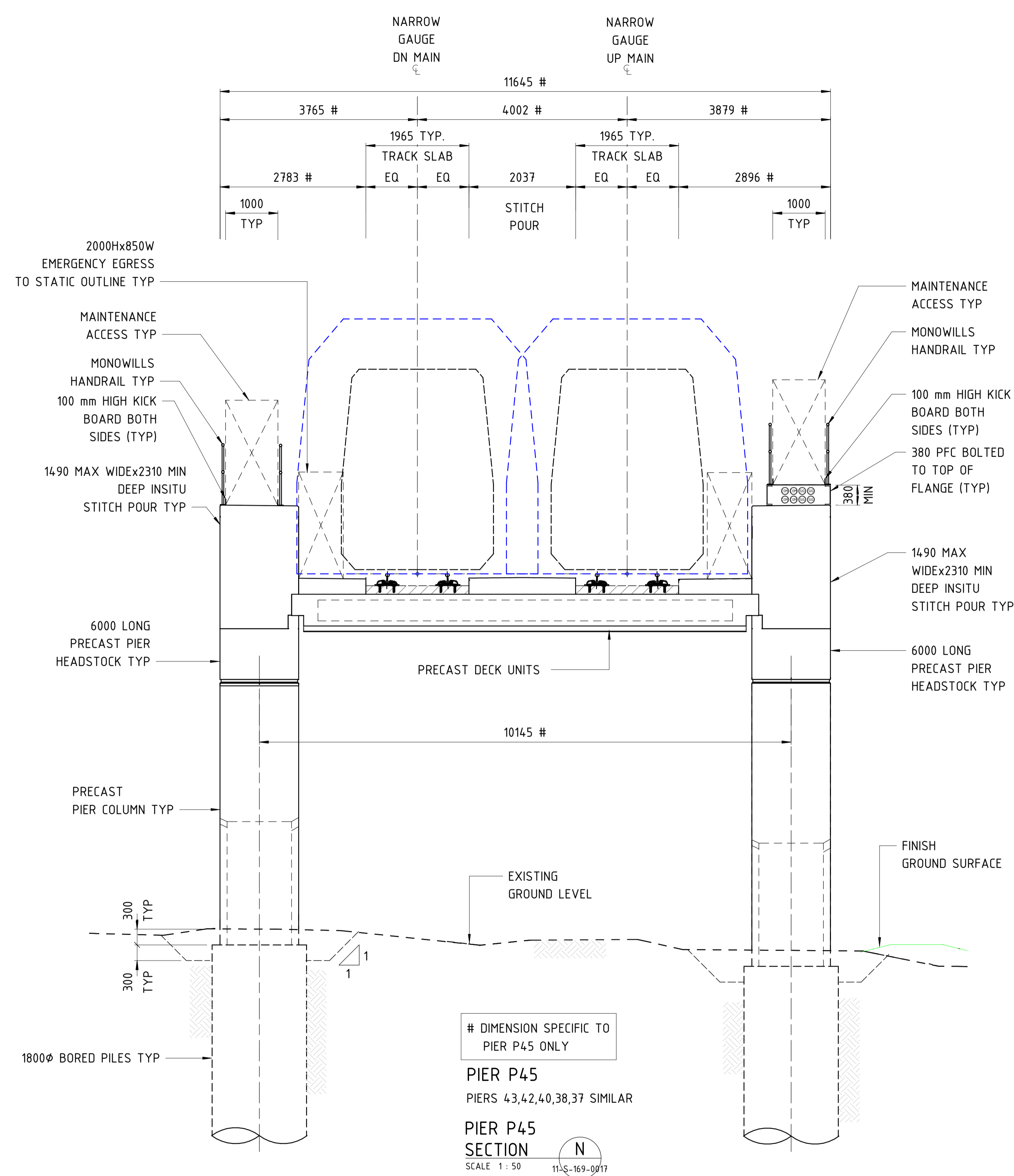
BYFORD RAIL EXTENSION

LINERIDE VIADUCT
STRUCTURAL
SECTIONS - SHEET 11

PTA Drawing No: 11-S-169-0028 Rev: C.01



DIMENSION SPECIFIC TO PIER P44 ONLY
PIER P44
 PIERS 41,39 SIMILAR
SECTION M
 SCALE 1:50 11-S-169-0016



DIMENSION SPECIFIC TO PIER P45 ONLY
PIER P45
 PIERS 43,42,40,38,37 SIMILAR
SECTION N
 SCALE 1:50 11-S-169-0017

NOTES:
 1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
 A1 AT ORIGINAL PLOT SIZE

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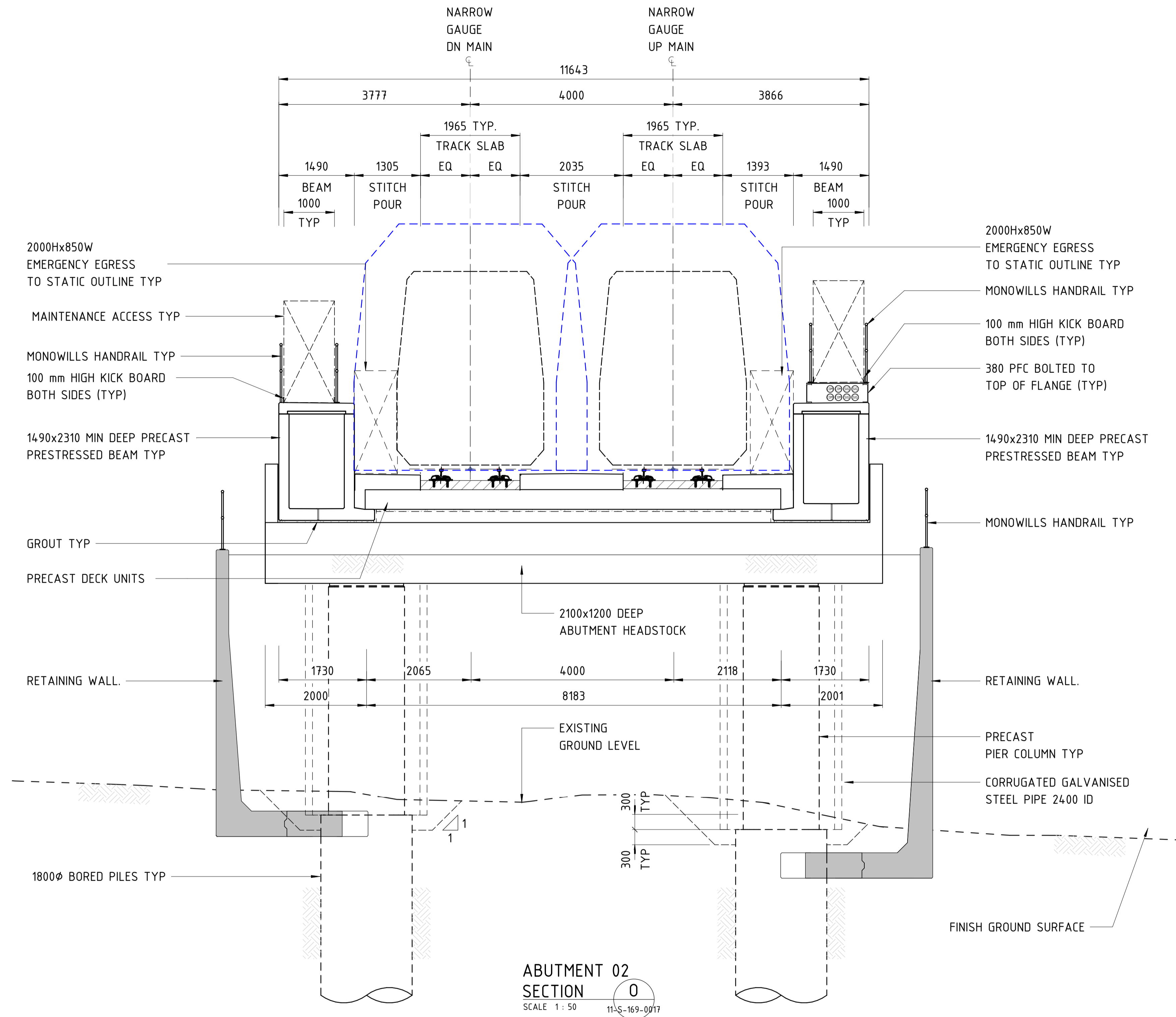
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		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
 Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
SECTIONS - SHEET 12

PTA Drawing No: **11-S-169-0029** Rev: **C.01**



ABUTMENT 02
SECTION 0
SCALE 1 : 50 11-S-169-0017

- NOTES:**
1. FOR GENERAL NOTES REFER TO 11-S-169-0004 & 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W.	T.N	D.S	

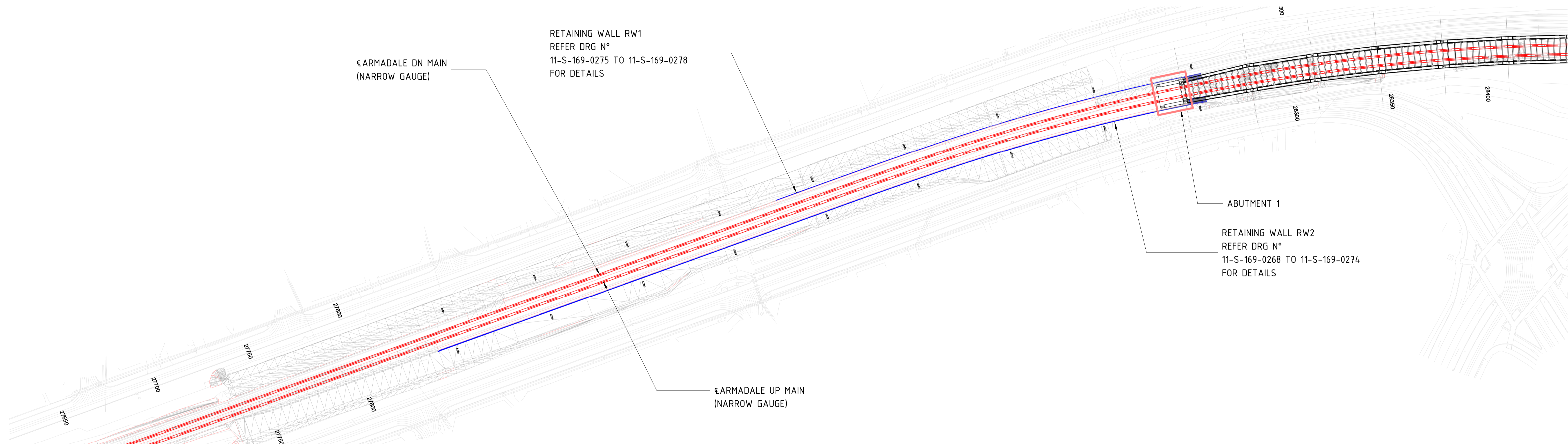
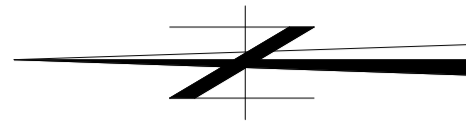
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REFERENCES	SCALE	DESIGNED
	1 : 50 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

	BYFORD RAIL EXTENSION
LINEWIDE VIADUCT	
STRUCTURAL	
SECTIONS - SHEET 13	
PTA Drawing No: 11-S-169-0030	Rev: C.01



€ ARMADALE DN MAIN
(NARROW GAUGE)

RETAINING WALL RW1
REFER DRG N°
11-S-169-0275 TO 11-S-169-0278
FOR DETAILS

€ ARMADALE UP MAIN
(NARROW GAUGE)

ABUTMENT 1

RETAINING WALL RW2
REFER DRG N°
11-S-169-0268 TO 11-S-169-0274
FOR DETAILS

RETAINING WALLS - KEY PLAN SHEET 1 OF 2

SCALE 1 : 1000

LEGEND

- RETAINING WALL
- - - - SITE BOUNDARY

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S.	

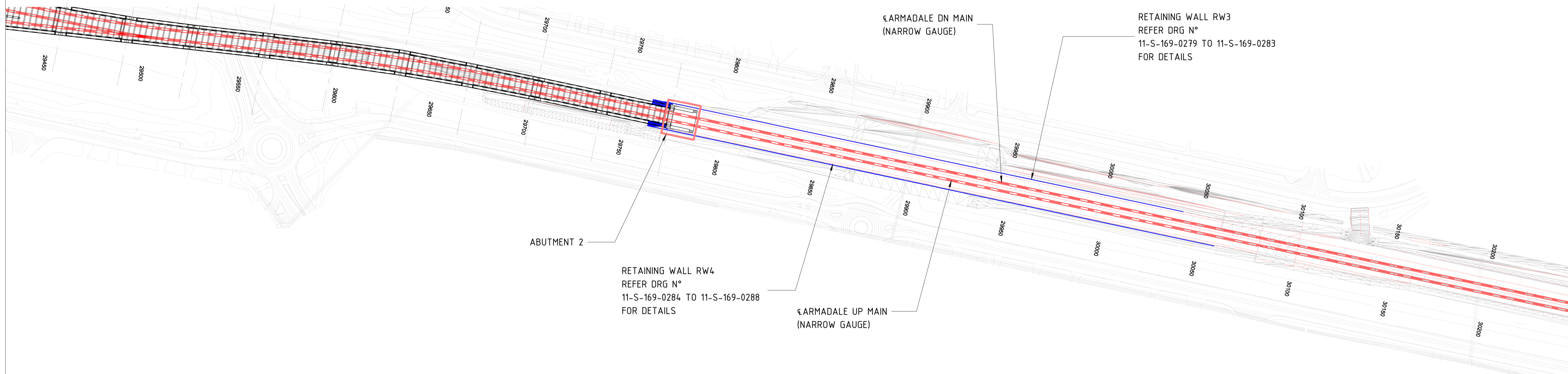
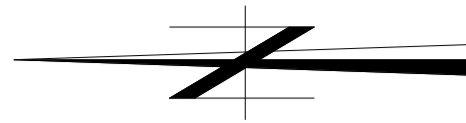


REFERENCES

SCALE	1 : 1000 (@ A1)
DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71
APPROVED	
DATE	

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS - KEY PLAN SHEET 1 OF 2
 PTA Drawing No: **11-S-169-0264** Rev: **C.01**



RETAINING WALLS - KEY PLAN SHEET 2 OF 2

SCALE 1 : 1000

LEGEND

- RETAINING WALL
- - - - SITE BOUNDARY

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W.	T.N.	D.S.	

ORIG SIZE
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300
400
500
1000mm

A1 AT ORIGINAL PLOT SIZE

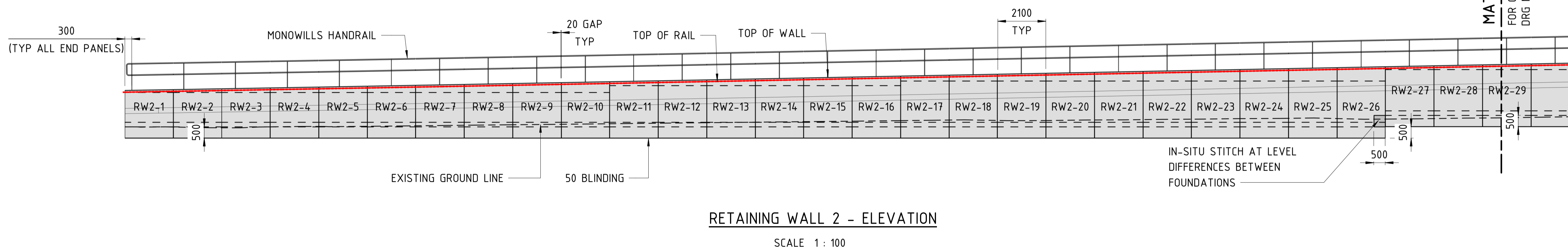
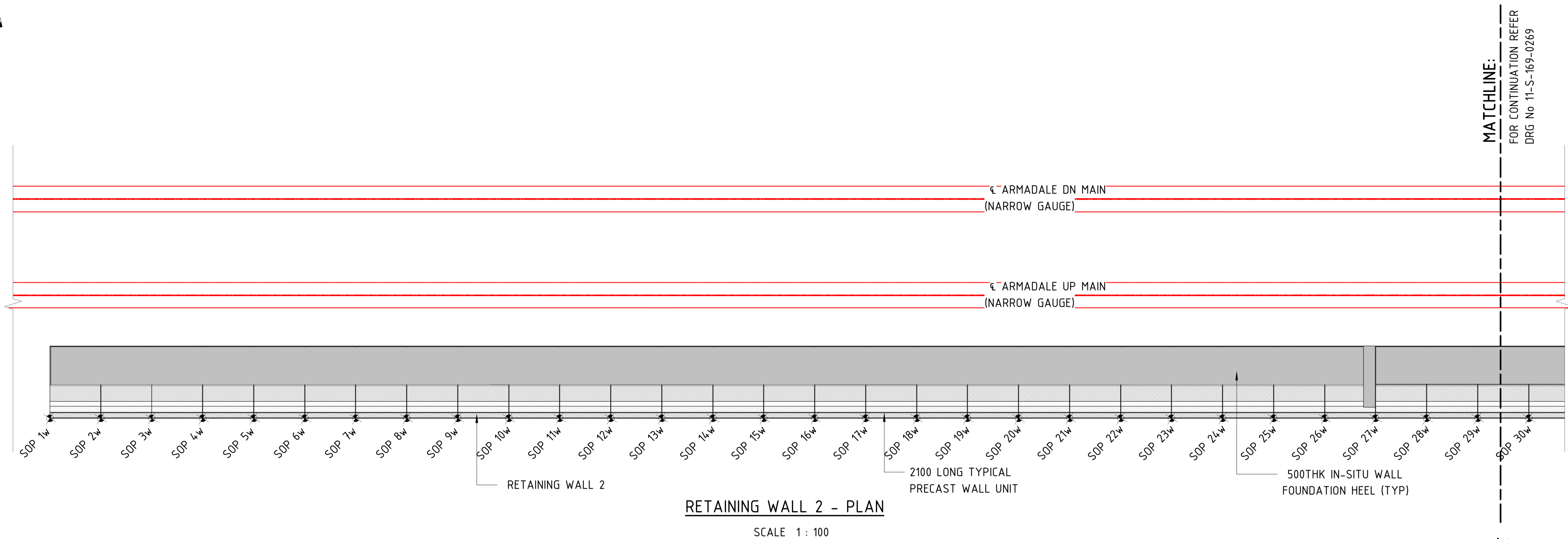
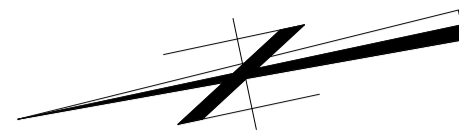
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REFERENCES

SCALE	DESIGNED
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DATUM	DRAWN
HORIZONTAL: PCG2020	T.NGAN
VERTICAL: AHD71	CHECKED
	T.FORD
	APPROVED
	DATE

BYFORD RAIL EXTENSION
LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS - KEY PLAN SHEET 2 OF 2
 PTA Drawing No: **11-S-169-0265** Rev: **C.01**



SOP NO.	TYPE	EASTING	NORTHING
SOP 1w	RW-2	68458.859	342350.500
SOP 2w	RW-2	68459.609	342348.527
SOP 3w	RW-2	68460.362	342346.545
SOP 4w	RW-2	68461.115	342344.564
SOP 5w	RW-2	68461.868	342342.580
SOP 6w	RW-2	68462.621	342340.600
SOP 7w	RW-2	68463.374	342338.618
SOP 8w	RW-2	68464.127	342336.636
SOP 9w	RW-2	68464.880	342334.655
SOP 10w	RW-2	68465.632	342332.673

SOP NO.	TYPE	EASTING	NORTHING
SOP 11w	RW-2	68466.385	342330.691
SOP 12w	RW-2	68467.138	342328.709
SOP 13w	RW-2	68467.891	342326.728
SOP 14w	RW-2	68468.644	342324.746
SOP 15w	RW-2	68469.398	342322.764
SOP 16w	RW-2	68470.151	342320.782
SOP 17w	RW-2	68470.904	342318.801
SOP 18w	RW-2	68471.657	342316.819
SOP 19w	RW-2	68472.410	342314.837
SOP 20w	RW-2	68473.163	342312.856

SOP NO.	TYPE	EASTING	NORTHING
SOP 21w	RW-2	68473.916	342310.874
SOP 22w	RW-2	68474.669	342308.892
SOP 23w	RW-2	68475.422	342306.910
SOP 24w	RW-2	68476.175	342304.929
SOP 25w	RW-2	68476.928	342302.947
SOP 26w	RW-2	68477.681	342300.965
SOP 27w	RW-2	68478.434	342298.983
SOP 28w	RW-2	68479.187	342297.002
SOP 29w	RW-2	68479.940	342295.020
SOP 30w	RW-2	68480.693	342293.038

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W.	T.N.	D.S.	

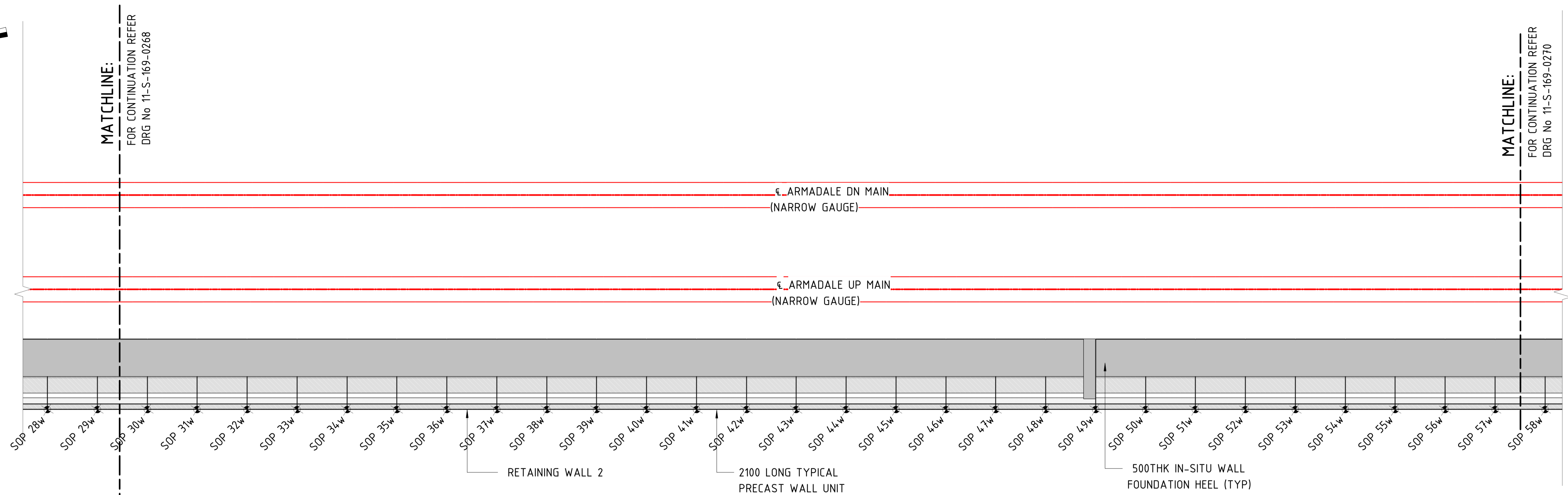
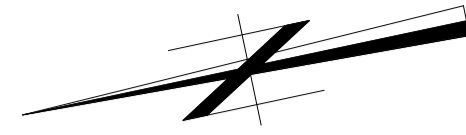
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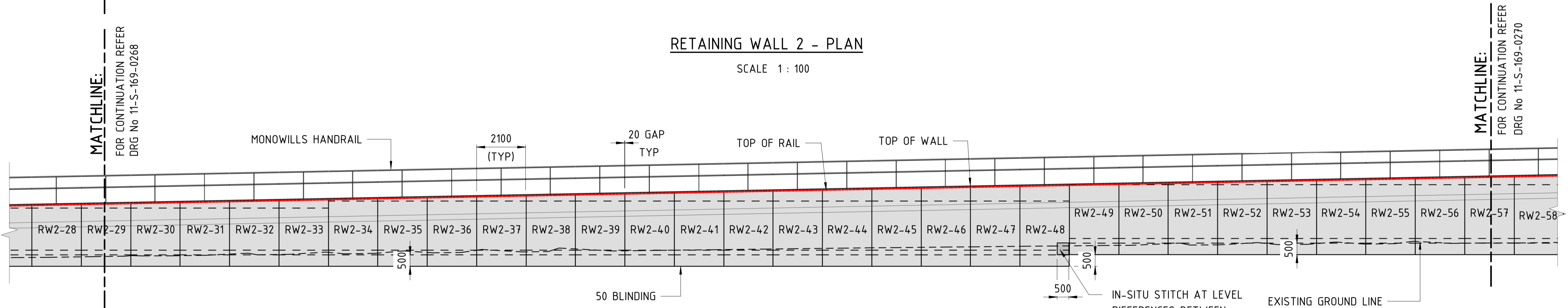
REFERENCES

WORK IN PROGRESS		ISSUED FOR DA	
SCALE 1 : 100 (@ A1)	DESIGNED L.SCHOOF	Government of Western Australia Public Transport Authority	
DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71	DRAWN T.NGAN	BYFORD RAIL EXTENSION	
	CHECKED T.FORD	LINEWIDE VIADUCT STRUCTURAL	
	APPROVED	RETAINING WALLS SET-OUT - SHEET 01	
	DATE	PTA Drawing No: 11-S-169-0268 Rev: C.01	



RETAINING WALL 2 - PLAN

SCALE 1 : 100



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 31w	RW-2	68481.400	342291.000
SOP 32w	RW-2	68482.199	342289.075
SOP 33w	RW-2	68482.953	342287.093
SOP 34w	RW-2	68483.706	342285.111
SOP 35w	RW-2	68484.459	342283.129
SOP 36w	RW-2	68485.212	342281.148
SOP 37w	RW-2	68485.965	342279.166
SOP 38w	RW-2	68486.718	342277.184
SOP 39w	RW-2	68487.471	342275.202
SOP 40w	RW-2	68488.224	342273.221
SOP 41w	RW-2	68488.977	342271.239
SOP 42w	RW-2	68489.730	342269.257
SOP 43w	RW-2	68490.483	342267.275
SOP 44w	RW-2	68491.236	342265.294

SOP NO.	TYPE	EASTING	NORTHING
SOP 45w	RW-2	68491.989	342263.312
SOP 46w	RW-2	68492.742	342261.330
SOP 47w	RW-2	68493.495	342259.348
SOP 48w	RW-2	68494.248	342257.367
SOP 49w	RW-2	68495.001	342255.385
SOP 50w	RW-2	68495.754	342253.403
SOP 51w	RW-2	68496.508	342251.421
SOP 52w	RW-2	68497.261	342249.440
SOP 53w	RW-2	68498.014	342247.458
SOP 54w	RW-2	68498.767	342245.476
SOP 55w	RW-2	68499.520	342243.495
SOP 56w	RW-2	68500.273	342241.513
SOP 57w	RW-2	68501.026	342239.531
SOP 58w	RW-2	68501.779	342237.549

NOTES:
 FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
 A1 AT ORIGINAL PLOT SIZE

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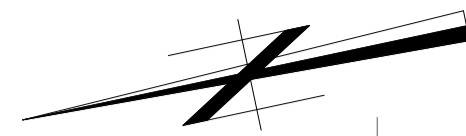


REFERENCES	SCALE	DESIGNED	DESIGNED
	1 : 100 (@ A1)	L.SCHOOF	L.SCHOOF
		DRAWN	T.NGAN
		CHECKED	T.FORD
		APPROVED	
		DATE	

DATUM
 HORIZONTAL: PCG2020
 VERTICAL: AHD71

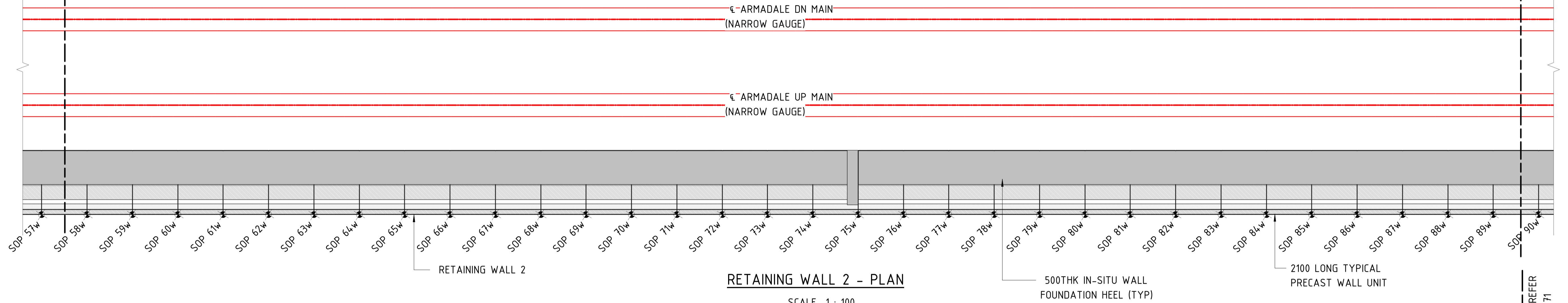
Government of Western Australia
 Public Transport Authority

BYFORD RAIL EXTENSION
 LINESIDE VIADUCT
 STRUCTURAL
 RETAINING WALLS SET-OUT - SHEET 02
 PTA Drawing No: 11-S-169-0269 Rev: C.01



MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0269

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0271

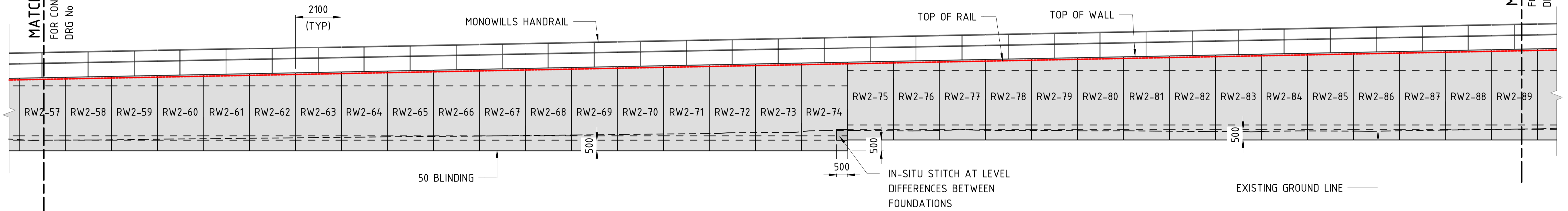


RETAINING WALL 2 - PLAN

SCALE 1 : 100

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0269

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0271



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 59w	RW-2	68502.532	342235.568
SOP 60w	RW-2	68503.285	342233.586
SOP 61w	RW-2	68504.038	342231.604
SOP 62w	RW-2	68504.791	342229.622
SOP 63w	RW-2	68505.544	342227.641
SOP 64w	RW-2	68506.297	342225.659
SOP 65w	RW-2	68507.050	342223.677
SOP 66w	RW-2	68507.803	342221.695
SOP 67w	RW-2	68508.556	342219.714
SOP 68w	RW-2	68509.309	342217.732
SOP 69w	RW-2	68510.063	342215.750

SOP NO.	TYPE	EASTING	NORTHING
SOP 70w	RW-2	68510.816	342213.768
SOP 71w	RW-2	68511.569	342211.787
SOP 72w	RW-2	68512.322	342209.805
SOP 73w	RW-2	68513.075	342207.823
SOP 74w	RW-2	68513.828	342205.841
SOP 75w	RW-2	68514.581	342203.860
SOP 76w	RW-2	68515.334	342201.878
SOP 77w	RW-2	68516.087	342199.896
SOP 78w	RW-2	68516.840	342197.914
SOP 79w	RW-2	68517.593	342195.933
SOP 80w	RW-2	68518.346	342193.951

SOP NO.	TYPE	EASTING	NORTHING
SOP 81w	RW-2	68519.099	342191.969
SOP 82w	RW-2	68519.852	342189.987
SOP 83w	RW-2	68520.605	342188.006
SOP 84w	RW-2	68521.358	342186.024
SOP 85w	RW-2	68522.111	342184.042
SOP 86w	RW-2	68522.865	342182.060
SOP 87w	RW-2	68523.618	342180.079
SOP 88w	RW-2	68524.371	342178.097
SOP 89w	RW-2	68525.124	342176.115

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS


ISSUED FOR DA

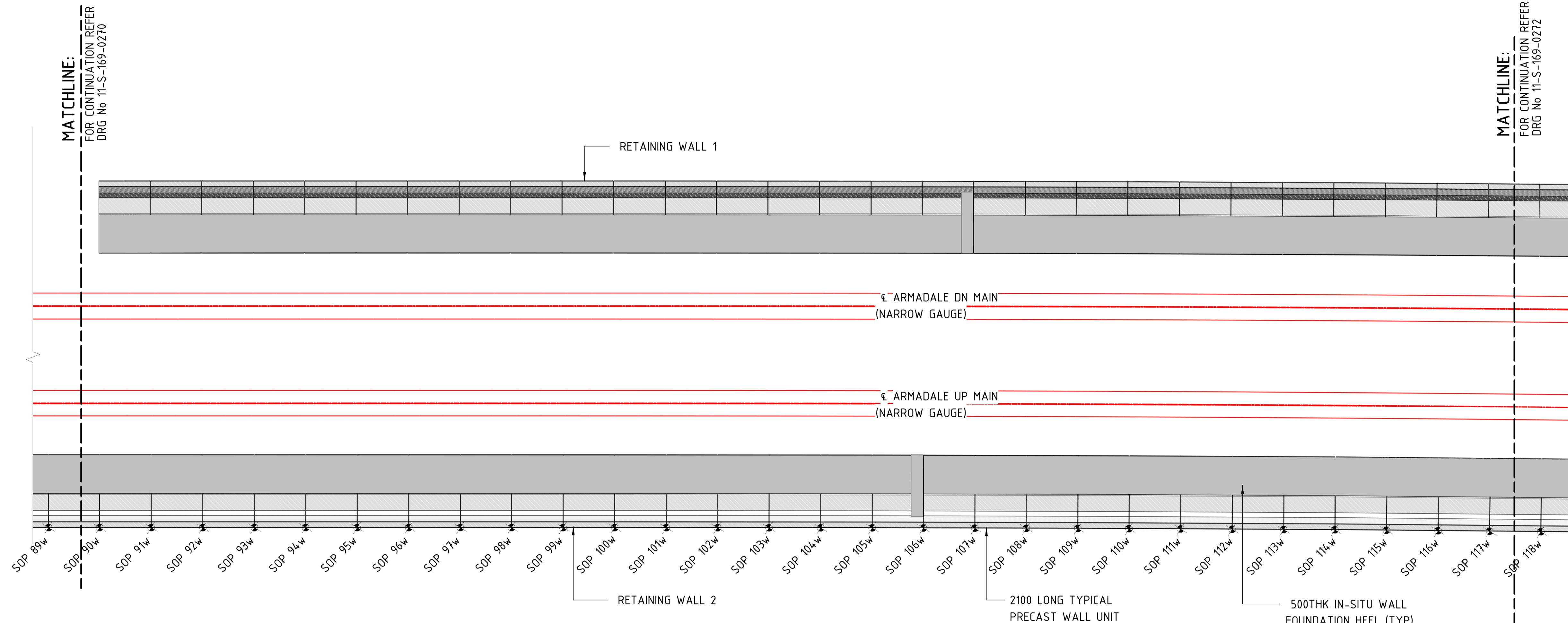
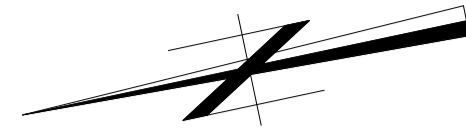
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B.01	03-02-23	ISSUED FOR IDOR - IDC				
A	29-07-22	ISSUED FOR RD				



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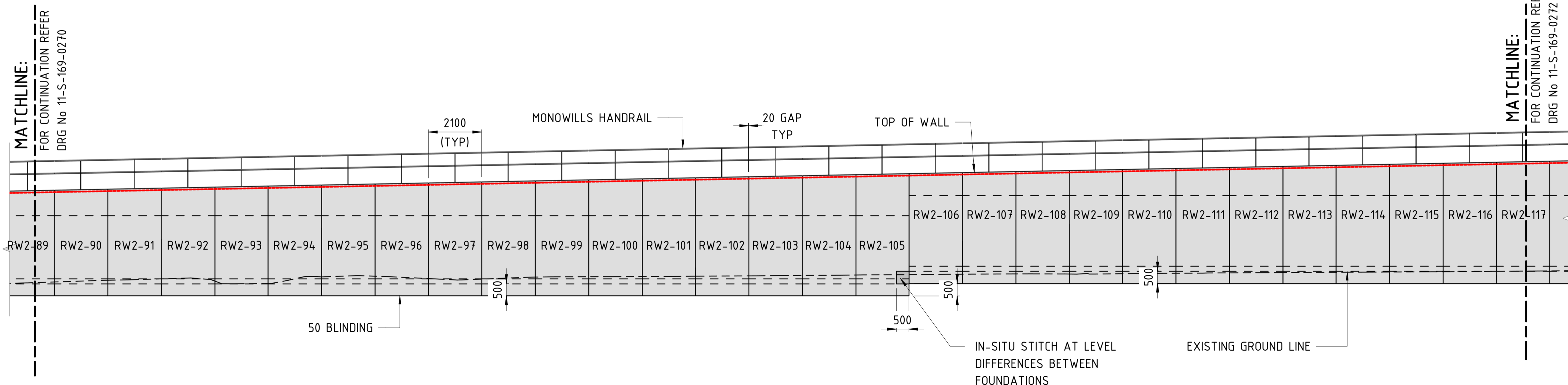
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71


BYFORD RAIL EXTENSION
LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 03
 PTA Drawing No: **11-S-169-0270** Rev: **C.01**



RETAINING WALL 2 - PLAN

SCALE 1 : 100



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 90w	RW-2	68525.877	342174.133
SOP 91w	RW-2	68526.630	342172.152
SOP 92w	RW-2	68527.383	342170.170
SOP 93w	RW-2	68528.136	342168.188
SOP 94w	RW-2	68528.889	342166.207
SOP 95w	RW-2	68529.642	342164.225
SOP 96w	RW-2	68530.395	342162.243
SOP 97w	RW-2	68531.148	342160.261
SOP 98w	RW-2	68531.901	342158.279
SOP 99w	RW-2	68532.654	342156.298
SOP 100w	RW-2	68533.406	342154.316
SOP 101w	RW-2	68534.158	342152.333
SOP 102w	RW-2	68534.909	342150.351
SOP 103w	RW-2	68535.660	342148.368
SOP 104w	RW-2	68536.411	342146.386
SOP 105w	RW-2	68537.162	342144.403
SOP 106w	RW-2	68537.909	342142.419
SOP 107w	RW-2	68538.656	342140.435
SOP 108w	RW-2	68539.404	342138.451
SOP 109w	RW-2	68540.151	342136.468
SOP 110w	RW-2	68540.897	342134.483
SOP 111w	RW-2	68541.638	342132.497
SOP 112w	RW-2	68542.380	342130.511
SOP 113w	RW-2	68543.122	342128.525
SOP 114w	RW-2	68543.867	342126.540
SOP 115w	RW-2	68544.601	342124.551
SOP 116w	RW-2	68545.335	342122.563
SOP 117w	RW-2	68546.069	342120.574
SOP 118w	RW-2	68546.804	342118.585

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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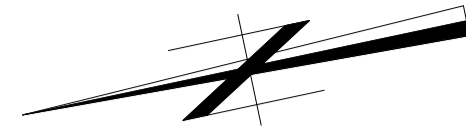


Contractor No: R30-DEA-DWG-ST-170-01414 Rev: C.01

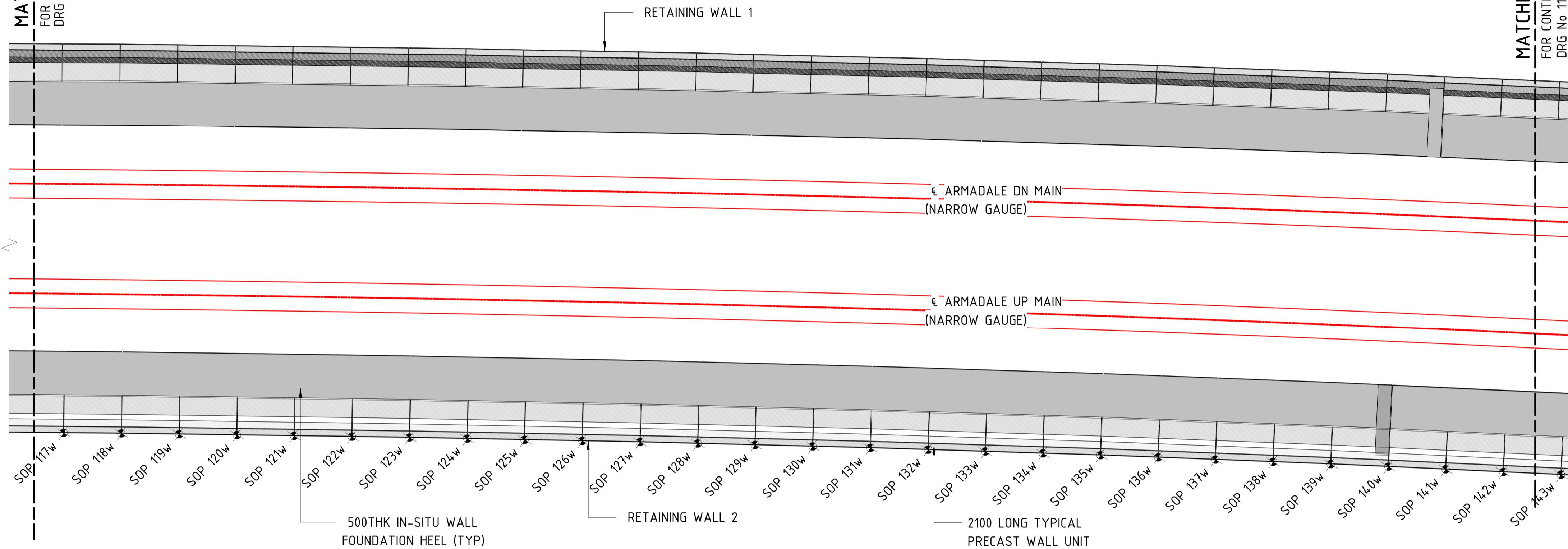
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DATUM	DRAWN T.NGAN
HORIZONTAL: PCG2020	CHECKED T.FORD
VERTICAL: AHD71	APPROVED
	DATE

ISSUED FOR DA	
BYFORD RAIL EXTENSION	
LINEWIDE VIADUCT	
STRUCTURAL	
RETAINING WALLS SET-OUT - SHEET 04	
PTA Drawing No: 11-S-169-0271	Rev: C.01



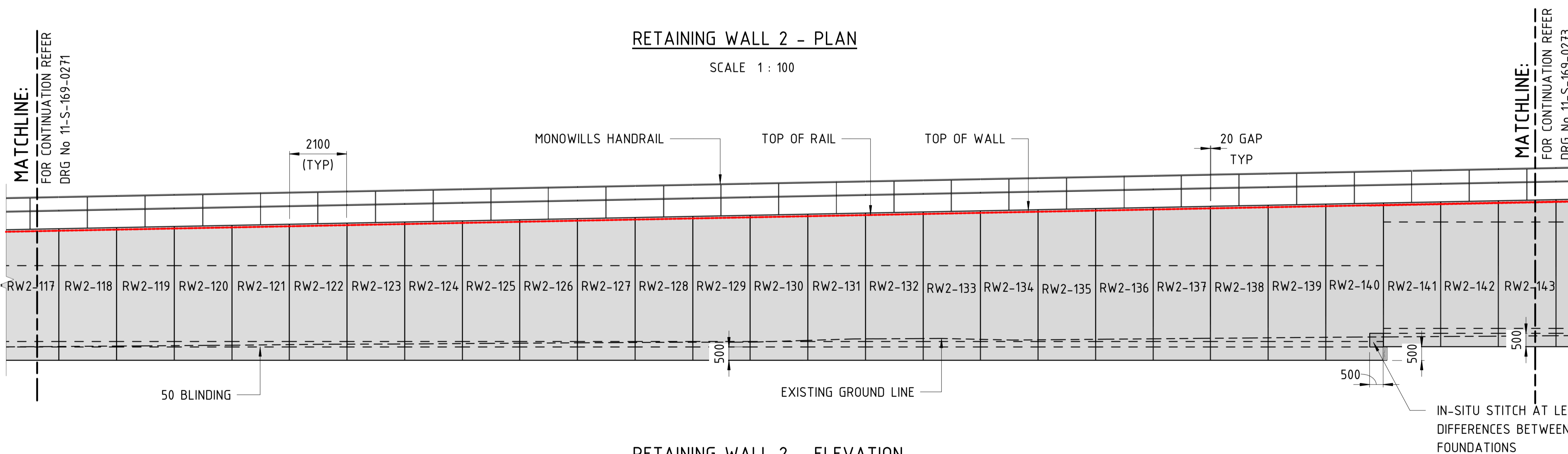
MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0271



SOP NO.	TYPE	EASTING	NORTHING
SOP 119w	RW-2	68547.538	342116.596
SOP 120w	RW-2	68548.264	342114.604
SOP 121w	RW-2	68548.989	342112.612
SOP 122w	RW-2	68549.714	342110.620
SOP 123w	RW-2	68550.439	342108.628
SOP 124w	RW-2	68551.161	342106.635
SOP 125w	RW-2	68551.876	342104.639
SOP 126w	RW-2	68552.590	342102.643
SOP 127w	RW-2	68553.304	342100.647
SOP 128w	RW-2	68554.018	342098.650
SOP 129w	RW-2	68554.721	342096.650
SOP 130w	RW-2	68555.424	342094.650
SOP 131w	RW-2	68556.127	342092.650
SOP 132w	RW-2	68556.830	342090.650
SOP 133w	RW-2	68557.520	342088.646
SOP 134w	RW-2	68558.210	342086.641
SOP 135w	RW-2	68558.900	342084.637
SOP 136w	RW-2	68559.590	342082.632
SOP 137w	RW-2	68560.269	342080.623
SOP 138w	RW-2	68560.944	342078.614
SOP 139w	RW-2	68561.620	342076.605
SOP 140w	RW-2	68562.296	342074.595
SOP 141w	RW-2	68562.960	342072.582
SOP 142w	RW-2	68563.620	342070.567
SOP 143w	RW-2	68564.280	342068.553

RETAINING WALL 2 - PLAN

SCALE 1 : 100



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0273

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	DS	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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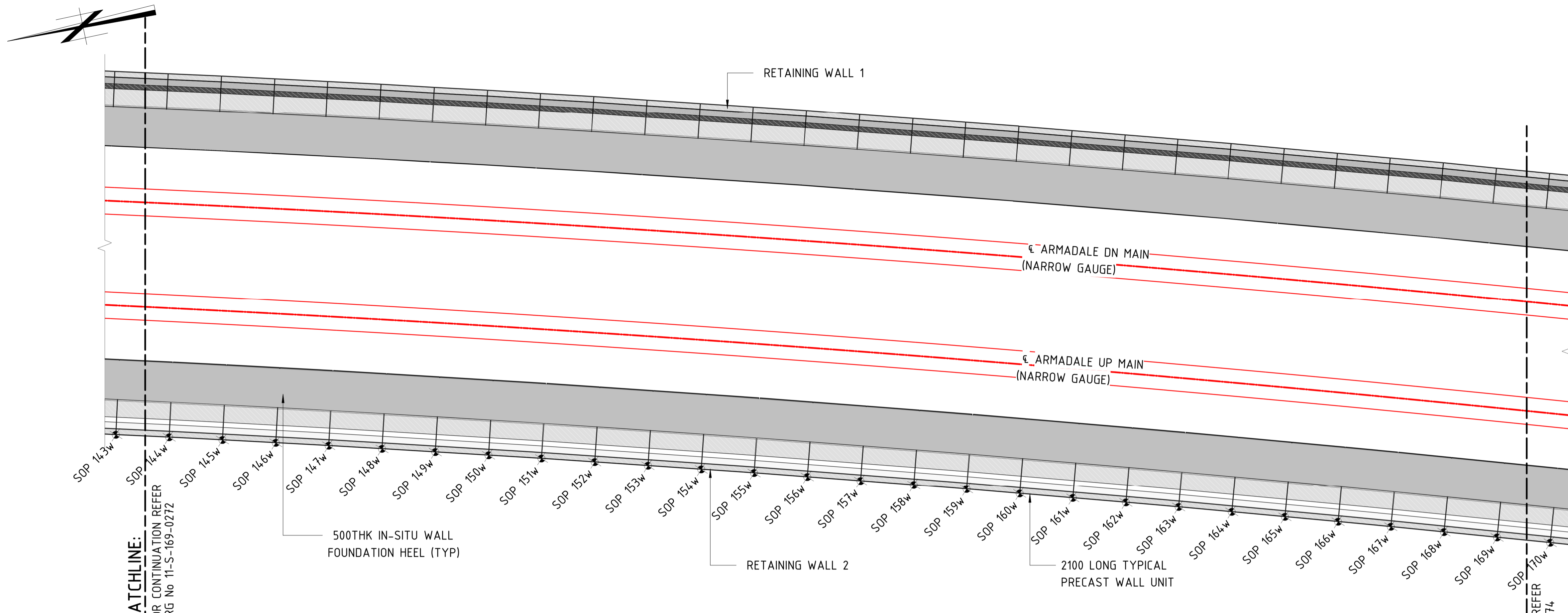
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

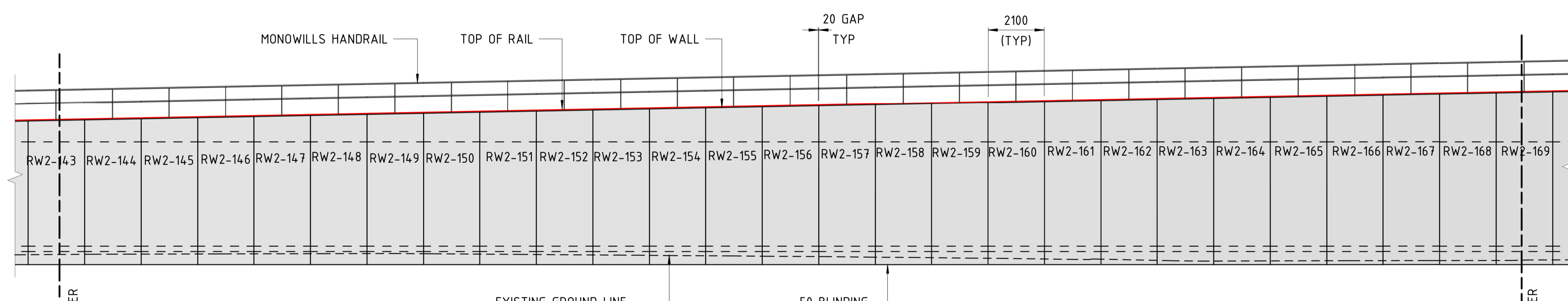
LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 05

PTA Drawing No: 11-S-169-0272 Rev: C.01



RETAINING WALL 2 - PLAN

SCALE 1 : 100



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 144w	RW-2	68564.940	342066.538
SOP 145w	RW-2	68565.591	342064.520
SOP 146w	RW-2	68566.237	342062.501
SOP 147w	RW-2	68566.883	342060.482
SOP 148w	RW-2	68567.518	342058.459
SOP 149w	RW-2	68568.150	342056.436
SOP 150w	RW-2	68568.782	342054.412
SOP 151w	RW-2	68569.414	342052.389
SOP 152w	RW-2	68570.032	342050.361
SOP 153w	RW-2	68570.648	342048.332
SOP 154w	RW-2	68571.264	342046.304
SOP 155w	RW-2	68571.881	342044.275
SOP 156w	RW-2	68572.481	342042.242
SOP 157w	RW-2	68573.081	342040.209
SOP 158w	RW-2	68573.681	342038.175
SOP 159w	RW-2	68574.279	342036.142
SOP 160w	RW-2	68574.863	342034.104
SOP 161w	RW-2	68575.447	342032.066
SOP 162w	RW-2	68576.031	342030.028
SOP 163w	RW-2	68576.612	342027.989
SOP 164w	RW-2	68577.180	342025.946
SOP 165w	RW-2	68577.746	342023.904
SOP 166w	RW-2	68578.314	342021.861
SOP 167w	RW-2	68578.877	342019.817
SOP 168w	RW-2	68579.429	342017.770
SOP 169w	RW-2	68579.980	342015.723

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0274

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0274

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01416 | Rev: C.01



REFERENCES	SCALE	DESIGNED
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		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

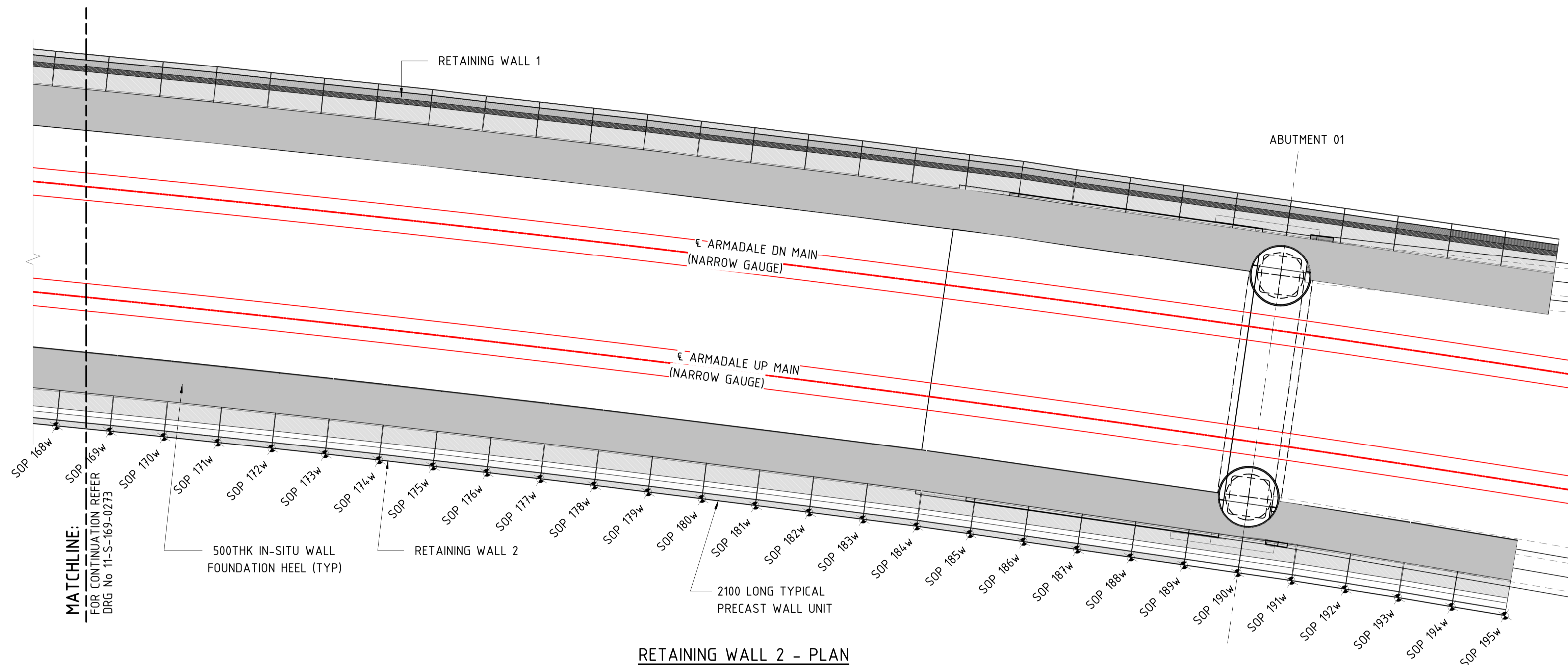
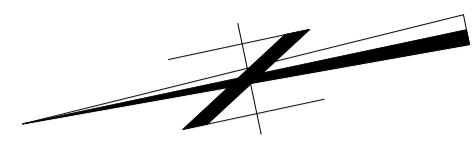
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

RETAINING WALLS SET-OUT - SHEET 06

PTA Drawing No: 11-S-169-0273 Rev: C.01

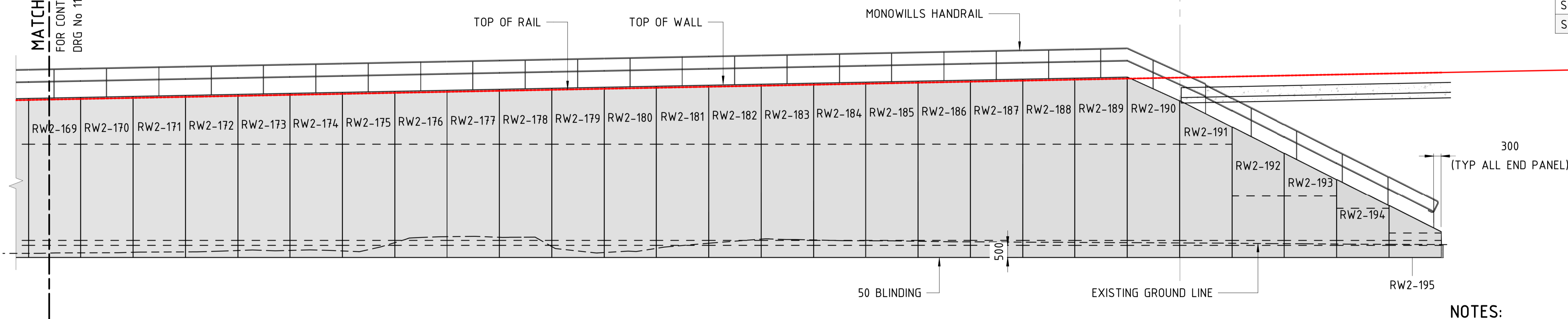


RETAINING WALL 2 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 170w	RW-2	68580.532	342013.677
SOP 171w	RW-2	68581.077	342011.628
SOP 172w	RW-2	68581.612	342009.576
SOP 173w	RW-2	68582.148	342007.525
SOP 174w	RW-2	68582.683	342005.474
SOP 175w	RW-2	68583.211	342003.420
SOP 176w	RW-2	68583.730	342001.365
SOP 177w	RW-2	68584.249	341999.309
SOP 178w	RW-2	68584.768	341997.254
SOP 179w	RW-2	68585.277	341995.196
SOP 180w	RW-2	68585.780	341993.136
SOP 181w	RW-2	68586.283	341991.077
SOP 182w	RW-2	68586.786	341989.017
SOP 183w	RW-2	68587.282	341986.956
SOP 184w	RW-2	68587.775	341984.894
SOP 185w	RW-2	68588.269	341982.833
SOP 186w	RW-2	68588.737	341980.765
SOP 187w	RW-2	68589.198	341978.696
SOP 188w	RW-2	68589.659	341976.626
SOP 189w	RW-2	68590.119	341974.557
SOP 190w	RW-2	68590.580	341972.488
SOP 191w	RW-2	68591.041	341970.418
SOP 192w	RW-2	68591.503	341968.349
SOP 193w	RW-2	68591.937	341966.274
SOP 194w	RW-2	68592.371	341964.199
SOP 195w	RW-2	68592.781	341962.119

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0273



RETAINING WALL 2 - ELEVATION

SCALE 1 : 100

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01000_Fai.vathien.rvt



REFERENCES

SCALE

1 : 100 (@ A1)

DATUM

HORIZONTAL: PCG2020

VERTICAL: AHD71

DESIGNED L.SCHOOF

DRAWN T.NGAN

CHECKED T.FORD

APPROVED

DATE



BYFORD RAIL EXTENSION

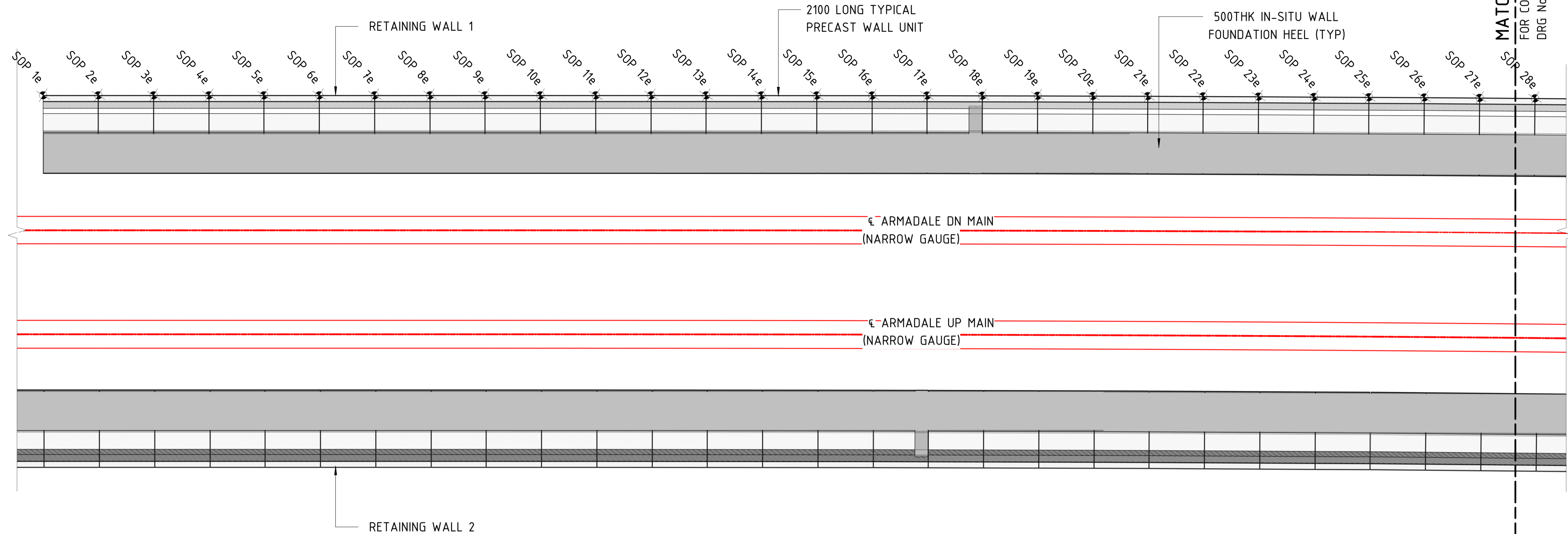
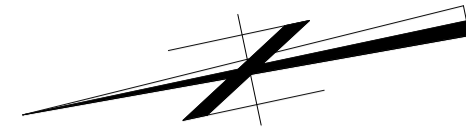
LINEWIDE VIADUCT

STRUCTURAL

RETAINING WALLS SET-OUT - SHEET 07

PTA Drawing No: 11-S-169-0274

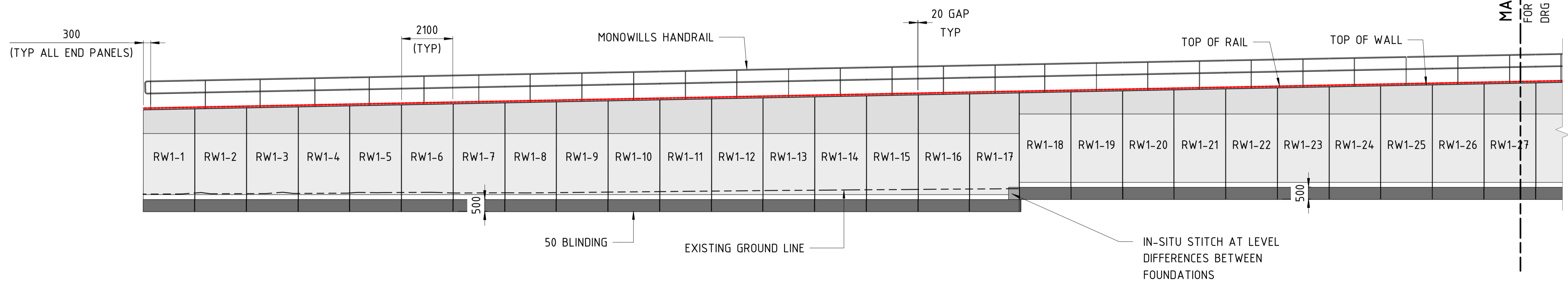
Rev: C.01



RETAINING WALL 1 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 1e	RW-1	68539.224	342179.242
SOP 2e	RW-1	68539.974	342177.270
SOP 3e	RW-1	68540.727	342175.288
SOP 4e	RW-1	68541.480	342173.306
SOP 5e	RW-1	68542.233	342171.325
SOP 6e	RW-1	68542.986	342169.343
SOP 7e	RW-1	68543.739	342167.361
SOP 8e	RW-1	68544.492	342165.379
SOP 9e	RW-1	68545.245	342163.398
SOP 10e	RW-1	68545.998	342161.416
SOP 11e	RW-1	68546.751	342159.434
SOP 12e	RW-1	68547.504	342157.452
SOP 13e	RW-1	68548.256	342155.470
SOP 14e	RW-1	68549.008	342153.488
SOP 15e	RW-1	68549.759	342151.506
SOP 16e	RW-1	68550.511	342149.523
SOP 17e	RW-1	68551.262	342147.541
SOP 18e	RW-1	68552.011	342145.558
SOP 19e	RW-1	68552.760	342143.574
SOP 20e	RW-1	68553.506	342141.589
SOP 21e	RW-1	68554.254	342139.607
SOP 22e	RW-1	68554.998	342137.622
SOP 23e	RW-1	68555.742	342135.636
SOP 24e	RW-1	68556.482	342133.648
SOP 25e	RW-1	68557.226	342131.663
SOP 26e	RW-1	68557.970	342129.678
SOP 27e	RW-1	68558.708	342127.691



RETAINING WALL 1 - ELEVATION

SCALE 1 : 100

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
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ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

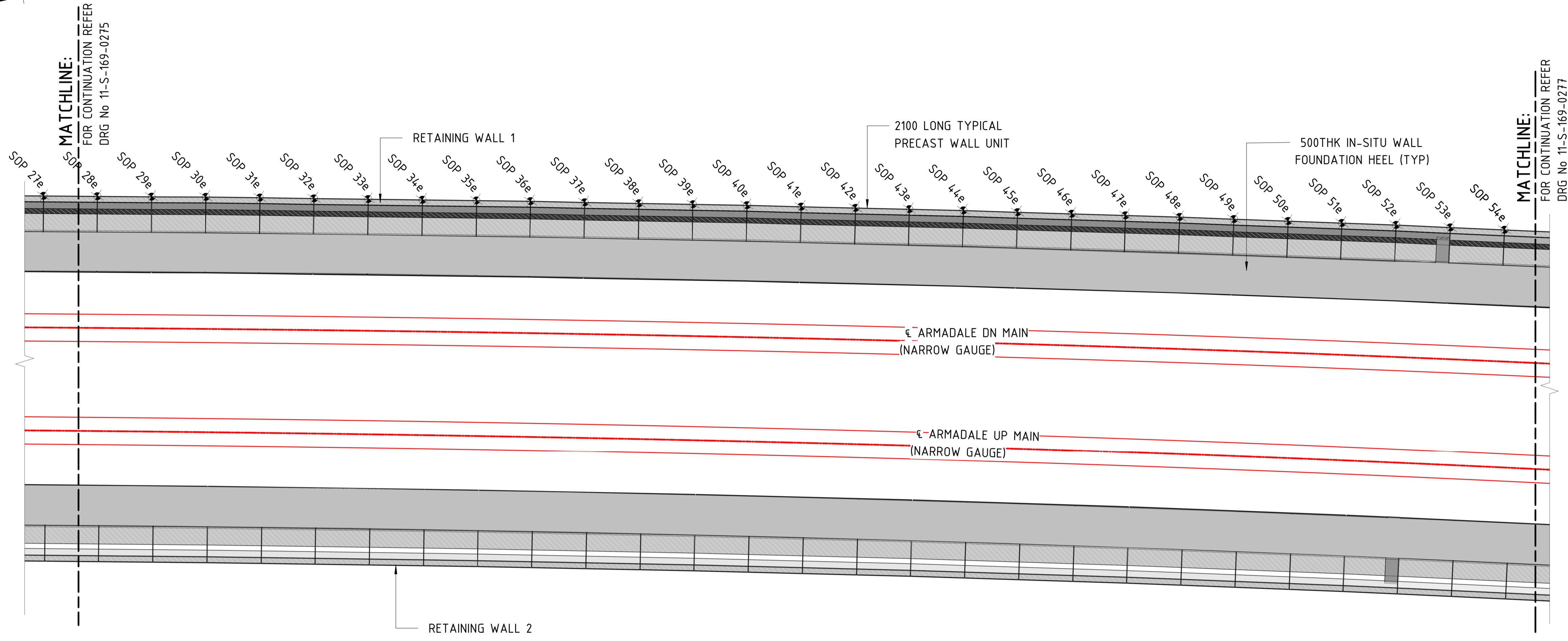
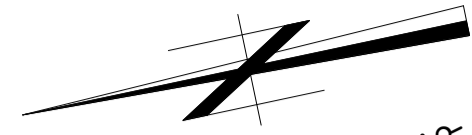
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Contractor No: R30-DEA-DWG-ST-170-01418 | Rev: C.01

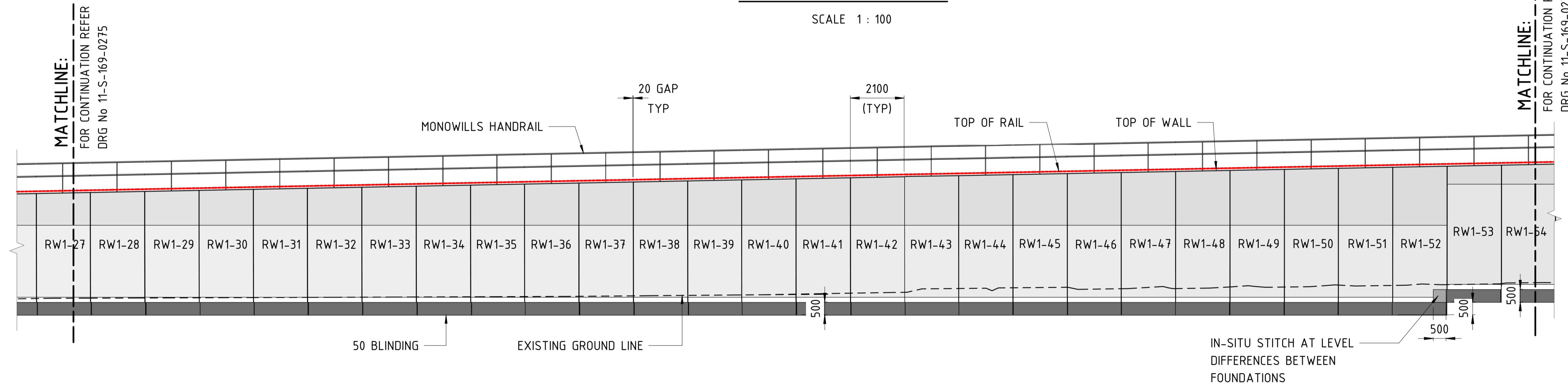
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DATUM HORIZONTAL: PCG2020 VERTICAL: AHD71	DRAWN T.NGAN	LINEWIDE VIADUCT STRUCTURAL	
	CHECKED T.FORD	RETAINING WALLS SET-OUT - SHEET 08	
	APPROVED	PTA Drawing No: 11-S-169-0275	
	DATE	Rev: C.01	



RETAINING WALL 1 - PLAN

SCALE 1 : 100



RETAINING WALL 1 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 28e	RW-1	68559.445	342125.703
SOP 29e	RW-1	68560.182	342123.715
SOP 30e	RW-1	68560.928	342121.732
SOP 31e	RW-1	68561.657	342119.742
SOP 32e	RW-1	68562.378	342117.746
SOP 33e	RW-1	68563.108	342115.755
SOP 34e	RW-1	68563.835	342113.764
SOP 35e	RW-1	68564.563	342111.774
SOP 36e	RW-1	68565.291	342109.782
SOP 37e	RW-1	68566.000	342107.785
SOP 38e	RW-1	68566.718	342105.790
SOP 39e	RW-1	68567.436	342103.796
SOP 40e	RW-1	68568.155	342101.801
SOP 41e	RW-1	68568.853	342099.800
SOP 42e	RW-1	68569.561	342097.801
SOP 43e	RW-1	68570.268	342095.802
SOP 44e	RW-1	68570.975	342093.805
SOP 45e	RW-1	68571.662	342091.799
SOP 46e	RW-1	68572.358	342089.795
SOP 47e	RW-1	68573.053	342087.793
SOP 48e	RW-1	68573.747	342085.789
SOP 49e	RW-1	68574.423	342083.779
SOP 50e	RW-1	68575.104	342081.771
SOP 51e	RW-1	68575.785	342079.765
SOP 52e	RW-1	68576.466	342077.757
SOP 53e	RW-1	68577.127	342075.742
SOP 54e	RW-1	68577.792	342073.730

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS | **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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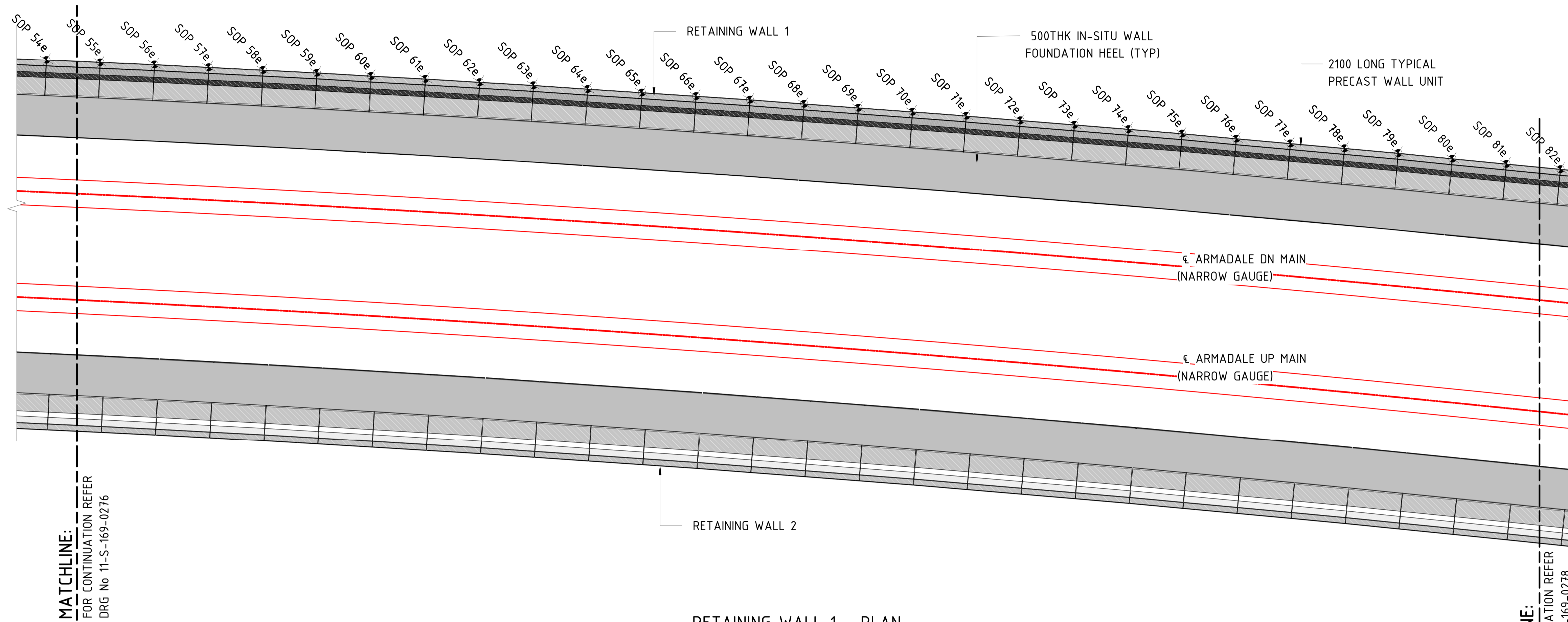
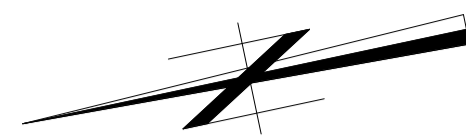
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	1 : 100 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 09

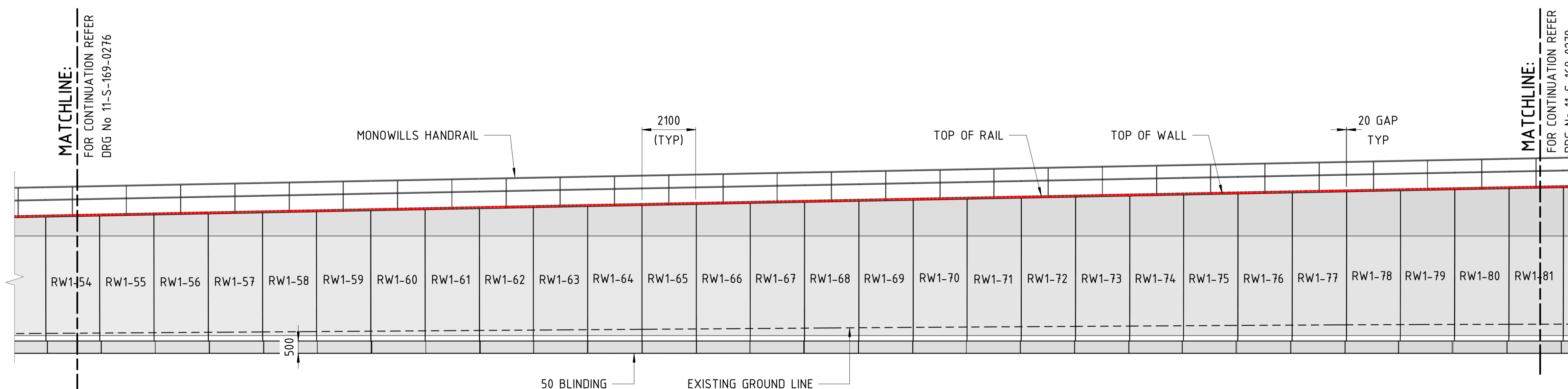
PTA Drawing No: 11-S-169-0276 Rev: C.01



RETAINING WALL 1 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 55e	RW-1	68578.458	342071.718
SOP 56e	RW-1	68579.124	342069.705
SOP 57e	RW-1	68579.774	342067.686
SOP 58e	RW-1	68580.426	342065.669
SOP 59e	RW-1	68581.078	342063.651
SOP 60e	RW-1	68581.712	342061.629
SOP 61e	RW-1	68582.357	342059.611
SOP 62e	RW-1	68582.988	342057.585
SOP 63e	RW-1	68583.626	342055.564
SOP 64e	RW-1	68584.243	342053.536
SOP 65e	RW-1	68584.865	342051.510
SOP 66e	RW-1	68585.487	342049.483
SOP 67e	RW-1	68586.108	342047.455
SOP 68e	RW-1	68586.708	342045.422
SOP 69e	RW-1	68587.315	342043.390
SOP 70e	RW-1	68587.920	342041.360
SOP 71e	RW-1	68588.526	342039.327
SOP 72e	RW-1	68589.108	342037.289
SOP 73e	RW-1	68589.699	342035.253
SOP 74e	RW-1	68590.288	342033.217
SOP 75e	RW-1	68590.877	342031.181
SOP 76e	RW-1	68591.443	342029.136
SOP 77e	RW-1	68592.017	342027.096
SOP 78e	RW-1	68592.591	342025.055
SOP 79e	RW-1	68593.165	342023.014
SOP 80e	RW-1	68593.712	342020.967
SOP 81e	RW-1	68594.269	342018.922
SOP 82e	RW-1	68594.827	342016.876



RETAINING WALL 1 - ELEVATION

SCALE 1 : 100

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

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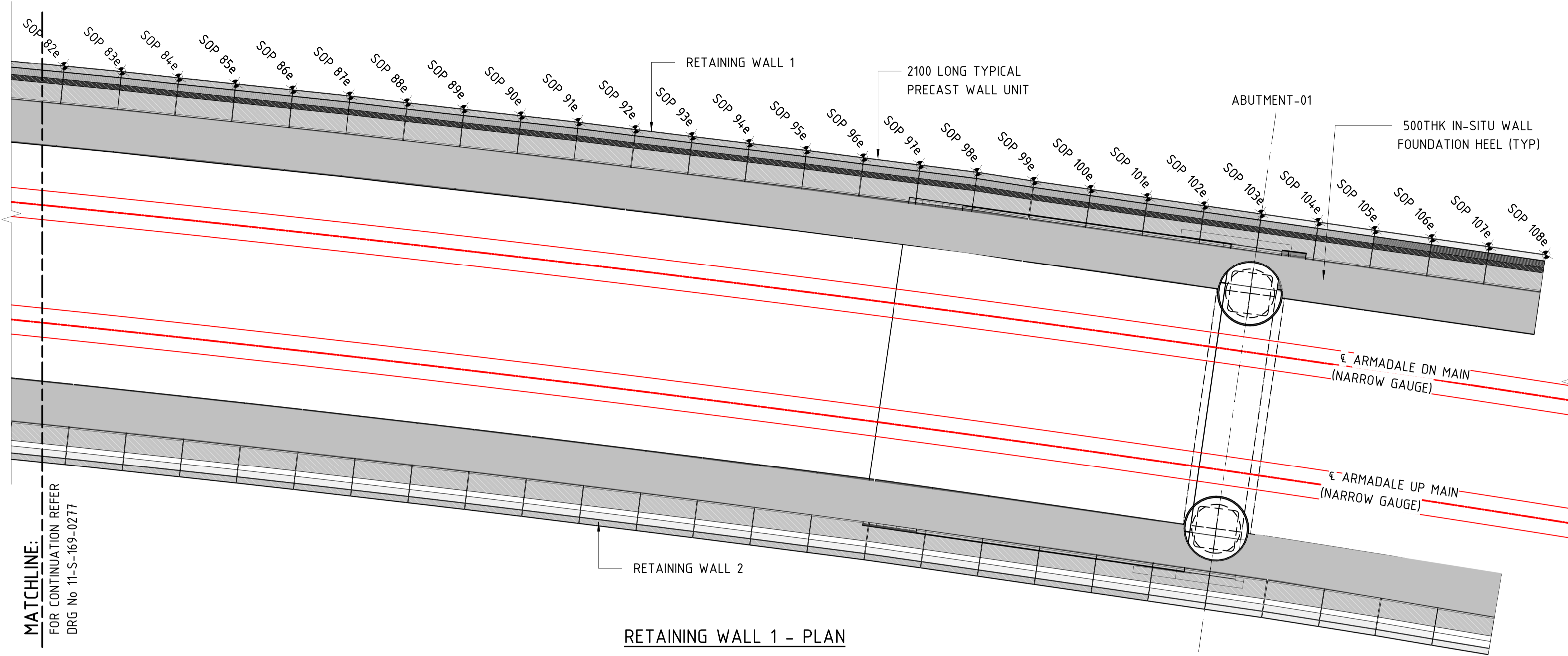
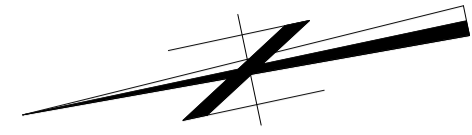
A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01420 Rev: C.01



REFERENCES	SCALE	DESIGNED	 BYFORD RAIL EXTENSION LINEWIDE VIADUCT STRUCTURAL RETAINING WALLS SET-OUT - SHEET 10 PTA Drawing No: 11-S-169-0277 Rev: C.01
	1 : 100 (@ A1)	L.SCHOOF	
		DRAWN T.NGAN	
		CHECKED T.FORD	
	DATUM	APPROVED	
	HORIZONTAL: PCG2020	DATE	
	VERTICAL: AHD71		



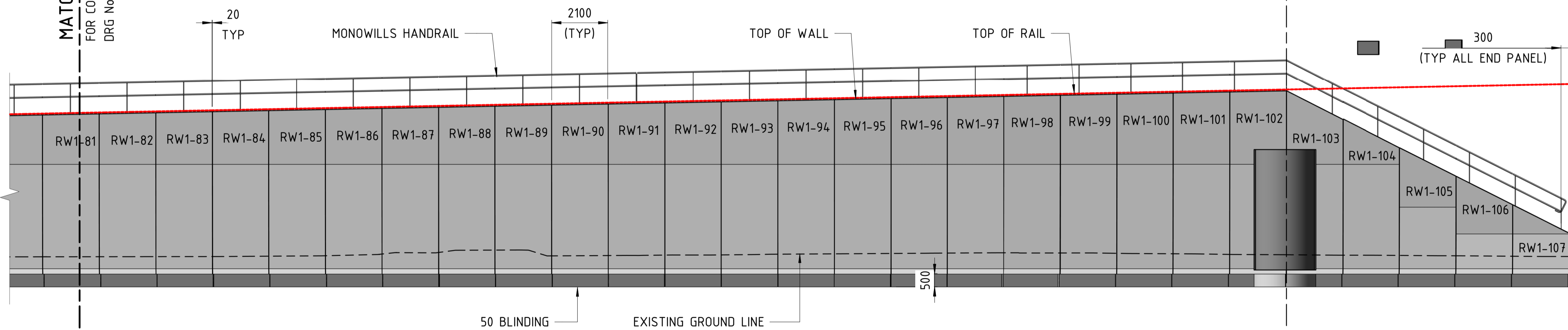
RETAINING WALL 1 - PLAN

SCALE 1 : 100

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0277

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0277

SOP NO.	TYPE	EASTING	NORTHING
SOP 83e	RW-1	68595.384	342014.829
SOP 84e	RW-1	68595.915	342012.778
SOP 85e	RW-1	68596.457	342010.728
SOP 86e	RW-1	68596.998	342008.678
SOP 87e	RW-1	68597.539	342006.629
SOP 88e	RW-1	68598.052	342004.572
SOP 89e	RW-1	68598.577	342002.518
SOP 90e	RW-1	68599.103	342000.463
SOP 91e	RW-1	68599.627	341998.409
SOP 92e	RW-1	68600.124	341996.347
SOP 93e	RW-1	68600.633	341994.289
SOP 94e	RW-1	68601.141	341992.232
SOP 95e	RW-1	68601.650	341990.175
SOP 96e	RW-1	68602.140	341988.112
SOP 97e	RW-1	68602.639	341986.052
SOP 98e	RW-1	68603.138	341983.992
SOP 99e	RW-1	68603.576	341981.915
SOP 100e	RW-1	68604.039	341979.848
SOP 101e	RW-1	68604.503	341977.779
SOP 102e	RW-1	68604.966	341975.710
SOP 103e	RW-1	68605.429	341973.641
SOP 104e	RW-1	68605.893	341971.572
SOP 105e	RW-1	68606.356	341969.503
SOP 106e	RW-1	68606.819	341967.435
SOP 107e	RW-1	68607.283	341965.366
SOP 108e	RW-1	68607.746	341963.297



RETAINING WALL 1 - ELEVATION

SCALE 1 : 100

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

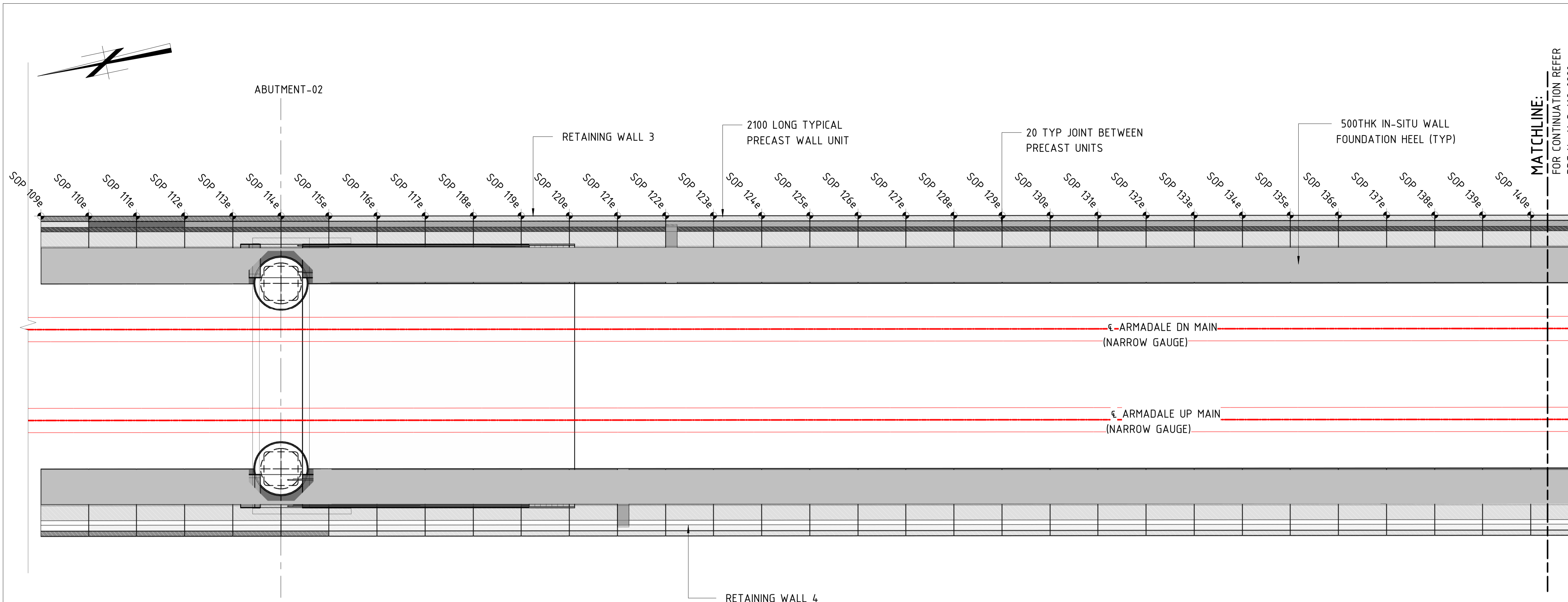
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A1 AT ORIGINAL PLOT SIZE

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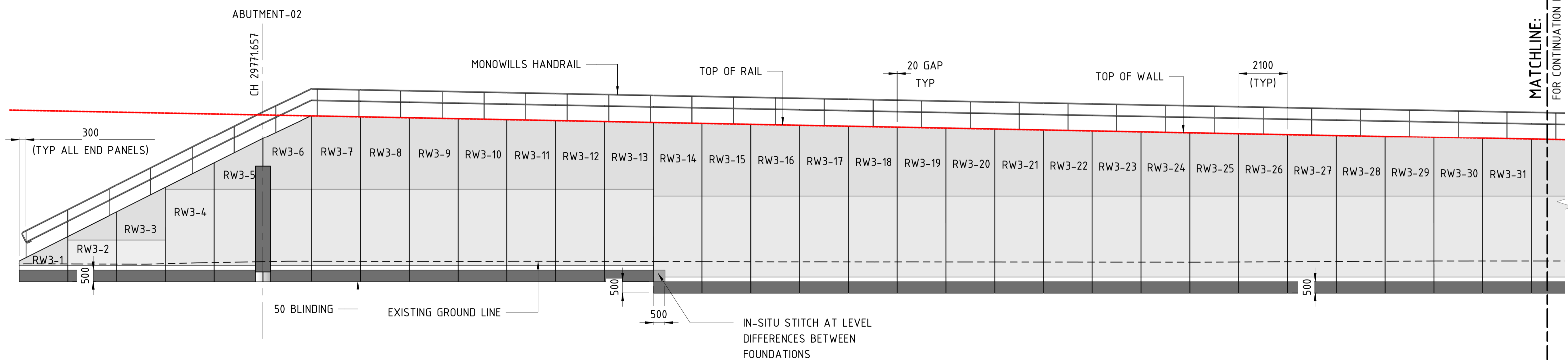
REFERENCES	SCALE	DESIGNED
	1 : 100 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia Public Transport Authority		BYFORD RAIL EXTENSION
LINEWIDE VIADUCT STRUCTURAL		
RETAINING WALLS SET-OUT - SHEET 11		
PTA Drawing No:	11-S-169-0278	Rev: C.01



RETAINING WALL 3 - PLAN

SCALE 1 : 100



RETAINING WALL 3 - ELEVATION

SCALE 1 : 100

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0280

SOP NO.	TYPE	EASTING	NORTHING
SOP 109e	RW-3	68410.085	340477.053
SOP 110e	RW-3	68409.682	340474.981
SOP 111e	RW-3	68409.278	340472.900
SOP 112e	RW-3	68408.874	340470.819
SOP 113e	RW-3	68408.469	340468.738
SOP 114e	RW-3	68408.065	340466.657
SOP 115e	RW-3	68407.661	340464.576
SOP 116e	RW-3	68407.256	340462.495
SOP 117e	RW-3	68406.852	340460.414
SOP 118e	RW-3	68406.448	340458.333
SOP 119e	RW-3	68406.044	340456.251
SOP 120e	RW-3	68405.639	340454.170
SOP 121e	RW-3	68405.235	340452.089
SOP 122e	RW-3	68404.831	340450.008
SOP 123e	RW-3	68404.426	340447.927
SOP 124e	RW-3	68404.022	340445.846
SOP 125e	RW-3	68403.618	340443.765
SOP 126e	RW-3	68403.214	340441.684
SOP 127e	RW-3	68402.809	340439.603
SOP 128e	RW-3	68402.405	340437.522
SOP 129e	RW-3	68402.001	340435.441
SOP 130e	RW-3	68401.596	340433.359
SOP 131e	RW-3	68401.192	340431.278
SOP 132e	RW-3	68400.788	340429.197
SOP 133e	RW-3	68400.383	340427.116
SOP 134e	RW-3	68399.979	340425.035
SOP 135e	RW-3	68399.575	340422.954
SOP 136e	RW-3	68399.171	340420.873
SOP 137e	RW-3	68398.766	340418.792
SOP 138e	RW-3	68398.362	340416.711
SOP 139e	RW-3	68397.958	340414.630
SOP 140e	RW-3	68397.553	340412.549

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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REFERENCES	SCALE	DESIGNED
	1 : 100 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

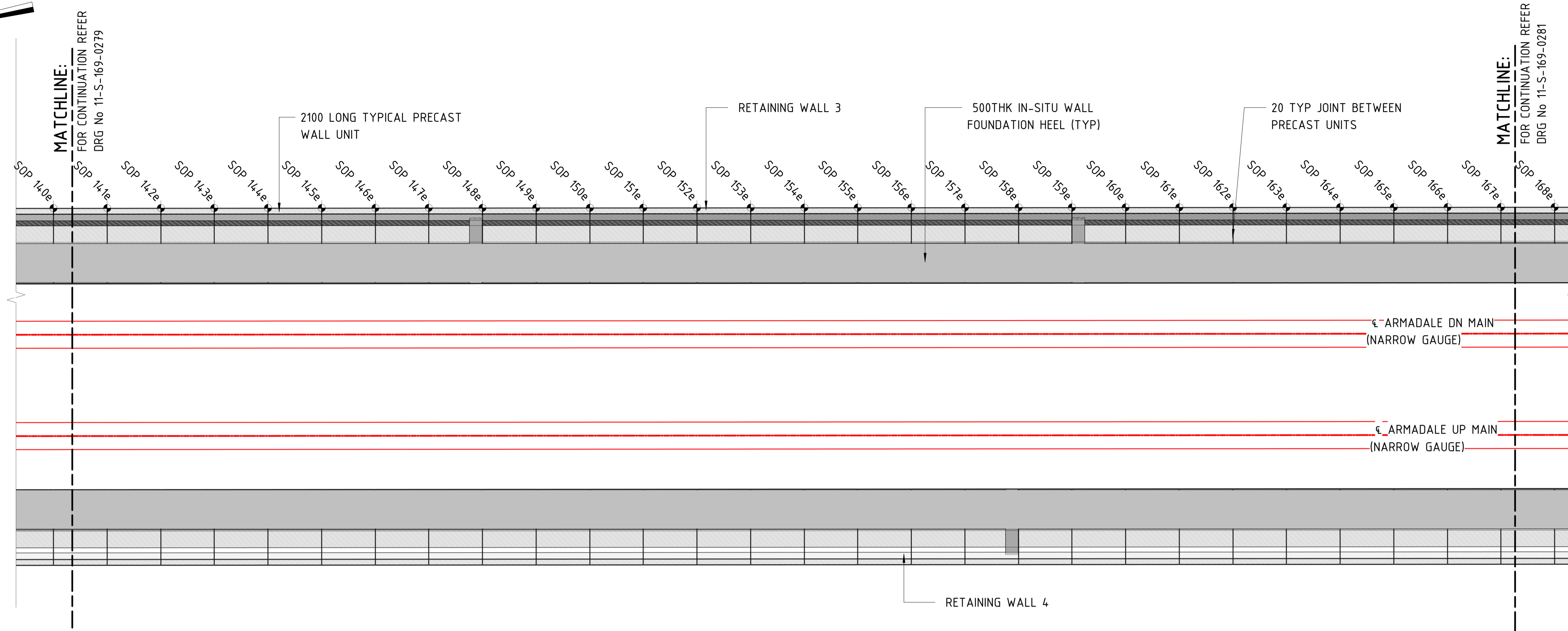
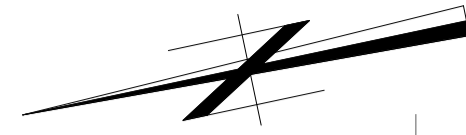
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

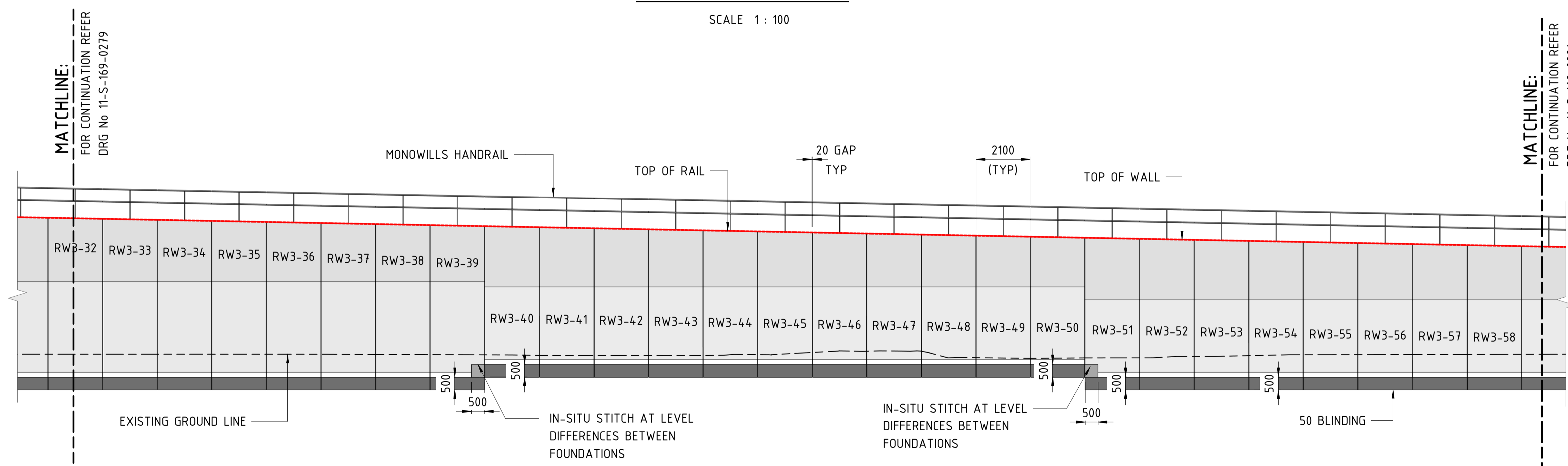
LINEWIDE VIADUCT
STRUCTURAL

RETAINING WALLS SET-OUT - SHEET 12

PTA Drawing No: 11-S-169-0279 Rev: C.01



RETAINING WALL 3 - PLAN
SCALE 1 : 100



RETAINING WALL 3 - ELEVATION
SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 14.1e	RW-3	68397.149	340410.467
SOP 14.2e	RW-3	68396.745	340408.386
SOP 14.3e	RW-3	68396.341	340406.305
SOP 14.4e	RW-3	68395.936	340404.224
SOP 14.5e	RW-3	68395.532	340402.143
SOP 14.6e	RW-3	68395.128	340400.062
SOP 14.7e	RW-3	68394.723	340397.981
SOP 14.8e	RW-3	68394.319	340395.900
SOP 14.9e	RW-3	68393.915	340393.819
SOP 15.0e	RW-3	68393.510	340391.738
SOP 15.1e	RW-3	68393.106	340389.657
SOP 15.2e	RW-3	68392.702	340387.575
SOP 15.3e	RW-3	68392.298	340385.494
SOP 15.4e	RW-3	68391.893	340383.413
SOP 15.5e	RW-3	68391.489	340381.332
SOP 15.6e	RW-3	68391.085	340379.251
SOP 15.7e	RW-3	68390.680	340377.170
SOP 15.8e	RW-3	68390.276	340375.089
SOP 15.9e	RW-3	68389.872	340373.008
SOP 16.0e	RW-3	68389.468	340370.927
SOP 16.1e	RW-3	68389.063	340368.846
SOP 16.2e	RW-3	68388.659	340366.764
SOP 16.3e	RW-3	68388.255	340364.683
SOP 16.4e	RW-3	68387.850	340362.602
SOP 16.5e	RW-3	68387.446	340360.521
SOP 16.6e	RW-3	68387.042	340358.440
SOP 16.7e	RW-3	68386.637	340356.359

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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REFERENCES

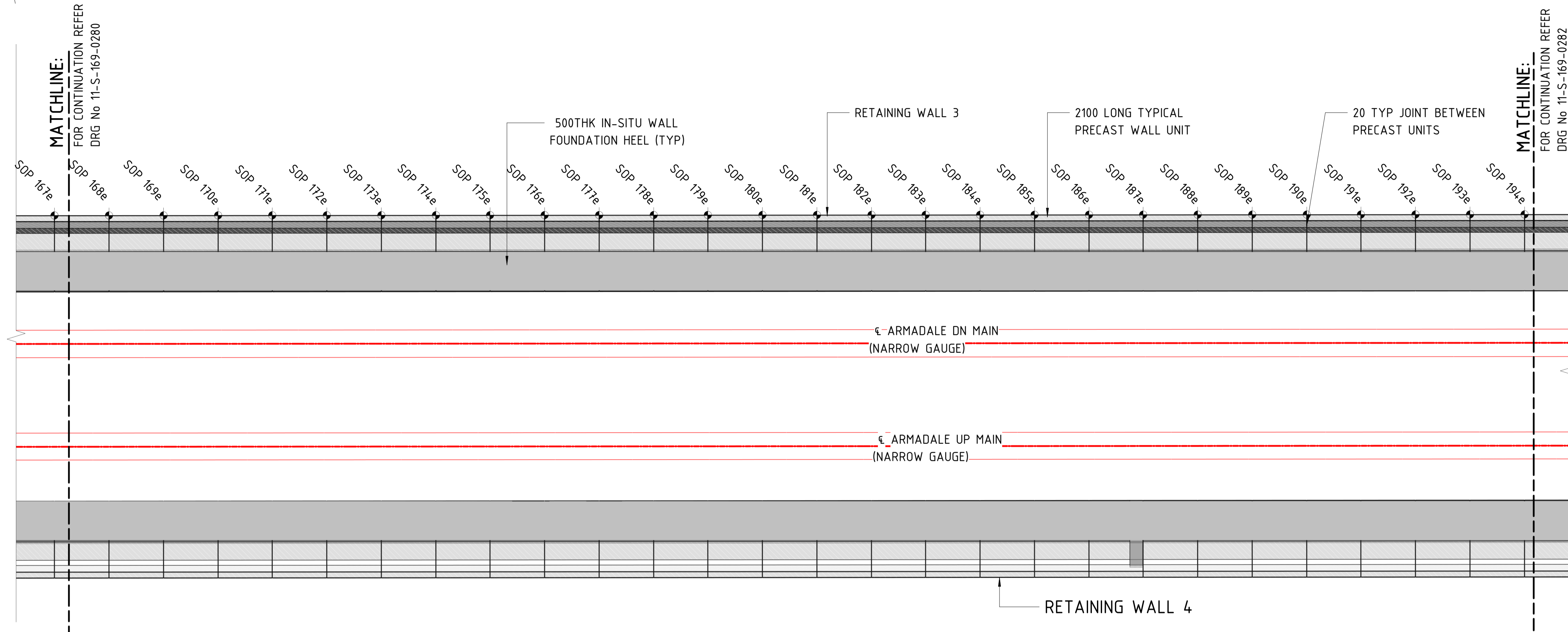
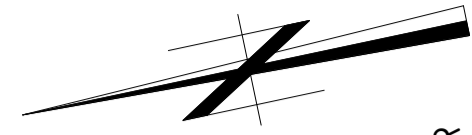
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DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 13

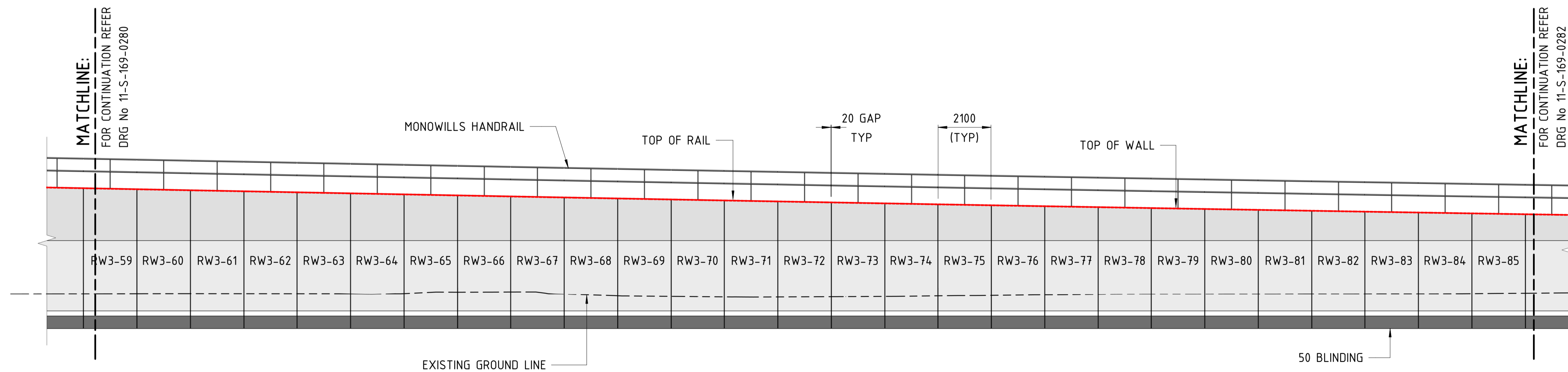
PTA Drawing No: **11-S-169-0280** Rev: **C.01**



RETAINING WALL 3 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 168e	RW-3	68386.233	340354.278
SOP 169e	RW-3	68385.829	340352.197
SOP 170e	RW-3	68385.425	340350.116
SOP 171e	RW-3	68385.020	340348.035
SOP 172e	RW-3	68384.616	340345.954
SOP 173e	RW-3	68384.212	340343.872
SOP 174e	RW-3	68383.807	340341.791
SOP 175e	RW-3	68383.403	340339.710
SOP 176e	RW-3	68382.999	340337.629
SOP 177e	RW-3	68382.595	340335.548
SOP 178e	RW-3	68382.190	340333.467
SOP 179e	RW-3	68381.786	340331.386
SOP 180e	RW-3	68381.382	340329.305
SOP 181e	RW-3	68380.977	340327.224
SOP 182e	RW-3	68380.573	340325.143
SOP 183e	RW-3	68380.169	340323.062
SOP 184e	RW-3	68379.764	340320.980
SOP 185e	RW-3	68379.360	340318.899
SOP 186e	RW-3	68378.956	340316.818
SOP 187e	RW-3	68378.552	340314.737
SOP 188e	RW-3	68378.147	340312.656
SOP 189e	RW-3	68377.743	340310.575
SOP 190e	RW-3	68377.339	340308.494
SOP 191e	RW-3	68376.934	340306.413
SOP 192e	RW-3	68376.530	340304.332
SOP 193e	RW-3	68376.126	340302.251
SOP 194e	RW-3	68375.722	340300.170



RETAINING WALL 3 - ELEVATION

SCALE 1 : 100

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01424 Rev: C.01



REFERENCES

SCALE	1 : 100 (@ A1)
DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

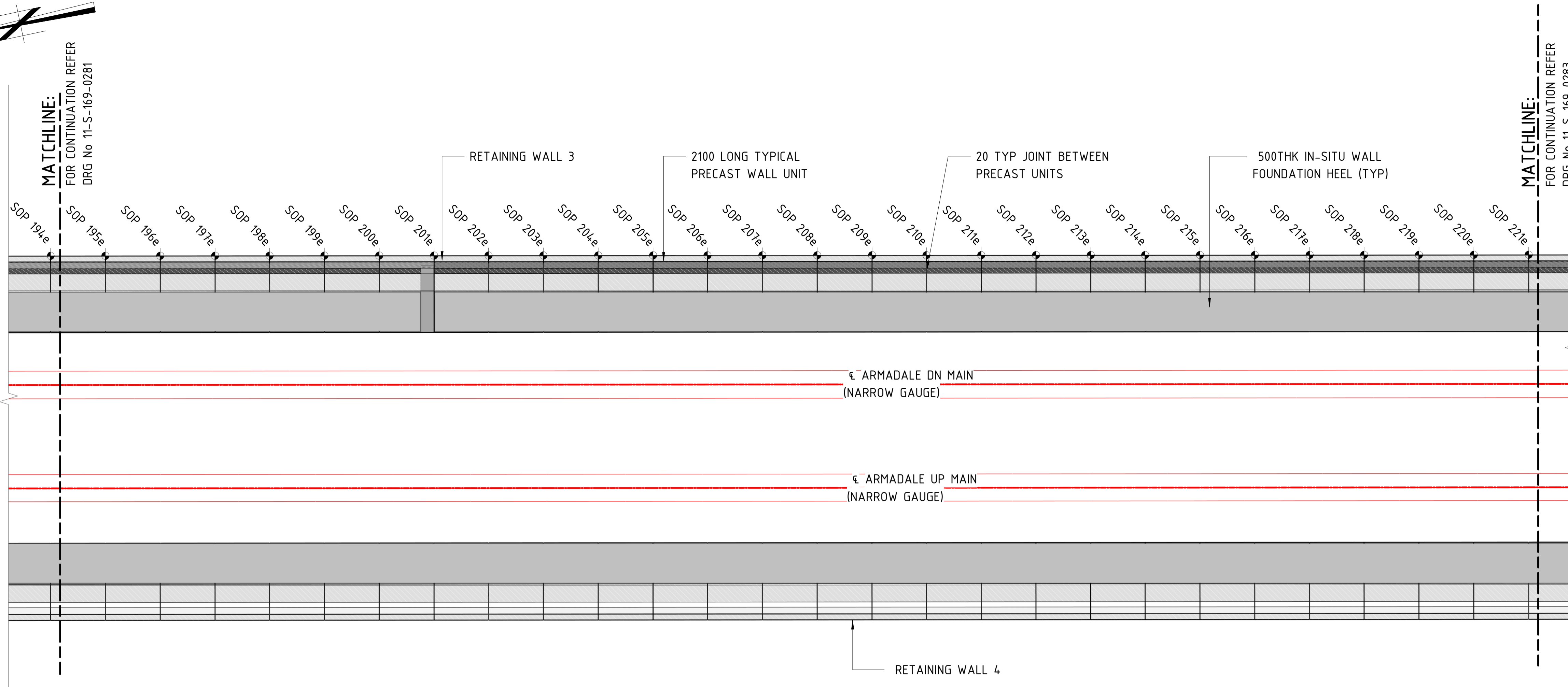
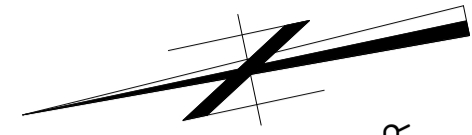
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

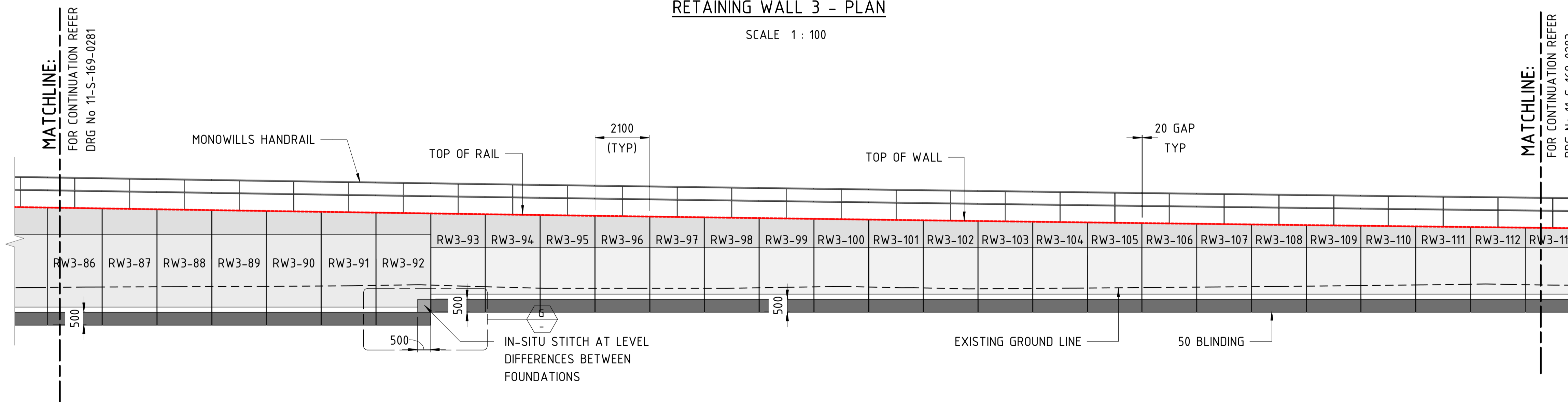
RETAINING WALLS SET-OUT - SHEET 14

PTA Drawing No: 11-S-169-0281 Rev: C.01



RETAINING WALL 3 - PLAN

SCALE 1 : 100



RETAINING WALL 3 - ELEVATION

SCALE 1 : 100

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

SOP NO.	TYPE	EASTING	NORTHING
SOP 195e	RW-3	68375.317	340298.088
SOP 196e	RW-3	68374.913	340296.007
SOP 197e	RW-3	68374.509	340293.926
SOP 198e	RW-3	68374.104	340291.845
SOP 199e	RW-3	68373.700	340289.764
SOP 200e	RW-3	68373.296	340287.683
SOP 201e	RW-3	68372.891	340285.602
SOP 202e	RW-3	68372.487	340283.521
SOP 203e	RW-3	68372.083	340281.440
SOP 204e	RW-3	68371.679	340279.359
SOP 205e	RW-3	68371.274	340277.278
SOP 206e	RW-3	68370.870	340275.196
SOP 207e	RW-3	68370.466	340273.115
SOP 208e	RW-3	68370.061	340271.034
SOP 209e	RW-3	68369.657	340268.953
SOP 210e	RW-3	68369.253	340266.872
SOP 211e	RW-3	68368.849	340264.791
SOP 212e	RW-3	68368.444	340262.710
SOP 213e	RW-3	68368.040	340260.629
SOP 214e	RW-3	68367.636	340258.548
SOP 215e	RW-3	68367.231	340256.467
SOP 216e	RW-3	68366.827	340254.385
SOP 217e	RW-3	68366.423	340252.304
SOP 218e	RW-3	68366.018	340250.223
SOP 219e	RW-3	68365.614	340248.142
SOP 220e	RW-3	68365.210	340246.061
SOP 221e	RW-3	68364.806	340243.980

WORK IN PROGRESS

ISSUED FOR DA

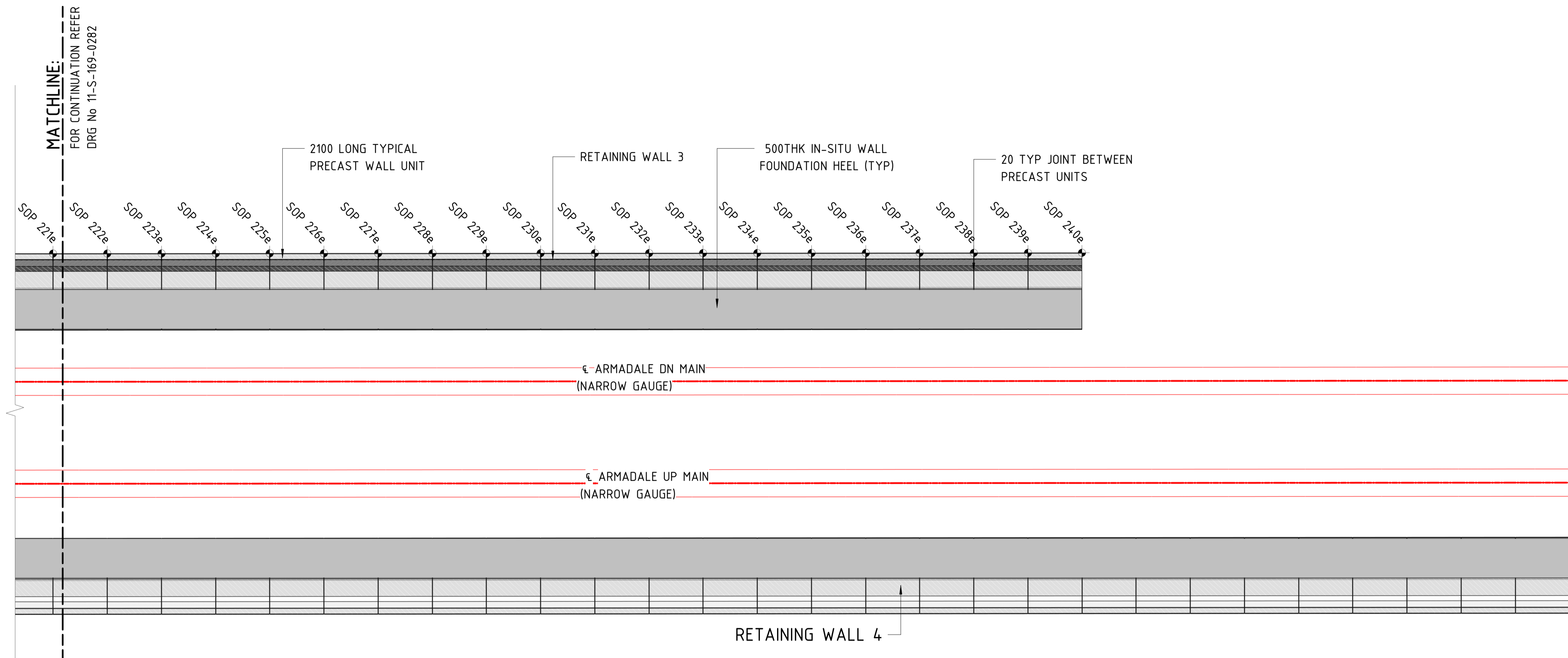
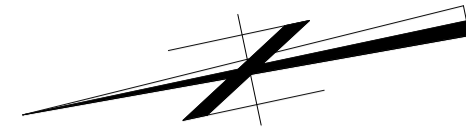
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B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	



REFERENCES

SCALE	1 : 100 (@ A1)
DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71
APPROVED	
DATE	

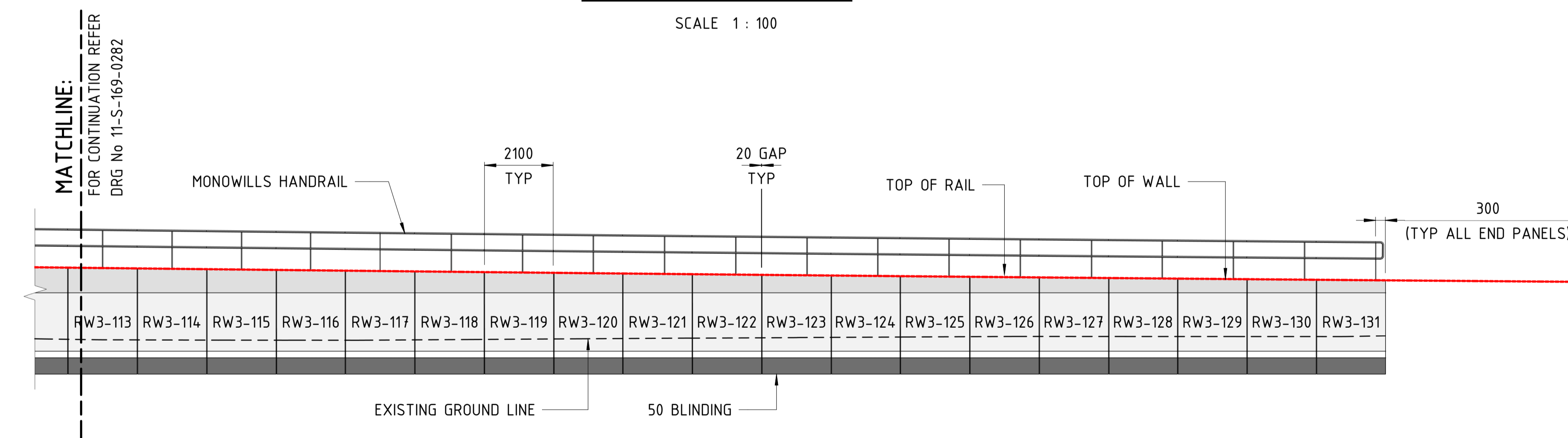
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LINEWIDE VIADUCT	
STRUCTURAL	
RETAINING WALLS SET-OUT - SHEET 15	
PTA Drawing No:	11-S-169-0282
Rev:	C.01



SOP NO.	TYPE	EASTING	NORTHING
SOP 222e	RW-3	68364.401	340241.899
SOP 223e	RW-3	68363.997	340239.818
SOP 224e	RW-3	68363.593	340237.737
SOP 225e	RW-3	68363.188	340235.656
SOP 226e	RW-3	68362.784	340233.575
SOP 227e	RW-3	68362.380	340231.493
SOP 228e	RW-3	68361.976	340229.412
SOP 229e	RW-3	68361.571	340227.331
SOP 230e	RW-3	68361.167	340225.250
SOP 231e	RW-3	68360.763	340223.169
SOP 232e	RW-3	68360.358	340221.088
SOP 233e	RW-3	68359.954	340219.007
SOP 234e	RW-3	68359.550	340216.926
SOP 235e	RW-3	68359.145	340214.845
SOP 236e	RW-3	68358.741	340212.764
SOP 237e	RW-3	68358.337	340210.683
SOP 238e	RW-3	68357.933	340208.601
SOP 239e	RW-3	68357.528	340206.520
SOP 240e	RW-3	68357.126	340204.449

RETAINING WALL 3 - PLAN

SCALE 1 : 100



RETAINING WALL 3 - ELEVATION

SCALE 1 : 100

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

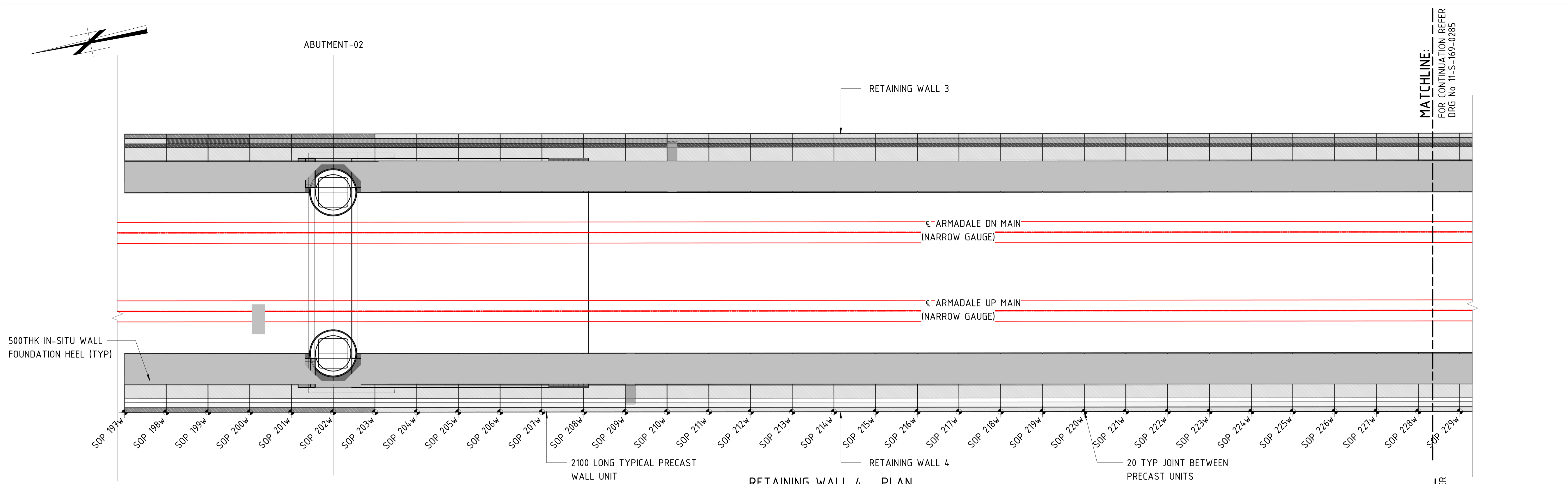
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	



SCALE	DESIGNED
1 : 100 (@ A1)	L.SCHOOF
DATUM	DRAWN
HORIZONTAL: PCG2020 VERTICAL: AHD71	T.NGAN
	CHECKED
	T.FORD
	APPROVED
	DATE

REFERENCES	DESIGNED
	L.SCHOOF
	DRAWN
	T.NGAN
	CHECKED
	T.FORD
	APPROVED
	DATE

Government of Western Australia
Public Transport Authority
BYFORD RAIL EXTENSION
LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 16
PTA Drawing No: 11-S-169-0283 Rev: C.01

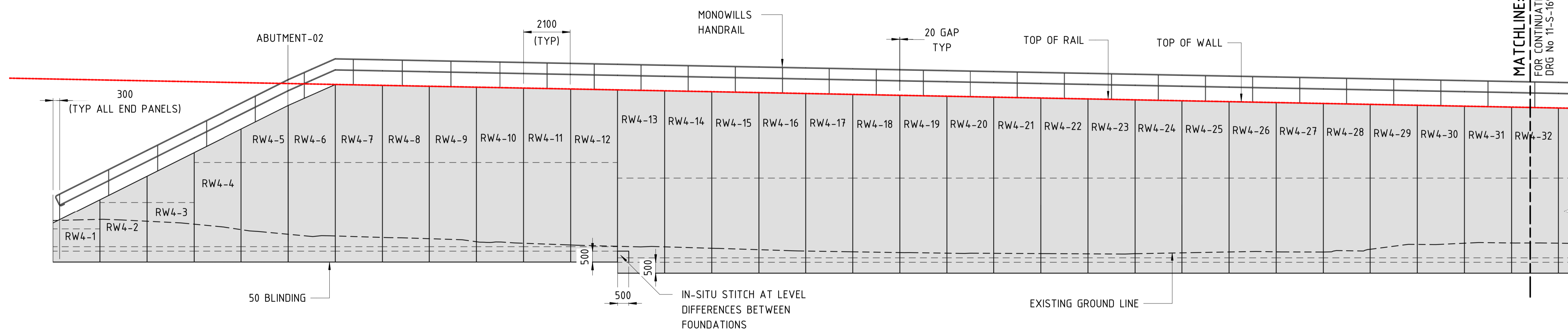


RETAINING WALL 4 - PLAN

SCALE 1 : 100

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0285

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0285



RETAINING WALL 4 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 197w	RW-4	68396.203	340479.761
SOP 198w	RW-4	68395.801	340477.690
SOP 199w	RW-4	68395.396	340475.609
SOP 200w	RW-4	68394.992	340473.527
SOP 201w	RW-4	68394.588	340471.446
SOP 202w	RW-4	68394.184	340469.365
SOP 203w	RW-4	68393.779	340467.284
SOP 204w	RW-4	68393.375	340465.203
SOP 205w	RW-4	68392.971	340463.122
SOP 206w	RW-4	68392.567	340461.041
SOP 207w	RW-4	68392.162	340458.960

SOP NO.	TYPE	EASTING	NORTHING
SOP 208w	RW-4	68391.758	340456.879
SOP 209w	RW-4	68391.354	340454.798
SOP 210w	RW-4	68390.950	340452.716
SOP 211w	RW-4	68390.545	340450.635
SOP 212w	RW-4	68390.141	340448.554
SOP 213w	RW-4	68389.737	340446.473
SOP 214w	RW-4	68389.333	340444.392
SOP 215w	RW-4	68388.928	340442.311
SOP 216w	RW-4	68388.524	340440.230
SOP 217w	RW-4	68388.120	340438.149
SOP 218w	RW-4	68387.716	340436.068

SOP NO.	TYPE	EASTING	NORTHING
SOP 219w	RW-4	68387.311	340433.987
SOP 220w	RW-4	68386.907	340431.905
SOP 221w	RW-4	68386.503	340429.824
SOP 222w	RW-4	68386.099	340427.743
SOP 223w	RW-4	68385.694	340425.662
SOP 224w	RW-4	68385.290	340423.581
SOP 225w	RW-4	68384.886	340421.500
SOP 226w	RW-4	68384.481	340419.419
SOP 227w	RW-4	68384.077	340417.338
SOP 228w	RW-4	68383.673	340415.257

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS		ISSUED FOR DA	
SCALE	DESIGNED	L.SCHOOF	
1 : 100 (@ A1)	DRAWN	T.NGAN	
DATUM	CHECKED	T.FORD	
HORIZONTAL: PCG2020	APPROVED		
VERTICAL: AHD71	DATE		
REFERENCES		BYFORD RAIL EXTENSION LINEWIDE VIADUCT STRUCTURAL RETAINING WALLS SET-OUT - SHEET 17 PTA Drawing No: 11-S-169-0284 Rev: C.01	

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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B.01	03-02-23	ISSUED FOR IDDR - IDC				
A	29-07-22	ISSUED FOR RD				

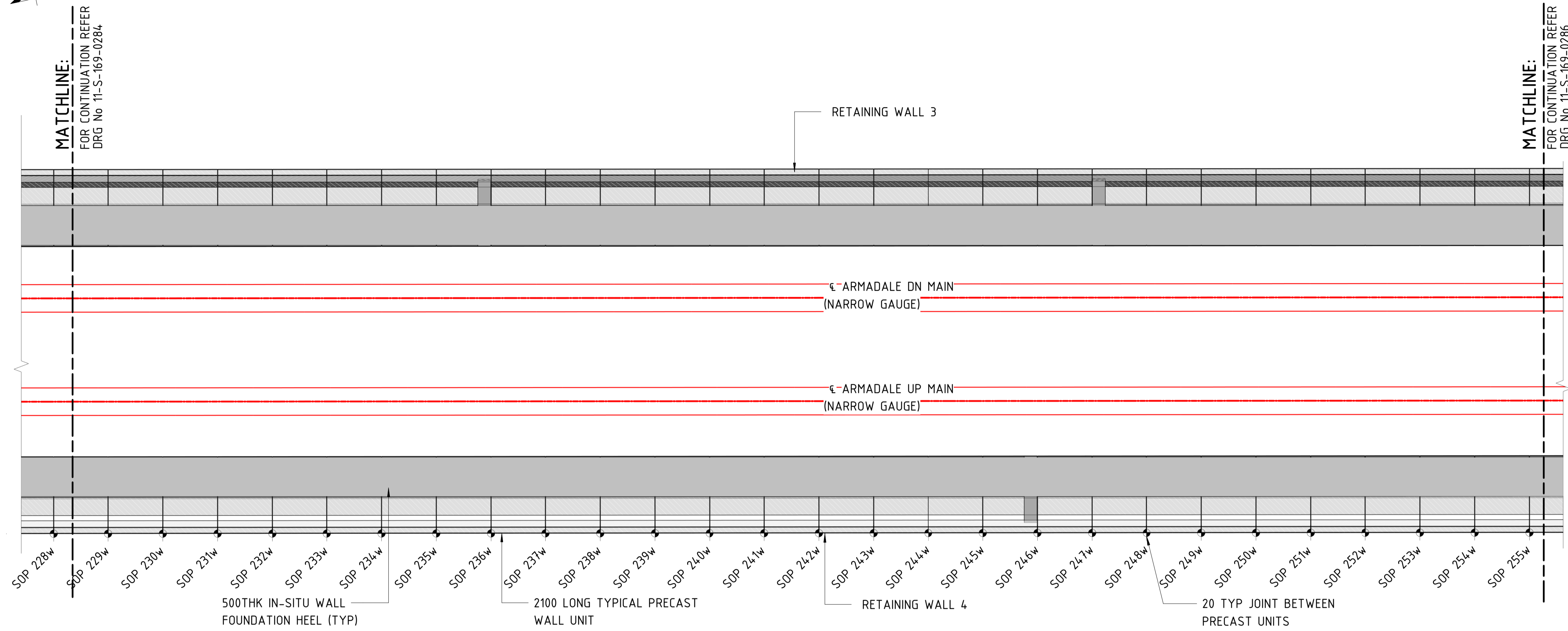
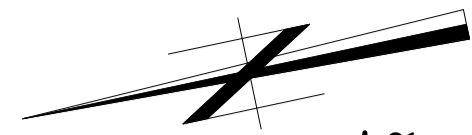
ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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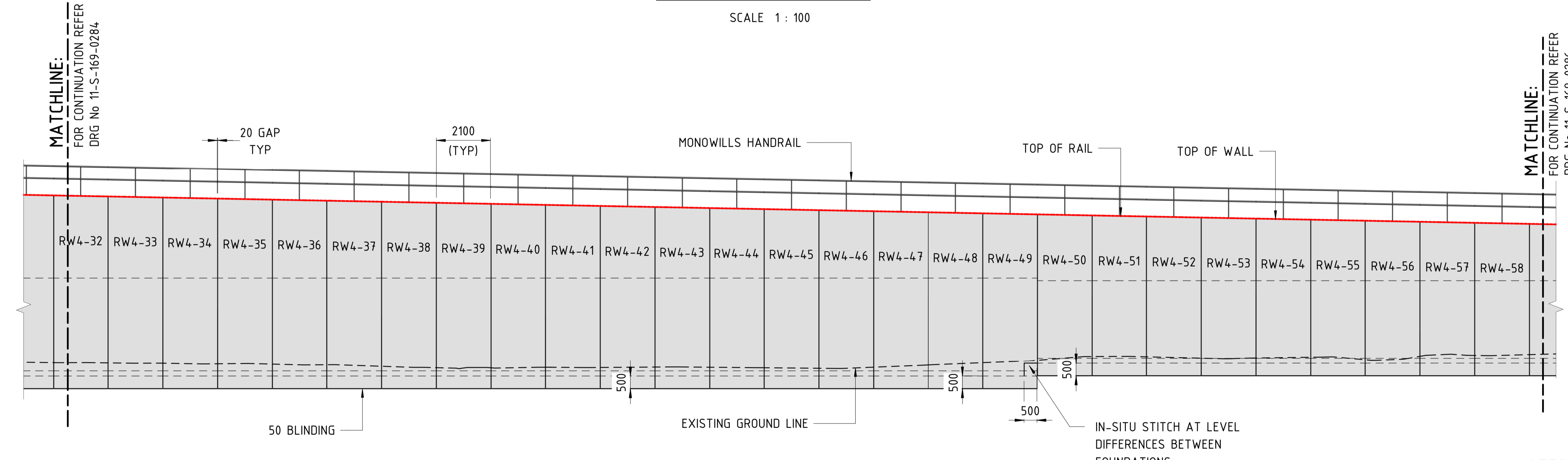
Contractor No: R30-DEA-DWG-ST-170-01427 Rev: C.01





RETAINING WALL 4 - PLAN

SCALE 1 : 100



RETAINING WALL 4 - ELEVATION

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 229w	RW-4	68383.269	340413.176
SOP 230w	RW-4	68382.864	340411.094
SOP 231w	RW-4	68382.460	340409.013
SOP 232w	RW-4	68382.056	340406.932
SOP 233w	RW-4	68381.652	340404.851
SOP 234w	RW-4	68381.247	340402.770
SOP 235w	RW-4	68380.843	340400.689
SOP 236w	RW-4	68380.439	340398.608
SOP 237w	RW-4	68380.035	340396.527
SOP 238w	RW-4	68379.630	340394.446
SOP 239w	RW-4	68379.226	340392.365
SOP 240w	RW-4	68378.822	340390.283
SOP 241w	RW-4	68378.418	340388.202
SOP 242w	RW-4	68378.013	340386.121
SOP 243w	RW-4	68377.609	340384.040
SOP 244w	RW-4	68377.205	340381.959
SOP 245w	RW-4	68376.801	340379.878
SOP 246w	RW-4	68376.396	340377.797
SOP 247w	RW-4	68375.992	340375.716
SOP 248w	RW-4	68375.588	340373.635
SOP 249w	RW-4	68375.184	340371.554
SOP 250w	RW-4	68374.779	340369.472
SOP 251w	RW-4	68374.375	340367.391
SOP 252w	RW-4	68373.971	340365.310
SOP 253w	RW-4	68373.566	340363.229
SOP 254w	RW-4	68373.162	340361.148
SOP 255w	RW-4	68372.758	340359.067

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS		ISSUED FOR DA	
SCALE	DESIGNED	BYFORD RAIL EXTENSION	
1 : 100 (@ A1)	L.SCHOOF		
	DRAWN		
	T.NGAN		
	CHECKED		
	T.FORD		
DATUM	APPROVED		
HORIZONTAL: PCG2020			
VERTICAL: AHD71			
	DATE		
		LINEWIDE VIADUCT STRUCTURAL RETAINING WALLS SET-OUT - SHEET 18 PTA Drawing No: 11-S-169-0285 Rev: C.01	



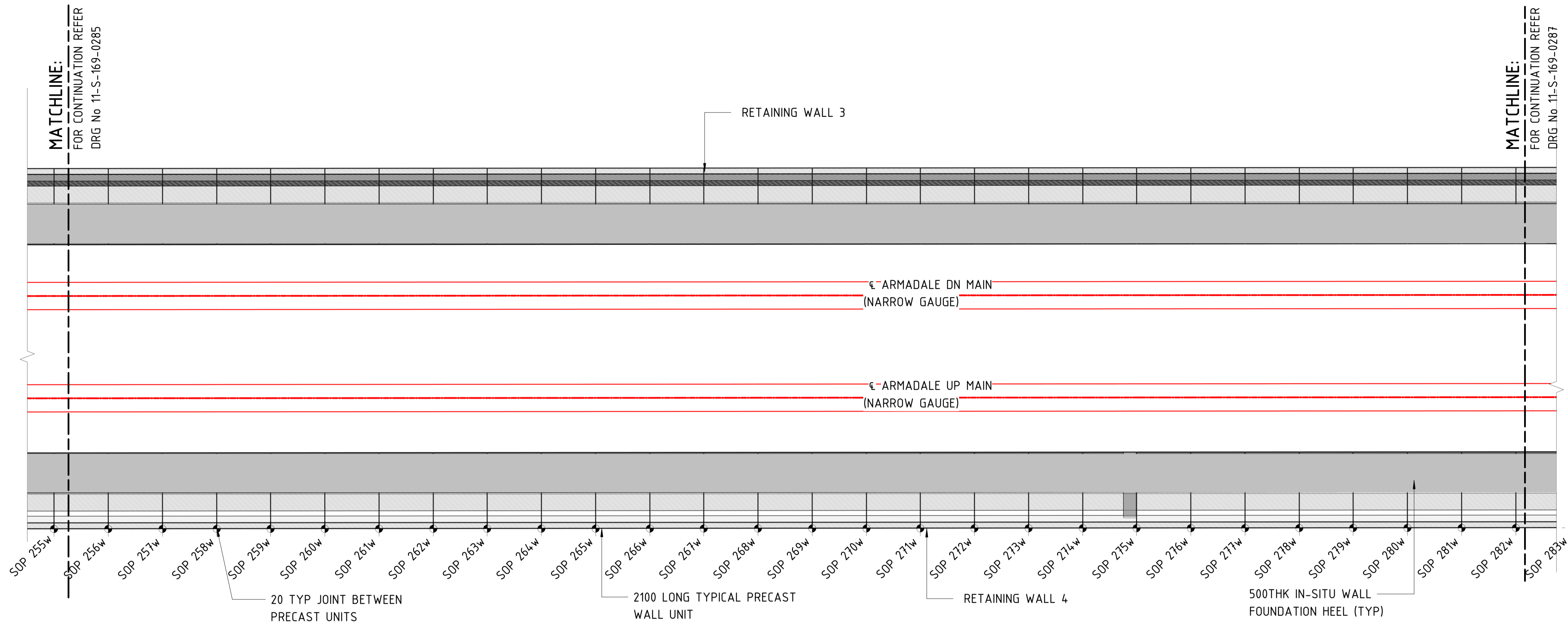
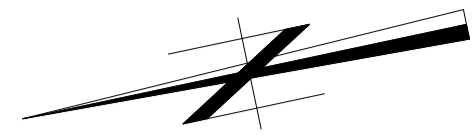
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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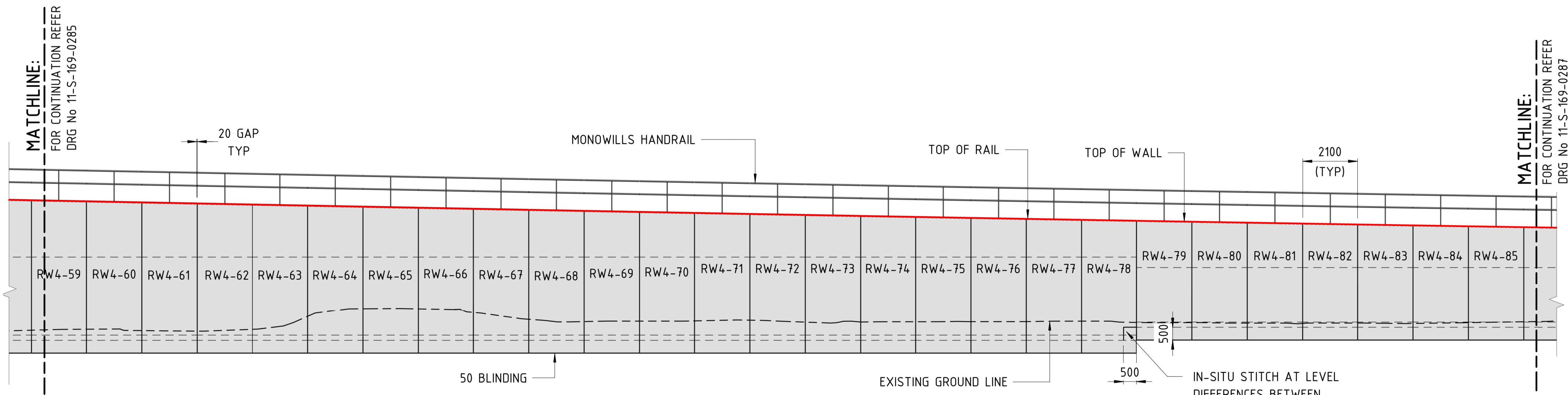
Contractor No: R30-DEA-DWG-ST-170-01000 Rev: C.01



RETAINING WALL 4 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 256w	RW-4	68372.354	340356.986
SOP 257w	RW-4	68371.949	340354.905
SOP 258w	RW-4	68371.545	340352.824
SOP 259w	RW-4	68371.141	340350.743
SOP 260w	RW-4	68370.737	340348.661
SOP 261w	RW-4	68370.332	340346.580
SOP 262w	RW-4	68369.928	340344.499
SOP 263w	RW-4	68369.524	340342.418
SOP 264w	RW-4	68369.120	340340.337
SOP 265w	RW-4	68368.715	340338.256
SOP 266w	RW-4	68368.311	340336.175
SOP 267w	RW-4	68367.907	340334.094
SOP 268w	RW-4	68367.503	340332.013
SOP 269w	RW-4	68367.098	340329.932
SOP 270w	RW-4	68366.694	340327.850
SOP 271w	RW-4	68366.290	340325.769
SOP 272w	RW-4	68365.886	340323.688
SOP 273w	RW-4	68365.481	340321.607
SOP 274w	RW-4	68365.077	340319.526
SOP 275w	RW-4	68364.673	340317.445
SOP 276w	RW-4	68364.269	340315.364
SOP 277w	RW-4	68363.864	340313.283
SOP 278w	RW-4	68363.460	340311.202
SOP 279w	RW-4	68363.056	340309.121
SOP 280w	RW-4	68362.652	340307.039
SOP 281w	RW-4	68362.247	340304.958
SOP 282w	RW-4	68361.843	340302.877



RETAINING WALL 4 - ELEVATION

SCALE 1 : 100

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS **ISSUED FOR DA**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDDR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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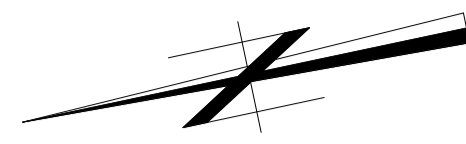
REFERENCES	SCALE	DESIGNED
	1 : 100 (@ A1)	L.SCHOOF
		DRAWN T.NGAN
		CHECKED T.FORD
		APPROVED
		DATE

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

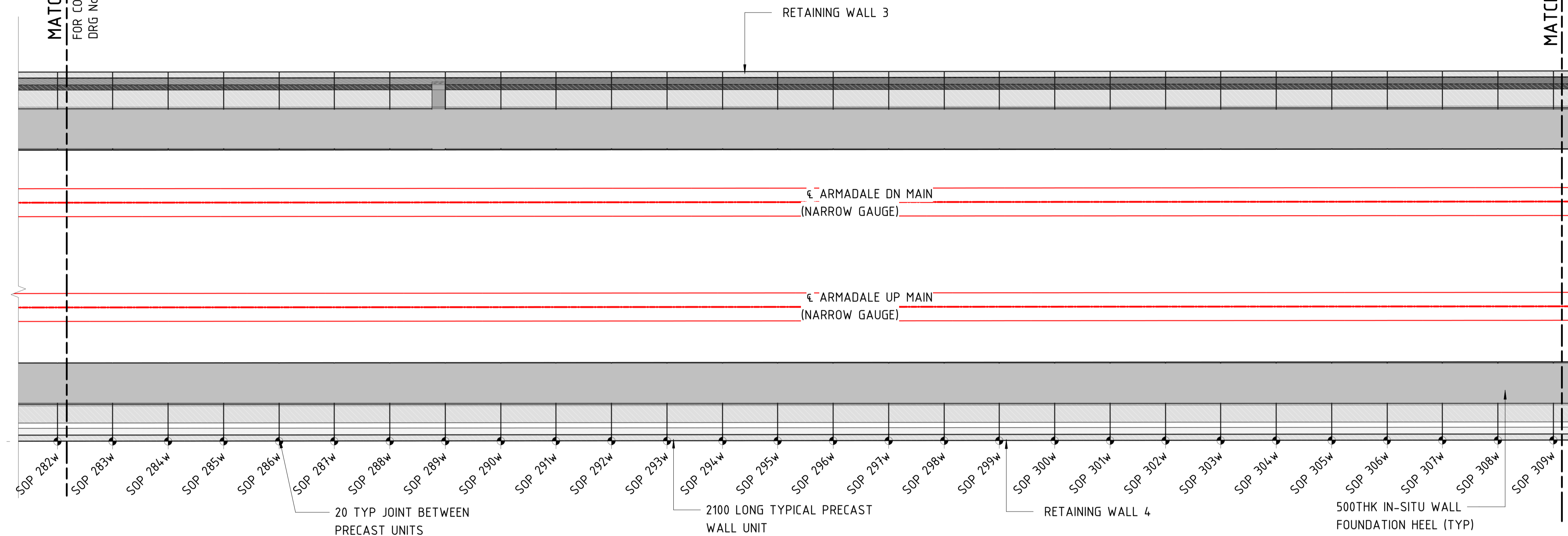
LINEWIDE VIADUCT
STRUCTURAL
RETAINING WALLS SET-OUT - SHEET 19

PTA Drawing No: 11-S-169-0286 Rev: C.01



MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0286

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0288



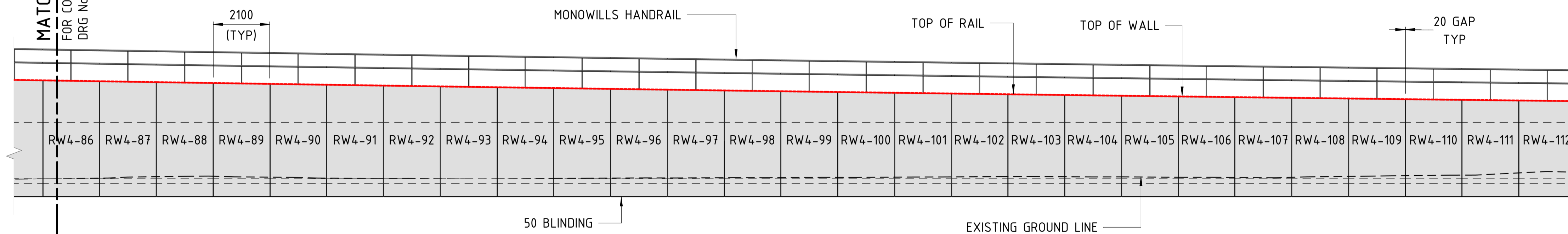
RETAINING WALL 4 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 283w	RW-4	68361.439	340300.796
SOP 284w	RW-4	68361.034	340298.715
SOP 285w	RW-4	68360.630	340296.634
SOP 286w	RW-4	68360.226	340294.553
SOP 287w	RW-4	68359.822	340292.472
SOP 288w	RW-4	68359.417	340290.391
SOP 289w	RW-4	68359.013	340288.310
SOP 290w	RW-4	68358.609	340286.228
SOP 291w	RW-4	68358.205	340284.147
SOP 292w	RW-4	68357.800	340282.066
SOP 293w	RW-4	68357.396	340279.985
SOP 294w	RW-4	68356.992	340277.904
SOP 295w	RW-4	68356.588	340275.823
SOP 296w	RW-4	68356.183	340273.742
SOP 297w	RW-4	68355.779	340271.661
SOP 298w	RW-4	68355.375	340269.580
SOP 299w	RW-4	68354.971	340267.499
SOP 300w	RW-4	68354.566	340265.417
SOP 301w	RW-4	68354.162	340263.336
SOP 302w	RW-4	68353.758	340261.255
SOP 303w	RW-4	68353.354	340259.174
SOP 304w	RW-4	68352.949	340257.093
SOP 305w	RW-4	68352.545	340255.012
SOP 306w	RW-4	68352.141	340252.931
SOP 307w	RW-4	68351.737	340250.850
SOP 308w	RW-4	68351.332	340248.769
SOP 309w	RW-4	68350.928	340246.688

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0286

MATCHLINE:
FOR CONTINUATION REFER
DRG No 11-S-169-0288



RETAINING WALL 4 - ELEVATION

SCALE 1 : 100

NOTES:

FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S	T.N	T.F	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S	T.N	T.F	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE 0 100 200 300 400 500 1000mm

A1 AT ORIGINAL PLOT SIZE

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Contractor No: R30-DEA-DWG-ST-170-01000_1ai.vothien.rvt Rev: C.01



REFERENCES

SCALE	1 : 100 (@ A1)
DESIGNED	L.SCHOOF
DRAWN	T.NGAN
CHECKED	T.FORD
APPROVED	
DATE	
DATUM	
HORIZONTAL:	PCG2020
VERTICAL:	AHD71

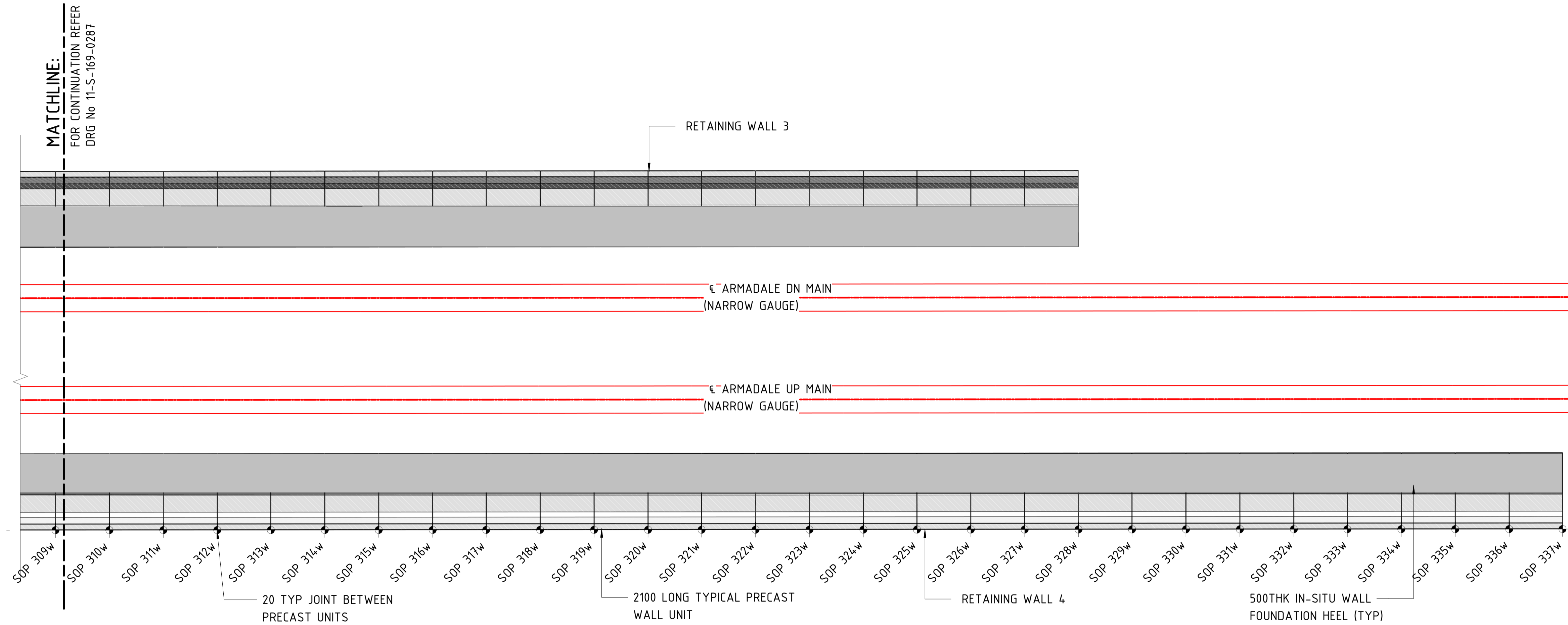
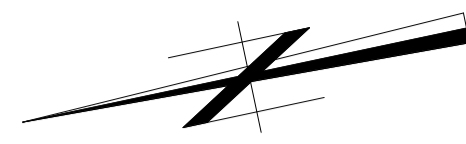
Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

RETAINING WALLS SET-OUT - SHEET 20

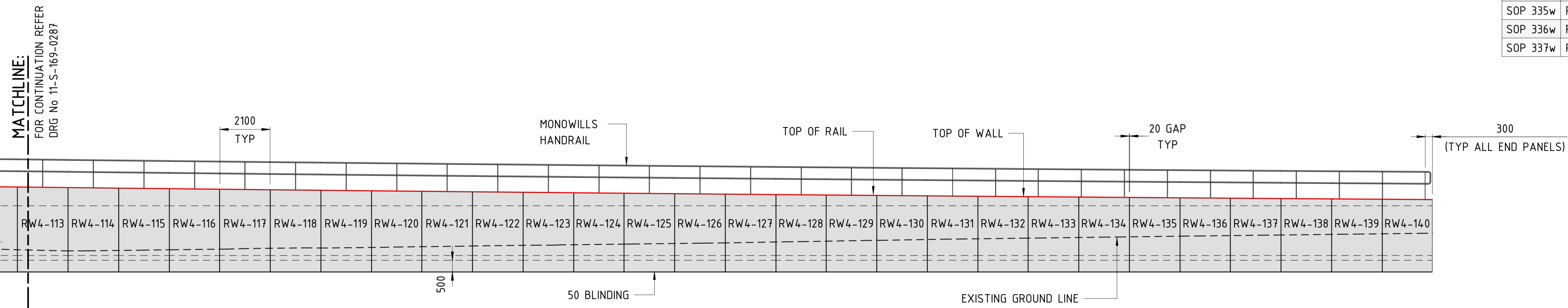
PTA Drawing No: 11-S-169-0287 Rev: C.01



RETAINING WALL 4 - PLAN

SCALE 1 : 100

SOP NO.	TYPE	EASTING	NORTHING
SOP 310w	RW-4	68350.524	340244.606
SOP 311w	RW-4	68350.119	340242.525
SOP 312w	RW-4	68349.715	340240.444
SOP 313w	RW-4	68349.311	340238.363
SOP 314w	RW-4	68348.907	340236.282
SOP 315w	RW-4	68348.502	340234.201
SOP 316w	RW-4	68348.098	340232.120
SOP 317w	RW-4	68347.694	340230.039
SOP 318w	RW-4	68347.290	340227.958
SOP 319w	RW-4	68346.885	340225.877
SOP 320w	RW-4	68346.481	340223.795
SOP 321w	RW-4	68346.077	340221.714
SOP 322w	RW-4	68345.673	340219.633
SOP 323w	RW-4	68345.268	340217.552
SOP 324w	RW-4	68344.864	340215.471
SOP 325w	RW-4	68344.460	340213.390
SOP 326w	RW-4	68344.056	340211.309
SOP 327w	RW-4	68343.651	340209.228
SOP 328w	RW-4	68343.247	340207.147
SOP 329w	RW-4	68342.843	340205.066
SOP 330w	RW-4	68342.439	340202.984
SOP 331w	RW-4	68342.034	340200.903
SOP 332w	RW-4	68341.630	340198.822
SOP 333w	RW-4	68341.226	340196.741
SOP 334w	RW-4	68340.822	340194.660
SOP 335w	RW-4	68340.417	340192.579
SOP 336w	RW-4	68340.013	340190.498
SOP 337w	RW-4	68339.611	340188.427



RETAINING WALL 4 - ELEVATION

SCALE 1 : 100

NOTES:
FOR GENERAL NOTES REFER TO DRG Nos 11-S-169-0004 AND 11-S-169-0005

WORK IN PROGRESS

ISSUED FOR DA

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
C.01	09-03-23	ISSUED FOR DA	L.S.	T.N.	T.F.	
B.01	03-02-23	ISSUED FOR IDOR - IDC	L.S.	T.N.	T.F.	
A	29-07-22	ISSUED FOR RD	N.S.W	T.N	D.S	

ORIG SIZE: 0 100 200 300 400 500 1000mm
A1 AT ORIGINAL PLOT SIZE

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REFERENCES

SCALE 1 : 100 (@ A1)	DESIGNED L.SCHOOF
DATUM	DRAWN T.NGAN
HORIZONTAL: PCG2020	CHECKED T.FORD
VERTICAL: AHD71	APPROVED
	DATE

Government of Western Australia
Public Transport Authority

BYFORD RAIL EXTENSION

LINEWIDE VIADUCT
STRUCTURAL

RETAINING WALLS SET-OUT - SHEET 21

PTA Drawing No: 11-S-169-0288 Rev: C.01