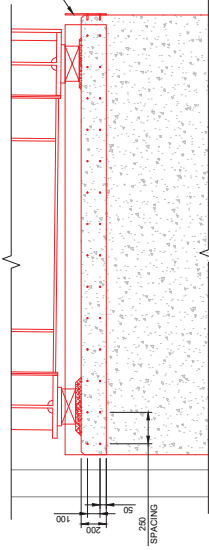
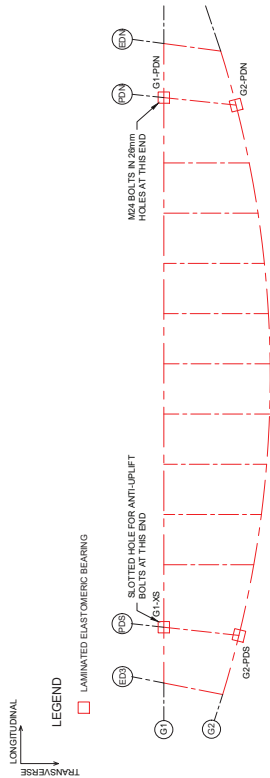


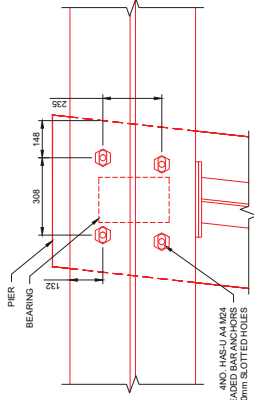
SCHEDULE 214: BRIDGE BEARINGS									
Bearing identification mark									
Type of bearing (nomenclature in accordance with BS 1337-1, Table 1)									
Quantity	Material		Upper surface		Lower surface		Eccentric Motor		G1 PDS, Q2 PDS, G1 PDS, Q2 PDS
Seating	Characteristic strength (N/mm2)	Upper surface	Lower surface	Upper surface	Lower surface	Commissural Mortar		NA	1:1
		Longitudinal (mm)	Transverse (mm)	Longitudinal (mm)	Transverse (mm)	NA	NA		
Support area	Upper surface	Longitudinal (mm)	Transverse (mm)	Longitudinal (mm)	Transverse (mm)	Eccentric Mortar		NA	1:1
	Lower surface	Longitudinal (mm)	Transverse (mm)	Longitudinal (mm)	Transverse (mm)	NA	NA		
Actions (kN)	Characteristic maxima (SL5)	Vertical NEd,ser	permanent	Vertical NEd,ser	permanent	Eccentric Mortar		NA	1:1
		Transverse VEd,ser	min.	Transverse VEd,ser	min.	NA	NA		
	Longitudinal VEd,ser	29	Longitudinal VEd,ser	29	Eccentric Mortar		NA	1:1	
	Vertical NEd	403	Vertical NEd	403	Eccentric Mortar				NA
	Design maxima (ULS)	Transverse VEd	T.S.C*	Transverse VEd	T.S.C*	Eccentric Mortar		NA	
		Variable	Variable	Variable	Variable	NA	NA		
	Characteristic combination (SL5)	max. NEd,ser	max. VEd,ser	max. NEd,ser	max. VEd,ser	Eccentric Mortar		NA	1:1
		min. NEd,ser	min. VEd,ser	min. NEd,ser	min. VEd,ser	NA	NA		
	Design combination (ULS)	max. NEd	max. VEd	max. NEd	max. VEd	Eccentric Mortar		NA	1:1
		min. NEd	min. VEd	min. NEd	min. VEd	NA	NA		
Displacement (mm)	Characteristic (SL5)	Irreversible	Irreversible	Characteristic (SL5)	Irreversible	Eccentric Mortar		NA	1:1
		Reversible	Reversible	Characteristic (SL5)	Reversible	NA	NA		
	Longitudinal VEd,ser	2	Longitudinal VEd,ser	2	Eccentric Mortar		NA	1:1	
	Longitudinal VEd,ser	20	Longitudinal VEd,ser	20	Eccentric Mortar				NA
	Transverse VEd,ser	1	Transverse VEd,ser	1	Eccentric Mortar		NA	1:1	
	Longitudinal VEd,ser	12	Longitudinal VEd,ser	12	Eccentric Mortar				NA
	Transverse VEd,ser	27	Transverse VEd,ser	27	Eccentric Mortar		NA	1:1	
	Longitudinal VEd,ser	0.0069	Longitudinal VEd,ser	0.0069	Eccentric Mortar				NA
	Transverse VEd,ser	0.0070	Transverse VEd,ser	0.0070	Eccentric Mortar		NA	1:1	
	Longitudinal ex Ed,ser	0.0081	Longitudinal ex Ed,ser	0.0081	Eccentric Mortar				NA
Transverse ex Ed,ser	0.0082	Transverse ex Ed,ser	0.0082	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0083	Longitudinal ex Ed,ser	0.0083	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0084	Transverse ex Ed,ser	0.0084	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0085	Longitudinal ex Ed,ser	0.0085	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0086	Transverse ex Ed,ser	0.0086	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0087	Longitudinal ex Ed,ser	0.0087	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0088	Transverse ex Ed,ser	0.0088	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0089	Longitudinal ex Ed,ser	0.0089	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0090	Transverse ex Ed,ser	0.0090	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0091	Longitudinal ex Ed,ser	0.0091	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0092	Transverse ex Ed,ser	0.0092	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0093	Longitudinal ex Ed,ser	0.0093	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0094	Transverse ex Ed,ser	0.0094	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0095	Longitudinal ex Ed,ser	0.0095	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0096	Transverse ex Ed,ser	0.0096	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0097	Longitudinal ex Ed,ser	0.0097	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0098	Transverse ex Ed,ser	0.0098	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0099	Longitudinal ex Ed,ser	0.0099	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0100	Transverse ex Ed,ser	0.0100	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0101	Longitudinal ex Ed,ser	0.0101	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0102	Transverse ex Ed,ser	0.0102	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0103	Longitudinal ex Ed,ser	0.0103	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0104	Transverse ex Ed,ser	0.0104	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0105	Longitudinal ex Ed,ser	0.0105	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0106	Transverse ex Ed,ser	0.0106	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0107	Longitudinal ex Ed,ser	0.0107	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0108	Transverse ex Ed,ser	0.0108	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0109	Longitudinal ex Ed,ser	0.0109	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0110	Transverse ex Ed,ser	0.0110	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0111	Longitudinal ex Ed,ser	0.0111	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0112	Transverse ex Ed,ser	0.0112	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0113	Longitudinal ex Ed,ser	0.0113	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0114	Transverse ex Ed,ser	0.0114	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0115	Longitudinal ex Ed,ser	0.0115	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0116	Transverse ex Ed,ser	0.0116	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0117	Longitudinal ex Ed,ser	0.0117	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0118	Transverse ex Ed,ser	0.0118	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0119	Longitudinal ex Ed,ser	0.0119	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0120	Transverse ex Ed,ser	0.0120	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0121	Longitudinal ex Ed,ser	0.0121	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0122	Transverse ex Ed,ser	0.0122	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0123	Longitudinal ex Ed,ser	0.0123	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0124	Transverse ex Ed,ser	0.0124	Eccentric Mortar		NA	1:1		
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Transverse ex Ed,ser	0.0126	Transverse ex Ed,ser	0.0126	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0127	Longitudinal ex Ed,ser	0.0127	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0128	Transverse ex Ed,ser	0.0128	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0129	Longitudinal ex Ed,ser	0.0129	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0131	Longitudinal ex Ed,ser	0.0131	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0132	Transverse ex Ed,ser	0.0132	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0133	Longitudinal ex Ed,ser	0.0133	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0134	Transverse ex Ed,ser	0.0134	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0135	Longitudinal ex Ed,ser	0.0135	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0137	Longitudinal ex Ed,ser	0.0137	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0139	Longitudinal ex Ed,ser	0.0139	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0140	Transverse ex Ed,ser	0.0140	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0141	Longitudinal ex Ed,ser	0.0141	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0142	Transverse ex Ed,ser	0.0142	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0143	Longitudinal ex Ed,ser	0.0143	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0144	Transverse ex Ed,ser	0.0144	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0145	Longitudinal ex Ed,ser	0.0145	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0146	Transverse ex Ed,ser	0.0146	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0147	Longitudinal ex Ed,ser	0.0147	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0159	Longitudinal ex Ed,ser	0.0159	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0160	Transverse ex Ed,ser	0.0160	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0161	Longitudinal ex Ed,ser	0.0161	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0162	Transverse ex Ed,ser	0.0162	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0163	Longitudinal ex Ed,ser	0.0163	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0164	Transverse ex Ed,ser	0.0164	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0165	Longitudinal ex Ed,ser	0.0165	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0166	Transverse ex Ed,ser	0.0166	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0167	Longitudinal ex Ed,ser	0.0167	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0168	Transverse ex Ed,ser	0.0168	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0169	Longitudinal ex Ed,ser	0.0169	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0171	Longitudinal ex Ed,ser	0.0171	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0172	Transverse ex Ed,ser	0.0172	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0173	Longitudinal ex Ed,ser	0.0173	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0175	Longitudinal ex Ed,ser	0.0175	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0176	Transverse ex Ed,ser	0.0176	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0177	Longitudinal ex Ed,ser	0.0177	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0178	Transverse ex Ed,ser	0.0178	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0179	Longitudinal ex Ed,ser	0.0179	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0180	Transverse ex Ed,ser	0.0180	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0181	Longitudinal ex Ed,ser	0.0181	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0182	Transverse ex Ed,ser	0.0182	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0183	Longitudinal ex Ed,ser	0.0183	Eccentric Mortar				NA	1:1
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Longitudinal ex Ed,ser	0.0189	Longitudinal ex Ed,ser	0.0189	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0190	Transverse ex Ed,ser	0.0190	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0191	Longitudinal ex Ed,ser	0.0191	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0192	Transverse ex Ed,ser	0.0192	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0193	Longitudinal ex Ed,ser	0.0193	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0194	Transverse ex Ed,ser	0.0194	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0195	Longitudinal ex Ed,ser	0.0195	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0196	Transverse ex Ed,ser	0.0196	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0197	Longitudinal ex Ed,ser	0.0197	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0198	Transverse ex Ed,ser	0.0198	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0199	Longitudinal ex Ed,ser	0.0199	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0200	Transverse ex Ed,ser	0.0200	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0201	Longitudinal ex Ed,ser	0.0201	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0202	Transverse ex Ed,ser	0.0202	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0203	Longitudinal ex Ed,ser	0.0203	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0204	Transverse ex Ed,ser	0.0204	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0205	Longitudinal ex Ed,ser	0.0205	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0206	Transverse ex Ed,ser	0.0206	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0207	Longitudinal ex Ed,ser	0.0207	Eccentric Mortar				NA	1:1
Transverse ex Ed,ser	0.0208	Transverse ex Ed,ser	0.0208	Eccentric Mortar		NA	1:1		
Longitudinal ex Ed,ser	0.0209	Longitudinal ex Ed,ser	0.0209	Eccentric Mortar					



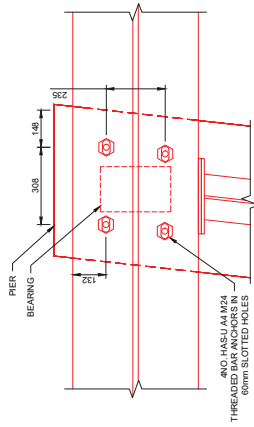
ELEVATION ON BEARING SCREEN
HOLDING DOWN BOLTS OMITTED FOR CLARITY
SCALE 1:10



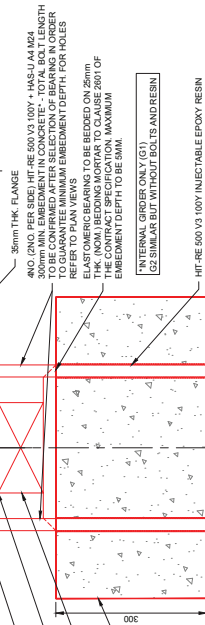
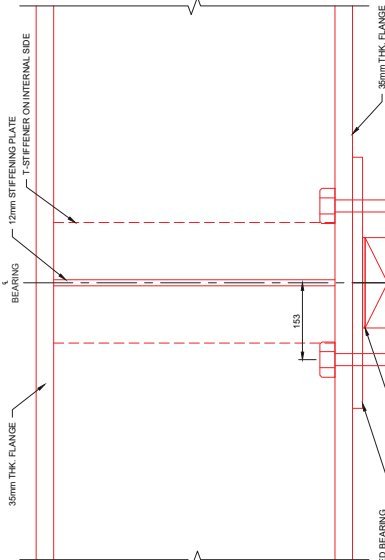
BEARING ARTICULATION



PLAN ON BEARING DETAIL AT SOUTH PIER - G1



PLAN ON BEARING DETAIL AT NORTH PIER - G1



TYPICAL BEARING DETAIL

NOTES

- [illegible]

LEGEND

- - EXISTING STRUCTURE
— PROPOSED STRUCTURE

Notes below are additional to hazards/risks normally associated with its type of work. Numbers correspond to Risk Register references.

CO5 Main orders to be filled in braced pairs. Contractor to guarantee stability and determine most suitable lifting operation	Operations & Maintenance No risk identified
	Smantling / Demolition (Future) No risk identified
Refer to general notes and the Principal Contractor for more information about the risks associated with this work.	

NOT FOR CONSTRUCTION

A	ISSUED FOR DETAILED DESIGN	DC	JSG	22/11/18
Rev.	Revision details	Chkd:	Appd:	Date
Drawn:	DT	Preliminary		
Design:	AC	For comment	☒	
Chkd:	DC	For tender		
Appd:	JSG	For construction		
Date:	NOV 2019	As constructed		
		Other		



BOTWELL BRIDGE WIDENING

Drawing Title

BRIDGE BEARINGS

Original Drawing Size : A1	Dimensions : mm
Scale : AS SHOWN	Copyright © ConwayAecom
Drawing No	
60486237-H501-DWG-2101	
Rev	A