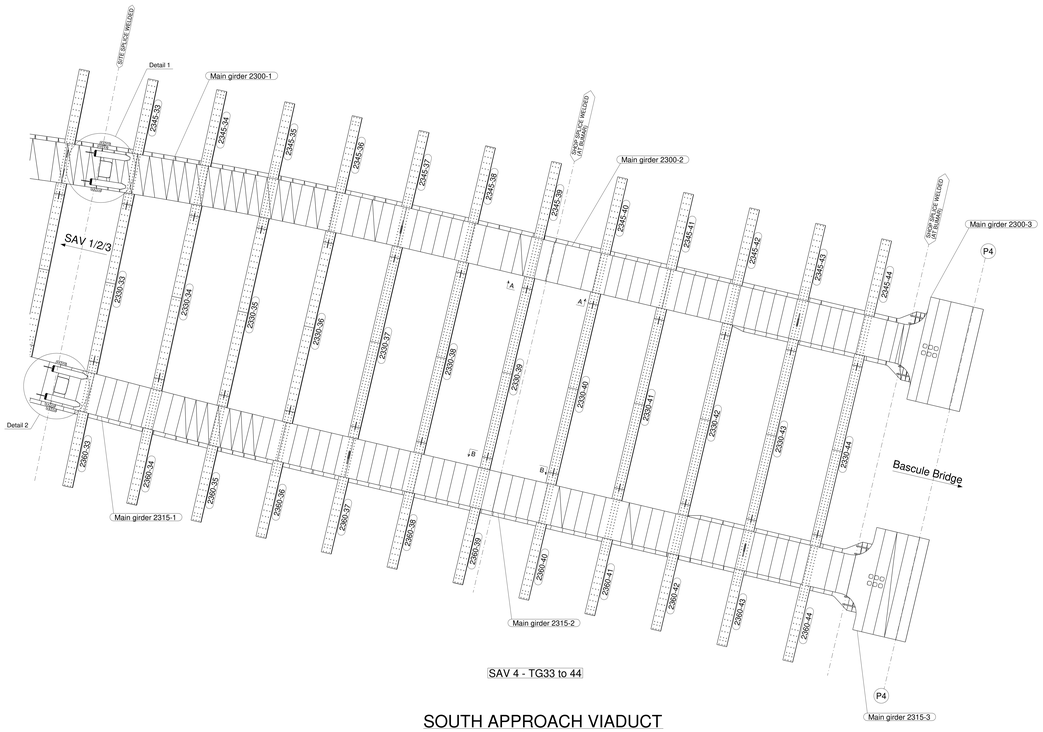
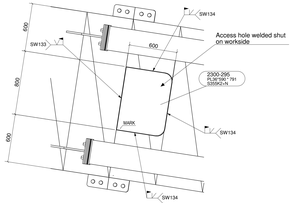
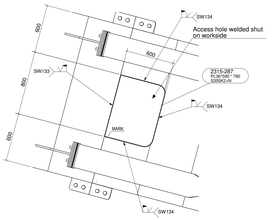


SAV 4 - TG33 to 44

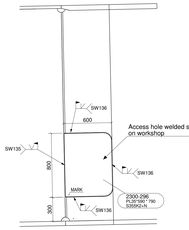
SOUTH APPROACH VIADUCT



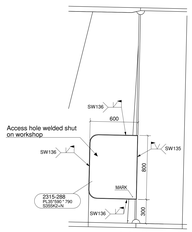
Detail 1, 1:20
West girder's top flange



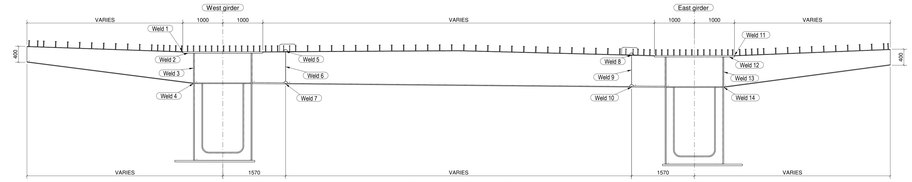
Detail 2, 1:20
East girder's top flange



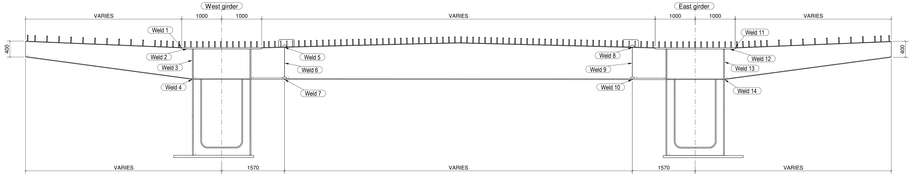
dsn A - A, 1:20
West girder's inner web



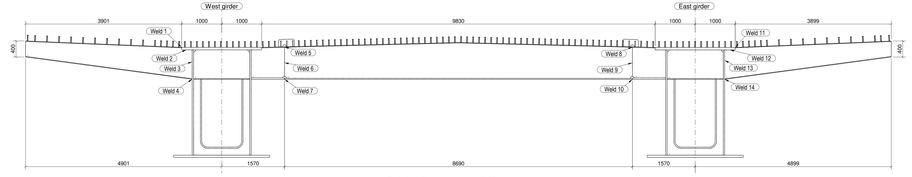
dsn B - B, 1:20
East girder's inner web



Typical detail transverse girders 33-36
1:40



Typical detail transverse girders 37-42
1:40



Typical detail transverse girders 43-44
1:40

SAV 4	Cantilever WEST				Transverse girder						Cantilever EAST			
	Weld 1	Weld 2	Weld 3	Weld 4	Weld 5	Weld 6	Weld 7	Weld 8	Weld 9	Weld 10	Weld 11	Weld 12	Weld 13	Weld 14
Transverse girder 33	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW97	SW1	SW95	SW97	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 34	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW97	SW1	SW95	SW97	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 35	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW97	SW1	SW95	SW97	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 36	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW97	SW1	SW95	SW97	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 37	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 38	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 39	SW106	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW108	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 40	SW107	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW109	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 41	SW107	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW109	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 42	SW107	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW95	SW98	SW1	SW95	SW98	SW109	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 43	SW107	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW96	SW99	SW1	SW96	SW99	SW109	4 ◺◺	6 ◺◺	10 ◺◺
Transverse girder 44	SW107	4 ◺◺	6 ◺◺	10 ◺◺	SW1	SW96	SW99	SW1	SW96	SW99	SW109	4 ◺◺	6 ◺◺	10 ◺◺

General note :

Execution :

1 - **Steel Quality (EN 10025) :**
- t ≤35mm: Grade S355J2 +N
- 35mm ≤ t < 40mm: Grade S355K2 +N
- 40mm ≤ t < 63mm: Grade S355NL
- t > 63mm: Grade S355NL
- Steelwork in shims and taper plates to be grade S275J2 + N
- Stainless steel shall be corrosion resistance class CRC II, grade 1.4404 stainless steel in accordance with BS EN 1993-1-4 annex A, unless noted otherwise.

2 - **Shear studs BS EN ISO13918 :**
Unless noted otherwise, all shear studs to be 22mm diameter by 150mm high, sd1 studs in accordance with BS EN ISO 13918.
Steel grade: S235J2 +C450

3 - **Welds CLASS 3 :**
- All welds shall be performed continuously around the complete perimeter unless noted otherwise.
- Dimensions of fillet welds are minimum effective throat thickness unless noted otherwise.
- Welds according to weld catalogue workshop or worksite
  - -TLL3RC-VBSC-NA-DL-DR-CB-001005: North & South Approach Viaduct – Weld catalogue Workshop
  - -TLL3RC-VBSC-NA-DL-DR-CB-001006: North & South Approach Viaduct – Weld catalogue Site
  - -TLL3RC-VBSC-BR-DL-DR-CB-003005: Bascule Bridge – Weld catalogue Workshop
  - -TLL3RC-VBSC-BR-DL-DR-CB-003006: Bascule Bridge – Weld catalogue Site
- Note 1 : Deep penetration filled welds to be in accordance with EN 1090-2:2018 §12.4.4 (b) ; see detail Note 1

Detail Note 1

4 - **Execution class : EXC3 EN1090-2:2018 :**

5 - **Tolerances according to EN1090-1 and EN1090-2 :**
- -TLL3RC-VBSC-NA-DL-DR-CB-001003: North Approach Viaduct – Fabrication Tolerances
- -TLL3RC-VBSC-SA-DL-DR-CB-002003: South Approach Viaduct – Fabrication Tolerances
- -TLL3RC-VBSC-BR-DL-DR-CB-003003: Bascule Bridge – Fabrication Tolerances

6 - **Annotations :**
Dimensions in mm.

7 - **Conservation :**
- -TLL3RC-VBSC-NA-DL-DR-CB-001003: North Approach Viaduct – Paint Drawing
- -TLL3RC-VBSC-SA-DL-DR-CB-002003: South Approach Viaduct – Paint Drawing
- -TLL3RC-VBSC-BR-DL-DR-CB-003003: Bascule Bridge – Paint Drawing

Erection :

1 - **Steel Quality :**
Shall be specified on the drawings and calculation notes.

2 - **Welds :**
- All welds shall be performed continuously around the complete perimeter unless noted otherwise.
- Where permanent backing material is used for single sided welds, the material must be closely fitted and firmly. Located only by tack welds in the root of the permanent weld.

3 - **Annotations :**
Dimensions in mm.

4 - **Bolted assemblies :**
All bolts to be M24 or M30 class 10.9 HRC bolts to BS EN14399 in standard clearance holes unless noted otherwise. All bolts to be preloaded to the minimum values stated in table 18 of BS EN 1090 unless noted otherwise.
All stainless steel bolted connections to be grade A4-80 to BS EN ISO 3506.

5 - **C.o.G. :**
Center of gravity.
Weight in metric tons.

6 - **Conservation :**
- -TLL3RC-VBSC-NA-DL-DR-CB-001003: North Approach Viaduct – Paint Drawing
- -TLL3RC-VBSC-SA-DL-DR-CB-002003: South Approach Viaduct – Paint Drawing
- -TLL3RC-VBSC-BR-DL-DR-CB-003003: Bascule Bridge – Paint Drawing

Rev	Date	Drawn	Checked	Approved	Description
P01	30.09.2021	MWA	FC		First Issue - For Approval

GULL WING BRIDGE LOWESTOFT — FARRANS A CBN COMPANY — VICTOR BUYCK STEEL CONSTRUCTION

Project: Gull Wing Bridge Lowestoft
Lake Lothing Third Crossing
Part: SOUTH APPROACH VIADUCT
Subject: GENERAL ARRANGEMENT DRAWING
Title: GENERAL ARRANGEMENT SAV 4

Project number: 2661/19
Papersize: A0++
Scale: As indicated
Projection:

Project	Originator	Zone	Level	Type	Discipline	Number	Revision
TLL3RC	VBSC	SA	DL	DR	CB	002104	P01

Zeta Structures