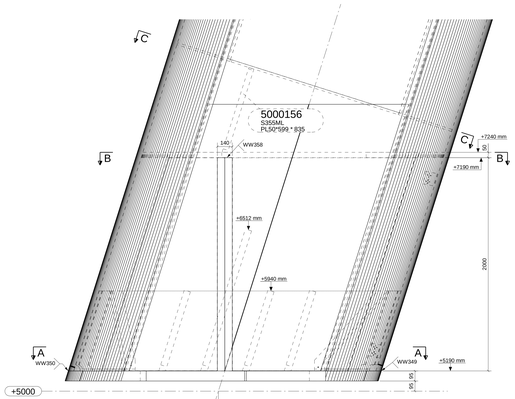
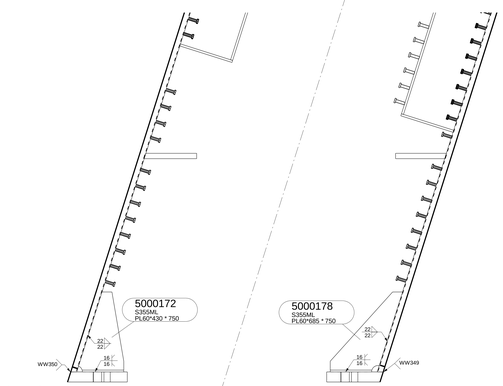
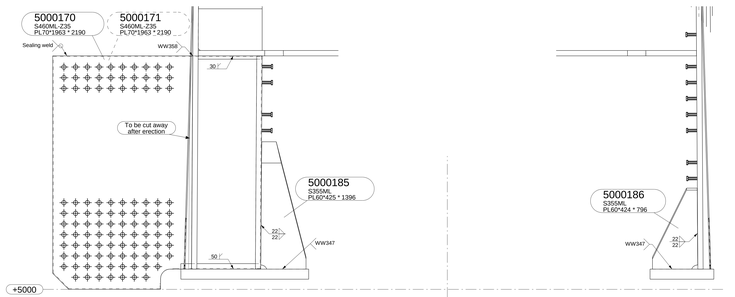


PYLON ASSEMBLY 5000 - PYL1 - ELEVATION LOOKING NORTH TO SOUTH
1:15

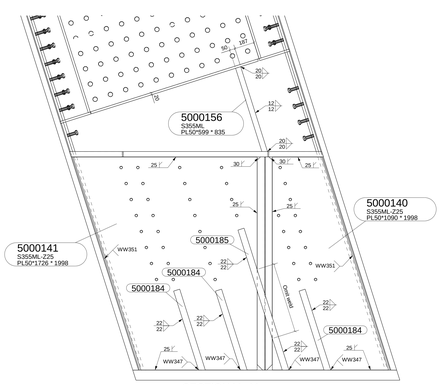


SECTION D - D
1:15

THE HOLES IN THE PLATES 5000170 AND 5000171
MUST BE DRILLED IN ASSEMBLY WITH
THE PYLON HINGE PLATES PyH-19 AND PyH-20
SHOWN DRAWING NWC-VBS-TMP-6739



SECTION K - K
1:15

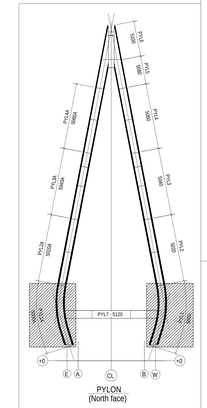


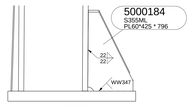
SECTION M - M
1:15

NOTE

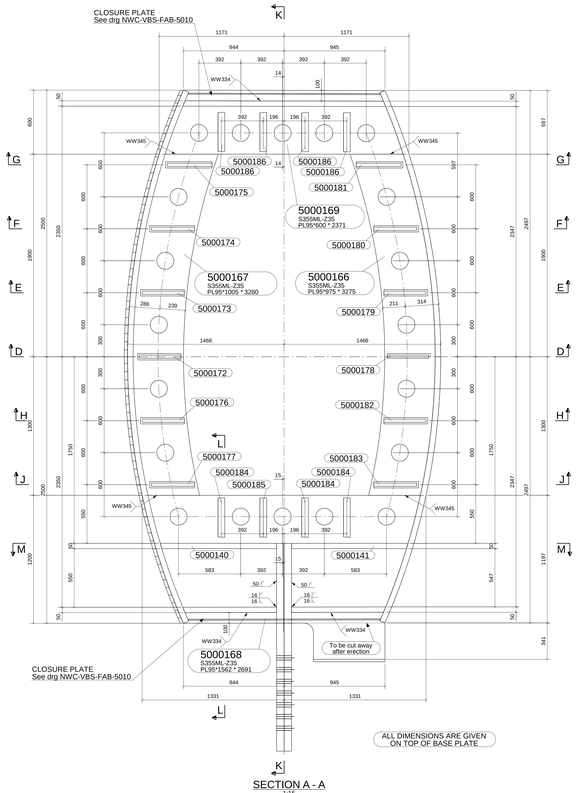
Assembly 5000 - PYL1 : manufactured as designed
Assembly 5000A - PYL1A : manufactured as mirror image

All pieces are designed for the assembly without "A".
The pieces for the assembly with "A" are manufactured as mirror image and "A" is added to the part number.

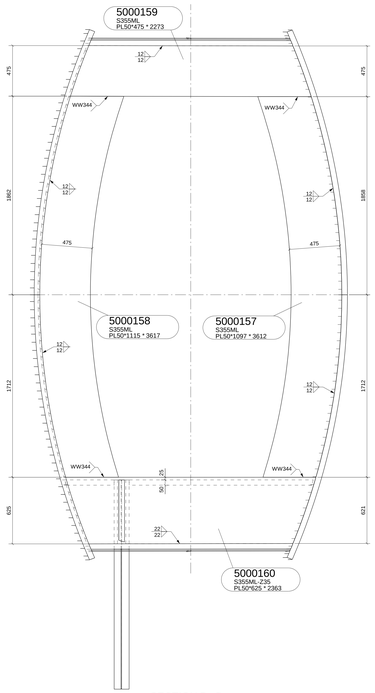




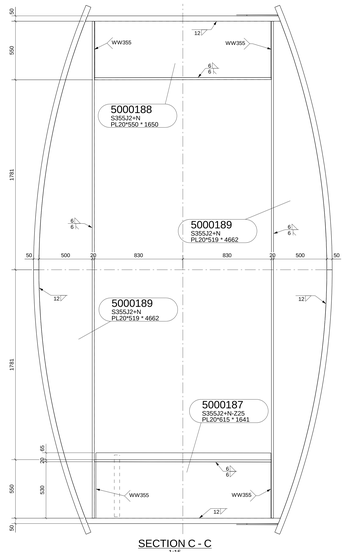
SECTION L - L
1:15



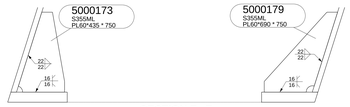
SECTION A - A
1:15



SECTION B - B
1:15



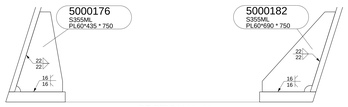
SECTION C - C
1:15



SECTION E - E
1:15

SECTION F - F
1:15

SECTION G - G
1:15



SECTION H - H
1:15

SECTION J - J
1:15

General notes:

(unless indicated otherwise)

Structural steel grades according to EN 10025:

Pylon steelwork:

For plate thickness t, for pylon and pylon cross beam outer plates:
t<25mm S355J2+N; 25<t<30mm S355K2+N; t>30mm S355ML

For plate thickness t, for all other non-cold formed pylon plates:
t<35mm S355J2+N; 35<t<45mm S355K2+N; t>45mm S355ML

For trapezoidal stiffeners: S355J0+C

Deck steelwork:

For plate thickness t, for main girder plates and anchorage console plates:
t<30mm S460M; t>30mm S460ML

For plate thickness t, for cross girder plates:
t<40mm S355J2+N; t>40mm S355M

For all stiffeners: S355J2+N

Z-quality: see indication on drawing
Shear studs: S235J2+N<C450 (diameter and length: see indication on drawing)

Welding:

All outside welds shall form a continuous seal
All weld sizes: number indicates throat size (a=…)

Execution class:

EXC3 according to BS EN 1090-2
EXC4 according to BS EN 1090-2 for cable anchorage consoles, bearing arrangements and pylon base connection (as indicated on drawing)

Rev	Description	Date	By	Chk	APP
C	Issued for construction	08.08.2016	MC	KR	LDP
B	Update : Issued for Review	15.06.2016	MC	KR	LDP
A	First issue - For review	25.04.2016	KB	KR	LDP

Client : Sunderland City Council

Design Joint Venture: BUROHAPPOLD ENGINEERING, explorations architecture, RODD, Straaky, Husky and Partners Ltd., SHP

Contractor Joint Venture: FCC, Ferrovial Agroman, Balfour Beatty Civil Engineering

Project Title:
Sunderland Strategic Transport Corridor
NEW WEAR CROSSING

Drawing Title:
PYLON PART PYL1 + PYL1A
ASSEMBLY PYLON HOLDING DOWN + HINGE

Drawn:	KB	Checked:	KR
Design:	DJV	Approved:	LDP
Date:	25.04.2016	Scale (at A0):	1:15

Drawing No.: NWC-VBS-FAB-5009 Rev: C