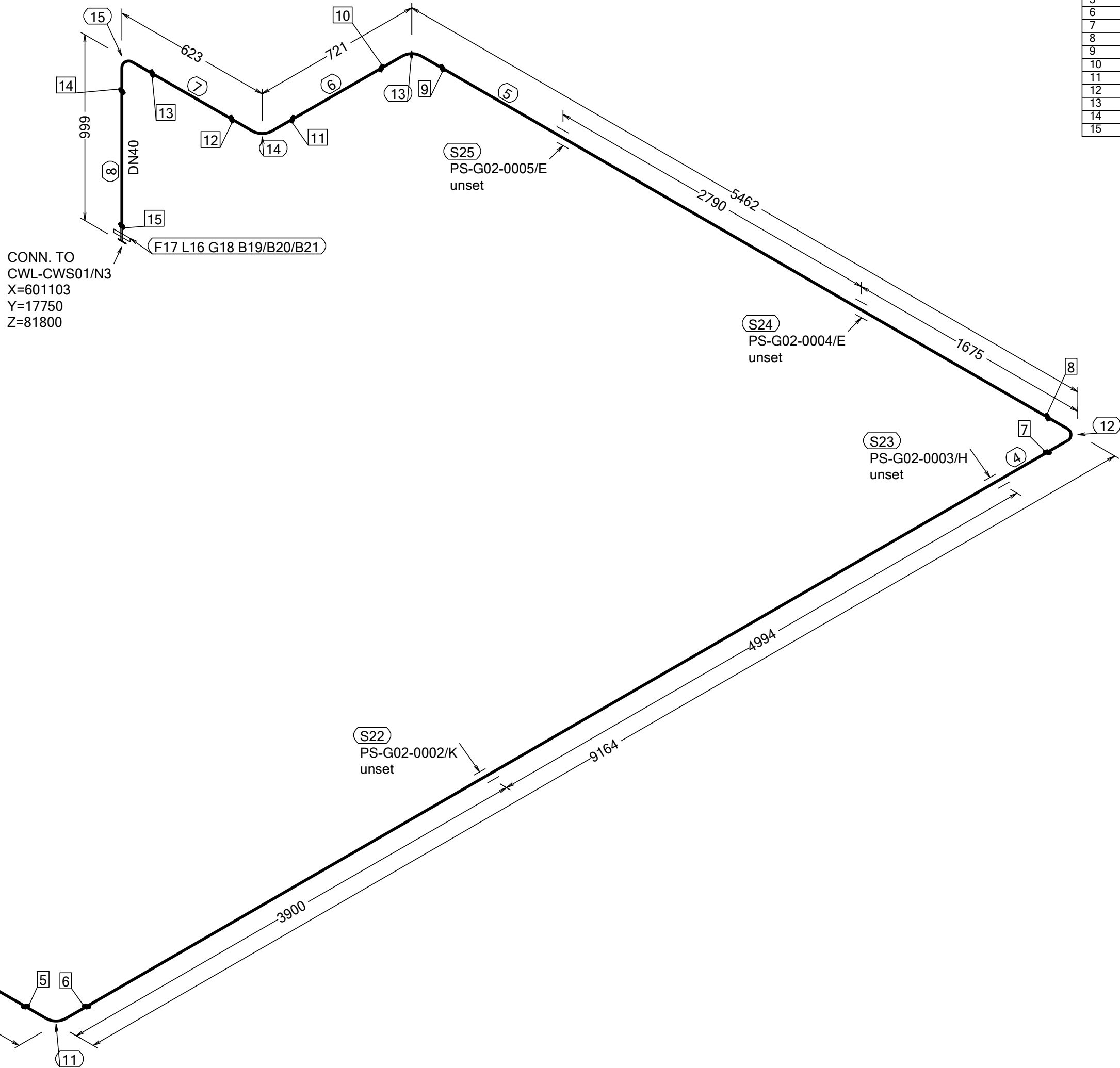


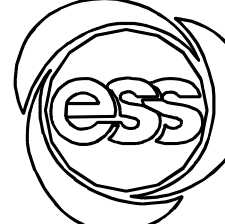
N (Y)



WELD	WPS
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FABRICATION MATERIALS					
PT NO	COMPONENT DESCRIPTION	DN	MATERIAL	QTY (mm)	REMARKS
PIPE					
1	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	242	
2	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	910	
3	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	1751	
4	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	9050	
5	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	5348	
6	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	607	
7	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	509	
8	PIPE, SS-EN 10217-7, TC1, 48.3x2.0	40	EN 1.4404	897	
FITTINGS					
9	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
10	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
11	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
12	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
13	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
14	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
15	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 48.3x2.0	40	EN 1.4404	1	
FLANGES					
16	WELDING RING WITH COLLAR, SS-EN 1092-1 TYPE 35, PN40	40		1	
17	LOOSE FLANGE, SS-EN 1092-1, TYP 02, PN40	40		1	

ERECTION MATERIALS					
PT NO	COMPONENT DESCRIPTION	DN	MATERIAL	QTY (mm)	REMARKS
GASKETS					
18	GASKET, EN 1514-1, TYPE XXX, T=1,5mm	40	EXPANDED GRAPHITE	1	
BOLTS					
19	HEXAGONAL NUT, M6M, ISO 4032	16	EN 1515-4, A4	4	
20	WASHER, BRB, ISO 7089	16	EN 1515-4, HV≥250	8	
21	80 mm HEXAGONAL BOLT, M6S, ISO 4017	16	EN 1515-4, A4-70	4	
SUPPORTS					
22	ESS Atta	40		1	
23	ESS Atta	40		1	
24	ESS Atta	40		1	
25	ESS Atta	40		1	

WPS See Weldlist TBN	Design Temperature 50degC	Tightening Torque For Flange Joints TBN	P&ID Drawing Number ESS-0060416	General Layout Drawing Number TBN	Calculation Report ESS-0058702	Inspection Plan TBN	Area Code G02
Quality Level For Weldign Acc To TBN	Design Pressure 10bar (g)	Bend Radius N/A	Bending Procedure N/A	Coupling Installation Procedure TBN	Pressure Test Program TBN	Alternate System Tag	Date (First Issue) 170522
Weld Joint Efficiency Factor (Longitudinal) 1,0	Test Pressure 14.3bar (g)	Insulation Specification N/A			Title/Name EUROPEAN SPALLATION SOURCE ERIC WATER COOLING SYSTEM CWM DIW SUPPLY FOR FEB ESS.ACC.E02.WP0004		Scale -
Elevation (z) Acc To BCS	Quality Class MQC4-C	Insulation Thickness N/A					Format A2
	Media CWM	Allowance For Corrosion 0					Sheet 1 of 1
	Pipe Specification MQC4-W-PN16	Surface Treatment N/A					Revision A1

Rev	Description	Date	Drawn	Designed	Reviewed	Verified	Quality	Approved
A1	ISSUED FOR CDR	170522	FRPE	FRPE	AKCO	ANLU		