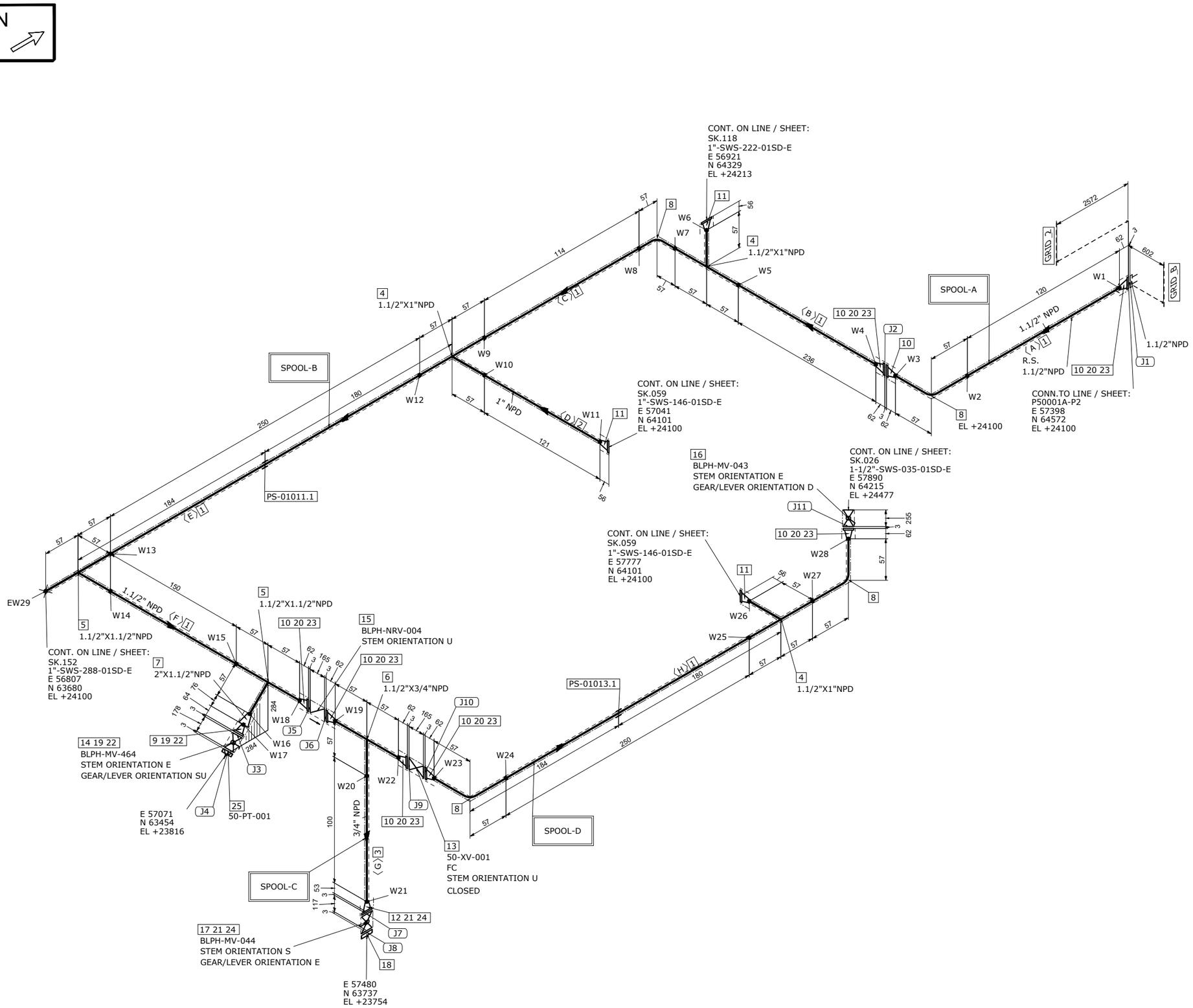


MATERIAL LIST

FABRICATION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
1	1.1/2	PIPESD04761H00	Pipe ASME B36.19M PE 3,68 SML ASTM A790 UNS S32760	1.1M	4.6
2	1	PIPESD02850100	Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760	0.1M	0.3
3	3/4	PIPESD04753Q00	Pipe ASME B36.19M PE 2,87 SML ASTM A790 UNS S32760	0.1M	0.2
4	1.1/2X1	TER0SD09381H01	Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760	3	2.3
5	1.1/2X1.1/2	TEE0SD02931H00	Tee ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760	2	1.7
6	1.1/2X3/4	TER0SD09371H3Q	Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A815 UNS S32760	1	0.8
7	2X1.1/2	REC0SD0803021H	Reducer Concentric ASME B16.9 BW 2,77x3,68 WRS ASTM A815 UNS S32760	1	0.3
8	1.1/2	E90RSD03031H00	90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760	4	1.5
9	2	FLW0SD01250200	Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55	1	2.8
10	1.1/2	FLW0SD02861H00	Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F55	8	14.7
11	1	FLW0SD01240100	Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55	3	4.3
12	3/4	FLW0SD02853Q00	Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F55	1	0.9

ERECTION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
13	1.1/2		ON/OFF Ball Actuator Valve - 150#RF Flanged	1	54.0
14	2	VBC0NN24460200	Ball Valve Split Body FB API 6D FLG 150LB RF BA01F01RF	1	19.2
15	1.1/2	VDRNNN02511H00	Check Valve Piston EN ISO 15761 FLG 150LB RF CH01F02RF	1	0.0
16	1.1/2	VLBLNN01381H00	Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS	1	28.0
17	3/4	VBC0NN24433Q00	Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF	1	7.0
18	3/4	FLB0SD01843Q00	Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F55	1	0.9
19	2	GFL3GK13230200	Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE	2	0.2
20	1.1/2	GFL3GK15981H00	Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE	7	0.4
21	3/4	GFL3GK15963Q00	Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE	2	0.1
22	5/8	SB20BO00660300	85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	1.9
23	1/2	SB20BO00930200	70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	28	3.4
24	1/2	SB20BO01080200	65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	1.0
25	2		Pressure Transmitter	1	2.0

FABRICATION WEIGHT [kg]	34.4
ERECTION WEIGHT [kg]	118.2
OVERALL WEIGHT [kg]	152.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	1.1/2	BW
W2	1.1/2	BW
W3	1.1/2	BW
W4	1.1/2	BW
W5	1.1/2	BW
W6	1	BW
W7	1.1/2	BW
W8	1.1/2	BW
W9	1.1/2	BW
W10	1	BW
W11	1	BW
W12	1.1/2	BW
W13	1.1/2	BW
W14	1.1/2	BW
W15	1.1/2	BW
W16	1.1/2	BW
W17	2	BW
W18	1.1/2	BW
W19	1.1/2	BW
W20	3/4	BW
W21	3/4	BW
W22	1.1/2	BW
W23	1.1/2	BW
W24	1.1/2	BW
W25	1.1/2	BW
W26	1	BW
W27	1.1/2	BW
W28	1.1/2	BW
EW29	1.1/2	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	1.1/2	121	BEVEL	BEVEL
B	1.1/2	236	BEVEL	BEVEL
C	1.1/2	114	BEVEL	BEVEL
D	1	121	BEVEL	BEVEL
E	1.1/2	250	BEVEL	BEVEL
F	1.1/2	150	BEVEL	BEVEL
G	3/4	100	BEVEL	BEVEL
H	1.1/2	250	BEVEL	BEVEL

SUPPORT LIST

PS-01011.1
PS-01013.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	4.5	4.6
B	21.5	16.6
C	4.5	5.5
D	8.5	7.7
MONT	1.5	118.2

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	27-08-2024	STAFF SRL	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 1-1/2"-SWS-031-01SD-E

SK.023

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: STAFF SRL | CHECKED: RT | APPROVED: LM
DATE: 27-08-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00023
SHEET / OF: 1/1
REV.: 00

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3				
PAINTING	SYSTEM N/A	BASE RAL N/A	FLUID PHASE	Liquid				
INSULATION	TYPE H	THICKNESS 20 [mm]	DESIGN	PRESS. 7.6 [barg]	TEMP. -29 / 100 [°C]			
HEAT TRACING	Yes		TEST	PRESS. 11.4 [barg]	TEMP. AMB	MEDIUM Water		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80021
ISOMETRIC SHOP DWG LIST	123A90-FDL-PP-LIS-00001
PIPING SUPPORT BOOK	123A90-DDL-PP-DD-72000
PIPING MATERIAL CLASS	123A90-DDL-PP-SP-70029

NOTES

MASTER