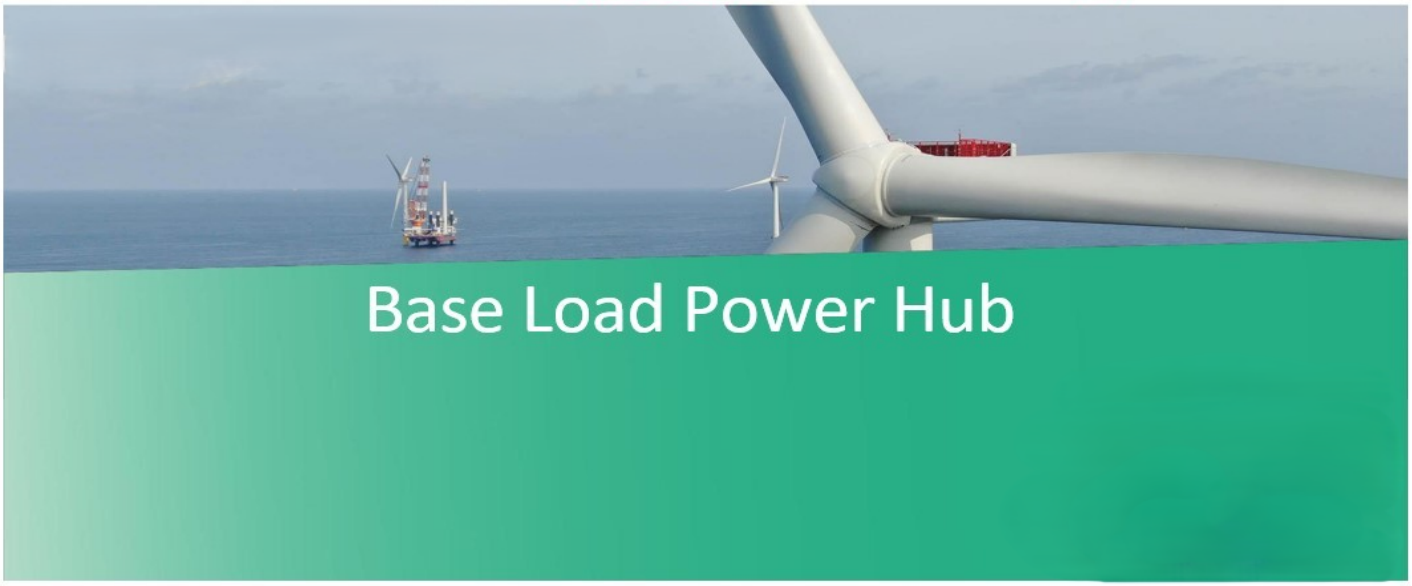
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	56 Open Drain System
SUBSYSTEM	56-11 Non-Hazardous Open Drain Collection

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	56-11	Tick as appropriate	ONSHORE	O
Description:	Non-Hazardous Open Drain Collection		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	O
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	NA
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	NA
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	NA
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	O
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2025-02-27	
System:	56	/	Open Drain System		
SubSystem:	56-11	/	Non-Hazardous Open Drain Collection		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A	B
	'0	5

REMARKS: ONSHORE SOW completed, n. 3 outstanding tasks to be cleared in OFFSHORE phase.

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-02-28	2025-02-28	2025-02-28	2025-02-28
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-02-28T14:56:05.837Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-02-28T15:56:30.891Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-28T16:18:12.686Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-28T16:18:19.178Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 56-11 & process: MC

Piping	56-11 Non-Hazardous Open Drain Collection						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
128-1-J1	Joint 128-1-J1	OFFSHORE	C10003831	TMX27	0	-	-
129-1-J1	Joint 129-1-J1	ONSHORE	C10003832	TMX27	100	2025-02-17	RFC 1
130-1-J1	Joint 130-1-J1	ONSHORE	C10003833	TMX27	100	2025-02-17	RFC 1
131-1-J1	Joint 131-1-J1	ONSHORE	C10003834	TMX27	100	2025-02-18	RFC 1
132-1-J1	Joint 132-1-J1	ONSHORE	C10003835	TMX27	100	2025-02-17	RFC 1
56-11-TP-048	Test Pack 56-11-TP-048	ONSHORE	C10003596	CLX02A	100	2025-02-13	RFC 1
		ONSHORE	C10003597	CLX02B	100	2025-02-21	RFC 1
		ONSHORE	C10003598	CXX02	100	2025-02-21	RFC 1
56-11-TP-102	Test Pack 56-11-TP-102	ONSHORE	C10003724	CLX02A	100	2024-12-05	-
		OFFSHORE	C10003725	CLX02B	0	-	-
		OFFSHORE	C10003726	CXX02	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 56 Open Drain System

SUBSYSTEM 56-11 Non-Hazardous Open Drain Collection

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003792	B	56-11-TP-048 C10003596	Blinds have not been installed.	.		KAlbonetti 2025-02-13	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003793	B	56-11-TP-048 C10003596	PS-02114: On one side there is a wedge, on the other side is too high. On both sides the Teflon is missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003794	B	56-11-TP-048 C10003596	PS-02005: teflon and stoppers are missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003796	B	56-11-TP-048 C10003596	PS-02103.1: Pipe is not touching on structural support and the u-bolt is missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003797	B	56-11-TP-048 C10003596	PS-02100.1: Missing the U-bolt.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003952	B	56-11-TP-048 C10003596	There is an additional support between PS-02105 and PS-02107. See dwg attached.	.		KAlbonetti 2025-02-17			
C30004062	B	56-11-TP-048 C10003598	"Color coding and fluid direction are missing. "	.		LNovaga 2025-02-21			
C30004074	B	56-11-TP-048 C10003597	Support PS-02115 (129 1/2) is between connection with line 4"-DR-267-01CS-N and 4"-DR-268-01CS-N. Implement the isometric	.		LNovaga 2025-02-21			
C30004076	B	56-11-TP-048 C10003597	Penetration level is missing on isometric drawing SK 128, implement with a mark-up. The distance between flange F6 and penetration is 560mm up.	.		LNovaga 2025-02-21			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 56 Open Drain System

SUBSYSTEM 56-11 Non-Hazardous Open Drain Collection

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004077	B	56-11-TP-048 C10003597	On support PS-02102 (SK 132) there is a gap only in one side, please correct the gaps.	.		LNovaga 2025-02-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30004079	B	56-11-TP-048 C10003597	On support PS-02114 (SK 128) - S-222 pad is missing.	.		LNovaga 2025-02-21			

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 56 Open Drain System

SUBSYSTEM 56-11 Non-Hazardous Open Drain Collection

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003792	B	56-11-TP-048 C10003596	Blinds have not been installed.	.		KAlbonetti 2025-02-13	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003793	B	56-11-TP-048 C10003596	PS-02114: On one side there is a wedge, on the other side is too high. On both sides the Teflon is missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003794	B	56-11-TP-048 C10003596	PS-02005: teflon and stoppers are missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003796	B	56-11-TP-048 C10003596	PS-02103.1: Pipe is not touching on structural support and the u-bolt is missing.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003797	B	56-11-TP-048 C10003596	PS-02100.1: Missing the U-bolt.	.		KAlbonetti 2025-02-13	2025-02-21	LNovaga 2025-02-21	2025-02-21
C30003952	B	56-11-TP-048 C10003596	There is an additional support between PS-02105 and PS-02107. See dwg attached.	.	Changes have been recorded on RLMUs	KAlbonetti 2025-02-17	RDegliEsposti 2025-06-25	RDegliEsposti 2025-06-25	2025-06-25
C30004062	B	56-11-TP-048 C10003598	Color coding and fluid direction are missing.	.		LNovaga 2025-02-21	2025-03-20	LNovaga 2025-03-20	2025-03-20
C30004074	B	56-11-TP-048 C10003597	Support PS-02115 (129 1/2) is between connection with line 4"-DR-267-01CS-N and 4"-DR-268-01CS-N. Implement the isometric	.		LNovaga 2025-02-21	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30004076	B	56-11-TP-048 C10003597	Penetration level is missing on isometric drawing SK 128, implement with a mark-up. The distance between flange F6 and penetration is 560mm up.	.		LNovaga 2025-02-21	2025-04-02	LNovaga 2025-04-02	2025-04-02

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 56 Open Drain System

SUBSYSTEM 56-11 Non-Hazardous Open Drain Collection

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004077	B	56-11-TP-048 C10003597	On support PS-02102 (SK 132) there is a gap only in one side, please correct the gaps.	.		LNovaga 2025-02-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30004079	B	56-11-TP-048 C10003597	On support PS-02114 (SK 128) - S-222 pad is missing.	.		LNovaga 2025-02-21	2025-03-06	LNovaga 2025-03-06	2025-03-06

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003952

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

There is an additional support between PS-02105 and PS-02107.
See dwg attached.

Name: Kangi Albonetti
Date: 2025-02-17
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-17
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Changes have been recorded on RLMUs

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

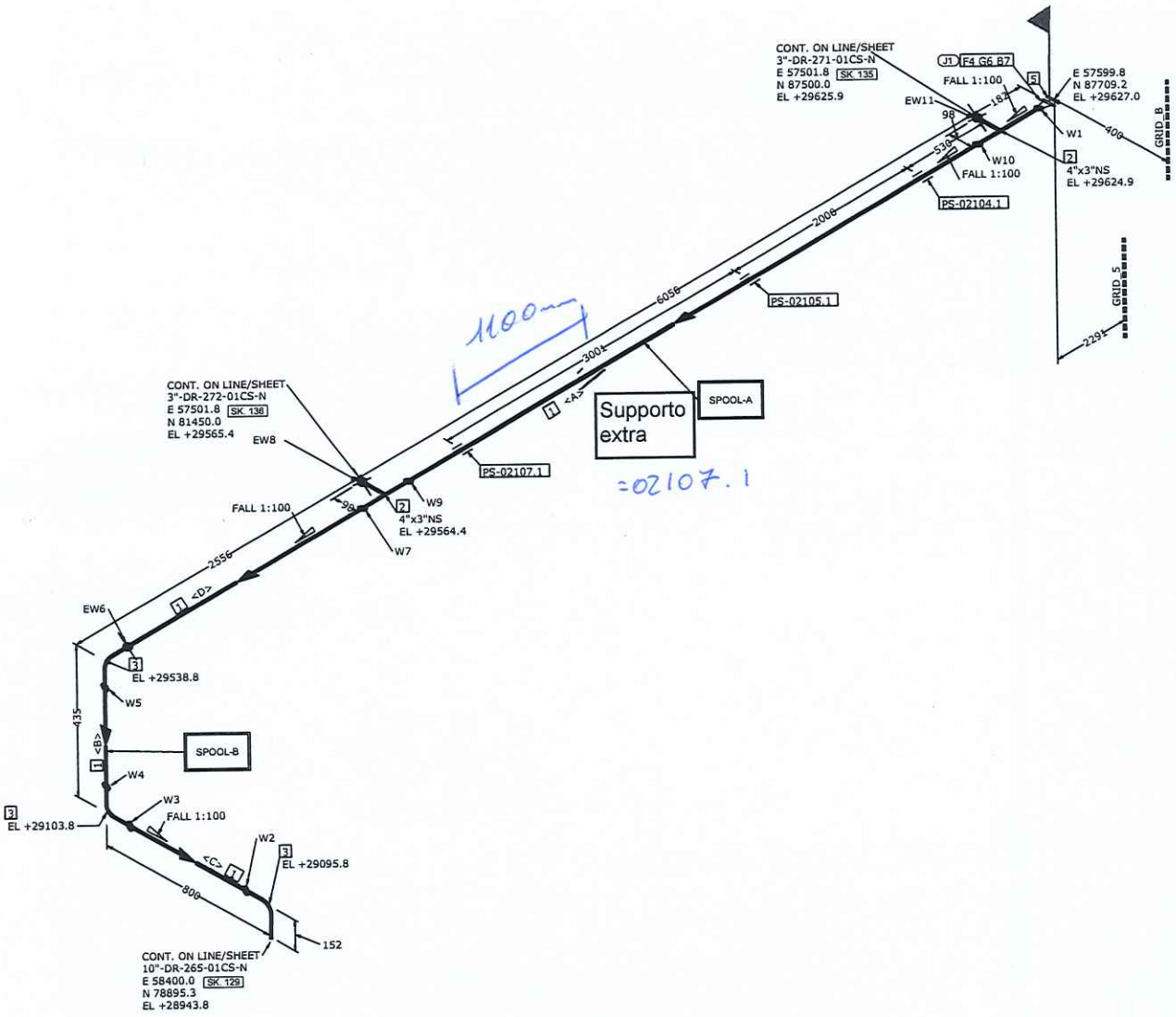
5 - CLEARANCE CHECK

Ref. to RLMU 123A90-DDL-PP-DD-72000-PS-02142_01_01A (NEW SUPPORT) + RLMU 123A90-FDL-PP-DI-00131-01_01A

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-06-25
Signature:



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6.02 SML ASTM/ASME A/SA333 Gr.6	8.8 M	141.0
2	4 x 3	TER0CS15730403	Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	10.4
3	4	E90RCS02380400	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	3	11.7
4	4	FLW0CS03210400	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
ERECTION					
5	4	FLB0CS07390400	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
6	4	GSW0GK11150400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.2
7	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	2.0

FABRICATION WEIGHT [kg]	169.9
ERECTION WEIGHT [kg]	9.0
OVERALL WEIGHT [kg]	178.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4"	BW
W2	4"	BW
W3	4"	BW
W4	4"	BW
W5	4"	BW
EW6	4"	BW
W7	4"	BW
EW8	3"	BW
W9	4"	BW
W10	4"	BW
EW11	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4"	5840	BEVEL	BEVEL
B	4"	131	BEVEL	BEVEL
C	4"	496	BEVEL	BEVEL
D	4"	2299	BEVEL	BEVEL

SUPPORT LIST

PS-02104.1
PS-02105.1
PS-02107.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	16.0	148.1
B	16.0	21.8
ERECT.	10.0	9.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-09-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC — SK. 131

LINE NR. 4"-DR-267-01CS-N

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE: N/A

DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024

FORMAT: A3 | DRAWING NO: 123A90-FDL-PP-DI-00131 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3			
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid			
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004062

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003598	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-03-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004074

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003597	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

Support PS-02115 (129 1/2) is between connection with line 4"-DR-267-01CS-N and 4"-DR-268-01CS-N. Implement the isometric drawing with mark up.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-21
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Document marked-up.

Name: Lorenzo Novaga

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004076

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003597	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

Penetration level is missing on isometric drawing SK 128, implement with a mark-up.
The distance between flange F6 and penetration is 560mm up.

Name: Lorenzo Novaga
Date: 2025-02-21
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-21
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document marked-up.

Name: Lorenzo Novaga
Date: 2025-04-02
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004077

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003597	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

On support PS-02102 (SK 132) there is a gap only in one side, please correct the gaps.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004079

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003597	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

On support PS-02114 (SK 128) - S-222 pad is missing.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Accepted by Rosetti Marino.

Name: Lorenzo Novaga

Date: 2025-03-06

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003792

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

Blinds have not been installed.

Name: Kangi Albonetti

Date: 2025-02-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003793

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

PS-02114: On one side there is a wedge, on the other side is too high. On both sides the Teflon is missing.

Name: Kangi Albonetti

Date: 2025-02-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003794

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

PS-02005: teflon and stoppers are missing.

Name: Kangi Albonetti

Date: 2025-02-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003796

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

PS-02103.1: Pipe is not touching on structural support and the u-bolt is missing.

Name: Kangi Albonetti

Date: 2025-02-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003797

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003596	1.4 Discipline	Piping
1.2 Item	56-11-TP-048	Test Pack 56-11-TP-048	
1.3 Subsystem	56-11	Non-Hazardous Open Drain Collection	

2 - OBSERVATION

PS-02100.1: Missing the U-bolt.

Name: Kangi Albonetti

Date: 2025-02-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

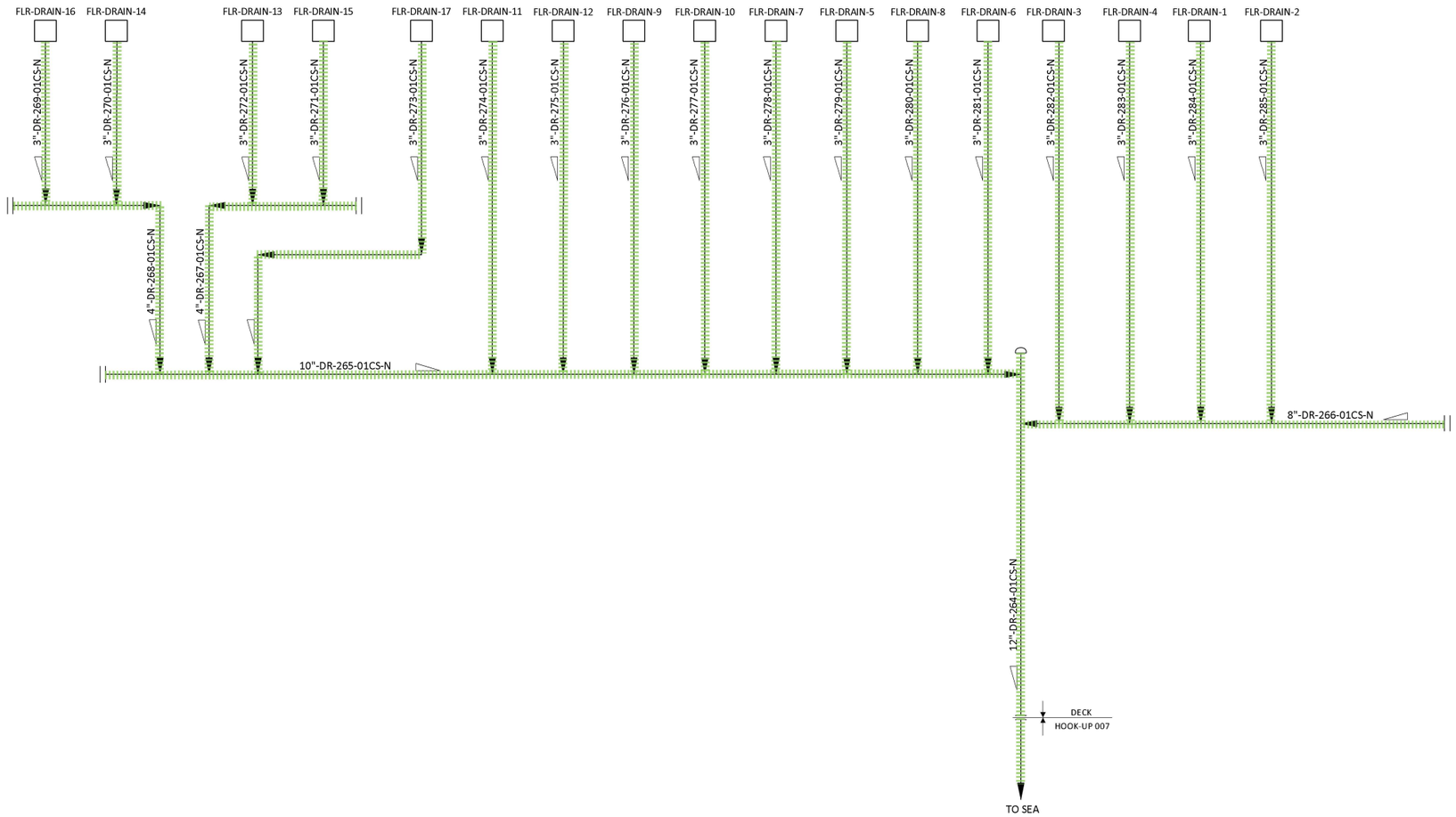
Signature:

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

DRAWING NO. DRAWING_NO.

REV. REV

Open Drain System SS 56-11



NOTES

1. ALL HEADERS ARE BELOW THE UPPER DECK. 01

HOLDS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/06/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
OPEN DRAIN SYSTEM

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE NTS
DRAWN	CHECKED	APPROVED	DATE

A1	DRAWING NO. 123A90-DDL-PR-PID-80043	SHEET 001	REV. 01

File Name : FILE_NAME

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

NOT APPLICABLE

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 56-11 & process: MC & discipline : P

Piping	56-11 Non-Hazardous Open Drain Collection						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
128-1-J1	Joint 128-1-J1	OFFSHORE	C10003831	TMX27	0	-	-
129-1-J1	Joint 129-1-J1	ONSHORE	C10003832	TMX27	100	2025-02-17	RFC 1
130-1-J1	Joint 130-1-J1	ONSHORE	C10003833	TMX27	100	2025-02-17	RFC 1
131-1-J1	Joint 131-1-J1	ONSHORE	C10003834	TMX27	100	2025-02-18	RFC 1
132-1-J1	Joint 132-1-J1	ONSHORE	C10003835	TMX27	100	2025-02-17	RFC 1
56-11-TP-048	Test Pack 56-11-TP-048	ONSHORE	C10003596	CLX02A	100	2025-02-13	RFC 1
		ONSHORE	C10003597	CLX02B	100	2025-02-21	RFC 1
		ONSHORE	C10003598	CXX02	100	2025-02-21	RFC 1
56-11-TP-102	Test Pack 56-11-TP-102	ONSHORE	C10003724	CLX02A	100	2024-12-05	-
		OFFSHORE	C10003725	CLX02B	0	-	-
		OFFSHORE	C10003726	CXX02	0	-	-

ITEM	Tag	56-11-TP-048	: Test Pack 56-11-TP-048		Dwg	123A90-DDL-PR-PID-80043	
	S/Sys	56-11	: Non-Hazardous Open Drain Collection		Module	LD	
TASK	code	C10003596	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity PIP	Discipline Piping	Form	CLX02A	Pipework Before Test

1	Check for each line of the Test Pack the NDT clearance.	OK
2	Confirm that materials conforms to the line specifications (ref. to the last issued revision of the isometric material table)	OK
3	Check the installation of all pipe – supports are in accordance with the specifications and drawings.	PL
4	Check that pipework at pump and vessel nozzles are free from spring.	NA
5	Check that the pipe flanges have been mounted square to each other. Also that the bolting and gaskets are correct (all TMX27 are complete, if necessary).	PL
6	Check bolt tightening and flange management (excluded battery limit joints).	PL
7	Check that the flow direction of the valves and check – valve is in the correct sense / direction (ball valves to be set at half open).	NA
8	Check that the removed equipment is in accordance with the agreed list of fragile devices. Check valve should be removed or flappers locked.	NA
9	Check that spool pieces or other substitution means have been put in place instead of the removed fragile device.	NA
10	Check the Blind list.	PL
11	Check that all the temporary material to perform the task are conforms to the procedure & suitable pressure rating.	NA
12	If required produce Red Line Mark Up for "AS BUILT".	

Comments: Points 5,6 and 10: Blinds missing.

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Kangi Albonetti	
Date	2025-01-24	2025-02-13	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-01-24T07:05:38.989Z	PROVERLIS Digitaly signed by Kangi Albonetti 2025-02-13T13:52:36.936Z	

Base Load Power Hub (BLPH)

TEST PACK

N°56-11-TP-048
SUB-SYSTEM N° 56-11

System	56
Sub-System	56-11
Test Pressure	N/A
Test Fluid	N/A
Test Duration	N/A

Rev.	Date	Prepared by	Checked by
0	27/09/2024	J.Q.	L.M.

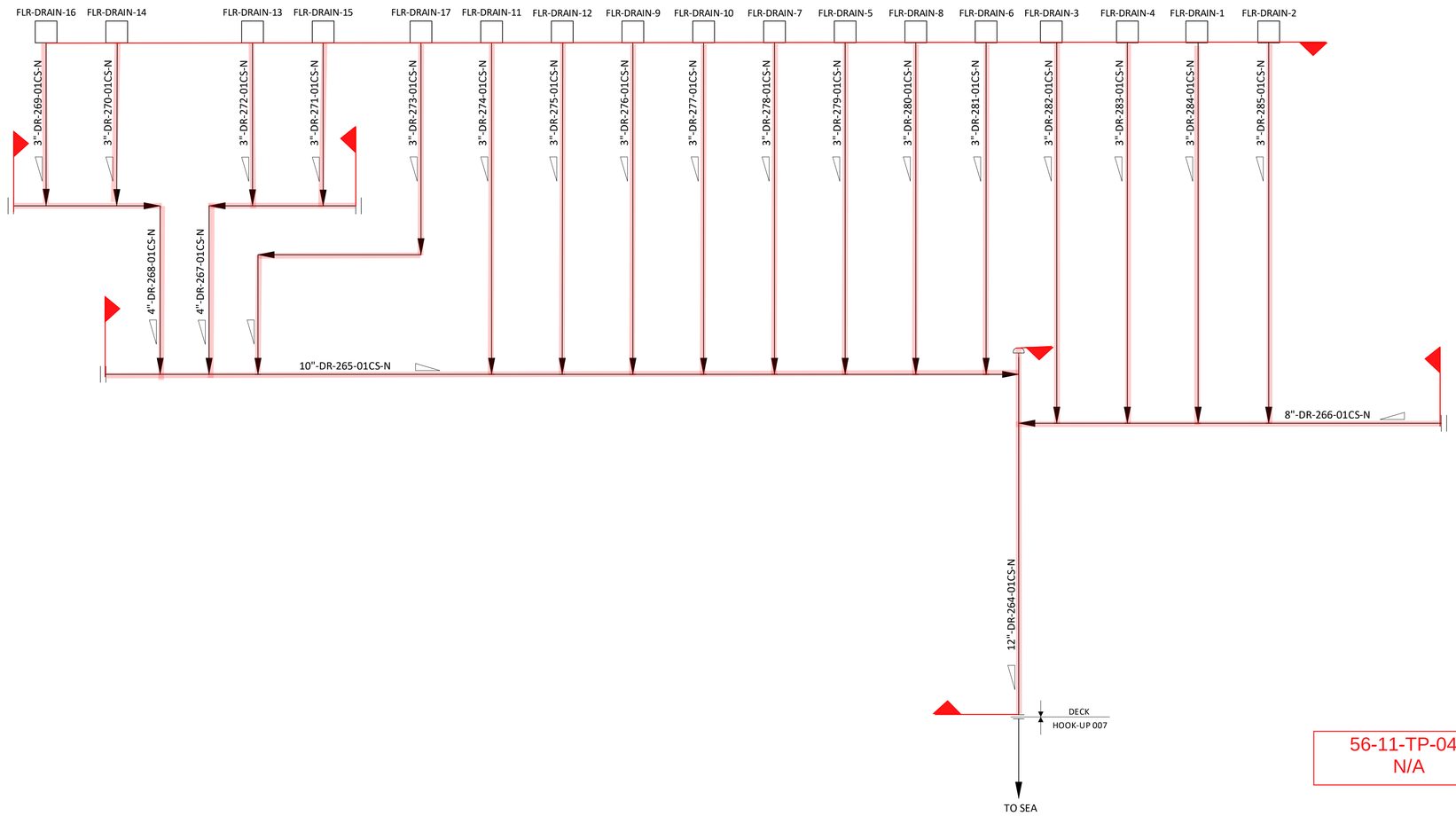
List of Contents

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2. PIPING TEST 3D CIRCUIT
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4. EXTRACT OF LINE LIST
5. ISOMETRIC RED-MARKED DRAWINGS & EXTRACT OF ISO LIST
6. EXTRACT OF SUPPORT LIST AND DETAILS
7. WELDING REGISTER & MATERIAL TRACEABILITY RECORD
8. PIPING & VESSEL PRE-COMMISSIONING CONFORMITY CHECKS & TESTS:
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   - 8.2 CLX02B - Pipework After Test
   - 8.3 CXX01 - Thermal insulation – NOT APPLICABLE
   - 8.4 CXX02 – Painting Line
   - 8.5 TMX03 – Cleaning– NOT APPLICABLE
   - 8.6 TMX05 – Pressure test– NOT APPLICABLE
   - 8.7 TMX25 – Gross Air Leak Test– NOT APPLICABLE
   - 8.8 TMX27 – Bolt Tensioning / Torquing
   - 8.9 TPLX05 - Drying– NOT APPLICABLE

1. COLOURED MARKED P&IDs

DRAWING NO. DRAWING_NO.

REV. REV



56-11-TP-048
N/A

NOTES

1. ALL HEADERS ARE BELOW THE UPPER DECK. 01

HOLDS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/06/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

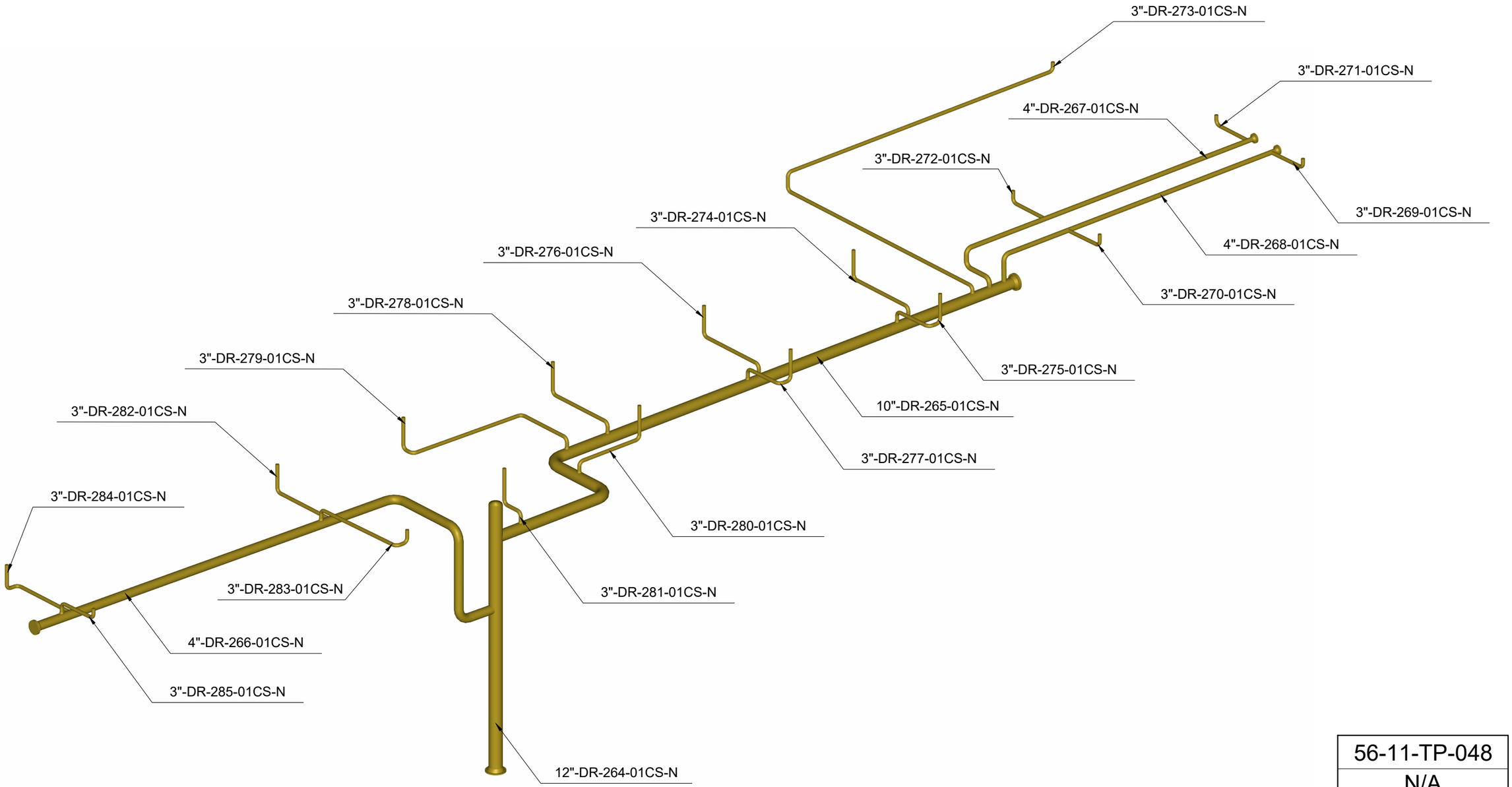
TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
OPEN DRAIN SYSTEM

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE NTS
DRAWN	CHECKED	APPROVED	DATE

A1	DRAWING NO. 123A90-DDL-PR-PID-80043	SHEET 001	REV. 01

File Name : FILE_NAME

2. HYDROSTATIC TEST 3D CIRCUIT



56-11-TP-048

N/A

NOTES

- MANUAL VALVES MAY BE EXCLUDED FROM THE TEST
- ALL INSTRUMENTS (PG, TT, etc.) SHALL BE EXCLUDED FROM THE TEST
- ALL INSTRUMENT VALVES (SDV, PCV, etc.) SHALL BE EXCLUDED FROM THE TEST
- FILLING POINT, VENTS & DRAINS SHALL BE DEFINED ON SITE AS FOR REAL TEST CIRCUIT CONFIGURATION

REV.	DATE	DESCRIPTION	DRN	CHKD	APPD
00	27-09-24	ISSUED FOR INFORMATION	J.Q.	T.L.	L.M.

CROSSWIND

ROSETTI MARINO

HOLLANDSE KUST NOORD WIND PARK

PIPING TEST 3D CIRCUIT
56-11-TP-048

FORMAT	SCALE	DRAWING N.	REV.	SHEET
A3	NTS	N/A	00	1 OF 1

3. MATERIAL LIST FOR TEST

NOT APPLICABLE

4. EXTRACT OF LINE LIST

Isometric N°	Short Line N°	Sequential Number	Size [in]	Piping Class	Insulation Type	Pipe Wall Thicknes [mm]	Pipe Schedule	Tracing	Line Number	PID Number	Design Pressure [barg]	Commissioning System Code	Commissioning SubSystem Code	Test Pack N°	Test Fluid	Test Pressure [barg]	Fluid Service	Class Base Material	Line INF/SUP/TL	Ped Category	Painting System	Line Base Ral
128	DR-264	264	12	01CS	N	6,35	20	N/A	12"-DR-264-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048/TP-102	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
129	DR-265	265	10	01CS	N	6,35	20	N/A	10"-DR-265-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
130	DR-266	266	8	01CS	N	6,35	20	N/A	8"-DR-266-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
131	DR-267	267	4	01CS	N	6,02	40	N/A	4"-DR-267-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
132	DR-268	268	4	01CS	N	6,02	40	N/A	4"-DR-268-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
133	DR-269	269	3	01CS	N	5,49	40	N/A	3"-DR-269-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
134	DR-270	270	3	01CS	N	5,49	40	N/A	3"-DR-270-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
135	DR-271	271	3	01CS	N	5,49	40	N/A	3"-DR-271-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
136	DR-272	272	3	01CS	N	5,49	40	N/A	3"-DR-272-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
137	DR-273	273	3	01CS	N	5,49	40	N/A	3"-DR-273-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
138	DR-274	274	3	01CS	N	5,49	40	N/A	3"-DR-274-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
139	DR-275	275	3	01CS	N	5,49	40	N/A	3"-DR-275-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
140	DR-276	276	3	01CS	N	5,49	40	N/A	3"-DR-276-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
141	DR-277	277	3	01CS	N	5,49	40	N/A	3"-DR-277-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
142	DR-278	278	3	01CS	N	5,49	40	N/A	3"-DR-278-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
143	DR-279	279	3	01CS	N	5,49	40	N/A	3"-DR-279-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
144	DR-280	280	3	01CS	N	5,49	40	N/A	3"-DR-280-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
145	DR-281	281	3	01CS	N	5,49	40	N/A	3"-DR-281-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
146	DR-282	282	3	01CS	N	5,49	40	N/A	3"-DR-282-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
147	DR-283	283	3	01CS	N	5,49	40	N/A	3"-DR-283-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
148	DR-284	284	3	01CS	N	5,49	40	N/A	3"-DR-284-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002
149	DR-285	285	3	01CS	N	5,49	40	N/A	3"-DR-285-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002

5. ISOMETRIC RED MARKED DRAWING & EXTRACT OF ISO LIST

CROSSWIND

ROSETTI MARINO

PROJECT

BASE LOAD POWER HUB (BLPH)

JOB **123A90**

DOCUMENT NR **123A90-FDL-ST-LIS-00001**

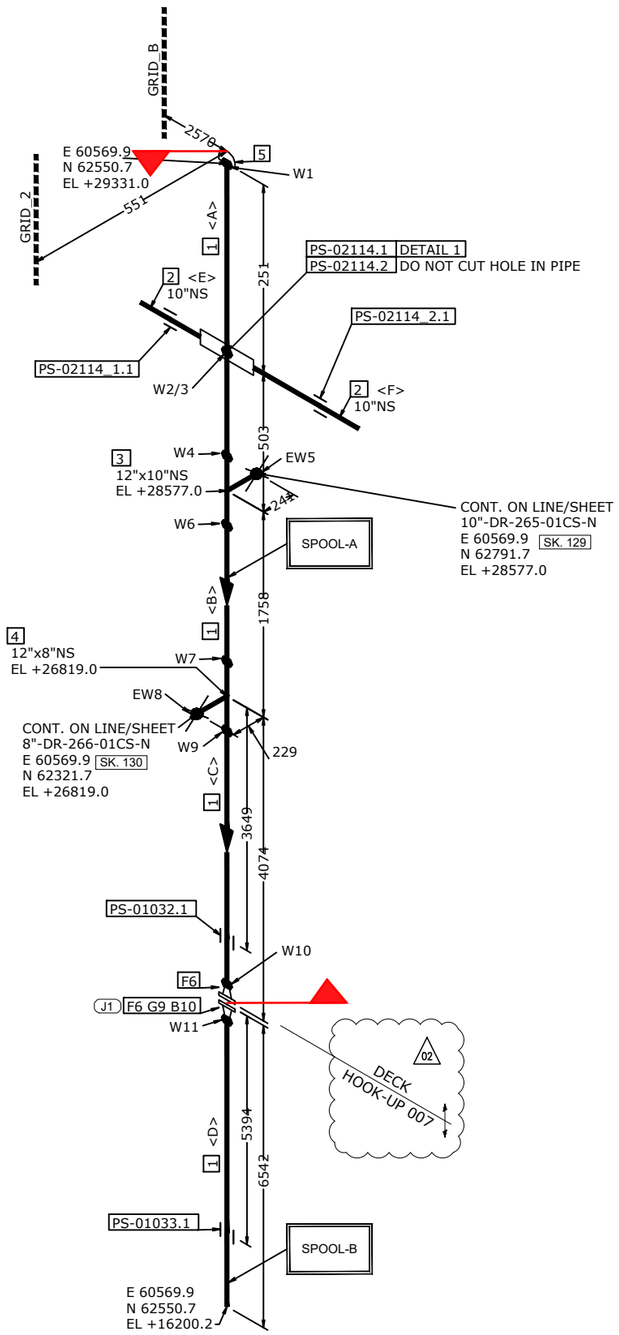
REV. **05**

TITLE

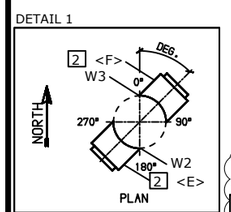
SHOP DRAWING ISOMETRIC LIST

DATE **17/09/2024**

POS.	DOCUMENT NR	ROSETTI SKETCH NR	SHEET	DOCUMENT TITLE	Rev. 00	Rev. 01	Rev. 02	Rev. 03	Rev. 04	Rev. 05	Rev. 06	Rev. 07	Rev. 08	Rev. 09	Rev. 10	Mark-up Rev.	Mark-up Data	LAST REV	LIST REV	NOTES	TEST PACK NR
164	123A90-FDL-PP-DI-00128-01	**128**	01	SHOP DRAWING ISOMETRIC - LINE NR 12"-DR-264-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**	**HOOK-UP 007 (SPOOL B)**	**TP-048/TP-102**
165	123A90-FDL-PP-DI-00129-01	**129**	01	SHOP DRAWING ISOMETRIC - LINE NR 10"-DR-265-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
166	123A90-FDL-PP-DI-00129-02	**129**	02	SHOP DRAWING ISOMETRIC - LINE NR 10"-DR-265-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
167	123A90-FDL-PP-DI-00130-01	**130**	01	SHOP DRAWING ISOMETRIC - LINE NR 8"-DR-266-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
168	123A90-FDL-PP-DI-00131-01	**131**	01	SHOP DRAWING ISOMETRIC - LINE NR 4"-DR-267-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
169	123A90-FDL-PP-DI-00132-01	**132**	01	SHOP DRAWING ISOMETRIC - LINE NR 4"-DR-268-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
170	123A90-FDL-PP-DI-00133-01	**133**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-269-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**
171	123A90-FDL-PP-DI-00134-01	**134**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-270-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
172	123A90-FDL-PP-DI-00135-01	**135**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-271-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**
173	123A90-FDL-PP-DI-00136-01	**136**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-272-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
174	123A90-FDL-PP-DI-00137-01	**137**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-273-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
175	123A90-FDL-PP-DI-00138-01	**138**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-274-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
176	123A90-FDL-PP-DI-00139-01	**139**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-275-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
177	123A90-FDL-PP-DI-00140-01	**140**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-276-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
178	123A90-FDL-PP-DI-00141-01	**141**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-277-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
179	123A90-FDL-PP-DI-00142-01	**142**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-278-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
180	123A90-FDL-PP-DI-00143-01	**143**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-279-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
181	123A90-FDL-PP-DI-00144-01	**144**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-280-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
182	123A90-FDL-PP-DI-00145-01	**145**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-281-01CS-N	04/06/2024	03/09/2024												**01**	**04**		**TP-048**
183	123A90-FDL-PP-DI-00146-01	**146**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-282-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**
184	123A90-FDL-PP-DI-00147-01	**147**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-283-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**
185	123A90-FDL-PP-DI-00148-01	**148**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-284-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**
186	123A90-FDL-PP-DI-00149-01	**149**	01	SHOP DRAWING ISOMETRIC - LINE NR 3"-DR-285-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**		**TP-048**



DETAIL 1



S-222-B-10"-6.35-469-515-90

SPOOL-B ONLY 02

HOOK-UP 007

MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	12	PIPECS10401200	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	11.9 M	590.6
2	10	PIPECS10391000	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	1.1 M	42.3
3	12 x 10	TER0CS26531210	Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	42.0
4	12 x 8	TER0CS26491208	Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	42.0
5	12	CAP0CS06421200	Cap ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	10.0
6	12	FLW0CS16601200	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	2	72.0
ERECTION					
9	10	GSW0GK11291200	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.1
10	7/8	SB20BO04290500	125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	12	8.0

FABRICATION WEIGHT [kg]	798.9
ERECTION WEIGHT [kg]	8.1
OVERALL WEIGHT [kg]	807.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	12"	BW
W2	10"	TRN
W3	10"	TRN
W4	12"	BW
EW5	10"	BW
W6	12"	BW
W7	12"	BW
EW8	8"	BW
W9	12"	BW
W10	12"	BW
W11	12"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	12"	500	BEVEL	BEVEL
B	12"	1250	BEVEL	BEVEL
C	12"	3706	BEVEL	BEVEL
D	12"	6428	BEVEL	SQ.CUT
E	10"	506	SHAPED	SQ.CUT
F	10"	506	SHAPED	SQ.CUT

SUPPORT LIST

PS-01032.1
PS-01033.1
PS-02114.1
PS-02114.2
PS-02114_1.1
PS-02114_2.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	92.0	443.4
B	12.0	355.5
ERECT.	18.0	8.1

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 12"-DR-264-01CS-N

SK. 128

CONTRACT NO./ TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	N/A
DRAWN	RM	CHECKED	RT	APPROVED	LM
DATE	17-09-2024				
FORMAT	A3	DRAWING NO.	123A90-FDL-PP-DI-00128	SHEET / OF	1 / 1
REV.	02				

56-11-TP-048

MASTER

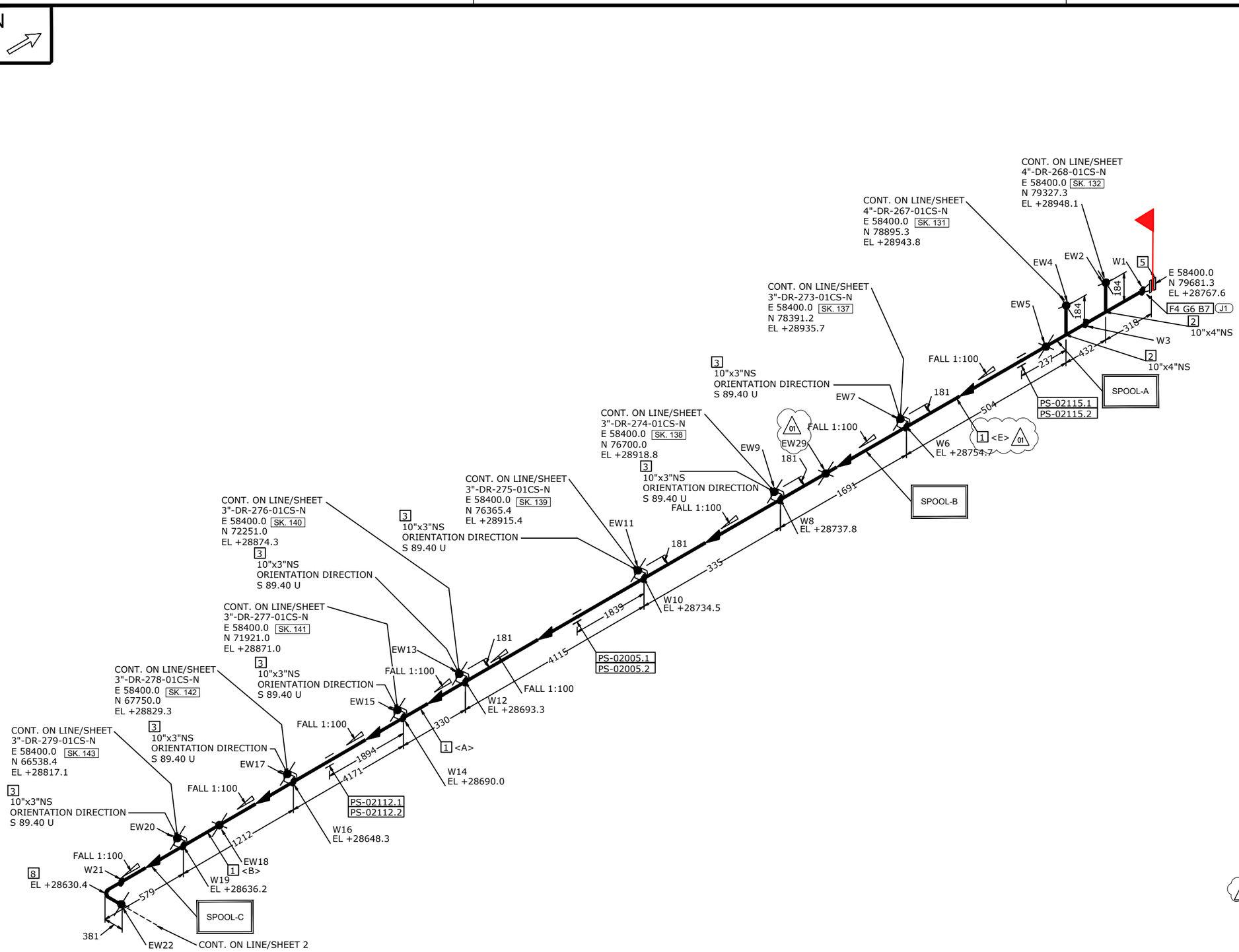
LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	Art. 4, par. 3				
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	10	PIPECS10391000	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	12.4 M	515.5
2	10 x 4	TER0CS26351004	Tee Reducing ASME B16.9 BW 6,35x6,02 WRS ASTM/ASME A/SA420 Gr.WPL6	2	56.1
3	10 x 3	OWELCS26851003	Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2	7	12.6
4	10	FLW0CS16591000	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	24.0
8	10	FLW0CS16591000	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	25.3
ERECTION					
5	10	FLB0CS07911000	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	24.0
6	10	GSW0GK11181000	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.6
7	7/8	SB20BO22250500	120 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	12	7.8

FABRICATION WEIGHT [kg]	633.5
ERECTION WEIGHT [kg]	32.4
OVERALL WEIGHT [kg]	665.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	10"	BW
EW2	4"	BW
W3	10"	BW
EW4	4"	BW
EW5	10"	BW
W6	3"	LET
EW7	3"	BW
W8	3"	LET
EW9	3"	BW
W10	3"	LET
EW11	3"	BW
W12	3"	LET
EW13	3"	BW
W14	3"	LET
EW15	3"	BW
W16	3"	LET
EW17	3"	BW
EW18	10"	BW
W19	3"	LET
EW20	3"	BW
W21	10"	BW
EW22	10"	BW
01 EW29	10"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	10"	10469	BEVEL	BEVEL
B	10"	581	BEVEL	BEVEL
E	10"	1290	BEVEL	BEVEL

01

SUPPORT LIST

PS-02115.1
PS-02115.2
PS-02005.1
PS-02005.2
PS-02112.1
PS-02112.2

SPOOL	WELD [inches]	WEIGHT [kg]
A	20.0	80.1
B	18.0	503.7
C	13.0	49.7
01		
ERECT.	69.0	32.4

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 10"-DR-265-01CS-N
SK. 129

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00129
SHEET / OF: 1 / 2
REV.: 01

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01 Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

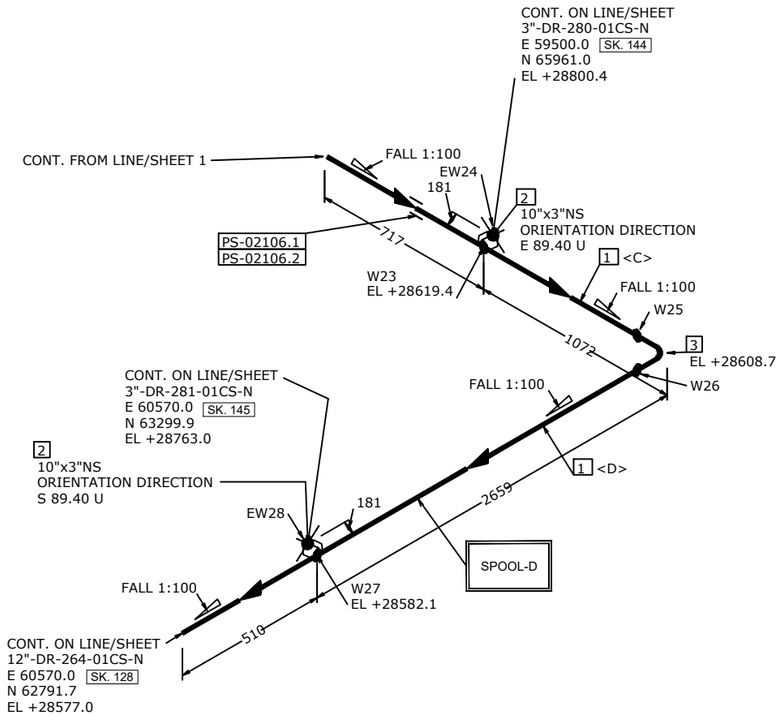
REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

MASTER



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	10	PIPECS10391000	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	4.2 M	175.2
2	10 x 3	OWELCS26851003	Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2	2	3.6
8	10	FLW0CS16591000	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	25.3

FABRICATION WEIGHT [kg]	204.1
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	204.1

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W23	3"	LET
EW24	3"	BW
W25	10"	BW
W26	10"	BW
W27	3"	LET
EW28	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
C	10"	1408	BEVEL	BEVEL
D	10"	2788	BEVEL	BEVEL

SUPPORT LIST

PS-02106.1
PS-02106.1

SPOOL	WELD [inches]	WEIGHT [kg]
D	26.0	204.1
ERECT.	6.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 10"-DR-265-01CS-N
SK. 129

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00129 | SHEET / OF: 2 / 2 | REV.: 01

56-11-TP-048

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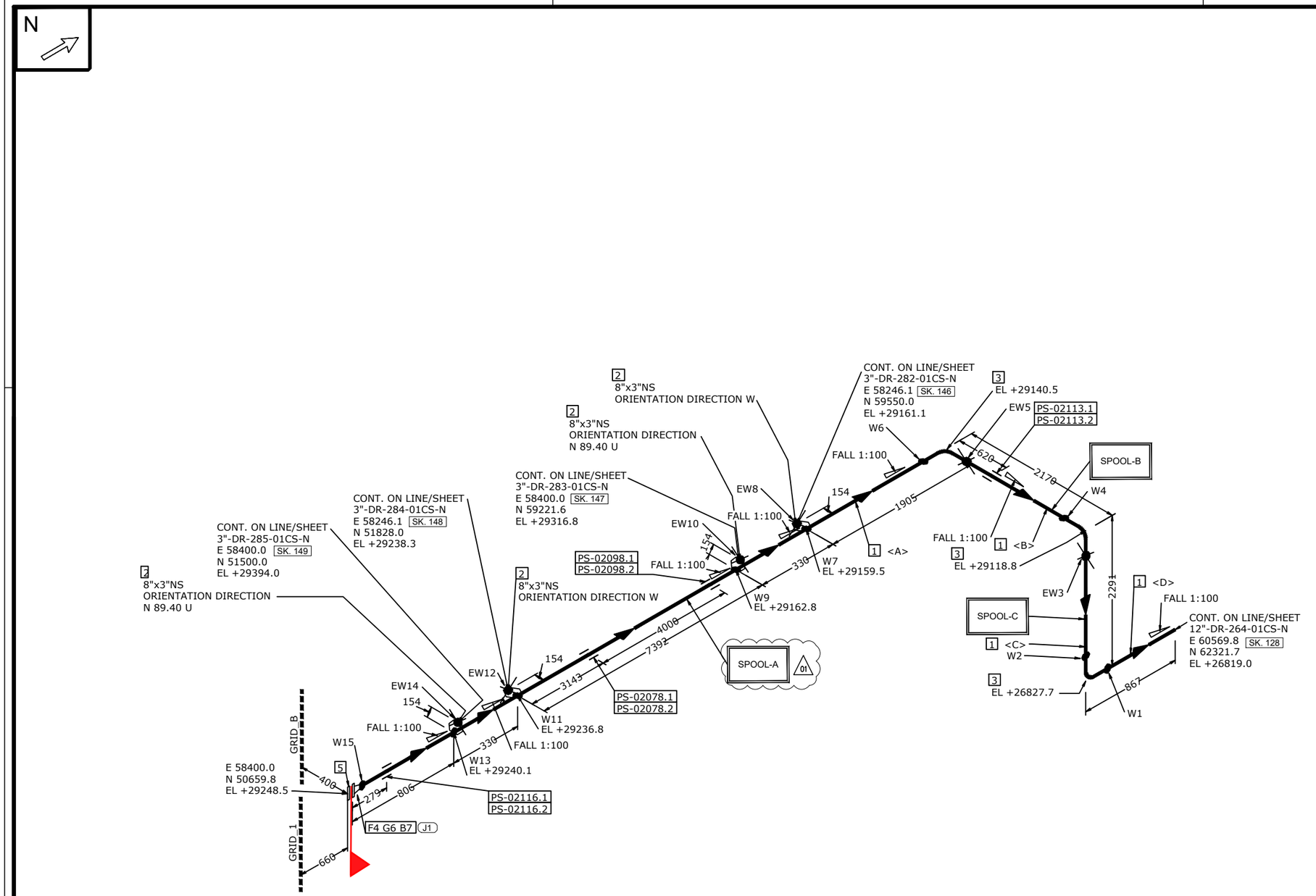
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE		Liquid			
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	8	PIPECS10380800	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	14.2 M	471.8
2	8 x 3	OWELCS26640803	Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2	4	7.2
3	8	E90RCS06460800	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	3	47.6
4	8	FLW0CS16580800	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	18.0
ERECTION					
5	8	FLB0CS01010800	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	18.0
6	8	GSW0GK11170800	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.5
7	3/4	SB20BO00700400	110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	3.4

FABRICATION WEIGHT [kg]	544.6
ERECTION WEIGHT [kg]	21.9
OVERALL WEIGHT [kg]	566.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	8"	BW
W2	8"	BW
EW3	8"	BW
W4	8"	BW
EW5	8"	BW
W6	8"	BW
W7	3"	LET
EW8	3"	BW
W9	3"	LET
EW10	3"	BW
W11	3"	LET
EW12	3"	BW
W13	3"	LET
EW14	3"	BW
W15	8"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	8"	10356	BEVEL	BEVEL
B	8"	1560	BEVEL	BEVEL
C	8"	1681	BEVEL	BEVEL
D	8"	562	BEVEL	BEVEL

SUPPORT LIST

PS-02116.1
PS-02116.2
PS-02078.1
PS-02078.2
PS-02098.1
PS-02098.2
PS-02113.1
PS-02113.2

SPOOL	WELD [inches]	WEIGHT [kg]
A	28.0	386.1
B	8.0	67.9
C	16.0	90.6
ERECT.	28.0	21.9

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 8"-DR-266-01CS-N
SK. 130

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00130
SHEET / OF: 1 / 1
REV.: 01

56-11-TP-048

MASTER

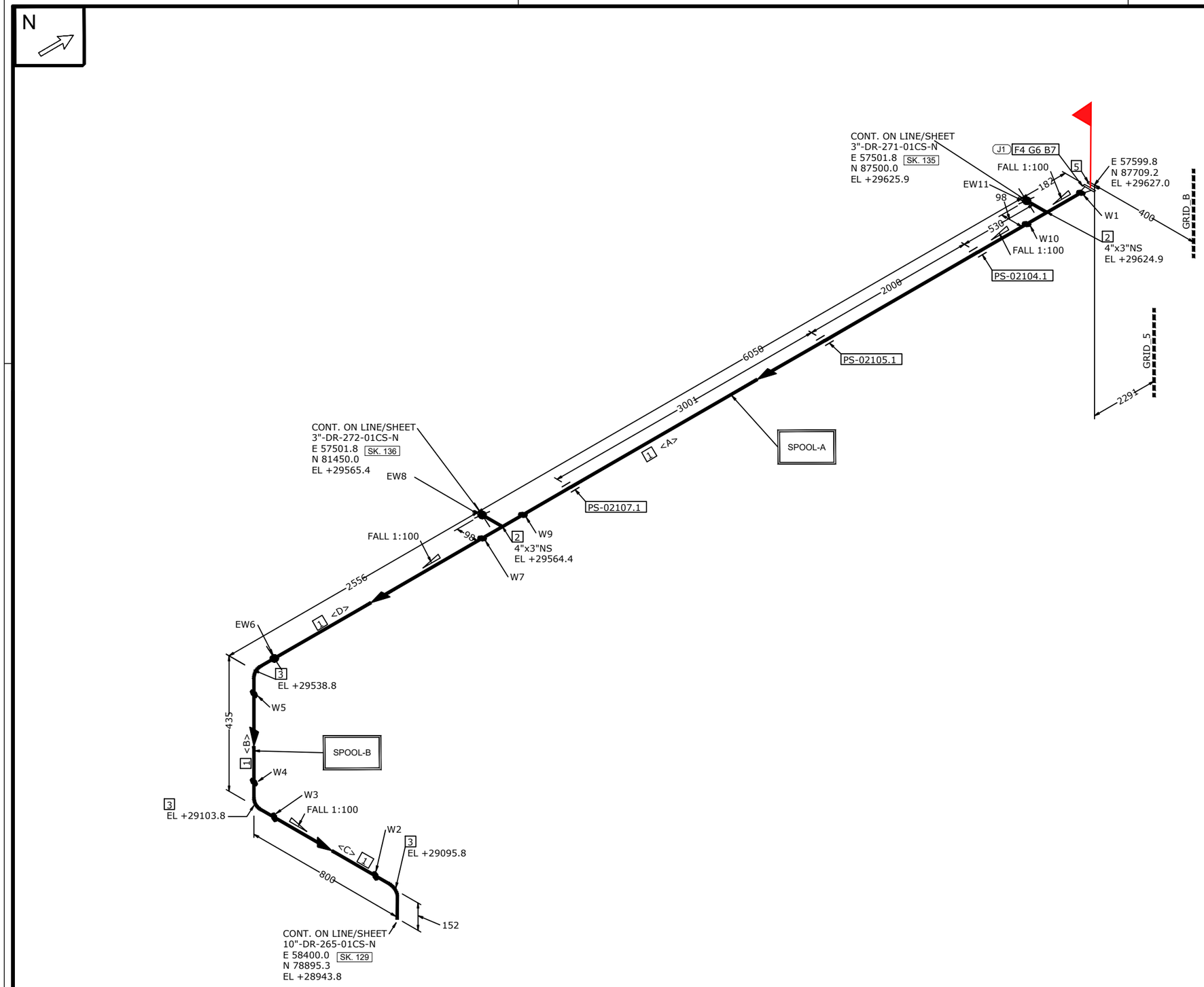
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6.02 SML ASTM/ASME A/SA333 Gr.6	8.8 M	141.0
2	4 x 3	TER0CS15730403	Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	10.4
3	4	E90RCS02380400	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	3	11.7
4	4	FLW0CS03210400	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
ERECTION					
5	4	FLB0CS07390400	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
6	4	GSW0GK11150400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.2
7	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	2.0

FABRICATION WEIGHT [kg]	169.9
ERECTION WEIGHT [kg]	9.0
OVERALL WEIGHT [kg]	178.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4"	BW
W2	4"	BW
W3	4"	BW
W4	4"	BW
W5	4"	BW
EW6	4"	BW
W7	4"	BW
EW8	3"	BW
W9	4"	BW
W10	4"	BW
EW11	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4"	5840	BEVEL	BEVEL
B	4"	131	BEVEL	BEVEL
C	4"	496	BEVEL	BEVEL
D	4"	2299	BEVEL	BEVEL

SUPPORT LIST

PS-02104.1
PS-02105.1
PS-02107.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	16.0	148.1
B	16.0	21.8
ERECT.	10.0	9.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 4"-DR-267-01CS-N
SK. 131

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00131
SHEET / OF: 1 / 1
REV.: 01

56-11-TP-048

MASTER

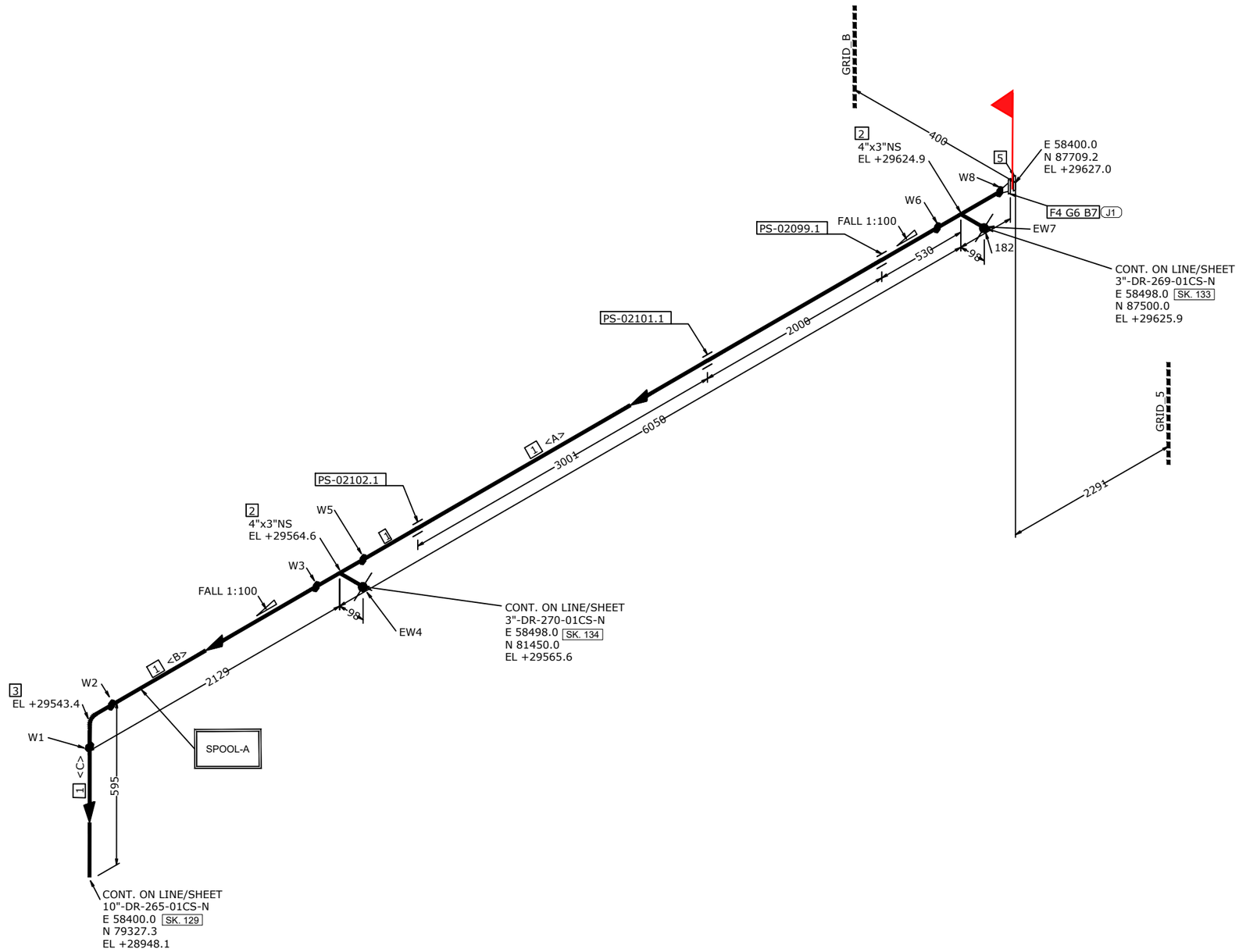
LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE		Liquid			
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS.	3.5 [barg]	TEMP. - / 80 [°C]		
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6.02 SML ASTM/ASME A/SA333 Gr.6	8.8 M	131.1
2	4 x 3	TER0CS15730403	Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	10.4
3	4	E90RCS02380400	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	3.9
4	4	FLW0CS03210400	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
ERECTION					
5	4	FLB0CS07390400	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
6	4	GSW0GK11150400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.2
7	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	2.0

FABRICATION WEIGHT [kg]	152.2
ERECTION WEIGHT [kg]	9.0
OVERALL WEIGHT [kg]	161.2

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4"	BW
W2	4"	BW
W3	4"	BW
EW4	3"	BW
W5	4"	BW
W6	4"	BW
EW7	3"	BW
W8	4"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4"	5840	BEVEL	BEVEL
B	4"	1872	BEVEL	BEVEL
C	4"	443	BEVEL	BEVEL

SUPPORT LIST

PS-02099.1
PS-02101.1
PS-02102.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	24.0	152.2
ERECT.	6.0	9.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 4"-DR-268-01CS-N
SK. 132

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00132
SHEET / OF: 1 / 1
REV.: 01

56-11-TP-048

MASTER

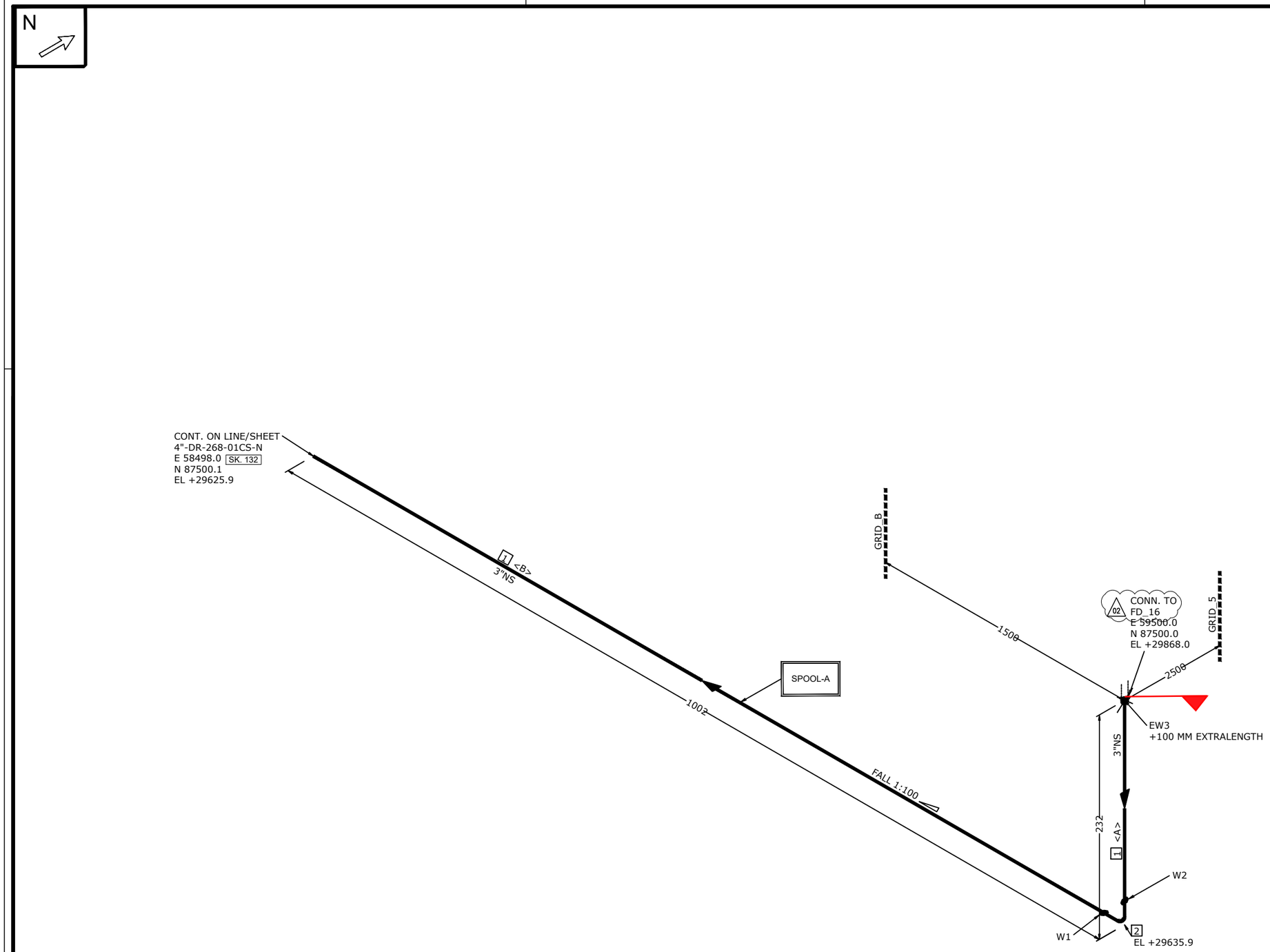
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE		Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.2 M	12.5
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	1	2.0
ERECTION					

FABRICATION WEIGHT [kg]	14.5
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	14.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	3"	BW
W2	3"	BW
EW3	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	218	BEVEL	SQ.CUT
B	3"	888	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	14.5
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-269-01CS-N
SK. 133

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 17-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00133
SHEET / OF: 1 / 1
REV.: 02

56-11-TP-048

MASTER

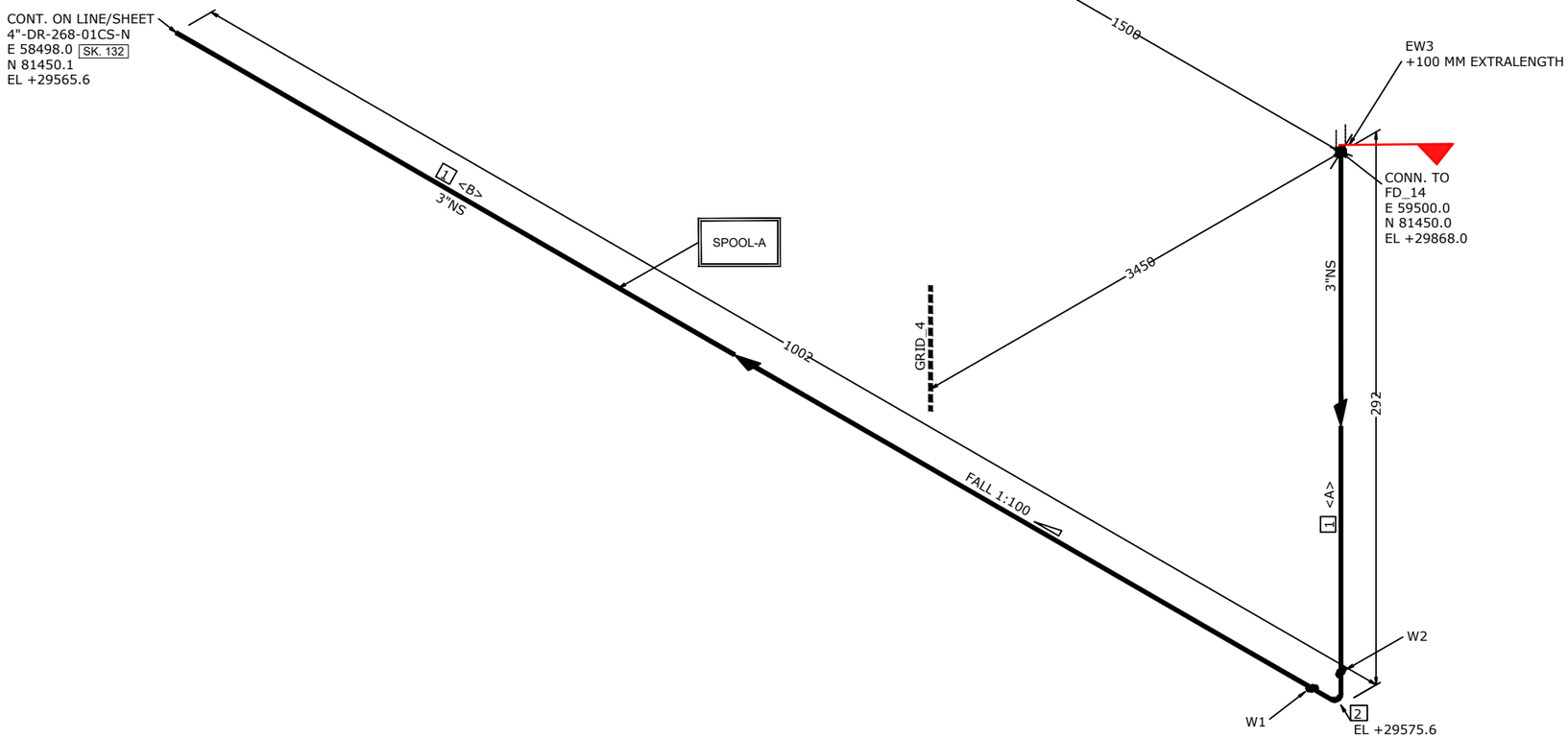
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.2 M	13.1
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	1	2.0
ERECTION					

FABRICATION WEIGHT [kg]	15.1
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	15.1

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	3"	BW
W2	3"	BW
EW3	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	278	BEVEL	SQ.CUT
B	3"	888	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	15.1
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC

LINE NR. 3"-DR-270-01CS-N

SK. 134

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE: N/A

DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024

FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00134 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

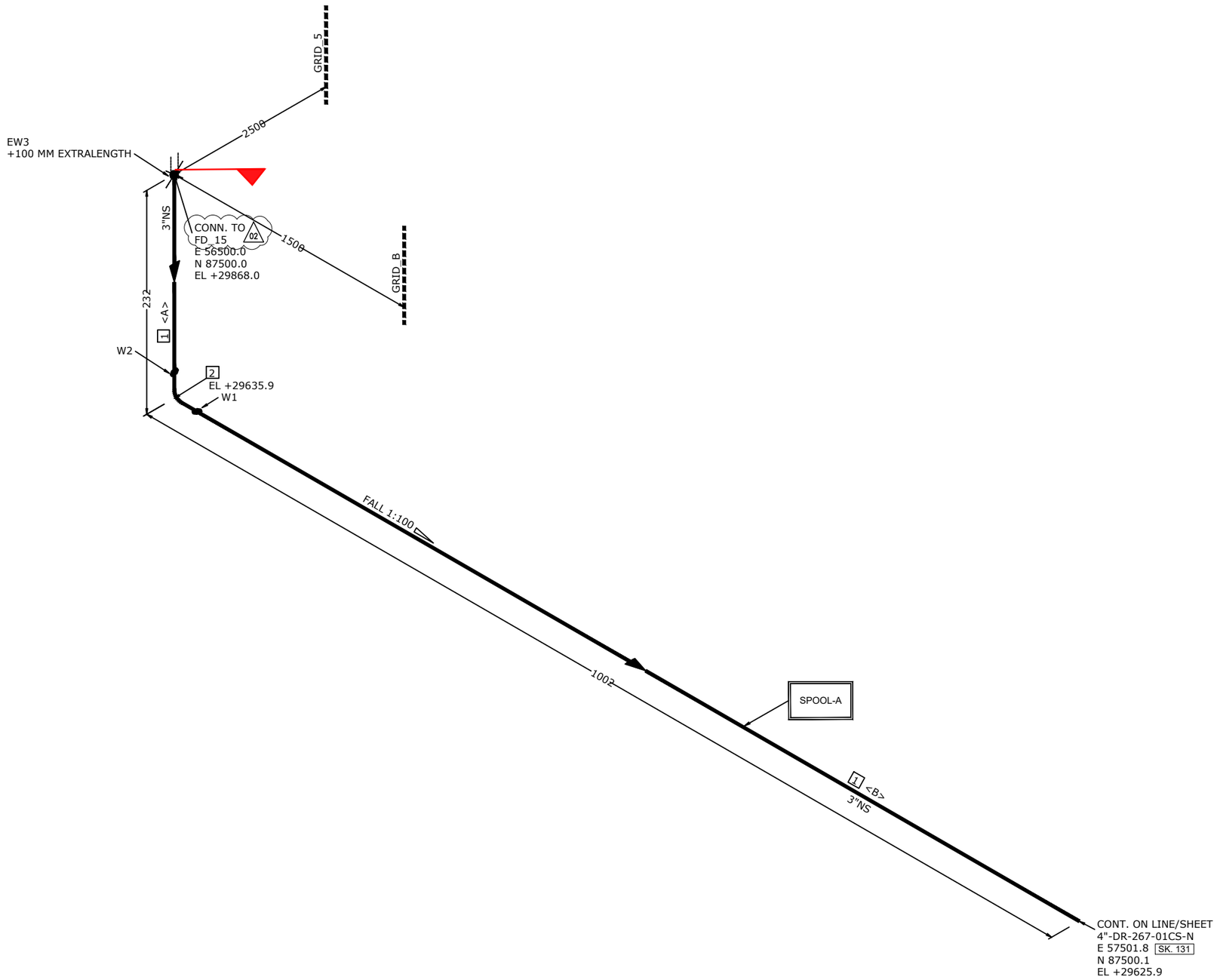
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.2 M	12.5
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	1	2.0
ERECTION					

FABRICATION WEIGHT [kg]	14.5
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	14.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	3"	BW
W2	3"	BW
EW3	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	218	BEVEL	SQ.CUT
B	3"	888	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	14.5
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

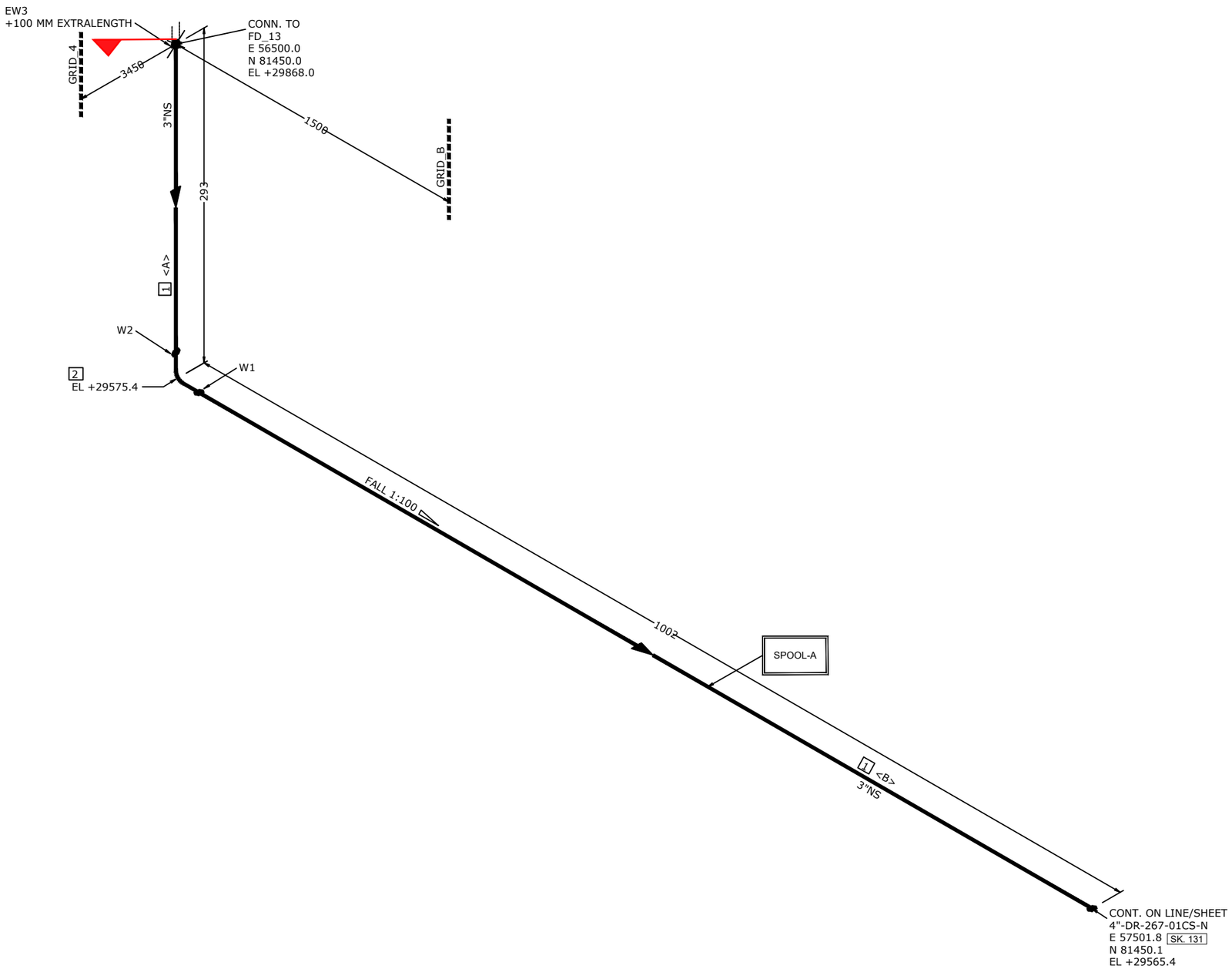
MASTER

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-271-01CS-N
SK. 135

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 17-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00135
SHEET / OF: 1 / 1
REV.: 02



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.2 M	13.1
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	1	2.0
ERECTION					

FABRICATION WEIGHT [kg]	15.1
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	15.1

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	3"	BW
W2	3"	BW
EW3	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	278	BEVEL	SQ.CUT
B	3"	888	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	15.1
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

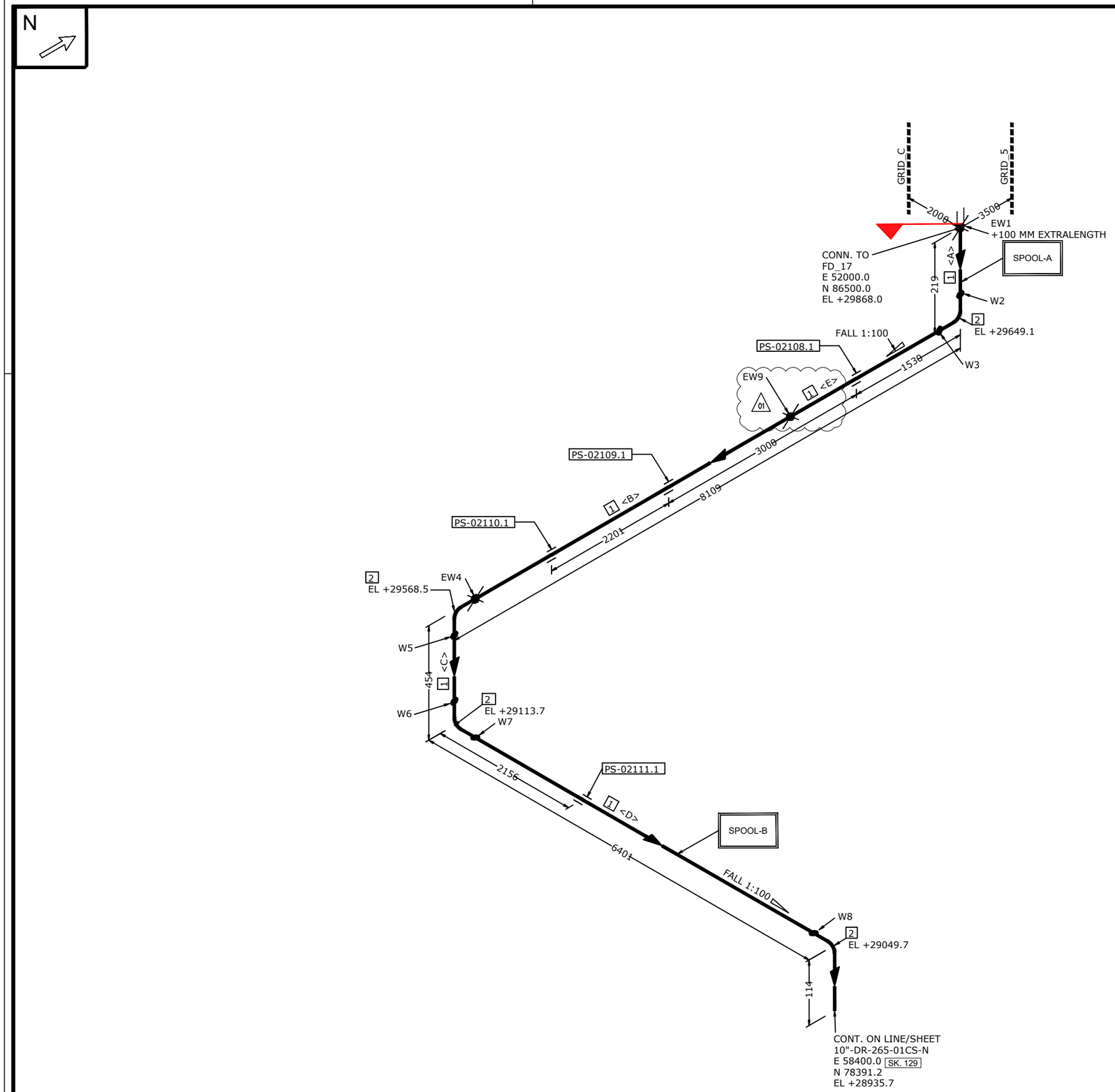
MASTER

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-272-01CS-N
SK. 136

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00136
SHEET / OF: 1 / 1
REV.: 01



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.5 M	163.6
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	4	8.1
ERECTION					

FABRICATION WEIGHT [kg]	171.7
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	171.7

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
EW4	3"	BW
W5	3"	BW
W6	3"	BW
W7	3"	BW
W8	3"	BW
01 EW9	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	205	BEVEL	SQ.CUT
B	3"	01 4295	BEVEL	BEVEL
C	3"	226	BEVEL	BEVEL
D	3"	6173	BEVEL	BEVEL
E	3"	3586	BEVEL	BEVEL
		01		

SUPPORT LIST

PS-02108.1
PS-02109.1
PS-02110.1
PS-02111.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	93.3
B	12.0	78.4
	01	
ERECT.	9.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-273-01CS-N
SK. 137

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A

DRAWN	CHECKED	APPROVED	DATE
RM	RT	LM	03-09-2024

FORMAT	DRAWING NO.	SHEET / OF	REV.
A3	123A90-FDL-PP-DI-00137	1 / 1	01

56-11-TP-048

MASTER

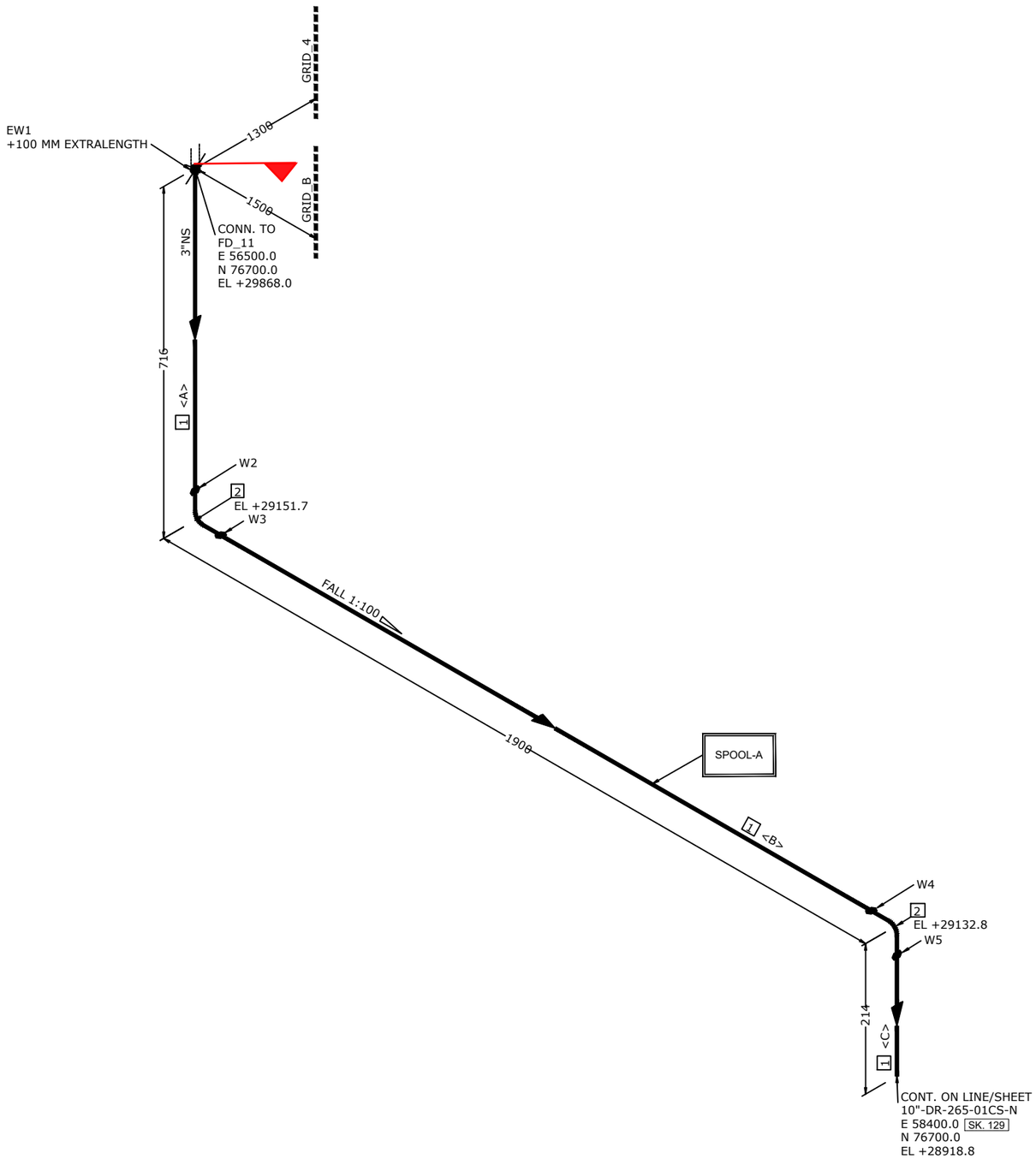
LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	01 Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002		FLUID PHASE	Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]		DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.5 M	27.9
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	32.0
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	32.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	702	BEVEL	SQ.CUT
B	3"	1672	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	32.0
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-274-01CS-N
SK. 138

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00138 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

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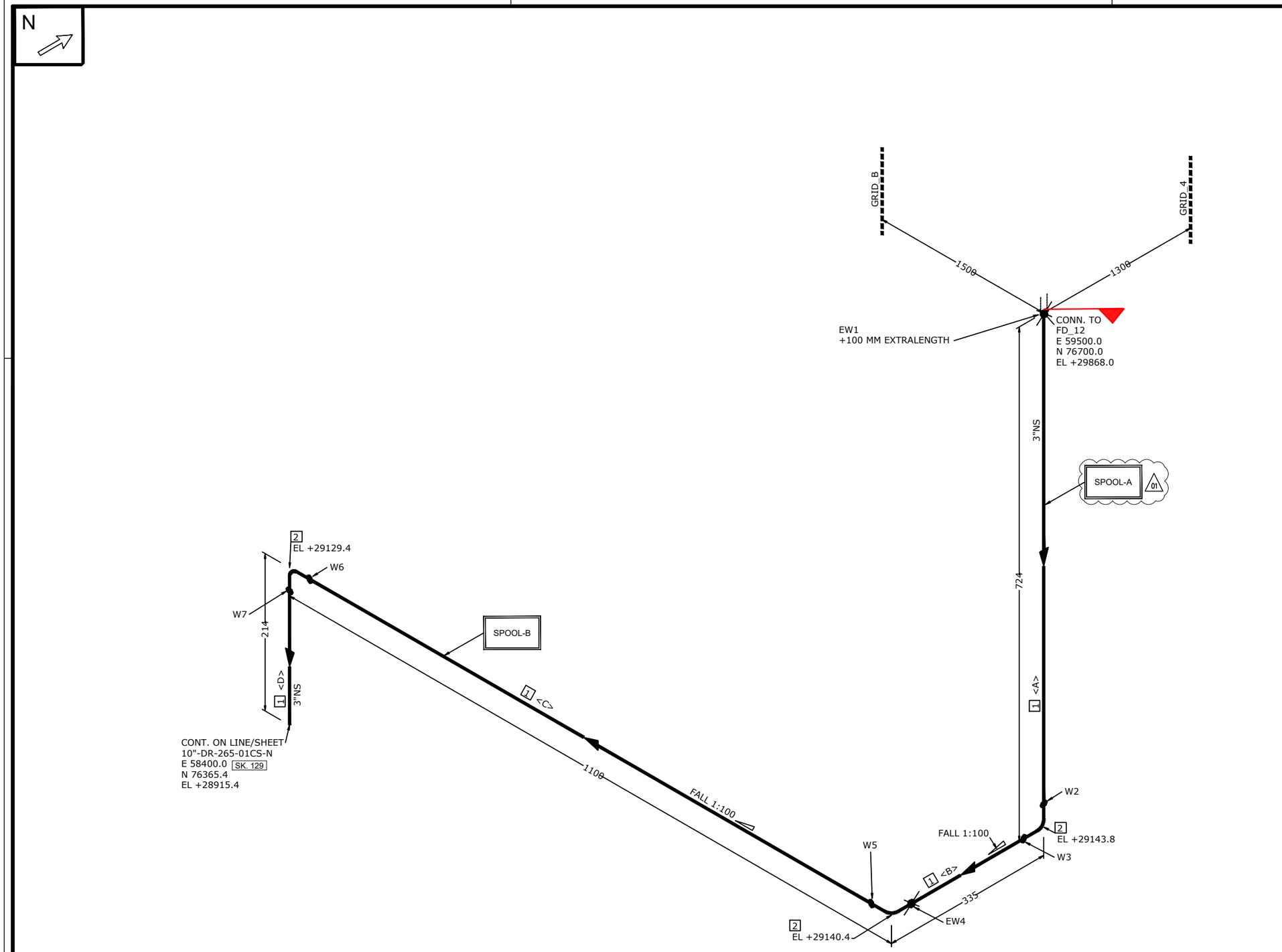
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.8 M	20.1
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	3	6.1
ERECTION					

FABRICATION WEIGHT [kg]	26.2
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	26.2

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
EW4	3"	BW
W5	3"	BW
W6	3"	BW
W7	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	710	BEVEL	SQ.CUT
B	3"	107	BEVEL	BEVEL
C	3"	872	BEVEL	BEVEL
D	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	11.2
B	9.0	15.0
ERECT.	6.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-275-01CS-N
SK. 139

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A

DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024

FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00139 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

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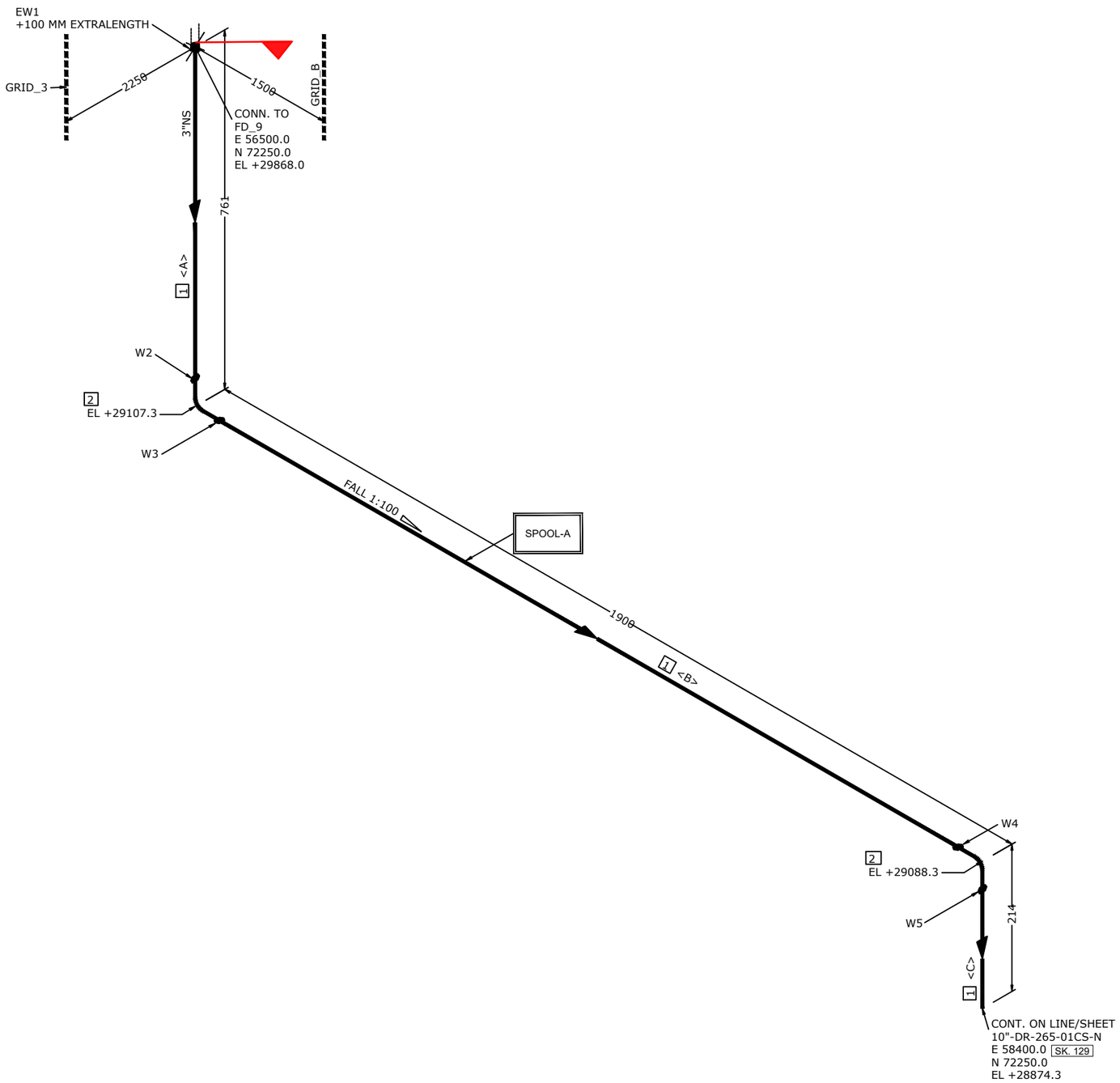
LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.6 M	28.4
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	32.5
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	32.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	747	BEVEL	SQ.CUT
B	3"	1672	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	32.5
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-276-01CS-N
SK. 140

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00140 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

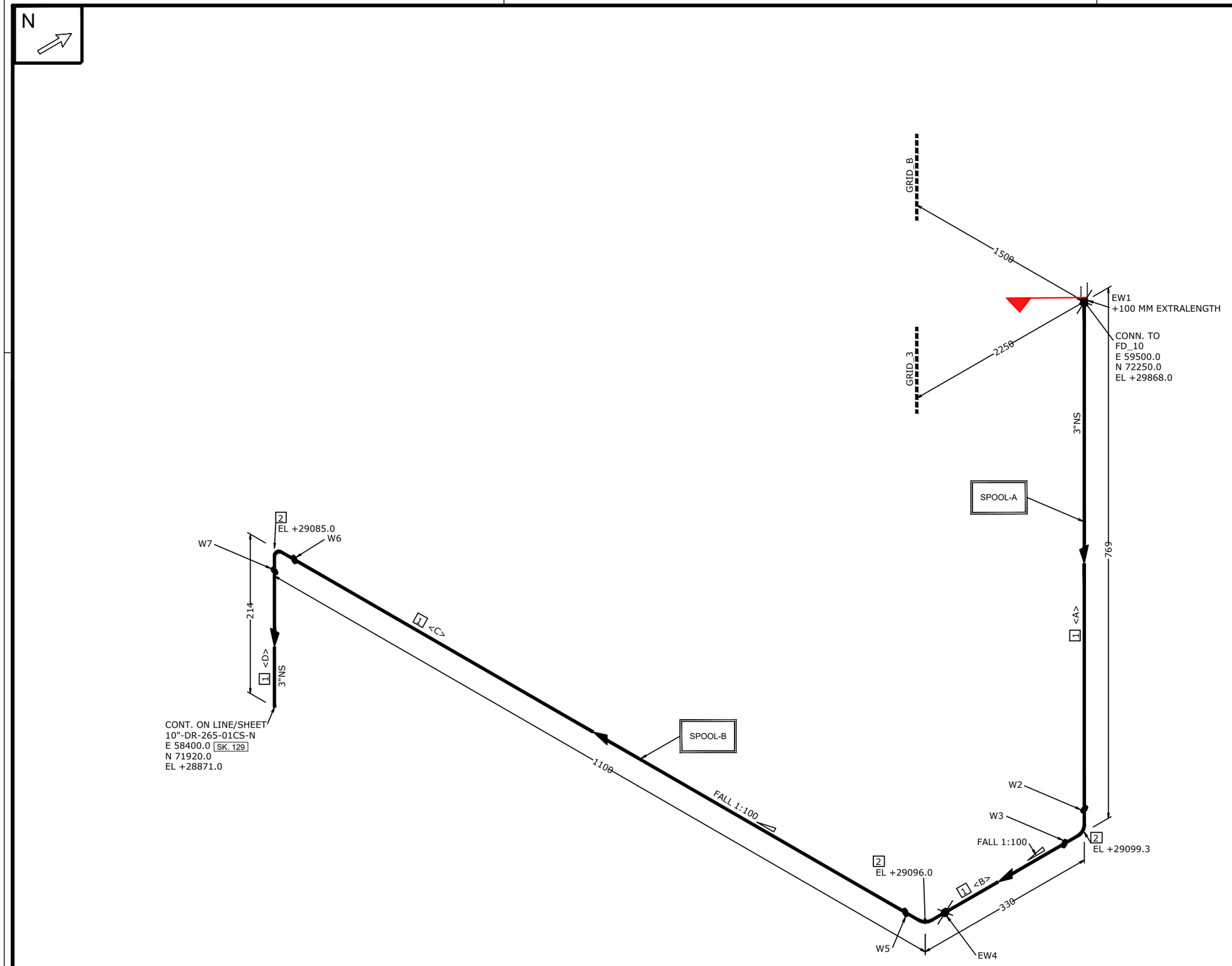
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.9 M	20.6
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	3	6.1
ERECTION					

FABRICATION WEIGHT [kg]	26.7
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	26.7

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
EW4	3"	BW
W5	3"	BW
W6	3"	BW
W7	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	755	BEVEL	SQ.CUT
B	3"	102	BEVEL	BEVEL
C	3"	872	BEVEL	BEVEL
D	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	11.7
B	9.0	15.0
ERECT.	6.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE		Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

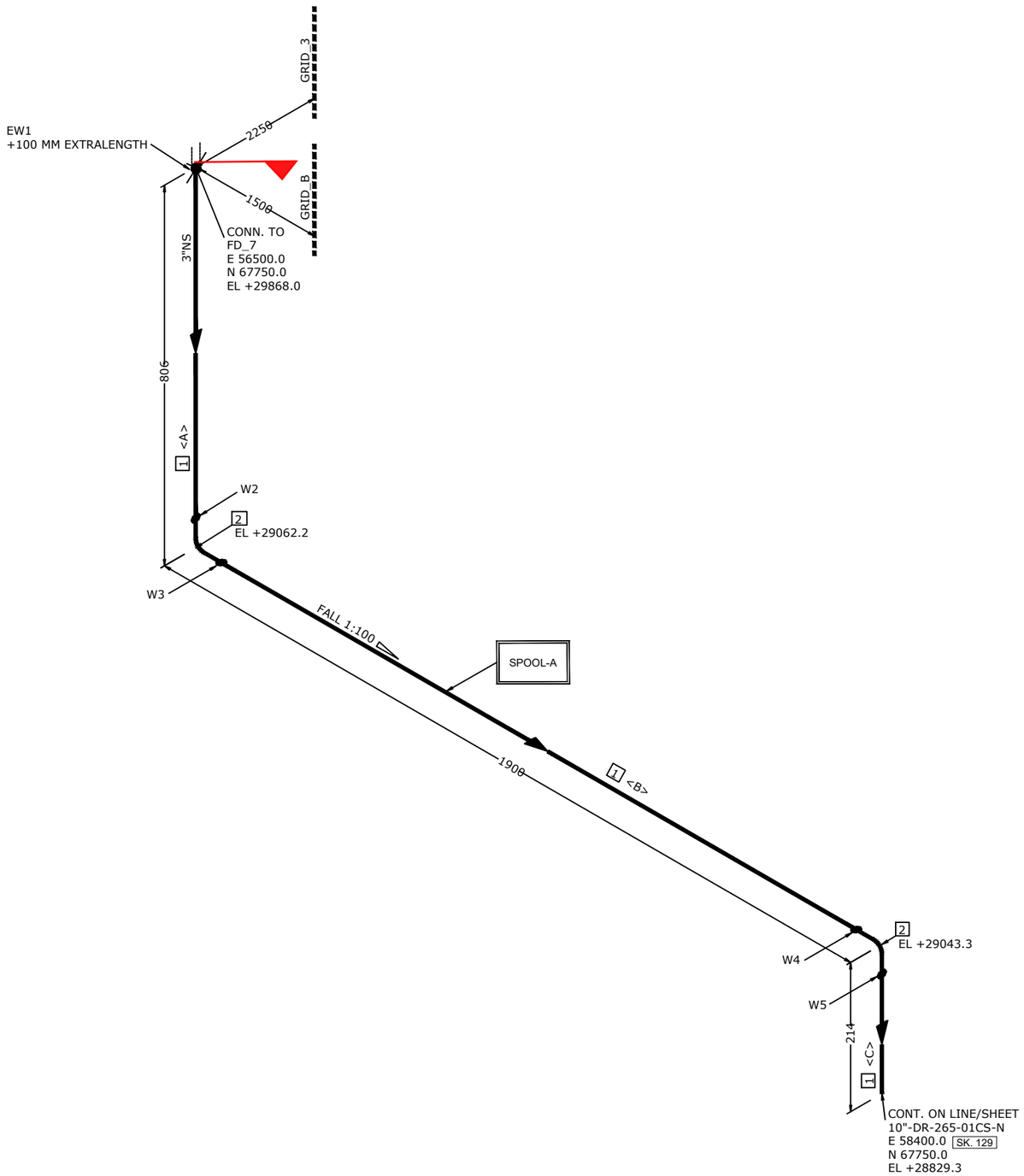
MASTER

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-277-01CS-N
SK. 141

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00141 | SHEET / OF: 1 / 1 | REV.: 01



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.6 M	28.9
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	33.0
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	33.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	792	BEVEL	SQ.CUT
B	3"	1672	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	33.0
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-278-01CS-N
SK. 142

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00142
SHEET / OF: 1 / 1
REV.: 01

56-11-TP-048

MASTER

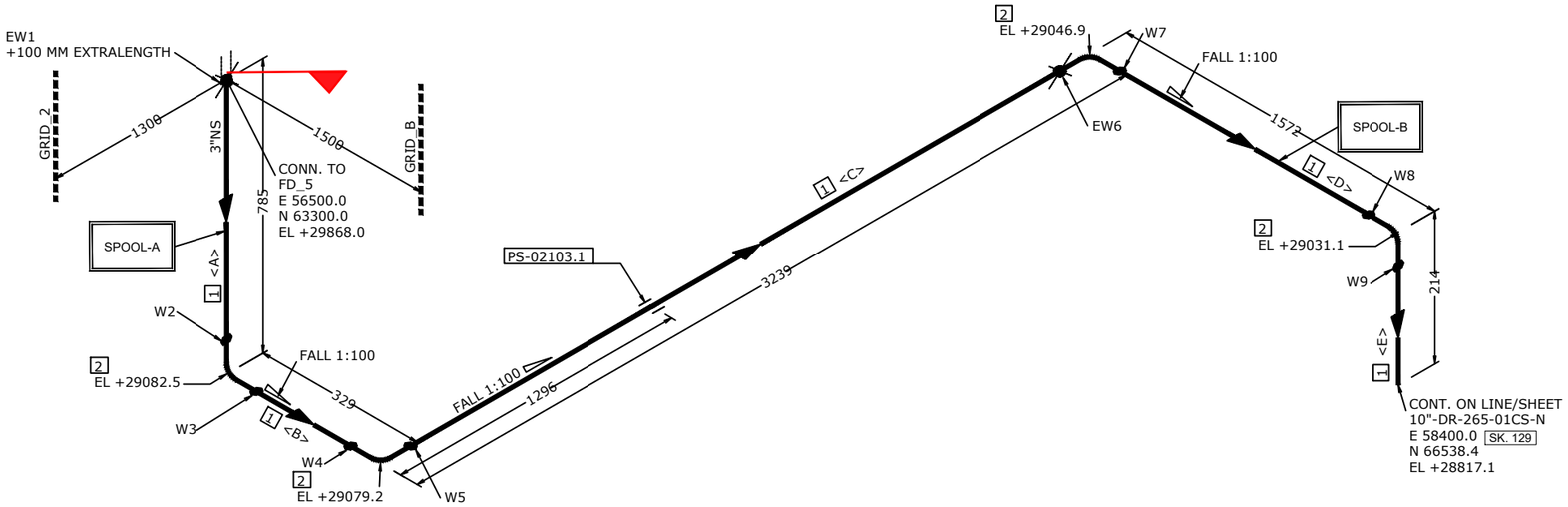
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	5.4 M	60.2
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	4	8.1
ERECTION					

FABRICATION WEIGHT [kg]	68.3
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	68.3

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW
EW6	3"	BW
W7	3"	BW
W8	3"	BW
W9	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	771	BEVEL	SQ.CUT
B	3"	101	BEVEL	BEVEL
C	3"	3011	BEVEL	BEVEL
D	3"	1344	BEVEL	BEVEL
E	3"	100	BEVEL	BEVEL

SUPPORT LIST

PS-02103.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	47.9
B	9.0	20.4
ERECT.	6.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-279-01CS-N
SK. 143

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00143 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

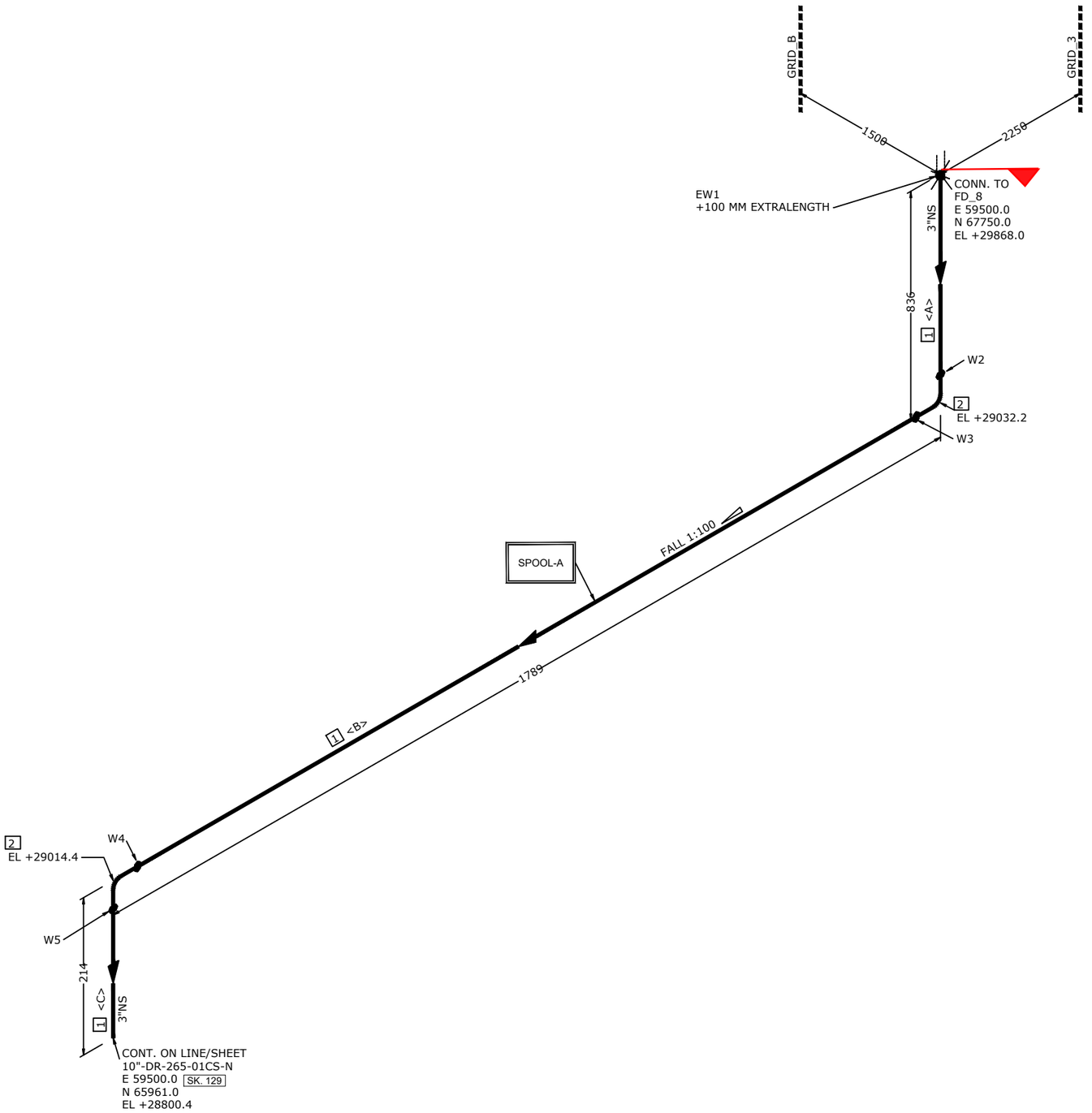
LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.5 M	28.0
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	32.1
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	32.1

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	822	BEVEL	SQ.CUT
B	3"	1561	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	32.1
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-280-01CS-N
SK. 144

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A

DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024

FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00144 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

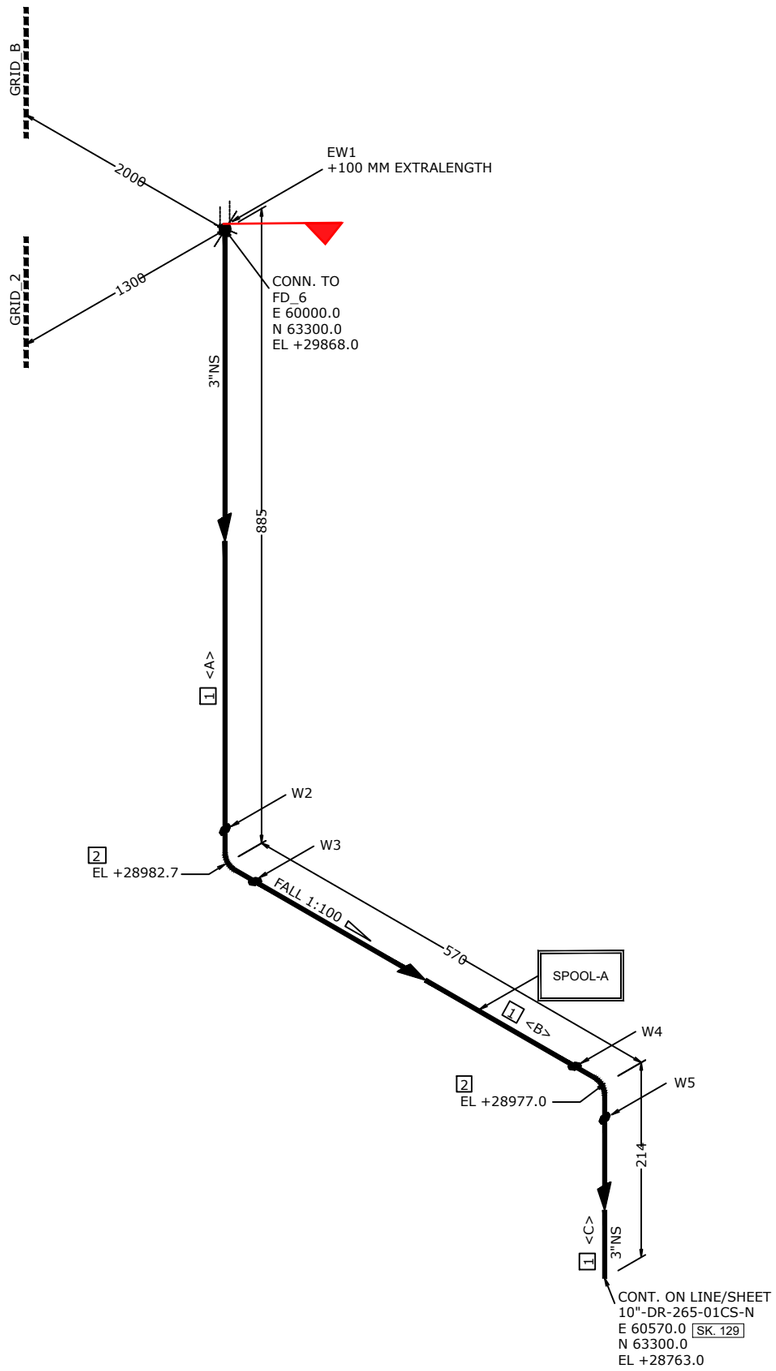
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.4 M	14.8
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	18.9
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	18.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	871	BEVEL	SQ.CUT
B	3"	342	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	18.9
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-281-01CS-N
SK. 145

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00145 | SHEET / OF: 1 / 1 | REV.: 01

56-11-TP-048

MASTER

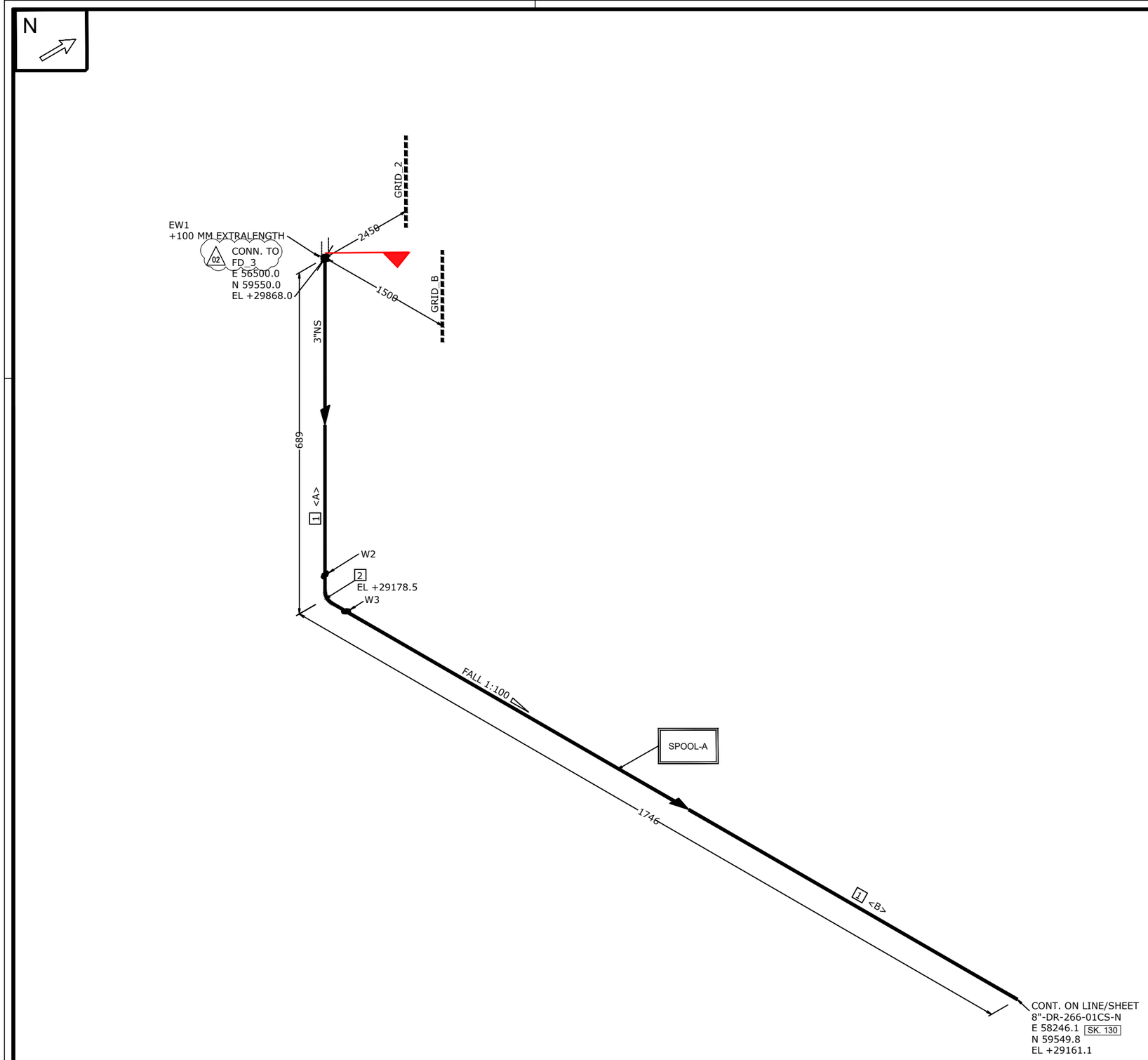
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3			
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.3 M	26.0
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	1	2.0
ERECTION					
FABRICATION WEIGHT [kg]					28.0
ERECTION WEIGHT [kg]					0.0
OVERALL WEIGHT [kg]					28.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	675	BEVEL	SQ.CUT
B	3"	1632	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	6.0	28.0
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

MASTER

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC

LINE NR. 3"-DR-282-01CS-N

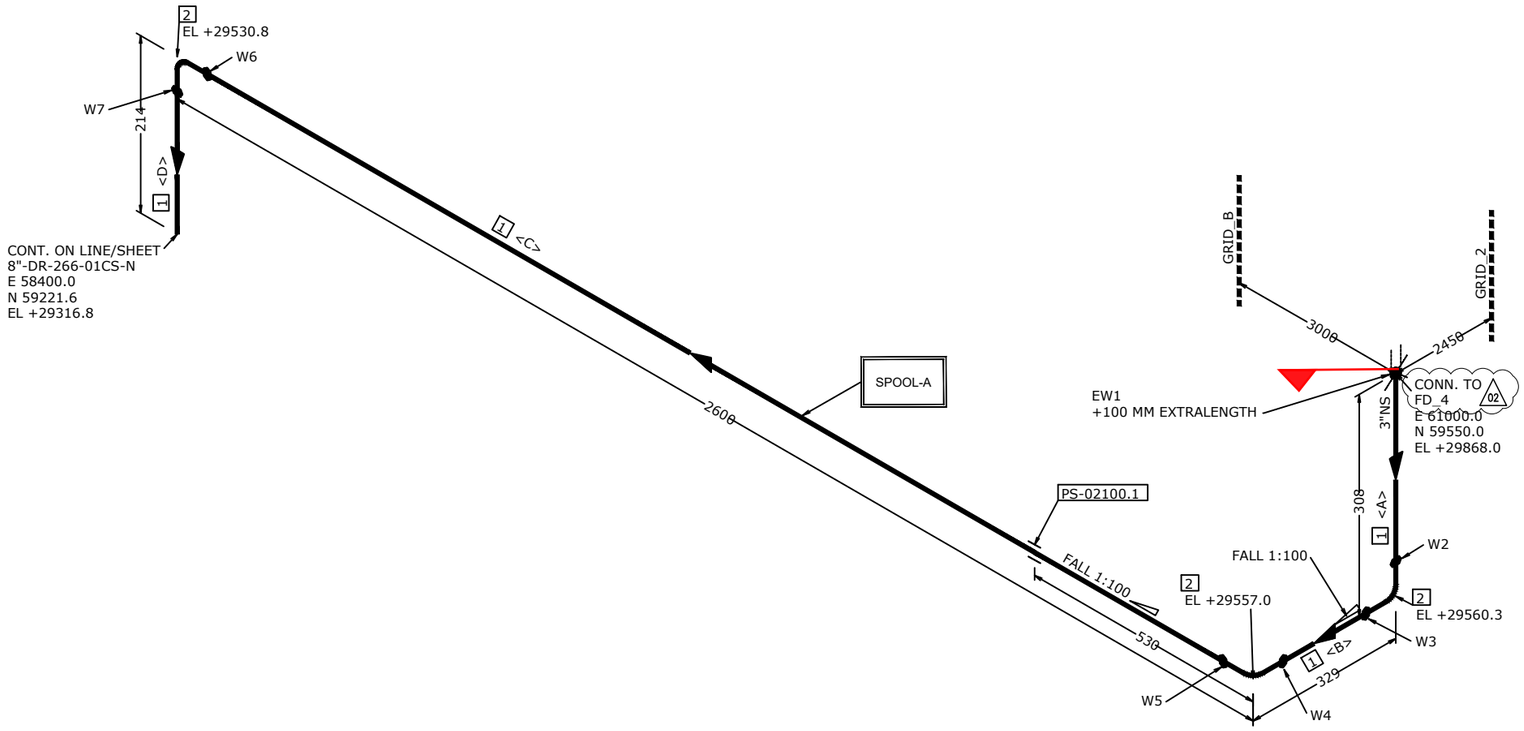
SK. 146

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE: N/A

DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 17-09-2024

FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00146 | SHEET / OF: 1 / 1 | REV.: 02



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.9 M	32.3
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	3	6.1
ERECTION					

FABRICATION WEIGHT [kg]	38.4
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	38.4

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW
W6	3"	BW
W7	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	294	BEVEL	SQ.CUT
B	3"	101	BEVEL	BEVEL
C	3"	2372	BEVEL	BEVEL
D	3"	100	BEVEL	BEVEL

SUPPORT LIST

PS-02100.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	18.0	38.4
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

56-11-TP-048

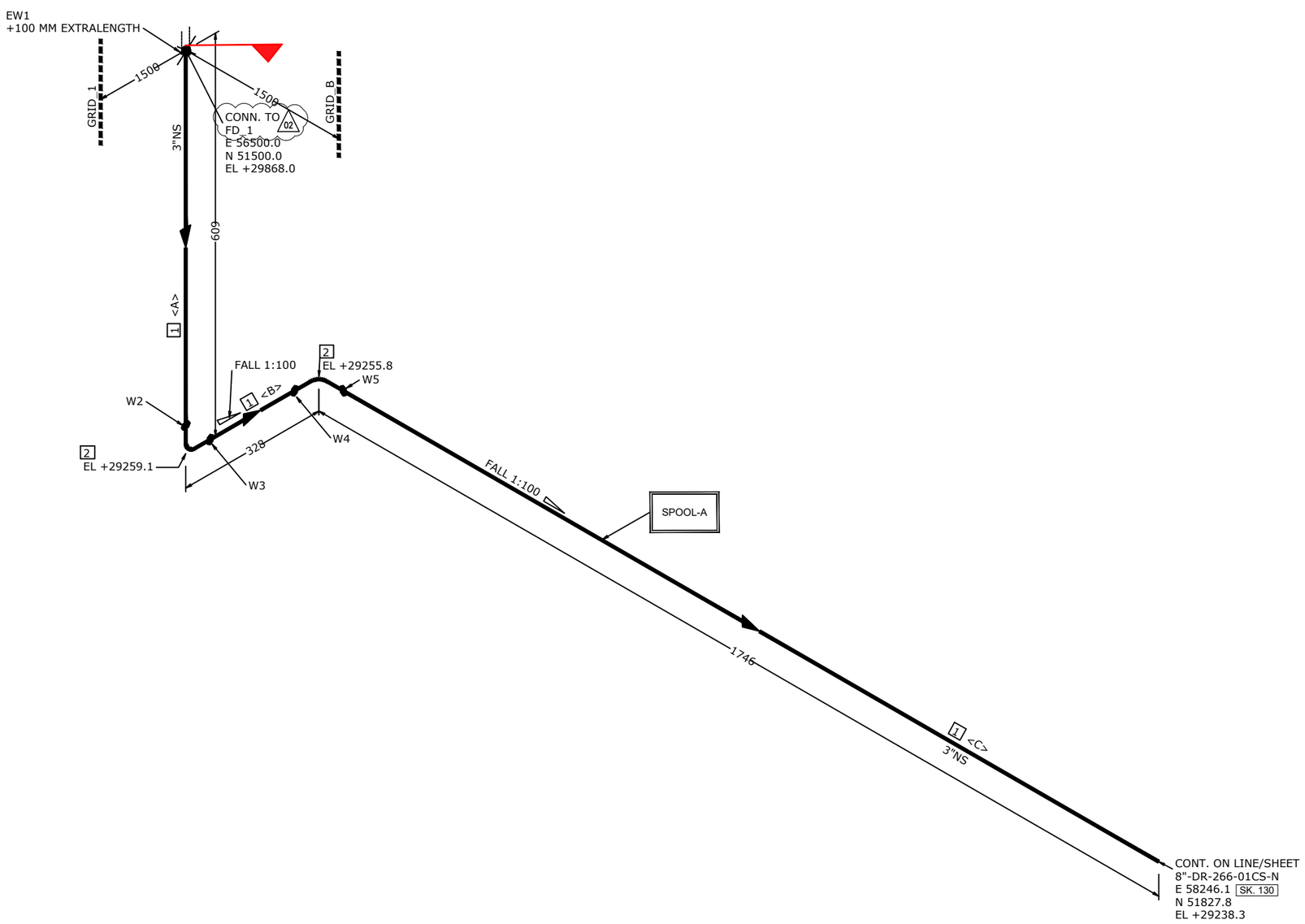
MASTER

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-283-01CS-N
SK. 147

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 17-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00147
SHEET / OF: 1 / 1
REV.: 02



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	2.4 M	26.2
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	30.3
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	30.3

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	595	BEVEL	SQ.CUT
B	3"	100	BEVEL	BEVEL
C	3"	1632	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	30.3
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-284-01CS-N
SK. 148

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM
DATE: 17-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00148
SHEET / OF: 1 / 1
REV.: 02

56-11-TP-048

MASTER

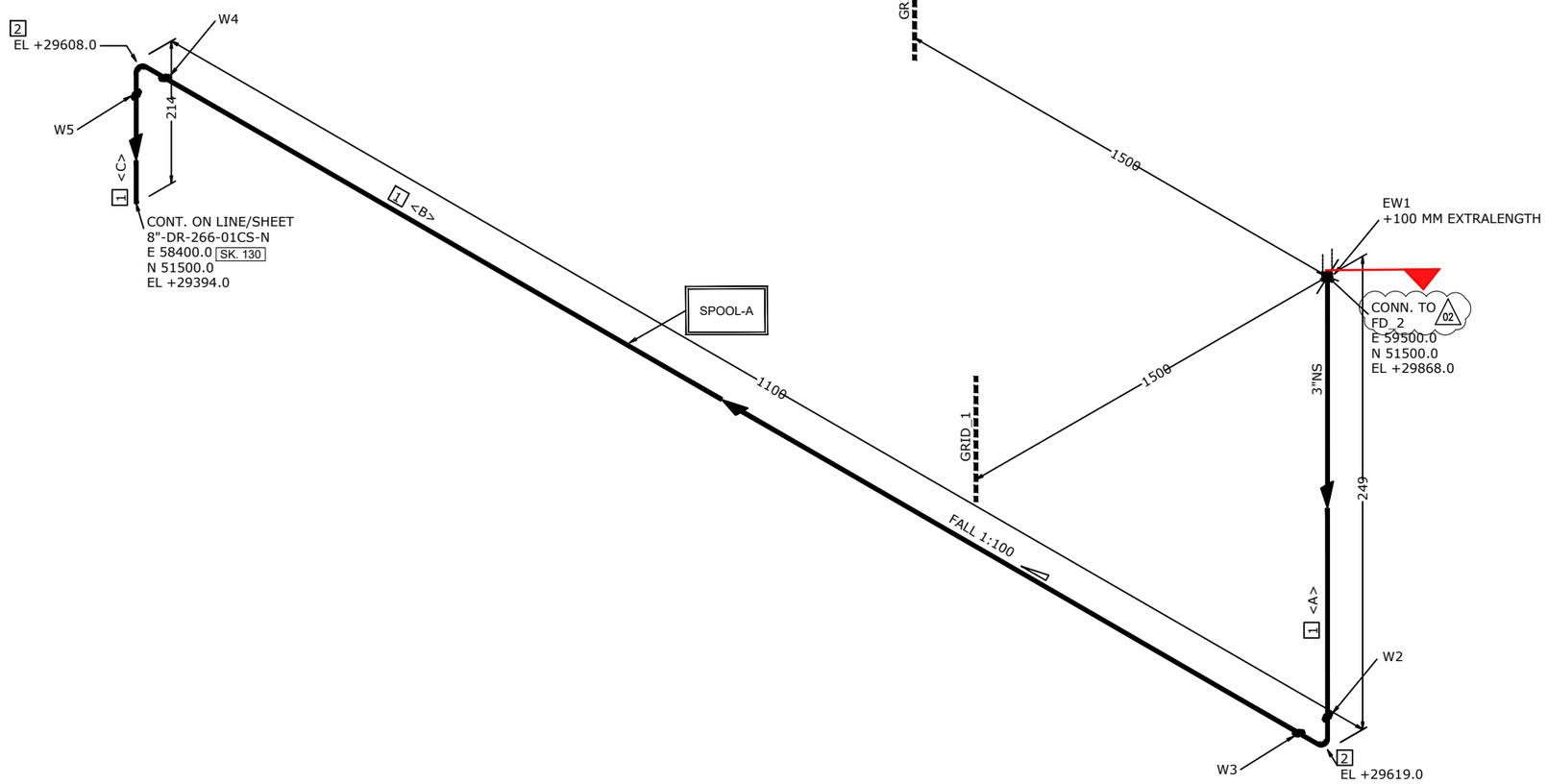
LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	3	PIPECS03730300	Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6	1.2 M	13.6
2	3	E90RCS02830300	90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	4.1
ERECTION					

FABRICATION WEIGHT [kg]	17.7
ERECTION WEIGHT [kg]	0.0
OVERALL WEIGHT [kg]	17.7

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
EW1	3"	BW
W2	3"	BW
W3	3"	BW
W4	3"	BW
W5	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	3"	235	BEVEL	SQ.CUT
B	3"	872	BEVEL	BEVEL
C	3"	100	BEVEL	BEVEL

SUPPORT LIST

SPOOL	WELD [inches]	WEIGHT [kg]
A	12.0	17.7
ERECT.	3.0	0.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 3"-DR-285-01CS-N
SK. 149

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 17-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00149 | SHEET / OF: 1 / 1 | REV.: 02

56-11-TP-048

MASTER

LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	Art. 4, par. 3				
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE	Liquid				
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]			
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A		

REFERENCE DOCUMENTS

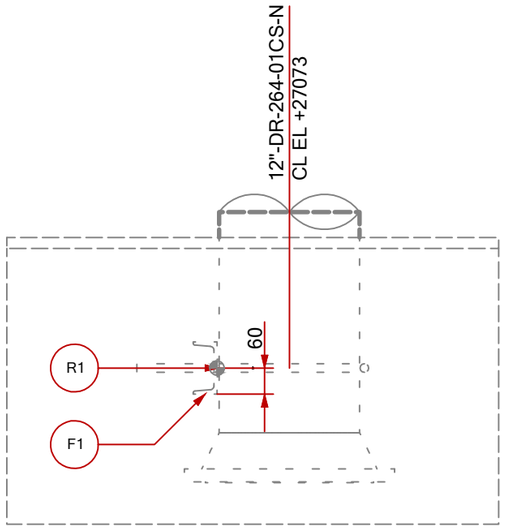
P&ID	123A90-DDL-PR-PID-80043
ISOMETRIC SHOP DWG LIST	123A90-FDL-PP-LIS-00001
PIPING SUPPORT BOOK	123A90-DDL-PP-DD-72000
PIPING MATERIAL CLASS	123A90-DDL-PP-SP-70029

NOTES

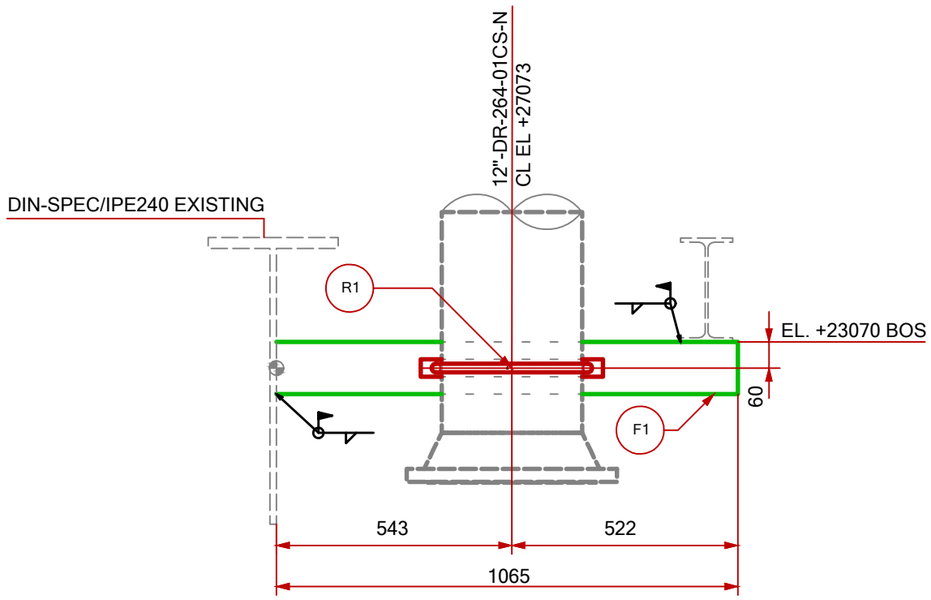
6. EXTRACT OF SUPPORT LIST & DETAILS

SUPPORT LIST

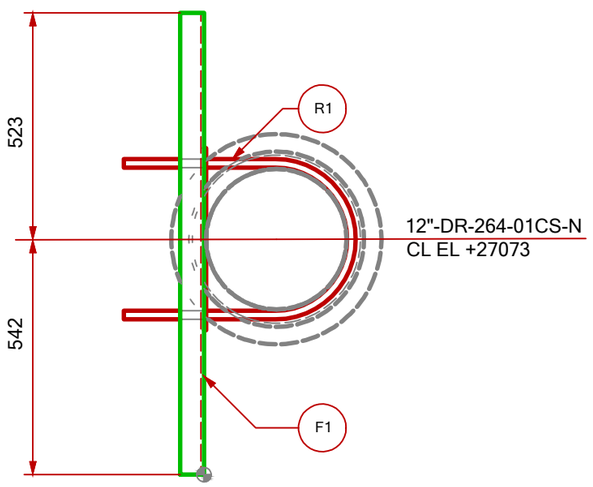
SUPPORT	SUFFIX	SERVICE	DECK IDENTIFICATION	SUB ASSEMBLY	LINE	SUPPORTS STANDARD	NDT CATEGORY	QUANTITY	TOT. WEIGTH (KG)	PAINTING SURFACE (SQM)	REV	DATE	STATUS	NOTES	Test Pack N°
PS-01032	B1	PIP	LOWER DECK		12"-DR-264-01CS-N	S-211 - 12"		1	4,068	0,000	01	04/11/2024	AFC		TP-048
PS-02005	B1	PIP	UPPER DECK		10"-DR-265-01CS-N	S-204 - A - 10" - 2		1	3,499	0,090	01	04/11/2024	AFC		TP-048
PS-02005	B2	PIP	UPPER DECK		10"-DR-265-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02078	B1	PIP	UPPER DECK		8"-DR-266-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02078	B2	PIP	UPPER DECK		8"-DR-266-01CS-N	S-204 - A - 8" - 2		1	2,908	0,076	01	04/11/2024	AFC		TP-048
PS-02088	B1	PIP	UPPER DECK		8"-DR-266-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02088	B2	PIP	UPPER DECK		8"-DR-266-01CS-N	S-204 - A - 8" - 2		1	2,908	0,076	01	04/11/2024	AFC		TP-048
PS-02099	B1	PIP	UPPER DECK		4"-DR-268-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02100	B1	PIP	UPPER DECK		3"-DR-283-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02101	B1	PIP	UPPER DECK		4"-DR-268-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02102	B1	PIP	UPPER DECK		4"-DR-268-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02103	B1	PIP	UPPER DECK		3"-DR-279-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02104	B1	PIP	UPPER DECK		4"-DR-267-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02105	B1	PIP	UPPER DECK		4"-DR-267-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02106	B1	PIP	UPPER DECK		10"-DR-265-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02106	B2	PIP	UPPER DECK		10"-DR-265-01CS-N	S-204 - A - 10" - 2		1	3,499	0,090	01	04/11/2024	AFC		TP-048
PS-02107	B1	PIP	UPPER DECK		4"-DR-267-01CS-N	S-211 - 4"		1	0,956	0,000	01	04/11/2024	AFC		TP-048
PS-02108	B1	PIP	UPPER DECK		3"-DR-273-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02109	B1	PIP	UPPER DECK		3"-DR-273-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02110	B1	PIP	UPPER DECK		3"-DR-273-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02111	B1	PIP	UPPER DECK		3"-DR-273-01CS-N	S-211 - 3"		1	0,874	0,000	01	04/11/2024	AFC		TP-048
PS-02112	B1	PIP	UPPER DECK		10"-DR-265-01CS-N	S-204 - A - 10" - 2		1	3,499	0,090	01	04/11/2024	AFC		TP-048
PS-02112	B2	PIP	UPPER DECK		10"-DR-265-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02113	B1	PIP	UPPER DECK		8"-DR-266-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02113	B2	PIP	UPPER DECK		8"-DR-266-01CS-N	S-204 - A - 8" - 2		1	2,908	0,076	01	04/11/2024	AFC		TP-048
PS-02114	B1	PIP	UPPER DECK		12"-DR-264-01CS-N	S-222 - B - 10" - 6,35 - 469 - 515 - 90		1	19,625	0,686	01	04/11/2024	AFC		TP-048
PS-02114	B2	PIP	UPPER DECK		12"-DR-264-01CS-N	S-222 - B - 10" - 6,35 - 469 - 515 - 90		1	19,625	0,686	01	04/11/2024	AFC		TP-048
PS-02114	B3	PIP	UPPER DECK		12"-DR-264-01CS-N	C-16 - 100 - 100 - 5		2	0,220	0,000	01	04/11/2024	AFC		TP-048
PS-02115	B1	PIP	UPPER DECK		10"-DR-265-01CS-N	S-204 - A - 10" - 2		1	3,499	0,090	01	04/11/2024	AFC		TP-048
PS-02115	B2	PIP	UPPER DECK		10"-DR-265-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048
PS-02116	B1	PIP	UPPER DECK		8"-DR-266-01CS-N	S-204 - A - 8" - 2		1	2,908	0,076	01	04/11/2024	AFC		TP-048
PS-02116	B2	PIP	UPPER DECK		8"-DR-266-01CS-N	C-16 - 100 - 100 - 5		1	0,110	0,000	01	04/11/2024	AFC		TP-048



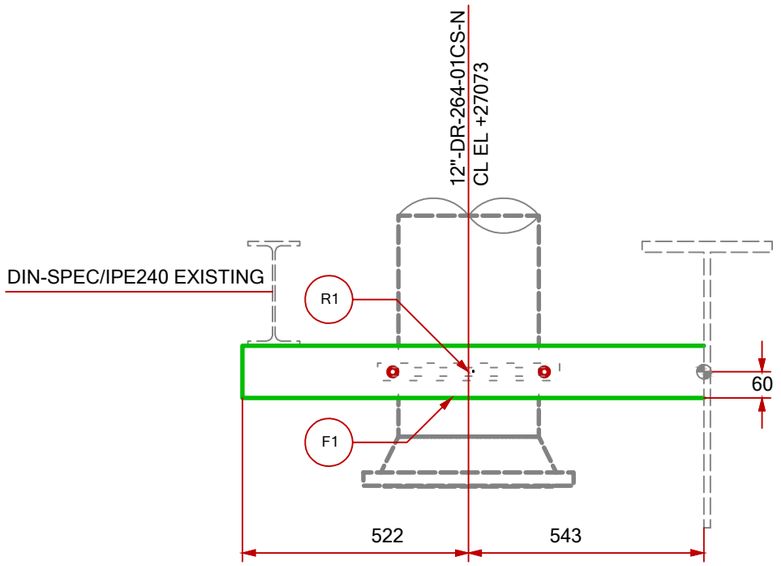
VIEW LOOKING NORTH



VIEW LOOKING WEST



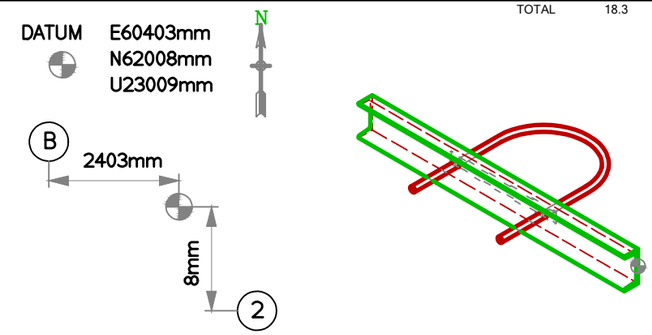
PLAN VIEW



VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-12"	-	-	1	-	4.07	-
F1	BEAM	UPN120	Carbon Steel	1065	1	13.35	14.22	0.460
						TOTAL	18.3	0.46



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

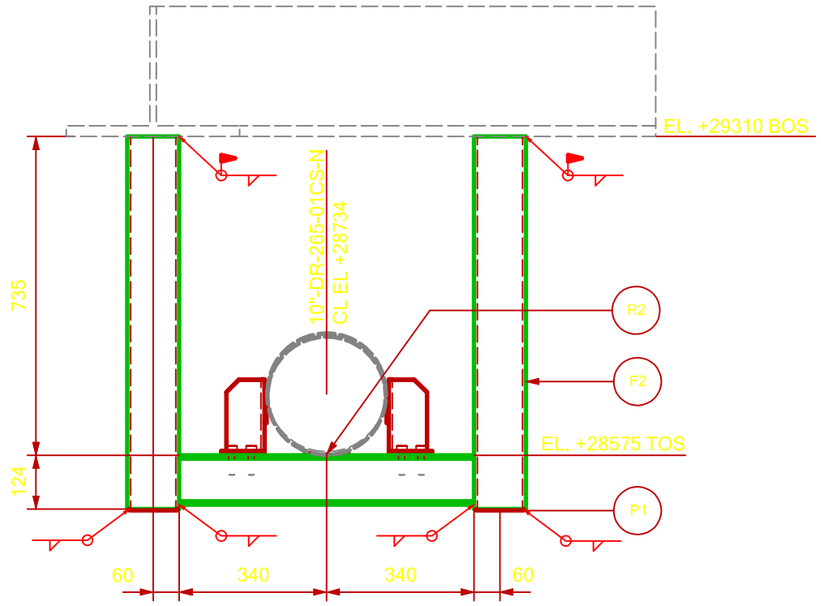
ROSETTI MARINO

TITLE :

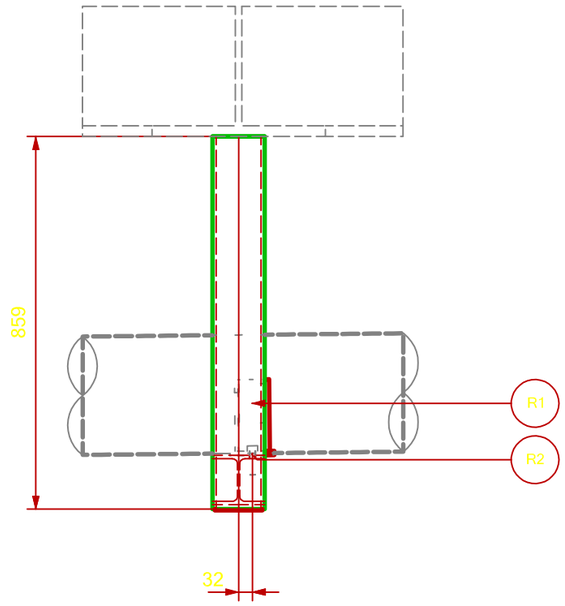
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-01032

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

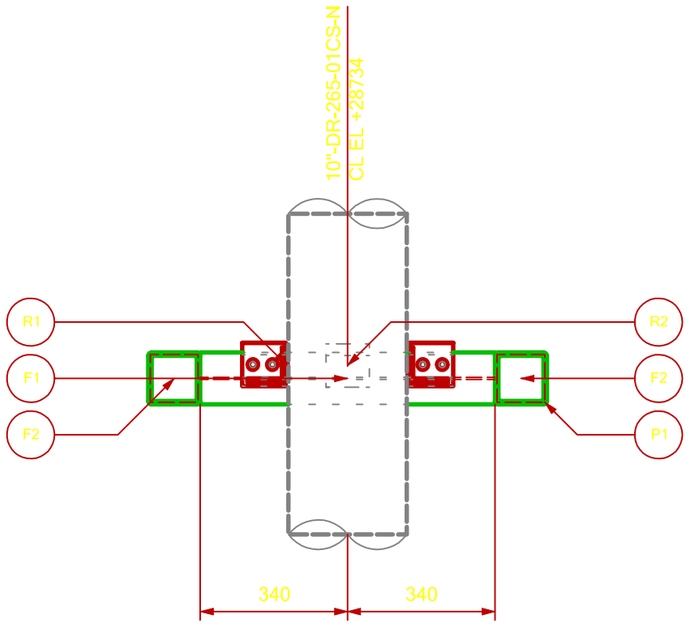
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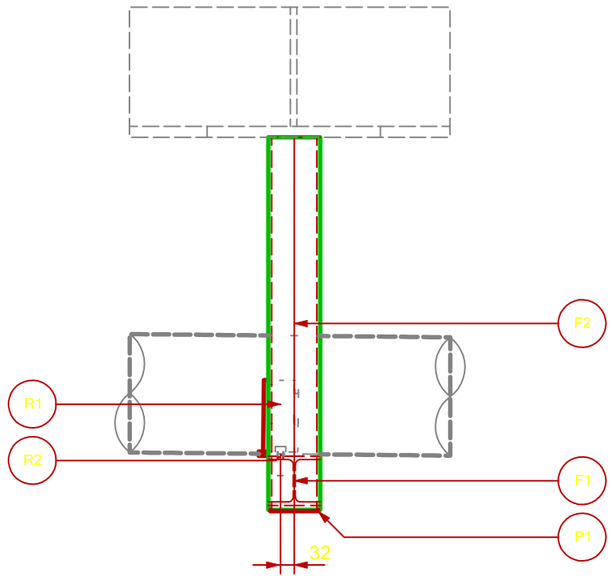
VIEW LOOKING NORTH



VIEW LOOKING WEST



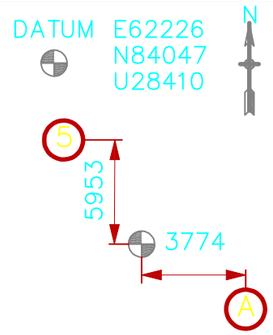
PLAN VIEW

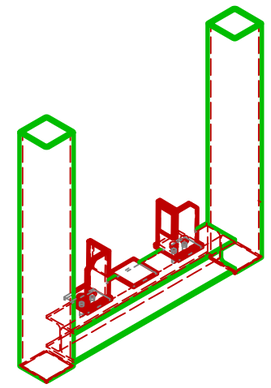


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-204-A-10"-2	-	-	1	-	3,50	0,090
R2	STD	C-16-100-100-5	-	-	1	-	0,11	-
F1	BEAM	HEA120	Carbon Steel	680	1	19,93	13,55	0,466
F2	BEAM	RHS120x120x8	Carbon Steel	859	1	27,79	23,88	0,759
F2	BEAM	RHS120x120x8	Carbon Steel	859	1	27,79	23,88	0,759
P1	PLATE	3	Carbon Steel	110x110	2	-	0,56	0,024
						TOTAL	65,5	2,10





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

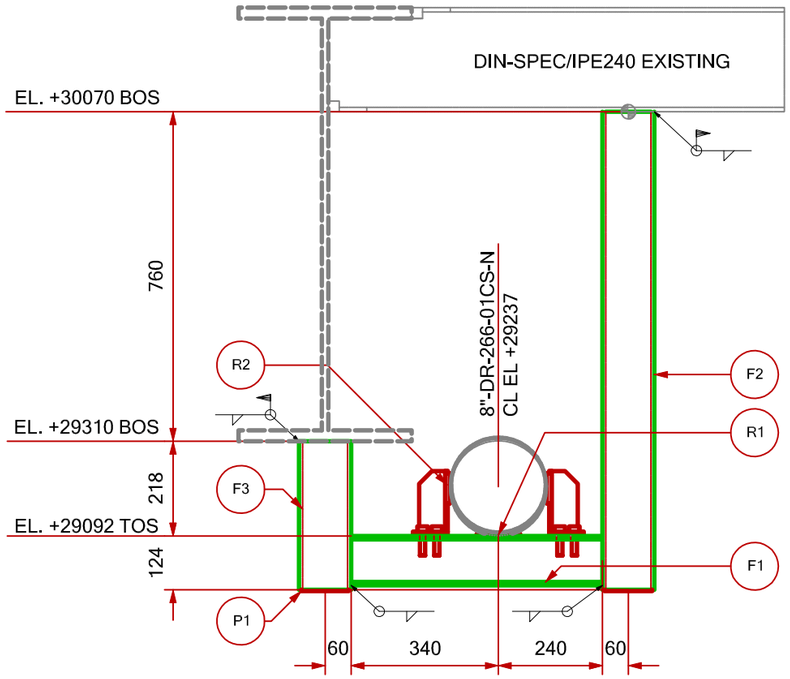
TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings

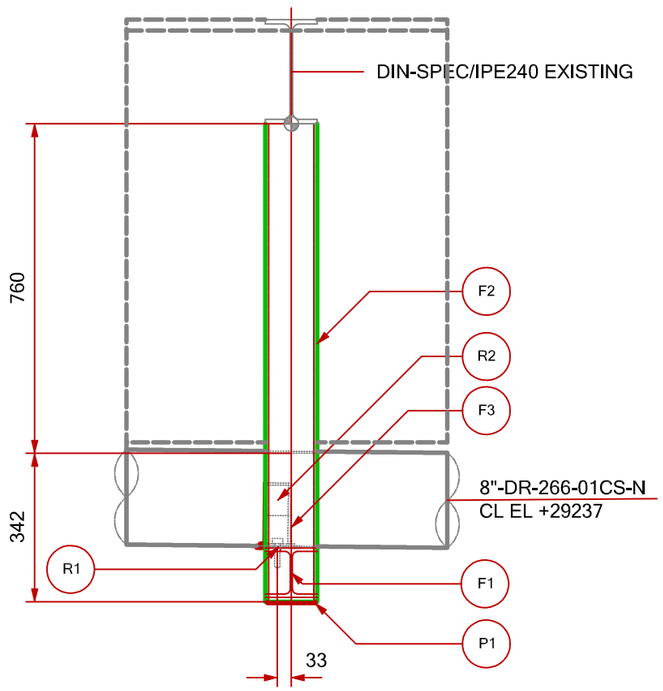
PS-02005

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

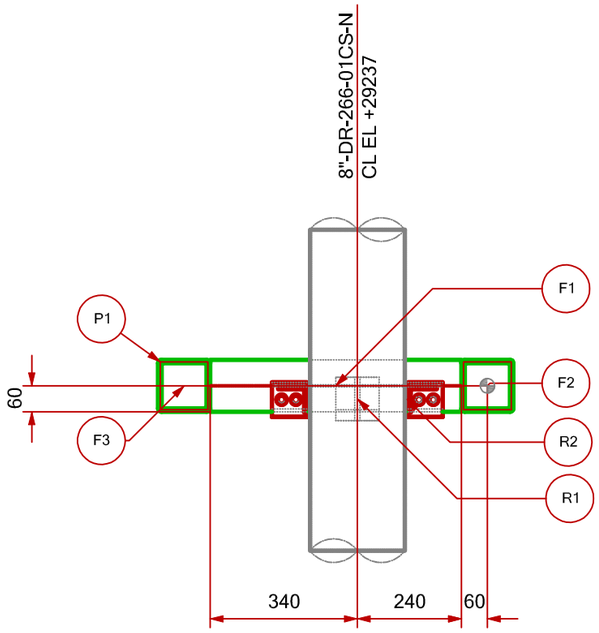
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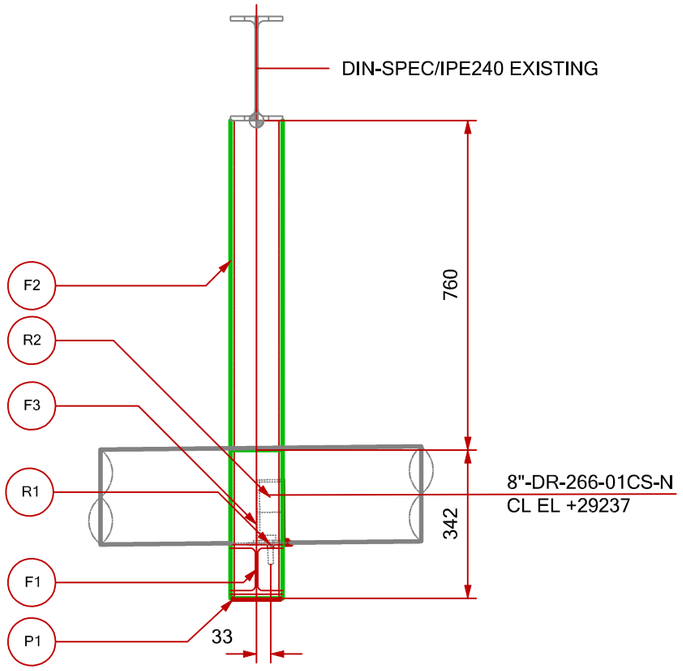
VIEW LOOKING NORTH



VIEW LOOKING WEST



PLAN VIEW

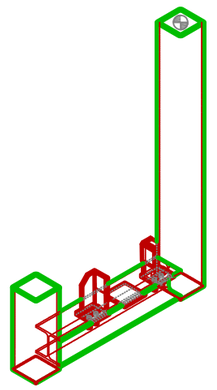


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	C-16-100-100-5	-	-	1	-	0.11	-
R2	STD	S-204-A-8"-2	-	-	1	-	2.91	0.076
F1	BEAM	HEA120	Carbon Steel	580	1	19,92	11.55	0.398
F2	BEAM	RHS120x120x8	Carbon Steel	1102	1	27.79	30.64	0.971
F3	BEAM	RHS120x120x8	Carbon Steel	342	1	27.79	9.52	0.307
P1	PLATE	3	Carbon Steel	110x110	2	-	0.56	0.024
						TOTAL	55.3	1.78





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

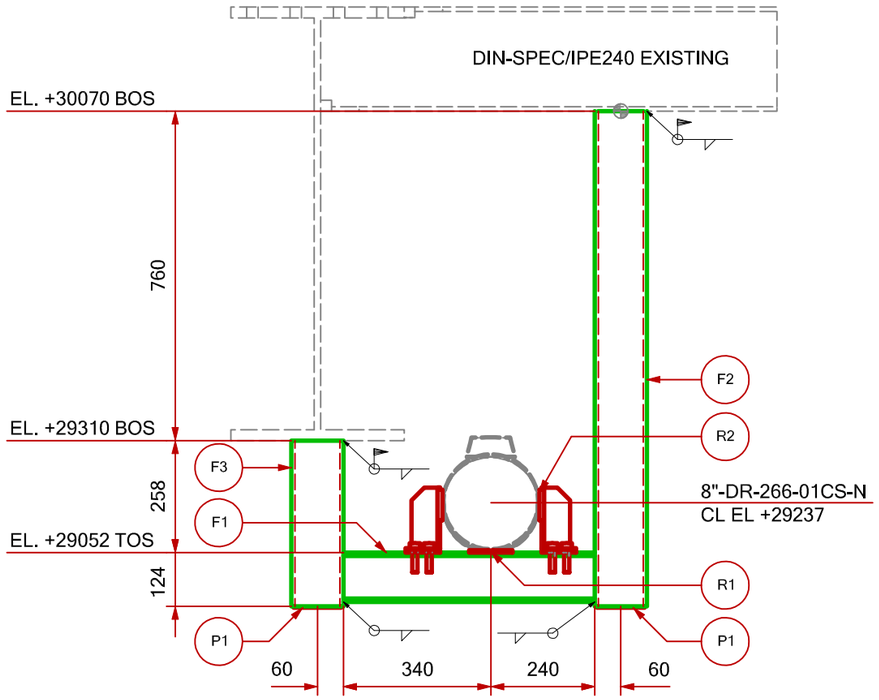
ROSETTI MARINO

TITLE :

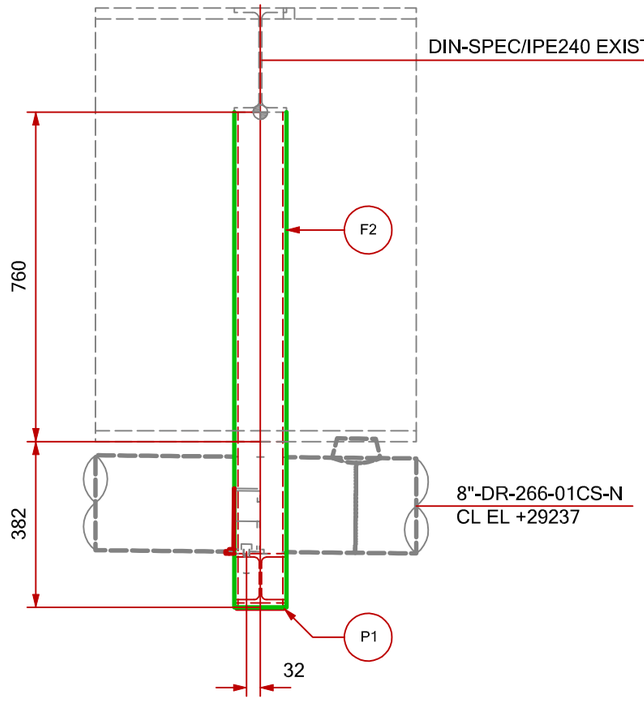
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02078

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

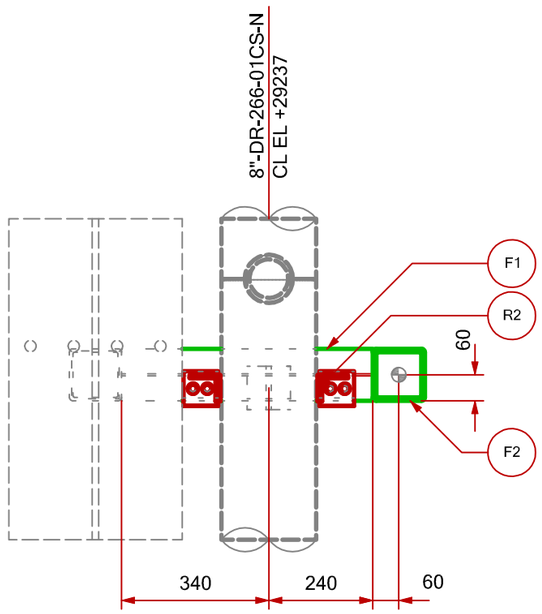
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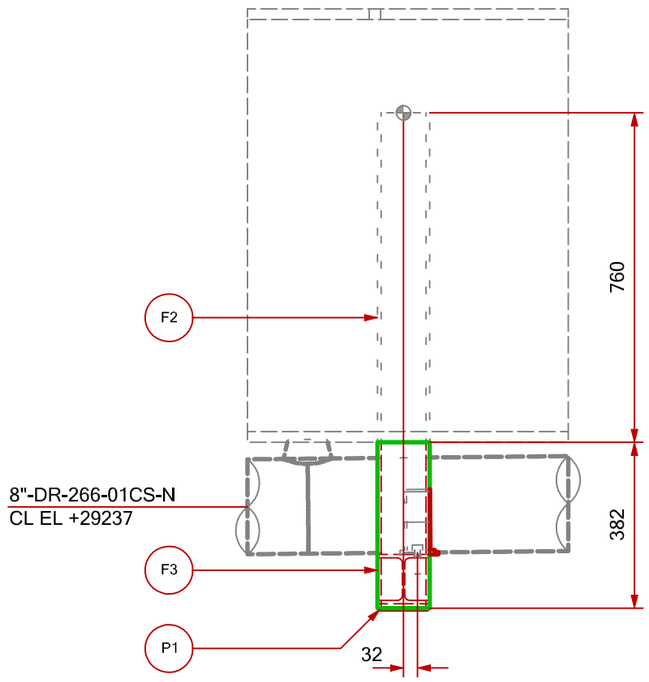
VIEW LOOKING NORTH



VIEW LOOKING WEST



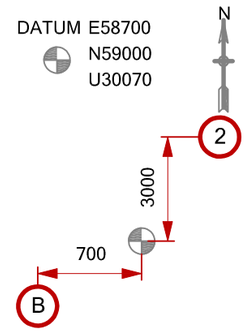
PLAN VIEW

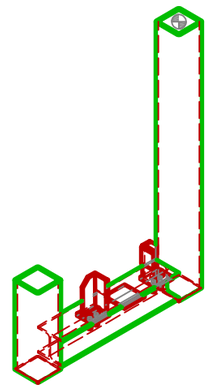


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	C-16-100-100-5	-	-	1	-	0.11	-
R2	STD	S-204-A-8"-2	-	-	1	-	2.91	0.076
F1	BEAM	HEA120	Carbon Steel	580	1	19,92	11.55	0.398
F2	BEAM	RHS120x120x8	Carbon Steel	1142	1	27.79	31.75	1.006
F3	BEAM	RHS120x120x8	Carbon Steel	382	1	27.79	10.63	0.342
P1	PLATE	3	Carbon Steel	110x110	2	-	0.56	0.024
						TOTAL	57.5	1.85





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

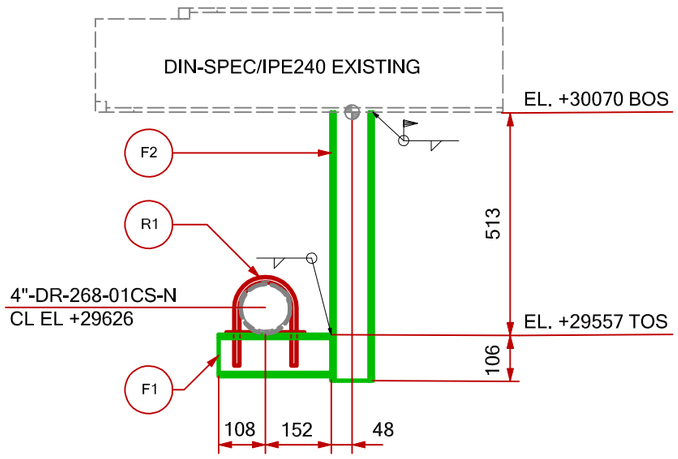
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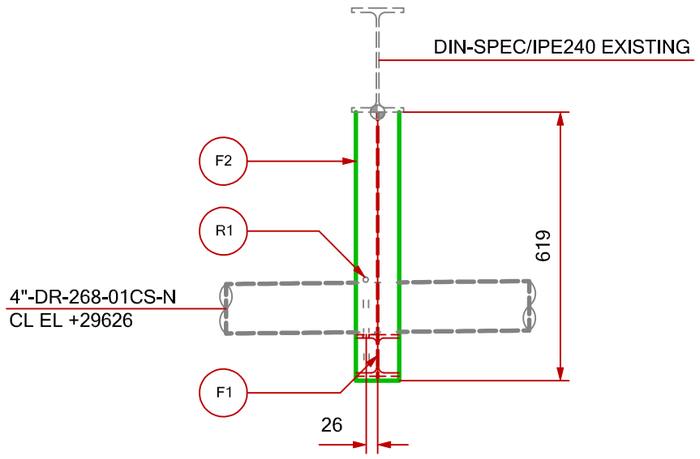
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02098

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1 : 10
DRAWN	CHECKED	APPROVED		DATE	19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1	REV. 00

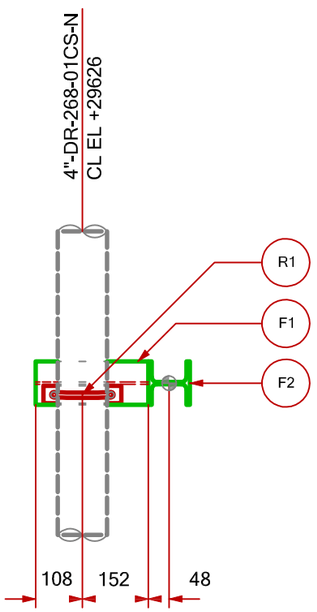
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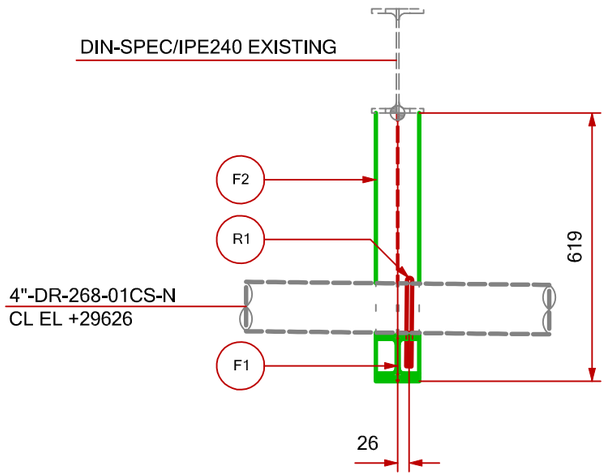
VIEW LOOKING NORTH



VIEW LOOKING WEST



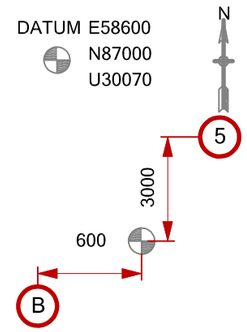
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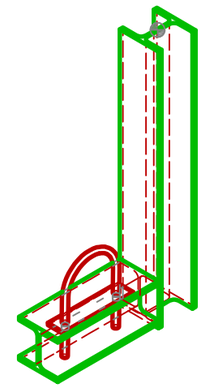


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
F1	BEAM	HEA100	Carbon Steel	260	1	16.69	4.34	0.150
F2	BEAM	HEA100	Carbon Steel	619	1	16.76	10.38	0.352
						TOTAL	15.7	0.50





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

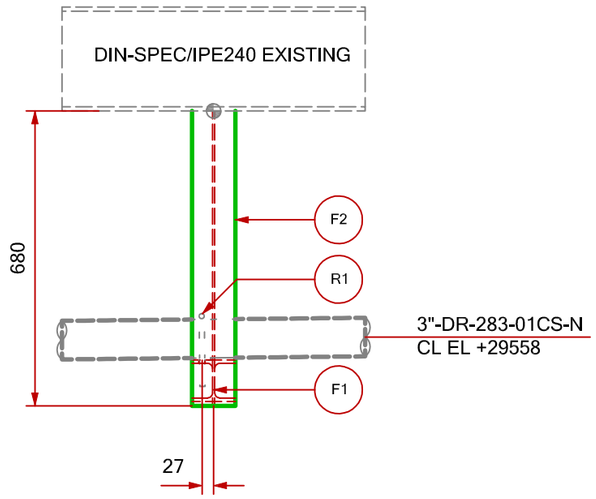
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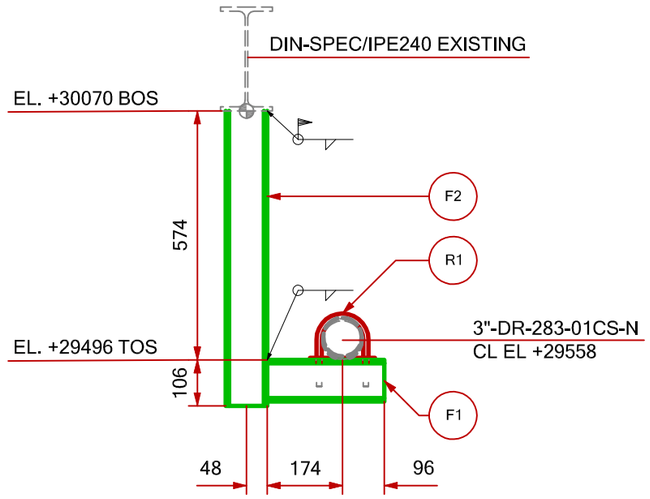
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02099

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000		SHEET 1 of 1 / REV. 00

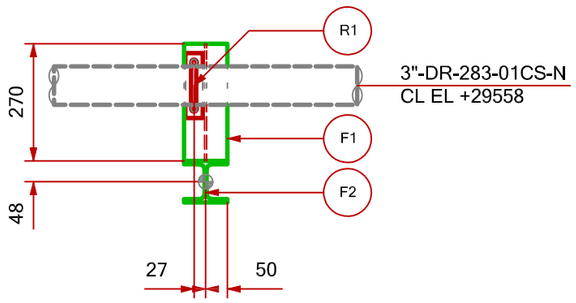
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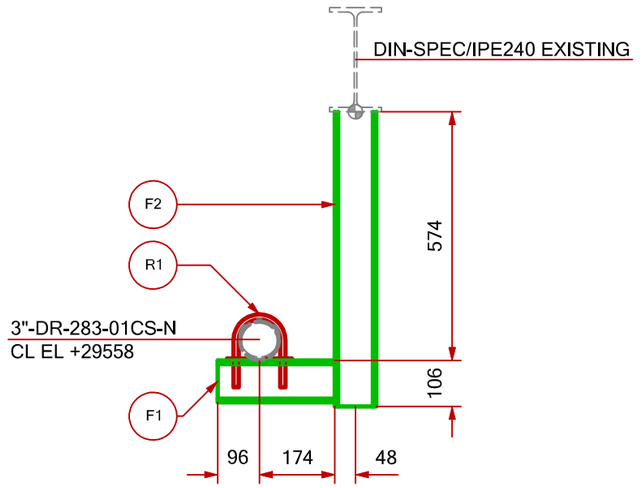
VIEW LOOKING NORTH



VIEW LOOKING WEST



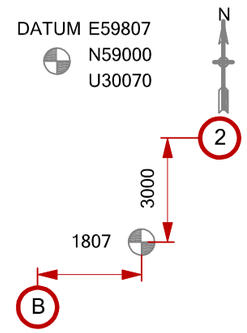
PLAN VIEW

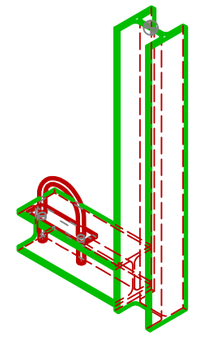


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
F1	BEAM	HEA100	Carbon Steel	270	1	16.69	4.51	0.156
F2	BEAM	HEA100	Carbon Steel	680	1	16.76	11.40	0.386
						TOTAL	16.8	0.54





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

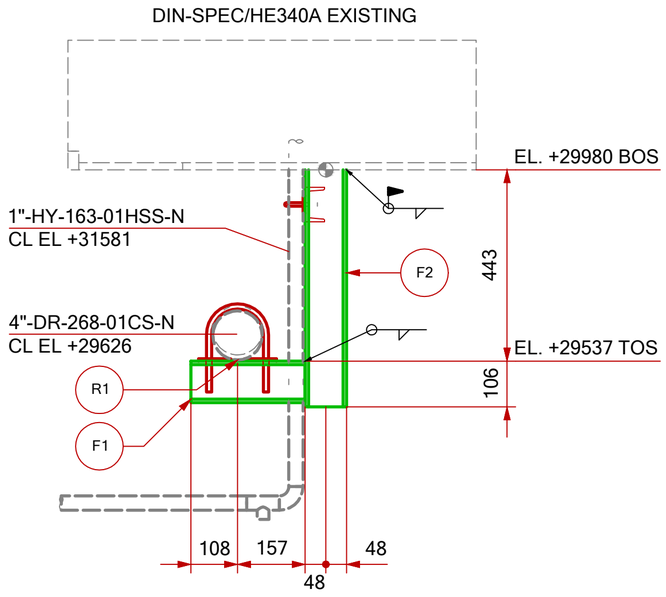
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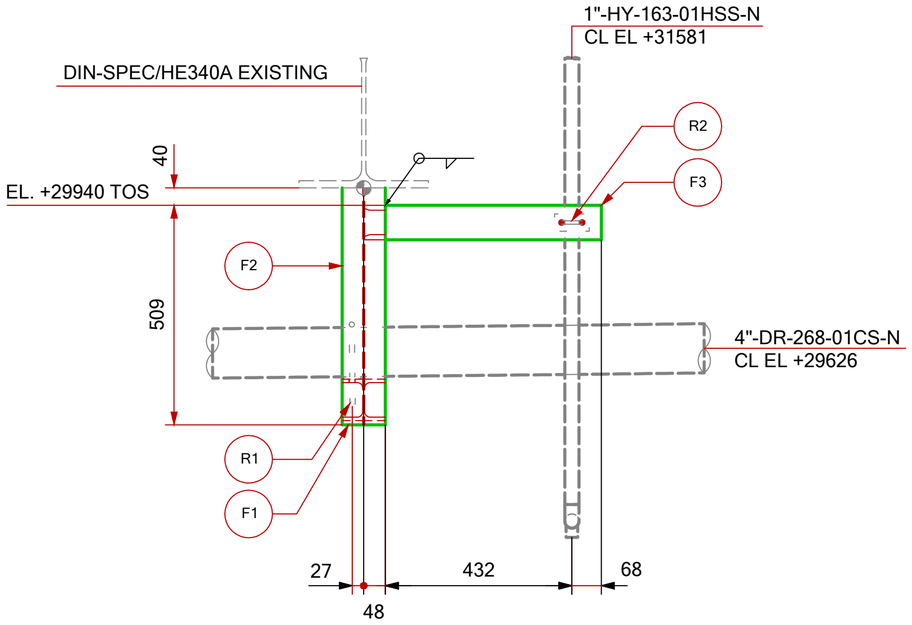
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02100

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

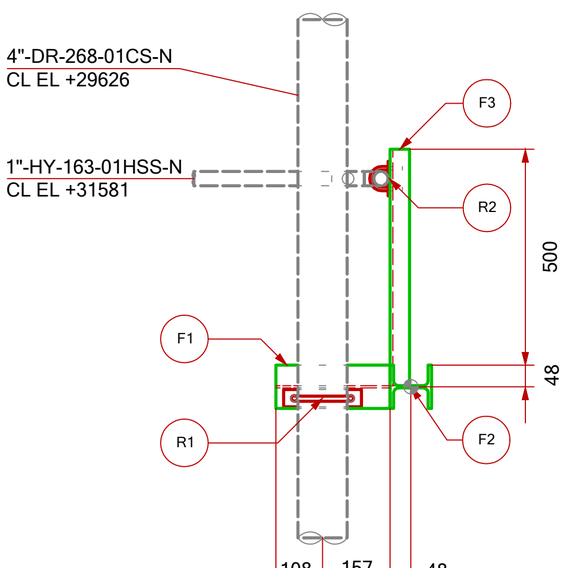
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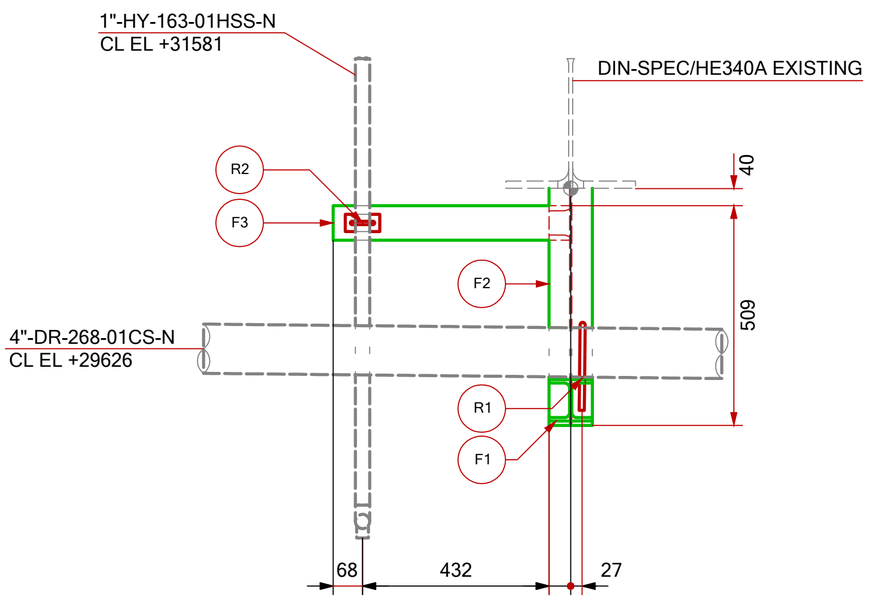
VIEW LOOKING NORTH



VIEW LOOKING WEST



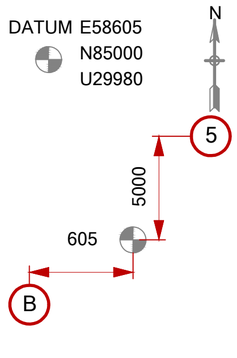
PLAN VIEW

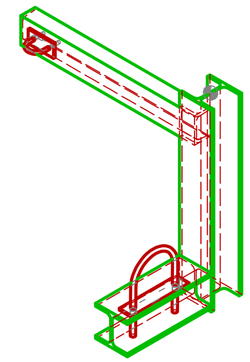


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
R2	STD	S-211-1"	-	-	1	-	0.29	-
F1	BEAM	HEA100	Carbon Steel	265	1	16.69	4.42	0.153
F2	BEAM	HEA100	Carbon Steel	549	1	16.76	9.20	0.312
F3	BEAM	UPN80	Carbon Steel	548	1	8.66	4.74	0.174
						TOTAL	19.6	0.64





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

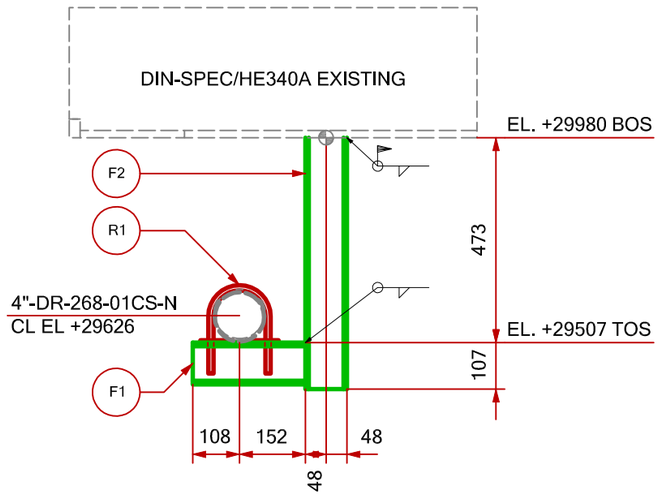
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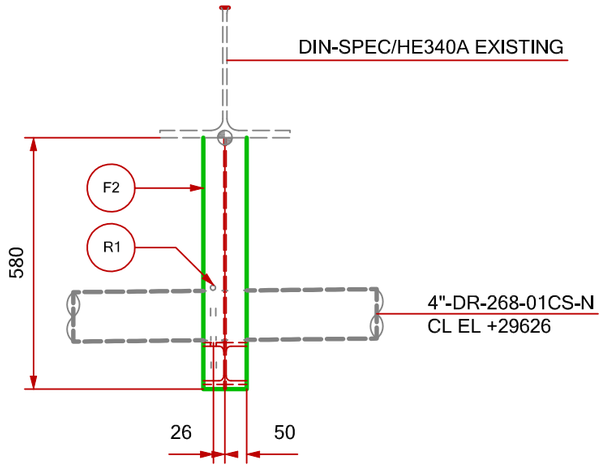
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02101

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

File Name :



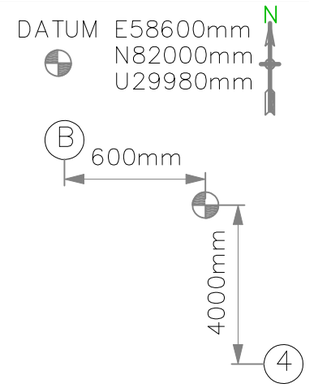
VIEW LOOKING NORTH

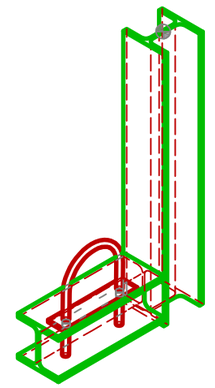


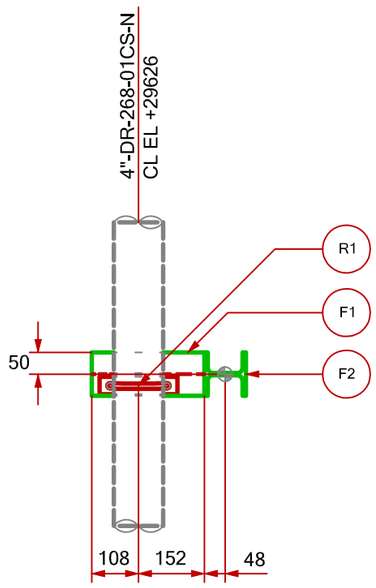
VIEW LOOKING WEST

SUPPORT MATERIAL LIST

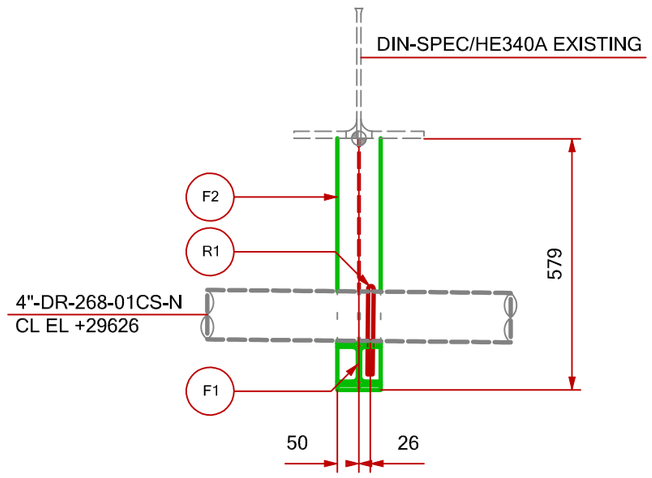
POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
F1	BEAM	HEA100	Carbon Steel	260	1	16.69	4.34	0.150
F2	BEAM	HEA100	Carbon Steel	580	1	16.76	9.72	0.330
						TOTAL	15.0	0.48







PLAN VIEW



VIEW LOOKING EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

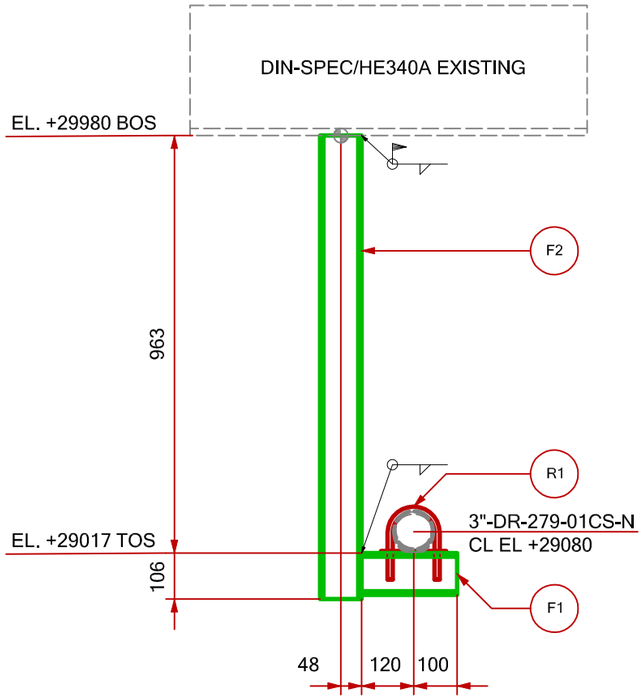
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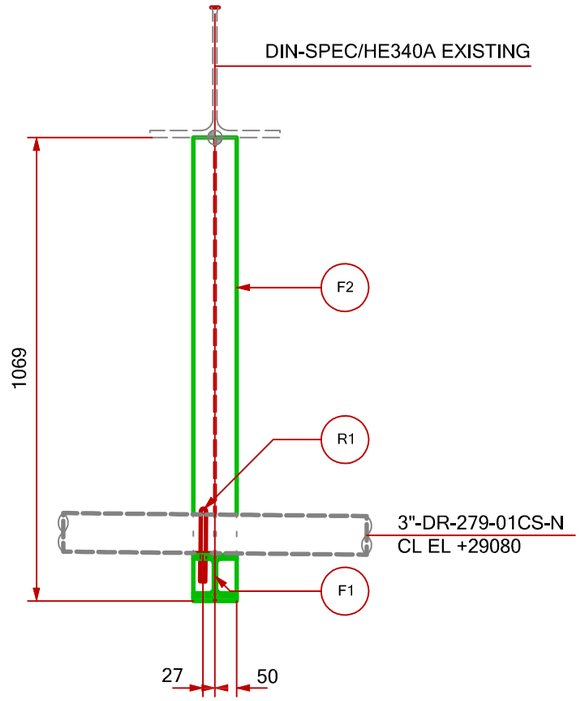
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02102

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1 : 10
DRAWN	CHECKED	APPROVED		DATE	19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1	REV. 00

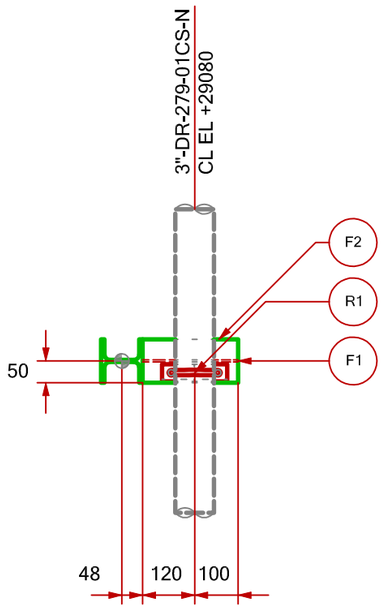
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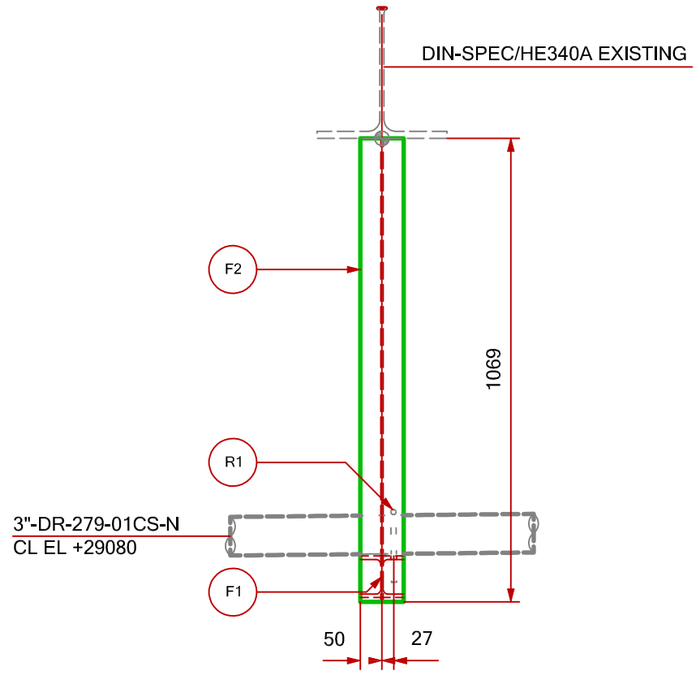
VIEW LOOKING NORTH



VIEW LOOKING WEST



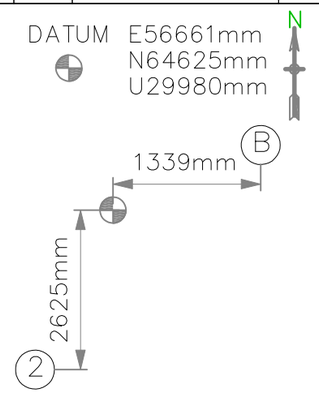
PLAN VIEW

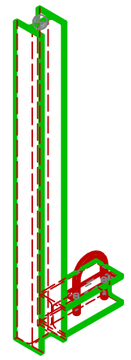


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
F1	BEAM	HEA100	Carbon Steel	220	1	16.68	3.67	0.128
F2	BEAM	HEA100	Carbon Steel	1069	1	16.76	17.92	0.604
						TOTAL	22.5	0.73





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

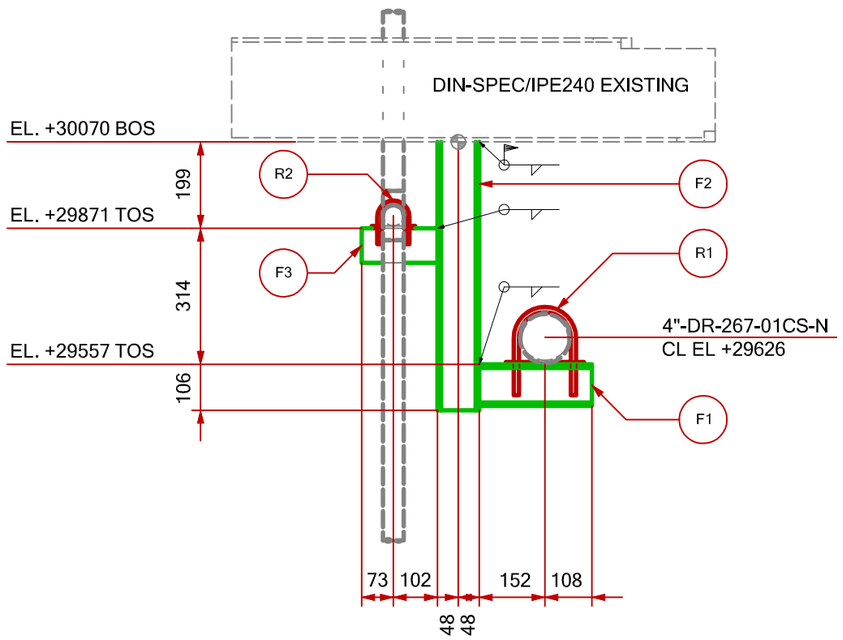
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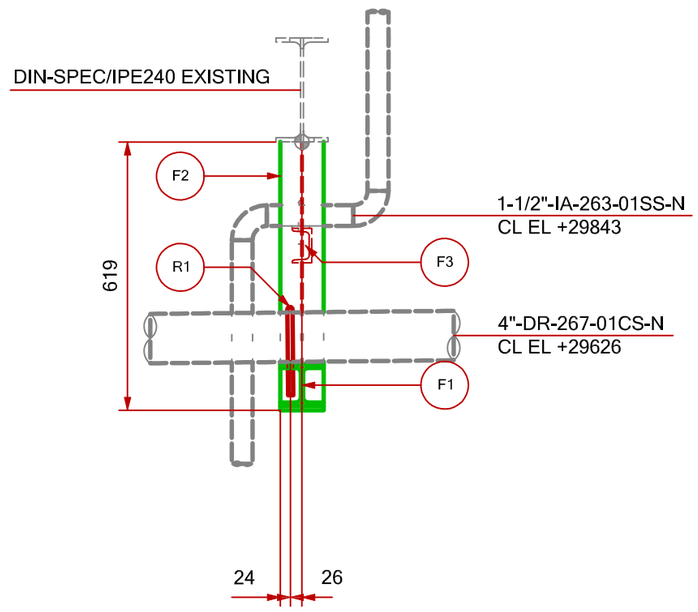
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02103

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1 : 10
DRAWN / CHECKED / APPROVED		DATE	19/08/24
DRAWING NO.	123A90-DDL-PP-DD-72000	SHEET	1 of 1
		REV.	00

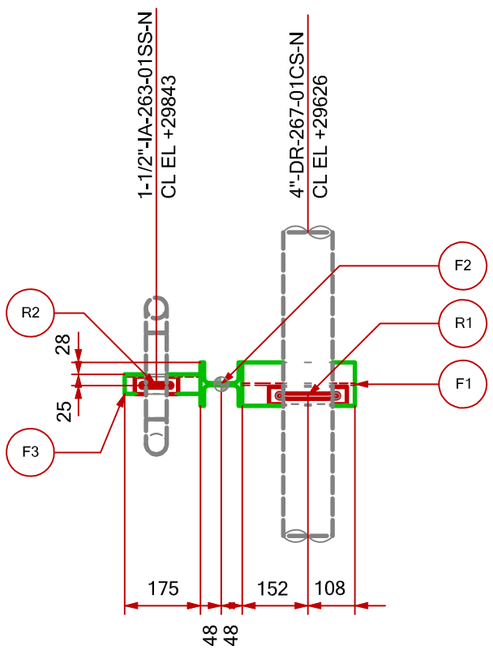
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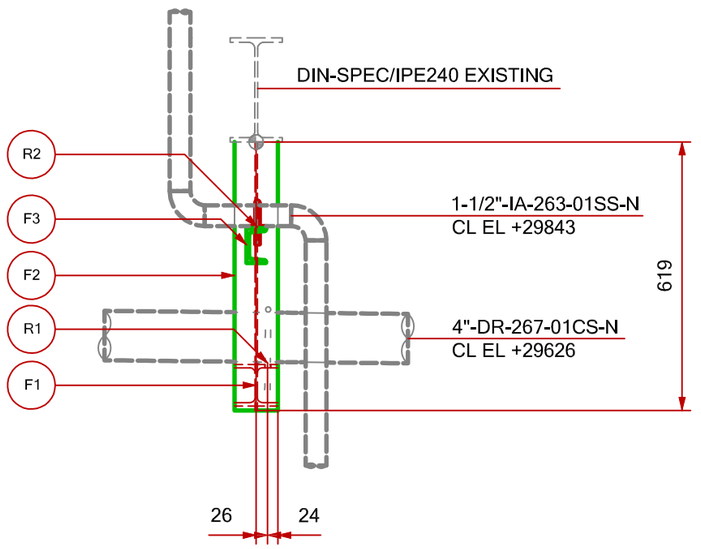
VIEW LOOKING NORTH



VIEW LOOKING WEST



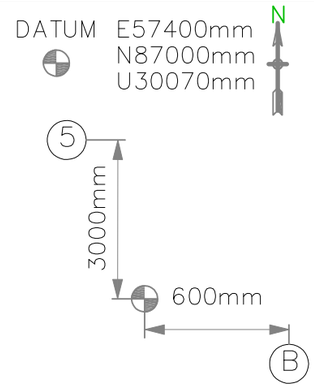
PLAN VIEW

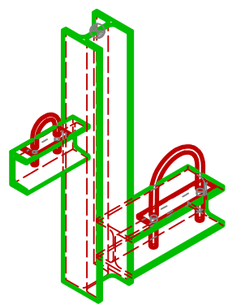


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
R2	STD	S-211-1 1/2"	-	-	1	-	0.49	-
F1	BEAM	HEA100	Carbon Steel	260	1	16.69	4.34	0.150
F2	BEAM	HEA100	Carbon Steel	619	1	16.76	10.38	0.352
F3	BEAM	UPN80	Carbon Steel	175	1	8.66	1.52	0.057
						TOTAL	17.7	0.56





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

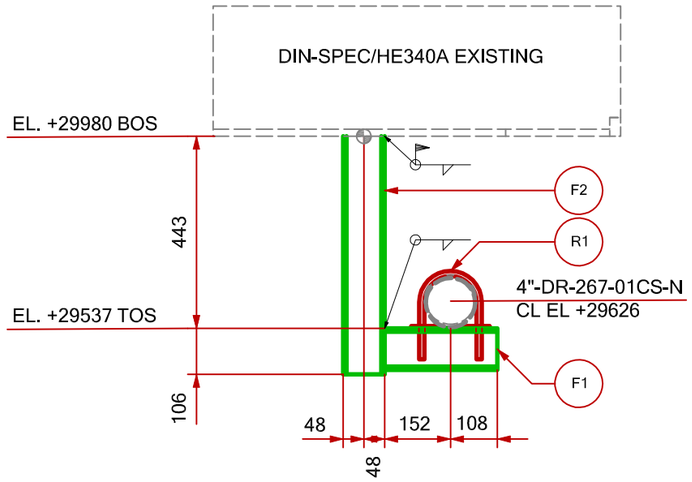
ROSETTI MARINO

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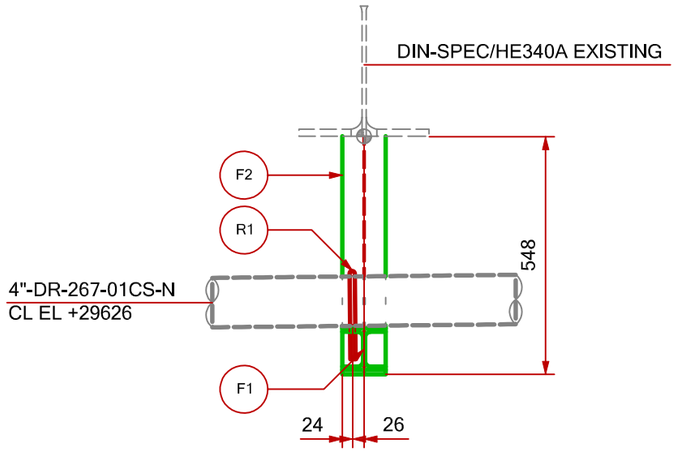
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02104

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

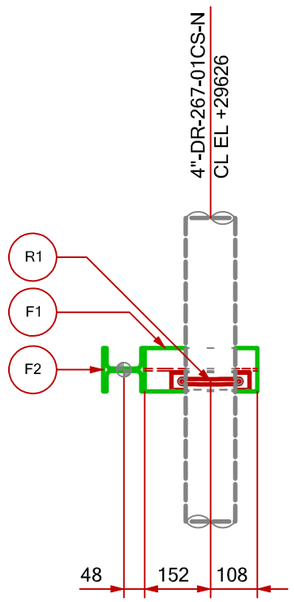
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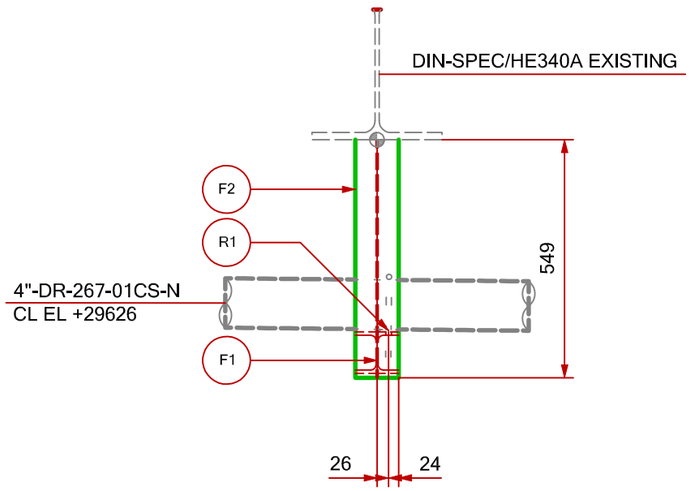
VIEW LOOKING NORTH



VIEW LOOKING WEST



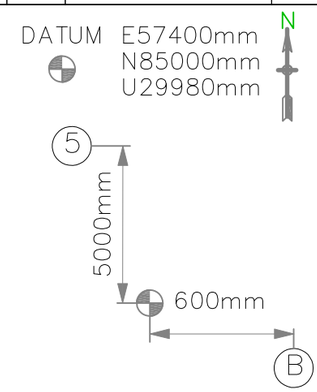
PLAN VIEW

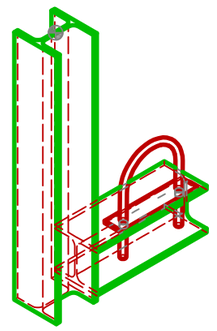


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
F1	BEAM	HEA100	Carbon Steel	260	1	16.69	4.34	0.150
F2	BEAM	HEA100	Carbon Steel	549	1	16.76	9.20	0.312
						TOTAL	14.5	0.46





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

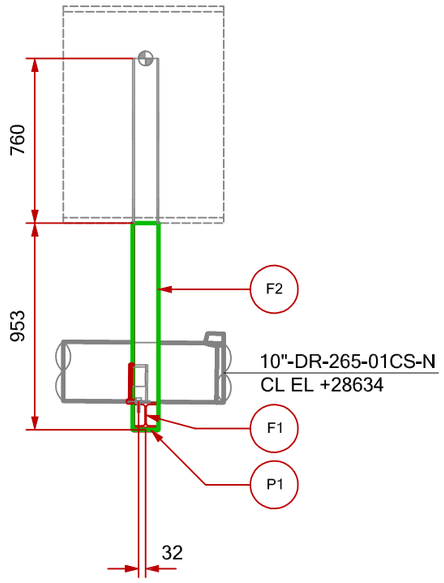
ROSETTI MARINO

TITLE :

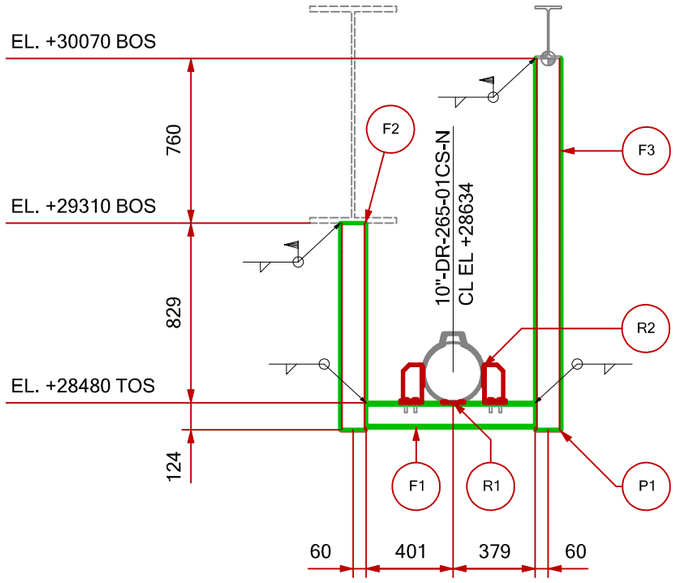
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02105

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

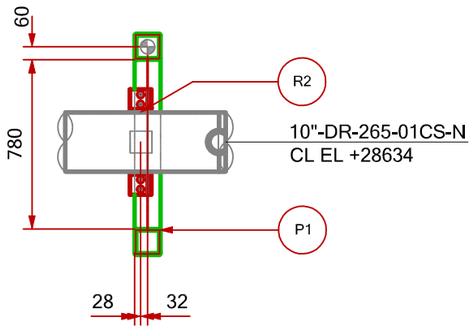
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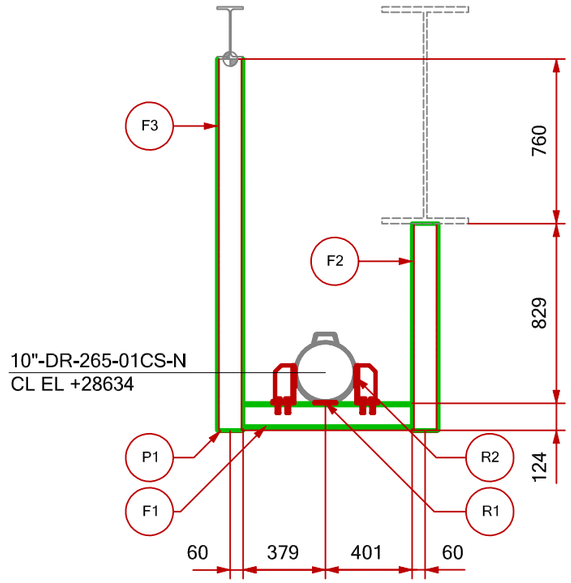
VIEW LOOKING NORTH



VIEW LOOKING WEST



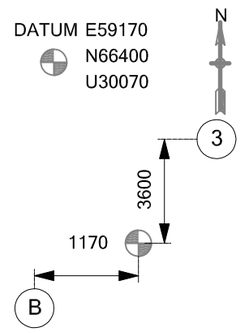
PLAN VIEW

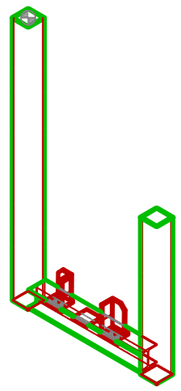


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	C-16-100-100-5	-	-	1	-	0.11	-
R2	STD	S-204-A-10"-2	-	-	1	-	3.50	0.090
F1	BEAM	HEA120	Carbon Steel	780	1	19.93	15.55	0.533
F2	BEAM	RHS120x120x8	Carbon Steel	953	1	27.79	26.48	0.841
F3	BEAM	RHS120x120x8	Carbon Steel	1713	1	27.79	47.60	1.506
P1	PLATE	3	Carbon Steel	110x110	2	-	0.56	0.024
						TOTAL	93.8	2.99





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

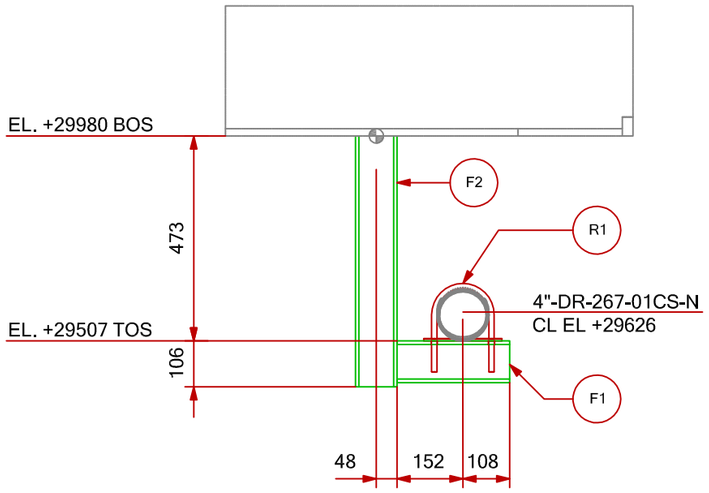
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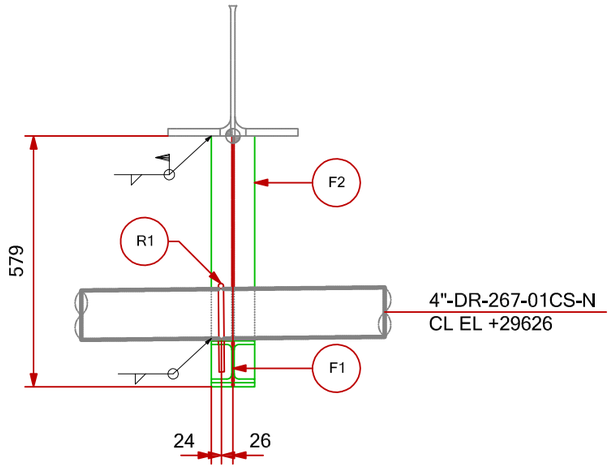
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02106

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 20
DRAWN	CHECKED	APPROVED	DATE 19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000	SHEET 1 of 1	REV. 00

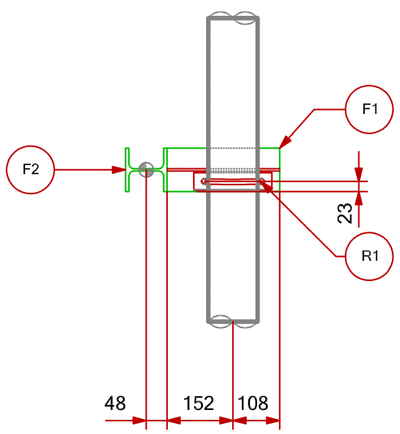
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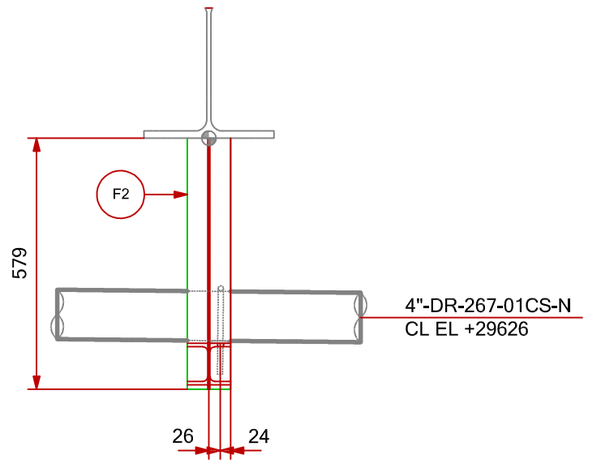
VIEW LOOKING NORTH



VIEW LOOKING WEST



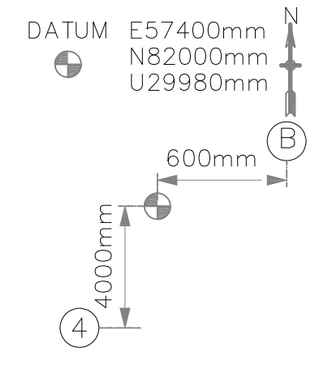
PLAN VIEW

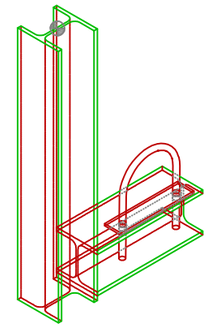


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-4"	-	-	1	-	0.96	-
F1	BEAM	HEA100	Carbon Steel	260	1	16.69	4.34	0.150
F2	BEAM	HEA100	Carbon Steel	579	1	16.76	9.71	0.329
						TOTAL	15.0	0.48





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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CROSSWIND

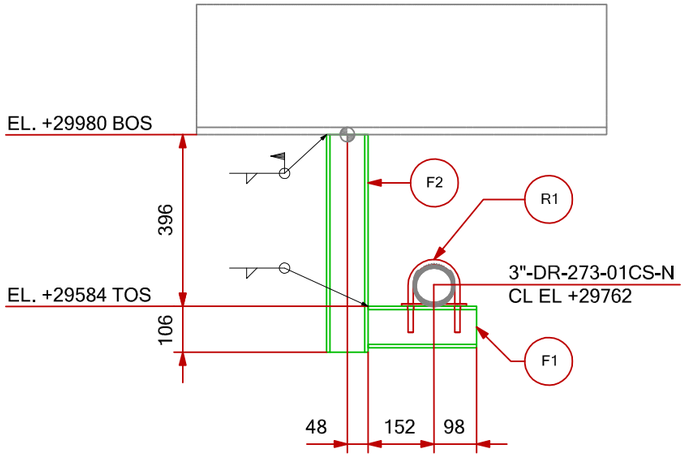
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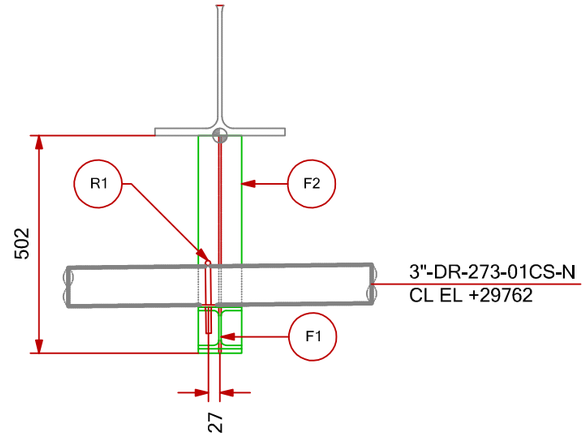
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02107

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000		SHEET 1 of 1 / REV. 00

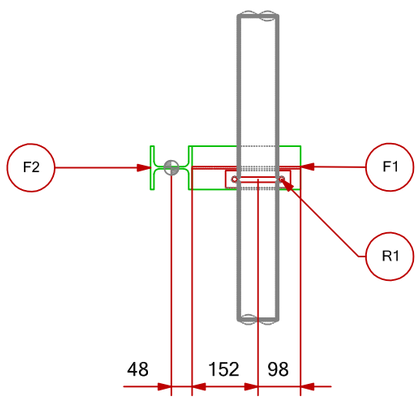
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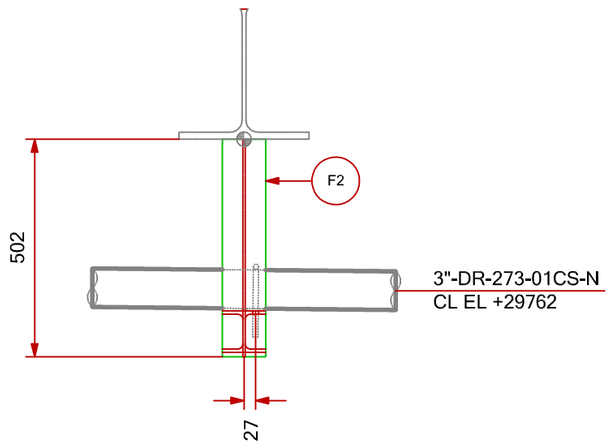
VIEW LOOKING NORTH



VIEW LOOKING WEST



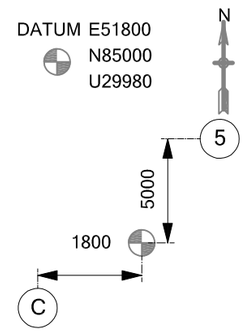
PLAN VIEW

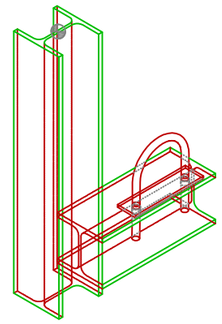


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
F1	BEAM	HEA100	Carbon Steel	250	1	16.69	4.17	0.145
F2	BEAM	HEA100	Carbon Steel	502	1	16.76	8.41	0.286
						TOTAL	13.5	0.43





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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CROSSWIND

ROSETTI MARINO

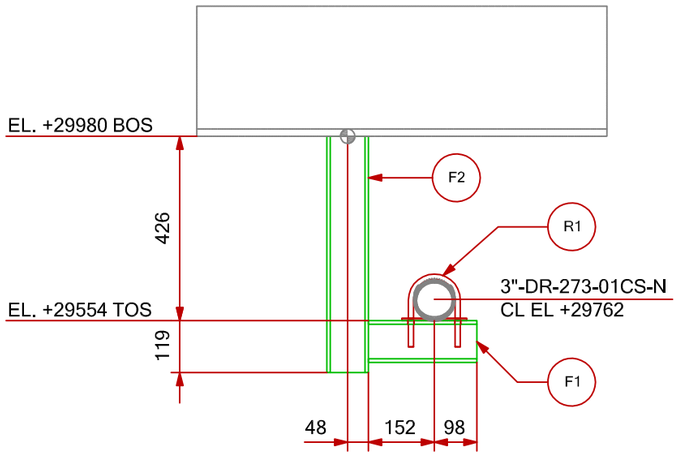
TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings

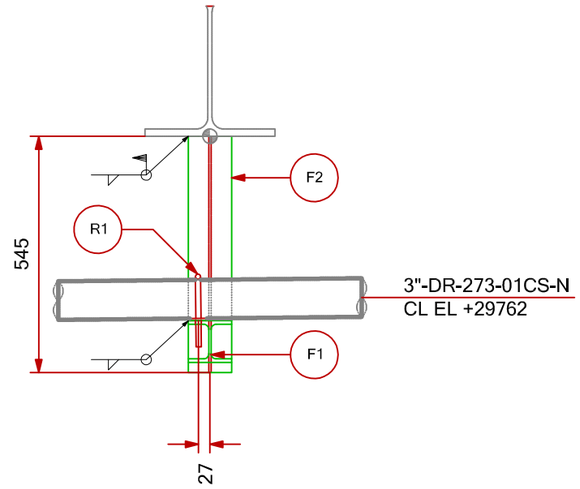
PS-02108

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000	SHEET 1 of 1	REV. 00

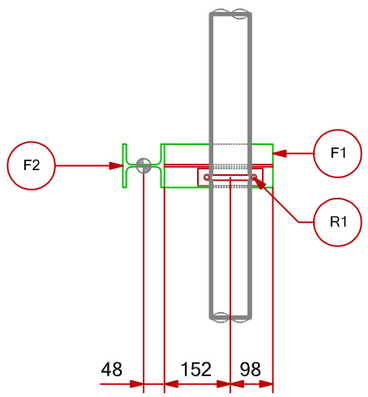
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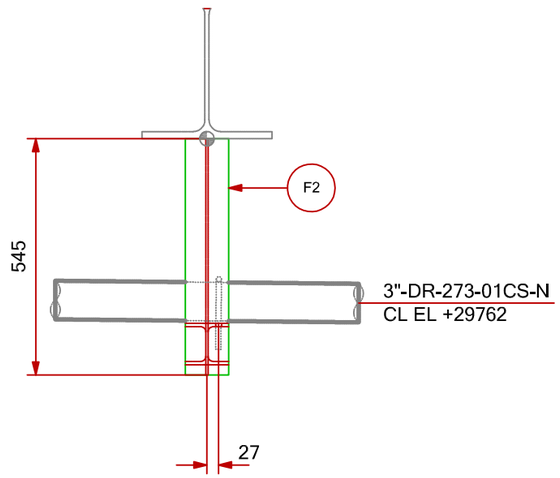
VIEW LOOKING NORTH



VIEW LOOKING WEST



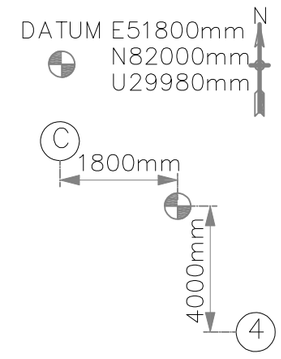
PLAN VIEW

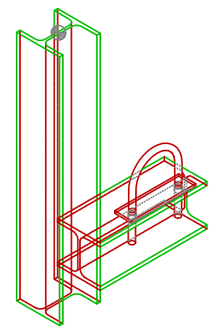


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
F1	BEAM	HEA100	Carbon Steel	250	1	16.69	4.17	0.145
F2	BEAM	HEA100	Carbon Steel	545	1	16.76	9.13	0.310
						TOTAL	14.2	0.45





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

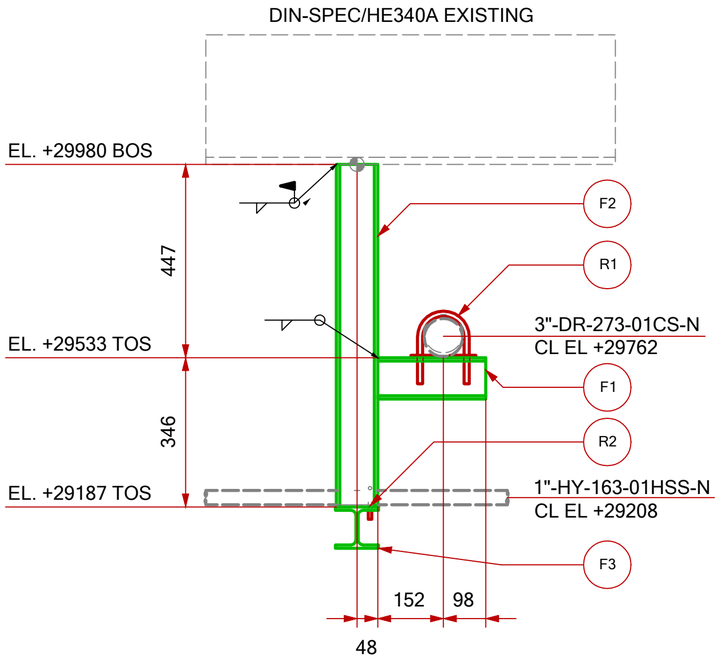
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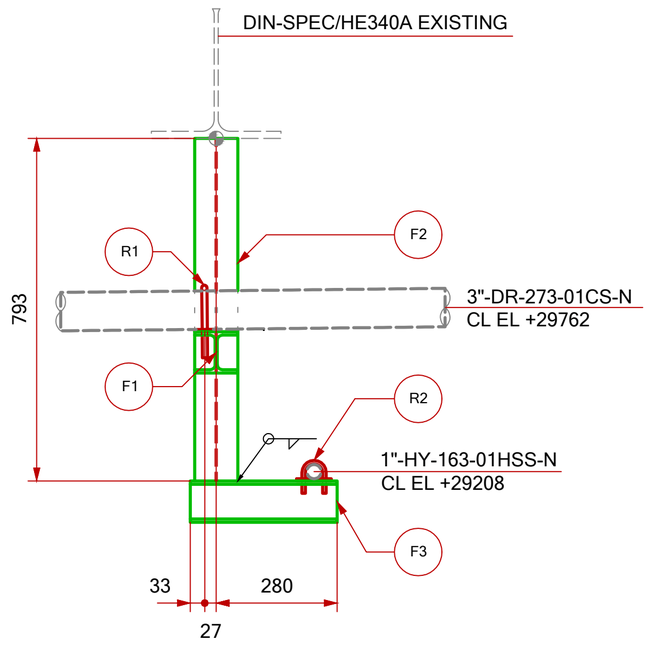
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02109

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

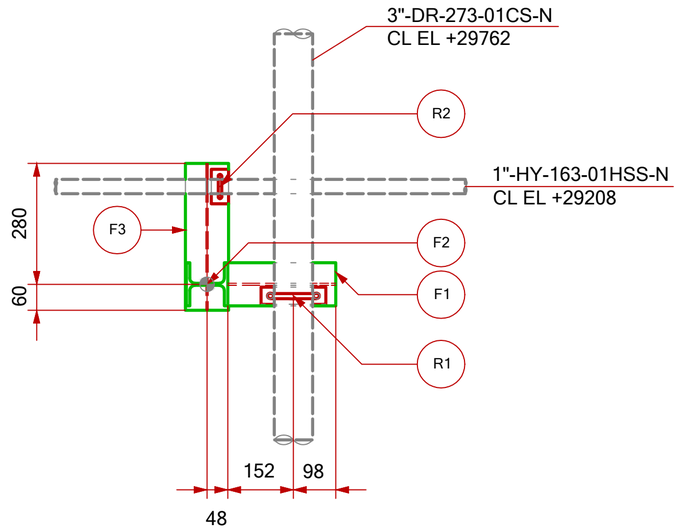
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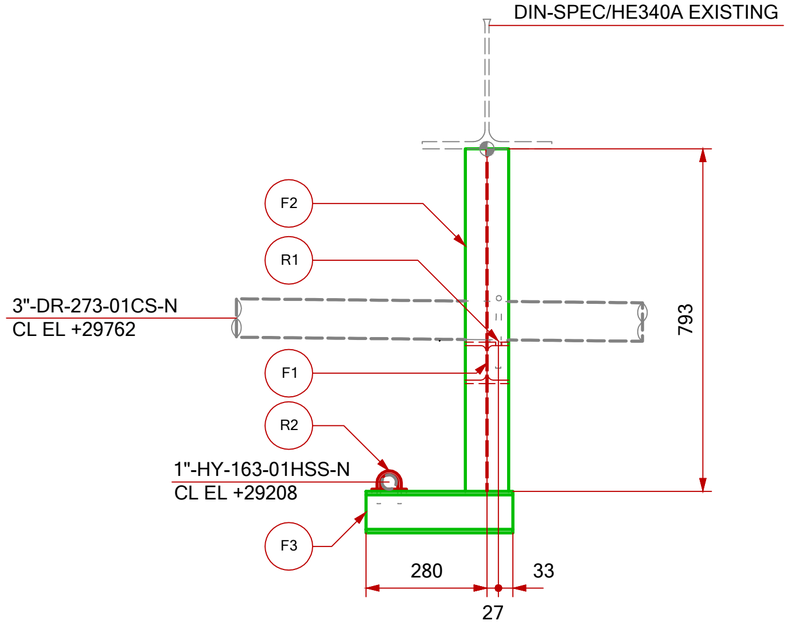
VIEW LOOKING NORTH



VIEW LOOKING WEST



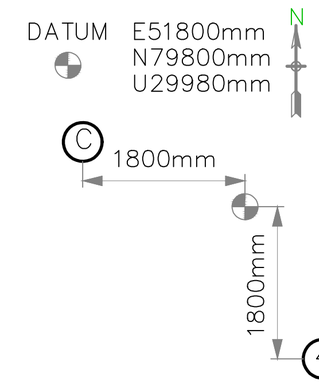
PLAN VIEW

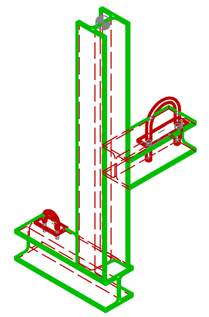


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
R2	STD	S-211-1"	-	-	1	-	0.29	-
F1	BEAM	HEA100	Carbon Steel	250	1	16.69	4.17	0.145
F2	BEAM	HEA100	Carbon Steel	793	1	16.76	13.29	0.449
F3	BEAM	HEA100	Carbon Steel	340	1	16.76	5.70	0.195
						TOTAL	24.3	0.79





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

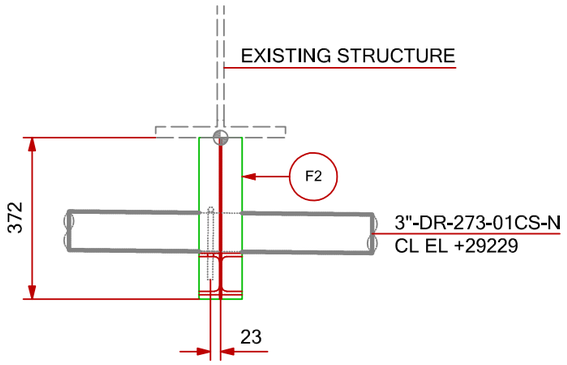
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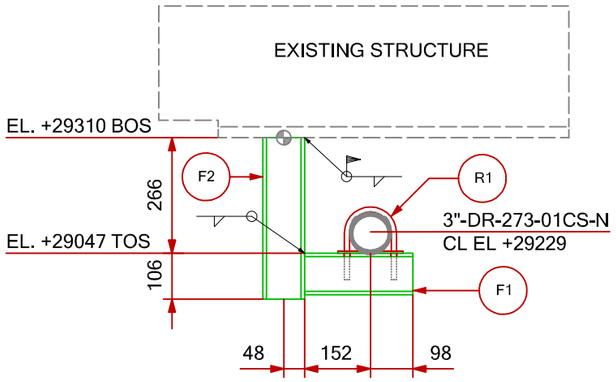
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02110

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000		SHEET 1 of 1 / REV. 00

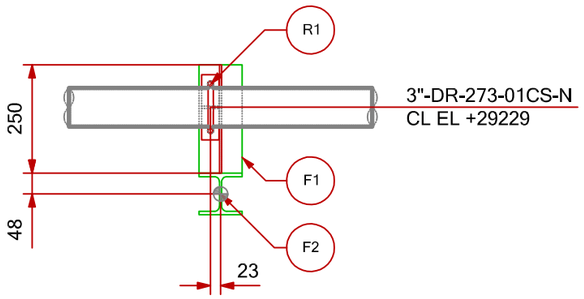
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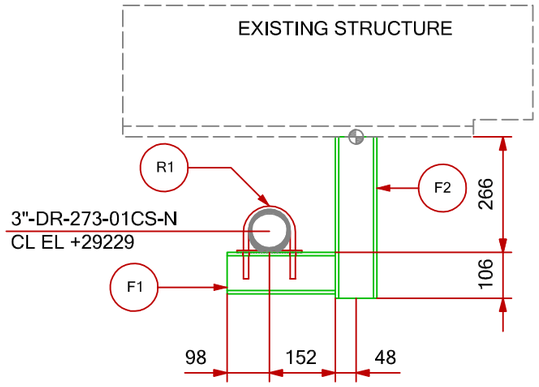
VIEW LOOKING NORTH



VIEW LOOKING WEST



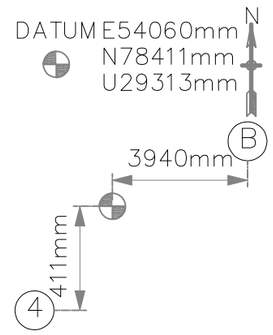
PLAN VIEW

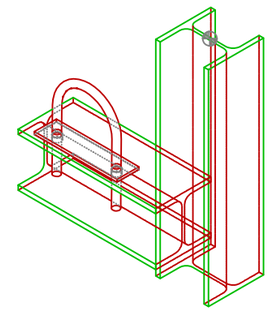


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-3"	-	-	1	-	0.87	-
F1	BEAM	HEA100	Carbon Steel	250	1	16.69	4.17	0.145
F2	BEAM	HEA100	Carbon Steel	372	1	16.76	6.24	0.213
						TOTAL	11.3	0.36





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

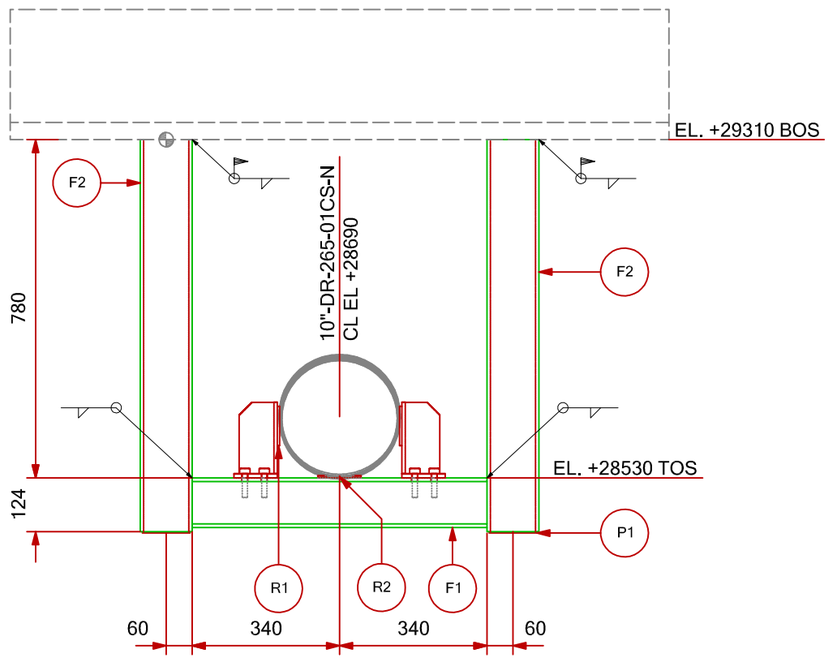
TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings

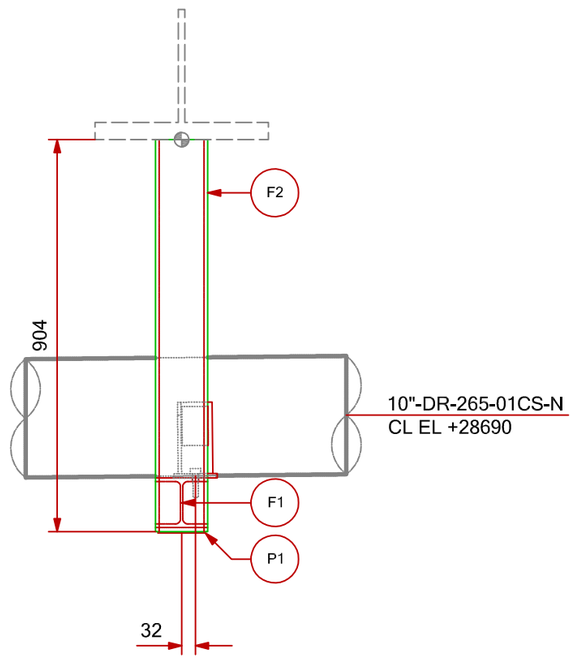
PS-02111

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

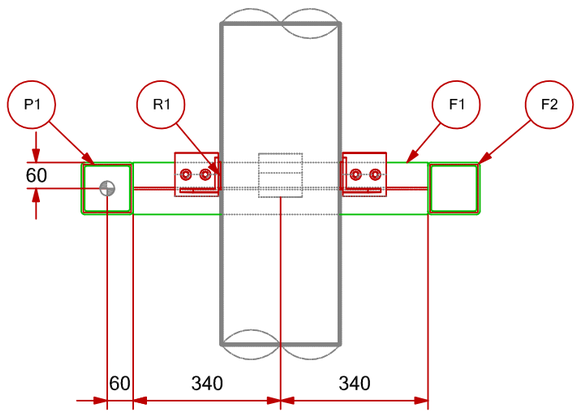
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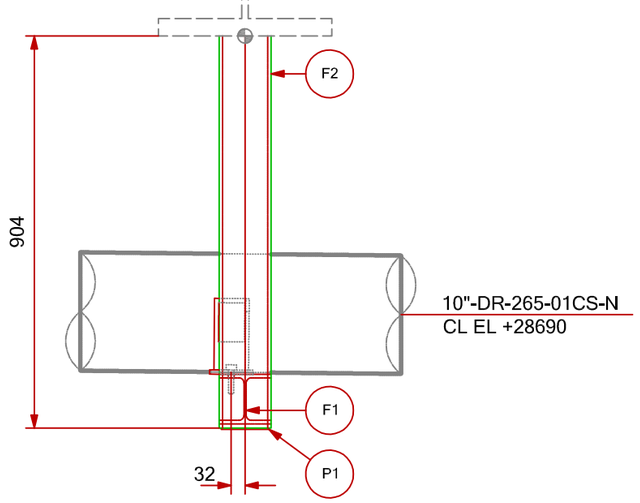
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VIEW LOOKING WEST



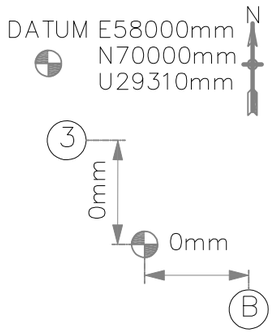
PLAN VIEW

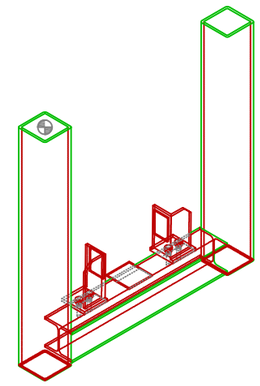


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-204-A-10"-2	-	-	1	-	3.50	0.090
R2	STD	C-16-100-100-5	-	-	1	-	0.11	-
F1	BEAM	HEA120	Carbon Steel	680	1	19,93	13,55	0.466
F2	BEAM	RHS120x120x8	Carbon Steel	904	2	27.79	50.26	1.596
P1	PLATE	3	Carbon Steel	110x110	2	-	0.56	0.024
						TOTAL	68.0	2.18





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

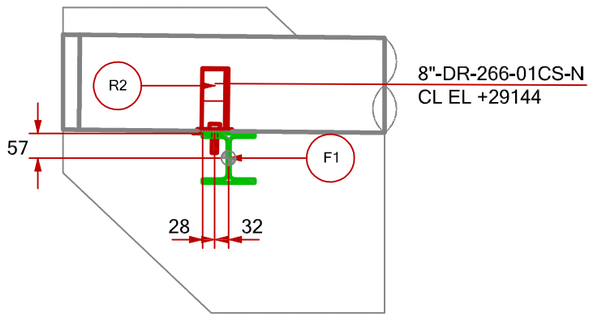
TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings

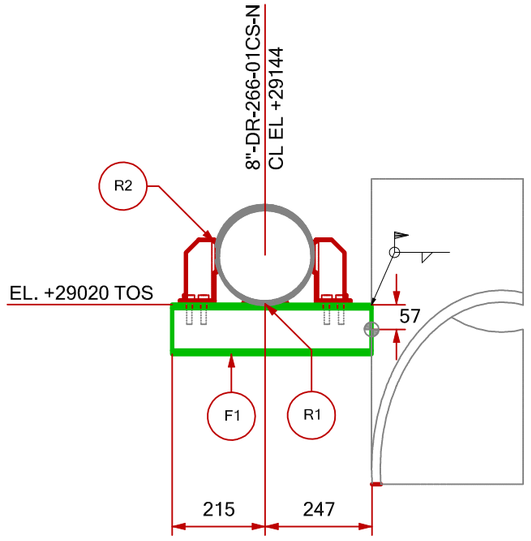
PS-02112

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1 : 10
DRAWN	CHECKED	APPROVED		DATE	19/08/24
	DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1	REV. 00

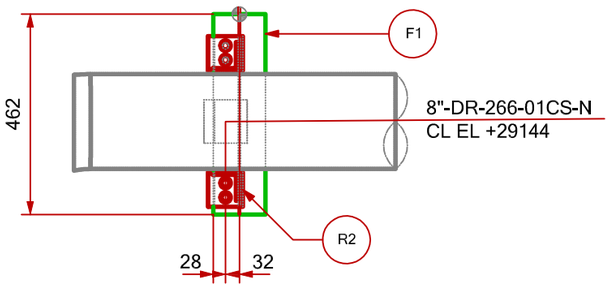
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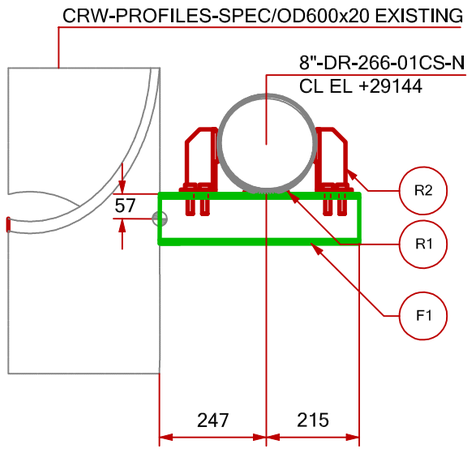
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VIEW LOOKING WEST



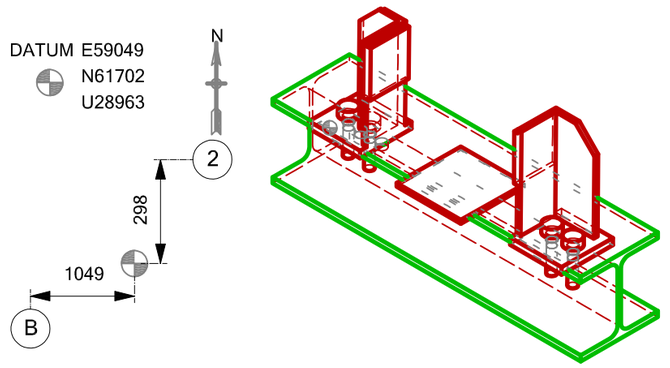
PLAN VIEW



VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	C-16-100-100-5	-	-	1	-	0.11	-
R2	STD	S-204-A-8"-2	-	-	1	-	2.91	0.076
F1	BEAM	HEA120	Carbon Steel	462	1	19.94	9.58	0.330
						TOTAL	12.6	0.41



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

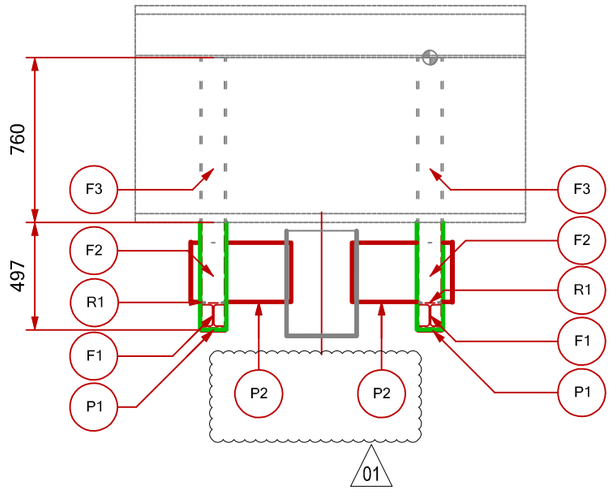
TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings

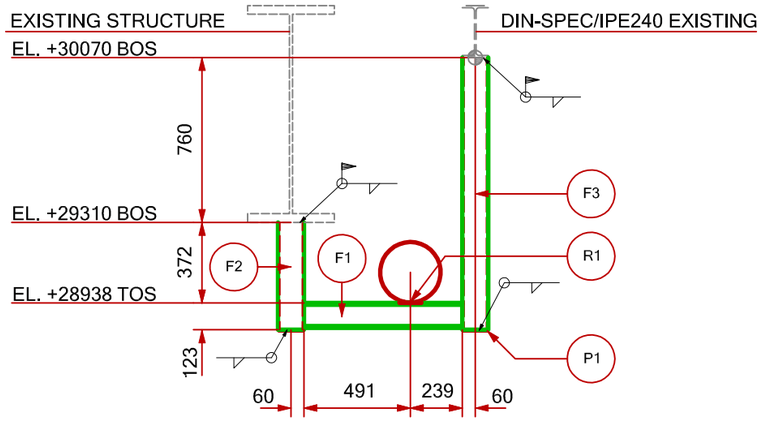
PS-02113

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

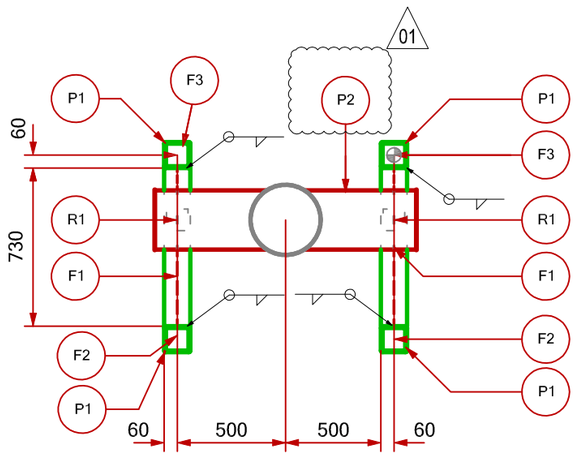
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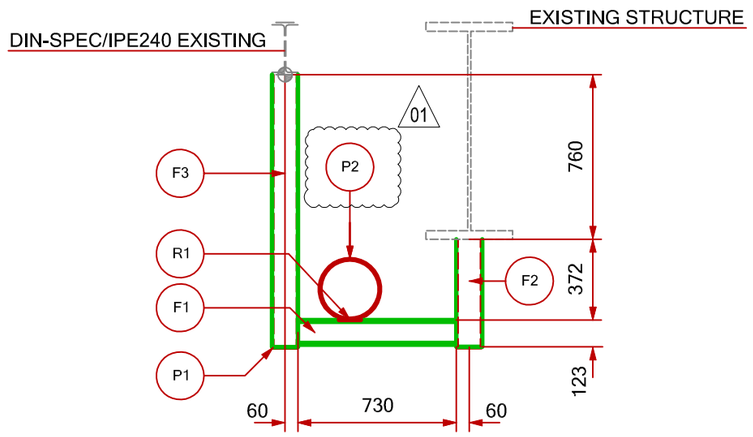
VIEW LOOKING NORTH



VIEW LOOKING WEST



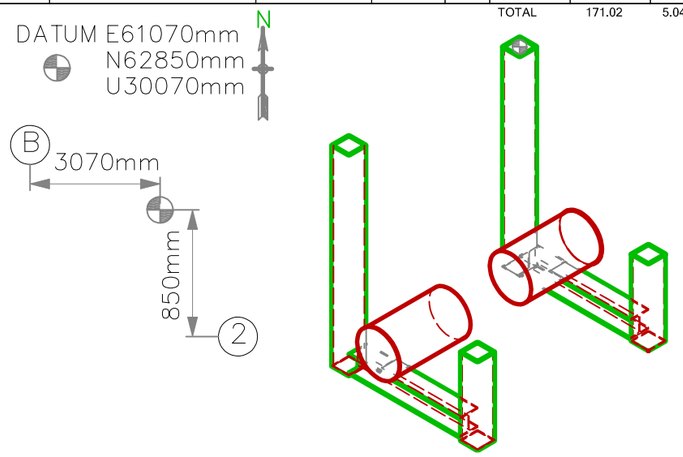
PLAN VIEW



VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	C-16-100-100-5	-	-	2	-	0.22	-
F1	BEAM	HEA120	Carbon Steel	730	2	19.98	29.17	0.998
F2	BEAM	RHS120x120x8	Carbon Steel	495	2	27.79	27.62	0.882
F3	BEAM	RHS120x120x8	Carbon Steel	1255	2	27.79	69.84	2.212
P1	PLATE	3	Carbon Steel	110x110	4	-	1.12	0.048
P2	PIPE	ASME B36.10M PE 6.35 SML ASTM/ASME A	SA333.GR6	Φ273.1x515	2	-	43.05	0.90
						TOTAL	171.02	5.04



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	04/11/24	MMA	SLO	DLO	ACCEPTED FOR CONSTRUCTION

CROSSWIND

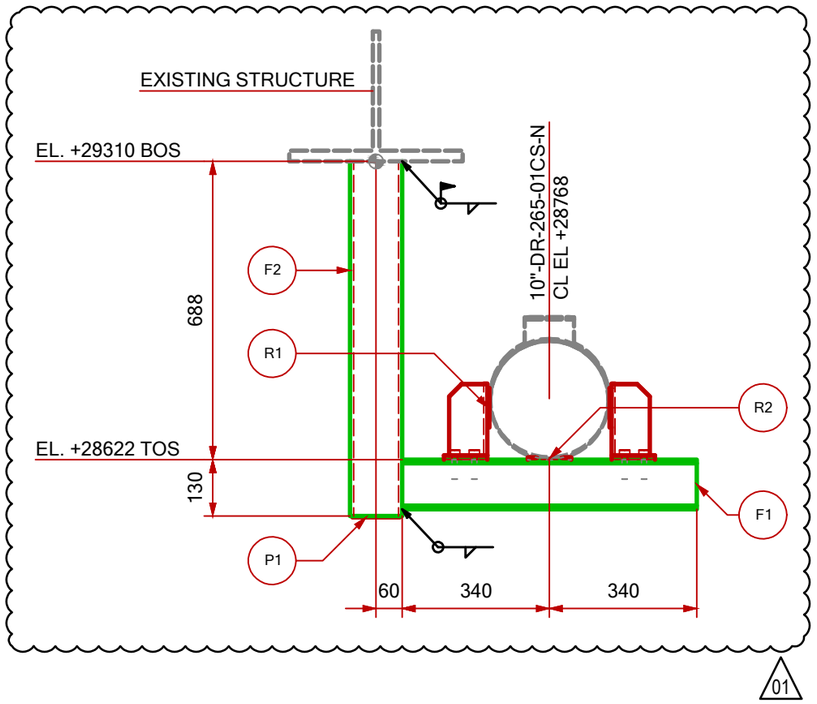
ROSETTI MARINO

TITLE :

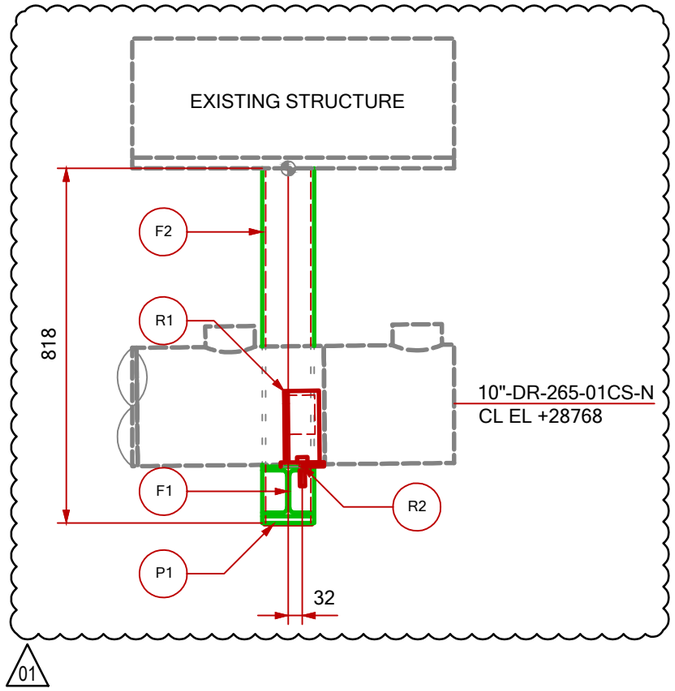
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02114

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1 : 20
DRAWN	CHECKED / APPROVED	DATE	04/11/24
DRAWING NO.	123A90-DDL-PP-DD-72000	SHEET	1 of 1
		REV.	01

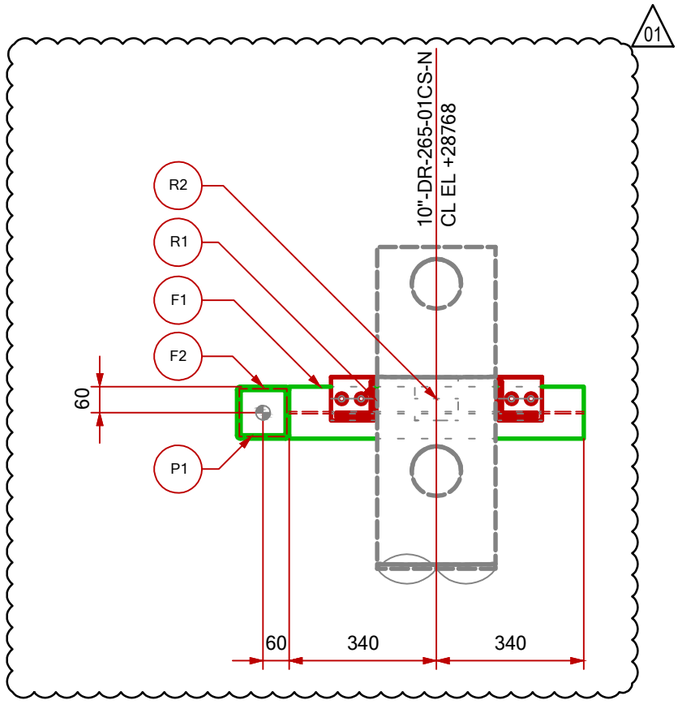
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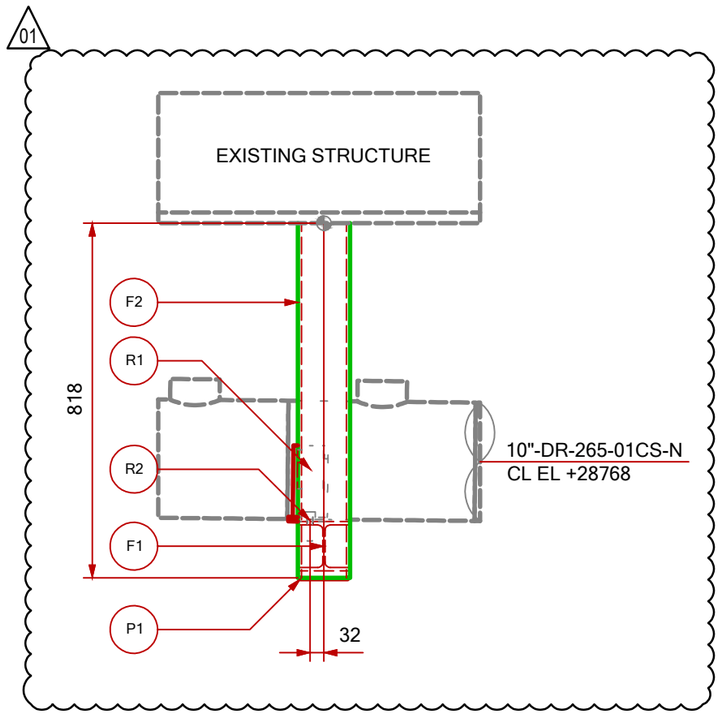
VIEW LOOKING NORTH



VIEW LOOKING WEST



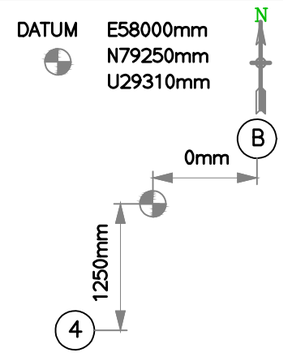
PLAN VIEW

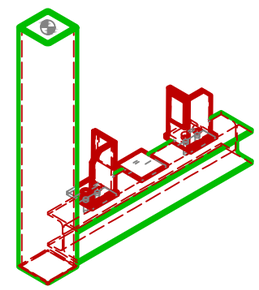


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-204-A-10"-2	-	-	1	-	3.50	0.090
R2	STD	C-16-100-100-5	-	-	1	-	0.11	-
F1	BEAM	HEA120	Carbon Steel	680	1	19.93	13.55	0.466
F2	BEAM	RHS120x120x8	Carbon Steel	818	1	27.79	22.74	0.723
P1	PLATE	3	Carbon Steel	110x110	1	-	0.28	0.024
						TOTAL	40.18	1.303





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	04/11/24	MMA	SLO	DLO	ACCEPTED FOR CONSTRUCTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

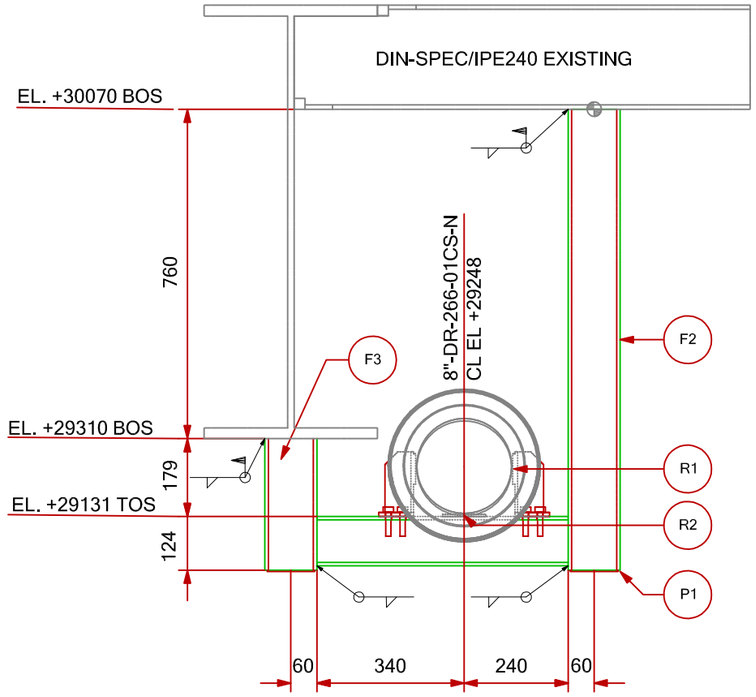
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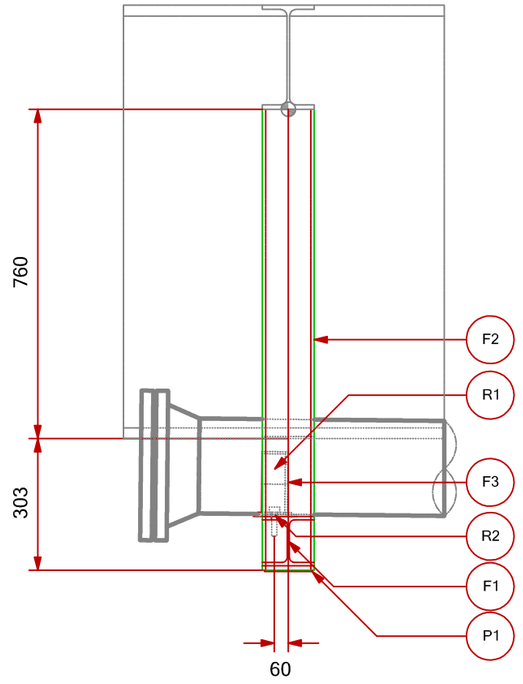
BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02115

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 04/11/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 01

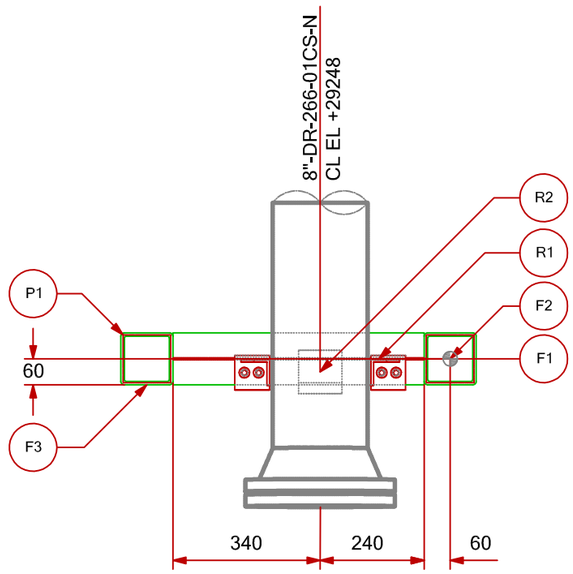
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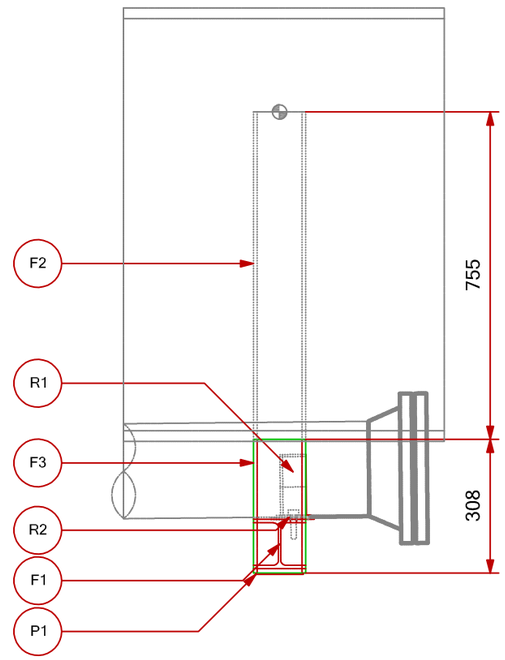
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VIEW LOOKING WEST



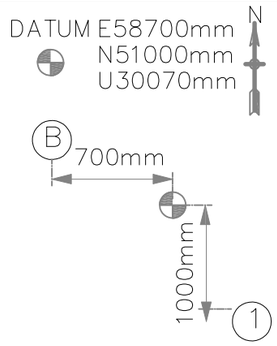
PLAN VIEW

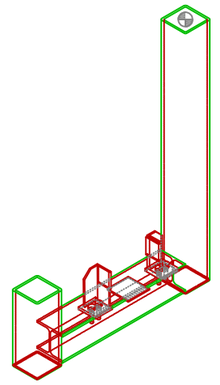


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-204-A-8"-2	-	-	1	-	2.91	0.076
R2	STD	C-16-100-100-5	-	-	1	-	0.11	-
F1	BEAM	HEA120	Carbon Steel	580	1	19,92	11.55	0.398
F2	BEAM	RHS120x120x8	Carbon Steel	1063	1	27.79	29.55	0.937
F3	BEAM	RHS120x120x8	Carbon Steel	303	1	27.79	8.57	0.277
P1	PLATE	3	Carbon Steel	110x110	2	-	0.56	0.024
						TOTAL	53.3	1.71





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02116

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

File Name :

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STANDARD SPECIFICATION
PIPE SUPPORT DETAIL STANDARD

Document Number: STD–PP–DD–0001

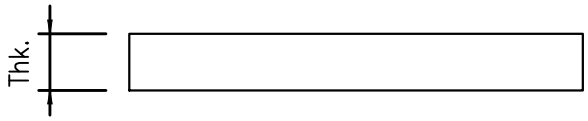
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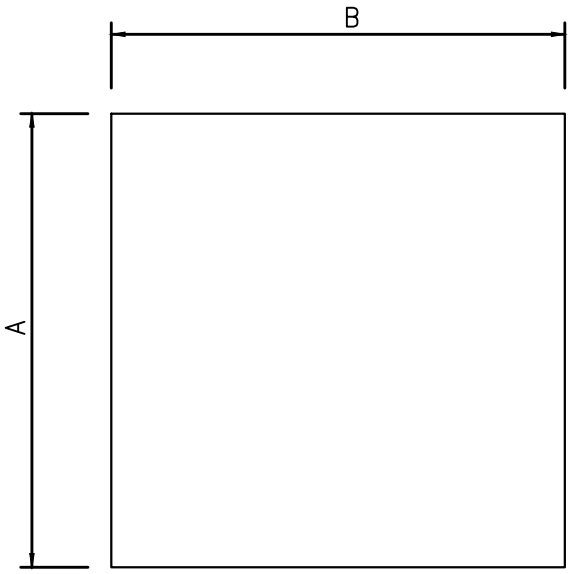
Date: –

PIATTO DI ISOLAMENTO IN PTFE Sp=VARIABILE
PTFE ISOLATING PAD Thk=VARIABLE

C–16

Example of designation : STD – A – B – Thk.
(C–16 – 70 – 100 – 5)





NOTES:
1– MATERIAL: PTFE
2– STRENGHT FOR COMPRESSION (1% DI DEFORMATION) = 5 N/mm² x Thk. (mm)
3– THE PTFE PAD SHALL BE COVERED ALSO AFTER THE POSSIBLE DISPLACEMENTS OF THE PIPING LINE

Revision Number	Date	Description	DRAW	CHKD.	APPR.
00	–	ISSUED FOR REVIEW	SLO	GMA	MCO

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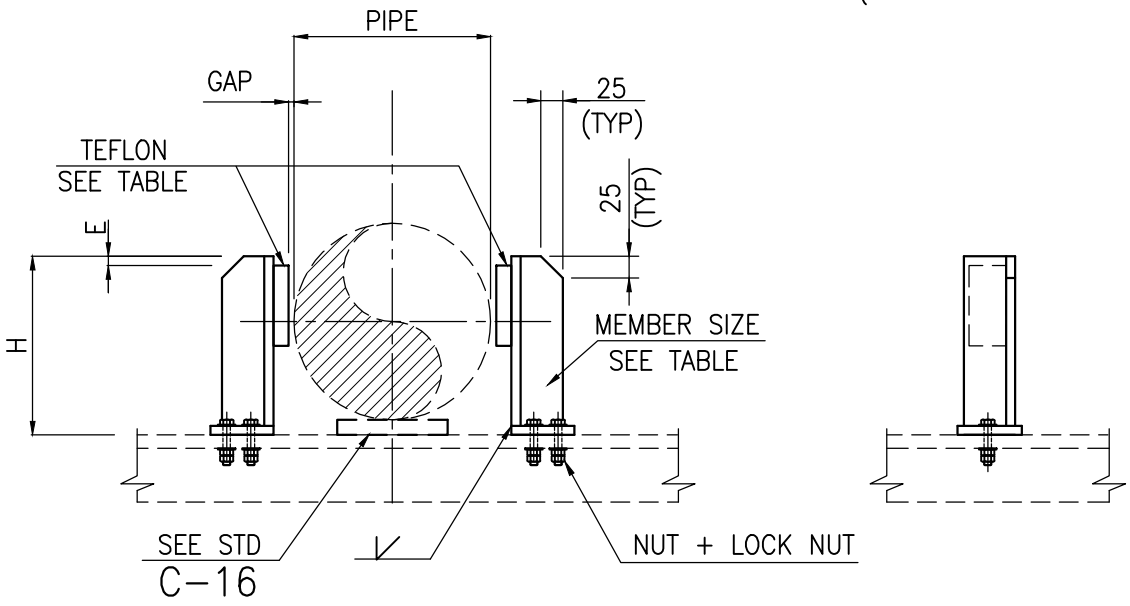
STANDARD SPECIFICATION
PIPE SUPPORT DETAIL STANDARD

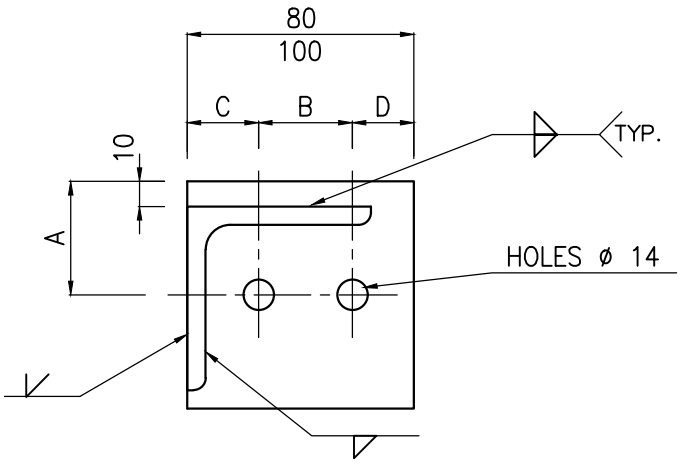
Document Number: STD–PP–DD–0001
Revision: 0
Date: –

GUIDA IMBULLONATA PER TUBAZIONI NON ISOLATE
BOLTED GUIDE FOR UNINSULATED PIPES

S–204

Example of designation : STD – TYPE – PIPE ND" – GAP
(S–204 – B – 10" – 2)





PIPE MATERIAL	
TYPE	DESCRIPTION
A	OTHERS
B	Cu–Ni

PIPE			H	TEFLON SIZE (2 PIECES)	MEMBER SIZE	PLATE	A mm	B mm	C mm	D mm	E mm	BOLTING (DIN933)	MAX LOAD (kN)	TOTAL WEIGHT (Kg)
ND"	(TYPE A)	(TYPE B)												
2"	60.3	57	70	40x50x5	L60x60x6	80x80x10	40	33	25	22	5	M12x55 LG	10	2,60
3"	88.9	88.9	70	50x50x5	L60x60x6	80x80x10	40	33	25	22	5	M12x55 LG	16	2,60
4"	114.3	108	100	70x50x5	L60x60x6	80x80x10	40	33	25	22	5	M12x55 LG	13	3,19
6"	168.3	159	135	70x60x5	L60x60x6	80x80x10	40	33	25	22	5	M12x55 LG	9	3,88
8"	219.1	219.1	150	70x60x5	L60x60x6	80x80x10	40	33	25	22	5	M12x55 LG	7	4,17
10"	273	267	175	90x60x5	L80x80x8	100x100x10	50	45	30	25	10	M12x55 LG	12	7,09

AVAILABLE MATERIAL SHORT CODE	MAXIMUM ALLOWABLE OPERAT. TEMP.	MAXIMUM ALLOWABLE DESIGN TEMP.	MIN. ALLOWABLE DESIGN TEMP.
CS	120°C	150°C	–20°C

NOTES:

1– ALL FILLET WELDING MUST HAVE THE EQUAL TO 0,8 OF THE MINIMUM THICKINESS TO BE WELDED EXCEPT WHERE OTHETWISE INDICATED.
2– BOLT HOLES IN GUIDE PLATE TO BE DRILLED IN PREFABRICATION.
3– GUIDES TO BE SITE LOCATED, BOLT HOLES IN PIPE SUPPORT FRAME DRILLED TO SUIT GUIDE PLATES.
4– BOLTS (UNI 5739 Cl 8.8), NUTS (UNI 5588 Cl 8.8), LOCK NUT (UNI 7474 Cl.10) & WASHERS (UNI 6592) SHALL BE H.D.G.
5– MATERIAL CARBON STEEL.

Revision Number	Date	Description	DRAW	CHKD.	APPR.
00	–	ISSUED FOR REVIEW	SLO	GMA	MCO

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STANDARD SPECIFICATION
PIPE SUPPORT DETAIL STANDARD

Document Number: STD–PP–DD–0001

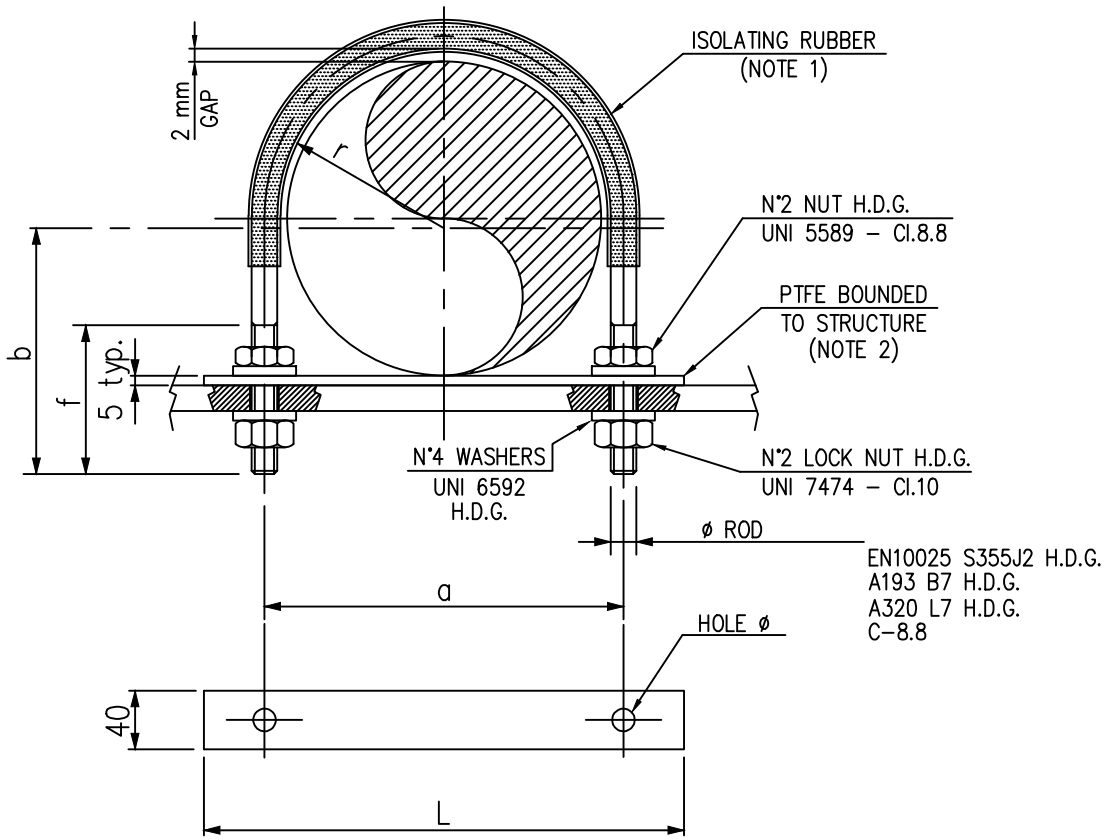
Revision: 0

Date: –

CAVALLOTTI GALVANIZZATI DI GUIDA PER TUBAZIONI IN C.S S.S. E ALLOY
GALVANIZED U–BOLTS GUIDE FOR C.S. S.S. AND ALLOY PIPES (NON GRIP)

S–211

Example of designation : STD – PIPE ND"
(S–211 – 10")



SIZE ND	ROD DIA	r	a	b	f	L	HOLE ø	DEV	DEV. RUBBER	WEIGHT Kg
½"	M8	14	36	55	52	65	10	167	62	0.16
3/4"	M8	17	42	55	52	70	10	176	75	0.16
1"	M8	20	48	60	55	80	10	196	90	0.18
1½"	M10	27	64	70	65	100	12	240	120	0.32
2"	M10	33	76	80	70	110	12	280	150	0.35
3"	M12	48	108	100	80	150	14	370	210	0.60
4"	M12	60	132	110	80	180	14	430	260	0.67
6"	M16	87	190	150	100	250	18	600	380	1.39
8"	M16	113	242	170	100	300	18	720	500	1.60
10"	M16	140	296	200	100	350	18	865	650	1.86
12"	M20	165	350	240	120	420	22	1030	750	3.31
14"	M20	181	382	260	120	450	22	1120	840	3.55
16"	M24	207	438	290	130	520	26	1270	1000	5.76
18"	M24	232	488	320	130	570	26	1410	1100	6.28
20"	M30	257	544	360	160	640	32	1570	1200	11.02
24"	M30	308	646	410	160	750	32	1830	1450	12.52

NOTES:

1) HEAT SHRINK TUBE TYPE FLAME RETARDANT, WITH RATIO 2:1
2) MULTIPLE SHEETS OF PTFE CAN BE ADDED IN ORDER TO ENSURE THE CORRECT ELEVATION AND SLOPE OF THE LINES.

Revision Number	Date	Description	DRAW	CHKD.	APPR.
00	–	ISSUED FOR REVIEW	SLO	GMA	MCO

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ROSETTI MARINO

STANDARD SPECIFICATION
PIPE SUPPORT DETAIL STANDARD

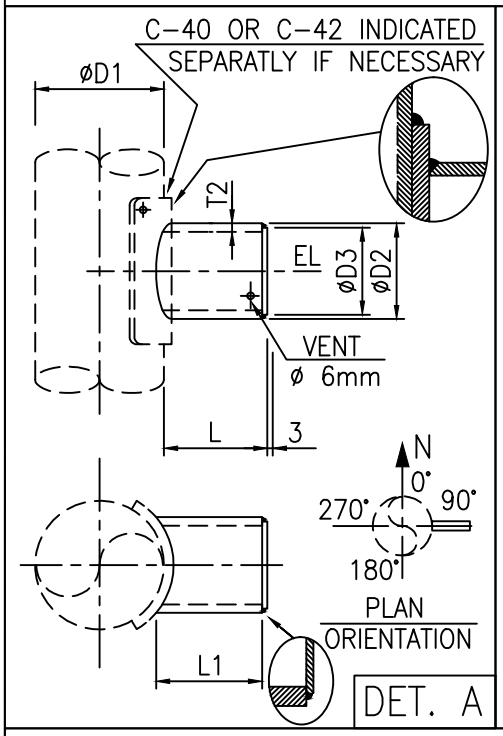
Document Number: STD-PP-DD-0001

Revision: 0

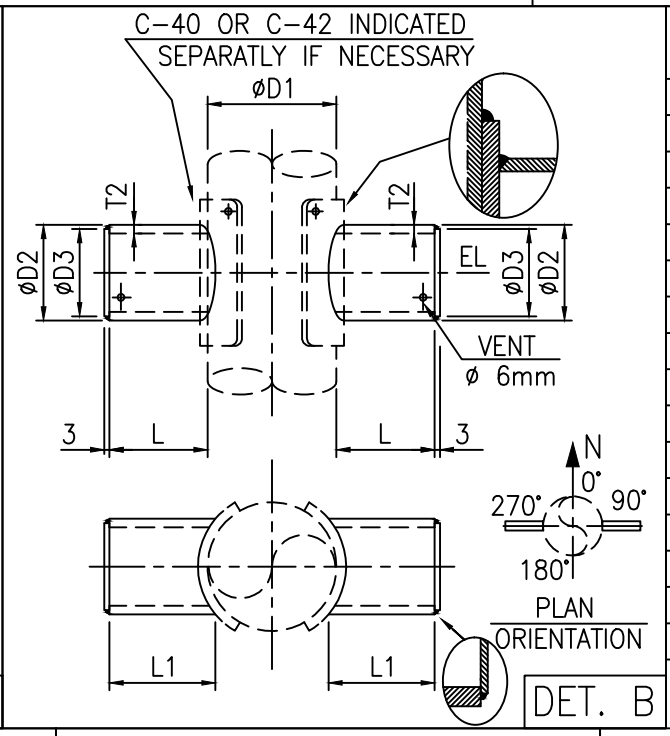
Date: –

FALSO TUBO
TRUNNION

S-222

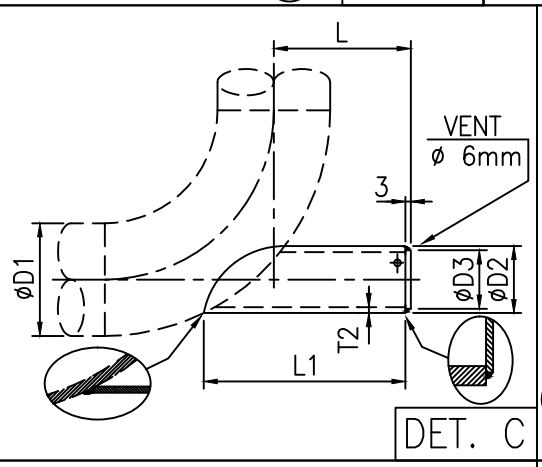


DET. A

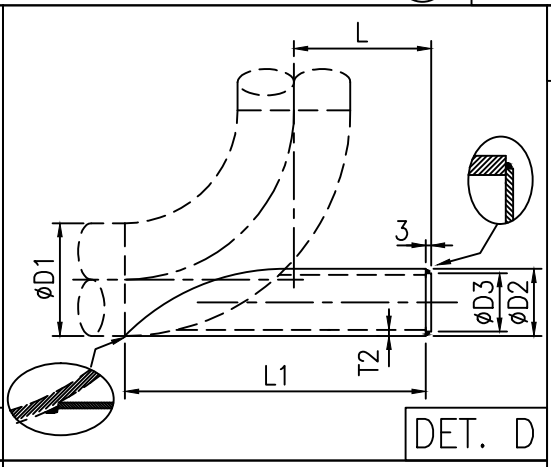


DET. B

PIPE ND "D1"	TRUNNION ND "D2"
1"	1"
1 1/2"	1 1/2"
2"	2"
2 1/2"	2"
3"	3"
4"	3"
6"	4"
8"	6"
10"	8"
12"	10"
14"	12"
16"	12"
18"	14"
20"	16"
24"	20"
26"	20"



DET. C

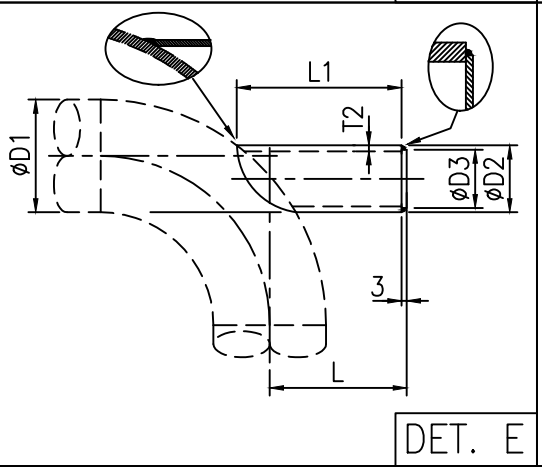


DET. D

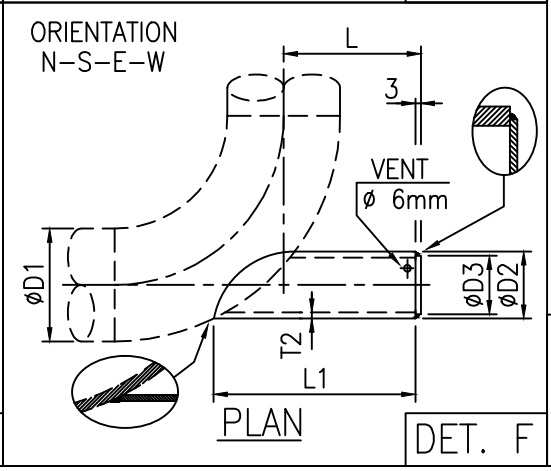
D3 = D2-T2

"L1" IS THE CUTTING LENGHT OF TRUNNION. FOR ADJUSTMENT ON SITE, PROVIDE AN EXTRA LENGHT OF 100mm.

Example of designation :
STD - DET - TRUNN. ND "D2" - T2 - L - L1 - ORIENTATION
(S-222 - A - 3" - 5,49 - 200 - 285 - 90)



DET. E



PLAN

DET. F

(FOR 3D MODELING SEE "APPENDIX S-222")

NOTES:

1- AFTER THE WELDING OF TRUNNION IN FABBRICATION, THE VENT HOLE WILL BE PLUGGED WITH SEALANT.
2- TRUNNION SHALL BE THE SAME MATERIAL OF MAIN PIPE.
3- REINFORCING PAD SHALL BE THE SAME MATERIAL OF MAIN PIPE (IN THIS CASE THE TRUNNION MATERIAL CAN BE C.S).
REINFORCING PAD THICKNESS SHALL BE SIMILAR TO MAIN PIPE THICKNESS.
REINFORCING PAD THICKNESS SHALL BE 3-5-8-10-12-15-20 mm TO BE OBTAINED FROM PLATE.
4- REINFORCEMENT PAD SHALL BE WELDED BY PIPE FABRICATOR.
5- VARIABLE WEIGHT.

Revision Number	Date	Description	DRAW	CHKD.	APPR.
00	-	ISSUED FOR REVIEW	SLO	GMA	MCO

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7. WELDING REGISTER & MATERIAL TRACEABILITY RECORD

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	128	**To**	128
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
1/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**CAP**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					25-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/128/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**TRU**	**10,00 mm**	**6,35 mm**	**FILL**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**F**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		MT	FIN	Weld Completion				10 %			Acceptable								
3/128/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**TRU**	**10,00 mm**	**6,35 mm**	**FILL**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**F**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		MT	FIN	Weld Completion				10 %			Acceptable								
4/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					25-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/128/1/_		**01**	**03-09-2024**	**13**	**AX410**			**TEE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**04-09-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					04-09-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/128/1/_		**01**	**08-06-2024**	**2**	**AZ35**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000012	3	Acceptable					21-06-2024			
7/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					25-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
8/128/1/_		**01**	**04-09-2024**	**14**	**AX410**			**TEE**	**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**05-09-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					05-09-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
9/128/1/_		**01**	**08-06-2024**	**2-1**	**AZ35**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**04-09-2024**	**A**
					AX410	**After Cutting**													
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000013	3	Acceptable					21-06-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date	Spool
9/128/1/_		**01**	**08-06-2024**	**2-1**	**AZ35**		**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**04-09-2024**	**A**
					AX410 **After Cutting**													
Cut 03-09-2024 Prod sh.1 AX410		VIS	C 1 DTA	After Cutting	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable	A1A	GTAW		04-09-2024				
		RT	C 1 DTA	After Cutting			10 %			Acceptable								
10/128/1/_		**01**	**08-06-2024**	**2-2**	**AZ35**		**FWN**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**05-09-2024**	**A**
					AX410 **After Cutting**													
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		RT	FIN	Weld Completion			10 %			Acceptable								
Cut 04-09-2024 Prod sh.2 AX410		VIS	C 1 DTA	After Cutting	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable	A1A	GTAW		05-09-2024				
		RT	C 1 DTA	After Cutting			10 %			Acceptable								
11/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**		**FWN**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**128**	**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**			
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
128	02	1	A	01CS	3	1	Tee Reducing BW ›12"x10" Thk.6.35mmx6.35mm ASTM/ASME A/SA420 Gr.WPL6	948456	1724000994	00260	1CL-08628	W4-W6	
128	02	1	A	01CS	4	1	Tee Reducing BW ›12"x8" Thk.6.35mmx6.35mm ASTM/ASME A/SA420 Gr.WPL6	453686	1724000994	00250	7015/22	W7-W9	
128	02	1	A	01CS	5	1	Cap BW ›12" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	633449	1724000994	00010	CE22012089_3.1_01	W1	
128	02	1	A	01CS	6	1	Flange WN ›12" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	22/35031	1724000994	00120	2024-C_MMF-01283	W10	
128	02	1	A	01CS	1A	0,5	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	1B	1,25	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	1C	3,706	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	2E	0,506	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
128	02	1	A	01CS	2F	0,506	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
128	02	1	A	01CS	STD S-222	1	PIPE - STD S-222	1220575	1724000995	00040	0001	W2	
128	02	1	A	01CS	STD S-222	1	PIPE - STD S-222	1220575	1724000995	00040	0001	W3	
128	02	1	B	01CS	6	1	Flange WN ›12" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	22/35031	1724000994	00120	2024-C_MMF-01283	W11	
128	02	1	B	01CS	1D	6,428	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	129	**To**	129
Sheet		**From**	1	**To**	2
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date	Spool
1/129/1/_		**01A**	**25-06-2024**	**8-13**	**AZ35**			**FWN**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**09-07-2024**	**A**
					AZ 32	**Repair done**													
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					26-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000014	3	Repair			0,022 m		02-07-2024			
Repair 04-07-2024 Prod sh.13 AZ 32		VIS	R 1 DRI	After Repair		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable	A1B	GTAW+FCAW			05-07-2024			
		RT	R 1 DRI	After Repair		IDL-QCI-RT 0036 00	AA	10 %	000017	1	Acceptable					09-07-2024			
2/129/1/_		**01A**	**24-07-2024**	**9**	**AX416**			**TEE**	**4,00 in**	**6,35 mm**	**V**	**0,359 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/129/1/_		**01A**	**25-06-2024**	**8**	**AZ35**			**TEE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**02-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					26-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000015	3	Acceptable					02-07-2024			
4/129/1/_		**01A**	**24-07-2024**	**9**	**AX416**			**TEE**	**4,00 in**	**6,35 mm**	**V**	**0,359 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/129/1/_		**01A**	**28-08-2024**	**12**	**AX416**			**TEE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**29-08-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	PBRECIT	100 %	OK		Acceptable					29-08-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/129/1/_		**01A**	**27-06-2024**	**11**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**28-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					28-06-2024			
		MT	FIN	Weld Completion				10 %			Acceptable								
7/129/1/_		**01A**	**28-08-2024**	**12**	**AX416**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**29-08-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	PBRECIT	100 %	OK		Acceptable					29-08-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
8/129/1/_		**01A**	**27-06-2024**	**11**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**28-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					28-06-2024			
		MT	FIN	Weld Completion				10 %			Acceptable								
9/129/1/_		**01A**	**23-07-2024**	**8**	**AX416**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
9/129/1/_		**01A**	**23-07-2024**	**8**	**AX416**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
10/129/1/_		**01A**	**27-06-2024**	**11**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**03-07-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					28-06-2024			
		MT	FIN	Weld Completion		IDL-QCI-MT 0006 00	BV	10 %	000002		Acceptable					03-07-2024			
11/129/1/_		**01A**	**24-07-2024**	**9**	**AX416**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
12/129/1/_		**01A**	**28-06-2024**	**12**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**03-07-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					01-07-2024			
		MT	FIN	Weld Completion		IDL-QCI-MT 0006 00	BV	10 %	000001		Acceptable					03-07-2024			
13/129/1/_		**01A**	**24-07-2024**	**9**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
14/129/1/_		**01A**	**27-06-2024**	**11**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**03-07-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					28-06-2024			
		MT	FIN	Weld Completion		IDL-QCI-MT 0006 00	BV	10 %	000003		Acceptable					03-07-2024			
15/129/1/_		**01A**	**24-07-2024**	**9**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
16/129/1/_		**01A**	**27-06-2024**	**11**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**03-07-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					28-06-2024			
		MT	FIN	Weld Completion		IDL-QCI-MT 0006 00	BV	10 %	000004		Acceptable					03-07-2024			
17/129/1/_		**01A**	**24-07-2024**	**9**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
17/129/1/_		**01A**	**24-07-2024**	**9**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
18/129/1/_		**01A**	**22-07-2024**	**6**	**AX410**			**PIPE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000021	3	Acceptable					25-07-2024			
19/129/1/_		**01A**	**26-06-2024**	**10**	**AZ35**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**LET**	**27-06-2024**	**C**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					27-06-2024			
		MT	FIN	Weld Completion				10 %			Acceptable								
20/129/1/_		**01A**	**24-07-2024**	**9**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
21/129/1/_		**01A**	**25-06-2024**	**8**	**AZ35**			**PIPE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**C**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					26-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
22/129/1/_		**01A**	**22-07-2024**	**6**	**AX410**			**ELB**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000022	3	Acceptable					25-07-2024			
29/129/1/_		**01A**	**28-08-2024**	**12**	**AX416**			**PIPE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**29-08-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	PBRECIT	100 %	OK		Acceptable					29-08-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
23/129/2/_		**01**	**26-06-2024**	**10**	**AZ35**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**LET**	**27-06-2024**	**D**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		MT	FIN	Weld Completion				10 %			Acceptable				27-06-2024				
24/129/2/_		**01**	**23-07-2024**	**8**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable				24-07-2024				
25/129/2/_		**01**	**25-06-2024**	**8**	**AZ35**			**ELB**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**D**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable				26-06-2024				
26/129/2/_		**01**	**26-06-2024**	**10**	**AZ35**			**ELB**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**27-06-2024**	**D**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable				27-06-2024				
27/129/2/_		**01**	**26-06-2024**	**10**	**AZ35**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**LET**	**27-06-2024**	**D**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		MT	FIN	Weld Completion				10 %			Acceptable				27-06-2024				
28/129/2/_		**01**	**23-07-2024**	**8**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable				24-07-2024				

Totals per DWG	**129**	**Prefabrication**	**6,82 m**	**14 Nr. Welds**	**77,00 inch**
		Erection	**6,68 m**	**15 Nr. Welds**	**75,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
		Accepted	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
		Repaired	**0,02 m**	**1 Nr. Welds**	**10,00 inch**

Totals by Discipline	**Prefabrication**	**6,82 m**	**14 Nr. Welds**	**77,00 inch**
	Erection	**6,68 m**	**15 Nr. Welds**	**75,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
	Accepted	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
	Repaired	**0,02 m**	**1 Nr. Welds**	**10,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05

ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
28/129/2/_		**01**	**23-07-2024**	**8**	**AX410**		**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	

Totals by Project			
Prefabrication	**6,82 m**	**14 Nr. Welds**	**77,00 inch**
Erection	**6,68 m**	**15 Nr. Welds**	**75,00 inch**
Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Performed	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
Accepted	**13,50 m**	**29 Nr. Welds**	**152,00 inch**
Repaired	**0,02 m**	**1 Nr. Welds**	**10,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**		
Commessa/Job	**123A90 - Piping**		
Disciplina/Discipline	**PIPING**		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:	
RosettiDoc.Num.	**123A90MTR001**		

Approvato da/Approved by	
Nome/Name:	
Data/Date:	28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
129	01A	1	A	01CS	2	1	Tee Reducing BW ›10"x4" Thk.6.35mmx6.02mm ASTM/ASME A/SA420 Gr.WPL6	981188	1724000994	00240	056189	W1-W3	
129	01A	1	A	01CS	2	1	Tee Reducing BW ›10"x4" Thk.6.35mmx6.02mm ASTM/ASME A/SA420 Gr.WPL6	981188	1724000994	00240	056189	W3	
129	01A	1	A	01CS	4	1	Flange WN ›10" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	22/36388	1724000994	00110	2024-C_MMF-01283	W1	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W6	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W8	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W10	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W12	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W14	
129	01A	1	B	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W16	
129	01A	1	B	01CS	1A	10,469	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
129	01A	1	B	01CS	1E	1,29	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
129	01A	1	C	01CS	3	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W19	
129	01A	1	C	01CS	8	1	90 Deg Elbow Long Radius BW ›10" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	X94J	1724000994	00050	2400051 027	W21	
129	01A	1	C	01CS	1B	0,54	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
129	01	2	D	01CS	2	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W23	
129	01	2	D	01CS	2	1	Weldolet BW ›10"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00180	002445	W27	
129	01	2	D	01CS	3	1	90 Deg Elbow Long Radius BW ›10" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	X94J	1724000994	00050	2400051 027	W25-W26	
129	01	2	D	01CS	1C	1,408	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
129	01	2	D	01CS	1D	2,788	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	130	**To**	130
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
1/130/1/_		**01**	**25-06-2024**	**8**	**AZ35**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**C**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				26-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
2/130/1/_		**01**	**26-06-2024**	**10**	**AZ35**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**27-06-2024**	**C**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				27-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
3/130/1/_		**01**	**04-09-2024**	**14**	**AX410**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**05-09-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable				05-09-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
4/130/1/_		**01**	**25-06-2024**	**8**	**AZ35**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				26-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
5/130/1/_		**01**	**23-07-2024**	**8**	**AX410**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable				24-07-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
6/130/1/_		**01**	**25-06-2024**	**8**	**AZ35**			**ELB**		**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				26-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
7/130/1/_		**01**	**28-06-2024**	**12**	**AZ 32**			**WOL**		**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**01-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				01-07-2024				
		MT	FIN	Weld Completion				10 %				Acceptable								
8/130/1/_		**01**	**19-07-2024**	**4**	**AX410**			**WOL**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable				19-07-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
9/130/1/_		**01**	**28-06-2024**	**12**	**AZ 32**			**WOL**		**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**01-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				01-07-2024				
		MT	FIN	Weld Completion				10 %				Acceptable								

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH) Order Number CW-I-WP4-2023-05

Client CRWIND CROSSWIND

Discipline PP Piping ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
9/130/1/_		**01**	**28-06-2024**	**12**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**01-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable					19-07-2024			
10/130/1/_		**01**	**19-07-2024**	**4**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		MT	FIN	Weld Completion				10 %			Acceptable					01-07-2024			
11/130/1/_		**01**	**28-06-2024**	**12**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**01-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable					19-07-2024			
12/130/1/_		**01**	**18-07-2024**	**3**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		MT	FIN	Weld Completion				10 %			Acceptable					01-07-2024			
13/130/1/_		**01**	**28-06-2024**	**12**	**AZ 32**			**WOL**	**3,00 in**	**6,35 mm**	**1/2V**	**0,279 m**	**P**	**C.S.**	**A1C**	**GTAW+SMAW**	**LET**	**01-07-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable					19-07-2024			
14/130/1/_		**01**	**18-07-2024**	**3**	**AX410**			**WOL**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable								
		MT	FIN	Weld Completion				10 %			Acceptable					01-07-2024			
15/130/1/_		**01**	**25-06-2024**	**8**	**AZ35**			**FWN**	**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable								
		RT	FIN	Weld Completion				10 %			Acceptable					19-07-2024			

Totals per DWG	**130**	**Prefabrication**	**4,57 m**	**9 Nr. Welds**	**52,00 inch**
		Erection	**2,50 m**	**6 Nr. Welds**	**28,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
		Accepted	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**4,57 m**	**9 Nr. Welds**	**52,00 inch**
		Erection	**2,50 m**	**6 Nr. Welds**	**28,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
		Accepted	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
15/130/1/_		**01**	**25-06-2024**	**8**	**AZ35**		**FWN**	**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**26-06-2024**	**A**

Totals by Project

Prefabrication	**4,57 m**	**9 Nr. Welds**	**52,00 inch**
Erection	**2,50 m**	**6 Nr. Welds**	**28,00 inch**
Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Performed	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
Accepted	**7,07 m**	**15 Nr. Welds**	**80,00 inch**
Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
130	01	1	A	01CS	2	1	Weldolet BW ›8"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00170	002445	W7	
130	01	1	A	01CS	2	1	Weldolet BW ›8"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00170	002445	W9	
130	01	1	A	01CS	2	1	Weldolet BW ›8"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00170	002445	W11	
130	01	1	A	01CS	2	1	Weldolet BW ›8"x3" Thk.6.35mmx5.49mm ASTM/ASME A/SA350 Gr.LF2	280285	1724000994	00170	002445	W13	
130	01	1	A	01CS	3	1	90 Deg Elbow Long Radius BW ›8" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	W25A	1724000994	00040	2400051 025	W6	
130	01	1	A	01CS	4	1	Flange WN ›8" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	23/39601	1724000994	00100	2024-C_MMF-01283	W15	
130	01	1	A	01CS	1A	10,356	Pipe 219.1mm(8") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220140	1724000995	00030	1127		
130	01	1	B	01CS	3	1	90 Deg Elbow Long Radius BW ›8" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	W25A	1724000994	00040	2400051 025	W4	
130	01	1	B	01CS	1B	1,56	Pipe 219.1mm(8") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220140	1724000995	00030	1127		
130	01	1	C	01CS	3	1	90 Deg Elbow Long Radius BW ›8" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	W25A	1724000994	00040	2400051 025	W1-W2	
130	01	1	C	01CS	1C	1,681	Pipe 219.1mm(8") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220140	1724000995	00030	1127		
130	01	1	C	01CS	1D	0,562	Pipe 219.1mm(8") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220140	1724000995	00030	1127		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	131	**To**	131
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
1/131/1/_		**01**	**07-06-2024**	**1**	**AZ 32**			**FWN**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**20-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/131/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/131/1/_		**01**	**13-06-2024**	**6**	**AZ35**			**ELB**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/131/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/131/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
6/131/1/_		**01**	**20-07-2024**	**5**	**AX410**			**ELB**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					22-07-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000020		3	Acceptable					25-07-2024			
7/131/1/_		**01**	**07-06-2024**	**1**	**AZ 32**			**TEE**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
8/131/1/_		**01**	**23-07-2024**	**8**	**AX416**			**TEE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
9/131/1/_		**01**	**07-06-2024**	**1**	**AZ 32**			**TEE**		**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000010		3	Acceptable					21-06-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
9/131/1/_		**01**	**07-06-2024**	**1**	**AZ 32**		**TEE**	**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**21-06-2024**	**A**
10/131/1/_		**01**	**10-06-2024**	**3**	**AZ 32**		**TEE**	**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								
11/131/1/_		**01**	**22-07-2024**	**6**	**AX416**		**TEE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**22-07-2024**	
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**131**	**Prefabrication**	**2,88 m**	**8 Nr. Welds**	**32,00 inch**
		Erection	**0,92 m**	**3 Nr. Welds**	**10,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Accepted	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**2,88 m**	**8 Nr. Welds**	**32,00 inch**
		Erection	**0,92 m**	**3 Nr. Welds**	**10,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Accepted	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**2,88 m**	**8 Nr. Welds**	**32,00 inch**
		Erection	**0,92 m**	**3 Nr. Welds**	**10,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Accepted	**3,80 m**	**11 Nr. Welds**	**42,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
131	01	1	A	01CS	2	1	Tee Reducing BW ›4"x3" Thk.6.02mmx5.49mm ASTM/ASME A/SA420 Gr.WPL6	J4KB349	1724000994	00230	20500799	W1-W10	
131	01	1	A	01CS	2	1	Tee Reducing BW ›4"x3" Thk.6.02mmx5.49mm ASTM/ASME A/SA420 Gr.WPL6	J4KB349	1724000994	00230	20500799	W7-W9	
131	01	1	A	01CS	4	1	Flange WN ›4" Thk.6.02mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	022203591	1724000994	00090	2024-C_MMF-01283	W1	
131	01	1	A	01CS	1A	5,84	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		
131	01	1	A	01CS	1D	2,299	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		
131	01	1	B	01CS	3	1	90 Deg Elbow Long Radius BW ›4" Thk.6.02mm ASTM/ASME A/SA420 Gr.WPL6	X98Z	1724000994	00020	24-01511	W2	
131	01	1	B	01CS	3	1	90 Deg Elbow Long Radius BW ›4" Thk.6.02mm ASTM/ASME A/SA420 Gr.WPL6	X98Z	1724000994	00020	24-01511	W3-W4	
131	01	1	B	01CS	3	1	90 Deg Elbow Long Radius BW ›4" Thk.6.02mm ASTM/ASME A/SA420 Gr.WPL6	X98Z	1724000994	00020	24-01511	W5	
131	01	1	B	01CS	1B	0,131	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		
131	01	1	B	01CS	1C	0,496	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	132	**To**	132
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
1/132/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**	**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**20-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/132/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**	**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/132/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**TEE**	**4,00 in**	**5,49 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000011	3	Acceptable					21-06-2024			
4/132/1/_		**01**	**23-07-2024**	**8**	**AX416**			**TEE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/132/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**TEE**	**4,00 in**	**5,49 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/132/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**TEE**	**4,00 in**	**5,49 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
7/132/1/_		**01**	**22-07-2024**	**6**	**AX416**			**TEE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**22-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
8/132/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**FWN**	**4,00 in**	**6,02 mm**	**V**	**0,359 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/132/1/_		01	10-06-2024	3	AZ 32		FWN	4,00 in	6,02 mm	V	0,359 m	P	C.S.	A1A	GTAW	BW	20-06-2024	A

Totals per DWG	**132**	**Prefabrication**	**2,16 m**	**6 Nr. Welds**	**24,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Accepted	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**2,16 m**	**6 Nr. Welds**	**24,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Accepted	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**2,16 m**	**6 Nr. Welds**	**24,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Accepted	**2,72 m**	**8 Nr. Welds**	**30,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
132	01	1	A	01CS	2	1	Tee Reducing BW ›4"x3" Thk.6.02mmx5.49mm ASTM/ASME A/SA420 Gr.WPL6	J4KB349	1724000994	00230	20500799	W3-W5	
132	01	1	A	01CS	2	1	Tee Reducing BW ›4"x3" Thk.6.02mmx5.49mm ASTM/ASME A/SA420 Gr.WPL6	J4KB349	1724000994	00230	20500799	W6-W8	
132	01	1	A	01CS	3	1	90 Deg Elbow Long Radius BW ›4" Thk.6.02mm ASTM/ASME A/SA420 Gr.WPL6	X98Z	1724000994	00020	24-01511	W1-W2	
132	01	1	A	01CS	4	1	Flange WN ›4" Thk.6.02mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	022203591	1724000994	00090	2024-C_MMF-01283	W8	
132	01	1	A	01CS	1A	5,84	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		
132	01	1	A	01CS	1B	1,872	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		
132	01	1	A	01CS	1C	0,443	Pipe 114.3mm(4") thk.6.02mm ASTM/ASME A/SA333 Gr.6	1234140	1724000995	00020	24A2347		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	133	**To**	133
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/133/1/_		**02**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/133/1/_		**02**	**24-06-2024**	**7**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					25-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/133/1/_		**02**	**22-07-2024**	**6**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**22-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**133**	**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
133	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW ›3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W1-W2	
133	02	1	A	01CS	1A	0,218	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
133	02	1	A	01CS	1B	0,888	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	134	**To**	134
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn.	Accept. Date	Spool
1/134/1/_		**01**	**12-06-2024**	**5**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		RT	FIN	Weld Completion			10 %			Acceptable								
2/134/1/_		**01**	**24-06-2024**	**7**	**AZ 32**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion			10 %			Acceptable								
3/134/1/_		**01**	**22-07-2024**	**7**	**AX416**		**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**23-07-2024**	
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable				23-07-2024				
		RT	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**134**	**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
134	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W1-W2	
134	01	1	A	01CS	1A	0,278	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
134	01	1	A	01CS	1B	0,888	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	135	**To**	135
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons.	Accept. Date	Spool
1/135/1/_		**02**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000001	3	Acceptable					21-06-2024			
2/135/1/_		**02**	**24-06-2024**	**7**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					25-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/135/1/_		**02**	**22-07-2024**	**6**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**22-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					22-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**135**	**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
135	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW ›3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W1-W2	
135	02	1	A	01CS	1A	0,218	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
135	02	1	A	01CS	1B	0,888	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	136	**To**	136
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
1/136/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
2/136/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
3/136/1/_		**01**	**23-07-2024**	**8**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable				24-07-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**136**	**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**	Antonio Galesi		
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
	RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
136	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W1-W2	
136	01	1	A	01CS	1A	0,278	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
136	01	1	A	01CS	1B	0,888	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	137	**To**	137
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date	Spool
1/137/1/_		**01**	**15-07-2024**	**2**	**AX416**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**17-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					17-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/137/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/137/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/137/1/_		**01**	**23-07-2024**	**10**	**AX416**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/137/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
6/137/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000002		3	Acceptable					21-06-2024			
7/137/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
8/137/1/_		**01**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000003		3	Acceptable					21-06-2024			
9/137/1/_		**01**	**15-07-2024**	**2**	**AX416**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					17-07-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000019		3	Acceptable					25-07-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
9/137/1/_		01	15-07-2024	2	AX416		ELB	3,00 in	5,49 mm	V	0,279 m	M	C.S.	A1A	GTAW	BW	25-07-2024	

Totals per DWG	**137**	**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
		Erection	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
		Erection	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
		Erection	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
137	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
137	01	1	A	01CS	1A	0,205	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
137	01	1	A	01CS	1B	4,295	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
137	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W5	
137	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W6-W7	
137	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W8	
137	01	1	B	01CS	1C	0,226	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
137	01	1	B	01CS	1D	6,173	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
137	01	1	B	01CS	1E	3,586	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	138	**To**	138
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date	Spool
1/138/1/_		**01**	**23-07-2024**	**8**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/138/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/138/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000004	3	Acceptable					21-06-2024			
4/138/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/138/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000005	3	Acceptable					21-06-2024			

Totals per DWG	**138**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**	
	Commessa/Job	**123A90 - Piping**	
	Disciplina/Discipline	**PIPING**	
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	
	RosettiDoc.Num.	**123A90MTR001**	

Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
StatoDocumento/Document Status:		Data/Date: 28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
138	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
138	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
138	01	1	A	01CS	1A	0,702	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
138	01	1	A	01CS	1B	1,672	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
138	01	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	139	**To**	139
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/139/1/_		**01**	**25-07-2024**	**11**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/139/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/139/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
4/139/1/_		**01**	**25-07-2024**	**11**	**AX416**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/139/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/139/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
7/139/1/_		**01**	**11-06-2024**	**4**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**139**	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
7/139/1/_		**01**	**11-06-2024**	**4**	**AZ 32**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**

Totals by Discipline	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
	Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
	Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
139	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
139	01	1	A	01CS	1A	0,71	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
139	01	1	A	01CS	1B	0,107	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
139	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W5	
139	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W6-W7	
139	01	1	B	01CS	1C	0,872	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
139	01	1	B	01CS	1D	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	140	**To**	140
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date	Spool
1/140/1/_		**01**	**25-07-2024**	**11**	**AX416**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/140/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/140/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/140/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/140/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								

Totals per DWG	**140**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
140	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
140	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
140	01	1	A	01CS	1A	0,747	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
140	01	1	A	01CS	1B	1,672	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
140	01	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	141	**To**	141
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
1/141/1/_		**01**	**16-07-2024**	**1**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**17-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					17-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/141/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/141/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
4/141/1/_		**01**	**25-07-2024**	**11**	**AX416**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/141/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/141/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000006	3	Acceptable					21-06-2024			
7/141/1/_		**01**	**10-06-2024**	**3**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**141**	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05

ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
7/141/1/_		**01**	**10-06-2024**	**3**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**		**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**

Totals by Discipline	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
	Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project	**Prefabrication**	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
	Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
141	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
141	01	1	A	01CS	1A	0,755	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
141	01	1	A	01CS	1B	0,102	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
141	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W5	
141	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W6-W7	
141	01	1	B	01CS	1C	0,872	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
141	01	1	B	01CS	1D	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	142	**To**	142
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/142/1/_		**01**	**24-07-2024**	**9**	**AX410**		**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								
2/142/1/_		**01**	**10-06-2024**	**3**	**AZ 32**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								
3/142/1/_		**01**	**12-06-2024**	**5-9**	**AZ 32**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**09-07-2024**	**A**
					AZ35 Repair done													
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion	IDL-QCI-RT 0036 00	PR	10 %	000009	3	Repair				0,025 m	21-06-2024			
Repair 25-06-2024 Prod sh.9 AZ35		VIS	R 1 DRI	After Repair	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable A1A		GTAW			26-06-2024			
		RT	R 1 DRI	After Repair	IDL-QCI-RT 0036 00	AA	10 %	000016	1	Acceptable					09-07-2024			
4/142/1/_		**01**	**11-06-2024**	**4**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								
5/142/1/_		**01**	**10-06-2024**	**3**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**142**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,03 m**	**1 Nr. Welds**	**3,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,03 m**	**1 Nr. Welds**	**3,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05

ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
5/142/1/_		**01**	**10-06-2024**	**3**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**

Totals by Project			
Prefabrication	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
Repaired	**0,03 m**	**1 Nr. Welds**	**3,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
142	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
142	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
142	01	1	A	01CS	1A	0,792	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
142	01	1	A	01CS	1B	1,672	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
142	01	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	143	**To**	143
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
1/143/1/_		**01**	**16-07-2024**	**1**	**AX416**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					17-07-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	AA	10 %	000018	3	Acceptable					25-07-2024			
2/143/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/143/1/_		**01**	**11-06-2024**	**4**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
4/143/1/_		**01**	**11-06-2024**	**4**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
5/143/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
6/143/1/_		**01**	**24-07-2024**	**9**	**AX410**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**25-07-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					25-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
7/143/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
8/143/1/_		**01**	**13-06-2024**	**6**	**AZ35**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
9/143/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**B**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05

ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
9/143/1/_		01	10-06-2024	3	AZ 32		ELB	3,00 in	5,49 mm	V	0,279 m	P	C.S.	A1A	GTAW	BW	20-06-2024	B

Totals per DWG	**143**	**Prefabrication**	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Erection	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Accepted	**2,52 m**	**9 Nr. Welds**	**27,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
143	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
143	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
143	01	1	A	01CS	1A	0,771	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
143	01	1	A	01CS	1B	0,101	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
143	01	1	A	01CS	1C	3,011	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
143	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W7	
143	01	1	B	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W8-W9	
143	01	1	B	01CS	1D	1,344	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
143	01	1	B	01CS	1E	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	144	**To**	144
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/144/1/_		**01**	**23-07-2024**	**8**	**AX410**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/144/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/144/1/_		**01**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/144/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/144/1/_		**01**	**10-06-2024**	**3**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								

Totals per DWG	**144**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
144	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
144	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
144	01	1	A	01CS	1A	0,822	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
144	01	1	A	01CS	1B	1,561	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
144	01	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	145	**To**	145
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/145/1/_		**01**	**23-07-2024**	**8**	**AX410**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**24-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					24-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/145/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/145/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/145/1/_		**01**	**12-06-2024**	**5**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/145/1/_		**01**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								

Totals per DWG	**145**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
145	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
145	01	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
145	01	1	A	01CS	1A	0,871	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
145	01	1	A	01CS	1B	0,342	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
145	01	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	146	**To**	146
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/146/1/_		**02**	**19-07-2024**	**4**	**AX410**			**PIPE**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable					19-07-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
2/146/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								
3/146/1/_		**02**	**12-06-2024**	**5**	**AZ 32**			**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %			Acceptable								

Totals per DWG	**146**	**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**0,56 m**	**2 Nr. Welds**	**6,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Accepted	**0,84 m**	**3 Nr. Welds**	**9,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 28/01/2025
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
146	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
146	02	1	A	01CS	1A	0,675	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
146	02	1	A	01CS	1B	1,632	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	147	**To**	147
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date	Spool
1/147/1/_		**02**	**19-07-2024**	**4**	**AX410**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					19-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/147/1/_		**02**	**12-06-2024**	**5**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/147/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/147/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/147/1/_		**02**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
6/147/1/_		**02**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000007		3	Acceptable					21-06-2024			
7/147/1/_		**02**	**10-06-2024**	**3**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								

Totals per DWG	**147**	**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
7/147/1/_		**02**	**10-06-2024**	**3**	**AZ35**		**ELB**	**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**

Totals by Discipline	**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
	Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project	**Prefabrication**	**1,68 m**	**6 Nr. Welds**	**18,00 inch**
	Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
	Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
	Performed	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Accepted	**1,96 m**	**7 Nr. Welds**	**21,00 inch**
	Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
147	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW ›3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
147	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW ›3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
147	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW ›3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W6-W7	
147	02	1	A	01CS	1A	0,294	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
147	02	1	A	01CS	1B	0,101	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
147	02	1	A	01CS	1C	2,372	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
147	02	1	A	01CS	1D	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	148	**To**	148
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
1/148/1/_		**02**	**18-07-2024**	**3**	**AX410**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable				19-07-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
2/148/1/_		**02**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				20-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
3/148/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				20-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
4/148/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				20-06-2024				
		RT	FIN	Weld Completion				10 %				Acceptable								
5/148/1/_		**02**	**12-06-2024**	**5**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable				20-06-2024				
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000008		3	Acceptable				21-06-2024				

Totals per DWG	**148**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**	
	Commessa/Job	**123A90 - Piping**	
	Disciplina/Discipline	**PIPING**	
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	
	RosettiDoc.Num.	**123A90MTR001**	

Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
StatoDocumento/Document Status:		Data/Date: 28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
148	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
148	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
148	02	1	A	01CS	1A	0,595	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
148	02	1	A	01CS	1B	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
148	02	1	A	01CS	1C	1,632	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

Rosetti Marino S.p.A.

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	149	**To**	149
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	N. Rep	Dimension	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date	Spool
1/149/1/_		**02**	**18-07-2024**	**3**	**AX410**			**PIPE**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**19-07-2024**	
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK			Acceptable					19-07-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
2/149/1/_		**02**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
3/149/1/_		**02**	**12-06-2024**	**5**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
4/149/1/_		**02**	**11-06-2024**	**4**	**AZ35**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								
5/149/1/_		**02**	**11-06-2024**	**4**	**AZ 32**			**ELB**		**3,00 in**	**5,49 mm**	**V**	**0,279 m**	**P**	**C.S.**	**A1A**	**GTAW**	**BW**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK			Acceptable					20-06-2024			
		RT	FIN	Weld Completion				10 %				Acceptable								

Totals per DWG	**149**	**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**1,12 m**	**4 Nr. Welds**	**12,00 inch**
		Erection	**0,28 m**	**1 Nr. Welds**	**3,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Accepted	**1,40 m**	**5 Nr. Welds**	**15,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name:	Nome/Name:	Nome/Name:
Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
Commessa/Job	**123A90 - Piping**			
Disciplina/Discipline	**PIPING**	Antonio Galesi		
TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date:
RosettiDoc.Num.	**123A90MTR001**			28/01/2025

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
149	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W2-W3	
149	02	1	A	01CS	2	1	90 Deg Elbow Long Radius BW >3" Thk.5.49mm ASTM/ASME A/SA420 Gr.WPL6	130896	1724000994	00030	4724-P10	W4-W5	
149	02	1	A	01CS	1A	0,235	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
149	02	1	A	01CS	1B	0,872	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		
149	02	1	A	01CS	1C	0,1	Pipe 88.9mm(3") thk.5.49mm ASTM/ASME A/SA333 Gr.6	A17548	1724000995	00010	E14315		

7. WELDING REGISTER & MATERIAL TRACEABILITY RECORD

ITEM	Tag	56-11-TP-048	: Test Pack 56-11-TP-048			Dwg	123A90-DDL-PR-PID-80043
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003597		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	CLX02B Pipework After Test

1	Check that the pipework and equipment are drained as per procedure.	OK
2	Check if all temporary equipment (test spades, filters ,spool pieces..etc) have been removed.	NA
3	All plugs installed on vents and drains for test have been removed.	NA
4	Check that all removed devices and valves have been re-installed.	NA
5	Check that the new gaskets have been installed after pipework and equipment reinstallation.	OK
6	All specific blinds and / or spectacle blinds have been correctly installed as per P&ID.	OK
7	Check that the pipework, valves , check valves are undamaged. Also check the ancillaries and any other components.	NA
8	After the (re) installation of a valve check that it operates freely.	NA
9	Check that the flow direction of the valves and check – valve is in correct sense /direction in correct open/closed position as per P&ID.	NA
10	Check all locking device.	NA
11	Check that the valves have been correctly lubricated and that they have the correct spindle packing.	NA
12	Check that all the bolts and fasteners are suitably lubricated inline with the flange management procedure.	OK
13	Check that the bolts have been tightned at opened joints.	OK
14	Check that all golden welds (final tie-ins without hydrotest) have been performed as per procedure.	NA
15	Check for the correct tagging, labeling and colour coding of pipework and equipment (only for bare pipe lines).	NA
16	Check that the pipework and equipment (re) installation conforms to the specifications, drawings and to the P&ID's.	PL
17	If required produce Red Line Mark Up for "AS BUILT".	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Lorenzo Novaga	
Date	2025-02-07	2025-02-21	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-02-07T13:18:12.174Z	PROVERLIS Digitaly signed by Lorenzo Novaga 2025-02-21T14:15:08.181Z	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	56-11-TP-048	: Test Pack 56-11-TP-048			Dwg	123A90-DDL-PR-PID-80043
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003598		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Piping	Form	CXX02 Painting Line

1	Check that the completed painting is in accordance with the specifications covering quality and thickness.	OK
2	Check that the color coding conforms to the specifications.	PL
3	Check that the fluid direction is correct.	PL
4	Check that line marking is correct.	NA
5	Check that the painting of piping systems and of the equipment is "touched-up" and conforms to the specifications.	OK
6	If required produce Red Line Mark Up for "AS BUILT".	

Comments: 1. Checked the painting report made by Vendor and signed by RM coating Dpt.

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	IMPRESA DONELLI	RM (ROSETTI MARINO)	
Name	Alex Sanna	Francesco Lionetti	
Date	2025-02-11	2025-02-21	
Signature	PROVERLIS Digitaly signed by Alex Sanna 2025-02-11T15:55:11.138Z	PROVERLIS Digitaly signed by Francesco Lionetti 2025-02-21T14:01:18.602Z	

ITEM	Tag	56-11-TP-102	: Test Pack 56-11-TP-102			Dwg	123A90-DDL-PR-PID-80043
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	TP
TASK	code	C10003724		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	CLX02A Pipework Before Test

1	Check for each line of the Test Pack the NDT clearance.	OK
2	Confirm that materials conforms to the line specifications (ref. to the last issued revision of the isometric material table)	OK
3	Check the installation of all pipe – supports are in accordance with the specifications and drawings.	Note
4	Check that pipework at pump and vessel nozzles are free from spring.	Note
5	Check that the pipe flanges have been mounted square to each other. Also that the bolting and gaskets are correct (all TMX27 are complete, if necessary).	Note
6	Check bolt tightening and flange management (excluded battery limit joints).	NA
7	Check that the flow direction of the valves and check – valve is in the correct sense / direction (ball valves to be set at half open).	NA
8	Check that the removed equipment is in accordance with the agreed list of fragile devices. Check valve should be removed or flappers locked.	NA
9	Check that spool pieces or other substitution means have been put in place instead of the removed fragile device.	NA
10	Check the Blind list.	NA
11	Check that all the temporary material to perform the task are conforms to the procedure & suitable pressure rating.	NA
12	If required produce Red Line Mark Up for "AS BUILT".	

Comments: Note 3: activity phase Off-shore.
Note 4, 5: to be checked during Flange Management activity (Off shore activity)

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	Rodeo	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Lorenzo Novaga	
Date	2024-12-05	2024-12-05	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2024-12-05T08:46:52.417Z	PROVERLIS Digitaly signed by Lorenzo Novaga 2024-12-05T15:23:16.528Z	

Base Load Power Hub (BLPH)

TEST PACK

N°56-11-TP-102
SUB-SYSTEM N° 56-11

System	56
Sub-System	56-11
Test Pressure	N/A
Test Fluid	N/A
Test Duration	N/A

Rev.	Date	Prepared by	Checked by
0	27/09/2024	J.Q.	L.M.

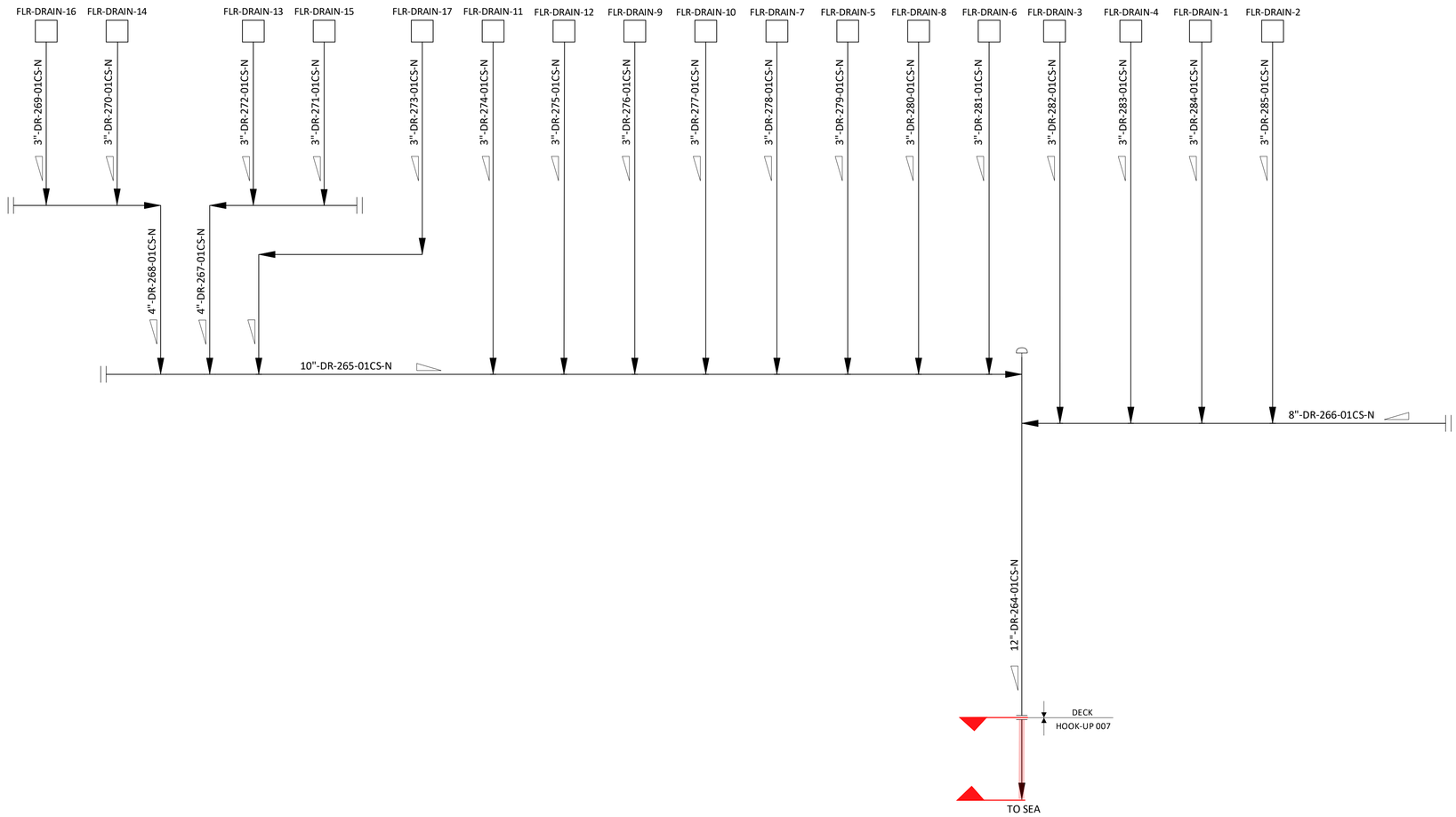
List of Contents

1. COLOURED MARKED P&IDs
2. PIPING TEST 3D CIRCUIT
3. MATERIAL LIST FOR TEST
4. EXTRACT OF LINE LIST
5. ISOMETRIC RED-MARKED DRAWINGS & EXTRACT OF ISO LIST
6. EXTRACT OF SUPPORT LIST AND DETAILS
7. WELDING REGISTER & MATERIAL TRACEABILITY RECORD
8. PIPING & VESSEL PRE-COMMISSIONING CONFORMITY CHECKS & TESTS:
   - 8.1 CLX02A - Pipework Before test
   - 8.2 CLX02B - Pipework After Test
   - 8.3 CXX01 - Thermal insulation – NOT APPLICABLE
   - 8.4 CXX02 – Painting Line
   - 8.5 TMX03 – Cleaning – NOT APPLICABLE
   - 8.6 TMX05 – Pressure test – NOT APPLICABLE
   - 8.7 TMX25 – Gross Air Leak Test – NOT APPLICABLE
   - 8.8 TMX27 – Bolt Tensioning / Torquing
   - 8.9 TPLX05 – Drying – NOT APPLICABLE

1. COLOURED MARKED P&IDs

DRAWING NO. DRAWING_NO.

REV. REV



56-11-TP-102
N/A

NOTES

1. ALL HEADERS ARE BELOW THE UPPER DECK. 01

HOLDS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/06/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

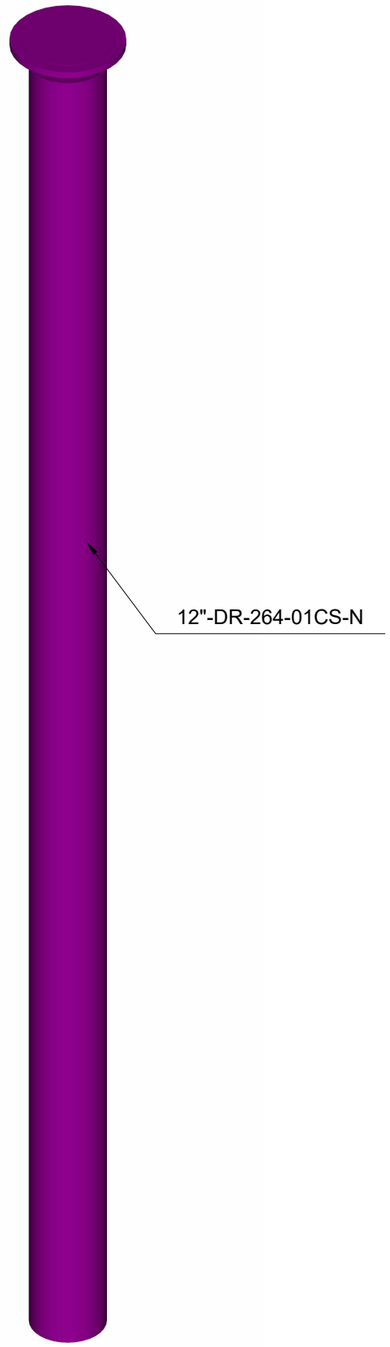
TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
OPEN DRAIN SYSTEM

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	NTS
DRAWN	CHECKED	APPROVED	DATE

A1	DRAWING NO. 123A90-DDL-PR-PID-80043	SHEET 001	REV. 01

File Name : FILE_NAME

2. HYDROSTATIC TEST 3D CIRCUIT



56-11-TP-102

N/A

NOTES

- MANUAL VALVES MAY BE EXCLUDED FROM THE TEST
- ALL INSTRUMENTS (PG, TT, etc.) SHALL BE EXCLUDED FROM THE TEST
- ALL INSTRUMENT VALVES (SDV, PCV, etc.) SHALL BE EXCLUDED FROM THE TEST
- FILLING POINT, VENTS & DRAINS SHALL BE DEFINED ON SITE AS FOR REAL TEST CIRCUIT CONFIGURATION

REV.	DATE	DESCRIPTION	DRN	CHKD	APPD
00	27-09-24	ISSUED FOR INFORMATION	J.Q.	T.L.	L.M.

CROSSWIND

ROSETTI MARINO

HOLLANDSE KUST NOORD WIND PARK

PIPING TEST 3D CIRCUIT
56-11-TP-102

FORMAT	SCALE	DRAWING N.	REV.	SHEET
A3	NTS	N/A	00	1 OF 1

3. MATERIAL LIST FOR TEST

NOT APPLICABLE

4. EXTRACT OF LINE LIST

Isometric N°	Short Line N°	Sequential Number	Size [in]	Piping Class	Insulation Type	Pipe Wall Thicknes [mm]	Pipe Schedule	Tracing	Line Number	PID Number	Design Pressure [barg]	Commissioning System Code	Commissioning SubSystem Code	Test Pack N°	Test Fluid	Test Pressure [barg]	Fluid Service	Class Base Material	Line INF/SUP/TL	Ped Category	Painting System	Line Base Ral
128	DR-264	264	12	01CS	N	6,35	20	N/A	12"-DR-264-01CS-N	123A90-DDL-PR-PID-80043	3,50	56	56-11	TP-048/TP-102	N/A	N/A	Drain	Carbon Steel	SUP	Art. 4, par. 3	1	RAL 9002

5. ISOMETRIC RED MARKED DRAWING & EXTRACT OF ISO LIST

CROSSWIND

ROSETTI MARINO

PROJECT

BASE LOAD POWER HUB (BLPH)

JOB **123A90**

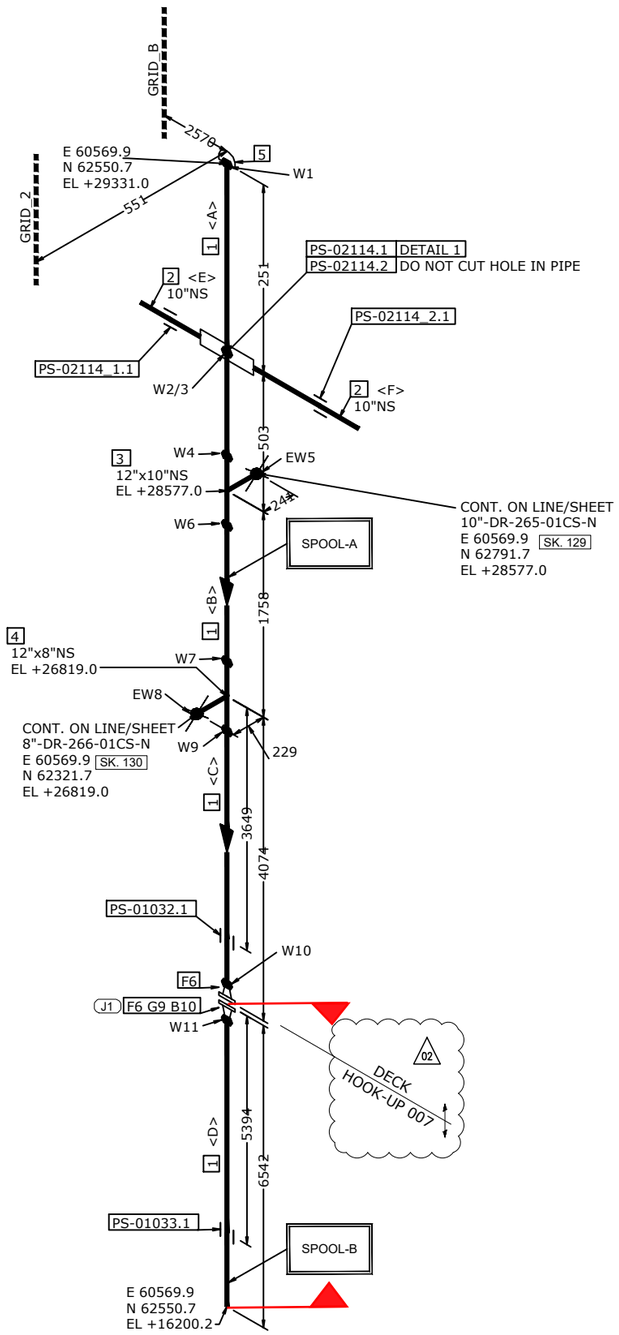
DOCUMENT NR **123A90-FDL-ST-LIS-00001** REV. **05**

TITLE

SHOP DRAWING ISOMETRIC LIST

DATE **17/09/2024**

POS.	DOCUMENT NR	ROSETTI SKETCH NR	SHEET	DOCUMENT TITLE	Rev. 00	Rev. 01	Rev. 02	Rev. 03	Rev. 04	Rev. 05	Rev. 06	Rev. 07	Rev. 08	Rev. 09	Rev. 10	Mark-up Rev.	Mark-up Data	LAST REV	LIST REV	NOTES	TEST PACK NR
164	123A90-FDL-PP-DI-00128-01	**128**	01	SHOP DRAWING ISOMETRIC - LINE NR 12"-DR-264-01CS-N	04/06/2024	03/09/2024	17/09/2024											**02**	**05**	**HOOK-UP 007 (SPOOL B)**	**TP-048/TP-102**



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	12	PIPECS10401200	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	11.9 M	590.6
2	10	PIPECS10391000	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	1.1 M	42.3
3	12 x 10	TER0CS26531210	Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	42.0
4	12 x 8	TER0CS26491208	Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	42.0
5	12	CAP0CS06421200	Cap ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	10.0
6	12	FLW0CS16601200	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	2	72.0
ERECTION					
9	10	GSW0GK11291200	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.1
10	7/8	SB20BO04290500	125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	12	8.0

FABRICATION WEIGHT [kg]	798.9
ERECTION WEIGHT [kg]	8.1
OVERALL WEIGHT [kg]	807.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	12"	BW
W2	10"	TRN
W3	10"	TRN
W4	12"	BW
EW5	10"	BW
W6	12"	BW
W7	12"	BW
EW8	8"	BW
W9	12"	BW
W10	12"	BW
W11	12"	BW

CUTTING LIST

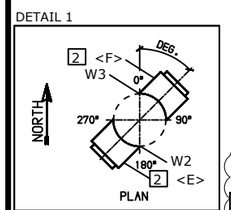
PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	12"	500	BEVEL	BEVEL
B	12"	1250	BEVEL	BEVEL
C	12"	3706	BEVEL	BEVEL
D	12"	6428	BEVEL	SQ.CUT
E	10"	506	SHAPED	SQ.CUT
F	10"	506	SHAPED	SQ.CUT

SUPPORT LIST

PS-01032.1
PS-01033.1
PS-02114.1
PS-02114.2
PS-02114_1.1
PS-02114_2.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	92.0	443.4
B	12.0	355.5
ERECT.	18.0	8.1

DETAIL 1



S-222-B-10"-6.35-469-515-90

SPOOL-B ONLY 02

HOOK-UP 007

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	RM	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 12"-DR-264-01CS-N
SK. 128

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 17-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00128 | SHEET / OF: 1 / 1 | REV.: 02

56-11-TP-102

MASTER

LINE DATA											
NDT INSPECTION CATEGORY	2			PED CATEGORY	Art. 4, par. 3						
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE	Liquid						
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]					
HEAT TRACING	N/A			TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A				

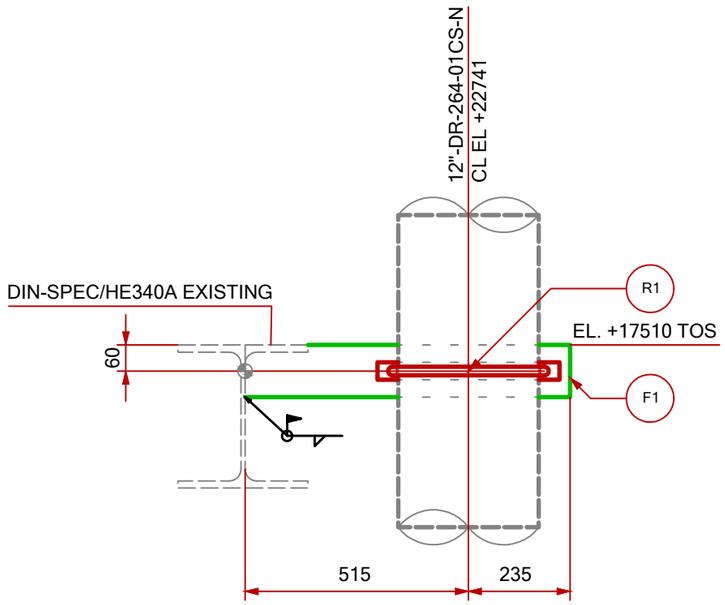
REFERENCE DOCUMENTS	
P&ID	123A90-DDL-PR-PID-80043
ISOMETRIC SHOP DWG LIST	123A90-FDL-PP-LIS-00001
PIPING SUPPORT BOOK	123A90-DDL-PP-DD-72000
PIPING MATERIAL CLASS	123A90-DDL-PP-SP-70029

NOTES

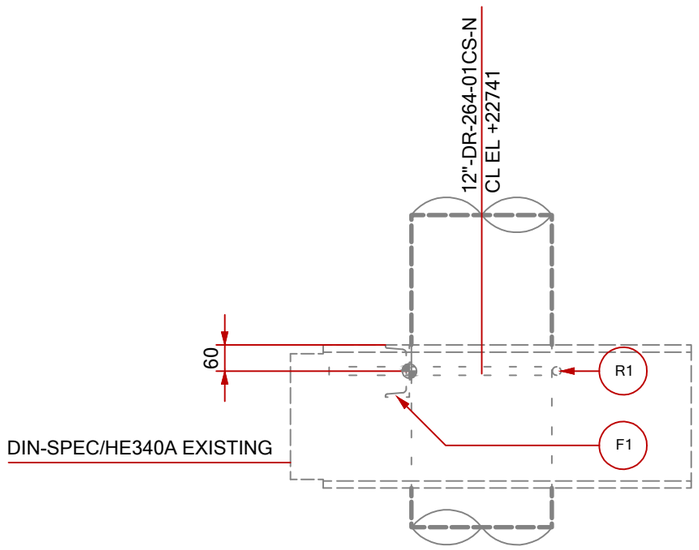
6. EXTRACT OF SUPPORT LIST & DETAILS

SUPPORT LIST

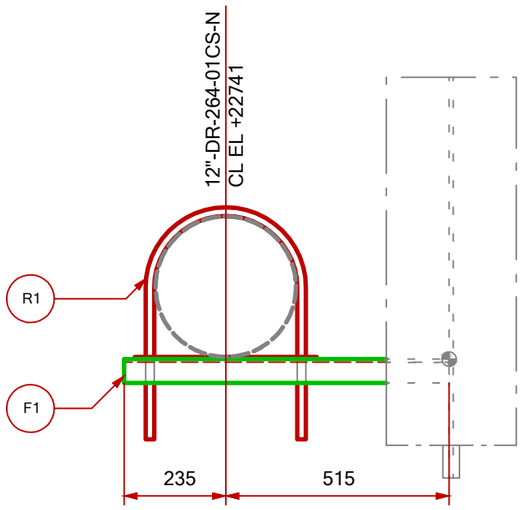
SUPPORT	SUFFIX	SERVICE	DECK IDENTIFICATION	SUB ASSEMBLY	LINE	SUPPORTS STANDARD	NDT CATEGORY	QUANTITY	TOT. WEIGTH (KG)	PAINTING SURFACE (SQM)	REV	DATE	STATUS	NOTES	Test Pack N°
PS-01033	B1	PIP	LOWER DECK		12"-DR-264-01CS-N	S-211 - 12"		1	4,068	0,000	00	19/08/2024	IFR		TP-102



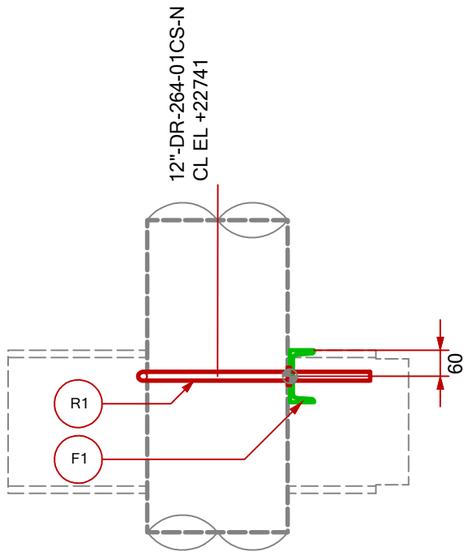
VIEW LOOKING SOUTH



VIEW LOOKING WEST



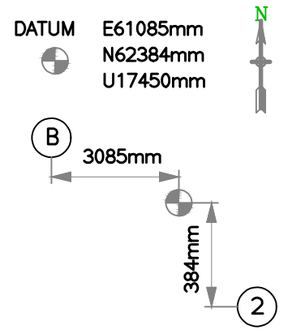
PLAN VIEW

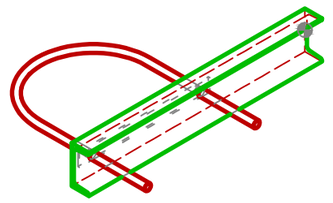


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-211-12"	-	-	1	-	4.07	-
F1	BEAM	UPN120	Carbon Steel	750	1	13.35	10.01	0.325
						TOTAL	14.1	0.32





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-01033

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 10
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

File Name :

ROSETTI MARINO

STANDARD SPECIFICATION
PIPE SUPPORT DETAIL STANDARD

Document Number: STD–PP–DD–0001

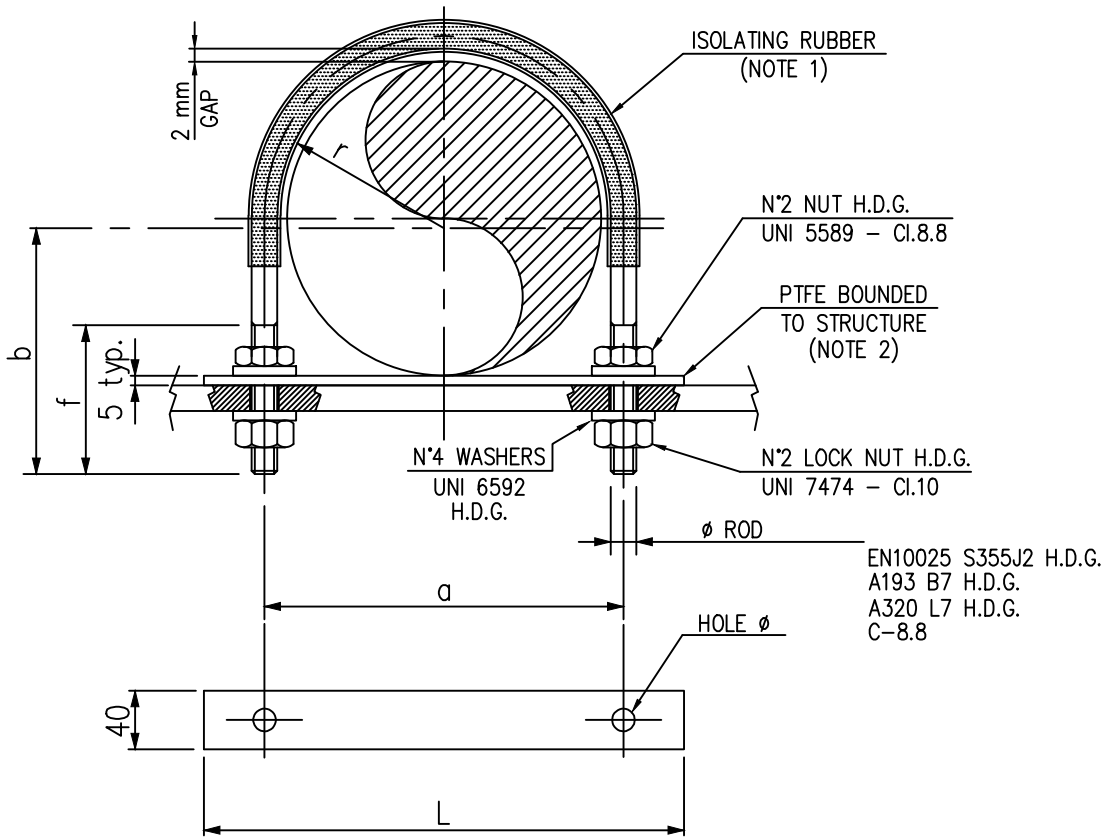
Revision: 0

Date: –

CAVALLOTTI GALVANIZZATI DI GUIDA PER TUBAZIONI IN C.S S.S. E ALLOY
GALVANIZED U–BOLTS GUIDE FOR C.S. S.S. AND ALLOY PIPES (NON GRIP)

S–211

Example of designation : STD – PIPE ND"
(S–211 – 10")



SIZE ND	ROD DIA	r	a	b	f	L	HOLE ø	DEV	DEV. RUBBER	WEIGHT Kg
½"	M8	14	36	55	52	65	10	167	62	0.16
3/4"	M8	17	42	55	52	70	10	176	75	0.16
1"	M8	20	48	60	55	80	10	196	90	0.18
1½"	M10	27	64	70	65	100	12	240	120	0.32
2"	M10	33	76	80	70	110	12	280	150	0.35
3"	M12	48	108	100	80	150	14	370	210	0.60
4"	M12	60	132	110	80	180	14	430	260	0.67
6"	M16	87	190	150	100	250	18	600	380	1.39
8"	M16	113	242	170	100	300	18	720	500	1.60
10"	M16	140	296	200	100	350	18	865	650	1.86
12"	M20	165	350	240	120	420	22	1030	750	3.31
14"	M20	181	382	260	120	450	22	1120	840	3.55
16"	M24	207	438	290	130	520	26	1270	1000	5.76
18"	M24	232	488	320	130	570	26	1410	1100	6.28
20"	M30	257	544	360	160	640	32	1570	1200	11.02
24"	M30	308	646	410	160	750	32	1830	1450	12.52

NOTES:

1) HEAT SHRINK TUBE TYPE FLAME RETARDANT, WITH RATIO 2:1
2) MULTIPLE SHEETS OF PTFE CAN BE ADDED IN ORDER TO ENSURE THE CORRECT ELEVATION AND SLOPE OF THE LINES.

Revision Number	Date	Description	DRAW	CHKD.	APPR.
00	–	ISSUED FOR REVIEW	SLO	GMA	MCO

Documento di proprietà aziendale.La Società tutelerà i propri diritti a termine di legge.This document is Company property. The Company lawfulliy reserves all rights.

7. WELDING REGISTER & MATERIAL TRACEABILITY RECORD

Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	PP	Piping			
To Discipline	PP	Piping			
Drawings		**From**	128	**To**	128
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH) Order Number CW-I-WP4-2023-05

Client CRWIND CROSSWIND

Discipline PP Piping ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date	Spool
1/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**CAP**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
01CS	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
2/128/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**TRU**	**10,00 mm**	**6,35 mm**	**FILL**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**F**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		MT	FIN	Weld Completion				10 %			Acceptable								
3/128/1/_		**01**	**11-06-2024**	**4**	**AZ35**			**TRU**	**10,00 mm**	**6,35 mm**	**FILL**	**0,857 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**F**	**20-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		MT	FIN	Weld Completion				10 %			Acceptable								
4/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
5/128/1/_		**01**	**03-09-2024**	**13**	**AX410**			**TEE**	**10,00 in**	**6,35 mm**	**V**	**0,857 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**04-09-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable				04-09-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
6/128/1/_		**01**	**08-06-2024**	**2**	**AZ35**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**21-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000012	3	Acceptable				21-06-2024				
7/128/1/_		**01**	**24-06-2024**	**7**	**AZ 32**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**A**
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
8/128/1/_		**01**	**04-09-2024**	**14**	**AX410**			**TEE**	**8,00 in**	**6,35 mm**	**V**	**0,688 m**	**M**	**C.S.**	**A1A**	**GTAW**	**BW**	**05-09-2024**	
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable				05-09-2024				
		RT	FIN	Weld Completion				10 %			Acceptable								
9/128/1/_		**01**	**08-06-2024**	**2-1**	**AZ35**			**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**04-09-2024**	**A**
					AX410	**After Cutting**													
	2	VIS	FTP	FIT-UP and on weld		123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
		RT	FIN	Weld Completion		IDL-QCI-RT 0036 00	PR	10 %	000013	3	Acceptable				21-06-2024				

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class / Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE			
9/128/1/_	**01**	**08-06-2024**	**2-1**	**AZ35**		**TEE**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**04-09-2024**	**A**
				AX410	**After Cutting**												
Cut 03-09-2024	VIS	C 1 DTA	After Cutting	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable	A1A	GTAW		04-09-2024				
	RT	C 1 DTA	After Cutting			10 %			Acceptable								
10/128/1/_	**01**	**08-06-2024**	**2-2**	**AZ35**		**FWN**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**05-09-2024**	**A**
				AX410	**After Cutting**												
2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				20-06-2024				
	RT	FIN	Weld Completion			10 %			Acceptable								
Cut 04-09-2024	VIS	C 1 DTA	After Cutting	123A90-PML-QHSE-PRO-00103 Rev 00	LCOSCA	100 %	OK		Acceptable	A1A	GTAW		05-09-2024				
	RT	C 1 DTA	After Cutting			10 %			Acceptable								
11/128/1/_	**01**	**24-06-2024**	**7**	**AZ 32**		**FWN**	**12,00 in**	**6,35 mm**	**V**	**1,017 m**	**P**	**C.S.**	**A1B**	**GTAW+FCAW**	**BW**	**25-06-2024**	**B**
2	VIS	FTP	FIT-UP and on weld	123A90-PML-QHSE-PRO-00103 Rev 00	AGAVELLA	100 %	OK		Acceptable				25-06-2024				
	RT	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**128**	**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**8,86 m**	**9 Nr. Welds**	**84,00 inch**
		Erection	**1,55 m**	**2 Nr. Welds**	**18,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Accepted	**10,41 m**	**11 Nr. Welds**	**102,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

CROSSWIND / ROSETTI MARINO	Cliente/Contractor	**CROSSWIND**	Preparato da/Prepared by	Controllato da/Checked by	Approvato da/Approved by
	SubContrattista/SubContractor	**ROSETTIMARINO/GROUPOFCOMPANY**	Nome/Name: Antonio Galesi	Nome/Name:	Nome/Name:
	Progetto/Project	**Hollandse Kust Noord Wind Park Project**			
	Commessa/Job	**123A90 - Piping**			
	Disciplina/Discipline	**PIPING**			
	TitoloDocumento/DocumentTitle	**Material Traceability Report**	StatoDocumento/Document Status:		Data/Date: 04/12/2024
	RosettiDoc.Num.	**123A90MTR001**			

Sketch no.	Rev.	sheet	Spool	Piping Class	pos.	Q.ty (n° - m)	Description	Heat/Serial Number	PurchaseOrder	Pos. Order	Mat. Certificate	Weld Ref.	Note
128	02	1	A	01CS	3	1	Tee Reducing BW ›12"x10" Thk.6.35mmx6.35mm ASTM/ASME A/SA420 Gr.WPL6	948456	1724000994	00260	1CL-08628	W4-W6	
128	02	1	A	01CS	4	1	Tee Reducing BW ›12"x8" Thk.6.35mmx6.35mm ASTM/ASME A/SA420 Gr.WPL6	453686	1724000994	00250	7015/22	W7-W9	
128	02	1	A	01CS	5	1	Cap BW ›12" Thk.6.35mm ASTM/ASME A/SA420 Gr.WPL6	633449	1724000994	00010	CE22012089_3.1_01	W1	
128	02	1	A	01CS	6	1	Flange WN ›12" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	22/35031	1724000994	00120	2024-C_MMF-01283	W10	
128	02	1	A	01CS	1A	0,5	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	1B	1,25	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	1C	3,706	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		
128	02	1	A	01CS	2E	0,506	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
128	02	1	A	01CS	2F	0,506	Pipe 273.0mm(10") thk.6.35mm ASTM/ASME A/SA333 Gr.6	1220575	1724000995	00040	0001		
128	02	1	A	01CS	STD S-222	1	PIPE - STD S-222	1220575	1724000995	00040	0001	W2	
128	02	1	A	01CS	STD S-222	1	PIPE - STD S-222	1220575	1724000995	00040	0001	W3	
128	02	1	B	01CS	6	1	Flange WN ›12" Thk.6.35mm 150LB RF ASTM/ASME A/SA350 Gr.LF2	22/35031	1724000994	00120	2024-C_MMF-01283	W11	
128	02	1	B	01CS	1D	6,428	Pipe 323.8mm(12") thk.6.35mm ASTM/ASME A/SA333 Gr.6	934090	1724000995	00050	01-23-11254		

8. PIPING & VESSEL PRE-COMMISSIONING CONFORMITY CHECKS & TESTS:

8.1 CLX02A - Pipework Before test

8.2 CLX02B - Pipework After Test

8.3 CXX01 - Thermal insulation – NOT APPLICABLE

8.4 CXX02 – Painting Line

8.5 TMX03 – Cleaning – NOT APPLICABLE

8.6 TMX05 – Pressure test – NOT APPLICABLE

8.7 TMX25 – Gross Air Leak Test – NOT APPLICABLE

8.8 TMX27 – Bolt Tensioning / Torquing

8.9 TPLX05 – Drying – NOT APPLICABLE

ITEM	Tag	56-11-TP-102	: Test Pack 56-11-TP-102			Dwg	123A90-DDL-PR-PID-80043
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	TP
TASK	code	C10003725		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	CLX02B Pipework After Test

1	Check that the pipework and equipment are drained as per procedure.
2	Check if all temporary equipment (test spades, filters ,spool pieces..etc) have been removed.
3	All plugs installed on vents and drains for test have been removed.
4	Check that all removed devices and valves have been re-installed.
5	Check that the new gaskets have been installed after pipework and equipment reinstallation.
6	All specific blinds and / or spectacle blinds have been correctly installed as per P&ID.
7	Check that the pipework, valves , check valves are undamaged. Also check the ancillaries and any other components.
8	After the (re) installation of a valve check that it operates freely.
9	Check that the flow direction of the valves and check – valve is in correct sense /direction in correct open/closed position as per P&ID.
10	Check all locking device.
11	Check that the valves have been correctly lubricated and that they have the correct spindle packing.
12	Check that all the bolts and fasteners are suitably lubricated inline with the flange management procedure.
13	Check that the bolts have been tightned at opened joints.
14	Check that all golden welds (final tie-ins without hydrotest) have been performed as per procedure.
15	Check for the correct tagging, labeling and colour coding of pipework and equipment (only for bare pipe lines).
16	Check that the pipework and equipment (re) installation conforms to the specifications, drawings and to the P&ID's.
17	If required produce Red Line Mark Up for "AS BUILT".

Comments:

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

ITEM	Tag	56-11-TP-102	: Test Pack 56-11-TP-102			Dwg	123A90-DDL-PR-PID-80043
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	TP
TASK	code	C10003726		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Piping	Form	CXX02 Painting Line

1 Check that the completed painting is in accordance with the specifications covering quality and thickness.

2 Check that the color coding conforms to the specifications.

3 Check that the fluid direction is correct.

4 Check that line marking is correct.

5 Check that the painting of piping systems and of the equipment is "touched-up" and conforms to the specifications.

6 If required produce Red Line Mark Up for "AS BUILT".

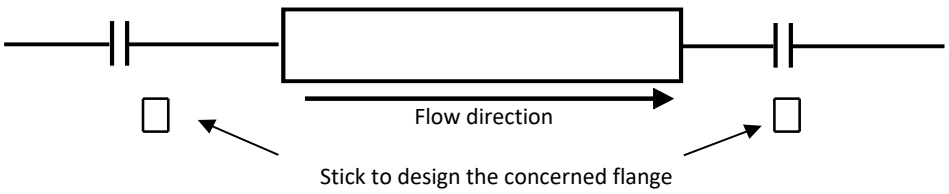
Comments:

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

ITEM	Tag	128-1-J1	: Joint 128-1-J1			Dwg	123A90-FDL-PP-DI-00128-01
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	TP
TASK	code	C10003831		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	TMX27		Bolt tensioning / torquing

Test Pack N.: TP-102

EQUIPMENT TAG



Flange Type	150LB	**Lubricant**	Yes
Flange Size	12"	**Lubricant Type**	MOLYKOTE 1000 PASTE
Gasket Type	Gasket Spiral Wound Thk. 3.2 mm	**Used tools**	
Bolt tensioning/Torquing value	335.2		

			Torque (Design Value)		
Sequence	Pre tension/torque	Final tension/torque	30%	60%	100%
1			101	201	335.2
2			101	201	335.2
3			101	201	335.2
4			101	201	335.2
5			101	201	335.2
6			101	201	335.2
7			101	201	335.2
8			101	201	335.2
9			101	201	335.2
10			101	201	335.2
11			101	201	335.2
12			101	201	335.2
13			101	201	335.2
14			101	201	335.2
15			101	201	335.2
16			101	201	335.2
17			101	201	335.2
18			101	201	335.2
19			101	201	335.2
20			101	201	335.2

1 **Clear Bore Inspection:** Pipe and Valve clear of debris/contamination.

2 **Flange Face Check:** Both flanges clean and free from damage.

3 **Gaskets and Bolts:** Gaskets and Bolts checked for correctness to specification, any damage and for correct length technique.

4 **Alignment:** Check alignment according to code.

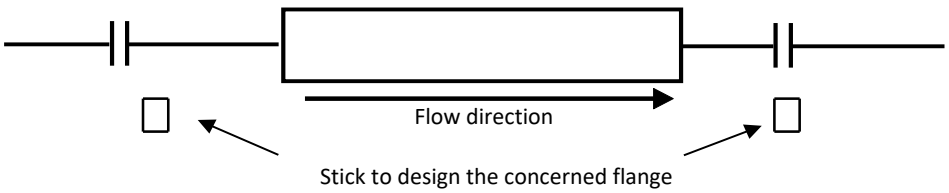
Comments:

Page 1/1	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

ITEM	Tag	129-1-J1	: Joint 129-1-J1			Dwg	123A90-FDL-PP-DI-00129-01
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003832		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	TMX27 — Bolt tensioning / torquing

Test Pack N.: TP-048

EQUIPMENT TAG



Flange Type	150LB	**Lubricant**	Yes
Flange Size	10"	**Lubricant Type**	MOLYKOTE 1000 PASTE
Gasket Type	Gasket Spiral Wound Thk. 3.2 mm	**Used tools**	Torque wrench RD00261/V050487
Bolt tensioning/Torquing value	335.2		

			Torque (Design Value)		
Sequence	Pre tension/torque	Final tension/torque	30%	60%	100%
1	101	336	101	201	335.2
2	101	336	101	201	335.2
3	101	336	101	201	335.2
4	101	336	101	201	335.2
5	101	336	101	201	335.2
6	101	336	101	201	335.2
7	101	336	101	201	335.2
8	101	336	101	201	335.2
9	101	336	101	201	335.2
10	101	336	101	201	335.2
11	101	336	101	201	335.2
12	101	336	101	201	335.2
13			101	201	335.2
14			101	201	335.2
15			101	201	335.2
16			101	201	335.2
17			101	201	335.2
18			101	201	335.2
19			101	201	335.2
20			101	201	335.2

1 **Clear Bore Inspection:** Pipe and Valve clear of debris/contamination. Yes

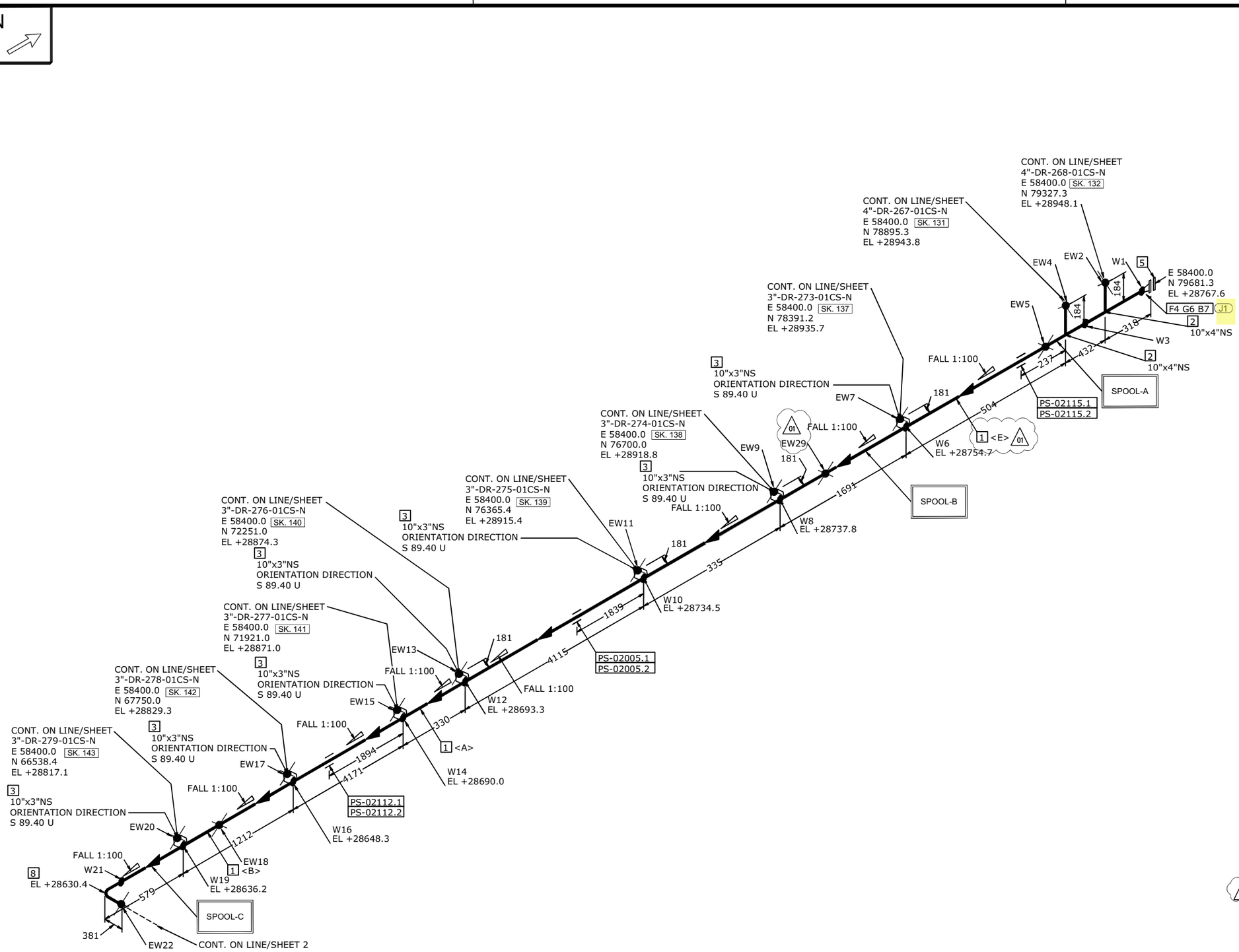
2 **Flange Face Check:** Both flanges clean and free from damage. Yes

3 **Gaskets and Bolts:** Gaskets and Bolts checked for correctness to specification, any damage and for correct length technique. Yes

4 **Alignment:** Check alignment according to code. Yes

Comments:

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Massimo Bruschi	
Date	2025-02-07	2025-02-17	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-02-07T13:22:49.096Z	PROVERLIS Digitaly signed by Massimo Bruschi 2025-02-17T16:17:27.574Z	



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	10	PIPECS10391000	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	12.4 M	515.5
2	10 x 4	TER0CS26351004	Tee Reducing ASME B16.9 BW 6,35x6,02 WRS ASTM/ASME A/SA420 Gr.WPL6	2	56.1
3	10 x 3	OWELCS26851003	Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2	7	12.6
4	10	FLW0CS16591000	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	24.0
8	10	FLW0CS16591000	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	25.3
ERECTION					
5	10	FLB0CS07911000	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	24.0
6	10	GSW0GK11181000	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.6
7	7/8	SB20BO22250500	120 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	12	7.8

FABRICATION WEIGHT [kg]	633.5
ERECTION WEIGHT [kg]	32.4
OVERALL WEIGHT [kg]	665.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	10"	BW
EW2	4"	BW
W3	10"	BW
EW4	4"	BW
EW5	10"	BW
W6	3"	LET
EW7	3"	BW
W8	3"	LET
EW9	3"	BW
W10	3"	LET
EW11	3"	BW
W12	3"	LET
EW13	3"	BW
W14	3"	LET
EW15	3"	BW
W16	3"	LET
EW17	3"	BW
EW18	10"	BW
W19	3"	LET
EW20	3"	BW
W21	10"	BW
EW22	10"	BW
01 EW29	10"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	10"	10469	BEVEL	BEVEL
B	10"	581	BEVEL	BEVEL
E	10"	1290	BEVEL	BEVEL
		01		

SUPPORT LIST

PS-02115.1
PS-02115.2
PS-02005.1
PS-02005.2
PS-02112.1
PS-02112.2

SPOOL	WELD [inches]	WEIGHT [kg]
A	20.0	80.1
B	18.0	503.7
C	13.0	49.7
	01	
ERECT.	69.0	32.4

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 10"-DR-265-01CS-N
SK. 129

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00129 | SHEET / OF: 1 / 2 | REV.: 01

LINE DATA

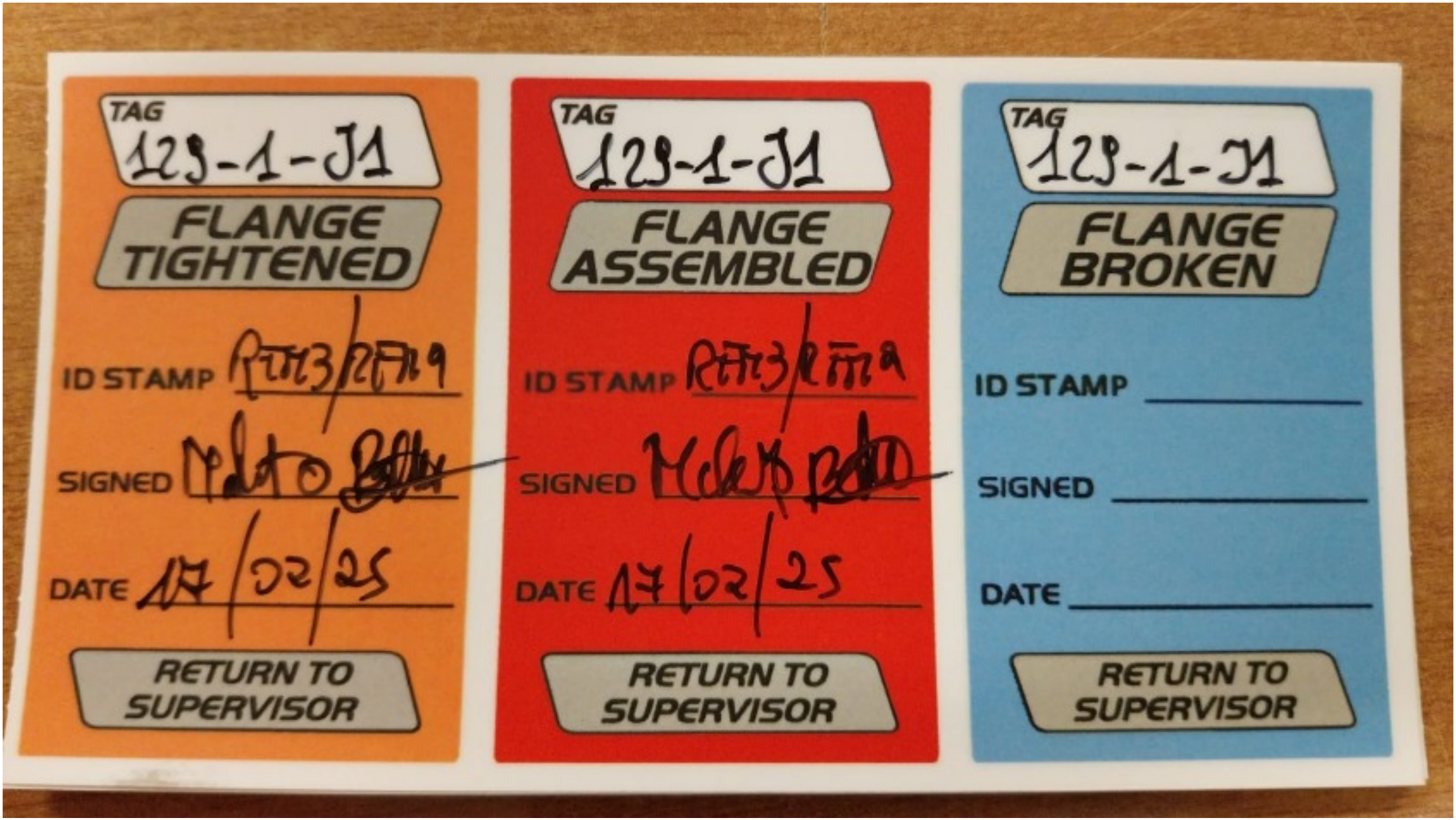
NDT INSPECTION CATEGORY	2		PED CATEGORY	01 Art. 4, par. 3					
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE	Liquid					
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5 [barg]	TEMP. - / 80 [°C]				
HEAT TRACING	N/A		TEST	PRESS. N/A [barg]	TEMP. AMB	MEDIUM N/A			

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

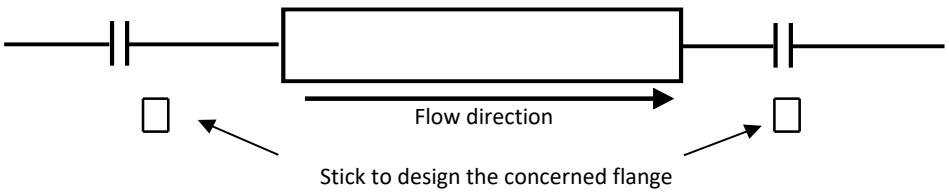
MASTER


TAG
123-1-J1
FLANGE TIGHTENED
ID STAMP
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
123-1-J1
FLANGE ASSEMBLED
ID STAMP
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
123-1-J1
FLANGE BROKEN
ID STAMP
SIGNED
DATE
RETURN TO SUPERVISOR

ITEM	Tag	130-1-J1	: Joint 130-1-J1			Dwg	123A90-FDL-PP-DI-00130-01
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003833		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	TMX27 — Bolt tensioning / torquing

Test Pack N.: TP-048

EQUIPMENT TAG



Flange Type	150LB	**Lubricant**	Yes
Flange Size	8"	**Lubricant Type**	MOLYKOTE 1000 PASTE
Gasket Type	Gasket Spiral Wound Thk. 3.2 mm	**Used tools**	Torque wrench V030390 / RD00261
Bolt tensioning/Torquing value	211.1		

			Torque (Design Value)		
Sequence	Pre tension/torque	Final tension/torque	30%	60%	100%
1	63	212	63	127	211.1
2	63	212	63	127	211.1
3	63	212	63	127	211.1
4	63	212	63	127	211.1
5	63	212	63	127	211.1
6	63	212	63	127	211.1
7	63	212	63	127	211.1
8	63	212	63	127	211.1
9			63	127	211.1
10			63	127	211.1
11			63	127	211.1
12			63	127	211.1
13			63	127	211.1
14			63	127	211.1
15			63	127	211.1
16			63	127	211.1
17			63	127	211.1
18			63	127	211.1
19			63	127	211.1
20			63	127	211.1

1 **Clear Bore Inspection:** Pipe and Valve clear of debris/contamination. Yes

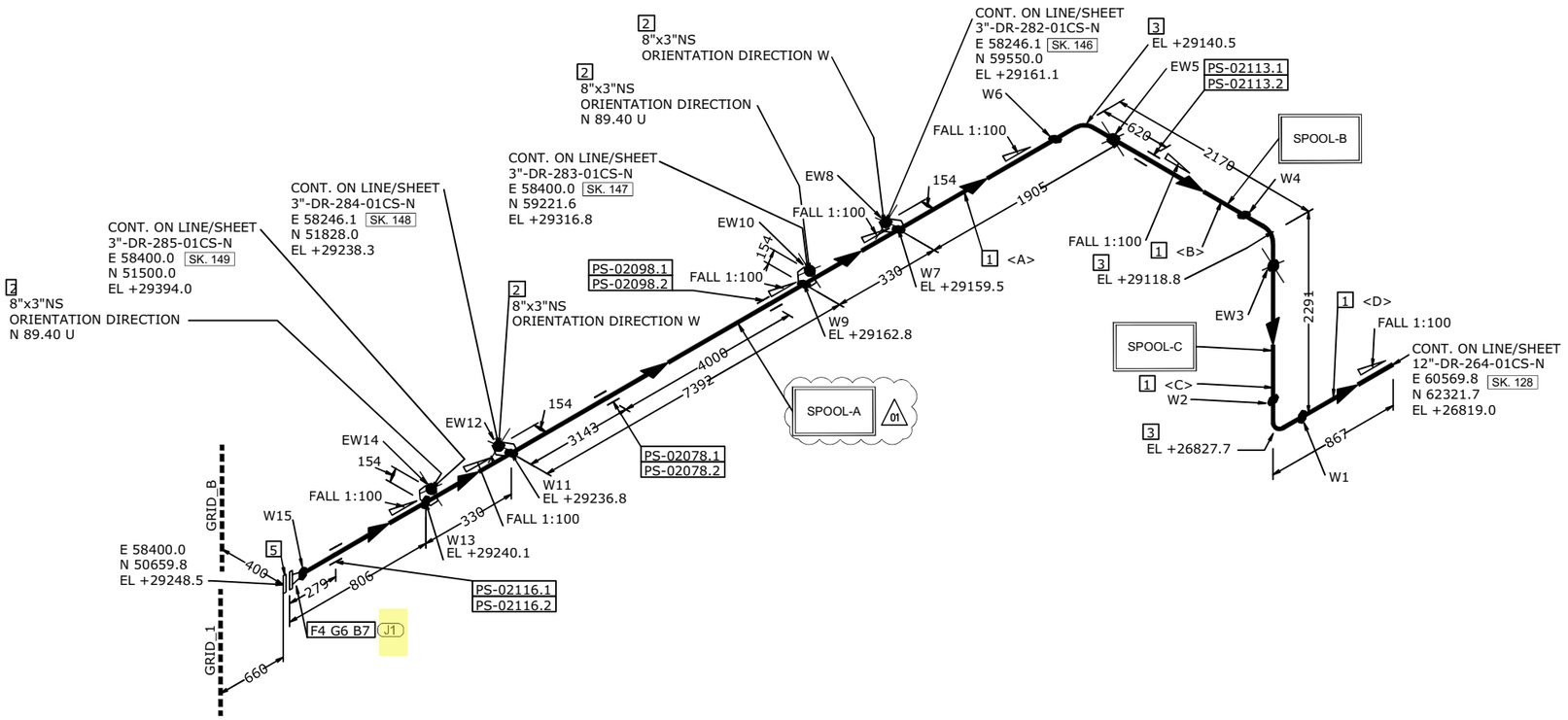
2 **Flange Face Check:** Both flanges clean and free from damage. Yes

3 **Gaskets and Bolts:** Gaskets and Bolts checked for correctness to specification, any damage and for correct length technique. Yes

4 **Alignment:** Check alignment according to code. Yes

Comments:

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Massimo Bruschi	
Date	2025-02-07	2025-02-17	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-02-07T13:23:02.506Z	PROVERLIS Digitaly signed by Massimo Bruschi 2025-02-17T16:17:19.193Z	



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	8	PIPECS10380800	Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6	14.2 M	471.8
2	8 x 3	OWELCS26640803	Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2	4	7.2
3	8	E90RCS06460800	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	3	47.6
4	8	FLW0CS16580800	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	18.0
ERECTION					
5	8	FLB0CS01010800	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	18.0
6	8	GSW0GK11170800	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.5
7	3/4	SB20BO00700400	110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	3.4

FABRICATION WEIGHT [kg]	544.6
ERECTION WEIGHT [kg]	21.9
OVERALL WEIGHT [kg]	566.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	8"	BW
W2	8"	BW
EW3	8"	BW
W4	8"	BW
EW5	8"	BW
W6	8"	BW
W7	3"	LET
EW8	3"	BW
W9	3"	LET
EW10	3"	BW
W11	3"	LET
EW12	3"	BW
W13	3"	LET
EW14	3"	BW
W15	8"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	8"	10356	BEVEL	BEVEL
B	8"	1560	BEVEL	BEVEL
C	8"	1681	BEVEL	BEVEL
D	8"	562	BEVEL	BEVEL

SUPPORT LIST

PS-02116.1
PS-02116.2
PS-02078.1
PS-02078.2
PS-02098.1
PS-02098.2
PS-02113.1
PS-02113.2

SPOOL	WELD [inches]	WEIGHT [kg]
A	28.0	386.1
B	8.0	67.9
C	16.0	90.6
ERECT.	28.0	21.9

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 8"-DR-266-01CS-N
SK. 130

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00130 | SHEET / OF: 1 / 1 | REV.: 01

LINE DATA

NDT INSPECTION CATEGORY	2			PED CATEGORY	01	Art. 4, par. 3					
PAINTING	SYSTEM	1	BASE RAL RAL 9002	FLUID PHASE		Liquid					
INSULATION	TYPE	N	THICKNESS 0 [mm]	DESIGN	PRESS.	3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A			TEST	PRESS.	N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

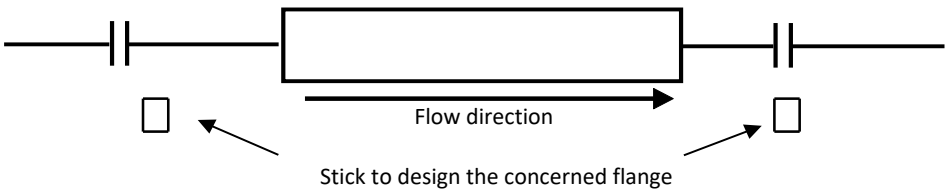
MASTER


TAG
130-1-J1
FLANGE TIGHTENED
ID STAMP RFH3/RFH9
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
130-1-J1
FLANGE ASSEMBLED
ID STAMP RFH3/RFH9
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
130-1-J1
FLANGE BROKEN
ID STAMP
SIGNED
DATE
RETURN TO SUPERVISOR

ITEM	Tag	131-1-J1	: Joint 131-1-J1			Dwg	123A90-FDL-PP-DI-00131-01
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003834		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	TMX27		Bolt tensioning / torquing

Test Pack N.: TP-048

EQUIPMENT TAG



Flange Type 150LB

Flange Size 4"

Gasket Type Gasket Spiral Wound Thk. 3.2 mm

Bolt tensioning/Torquing value 122.2

Lubricant Yes

Lubricant Type MOLYKOTE 1000 PASTE

Used tools Torque wrench T064079 / RD00261

			Torque (Design Value)		
Sequence	Pre tension/torque	Final tension/torque	30%	60%	100%
1	37	123	37	73	122.2
2	37	123	37	73	122.2
3	37	123	37	73	122.2
4	37	123	37	73	122.2
5	37	123	37	73	122.2
6	37	123	37	73	122.2
7	37	123	37	73	122.2
8	37	123	37	73	122.2
9			37	73	122.2
10			37	73	122.2
11			37	73	122.2
12			37	73	122.2
13			37	73	122.2
14			37	73	122.2
15			37	73	122.2
16			37	73	122.2
17			37	73	122.2
18			37	73	122.2
19			37	73	122.2
20			37	73	122.2

1 **Clear Bore Inspection:** Pipe and Valve clear of debris/contamination. Yes

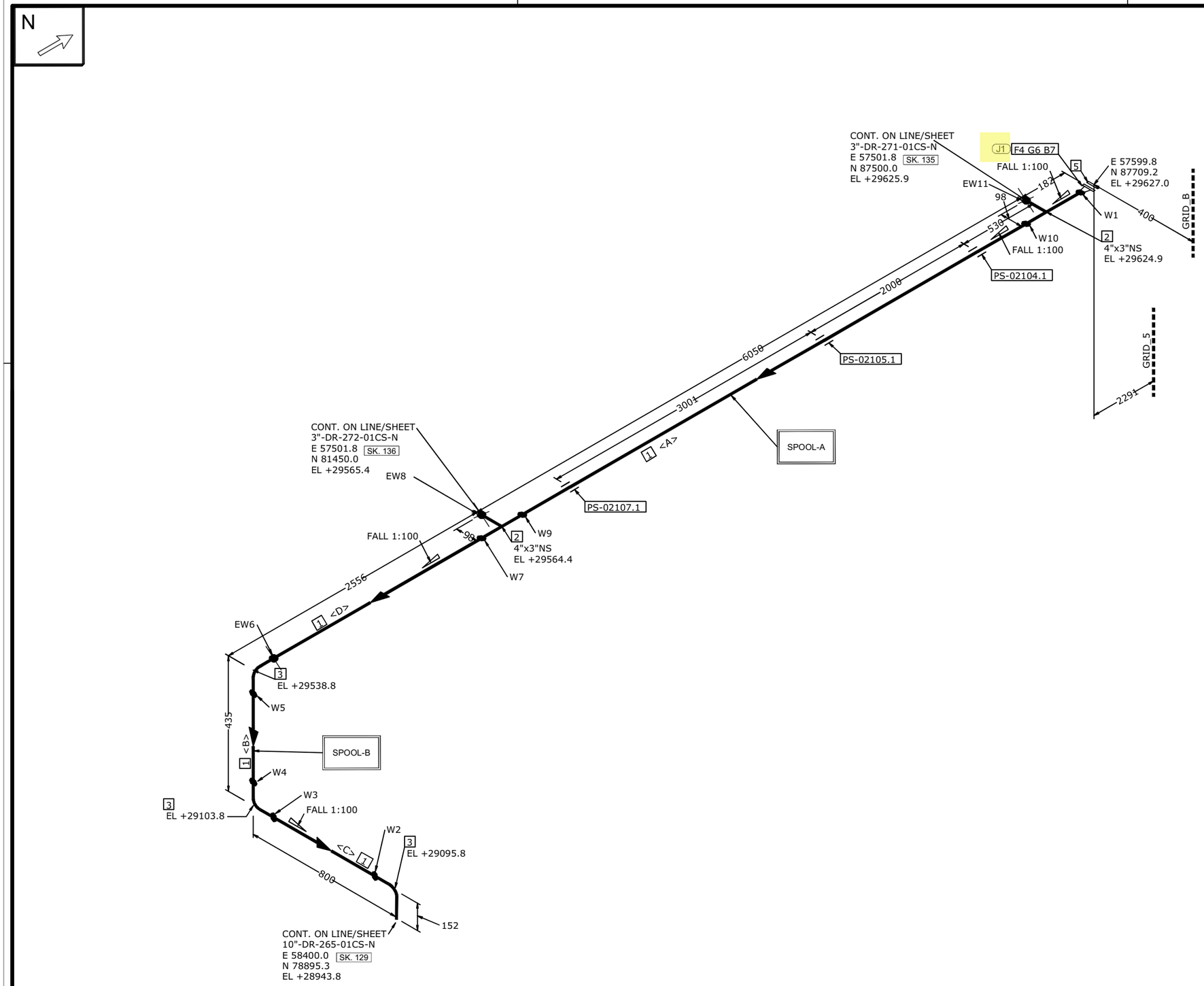
2 **Flange Face Check:** Both flanges clean and free from damage. Yes

3 **Gaskets and Bolts:** Gaskets and Bolts checked for correctness to specification, any damage and for correct length technique. Yes

4 **Alignment:** Check alignment according to code. Yes

Comments:

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Massimo Bruschi	
Date	2025-02-07	2025-02-18	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-02-07T13:23:14.404Z	PROVERLIS Digitaly signed by Massimo Bruschi 2025-02-18T16:17:06.939Z	



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6.02 SML ASTM/ASME A/SA333 Gr.6	8.8 M	141.0
2	4 x 3	TER0CS15730403	Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	10.4
3	4	E90RCS02380400	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	3	11.7
4	4	FLW0CS03210400	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
ERECTION					
5	4	FLB0CS07390400	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
6	4	GSW0GK11150400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.2
7	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	2.0

FABRICATION WEIGHT [kg]	169.9
ERECTION WEIGHT [kg]	9.0
OVERALL WEIGHT [kg]	178.9

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4"	BW
W2	4"	BW
W3	4"	BW
W4	4"	BW
W5	4"	BW
EW6	4"	BW
W7	4"	BW
EW8	3"	BW
W9	4"	BW
W10	4"	BW
EW11	3"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4"	5840	BEVEL	BEVEL
B	4"	131	BEVEL	BEVEL
C	4"	496	BEVEL	BEVEL
D	4"	2299	BEVEL	BEVEL

SUPPORT LIST

PS-02104.1
PS-02105.1
PS-02107.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	16.0	148.1
B	16.0	21.8
ERECT.	10.0	9.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 4"-DR-267-01CS-N
SK. 131

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00131 | SHEET / OF: 1 / 1 | REV.: 01

LINE DATA

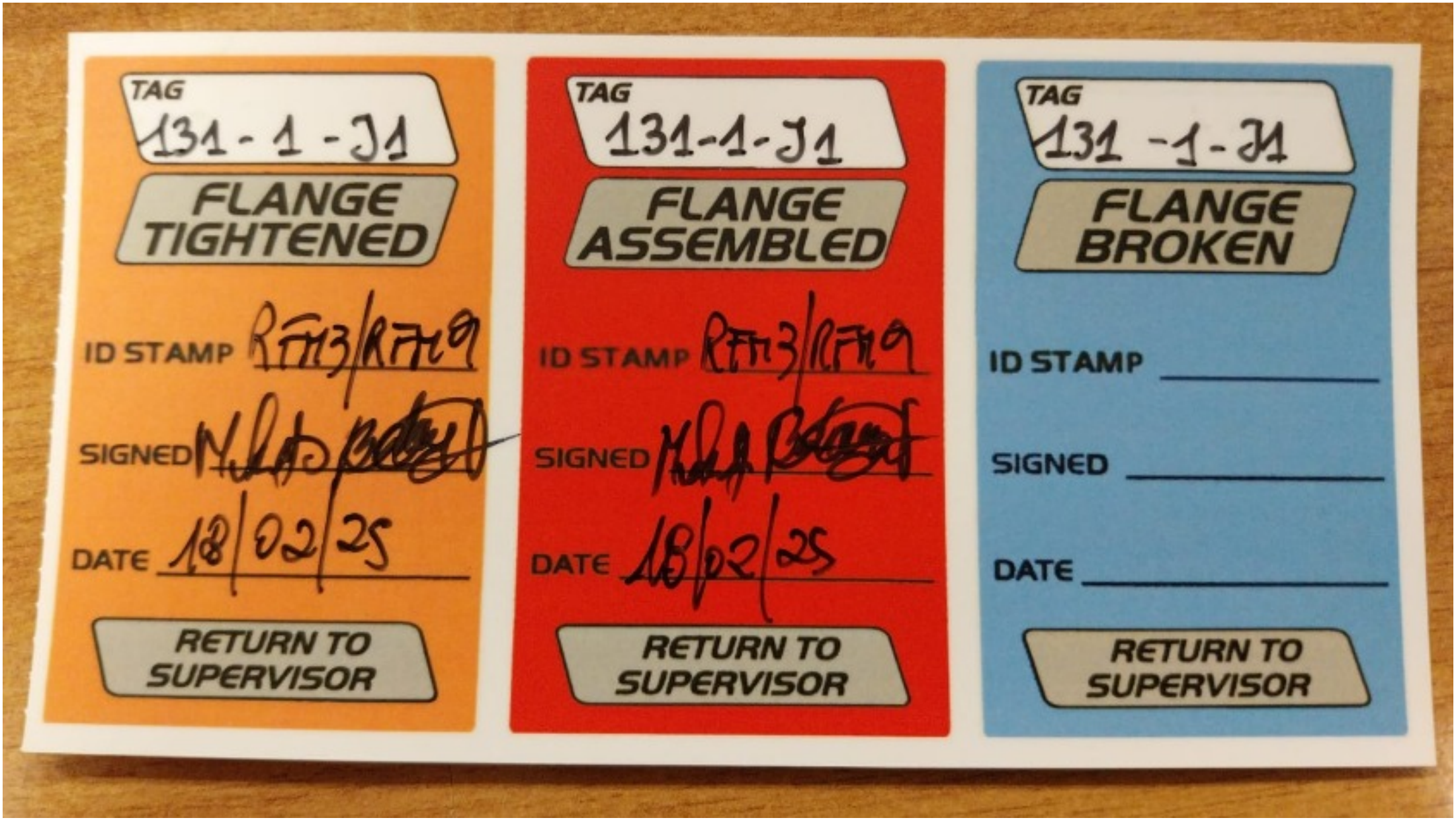
NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM 1	BASE RAL RAL 9002	FLUID PHASE		Liquid				
INSULATION	TYPE N	THICKNESS 0 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. - / 80	[°C]		
HEAT TRACING	N/A		TEST	PRESS. N/A	[barg]	TEMP. AMB	MEDIUM	N/A	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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

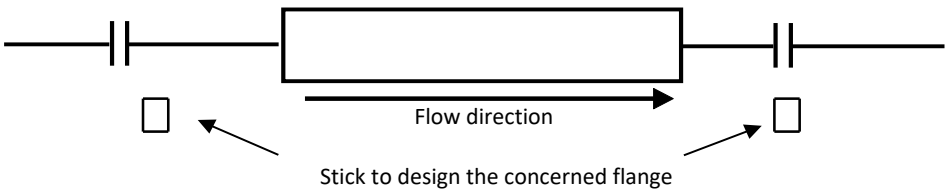
MASTER


TAG
131 - 1 - J1
FLANGE TIGHTENED
ID STAMP RFH3/RFH9
SIGNED
DATE 18/02/25
RETURN TO SUPERVISOR
TAG
131-1-J1
FLANGE ASSEMBLED
ID STAMP RFH3/RFH9
SIGNED
DATE 18/02/25
RETURN TO SUPERVISOR
TAG
131 -1- J1
FLANGE BROKEN
ID STAMP
SIGNED
DATE
RETURN TO SUPERVISOR

ITEM	Tag	132-1-J1	: Joint 132-1-J1			Dwg	123A90-FDL-PP-DI-00132-01
	S/Sys	56-11	: Non-Hazardous Open Drain Collection			Module	LD
TASK	code	C10003835		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity PIP	Discipline	Piping	Form	TMX27 — Bolt tensioning / torquing

Test Pack N.: TP-048

EQUIPMENT TAG



Flange Type 150LB

Flange Size 4"

Gasket Type Gasket Spiral Wound Thk. 3.2 mm

Bolt tensioning/Torquing value 122.2

Lubricant Yes

Lubricant Type MOLYKOTE 1000 PASTE

Used tools Torque wrench V030390 / RD00261

			Torque (Design Value)		
Sequence	Pre tension/torque	Final tension/torque	30%	60%	100%
1	37	123	37	73	122.2
2	37	123	37	73	122.2
3	37	123	37	73	122.2
4	37	123	37	73	122.2
5	37	123	37	73	122.2
6	37	123	37	73	122.2
7	37	123	37	73	122.2
8	37	123	37	73	122.2
9			37	73	122.2
10			37	73	122.2
11			37	73	122.2
12			37	73	122.2
13			37	73	122.2
14			37	73	122.2
15			37	73	122.2
16			37	73	122.2
17			37	73	122.2
18			37	73	122.2
19			37	73	122.2
20			37	73	122.2

1 **Clear Bore Inspection:** Pipe and Valve clear of debris/contamination. Yes

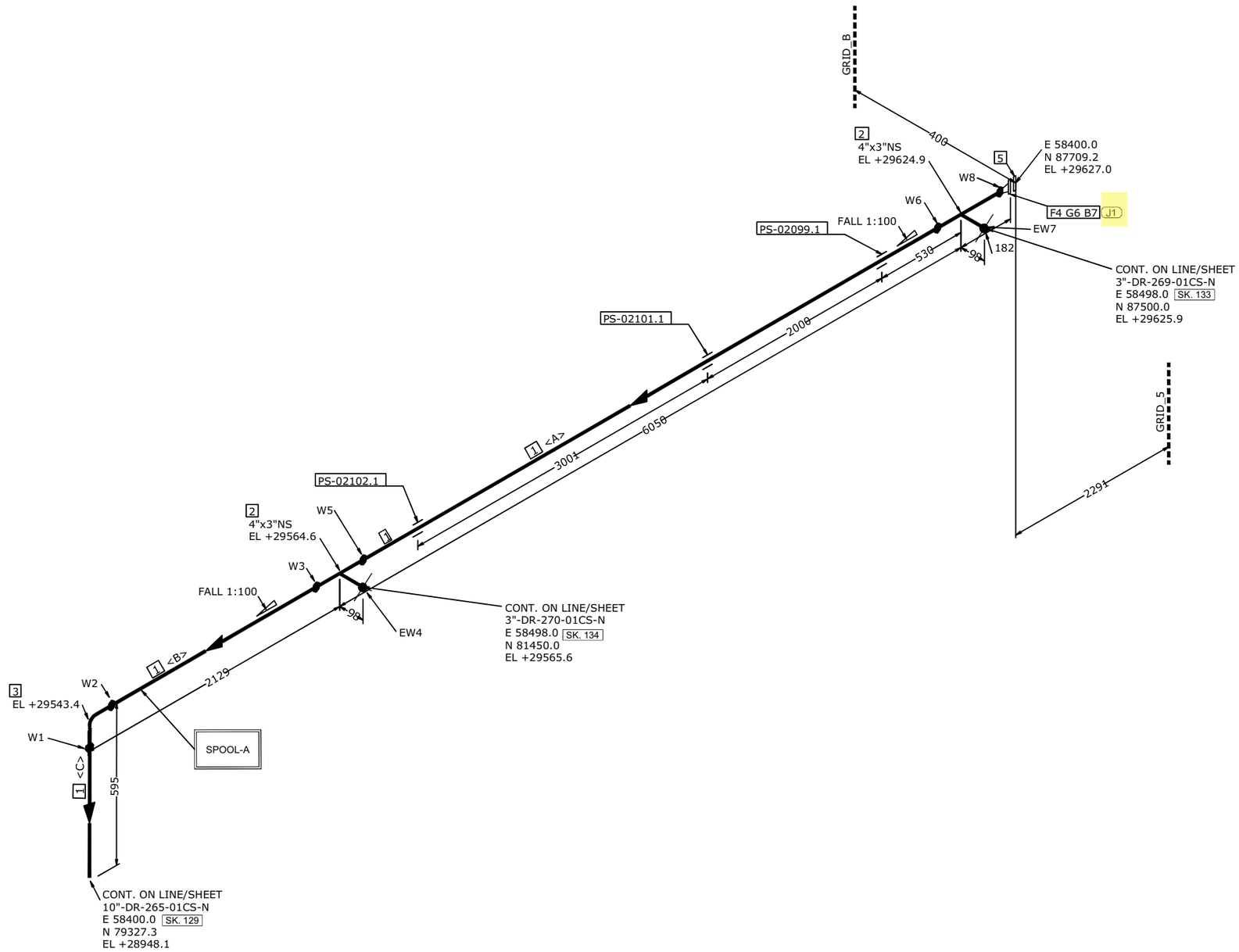
2 **Flange Face Check:** Both flanges clean and free from damage. Yes

3 **Gaskets and Bolts:** Gaskets and Bolts checked for correctness to specification, any damage and for correct length technique. Yes

4 **Alignment:** Check alignment according to code. Yes

Comments:

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RODEO	RM (ROSETTI MARINO)	
Name	Emanuele Delfino	Massimo Bruschi	
Date	2025-02-07	2025-02-17	
Signature	PROVERLIS Digitaly signed by Emanuele Delfino 2025-02-07T13:23:27.986Z	PROVERLIS Digitaly signed by Massimo Bruschi 2025-02-17T16:17:13.366Z	



MATERIAL LIST

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
FABRICATION					
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6.02 SML ASTM/ASME A/SA333 Gr.6	8.8 M	131.1
2	4 x 3	TER0CS15730403	Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6	2	10.4
3	4	E90RCS02380400	90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6	1	3.9
4	4	FLW0CS03210400	Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
ERECTION					
5	4	FLB0CS07390400	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	6.8
6	4	GSW0GK11150400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.2
7	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	2.0

FABRICATION WEIGHT [kg]	152.2
ERECTION WEIGHT [kg]	9.0
OVERALL WEIGHT [kg]	161.2

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4"	BW
W2	4"	BW
W3	4"	BW
EW4	3"	BW
W5	4"	BW
W6	4"	BW
EW7	3"	BW
W8	4"	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4"	5840	BEVEL	BEVEL
B	4"	1872	BEVEL	BEVEL
C	4"	443	BEVEL	BEVEL

SUPPORT LIST

PS-02099.1
PS-02101.1
PS-02102.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	24.0	152.2
ERECT.	6.0	9.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	03-09-2024	RM	RT	LM	REVISED WHERE INDICATED
00	04-06-2024	RM	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE: SHOP DRAWING ISOMETRIC
LINE NR. 4"-DR-268-01CS-N
SK. 132

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: RM | CHECKED: RT | APPROVED: LM | DATE: 03-09-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00132 | SHEET / OF: 1 / 1 | REV.: 01

LINE DATA

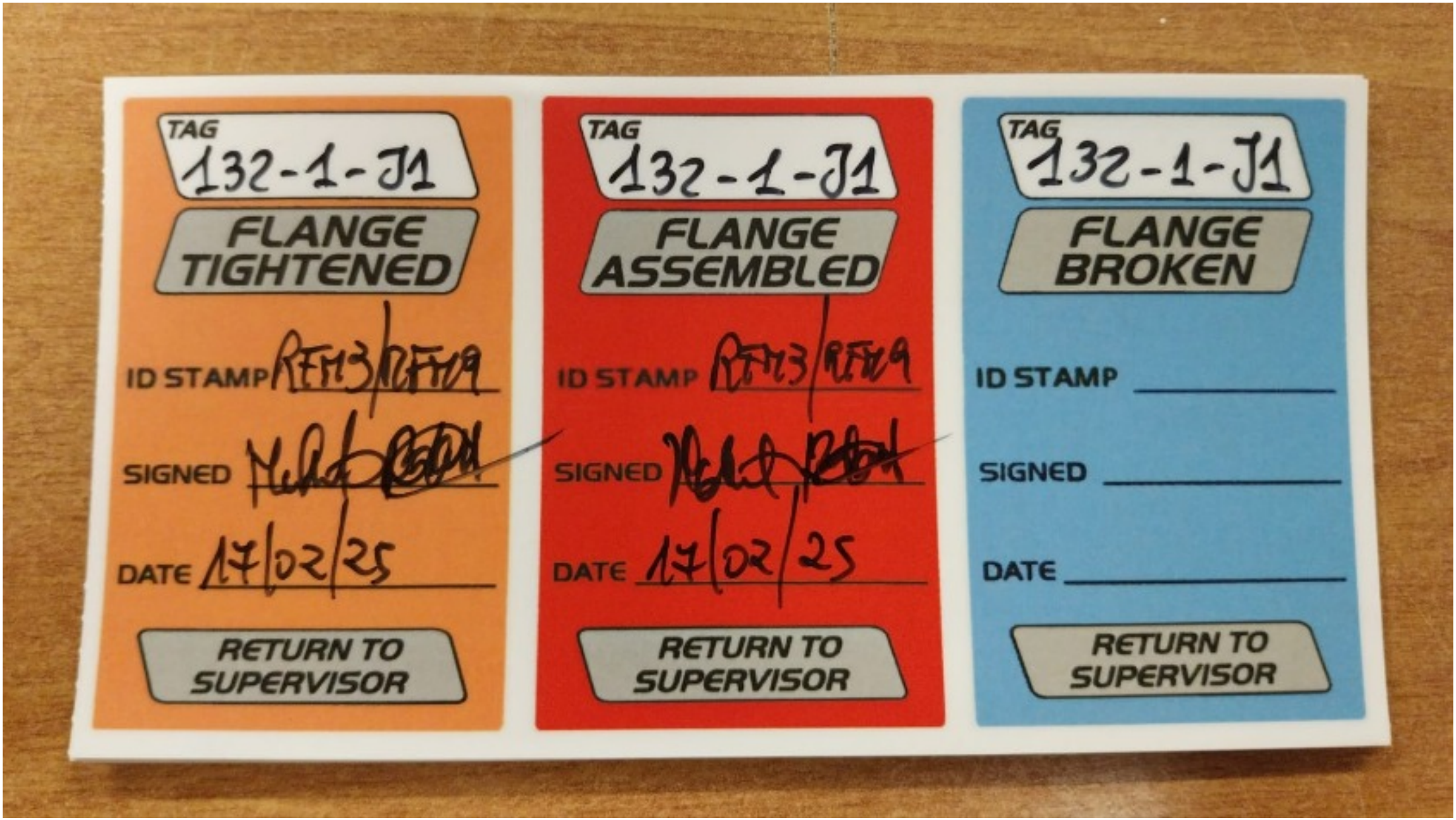
NDT INSPECTION CATEGORY	2		PED CATEGORY	01	Art. 4, par. 3				
PAINTING	SYSTEM	1	BASE RAL	RAL 9002	FLUID PHASE	Liquid			
INSULATION	TYPE	N	THICKNESS	0 [mm]	DESIGN	PRESS.	3.5 [barg]	TEMP.	- / 80 [°C]
HEAT TRACING	N/A		TEST	PRESS.	N/A [barg]	TEMP.	AMB	MEDIUM	N/A

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80043
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


TAG
132-1-J1
FLANGE TIGHTENED
ID STAMP
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
132-1-J1
FLANGE ASSEMBLED
ID STAMP
SIGNED
DATE 17/02/25
RETURN TO SUPERVISOR
TAG
132-1-J1
FLANGE BROKEN
ID STAMP
SIGNED
DATE
RETURN TO SUPERVISOR

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE