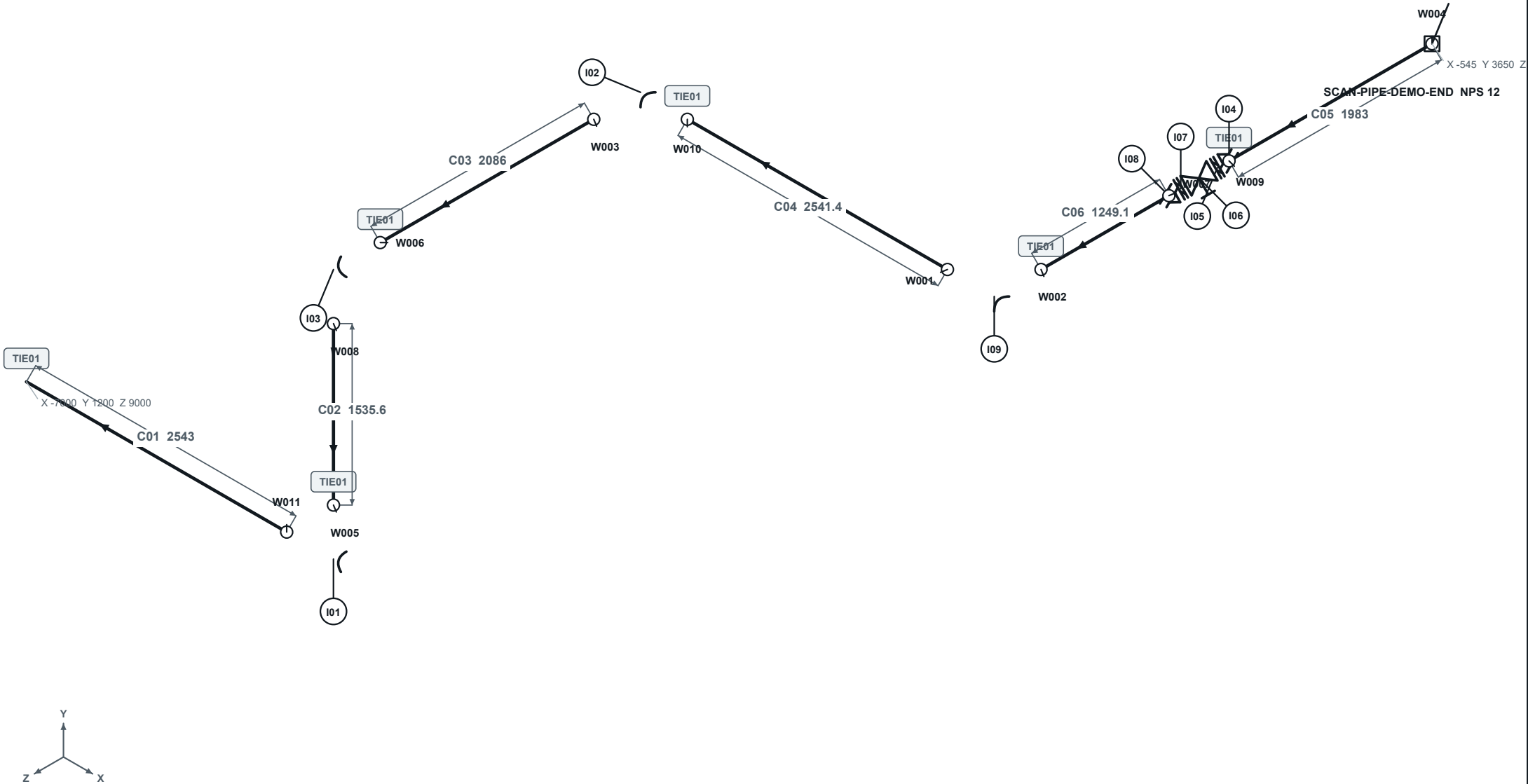


MATERIAL TAKE-OFF

MK	DESCRIPTION	QTY
M01	Elbow90LR 12 EL90LR-CS-S40-12	4
M02	FlangeWeldNeck 12 WNRF-CS-CL150-12	2
M03	Gasket 12 GSKT-CL150-12	2
M04	GateValve 12 VGT-CL150-12	1
M05	Pipe 12 PIPE-CS-S40-12	11.94m



ALL DIMENSIONS IN mm - DO NOT SCALE DRAWING

PROJECT
PLANTICA PROJECT

CLIENT

-

LOCATION

-

PLANTICA ENGINEERING

LINE NUMBER
DEMO-W-301-CS150

SERVICE

Existing scan pipe tie-in demonstration

SPEC / SIZE

CS150 / NPS 12

DESIGN

DP - barg DT - C INS 0 mm CLR 0 mm SLP -

DRAWING NUMBER
ISO-DEMO-301-TIE01-A

TITLE

FABRICATION ISOMETRIC / SPOOL TIE01

REV / STATUS

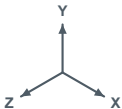
A / Draft

DRAWN / DATE / SHEET

PLANTICA / 2026-09-11 / 1 OF 5

MATERIAL TAKE-OFF

MK	DESCRIPTION	QTY
M01	BoltSet 12 BOLT-CL150-12	1



ALL DIMENSIONS IN mm - DO NOT SCALE DRAWING

PROJECT
PLANTICA PROJECT

CLIENT

-

LOCATION

-

PLANTICA ENGINEERING

LINE NUMBER
DEMO-W-301-CS150

SERVICE

Existing scan pipe tie-in demonstration

SPEC / SIZE

CS150 / NPS 12

DESIGN

DP - barg DT - C INS 0 mm CLR 0 mm SLP -

DRAWING NUMBER
ISO-DEMO-301-TIE02-A

TITLE

FABRICATION ISOMETRIC / SPOOL TIE02

REV / STATUS

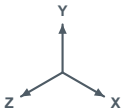
A / Draft

DRAWN / DATE / SHEET

PLANTICA / 2026-09-11 / 2 OF 5

MATERIAL TAKE-OFF

MK	DESCRIPTION	QTY
M01	BoltSet 12 BOLT-CL150-12	1



ALL DIMENSIONS IN mm - DO NOT SCALE DRAWING

PROJECT
PLANTICA PROJECT

CLIENT

-

LOCATION

-

PLANTICA ENGINEERING

LINE NUMBER
DEMO-W-301-CS150

SERVICE

Existing scan pipe tie-in demonstration

SPEC / SIZE

CS150 / NPS 12

DESIGN

DP - barg DT - C INS 0 mm CLR 0 mm SLP -

DRAWING NUMBER
ISO-DEMO-301-TIE03-A

TITLE

FABRICATION ISOMETRIC / SPOOL TIE03

REV / STATUS

A / Draft

DRAWN / DATE / SHEET

PLANTICA / 2026-09-11 / 3 OF 5

PIPING ISOMETRIC - FABRICATION SCHEDULES				LINE DEMO-W-301-CS150			SHEET 4/5	
FABRICATION SPOOL REGISTER								
SPOOL	DRAWING	REV	STATUS	PACKAGE	RELEASED UTC	COMPONENTS	BASIS	
TIE01	-	A	Draft	-	-	15	CONTROLLED	
TIE02	-	A	Draft	-	-	1	CONTROLLED	
TIE03	-	A	Draft	-	-	1	CONTROLLED	
MATERIAL TAKE-OFF								
LINE	TYPE	PART CODE	DESCRIPTION		SIZE	SPEC	QTY	WT kg
DEMO-W-301-CS150	BoltSet	BOLT-CL150-12	Stud bolt set, Class 150 RF, 12 x 0,875" x 4,75", NPS 12		12	CS150	2	-
DEMO-W-301-CS150	Elbow90LR	EL90LR-CS-S40-12	Elbow 90° LR, BW, A234 WPB, Sch 40, NPS 12		12	CS150	4	-
DEMO-W-301-CS150	FlangeWeldNeck	WNRF-CS-CL150-12	Flange WN RF, A105, Class 150, bore Sch 40, NPS 12		12	CS150	2	-
DEMO-W-301-CS150	Gasket	GSKT-CL150-12	Gasket flat ring, Class 150 RF, NPS 12		12	CS150	2	-
DEMO-W-301-CS150	GateValve	VGT-CL150-12	Gate valve, solid wedge, Class 150 flanged RF, NPS 12		12	CS150	1	-
DEMO-W-301-CS150	Pipe	PIPE-CS-S40-12	Pipe, ASTM A106 Gr B, Sch 40, NPS 12		12	CS150	11.938 m	951.583
PIPE CUT PIECES								
CUT	SPOOL	PART CODE	NPS	SCH	MATERIAL	CUT mm	START XYZ mm	END XYZ mm
C01	TIE01	PIPE-CS-S40-12	12	40	A106-B	2543	-4457 / 1200 / 9000	-7000 / 1200 / 9000
C02	TIE01	PIPE-CS-S40-12	12	40	A106-B	1535.6	-4000 / 3192.6 / 9000	-4000 / 1657 / 9000
C03	TIE01	PIPE-CS-S40-12	12	40	A106-B	2086	-4000 / 3649.6 / 6457	-4000 / 3649.6 / 8543
C04	TIE01	PIPE-CS-S40-12	12	40	A106-B	2541.4	-1001.6 / 3649.6 / 6000	-3543 / 3649.6 / 6000
C05	TIE01	PIPE-CS-S40-12	12	40	A106-B	1983	-544.6 / 3649.6 / 1723.1	-544.6 / 3649.6 / 3706.1
C06	TIE01	PIPE-CS-S40-12	12	40	A106-B	1249.1	-544.6 / 3649.6 / 4293.9	-544.6 / 3649.6 / 5543
ISO COMPONENT / SKEY REGISTER								
MARK	SPOOL	SKEY	FAMILY	PART CODE	NPS	CLASS	DESCRIPTION	
I01	TIE01	ELBW	Elbow90LR	EL90LR-CS-S40-12	12	-	Elbow 90° LR, BW, A234 WPB, Sch 40, NPS 12	
I02	TIE01	ELBW	Elbow90LR	EL90LR-CS-S40-12	12	-	Elbow 90° LR, BW, A234 WPB, Sch 40, NPS 12	
I03	TIE01	ELBW	Elbow90LR	EL90LR-CS-S40-12	12	-	Elbow 90° LR, BW, A234 WPB, Sch 40, NPS 12	
I04	TIE01	FLWN	FlangeWeldNeck	WNRF-CS-CL150-12	12	CL150	Flange WN RF, A105, Class 150, bore Sch 40, NPS 12	
I05	TIE01	GASK	Gasket	GSKT-CL150-12	12	CL150	Gasket flat ring, Class 150 RF, NPS 12	
I06	TIE01	VGFL	GateValve	VGT-CL150-12	12	CL150	Gate valve, solid wedge, Class 150 flanged RF, NPS 12	
I07	TIE01	GASK	Gasket	GSKT-CL150-12	12	CL150	Gasket flat ring, Class 150 RF, NPS 12	
I08	TIE01	FLWN	FlangeWeldNeck	WNRF-CS-CL150-12	12	CL150	Flange WN RF, A105, Class 150, bore Sch 40, NPS 12	
I09	TIE01	ELBW	Elbow90LR	EL90LR-CS-S40-12	12	-	Elbow 90° LR, BW, A234 WPB, Sch 40, NPS 12	
I10	TIE02	BOLT	BoltSet	BOLT-CL150-12	12	CL150	Stud bolt set, Class 150 RF, 12 x 0,875" x 4,75", NPS 12	
I11	TIE03	BOLT	BoltSet	BOLT-CL150-12	12	CL150	Stud bolt set, Class 150 RF, 12 x 0,875" x 4,75", NPS 12	
PROJECT / CLIENT PLANTICA PROJECT / -			LINE / SPEC / SIZE DEMO-W-301-CS150 / CS150 / NPS 12			DRAWING / REV / SHEET ISO-DEMO-301 / DEMO / 4 OF 5		
PIPING ISOMETRIC - FABRICATION SCHEDULE								

PIPING ISOMETRIC - FABRICATION SCHEDULES				LINE DEMO-W-301-CS150				SHEET 5/5	
WELD LIST									
WELD	SPOOL / ADJ	TYPE	CLASS	STATUS	NDE	PWHT	TEST PACK	SOURCE	
W001	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W002	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W003	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W004	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W005	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W006	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W007	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W008	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W009	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W010	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
W011	TIE01	Butt	SHOP	Planned	-	NO	-	REGISTERED	
EQUIPMENT NOZZLES									
MARK	TAG		NPS	CONNECTION		CLASS	XYZ mm		
N01	SCAN-PIPE-DEMO-END		12	ButtWeld		-	-544.6 / 3649.6 / 1723.1		
PROJECT / CLIENT PLANTICA PROJECT / -			LINE / SPEC / SIZE DEMO-W-301-CS150 / CS150 / NPS 12			DRAWING / REV / SHEET ISO-DEMO-301 / DEMO / 5 OF 5			
PIPING ISOMETRIC - FABRICATION SCHEDULE									