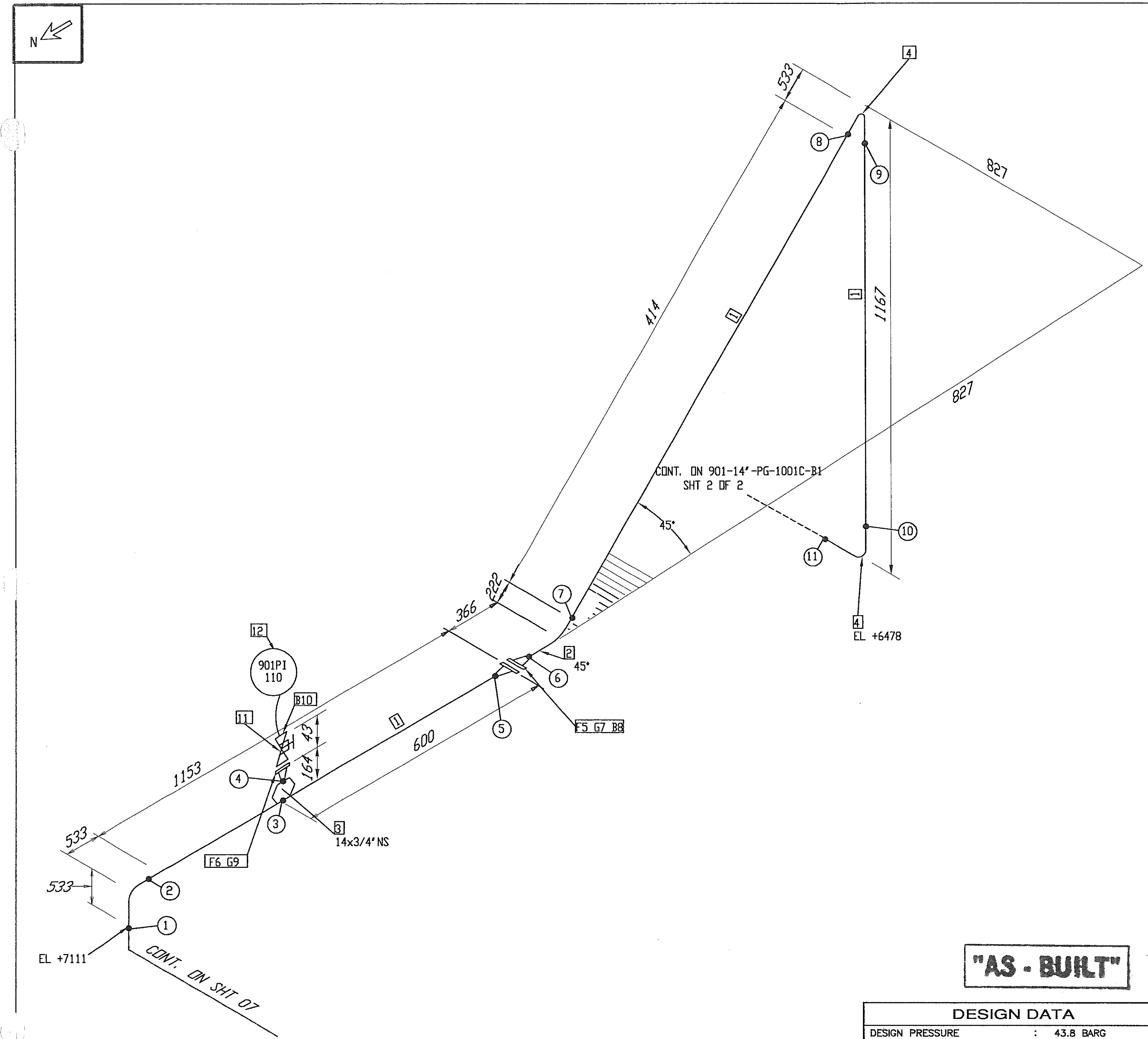


BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE XS A106 GR. B, NACE	14	B1	1.6M
2	45 DEG LR ELBOW SMLS BW XS A234 GR. WPB, NACE	14	B1	1
3	WELDOLET XS x SCH 160 A105, NACE	14 x 3/4	B1	1
4	90 DEG LR ELBOW SMLS BW XS A234 GR. WPB, NACE	14	B1	2
5	FLANGE 300LB WN RF SCH 160 A105, NACE	14	B1	2
6	FLANGE 300LB WN RF SCH 160 A105, NACE	3/4	B1	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
7	SPIRAL WOUND GASKET 300LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	14	B1	1
8	185 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	B1	20
9	SPIRAL WOUND GASKET 300LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	3/4	B1	1
10	123 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	B1	4
11	DB&B SLIM-LINE INSTRUMENT MONOFLANGE 300LB	3/4	B1	1
12	901PI 110	3/4		1

REV. NO	DESCRIPTION OF REVISION	BY	CHK'D	APP'D	DATE
XO	AS BUILT	AR	RAGU	SD	09.04.12
4	MODIFIED & ISSUED FOR CONSTRUCTION	RAGU	BS	SD	02.03.11
3	AS BUILT	FT	BS	SD	07.06.10
2	REDRAWN PER GSI'S COMMENTS	NN	CG	SD	14.05.08
1	REVISED PER P&ID CHANGES	NN	CG	SD	17.04.08
0	APPROVED FOR CONSTRUCTION	SHU	CG	SD	27.03.08

CLIENT : OOG TK FPSO

PROJECT: FPSO CIDADE DEITAJAÍ

JOB NO. 21-9791
QUANTITY: 1
CLASS: ABS
TKPJ DRAWING. NO. 7000-04-L-26-XN-05121

TITLE: PIPING ISOMETRIC

LINE NO
901-14"-PG-1001A-B1 (SHT.1/2)
901-14"-PG-1001B-B1 (SHT.1/2)

GSI DISCIPLINE SIGN		
PROCESS	AR	
MECHANICAL	VC	
PIPING	MH	
STRUCTURAL	WKH	
E & I	AK	
PROJECT	EG	

APPROVED BY: SD
CHECKED BY: BS
DRAWN BY: RAGU
SCALE: N.T.S
ACAD DWG: G375-5121-08_XO
JOB NO: G375
GSI DWG. NO: GSI-G375-5121
SHT 08
REV: XO

wasco Gas Services International (S) Pte Ltd

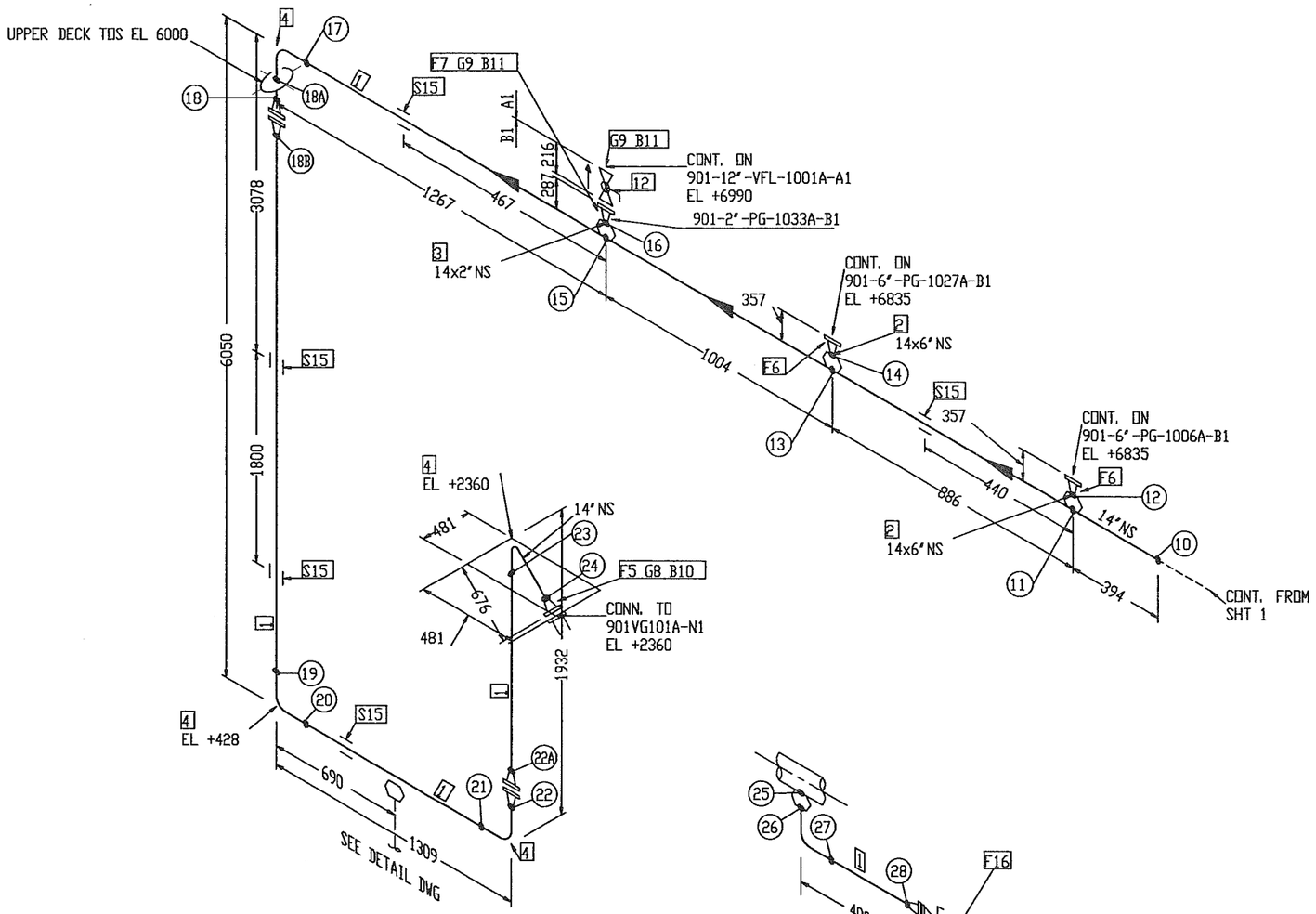
JSL JURONG SHIPYARD PTE LTD
(A subsidiary of SembCorp Marine Ltd)
SINGAPORE
ENGINEERING DEPARTMENT XXX SECTION

DESIGN DATA

DESIGN PRESSURE	:	43.8 BARG
OPERATING TEMPERATURE	:	49° C
HYDROSTATIC TEST PRESSURE	:	65.7 BARG
CORROSION ALLOWANCE	:	1/8"
RADIOGRAPHY	:	100%
INSULATION	:	NO
INSPECTION BY	:	GSI (QC)
PWHT	:	NO

NOTES:

1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
2. WELD NO. (1) TO (11)



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	N.S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE XS A106 GR. B, NACE	14	B1	9.2M
2	WELDOLET XS A105, NACE	14 x 6	B1	2
3	WELDOLET XS A105, NACE	14 x 2	B1	1
4	90 DEG LR ELBOW SMLS BW XS A234 GR. WPB, NACE	14	B1	4
5	FLANGE 300LB WN RF XS A105, NACE	14	B1	1
6	FLANGE 300LB WN RF SCH 80 A105, NACE	6	B1	2
7	FLANGE 300LB WN RF SCH 80 A105, NACE	2	B1	1
7A	FLANGE 300LB WN RF SCH 160 A105, NACE	1	B1	1
7B	BLIND FLANGE 300LB RF A105 NACE	1	B1	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N.S. (INS)	PIPE SPEC.	QTY
8	SPIRAL WOUND GASKET 300LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	14	B1	1
9	SPIRAL WOUND GASKET 300LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	2	B1	2
9A	SPRIAL WOUND GASKET 300LB 4.5MM THK SS316 WINGING/GRAPHITE FILLER W/3MM THK CS CENTERING RING, ZINC COATED	1	B1	2
10	185 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	B1	20
11	95 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	B1	16
11A	85 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	B1	8
12	BALL VALVE 300LB RF, BV-24 (CSC)	2	B1	1
12A	BALL VALVE 300LB RF	1	B1	1
13	WELDOLET SCH 160 A105, NACE	14 X 1	B1	1
14	90 DEG LR ELBOW SMLS BW SCH 160 A234 GR WPB	1	B1	1
	SUPPORTS			
15	STD TTI CLAMP	14	B1	5
16	FLANGE 300LB SW RF SCH 160 A105, NACE	1	B1	1

REV. NO	DESCRIPTION OF REVISION	BY	CHK'D	APP'D	DATE
X0	AS BUILT	AR	RAGU	SD	09.04.12
4	REVISED AS SHOWN	RAGU	LYC	SD	01.12.11
3	AS BUILT	FT	BS	SD	07.06.10
2	REVISED AS SHOWN	FT	BS	SD	20.08.08
1	REVISED PER P&ID CHANGES	NN	CG	SD	17.04.08
0	APPROVED FOR CONSTRUCTION	SHU	CG	SD	27.03.08

CLIENT :

OOG FPSO

PROJECT: FPSO CIDADE DEITAJAÍ

JOB NO. 21-9791

QUANTITY: 1

CLASS : ABS

TOPJ DRAWING NO. 7000-04-L-26-XN-05121

TITLE: PIPING ISOMETRIC

LINE NO
901-14"-PG-1001A-B1 sht 2/2
901-14"-PG-1001B-B1 sht 2/2

"AS - BUILT"

DESIGN DATA

1. DESIGN PRESSURE	: 43.8 BARG
2. OPERATING TEMPERATURE	: 49° C
3. HYDROSTATIC TEST PRESSURE	: 65.7 BARG
4. CORROSION ALLOWANCE	: 1/8"
5. RADIOGRAPHY	: 100%
6. INSULATION	: NO
7. INSPECTION BY	: GSI (QC)
8. PWHT	: NO

GSI DISCIPLINE SIGN		APPROVED BY	SD
PROCESS	AB	CHECKED BY	BS
MECHANICAL	VC	DRAWN BY	RAGU
PIPING	MH	SCALE	N.T.S
STRUCTURAL	WKH		
E & I	AK		
PROJECT	EG		

ACAD DWG : G375-5121-09_X0 | JOB NO: K375 | GSI DWG. NO: GSI-G375-5121 | SHT 09 | REV: X0

wasco Gas Services International (S) Pte Ltd

JSL JURONG SHIPYARD PTE LTD
(A subsidiary of SembCorp Marine Ltd)
SINGAPORE
ENGINEERING DEPARTMENT XXX SECTION

ISO 9001

NOTES:

1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
2. WELD NO. (10) TO (28)