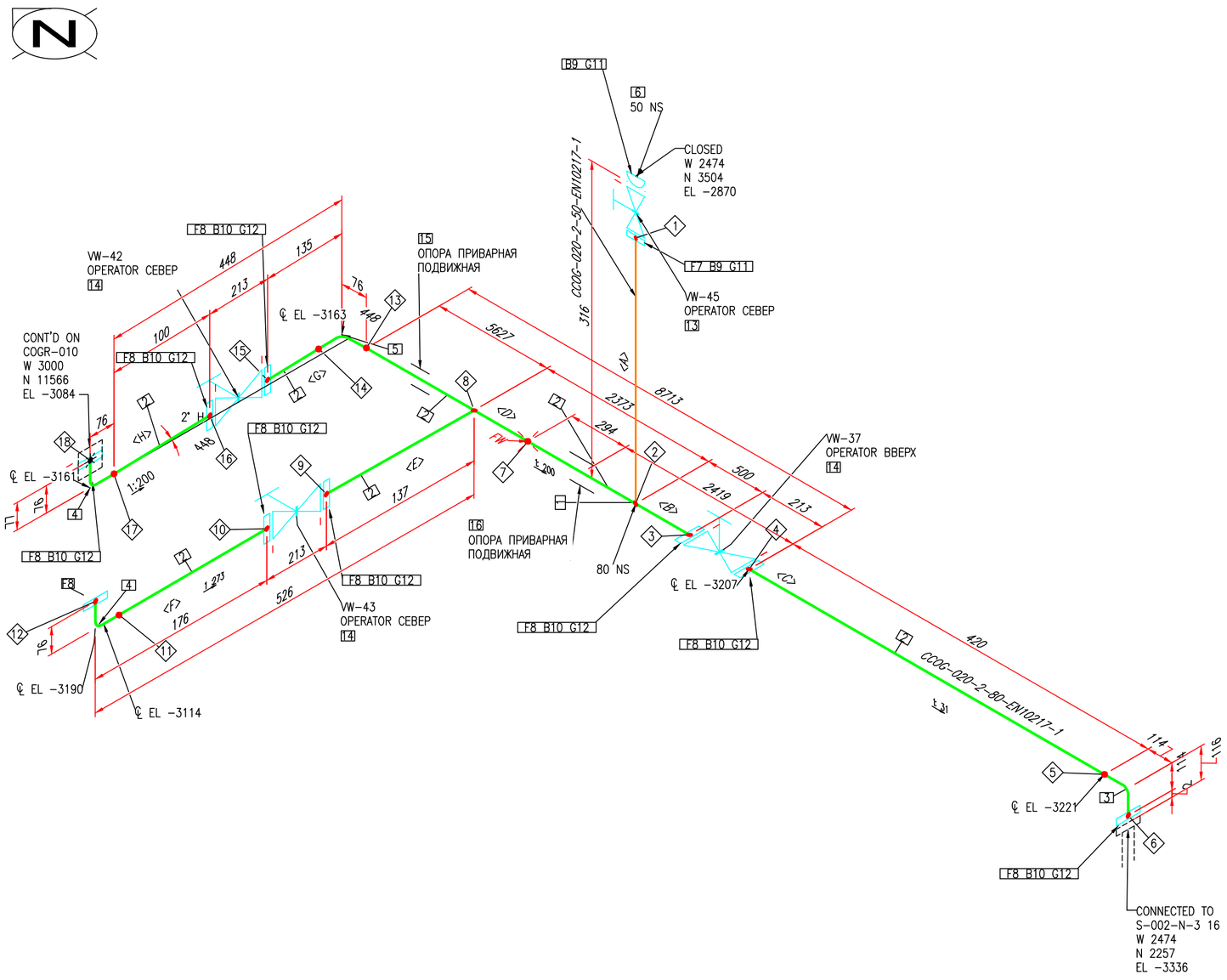


BILL OF MATERIALS

ID	QYT	STANDART	DESCRIPTION	MATERIAL	WEIGHT
PIPE					
1	0.1M	EN 10217-1	STEEL PIPE 60.3X4	EN 10027-1 P235TR1	0,56
2	9.3M	EN 10217-1	STEEL PIPE 88.9X5	EN 10027-1 P235TR1	97,56
FITTINGS					
3	1	DIN 2605-1	ELBOW 90-3-88.9X5.6	EN 10027-1 P235TR1	2,07
4	2	DIN 2605-1	ELBOW 90-2-88.9X5.6	EN 10027-1 P235TR1	2,98
5	1	DIN 2605-1	ELBOW 90-2-88.9X5.6	EN 10027-1 P235TR1	1,49
6	1	EN 1092-1	BLIND FLANGE TYPE 05 B-50-16	EN 10027-1 P235GH	2,88
FLANGES					
7	1	EN 1092-1	FLANGE F01/B1/DN50/PN16/P235GH	EN 10027-1 P235GH	2,73
8	9	EN 1092-1	FLANGE F01/B1/DN80/PN16/P235GH	EN 10027-1 P235GH	32,4
FASTENERS					
9	8	HEX BOLT ISO 4017; NUT ISO 4032	HEX BOLT M16X60 & NUT M16	HEX BOLT CARBON STEEL; NUT CARBON STEEL	0,26
10	64	HEX BOLT ISO 4017; NUT ISO 4032	HEX BOLT M16X70 & NUT M16	HEX BOLT CARBON STEEL; NUT CARBON STEEL	1,28
11	2	EN 1514-1	GASKET, TYPE IBC, DN 50, PN 16, 1.5 MM	W/3	0,05
12	8	EN 1514-1	GASKET, TYPE IBC, DN 80, PN 16, 1.5 MM	W/3	0,29
VALVES					
13	1		GATE WEDGE VALVE WITH RISING STEM, S33.22, DN 50		20
14	3		GATE WEDGE VALVE WITH RISING STEM, S33.22, DN 80		96
PIPE SUPPORTS					
15	1	HTDIL 9807	SUPPORT DN 50 H=100	S235JR	1,26
16	1	HTDIL 9807	SUPPORT DN 80 H=100	S235JR	1,2

CUT PIECE LIST

ID	LENGTH	ND	END1	END2
A	100MM	50	FLANGED	BEVEL
B	2500MM	80	BEVEL	FLANGED
C	420MM	80	BEVEL	SQUARE CUT
D	6000MM	80	BEVEL	BEVEL
E	93MM	80	BEVEL	FLANGED
F	100MM	80	SQUARE CUT	BEVEL
G	59MM	80	FLANGED	BEVEL
H	100MM	80	BEVEL	FLANGED

WELD LIST

ID	ND	TYPE	CATEGORY
11	80	BUTTWELD	FABRICATION-ITEM
10	80	WELD	FABRICATION-ITEM
9	80	WELD	FABRICATION-ITEM
8	80	TAPWELD	FABRICATION-ITEM
7	80	FIELDWELD	ERECTION-ITEM
6	80	WELD	FABRICATION-ITEM
5	80	BUTTWELD	FABRICATION-ITEM
4	80	WELD	FABRICATION-ITEM
3	80	WELD	FABRICATION-ITEM
2	80	TAPWELD	FABRICATION-ITEM
1	50	WELD	FABRICATION-ITEM

WELD LIST

ID	ND	TYPE	CATEGORY
18	80	WELD	FABRICATION-ITEM
17	80	BUTTWELD	FABRICATION-ITEM
16	80	WELD	FABRICATION-ITEM
15	80	WELD	FABRICATION-ITEM
14	80	BUTTWELD	FABRICATION-ITEM
13	80	BUTTWELD	FABRICATION-ITEM
12	80	WELD	FABRICATION-ITEM

APPROVED BY	
CHECKED BY	
QUALITY CONTROL	
DESIGNED BY	
DRAWN BY	Avakyan
SERVICE	CCOG
PIPE SPEC	
MAX PRESSURE	
MAX TEMPERATURE	
P&ID DWG	
INSULATION SPEC	
INSULATION THK	

PIPE LINE GROUP

PROJECT NAME: Gruppo ILVA. ILVA Taranto

TITLE: Reconstruction of Coce oven battery №10

DRAWING NUMBER: 1332498-TK 1332498-TK CCOG-020-2

LINE NO: 020 | AREA: | UNIT: | DATE: 08.17

JOB NUMBER: 1332498-TK | SCALE: N.T.S. | SHEET: 3 OF 8 | REV. 0

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