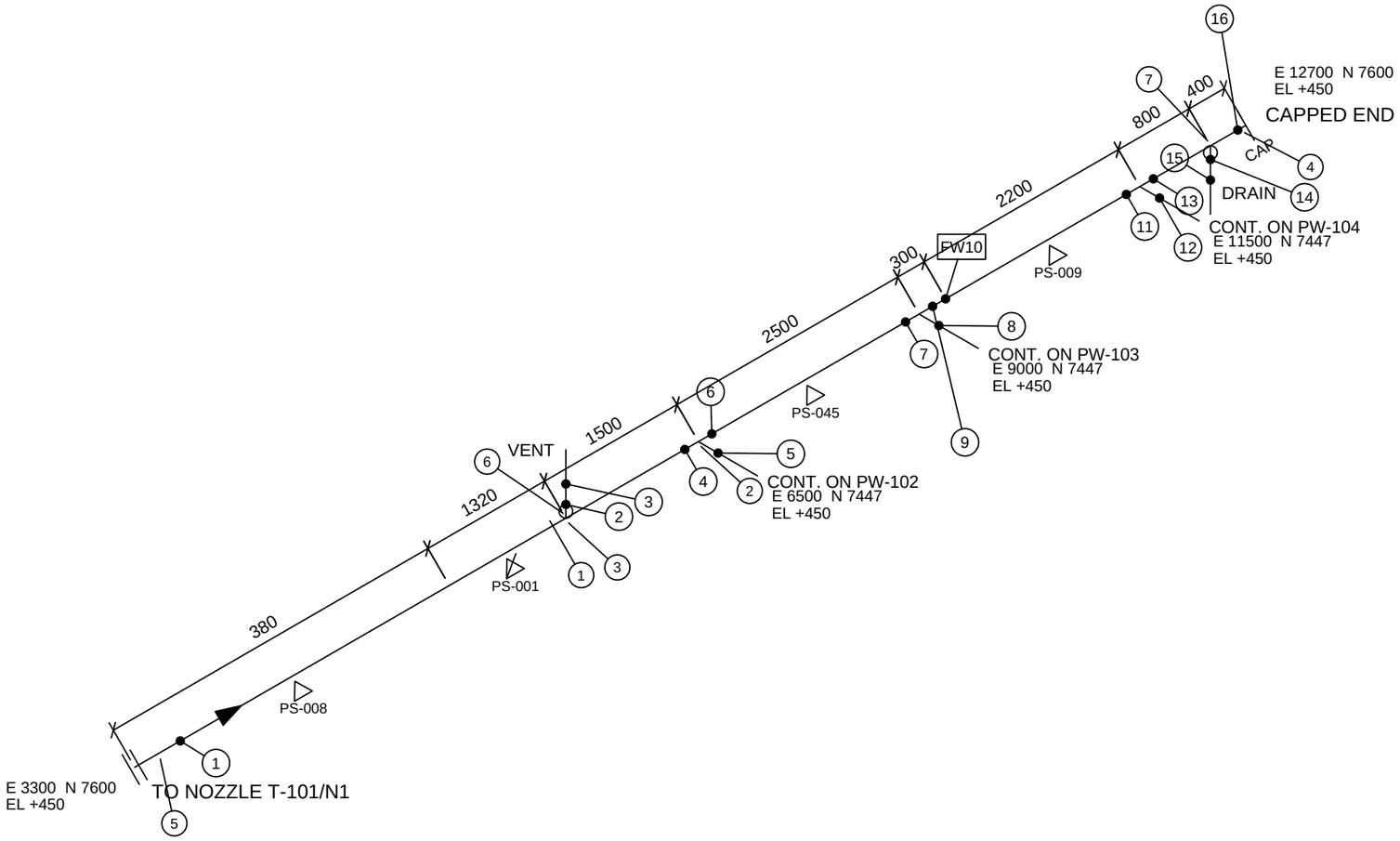


BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	8.34 m	Pipe, sch Medium, P265GH	DN150
2	3	Tee reducing, BW, sch Medium, P265GH	DN150xDN100
3	2	Branch outlet fitting (weld-on olet), P265GH	DN150xDN20
4	1	Cap, BW, sch Medium, P265GH	DN150
5	1	Flange weld neck, PN16, P265GH	DN150
6	1	Vent valve, ball, socket weld or threaded, with plug, PN16	DN20
7	1	Drain valve, ball, socket weld or threaded, with plug, PN16	DN20
8	1	Gasket, flat ring, PN16	DN150
9	1	Bolt set 8 x M20 x 115, stud bolts with nuts, PN16	DN150
10	3	Pipe shoe for DN150	DN150
11	1	Anchor for DN150	DN150

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN150	2992
S01	P2	DN150	2194
S01	P3	DN150	147
S02	P1	DN150	2047
S02	P2	DN150	956

WELDS

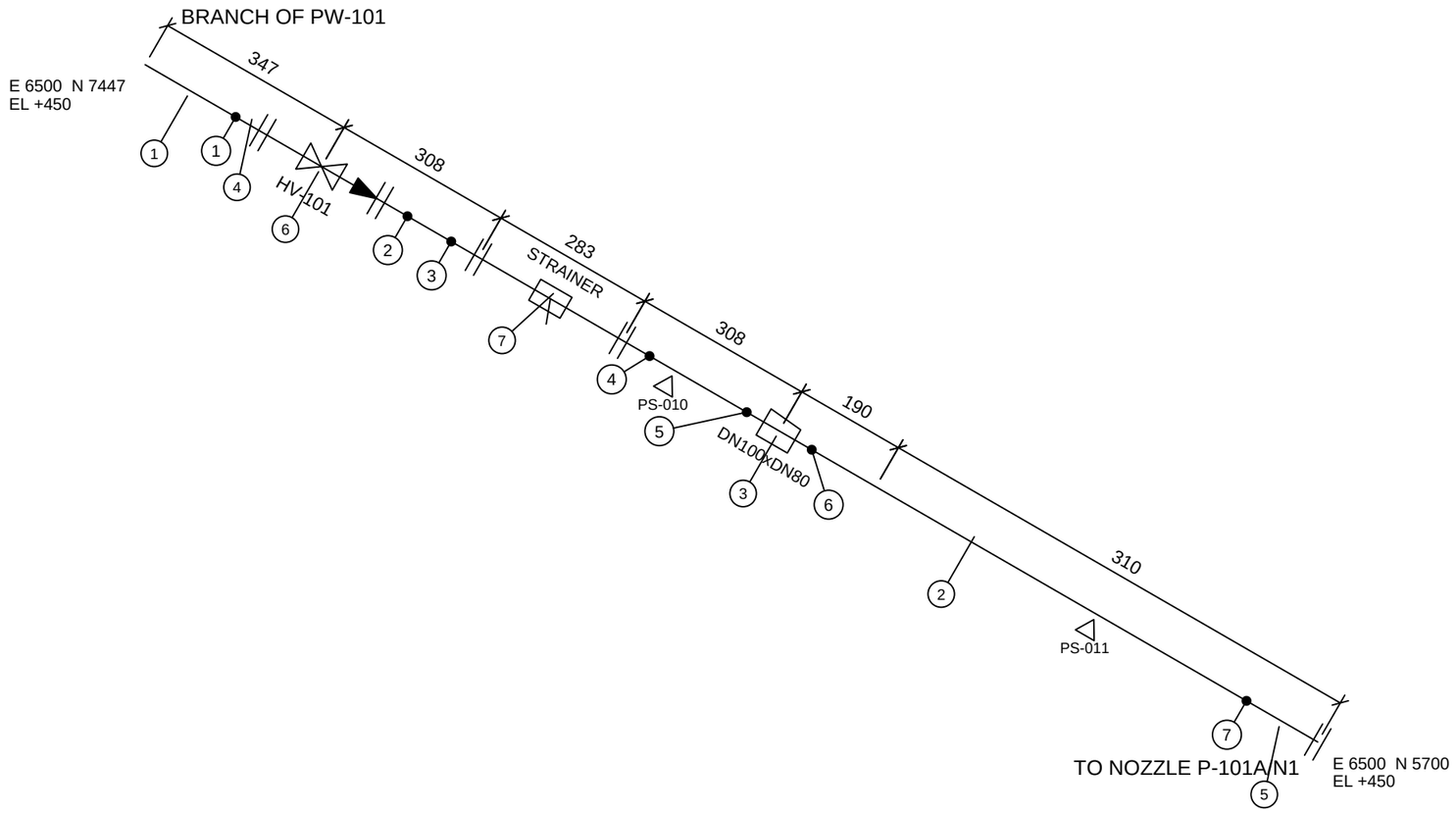
WELD	SIZE	TYPE	SPOOL
1	DN150	SHOP	S01
2	DN20	SHOP	S01
3	DN20	SHOP	S01
4	DN150	SHOP	S01
5	DN100	SHOP	S01
6	DN150	SHOP	S01
7	DN150	SHOP	S01
8	DN100	SHOP	S01
9	DN150	SHOP	S01
10	DN150	FIELD	S01
11	DN150	SHOP	S02
12	DN100	SHOP	S02
13	DN150	SHOP	S02
14	DN20	SHOP	S02
15	DN20	SHOP	S02
16	DN150	SHOP	S02

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 15 SHOP, 1 FIELD (FW).
INSULATION C 25 MM.
WELD INCHES 69.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 4 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-101
SPOOL	ALL (2 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN150 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.46 m	Pipe, sch Medium, P265GH	DN100
2	0.39 m	Pipe, sch Medium, P265GH	DN80
3	1	Reducer eccentric, BW, sch Medium, P265GH	DN100xDN80
4	4	Flange weld neck, PN16, P265GH	DN100
5	1	Flange weld neck, PN16, P265GH	DN80
6	1	Gate valve, flanged, PN16, handwheel operated	DN100
7	1	Y-strainer, flanged, PN16	DN100
8	4	Gasket, flat ring, PN16	DN100
9	1	Gasket, flat ring, PN16	DN80
10	4	Bolt set 8 x M16 x 100, stud bolts with nuts, PN16	DN100
11	1	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
12	1	Pipe shoe for DN100	DN100
13	1	Pipe shoe for DN80	DN80

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN100	178
S02	P1	DN100	86
S03	P1	DN100	191
S03	P2	DN80	386

WELDS

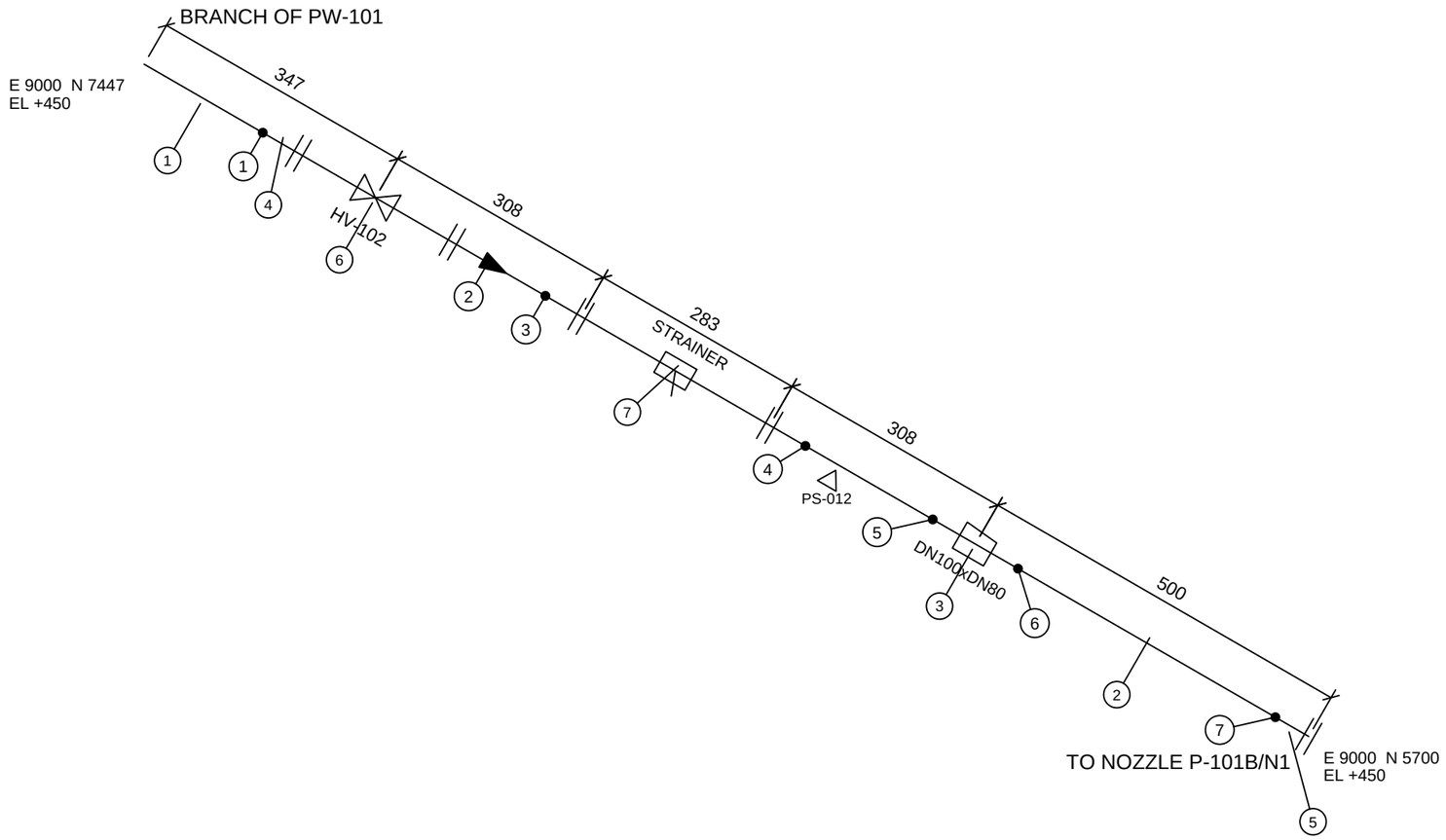
WELD	SIZE	TYPE	SPOOL
1	DN100	SHOP	S01
2	DN100	SHOP	S02
3	DN100	SHOP	S02
4	DN100	SHOP	S03
5	DN100	SHOP	S03
6	DN80	SHOP	S03
7	DN80	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 7 SHOP, 0 FIELD (FW).
INSULATION C 25 MM.
WELD INCHES 26.50, NDE 10% OF BUTT WELDS.
SUPPORTS: 2 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-102
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN100 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.46 m	Pipe, sch Medium, P265GH	DN100
2	0.39 m	Pipe, sch Medium, P265GH	DN80
3	1	Reducer eccentric, BW, sch Medium, P265GH	DN100xDN80
4	4	Flange weld neck, PN16, P265GH	DN100
5	1	Flange weld neck, PN16, P265GH	DN80
6	1	Gate valve, flanged, PN16, handwheel operated	DN100
7	1	Y-strainer, flanged, PN16	DN100
8	4	Gasket, flat ring, PN16	DN100
9	1	Gasket, flat ring, PN16	DN80
10	4	Bolt set 8 x M16 x 100, stud bolts with nuts, PN16	DN100
11	1	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
12	1	Pipe shoe for DN100	DN100

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN100	178
S02	P1	DN100	86
S03	P1	DN100	191
S03	P2	DN80	386

WELDS

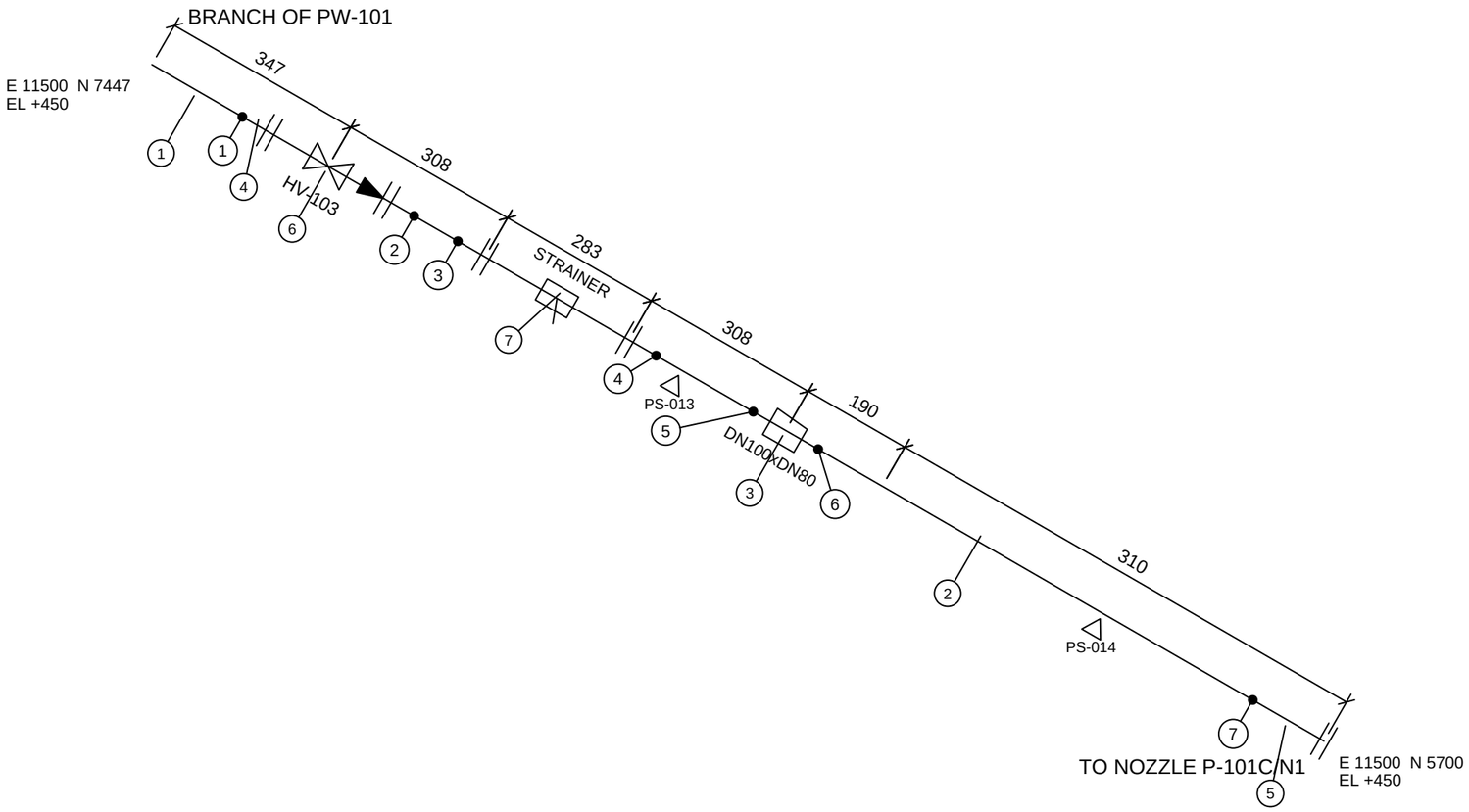
WELD	SIZE	TYPE	SPOOL
1	DN100	SHOP	S01
2	DN100	SHOP	S02
3	DN100	SHOP	S02
4	DN100	SHOP	S03
5	DN100	SHOP	S03
6	DN80	SHOP	S03
7	DN80	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 7 SHOP, 0 FIELD (FW).
INSULATION C 25 MM.
WELD INCHES 26.50, NDE 10% OF BUTT WELDS.
SUPPORTS: 1 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-103
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN100 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.46 m	Pipe, sch Medium, P265GH	DN100
2	0.39 m	Pipe, sch Medium, P265GH	DN80
3	1	Reducer eccentric, BW, sch Medium, P265GH	DN100xDN80
4	4	Flange weld neck, PN16, P265GH	DN100
5	1	Flange weld neck, PN16, P265GH	DN80
6	1	Gate valve, flanged, PN16, handwheel operated	DN100
7	1	Y-strainer, flanged, PN16	DN100
8	4	Gasket, flat ring, PN16	DN100
9	1	Gasket, flat ring, PN16	DN80
10	4	Bolt set 8 x M16 x 100, stud bolts with nuts, PN16	DN100
11	1	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
12	1	Pipe shoe for DN100	DN100
13	1	Pipe shoe for DN80	DN80

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN100	178
S02	P1	DN100	86
S03	P1	DN100	191
S03	P2	DN80	386

WELDS

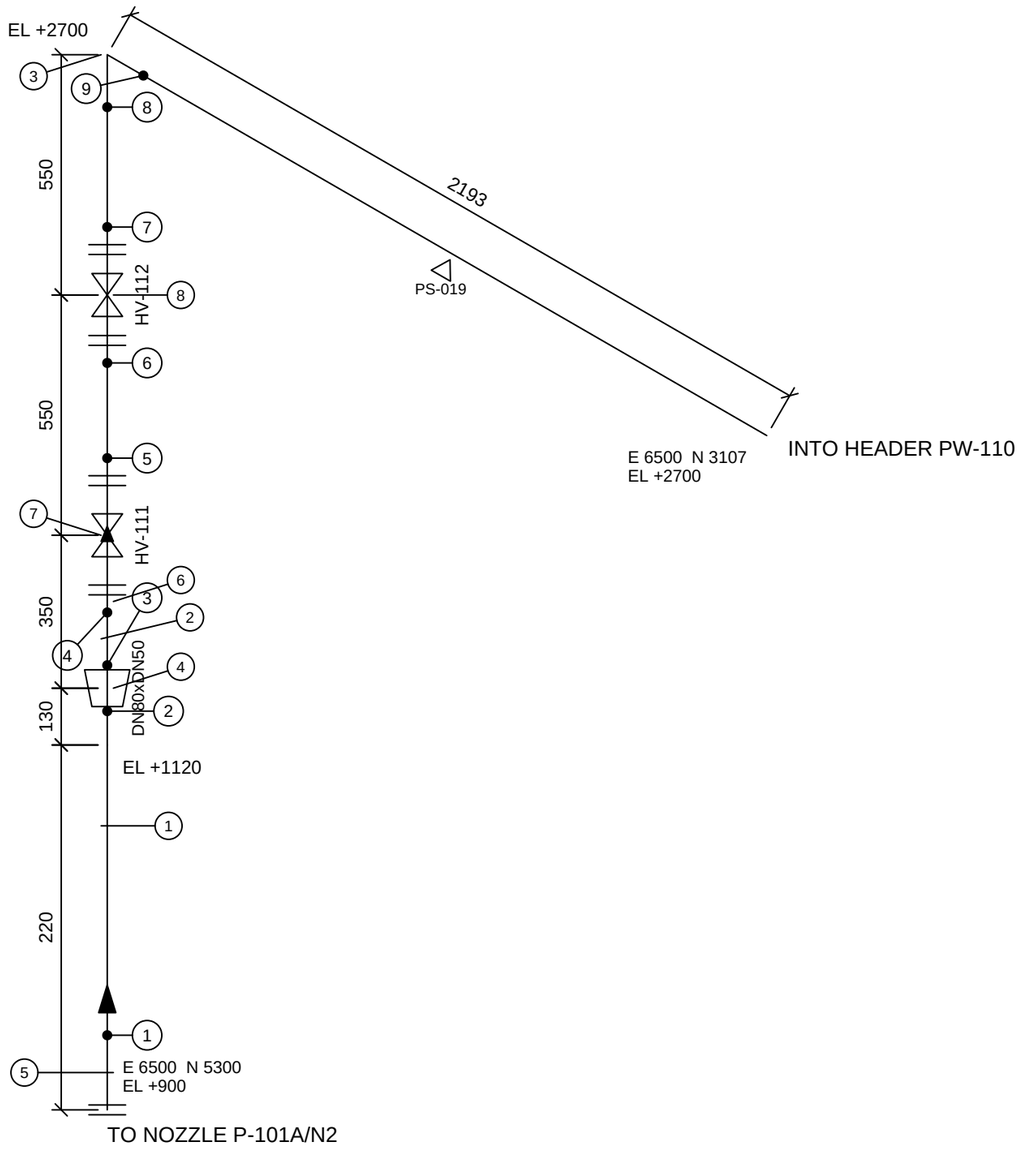
WELD	SIZE	TYPE	SPOOL
1	DN100	SHOP	S01
2	DN100	SHOP	S02
3	DN100	SHOP	S02
4	DN100	SHOP	S03
5	DN100	SHOP	S03
6	DN80	SHOP	S03
7	DN80	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 7 SHOP, 0 FIELD (FW).
INSULATION C 25 MM.
WELD INCHES 26.50, NDE 10% OF BUTT WELDS.
SUPPORTS: 2 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-104
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN100 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.25 m	Pipe, sch Medium, P265GH	DN50
2	2.69 m	Pipe, sch Medium, P265GH	DN80
3	1	Elbow 90 LR, BW, sch Medium, P265GH	DN80
4	1	Reducer concentric, BW, sch Medium, P265GH	DN80xDN50
5	1	Flange weld neck, PN16, P265GH	DN50
6	4	Flange weld neck, PN16, P265GH	DN80
7	1	Check valve, flanged, PN16	DN80
8	1	Gate valve, flanged, PN16, handwheel operated	DN80
9	1	Gasket, flat ring, PN16	DN50
10	4	Gasket, flat ring, PN16	DN80
11	1	Bolt set 4 x M16 x 90, stud bolts with nuts, PN16	DN50
12	4	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
13	1	Pipe shoe for DN80	DN80

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN50	252
S01	P2	DN80	121
S02	P1	DN80	218
S03	P1	DN80	274
S03	P2	DN80	2073

WELDS

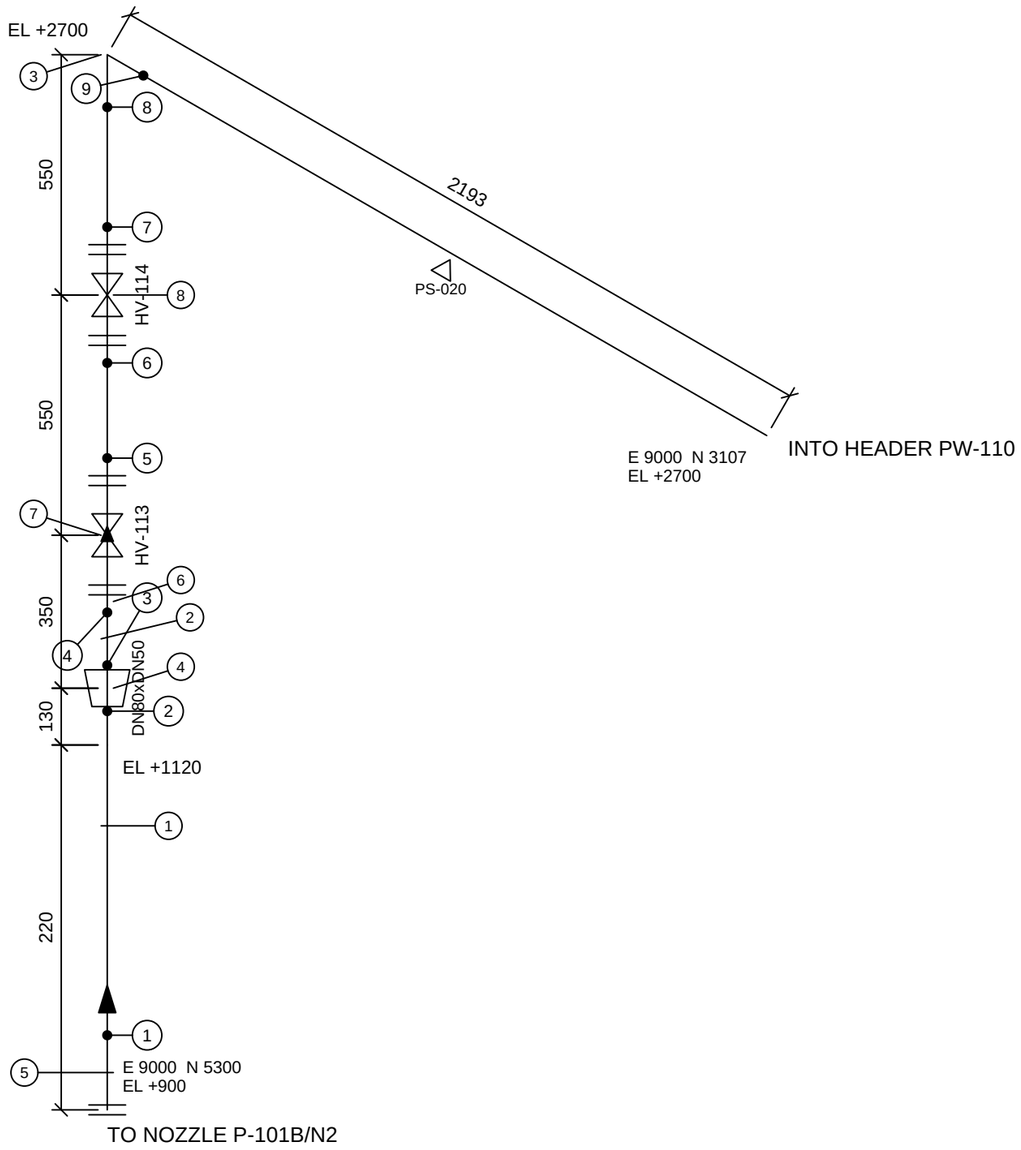
WELD	SIZE	TYPE	SPOOL
1	DN50	SHOP	S01
2	DN50	SHOP	S01
3	DN80	SHOP	S01
4	DN80	SHOP	S01
5	DN80	SHOP	S02
6	DN80	SHOP	S02
7	DN80	SHOP	S03
8	DN80	SHOP	S03
9	DN80	SHOP	S03

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 9 SHOP, 0 FIELD (FW).
WELD INCHES 26.75, NDE 10% OF BUTT WELDS.
SUPPORTS: 1 (TAGS ON THE SHEET).

N

PIPING ISOMETRIC

LINE	PW-105
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN50 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.25 m	Pipe, sch Medium, P265GH	DN50
2	2.69 m	Pipe, sch Medium, P265GH	DN80
3	1	Elbow 90 LR, BW, sch Medium, P265GH	DN80
4	1	Reducer concentric, BW, sch Medium, P265GH	DN80xDN50
5	1	Flange weld neck, PN16, P265GH	DN50
6	4	Flange weld neck, PN16, P265GH	DN80
7	1	Check valve, flanged, PN16	DN80
8	1	Gate valve, flanged, PN16, handwheel operated	DN80
9	1	Gasket, flat ring, PN16	DN50
10	4	Gasket, flat ring, PN16	DN80
11	1	Bolt set 4 x M16 x 90, stud bolts with nuts, PN16	DN50
12	4	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
13	1	Pipe shoe for DN80	DN80

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN50	252
S01	P2	DN80	121
S02	P1	DN80	218
S03	P1	DN80	274
S03	P2	DN80	2073

WELDS

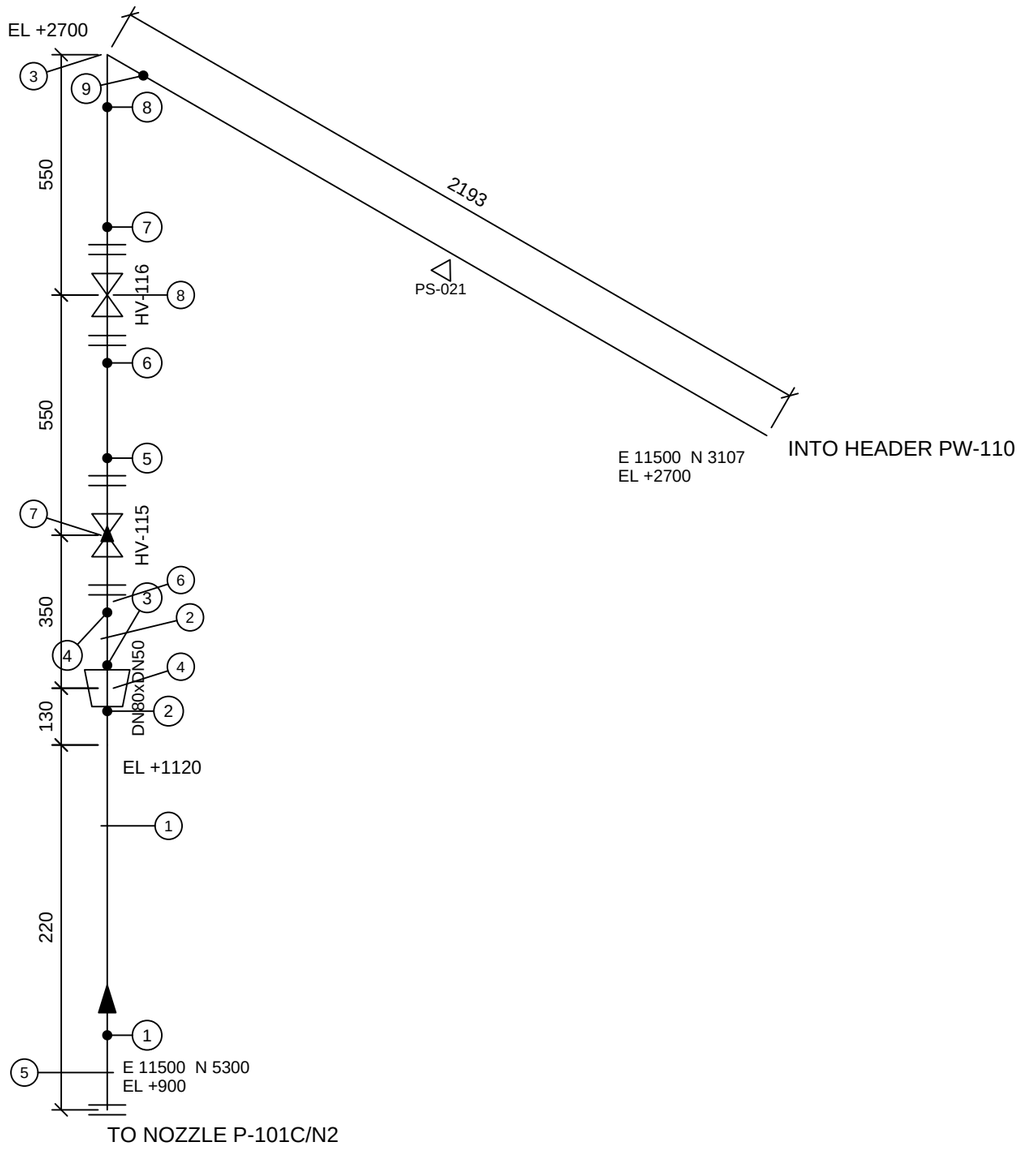
WELD	SIZE	TYPE	SPOOL
1	DN50	SHOP	S01
2	DN50	SHOP	S01
3	DN80	SHOP	S01
4	DN80	SHOP	S01
5	DN80	SHOP	S02
6	DN80	SHOP	S02
7	DN80	SHOP	S03
8	DN80	SHOP	S03
9	DN80	SHOP	S03

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 9 SHOP, 0 FIELD (FW).
WELD INCHES 26.75, NDE 10% OF BUTT WELDS.
SUPPORTS: 1 (TAGS ON THE SHEET).

N

PIPING ISOMETRIC

LINE	PW-106
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN50 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.25 m	Pipe, sch Medium, P265GH	DN50
2	2.69 m	Pipe, sch Medium, P265GH	DN80
3	1	Elbow 90 LR, BW, sch Medium, P265GH	DN80
4	1	Reducer concentric, BW, sch Medium, P265GH	DN80xDN50
5	1	Flange weld neck, PN16, P265GH	DN50
6	4	Flange weld neck, PN16, P265GH	DN80
7	1	Check valve, flanged, PN16	DN80
8	1	Gate valve, flanged, PN16, handwheel operated	DN80
9	1	Gasket, flat ring, PN16	DN50
10	4	Gasket, flat ring, PN16	DN80
11	1	Bolt set 4 x M16 x 90, stud bolts with nuts, PN16	DN50
12	4	Bolt set 8 x M16 x 95, stud bolts with nuts, PN16	DN80
13	1	Pipe shoe for DN80	DN80

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN50	252
S01	P2	DN80	121
S02	P1	DN80	218
S03	P1	DN80	274
S03	P2	DN80	2073

WELDS

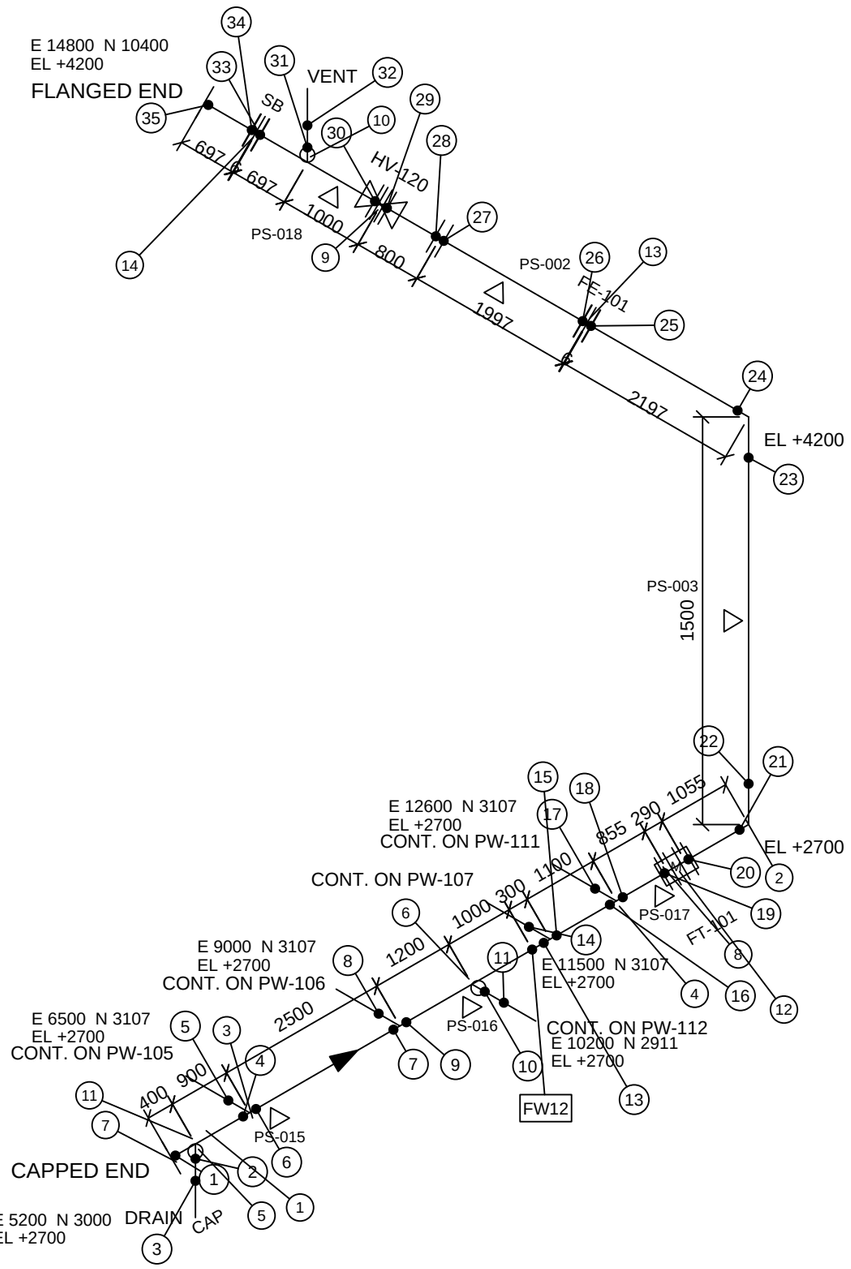
WELD	SIZE	TYPE	SPOOL
1	DN50	SHOP	S01
2	DN50	SHOP	S01
3	DN80	SHOP	S01
4	DN80	SHOP	S01
5	DN80	SHOP	S02
6	DN80	SHOP	S02
7	DN80	SHOP	S03
8	DN80	SHOP	S03
9	DN80	SHOP	S03

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 9 SHOP, 0 FIELD (FW).
WELD INCHES 26.75, NDE 10% OF BUTT WELDS.
SUPPORTS: 1 (TAGS ON THE SHEET).

N

PIPING ISOMETRIC

LINE	PW-107
SPOOL	ALL (3 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN50 / DN80 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 34 SHOP, 1 FIELD (FW).
WELD INCHES 115.75, NDE 10% OF BUTT WELDS.
SUPPORTS: 6 (TAGS ON THE SHEET).

N

BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	16.03 m	Pipe, sch Medium, P265GH	DN100
2	2	Elbow 90 LR, BW, sch Medium, P265GH	DN100
3	3	Tee reducing, BW, sch Medium, P265GH	DN100xDN80
4	1	Tee reducing, BW, sch Medium, P265GH	DN100xDN50
5	2	Branch outlet fitting (weld-on olet), P265GH	DN100xDN20
6	1	Branch outlet fitting (weld-on olet), P265GH	DN100xDN15
7	1	Cap, BW, sch Medium, P265GH	DN100
8	11	Flange weld neck, PN16, P265GH	DN100
9	1	Butterfly valve, flanged, PN16, gear operated	DN100
10	1	Vent valve, ball, socket weld or threaded, with plug, PN16	DN20
11	1	Drain valve, ball, socket weld or threaded, with plug, PN16	DN20
12	1	Inline meter, flanged, PN16	DN100
13	1	Orifice plate, PN16, P265GH	DN100
14	1	Spectacle blind, PN16, P265GH	DN100
15	9	Gasket, flat ring, PN16	DN100
16	5	Bolt set 8 x M16 x 100, stud bolts with nuts, PN16	DN100
17	2	Bolt set 8 x M16 x 105, stud bolts with nuts, PN16	DN100
18	5	Pipe shoe for DN100	DN100
19	1	Guide for DN100	DN100

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN100	1126
S01	P2	DN100	2286
S01	P3	DN100	2093
S02	P1	DN100	193
S02	P2	DN100	886
S02	P3	DN100	694
S03	P1	DN100	851

CUT LIST (CONT.)

SPOOL	PIECE	SIZE	LENGTH
S03	P2	DN100	1200
S03	P3	DN100	1994
S04	P1	DN100	1890
S05	P1	DN100	665
S06	P1	DN100	1562
S07	P1	DN100	592

WELDS

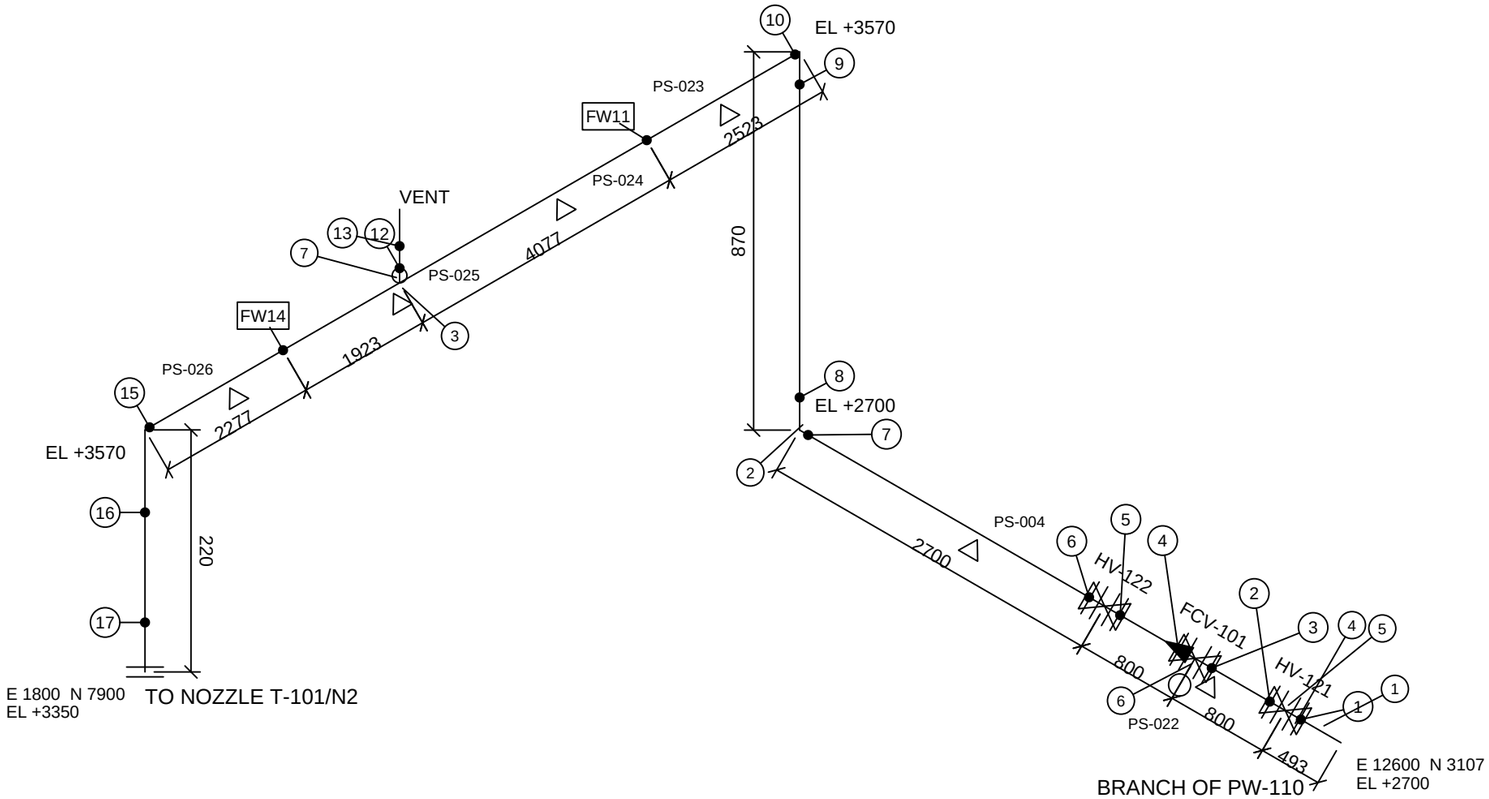
WELD	SIZE	TYPE	SPOOL
1	DN100	SHOP	S01
2	DN20	SHOP	S01
3	DN20	SHOP	S01
4	DN100	SHOP	S01
5	DN80	SHOP	S01
6	DN100	SHOP	S01
7	DN100	SHOP	S01
8	DN80	SHOP	S01
9	DN100	SHOP	S01
10	DN15	SHOP	S01
11	DN15	SHOP	S01
12	DN100	FIELD	S01
13	DN100	SHOP	S02
14	DN80	SHOP	S02
15	DN100	SHOP	S02
16	DN100	SHOP	S02
17	DN50	SHOP	S02
18	DN100	SHOP	S02

WELDS (CONT.)

WELD	SIZE	TYPE	SPOOL
19	DN100	SHOP	S02
20	DN100	SHOP	S03
21	DN100	SHOP	S03
22	DN100	SHOP	S03
23	DN100	SHOP	S03
24	DN100	SHOP	S03
25	DN100	SHOP	S03
26	DN100	SHOP	S04
27	DN100	SHOP	S04
28	DN100	SHOP	S05
29	DN100	SHOP	S05
30	DN100	SHOP	S06
31	DN20	SHOP	S06
32	DN20	SHOP	S06
33	DN100	SHOP	S06
34	DN100	SHOP	S07
35	DN100	SHOP	S07

PIPING ISOMETRIC

LINE	PW-110
SPOOL	ALL (7 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	15.34 m	Pipe, sch Medium, P265GH	DN50
2	3	Elbow 90 LR, BW, sch Medium, P265GH	DN50
3	1	Branch outlet fitting (weld-on olet), P265GH	DN50xDN20
4	7	Flange weld neck, PN16, P265GH	DN50
5	2	Gate valve, flanged, PN16, handwheel operated	DN50
6	1	Control valve, flanged, PN16, actuator operated	DN50
7	1	Vent valve, ball, socket weld or threaded, with plug, PN16	DN20
8	7	Gasket, flat ring, PN16	DN50
9	7	Bolt set 4 x M16 x 90, stud bolts with nuts, PN16	DN50
10	5	Pipe shoe for DN50	DN50
11	1	Hanger for DN50	DN50

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN50	355
S02	P1	DN50	514
S03	P1	DN50	514
S04	P1	DN50	2487
S04	P2	DN50	720
S04	P3	DN50	2448
S05	P1	DN50	6000
S06	P1	DN50	2202
S06	P2	DN50	100

WELDS

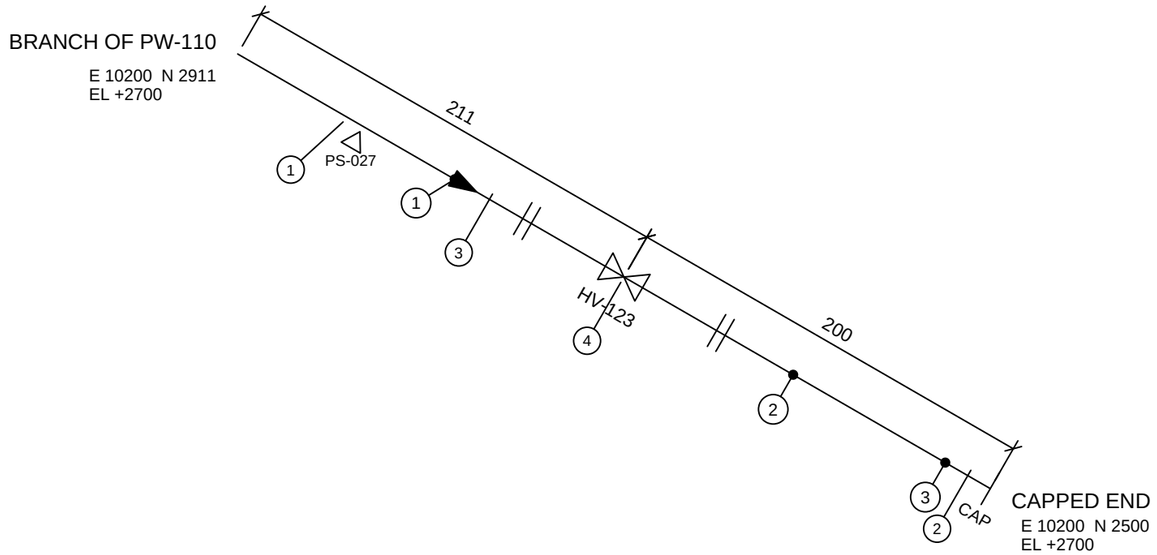
WELD	SIZE	TYPE	SPOOL
1	DN50	SHOP	S01
2	DN50	SHOP	S02
3	DN50	SHOP	S02
4	DN50	SHOP	S03
5	DN50	SHOP	S03
6	DN50	SHOP	S04
7	DN50	SHOP	S04
8	DN50	SHOP	S04
9	DN50	SHOP	S04
10	DN50	SHOP	S04
11	DN50	FIELD	S04
12	DN20	SHOP	S05
13	DN20	SHOP	S05
14	DN50	FIELD	S05
15	DN50	SHOP	S06
16	DN50	SHOP	S06
17	DN50	SHOP	S06

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 15 SHOP, 2 FIELD (FW).
WELD INCHES 31.50, NDE 10% OF BUTT WELDS.
SUPPORTS: 6 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-111
SPOOL	ALL (6 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.20 m	Pipe, sch Medium, P265GH	DN15
2	1	Cap, BW, sch Medium, P265GH	DN15
3	2	Flange weld neck, PN16, P265GH	DN15
4	1	Needle valve, flanged, PN16	DN15
5	2	Gasket, flat ring, PN16	DN15
6	2	Bolt set 4 x M16 x 80, stud bolts with nuts, PN16	DN15
7	1	Pipe shoe for DN15	DN15

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	DN15	118
S02	P1	DN15	83

WELDS

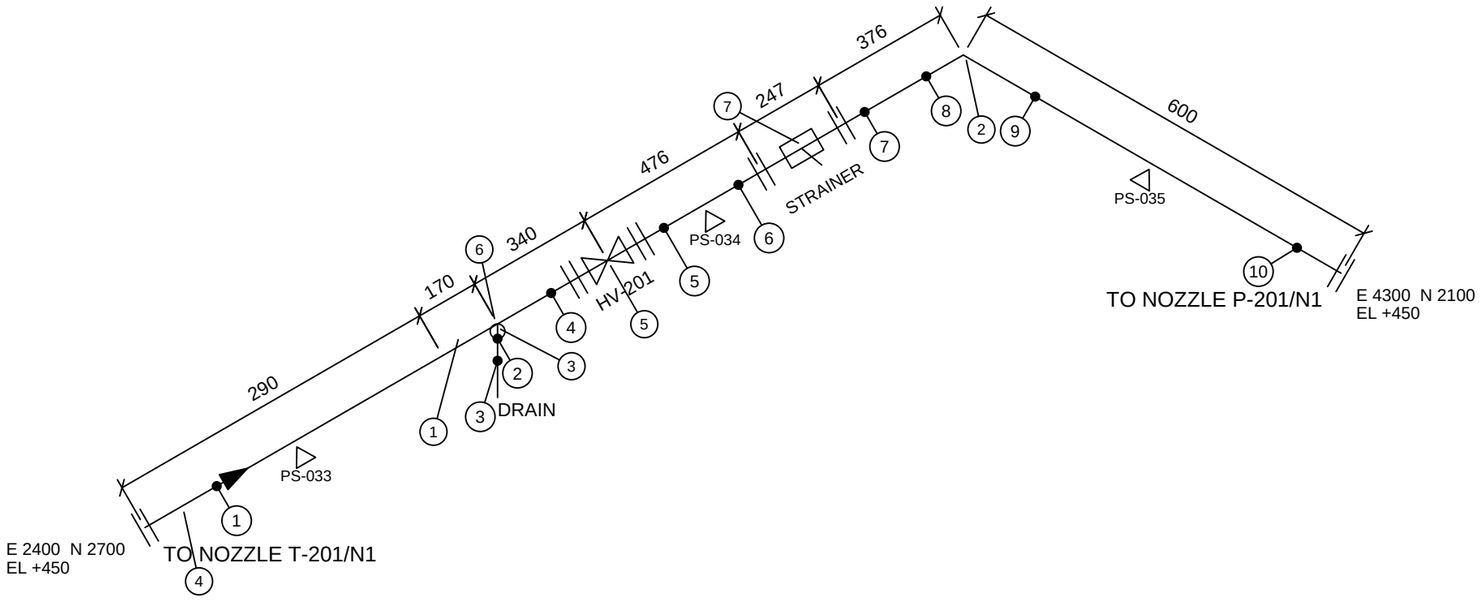
WELD	SIZE	TYPE	SPOOL
1	DN15	SHOP	S01
2	DN15	SHOP	S02
3	DN15	SHOP	S02

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 3 SHOP, 0 FIELD (FW).
WELD INCHES 1.50, NDE 10% OF BUTT WELDS.
SUPPORTS: 1 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	PW-112
SPOOL	ALL (2 SPOOLS)
CLASS	FB-E1 PN16
SIZE	DN15 P265GH
SERVICE	PW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	1.39 m	Pipe, sch STD, A106B	3
2	1	Elbow 90 LR, BW, sch STD, A106B	3
3	1	Branch outlet fitting (weld-on olet), A106B	3x1
4	6	Flange weld neck, Class 150, A106B	3
5	1	Gate valve, flanged, Class 150, handwheel operated	3
6	1	Drain valve, ball, socket weld or threaded, with plug, Class 150	1
7	1	Y-strainer, flanged, Class 150	3
8	6	Gasket, flat ring, Class 150	3
9	6	Bolt set 8 x M16 x 95, stud bolts with nuts, Class 150	3
10	3	Pipe shoe for 3	3

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	3	556
S02	P1	3	230
S03	P1	3	191
S03	P2	3	416

WELDS

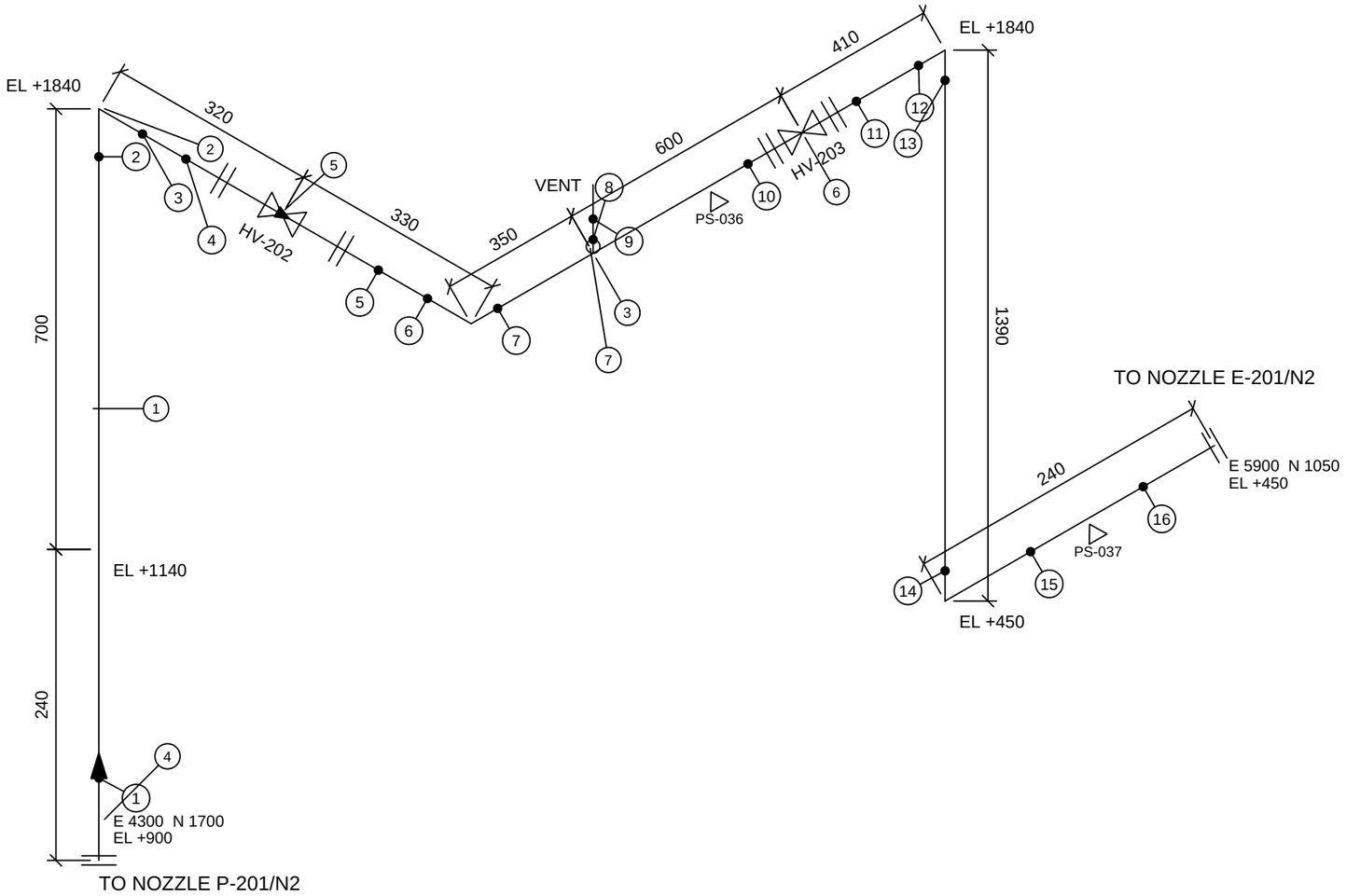
WELD	SIZE	TYPE	SPOOL
1	3	SHOP	S01
2	1	SHOP	S01
3	1	SHOP	S01
4	3	SHOP	S01
5	3	SHOP	S02
6	3	SHOP	S02
7	3	SHOP	S03
8	3	SHOP	S03
9	3	SHOP	S03
10	3	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 10 SHOP, 0 FIELD (FW).
INSULATION H 50 MM.
WELD INCHES 26.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 3 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	HW-201
SPOOL	ALL (3 SPOOLS)
CLASS	FB-A1L Class 150
SIZE	3 A106B
SERVICE	HW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	3.20 m	Pipe, sch STD, A106B	2
2	4	Elbow 90 LR, BW, sch STD, A106B	2
3	1	Branch outlet fitting (weld-on olet), A106B	2x1
4	6	Flange weld neck, Class 150, A106B	2
5	1	Check valve, flanged, Class 150	2
6	1	Gate valve, flanged, Class 150, handwheel operated	2
7	1	Vent valve, ball, socket weld or threaded, with plug, Class 150	1
8	6	Gasket, flat ring, Class 150	2
9	6	Bolt set 4 x M16 x 85, stud bolts with nuts, Class 150	2
10	2	Pipe shoe for 2	2

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	2	800
S01	P2	2	76
S02	P1	2	86
S02	P2	2	718
S03	P1	2	178
S03	P2	2	1238
S03	P3	2	100

WELDS

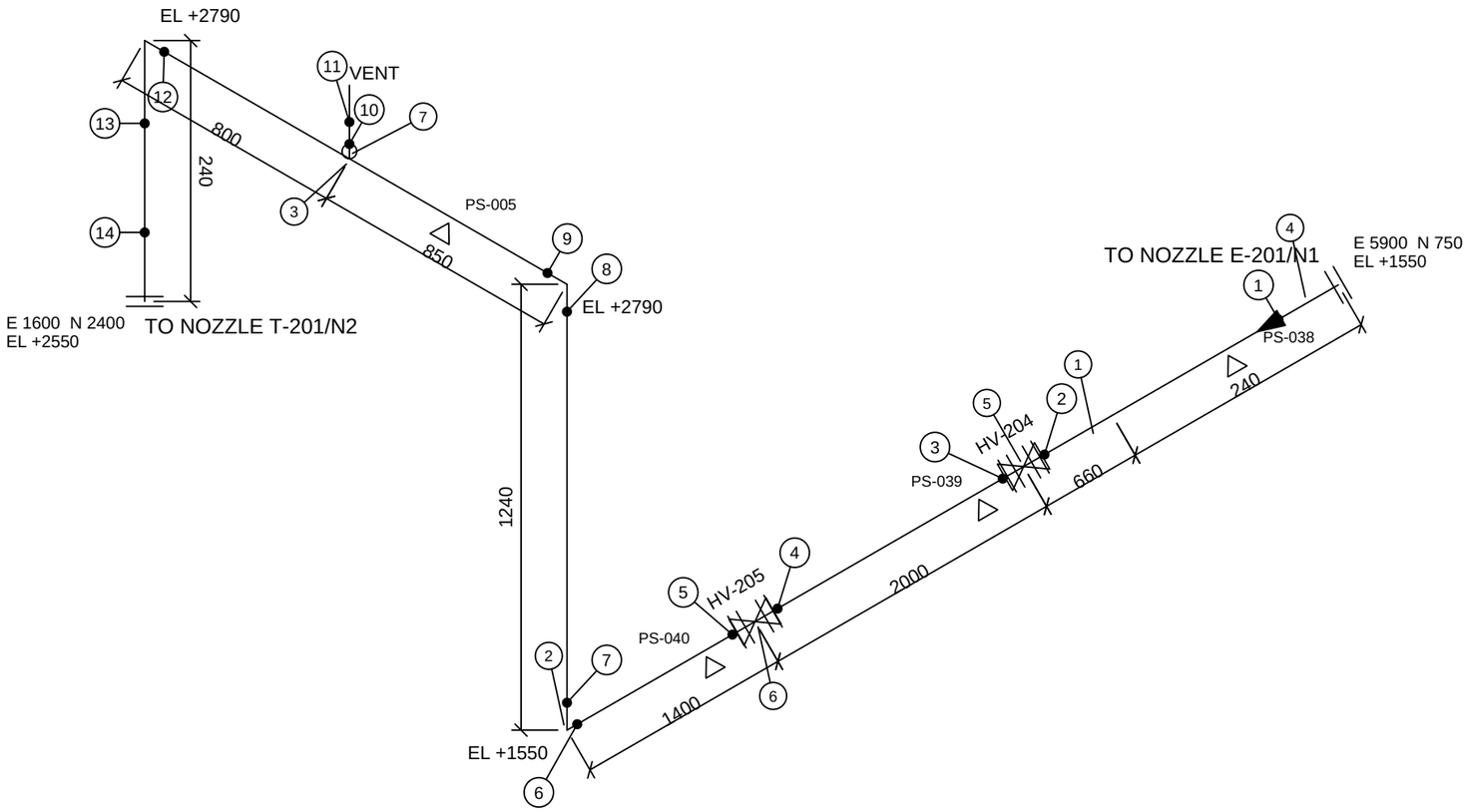
WELD	SIZE	TYPE	SPOOL
1	2	SHOP	S01
2	2	SHOP	S01
3	2	SHOP	S01
4	2	SHOP	S01
5	2	SHOP	S02
6	2	SHOP	S02
7	2	SHOP	S02
8	1	SHOP	S02
9	1	SHOP	S02
10	2	SHOP	S02
11	2	SHOP	S03
12	2	SHOP	S03
13	2	SHOP	S03
14	2	SHOP	S03
15	2	SHOP	S03
16	2	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 16 SHOP, 0 FIELD (FW).
INSULATION H 50 MM.
WELD INCHES 30.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 2 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	HW-202
SPOOL	ALL (3 SPOOLS)
CLASS	FB-A1L Class 150
SIZE	2 A106B
SERVICE	HW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	6.20 m	Pipe, sch STD, A106B	2
2	3	Elbow 90 LR, BW, sch STD, A106B	2
3	1	Branch outlet fitting (weld-on olet), A106B	2x1
4	6	Flange weld neck, Class 150, A106B	2
5	1	Gate valve, flanged, Class 150, handwheel operated	2
6	1	Globe valve, flanged, Class 150, handwheel operated	2
7	1	Vent valve, ball, socket weld or threaded, with plug, Class 150	1
8	6	Gasket, flat ring, Class 150	2
9	6	Bolt set 4 x M16 x 85, stud bolts with nuts, Class 150	2
10	3	Pipe shoe for 2	2
11	1	Spring hanger for 2	2

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	2	681
S02	P1	2	1676
S03	P1	2	1156
S03	P2	2	1088
S03	P3	2	1498
S03	P4	2	100

WELDS

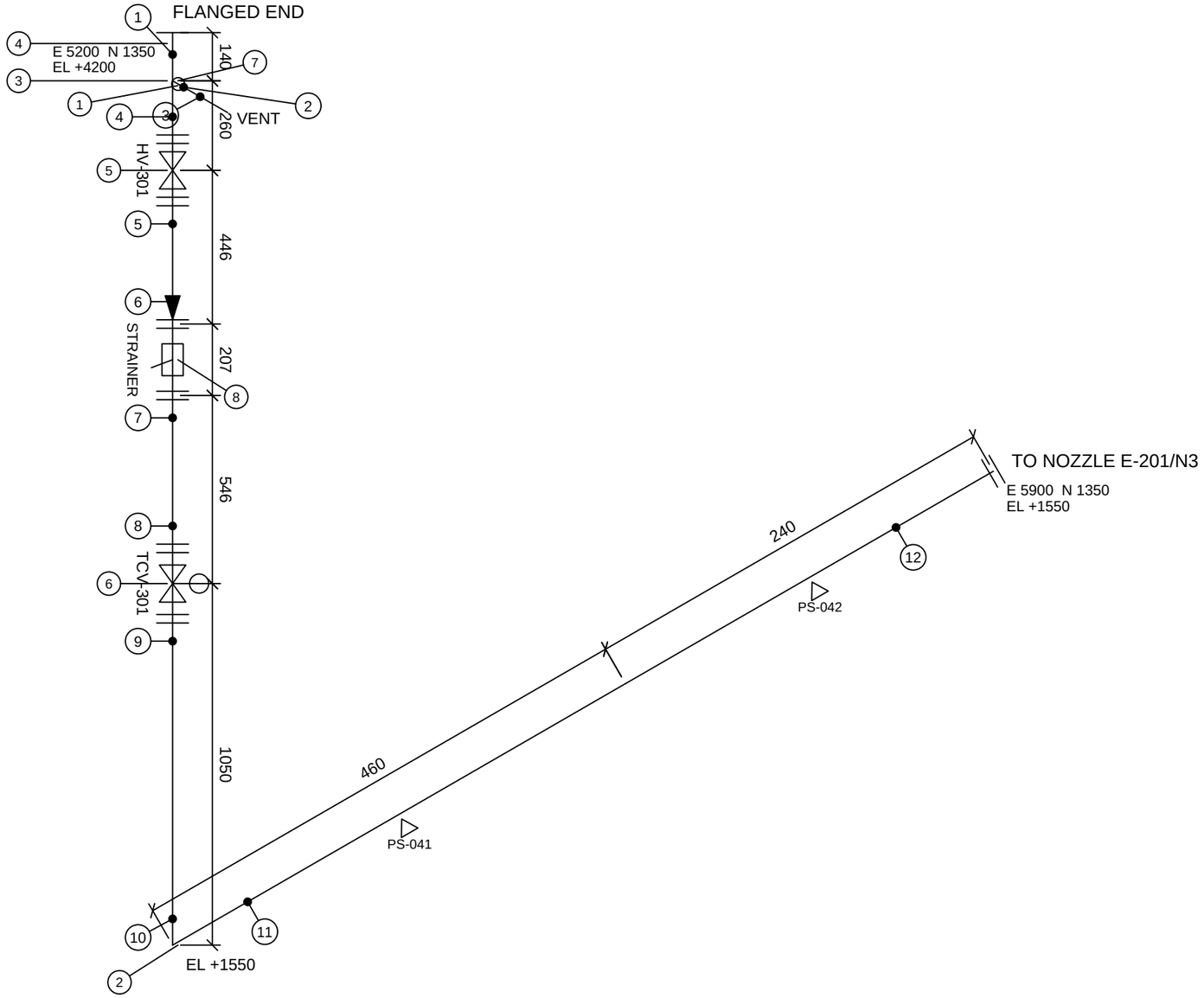
WELD	SIZE	TYPE	SPOOL
1	2	SHOP	S01
2	2	SHOP	S01
3	2	SHOP	S02
4	2	SHOP	S02
5	2	SHOP	S03
6	2	SHOP	S03
7	2	SHOP	S03
8	2	SHOP	S03
9	2	SHOP	S03
10	1	SHOP	S03
11	1	SHOP	S03
12	2	SHOP	S03
13	2	SHOP	S03
14	2	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 14 SHOP, 0 FIELD (FW).
INSULATION H 50 MM.
WELD INCHES 26.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 4 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	HW-203
SPOOL	ALL (3 SPOOLS)
CLASS	FB-A1L Class 150
SIZE	2 A106B
SERVICE	HW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	2.09 m	Pipe, sch STD, A106B	2
2	1	Elbow 90 LR, BW, sch STD, A106B	2
3	1	Branch outlet fitting (weld-on olet), A106B	2x1
4	8	Flange weld neck, Class 150, A106B	2
5	1	Gate valve, flanged, Class 150, handwheel operated	2
6	1	Control valve, flanged, Class 150, actuator operated	2
7	1	Vent valve, ball, socket weld or threaded, with plug, Class 150	1
8	1	Y-strainer, flanged, Class 150	2
9	7	Gasket, flat ring, Class 150	2
10	7	Bolt set 4 x M16 x 85, stud bolts with nuts, Class 150	2
11	2	Pipe shoe for 2	2

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	2	181
S02	P1	2	226
S03	P1	2	314
S04	P1	2	807
S04	P2	2	560

WELDS

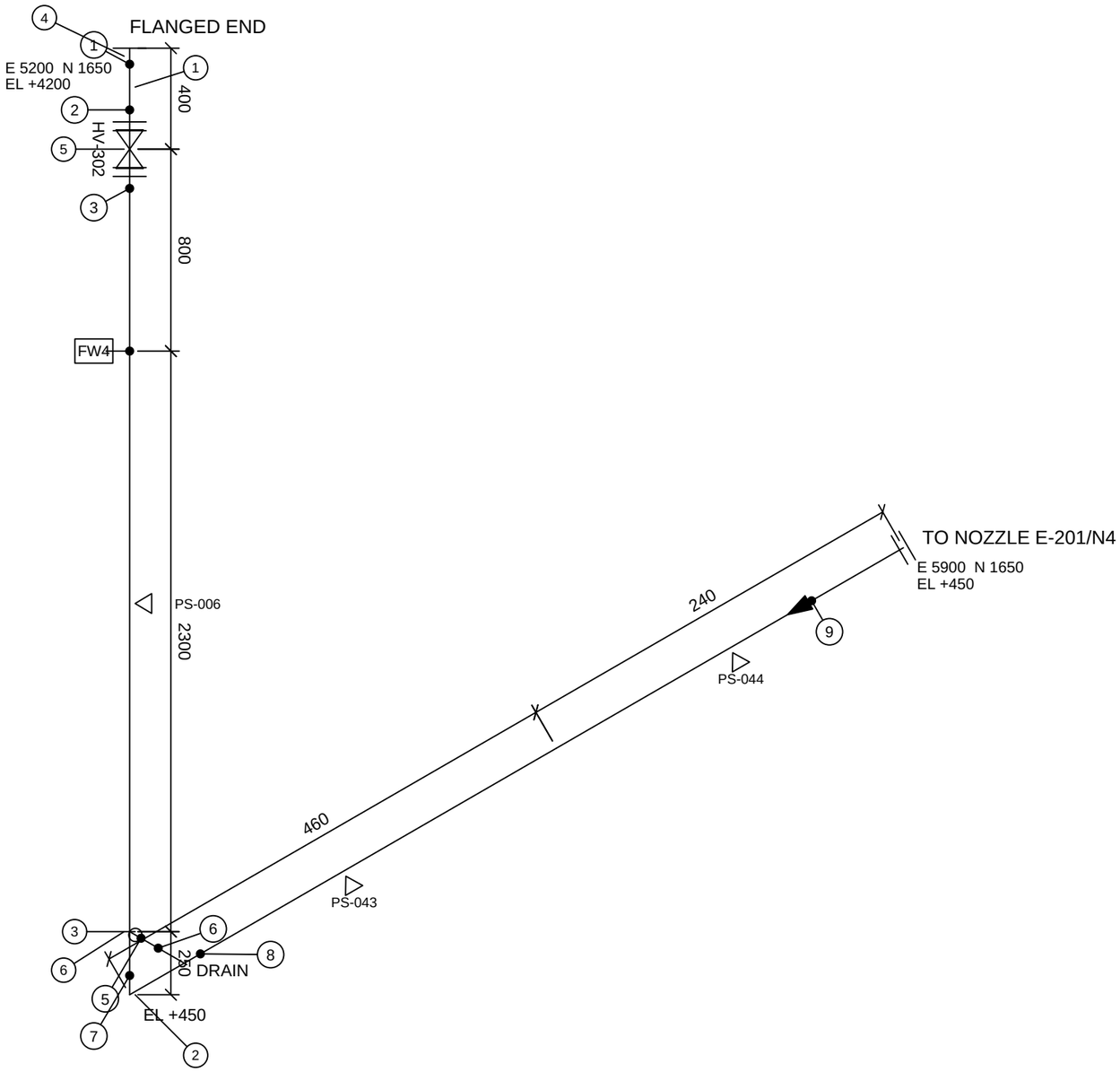
WELD	SIZE	TYPE	SPOOL
1	2	SHOP	S01
2	1	SHOP	S01
3	1	SHOP	S01
4	2	SHOP	S01
5	2	SHOP	S02
6	2	SHOP	S02
7	2	SHOP	S03
8	2	SHOP	S03
9	2	SHOP	S04
10	2	SHOP	S04
11	2	SHOP	S04
12	2	SHOP	S04

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 12 SHOP, 0 FIELD (FW).
INSULATION H 40 MM.
WELD INCHES 22.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 2 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	LT-301
SPOOL	ALL (4 SPOOLS)
CLASS	FB-A1L Class 150
SIZE	2 A106B
SERVICE	LTHW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	3.86 m	Pipe, sch STD, A106B	2
2	1	Elbow 90 LR, BW, sch STD, A106B	2
3	1	Branch outlet fitting (weld-on olet), A106B	2x1
4	4	Flange weld neck, Class 150, A106B	2
5	1	Gate valve, flanged, Class 150, handwheel operated	2
6	1	Drain valve, ball, socket weld or threaded, with plug, Class 150	1
7	3	Gasket, flat ring, Class 150	2
8	3	Bolt set 4 x M16 x 85, stud bolts with nuts, Class 150	2
9	1	Trunnion for 2	2
10	2	Pipe shoe for 2	2

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	2	181
S02	P1	2	644
S03	P1	2	2474
S03	P2	2	560

WELDS

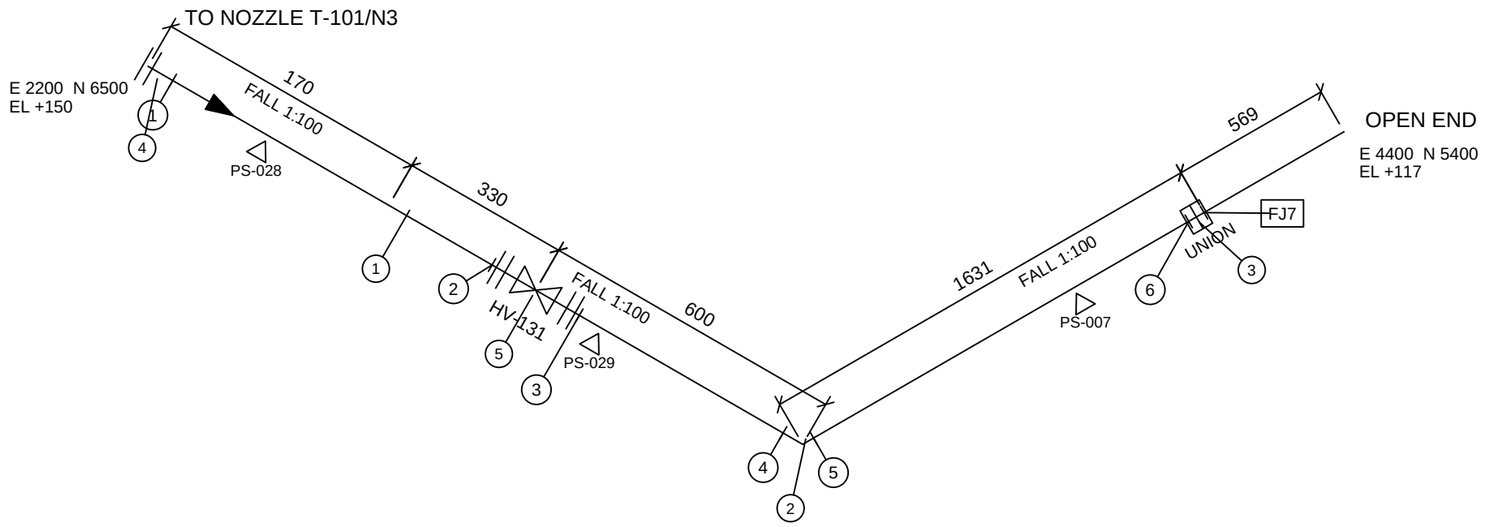
WELD	SIZE	TYPE	SPOOL
1	2	SHOP	S01
2	2	SHOP	S01
3	2	SHOP	S02
4	2	FIELD	S02
5	1	SHOP	S03
6	1	SHOP	S03
7	2	SHOP	S03
8	2	SHOP	S03
9	2	SHOP	S03

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 8 SHOP, 1 FIELD (FW).
INSULATION H 40 MM.
FLOW FROM THE LINE'S END TO ITS START (SEE ARROW).
WELD INCHES 16.00, NDE 10% OF BUTT WELDS.
SUPPORTS: 3 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	LT-302
SPOOL	ALL (3 SPOOLS)
CLASS	FB-A1L Class 150
SIZE	2 A106B
SERVICE	LTHW
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	3.05 m	Pipe, sch 80, A106B	1
2	1	Elbow 90, THD, Class 3000, A106B	1
3	1	Union, THD, Class 3000, A106B	1
4	3	Flange threaded, Class 150, A106B	1
5	1	Ball valve, flanged, Class 150, lever operated	1
6	3	Gasket, flat ring, Class 150	1
7	3	Bolt set 4 x M16 x 80, stud bolts with nuts, Class 150	1
8	2	Pipe shoe for 1	1
9	1	U-bolt for 1	1

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	1	418
S02	P1	1	492
S02	P2	1	1559
S03	P1	1	586

WELDS

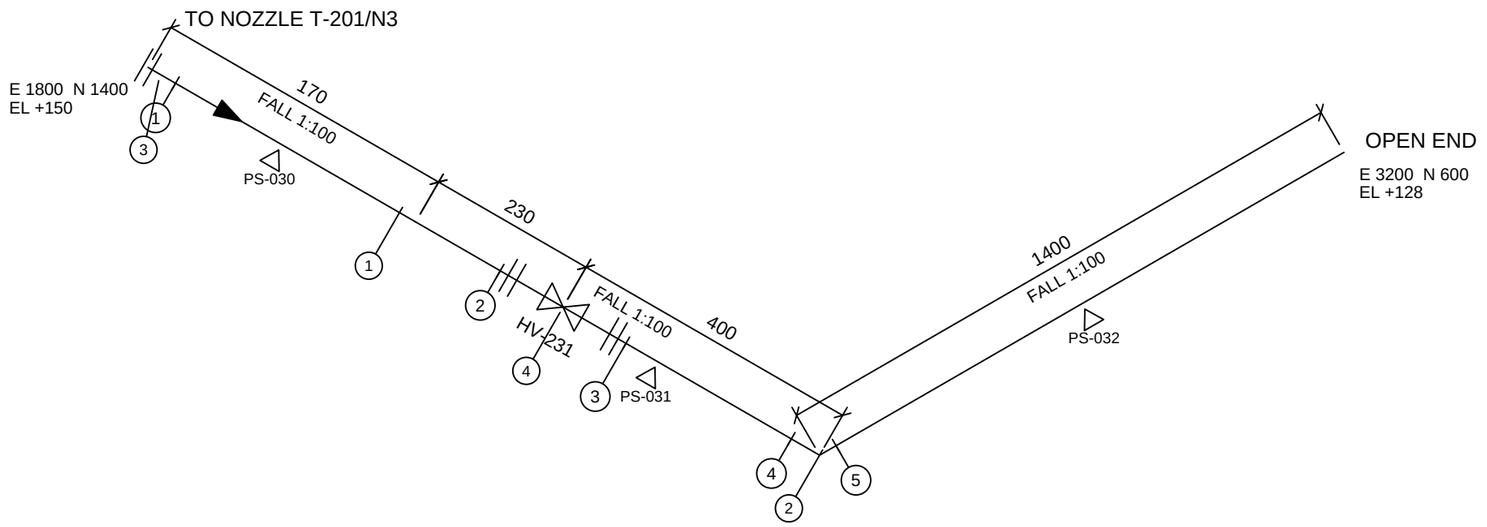
WELD	SIZE	TYPE	SPOOL
1	1	SHOP THD	S01
2	1	SHOP THD	S01
3	1	SHOP THD	S02
4	1	SHOP THD	S02
5	1	SHOP THD	S02
6	1	SHOP THD	S02
7	1	FIELD THD	S02

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 0 SHOP, 0 FIELD (FW).
THREADED JOINTS (THD): 6 SHOP, 1 FIELD (FJ, AT UNIONS).
SLOPE 1:100 IN THE DIRECTION OF FLOW.
THREADED (NPT) FITTINGS, CLASS 3000. CUT LENGTHS INCLUDE EACH END'S THREAD ENGAGEMENT (HAND-TIGHT PLUS WRENCH MAKE-UP).
SUPPORTS: 3 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	DR-101
SPOOL	ALL (3 SPOOLS)
CLASS	T1 Class 150
SIZE	1 A106B
SERVICE	DR
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	1.98 m	Pipe, sch 80, A106B	1
2	1	Elbow 90, THD, Class 3000, A106B	1
3	3	Flange threaded, Class 150, A106B	1
4	1	Ball valve, flanged, Class 150, lever operated	1
5	3	Gasket, flat ring, Class 150	1
6	3	Bolt set 4 x M16 x 80, stud bolts with nuts, Class 150	1
7	3	Pipe shoe for 1	1

CUT LIST

SPOOL	PIECE	SIZE	LENGTH
S01	P1	1	318
S02	P1	1	292
S02	P2	1	1373

WELDS

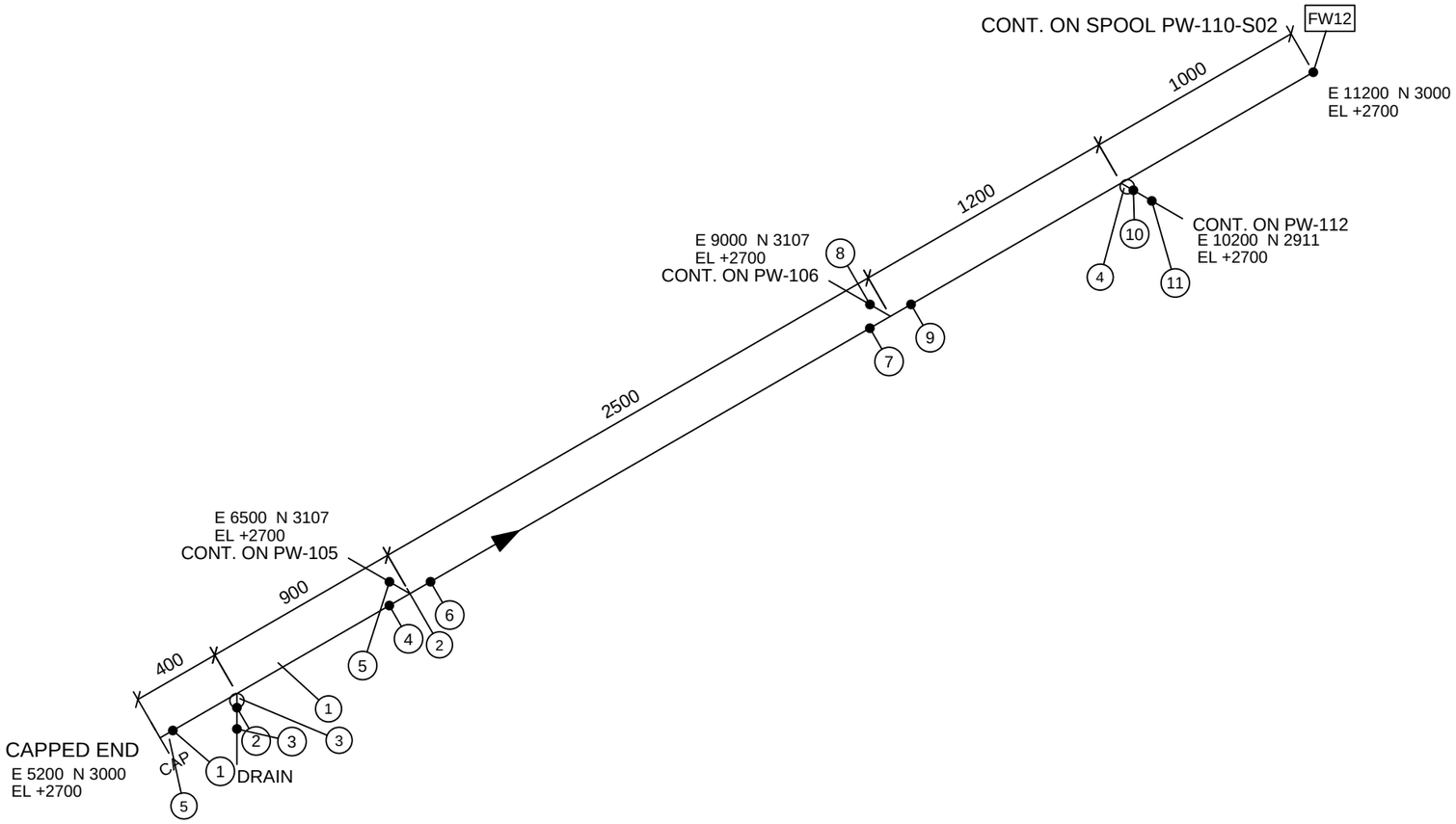
WELD	SIZE	TYPE	SPOOL
1	1	SHOP THD	S01
2	1	SHOP THD	S01
3	1	SHOP THD	S02
4	1	SHOP THD	S02
5	1	SHOP THD	S02

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 0 SHOP, 0 FIELD (FW).
THREADED JOINTS (THD): 5 SHOP, 0 FIELD (FJ, AT UNIONS).
SLOPE 1:100 IN THE DIRECTION OF FLOW.
THREADED (NPT) FITTINGS, CLASS 3000. CUT LENGTHS INCLUDE EACH END'S THREAD ENGAGEMENT (HAND-TIGHT PLUS WRENCH MAKE-UP).
SUPPORTS: 3 (TAGS ON THE SHEET).

PIPING ISOMETRIC

LINE	DR-201
SPOOL	ALL (2 SPOOLS)
CLASS	T1 Class 150
SIZE	1 A106B
SERVICE	DR
SHEET	1 OF 1
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 11 SHOP, 1 FIELD (FW).
WELD INCHES 33.00, NDE 10% OF BUTT WELDS.

N

BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	5.50 m	Pipe, sch Medium, P265GH	DN100
2	2	Tee reducing, BW, sch Medium, P265GH	DN100xDN80
3	1	Branch outlet fitting (weld-on olet), P265GH	DN100xDN20
4	1	Branch outlet fitting (weld-on olet), P265GH	DN100xDN15
5	1	Cap, BW, sch Medium, P265GH	DN100

CUT LIST

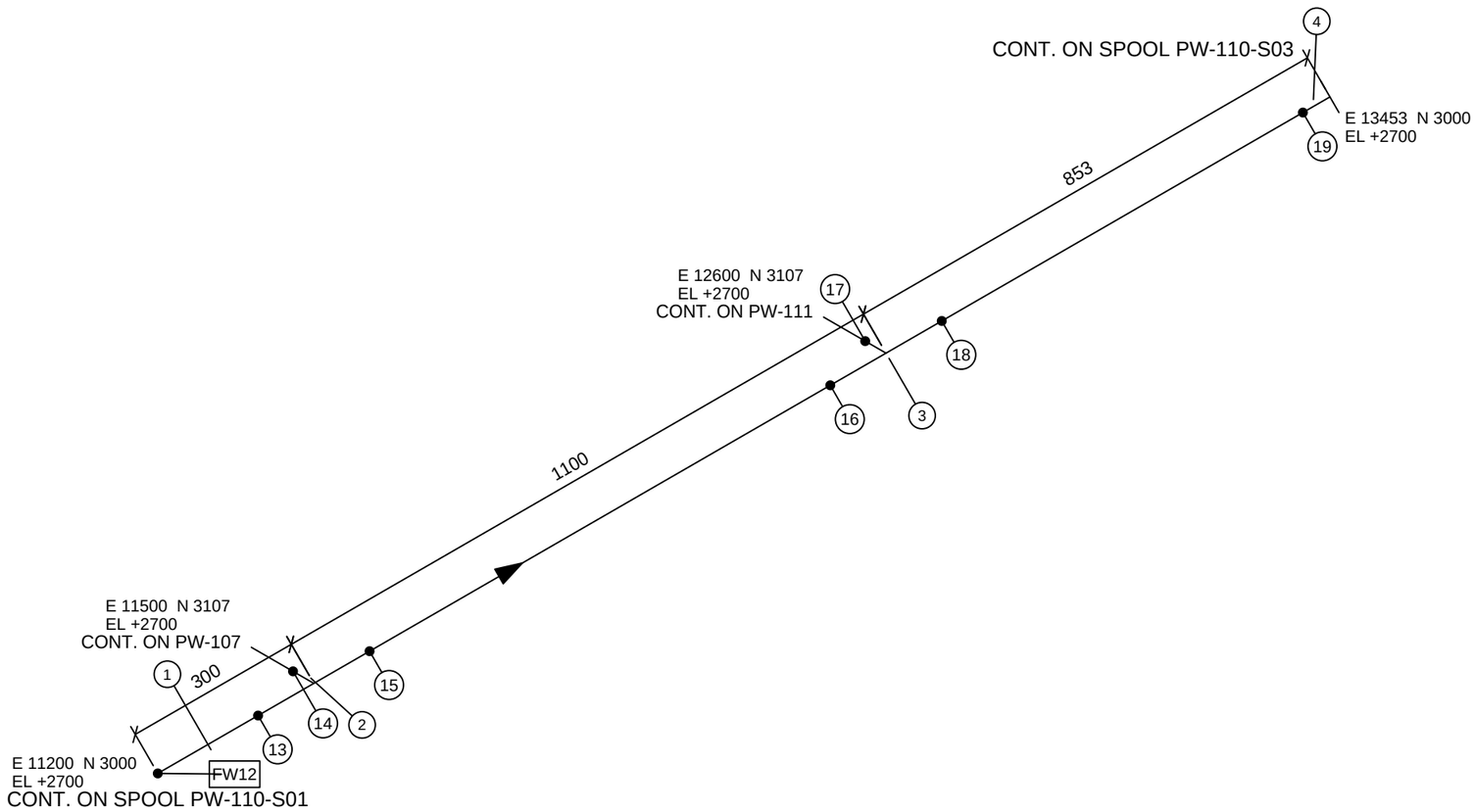
PIECE	SIZE	LENGTH
P1	DN100	1126
P2	DN100	2286
P3	DN100	2093

WELDS

WELD	SIZE	TYPE	SPOOL
1	DN100	SHOP	S01
2	DN20	SHOP	S01
3	DN20	SHOP	S01
4	DN100	SHOP	S01
5	DN80	SHOP	S01
6	DN100	SHOP	S01
7	DN100	SHOP	S01
8	DN80	SHOP	S01
9	DN100	SHOP	S01
10	DN15	SHOP	S01
11	DN15	SHOP	S01
12	DN100	FIELD	S01

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S01
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	1 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 7 SHOP, 1 FIELD (FW).
WELD INCHES 29.25, NDE 10% OF BUTT WELDS.

N

BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	1.77 m	Pipe, sch Medium, P265GH	DN100
2	1	Tee reducing, BW, sch Medium, P265GH	DN100xDN80
3	1	Tee reducing, BW, sch Medium, P265GH	DN100xDN50
4	1	Flange weld neck, PN16, P265GH	DN100

CUT LIST

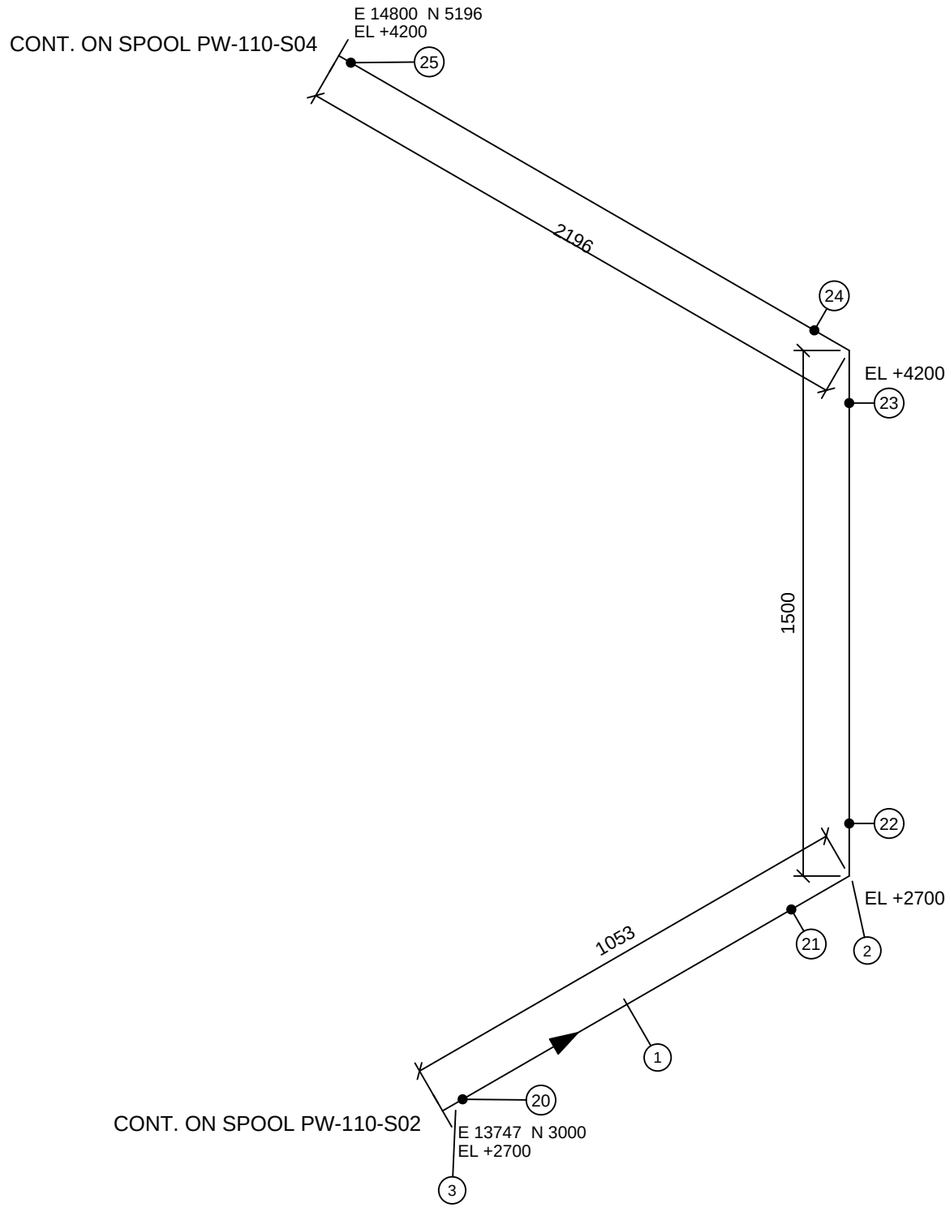
PIECE	SIZE	LENGTH
P1	DN100	193
P2	DN100	886
P3	DN100	694

WELDS

WELD	SIZE	TYPE	SPOOL
12	DN100	FIELD	S01
13	DN100	SHOP	S02
14	DN80	SHOP	S02
15	DN100	SHOP	S02
16	DN100	SHOP	S02
17	DN50	SHOP	S02
18	DN100	SHOP	S02
19	DN100	SHOP	S02

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S02
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	2 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 6 SHOP, 0 FIELD (FW).
WELD INCHES 24.00, NDE 10% OF BUTT WELDS.

N

BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	4.04 m	Pipe, sch Medium, P265GH	DN100
2	2	Elbow 90 LR, BW, sch Medium, P265GH	DN100
3	2	Flange weld neck, PN16, P265GH	DN100

CUT LIST

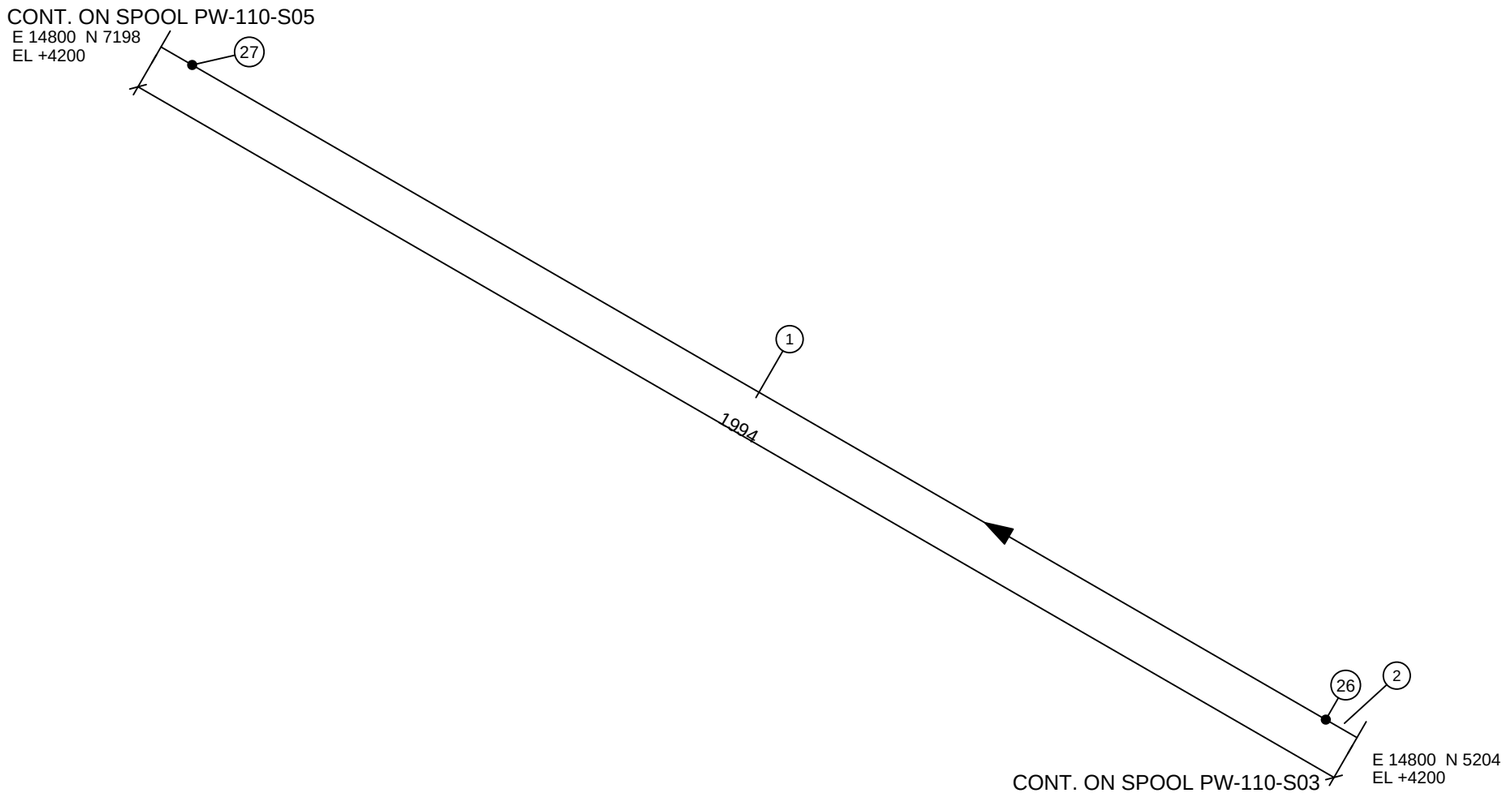
PIECE	SIZE	LENGTH
P1	DN100	851
P2	DN100	1200
P3	DN100	1994

WELDS

WELD	SIZE	TYPE	SPOOL
20	DN100	SHOP	S03
21	DN100	SHOP	S03
22	DN100	SHOP	S03
23	DN100	SHOP	S03
24	DN100	SHOP	S03
25	DN100	SHOP	S03

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S03
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	3 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	1.89 m	Pipe, sch Medium, P265GH	DN100
2	2	Flange weld neck, PN16, P265GH	DN100

CUT LIST

PIECE	SIZE	LENGTH
P1	DN100	1890

WELDS

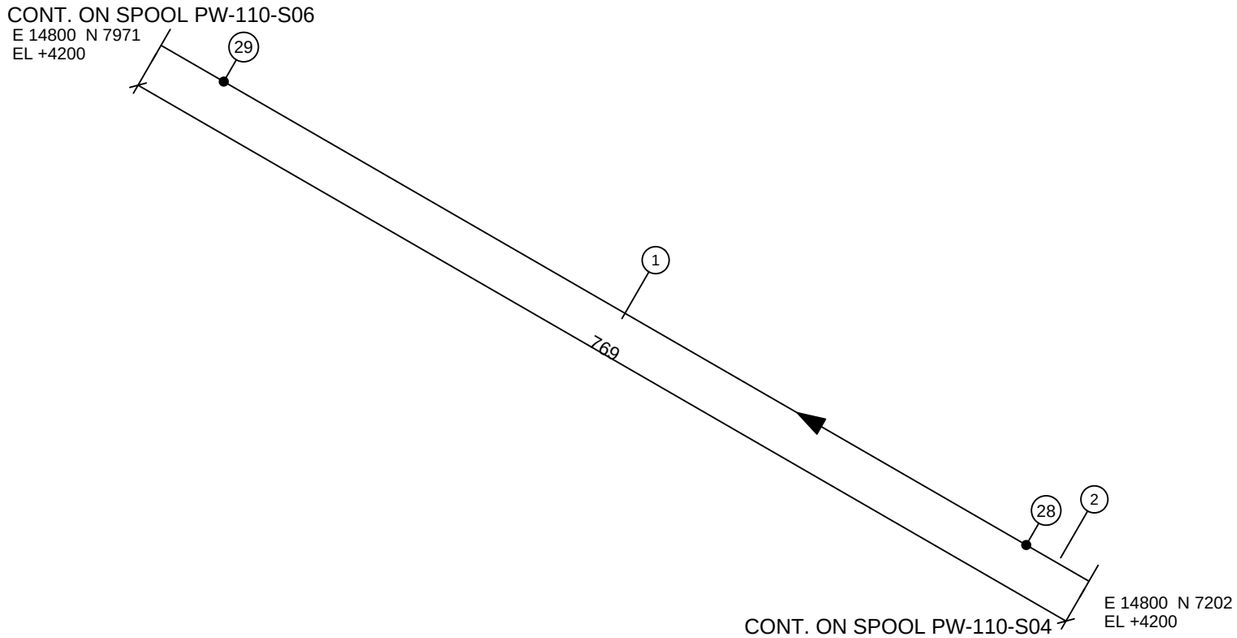
WELD	SIZE	TYPE	SPOOL
26	DN100	SHOP	S04
27	DN100	SHOP	S04

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 0 FIELD (FW).
WELD INCHES 8.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S04
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	4 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.67 m	Pipe, sch Medium, P265GH	DN100
2	2	Flange weld neck, PN16, P265GH	DN100

CUT LIST

PIECE	SIZE	LENGTH
P1	DN100	665

WELDS

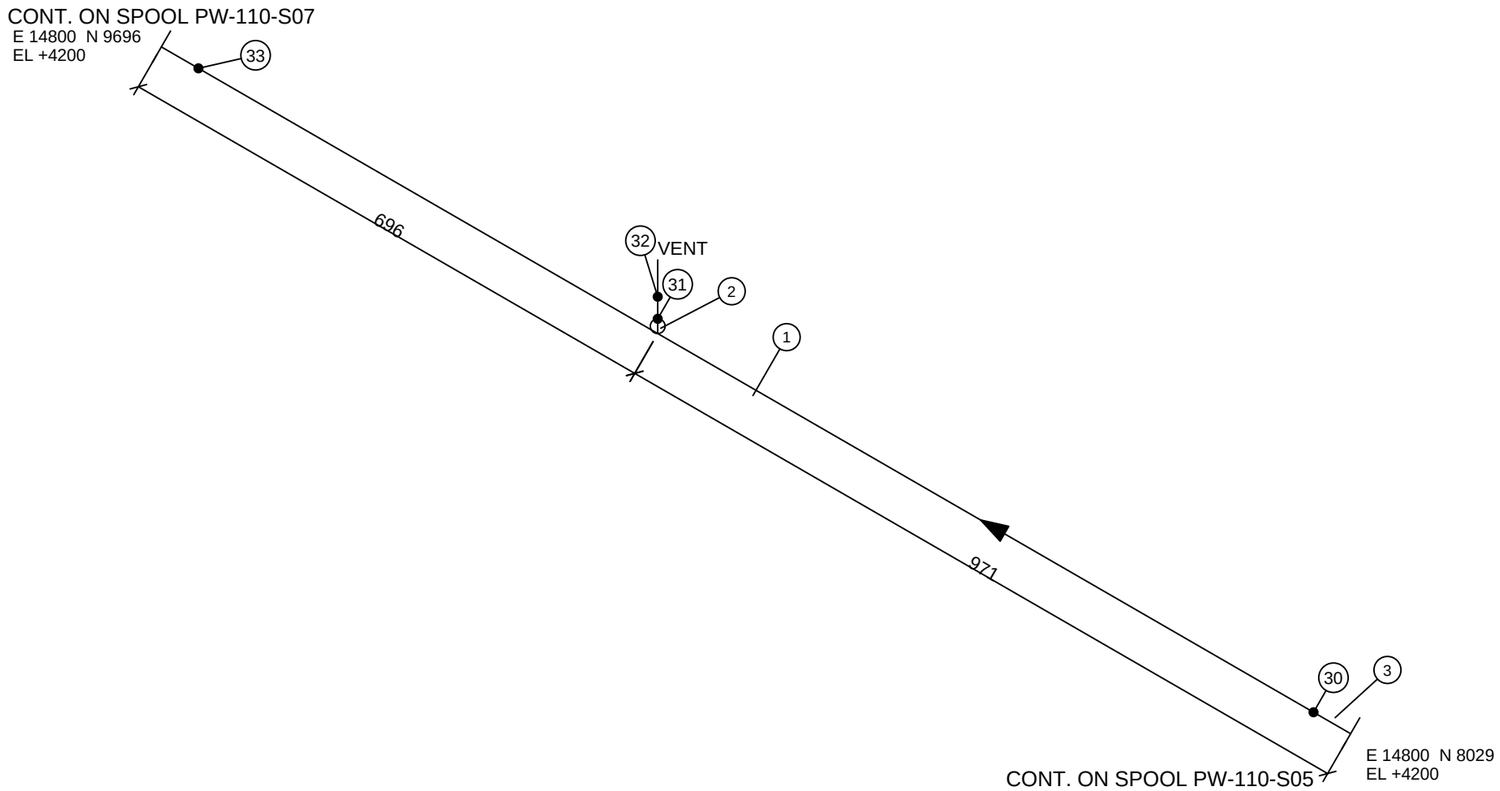
WELD	SIZE	TYPE	SPOOL
28	DN100	SHOP	S05
29	DN100	SHOP	S05

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 0 FIELD (FW).
WELD INCHES 8.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S05
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	5 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	1.56 m	Pipe, sch Medium, P265GH	DN100
2	1	Branch outlet, P265GH	DN100xDN20
3	2	Flange weld neck, PN16, P265GH	DN100

CUT LIST

PIECE	SIZE	LENGTH
P1	DN100	1562

WELDS

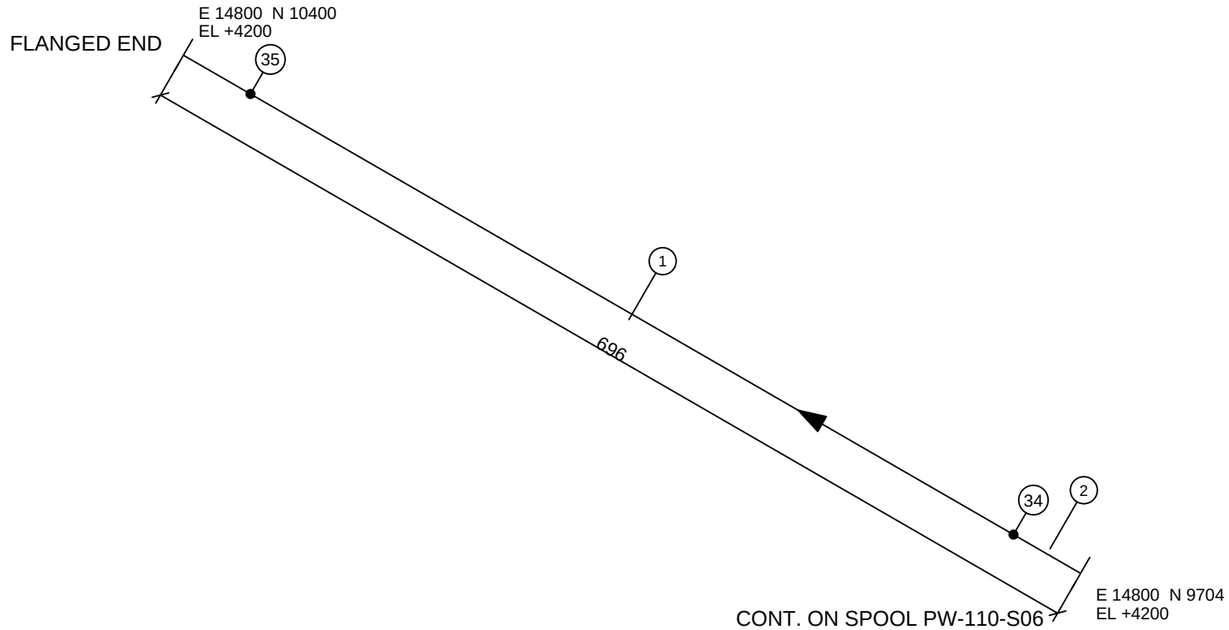
WELD	SIZE	TYPE	SPOOL
30	DN100	SHOP	S06
31	DN20	SHOP	S06
32	DN20	SHOP	S06
33	DN100	SHOP	S06

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 4 SHOP, 0 FIELD (FW).
WELD INCHES 9.50, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S06
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	6 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.59 m	Pipe, sch Medium, P265GH	DN100
2	2	Flange weld neck, PN16, P265GH	DN100

CUT LIST

PIECE	SIZE	LENGTH
P1	DN100	592

WELDS

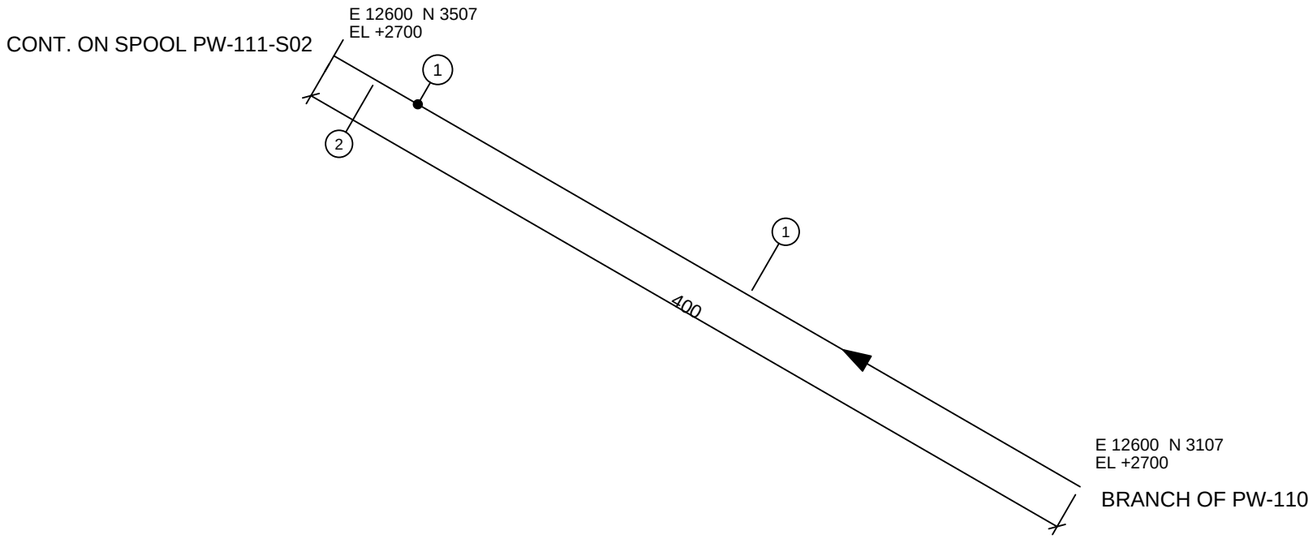
WELD	SIZE	TYPE	SPOOL
34	DN100	SHOP	S07
35	DN100	SHOP	S07

N

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 0 FIELD (FW).
WELD INCHES 8.00, NDE 10% OF BUTT WELDS.

PIPING ISOMETRIC

LINE	PW-110
SPOOL	PW-110-S07
CLASS	FB-E1 PN16
SIZE	DN100 P265GH
SERVICE	PW
SHEET	7 OF 7
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 1 SHOP, 0 FIELD (FW).
WELD INCHES 2.00, NDE 10% OF BUTT WELDS.

N

BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.36 m	Pipe, sch Medium, P265GH	DN50
2	1	Flange weld neck, PN16, P265GH	DN50

CUT LIST

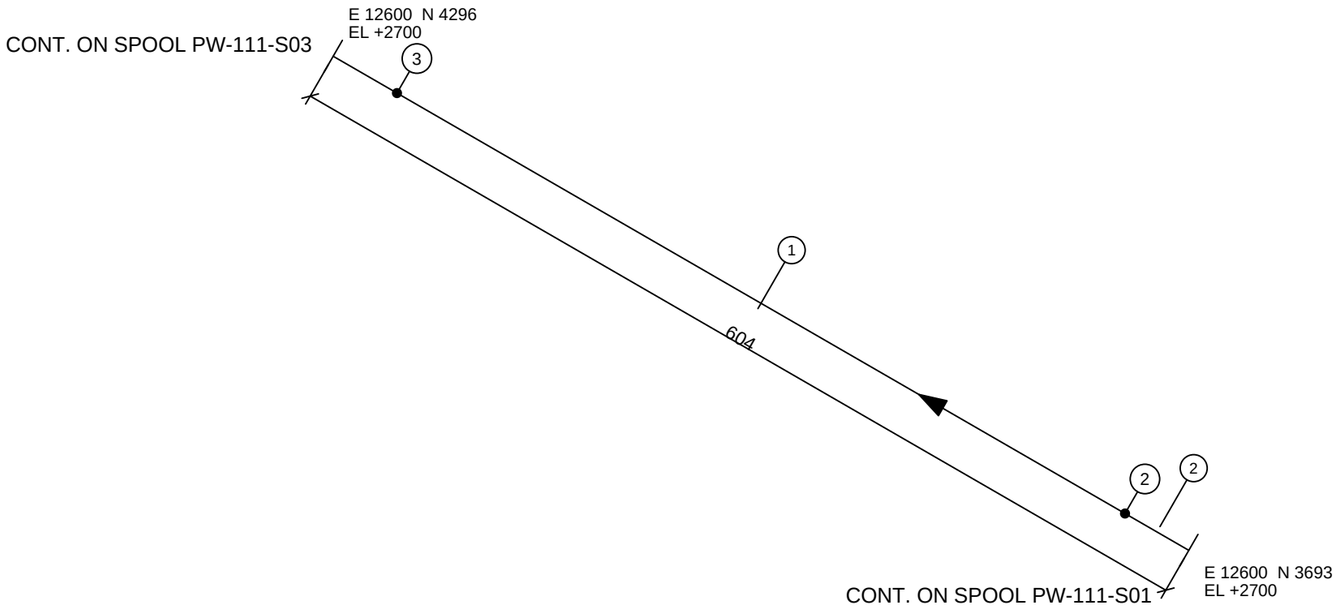
PIECE	SIZE	LENGTH
P1	DN50	355

WELDS

WELD	SIZE	TYPE	SPOOL
1	DN50	SHOP	S01

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S01
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	1 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.51 m	Pipe, sch Medium, P265GH	DN50
2	2	Flange weld neck, PN16, P265GH	DN50

CUT LIST

PIECE	SIZE	LENGTH
P1	DN50	514

WELDS

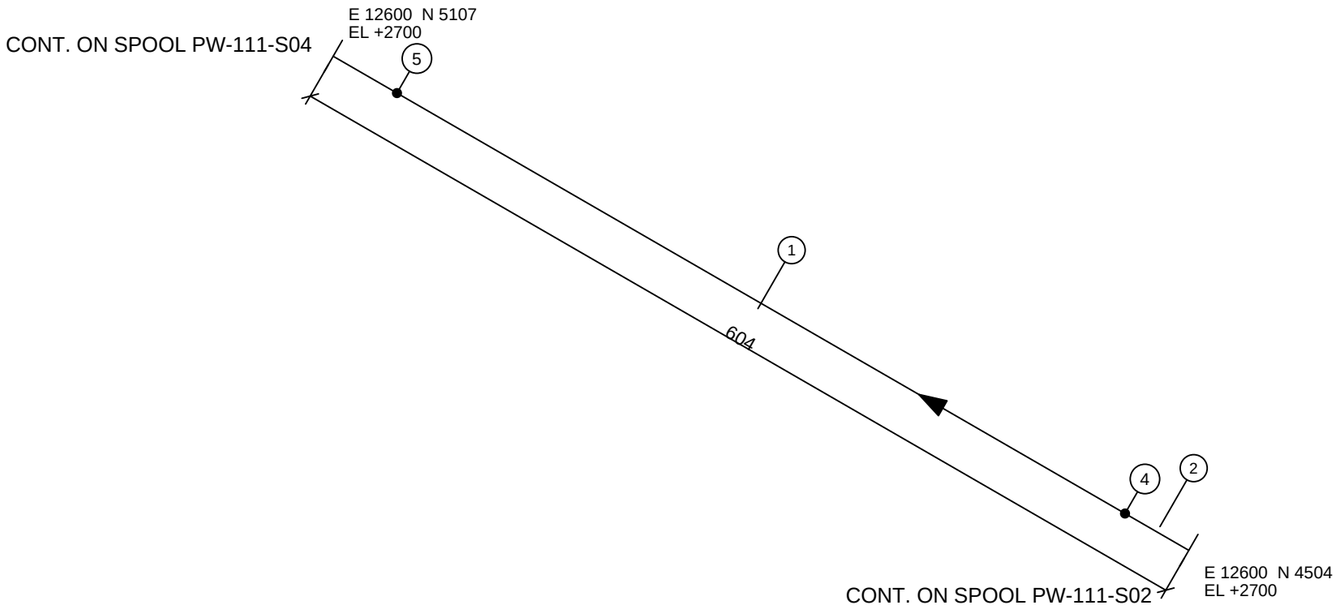
WELD	SIZE	TYPE	SPOOL
2	DN50	SHOP	S02
3	DN50	SHOP	S02

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 0 FIELD (FW).
WELD INCHES 4.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S02
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	2 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	0.51 m	Pipe, sch Medium, P265GH	DN50
2	2	Flange weld neck, PN16, P265GH	DN50

CUT LIST

PIECE	SIZE	LENGTH
P1	DN50	514

WELDS

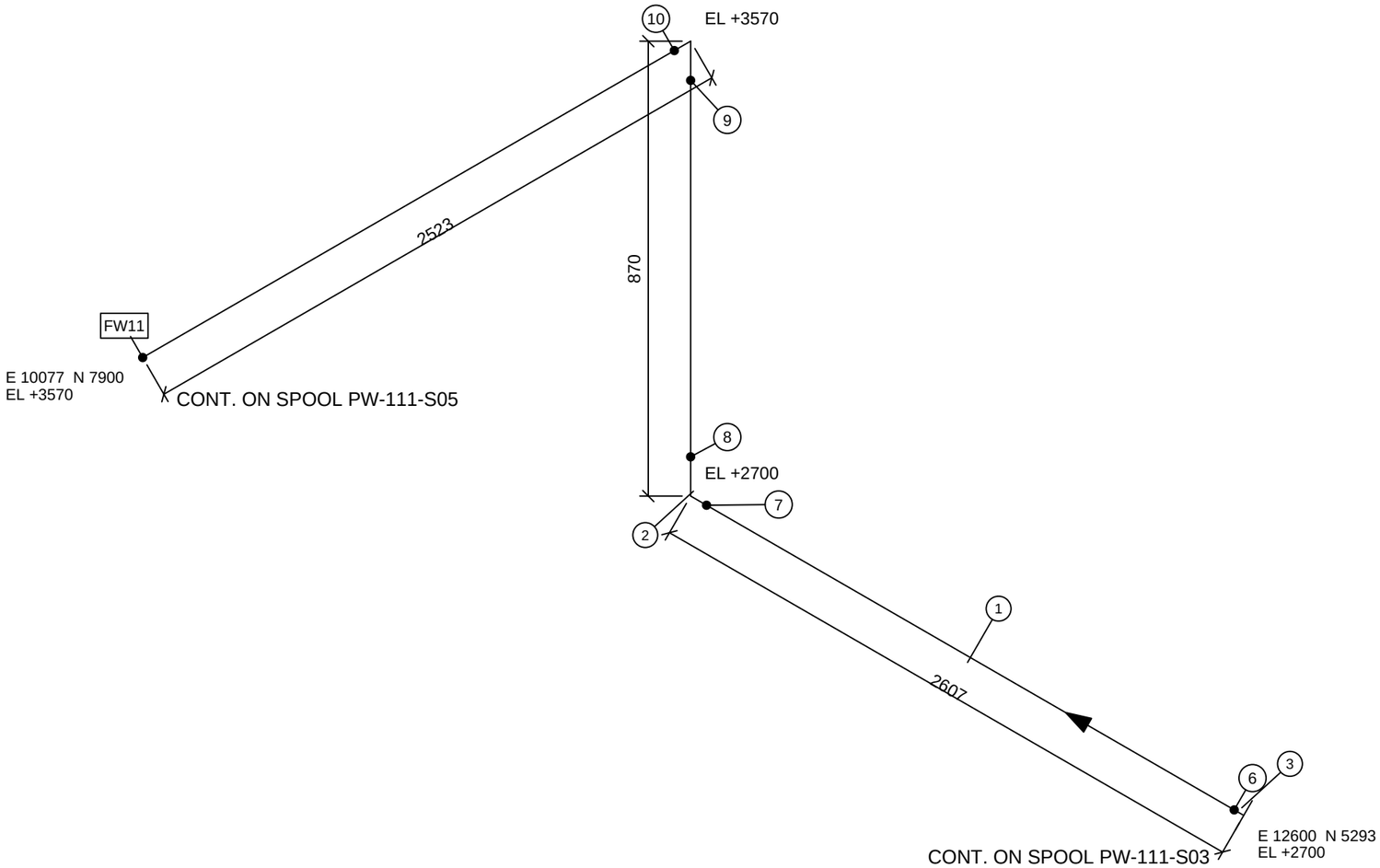
WELD	SIZE	TYPE	SPOOL
4	DN50	SHOP	S03
5	DN50	SHOP	S03

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 0 FIELD (FW).
WELD INCHES 4.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S03
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	3 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	5.66 m	Pipe, sch Medium, P265GH	DN50
2	2	Elbow 90 LR, BW, sch Medium, P265GH	DN50
3	1	Flange weld neck, PN16, P265GH	DN50

CUT LIST

PIECE	SIZE	LENGTH
P1	DN50	2487
P2	DN50	720
P3	DN50	2448

WELDS

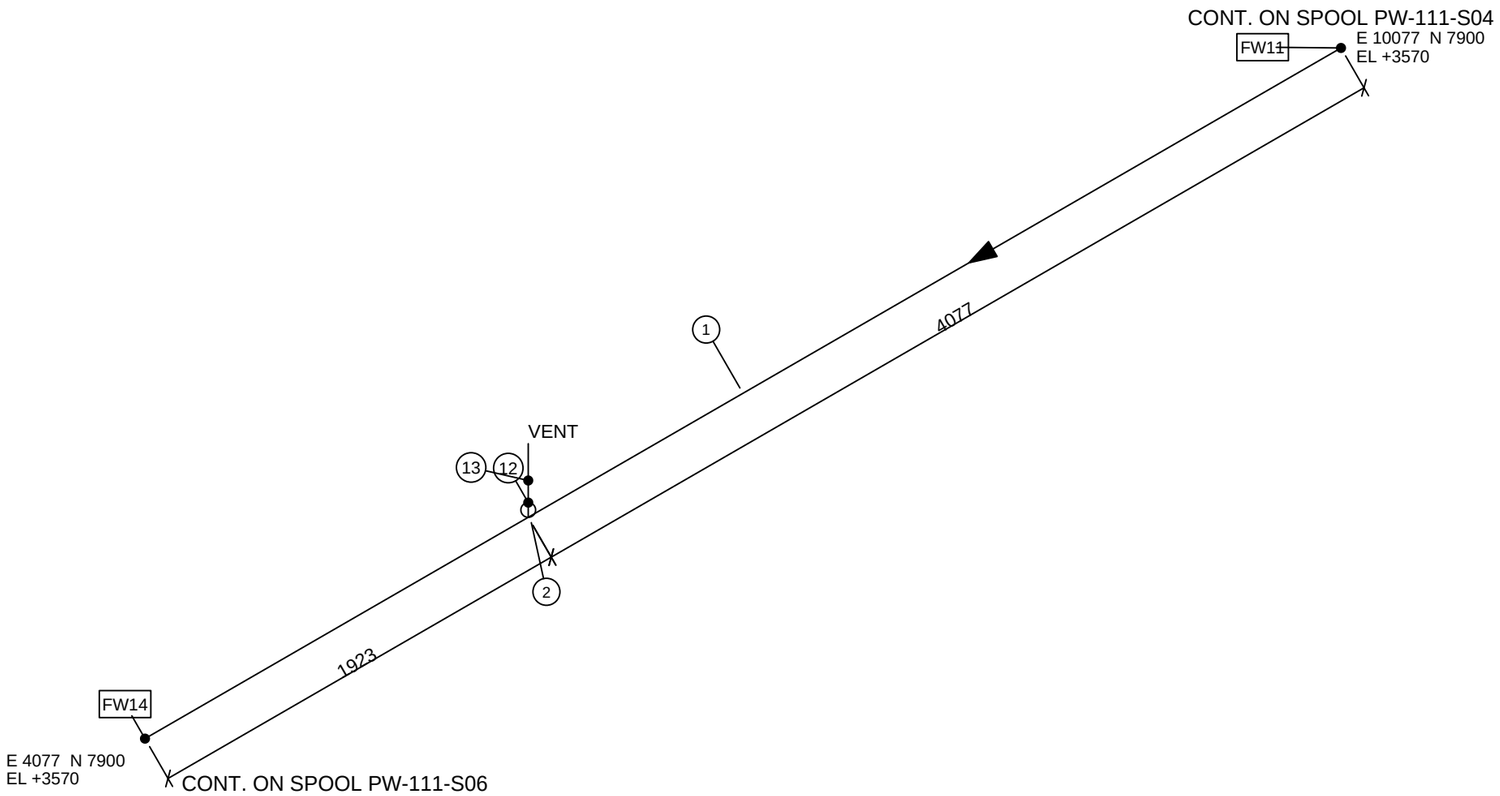
WELD	SIZE	TYPE	SPOOL
6	DN50	SHOP	S04
7	DN50	SHOP	S04
8	DN50	SHOP	S04
9	DN50	SHOP	S04
10	DN50	SHOP	S04
11	DN50	FIELD	S04

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 5 SHOP, 1 FIELD (FW).
WELD INCHES 12.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S04
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	4 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	6.00 m	Pipe, sch Medium, P265GH	DN50
2	1	Branch outlet, P265GH	DN50xDN20

CUT LIST

PIECE	SIZE	LENGTH
P1	DN50	6000

WELDS

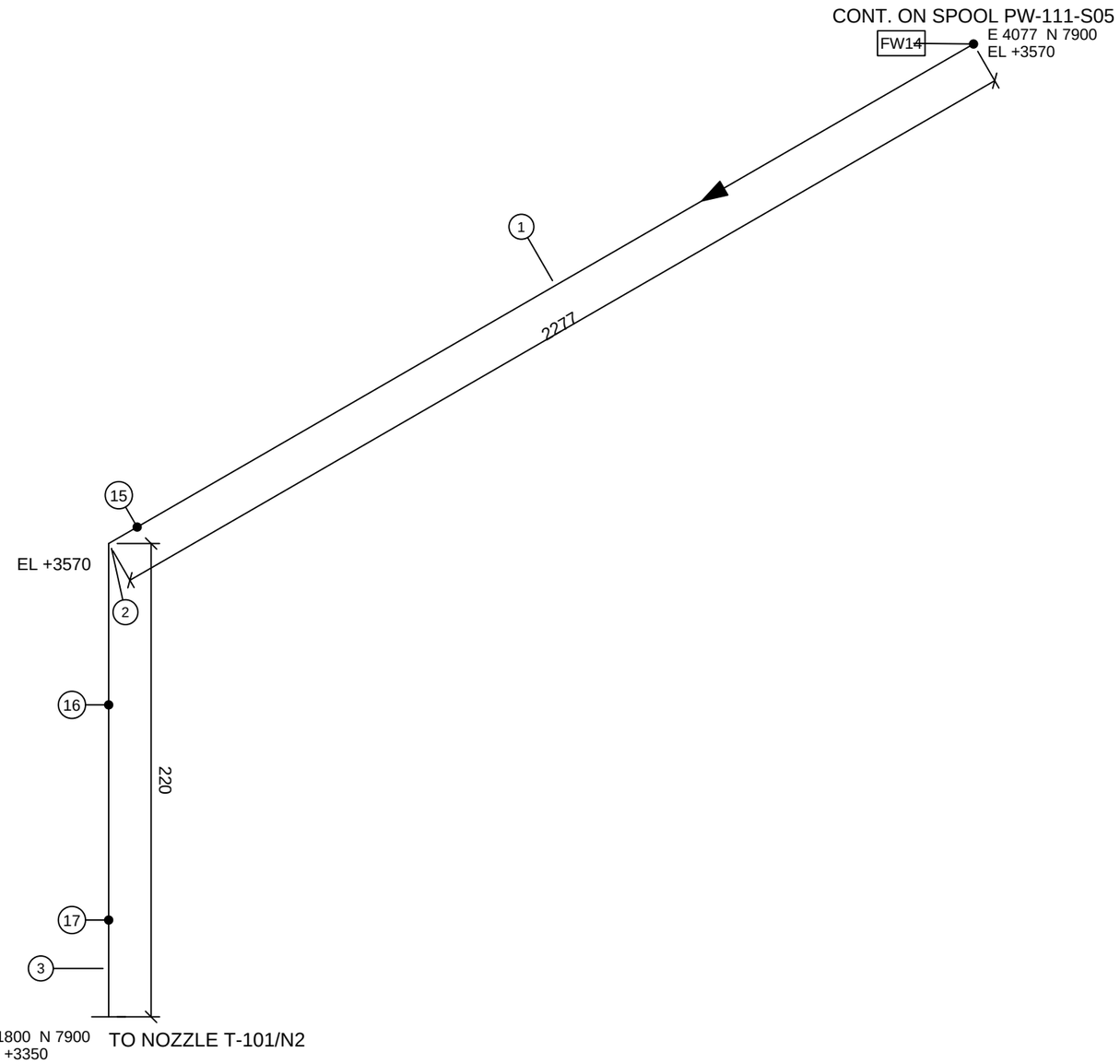
WELD	SIZE	TYPE	SPOOL
11	DN50	FIELD	S04
12	DN20	SHOP	S05
13	DN20	SHOP	S05
14	DN50	FIELD	S05

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 2 SHOP, 2 FIELD (FW).
WELD INCHES 5.50, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S05
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	5 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2



BILL OF MATERIALS

PT	QTY	DESCRIPTION	SIZE
1	2.30 m	Pipe, sch Medium, P265GH	DN50
2	1	Elbow 90 LR, BW, sch Medium, P265GH	DN50
3	1	Flange weld neck, PN16, P265GH	DN50

CUT LIST

PIECE	SIZE	LENGTH
P1	DN50	2202
P2	DN50	100

WELDS

WELD	SIZE	TYPE	SPOOL
14	DN50	FIELD	S05
15	DN50	SHOP	S06
16	DN50	SHOP	S06
17	DN50	SHOP	S06

NOT TO SCALE. DIMENSIONS IN MM, CENTRE TO CENTRE ALONG THE PIPE.
WELDS: 3 SHOP, 1 FIELD (FW).
WELD INCHES 8.00, NDE 10% OF BUTT WELDS.

N

PIPING ISOMETRIC

LINE	PW-111
SPOOL	PW-111-S06
CLASS	FB-E1 PN16
SIZE	DN50 P265GH
SERVICE	PW
SHEET	6 OF 6
REV	P2
PROJECT	Fellbrook Creamery Plant Room 2