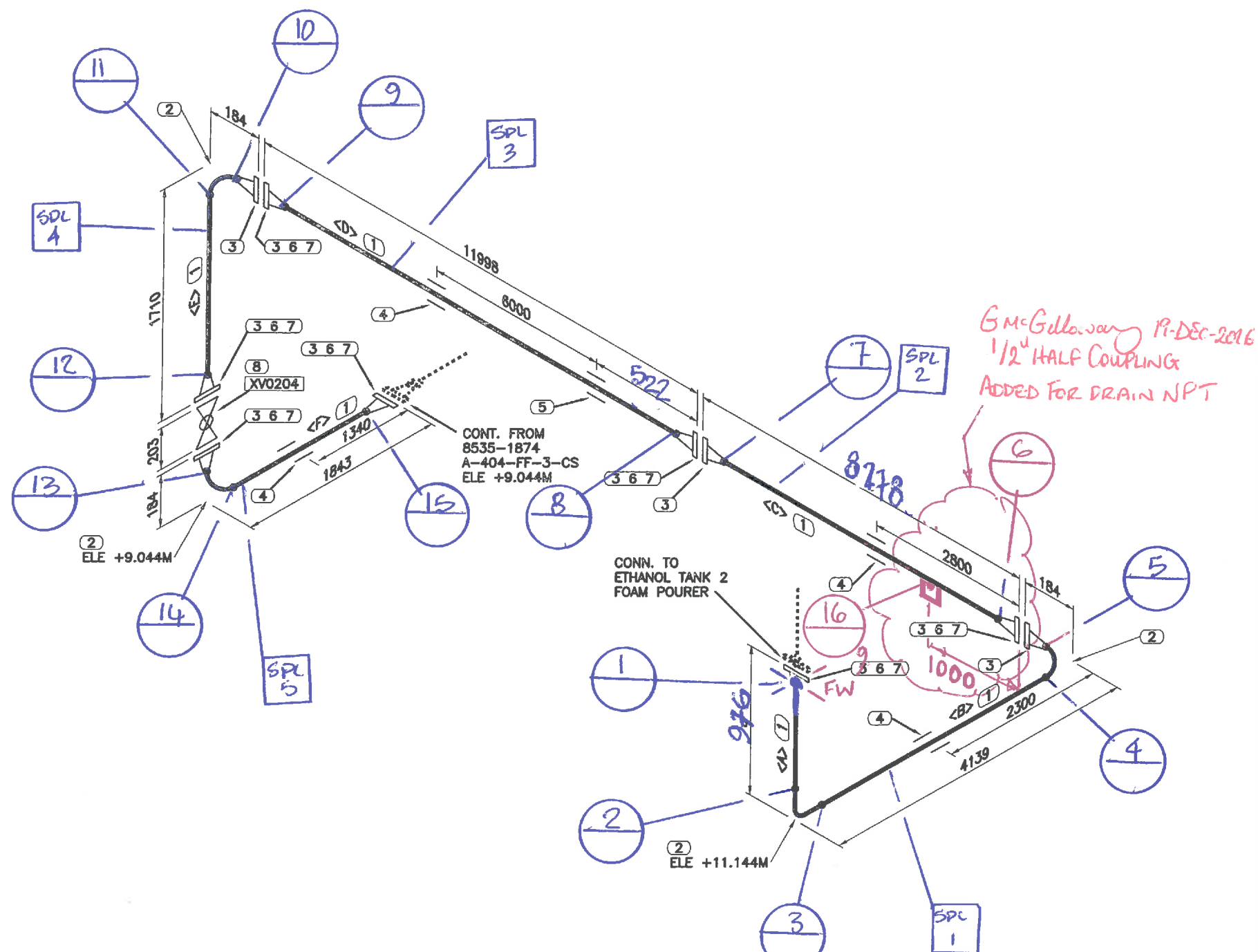


N
PLANT NORTH



MATERIAL LIST - FABRICATION

PT.NO	SIZE	DESCRIPTION	QTY	WEIGHT (KG)
1	3	PIPE, SMLS CS SCH.40 ASTM A108 B	27.6 M	310.5
2	3	90 DEG. LONG RADIUS ELBOW, BW, ASME B16.9 SCH.40 ASTM A234	4	8.2
3	3	FLANGE, WN, RF, 150 LB. ASME B16.5 ASTM A105	10 9	51.0
4	3	PIPE SHOE PS001	4	11.6
5	3	GUIDED PIPE SHOE PS002	1	3.1
9	3	FLANGE SDRF 150LB		

MATERIAL LIST - ERECTION

PT.NO	SIZE	DESCRIPTION	QTY	WEIGHT (KG)
6	3	GASKET, 1.6mm, 150 LB. COMPRESSED NON ASBESTOS FIBRE BS 7531	7	7.0
7	5/8	(4) BOLT SET, 150LB ASTM A193 Gr.B7 BOLTS/ASTM A194 Gr.2H NUTS (90 MM LG)	7	5.5
8	3	BALL VALVE, FB, 150 LB. BS531, A350 CS, XV0204	1	25.0

CUTTING LIST

CUT PIECE	SIZE	LENGTH (MM)	END PREP-1	END PREP-2
A	3"	695	BEVEL	BEVEL
B	3"	3910	BEVEL	BEVEL
C	3"	7879	BEVEL	BEVEL
D	3"	14860	BEVEL	BEVEL
E	3"	1525	BEVEL	BEVEL
F	3"	1658	BEVEL	BEVEL

C1	ISSUED FOR CONSTRUCTION	DS	03/05/16	LJP					
REV	DESCRIPTION	BY	DATE	CHK	REV	DESCRIPTION	BY	DATE	CHK