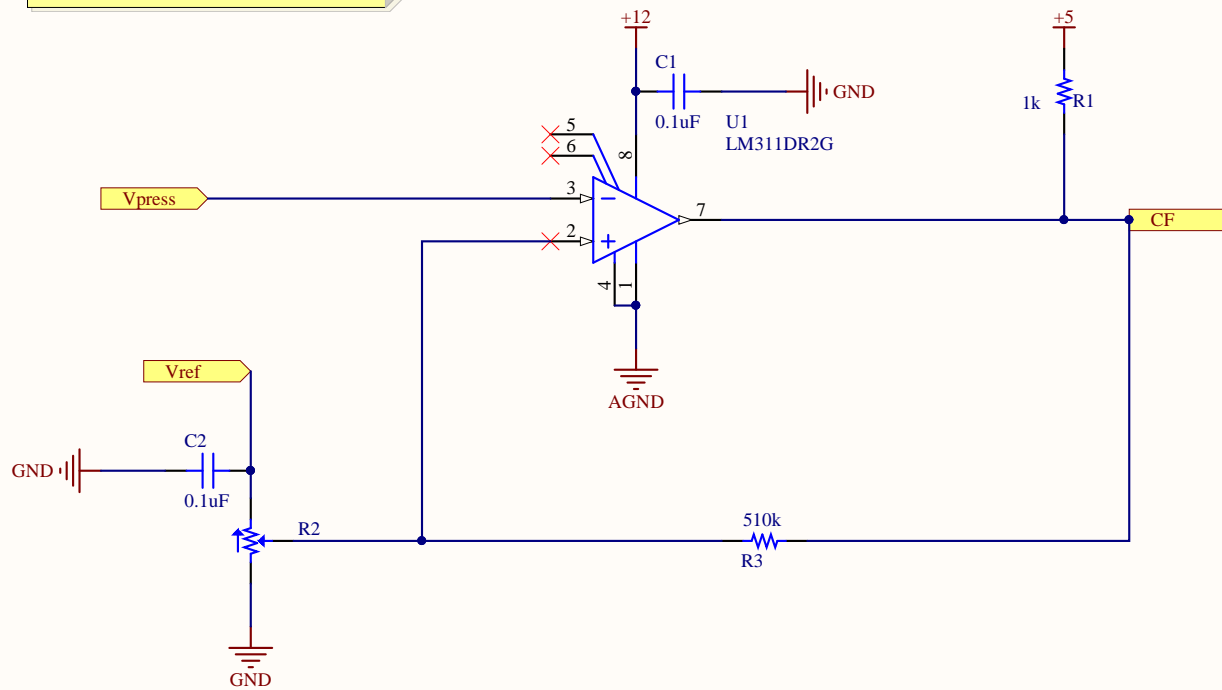
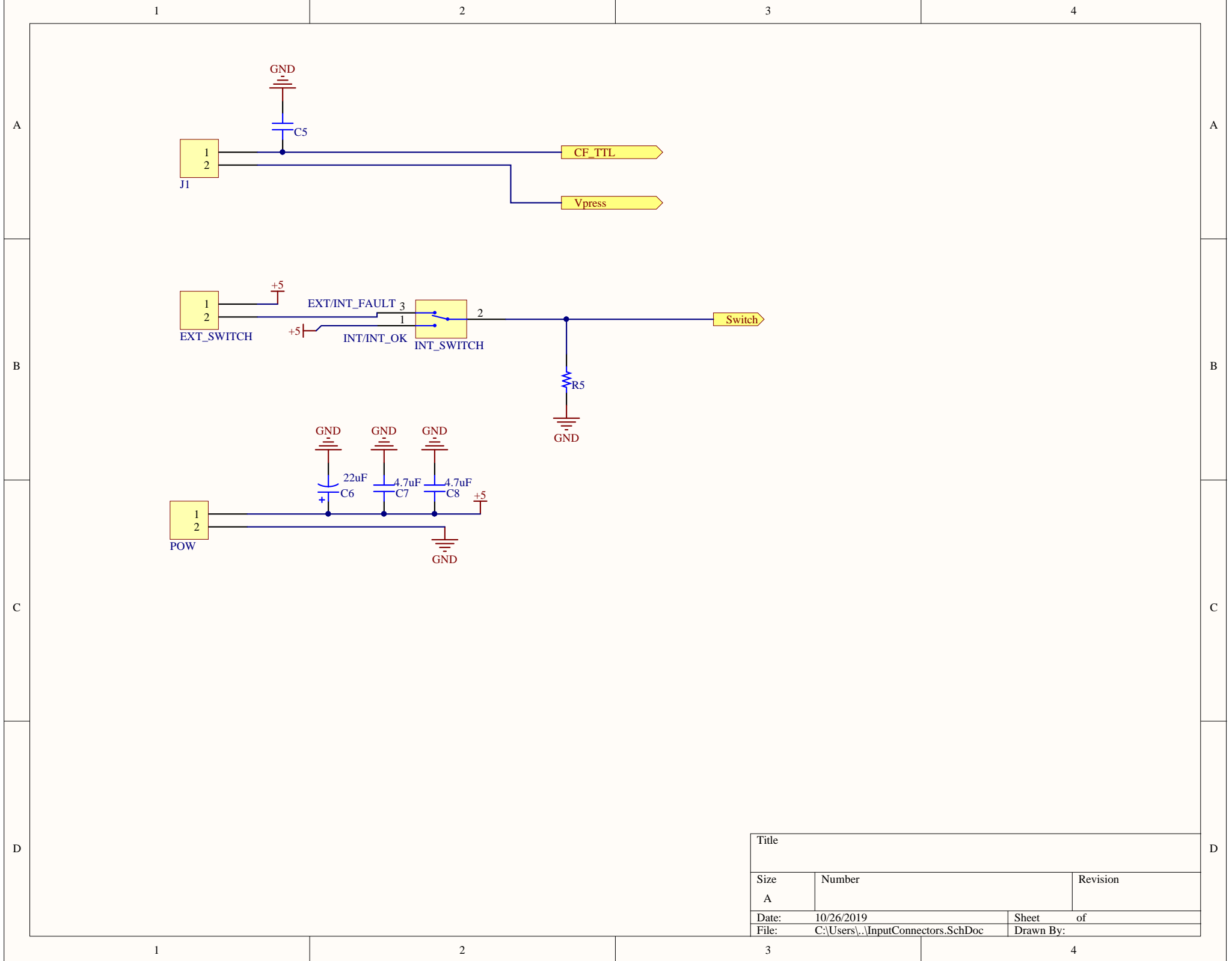


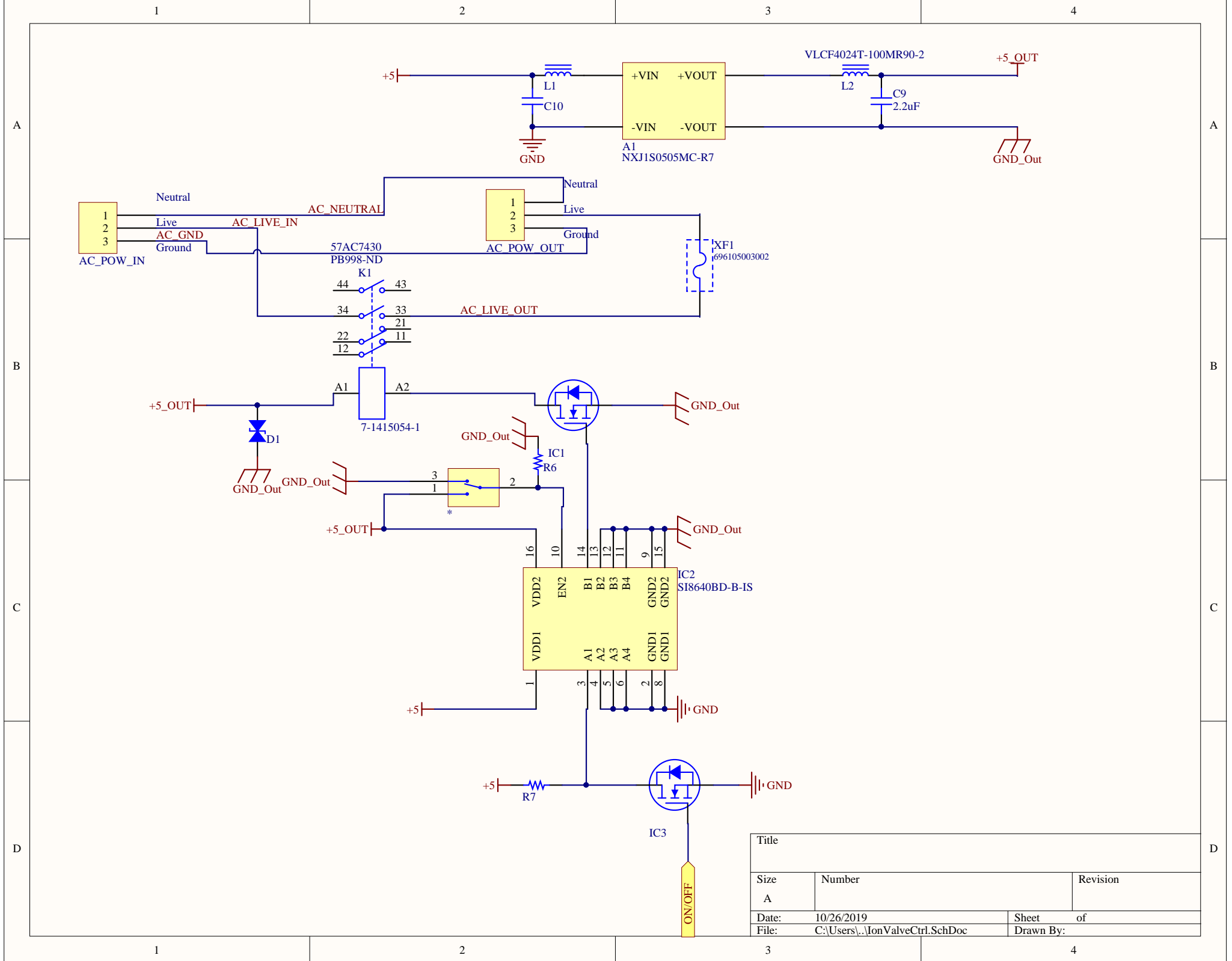
▲ Analog Pressure:
 $V_{press} = 11 + \log_{10}(P)$ P in torrs



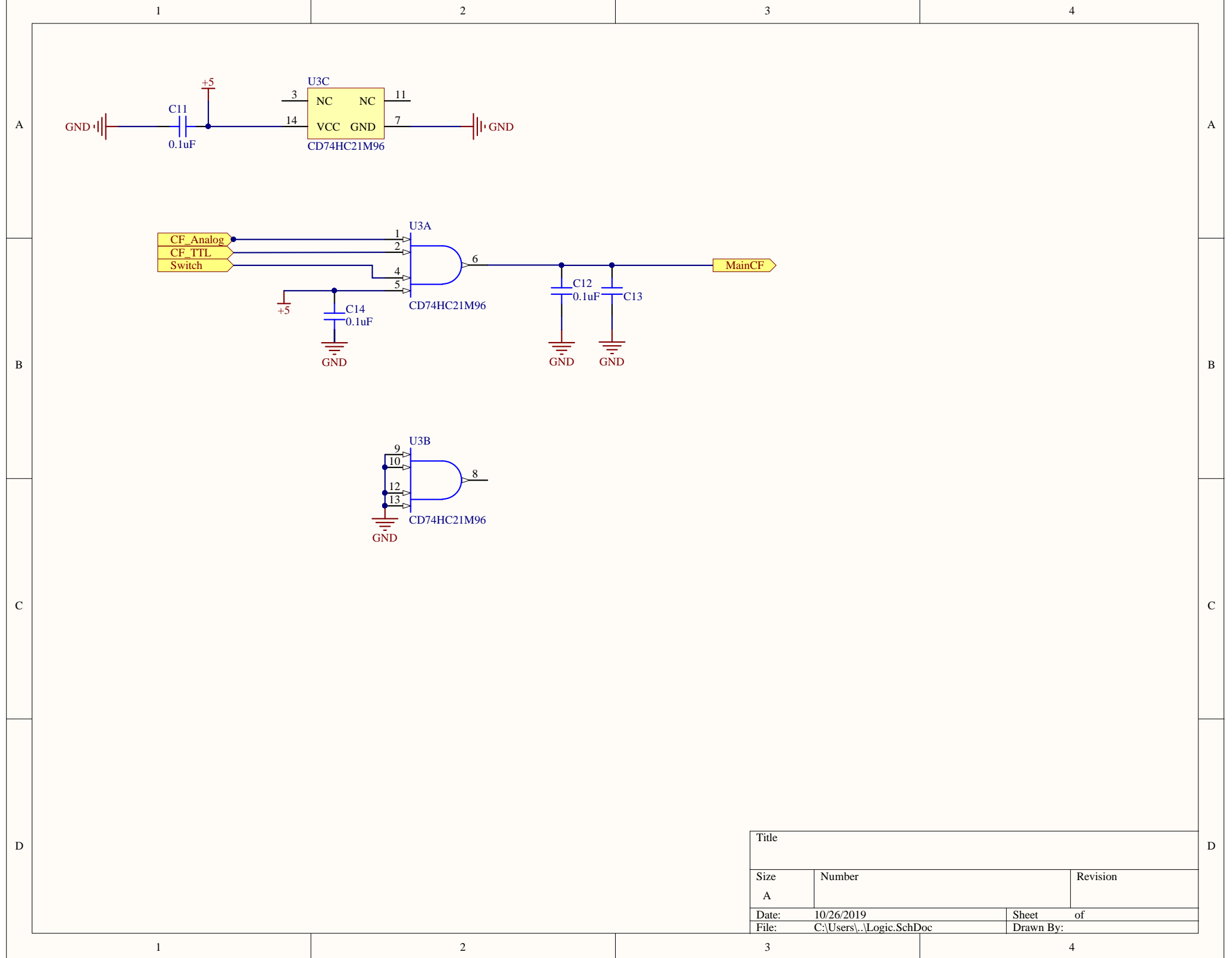
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Size	Number	Revision
A		
Date:	10/26/2019	Sheet of
File:	C:\Users\...\AnalogPressure.SchDoc	Drawn By:



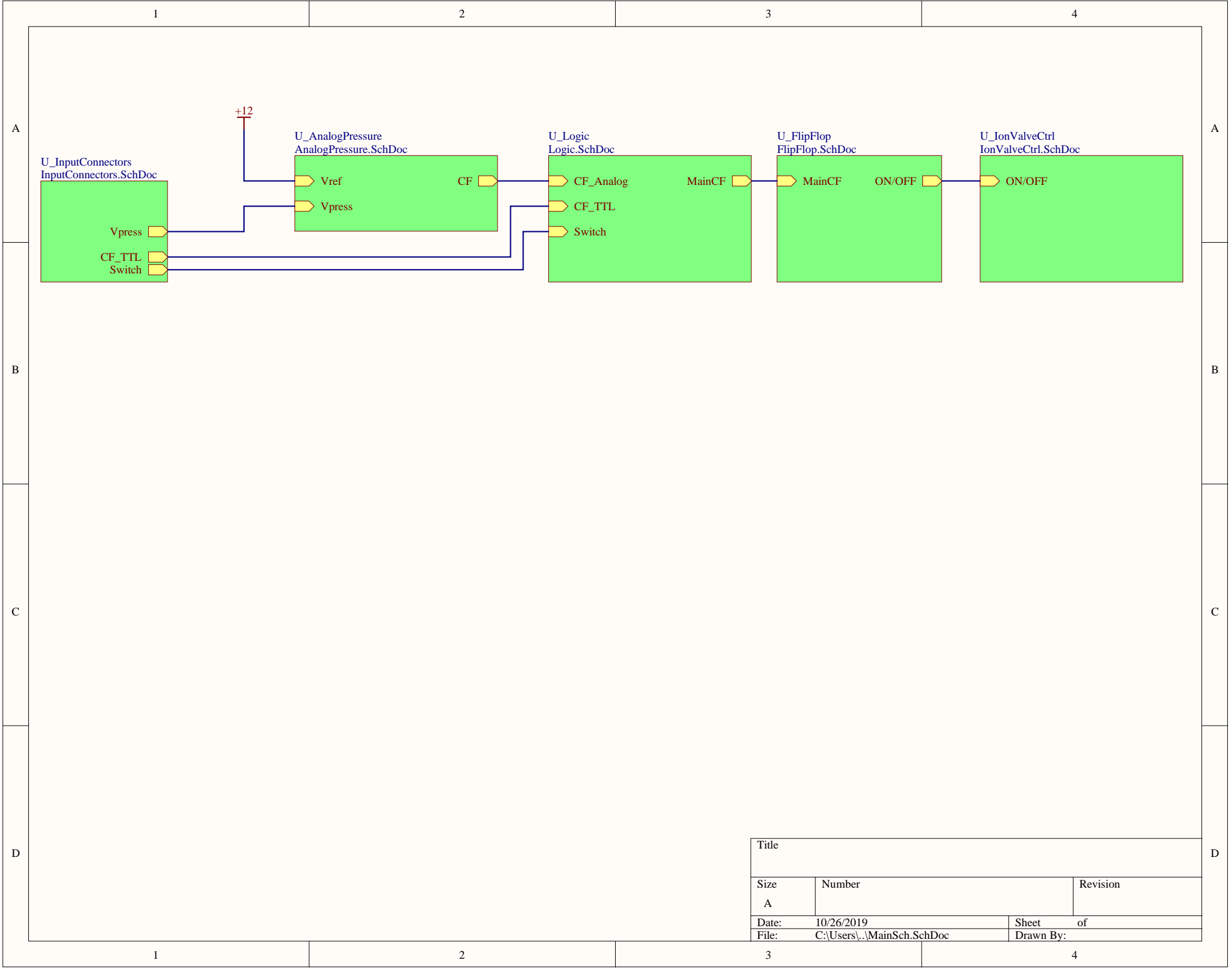
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Title		
Size	Number	Revision
A		
Date:	10/26/2019	Sheet of
File:	C:\Users\...\Ion ValveCtrl.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	10/26/2019	Sheet of
File:	C:\Users\...\Logic.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
CL-SB-12B-01T	SWITCH SLIDE SPDT	[NoValue], INT_SWIT	SW_CL-SB-12B-01	CL-SB-12B-01T	2
NXJ1S0505MC-R7	DC/DC SM 1W 5V-5V	A1	MURATA NXJ1	NXJ1S0505MC-R7	1
691508110303	CONN TERM BLK 3PC	AC_POW_IN, AC_POV	WURTH691508110303	691508110303	2
0.1uF	CAP CER 0.1UF 25V X	C1, C2, C4, C11, C12	CAP 0805/2012	CL21B104KACNNNC	6
10000pF	CAP CER 10000PF 25V	C3, C5	CAP 0805/2012	CL21B103KAANNNC	2
22uF	CAP ALUM 22UF 20%	C6	CAP AL TH D8 L3.5 H1	EEU-FC2A220	1
4.7uF	CAP CER 4.7UF 50V X	C7, C8	CAP 1206/3216 - 1.0	C3216X5R1H475K085	2
2.2uF	CAP CER 2.2UF 100V	C9	CAP 1206/3216	CL31B225KCHSNNE	1
4.7uF	CAP CER 4.7UF 10V X	C10	CAP 1206/3216 - 1.8	CL31B475KPHNNNE	1
100pF	CAP CER 100PF 10V M	C13	CAP 0201/0603	0201ZA101JAT2A	1
SM15T15CA	TVS DIODE 12.8VWM	D1	ST DO214AB SMC	SM15T15CA	1
282834-2	TERM BLOCK 2POS S	EXT_SWITCH, J1, PO	TE 282834-2	282834-2	3
BSS138WH6327XTSA	MOSFET N-CH 60V 28	IC1, IC3	INFINEON SOT-323-3	BSS138WH6327XTSA	2
SI8640BD-B-IS	DGTL ISO 5KV 4CH G	IC2	SI LABS SOIC-16 WID	SI8640BD-B-IS	1
7-1415054-1	Force Guided Relay S	K1	TECO-3-1415055-1-1	CMP-1684-00019-1	1
VLCF4024T-4R7N1R4	FIXED IND 4.7UH 1.4	L1	TDK VLCF4024-2	VLCF4024T-4R7N1R4	1
VLCF4024T-100MR90	FIXED IND 10UH 900	L2	TDK VLCF4024-2	VLCF4024T-100MR90	1
1k	RES SMD 1K OHM 1%	R1	RES 1206/3216	ERJ-8ENF1001V	1
20k	TRIMMER 20K OHM 3	R2	POT MODEL91A	91AR20KLF	1
510k	RES SMD 510K OHM 5	R3	RES 1206/3216	ERJ-8GEYJ514V	1
10k	RES SMD 10K OHM 1%	R4, R5, R6, R7	RES 1206/3216	ERJ-8ENF1002V	4
AB11AH-HC	SWITCH PUSH SPST-	RST	NKK AB11AH-HC	AB11AH-HC	1
LM311DR2G	Single Comparator, 5	U1	ONSC-SOIC-8-751-07	CMP-1305-00058-1	1
NE555D	Precision Timer, 4.5 t	U2	D0008A_L	CMP-2000-06840-1	1
CD74HC21M96	High Speed CMOS Lo	U3	D0014A_N	CMP-0777-00096-3	1
696105003002	WR-FSH Fuse Holder	XF1	696105003002	CMP-1502-00234-1	1