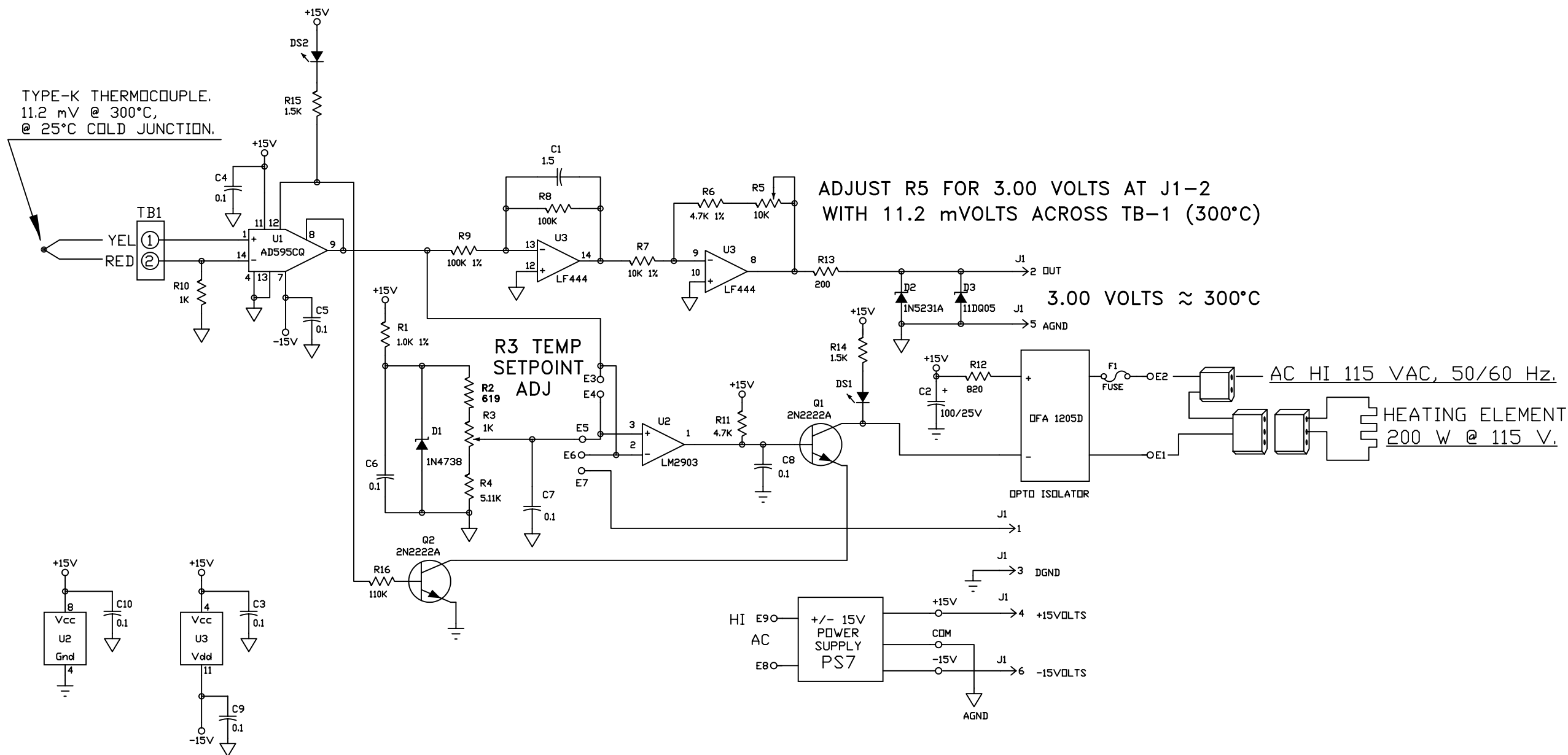


# APPENDIX A – M701 ELECTRICAL SCHEMATICS

**Table A-1: Electrical Schematics**

Part No.	Name
0025704	Schematic Diagram, temperature control, HC scrubber
00256	Assembly Diagram, temperature control, HC scrubber
02264	PCB, Moly Temp Control, CE
03744	M701, Interconnect Drawing

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3. CAPACITANCE IS IN MICROFARADS  
2. RESISTANCE IS IN OHMS  
1. RESISTORS ARE 1/4W, 1%  
NOTES: UNLESS OTHERWISE SPECIFIED

**TOLERANCES**  
X $\pm$     XXX $\pm$   
XX $\pm$

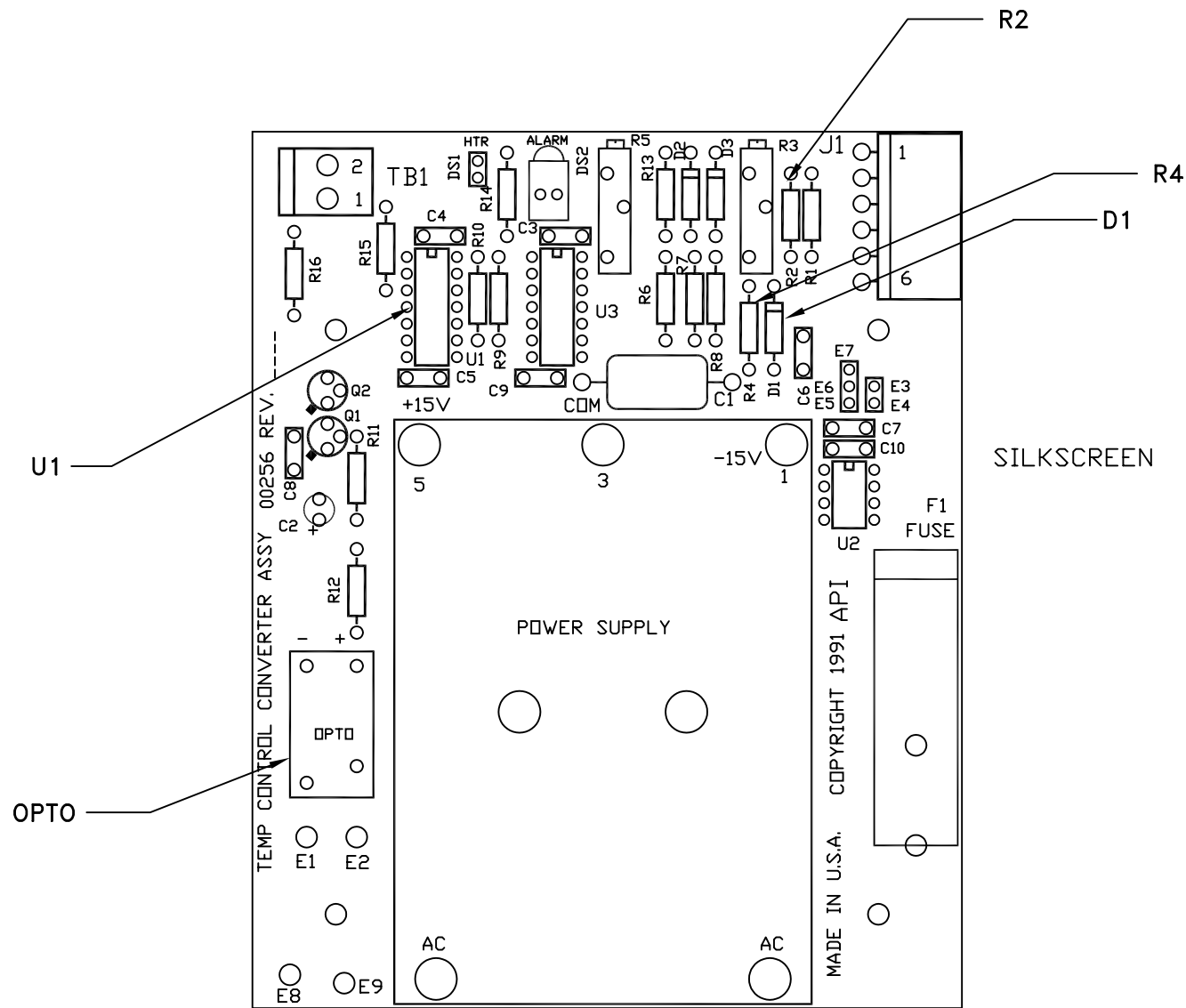
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DATE	ECR#	DESCRIPTION OF CHANGE	BY	
<b>API</b> ADVANCED POLLUTION INSTRUMENTATION, INC. SAN DIEGO, CA.				
APPROVALS	DATE	ELECTRICAL DIAGRAM, CONVERTER TEMP CONTROL		
DRAWN    pds	5.6.91			
CHECKED				
APPROVED		SIZE	DRAWING NO.    0025704	REVISION    J
DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1	


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	F	INITIAL RELEASE	7/22/94	KL
	G	RS 03 WAS RS 06	12/9/94	KL
	H	ADDED -05	8/3/95	RH
	I	DEL SHEET 1, SEE SHEET 2	3/11/99	RH

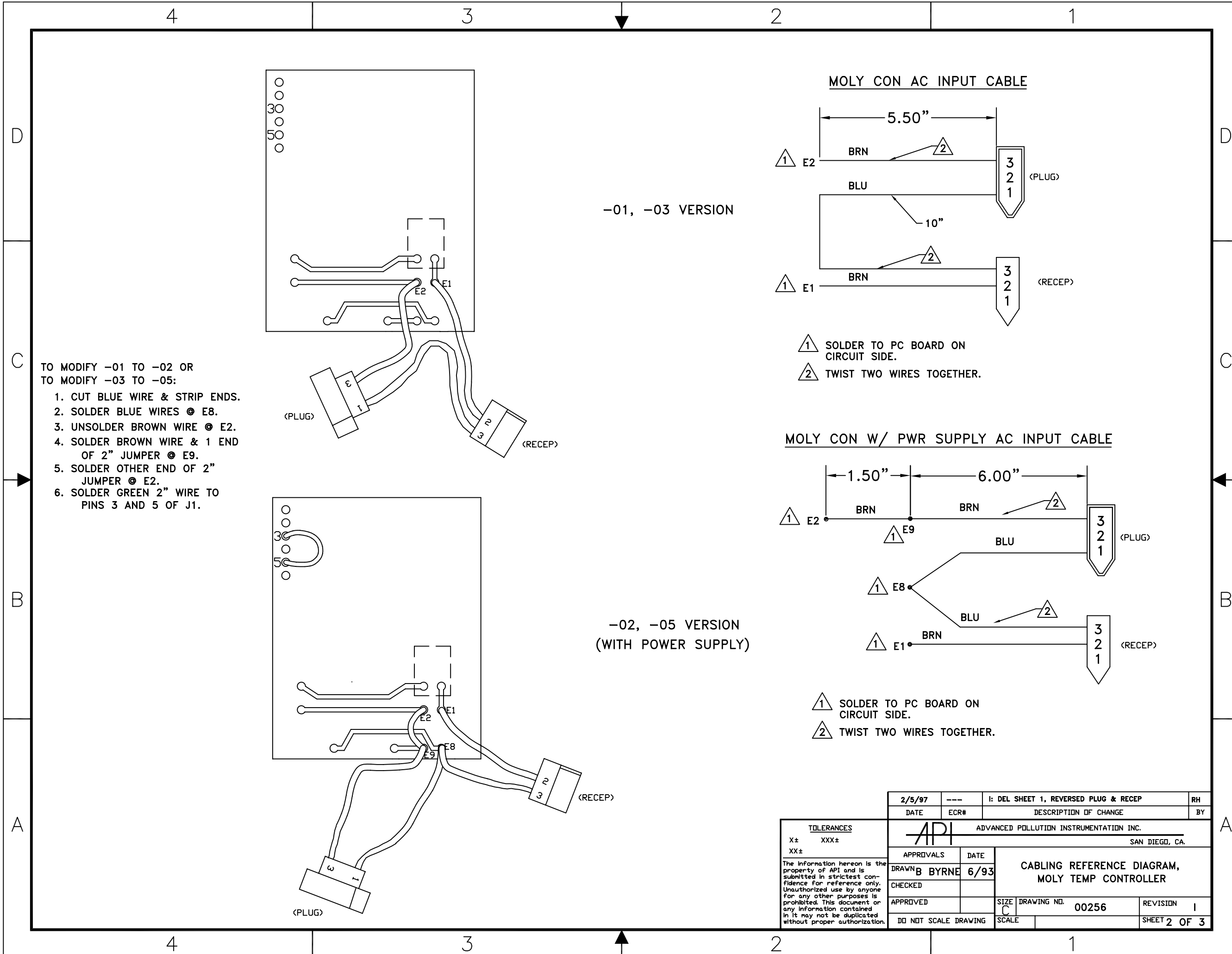
MODIFICATION NOTES:

REF DESIG	-01,-02	-03	-04	-05
D1	DD7	DD4	DD4	DD7
U1	IC5	IC72	IC72	IC72
OPTO	RL2	RL7	RL7	RL12
R2	RS3	RS176	RS3	RS3
R4	RS3	RS51	RS1	RS3



VERSION -01, -02, -03, -04, -05 SHOWN

QTY REQD	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± .03 ± .XXX ± .010		CONTRACT NO.	
MATERIAL FLGFN062C2/2A1A PER MIL-P-13949		APPROVALS	DATE
FINISH SEE NOTES		DRAWN pds	5.17.91
NEXT ASSY		CHECKED	
USED ON		ISSUED	
APPLICATION		 PRINTED CIRCUIT ASSY, TEMP CONVERTER	
DO NOT SCALE DRAWING		B FSCM NO.	DWG. NO. 00256 REV. I
		SCALE 1:1	SHEET 1 OF 3

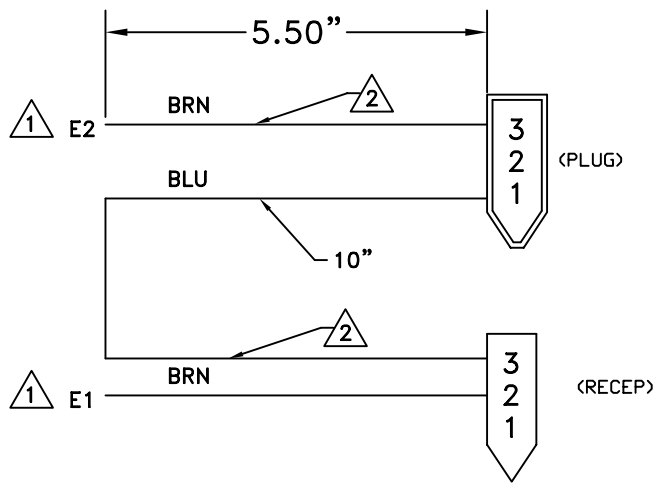


- TO MODIFY -01 TO -02 OR  
TO MODIFY -03 TO -05:
1. CUT BLUE WIRE & STRIP ENDS.
  2. SOLDER BLUE WIRES @ E8.
  3. UNSOLDER BROWN WIRE @ E2.
  4. SOLDER BROWN WIRE & 1 END OF 2" JUMPER @ E9.
  5. SOLDER OTHER END OF 2" JUMPER @ E2.
  6. SOLDER GREEN 2" WIRE TO PINS 3 AND 5 OF J1.

-01, -03 VERSION

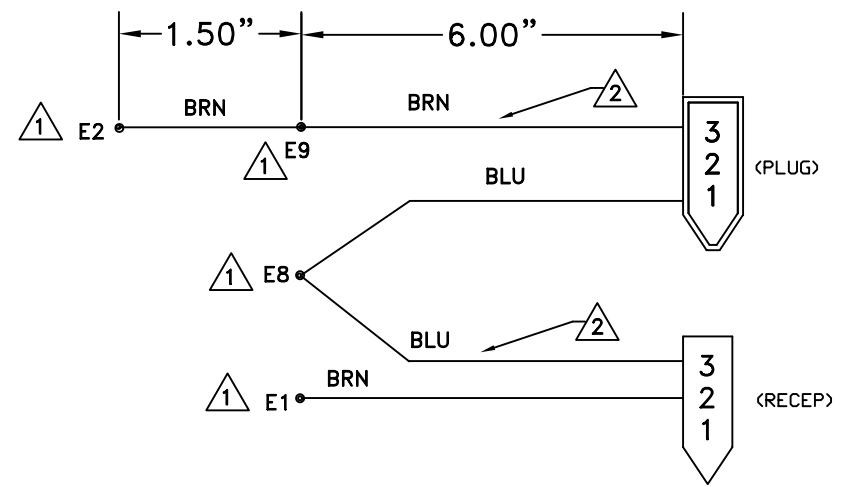
-02, -05 VERSION  
(WITH POWER SUPPLY)

MOLY CON AC INPUT CABLE



- 1 SOLDER TO PC BOARD ON CIRCUIT SIDE.
- 2 TWIST TWO WIRES TOGETHER.

MOLY CON W/ PWR SUPPLY AC INPUT CABLE



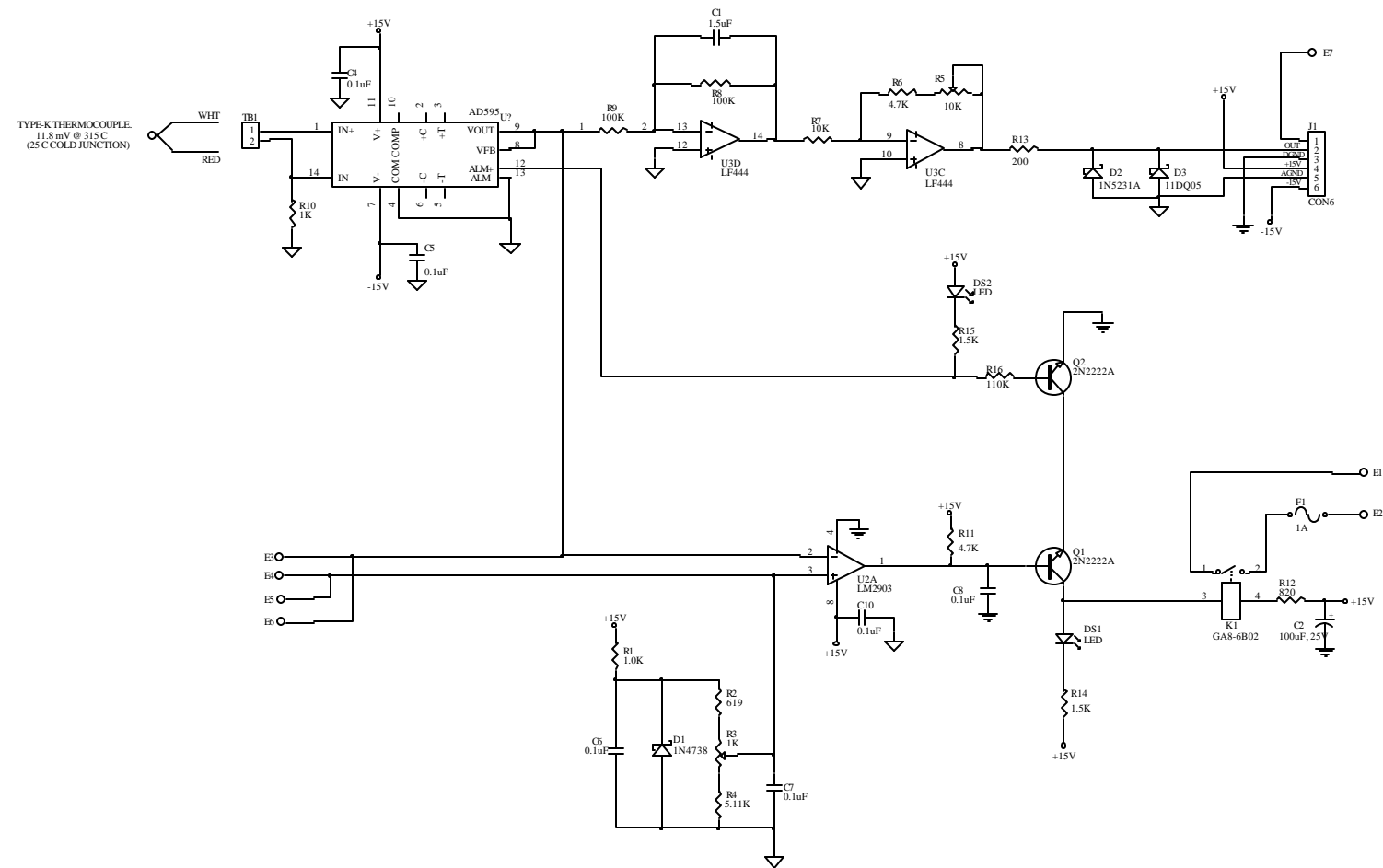
- 1 SOLDER TO PC BOARD ON CIRCUIT SIDE.
- 2 TWIST TWO WIRES TOGETHER.

2/5/97	---	i: DEL SHEET 1, REVERSED PLUG & RECP		RH
DATE	ECR#	DESCRIPTION OF CHANGE		BY
 ADVANCED POLLUTION INSTRUMENTATION INC. SAN DIEGO, CA.				
APPROVALS		DATE	<b>CABLING REFERENCE DIAGRAM, MOLY TEMP CONTROLLER</b>	
DRAWN BY		DATE		
CHECKED				
APPROVED			SIZE	DRAWING NO.
DO NOT SCALE DRAWING			C	00256
			REVISION	1
			SHEET 2 OF 3	

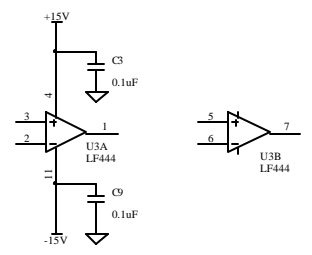
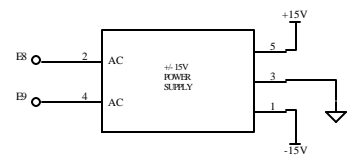
**TOLERANCES**  
X±    XXX±  
XX±

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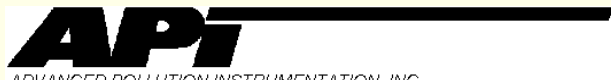
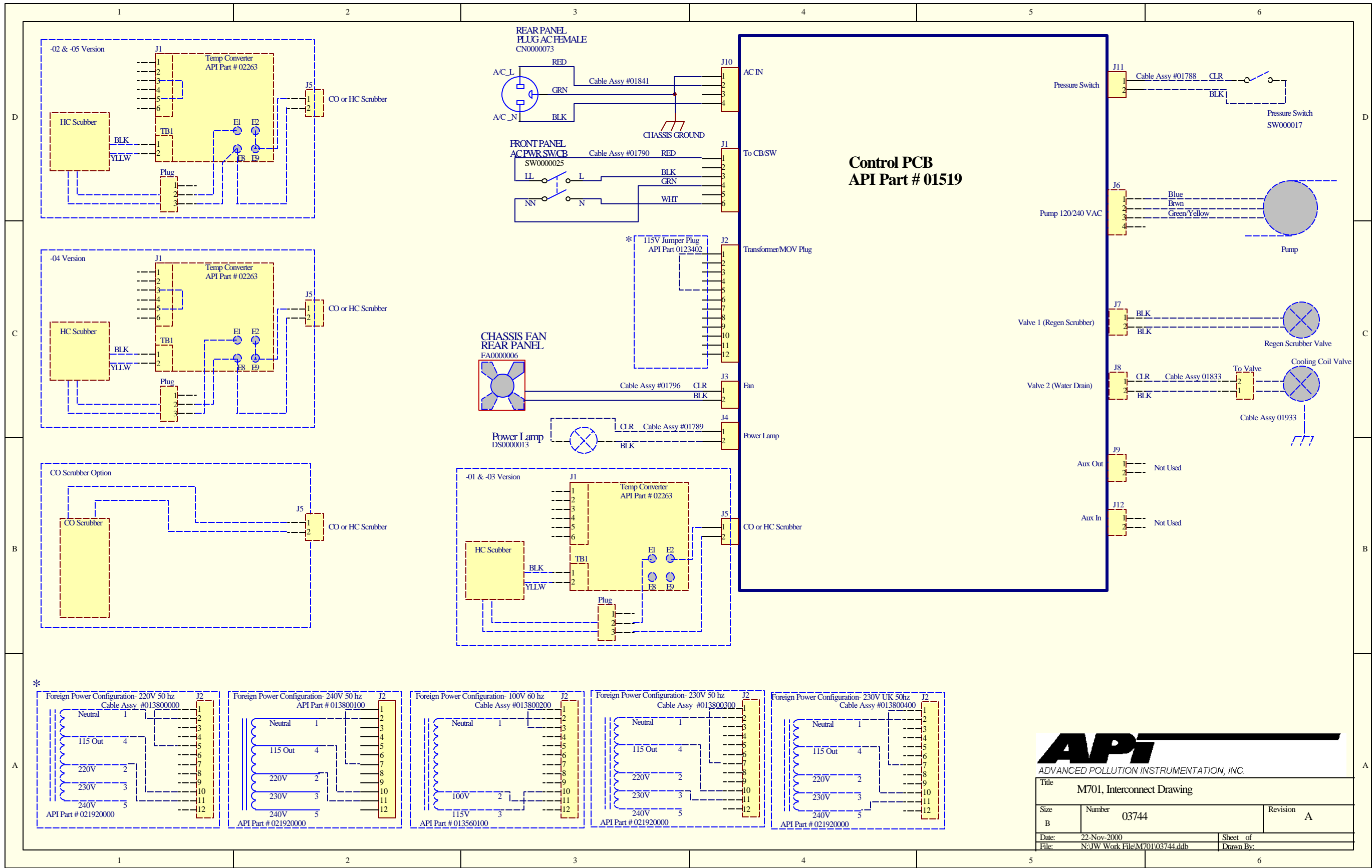
NOTES:  
 1. RESISTORS ARE 1/4W, 1%  
 2. RESISTANCE IS IN OHMS  
 3. CAPACITANCE IS IN MICROFARADS  
 UNLESS OTHERWISE SPECIFIED



SPARES

Part #	U1	TC Type	F1	Mv @ TB1
0226301	AD594AQ	J	1 Amp	15.8 +/- 1
0226302	AD594AQ	J	1 Amp	15.8 +/- 1
0226303	AD595AQ	K	1 Amp	28.1 +/- 2

APPROVALS		DATE	PCB, Moly Temp Control, CE	
DRAWN			SEE DRAWING NO.	REVISION
CHECKED			C 02264	B
APPROVED			LAST MOD. 29-Jan-2001	SHEET 1 of 1



ADVANCED POLLUTION INSTRUMENTATION, INC.

Title <b>M701, Interconnect Drawing</b>		
Size B	Number 03744	Revision A
Date: 22-Nov-2000	Sheet of	
File: N:\JW Work File\M701\03744.ddb	Drawn By:	