

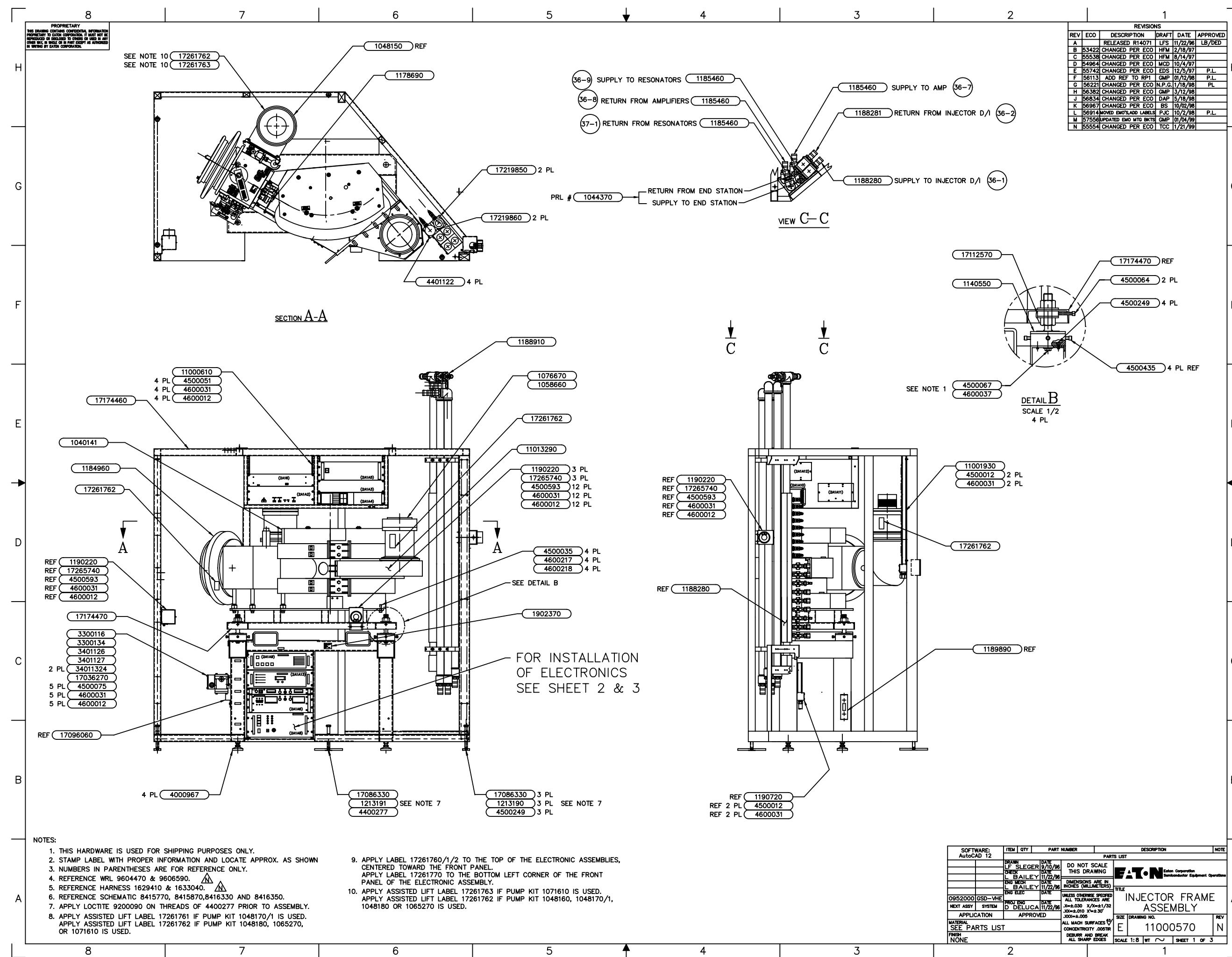
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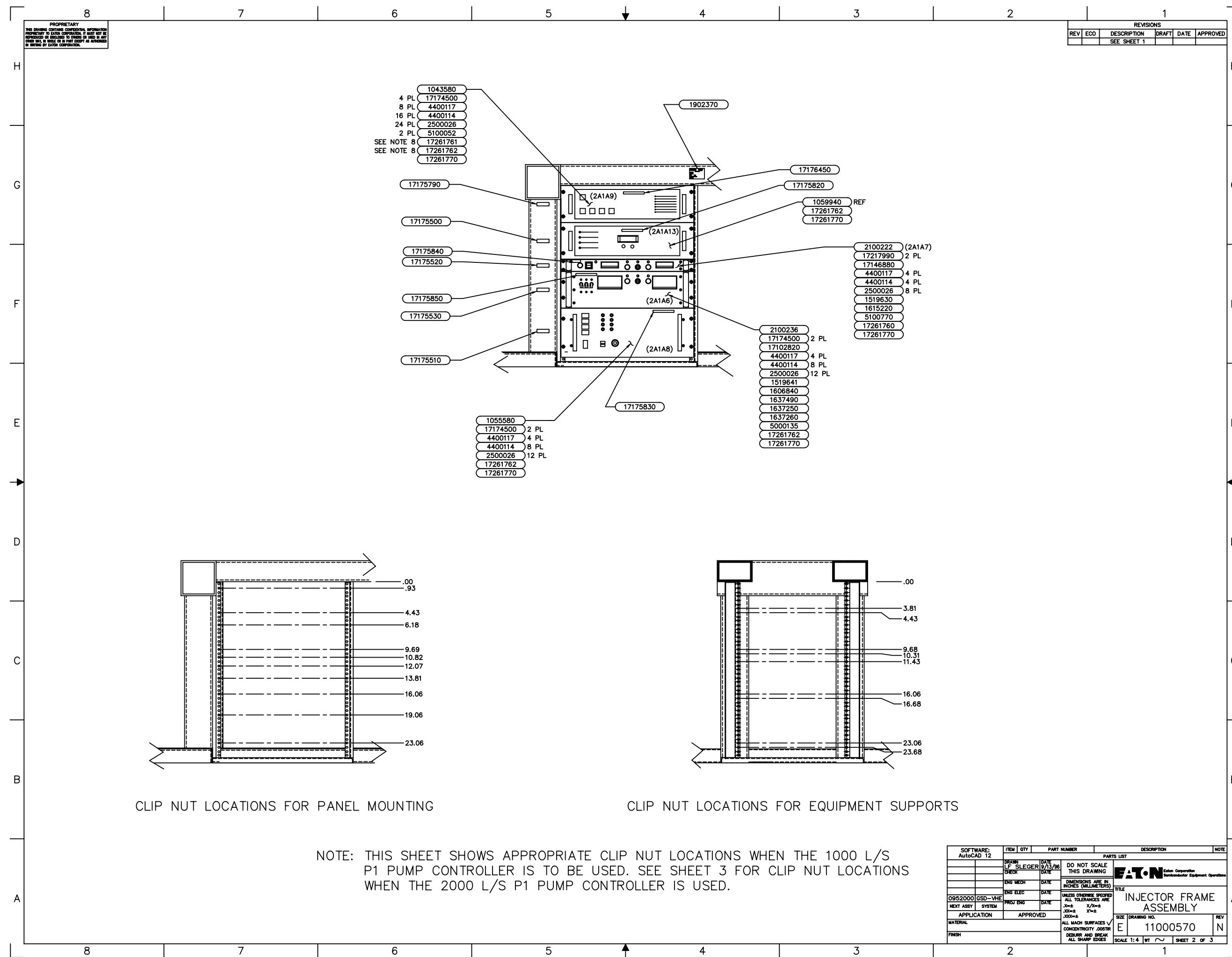
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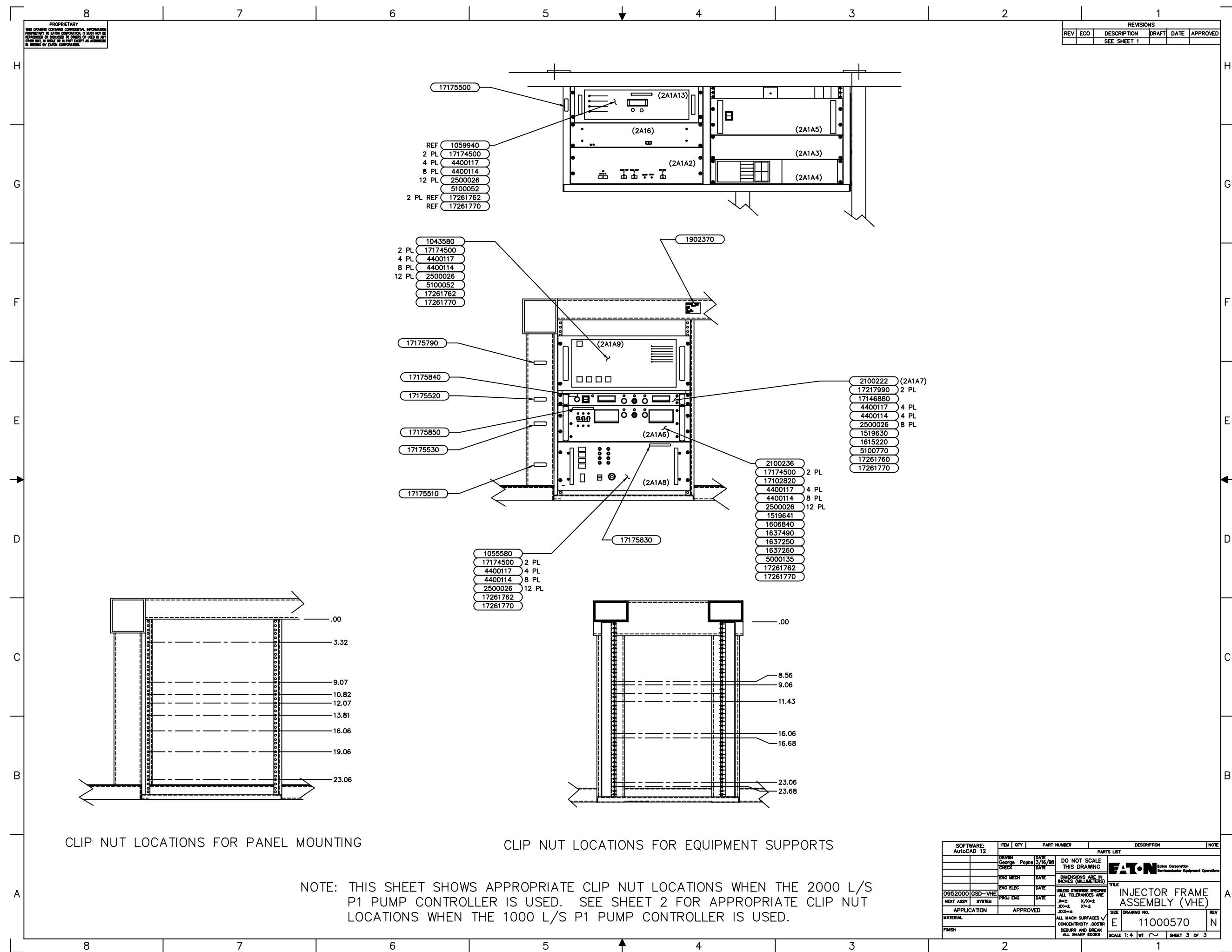
# **Injector Frame Assembly - 11000570**



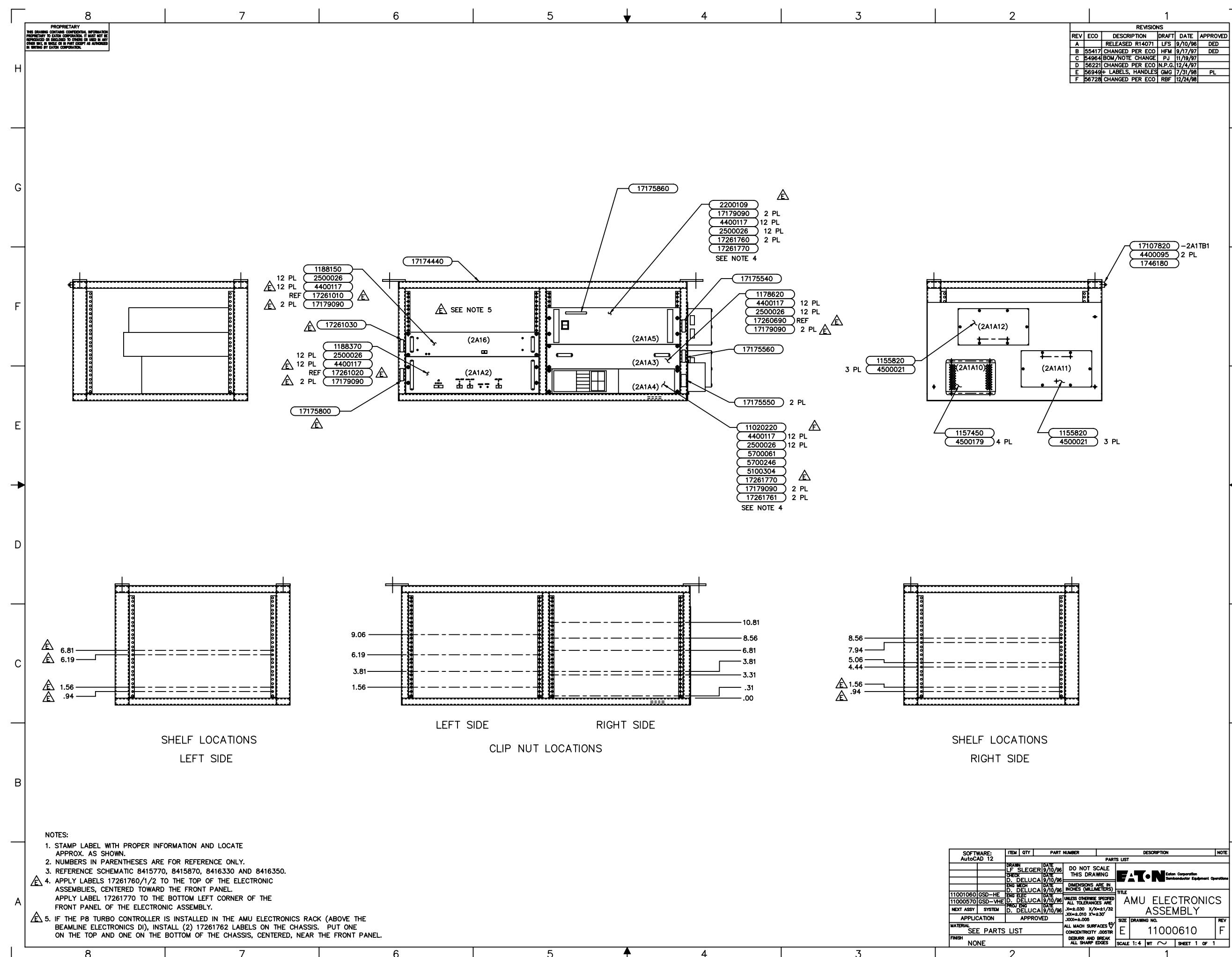
# **Injector Frame Assembly - 11000570**



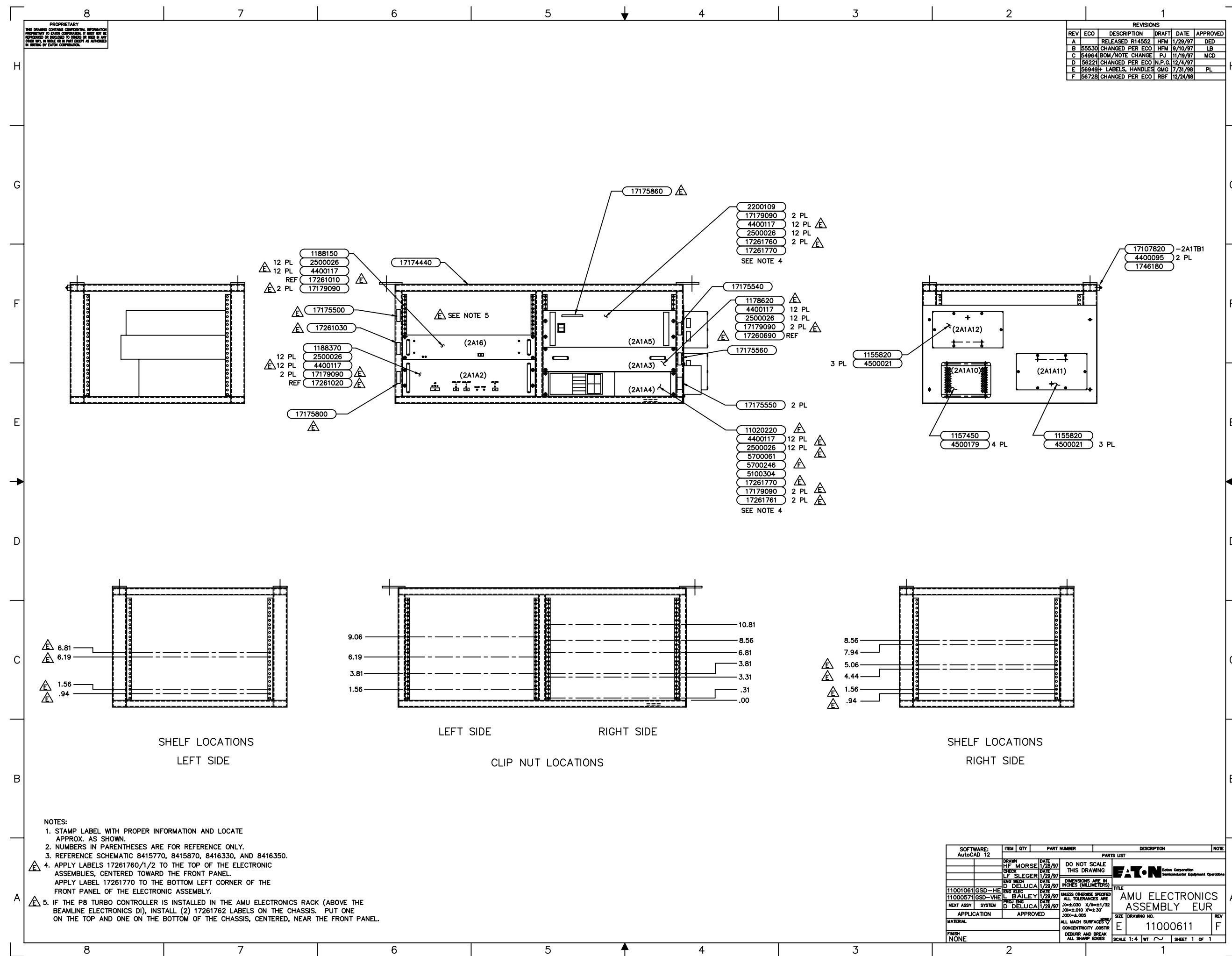
## Injector Frame Assembly - 11000570



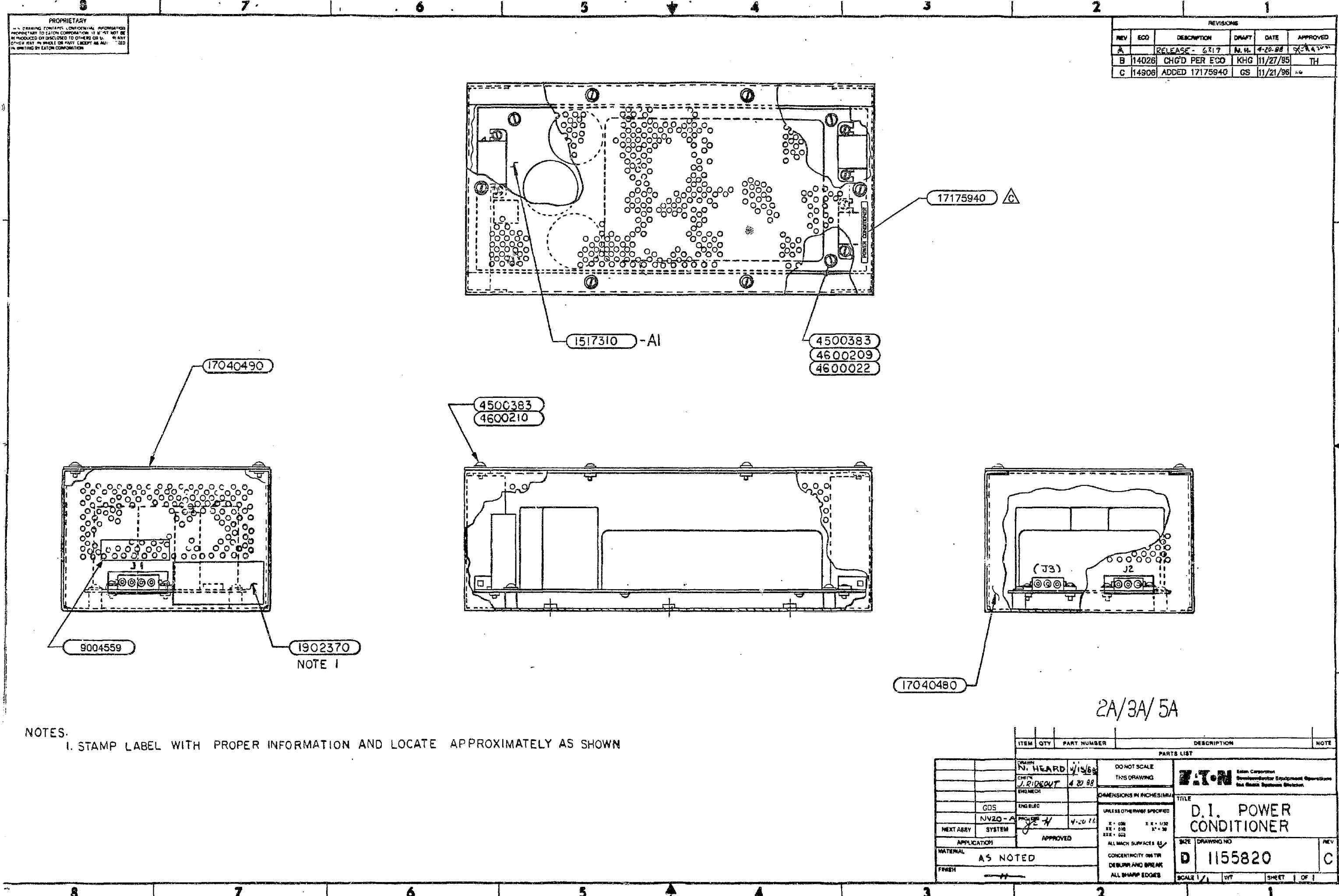
**AMU Electronics Assembly - 11000610**



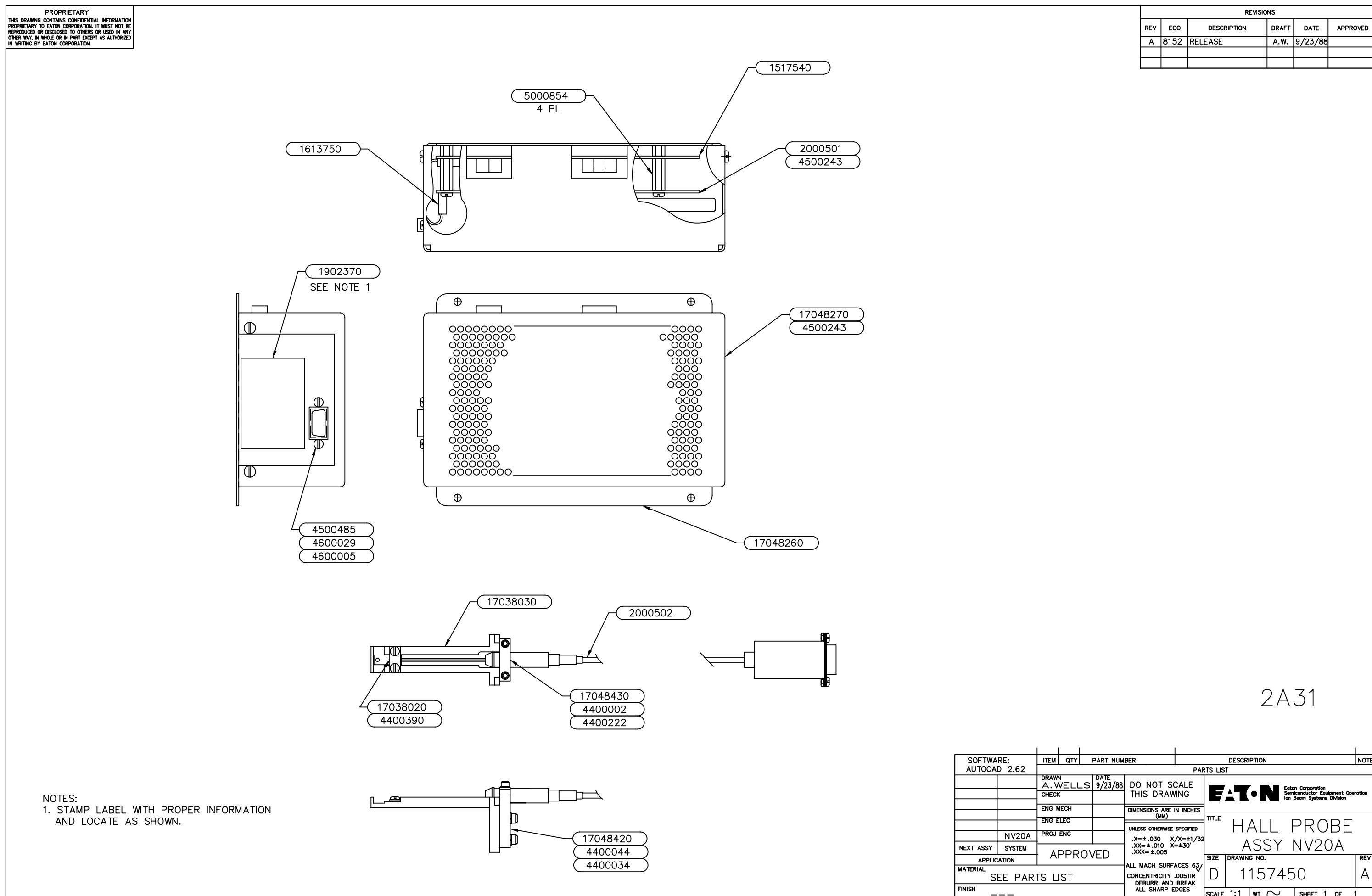
## AMU Electronics Assembly EUR - 11000611



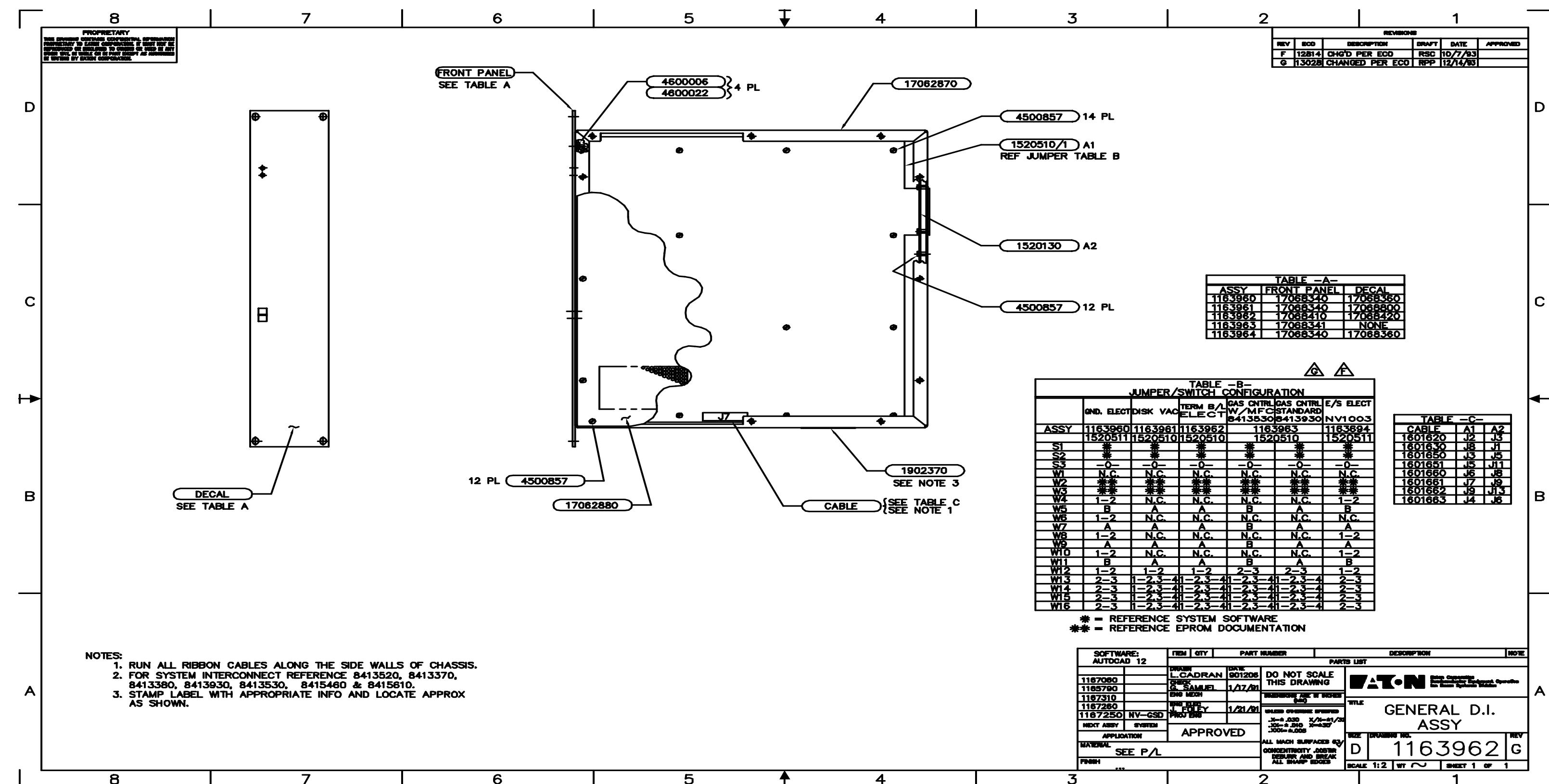
## DI Power Conditioner - 1155820



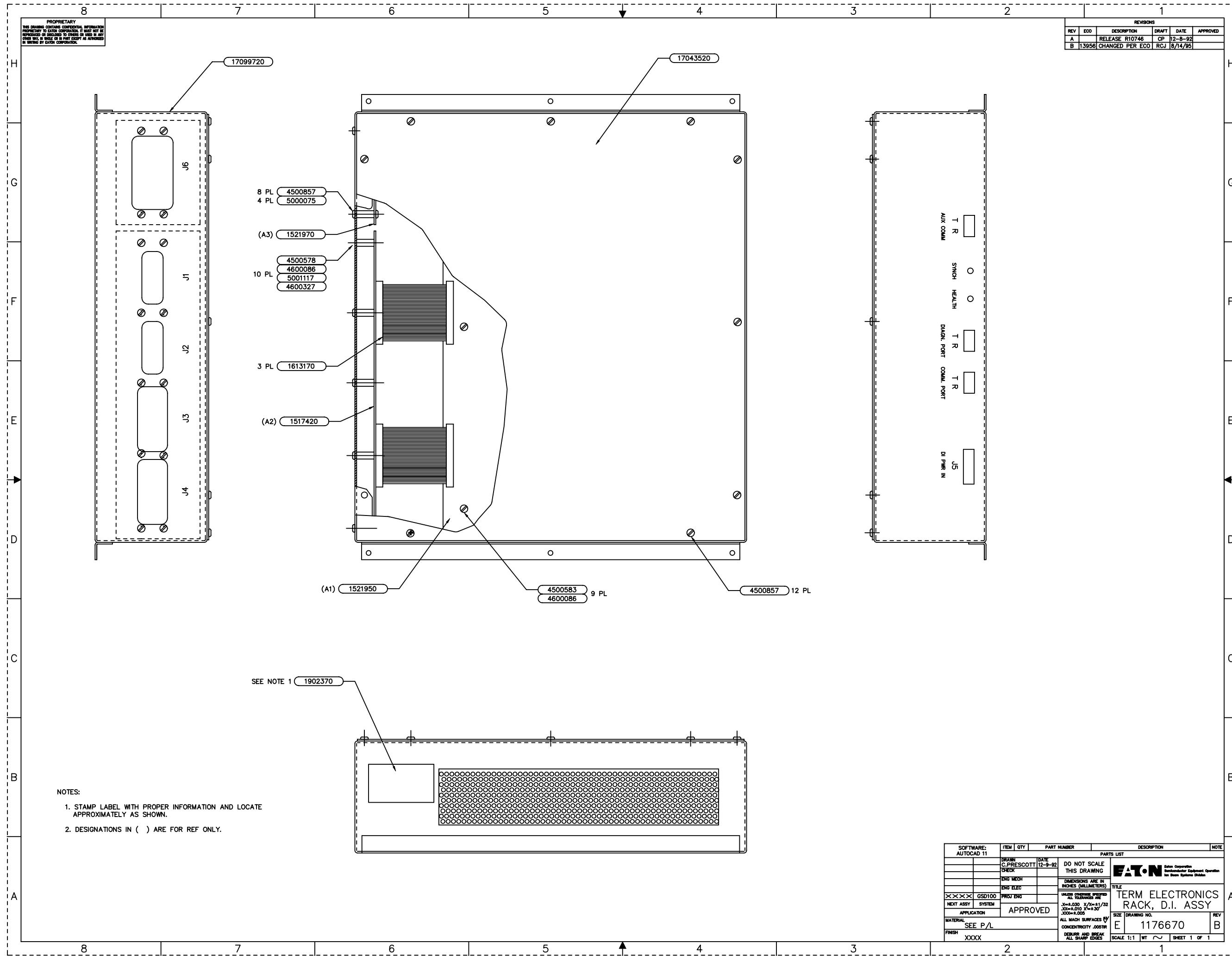
## Hall Probe Assembly NV20A - 1157450



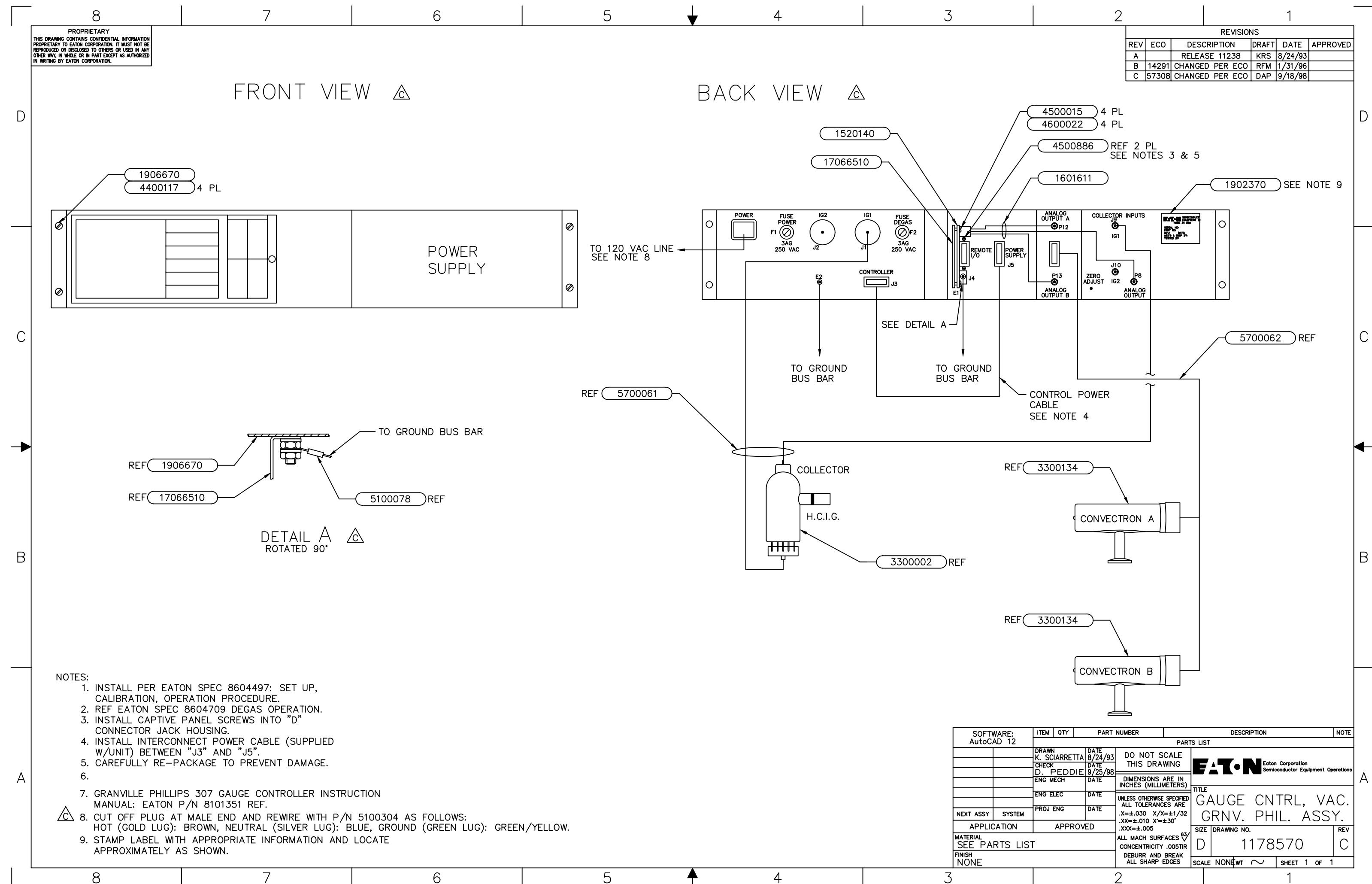
**General D.I. Assembly - 1163962**



# Term Electronics Pack. D.I. Assy. - 1176670



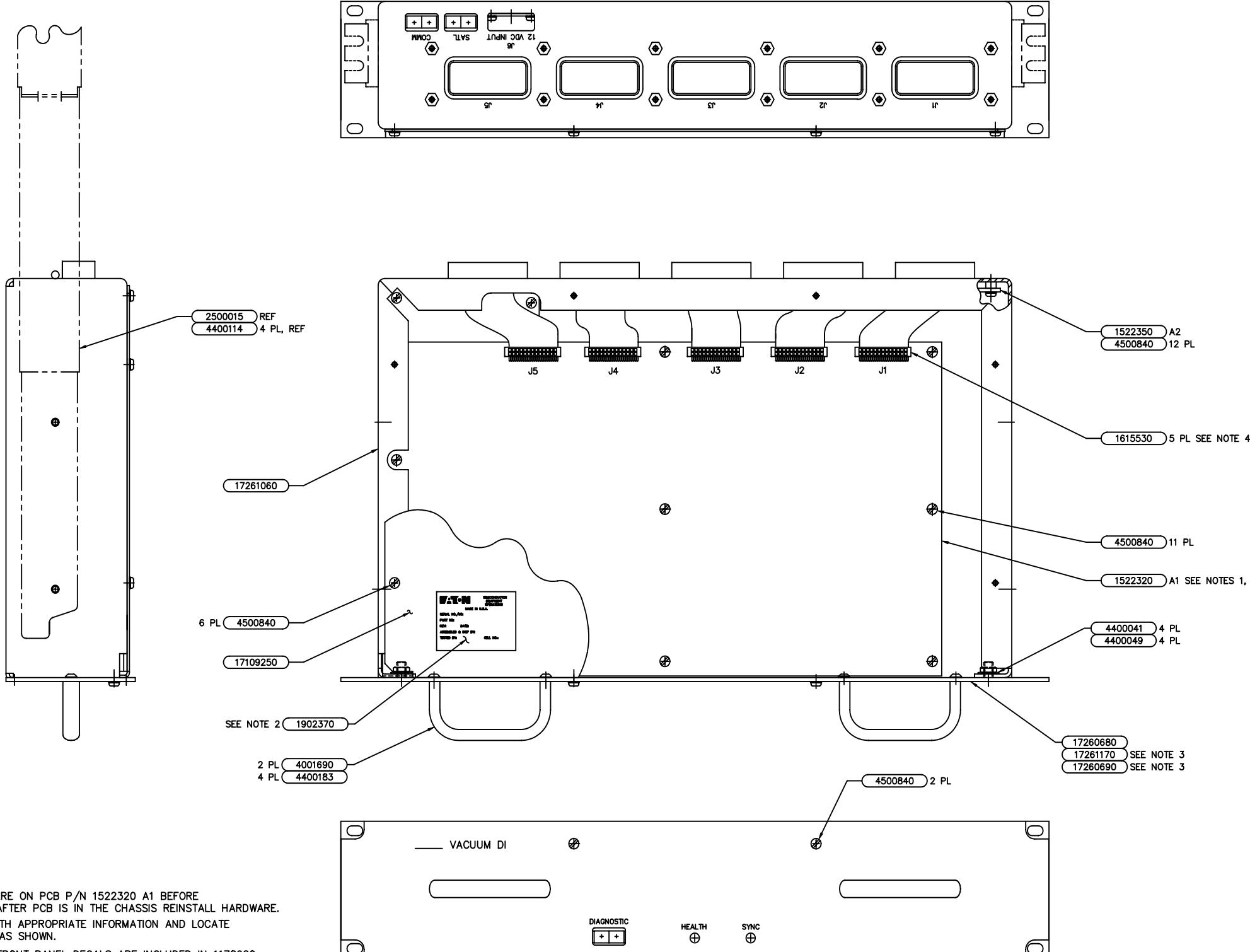
# **Gauge Controll Vac. Grnv. Phil. Assy. - 1178570**



## Assembly Vacuum D.I. - 1178620

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REV	ECO	DESCRIPTION	DRAFT	DATE	APPROVED
A	R11413	LJC	10/25/93		
B	14906	CHANGE PER ECO	SKT	12/10/96	
C	56322	CHANGED ECO	NG	1/6/98	
D	56949	CHASSIS/HANDLES	SCM	12/17/96	PL
E	57673	ADD TO NOTE 5	SCM	3/9/98	PL



## NOTES:

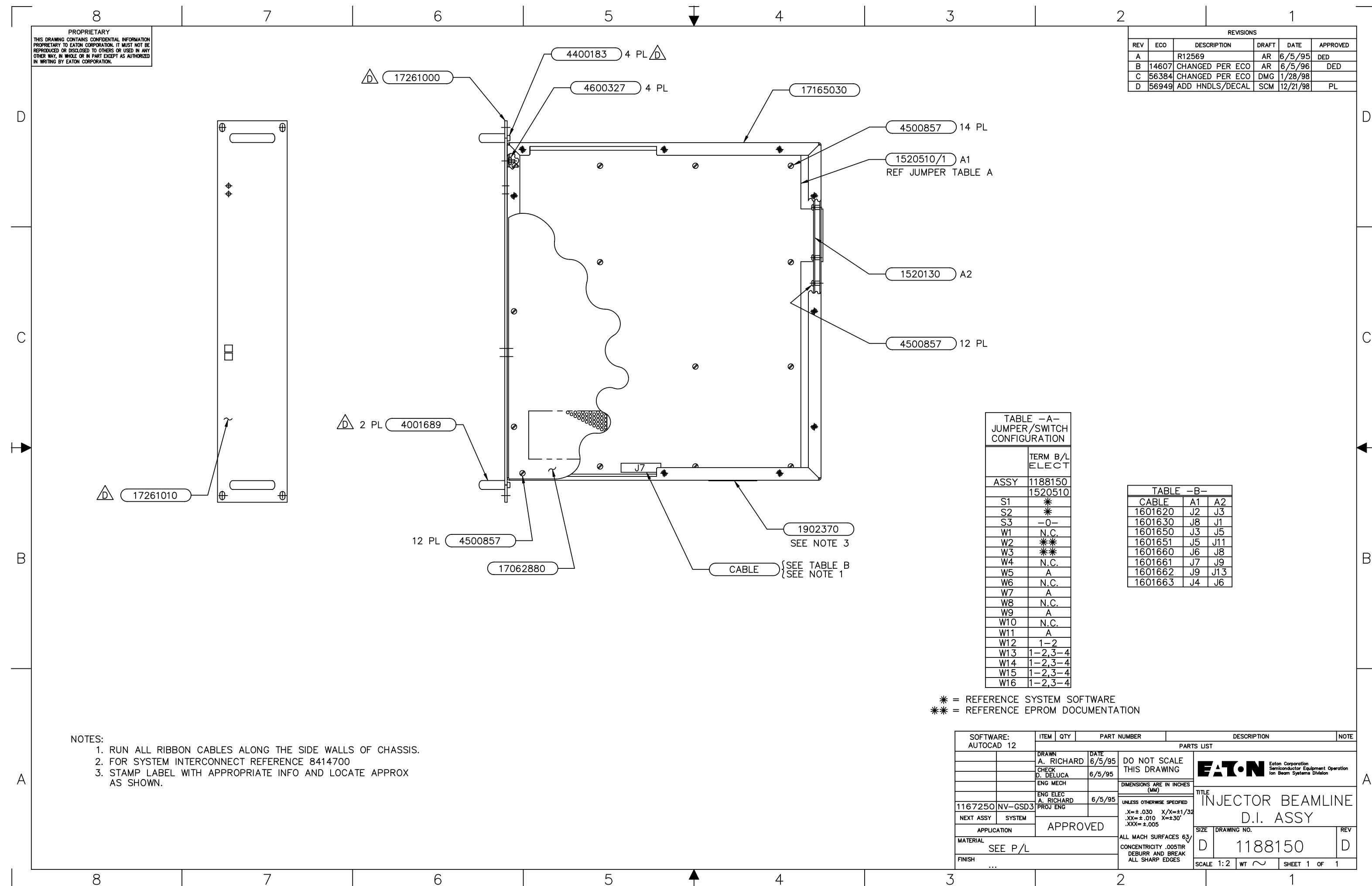
1. REMOVE HARDWARE ON PCB P/N 1522320 A1 BEFORE INSTALLING J6, AFTER PCB IS IN THE CHASSIS REINSTALL HARDWARE.
2. STAMP LABEL WITH APPROPRIATE INFORMATION AND LOCATE APPROXIMATELY AS SHOWN.
3. TWO TYPES OF FRONT PANEL DECALS ARE INCLUDED IN 1178620. USE THE TABLE BELOW TO DETERMINE WHICH DECAL TO USE AT TIME OF BUILD. RETURN UNUSED DECAL TO STOCK.

BUILT FOR	USE FRONT DECAL
11000610/1 - HE/VHE AMU	17260690
11005430/1 - HE3 AMU	
1178500/1 - HE LINAC	
1192410/1 - VHE LINAC	17261170
11005120/1 - HE3 LINAC	

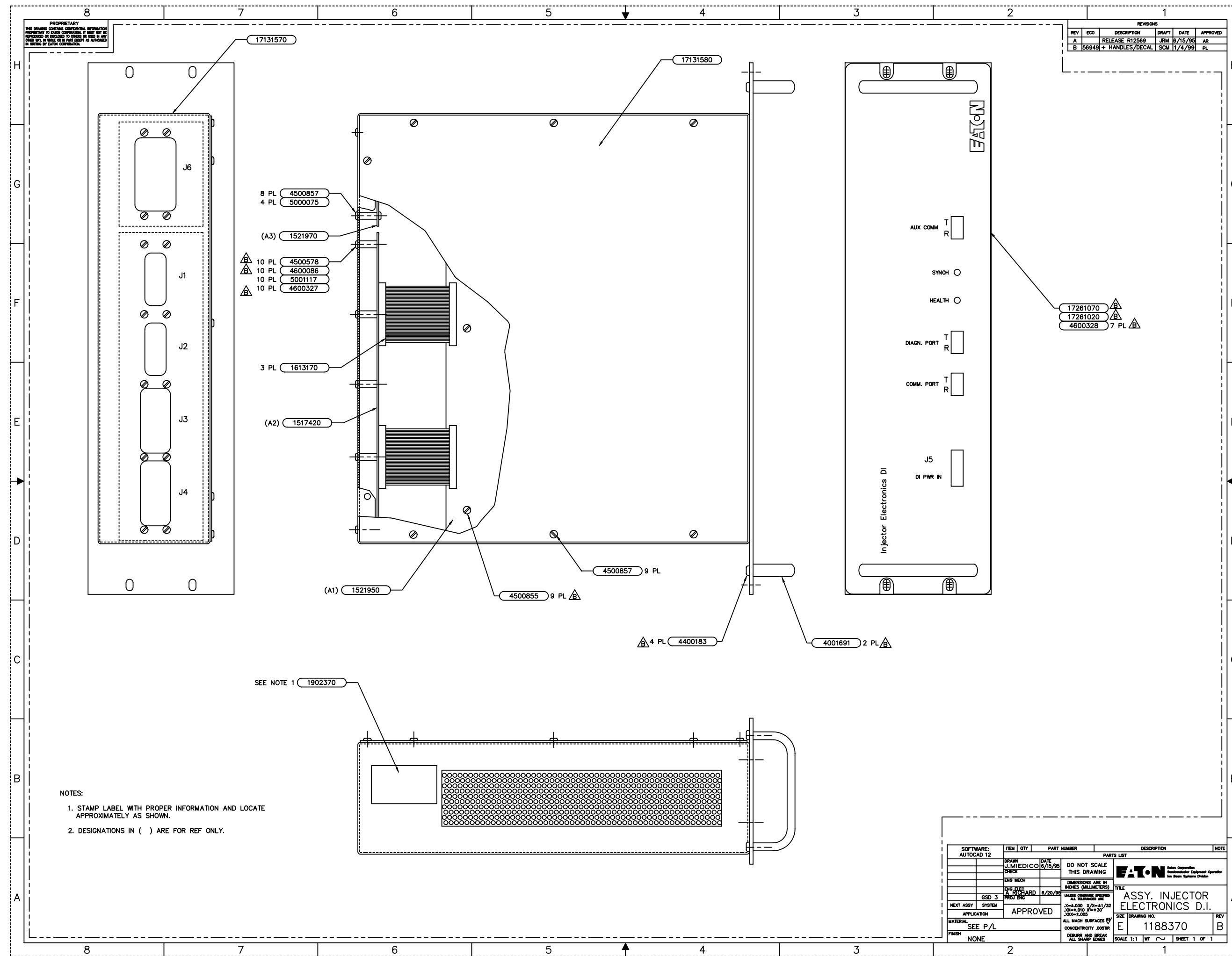
4. COLOR CODE BROWN IS PIN 1, GRAY WITH RED STRIPE IS PIN 1.
5. SET SWITCHES AS FOLLOWS: S1-4, S2-2, S3-CLOSED (LINAC).  
SET SWITCHES AS FOLLOWS: S1-4, S2-1, S3-CLOSED (INJECTOR).

SOFTWARE: AutoCAD 12		ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
		DRAWN		CADRAN	DATE 10/25/93	PARTS LIST
		REFRED			DO NOT SCALE THIS DRAWING	
		ENG MECH		S. MACINNIS	12/17/96	
		ENG ELEC		P. LOOMIS	12/17/96	
		APPLICATION			UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE X=0.01 X=.010 X=.001 X=.001 ALL MACHINES 1.6 MICRONS MAX CONCENTRICITY 0.001 IN DEBURR AND BREAK ALL SHARP EDGES	
		SEE PARTS LIST			SCALE 1:1 FT ~	
		FINISH			SHEET 1 OF 1	

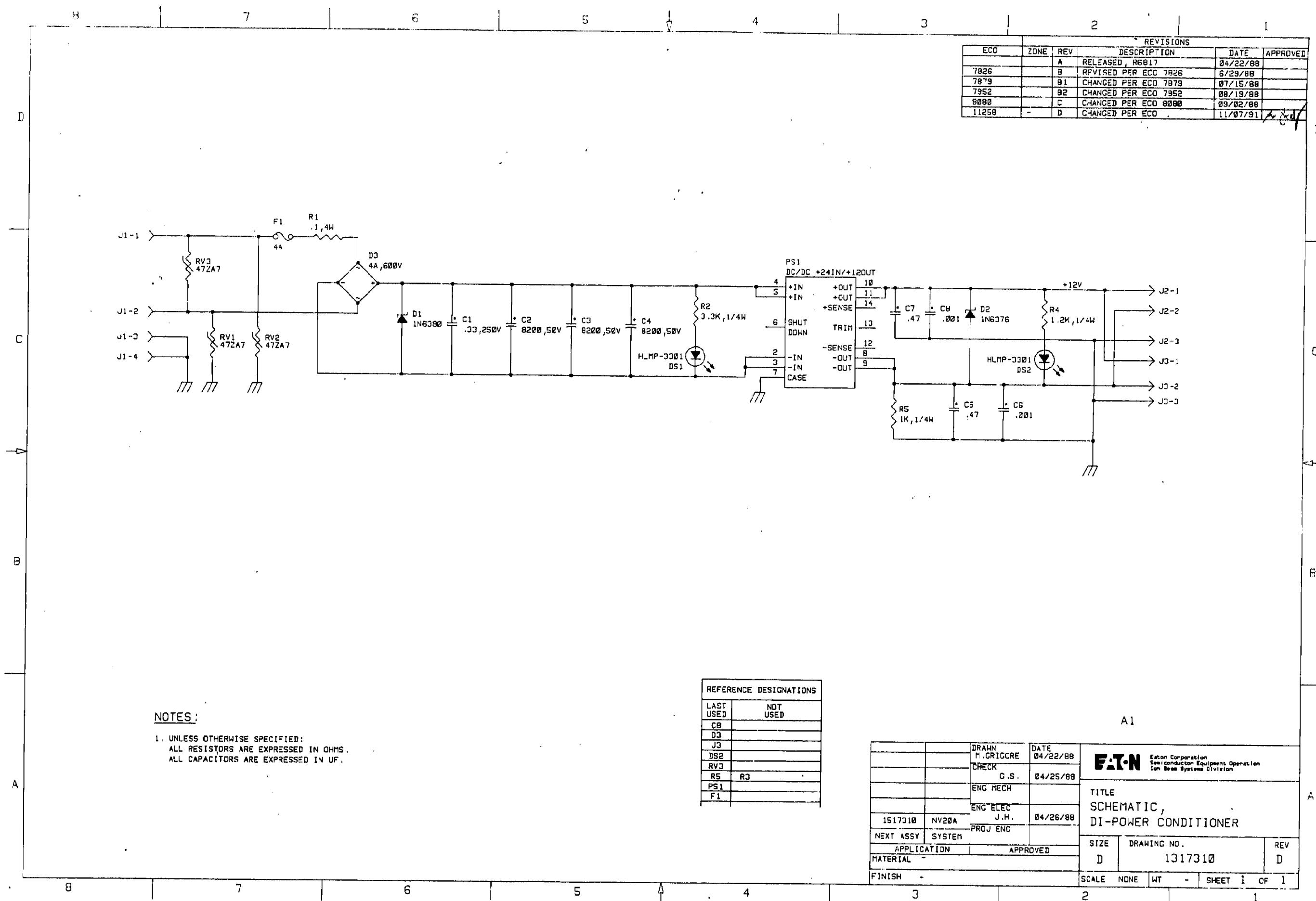
## Injector Beamlne D.I. Assy 1188150



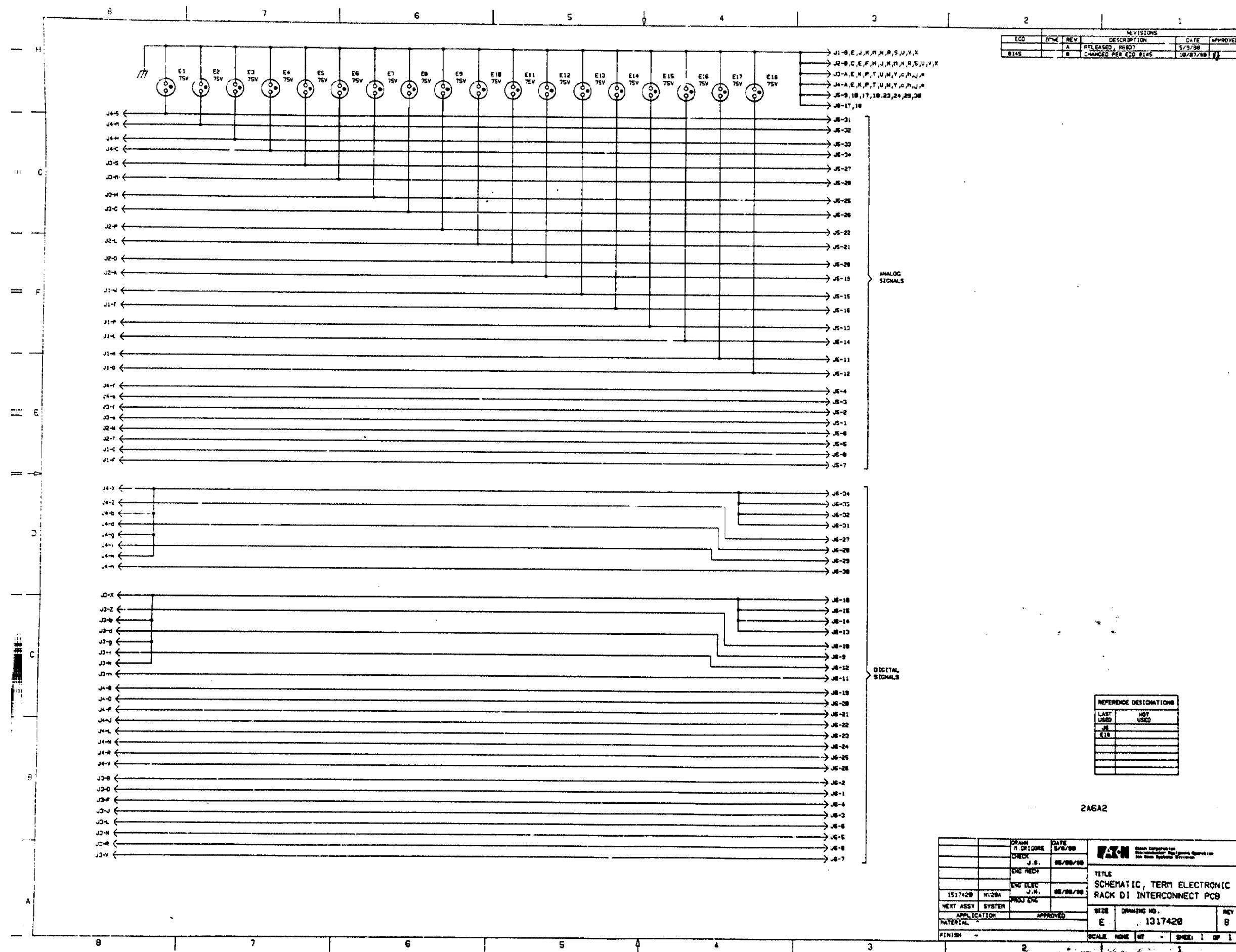
## Assembly Injector Electronics D.I. - 1188370



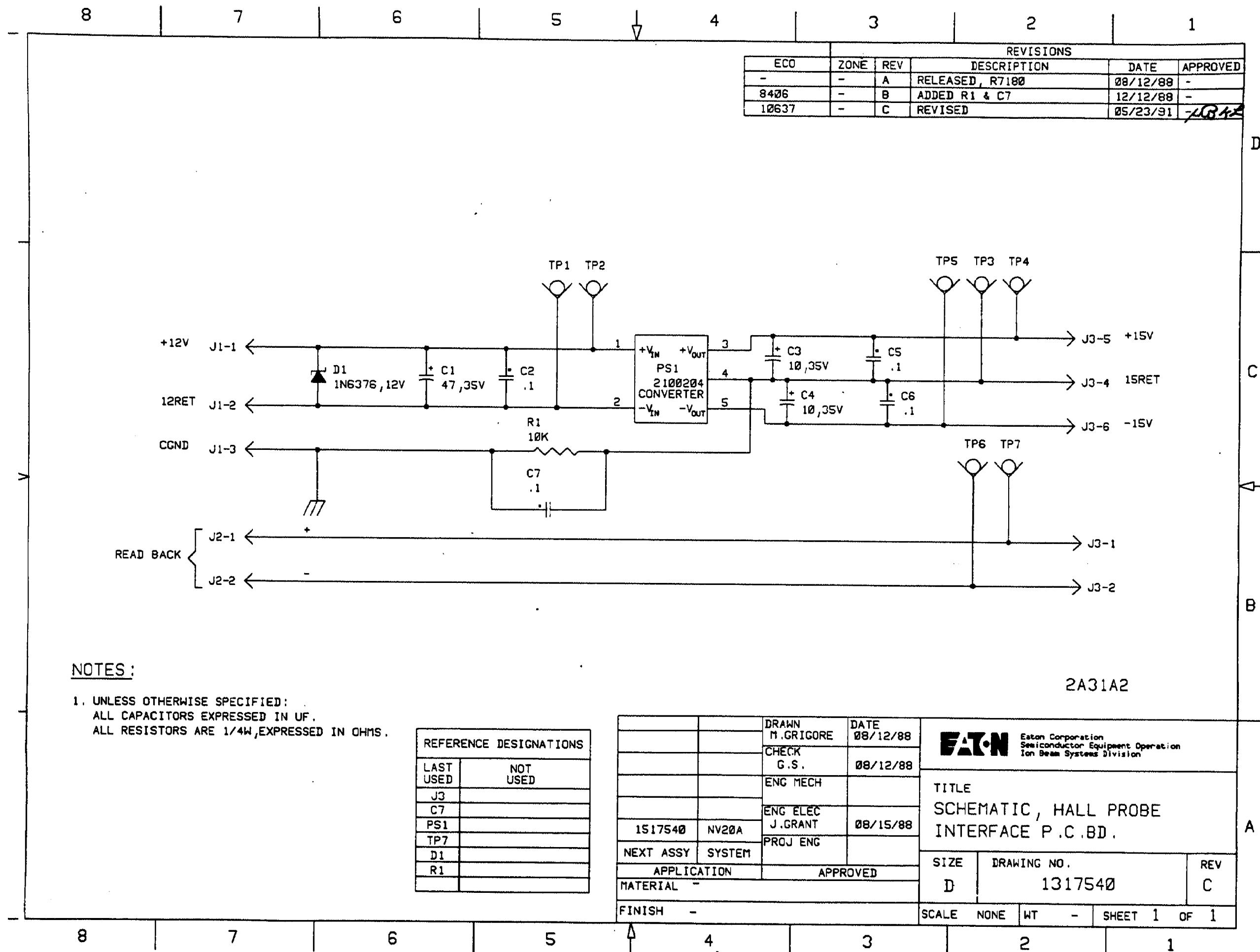
## Schematic DI Power Conditioner-1317310



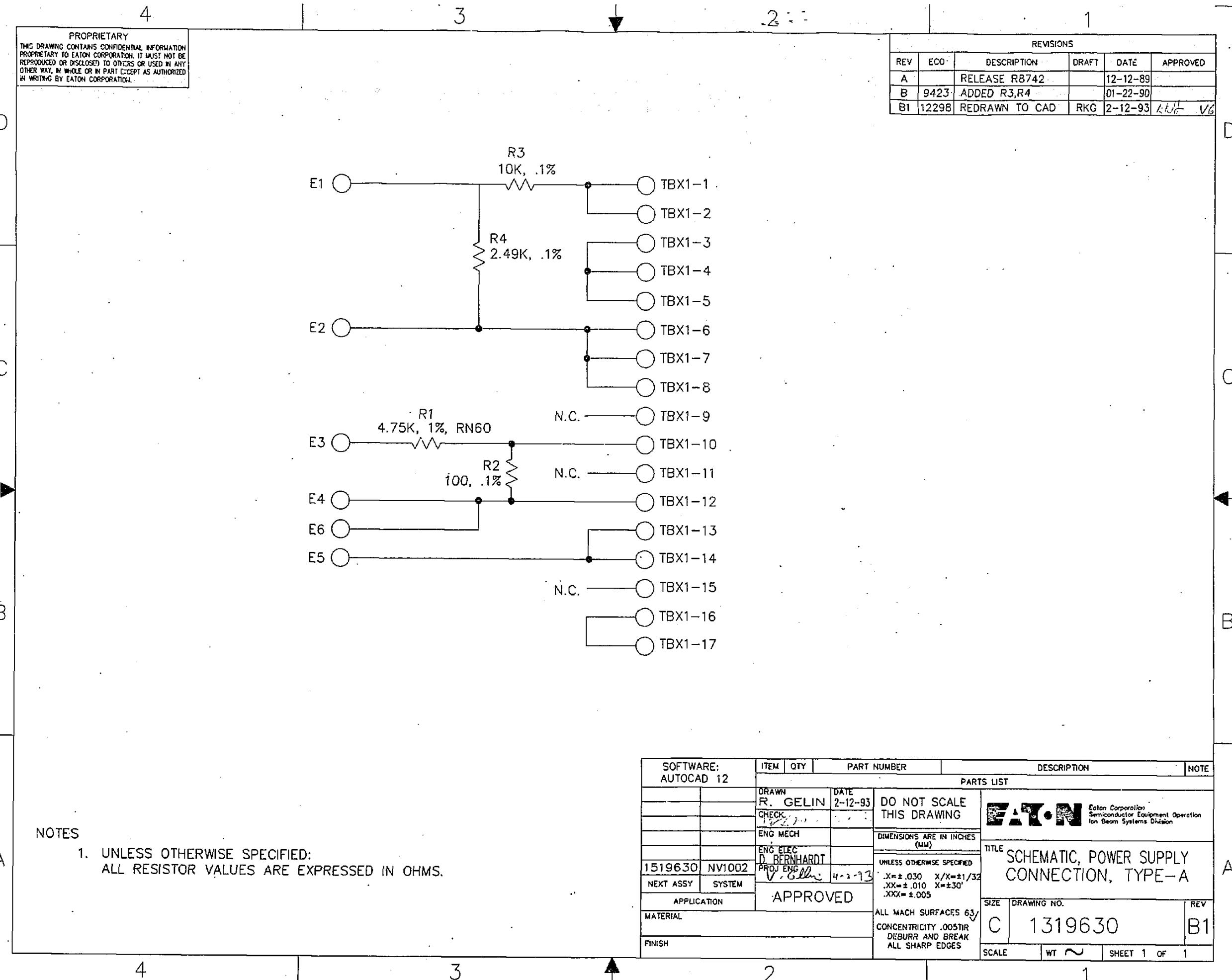
# Schematic Electronics Rack Interconnect PCB - 1317420



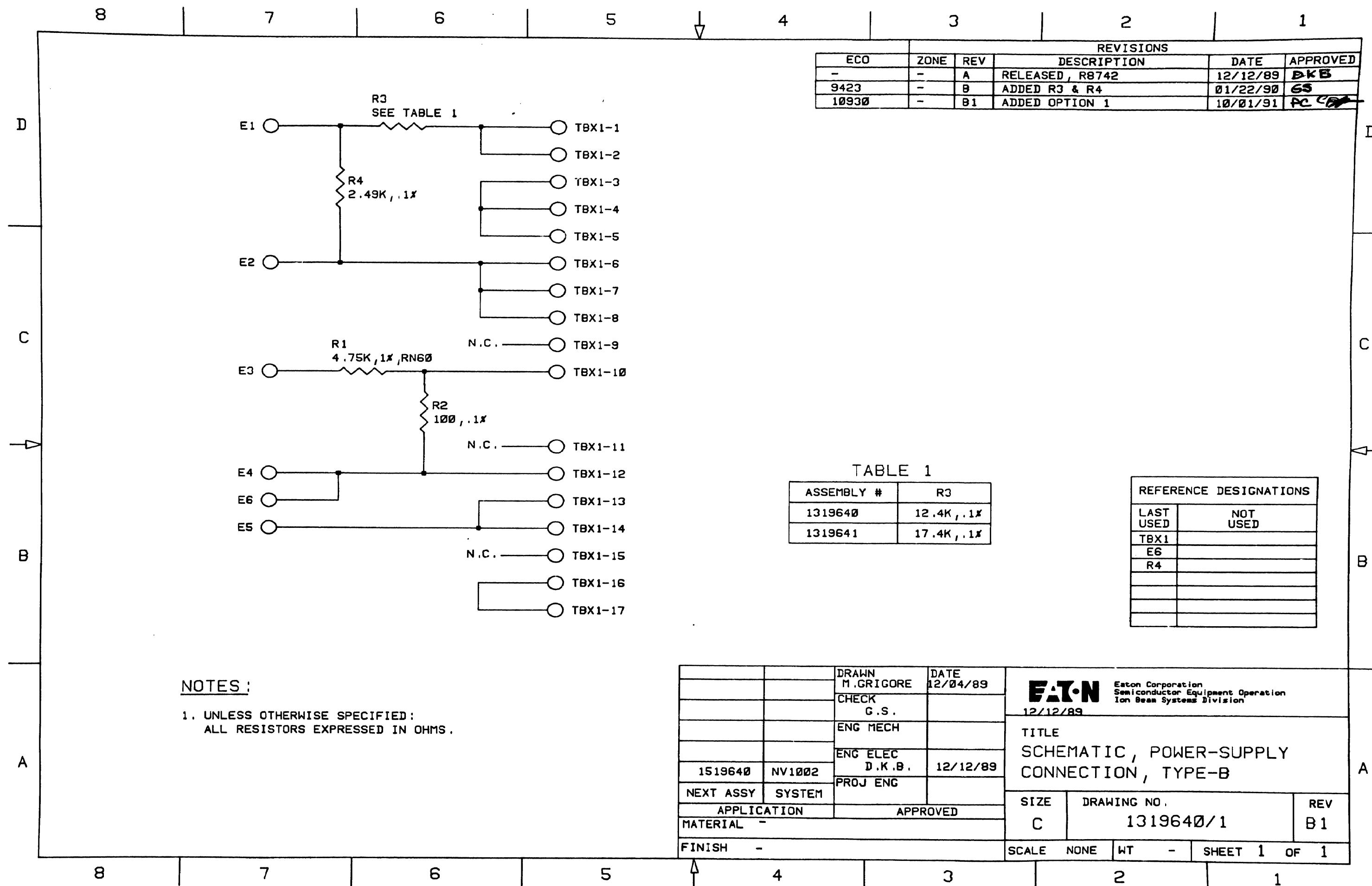
# Schematic Hall Probe Interface-1317540



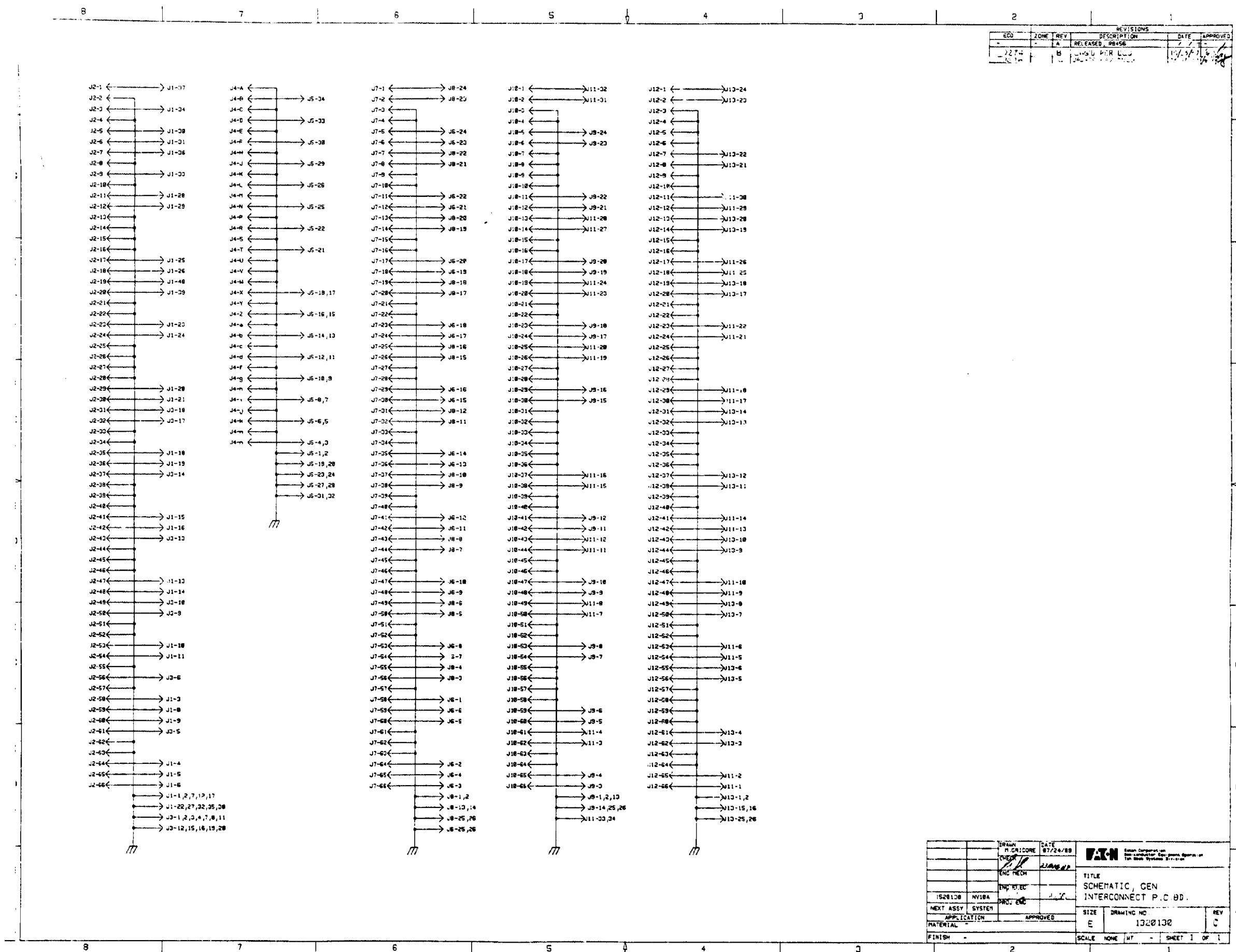
# Schematic Power Supply Connection Type A - 1319630



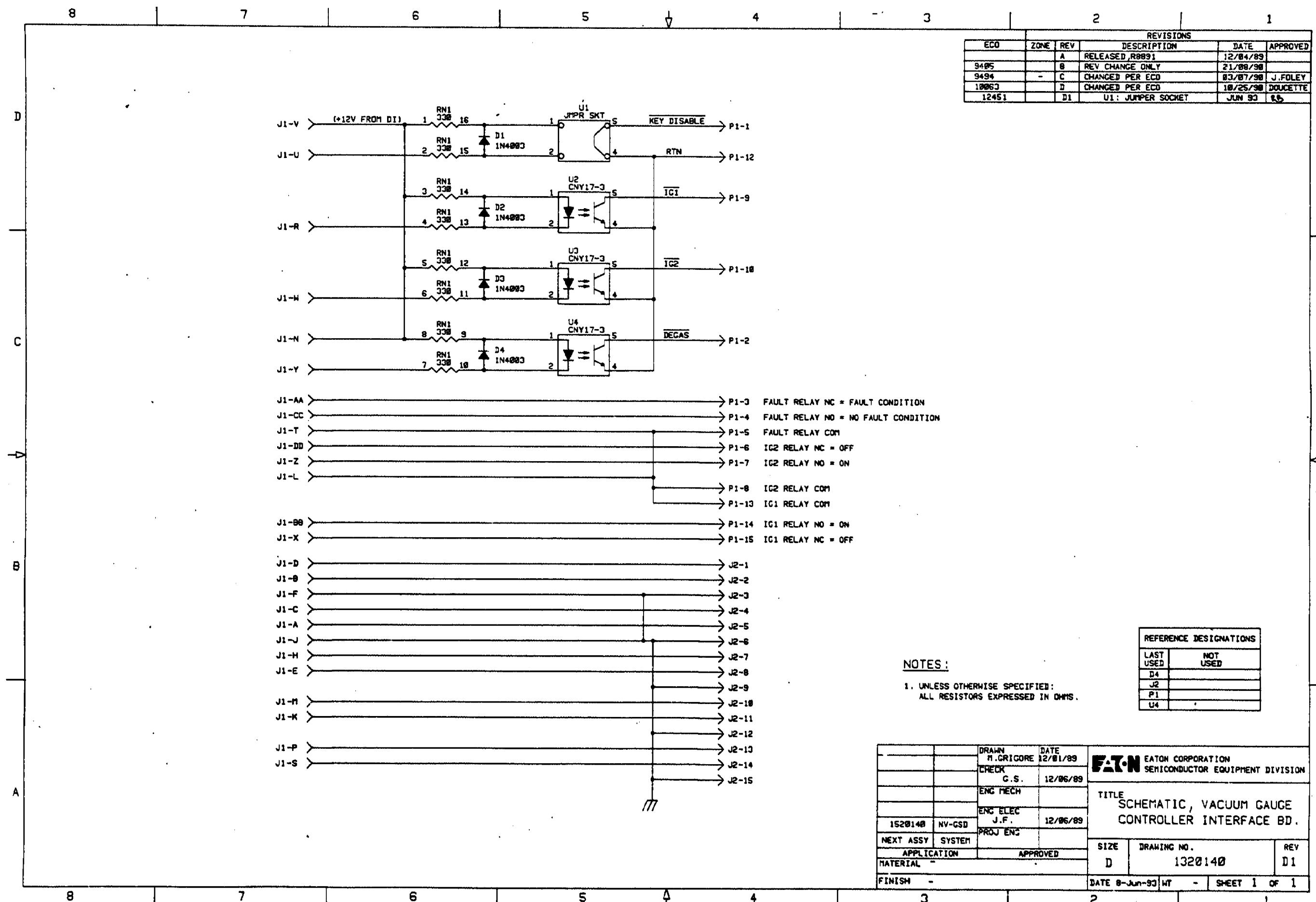
# Schematic Power Supply Connection Type-B - 1319640



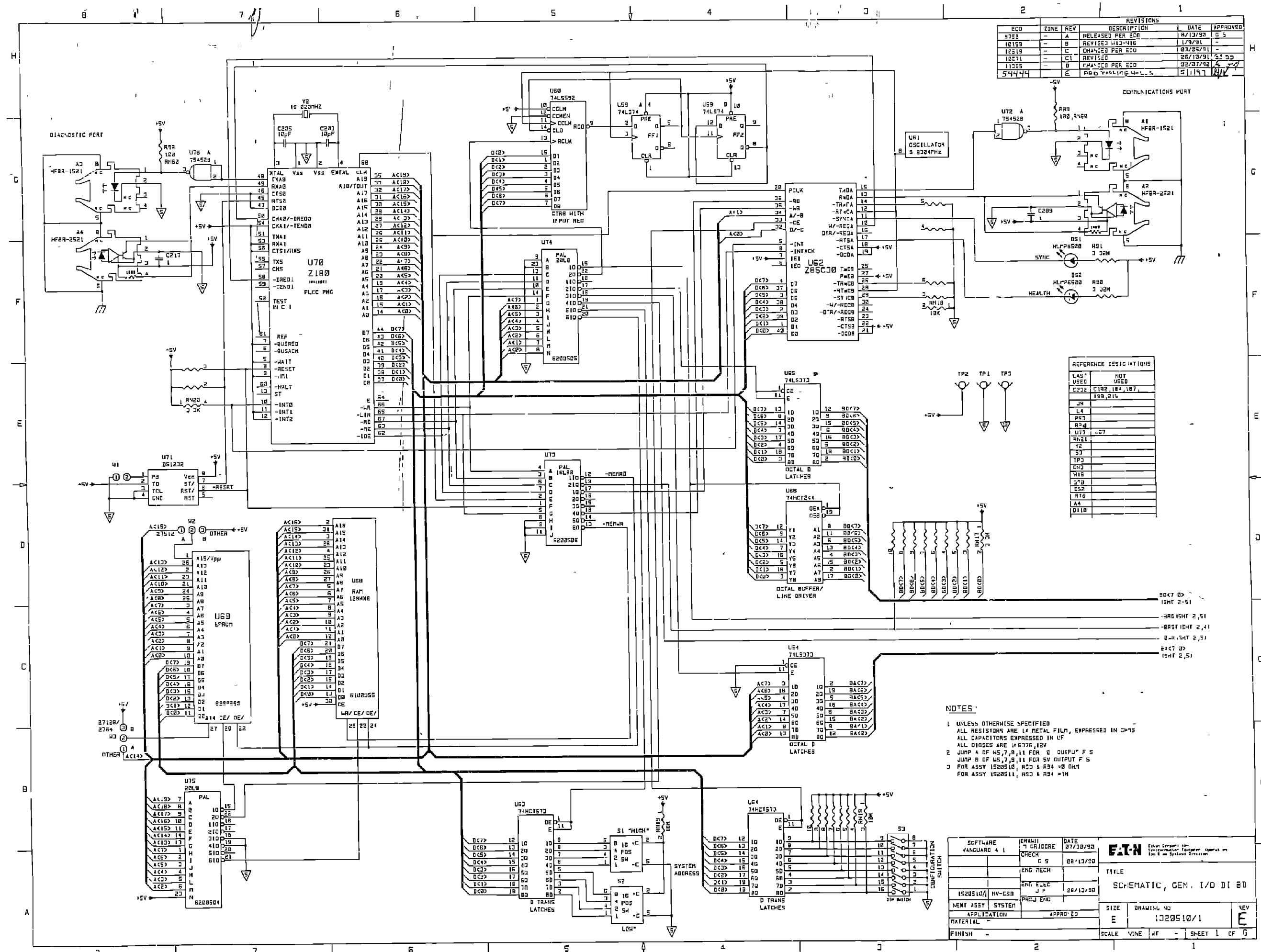
# Schematic General Interconnect - 1320130



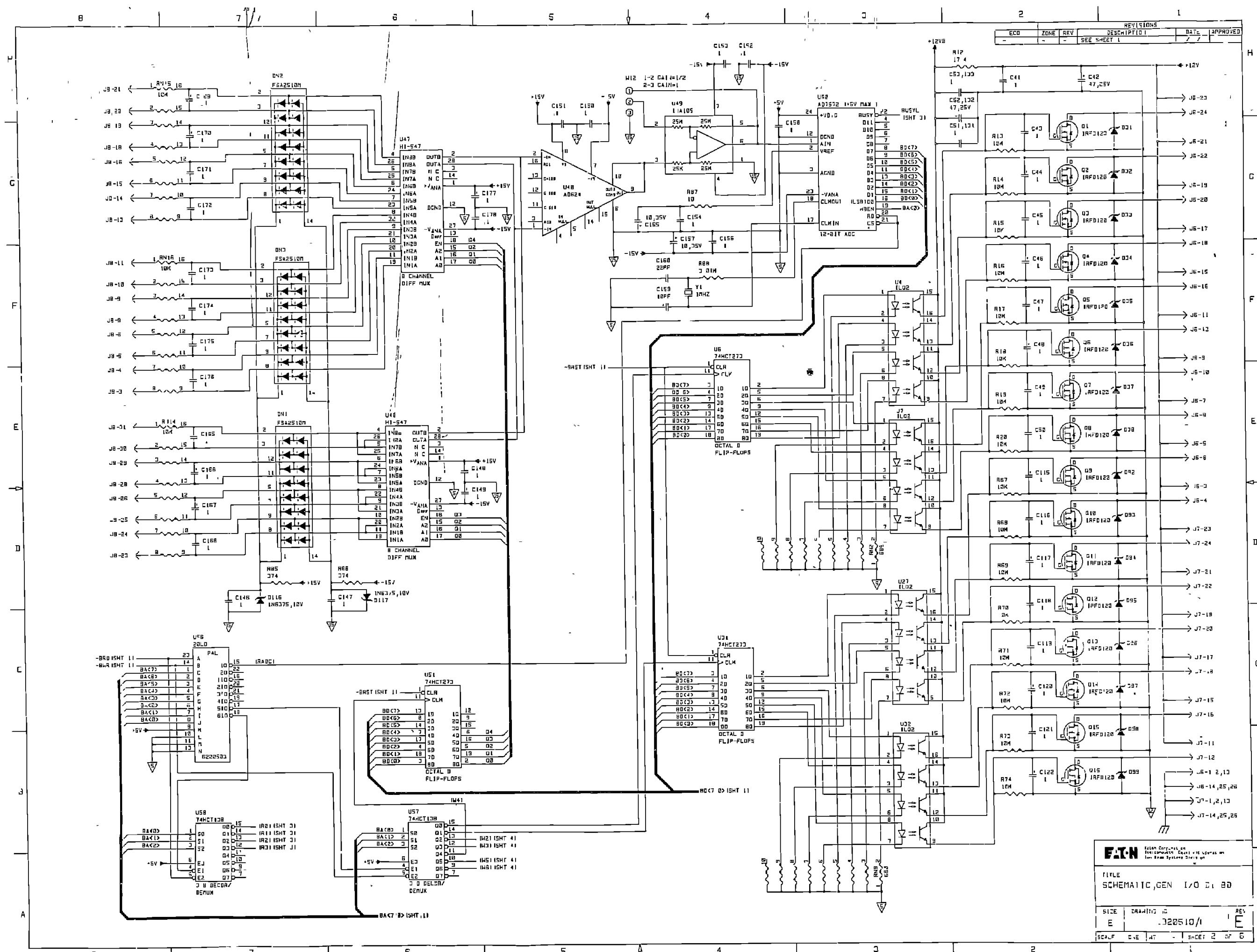
# Schematic Vacuum Gauge Controller Interface B.D. - 1320140



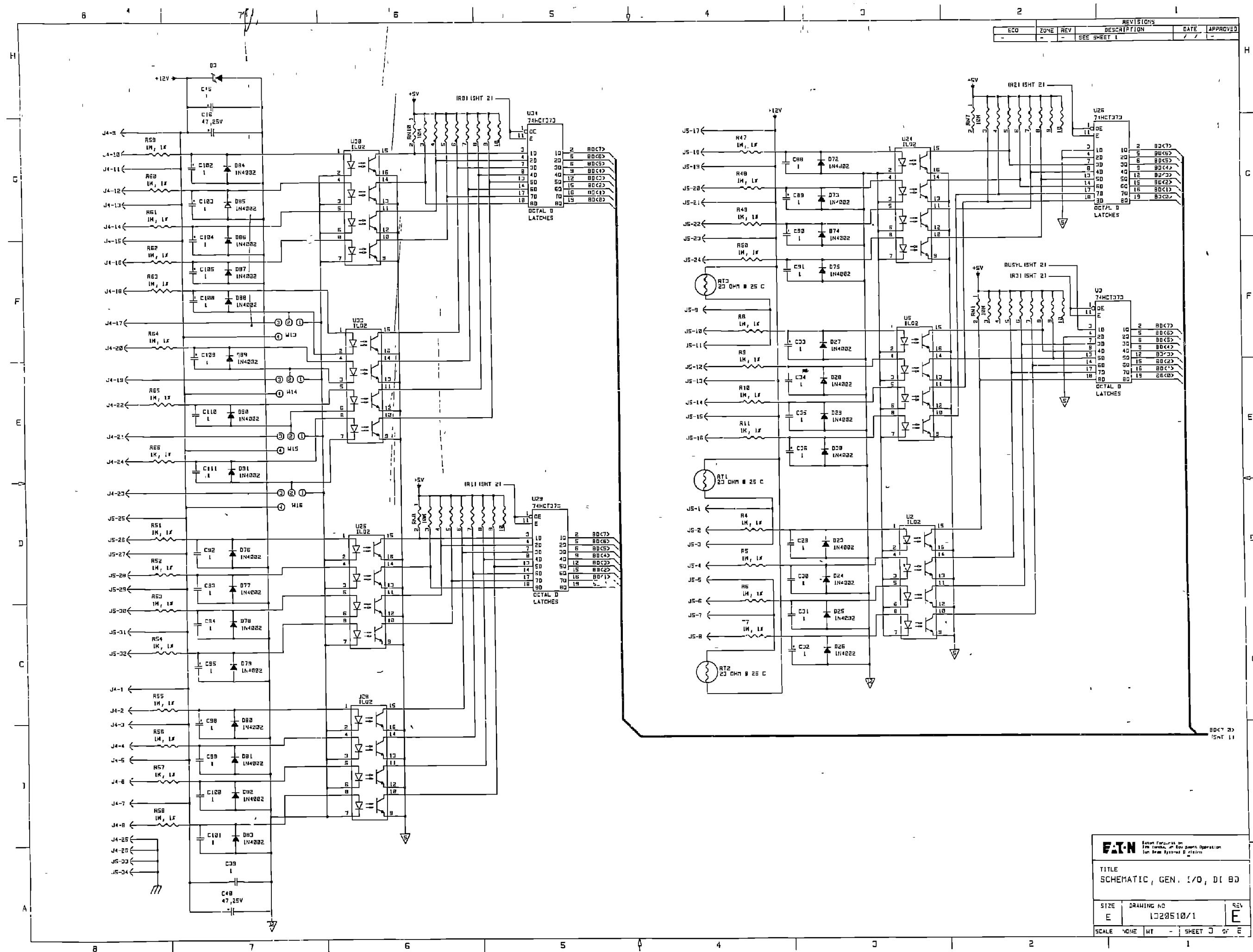
**Schematic Gen IO, DI Bd - 1320510**



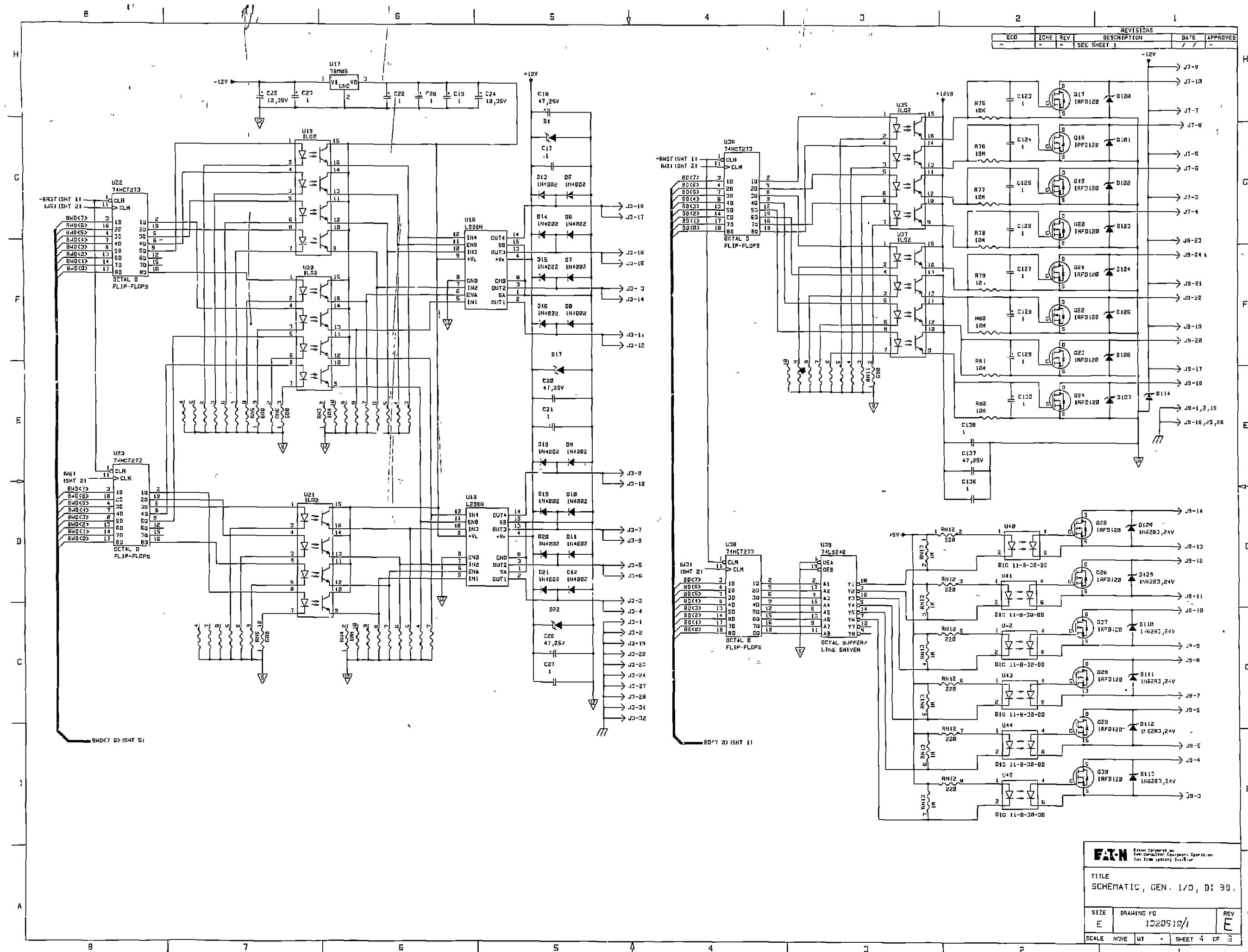
## Schematic Gen IO, DI Bd - 1320510



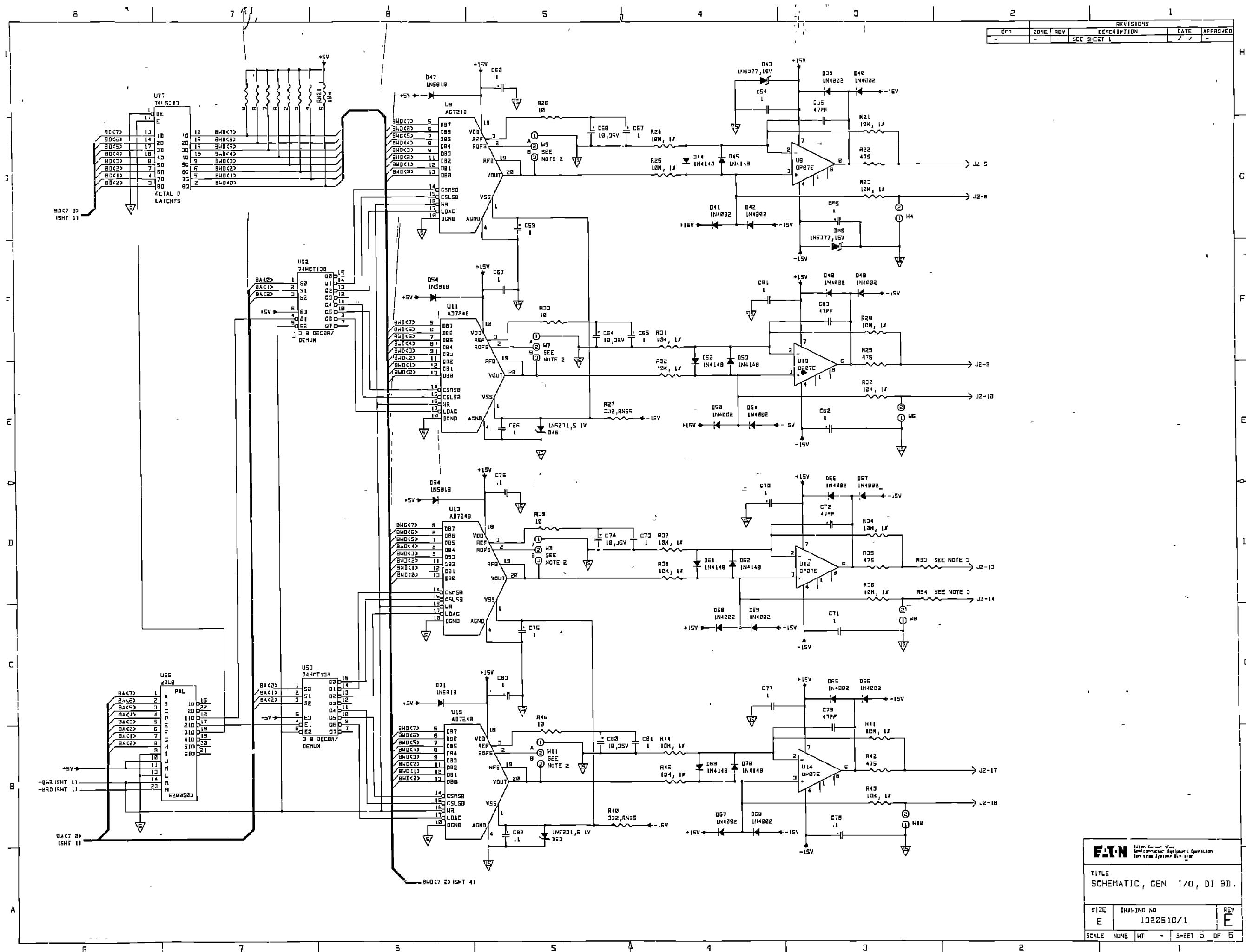
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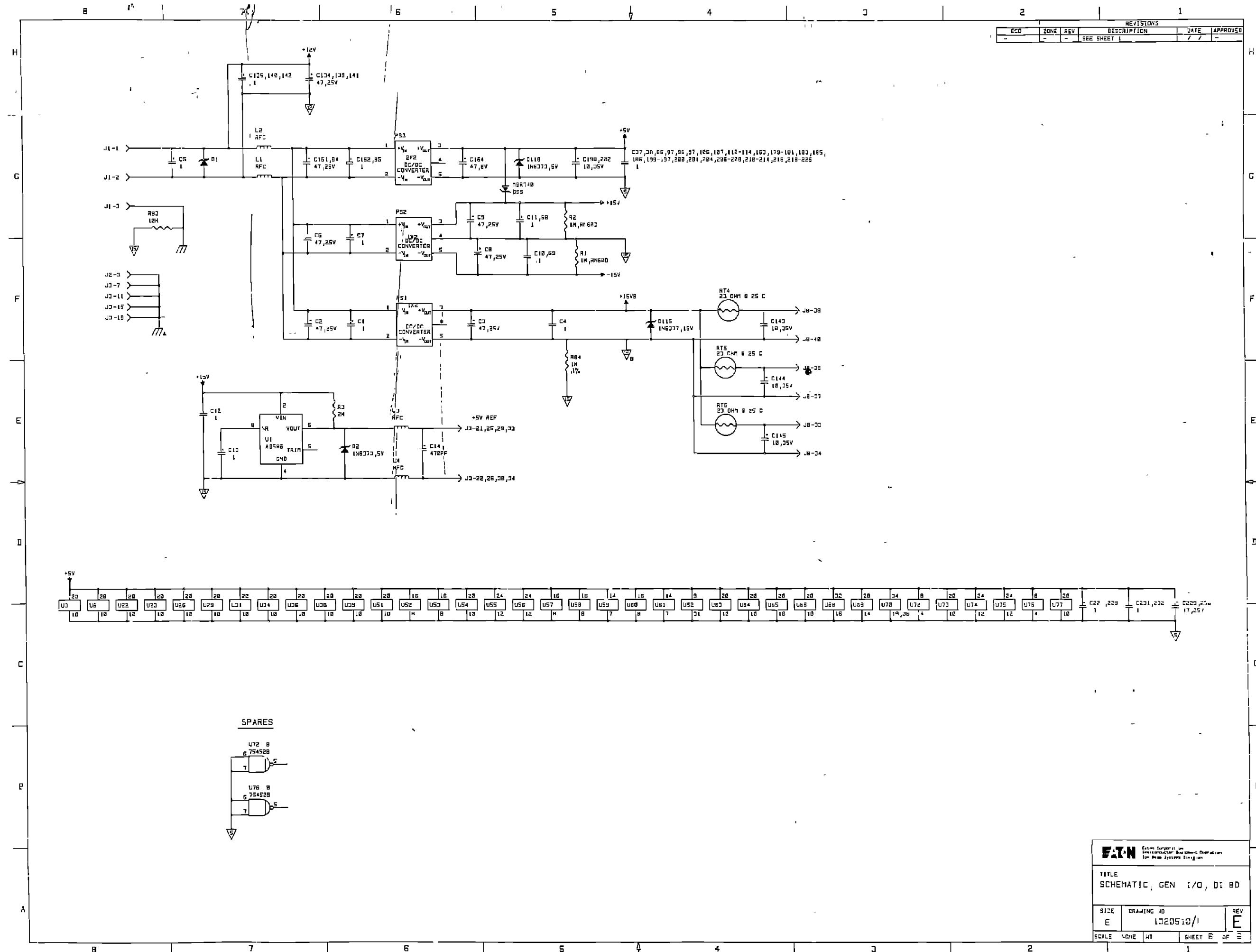
## Schematic Gen IO, DI Bd - 1320510



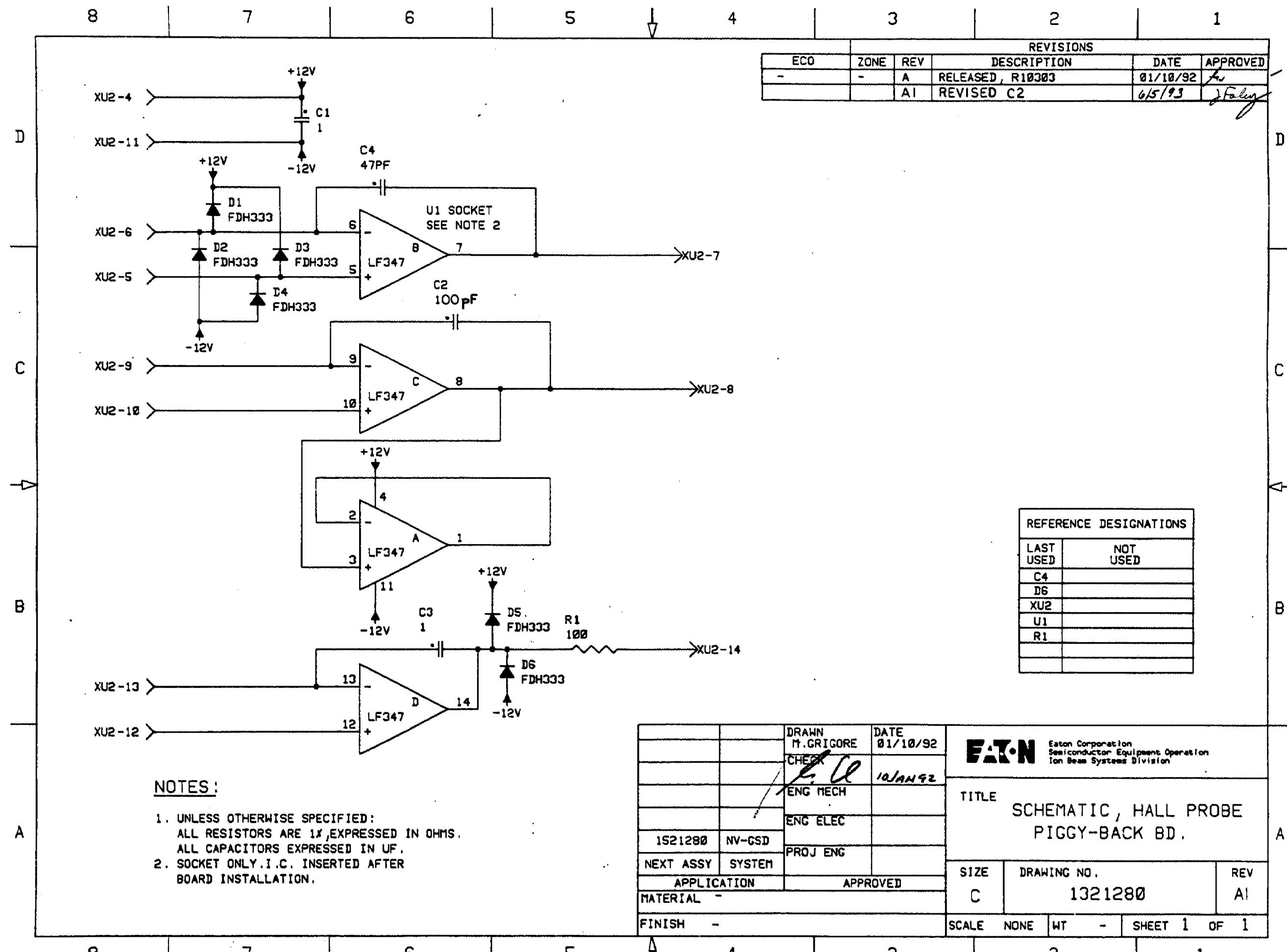
**Schematic Gen IO, DI Bd - 1320510**



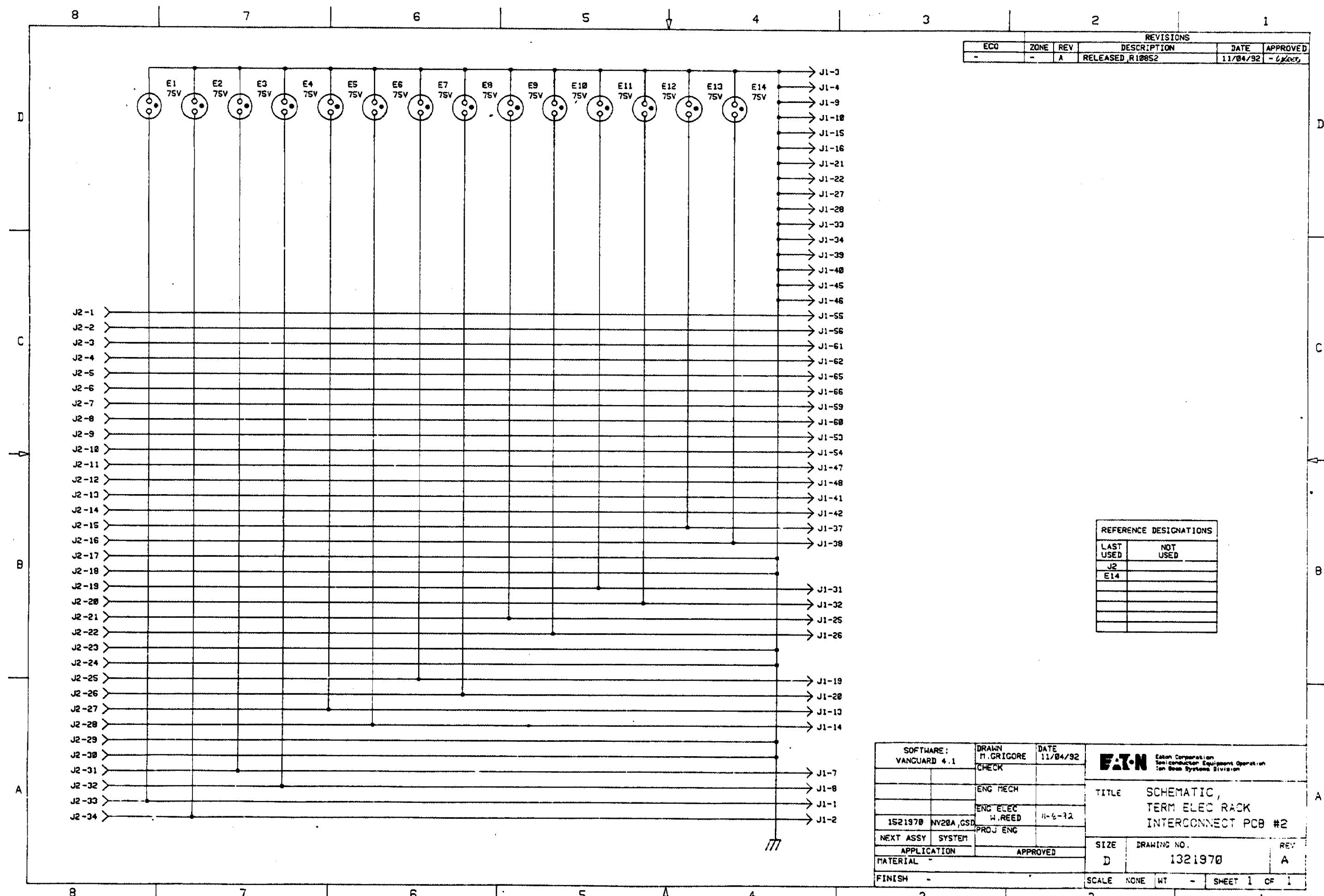
## Schematic Gen IO, DI Bd - 1320510



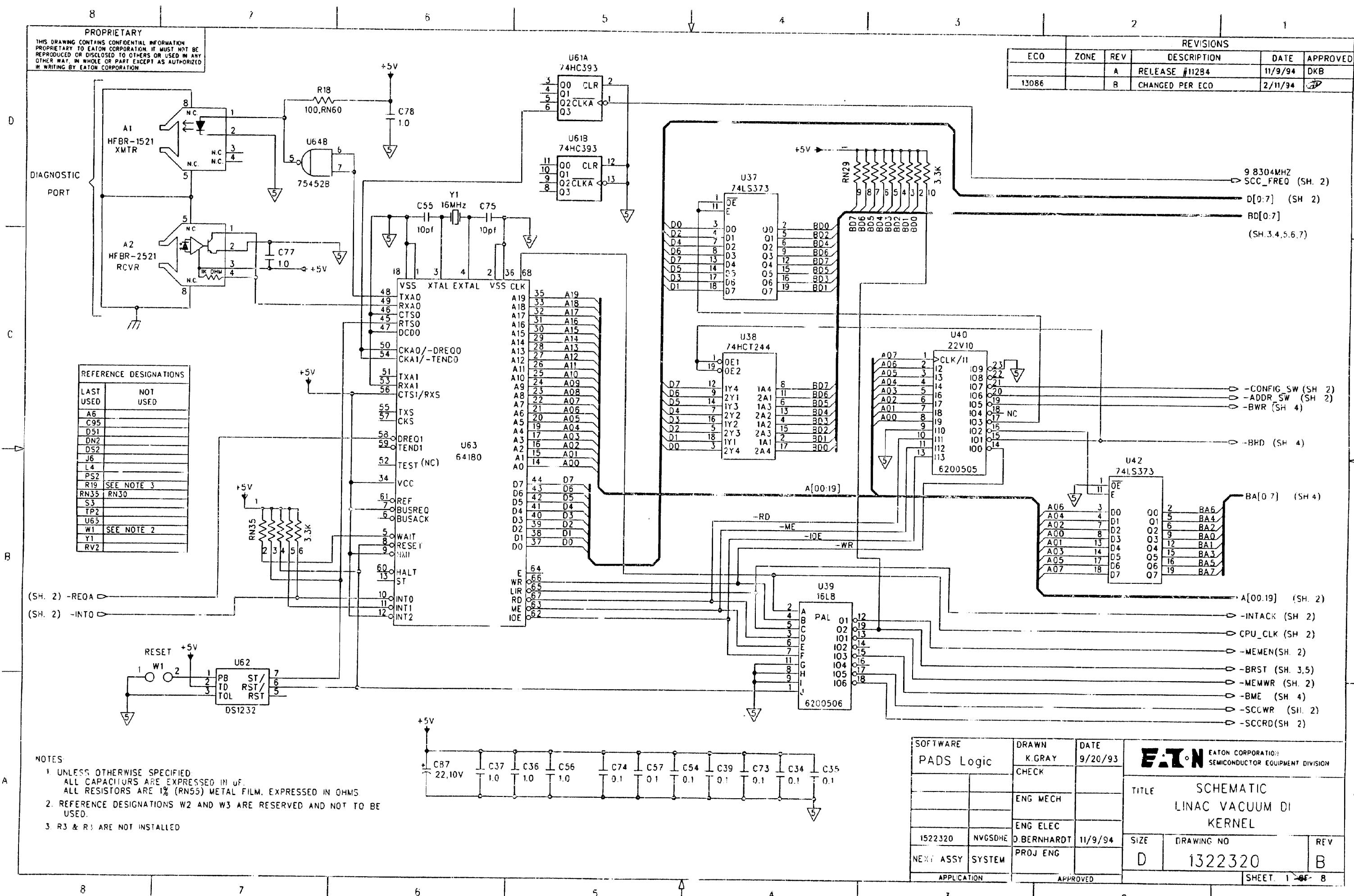
# Schematic Hall Probe Piggy-back Bd - 1321280



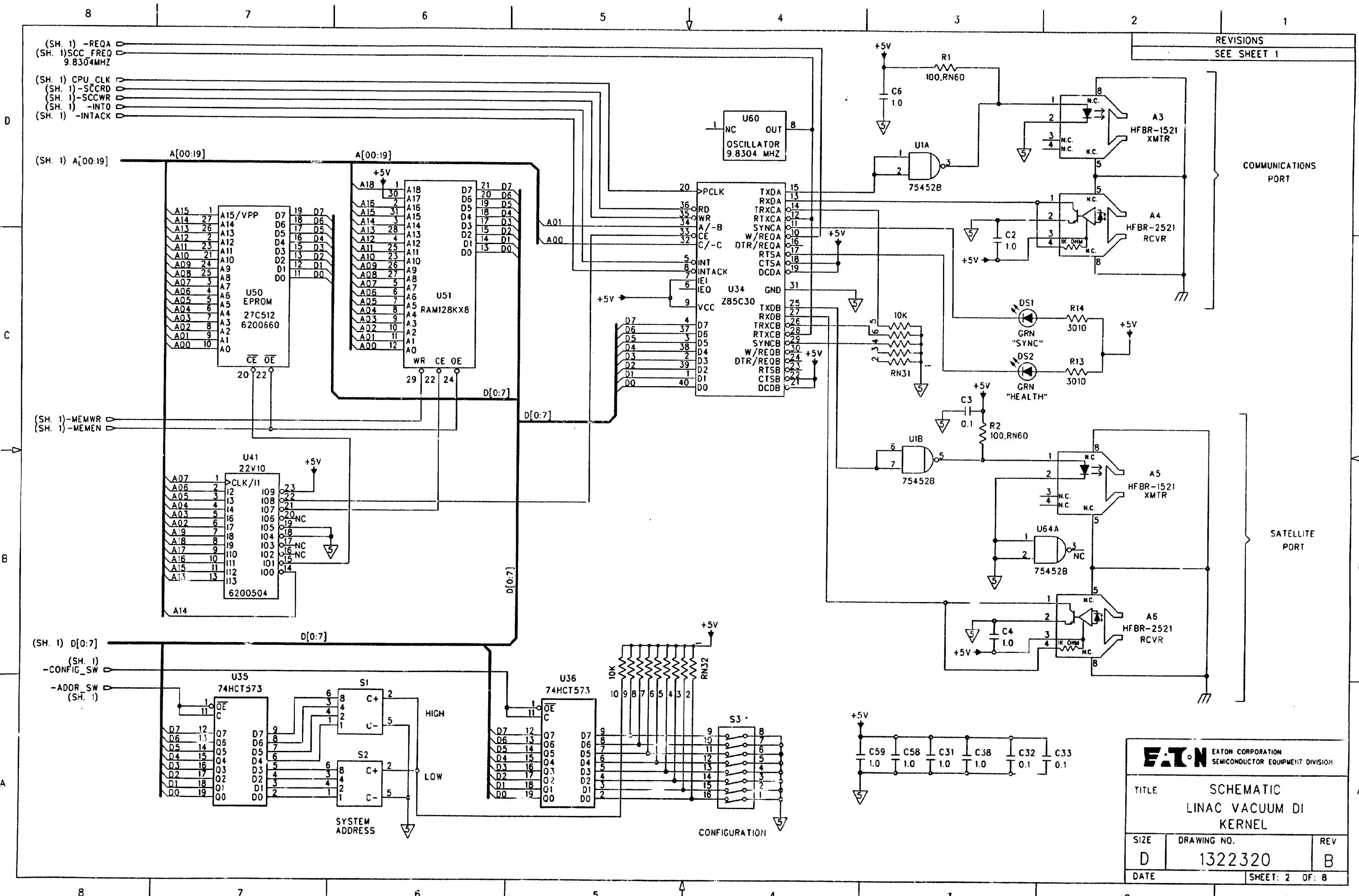
## Schematic Interconnect #2-1321970



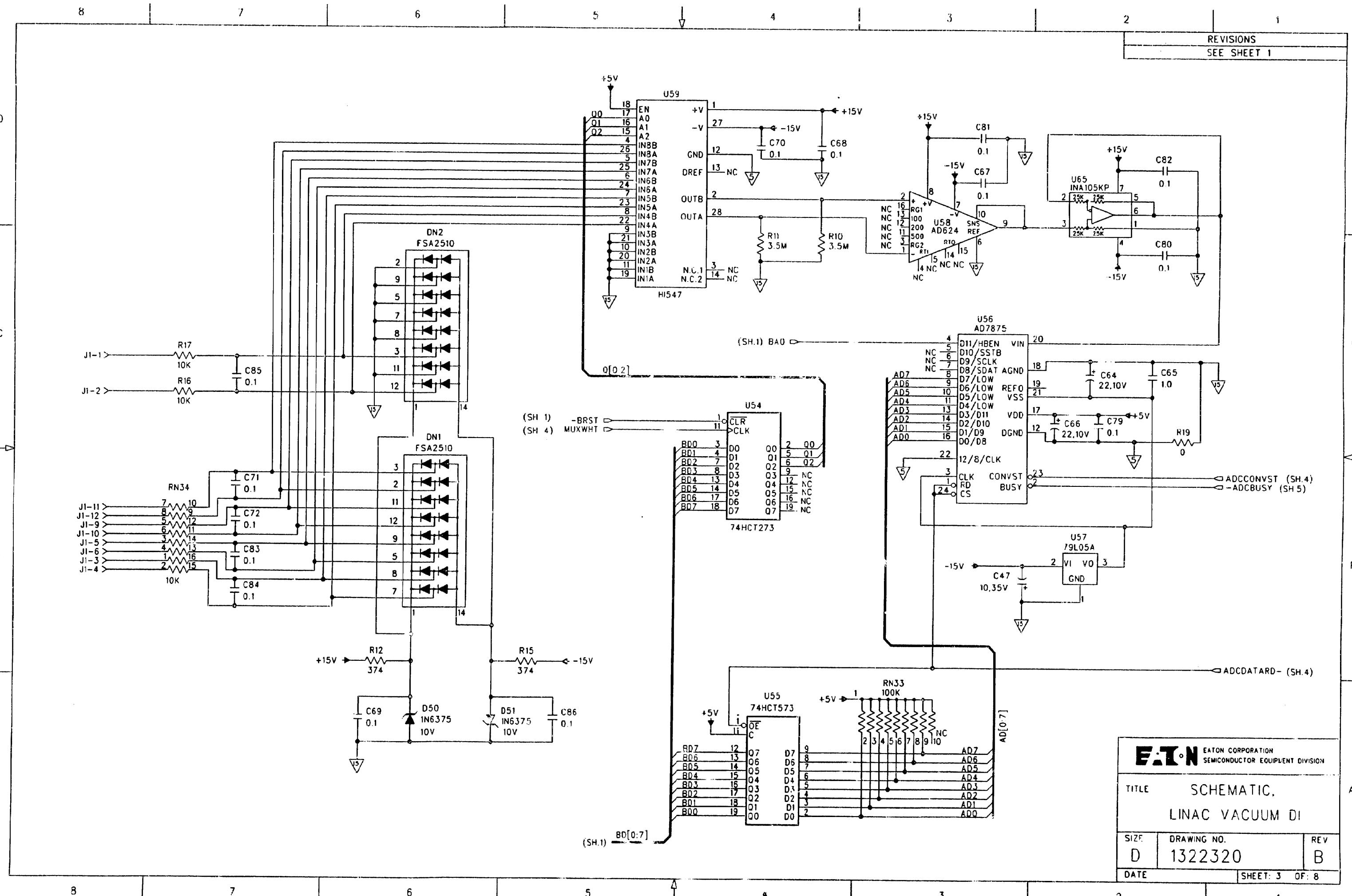
## Schematic Linac Vacuum DI - 1322320



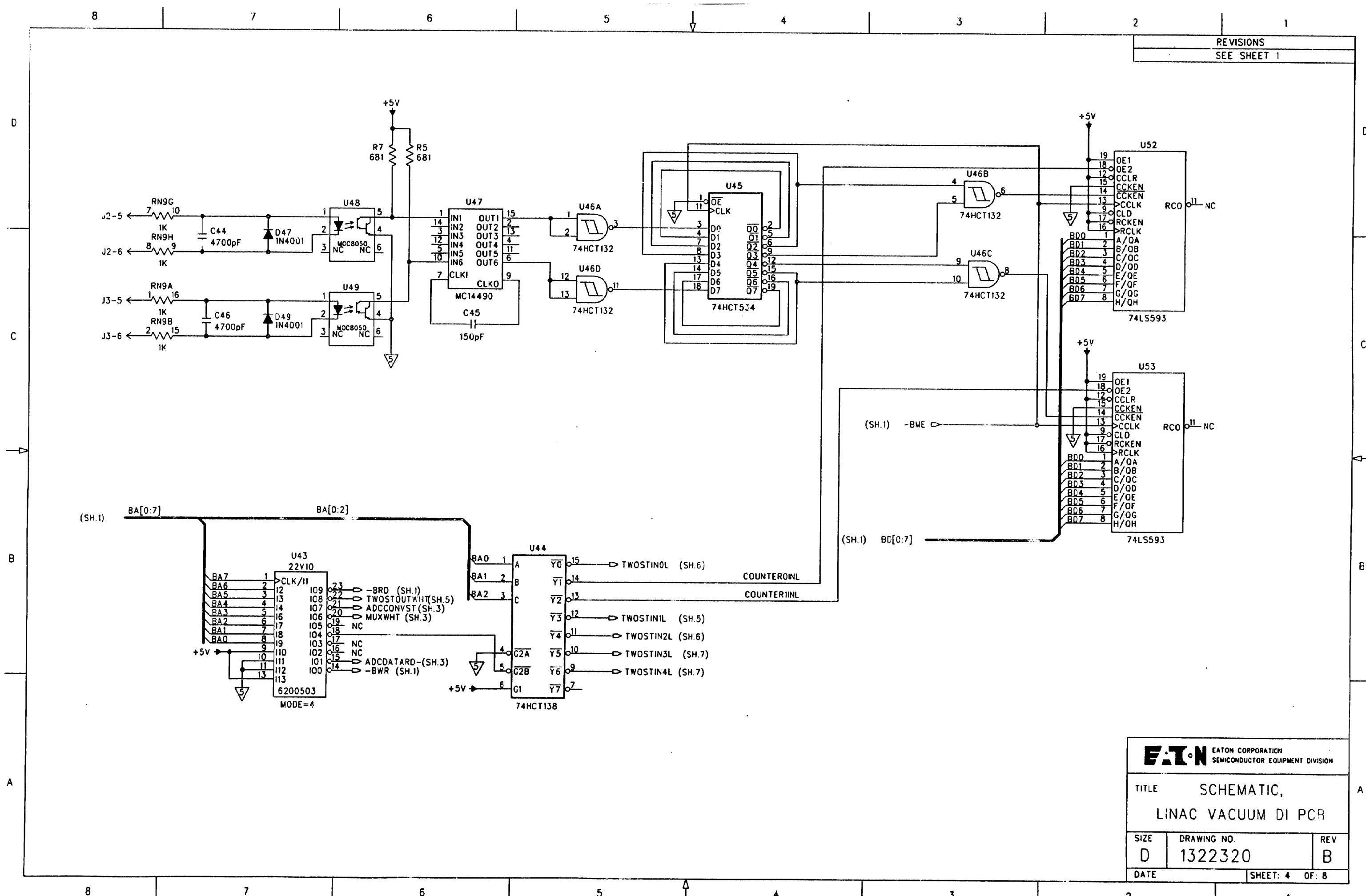
## Schematic Linac Vacuum DI - 1322320



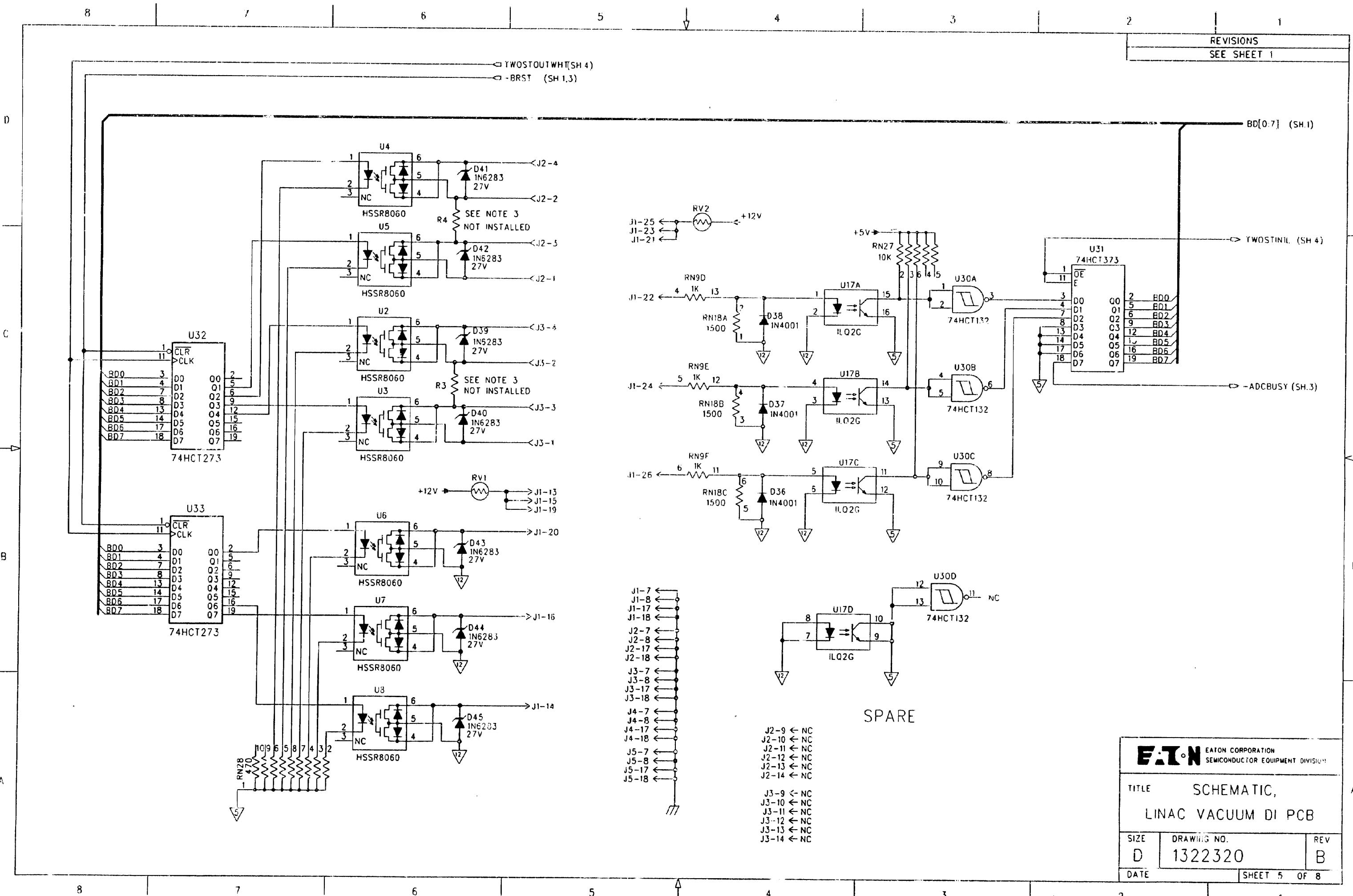
## Schematic Linac Vacuum DI - 1322320



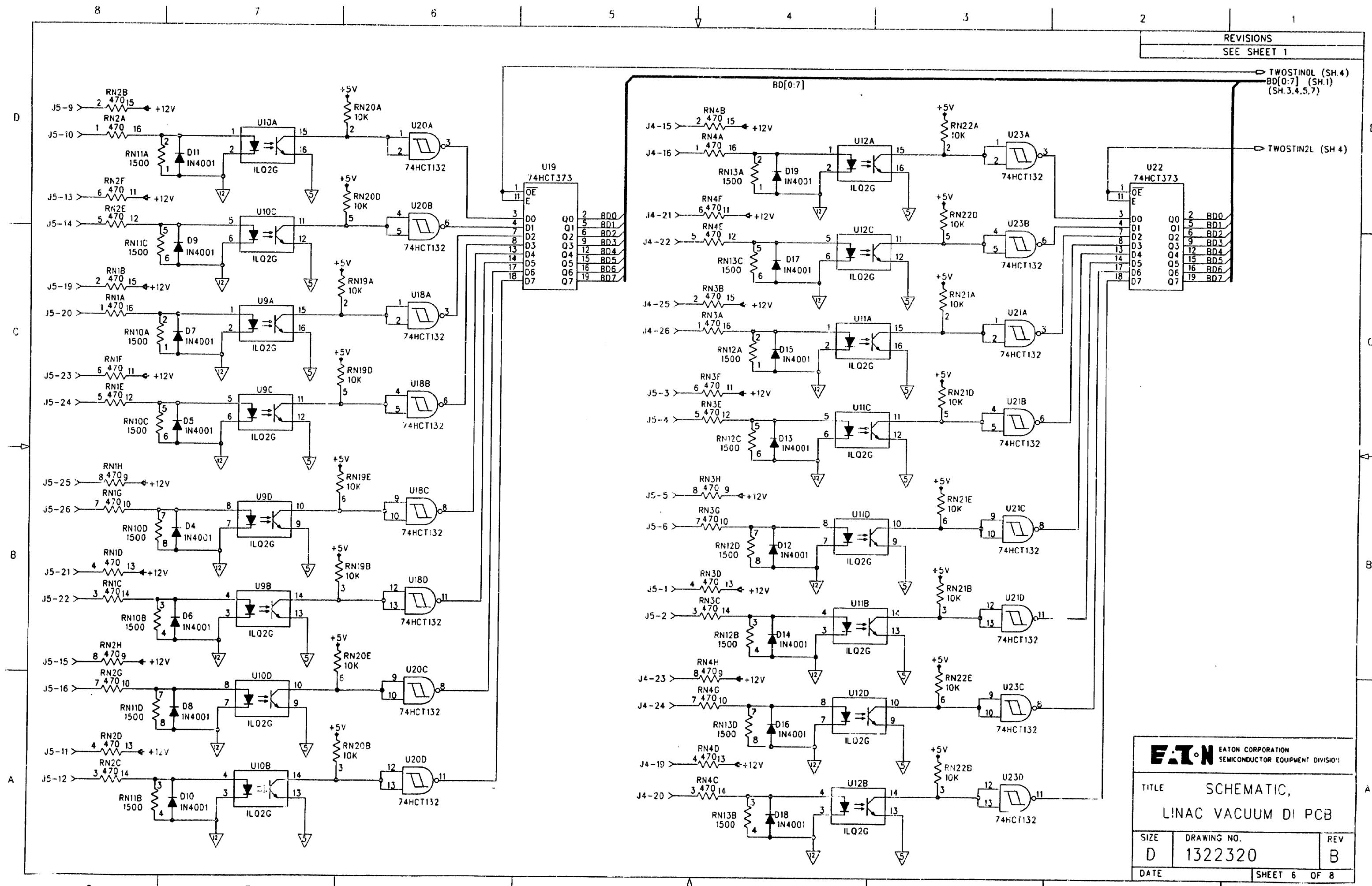
## Schematic Linac Vacuum DI - 1322320



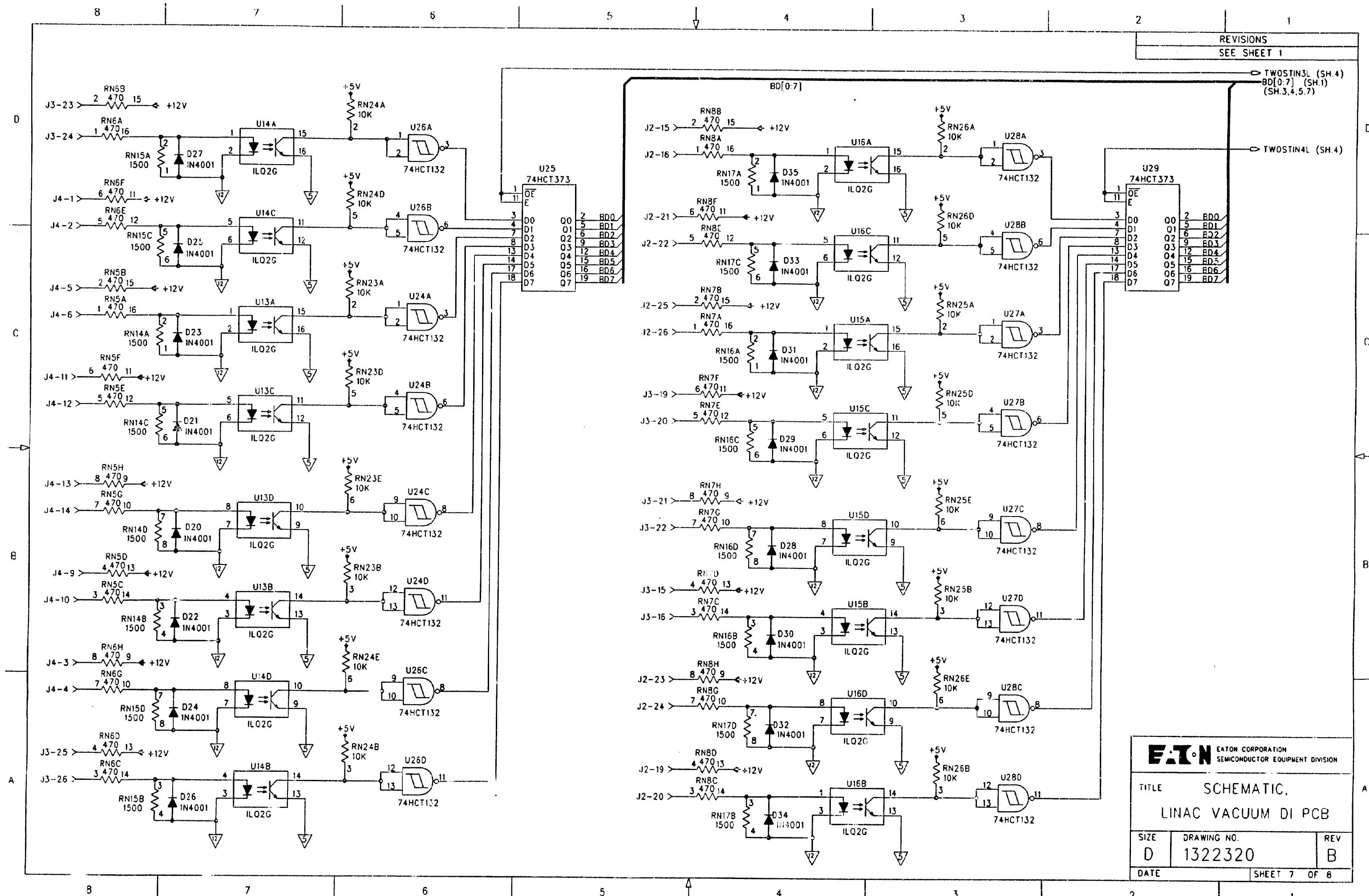
## Schematic Linac Vacuum DI - 1322320



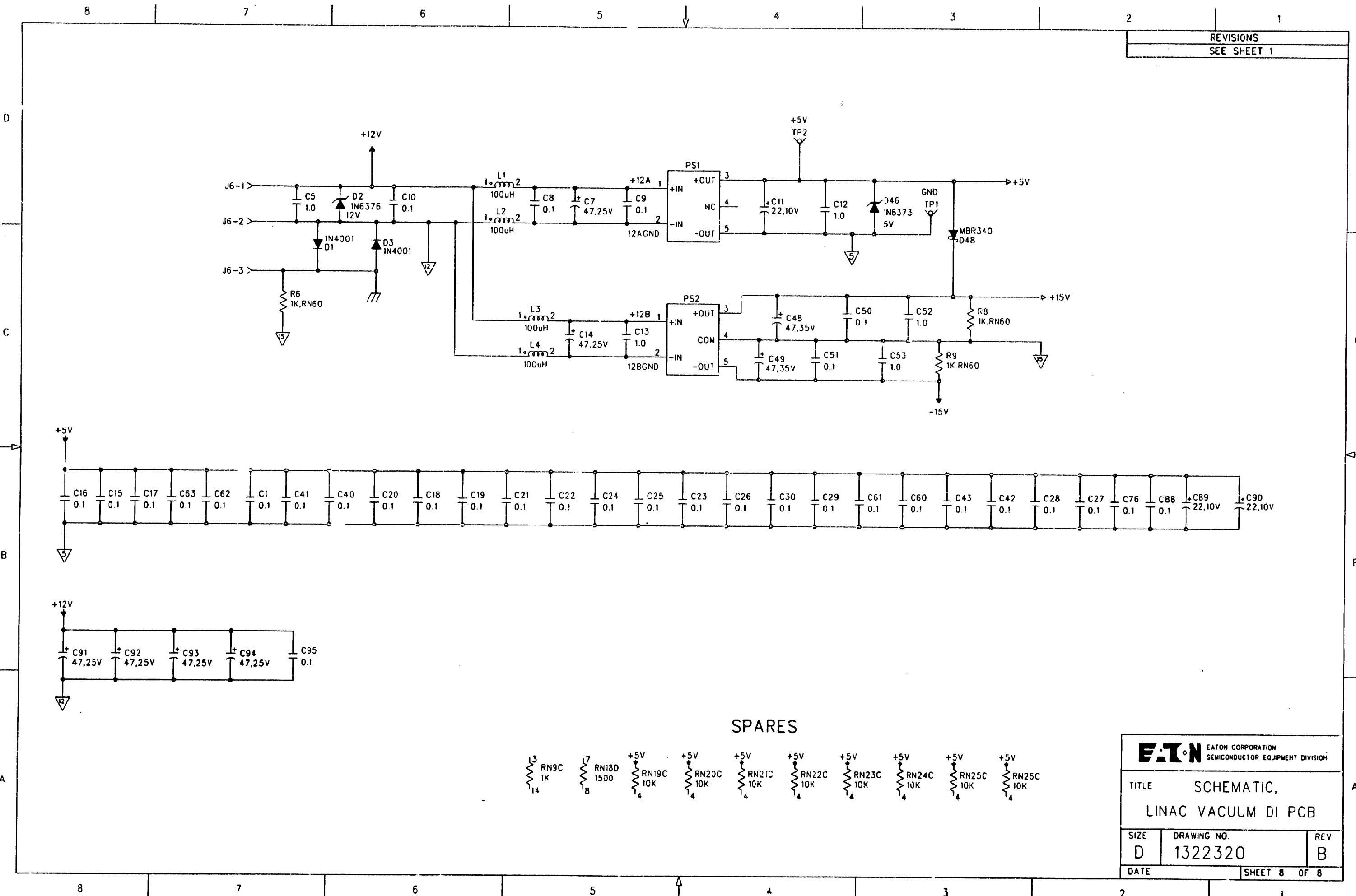
## Schematic Linac Vacuum DI- 1322320



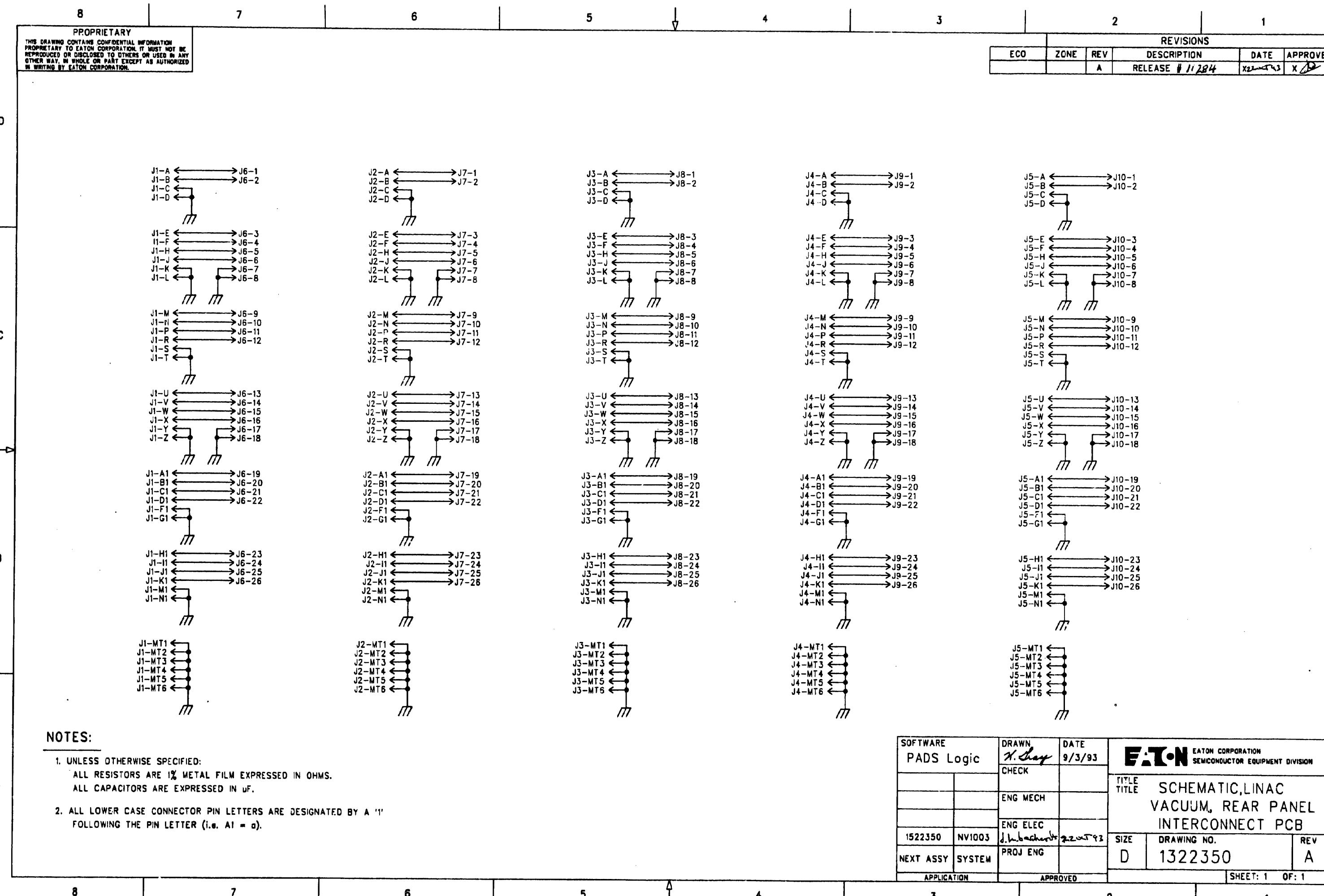
# Schematic Linac Vacuum DI-1322320



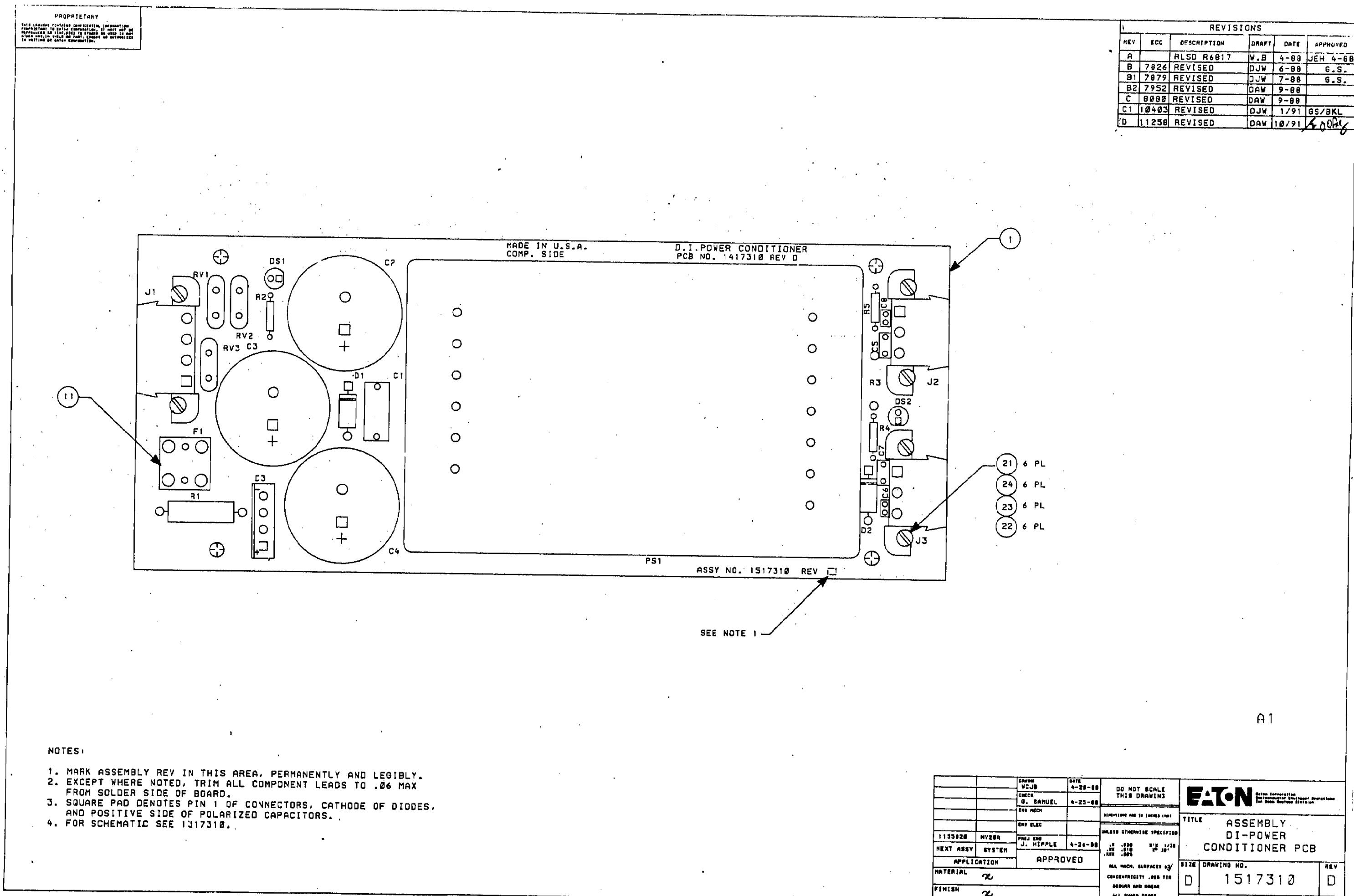
## Schematic Linac Vacuum DI-1322320



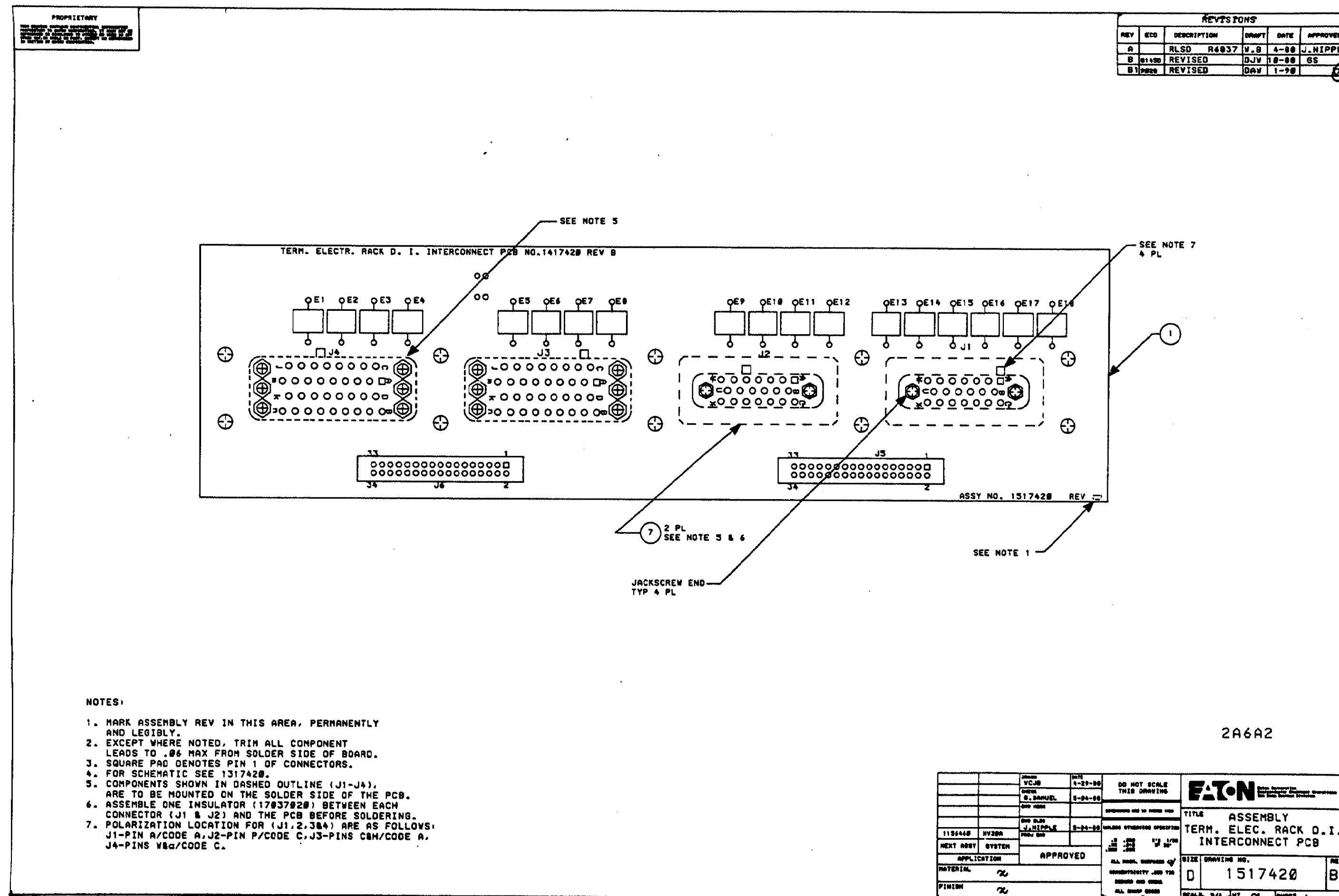
## Schematic Vacuum Rear Panel Interconnect - 1322350



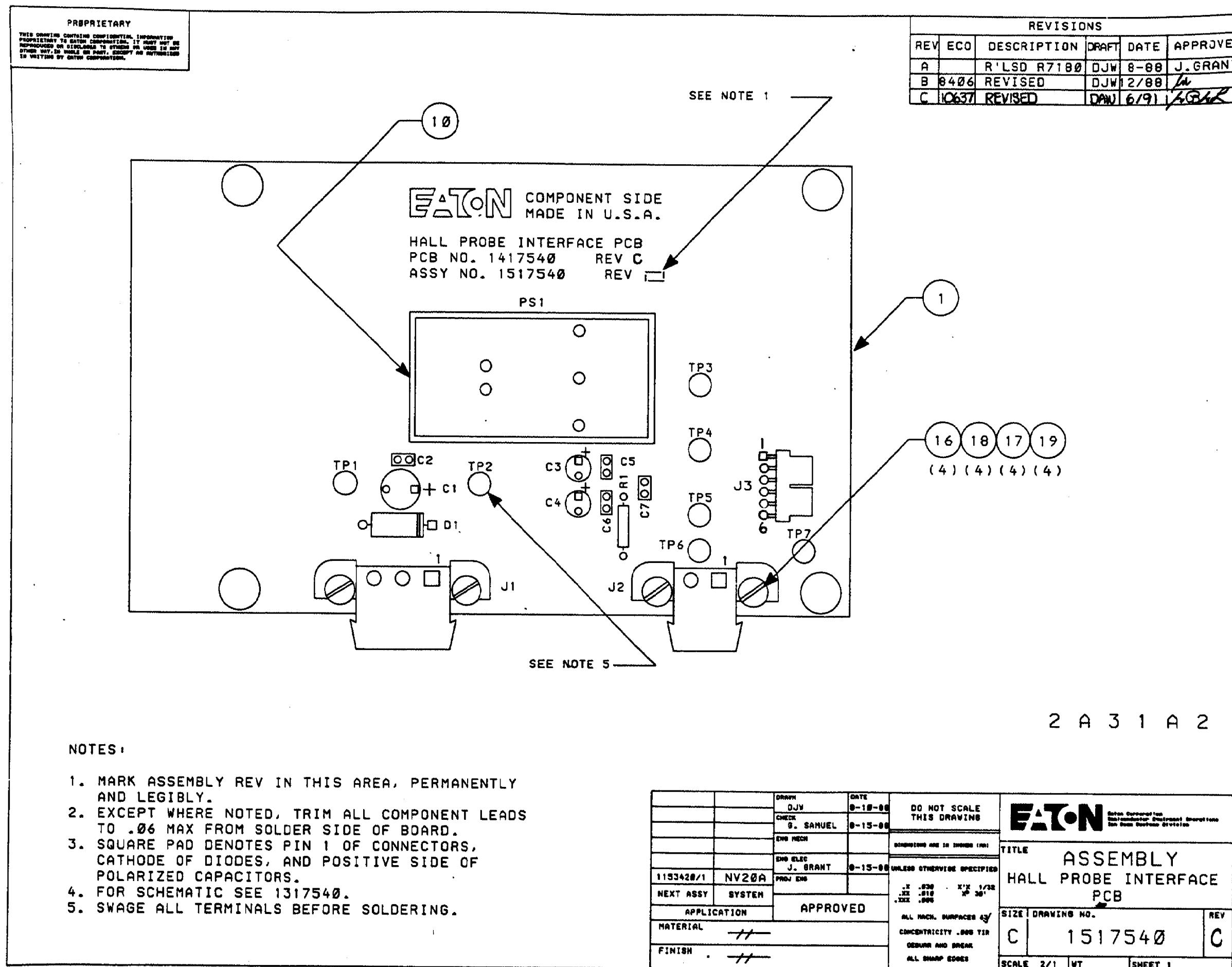
## PCB DI Power Conditioner-1517310



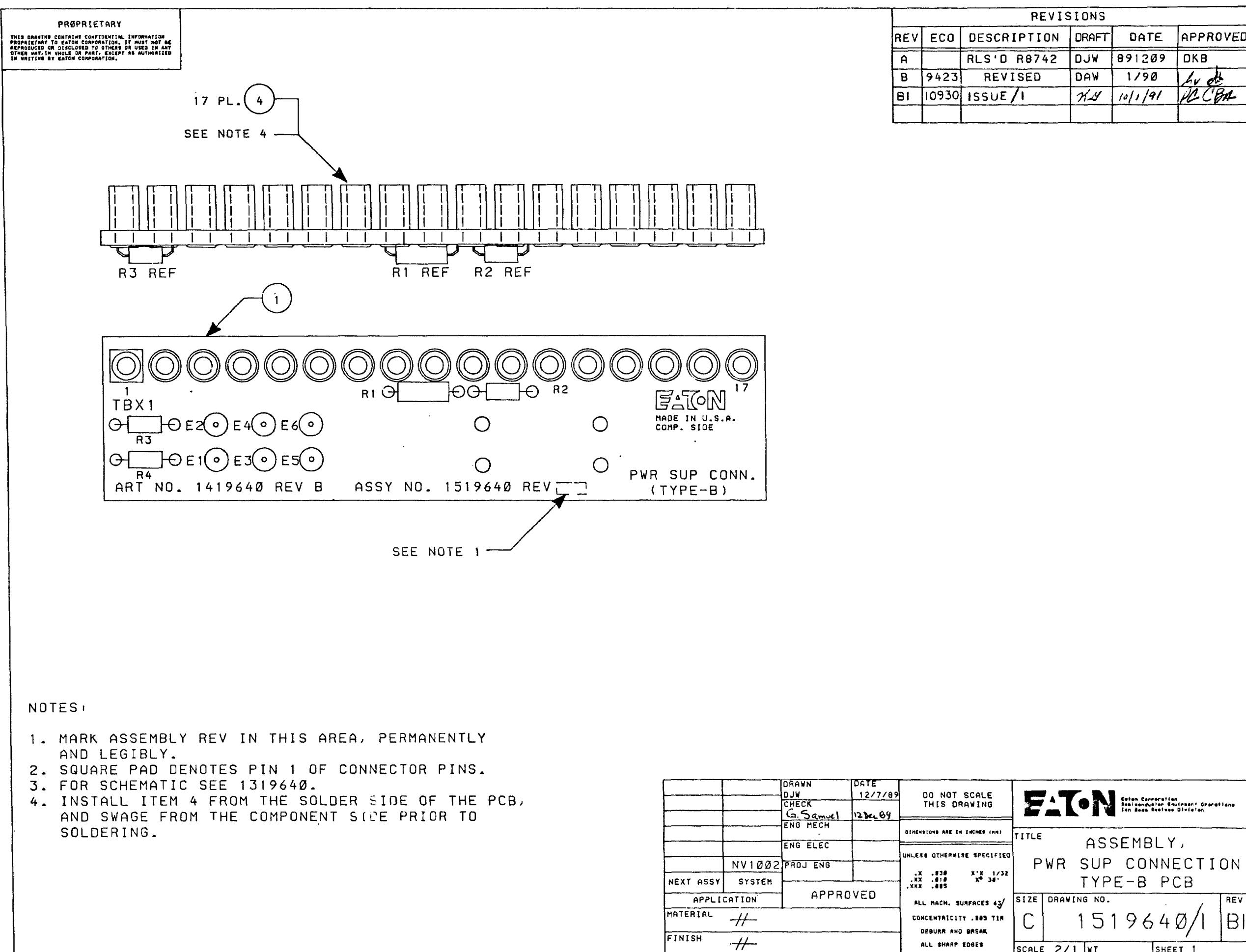
## Assembly, Electronics Rack D.I. PCB - 1517420



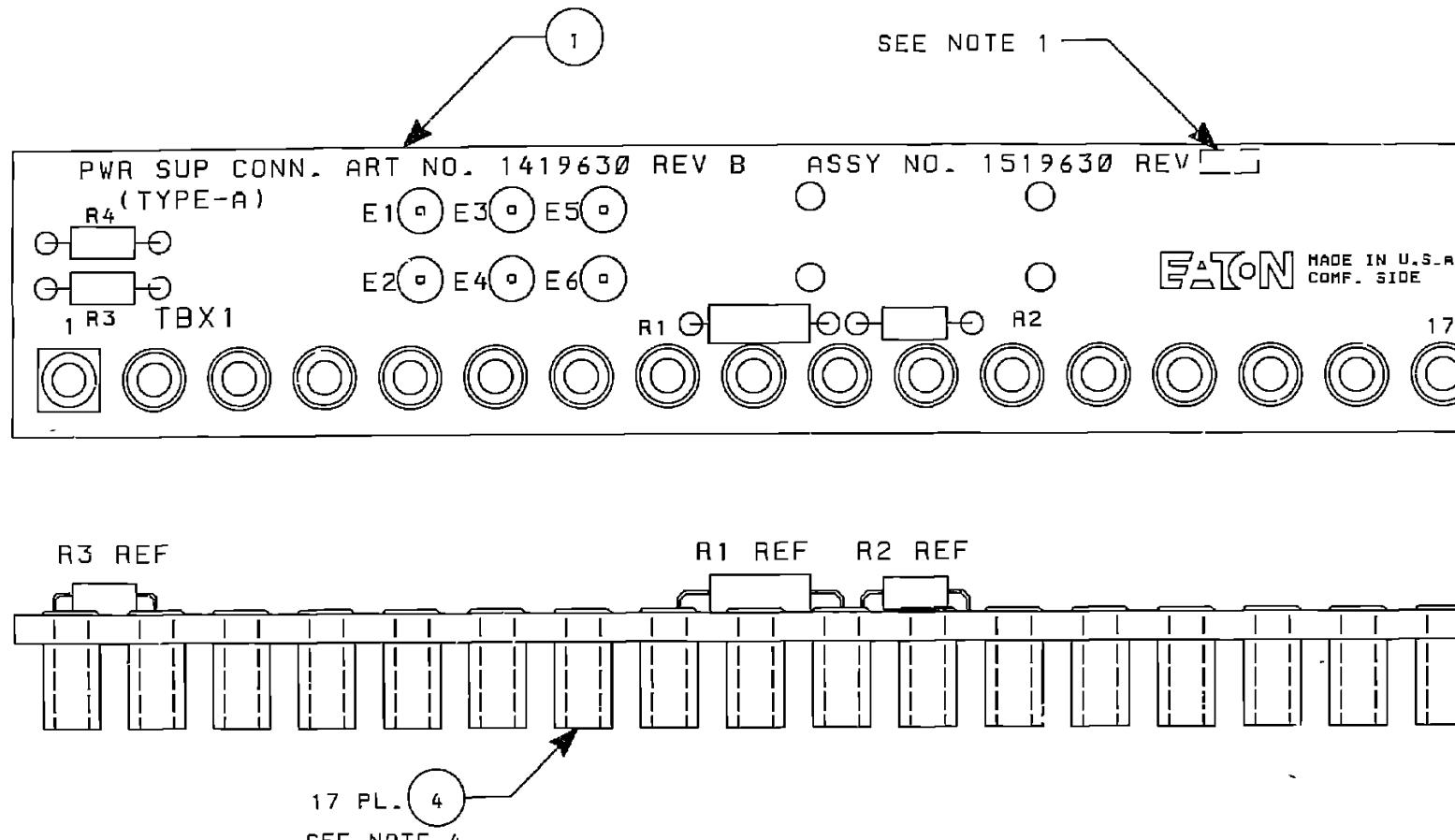
# **PCB Hall Probe Interface-1517540**



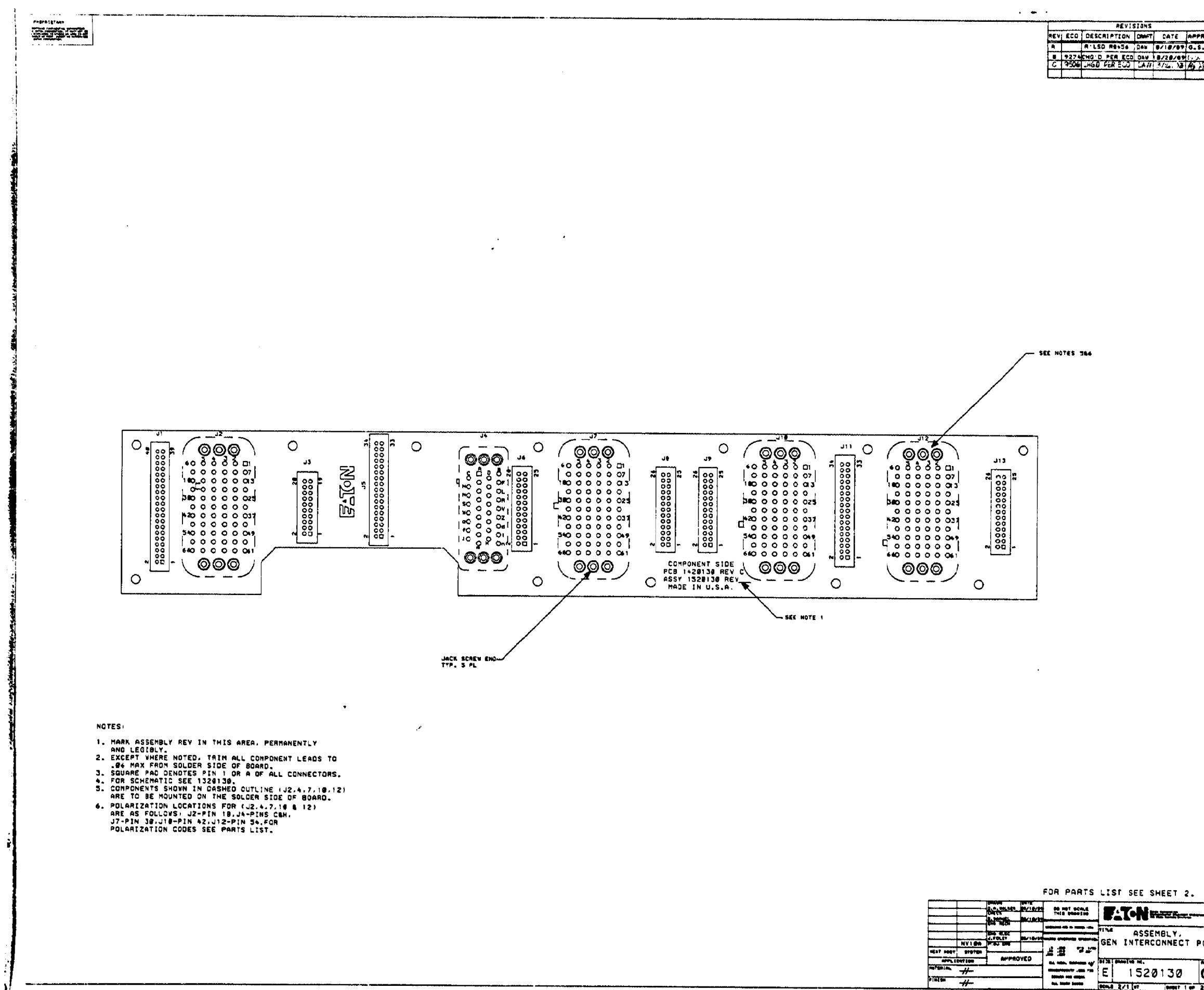
# Assembly Pwr Sup Connection Type B PCB - 1519461



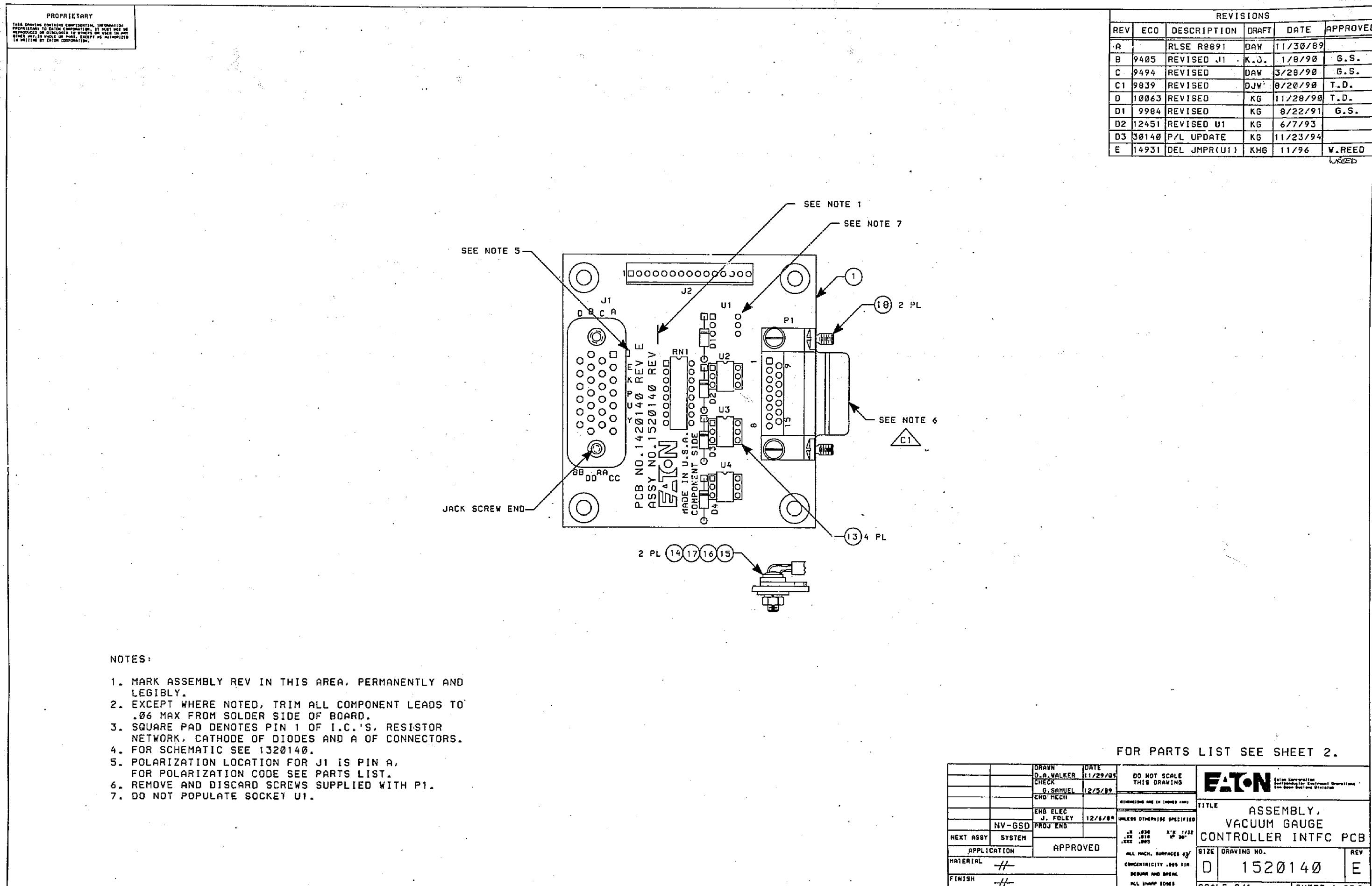
# Assembly, Power Supply Connector Type-A PCB - 1519630

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<b>NOTES:</b> <ol style="list-style-type: none"> <li>1. MARK ASSEMBLY REV IN THIS AREA, PERMANENTLY AND LEGIBLY.</li> <li>2. SQUARE PAD DENOTES PIN 1 OF CONNECTOR PINS.</li> <li>3. FOR SCHEMATIC SEE 1319630.</li> <li>4. INSTALL ITEM 4 FROM THE SOLDER-SIDE OF THE PCB, AND SWAGE FROM THE COMPONENT SIDE PRIOR TO SOLDERING.</li> </ol>																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DRAWN DJW</td> <td style="width: 15%;">DATE 12/7/89</td> <td style="width: 15%;">DO NOT SCALE - THIS DRAWING</td> <td colspan="3" rowspan="2" style="width: 45%; text-align: center;"> <b>EATON</b>  <small>Eaton Corporation Eaton Industrial Equipment Eaton Components Division</small> </td> </tr> <tr> <td>CHECK G. SPARVALL 11DEC89</td> <td>ENG MECH</td> <td colspan="3">DIMENSIONS ARE IN INCHES (IN)</td> </tr> <tr> <td>ENG ELEC</td> <td colspan="3"></td> <td colspan="2">UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>NV1002</td> <td>PROJ ENG</td> <td colspan="3">           X .000 X .032            X .000 X .030            X .000 X .030         </td> <td>ALL MACH. SURFACES 6/32</td> </tr> <tr> <td>NEW ASSY</td> <td>SYSTEM</td> <td colspan="3"></td> <td>CONCENTRICITY .005 TIR</td> </tr> <tr> <td colspan="2">APPLICATION</td> <td colspan="3"></td> <td>DEBURR AND BREAK</td> </tr> <tr> <td colspan="2">MATERIAL //</td> <td colspan="3"></td> <td>ALL SHARP EDGES</td> </tr> <tr> <td colspan="2">FINISH //</td> <td colspan="3"></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;">APPROVED</td> <td colspan="3"></td> </tr> <tr> <td colspan="6" style="text-align: center;">TITLE ASSEMBLY, PWR SUP CONNECTION TYPE-A PCB</td> </tr> <tr> <td style="width: 15%;">SIZE</td> <td style="width: 15%;">DRAWING NO.</td> <td style="width: 15%;">REV</td> <td colspan="3"></td> </tr> <tr> <td>C</td> <td>1519630</td> <td>B</td> <td colspan="3"></td> </tr> <tr> <td colspan="3" style="text-align: center;">SCALE 2/1 WT SHEET 1</td> <td colspan="3"></td> </tr> </table>			DRAWN DJW	DATE 12/7/89	DO NOT SCALE - THIS DRAWING	<b>EATON</b> <small>Eaton Corporation Eaton Industrial Equipment Eaton Components Division</small>			CHECK G. SPARVALL 11DEC89	ENG MECH	DIMENSIONS ARE IN INCHES (IN)			ENG ELEC				UNLESS OTHERWISE SPECIFIED		NV1002	PROJ ENG	X .000 X .032 X .000 X .030 X .000 X .030			ALL MACH. SURFACES 6/32	NEW ASSY	SYSTEM				CONCENTRICITY .005 TIR	APPLICATION					DEBURR AND BREAK	MATERIAL //					ALL SHARP EDGES	FINISH //						APPROVED						TITLE ASSEMBLY, PWR SUP CONNECTION TYPE-A PCB						SIZE	DRAWING NO.	REV				C	1519630	B				SCALE 2/1 WT SHEET 1					
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SCALE 2/1 WT SHEET 1																																																																															

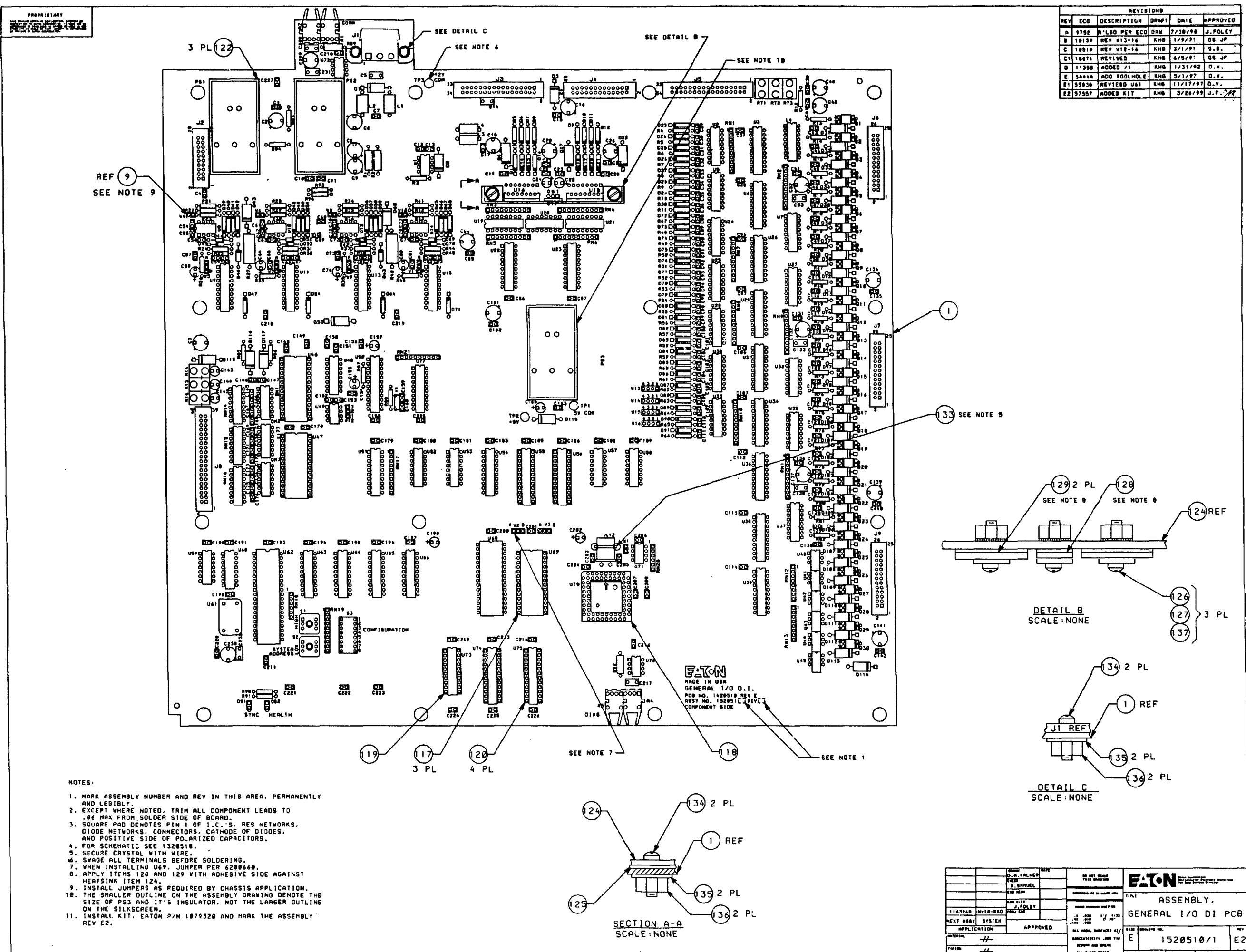
## PCB General Interconnect - 1510130



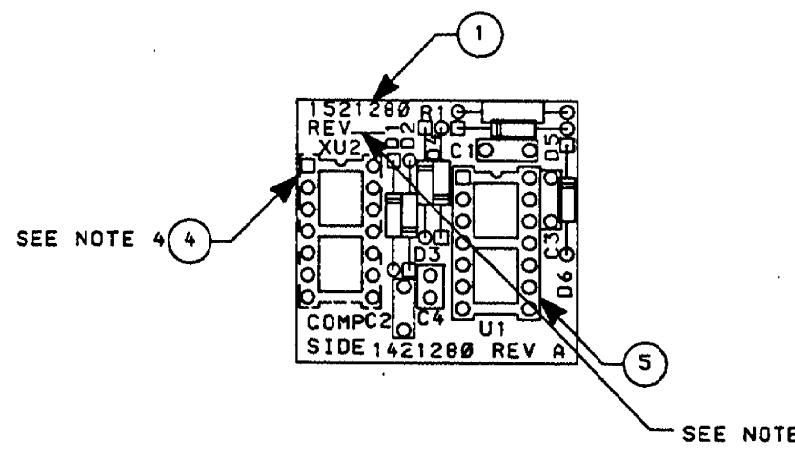
## Assembly Vacuum Gauge Controller Interface PCB - 1520140



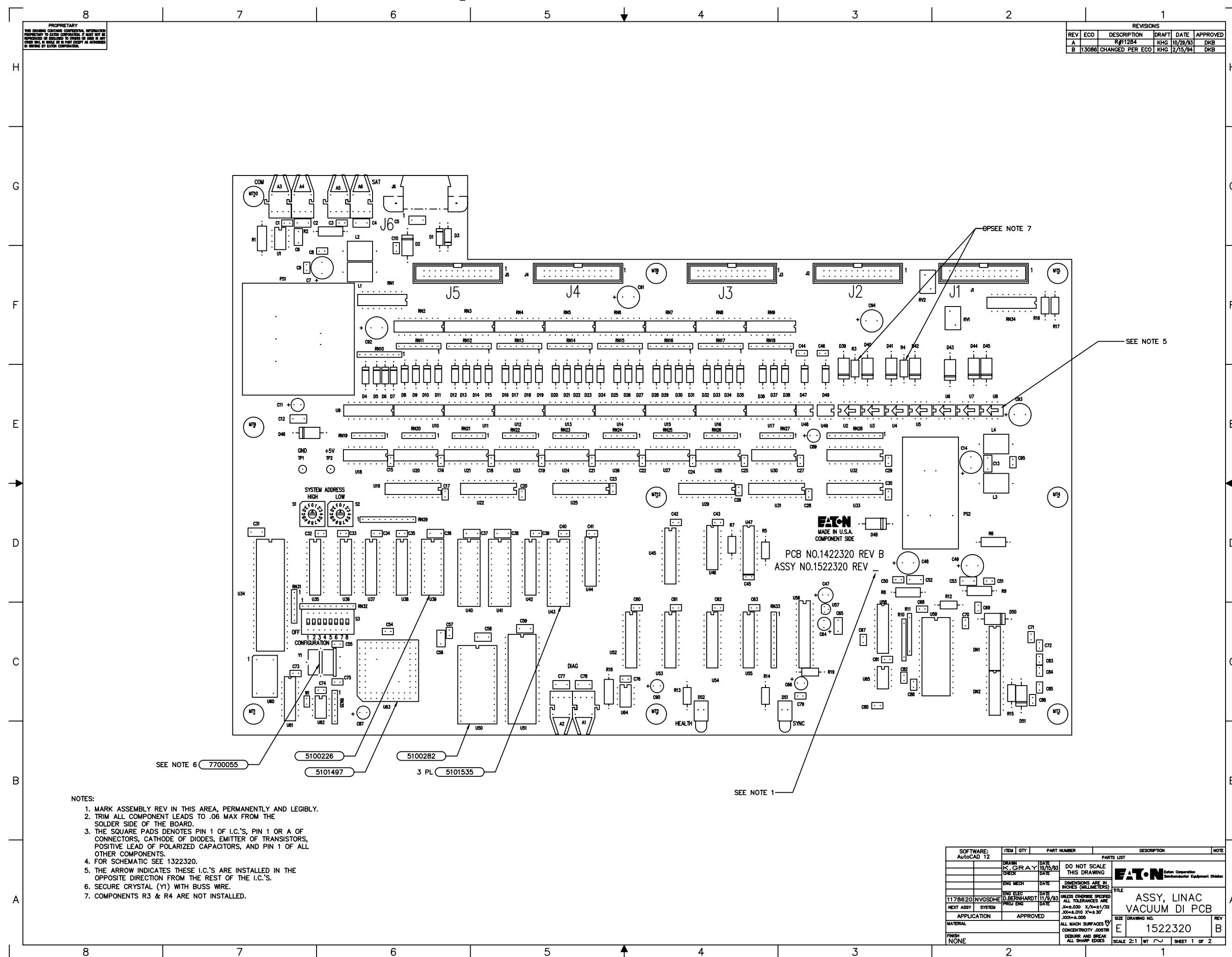
## Assembly, General I/O DI PCB - 1520510/1



## Assembly Hall Probe Piggy Back PCB - 1521280

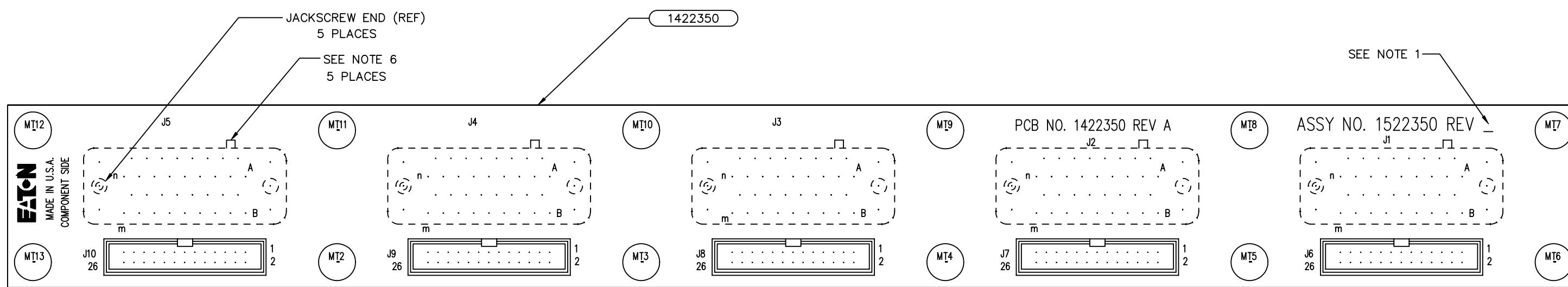
<b>PROPRIETARY</b> <small>This drawing contains confidential information proprietary to Eaton Corporation. It must not be reproduced or disclosed to others or used in any manner without the written consent of Eaton Corporation.</small>	 <p>SEE NOTE 4</p> <p>SEE NOTE 1</p> <p>SEE NOTE 5</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">REVISIONS</th> </tr> <tr> <th>REV</th> <th>ECO</th> <th>DESCRIPTION</th> <th>DRAFT</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td>RLSE, R10303</td> <td>DAW</td> <td>1/09/92</td> <td></td> </tr> <tr> <td>A1</td> <td>12552</td> <td>REV C2, SH2</td> <td>XH4</td> <td>6/5/93</td> <td>J.F.G.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REVISIONS						REV	ECO	DESCRIPTION	DRAFT	DATE	APPROVED	A		RLSE, R10303	DAW	1/09/92		A1	12552	REV C2, SH2	XH4	6/5/93	J.F.G.																							
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<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. MARK ASSEMBLY REV IN THIS AREA, PERMANENTLY AND LEGIBLY.</li> <li>2. EXCEPT WHERE NOTED, TRIM ALL COMPONENT LEADS TO .06 MAX FROM SOLDER SIDE OF BOARD.</li> <li>3. SQUARE PAD DENOTES PIN 1 OF SOCKETS AND CATHODE OF DIODES.</li> <li>4. COMPONENT (XU2) SHOWN IN DASHED OUTLINE IS TO BE MOUNTED ON THE SOLDER SIDE OF BOARD.</li> <li>5. FOR SCHEMATIC SEE 1321280.</li> </ol>		<p>FOR PARTS LIST SEE SHEET 2.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">DRAWN D.A. WALKER</td> <td style="width: 10%;">DATE 01/09/92</td> <td style="width: 10%;">DO NOT SCALE THIS DRAWING</td> <td rowspan="2" style="width: 60%; text-align: center; vertical-align: middle;"> <b>EATON</b>  <small>Eaton Corporation Electrical &amp; Industrial Divisions Eaton Manufacturing Division</small> </td> </tr> <tr> <td>CHEK <i>[Signature]</i></td> <td>PLANT 72</td> <td>DIMENSIONS ARE IN INCHES (IN)</td> </tr> <tr> <td colspan="2" style="text-align: center;">ENG MECH</td> <td colspan="2" style="text-align: center;">UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td colspan="2" style="text-align: center;">ENG ELEC</td> <td colspan="2" style="text-align: center;"> <math>.1\frac{1}{2}</math> <math>\frac{1}{16}</math> <math>\frac{1}{32}</math>  <math>.1\frac{1}{2}</math> <math>.062</math> <math>.031</math> </td> </tr> <tr> <td style="text-align: center;">1035120 NV-GSD</td> <td style="text-align: center;">PROJ ENG</td> <td colspan="2" style="text-align: center;">ALL MACH. SURFACES BY CONCENTRICITY .000 TIR GEARWHEELS AND GEAR ALL SHARP EDGES</td> </tr> <tr> <td style="text-align: center;">NEXT ASSY</td> <td style="text-align: center;">SYSTEM</td> <td colspan="2" style="text-align: center;">APPROVED</td> </tr> <tr> <td colspan="2" style="text-align: center;">APPLICATION</td> <td colspan="2"></td> </tr> <tr> <td colspan="2" style="text-align: center;">MATERIAL #</td> <td colspan="2"></td> </tr> <tr> <td colspan="2" style="text-align: center;">FINISH #</td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">SIZE DRAWING NO.</td> <td style="text-align: center;">REV</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">C 1521280</td> <td style="text-align: center;">A1</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">SCALE 2/1</td> <td style="text-align: center;">SHEET 1 OF 2</td> </tr> </table>	DRAWN D.A. WALKER	DATE 01/09/92	DO NOT SCALE THIS DRAWING	<b>EATON</b> <small>Eaton Corporation Electrical &amp; Industrial Divisions Eaton Manufacturing Division</small>	CHEK <i>[Signature]</i>	PLANT 72	DIMENSIONS ARE IN INCHES (IN)	ENG MECH		UNLESS OTHERWISE SPECIFIED		ENG ELEC		$.1\frac{1}{2}$ $\frac{1}{16}$ $\frac{1}{32}$ $.1\frac{1}{2}$ $.062$ $.031$		1035120 NV-GSD	PROJ ENG	ALL MACH. SURFACES BY CONCENTRICITY .000 TIR GEARWHEELS AND GEAR ALL SHARP EDGES		NEXT ASSY	SYSTEM	APPROVED		APPLICATION				MATERIAL #				FINISH #						SIZE DRAWING NO.	REV			C 1521280	A1			SCALE 2/1	SHEET 1 OF 2
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**Assy Linac DI PCB - 1522320**



# **Linac Vac Rear Panel Interconnect PCB - 1522350**

8	7	6	5	↓	4	3	2	1												
<b>PROPRIETARY</b> THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION PROPRIETARY TO EATON CORPORATION. IT MUST NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED IN ANY OTHER WAY, IN WHOLE OR IN PART EXCEPT AS AUTHORIZED IN WRITING BY EATON CORPORATION.				<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>REV</th><th>ECO</th><th>DESCRIPTION</th><th>DRAFT</th><th>DATE</th><th>APPROVED</th></tr> </thead> <tbody> <tr> <td>A</td><td></td><td>RELEASE #11284</td><td>KHG</td><td>11/8/93</td><td>D.K.B.</td></tr> </tbody> </table>					REV	ECO	DESCRIPTION	DRAFT	DATE	APPROVED	A		RELEASE #11284	KHG	11/8/93	D.K.B.
REV	ECO	DESCRIPTION	DRAFT	DATE	APPROVED															
A		RELEASE #11284	KHG	11/8/93	D.K.B.															



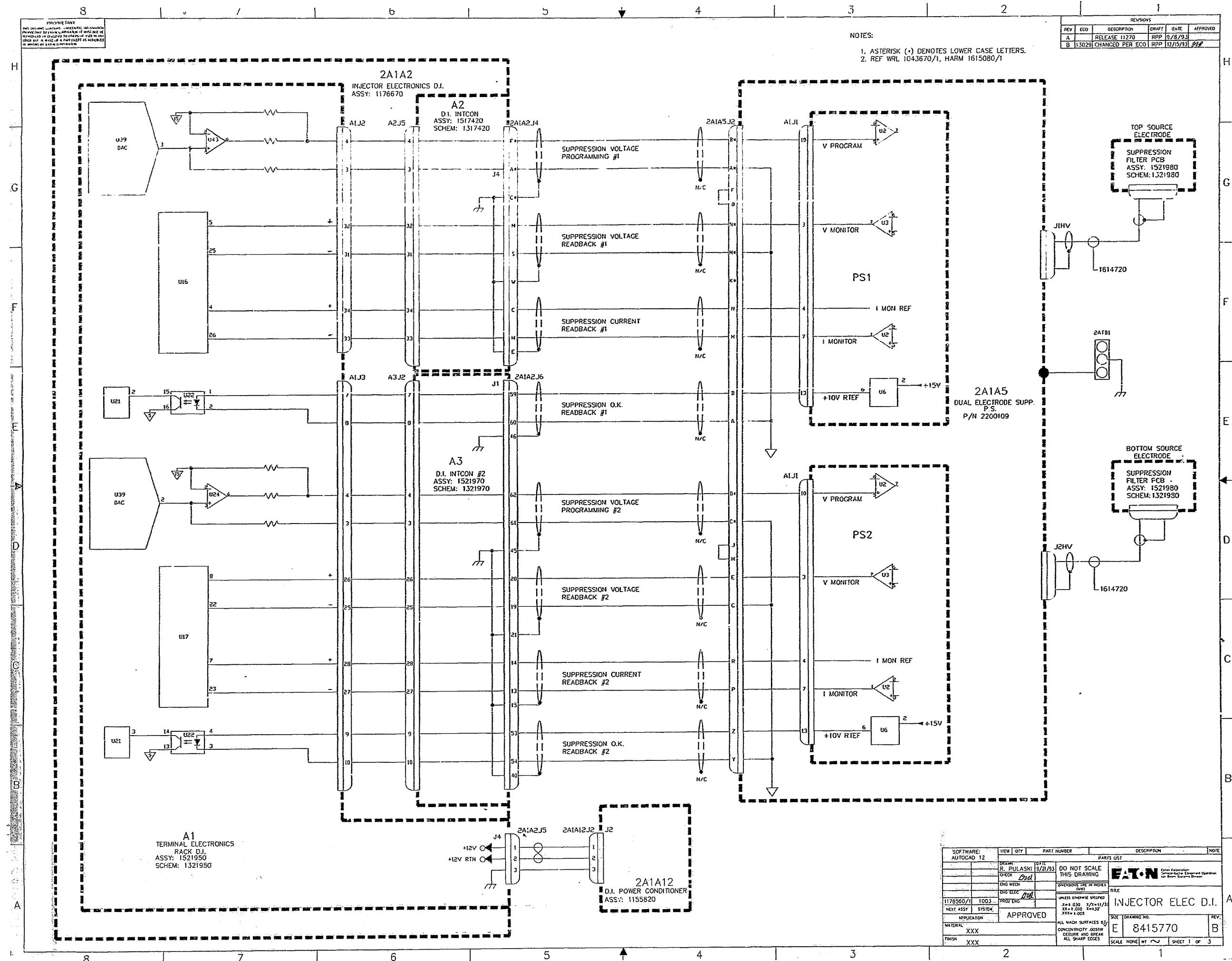
## NOTES:

1. MARK ASSEMBLY REV IN THIS AREA, PERMANENTLY AND LEGIBLY.
  2. TRIM ALL DISCRETE COMPONENT LEADS TO .06 MAX FROM THE SOLDER SIDE OF THE BOARD.
  3. THE SQUARE PADS DENOTES PIN 1 OF I.C.'S, PIN 1 OR A OF CONNECTORS, CATHODE OF DIODES, Emitter OF TRANSISTORS, POSITIVE LEAD OF POLARIZED CAPACITORS, AND PIN 1 OF ALL OTHER COMPONENTS.
  4. FOR SCHEMATIC SEE 1322350.
  5. COMPONENTS SHOWN WITH DASHED OUTLINES (J1-5) ARE MOUNTED ON THE SOLDER SIDE OF THE BOARD.
  6. POLARIZATION CODES ARE AS FOLLOWS:  
J1 2 3 4 5 - PINS C & H / CODE A

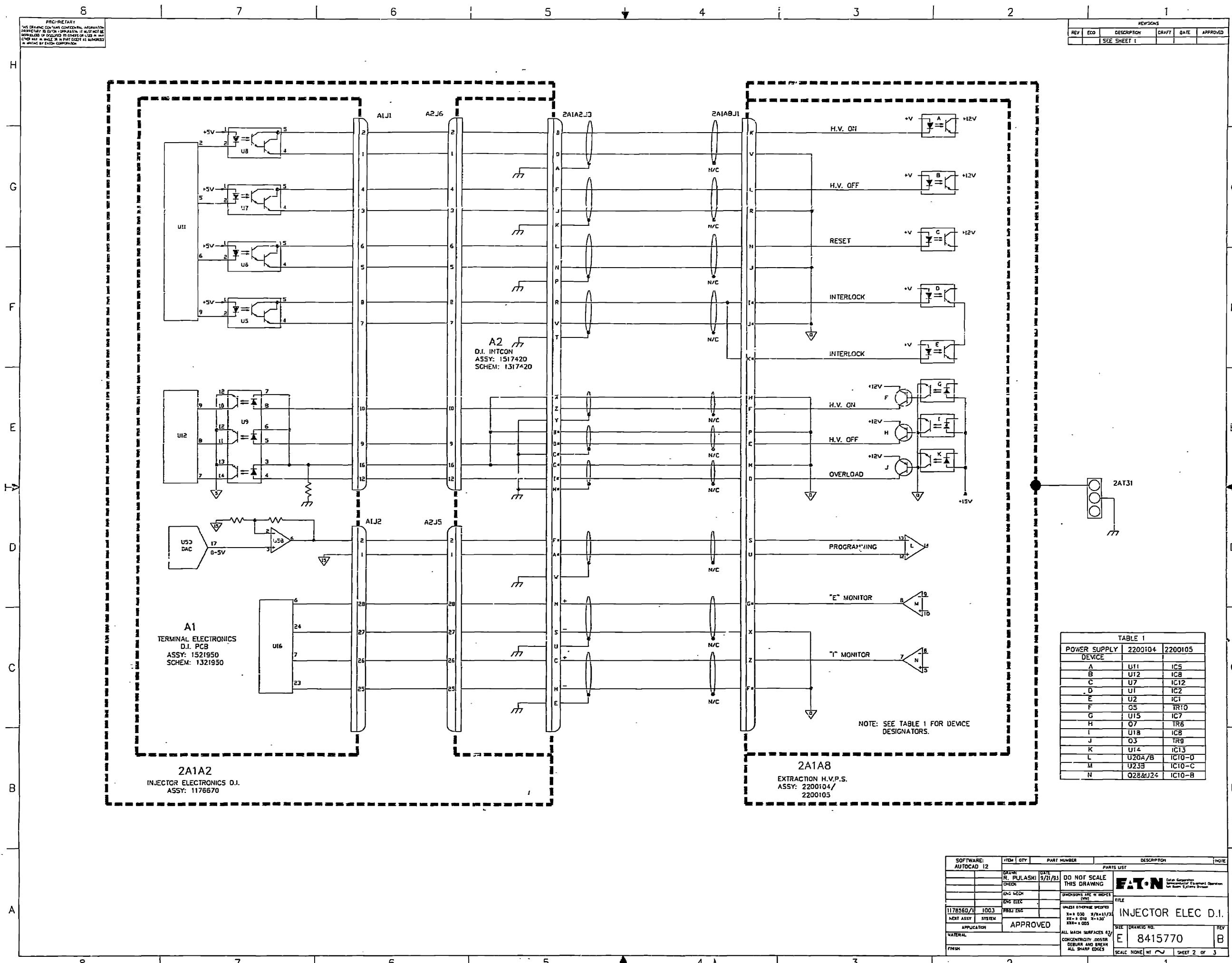
ITEM	PART NUMBER	REFERENCE DESIGNATIONS	PART DESCRIPTION	VALUE	QTY
1	5100253	J6-10	HDR, 26P, M		5
2	5100603	J1-5	CONN, 34, MALE	POL CODE A	5
	1322350		SCHEMATIC		REF
	1422350		PCB		1

SOFTWARE: AutoCAD 12		ITEM	QTY	PART NUMBER	DESCRIPTION		NOTE
		PARTS LIST					
		K.GRAY	DRAWN 11/1/93	DO NOT SCALE THIS DRAWING	 Eaton Corporation Semiconductor Equipment Division		
		CHECK	DATE	DIMENSIONS ARE IN INCHES (MILLIMETERS)			
		ENG MECH	DATE	<b>TITLE</b>  LINAC VAC REAR PANEL INTERCONNECT PCB			
		ENG ELEC	DATE				
		D.BERNHARDT	11/8/93				
1178620	NVGSDHE	UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE . $x$ = $\pm .030$ $X/x$ = $\pm 1/32$					
NEXT ASSY	SYSTEM	PROJ ENG	DATE	. $X$ = $\pm .010$ $X/x$ = $\pm 30^{\circ}$			
APPLICATION		APPROVED		. $XXX$ = $\pm .005$			
MATERIAL				ALL MACH SURFACES <sup>63</sup> CONCENTRICITY .005 <sup>ITR</sup>			
FINISH NONE				DEBURR AND BREAK ALL SHARP EDGES			
SCALE 2:1		WT ~		SHEET 1 OF 1		REV A	

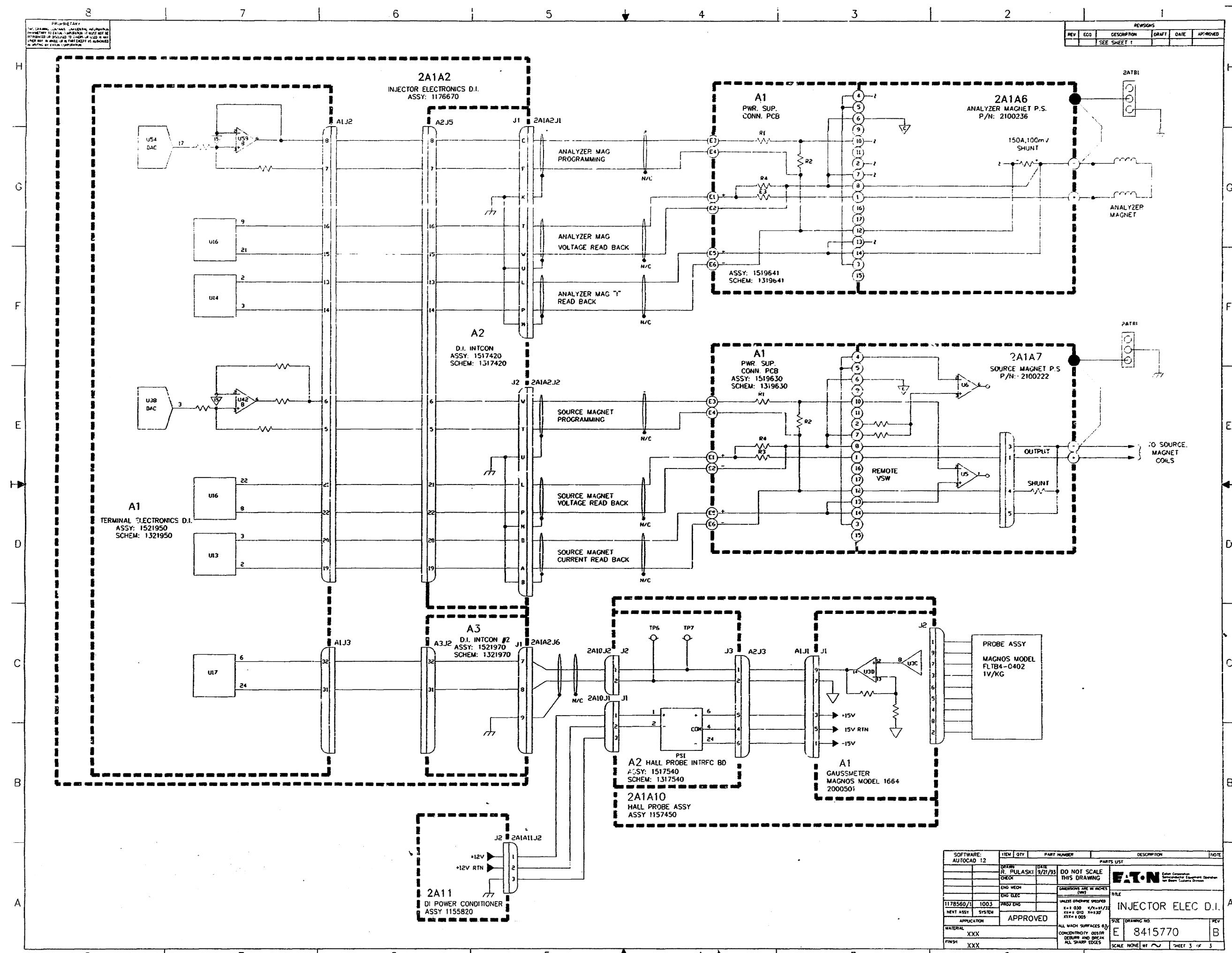
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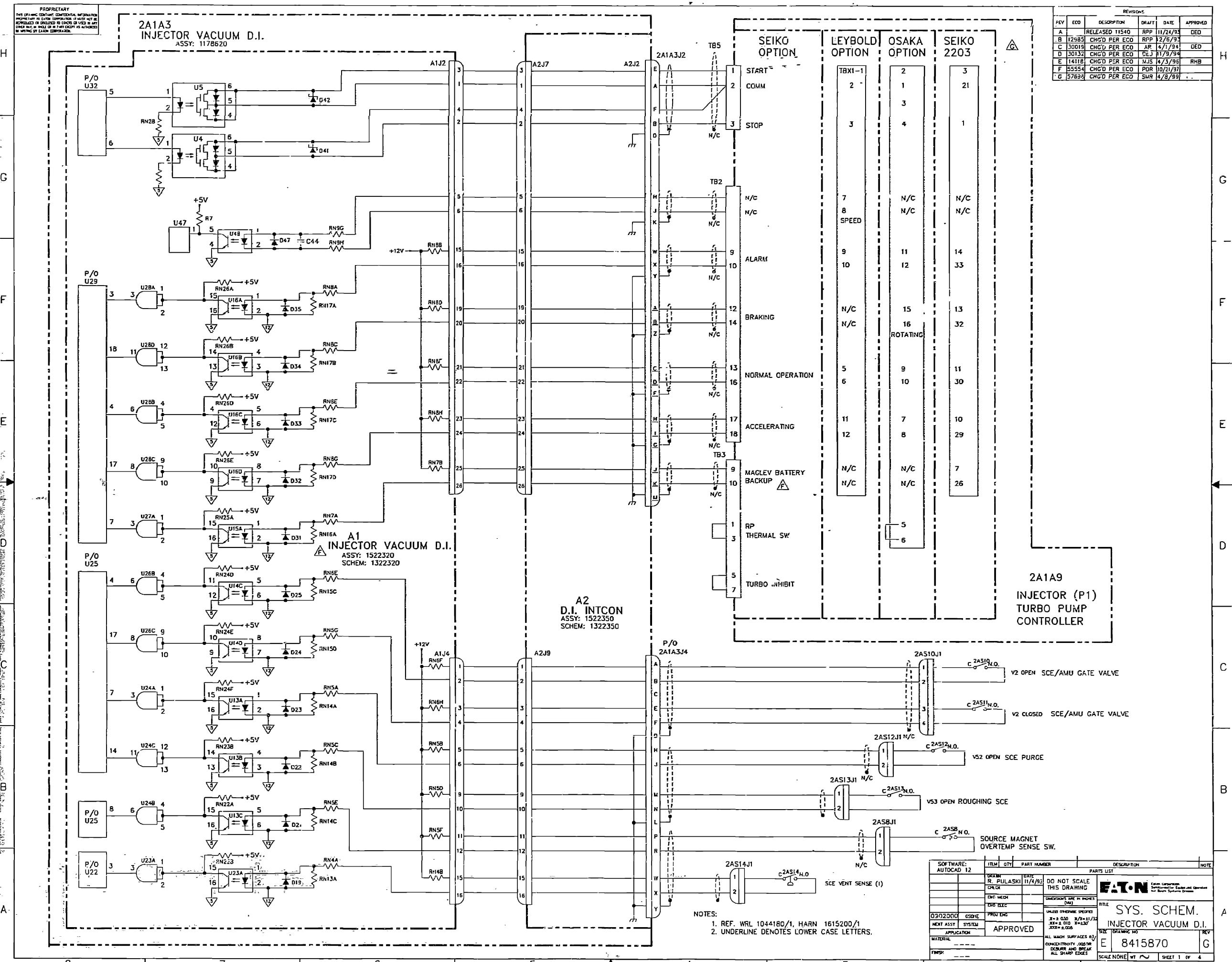
**Injector Elec DI - 8415770**



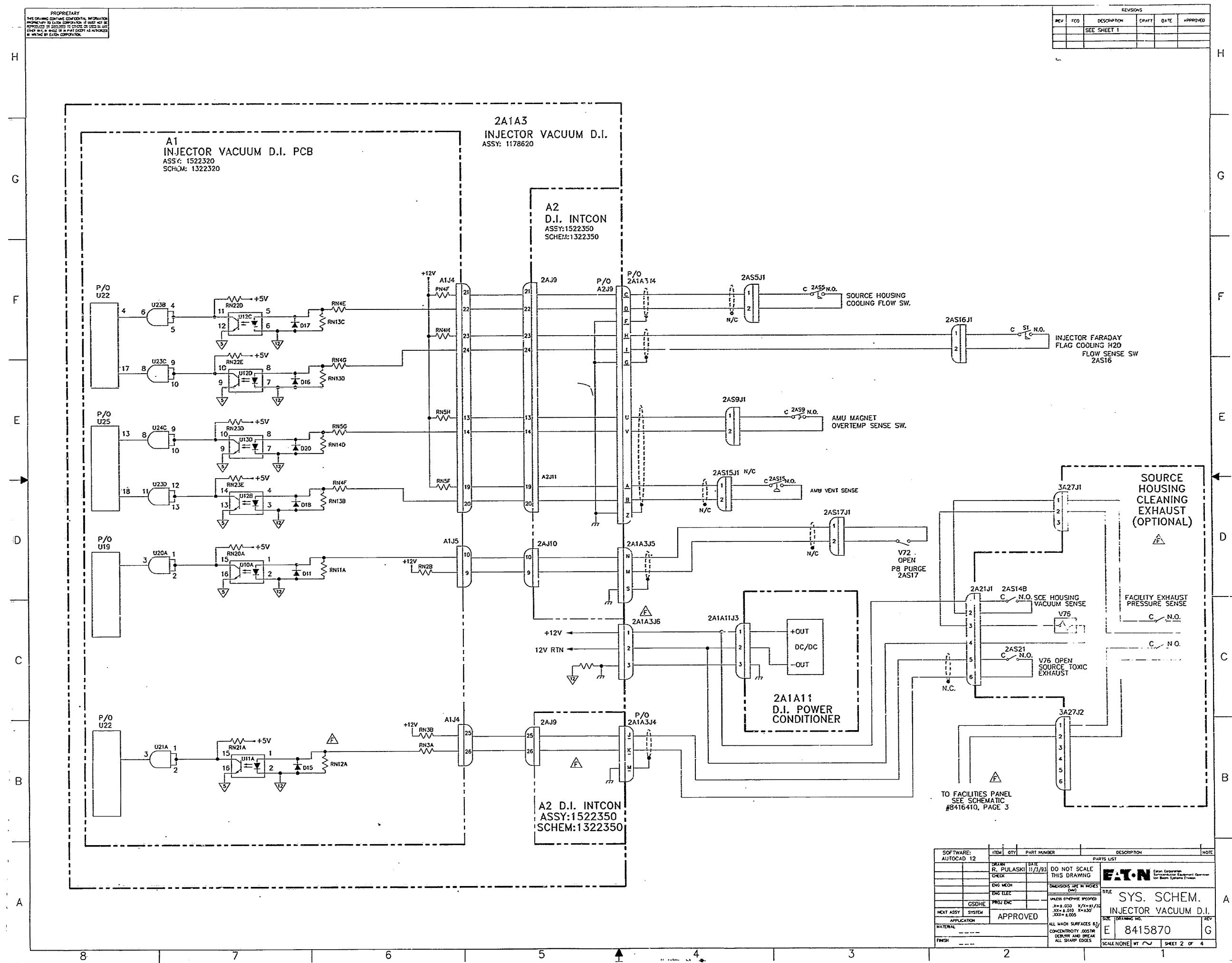
## Injector Elec DI - 8415770



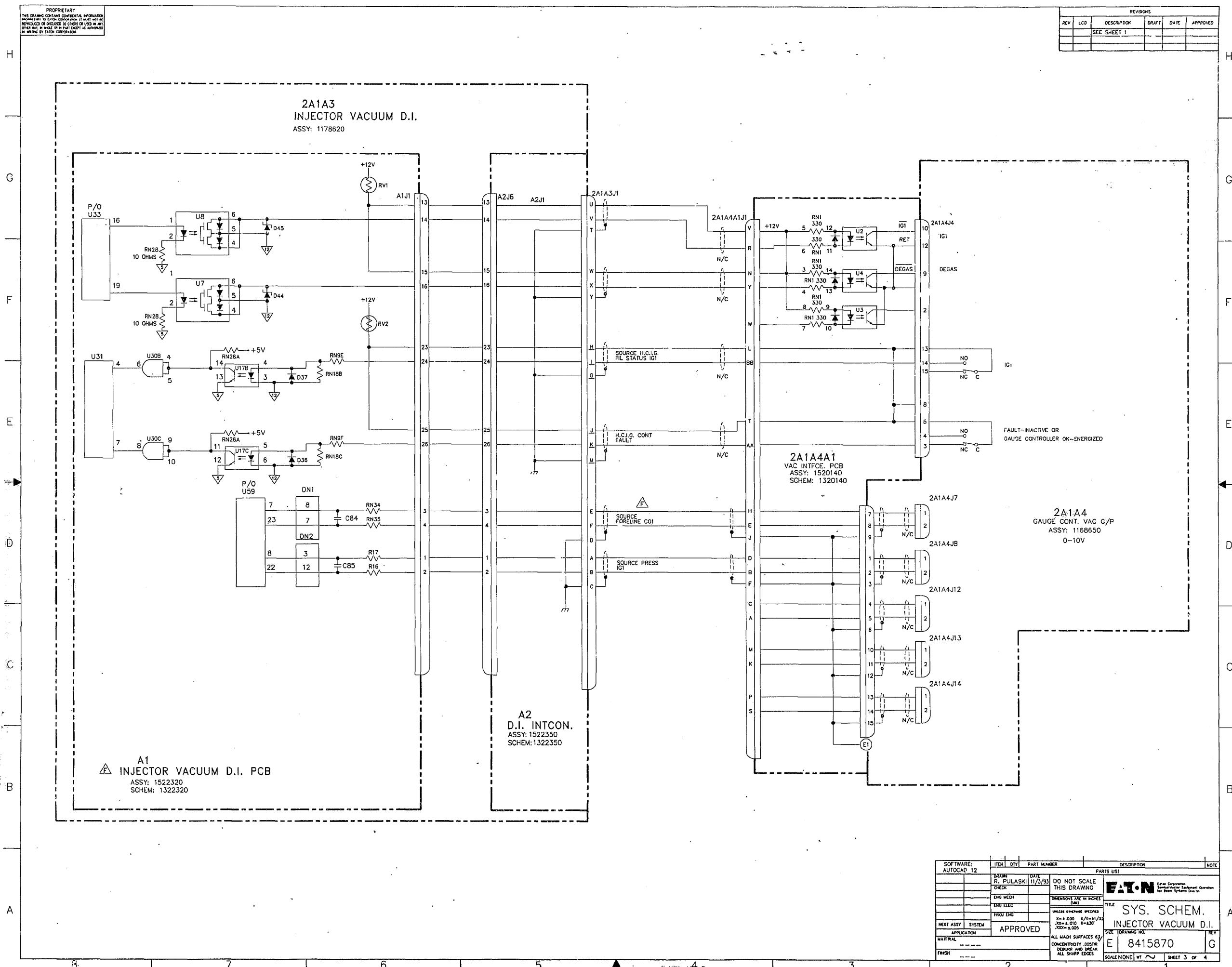
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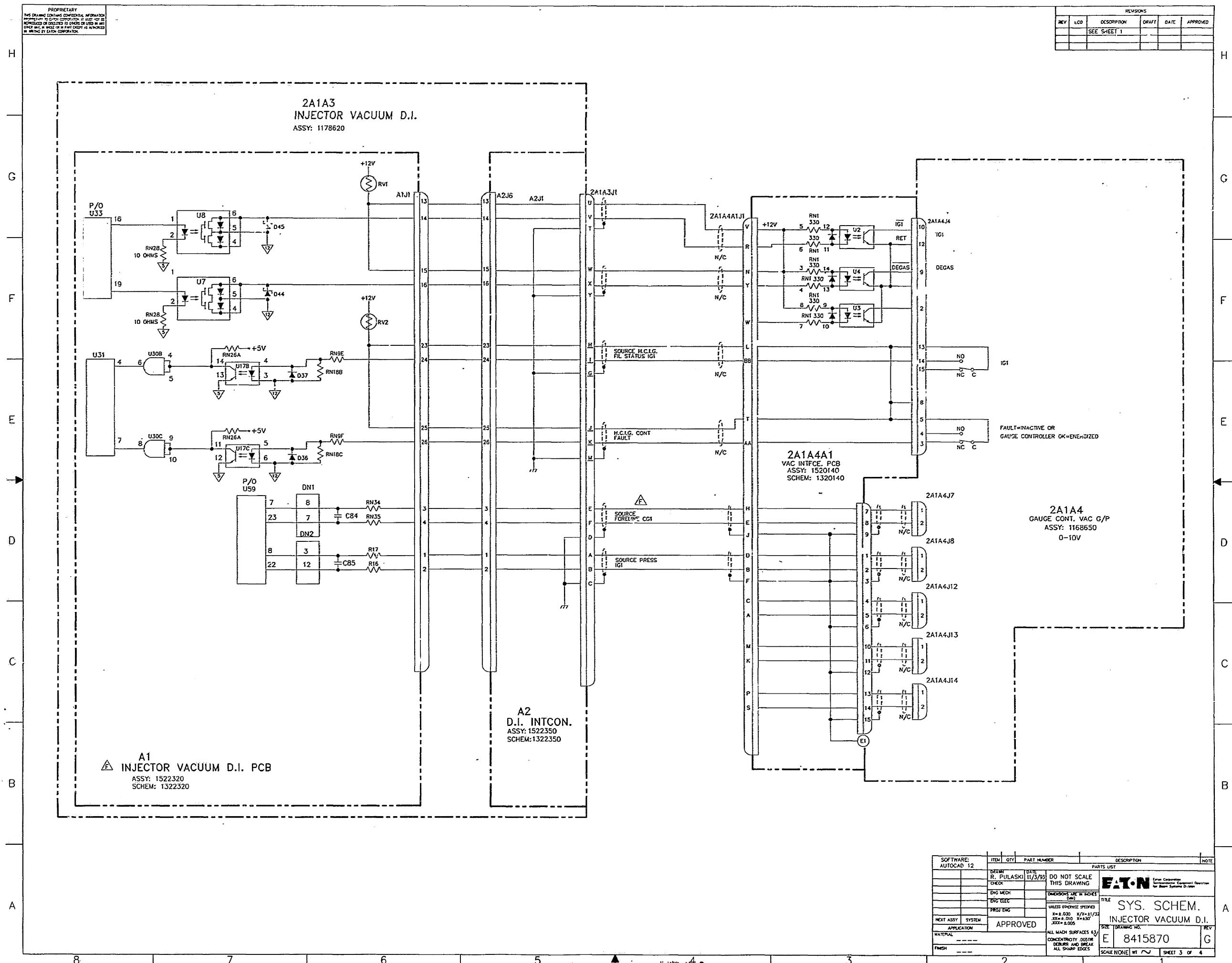
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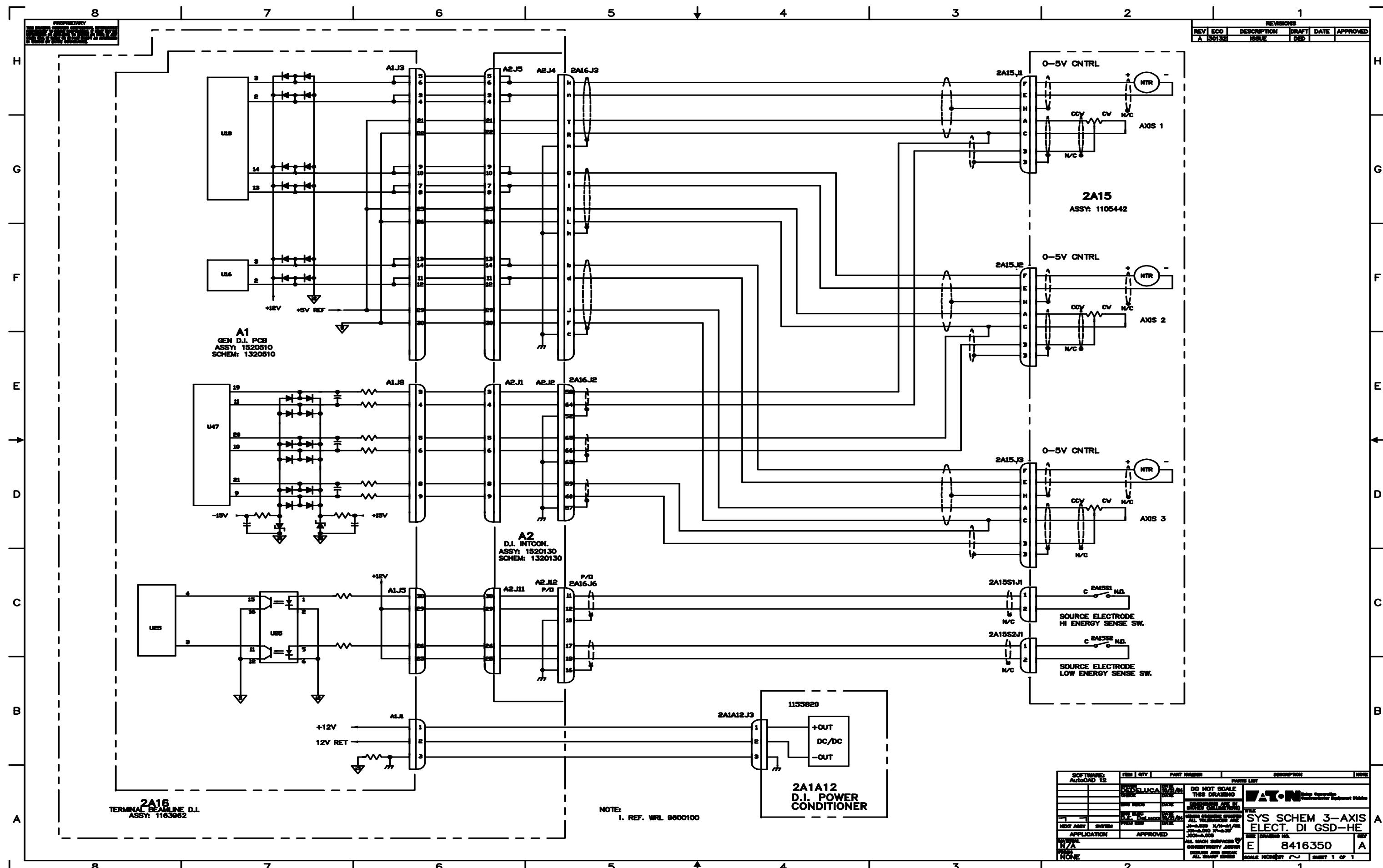
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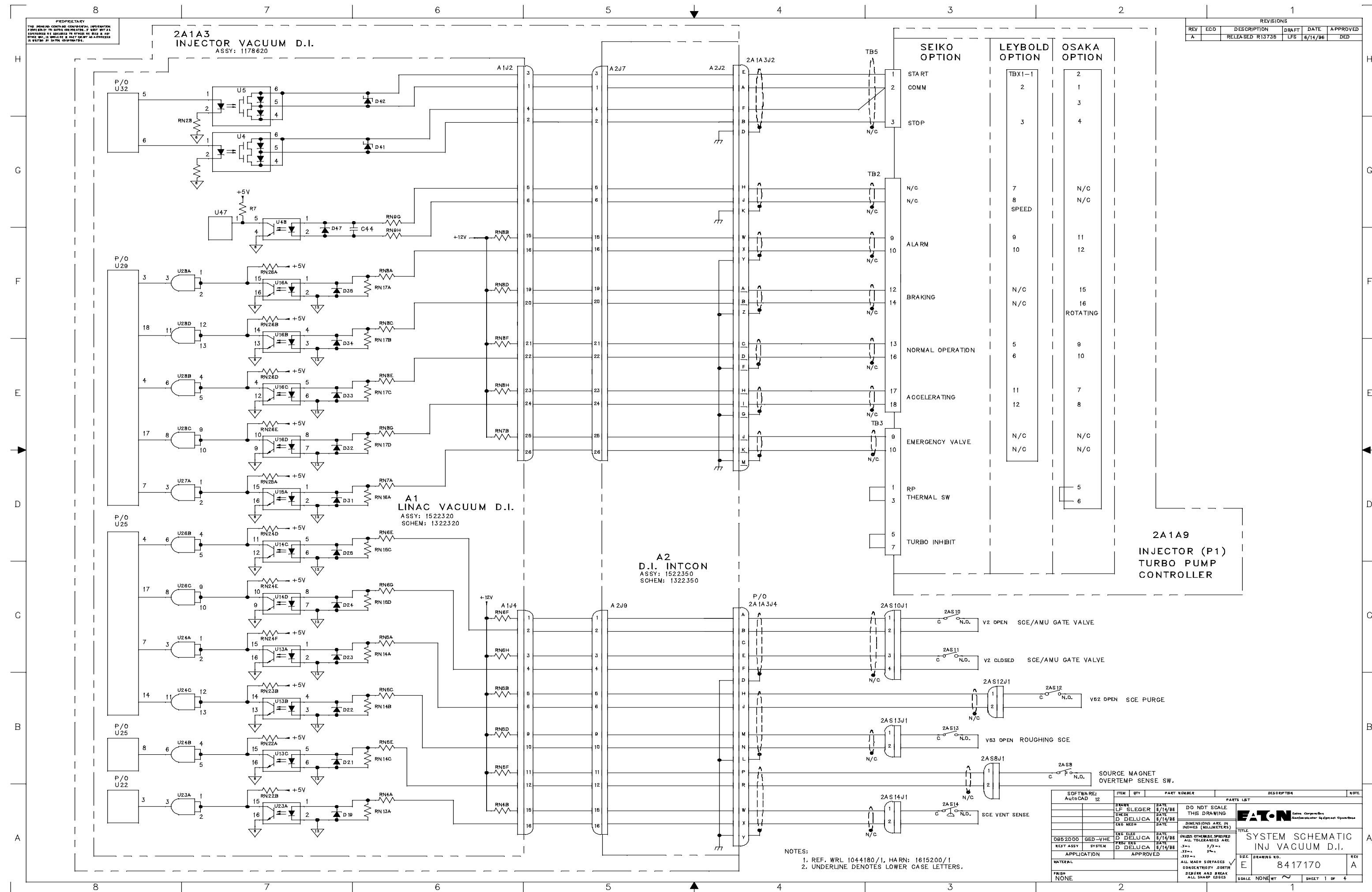
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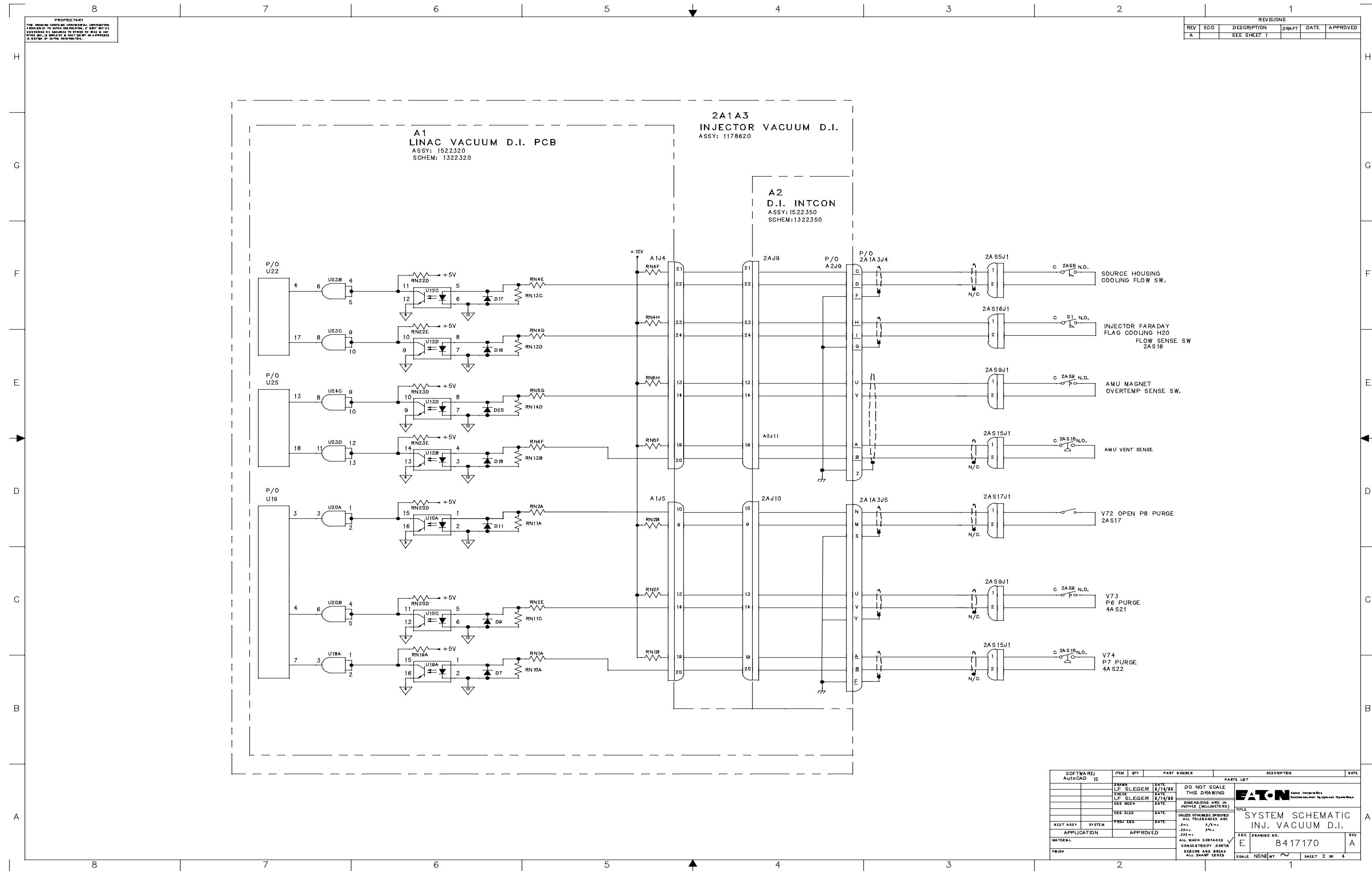
# System Schematic 3-AK Electronic D.I. GSD-HE - 8416350



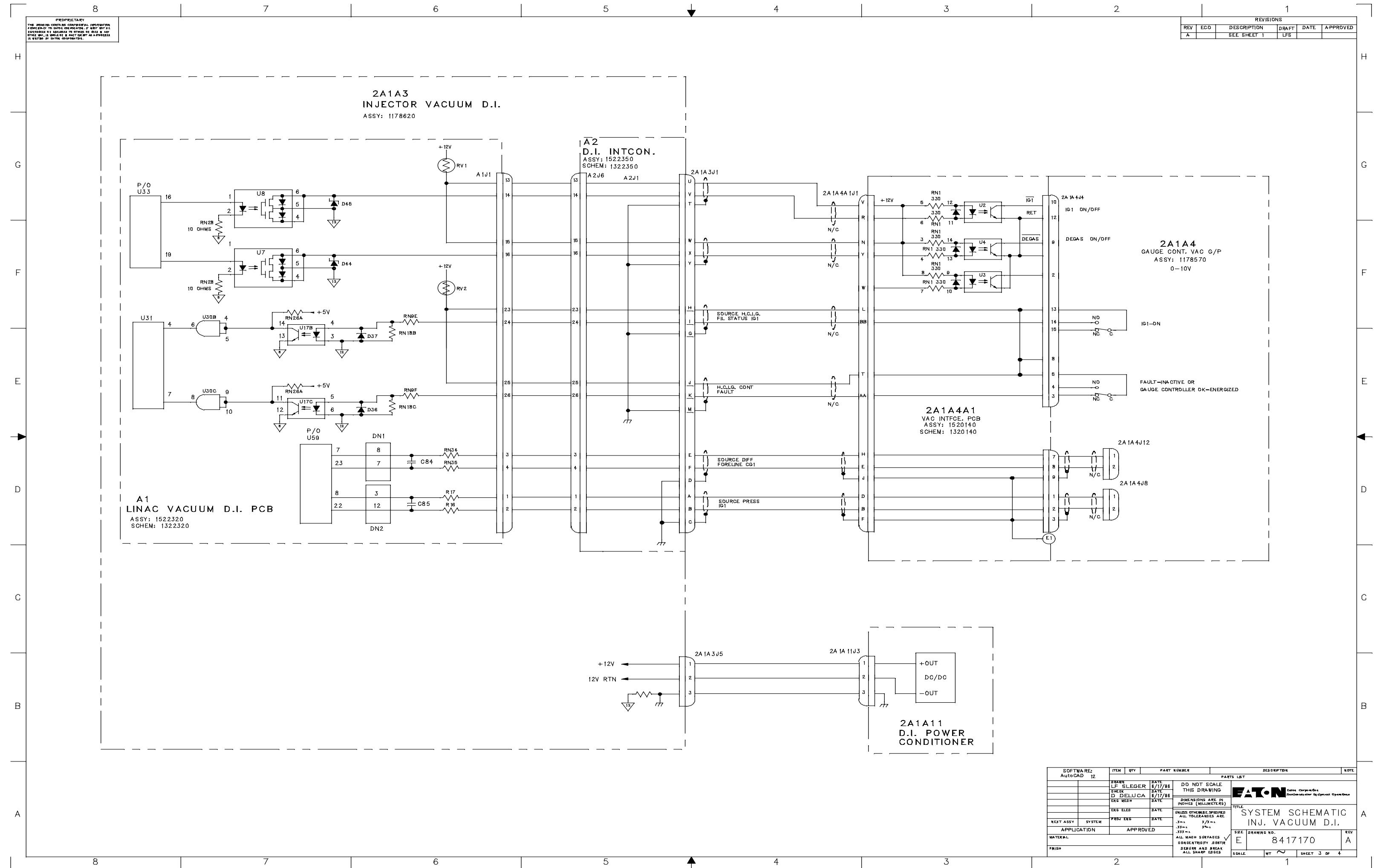
# System Schematic Injector Vacuum D.I. - 8417170



# System Schematic Injector Vacuum D.I. - 8417170



# **System Schematic Injector Vacuum D.I. - 8417170**



## System Schematic Injector Vacuum D.I. - 8417170

