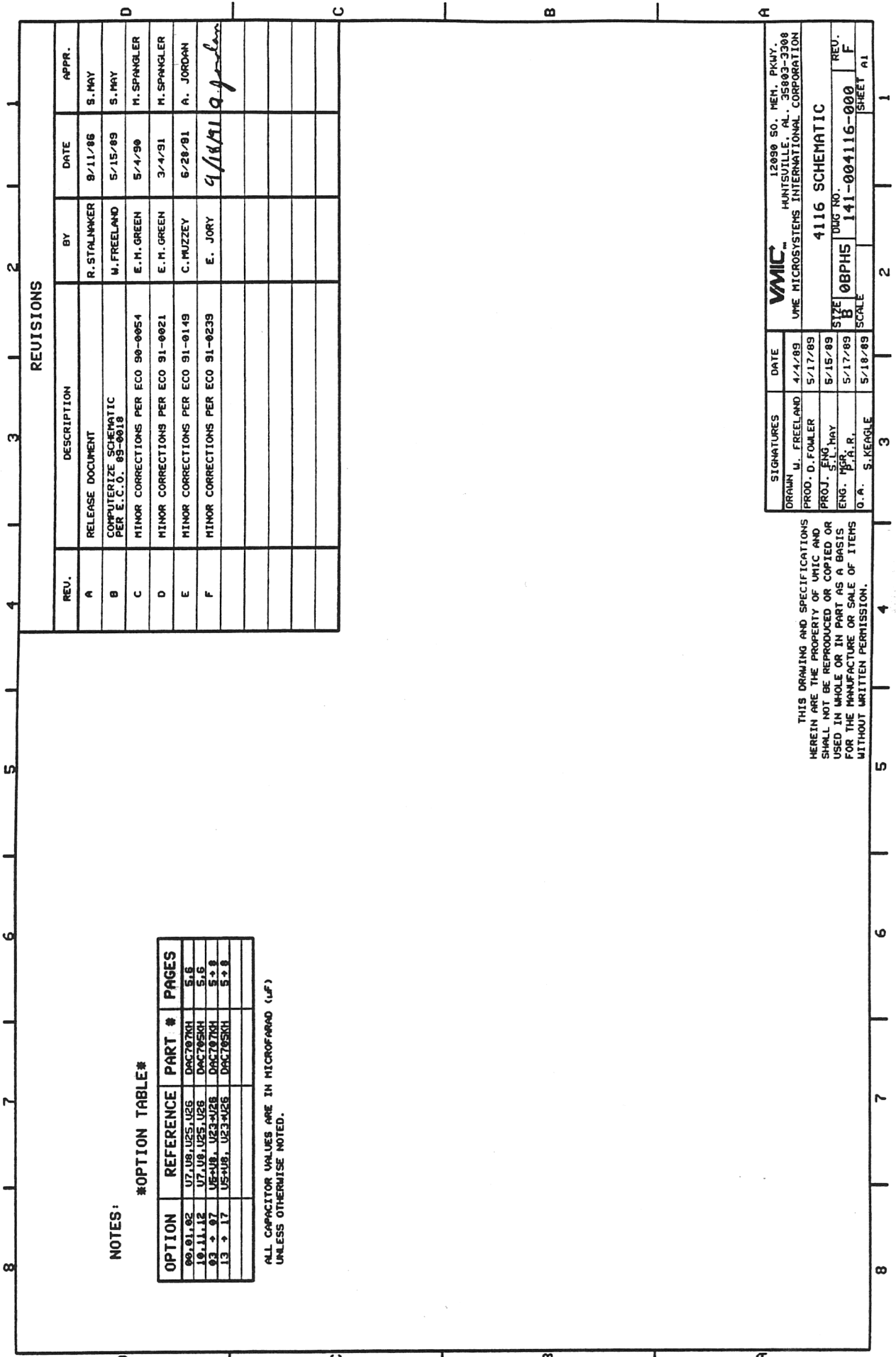




NOTES:

#OPTION TABLE#

OPTION	REFERENCE	PART #	PAGES
00, 01, 02	U7, U8, U25, U26	DAC7070H	5 of 8
10, 11, 12	U7, U8, U25, U26	DAC7050H	5 of 8
03, 04, 05	U7, U8, U25, U26	DAC7070H	5 of 8
13, 14, 15	U7, U8, U25, U26	DAC7050H	5 of 8

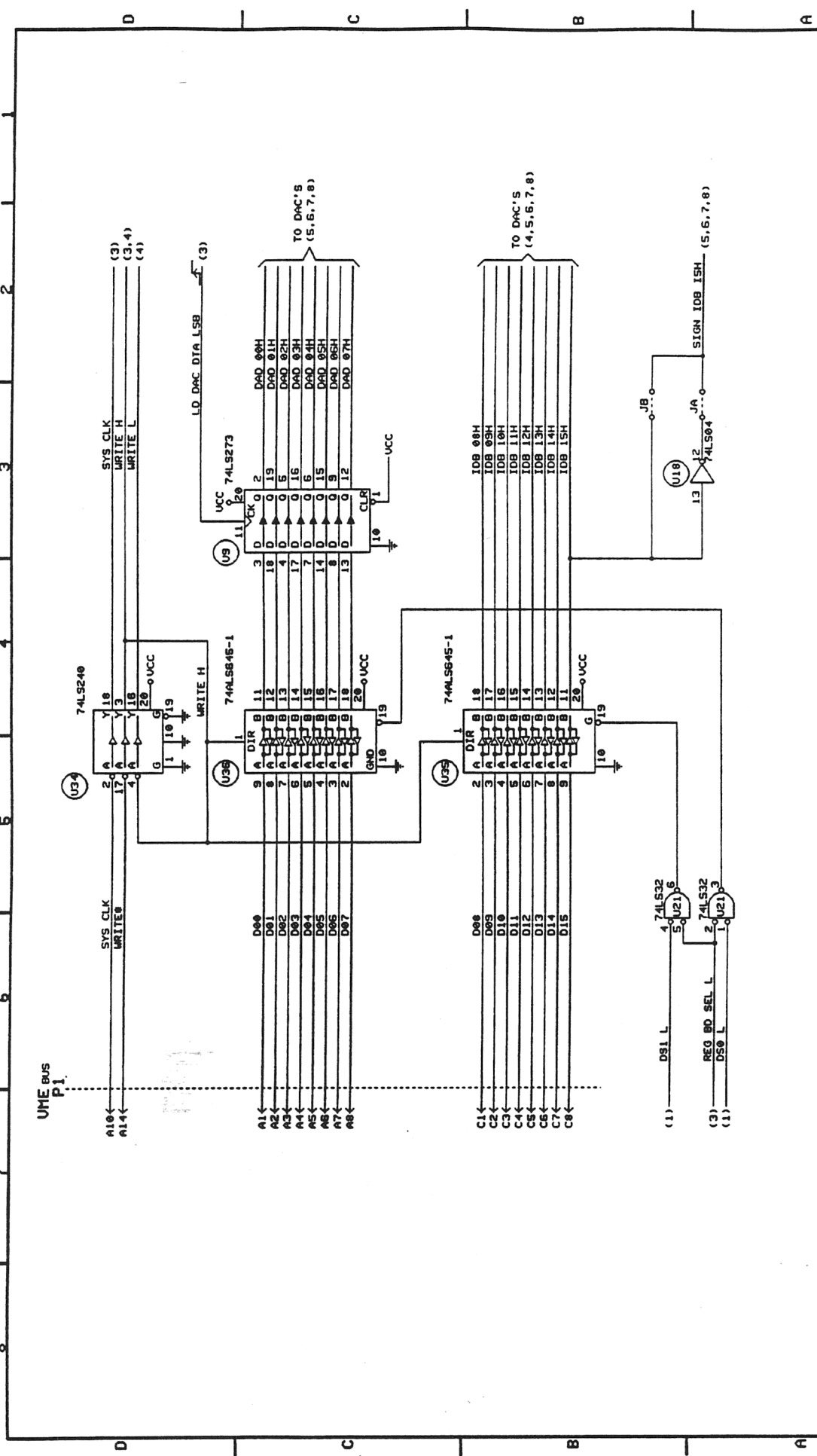
ALL CAPACITOR VALUES ARE IN MICROFARAD (uF)
UNLESS OTHERWISE NOTED.

REVISIONS

REV.	DESCRIPTION	BY	DATE	APPR.
A	RELEASE DOCUMENT	R. STALNWER	8/11/88	S. MAY
B	COMPUTERIZE SCHEMATIC PER E.C.O. 88-0018	M. FREELAND	5/15/89	S. MAY
C	MINOR CORRECTIONS PER ECO 90-0054	E.M. GREEN	5/4/90	M. SPANGLER
D	MINOR CORRECTIONS PER ECO 91-0021	E.M. GREEN	3/4/91	M. SPANGLER
E	MINOR CORRECTIONS PER ECO 91-0149	C. MUZZEY	6/28/91	A. JORDAN
F	MINOR CORRECTIONS PER ECO 91-0239	E. JORY	9/18/91	<i>a. Jordan</i>

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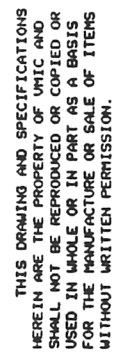
SIGNATURES		DATE	VMIC™ 12090 SO. MEM. PKWY. HUNTSVILLE, AL. 35893-3308 UNE MICROSYSTEMS INTERNATIONAL CORPORATION	
DRAWN U. FREELAND	4/4/89	5/17/89	4116 SCHEMATIC	
PROJ. D. FOWLER	5/17/89	5/17/89	DUG NO.	
ENG. S.L. MAY	5/17/89	5/17/89	REV. F	
ENG. J.B. R.	5/17/89	5/17/89	SCALE	
O.A. S. KEAGLE	5/18/89	5/18/89	SHEET 1	



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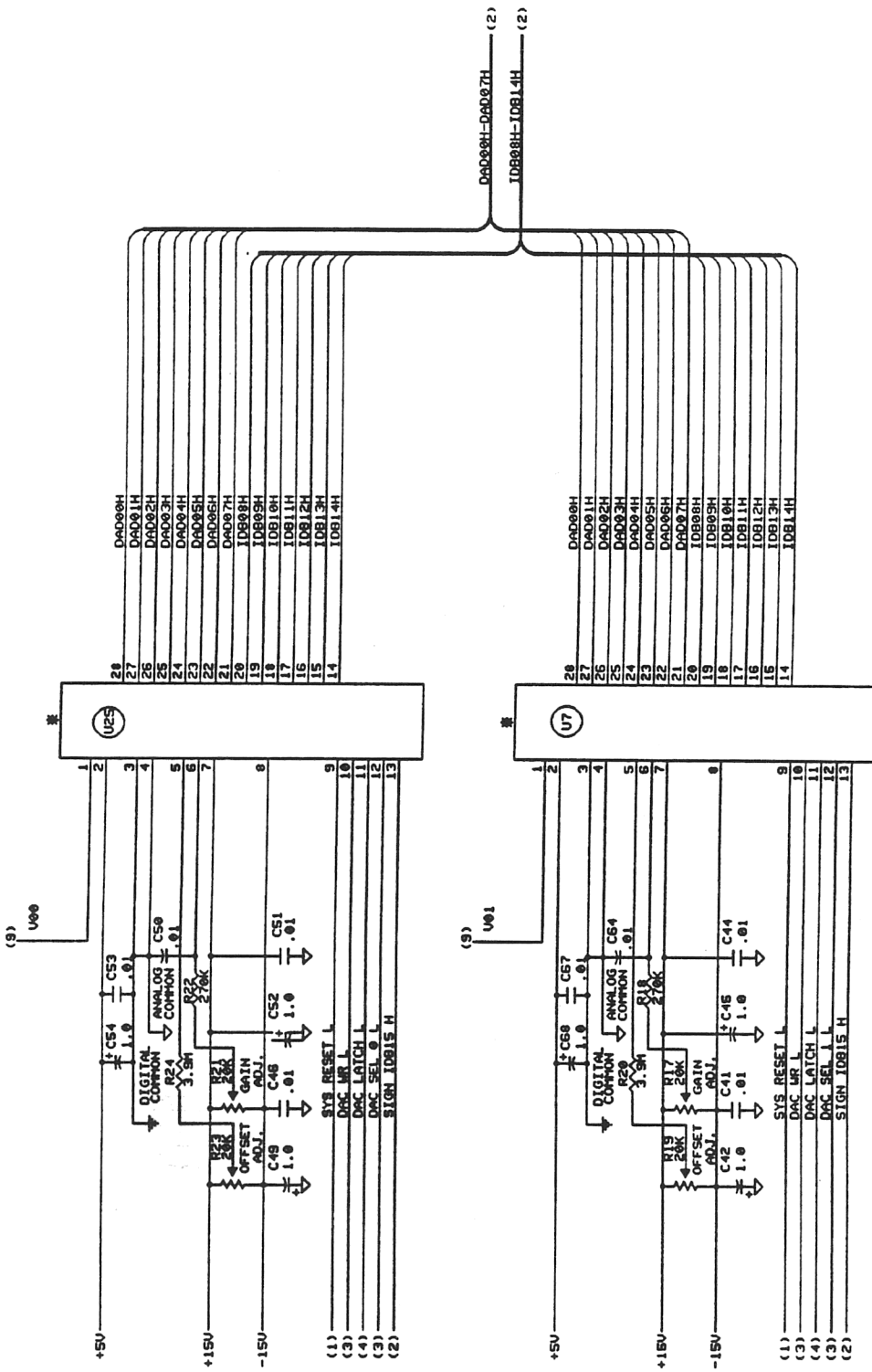
SIGNATURES		DATE	
DRAWN M. FREELAND		4/4/89	
CHECKED C. J. WILSON		9-10-77	
SIZE B		SCALE	
DWG NO. 141-004116-000		REV. F	
SHEET 2		SHEET 2	

VMIC
VME MICROSYSTEMS INTERNATIONAL CORPORATION
12800 SOUTH MEADOWS DRIVE
HUNTSVILLE, ALABAMA 35893-3300



VMI

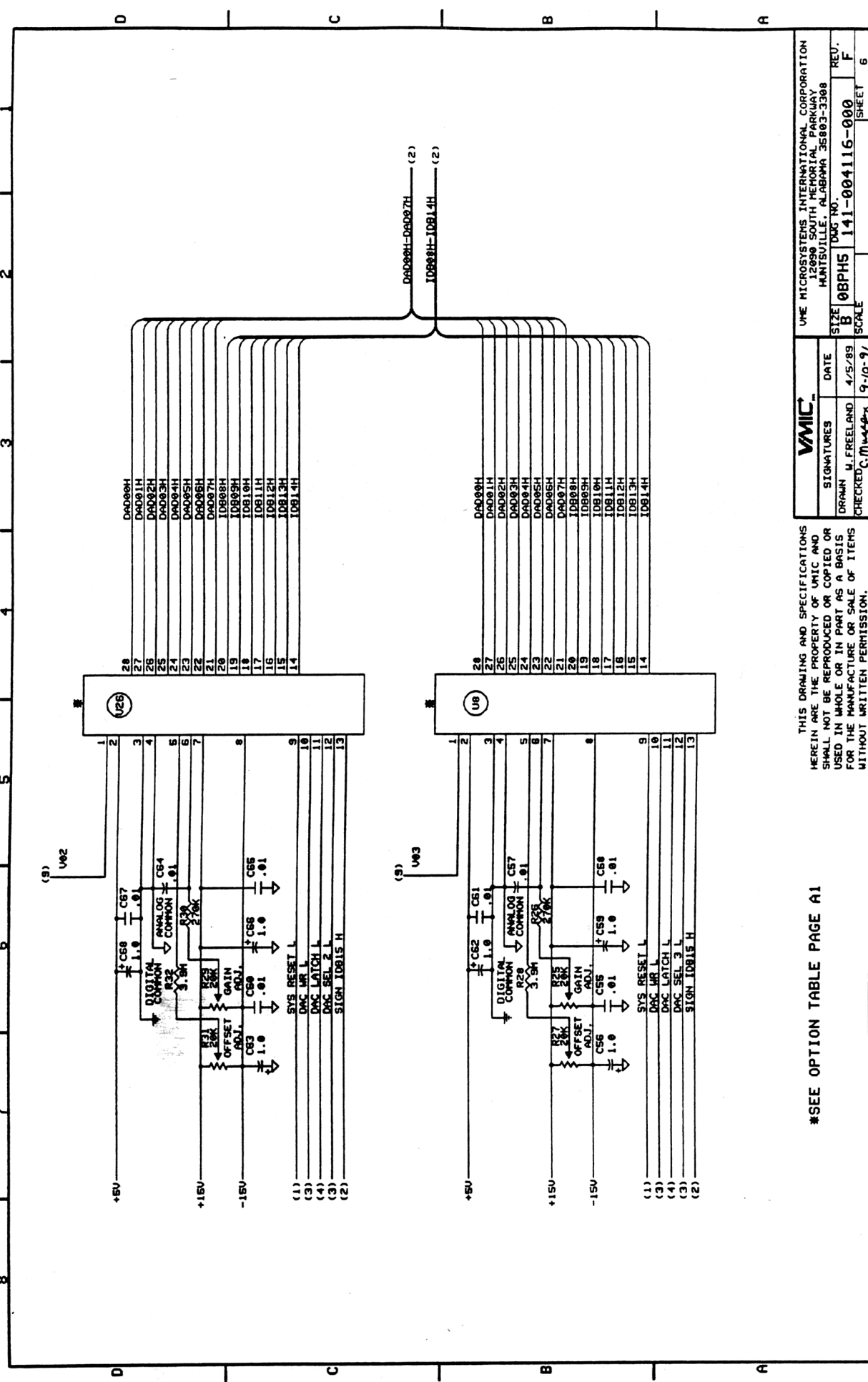
		UME MICROSYSTEMS INTERNATIONAL CORPORATION 12090 SOUTH MEMORIAL PARKWAY HUNTSVILLE, ALABAMA 35893-3308	
SIGNATURES	DATE	SIZE	REV.
DRAIN	4/17/89	B	1
CHECKED <i>C. M. W. W.</i>		08PH5 141-004116-000	DWG NO. 141-004116-000
9.13-91		SCALE 1 SHEET	



VMIC		DATE		SCALE	
SIGNATURES	DATE	SCALE	SCALE	SCALE	SCALE
DRAWN	4/4/89	9-10-91	9-10-91	9-10-91	9-10-91
CHECKED	W. FREELAND	9-10-91	9-10-91	9-10-91	9-10-91
UHE MICROSYSTEMS INTERNATIONAL CORPORATION		SIZE		REV.	
12090 SOUTH MEMORIAL PARKWAY		B		F	
HUNTSVILLE, ALABAMA 35893-3308		08PHS		141-004116-000	
				SHEET 5	

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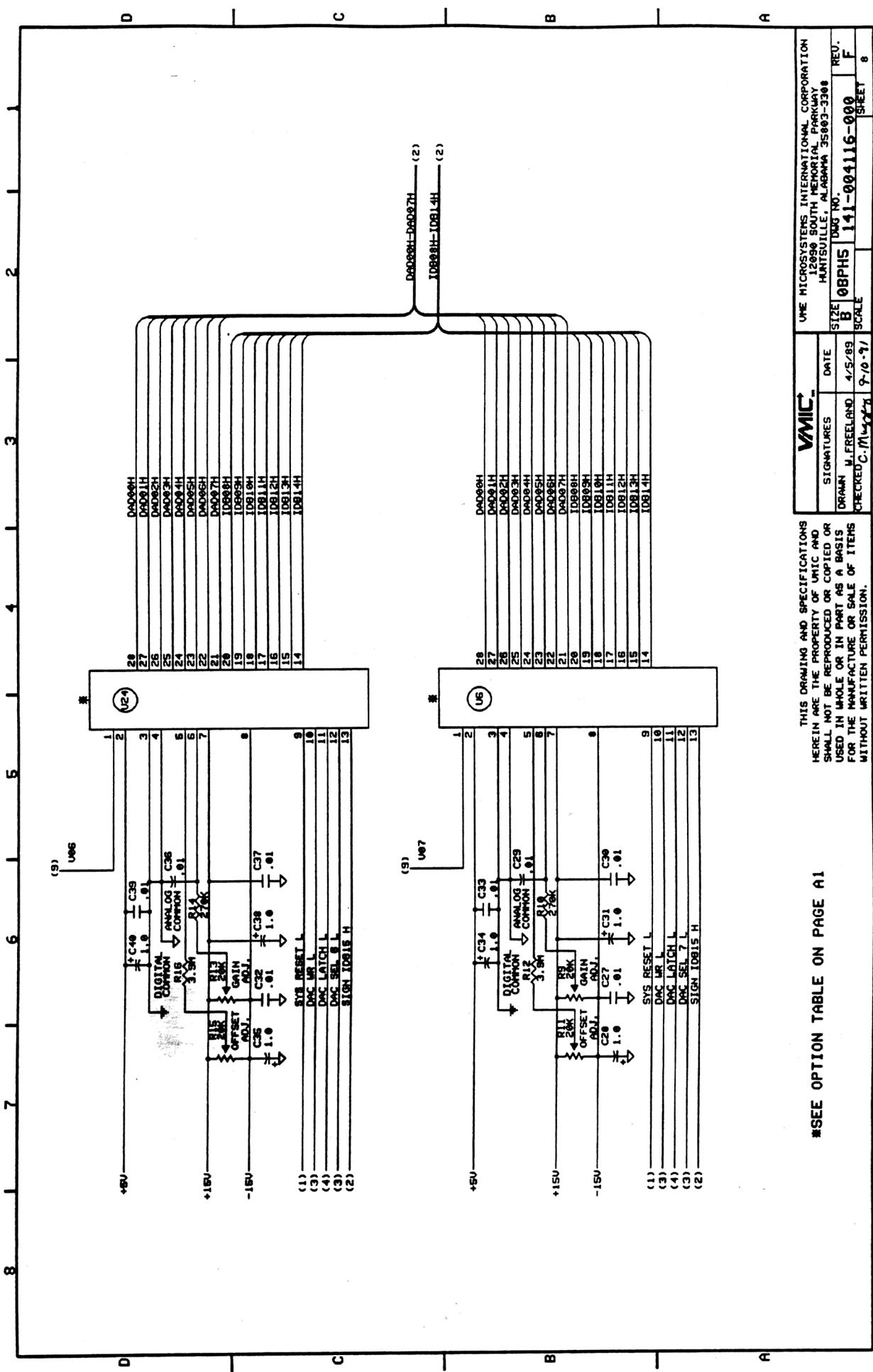
#SEE OPTIONS TABLE ON PAGE A1





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		UHE MICROSYSTEMS INTERNATIONAL CORPORATION 12090 SOUTH MEMORIAL PARKWAY HUNTSVILLE, ALABAMA 35893-3308			
SIGNATURES	DATE	SIZE	DWG NO.	REV.	
DRAWN M. FREELAND	4/5/89	B	08PH5	141-004116-000	F
CHECKED C. M. Mather	9-10-91	SCALE			SHEET 7



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VMIC

SIGNATURES: _____ DATE: 4/5/89

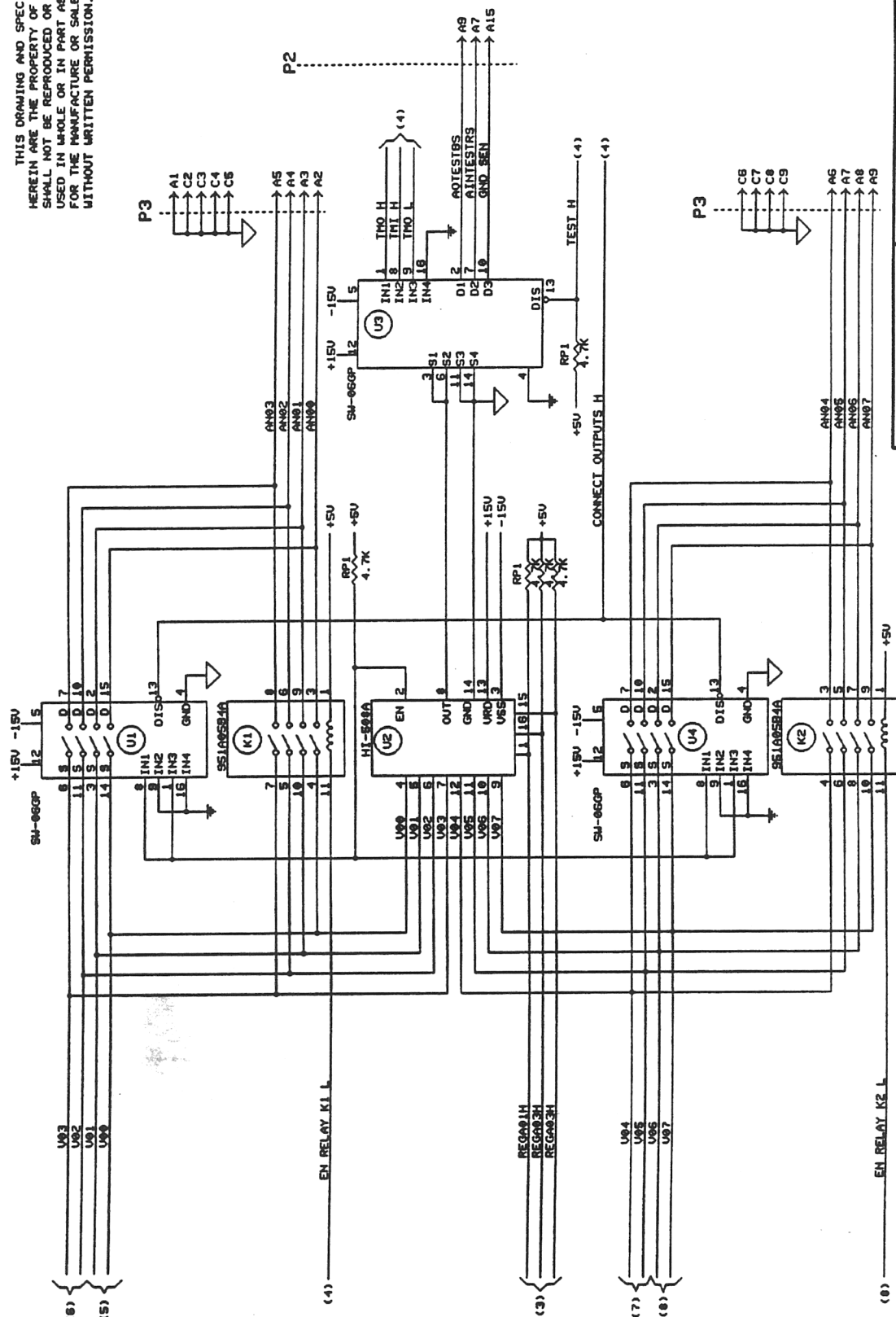
DRAWN: M. FREELAND CHECKED: C. M. W. 7/10/91

SIZE: B 08PHS DWG NO. 141-004116-000 REV. F

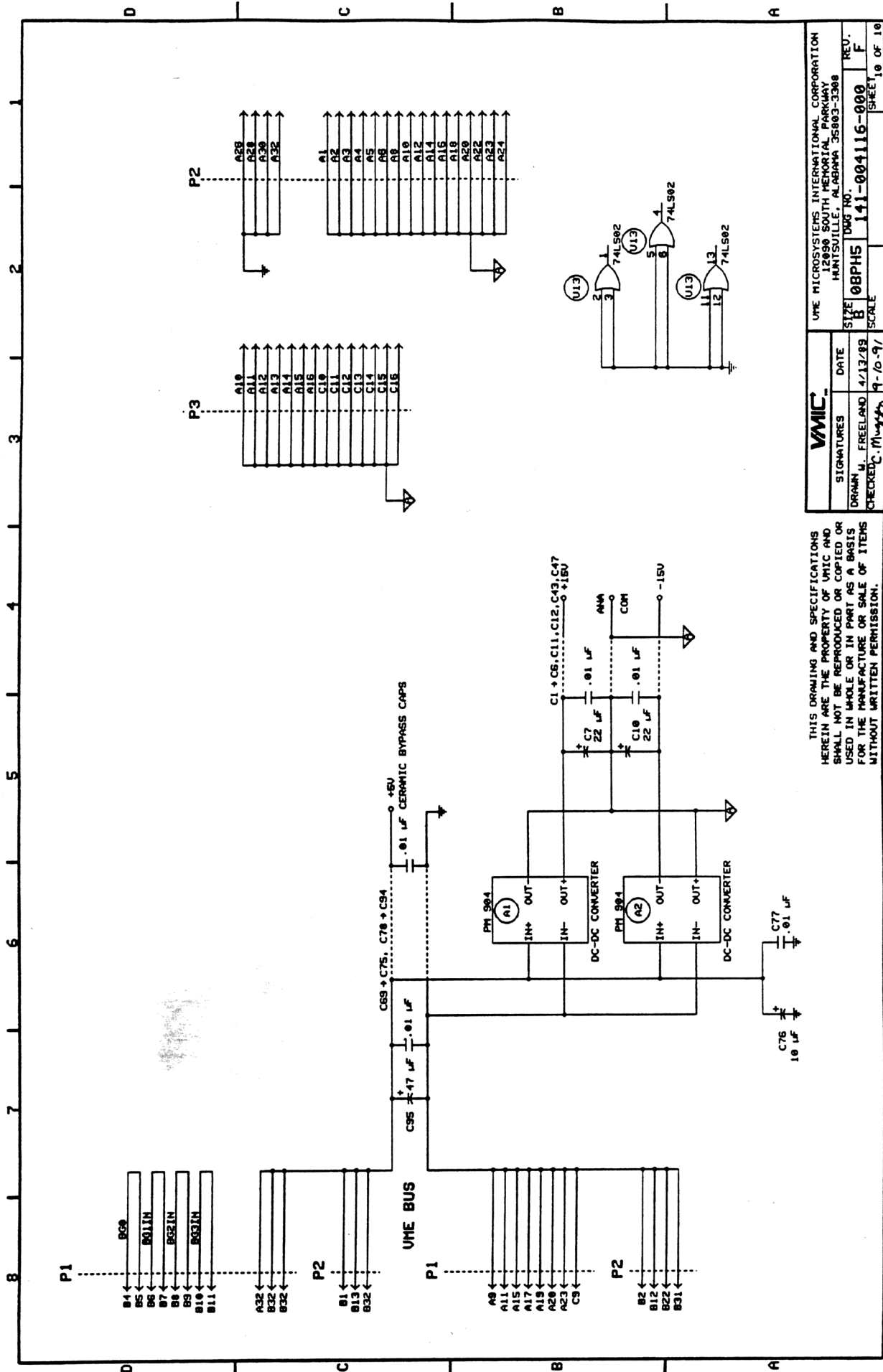
SCALE: SHEET 8

#SEE OPTION TABLE ON PAGE A1

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VMIC		DATE		SIGNATURES		UWE MICROSYSTEMS INTERNATIONAL CORPORATION 12090 SOUTH MEMORIAL PARKWAY HUNTSVILLE, ALABAMA 35893-3309	
DRAWN	U. FREELAND	4/12/89	9-10-91	CHECKED	C. M. HARRIS	SIZE	B
						DWG NO.	141-004116-000
						REV.	F
						SHEET	9



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VMIC		UPE MICROSYSTEMS INTERNATIONAL CORPORATION 12090 SOUTH MEMORIAL PARKWAY HUNTSVILLE, ALABAMA 35893-3308	
SIGNATURES	DATE	SIZE	REV.
DRAWN U. FREELAND	4/13/89	B	08PHS
CHECKED C. M. W. W.	7-10-91	SCALE	141-004116-000
		SHEET 10 OF 10	

REVISIONS

132 REV.	332 REV.	DESCRIPTION	BY	DATE	APPR.
C	C	E.C.O. 88-0092	<i>S. W. R. G. Z.</i>	5/24/88	S. MAY
D	D	MINOR CORRECTIONS CHANGE FORMAT	<i>S. J. E. M. L. E. Y.</i>	10/27/88	S. MAY
E	D	ADD OPTION	<i>S. J. E. M. L. E. Y.</i>	12/23/88	S. MAY
F	E	MINOR CORRECTIONS	W. FREELAND	4/6/89	S. MAY
G	F	MINOR CORRECTIONS	D. SMITH	7/13/89	S. MAY
H	G	MINOR CORRECTIONS	<i>D. O' T. O. L. E.</i>	9/6/89	M. SPANGLER
J	G	MINOR CORRECTIONS	E. M. GREEN	5/4/90	M. SPANGLER
K	G	MINOR CORRECTIONS	E. M. GREEN	3/4/91	M. SPANGLER
L	H	MINOR CORRECTIONS	C. MUZZEY	6/28/91	A. JORDAN
M	J	MINOR CORRECTIONS	E. JORY	9/12/91	A. JORDAN
N	K	CHANGE TO "ABC" PER ECO 92-0112	E. JORY	5/22/92	A. JORDAN
P	L	CHANGE PER ECO 92-0245	<i>D. O' T. O. L. E.</i>	8/10/92	<i>aq</i>

NOTES:

1. FOR SCHEMATIC DIAGRAM SEE 141-004116-000
2. FOR TEST PROCEDURE SEE 510-004116-000

APPROVALS		DATE		
DRAFTING R. STALNAKER		5/31/88	UME MICROSYSTEMS INTERNATIONAL CORPORATION	
PROJ. ENG. S. MAY		5/31/88	ASSEMBLY DRAWING	
ENG. MGR. P. RAINOSEK		5/31/88	UMIUME-4116	
PROD. D. FOWLER		6/2/88	SIZE A	REV. P
Q.A. S. KEAGLE		6/2/88	SCALE	SHEET 1

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PARTS LIST

VMIC® VME MICROSYSTEMS INT'L CORP.		CODE IDENT. NO.	DWG. NO. 132-004116-000	REV. LTR. P
MODEL NO. UMIUME-4116	SIGNATURES DRAWN <i>S. W. R. G. Z.</i> CHECKED <i>C. M. U. G. G.</i>	DATE 5/24/88	CONTRACT NO.	SH <u>3</u>

INSTRUCTIONS: NOTES:

1

A. ALL ASSEMBLED BOARDS SHALL BE IDENTIFIED WITH THE ASSEMBLED BOARD PART NUMBER. THIS NUMBER INCLUDES THE CURRENT REVISION LETTER LISTED IN THE 332-COLUMN OF THE REVISION TABLE, FOUND ON SHEET ONE. THE RESULTING PART SHALL BECOME A 332-004116-000 (REV).

B. THE REVISION LETTER(S) OF THE ASSEMBLY DRAWING SHALL BE STAMPED IN THE DESIGNATED AREA.

C. REMOVE THE EXISTING REVISION LETTER FROM THE 332 ASSEMBLED PART NUMBER.

D. REMOVABLE, NON-SMEARING INK SHALL BE USED TO STAMP REVISION LETTERS IN THE DESIGNATED AREA.

2

SOLDER COMPOSITION COMPLIES WITH MIL-STD-2000.

PARTS LIST

VMIC® UME MICROSYSTEMS INT'L CORP.		CODE IDENT. NO.		DWG. NO.	REV. LTR.
				132-004116-000	P
MODEL NO. UMIUME-4116	SIGNATURES		DATE	CONTRACT NO.	
	DRAWN <i>S. J. [signature]</i>	10/10/88			
	CHECKED <i>C. M. [signature]</i>	7-29-92		SH <u>3A</u>	

INSTRUCTIONS: REWORK

NOTES:

A. REWORK INSTRUCTIONS SHALL BE ACCOMPLISHED ON THE COPPER REVISION(S) INDICATED AND WILL BECOME A PART OF THE ASSEMBLED BOARD.

B. REWORK INSTRUCTION SYMBOLS

1. ■ PIN ONE DOT
2. ● DRILL HOLE
3. ✕ DISCONNECT TRACE
4. ---- TRACE ON INTERNAL LAYER
5. ——— TRACE ON EXTERNAL LAYER

PARTS LIST

VMIC® VME MICROSYSTEMS INT'L CORP.		CODE IDENT. NO.	DWG. NO.	REV. LTR.
			132-004116-000	P
MODEL NO. UMIUME-4116	SIGNATURES	DATE	CONTRACT NO.	
	DRAWN <i>J. J. J.</i>	10/10/88		
	CHECKED <i>C. Mugg</i>	7-29-92		

EFFECTIVITY: E.C.O.'S 88-0273, 89-0133, & 91-0239
 133-004116-000 REV. A

INSTRUCTIONS: REWORK

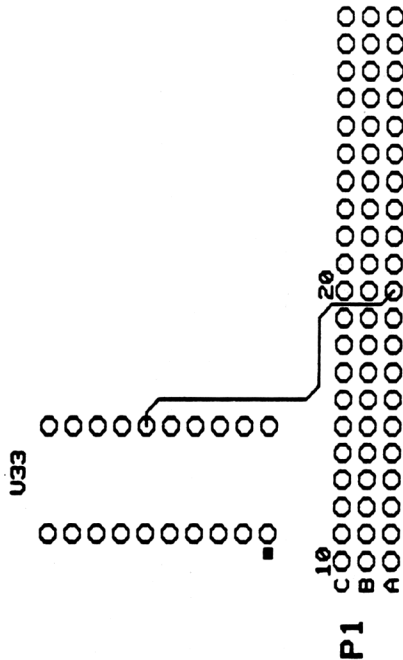
SOLDER SIDE

STEP 1

DISCONNECT TRACE FROM U33 PIN 15.

STEP 2

CONNECT WIRE FROM U33 PIN 15 TO P1 PIN A20.



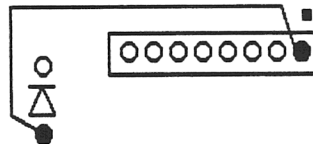
PARTS LIST

VMIC® UME MICROSYSTEMS INT'L CORP.		CODE IDENT. NO.	DWG. NO. 132-004115-000	REV. LTR. P
MODEL NO. UMIUME-4116	SIGNATURES DRAWN <i>D. O'Neil</i> CHECKED <i>C. Muzza</i>		DATE 9/05/89 7-29-92	CONTRACT NO.

EFFECTIVITY: E.C.O. 89-0133 & 91-0239
 REV. A COPPER, SERIAL NUMBERS 1181 AND GREATER

INSTRUCTIONS: REWORK
 SOLDER SIDE

STEP 1
 CONNECT ANODE OF D1 TO RP1, PIN 1 (+5 VDC)



EFFECTIVITY: E.C.O. 91-0149
 332-004116-000 REV G AND EARLIER

STEP 1
 REMOVE 10µF CAP FROM C7 AND C10.

STEP 2
 REPLACE WITH 22µF CAP (PART # 315-102000-226).

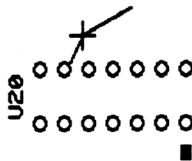
PARTS LIST

VMIC® UME MICROSYSTEMS INT'L CORP. MODEL NO. UMIUME-4116		CODE IDENT. NO.		DWG. NO. 132-004116-000	REV. LTR. P
		SIGNATURES DRAWN E. JORY CHECKED <i>C. Mugg</i>	DATE 9/9/91 7-29-92	CONTRACT NO.	SH 3D

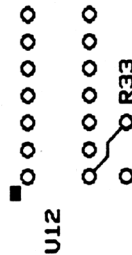
EFFECTIVITY: E.C.O. 91-0239
133-004116-000 REV. A AND C

INSTRUCTIONS: REWORK SOLDER SIDE

1. DISCONNECT U20 PIN 9 FROM U29 PIN 5 AND U28 PIN 3
BY CUTTING AT U20 PIN 9.



2. CONNECT U18 PIN 4 TO U20 PIN 9.
3. CONNECT R33 TO U12 PIN 14.



OPT.		Q U A N T I T Y	I T E M #	VMIC® VME MICROSYSTEMS INT'L CORP.	PARTS LIST		CODE OBPH5	REV. P	DRAWING NUMBER 132-004116-000	CHECKED C. Muzzey DATE 7/29/92	SH NO. 5
					REFERENCE DESIGNATOR	PART NO.					
	A	B	C								
				U19	331-304174-600	IC: DIGITAL, HEX D FLIP FLOP W/CLEAR, PLASTIC DIP				SN74LS174N	(TI)
				U34	331-304240-600	IC: DIGITAL, OCTAL BUS DRIVER, PLASTIC DIP				SN74LS240N	(TI)
				U17,32	331-304244-600	IC: DIGITAL, OCTAL BUS DRIVER, NON-INVERTING, PLASTIC DIP				SN74LS244N	(TI)
				U9,16	331-304273-600	IC: DIGITAL, OCTAL D FLIP FLOP, PLASTIC DIP				SN74LS273N	(TI)
				U30,31,33	331-304520-100	IC: DIGITAL, 8 BIT IDENTITY COMPARTOR, PLASTIC DIP				SN74ALS520N	(TI)
				U35,36	331-304645-110	IC: DIGITAL, OCTAL BUS TRANSCEIVER, PLASTIC DIP				SN74ALS645A-1N	(TI)
				S1	351-000000-040	SWITCH: DIP, 4 POSITION, LOW PROFILE, PC MOUNT, TAPE SEAL				ADF-04PCT	(AUGAT)
				S2	351-000000-080	SWITCH: DIP, 8 POSITION, LOW PROFILE, PC MOUNT, TAPE SEAL				ADF-08PCT	(AUGAT)
				C3,4,8,9,11-13,15,16,18,19,22,23,25,27,29,30,32,33,36,37,39,41,43,44,46,47,50,51,53,55,57,58,60,61,64,65,67,69-75,77-94	315-205000-103	CAP: .01uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLITHIC				C3(15,20)C103M5U5CA	(KEMET)
				A1,2	340-000006-004	CONVERTER: DC/DC, 5W, 5V INPUT, +-15V/400mA OUTPUT 61% EFFICIENCY				PM904	(COMPUTER PRODUCTS)
				C95	315-902000-476	CAP: 47uF, AXIAL, 20%, 35V, ALUMINUM ELECTROLYTIC				ECEB1WU470	(PANASONIC)
				P1	321-000054-001	CONNECTOR: DIN, 96 PIN WITH EXTENDED GROUND PINS, TYPE C				913215	(ERNI)
				P3	321-000013-005	CONNECTOR: FLAT CABLE, 32 PIN, .114 ANGLED WITH EJECTOR LATCHES, TYPE 1/2C, MALE				120-332-033A	(PANDUIT)

OPT.		Q U A N T I T Y	I T E M #	VMIC[®] VME MICROSYSTEMS INT'L CORP.	PARTS LIST PART NO.	CODE	REV.	DRAWING NUMBER		CHECKED	SH NO.
A	B C			REFERENCE DESIGNATOR		OBPH5	P	132-004116-000	DATE	C. Meyer	7
			46						7/28/92		
			47								
			48								
			49								
A	0 C	4	50	U7,8,25,26	323-250001-250			CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP		DAC707KP	(BURR BROWN)
A	0 C	4	51	U1	WIRE JUMPER			WIRE: STRAIGHT (JUMPER PINS 2&3, 6&7, 10&11, 14&15)			
			52								
A	1 C	4	53	U7,8,25,26	323-250001-250			CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP		DAC707KP	(BURR BROWN)
A	1 C	1	54	U11	331-309019-030			IC: INTERFACE, 7 CHANNEL, 50V OUTPUT, 500mA INPUT, 5V TTL, CMOS, PLASTIC DIP		ULN2003A	(SPRAGUE)
A	1 C	2	55	K1,2	345-000003-210			RELAY: DRY REED, 4 AMP, 5 VOLT		951-A05-B4A	(CLARE)
			56								
A	2 C	4	57	C1,2,5,6	315-205000-103			CAP: .01uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLITHIC		C3(15,20)C103M5U5CA	(KEMET)
A	2 C	4	58	U7,8,25,26	323-250001-250			CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP		DAC707KP	(BURR BROWN)
A	2 C	2	59	U1,4	331-309002-002			IC: INTERFACE, QUAD SPST ANALOG SWITCH, 500mW, 36V, 0 TO 70 DEGREES, PLASTIC DIP		SW-06GP	(PHI)
			60								
A	3 C	4	61	U5,6,23,24	321-001628-001			SOCKET: DIP, 28 PIN, .600 ROW		ICA-628-SGT	(SAMTEC)

OPT.		Q U A N T I T Y	I T E M #	V M I C [®] VME MICROSYSTEMS INT'L CORP.	P A R T S L I S T		CODE OBPH5	REV. P	DRAWING NUMBER 132-004116-000	CHECKED C. Muzzey DATE 7/29/92	SH NO. 8	
					REFERENCE DESIGNATOR	PART NO.						
A	B C						NOMENCLATURE OR DESCRIPTION					MANUFACTURER'S PART NO.
A	3	C	62	U5-8,23-26	323-250001-250		CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP					DAC707KP (BURR BROWN)
A	3	C	63	U11	331-309019-030		IC: INTERFACE, 7 CHANNEL, 50V OUTPUT, 500mA INPUT, 5V TTL, CMOS, PLASTIC DIP					ULN2003A (SPRAGUE)
A	3	C	64	K1,2	345-000003-210		RELAY: DRY REED, 4 AMP, 5 VOLT					951-A05-B4A (CLARE)
A	3	C	65	R2,6,10,14	347-000000-274		RESISTOR: 270K OHM, 1/4W, 5%, CARBON FILM					
A	3	C	66	R4,8,12,16	347-000000-395		RESISTOR: 3.9M OHM, 1/4W, 5%, CARBON FILM					
A	3	C	67	R1,3,5,7,9,11,13,15	347-500001-203		POT: TRIMMER, 20K OHM, VARIABLE, TOP ADJUSTMENT					3290W-1-203 (BOURNS)
			68									
A	4	C	69	C1,2,5,6	315-205000-103		CAP: .01uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLYTHIC					C3(15,20)C103M5U5CA (KEMET)
A	4	C	70	U5,6,23,24	321-001628-001		SOCKET: DIP, 28 PIN, .600 ROW					ICA-628-SGT (SAMTEC)
A	4	C	71	U5-8,23-26	323-250001-250		CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP					DAC707KP (BURR BROWN)
A	4	C	72	U1,4	331-309002-002		IC: INTERFACE, QUAD SPST ANALOG SWITCH, 500mW, 36V, 0 TO 70 DEGREES, PLASTIC DIP					SW-06GP (PMI)
A	4	C	73	R2,6,10,14	347-000000-274		RESISTOR: 270K OHM, 1/4W, 5%, CARBON FILM					
A	4	C	74	R4,8,12,16	347-000000-395		RESISTOR: 3.9M OHM, 1/4W, 5%, CARBON FILM					
A	4	C	75	R1,3,5,7,9,11,13,15	347-500001-203		POT: TRIMMER, 20K OHM, VARIABLE, TOP ADJUSTMENT					3290W-1-203 (BOURNS)
			76									
A	5	C	77	U5,6,23,24	321-001628-001		SOCKET: DIP, 28 PIN, .600 ROW					ICA-628-SGT (SAMTEC)

OPT.		Q U A N T I T Y	I T E M #	VMIC [®] VME MICROSYSTEMS INT'L CORP.	PARTS LIST		CODE OBPH5	REV. P	DRAWING NUMBER 132-004116-000	CHECKED C. Myers DATE 7/29/92	SH NO. 9	
					REFERENCE DESIGNATOR	PART NO.						
A	B	C					NOMENCLATURE OR DESCRIPTION					MANUFACTURER'S PART NO.
A	5	C	8	U5-8,23-26	323-250001-250		CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP					DAC707KP (BURR BROWN)
A	5	C	1	U3	331-309002-002		IC: INTERFACE, QUAD SPST ANALOG SWITCH, 500mW, 36V, 0 TO 70 DEGREES, PLASTIC DIP					SW-06GP (PMI)
A	5	C	1	U2	331-309012-102		IC: INTERFACE, 44V, SINGLE 8 CHANNEL, OVERVOLTAGE PROTECTION, 0 TO 75 DEGREES, PLASTIC DIP					H13-0508A-5 (HARRIS)
A	5	C	1	U11	331-309019-030		IC: INTERFACE, 7 CHANNEL, 50V OUTPUT, 500mA INPUT, 5V TTL, CMOS, PLASTIC DIP					ULN2003A (SPRAGUE)
A	5	C	2	K1,2	345-000003-210		RELAY: DRY REED, 4 AMP, 5 VOLT					951-A05-B4A (CLARE)
A	5	C	4	R2,6,10,14	347-000000-274		RESISTOR: 270K OHM, 1/4W, 5%, CARBON FILM					
A	5	C	4	R4,8,12,16	347-000000-395		RESISTOR: 3.9M OHM, 1/4W, 5%, CARBON FILM					
A	5	C	8	R1,3,5,7,9,11,13,15	347-500001-203		POT: TRIMMER, 20K OHM, VARIABLE, TOP ADJUSTMENT					3290W-1-203 (BOURNS)
			86									
A	6	C	4	C1,2,5,6	315-205000-103		CAP: .01uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLYTHIC					C3(15,20)C103M5U5CA (KEMET)
A	6	C	4	U5,6,23,24	321-001628-001		SOCKET: DIP, 28 PIN, .600 ROW					ICA-628-SGT (SAMTEC)
A	6	C	8	U5-8,23-26	323-250001-250		CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP					DAC707KP (BURR BROWN)
A	6	C	3	U1,3,4	331-309002-002		IC: INTERFACE, QUAD SPST ANALOG SWITCH, 500mW, 36V, 0 TO 70 DEGREES, PLASTIC DIP					SW-06GP (PMI)
A	6	C	1	U2	331-309012-102		IC: INTERFACE, 44V, SINGLE 8 CHANNEL, OVERVOLTAGE PROTECTION, 0 TO 75 DEGREES, PLASTIC DIP					H13-0508A-5 (HARRIS)
A	6	C	4	R2,6,10,14	347-000000-274		RESISTOR: 270K OHM, 1/4W, 5%, CARBON FILM					

ED0086-00

OPT.		Q D A N T I T Y		I T E M #		VME [®] PARTS LIST VME MICROSYSTEMS INT'L CORP.		CODE REV. DRAWING NUMBER		CHECKED DATE		SH NO.	
A	B	C				REFERENCE DESIGNATOR	PART NO.	OBPH5	P	132-004116-000	C. Muzzey	DATE	10
MANUFACTURER'S PART NO.													
A	6	C		93	R4, 8, 12, 16	347-000000-395				RESISTOR: 3.9M OHM, 1/4W, 5%, CARBON FILM			
A	6	C		94	R1, 3, 5, 7, 9, 11, 13, 15	347-500001-203				POT: TRIMMER, 20K OHM, VARIABLE, TOP ADJUSTMENT		3290W-1-203	(BOURNS)
				95									
A	7	C		96	U5, 6, 23, 24	321-001628-001				SOCKET: DIP, 28 PIN, .600 ROW		ICA-628-SGT	(SAMTEC)
A	7	C		97	U5-8, 23-26	323-250001-250				CONVERTER: DIGITAL TO ANALOG, 16 BIT, +-10V, 0 TO 70 DEGREES, CERAMIC DIP		DAC707KP	(BURR BROWN)
A	7	C		98	R2, 6, 10, 14	347-000000-274				RESISTOR: 270K OHM, 1/4W, 5%, CARBON FILM			
A	7	C		99	R4, 8, 12, 16	347-000000-395				RESISTOR: 3.9M OHM, 1/4W, 5%, CARBON FILM			
A	7	C		100	R1, 3, 5, 7, 9, 11, 13, 15	347-500001-203				POT: TRIMMER, 20K OHM, VARIABLE, TOP ADJUSTMENT		3290W-1-203	(BOURNS)
A	7	C		101	U1, 4	WIRE JUMPER				WIRE: STRAIGHT (JUMPER PINS 2&3, 6&7, 10&11, 14&15)			