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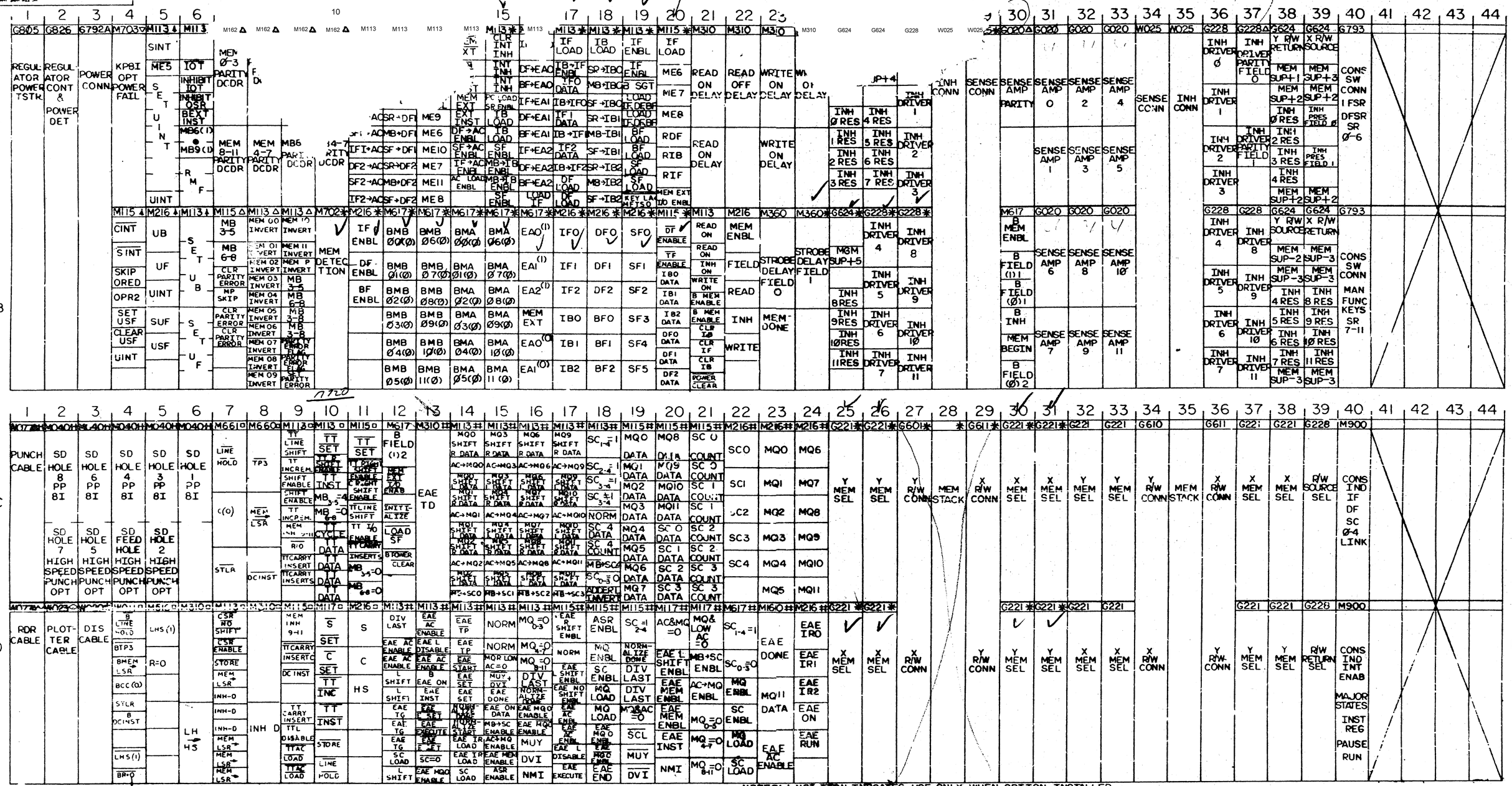

NOTES: 1. NOTATION INDICATES USE ONLY WHEN OPTION INSTALLED

▲	MC8I	▽	DL8I	◇	VP8I	▲	KT8I
▲	MK8I	▽	PD8I	◇	VC8I		
▲	MP8I	▽	PR8I	◇	KP8I		

2. * FOR MC8I REPLACE THE G020'S IN LOC A30, A31, A32 A33 B31, B32 AND B33 WITH G021'S

3. * Δ FOR MP8I AND MC8I9 THE USUAL MEMORY STACK DEC#30-05256-1 IS REPLACED BY DEC#30-05256-2 WITH G112'S AT LOC CD36 AND CD29 RESPECTIVELY.

SEE SHEET 2 OF 2

REVISIONS			
REV	CHANGE NO.	CHK	
H	10		
J	12		
K	13		
L	81-00009	OLOUGHLIN	2-23-68
M	81-00013	OLOUGHLIN	9/5/68
N	81-00015	OLOUGHLIN	10/4/67
P	81-00020	J.E. OLOUGHLIN	11/11/67
R	00021	OLOUGHLIN	12/22/67
S	00024	OLOUGHLIN	12/27/67
T	81-00025	J. OLOUGHLIN	1/3/69
U	81-00032	M. ARSENAULT	2/14/69
V	81-00034	ARSENAULT	5/12/69
W	81-00042	ARSENAULT	3/19/69
Y	00046	M. ARSENAULT	2/12/69
Z	81-00050	ARSENAULT	5/12/69

DEC FORM 187 DRD 105

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

		DATE
DRN.	R. BERNIER	8/9/67
CHK'D.	P. DAIGNEAULT	8/16/67
ENG.	E. DECASTRO	10/10/67
PROJ. ENG.	E. DECASTRO	10/10/67
PROD.	B. VAILLANCOURT	8/21/67

FIRST USED ON E-UA-8I-0-0

SCALE

SHEET 1 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE MODULE UTILIZATION

SIZE	CODE	NUMBER	REV
D	MU	8I-0-17	A C

DIST.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	M706	M707							MI13	M700	MI13	MI13	MI60	MI15	MI13	M310	M310	M216	M216	M216	MI15	MI13	M215	MI13	MI15	MI60	M160	MI60	MI60	MI60	M617	M617	M216	M220	M220	M220	M220	M220	M220	M900
	TTY RECVR	TTY TRANS							SD	$\overline{\text{MFTS0}}$	KEY LA	PAUSE	DATA	MEM START	MEM START	.3µS	.15µS	TS 1	TS 2	IR0	$\overline{\text{TAD}}$	AND	FETCH	EAE LEFT SHIFT	EAE LEFT SHIFT	PC LOAD	CARRY INSERT	ENABLE	MEM ENABLE	MA ENABLE	DOUBLE RIGHT ROTATE	MA LOAD	ADD ACCPT	AC Ø0	AC Ø2	AC Ø4	AC Ø6	AC Ø8	AC 10	CONS IND
									SD	MFTP0	KEY ST	PAUSE	→	PC ENABLE	MEM START	CLEAR PAUSE		MEM IDLE	TS 3	IR 1	AND	TAD		JMP DEFER 1	CLEAR INT ENABLE				Ø-4	Ø-11	DOUBLE LEFT ROTATE	PC LOAD	WC OVFOL							AC Ø-5
									INH		KEY DP	CLEAR PAUSE	RUN	CLR	TP 4						$\overline{\text{ISZ}}$	ISZ	DEFER	IR 0(I) IR 1(I)	WC+CA +TT SET															
									INH		KEY EX+DP	IO END		IB IF DP	TP 4							JMS		SPECIAL CYCLE																
									MEM ENAB 9-0	MFTS1	KEY STOP+SS	KEY LA EX+OP		KEY ST+EX +DP	TP 1							DCA	DCA	EXECUTE	TP 4+ INT OK	D SET															
E	TTI Ø-7	TPR FLAG							MEM ENAB 9-0	MFTP1	KEY SI	SLOW CYCLE		SET TS 4	SET TS3			BREAK SYNC	IOP 1	IR 2	$\overline{\text{JMS}}$	LOAD IR	WORD COUNT	AC(I) MB(I)	SKIP	AC 0-11														
									IOP 1(I)		KEY EX+DP	RESTART CLR		SET TS 4	SET TS4		.35µS				$\overline{\text{IOT}}$	JMP		HT AC=Ø	SKIP															
	TTI SKIP	TTO SKIP							IOP2(I)	MFTS2	KEY IOP	TT SKIP		I/O STROBE	I/O START		TP 3	SKIP	IOP 2	ON		LOAD IR	CUR ADD.	MID AC=Ø	LOAD SKIP															
									IOP4(I)	MFTP2	KEY CONT	DATA TO WC			I/O START						$\overline{\text{JMP}}$	OPR		LOW AC=Ø	LOAD SKIP															
	IN ACTIVE	OUT ACTIVE							IOP 1(I)		BREAK 1 MEM INC	TT INT							IOP 4		$\overline{\text{OPR}}$	IOT	BREAK	SKIP	LOAD SKIP															
			M452					‡M660	MI19		MI17	M310	M310	M310	M310	M310	M310	M310	M310	M310	MI17	MI13	MI13	MI13	MI13	MI15	MI17	MI17	MI15	MI13	M617	M617	MI13	M160							
	IN STOP 2	OUT STOP 2						B MEM START	OUR BACK PLANE HAS NO WIRES TO THIS CARD		$\overline{\text{IOT}}$	I/O	.4µS	.4µS	.4µS	.4µS	.4µS	.4µS	.4µS	.4µS	SLOW CYCLE	CLEAR ADD ACC	MEMO	LOAD WC	OP 1	DOUBLE LEFT ROTATE	SKIP	NO SHIFT	ADD	MEM ENABLE	PC ENABLE	MEM ENABLE Ø-4	CARRY INSERT	LINK							
											IOP										KEY LA ST EX OP CONT	CA ADD ACC	F SET	LOAD IN SYNC	CA INCR	DOUBLE RIGHT ROTATE	E SET	AUTO INDEX	MA ENABLE 0-4	MEM ENABLE 5-11	I/O ENABLE	MEM ENABLE 5-11	MA LOAD	CONT	PC Ø0	PC Ø2	PC Ø4	PC Ø6	PC Ø8	PC 10	CONS IND
											I+2+4											CLEAR	SET IOP 1	SET FETCH	LOAD INT DEL	AUTO INDEX	RIGHT SHIFT	E SET	AUTO INDEX	INT SKIP	MEM ENABLE 5-11		MA LOAD								AC 6-11
	IN STOP 1	OUT STOP 1.5	TTO CLOCK					BTP2	TP		I PC ENABLE	STROBE ANS	IOP 2	IOP 2	IOP 4	IOP 4	I/O	I/O			LOAD INT ENABLE	SET IOP 2	E SET	LOAD INT ENB	AUTO INDEX	LEFT SHIFT	D SET	AUTO INDEX	PC ENABLE	OP2	DATA ENABLE	OP 1 MB6 (I)	LINK							
																	END	END				SET IOP 4	D SET	LOAD INT ENB	AUTO INDEX	NO SHIFT	BREAK OK	BREAK OK	AC_0-3 =Ø	AC CLEAR	DATA ENABLE	PC ENABLE	CONT							
	CLK SCALE 2	OUT STOP 1									INT INH										TT SKIP	SLOW CYCLE	BREAK OK+WC SET	CLEAR INT ENB	F SET	CARRY INSERT	WC SET	F SET	AC_4-7 =Ø	DATA ENABLE	SR ENABLE	TOP A	DATA							
																					TT INT	TPC ENABLE	B SET	LOAD INT ENB	PC LOAD	AUTO INDEX	B SET			SR ENABLE	TT INST	ADDER IB → LINK								
																					LOAD INT ENB	SLOW CYCLE	WC SET	LOAD INT ENB	AND ENABLE			LOAD SKIP	AC_8-11 =Ø	SR ENABLE	EAE ONE	DATA → LINK								
																						INITIAL		PROCESS	OPI			LOAD SKIP		KEY LA MFTS Ø		CARRY → LINK								
																						INITIAL		PROCESS OR IOT		AC LOAD				L ENABLE	PC INCR									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	WØ11 ‡	WØ11 ‡	WØ11 ‡	WØ11 ‡	WØ11 ‡		M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ	M651 ψ			A701 ‡	A607 ‡	A607 ‡	M705 ∿	M715 ∿	M710 ‡	M704 ∿	M708 ▼	M709 ⊗	M716 ↓		W971 ↓						
	EXTD MEM CONN	EXTD MEM CONN	EXTD MEM CONN	EXTD MEM CONN	EXTD MEM CONN		BAC Ø	BAC 3	BAC 6	BAC 9	IOP 1	TS3	MBØ(I)	MB3(Ø)	MB4(I)	MB6(Ø)	MB7(I)	MB9(I)	RUN	BREAK																				
H	MCB MB 3-5	BMA 6-11	MCB MB 6-11	MEM P	MEM 8-11																		VC8I OPT	VC8I OPT	VC8I OPT	PR8I OPT	PR8I OPT	PP8I OPT	VP8I OPT	KW8I OPT	KW8I OPT	CR8I OPT		CR8I OPT							
	BMA Ø-5	MCB MB Ø-2	EA Ø-2	MEM Ø-7	MEM START STROBE MEM DONE MB PARITY ODD		BAC 1	BAC 4	BAC 7	BAC 1Ø	IOP 2	TS1	MB1(I)	MB3(I)	MB5(Ø)	MB6(I)	MB8(Ø)	MB1Ø(I)	TT INST	ADD. ACCPT			DIS CONT	DIS D/A	DIS D/A	RDR CONT	RDR CLOCK	PUNCH CONT	PLOTTER CONT	CLOCK CONT	CLOCK CTR	CARD RDR CONT 1		CARD RDR CABLE							
							BAC 2	BAC 5	BAC 8	BAC 11	IOP 4	INIT	MB2(I)	MB4(Ø)	MB5(I)	MB7(Ø)	MB8(I)	MB11(I)	WC OVFLO																					
	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ11	WØ76	M506 ψ	M506 ψ	M506 ψ	M506 ψ	M506 ψ	M506 ψ	M506 ψ	M506 ψ												M714 ↑							
J	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	IN-OUT CONN	TTY CONN	IBØ	IB6	I/O SKIP	DATA ADD. Ø	DATA ADD. 6	DATA Ø	DATA 6	MEM INCR										KW8I OPT		CR8I OPT							
	BAC Ø-8	BAC 9-11 IOP 1,2&4 TS3 TS1 INIT	MB Ø-5	MB 6-11	IB Ø-8	IB 9-11 SKIP INT AC CLEAR RUN TT INST LINE	DATA ADD. Ø-8	DATA ADD. 9-11 BRK REST DATA DIR. BREAK ADD. ACC. MEM INCR	DATA Ø-8	DATA 9-11 3CYC CA NOR WC OVFLO	EXTD DATA ADD. Ø-2		IB1	IB7	INT RQST	DATA ADD. 1	DATA ADD. 7	DATA 1	DATA 7	3 CYCLE										FREQ SOURCE		CARD RDR CONT 2							
													IB2	IB8	AC CLEAR	DATA ADD. 2	DATA ADD. 8	DATA 2	DATA 8	$\overline{\text{CA}}$ INCR																			
													IB3	IB9	LINE	DATA ADD. 3	DATA ADD. 9	DATA 3	DATA 9	EXTD DATA ADD. Ø																			
													IB4	IBIØ	BRK RQST	DATA ADD. 4	DATA ADD. 1Ø	DATA 4	DATA 1Ø	EXTD DATA ADD. 1																			
													IB5	IB11	DATA DIR	DATA ADD. 5	DATA ADD. 11	DATA 5	DATA 11	EXTD DATA ADD. 2																			

4. M660 MODULE IN SLOT FØ8 TO BE PUT IN WITH THE FIRST MM 8I A ONLY.

NOTES: 1. NOTATION INDICATES USE ONLY WHEN OPTION INTALLED

‡	VC8I	◇	VP8I	⋈	KW8ID,E,F
∿	PR8I	T	MM8I	↓	CR8I
#	PP8I	⧗	KW8I		

2. ⧗ FREQ SOURCE AT LOC J3Ø IS AS FOLLOWS:

M501	KW8IA OR D	M401	KW8IB OR E
M405	KW8IC OR F		

3. ψ FOR KA8I REPLACE M506'S IN LOC J13 TO J2Ø WITH M516'S; REPLACE M651'S IN LOC H07 TO H2Ø WITH M661'S; EXCEPT USE M660'S IN LOC H11 AND H12

REVISIONS			
CHK	CHANGE NO.	REV.	
	8I-00053	AA	
	T. Quillen 5-21-69		
	ARSENAULT		
	8I-00054	AB	
	T. Quillen 6/3/69		
	ARSENAULT		
	00059	AC	
	M. ARSENAULT		

UNLESS OTHERWISE SPECIFIED	DRN.	DATE	[redacted] EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30' FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D.	DATE	TITLE MODULE UTILIZATION
	ENG.	DATE	
	PROJ. ENG.	DATE	
MATERIAL	PROD.	DATE	
	FIRST USED ON		
FINISH	SCALE		SIZE D CODE MU NUMBER 8I-0-17 REV AC
	SHEET 2 OF 2		DWG.