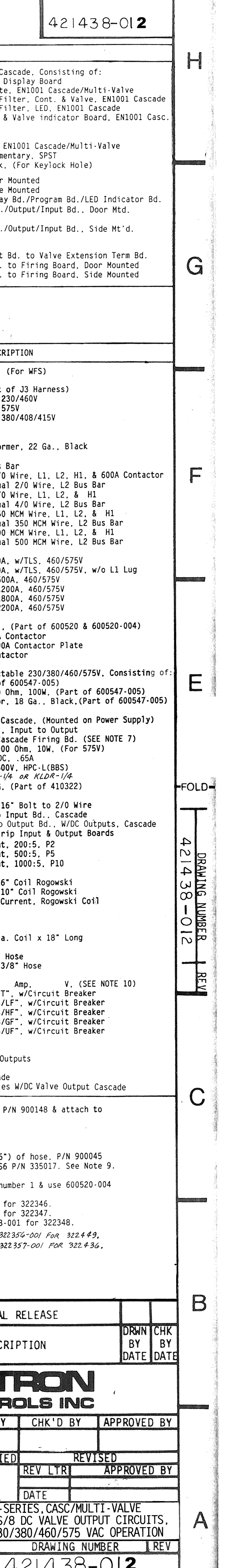
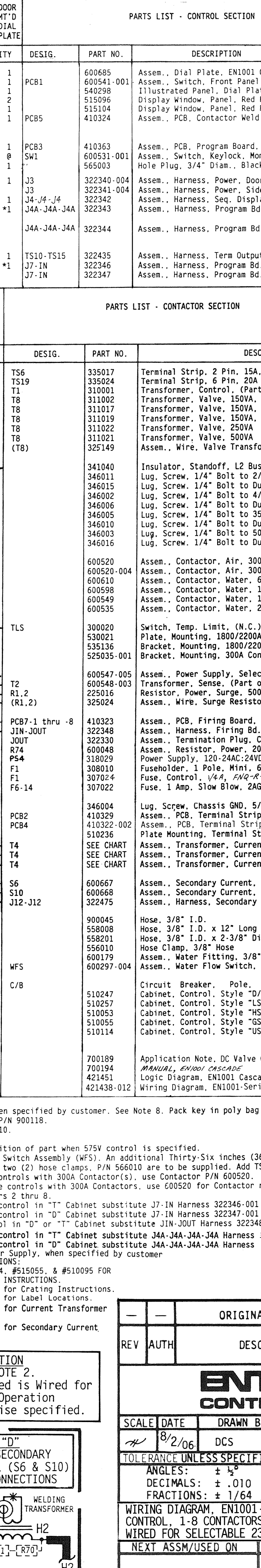
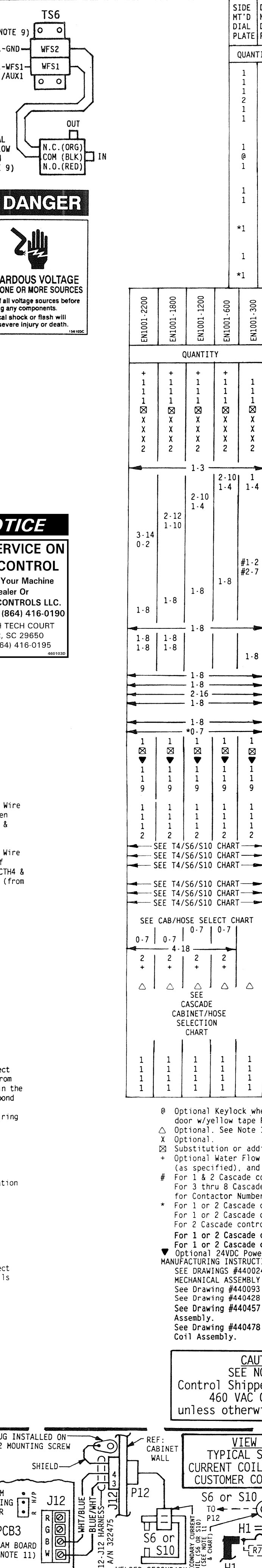
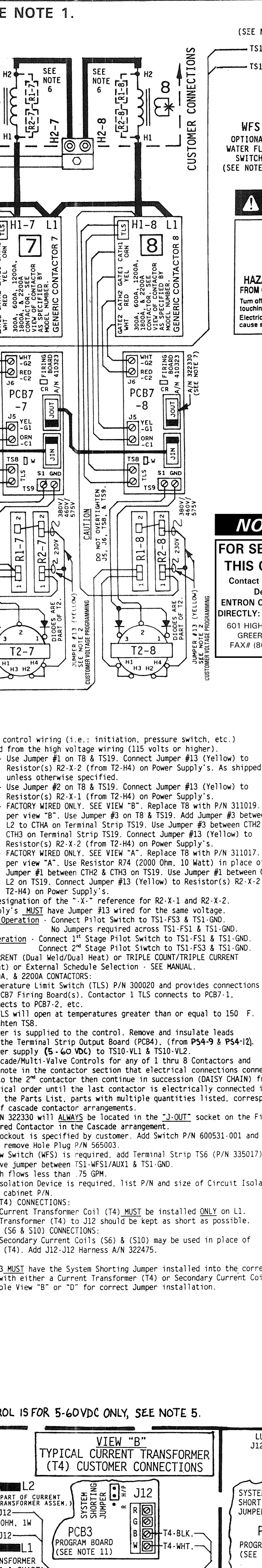
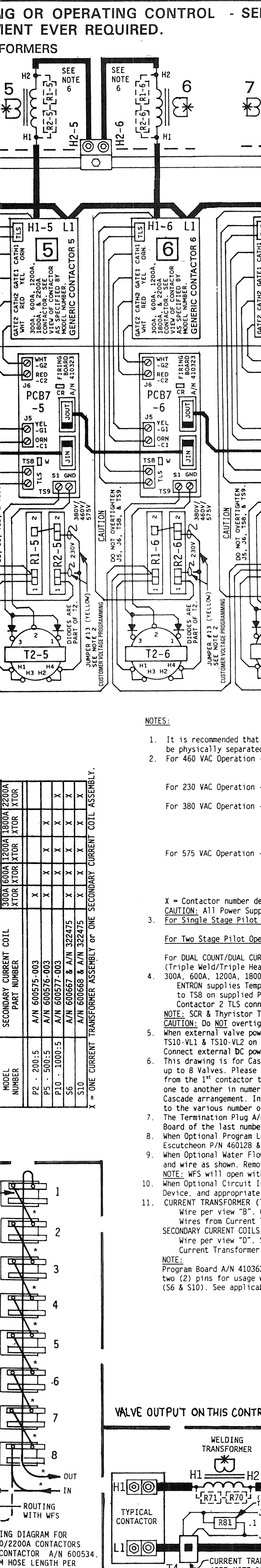
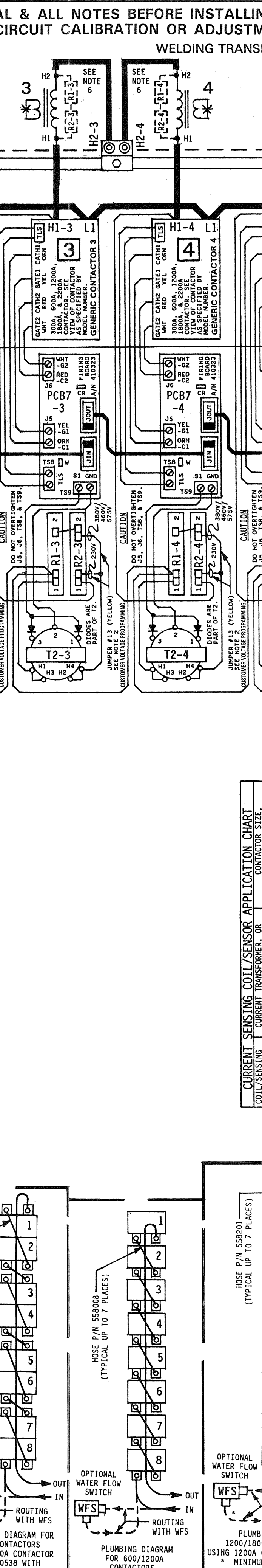
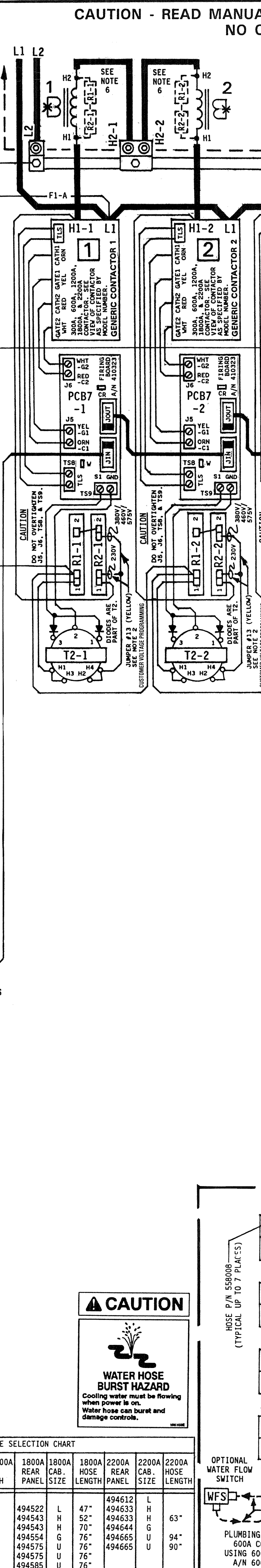
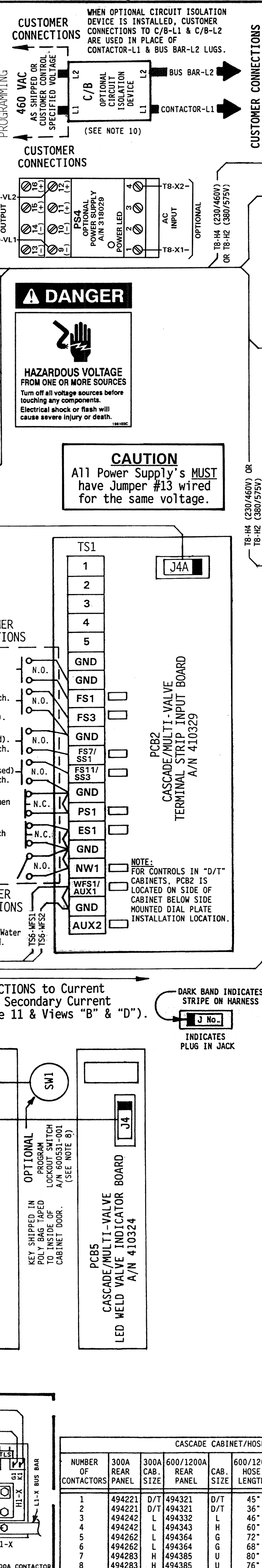
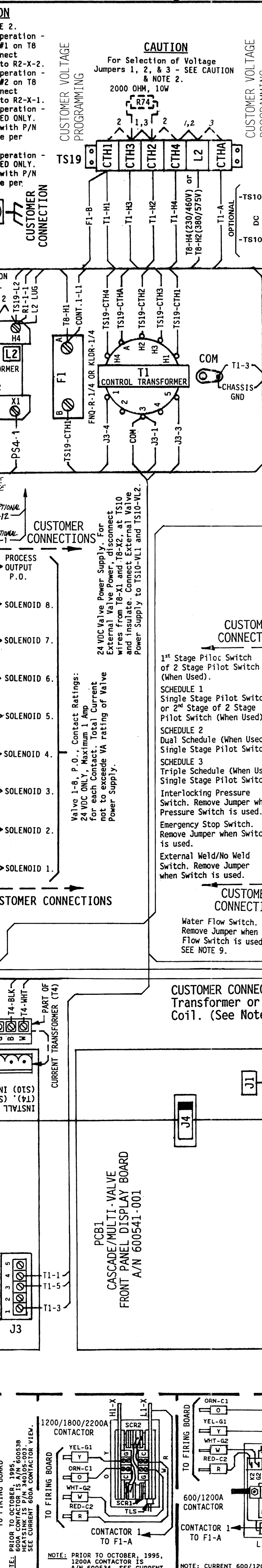
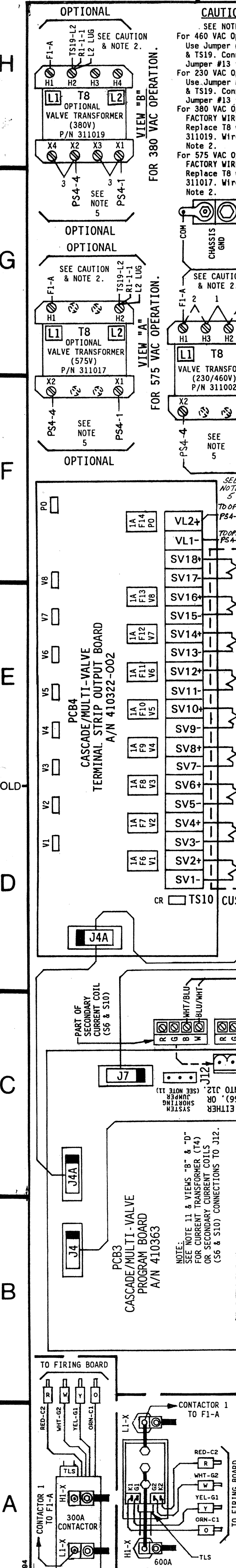
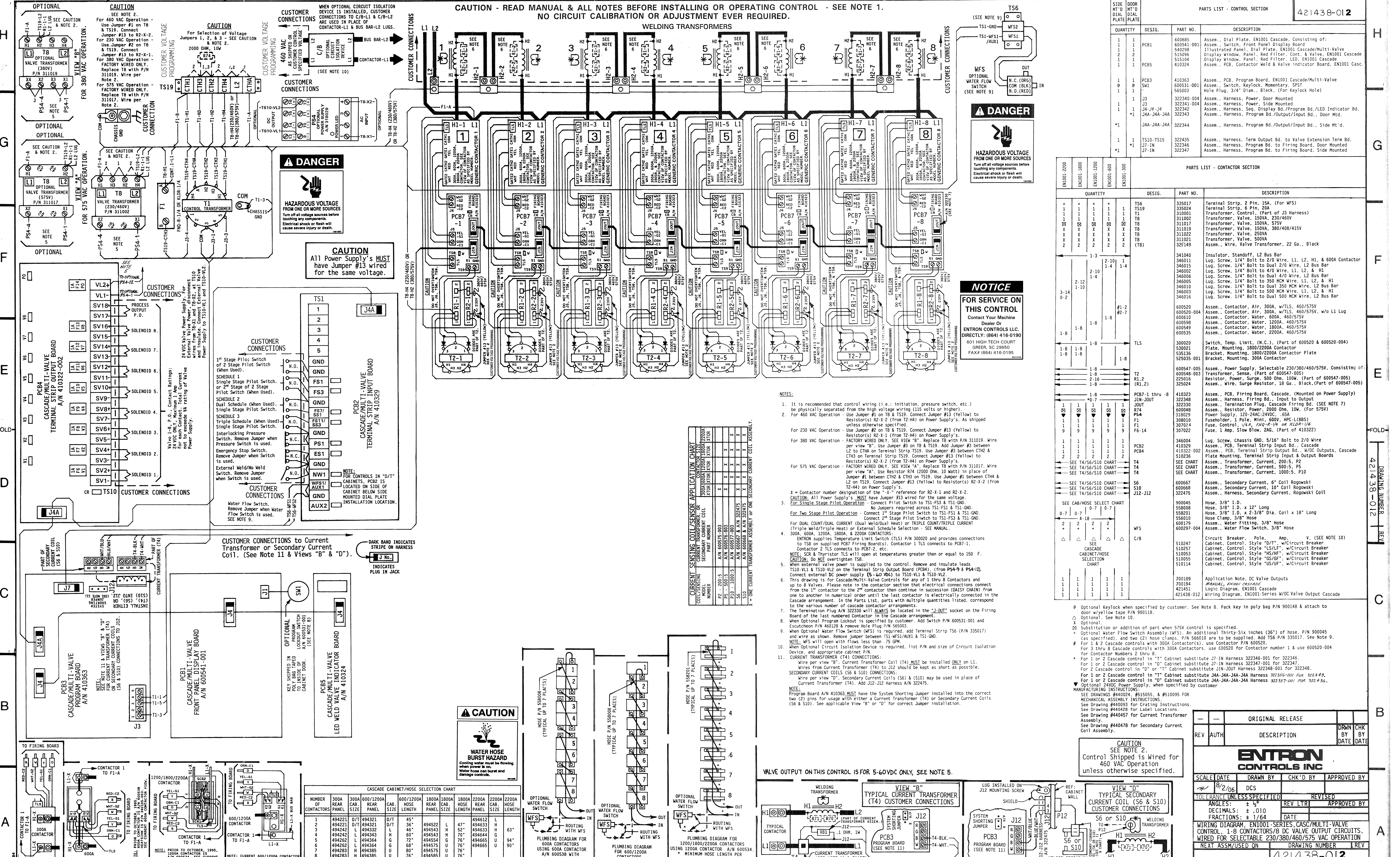


CAUTION - READ MANUAL & ALL NOTES BEFORE INSTALLING OR OPERATING CONTROL - SEE NOTE 1.
NO CIRCUIT CALIBRATION OR ADJUSTMENT EVER REQUIRED.

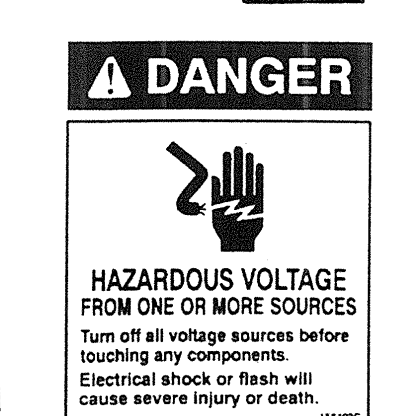


CURRENT SENSING COIL/SENSOR APPLICATION CHART

MODEL NUMBER	300A (R00A) 1200A (200A) 2200A (400A) 2200A (400A) 2200A (400A)	300A (R00A) 1200A (200A) 2200A (400A) 2200A (400A) 2200A (400A)	300A (R00A) 1200A (200A) 2200A (400A) 2200A (400A) 2200A (400A)	300A (R00A) 1200A (200A) 2200A (400A) 2200A (400A) 2200A (400A)	300A (R00A) 1200A (200A) 2200A (400A) 2200A (400A) 2200A (400A)
P2 - 200-5	X	X	X	X	X
P3 - 500-5	X	X	X	X	X
P4 - 1000-5	X	X	X	X	X
S10	X	X	X	X	X

CASCADE CABINET/HOSE SELECTION CHART

NUMBER OF CONTACTORS	300A REAR PANEL	300A CAB. SIZE	600/1200A REAR PANEL	600/1200A CAB. SIZE	1800A REAR PANEL	1800A CAB. SIZE	2200A REAR PANEL	2200A CAB. SIZE	2200A HOSE LENGTH		
1	494221	D/T	494321	D/T	45"	494522	L	47"	494623	H	63"
2	494221	D/T	494321	D/T	45"	494522	L	47"	494623	H	63"
3	494242	L	494342	L	60"	494543	H	70"	494644	H	94"
4	494242	L	494342	L	60"	494543	H	70"	494644	H	94"
5	494262	L	494362	L	72"	494562	H	76"	494665	H	94"
6	494262	L	494362	L	72"	494562	H	76"	494665	H	94"
7	494283	H	494383	H	80"	494575	U	76"	494665	H	94"
8	494283	H	494383	H	80"	494575	U	76"	494665	H	94"

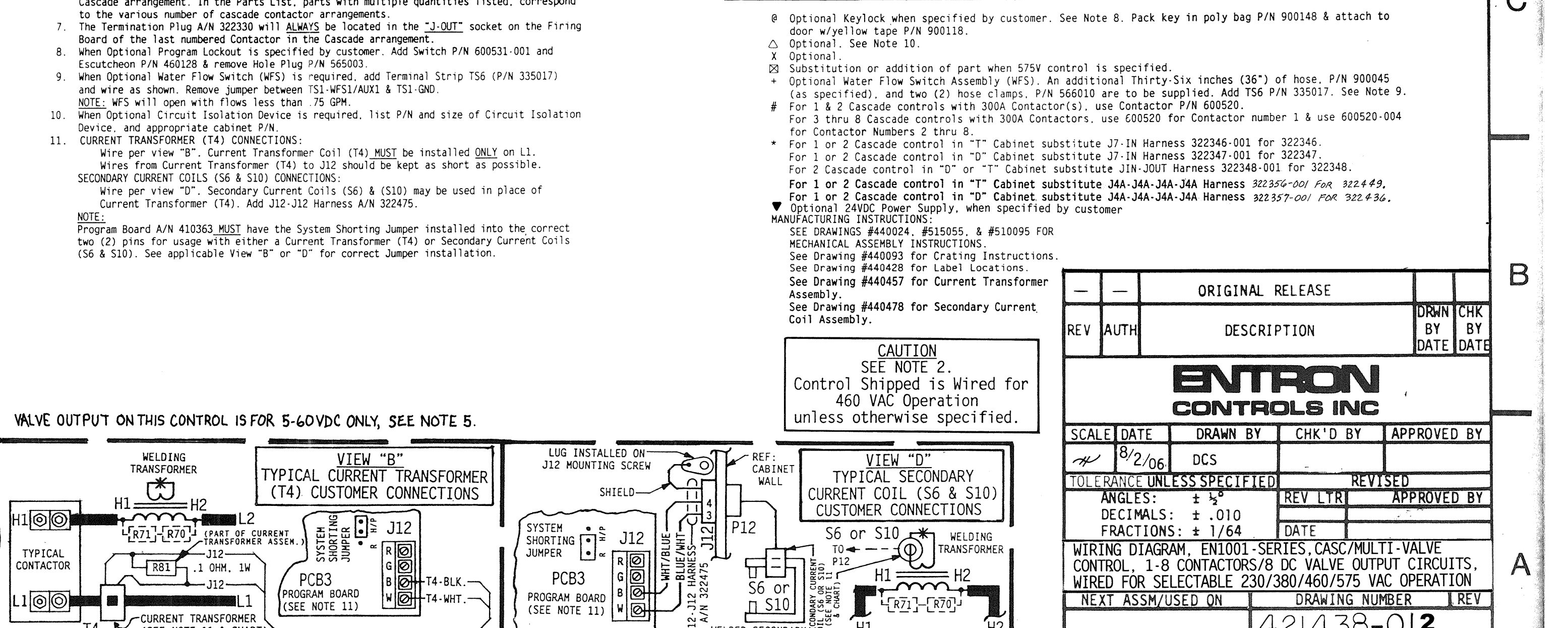


PARTS LIST - CONTROL SECTION

QUANTITY	DESIG.	PART NO.	DESCRIPTION
1	PCB1	600541-001	Assem., Dial Plate, EN1001 Cascade, Consisting of: 600541-001 Assem., Switch, Front Panel Display Board 540298 Illustrated Panel, Dial Plate, EN1001 Cascade/Multi-Valve 515096 Display Window, Panel, Red Filter, Cont. & Valve, EN1001 Cascade 515104 Display Window, Panel, Red Filter, LED, EN1001 Cascade 410324 Assem., PCB, Contactor Weld & Valve Indicator Board, EN1001 Casc.
1	PCB3	410363	Assem., PCB, Program Board, EN1001 Cascade/Multi-Valve
1	SW1	600531-001	Assem., Switch, Keylock, Momentary, SPST
1	PCB5	565003	Hole Plug, 3/4" Diam., Black, (For Keylock Hole)
1	J33	322340-004	Assem., Harness, Power, Door Mounted
1	J33	322341-003	Assem., Harness, Power, Side Mounted
1	J34	322342-004	Assem., Harness, Power, Display Bd./Program Bd./LED Indicator Bd.
1	J44-J44-J44	322344	Assem., Harness, Program Bd./Output/Input Bd., Door Mid.
1	J44-J44-J44	322344	Assem., Harness, Program Bd./Output/Input Bd., Side Mt'd.
1	TS10-TS15	322435	Assem., Harness, Term Output Bd. to Valve Extension Term Bd.
1	J7-IN	322346	Assem., Harness, Program Bd. to Firing Board, Door Mounted
1	J7-IN	322347	Assem., Harness, Program Bd. to Firing Board, Side Mounted

PARTS LIST - CONTACTOR SECTION

QUANTITY	DESIG.	PART NO.	DESCRIPTION
1	TS6	335017	Terminal Strip, 2 Pin, 15A, (For WFS)
1	TS19	335024	Terminal Strip, 6 Pin, 20A
1	TS19	340051	Transformer, 120V, 250VA, 230V/460V
1	T8	311002	Transformer, Valve, 150VA, 150V/270V
1	T8	311017	Transformer, Valve, 150VA, 575V
1	T8	311019	Transformer, Valve, 150VA, 380/400/415V
1	T8	311022	Transformer, Valve, 500VA
1	T8	311021	Transformer, Valve, 500VA
1	T8	325149	Assem., Wire, Valve Transformer, 22 Ga., Black
1-3		341040	Insulator, Standoff, L2 Bus Bar
1-10		346011	Lug, Screw, 1/4" Bolt to 2/0 Wire, L1, L2, H1, & 600A Contactor
1-10		346015	Lug, Screw, 1/4" Bolt to Dual 2/0 Wire, L2 Bus Bar
1-10		346016	Lug, Screw, 1/4" Bolt to 4/0 Wire, L1, L2, & H1
1-10		346006	Lug, Screw, 1/4" Bolt to Dual 4/0 Wire, L2 Bus Bar
1-10		346005	Lug, Screw, 1/4" Bolt to 350 MCM Wire, L1, L2, & H1
1-10		346010	Lug, Screw, 1/4" Bolt to Dual 350 MCM Wire, L2 Bus Bar
1-10		346003	Lug, Screw, 1/4" Bolt to 500 MCM Wire, L1, L2, & H1
1-10		346016	Lug, Screw, 1/4" Bolt to Dual 500 MCM Wire, L2 Bus Bar
1-8		600520	Assem., Contactor, Afr. 300A, w/TL5, 460/575V
1-8		600520-004	Assem., Contactor, Afr. 300A, w/TL5, 460/575V, w/1 Lug
1-8		600521	Assem., Contactor, Water, 600A, 460/575V
1-8		600549	Assem., Contactor, Water, 1200A, 460/575V
1-8		600535	Assem., Contactor, Water, 2800A, 460/575V
1-8		600535	Assem., Contactor, Water, 1800A, 460/575V
1-8		300020	Switch, Temp. Limit, (N.C.), (Part of 600520 & 600520-004)
1-8		530021	Plate, Mounting, 1800/2200A Contactor
1-8		531046	Bracket, Mounting, 1800/2200A Contactor Plate
1-8		525035-001	Bracket, Mounting, 300A Contactor
1-8		600547-005	Assem., Power Supply, Selectable 230/380/460/575V, Consisting of: 600548-003 Resistor, Sense, (Part of 600547-005) 225016 Resistor, Power, Surge, 500 Ohm, 100W, (Part of 600547-005) 325024 Assem., Wire, Surge Resistor, 18 Ga., Black, (Part of 600547-005)
1-8		410323	Assem., PCB, Firing Board, Cascade, (Mounted on Power Supply)
1-8		322348	Assem., Harness, Firing Bd., Input to Output
1-8		322330	Assem., Termination Plug, Cascade Firing Bd. (SEE NOTE 7)
1-8		R74	Assem., Resistor, Power, 2000 Ohm, 10W, (For 575V)
1-8		310025	Power Supply, 120-240-240VDC, 650
1-8		308010	Fuseholder, 1 Pole, Mini, 600V, HPC-L(8BS)
1-8		307024	Fuse, Control, 1/4", FWD-R-1/4" OR KLD-R-1/4"
1-8		307022	Fuse, 1 Amp, Slow Blow, 2AG, (Part of 410323)
1-8		346004	Lug, Screw, Chassis GND, 5/16" Bolt to 2/0 Wire
1-8		410326	Assem., PCB, Terminal Strip Input Bd., Cascade
1-8		410322-002	Assem., PCB, Terminal Strip Output Bd., W/DC Outputs, Cascade
1-8		510236	Plate Mounting, Terminal Strip Input & Output Boards
1-8		T4	Assem., Transformer, Current, 200-5, P2
1-8		T4	Assem., Transformer, Current, 600-5, P2
1-8		T4	Assem., Transformer, Current, 1000-5, P10
1-8		600667	Assem., Secondary Current, 6" Coil Rogowski
1-8		600668	Assem., Secondary Current, 10" Coil Rogowski
1-8		322475	Assem., Harness, Secondary Current, Rogowski Coil
1-8		900045	Hose, 3/8" I.D.
1-8		558008	Hose, 3/8" I.D. x 2-3/8" Dia. Coil x 18" Long
1-8		558201	Hose, 3/8" I.D. x 2-3/8" Dia. Coil x 18" Long
1-8		556010	Hose Clamp, 3/8" Hose
1-8		600179	Assem., Water Fitting, 3/8" Hose
1-8		600297-004	Assem., Water Flow Switch, 3/8" Hose
1-8		510247	Circuit Breaker, Pole, Amp. V. (SEE NOTE 10)
1-8		510257	Cabinet, Control, Style "D/T", w/Circuit Breaker
1-8		510053	Cabinet, Control, Style "LS/LF", w/Circuit Breaker
1-8		510055	Cabinet, Control, Style "HS/HF", w/Circuit Breaker
1-8		510055	Cabinet, Control, Style "GS/GF", w/Circuit Breaker
1-8		510114	Cabinet, Control, Style "US/UF", w/Circuit Breaker
1-8		700189	Application Note, DC Valve Outputs
1-8		700194	Application Note, W/DC Outputs
1-8		421451	Logic Diagram, EN1001 Cascade
1-8		421438-012	Wiring Diagram, EN1001-Series W/DC Valve Output Cascade



ENTRON CONTROLS INC.

SCALE: 8/206 DCS

TOLERANCE UNLESS SPECIFIED: ANGLES: ±.010 DECIMALS: ±.010 FRACTIONS: ± 1/64

WIRING DIAGRAM, EN1001-SERIES, CASCADE MULTI-VALVE CONTROL 1-8 CONTACTORS 1-8 VALVE OUTPUT CIRCUITS, WIRED FOR SELECTABLE 230/380/460/575 VAC OPERATION

421438-012