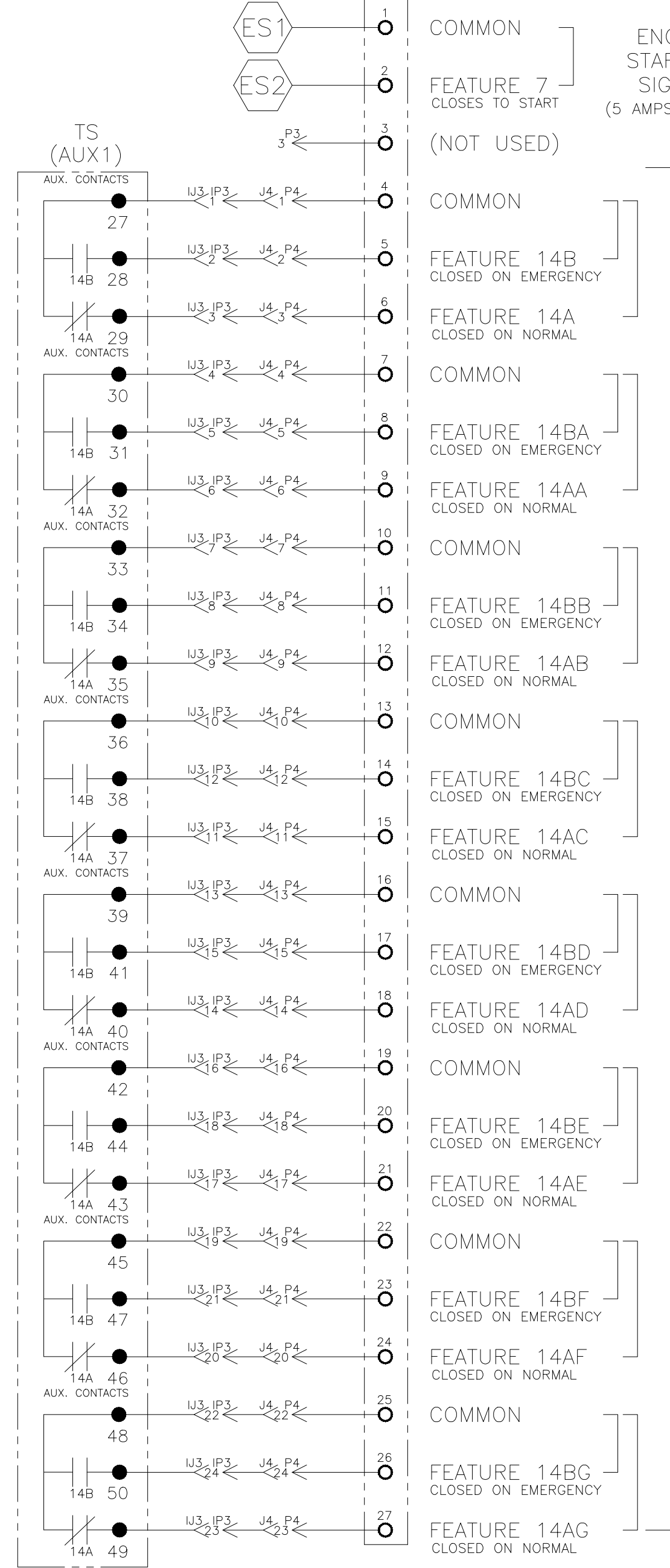


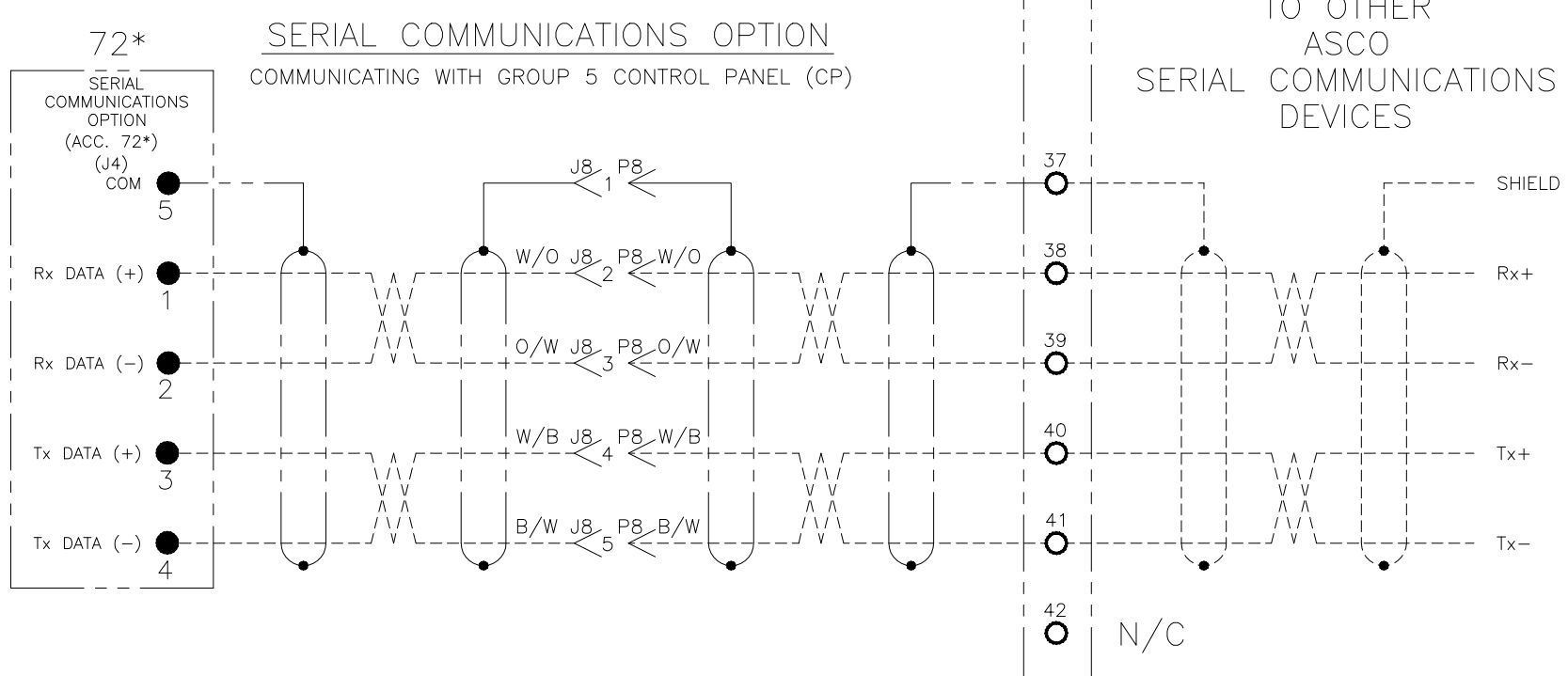
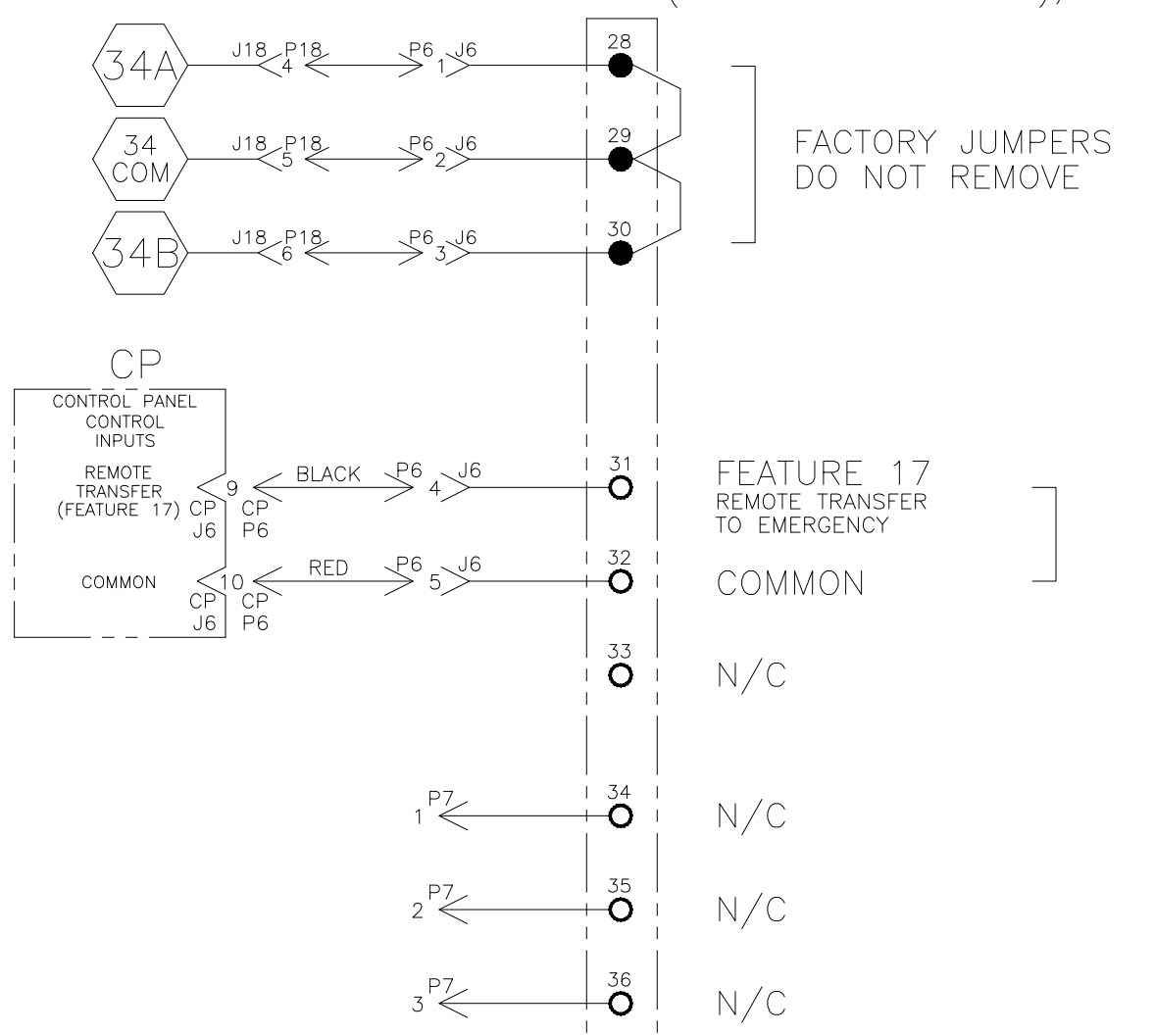


# FIELD CONNECTIONS

LOCATED BEHIND RIGHT DOOR  
TB (FIELD CONNECTIONS), WIRE RANGE: 22-12 AWG



LOCATED BEHIND RIGHT DOOR  
TB (FIELD CONNECTIONS), WIRE RANGE: 22-12 AWG



L	280031	TR	BK	08/01/19
	SEE ECN			
K	201421	BWM	BK	08/16/04
	SEE ECN			

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING DIAGRAM						
7000 SERIES (H7ATB) 3PH 600-1200 AMPS						
"H" FRAME, GROUP 5 CONTROLS						
DRAWN BY	SDH	DATE	03/03/03	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE NONE SIZE DS
PROJECT APPROVAL						DWG. NO. 735259
FINAL APPROVAL	SDH	03/03/03				DRAWING L ECN NO. 280031 SHEET 2 OF 8



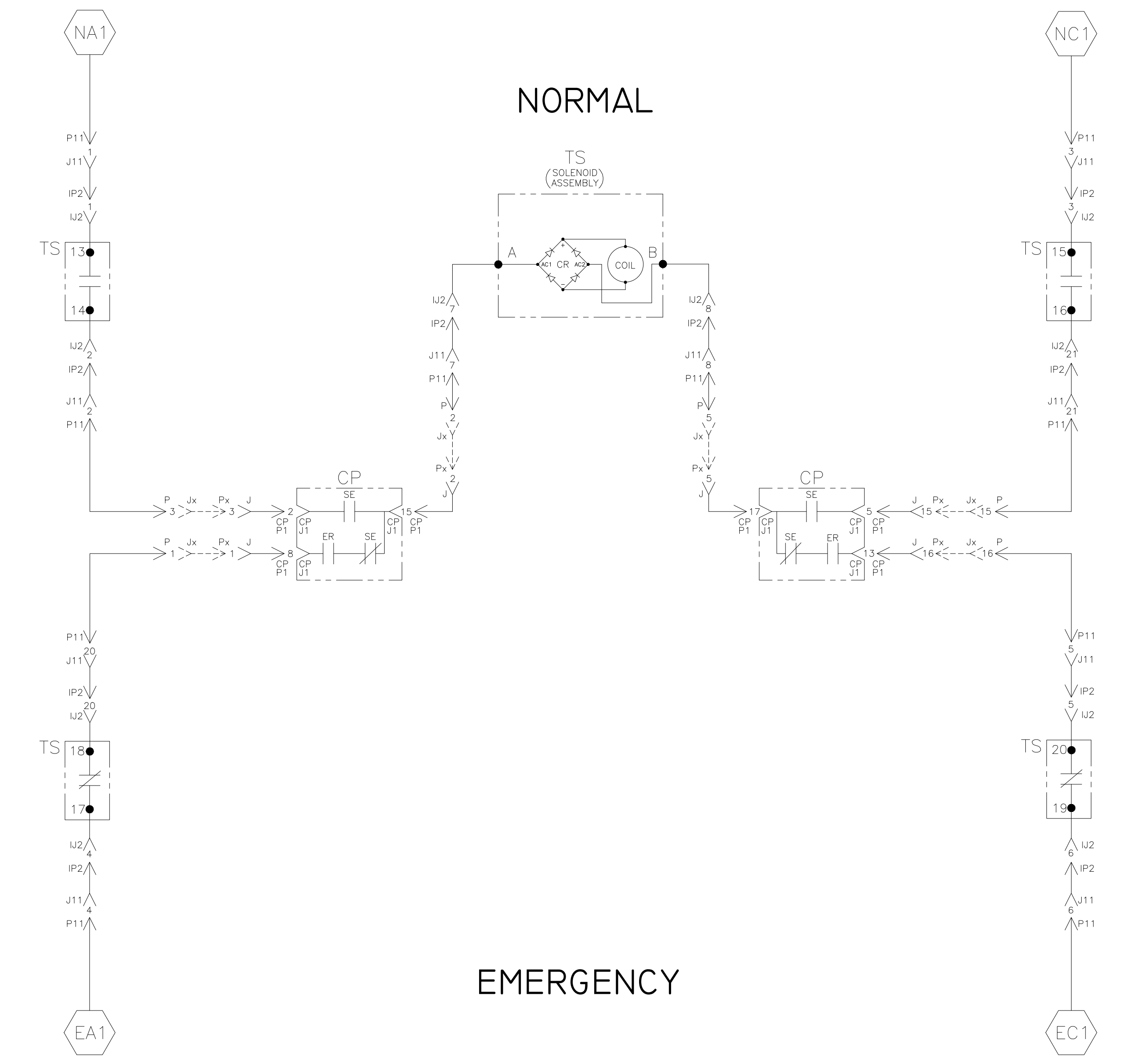
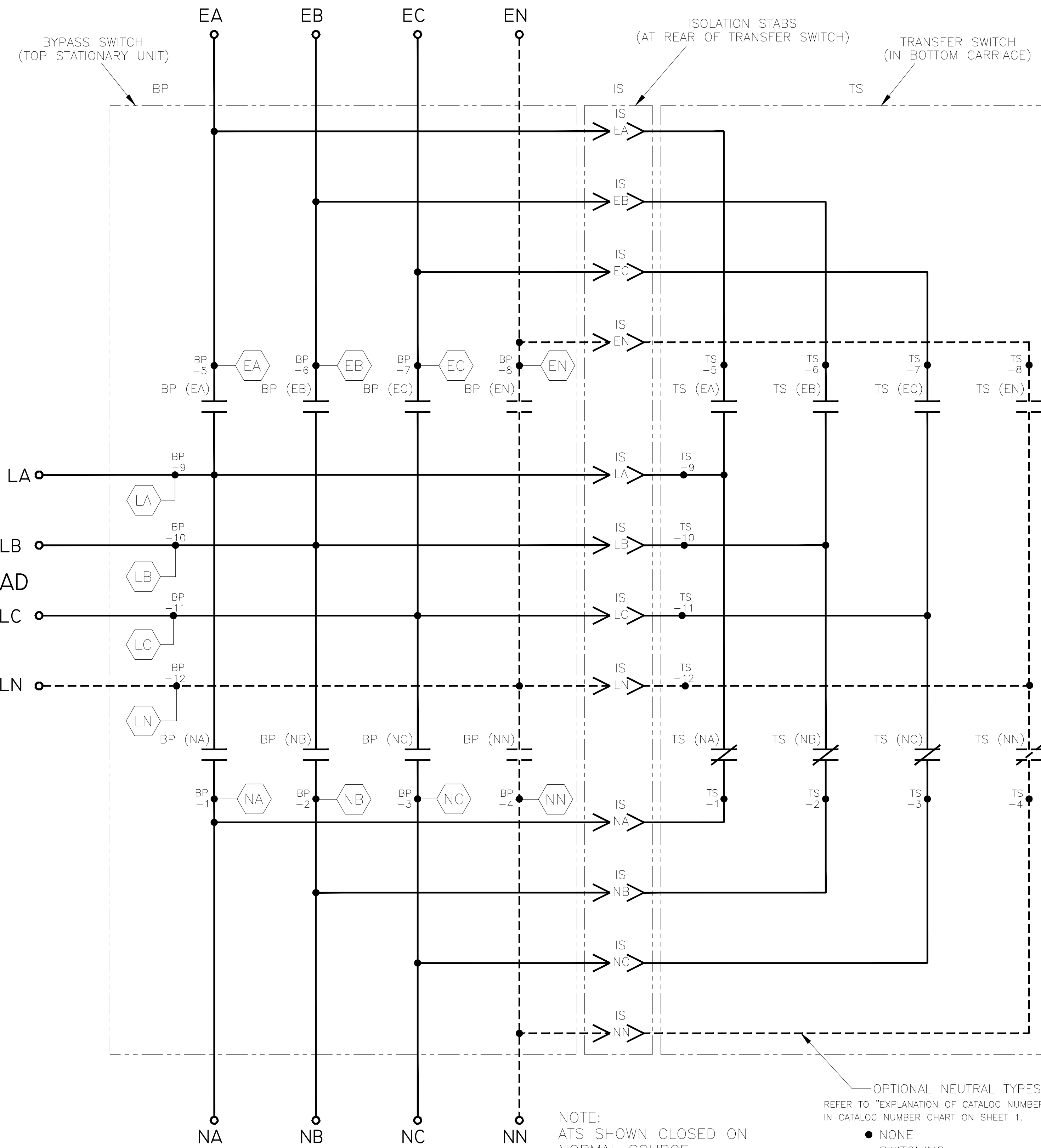
MAIN POWER POLES

TS OPERATOR CIRCUIT

EMERGENCY

NORMAL

EMERGENCY



NOTE: ATS SHOWN CLOSED ON NORMAL SOURCE. BYPASS SWITCH IN (AUTOMATIC) POSITION.

OPTIONAL NEUTRAL TYPES REFER TO "EXPLANATION OF CATALOG NUMBER CODES" IN CATALOG NUMBER CHART ON SHEET 1.

- NONE
- SWITCHING
- OVERLAPPING CONTACTS
- SOLID BUS PLATE

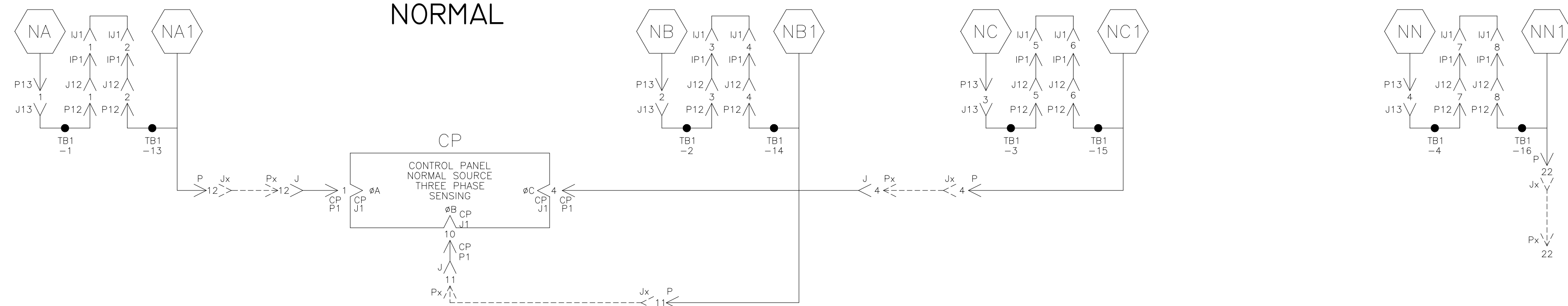
TS	TS CONTROL CONTACTS			
	SOLENOID POSITION			
	CLOSED BEFORE NORMAL	BEFORE TDC >	BEFORE TDC <	CLOSED EMERG
13-14				
15-16				
17-18				
19-20				

TDC (TOP DEAD CENTER)  
TRANSFER SWITCH TEST & ADJUSTMENT PROCEDURE SPECIFIES CONTROL CUT-OFF (CONTACT OPENING) SETTING.

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE	
WIRING DIAGRAM		L	280031	TR	BK	08/01/19	
7000 SERIES (H7ATB) 3PH 600-1200 AMPS		K	201421	BWM	BK	08/16/04	
"H" FRAME, GROUP 5 CONTROLS		COMPUTER GENERATED DRAWING					
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005		SCALE	NONE	SIZE	DS
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO.	735259		
PROJECT APPROVAL		ASCOT		DRAWING L	ECN NO.	280031	SHEET 3 OF 8
FINAL APPROVAL	SDH 03/03/03	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.					

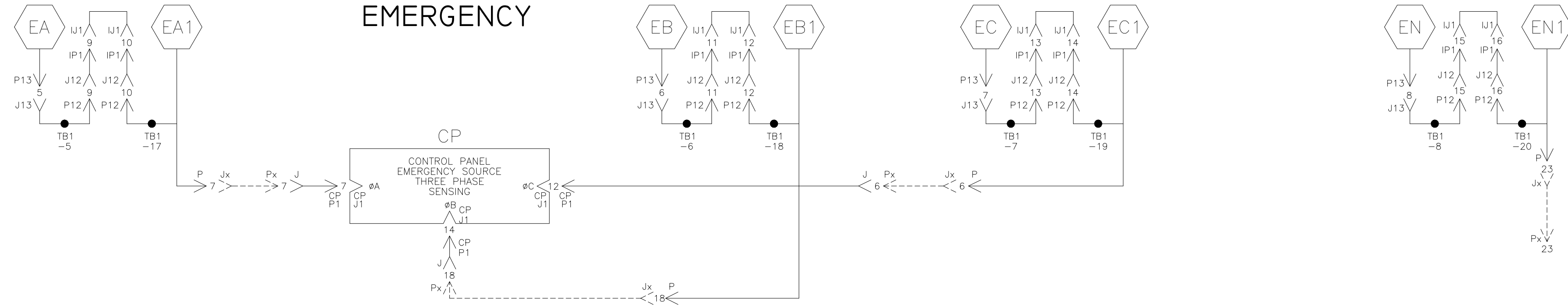
NORMAL SOURCE CIRCUITS

NORMAL



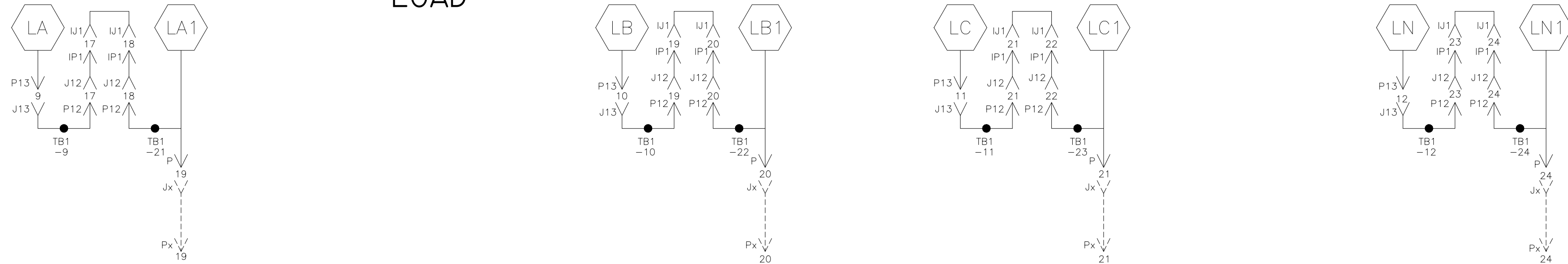
EMERGENCY SOURCE CIRCUITS

EMERGENCY

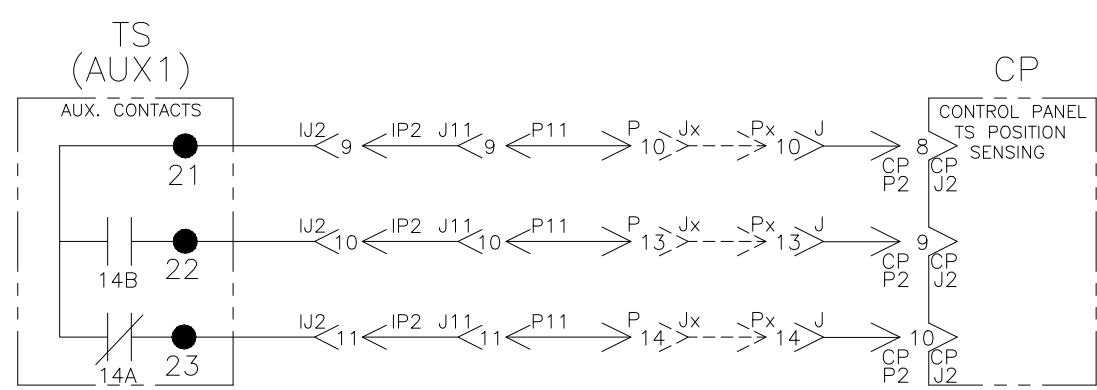


LOAD TERMINAL CIRCUITS

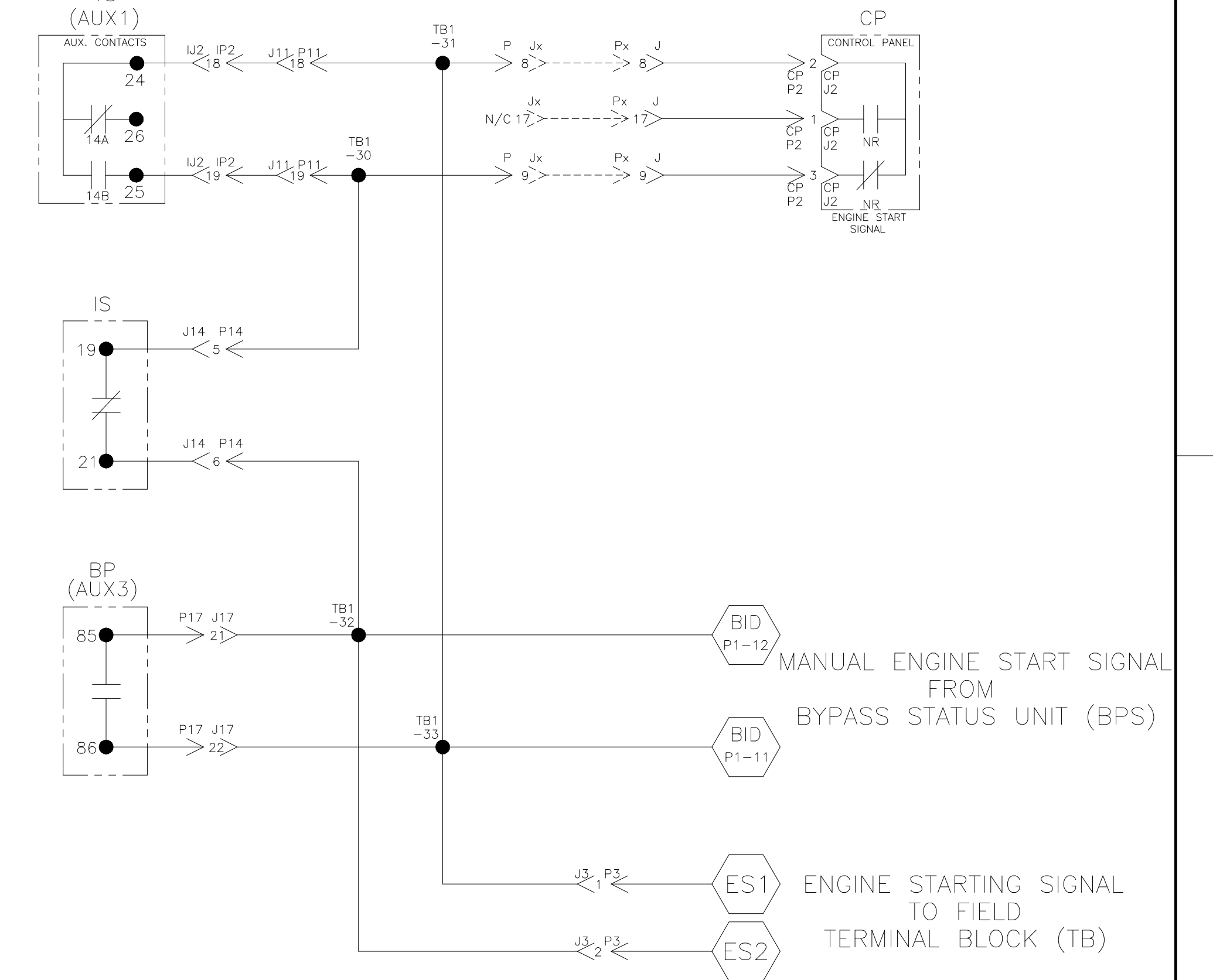
LOAD



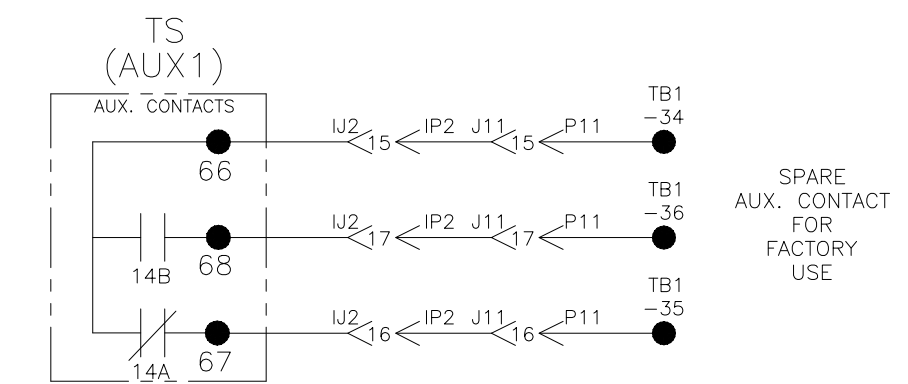
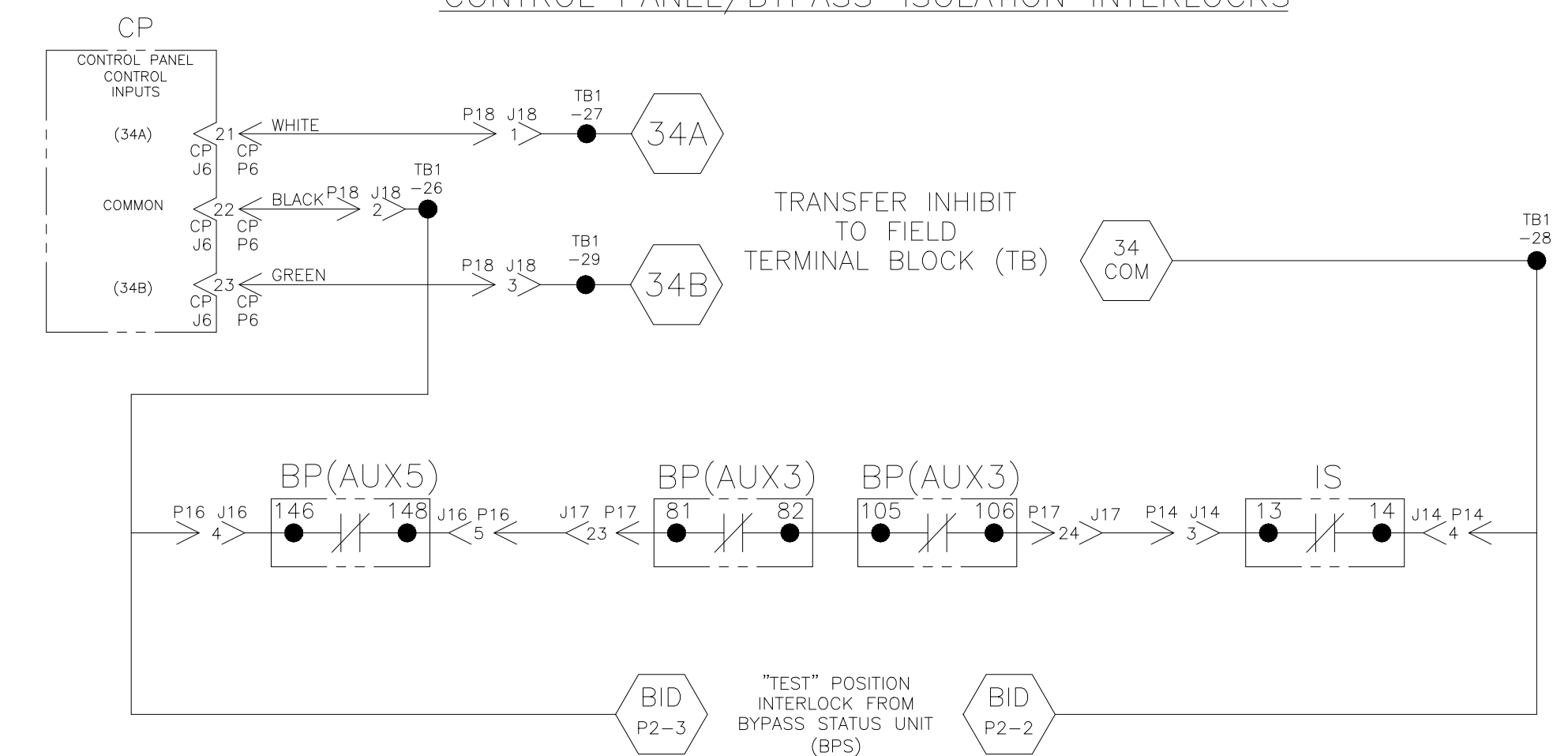
CONTROL SIGNALS & INDICATION



ENGINE START CIRCUIT



CONTROL PANEL/BYPASS-ISOLATION INTERLOCKS



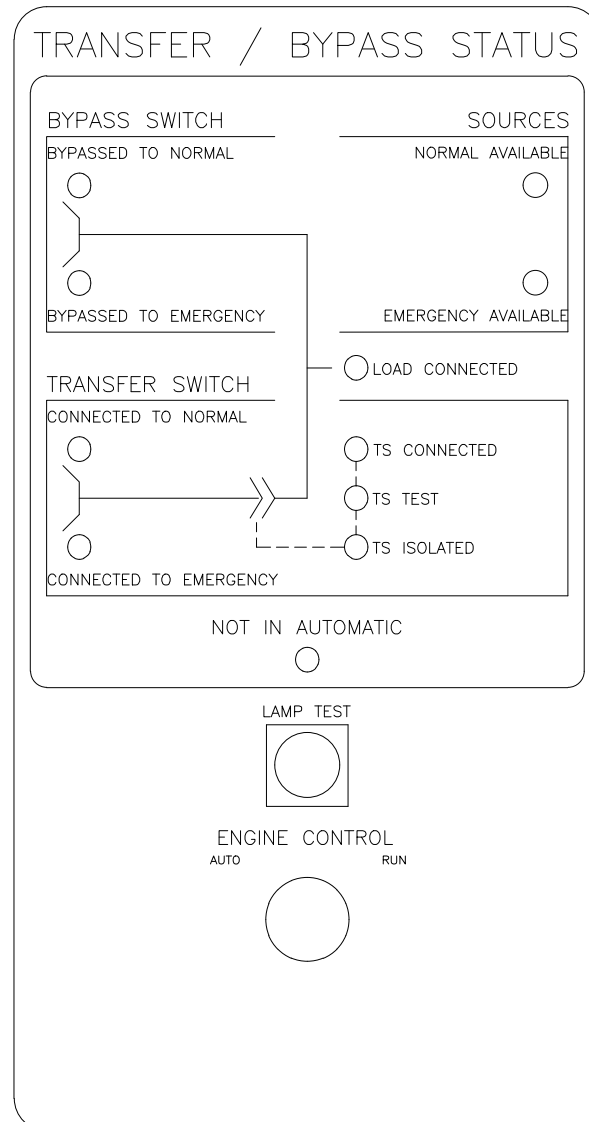
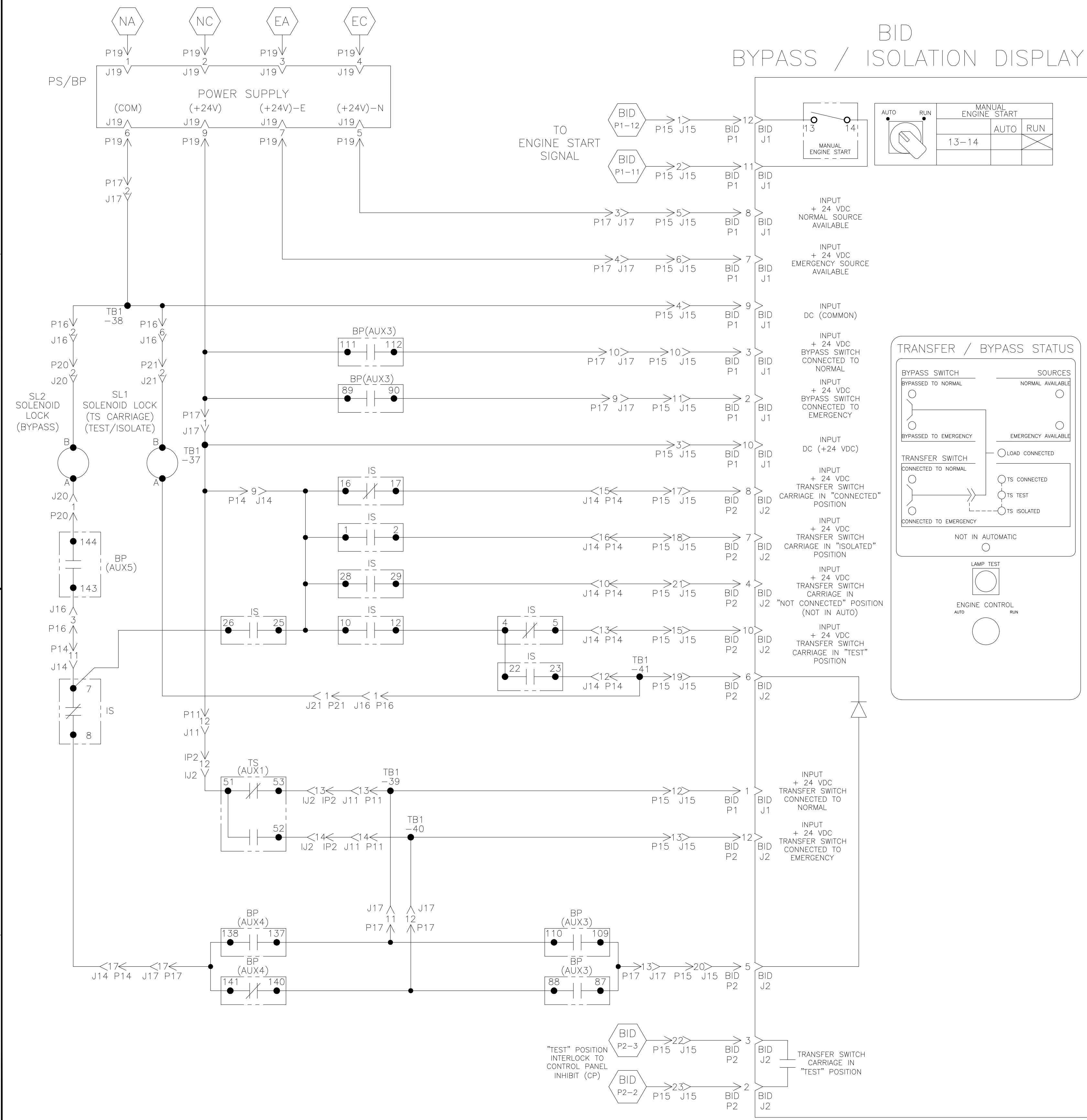
L	280031	TR	BK	08/01/19
	SEE ECN			
K	201421	BWM	BK	08/16/04
	SEE ECN			

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING DIAGRAM						
7000 SERIES (H7ATB) 3PH 600-1200 AMPS						
"H" FRAME, GROUP 5 CONTROLS						
DRAWN BY	SDH	DATE	03/03/03	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE	NO. SIZE DS
PROJECT APPROVAL						735259
FINAL APPROVAL	SDH	03/03/03		ASCO POWER TECHNOLOGIES, L.P.		DRAWING L ECN NO. 280031 SHEET 4 OF 8

BYPASS / ISOLATION INTERLOCKING & INDICATION

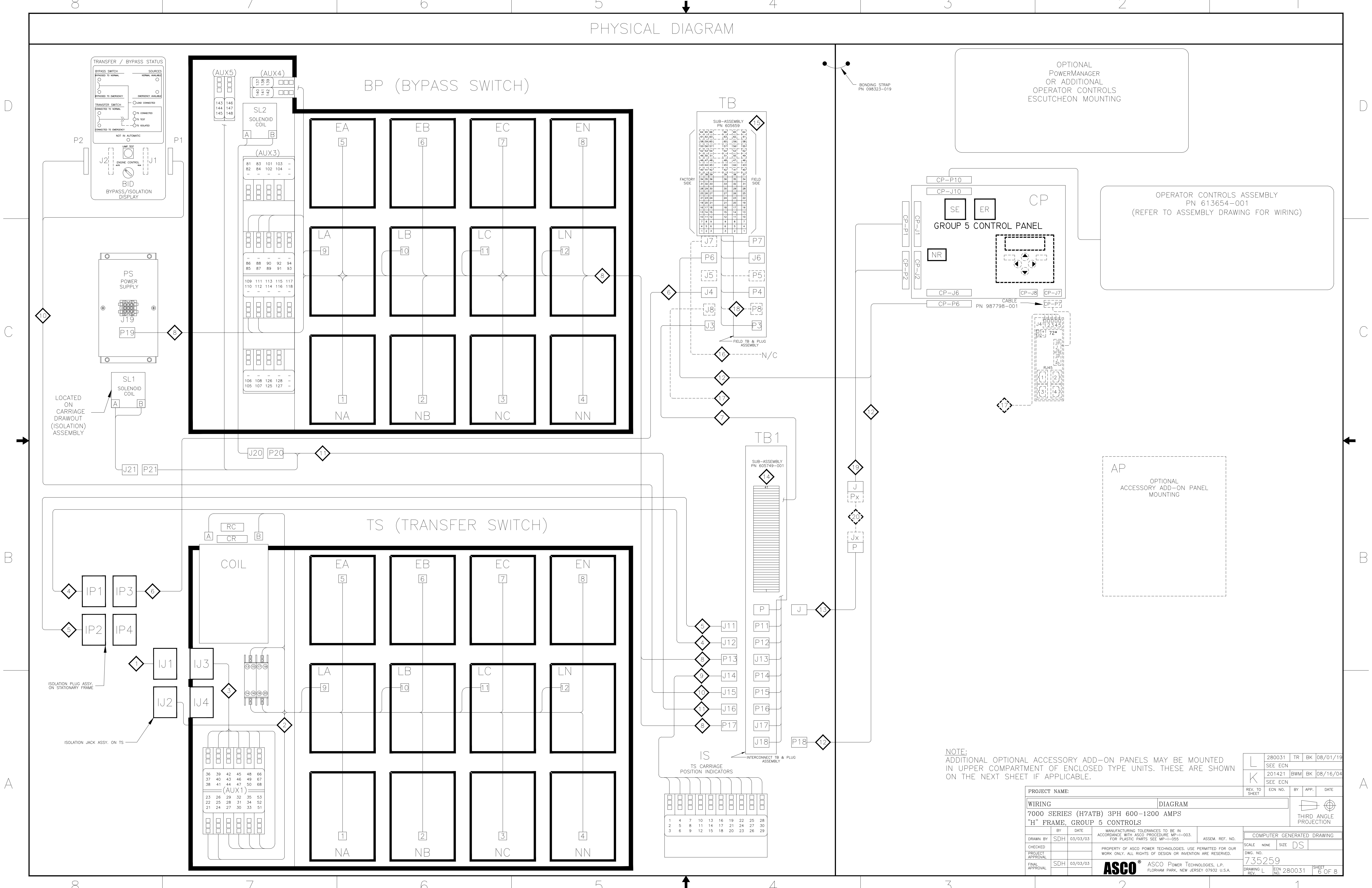
ADDITIONAL CIRCUITS

BID  
BYPASS / ISOLATION DISPLAY



PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING		SDH	03/03/03			
7000 SERIES (H7ATB) 3PH 600-1200 AMPS		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.				
"H" FRAME, GROUP 5 CONTROLS		PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				
DRAWN BY	CHECKED	PROJECT APPROVAL	FINAL APPROVAL	ASSEM. REF. NO.	SCALE	SIZE
SDH					DS	DS
DRAWING L			ECN NO.	COMPUTER GENERATED DRAWING		
735259			280031	5 OF 8		
ASCOTM ASCO POWER TECHNOLOGIES, L.P.			FLORHAM PARK, NEW JERSEY 07932 U.S.A.			

PHYSICAL DIAGRAM



NOTE: ADDITIONAL OPTIONAL ACCESSORY ADD-ON PANELS MAY BE MOUNTED IN UPPER COMPARTMENT OF ENCLOSED TYPE UNITS. THESE ARE SHOWN ON THE NEXT SHEET IF APPLICABLE.

REV. TO SHEET	ECN NO.	BY	APP.	DATE
L	280031	TR	BK	08/01/19
SEE ECN				
K	201421	BWM	BK	08/16/04
SEE ECN				

PROJECT NAME:		COMPUTER GENERATED DRAWING	
WIRING DIAGRAM		7000 SERIES (H7ATB) 3PH 600-1200 AMPS "H" FRAME, GROUP 5 CONTROLS	
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005	ASSEM. REF. NO.
SDH	03/03/03		
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE NONE SIZE DS
PROJECT APPROVAL			DWG. NO. 735259
FINAL APPROVAL	SDH 03/03/03	ASCO® ASCO POWER TECHNOLOGIES, L.P. FLOHAM PARK, NEW JERSEY 07932 U.S.A.	DRAWING L ECN NO. 280031 SHEET 6 OF 8

OPTIONAL POWERMANAGER OR ADDITIONAL OPERATOR CONTROLS ESCUTCHEON MOUNTING

OPERATOR CONTROLS ASSEMBLY PN 613654-001 (REFER TO ASSEMBLY DRAWING FOR WIRING)

AP OPTIONAL ACCESSORY ADD-ON PANEL MOUNTING

NOTE: ADDITIONAL OPTIONAL ACCESSORY ADD-ON PANELS MAY BE MOUNTED IN UPPER COMPARTMENT OF ENCLOSED TYPE UNITS. THESE ARE SHOWN ON THE NEXT SHEET IF APPLICABLE.

WIRE RUN LISTING

Table 1: HARNESS LOCATOR 4 (J1) TS. WIRE No. 1-12, HARNESS 605674-001. CLR, AWG 16.

Table 2: HARNESS LOCATOR 4 (IP1,J12) STATIONARY FRAME. WIRE No. 1-12, HARNESS 605674-006-A. CLR, AWG 16.

Table 3: HARNESS LOCATOR 9 (J3,TB1) ENGINE START. WIRE No. 120-123, HARNESS 605674-007-A. CLR, AWG 16.

Table 4: HARNESS LOCATOR 9 (J14,S) ISOLATION AUX. CONTACTS. WIRE No. 150-190, HARNESS 736828-006. CLR, AWG 16.

Table 5: HARNESS LOCATOR 12 (P6,P18) INTERNAL CONTROL & FIELD INPUTS. WIRE No. 210-244, HARNESS 736828-004. CLR, AWG 16.

Table 6: HARNESS LOCATOR 2 (J2) TS. WIRE No. 1-43, HARNESS 736828-001. CLR, AWG 16.

Table 7: HARNESS LOCATOR 5 (IP2,J11) STATIONARY FRAME. WIRE No. 1-43, HARNESS 605674-006-A. CLR, AWG 16.

Table 8: HARNESS LOCATOR 8 (P13, P17, P19, BP) BP. WIRE No. 1-173, HARNESS 736828-003. CLR, AWG 16.

Table 9: HARNESS LOCATOR 9 (J14,S) ISOLATION AUX. CONTACTS. WIRE No. 159-167, HARNESS 736828-006. CLR, AWG 16.

Table 10: HARNESS LOCATOR 12 (P6,P18) INTERNAL CONTROL & FIELD INPUTS. WIRE No. 245-263, HARNESS 736828-004. CLR, AWG 16.

Table 11: HARNESS LOCATOR 3 (J3) TS STD. AUX. CONTACTS. WIRE No. 50-73, HARNESS 736828-002. CLR, AWG 16.

Table 12: HARNESS LOCATOR 6 (IP3,J4) STATIONARY FRAME. WIRE No. 50-73, HARNESS 605674-006. CLR, AWG 16.

Table 13: HARNESS LOCATOR 10 (J15, BID-P1, BID-P2) BYPASS ISOLATION DISPLAY. WIRE No. 121-151, HARNESS 736883. CLR, AWG 22.

Table 14: HARNESS LOCATOR 13 (P,J) CONTROL PANEL EXTENSION. WIRE No. 310-405, HARNESS 309320-006. CLR, AWG 16.

Table 15: HARNESS LOCATOR 11 (J16, P20, P21, J20) BP/IS INTERLOCKS. WIRE No. 154-192, HARNESS 736828-005. CLR, AWG 16.

PROJECT NAME: WIRING DIAGRAM. 7000 SERIES (H7ATB) 3PH 600-1200 AMPS. "H" FRAME, GROUP 5 CONTROLS. Includes revision table, drawing info, and ASCO logo.

WIRE RUN LISTING

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	CLR	AWG
WIRE No.	SUB-ASSEMBLY (TB1,P,P11,P12,J13,P14,P15,P16,J17,J18) MAIN INTERCONNECT ASSEMBLY			
1	P-2,P11-7			16
21	P-3,P11-2			
3	P-4,TB1-15			
5	P-5,P11-8			
7	P-6,TB1-19			
5	P-7,TB1-17			
120	P-8,TB1-31			
38	P-9,TB1-30			
28	P-10,P11-9			
2	P-11,TB1-14			
1	P-12,TB1-13			
30	P-13,P11-10			
29	P-14,P11-11			
24	P-16,P11-5			
6	P-18,TB1-18			
9	P-19,TB1-21			
10	P-20,TB1-22			
11	P-21,TB1-23			
4	P-22,TB1-16			
8	P-23,TB1-20			
12	P-24,TB1-24			
1	P11-1,TB1-13			
3	P11-3,TB1-15			
5	P11-4,TB1-17			
7	P11-6,TB1-19			
31	P11-12,TB1-37			
32	P11-13,TB1-39			
33	P11-14,TB1-40			
34	P11-15,TB1-34			
35	P11-16,TB1-35			
36	P11-17,TB1-36			
120	P11-18,TB1-31			
38	P11-19,TB1-30			
39	P11-20,P-1			
40	P11-21,P-15			
1	P12-1,TB1-1			
1	P12-2,TB1-13			
2	P12-3,TB1-2			
2	P12-4,TB1-14			
3	P12-5,TB1-3			
3	P12-6,TB1-15			
4	P12-7,TB1-4			
4	P12-8,TB1-16			
5	P12-9,TB1-5			
5	P12-10,TB1-17			
6	P12-11,TB1-6			
6	P12-12,TB1-18			
7	P12-13,TB1-7			
7	P12-14,TB1-19			
8	P12-15,TB1-8			
8	P12-16,TB1-20			
9	P12-17,TB1-9			
9	P12-18,TB1-21			
10	P12-19,TB1-10			
10	P12-20,TB1-22			
11	P12-21,TB1-11			
11	P12-22,TB1-23			
12	P12-23,TB1-12			
12	P12-24,TB1-24			
1	J13-1,TB1-1			
2	J13-2,TB1-2			
3	J13-3,TB1-3			
4	J13-4,TB1-4			
5	J13-5,TB1-5			
6	J13-6,TB1-6			
7	J13-7,TB1-7			
8	J13-8,TB1-8			
9	J13-9,TB1-9			
10	J13-10,TB1-10			
11	J13-11,TB1-11			
12	J13-12,TB1-12			
151	P14-4,TB1-28			
38	P14-5,TB1-30			
121	P14-6,TB1-32			
31	P14-9,TB1-37			
153	P14-11,P16-3			
154	P14-12,TB1-41			
155	P14-13,P15-15			
157	P14-15,P15-17			
158	P14-16,P15-18			
190	P14-17,J17-17			
121	P15-1,TB1-32			
120	P15-2,TB1-33			
31	P15-3,TB1-37			
170	P15-4,TB1-38			
171	P15-5,J17-3			
172	P15-6,J17-4			
176	P15-10,J17-10			
177	P15-11,J17-9			
32	P15-12,TB1-39			
33	P15-13,TB1-40			
154	P15-19,TB1-41			
149	P15-20,J17-13			
152	P15-21,P14-10			
191	P15-22,TB1-26			
151	P15-23,TB1-28			
154	P16-1,TB1-41			
170	P16-2,TB1-38			
191	P16-4,TB1-26			
170	P16-6,TB1-38			
31	J17-1,TB1-37			
170	J17-2,TB1-38			
32	J17-11,TB1-39			
33	J17-12,TB1-40			
121	J17-21,TB1-32			
120	J17-22,TB1-33			
150	J17-23,P16-5			
150	J17-24,P14-3			

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	CLR	AWG
WIRE No.	SUB-ASSEMBLY 605749-001 (TB1,P,P11,P12,J13,P14,P15,P16,J17,J18) MAIN INTERCONNECT ASSEMBLY (CONTINUED)			
210	J18-1,TB1-27			16
191	J18-2,TB1-26			
211	J18-3,TB1-29			
210	J18-4,TB1-27			
151	J18-5,TB1-28			
211	J18-6,TB1-29			
120	TB1-31,TB1-33			
	REMOVE WIRES			
312	P-17			
41	P11-22			
42	P11-23			
43	P11-24			
26	J13-13			
140	J13-14			
27	J13-15			
340	J13-16			
341	J13-17			
342	J13-18			
343	J13-19			
344	J13-20			
345	J13-21			
346	J13-22			
347	J13-23			
348	J13-24			
159	P14-1			
27	P14-2			
169	P14-7			
168	P14-8			
156	P14-14			
161	P14-18			
162	P14-19			
163	P14-20			
164	P14-21			
165	P14-22			
166	P14-23			
167	P14-24			
173	P15-7			
174	P15-8			
175	P15-9			
178	P15-14			
156	P15-16			
400	P15-24			
153	P16-3			
150	P16-5			
401	P16-7			
402	P16-8			
403	P16-9			
404	P16-10			
405	P16-11			
406	P16-12			
407	P16-13			
408	P16-14			
409	P16-15			
410	P16-16			
411	P16-17			
412	P16-18			
413	P16-19			
414	P16-20			
415	P16-21			
416	P16-22			
417	P16-23			
418	P16-24			
173	J17-5			
174	J17-6			
157	J17-7			
175	J17-8			
178	J17-14			
419	J17-15			
189	J17-16			
155	J17-18			
420	J17-19			
421	J17-20			
215	J18-7			
216	J18-8			
217	J18-9			
218	J18-10			
219	J18-11			
220	J18-12			
221	J18-13			
222	J18-14			
223	J18-15			
224	J18-16			
225	J18-17			
226	J18-18			
227	J18-19			
228	J18-20			
229	J18-21			
230	J18-22			
231	J18-23			
232	J18-24			

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	CLR	AWG
WIRE No.	SUB-ASSEMBLY 605659 (P3,P4,J6,P7,TB) STD. FIELD TB			
120	TB-1,P3-1			16
121	TB-2,P3-2			
122	TB-3,P3-3			
50	TB-4,P4-1			
51	TB-5,P4-2			
52	TB-6,P4-3			
53	TB-7,P4-4			
54	TB-8,P4-5			
55	TB-9,P4-6			
56	TB-10,P4-7			
57	TB-11,P4-8			
58	TB-12,P4-9			
59	TB-13,P4-10			
61	TB-14,P4-12			
60	TB-15,P4-11			
62	TB-16,P4-13			
64	TB-17,P4-15			
63	TB-18,P4-14			
65	TB-19,P4-16			
68	TB-20,P4-18			
66	TB-21,P4-17			
68	TB-22,P4-19			
70	TB-23,P4-21			
69	TB-24,P4-20			
71	TB-25,P4-22			
73	TB-26,P4-24			
72	TB-27,P4-23			
210	TB-28,J6-1			
151	TB-29,J6-2			
211	TB-30,J6-3			
243	TB-31,J6-4			
244	TB-32,J6-5			
270	TB-34,P7-1			
271	TB-35,P7-2			
304	J8-5,72*-4			
305	J8-6			
306	J8-7			
307	J8-8			
308	J8-9			
	TB-28,TB-29			
	TB-29,TB-30			
	JUMPERS			
	TB-28,TB-29			
	TB-29,TB-30			
	ADD WIRES			
123	P3-4			
245	J6-6			
246	J6-7			
247	J6-8			
248	J6-9			
249	J6-10			
250	J6-11			
251	J6-12			
252	J6-13			
253	J6-14			
254	J6-15			
255	J6-16			
256	J6-17			
257	J6-18			
258	J6-19			
259	J6-20			
260	J6-21			
261	J6-22			
262	J6-23			
263	J6-24			
273	P7-4			
274	P7-5			
275	P7-6			
276	P7-7			
277	P7-8			
278	P7-9			
279	P7-10			
280	P7-11			
281	P7-12			
282	P7-13			
283	P7-14			
284	P7-15			
285	P7-16			
286	P7-17			
287	P7-18			
288	P7-19			
289	P7-20			
290	P7-21			
291	P7-22			
292	P7-23			
293	P7-24			

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	CLR	AWG
WIRE No.	HARNESS (J7) OPTIONAL FIELD OUTPUTS			
270	J7-1			16
271	J7-2			
272	J7-3			
273	J7-4			
274	J7-5			
275	J7-6			
276	J7-7			
277	J7-8			
278	J7-9			
279	J7-10			
280	J7-11			
281	J7-12			
282	J7-13			
283	J7-14			
284	J7-15			
285	J7-16			
286	J7-17			
287	J7-18			
288	J7-19			
289	J7-20			
290	J7-21			
291	J7-22			
292	J7-23			
293	J7-24			

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	CLR	AWG
WIRE No.	HARNESS 605454-005 (J8) OPTIONAL SERIAL I/O			
300	J8-1,72*-5	SHLD	22	
301	J8-2,72*-1	WHT/ORG	(4 COND)	
302	J8-3,72*-2	ORG/WHT	SHELD	
303	J8-4,72*-3	WHT/BLU	TTP	
304	J8-5,72*-4	BLU/WHT	TTP	
305	J8-6			
306	J8-7			
307				