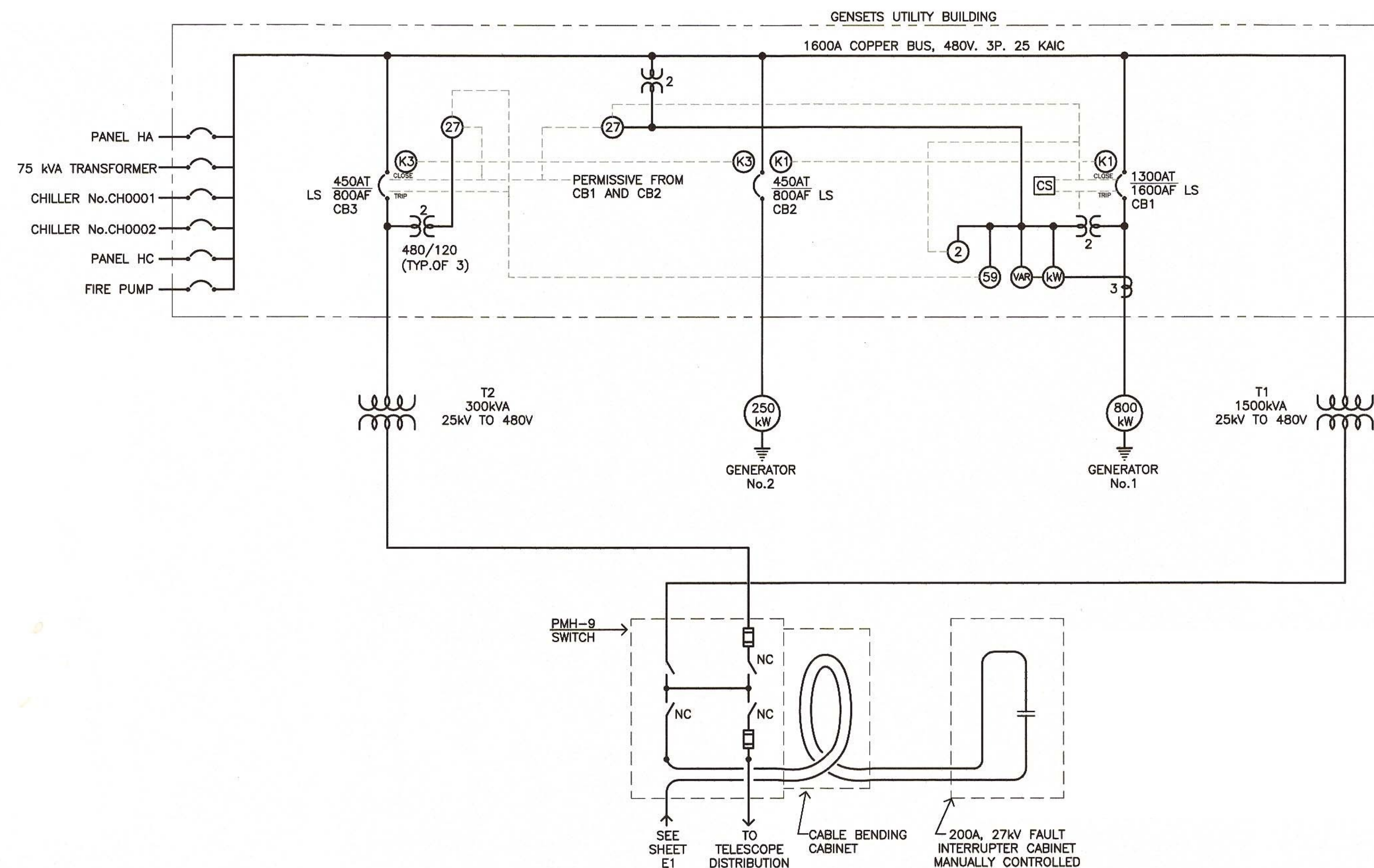
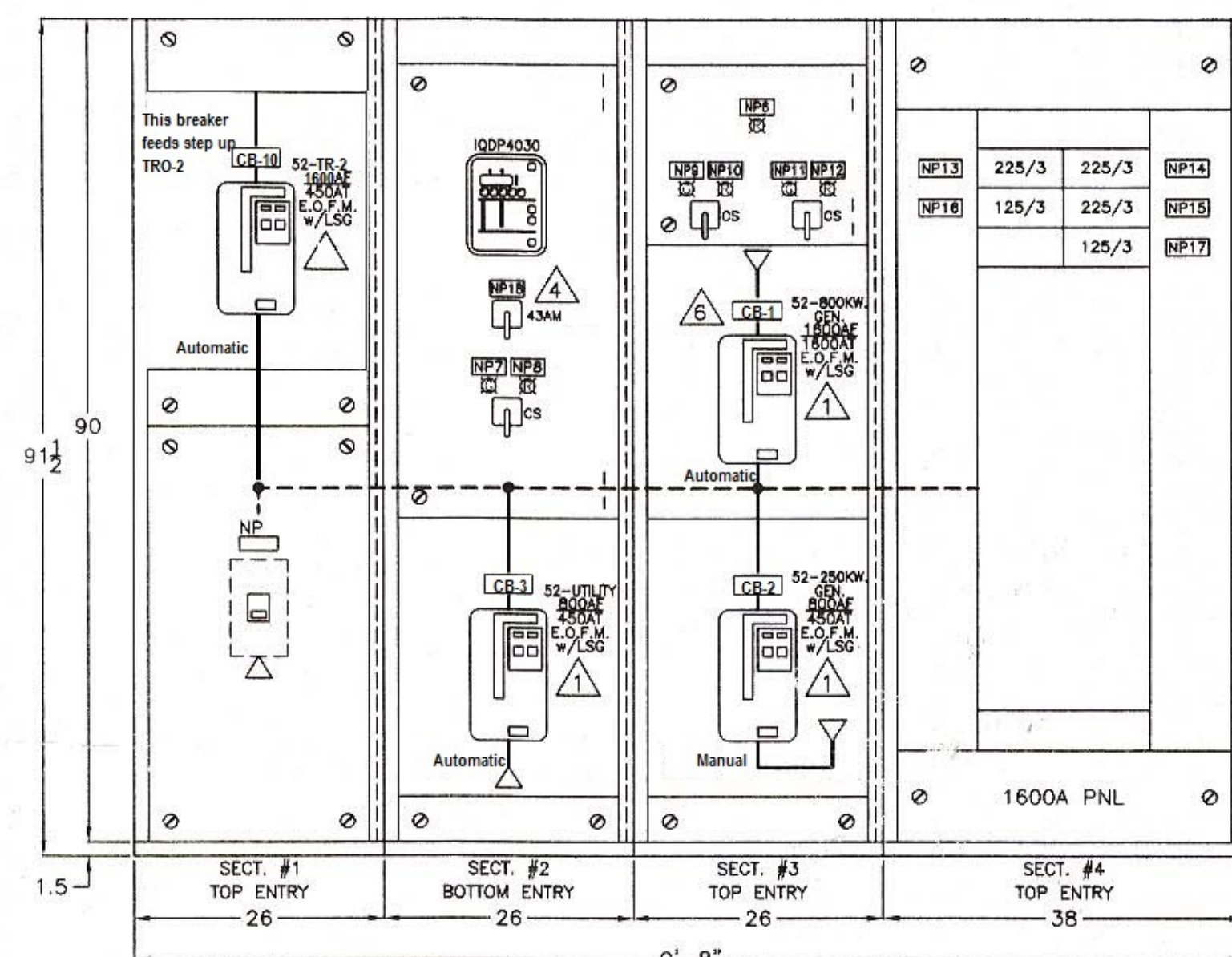
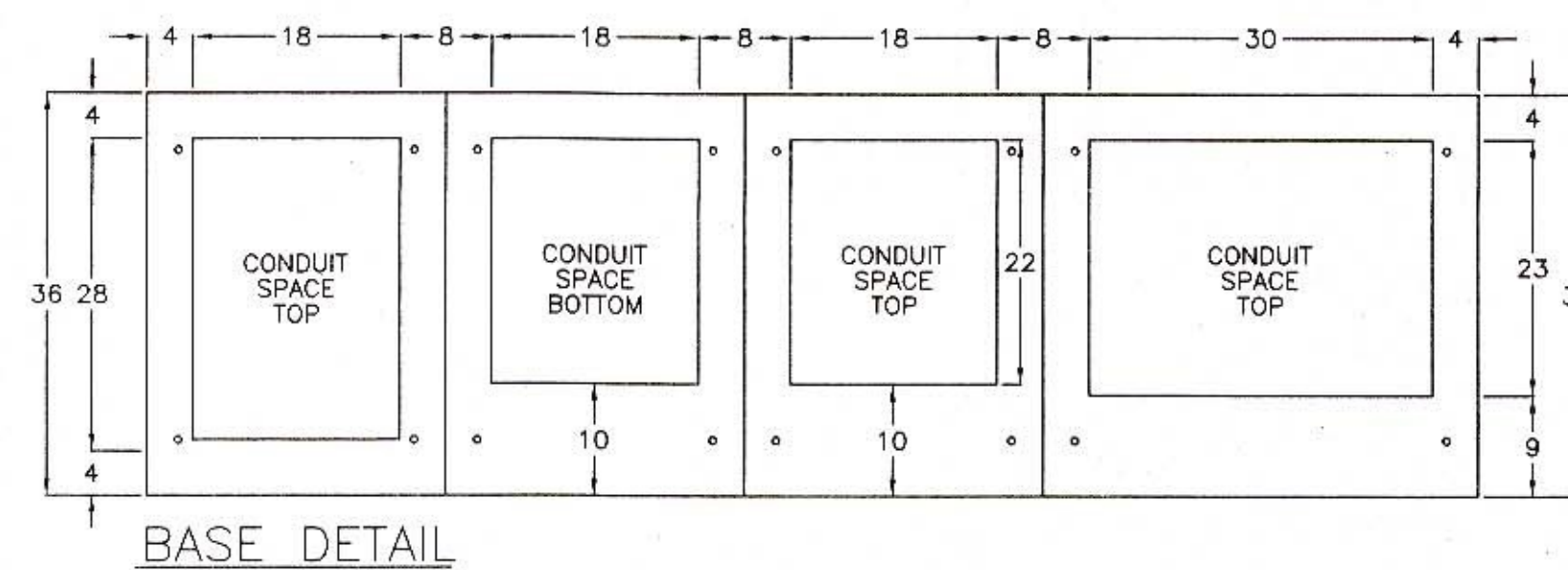
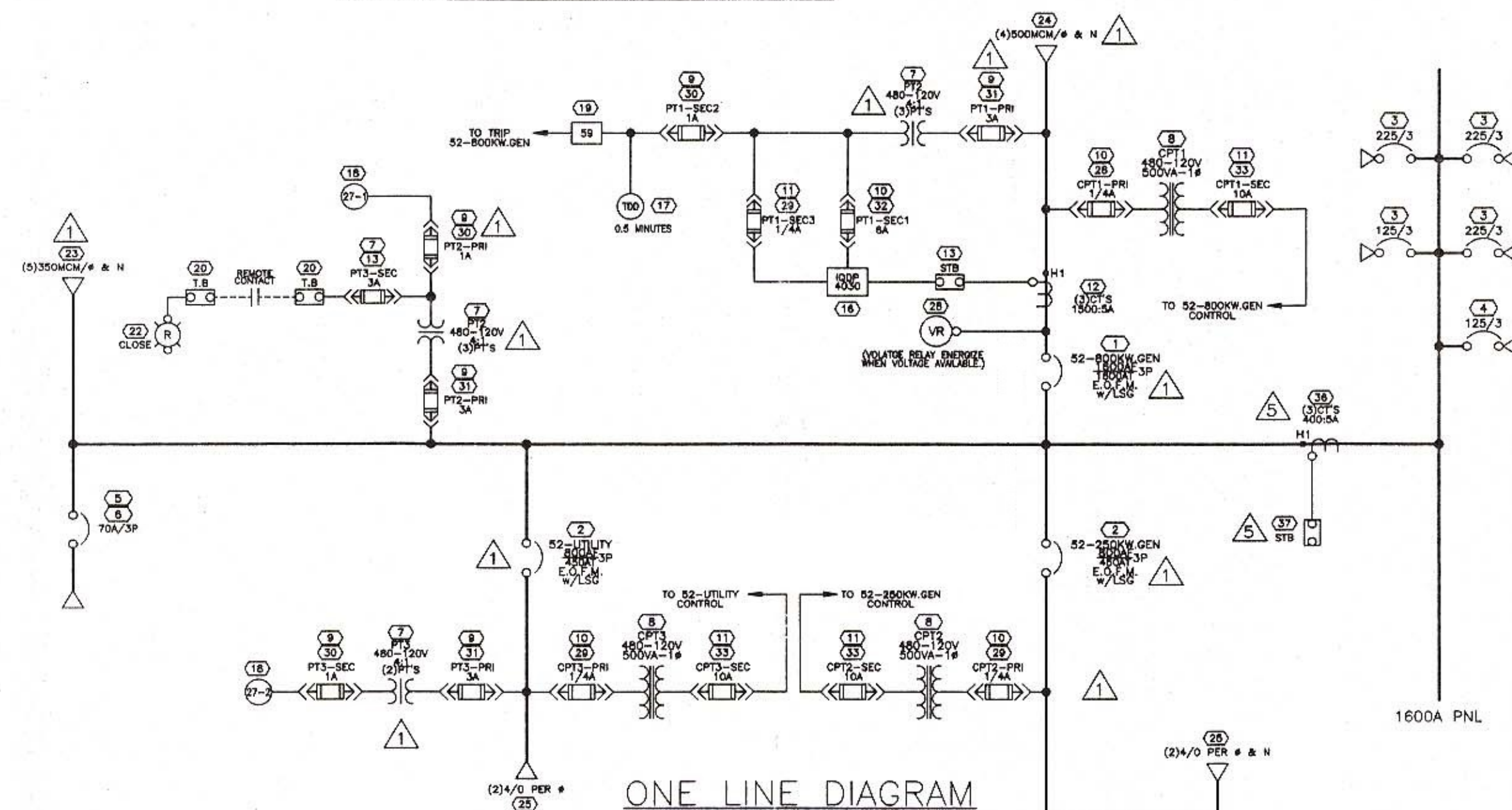






GENSETS' SWITCHGEAR "SWG-1"
 480Y/277V-3Ø-4W-1600A
 NEMA-1 S.C.C.=25KAIC



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
3 1 1	2	CUTLER-HAMMER #MDS4183VEA-57864, 1600A/3P MAGNUM DS BREAKER, ELECTRICALLY OPERATED, FIXED MOUNTED, WITH DIGITRIP 520 AND LSIG TRIP FUNCTION, 120VAC SPRING CHARGING MOTOR AND RELEASING COIL, 120VAC SHUNT TRIP, 4A, 4B AUXILIARY SWITCHES, KIRK LOCK PROVISION, 1600A SENSOR AND RATING PLUG, 42KAIC @480V
3 1 2-1 THRU 2-2	2	CUTLER-HAMMER #MDS4083VEA-57864, 800A/3P MAGNUM DS BREAKER, ELECTRICALLY OPERATED, FIXED MOUNTED, WITH DIGITRIP 520 AND LSIG TRIP FUNCTION, 120VAC SPRING CHARGING MOTOR AND RELEASING COIL, 120VAC SHUNT TRIP, 4A, 4B AUXILIARY SWITCHES, KIRK LOCK PROVISIONS, 800A SENSOR AND RATING PLUG, 42KAIC @480V
3-1 THRU 3-3	3	CUTLER-HAMMER #FD3125, 125A/3P THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER, 25KAIC @480V
4-1 THRU 4-2	2	CUTLER-HAMMER #FD3125, 125A/3P THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER, 25KAIC @480V
5	1	CUTLER-HAMMER #FD3070, 70A/3P THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER, 25KAIC @480V
6	1	CUTLER-HAMMER #3TA100FD, LUGS FOR ITEM #5, (1) #4-4/0 PER PHASE
5 1 7-1 THRU 7-9	9	ITI #FMC 480-120V, 4:1 POTENTIAL TRANSFORMER
5 1 8-1 THRU 8-3	3	SOD #500SV1, 480-120V, 800VA ONE PHASE CONTROL POWER TRANSFORMER
1 9-1 THRU 9-6	6	GOULD #USCC31, 600V, 3-POLE, 30-AMP FUSE HOLDER
1 10-1 THRU 10-7	7	GOULD #USCC21, 600V, 2-POLE, 30-AMP FUSE HOLDER
11-1 THRU 11-5	5	GOULD #USCC11, 600V, ONE POLE, 30-AMP FUSE HOLDER
12-1 THRU 12-3	3	ITI #568TS-152, 1500:5A CURRENT TRANSFORMER
13	1	CONNECTRON #KUSC4, 4-POINT SHORTING TERMINAL BLOCK
1 14	1	ES #24203B, SELECTROL SWITCH AUTO-MANUAL DEV-43AM DOUBLE THROW SWITCH
15-1 THRU 15-3	3	ES #2438D, BREAKER CONTROL SWITCH WITH OPERATION FLAG "OPEN-CLOSE"
16	1	CUTLER-HAMMER #GDP4030, POWER MONITOR WITH POWER SUPPLY
17	1	AGASTAT #7022AK, OFF DELAY RELAY (1-300SEC) TIME RANGE, 120VAC COIL, DOUBLE POLE, DOUBLE THROW
3 1 18-1 THRU 18-2	2	BASLER #BE3-27744-12, UNDER VOLTAGE RELAY, 3-PHASE 4-WIRE, 120VAC, 60HZ, DE-ENERGIZE TO TRIP (27T), ADJUSTABLE NOMINAL VOLTAGE RANGE (75%-100%) DEV-27-1 & 27-2
3 1 19	1	BASLER #BE3-27744-12, OVER VOLTAGE RELAY, 3-PHASE 4-WIRE, 120VAC, 60HZ, ENERGIIZE TO TRIP (59T), ADJUSTABLE NOMINAL VOLTAGE RANGE (100%-125%) DEV-59
6 20-1 THRU 20-11	11	CONNECTRON #KUI2, 12-POINT TERMINAL BLOCK WITH (11) #SP1605, MARKING STRIP
21-1 THRU 21-3	3	G.E. #CR104PLG320, 120VAC, TRANSFORMER RATED, GREEN PILOT LIGHT
22-1 THRU 22-4	4	G.E. #CR104PLG32R, 120VAC, TRANSFORMER RATED, RED, PILOT LIGHT
23-1 THRU 23-21	21	BURNDY #YA31-2N, UNINSULATED, COPPER COMPRESSION LUGS, LONG BARREL, 350MCM
24-1 THRU 24-16	16	BURNDY #YA34-2N, UNINSULATED, COPPER COMPRESSION LUGS, LONG BARREL, 500MCM
25-1 THRU 25-30	30	BURNDY #YA28-2N, UNINSULATED, COPPER COMPRESSION LUGS, LONG BARREL, 4/0
26	LOT	ABB #CN22-104-1802890, KIRK-LOCKS, K1, K2, K3
27	1	ABB #M3T, 3-CYLINDER TRANSFER BLOCK
28	1	SQUARE-D #8501-X040-V02, VOLTAGE RELAY, 120VAC, 4-POLE, DEV-VR
28-1 THRU 28-7	7	GOULD #ATMR1/4, 600V, 1/4AMP FUSE
30-1 THRU 30-8	8	GOULD #ATMR1, 600V, ONE AMP FUSE
31-1 THRU 31-10	10	GOULD #ATMR3, 600V, 3-AMP FUSE
32-1 THRU 32-3	3	GOULD #ATMR6, 600V, 6-AMP FUSE
33-1 THRU 33-3	3	GOULD #ATMR10, 600V, 10-AMP FUSE
34	1	C-H #9253C03H09, 1600A NEUTRAL CURRENT SENSOR
35-1 THRU 35-2	2	C-H #9253C03H05, 800A NEUTRAL CURRENT SENSOR
36-1 THRU 36-3	3	EMC #568TS-401, 400:5A CURRENT TRANSFORMER
37	1	CONNECTRON #KUSC6, 6-POINT SHORTING TERMINAL BLOCK

NOTES:

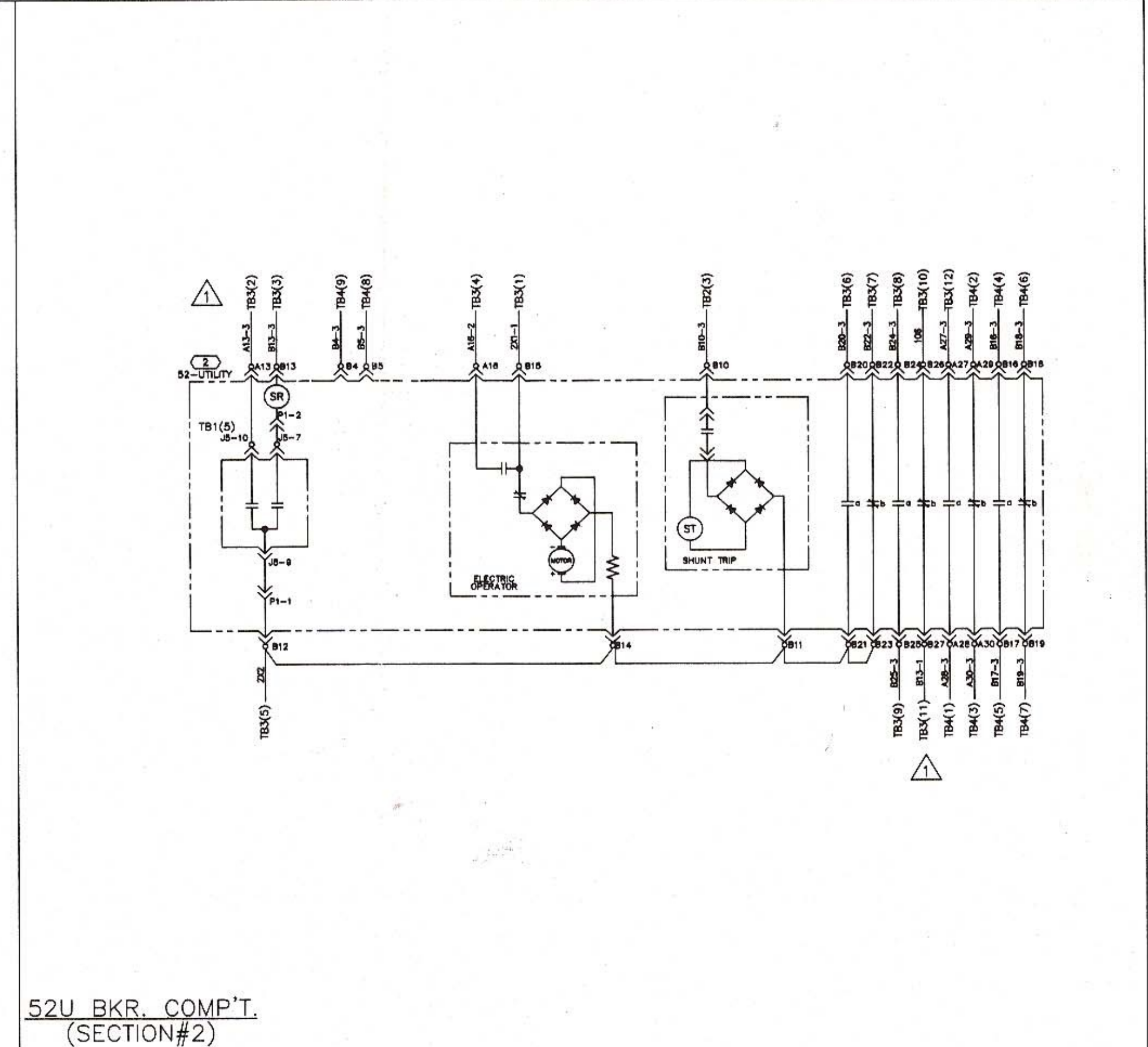
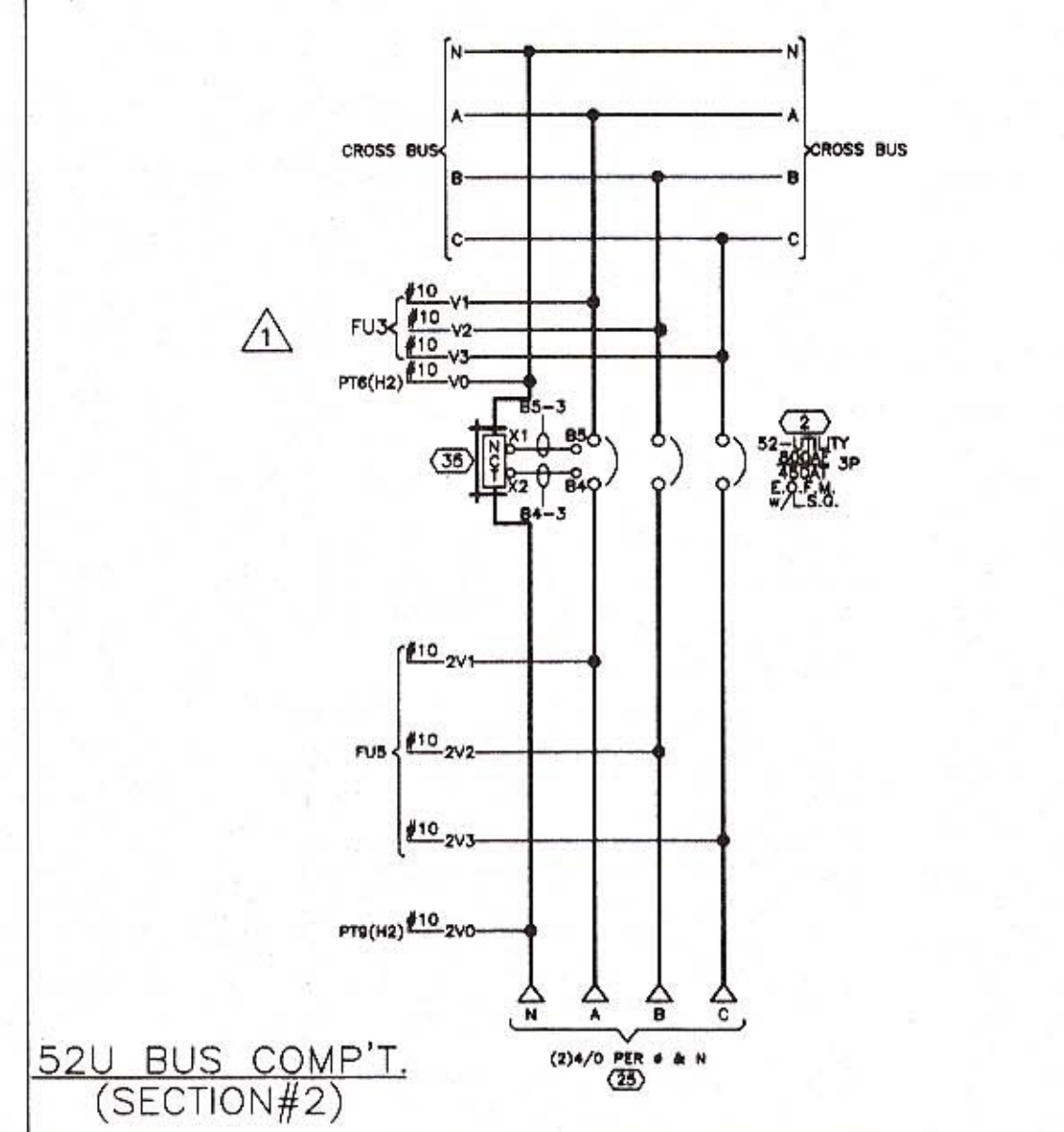
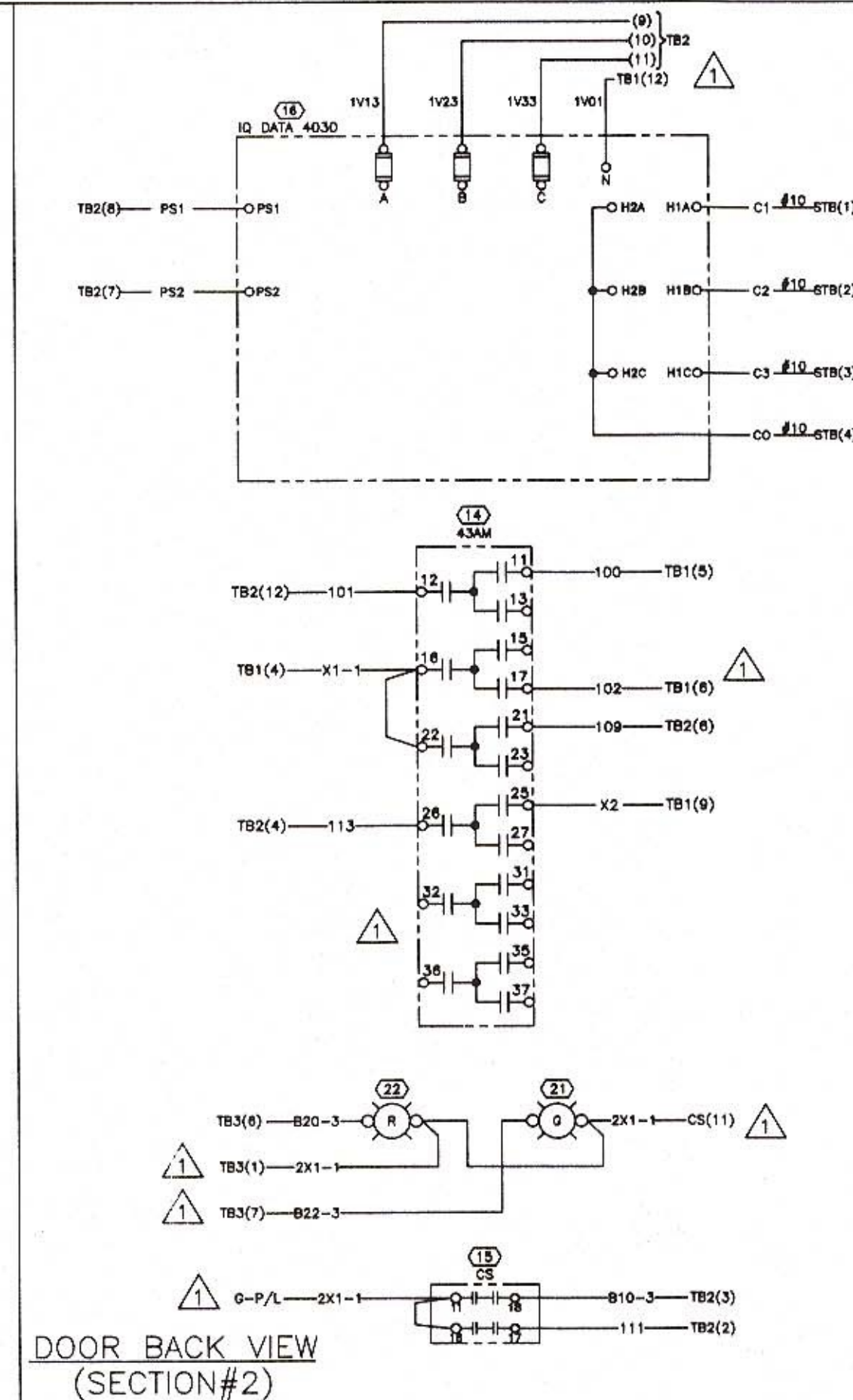
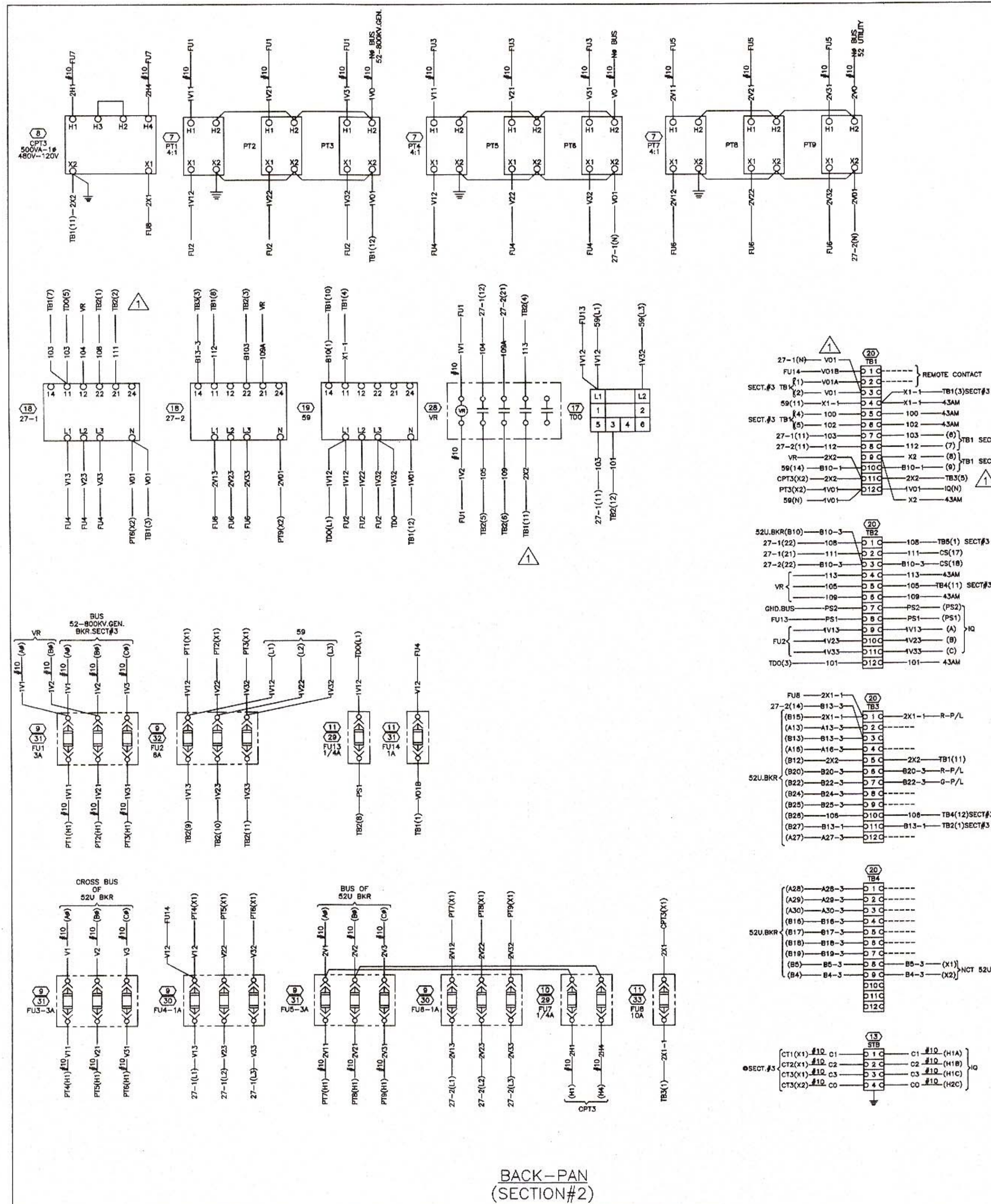
- CONSTRUCTION SHALL BE OF GAUGE SHEET STEEL NEMA TYPE-1 INDOOR ENCLOSURE.
- FINISH: ANSI #81 LIGHT GRAY, POWDER PAINT
- NAMEPLATES: WHITE PHENOLIC PLASTIC WITH BLACK CORE SCREW-ON TYPE.
- BUSSING: 1600A SILVERPLATED COPPER
 - S.C.C.= 25KAIC RMS SYMMETRICAL GROUND, 1/4" X 3"
 - 600A NEUTRAL
- SERVICE: 480Y/277V-3Ø-4W
- CONTROL WIRING: CONTROL WIRES SHALL BE #14AWG MIN. TYPE SIS, 600V, 90°C STRANDED COPPER WITH NUMBERED ON BOTH ENDS.
- PROVIDE METAL BARRIERS BETWEEN SECTIONS.
- PROVIDE 24-POINT RING TYPE TERMINAL BLOCK FOR CUSTOMER USE, TO BE MOUNTED IN SECTION#3.
- PROVIDE CRIMP LUGS (1) #4/0 ON EACH END OF GROUND BUS.

NP#	QTY	LETTER SIZE	NAMEPLATE SCHEDULE	COLOR	SIZE
NP1	1	0.75	GENSET SWITCHGEAR "SWG-1"	WHITE	2X6
NP2	1	0.25	FIRE PUMP	WHITE	2X5
NP3	1	0.25	52-UTILITY	WHITE	2X5
NP4	1	0.25	52-800KW.GEN	WHITE	2X5
NP5	1	0.25	52-250KW.GEN	WHITE	2X5
NP6	1	0.187	25KV POWER AVAILABLE	WHITE	1X3
NP7	1	0.187	52-UTILITY-OPEN	WHITE	1X3
NP8	1	0.187	52-UTILITY-CLOSE	WHITE	1X3
NP9	1	0.187	52-800KW.GEN-OPEN	WHITE	1X3
NP10	1	0.187	52-800KW.GEN-CLOSE	WHITE	1X3
NP11	1	0.187	52-250KW.GEN-OPEN	WHITE	1X3
NP12	1	0.187	52-250KW.GEN-CLOSE	WHITE	1X3
NP13	1	0.187	PANEL "HA"	WHITE	1X3
NP14	1	0.187	75KVA X-FORMER	WHITE	1X3
NP15	1	0.187	PANEL "HC" SPARE	WHITE	1X3
NP16	1	0.187	CHILLER#1	WHITE	1X3
NP17	1	0.187	CHILLER#2	WHITE	1X3
NP18	1	0.187	43AM	WHITE	1X3

Revised 3/22/2016 Removal of all aftermarket components. Switch made fully Automatic 9/2015 by S&C.
 J.Aalberg Sabino Electric

L.I. #0001

SUBMIT FOR		APPROVAL	DATE	BY
FOR		RECORD		
		RELEASE		
GENSETS SWITCHGEAR "SWG-1" FOR MOUNT GRAHAM INTERNATIONAL OBSERVATORY				
SOLD TO ADDRESS		SWITCHGEAR SOLUTIONS 2545 N. HUSCHUCA DR TUCSON, AZ 85745		P.O. NO. 99414401
INSTALLED BY ADDRESS		UNIVERSITY OF ARIZONA 1485 W. SWIFT TRAIL SAFFORD, AZ 85545		P.O. NO.
ARCHITECT		APPROVED BY		
ENGINEER				
INDUSTRIAL ELECTRIC MFG FREMONT CALIFORNIA				
DR. A. BAKIER/AR DATE 7-15-01		DWG. 85-057864		ALT.
CHK'D A. BAKIER DATE 7-15-01		SHEET 1 OF		6
DATE NO.		REVISIONS		BY

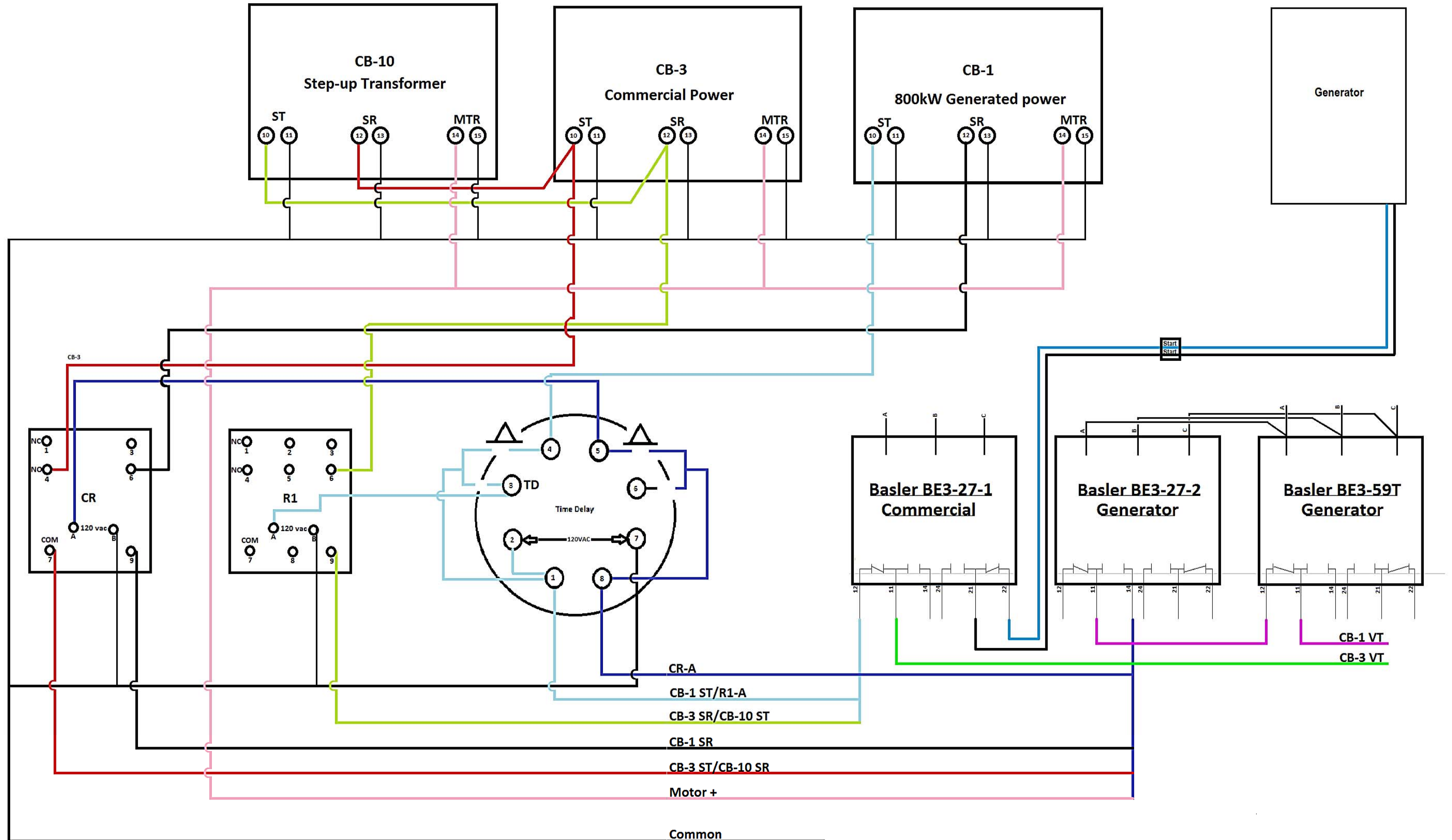


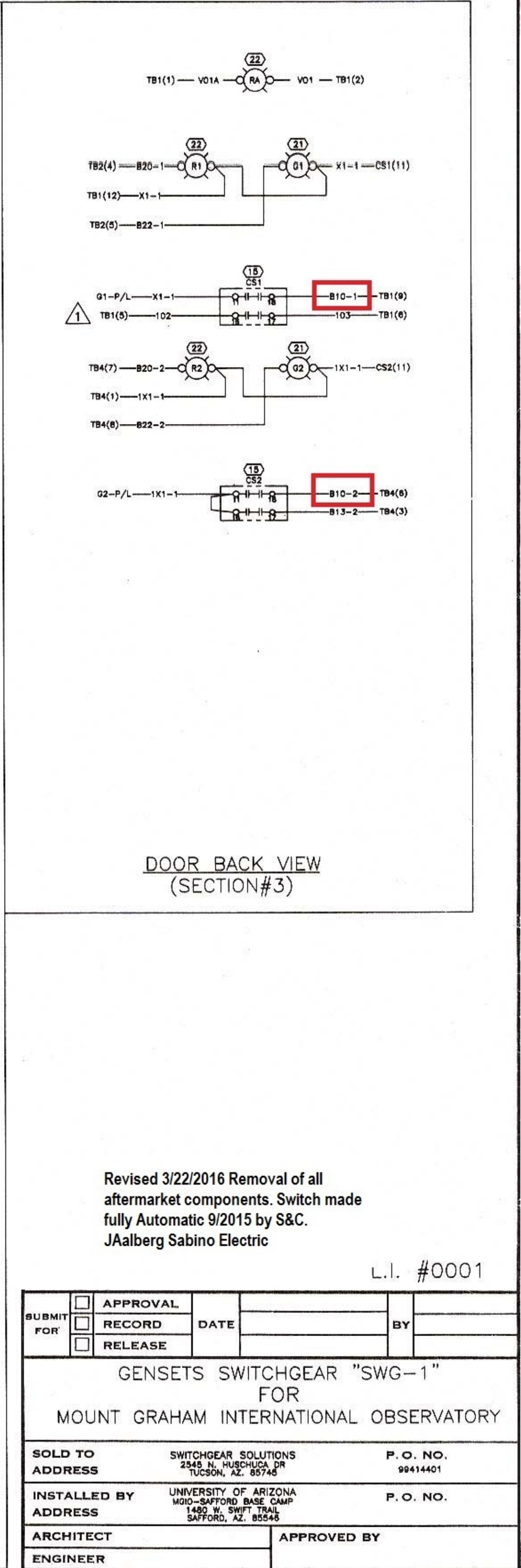
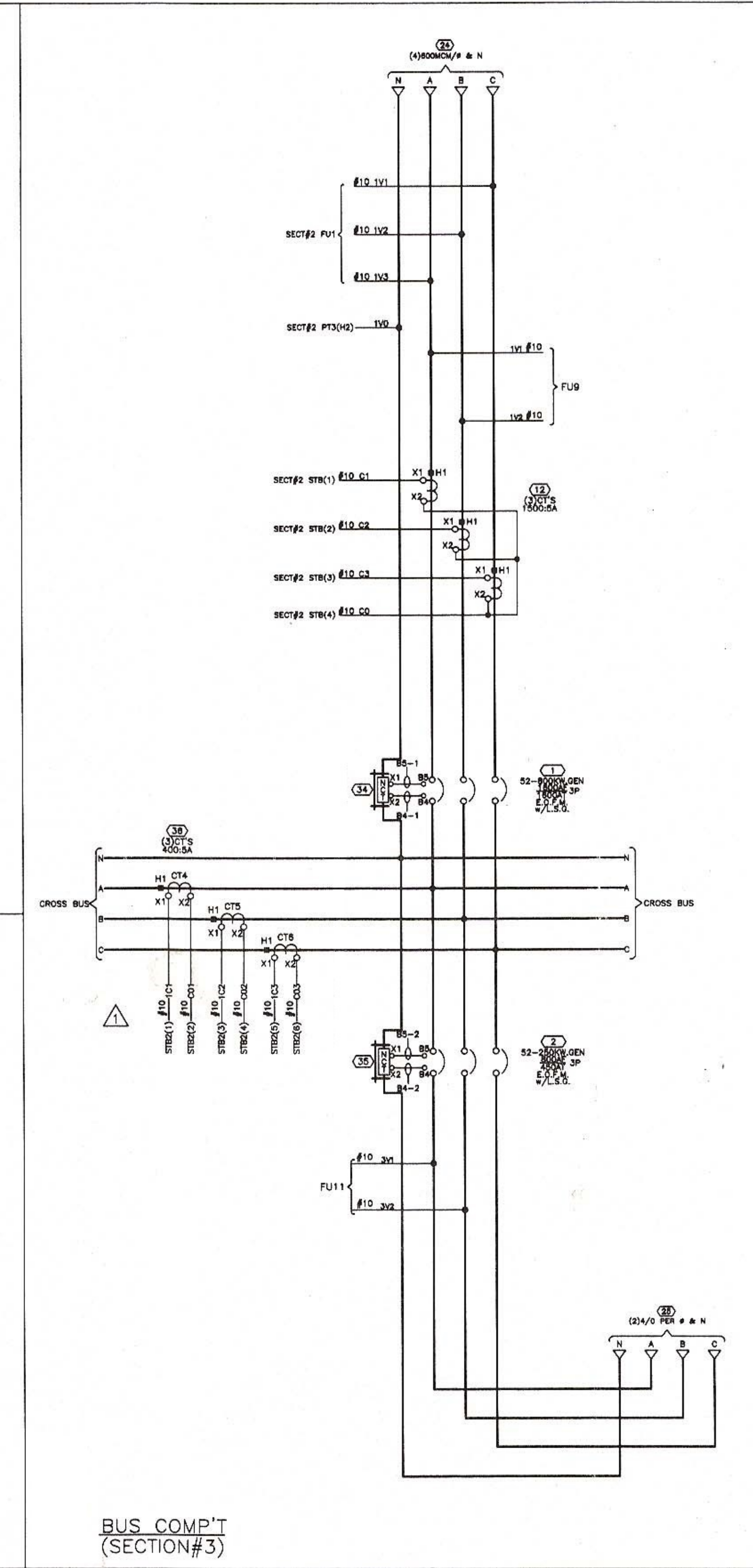
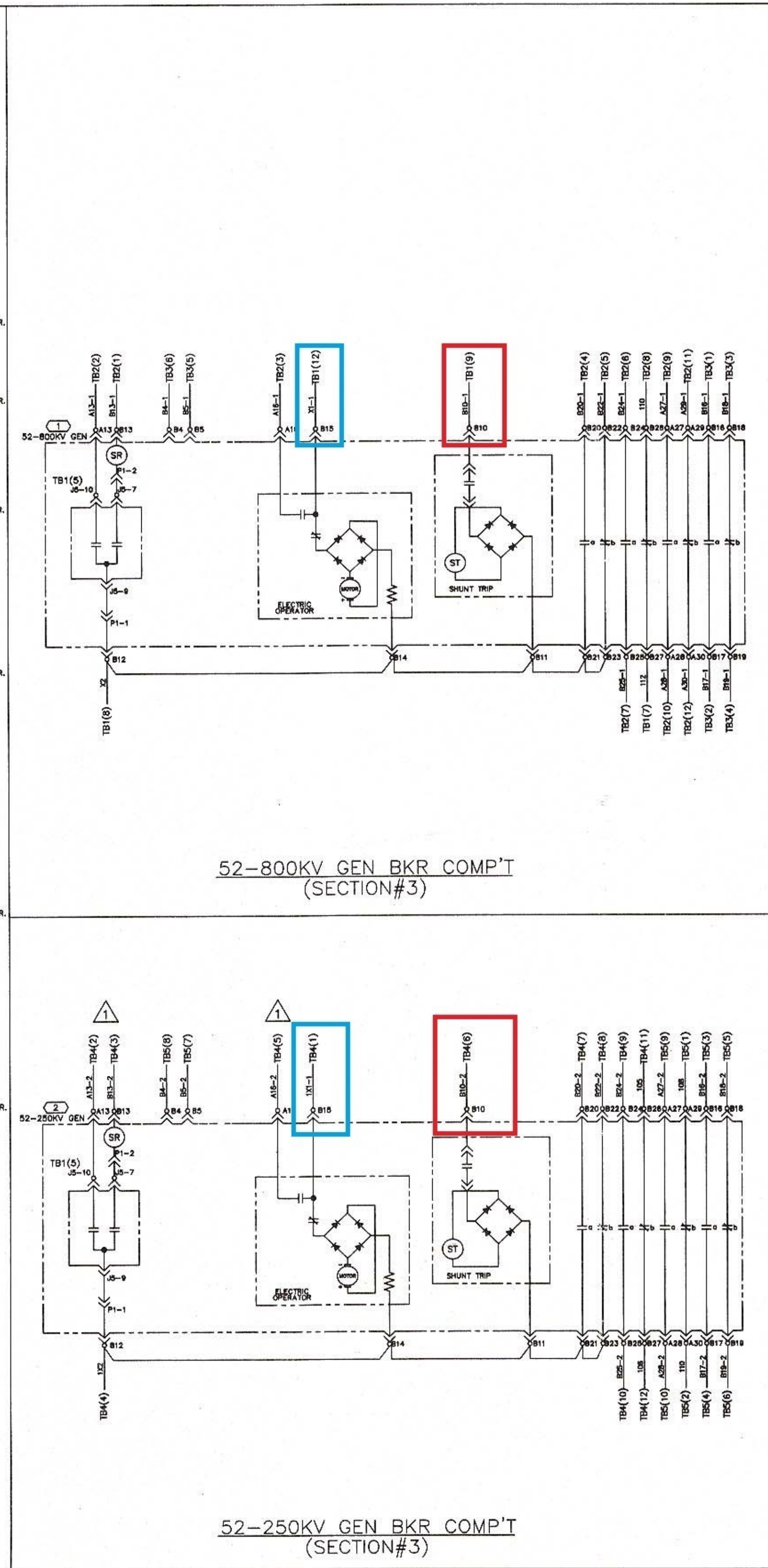
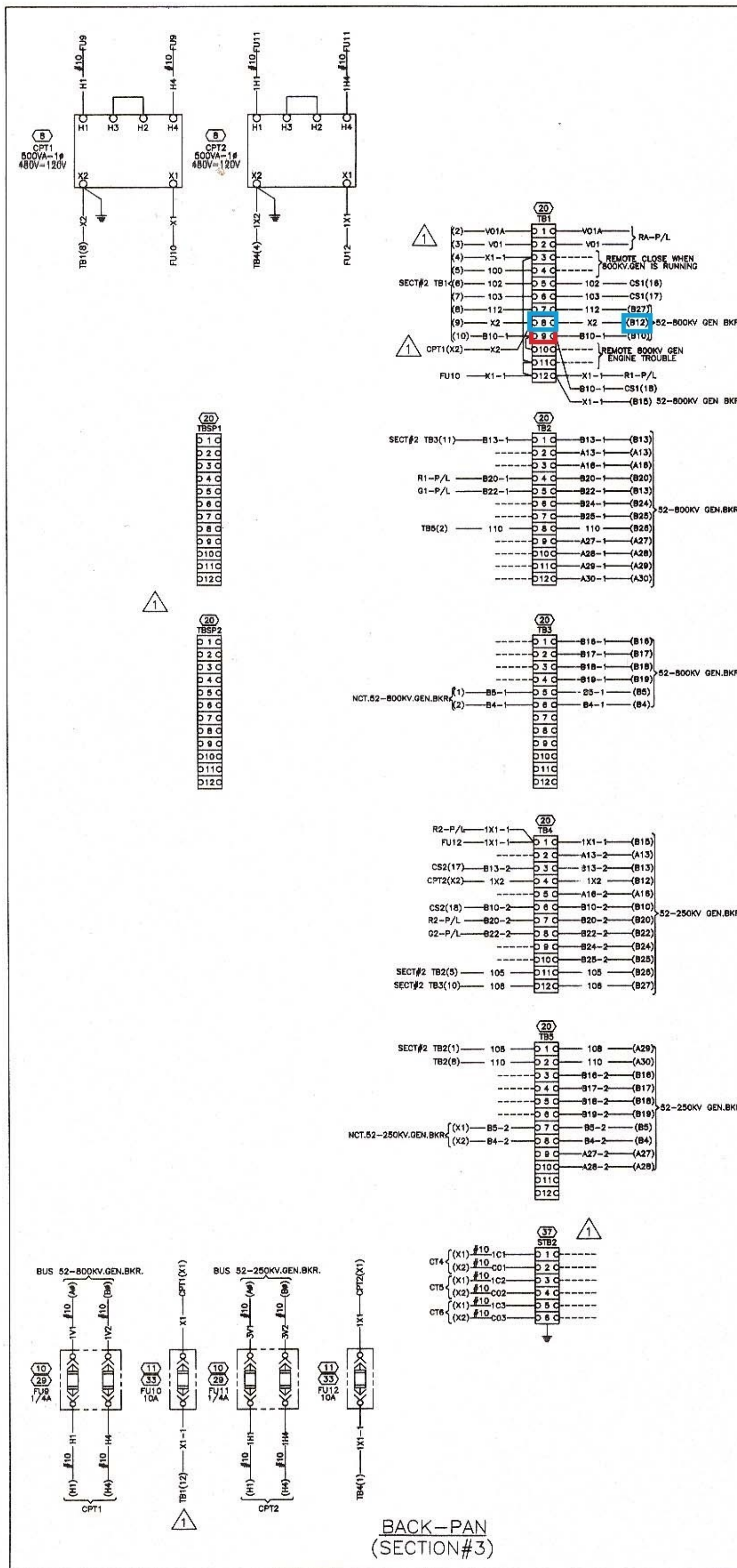
Revised 3/22/2016 Removal of all
aftermarket components. Switch made
fully Automatic 9/2015 by S&C.
JAlberg Sabino Electric

L.I. #0001

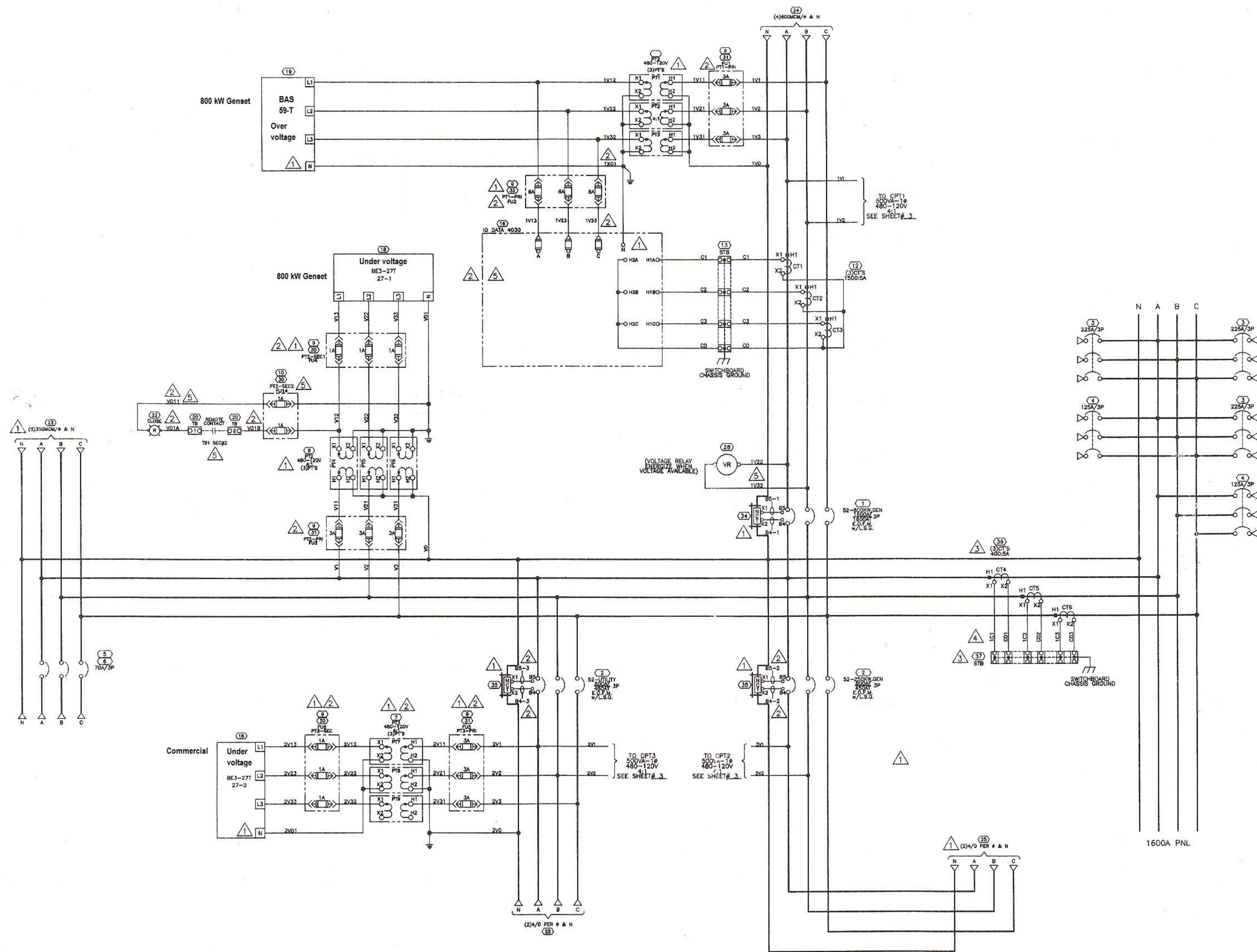
SUBMIT FOR	☐ APPROVAL	DATE	BY
	☐ RECORD		
	☐ RELEASE		
GENSETS SWITCHGEAR "SWG-1" FOR MOUNT GRAHAM INTERNATIONAL OBSERVATORY			
SOLD TO ADDRESS	SWITCHGEAR SOLUTIONS 2545 N. HUSCHUCKA DR TUCSON, AZ. 85745		P.O. NO. 09414401
INSTALLED BY ADDRESS	UNIVERSITY OF ARIZONA MID-SAFFORD BASE CAMP 1400 W. SWIFT TRL SAFFORD, AZ. 85546		P.O. NO.
ARCHITECT	APPROVED BY		
ENGINEER			
 INDUSTRIAL ELECTRIC MFG FREMONT CALIFORNIA			
DR. H. DINH	DATE	9-27-01	DWG. 85-057864 SHEET 1W1 OF
CHK'D	DATE		
SCALE	N.T.S.		ALT.

11/9/01	△	CORRECTED WIRING DIAGRAM PER REVIEW	HD
DATE	NO.	REVISIONS	BY





SUBMIT FOR		APPROVAL	RECORD	DATE	BY
APPROVAL		RECORD	DATE	BY	
GENSETS SWITCHGEAR "SWG-1" FOR MOUNT GRAHAM INTERNATIONAL OBSERVATORY					
SOLD TO ADDRESS		SWITCHGEAR SOLUTIONS 2545 N. HUSCHUCKA DR TUCSON, AZ. 85745		P. O. NO. 98414401	
INSTALLED BY ADDRESS		UNIVERSITY OF ARIZONA MOUNT GRAHAM OBSERVATORY 1450 W. SWIFT TRAIL SAFFORD, AZ. 85545		P. O. NO.	
ARCHITECT		APPROVED BY			
ENGINEER					
INDUSTRIAL ELECTRIC MFG FREMONT CALIFORNIA					
DR. H. DINH		DATE 8-27-01		DWG. 85-057864	
CHK'D		DATE		SHEET 2W1 OF	
DATE NO.		REVISIONS		BY SCALE N.T.S.	



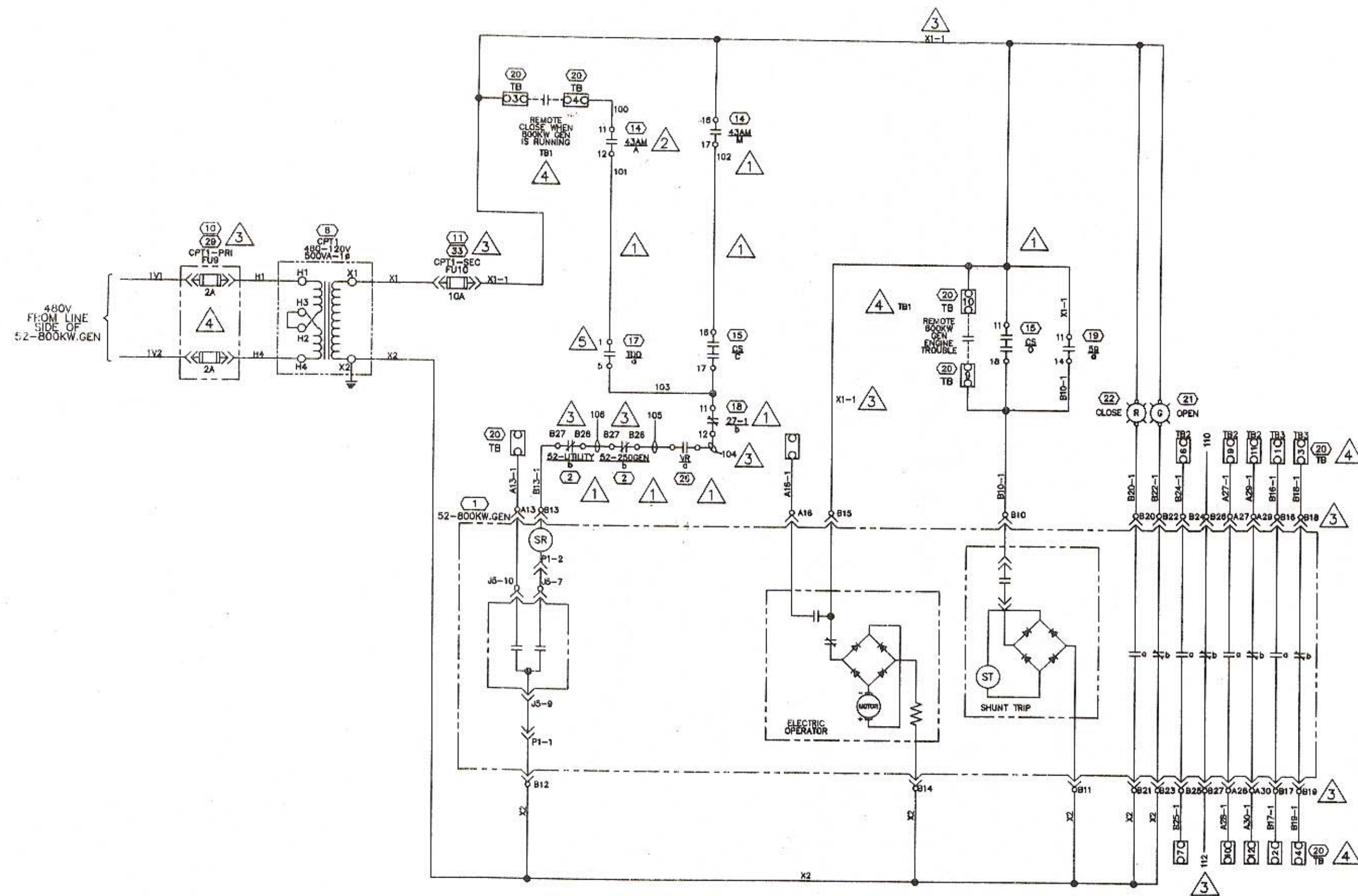
THREE LINE DIAGRAM

Revised 3/22/2016 Removal of all
aftermarket components. Switch made
fully Automatic 9/2015 by S&C.
JAalberg Sabino Electric

L.I. #0001

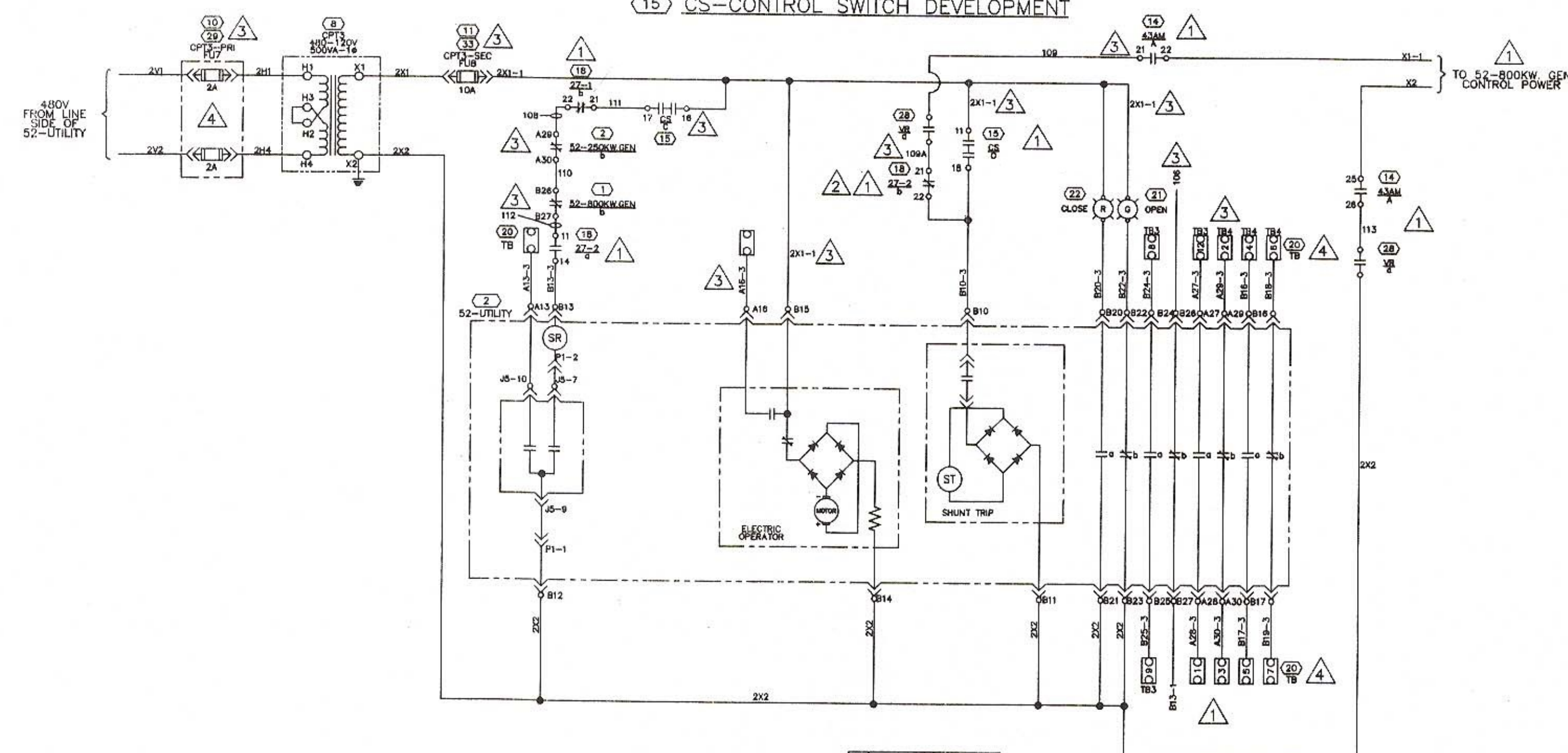
SUBMIT FOR	☐ APPROVAL	DATE	BY
	☐ RECORD		
	☐ RELEASE		
GENSETS SWITCHGEAR "SWG-1" FOR MOUNT GRAHAM INTERNATIONAL OBSERVATORY			
SOLD TO ADDRESS	SWITCHGEAR SOLUTIONS 2545 N. HUSCHUCKA DR TUCSON, AZ. 85745	P. O. NO. 99414401	
INSTALLED BY ADDRESS	UNIVERSITY OF ARIZONA MOUNT GRAHAM OBSERVATORY 1480 W. SHIFFT TOWEL SAFFORD, AZ. 85545	P. O. NO.	
ARCHITECT	APPROVED BY		
ENGINEER			
 INDUSTRIAL ELECTRIC MFG FREMONT CALIFORNIA			
DR. A. BAKIER/ A.R.	DATE 7-15-01	DWG. 85-057864	ALT.
CHK'D A. BAKIER	DATE 7-15-01	SHEET 2 OF	
DATE NO.	REVISIONS	BY	SCALE N.T.S.

11/26/01	MAKE CORRECTIONS PER ENGINEER REVIEW.	GF
11/9/01	CORRECTED WIRE NUMBERS PER REVIEW	HD
11/06/01	CHANGE P.O. NO. TO 3-400-5A CTS SEE CHANGE NOTICE 10/15/01	AB
9/28/01	MAKE CORRECTIONS PER ENGINEER REVIEW.	HD
9/28/01	CHANGED TO 480V/277V 3W, 4W, & ADD G.F. TO MOUNT GRAHAM OBSERVATORY DIAGRAMS PER CUSTOMER MARKED UP DRAWINGS PER 10/15/01	AB
DATE NO.	REVISIONS	BY



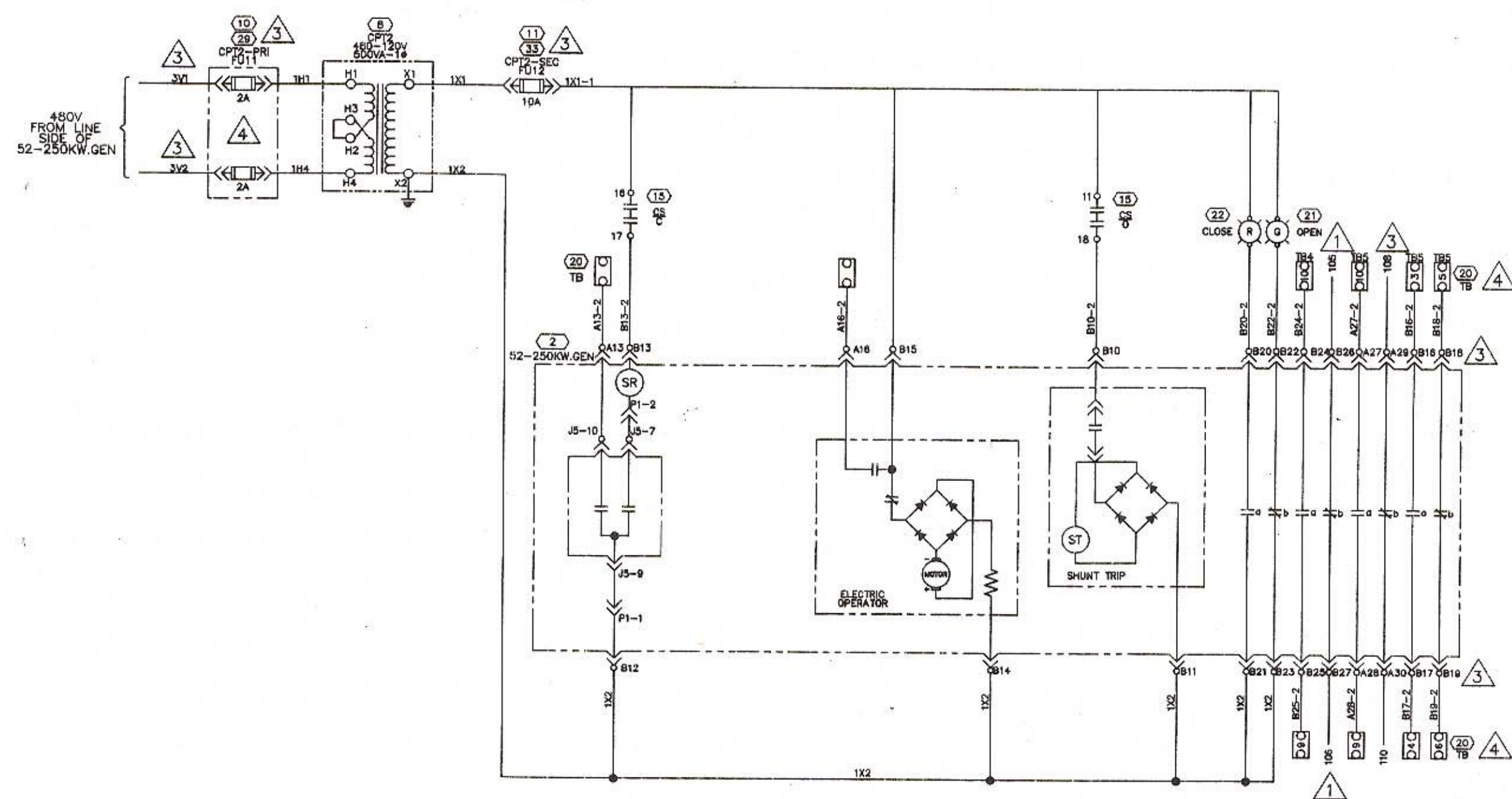
BREAKER CONTROL	CONTACTS	POSITION	
		OPEN	CLOSE
1	110-11-11-018	X	
	160-11-11-017		X

15 CS-CONTROL SWITCH DEVELOPMENT



BREAKER CONTROL	CONTACTS	POSITION	
		OPEN	CLOSE
1	110-11-11-018	X	
	160-11-11-017		X

15 CS-CONTROL SWITCH DEVELOPMENT



BREAKER CONTROL	CONTACTS	POSITION	
		OPEN	CLOSE
1	110-11-11-018	X	
	160-11-11-017		X

15 CS-CONTROL SWITCH DEVELOPMENT

THROW OVER	CONTACTS	POSITION	
		AUTO	MAN
1	120-11-11-011		X
	120-11-11-013		X
	160-11-11-015		X
	160-11-11-017		X
2	220-11-11-021		X
	220-11-11-023		X
	280-11-11-025		X
	280-11-11-027		X
3	320-11-11-031		X
	320-11-11-033		X
	360-11-11-035		X
	360-11-11-037		X

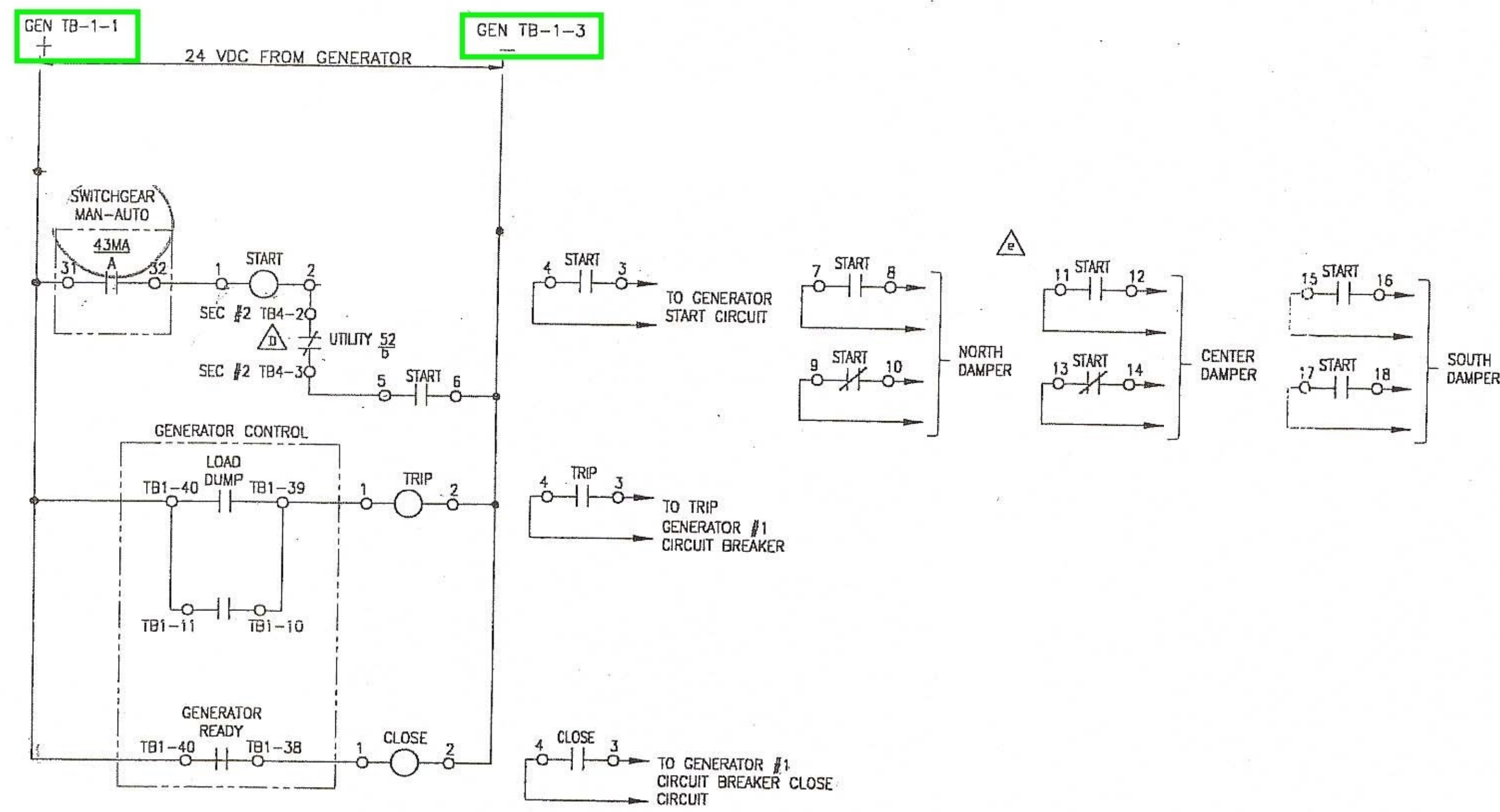
14 AUTO-MANUAL SELECTOR SWITCH DEV(43AM)

Revised 3/22/2016 Removal of all aftermarket components. Switch made fully Automatic 9/2015 by S&C. JAlberg Sabino Electric

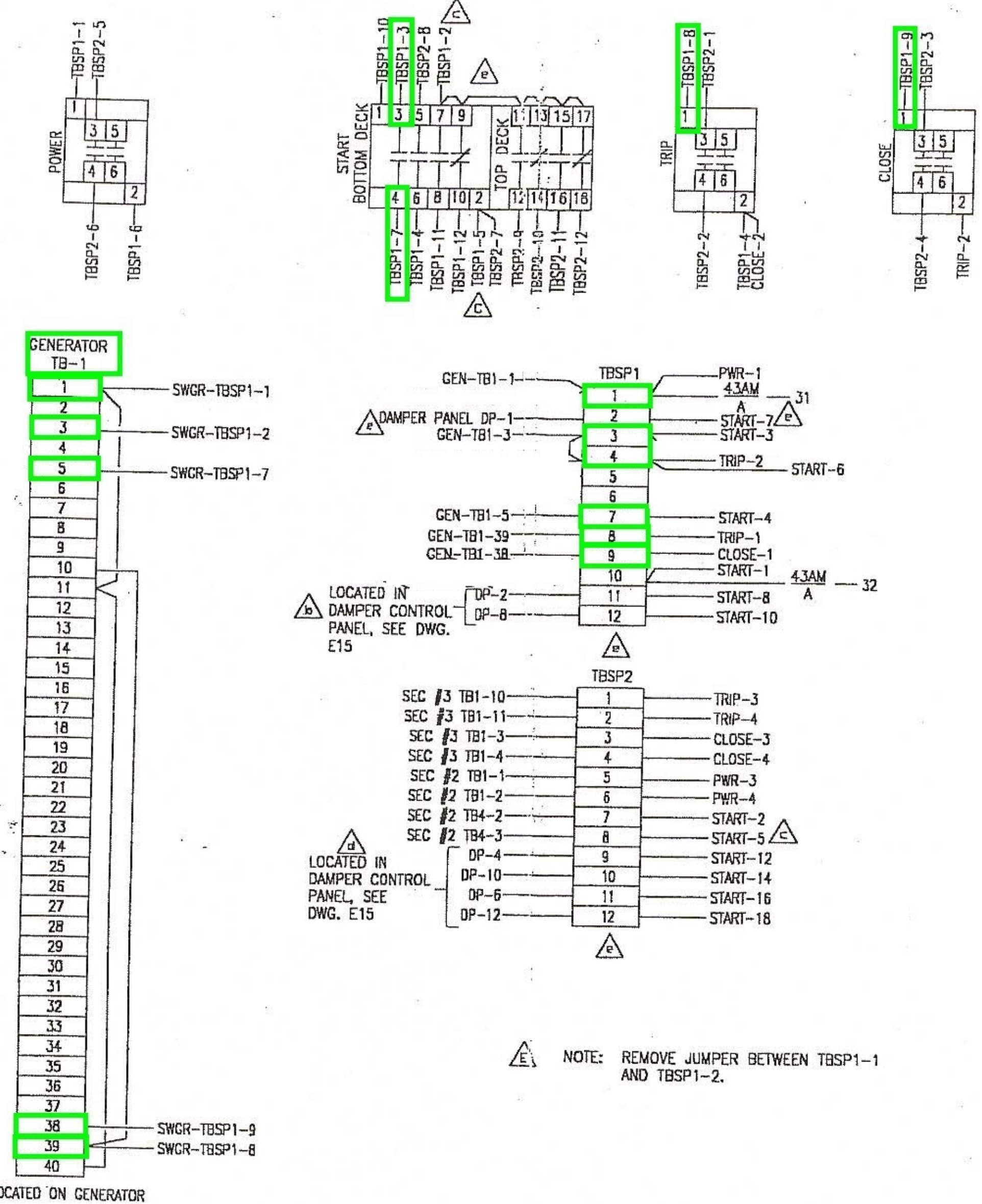
L.I. #0001

SUBMIT FOR		APPROVAL	DATE	BY
		RECORD		
		RELEASE		
GENSETS SWITCHGEAR "SWG-1" FOR MOUNT GRAHAM INTERNATIONAL OBSERVATORY				
SOLD TO ADDRESS		SWITCHGEAR SOLUTIONS 2545 N. HUSCHUA DR TUCSON, AZ 85745		P.O. NO. 99414401
INSTALLED BY ADDRESS		UNIVERSITY OF ARIZONA MGO-CADDOFF BASE CAMP 1480 W. SWIFT TRL SAFFORD, AZ 85546		P.O. NO.
ARCHITECT		APPROVED BY		
ENGINEER				
INDUSTRIAL ELECTRIC MFG FREMONT CALIFORNIA				
DR. A. BAKIER/ A.R.DATE		7-15-01		ALT. 3
CHK'D A. BAKIER		DATE 7-15-01		
SCALE		N.T.S.		
DWG. 85-057864		SHEET 3 OF		

11/26/01	MAKE CORRECTIONS PER ENGINEER REVIEW.	GF
9/28/01	MAKE CORRECTIONS PER ENGINEER REVIEW.	HD
9/17/01	CHANGED TERMINALS NUMBER AS SHOWN PER CUSTOMER MARKED-UP DRAWINGS.	AB
9/28/01	CHANGED TO 480V/277V 3Ø 4W, & ADD G.F. TO NOTES CHANGE WIRING DIAGRAMS PER CUSTOMER MARKED-UP DRAWINGS PER C/N 8/27/01	AB
DATE	NO.	REVISIONS



NOTE:
FOUR RELAYS ARE TO BE CUTLER-HAMMER 2-POLE,
WITH 2 N.O. CONTACTS AND 24 VOLT DC COIL.
CAT.# BFD20L



NOTE:
4.3AM - AUTO MANUAL SWITCH LOCATED ON
SWITCHGEAR SECTION #2

M3 Engineering & Technology Corporation ARCHITECTURE ENGINEERING TECHNOLOGY TUCSON, ARIZONA TELEPHONE (520) 690-8209 FAX NO. (520) 293-8177		M3-PN 99184	
DESIGN BY:	M3	DATE:	09/01
DRAWN BY:	JE	DATE:	09/01
LAST REV BY:	JE	DATE:	02/13/02
CHECK BY:	CRR	DATE:	11/19/01
ACCEPT BY:	J. HILL	DATE:	12/18/01
RELEASE BY:	CRR	DATE:	11/05/01
SCALE:	LOCAL DWG. FILE:	E14	CAN NO:
UNITS:	FORM (0/1) SCALED BY:	NTS	120m032
PREPARED BY: D/AI PEN OR A/AA LASER		REV: g	

Mount Graham International Observatory
UTILITY BUILDING EXPANSION
 1800 Iron Camp 1450 W. 3rd Trail, Tucson, AZ 85748 Ph. 1 520 428-2738 Fax. 1 520 428-2854
 CIVIL & SITE
 MGIO
 MGIO PLANS
 POWER GENERATION
 ELEMENTARY/INTERCONNECTION

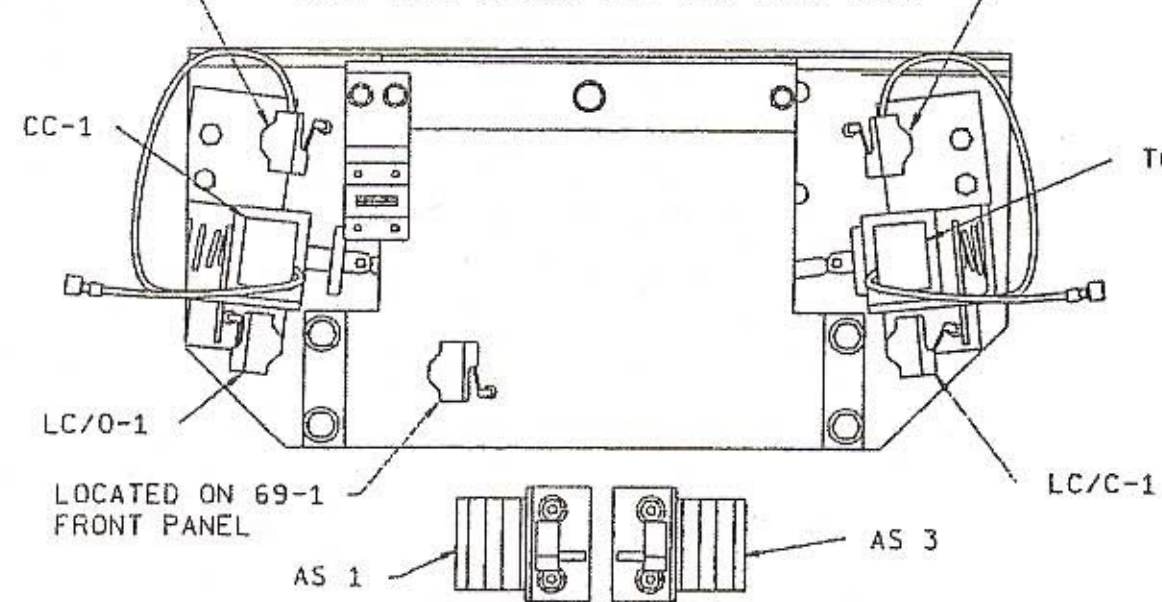
DEVICE DESIGNATION

DASH 1 & DASH 3 DEVICES ARE ASSOCIATED WITH THE LEFT SIDE.
DASH 2 & DASH 4 DEVICES ARE ASSOCIATED WITH THE RIGHT SIDE.

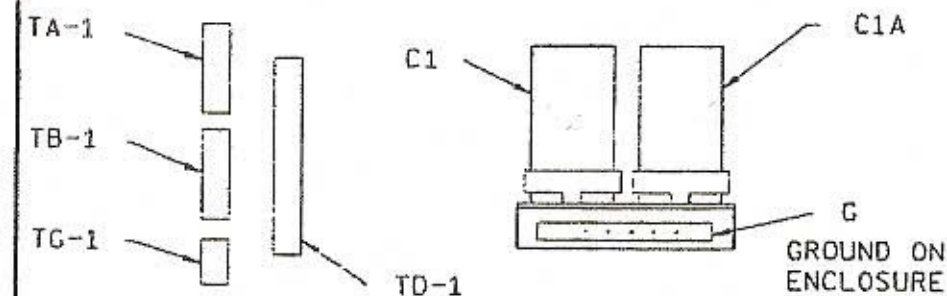
- 29-1, 29-2 — DECOUPLING POSITION SWITCH
LC/O-1, LC/O-2 — LATCH-CHECK-OPEN SWITCH
LC/C-1, LC/C-2 — LATCH-CHECK-CLOSE SWITCH
69-3, 69-4 — KEY INTERLOCK (OPTION C5)
69-1, 69-2 — OPERATION-SELECTOR INTERLOCK SWITCH
TC-1, TC-2 — TRIP-OPEN SOLENOID
CC-1, CC-2 — TRIP-CLOSE SOLENOID
SCO-1, SCO-2 — SPRING CHARGED TO OPEN
SCC-1, SCC-2 — SPRING CHARGED TO CLOSED
M-1, M-2 — CHARGING MOTOR
C1, C1A, C2, C2A — STORAGE CAPACITOR FOR TRIP ENERGY
IT-1, IT-2 — TRIP OPEN PUSHBUTTON
IC-1, IC-2 — TRIP CLOSE PUSHBUTTON
REC-1, REC-2 — REMOTE CONTROL RECEPTACLE
- ac — SWITCH-POSITION AUXILIARY SWITCHES (DEVICES AS 1 & AS 2)
ao — OPERATOR-POSITION AUXILIARY SWITCHES (DEVICES AS 3 & AS 4)
AS 1, AS 2 — AUXILIARY SWITCHES (OPTION C9)
AS 3, AS 4 — AUXILIARY SWITCHES (OPTION C10)

TA-1, TB-1, TG-1, TD-1
TA-2, TB-2, TG-2

LOCATION OF ELECTRICAL DEVICES L.H. SIDE SHOWN, TYP. FOR R.H. SIDE

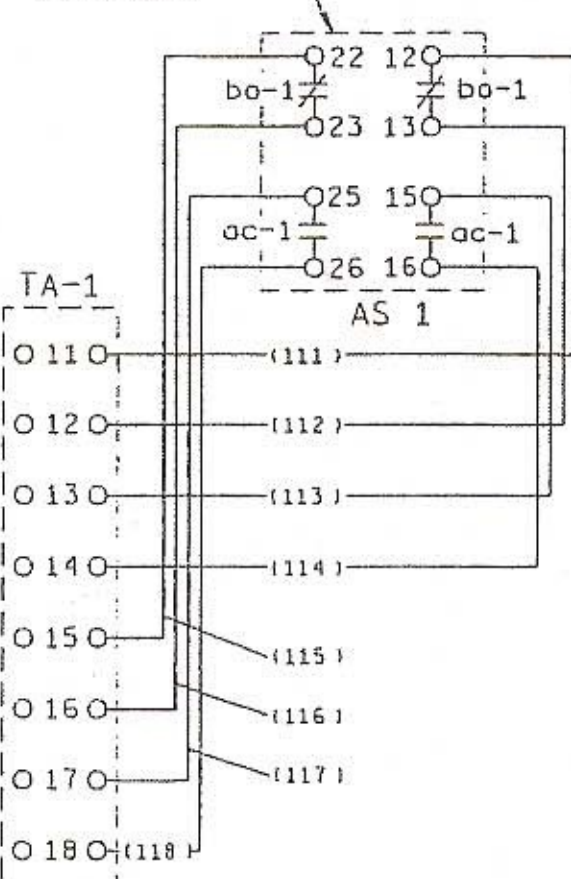


LOCATED ON KEY 69-3 INTERLOCK
29-1 LOCATED ON DECOUPLING ASSEMBLY



REFER TO THE S&C INSTRUCTION SHEET ON OPERATION AND ADJUSTMENT OF S&C PAD-MOUNTED GEAR SOURCE-TRANSFER PMH MODELS

OPTION "C9" (SWITCH)



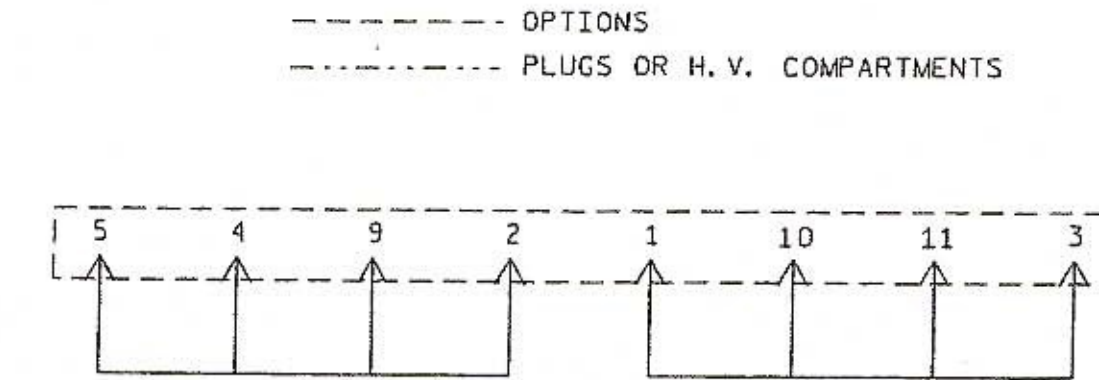
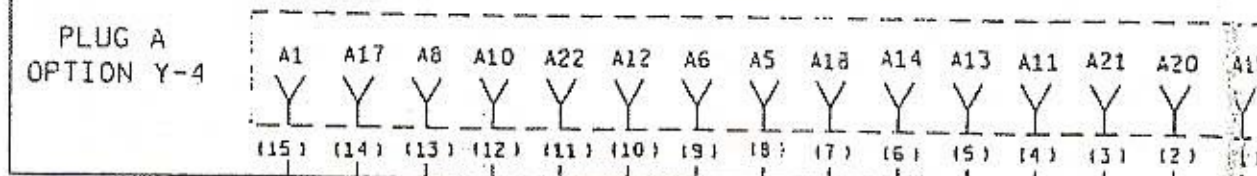
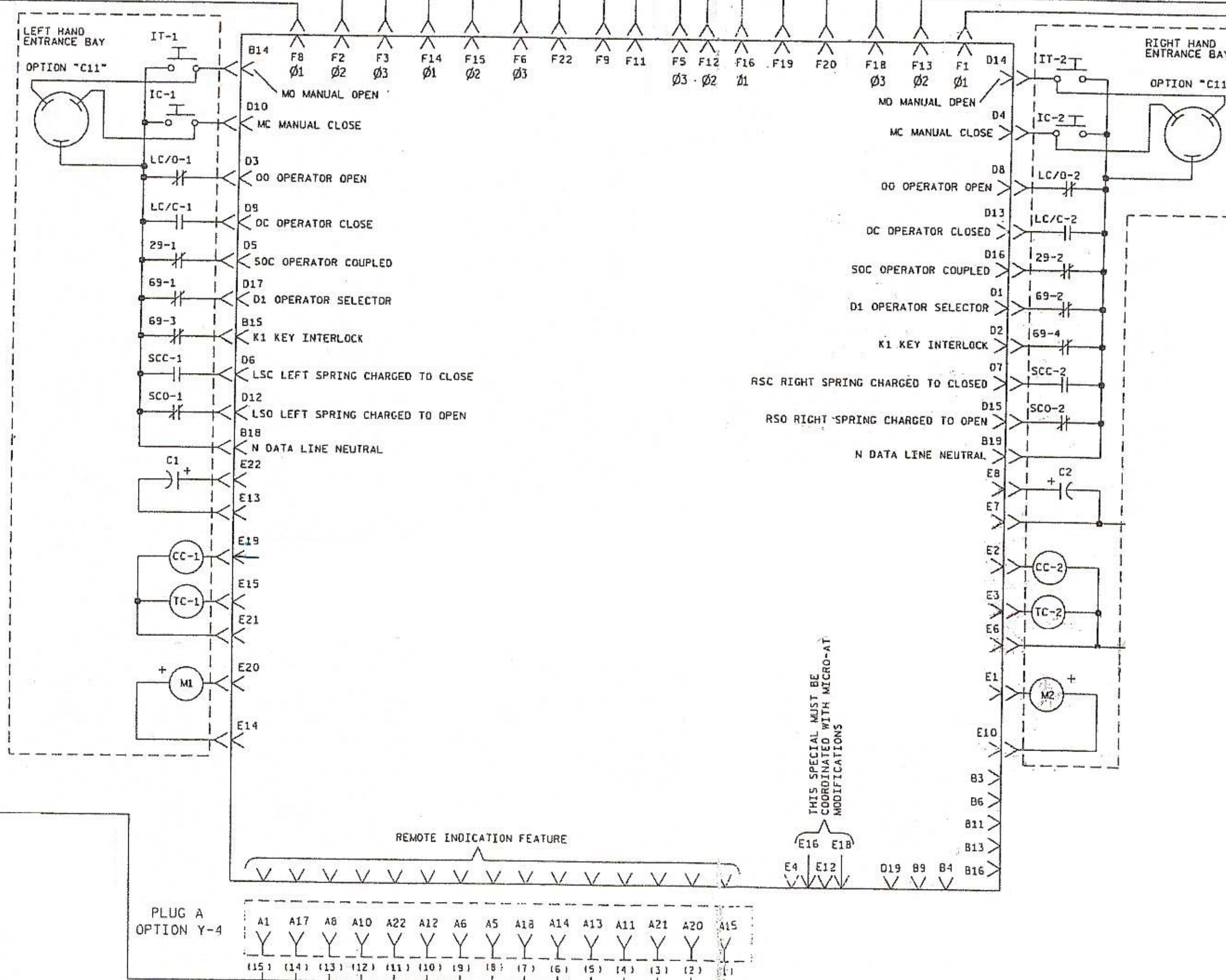
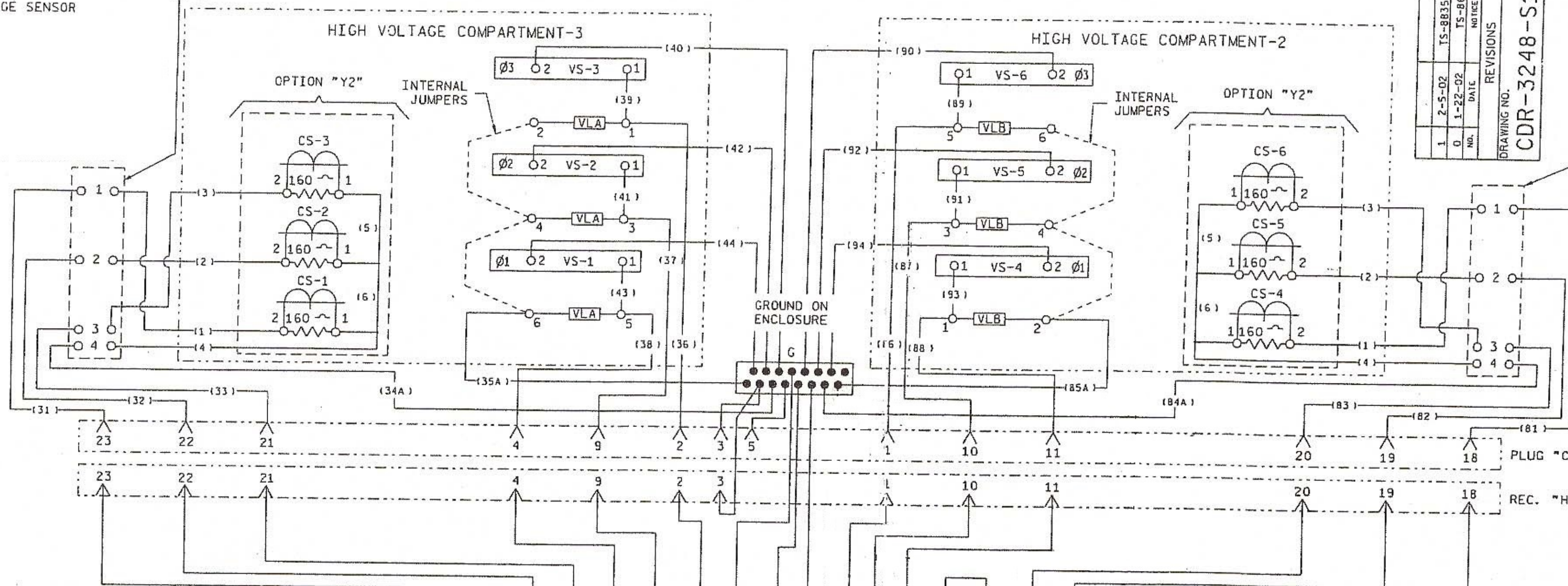
POSITION INDICATOR

UNLESS OTHERWISE SPECIFIED:
DECIMAL DIMS TO BE .1
FRACTIONAL DIMS TO BE .01
ANGLES TO BE .01
WHEN CHECKED, BREAK ALL CORNERS
WHEN CHECKED, REMOVE ALL SURFS

NOTES:

- CAUTION HIGH-VOLTAGE ac DIELECTRIC TESTS ARE NOT NORMALLY REQUIRED ON THIS EQUIPMENT. THE FOLLOWING SPECIAL PRECAUTIONARY MEASURES MUST BE TAKEN TO PREVENT DAMAGE TO S&C VOLTAGE SENSORS AND TO THE MICRO-AT SOURCE-TRANSFER CONTROL IF SUCH TESTS ARE TO BE PERFORMED:
 - REMOVE THE INPUT PLUG C FROM THE INPUT RECEPTACLE, PLUG H, AND TRANSFER PLUG C TO THE SHORTING RECEPTACLE
 - AFTER THE DIELECTRIC TESTING IS COMPLETED, RECONNECT INPUT PLUG C TO THE INPUT RECEPTACLE, PLUG H
- THE ABOVE PRECAUTIONS DO NOT APPLY TO HIGH-VOLTAGE DC DIELECTRIC TESTS.
- DIAGRAM REFLECTS BOTH MINI-RUPTER SWITCHES OPEN AND BOTH STORED ENERGY OPERATORS CHARGED AND COUPLED.

TERMINAL BLOCK TG-1

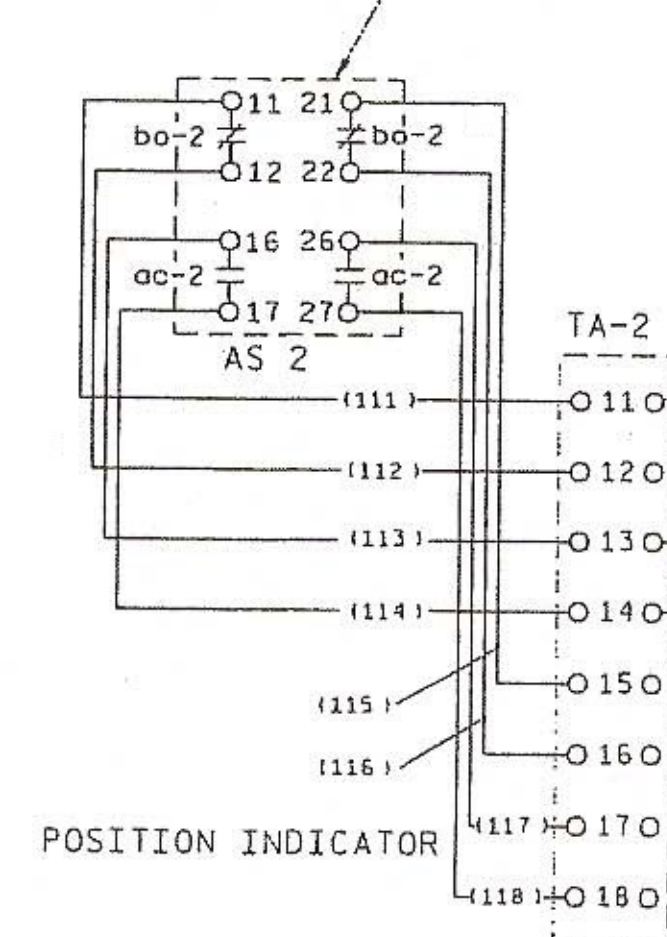


SHORTING RECEPTACLE (SEE NOTES 1 & 2)

CONTACT STATE-POSITION DIAGRAM		
OPERATOR STATUS		
SWITCH	TERMINALS	OPEN CLOSING CLOSED OPENING CHARGING OPEN
LC/O	1 - 2	C
LC/C	1 - 2	C
SCC	1 - 5	C
SCO	1 - 5	C
ao	ALL	C
bo	ALL	C

SWITCH STATUS		
		OPEN CLOSING CLOSED OPENING OPEN
ao	ALL	C
bo	ALL	C

OPTION "C9" (SWITCH)



POSITION INDICATOR

Revised 3/22/2016 Removal of all aftermarket components. Switch made fully Automatic 9/2015 by S&C.
Jalberg Sabino Electric

DRAWING NO. CDR-3248-S128		MATERIAL: S&C SPEC. NO. 15-8835 MCM 15-8871		FINISH: S&C SPEC. NO. 15-8871		SCALE: N/A		S&C ELECTRIC COMPANY GENERAL OFFICES - CHICAGO	
MOUNT: POW OP		PRODUCT: PMH		DATE: 1-21-02		DESCRIPTION: PAD-MOUNTED GEAR SOURCE-TRANSFER PMH MODELS SYSTEM DIAGRAM		DRAWING NO. MST	
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