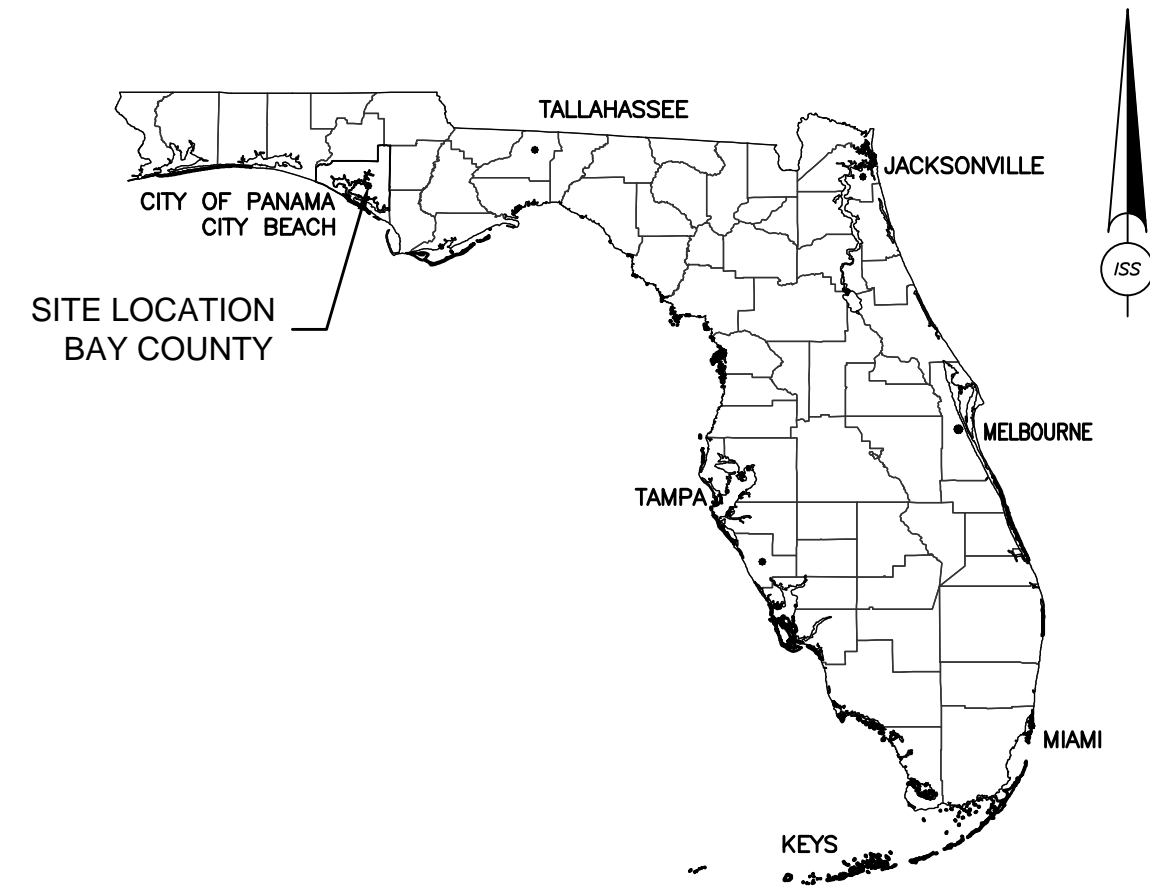


# DESIGN DOCUMENTS PACKAGE

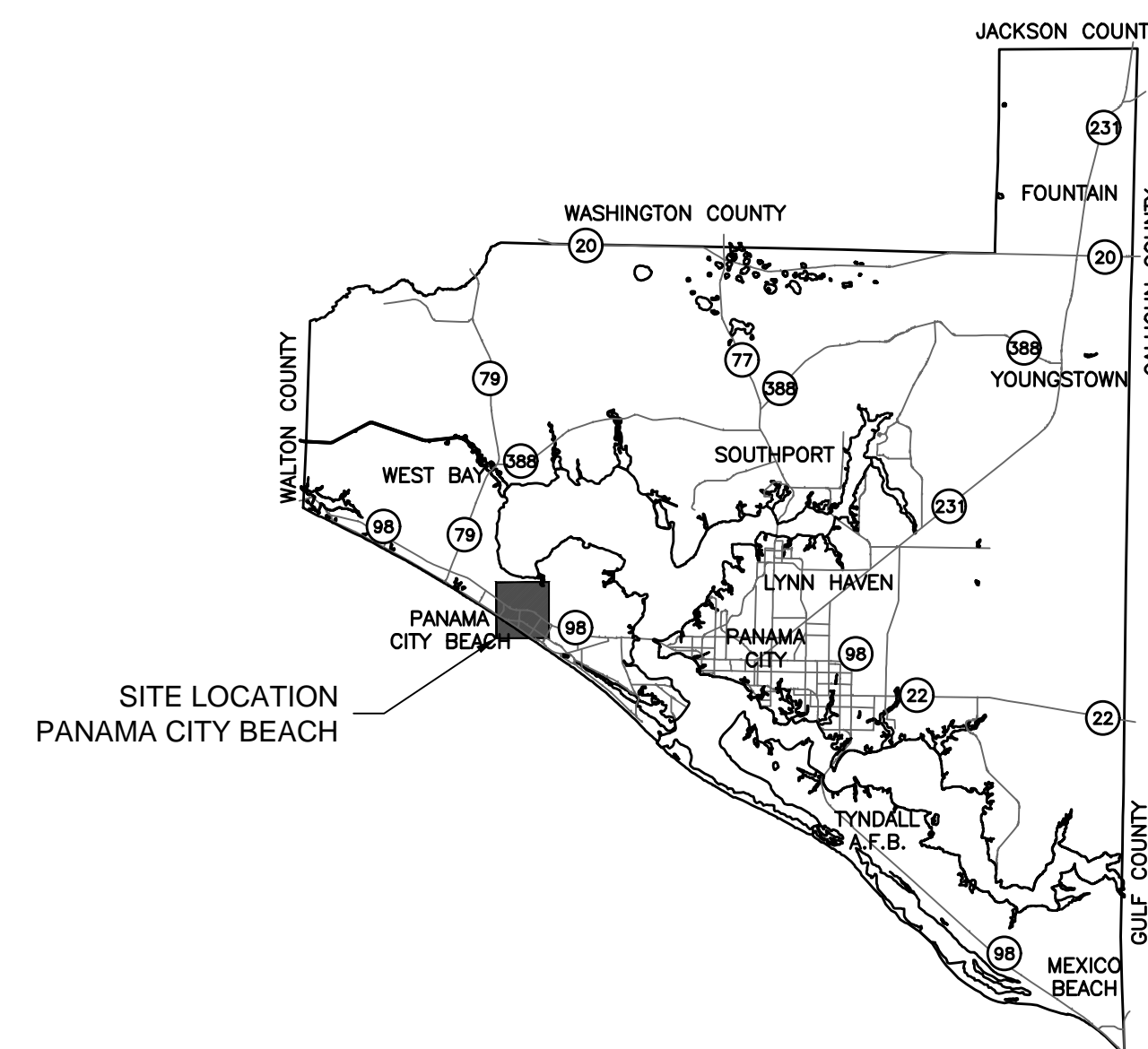
## WRF#1 GENERATOR & ATS CONTROLS IMPROVEMENTS

### FOR THE

# CITY OF PANAMA CITY BEACH



KEY MAP  
NOT TO SCALE



VICINITY MAP  
NOT TO SCALE



LOCATION MAP  
SCALE: 1" = 250'



MAYOR	MARK SHELDON
WARD 1 COUNCILMAN	PAUL CASTO
WARD 2 COUNCILMAN	PHIL CHESTER
WARD 3 COUNCILMAN AND VICE MAYOR	GEOFF MCCONNELL
WARD 4 COUNCILMAN	MICHAEL JARMAN
CITY MANAGER	DREW WHITMAN
CITY CLERK	LYNNE FASONE



120 Richard Jackson Blvd., Suite 200C  
Panama City Beach, FL 32407  
Phone: (850) 366-9942  
EB# 29992

**RELEASED FOR BID**  
**NOT FOR CONSTRUCTION**



# KOHLER POWER SYSTEMS

## SGP-1350 PANAMA CITY BEACH AWT EXPANSION

SERIAL NUMBER

ES-90645  
ES-90646  
ES-90647

ITEM

SWITCHGEAR LINEUP  
CONTROLS LINEUP  
STATION BATTERY - 24VDC

PROJECT TITLE SHEETS	REV. D	SHEET NO.
PROJECT SUMMARY		T1
LEGEND		T2

GENERAL INFORMATION SHEETS	REV. C	SHEET NO.
STRUCTURE/BREAKER DATA		G1

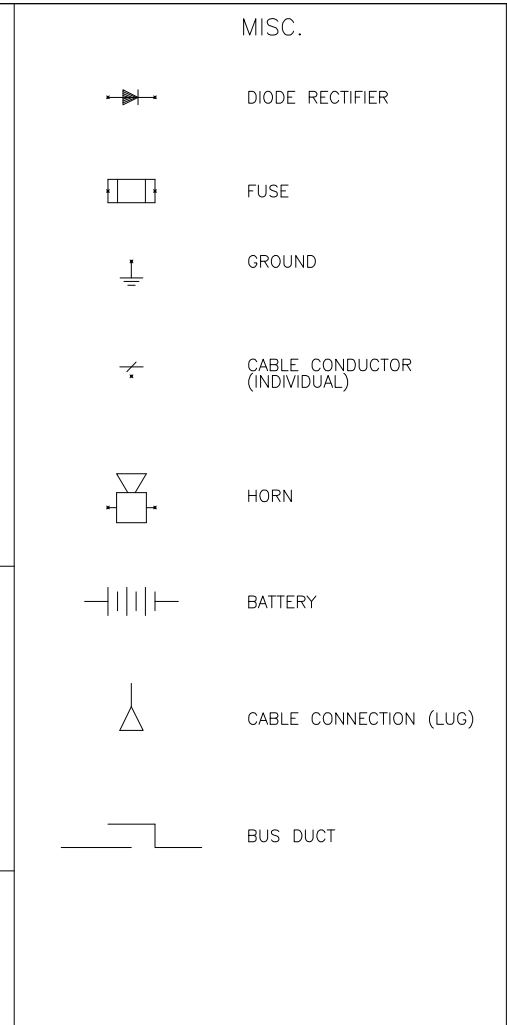
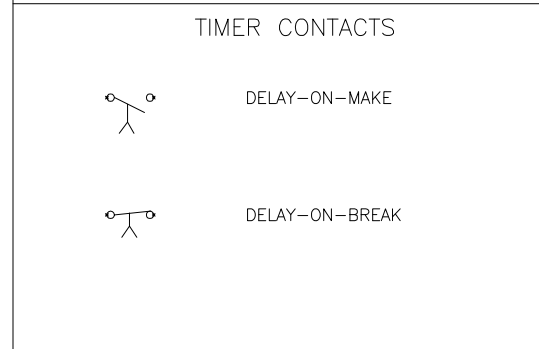
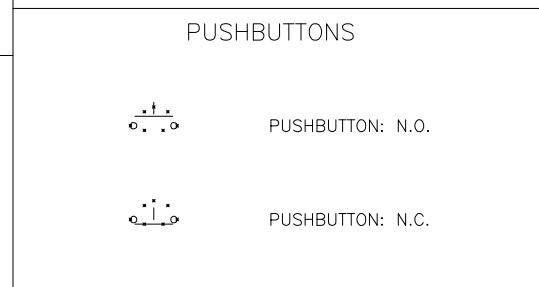
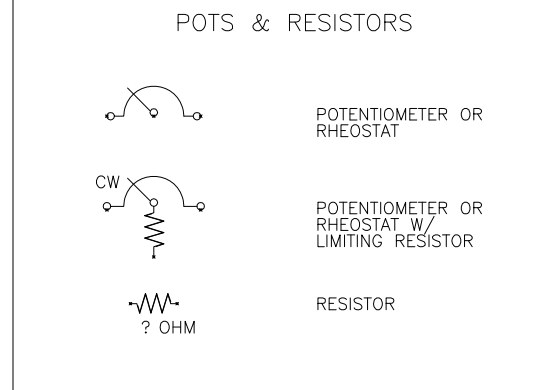
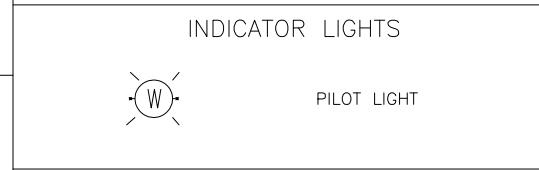
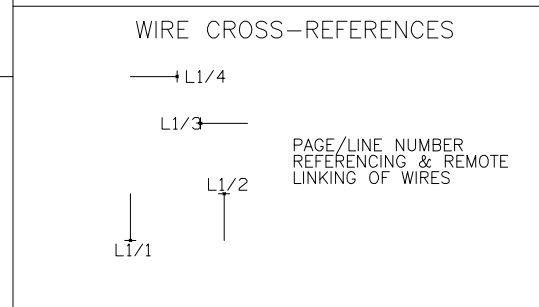
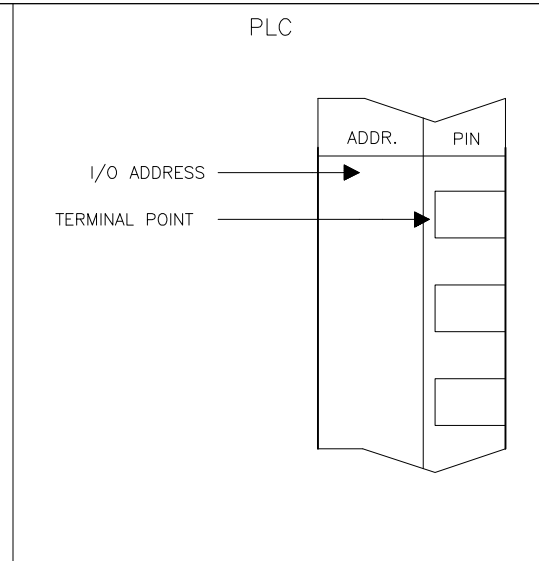
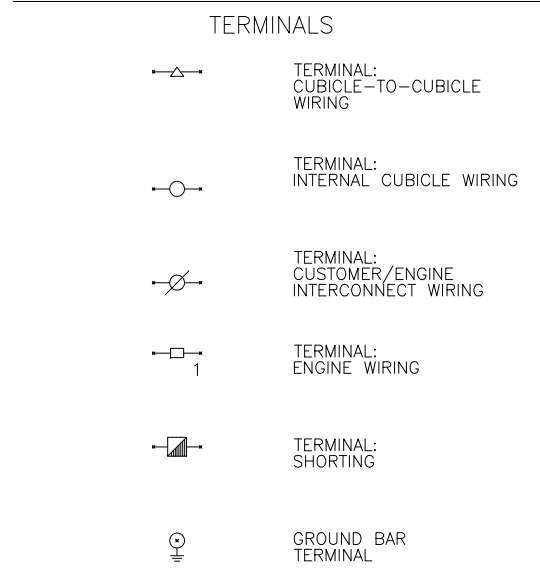
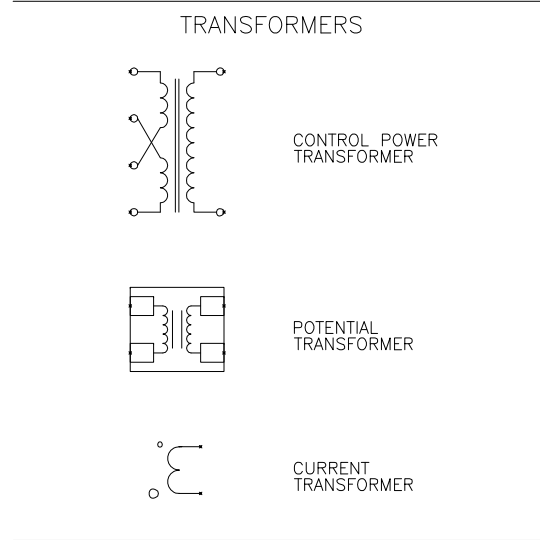
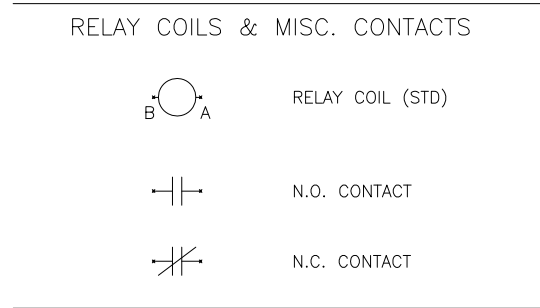
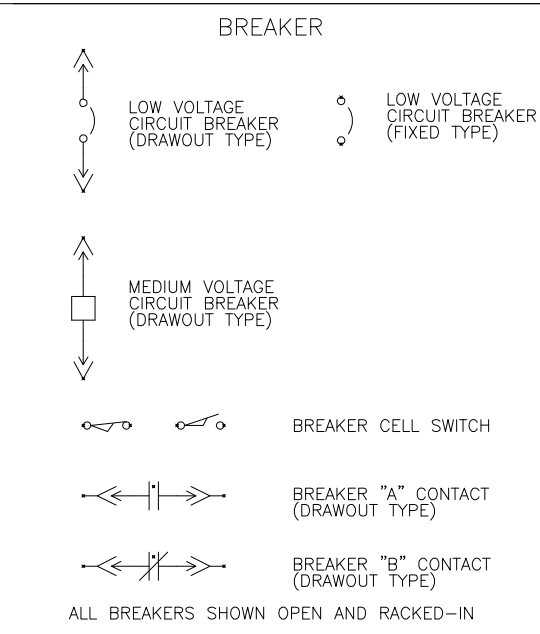
MECHANICAL SHEETS	REV. C	SHEET NO.
DIMENSION PRINT, OUTLINE DRAWING (SWGR)		M1-M4
DIMENSION PRINT, CONTROL DOOR (SWGR)		M5

ELECTRICAL SHEETS	REV. D	SHEET NO.
SINGLE LINE ELECTRICAL		E1-4
A.C. SCHEMATIC		E5-15
PANEL LAYOUT AND WIRING DIAGRAMS		E5-10
D.C. SCHEMATIC POWER DISTRIBUTION		E16
D.C. SCHEMATIC GENERATOR 1		E17-20
C.B. SCHEMATIC GENERATOR 1		E21
D.C. SCHEMATIC GENERATOR 2		E22-25
C.B. SCHEMATIC GENERATOR 2		E26
D.C. SCHEMATIC GENERATOR 3		E27-30
C.B. SCHEMATIC GENERATOR 3		E31
D.C. SCHEMATIC GENERATOR 4		E32-35
C.B. SCHEMATIC GENERATOR 4		E36
D.C./C.B. SCHEMATIC UTILITY 1/FEEDERS		E37-44
D.C./C.B. SCHEMATIC UTILITY 2/FEEDERS		E45-52
D.C./C.B. SCHEMATIC TIE		E53-56
D.C. SCHEMATIC SYSTEM CONTROL		E57-60
<del>SCHEMATIC COMMUNICATIONS</del>		<del>E61-64</del>
WIRING DIAGRAM, SWITCHGEAR		E65-136
CUBICLE INTERCONNECT, SWITCHGEAR		E137-139
WIRING DIAGRAM, SYSTEM CONTROL		E140-156
DIAGRAM, BLOCK INTERCONNECT		E157-159
WIRING DIAGRAM, CUSTOMER INTERCONNECT		E160-179

See new SCADA  
Architecture  
drawing

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
REV	DATE	REVISION	BY	ES NO.	ITEM	APPROVALS		DATE	
-	1-5-10	NEW DRAWING-FOR APPROVAL [89056]	RTR	-	-	DRAWN		RTR 1-5-10	
A	1-27-10	FOR APPROVAL [89286]	PJL			CHECKED		RMB 1-5-10	
B	5-14-10	FOR MANUFACTURING [89803]	RTR			APPROVED		RMB 1-5-10	
C	7-21-10	AS BUILT [90178]	RTR						
D	3-29-11	REVISED PER FIELD MODIFICATIONS [91400]	CLM						
SECTION/FUNCTION 1				SCALE		CAD NO.		SHEET T1 OF 2	
				PLOTTED		DWG. NO.		SGP-1350 D	

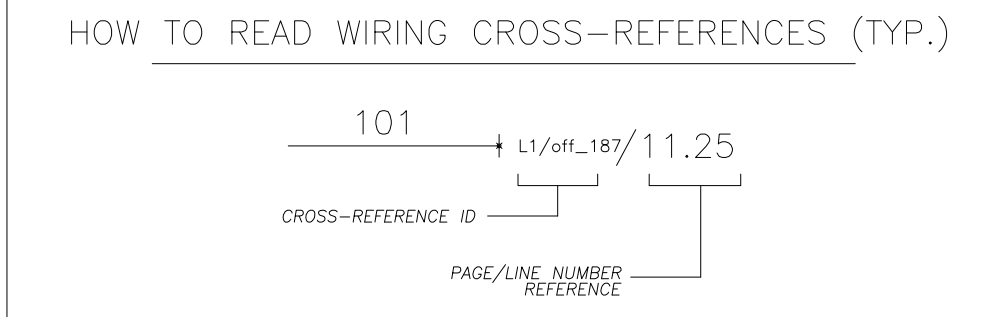
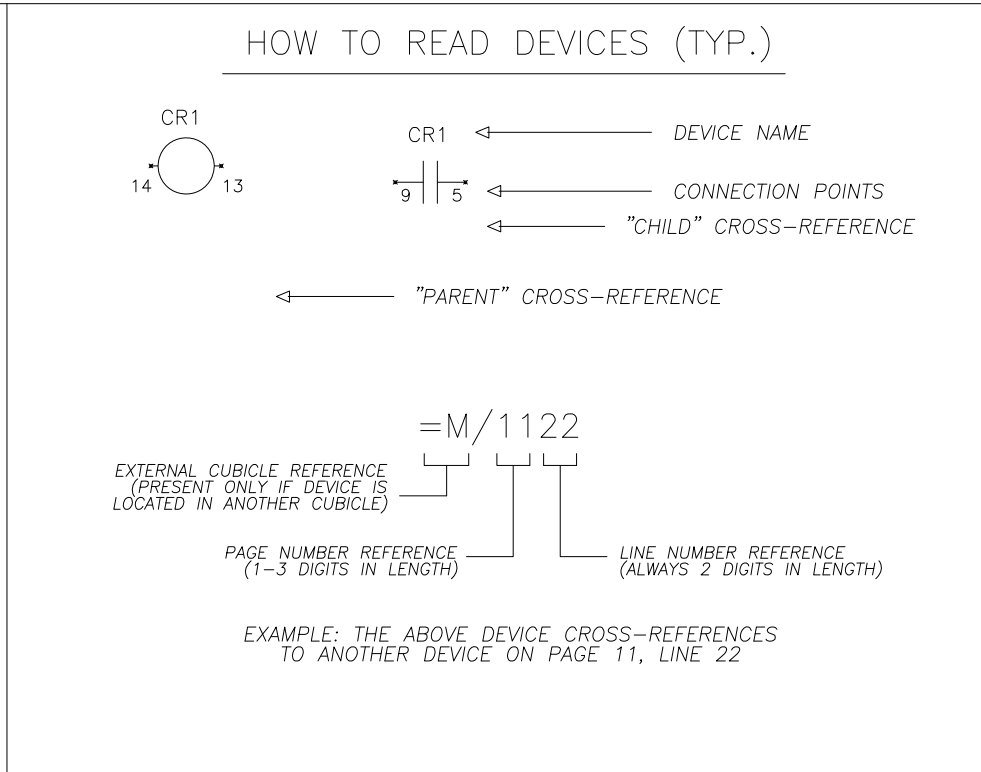




### COMMON DEVICE ABBREVIATIONS

25	SYNCHRONIZER
25C	SYNCH CHECK RELAY
27	UNDERVOLTAGE RELAY
32	REVERSE POWER RELAY
40	LOSS OF EXCITATION RELAY
46	NEGATIVE SEQUENCE - CURRENT
47	NEGATIVE SEQUENCE - VOLTAGE
50	INSTANTANEOUS OVERCURRENT RELAY
51	TIMED OVERCURRENT RELAY
52G(x)	GENERATOR CIRCUIT BREAKER
52F(x)	FEEDER CIRCUIT BREAKER
52U(x)	UTILITY CIRCUIT BREAKER
52T(x)	TIE CIRCUIT BREAKER
59	OVERVOLTAGE RELAY
810	OVERFREQUENCY RELAY
81U	UNDERFREQUENCY RELAY
86	LOCK-OUT RELAY
87	DIFFERENTIAL RELAY
A	AMMETER
AF	AMP FRAME
AL	AMBER LIGHT
AP	AMP PLUG
AS	AMMETER SWITCH
CBS	CIRCUIT BREAKER CONTROL SWITCH
CR	CIRCUIT BREAKER CLOSE RELAY
CT(x)	CURRENT TRANSFORMER
DB(x)	DIODE BLOCK
DCC(x)	DC-DC CONVERTER
ECS	ENGINE CONTROL SWITCH
ERL	ENGINE RUNNING LIGHT
ERR	ENGINE RUNNING RELAY
ERST	ENGINE RESET RELAY
ESD	ENGINE SHUT DOWN RELAY
ESR	ENGINE START RELAY
ESTP	EMERGENCY STOP
F	FREQUENCY METER
FPR	FEEDER PROTECTION RELAY
G(x)	GENERATOR
FU(x)	FUSE BLOCK
GFA	GROUND FAULT ALARM RELAY
GL	GREEN (BREAKER OPEN) LIGHT
GND	GROUND
GPR	GENERATOR PROTECTION RELAY
HMI	HUMAN-MACHINE INTERFACE (TOUCHSCREEN)
HR	HORN RELAY
HSR	HORN SILENCE RELAY
HS	HORN SILENCE PUSH BUTTON
IPR	INTERTIE PROTECTION RELAY
LC	LOAD CONTROLLER
LCB	GENERATOR LINE CIRCUIT BREAKER
LS(x)	LOAD SHED RELAY
MOC	MOTOR-OPERATED CONTACT
PIP	PERIPHERAL INTERFACE PORT
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	POWER MONITOR
PT(x)	POTENTIAL TRANSFORMER
PTX	POWER TRANSDUCER
RL	RED (BREAKER CLOSED) LIGHT
SER	SYNCH ENABLE RELAY
SIG_ISO	SIGNAL ISOLATOR
SPM	SYNCHRONIZER
STB	SHORTING TERMINAL BLOCK
TOC	TRUCK-OPERATED CONTACT
TR	CIRCUIT BREAKER TRIP RELAY
TS	TEST SWITCH
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UPR	UTILITY PROTECTION RELAY
V	VOLTMETER
VLR	VOLTAGE LOWER RELAY
VRR	VOLTAGE RAISE RELAY
VR	VOLTAGE REGULATOR
VS	VOLTMETER SWITCH
W	WATTMETER
WL	WHITE LIGHT

(x) = NUMERICAL DESIGNATION



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP	
-	1-5-10	NEW DRAWING-FOR APPROVAL [89056]	RTR	ES NO.:	ITEM
A	1-27-10	FOR APPROVAL [89286]	PJL	-	-
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR 1-5-10
D	3-29-11	REVISED PER FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB 1-5-10
				APPROVED	RMB 1-5-10

TITLE		LEGEND PAGE	
SCALE	CAD NO.	SHEET	T2 OF 2
PLOTTED	DWG. NO.	SGP-1350 D	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

BREAKER DATA

KINNEY ELEC. DATED  
QUOTE NUMBER: OCTOBER 28, 2009

CELL NO.	BREAKER NAME	BREAKER SERVICE	BREAKER TYPE	BRKR. MTG.	SERVICE ENTR.	INTER-RUPTING RATING	BREAKER RATING	FRAME SIZE	SENSOR PLUG RATING	TRIP SETTING	TRIP UNIT TYPE	TRIP UNIT PROTECT.	ACCESSORIES FOR REMOTE OPERATION			CRADLE POSITION SWITCH			AUXILIARY SWITCH	O.T.S. BELL ALARM	PADLOCK. PUSH BUTTON COVER
													SPRING CHARG. MOTOR	SHUNT CLOSE	SHUNT TRIP	CONNECTED	TEST	DISCONN.			
1A	52F1	MCC-3A	SBS-E12	D.O.	NO	-	100%	1200	1200	1000	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
1B	52F2	SPARE	SBS-E12	D.O.	NO	-	100%	1200	1200	1200	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
1C	52F3	MCC-2A	SBS-E12	D.O.	NO	-	100%	1200	1200	1000	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
1D	52F4	MCC-4	SBS-E12	D.O.	NO	-	100%	1200	1200	1200	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
2A	52F5	MCC-6	SBS-E08	D.O.	NO	-	100%	800	800	800	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
2B	52F6	MCC-6A	SBS-E08	D.O.	NO	-	100%	800	800	800	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
2C	52G1	GEN.-1	SBS-E16	D.O.	NO	-	100%	1600	1600	1600	DIGITRIP 1150	LSI	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
10A	52F15	MCC-7	SBS-E12	D.O.	NO	-	100%	1200	1200	1200	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
10B	52F16	MCC-7B	SBS-E12	D.O.	NO	-	100%	1200	1200	1000	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
10C	52G4	GEN.-4	SBS-E16	D.O.	NO	-	100%	1600	1600	1600	DIGITRIP 1150	LSI	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
11A	52F17	MCC-3B	SBS-E12	D.O.	NO	-	100%	1200	1200	1000	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
11B	52F18	SPARE	SBS-E12	D.O.	NO	-	100%	1200	1200	1200	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
11C	52F19	MCC-2B	SBS-E12	D.O.	NO	-	100%	1200	1200	1000	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H
11D	52F20	SPARE	SBS-E12	D.O.	NO	-	100%	1200	1200	1200	DIGITRIP 1150	LSIG	24 VDC	24 VDC	24 VDC	YES	YES	YES	4A/4B	YES	H

SERVICE VOLTAGE: 480Y/277:  3Ø3W:   
208Y/120:  3Ø4W:   
600Y/346:   
480 Δ:

FREQUENCY: 50 Hz:  60 Hz:

ENCLOSURE (STD.) NEMA TYPE 1:   
TYPE: NEMA 3R (NON WALK-IN):   
POWER ZONE CENTER (WALK-IN):

UNIT DEPTH: 36.00:   
48.00:   
54.00:   
60.00:   
73.13:

CROSS BUS RATING: 1200 AMPS:   
1600 AMPS:   
2000 AMPS:   
2500 AMPS:   
3000 AMPS:   
4000 AMPS:   
5000 AMPS:   
6000 AMPS:

SHORT CIRCUIT 18 KA:  42 KA:   
INTEGRATED 22 KA:  50 KA:   
EQUIPMENT 25 KA:  65 KA:   
RATING (@ 480V): 30 KA:  100 KA:   
(RMS SYM.) 35 KA:  140 KA:

BUS RATING: (STD.) UL TEMP. RISE:   
OPT. UL 1000 AMPS PER SQ. IN.

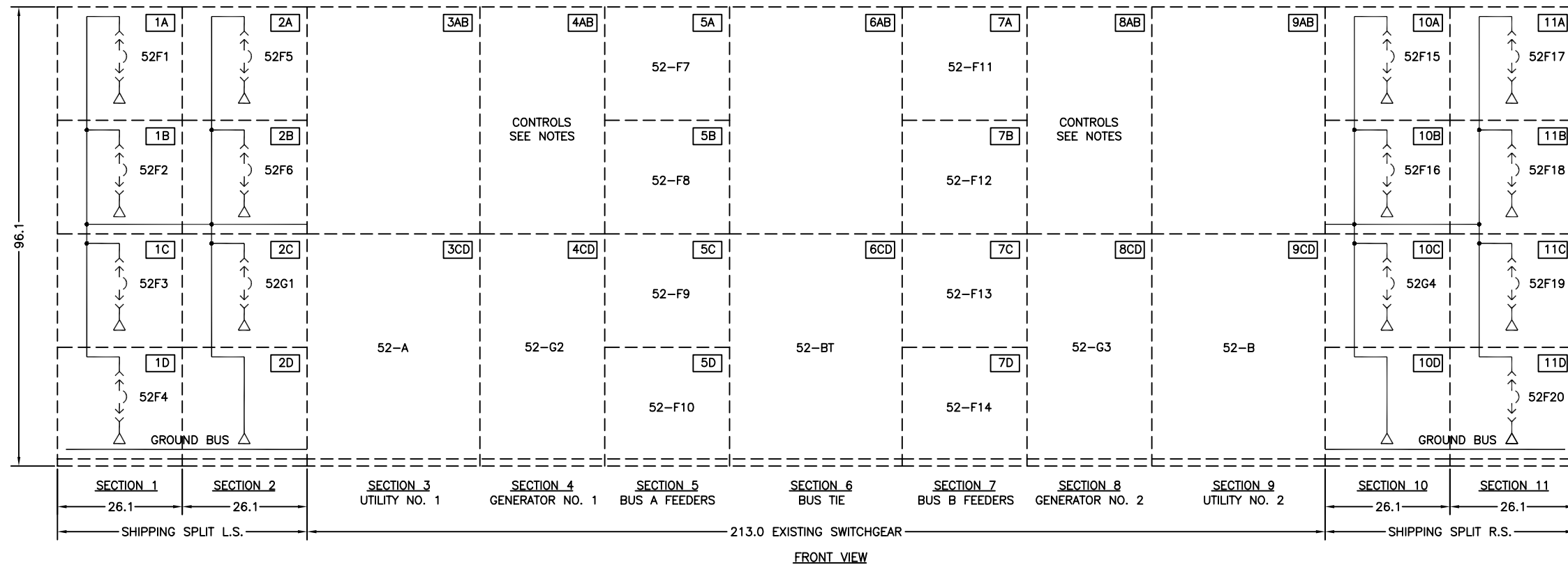
POWER CABLE ACCESSIBILITY REQUIRED: FRONT:   
REAR:   
RIGHT SIDE:   
LEFT SIDE:

CABLE ENTRY: TOP:   
BOTTOM:

STRIP HEATERS: NO:   
(STD. ON NEMA 3R) YES:

BREAKER LIFTING DEVICE: NONE:   
FLOOR CRANE:   
OVERHEAD LIFTER (NEMA 1 ONLY):

NOTES:  
1. BLANK DOOR TO REPLACE EXISTING ON CELLS 2AB AND 6AB TO BE PROVIDED.

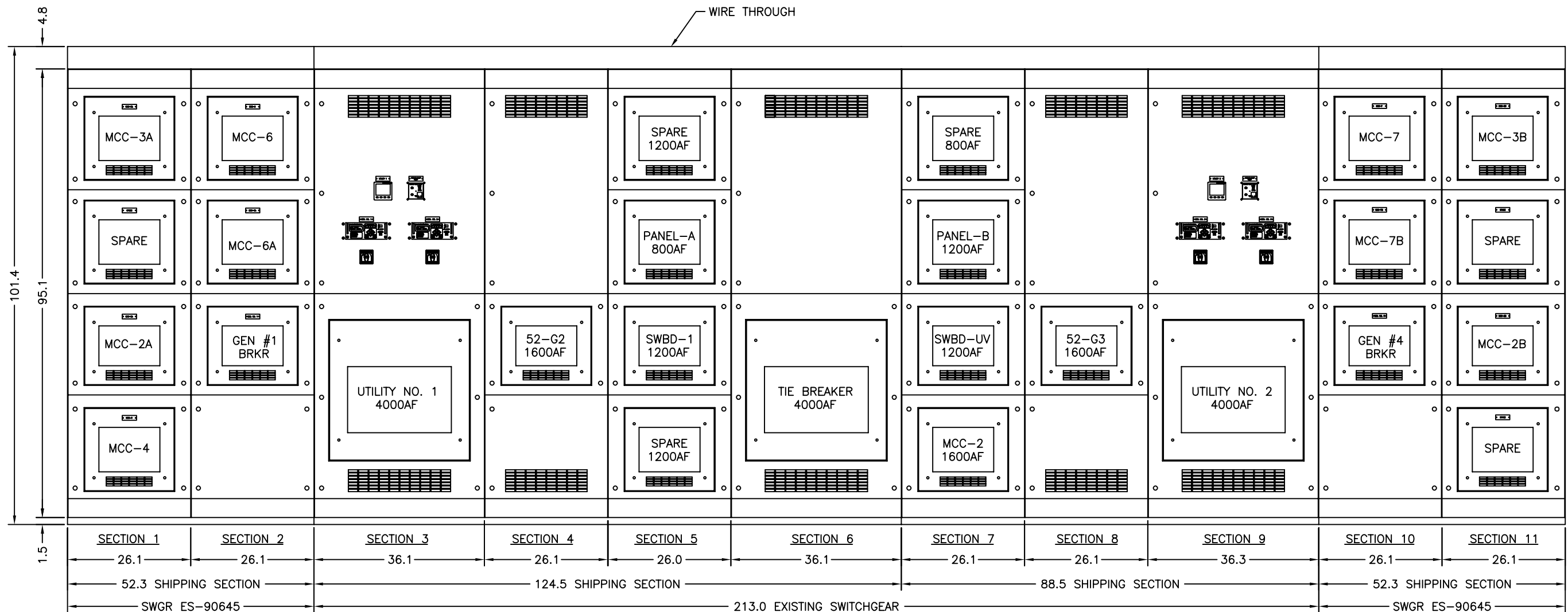


MICROLOGIC ELECTRONIC TRIP SYSTEMS	PROTECTION SETTINGS
MICROLOGIC BASIC TRIP UNIT - 3.0 BASIC PROTECTION (LI) - 5.0 SELECTIVE PROTECTION (LSI) MICROLOGIC A: TRIP UNIT WITH AMMETER - 3.0A BASIC PROTECTION (LI) - 5.0A SELECTIVE PROTECTION (LSI) - 6.0A SELECTIVE PROTECTION WITH GROUND-FAULT PROTECTION (LSIG) MICROLOGIC P: TRIP UNIT WITH POWER METERING - 5.0P SELECTIVE PROTECTION (LSI) - 6.0P SELECTIVE PROTECTION WITH GROUND-FAULT PROTECTION (LSIG) MICROLOGIC H: TRIP UNIT WITH HARMONIC METERING - 5.0H SELECTIVE PROTECTION (LSI) - 6.0H SELECTIVE PROTECTION WITH GROUND-FAULT PROTECTION (LSIG)	L - LONG TIME S - SHORT TIME I - INSTANTANEOUS G - GROUND FAULT A - GROUND FAULT ALARM

STRUCTURE TO BE ORDERED AS ES-42079 SECTION/FUNCTION

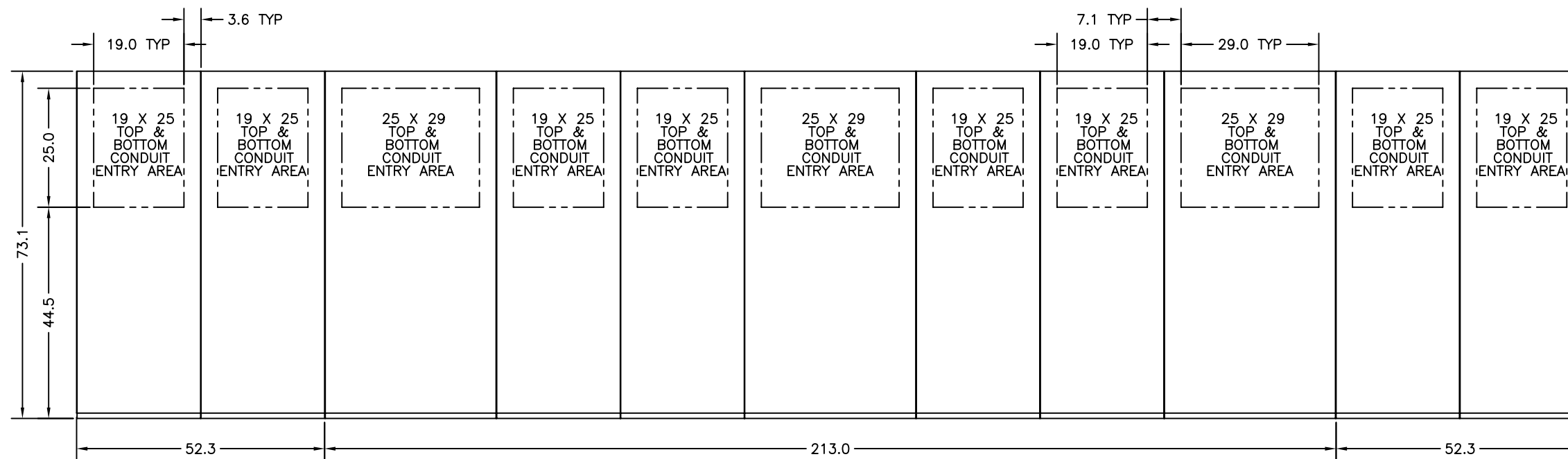
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	DATE	
-	1-4-10	NEW DRAWING - FOR SUBMITTAL [89056]	RAC	ES-90645	SWGR.		
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC				
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC				
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC				
			CHECKED	DD		1-4-10	
			APPROVED	RMB		1-4-10	

KOHLER CO.			
POWER SYSTEMS, KOHLER, WI 53044 U.S.A.			
THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
TITLE: DIMENSION PRINT		STRUCTURE/BREAKER DATA	
SCALE: NONE	DWG. NO. SGP-1350	SHEET: G10F 1	



FRONT VIEW

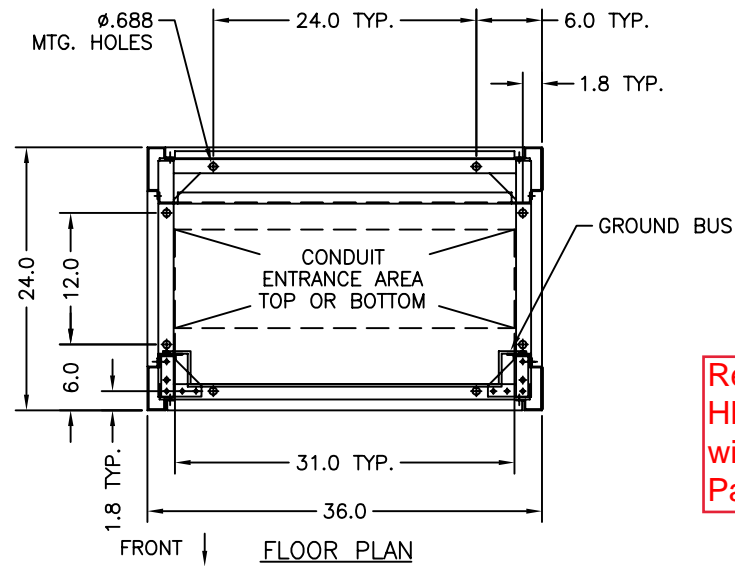
CAE GENERATED DRAWING				PROJECT NO.: SGP1350		<b>KOHLER CO.</b>	
REV	DATE	REVISION	BY	PROJECT NAME:		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-4-10	NEW DRAWING - FOR SUBMITTAL. [89056]	RAC	PANAMA CITY BEACH AWT EXP.			
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC	ES-90645	SWGR.	TITLE <b>DIMENSION PRINT OUTLINE DRAWING</b>	
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC	APPROVALS	DATE		
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC	DRAWN	RAC	1-4-10	SCALE .098 PLOTTED
				CHECKED	DDD	1-4-10	
				APPROVED	RMB	1-4-10	DWG. NO. SGP-1350
SECTION/FUNCTION							SHEET M1 OF 5



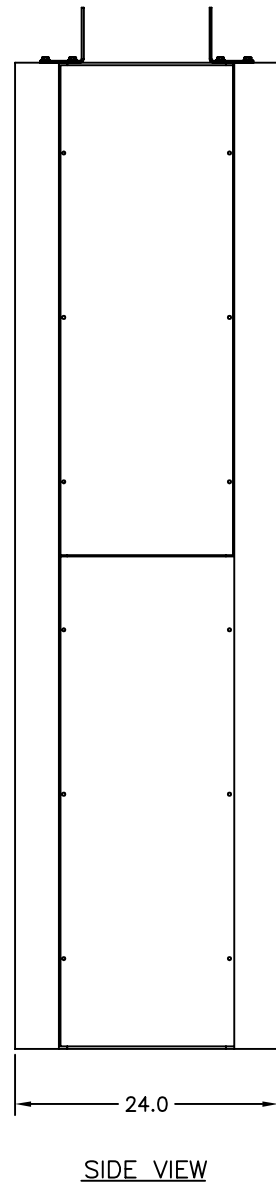
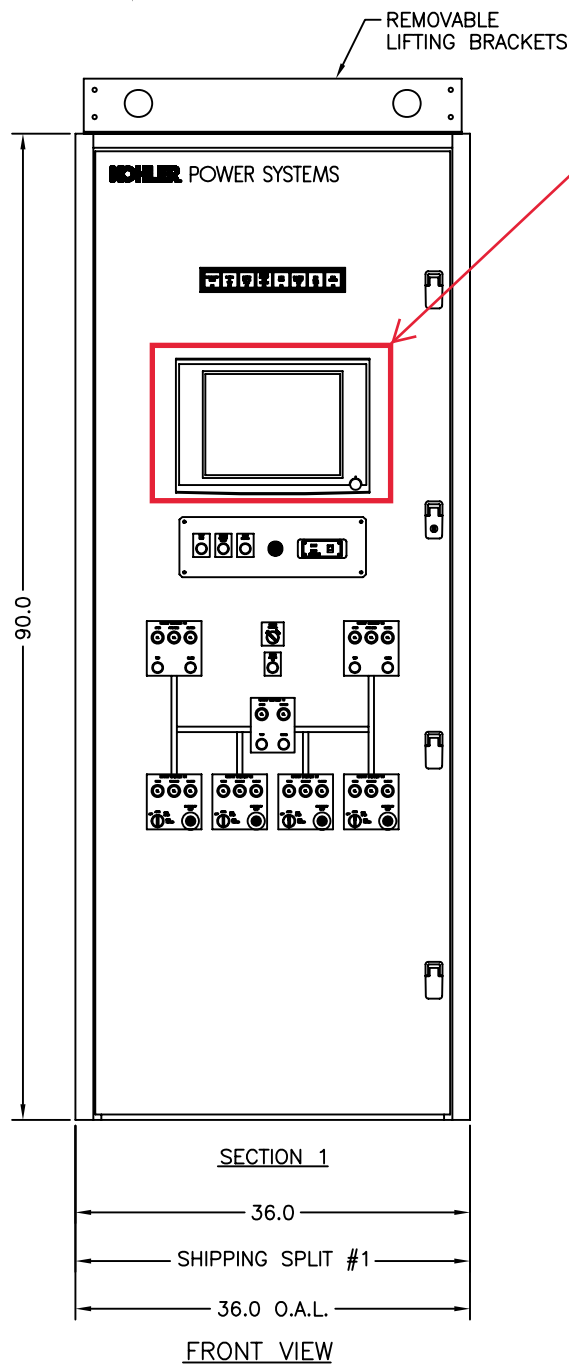
FRONT ↓ PLAN VIEW

- NOTES:  
 1. STUB CONDUIT 2 INCHES MAXIMUM IN POWER CABLE AREA.

CAE GENERATED DRAWING				PROJECT NO.: SGP1350	
REV	DATE	REVISION	BY	PROJECT NAME:	<b>KOHLER CO.</b> POWER SYSTEMS, KOHLER, WI 53044 U.S.A. <small>THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>
-	1-4-09	NEW DRAWING - FOR SUBMITTAL [89056]	RAC	PANAMA CITY BEACH AWT EXP.	
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC	ES-90646	ITEM: SWGR
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC	APPROVALS	DATE
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC	DRAWN	RAC 1-4-09
				CHECKED	DDD 1-4-09
				APPROVED	RMB 1-4-09
SECTION/FUNCTION				SCALE	5/64
				DWG. NO.	SGP-1350
				SHEET	M2 OF 5
				PLOTTED	D



Remove existing HMI and replace with Rockwell Panelview Plus



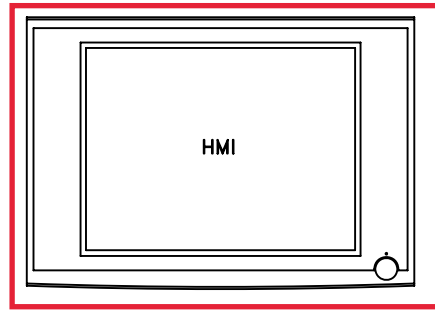
UL LISTING: UL891  
 COLOR: ANSI 61 GRAY  
 NOTES:  
 1. NEMA 1 CONSTRUCTION, FREE STANDING-FLOOR SUPPORTED.  
 2. DESIGNED FOR FRONT ACCESS ONLY.  
 APPROX. WEIGHTS:  
 SHIPPING SPLIT #1: 3000 LBS.

CAE GENERATED DRAWING				PROJECT NO.: SGP1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME:	ES NO.:	ITEM:	TITLE
-	1-11-10	NEW DRAWING - FOR SUBMITTAL [89056]	RAC	PANAMA CITY BEACH AWT EXP.	ES-90646	CTRL.	DIMENSION PRINT
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC			DATE	OUTLINE DRAWING
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC				SCALE 1/8
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC				DWG. NO. SGP-1350
CHECKED DDD				DATE 1-12-10		SHEET M3 OF 5	
APPROVED RMB				DATE 1-11-12		PLOTTED	

SYSTEM CONTROL DOOR

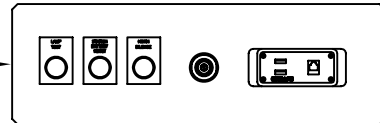
**KOHLER** POWER SYSTEMS

SEE DETAIL A

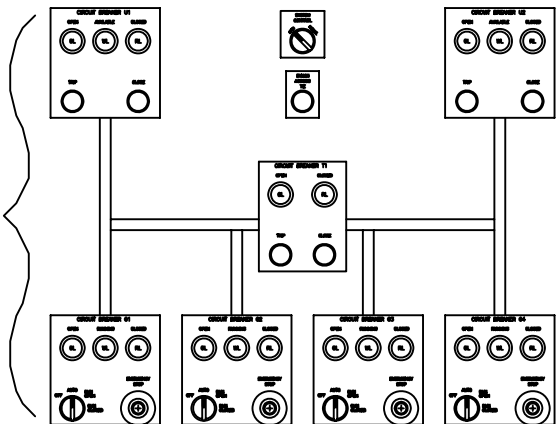


Remove existing HMI and replace with Rockwell PanelView Plus

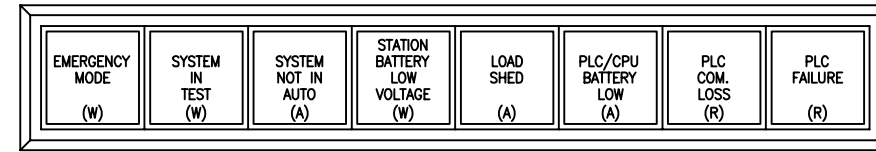
SEE DETAIL B



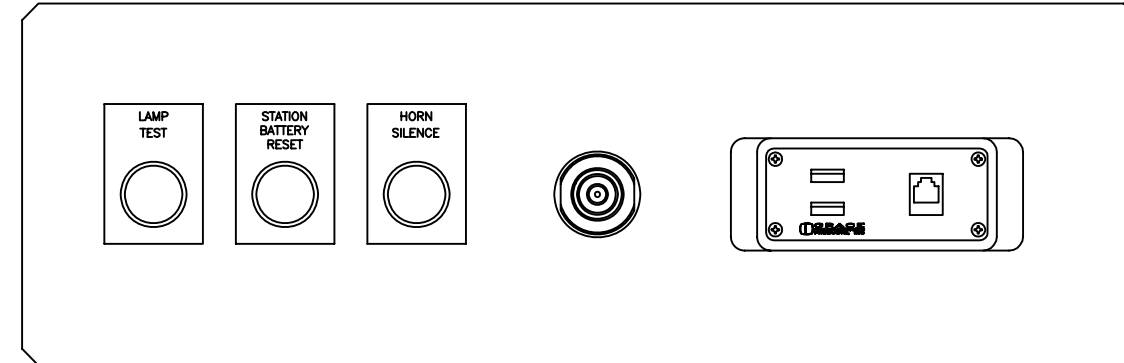
SEE DETAIL C



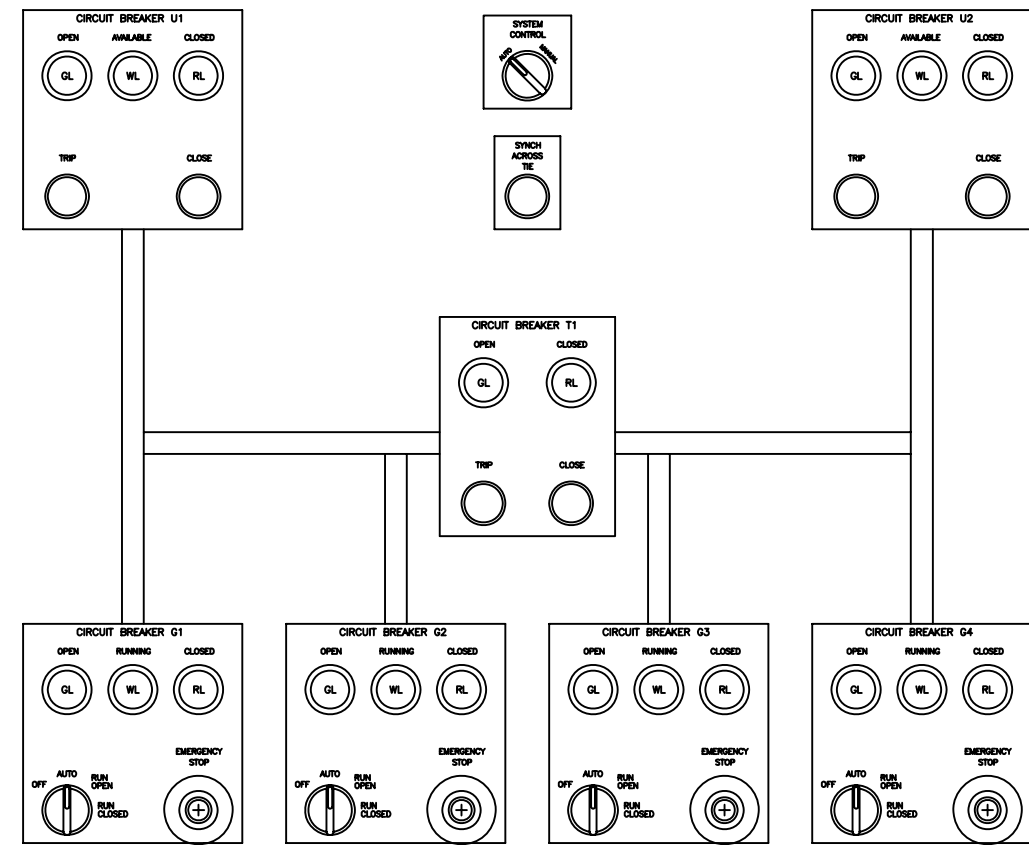
FACE IS WHITE WHEN LAMPS ARE OFF  
ILLUMINATION COLORS: (A) = AMBER (G) = GREEN (R) = RED (W) = WHITE



DETAIL A



DETAIL B



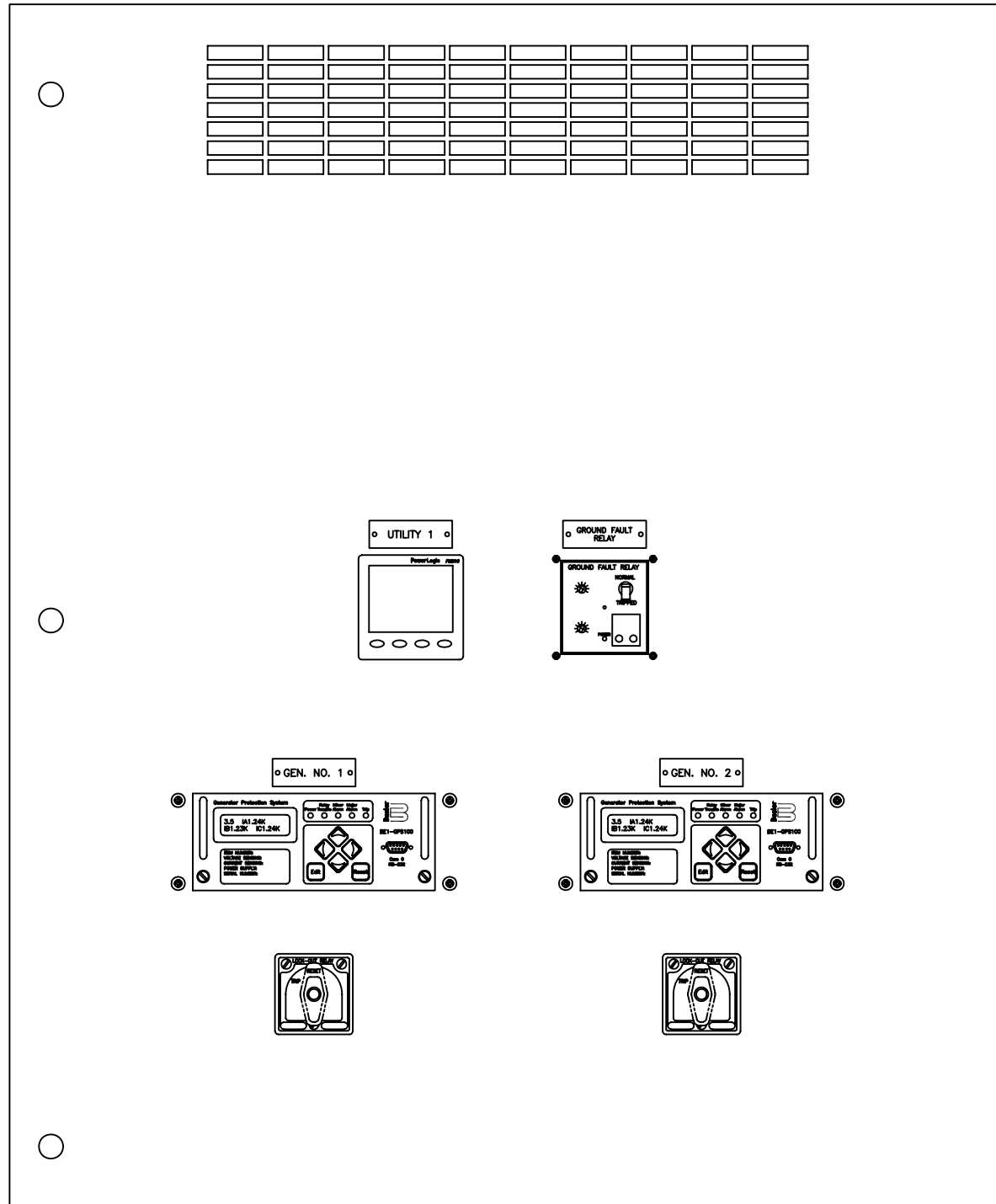
DETAIL C

**FOR APPROVAL**  
NOT FOR CONSTRUCTION

CAE GENERATED DRAWING				PROJECT NO.: SGP1350		<b>KOHLER CO.</b>	
REV	DATE	REVISION	BY	PROJECT NAME:	ES NO.:	ITEM:	POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. TITLE: DIMENSION PRINT SYSTEM CONTROL DOOR SCALE: 1/4 SHEET: M4 OF 5 DWG. NO.: SGP-1350
-	1-11-10	NEW DRAWING - FOR SUBMITTAL [89056]	RAC	PANAMA CITY BEACH AWT EXP.	ES-90646	CTRL.	
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC				
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC				
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC				
SECTION/FUNCTION				CHECKED: DDD	DATE: 1-12-10	APPROVED: RMB	DATE: 1-12-10



TYPICAL GENERATOR DOOR  
(GEN. NO. 1 & 2 SHOWN)



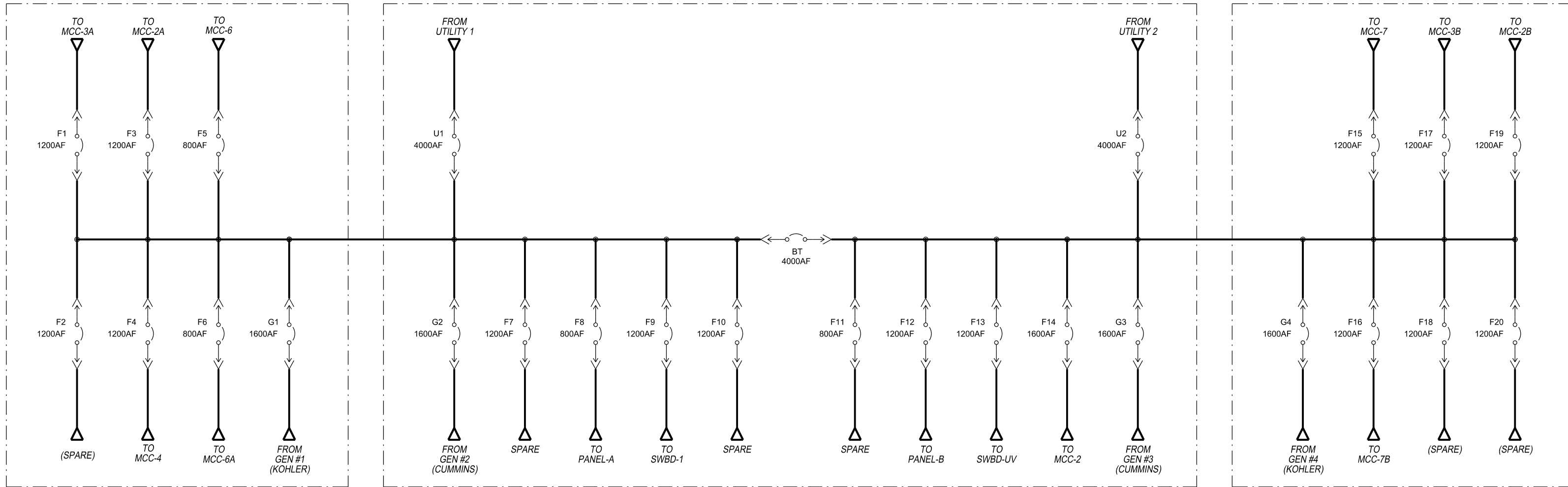
CAE GENERATED DRAWING				PROJECT NO.: SGP1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME:	ES NO.:	ITEM:	TITLE
-	1-11-10	NEW DRAWING - FOR SUBMITTAL [89056]	RAC	PANAMA CITY BEACH AWT EXP.	ES-90645	CTRL.	DIMENSION PRINT GENERATOR DOOR
A	2-11-10	REVISED FOR RE-SUBMITTAL [89286]	RAC			DATE	SCALE 3/8
B	3-29-10	REVISED FOR MANUFACTURING [89486]	RAC	APPROVALS			DWG. NO. SGP-1350
C	7-21-10	REVISED PER AS-BUILT [90178]	RAC	DATE			SHEET M5 OF 5
				CHECKED	DDD	1-12-10	
				APPROVED	RMB	1-12-10	

SECTION/FUNCTION

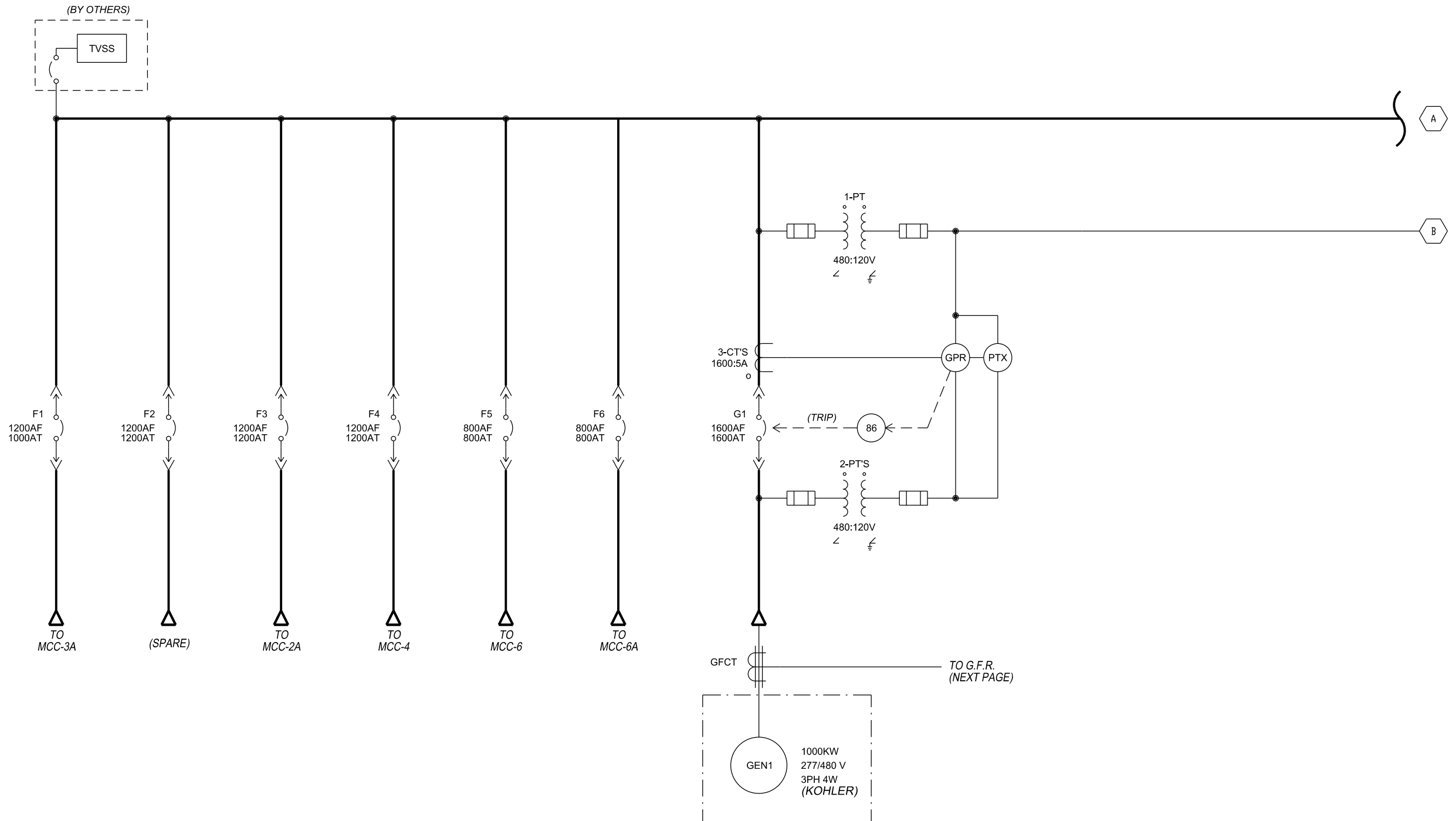
NEW SWITCHGEAR  
(BY KOHLER)

EXISTING SWITCHGEAR  
(BY OTHERS)

NEW SWITCHGEAR  
(BY KOHLER)



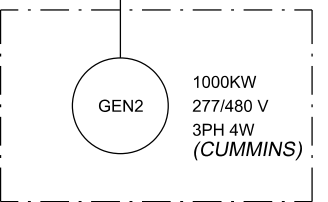
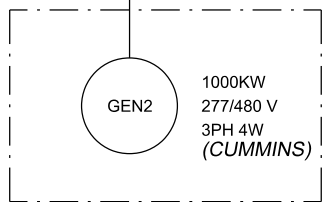
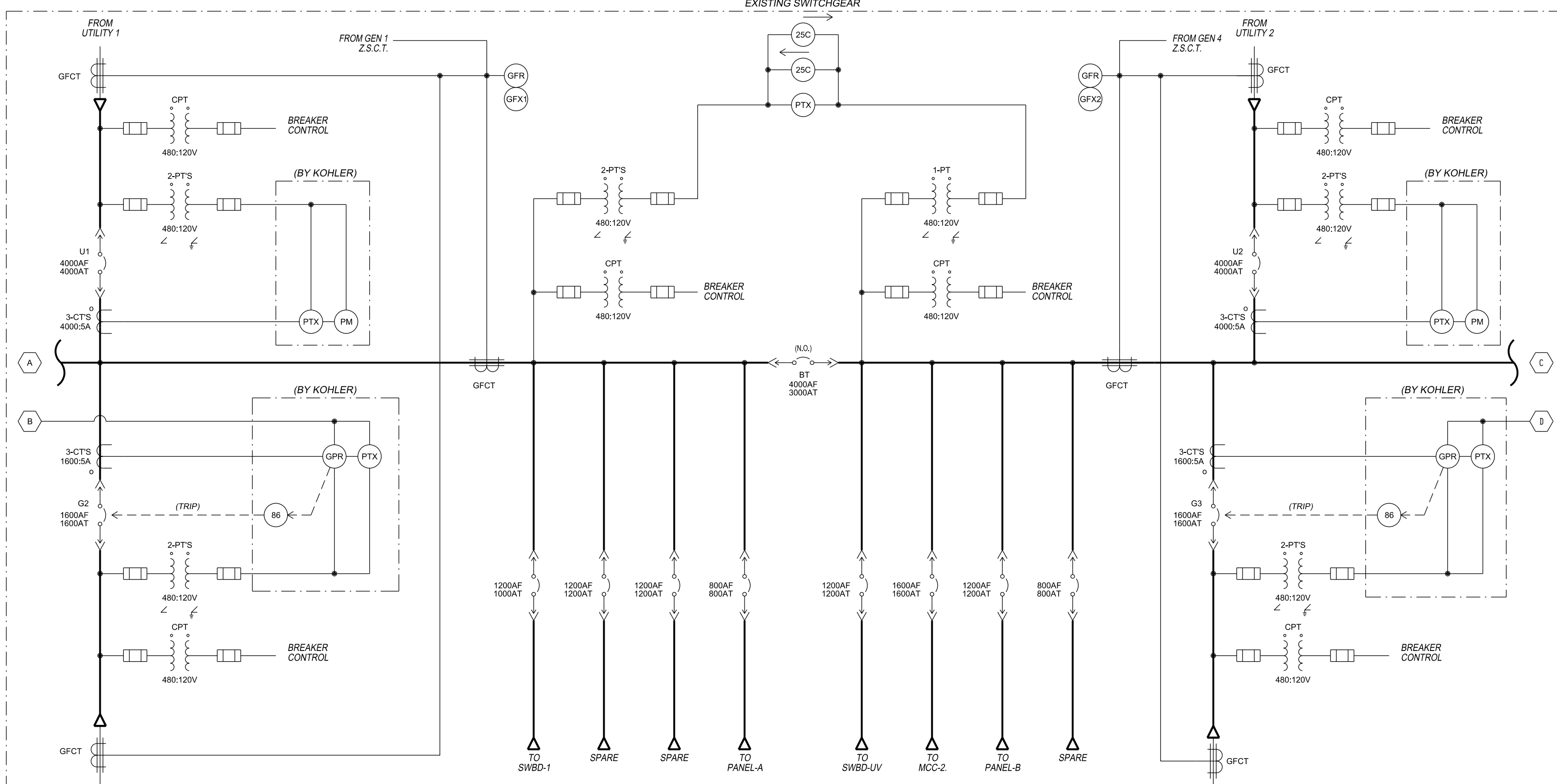
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	DIAGRAM, SINGLE-LINE OVERVIEW			
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.			
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWC NO.			
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	SHEET 1 OF 179			
SECTION/FUNCTION SL			<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>		DWG. NO. SGP-1350		SHEET 1 OF 179		



CAE GENERATED DRAWING			PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.	
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB 1-5-10
				APPROVED	RMB 1-5-10

ES NO.:	ES-90645	ITEM	SWGR
DRAWN	RTR	DATE	1-5-10
CHECKED	RMB	DATE	1-5-10
APPROVED	RMB	DATE	1-5-10

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TITLE <b>DIAGRAM, SINGLE-LINE          NEW SWGR. (BY KOHLER)</b>		
SCALE	CAD NO.	SHEET
		E 2 OF 179
PLOTTED	DWG. NO.	
	SGP-1350	D

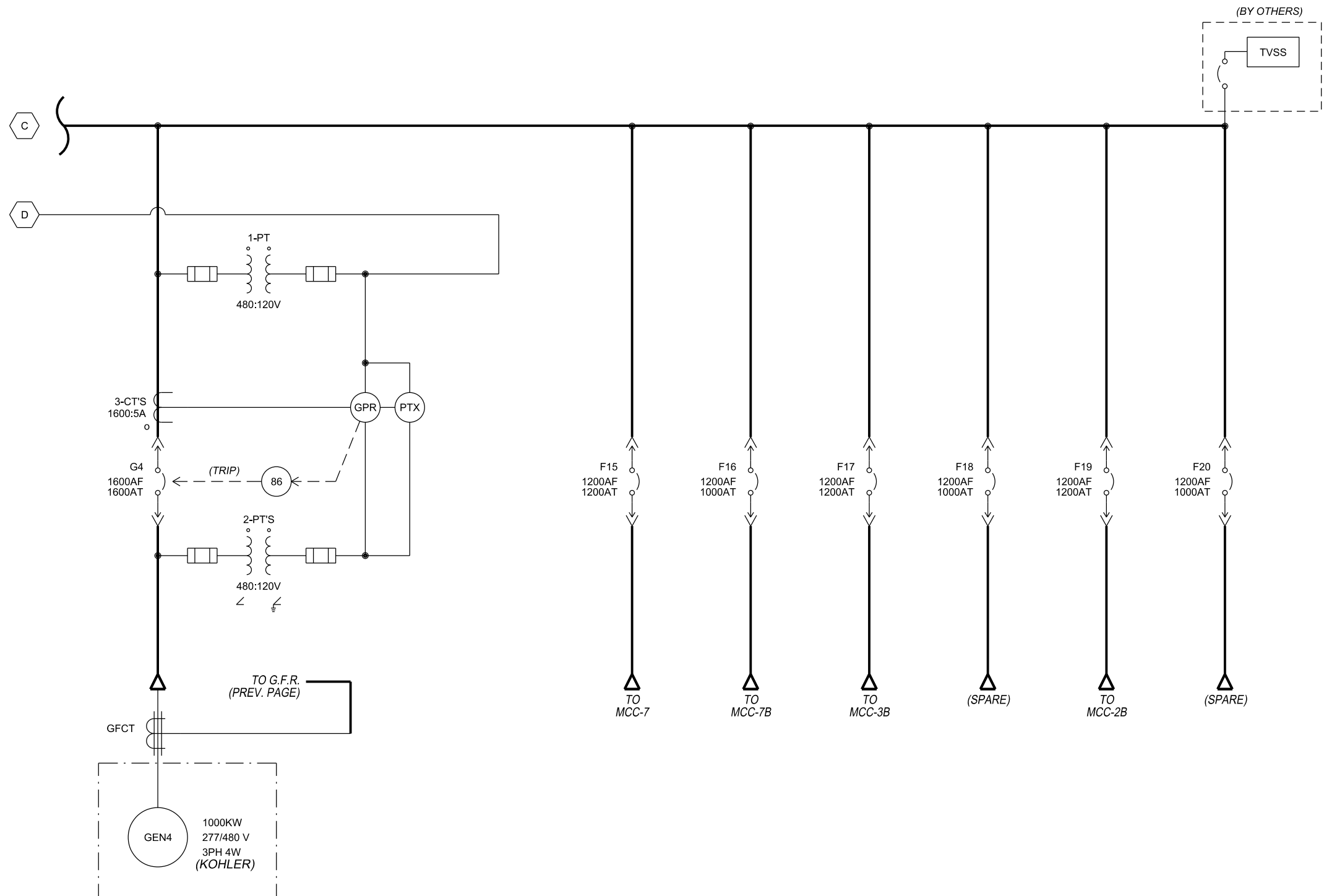


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

TITLE: DIAGRAM, SINGLE-LINE EXISTING SWGR.		SCALE: 1"=10'	CAD NO.:	SHEET: E 3 OF 179
PROJECT NO.: SGP-1350		DWG. NO.:		PRINTED: SGP-1350 D

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

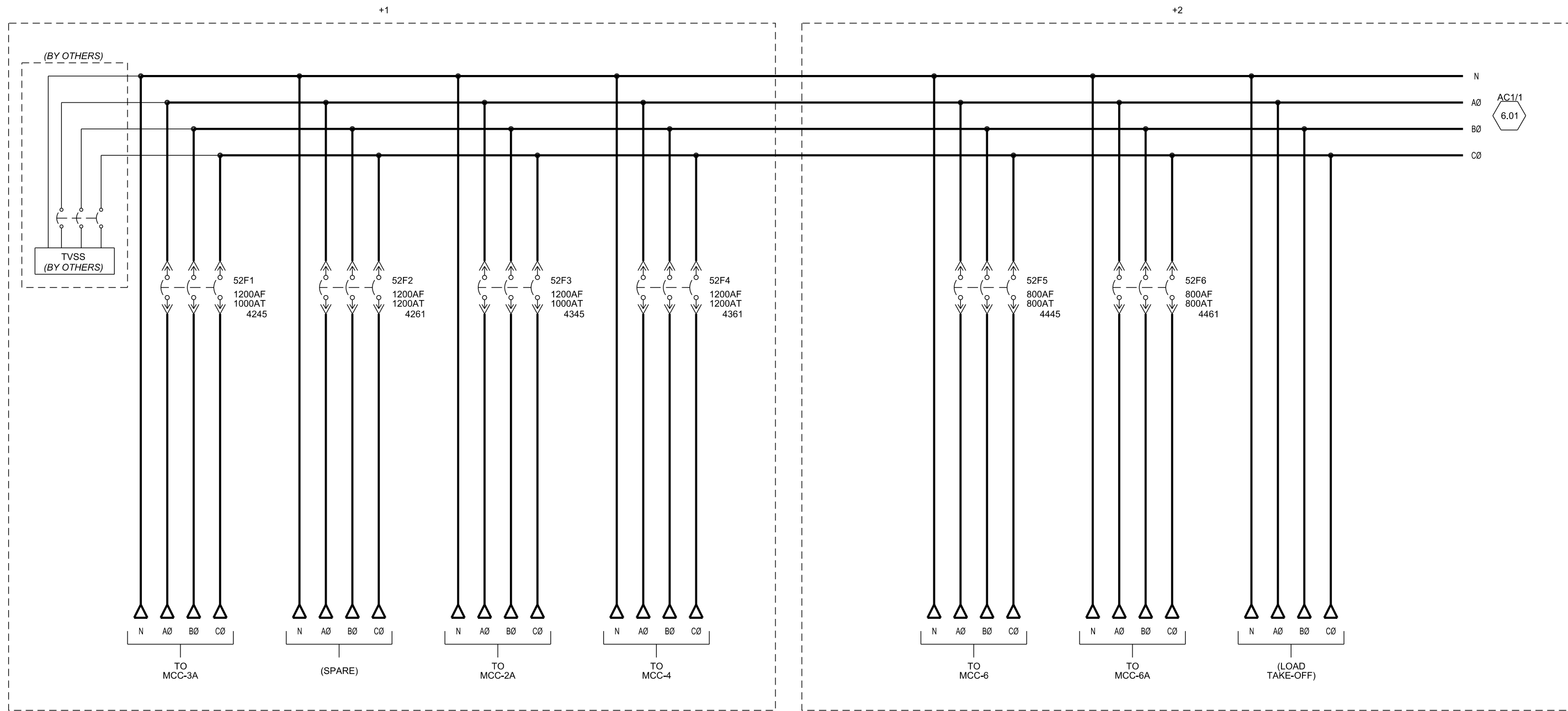
PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.: ES-90645	ITEM: SWGR
DRAWN: RTR	DATE: 1-5-10
CHECKED: RMB	1-5-10
APPROVED: RMB	1-5-10

<b>KOHLER CO</b>	
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TITLE: DIAGRAM, SINGLE-LINE NEW SWGR. (BY KOHLER)	
SCALE:	CAD NO. SHEET E 4 OF 179
PLOTTED:	DWG. NO. SGP-1350   D

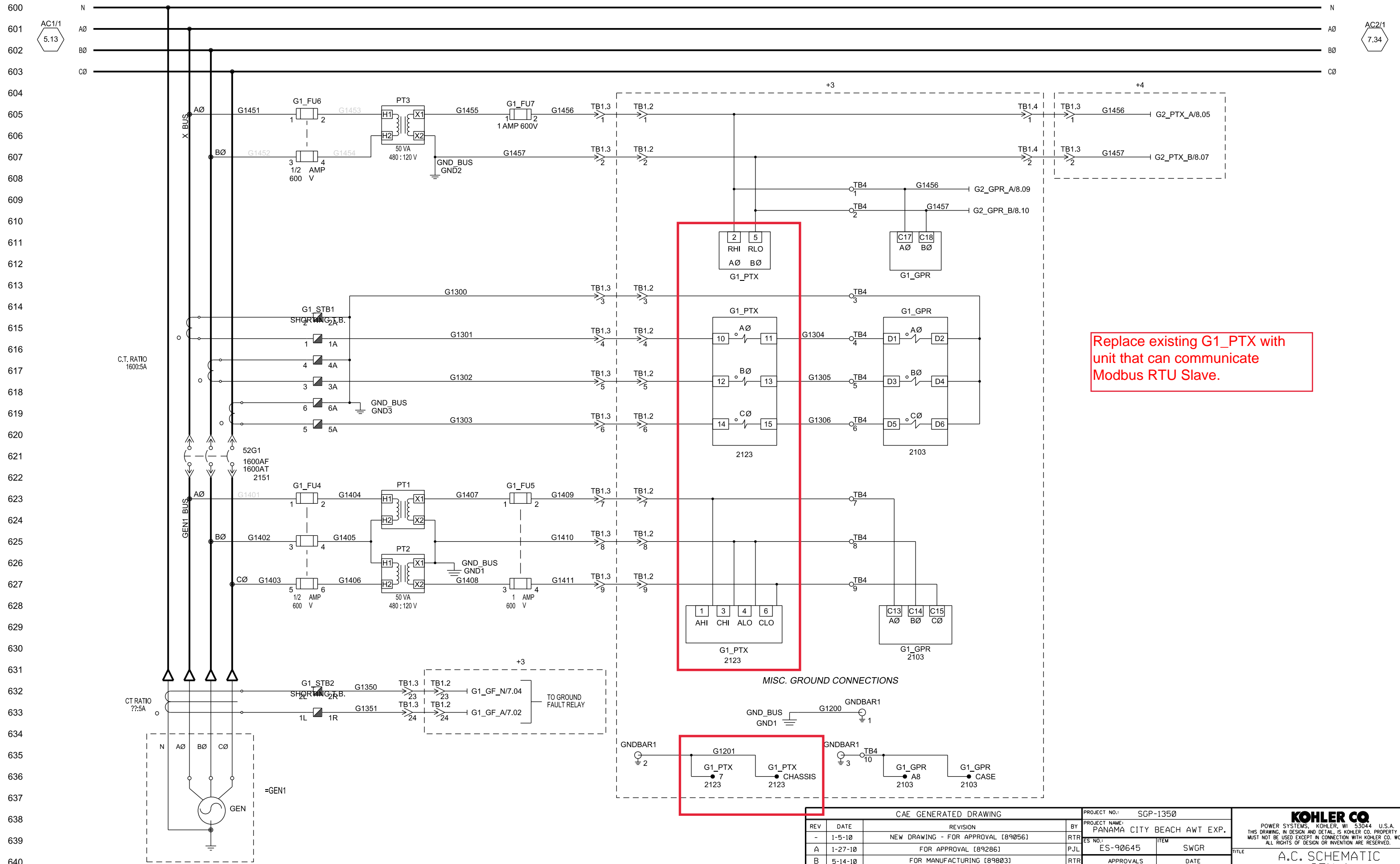
SECTION/FUNCTION  
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PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR	A.C. SCHEMATIC FEEDERS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET 5 OF 179



Replace existing G1\_PT\_X with unit that can communicate Modbus RTU Slave.

MISC. GROUND CONNECTIONS

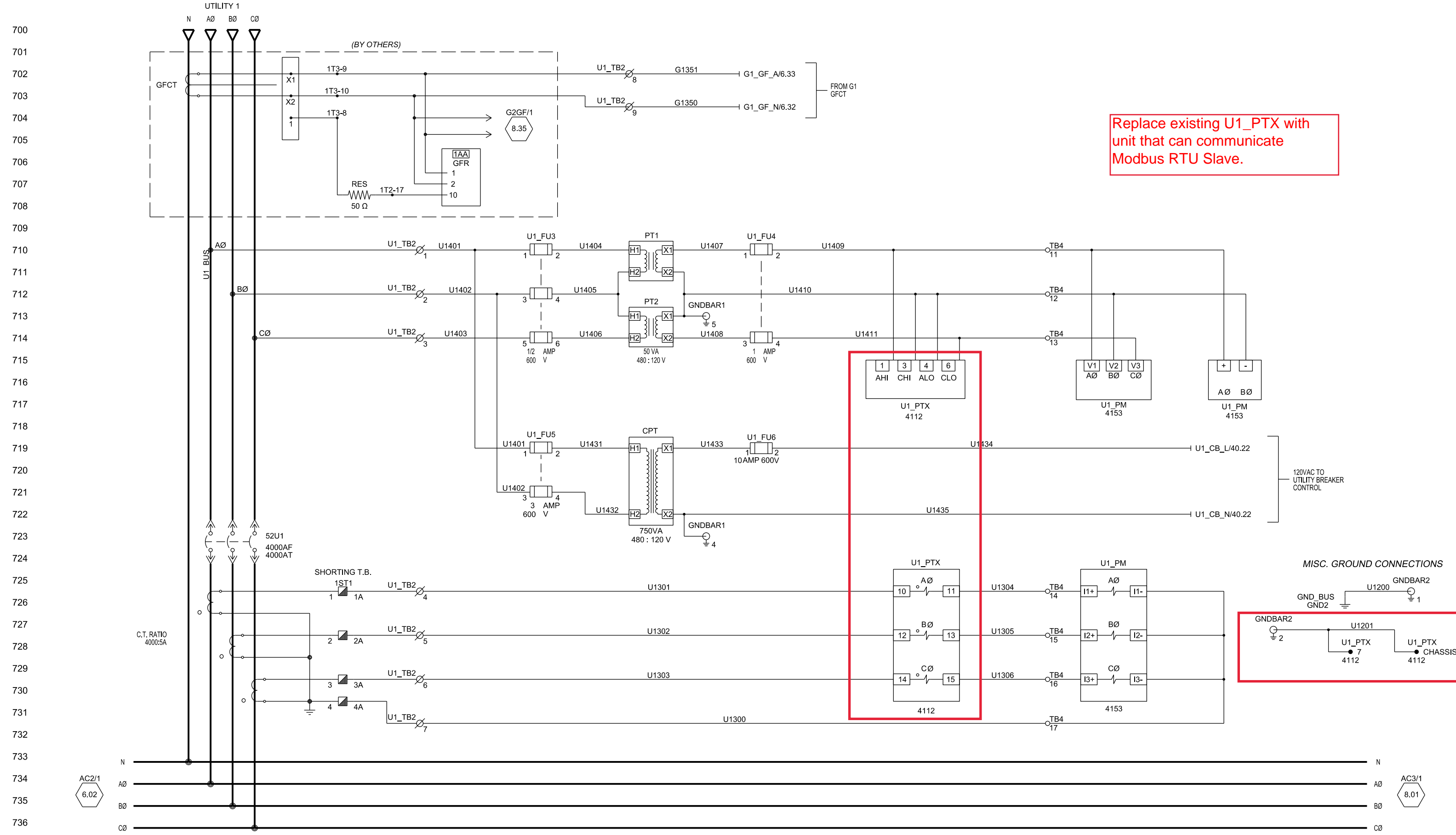
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.: ES-90645	ITEM: SWGR
APPROVALS	DATE
RTR	1-5-10
CHECKED: RMB	1-5-10
APPROVED: RMB	1-5-10

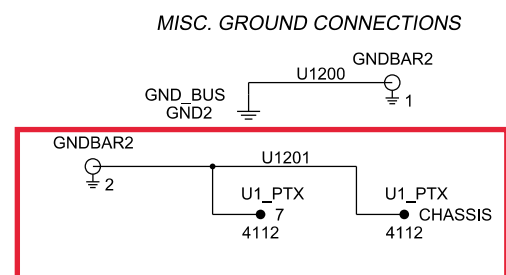
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TITLE: A.C. SCHEMATIC GEN 1	
SCALE	CAD NO.
1-5-10	SGP-1350
PLOTTED	DWG. NO.
1-5-10	SGP-1350
SHEET 6 OF 179	D

SECTION/FUNCTION 2

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



Replace existing U1\_PT with unit that can communicate Modbus RTU Slave.



AC2/1  
6.02

AC3/1  
8.01

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	1-5-10	
			APPROVED	RMB	1-5-10

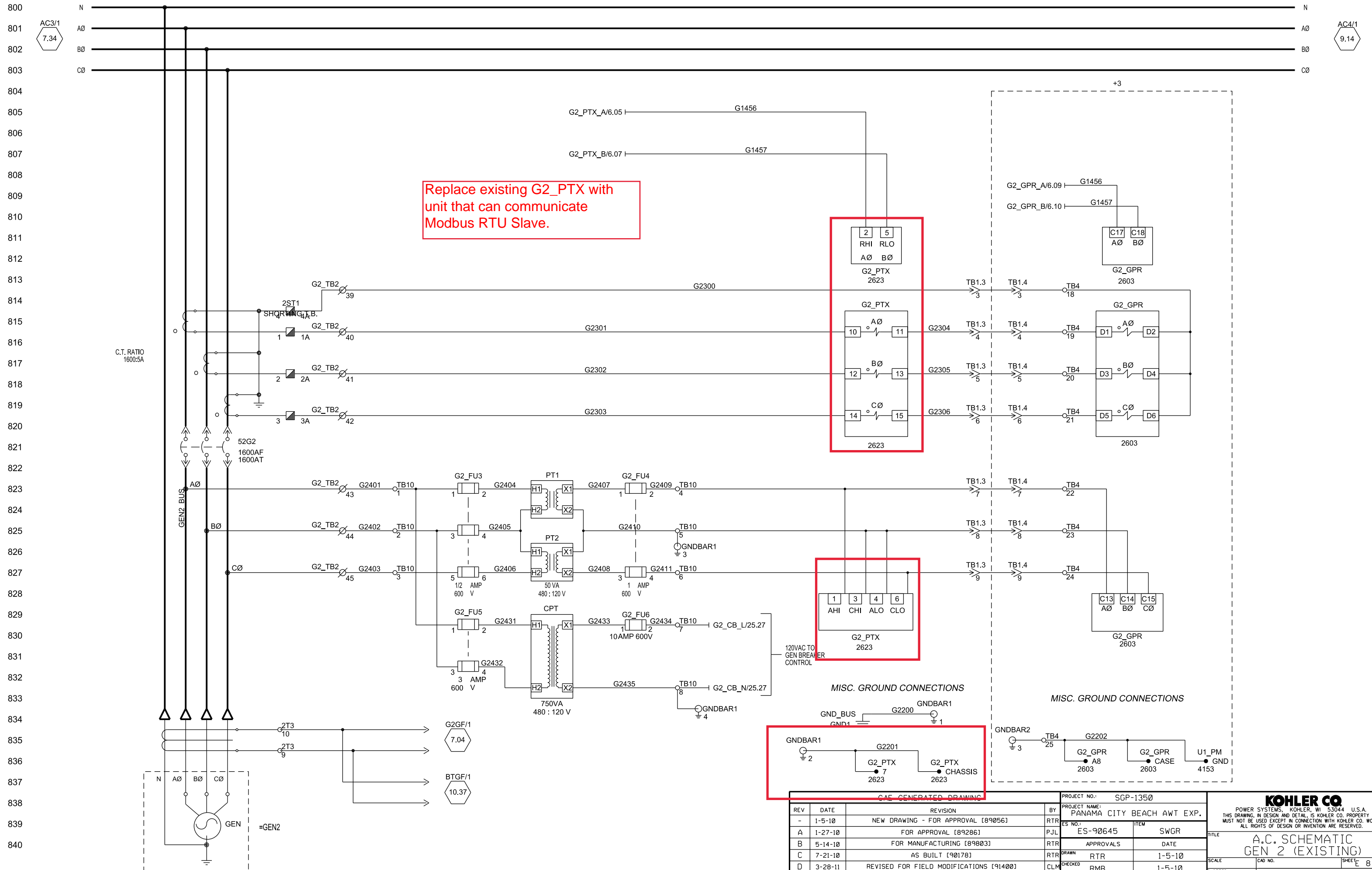
  

SECTION/FUNCTION	3
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<p style="text-align: center;"><b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b></p>	
SCALE	DWG. NO. SGP-1350
TITLE	A.C. SCHEMATIC UTILITY 1 (EXISTING)
PROJECT NO.	SGP-1350
SHEET	7 OF 179





Replace existing G2\_PTX with unit that can communicate Modbus RTU Slave.

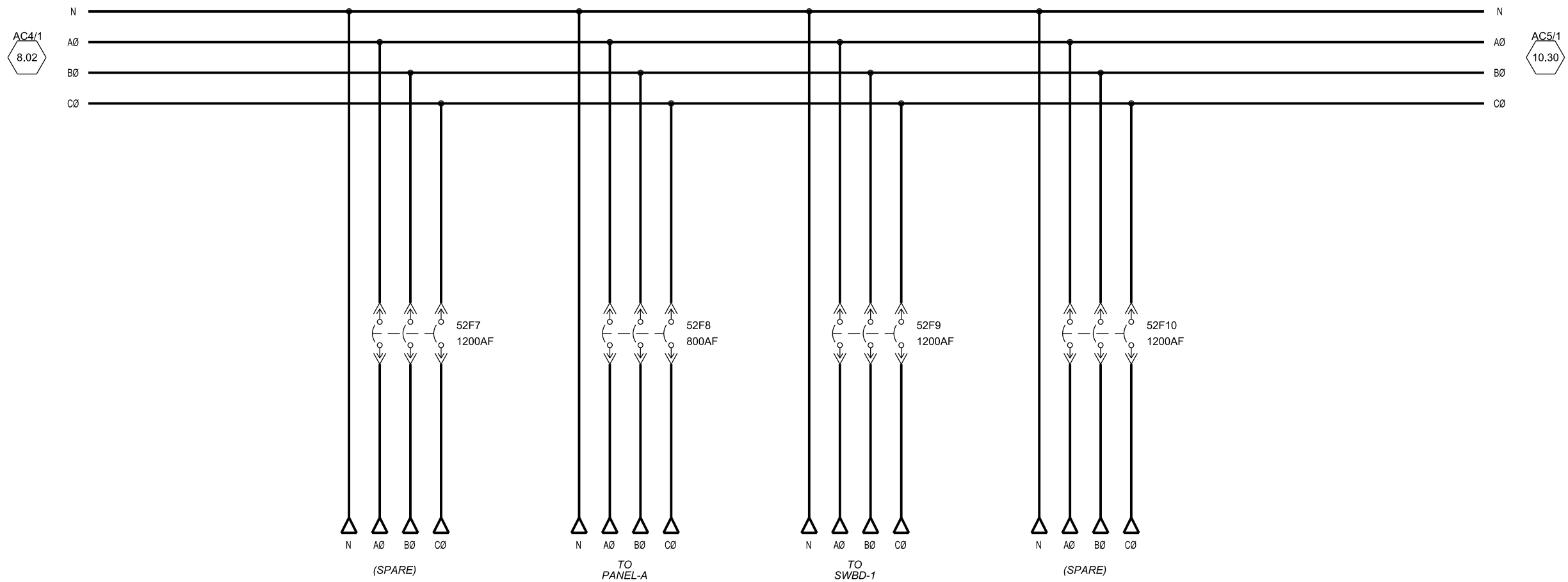
SECTION/FUNCTION 4

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ES-90645
ITEM	SWGR
APPROVALS	DATE
DRAWN	RTR
CHECKED	RMB
APPROVED	RMB

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<p>TITLE: A.C. SCHEMATIC GEN 2 (EXISTING)</p>	
SCALE:	CAD NO.:
FLOTTED:	DWG. NO.:
<p>SHEET 8 OF 179</p>	

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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM: SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN: RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED: RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED: RMB	1-5-10

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TITLE: A.C. SCHEMATIC FEEDERS (EXISTING)

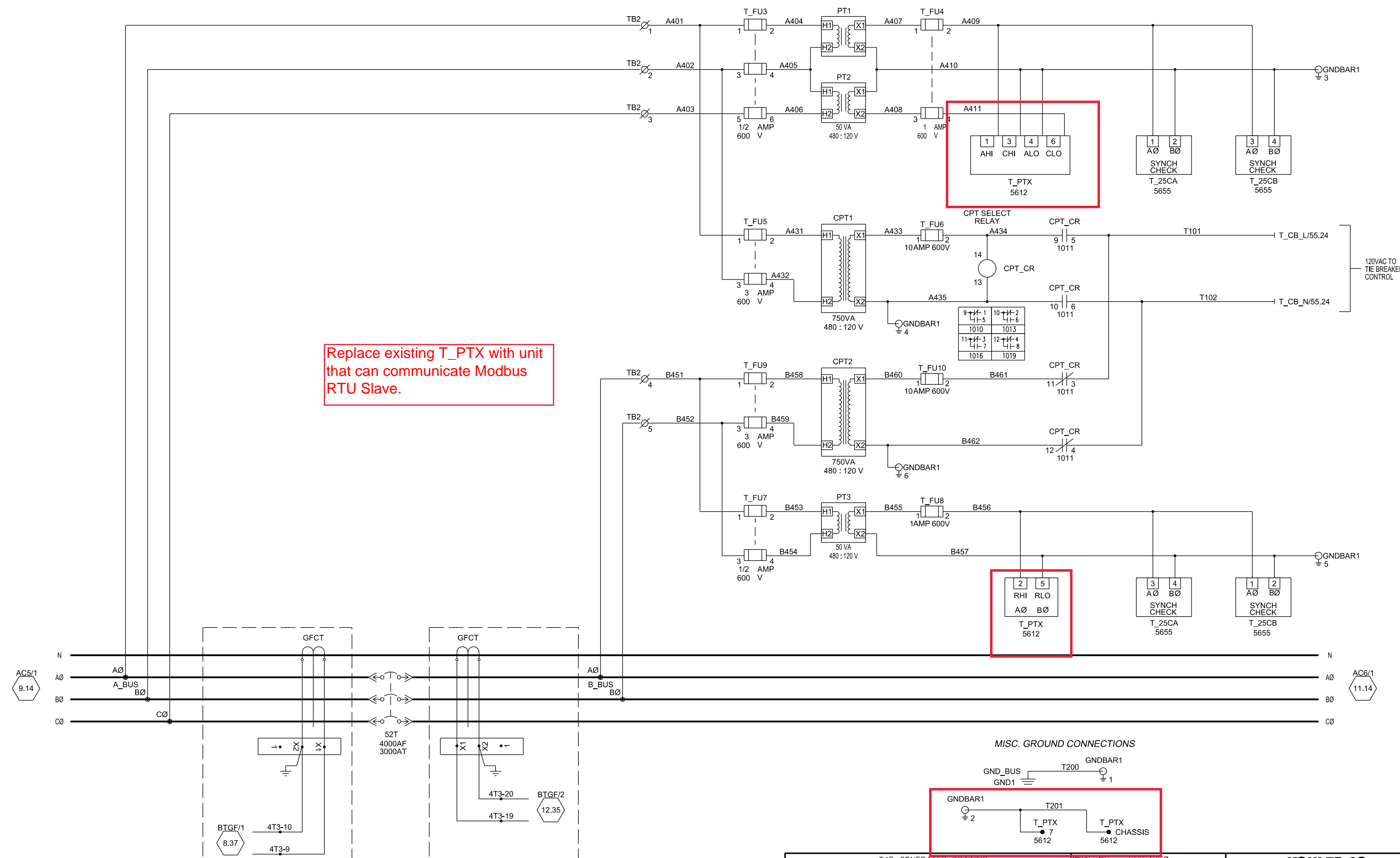
SCALE: CAD NO.: SHEET E 9 OF 179

DWG. NO.: SGP-1350 | D

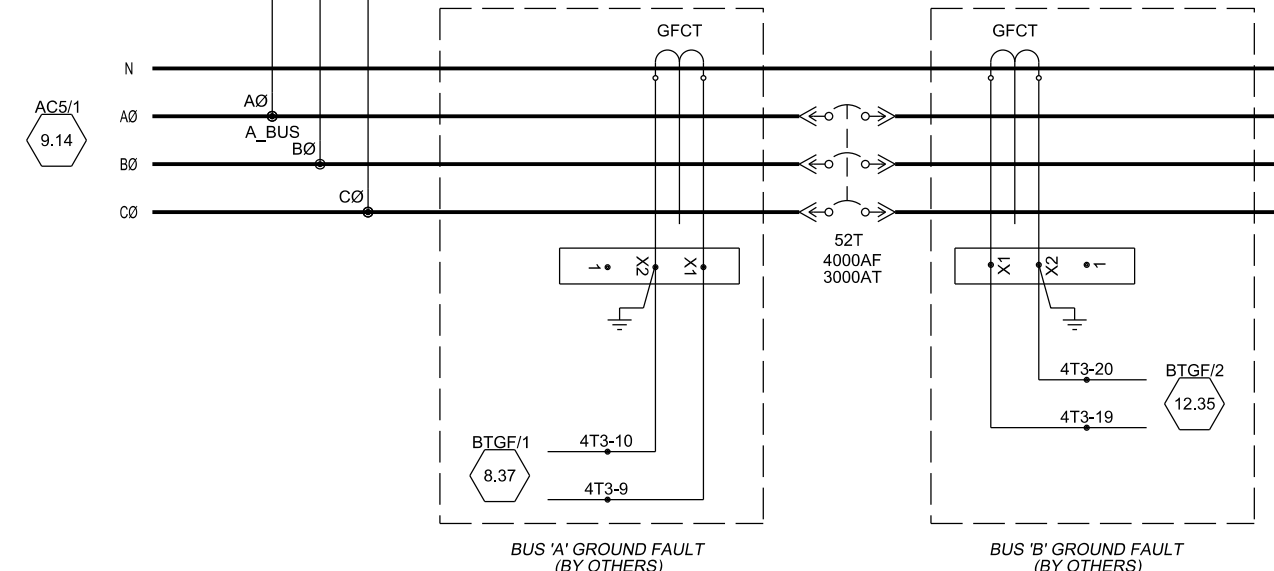
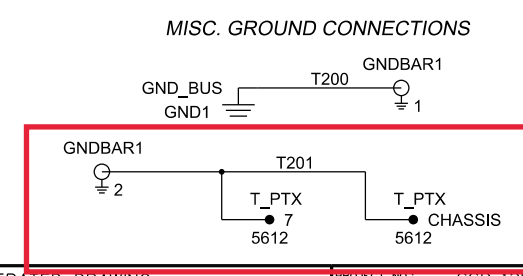
SECTION/FUNCTION 5

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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Replace existing T\_PT1 with unit that can communicate Modbus RTU Slave.



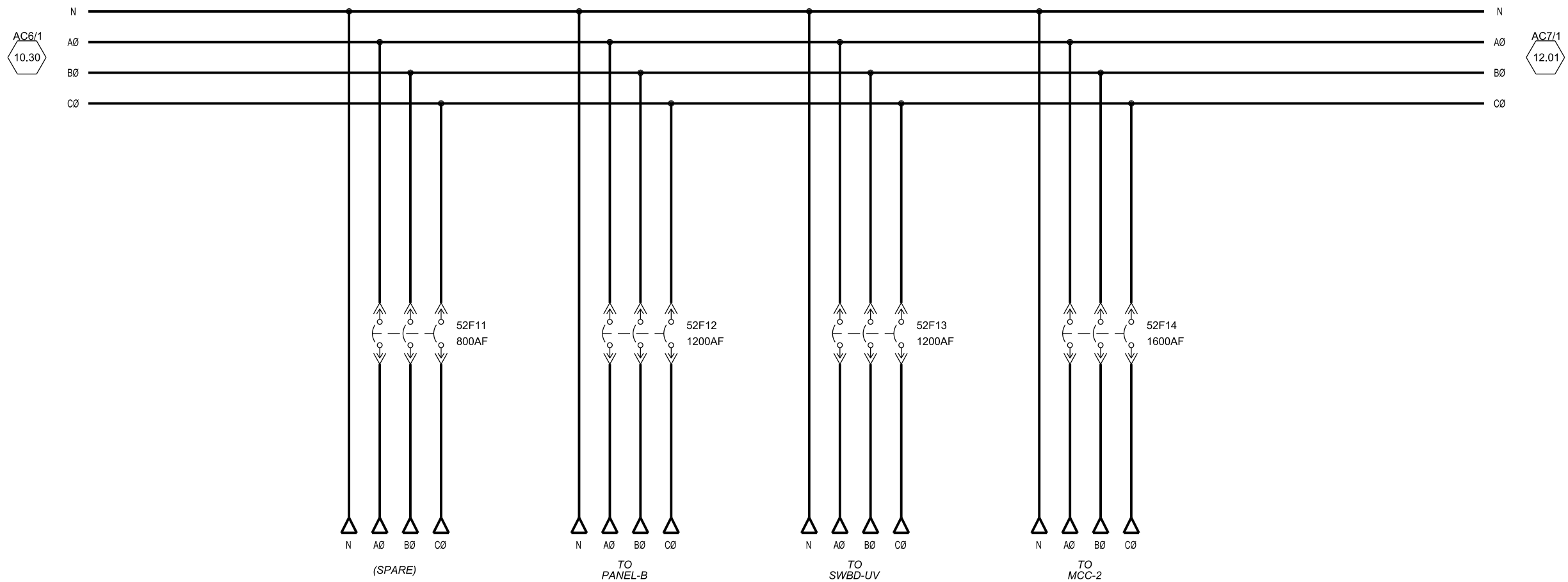
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.: SGP-1350  
PROJECT NAME: PANAMA CITY BEACH AWT EXP.  
ES NO.: ES-90645 ITEM: SWGR  
APPROVALS DATE  
DRAWN RTR 1-5-10  
CHECKED RMB 1-5-10  
APPROVED RMB 1-5-10

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TITLE: A.C. SCHEMATIC TIE (EXISTING)  
SCALE: CAD NO. SHEET E 10 OF 179  
DWC NO. SGP-1350 D

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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

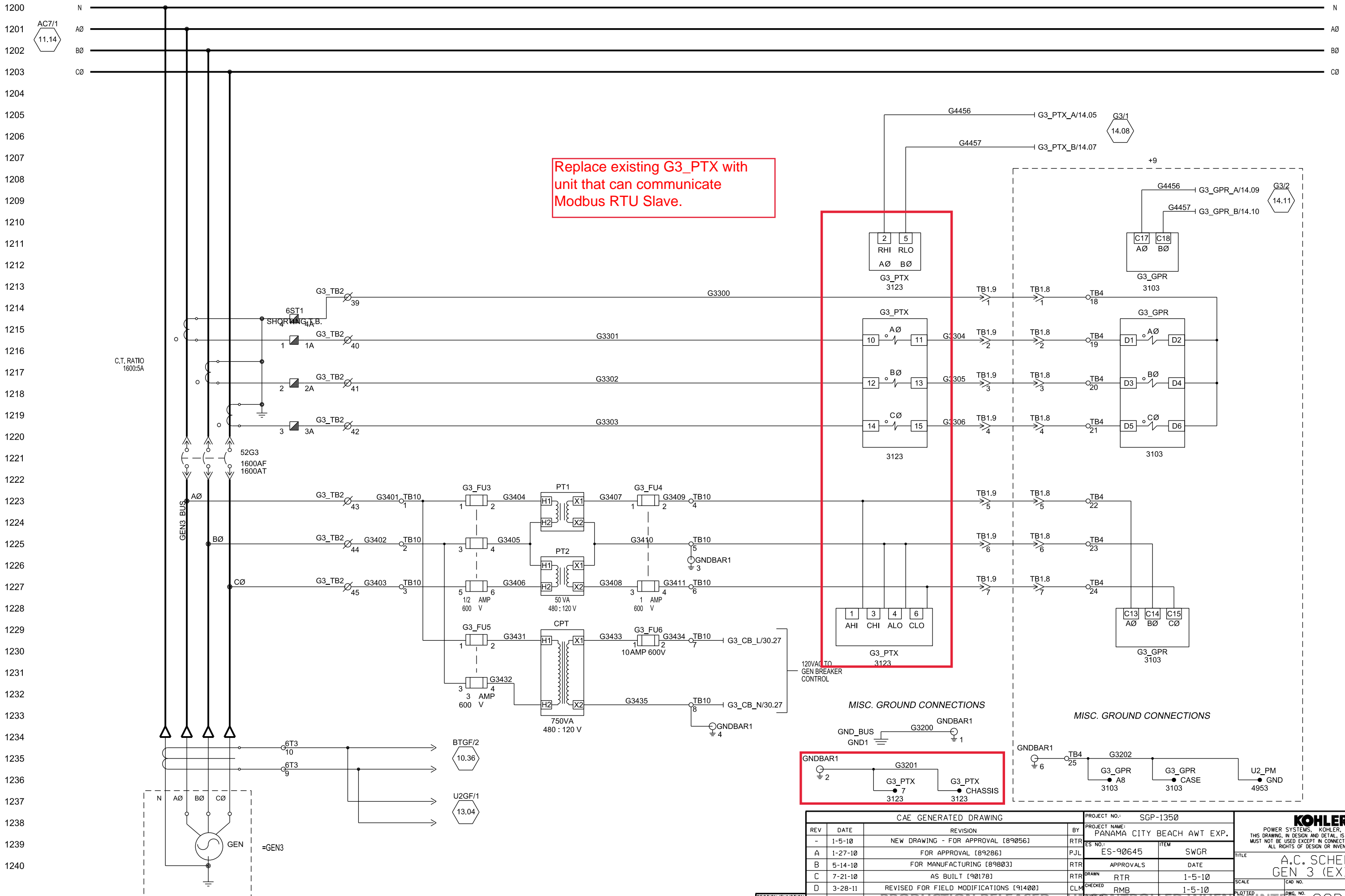
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TITLE: A.C. SCHEMATIC FEEDERS (EXISTING)

SCALE: DWG. NO. SGP-1350 SHEET 11 OF 179

SECTION/FUNCTION: 7

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



Replace existing G3\_PT\_X with unit that can communicate Modbus RTU Slave.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ES-90645
ITEM	SWGR
APPROVALS	DATE
DRAWN	RTR
CHECKED	RMB
APPROVED	RMB

**KOHLER CO**  
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TITLE: **A.C. SCHEMATIC GEN 3 (EXISTING)**

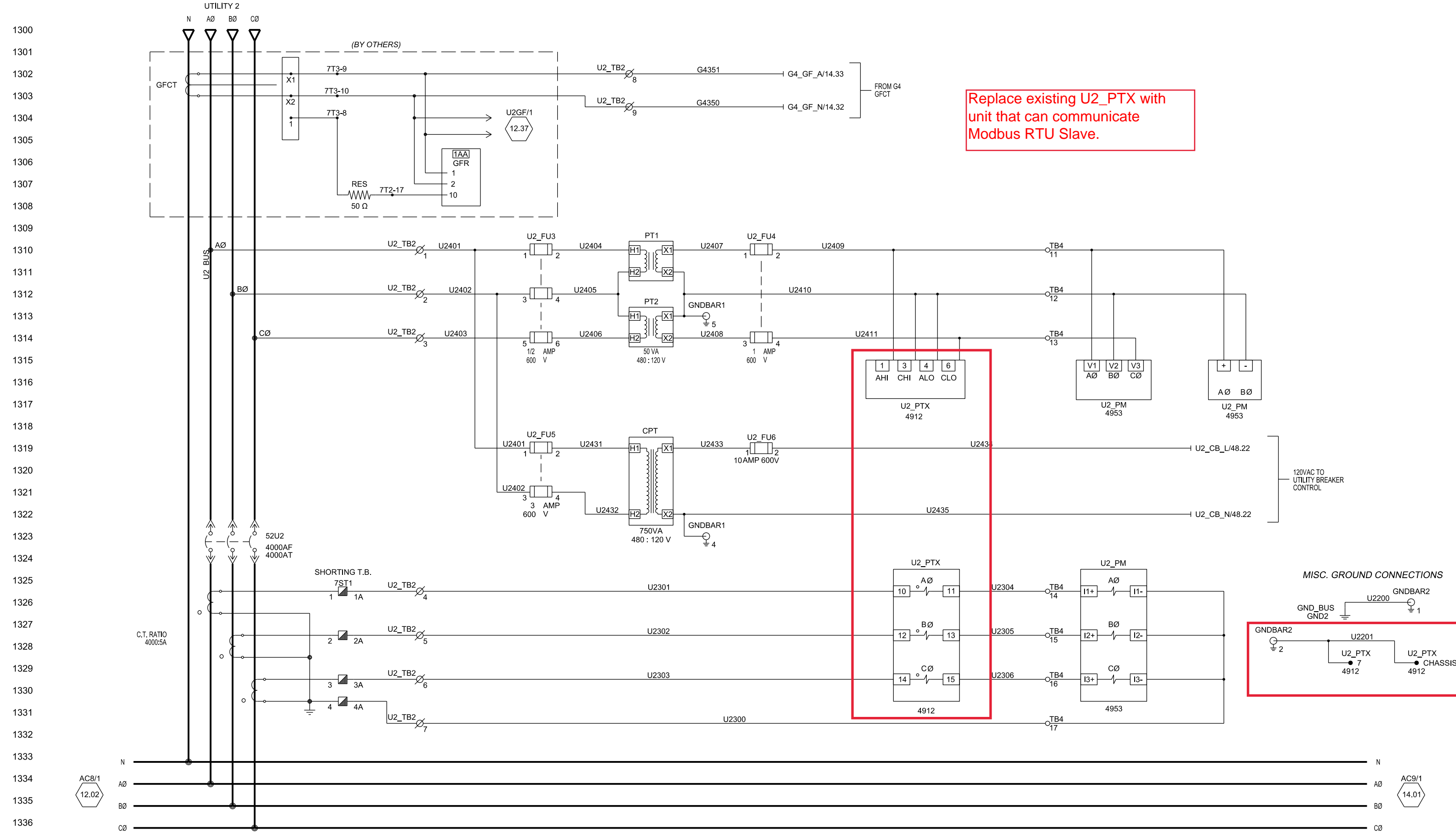
SCALE: 1-5-10

CAD NO. SHEET 12 OF 179

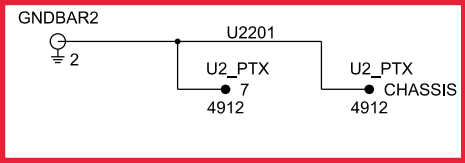
PLOTTED: SGP-1350 D

SECTION/FUNCTION 8

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



Replace existing U2\_PT\_X with unit that can communicate Modbus RTU Slave.



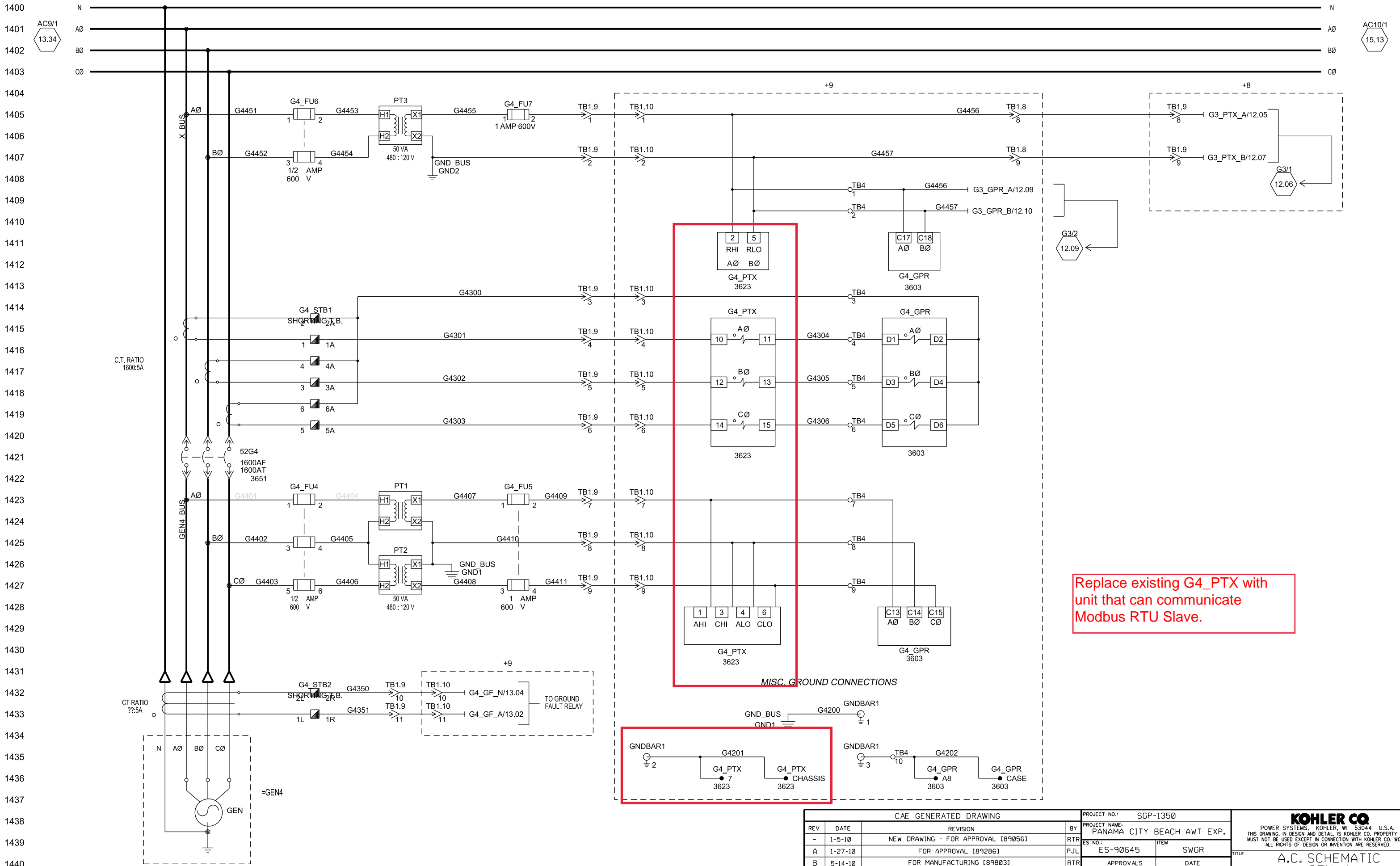
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

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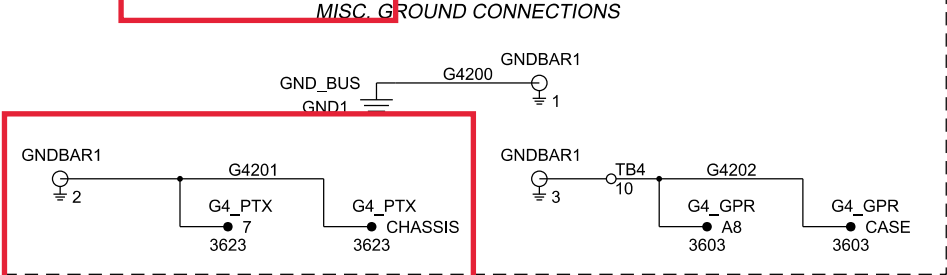
TITLE: **A.C. SCHEMATIC UTILITY 2 (EXISTING)**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: 13 OF 179

PLOTTED: \_\_\_\_\_ DWG. NO.: SGP-1350



Replace existing G4\_PTX with unit that can communicate Modbus RTU Slave.



REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

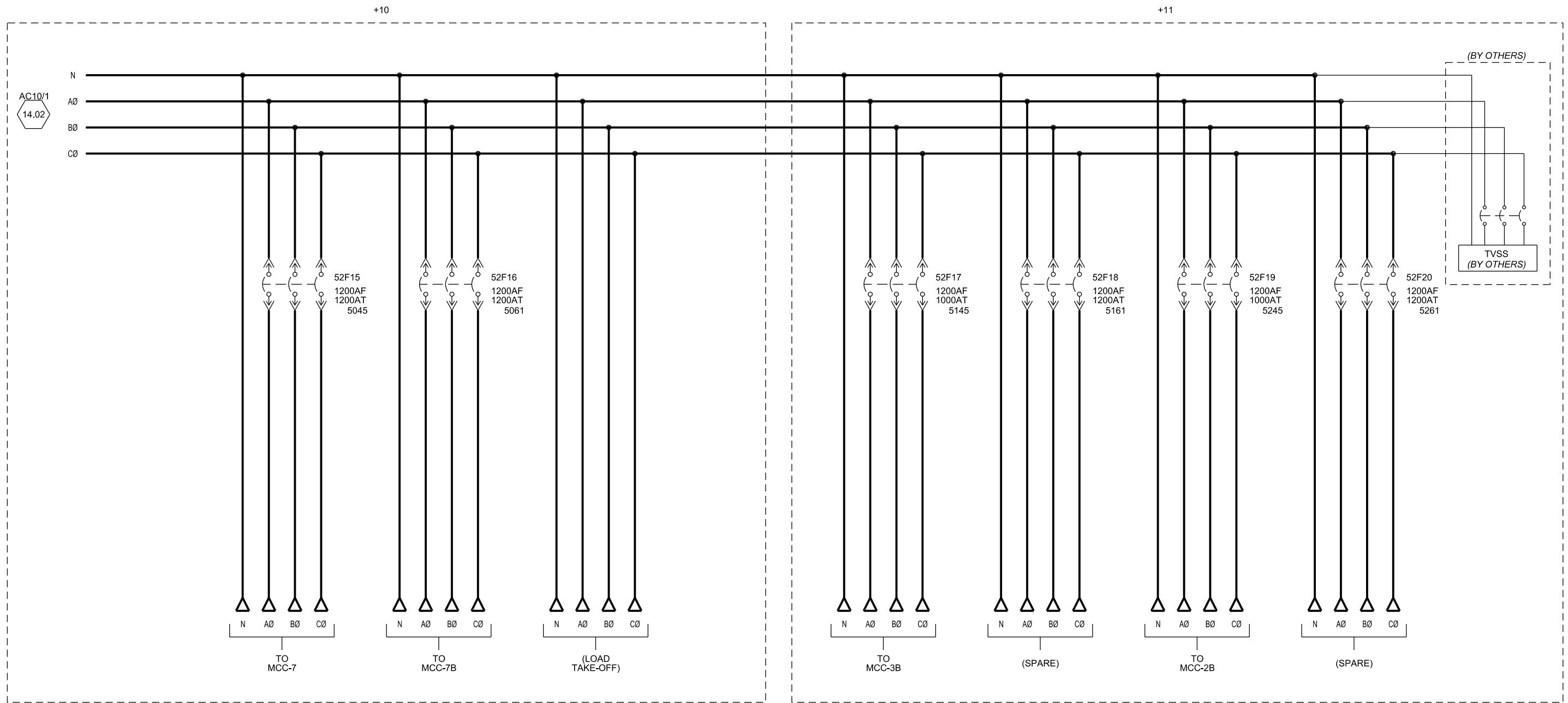
PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.: ES-90645	ITEM: SWGR
APPROVALS	DATE
RTR	1-5-10
RMB	1-5-10
RMB	1-5-10

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TITLE: A.C. SCHEMATIC GEN 4	
SCALE: 1"=10'	CAD NO.: SGP-1350
PLOTTED: 1-5-10	SHEET: 14 OF 179
APPROVED: RMB	DWG. NO.: SGP-1350

SECTION/FUNCTION 10

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	A.C. SCHEMATIC FEEDERS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET 15 OF 179

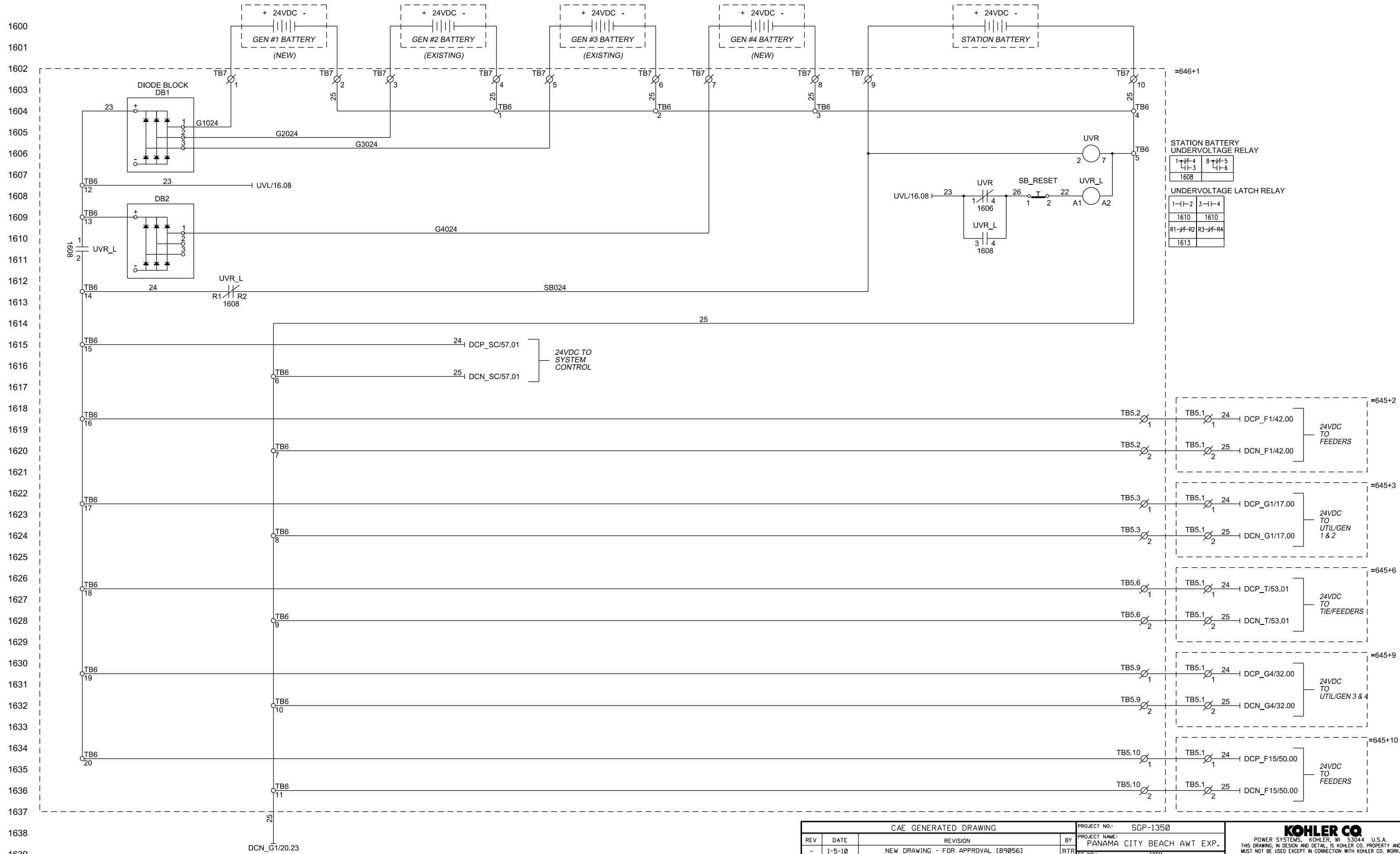
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SECTION/FUNCTION: 10

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D





**STATION BATTERY UNDERVOLTAGE RELAY**

1-1-4	8-1-5
4-1-3	4-1-6
1608	

**UNDERVOLTAGE LATCH RELAY**

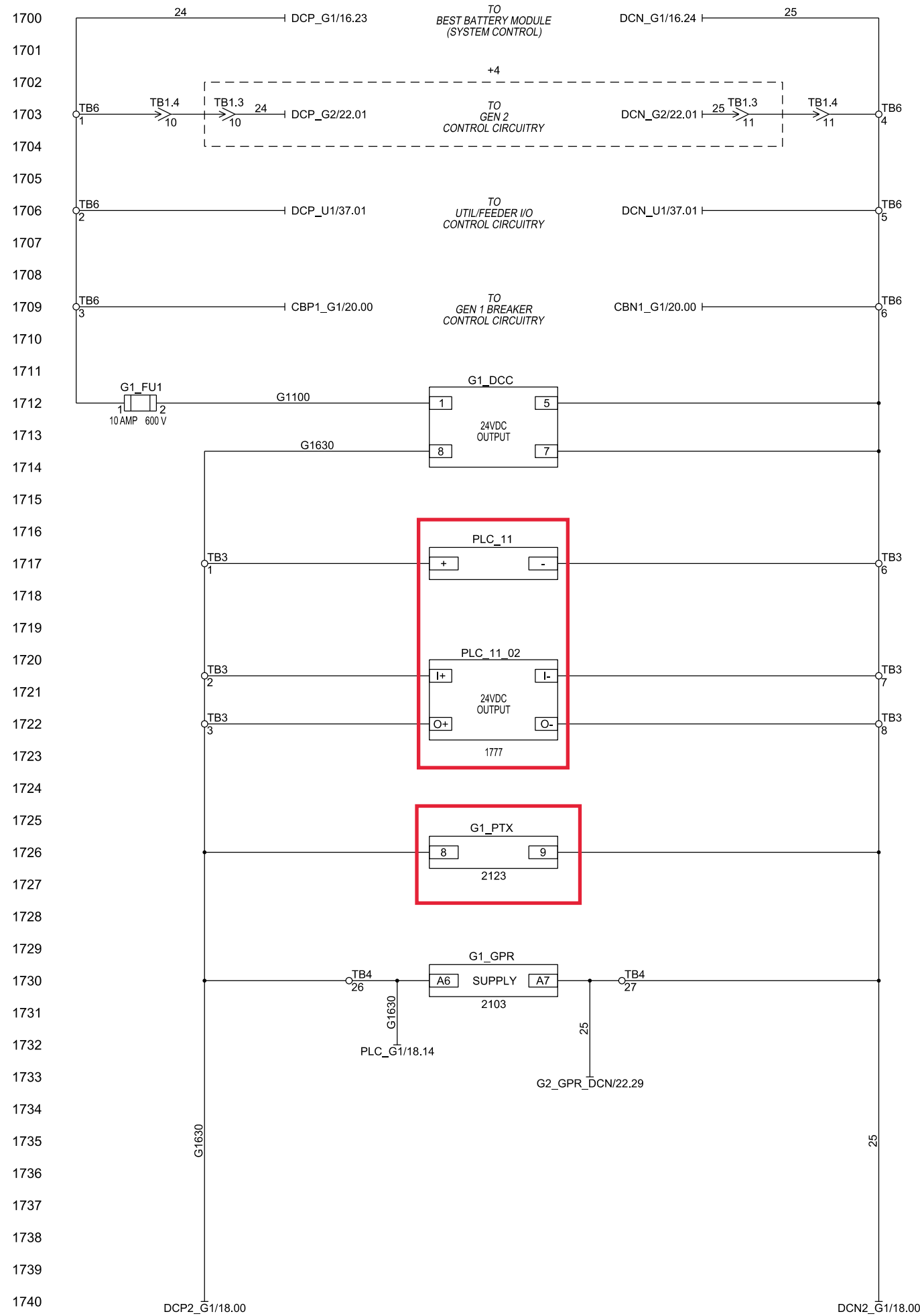
1-1-2	3-1-4
1610	1610
R1-1-R2	R3-1-R4
1613	

CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90646	ITEM CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10

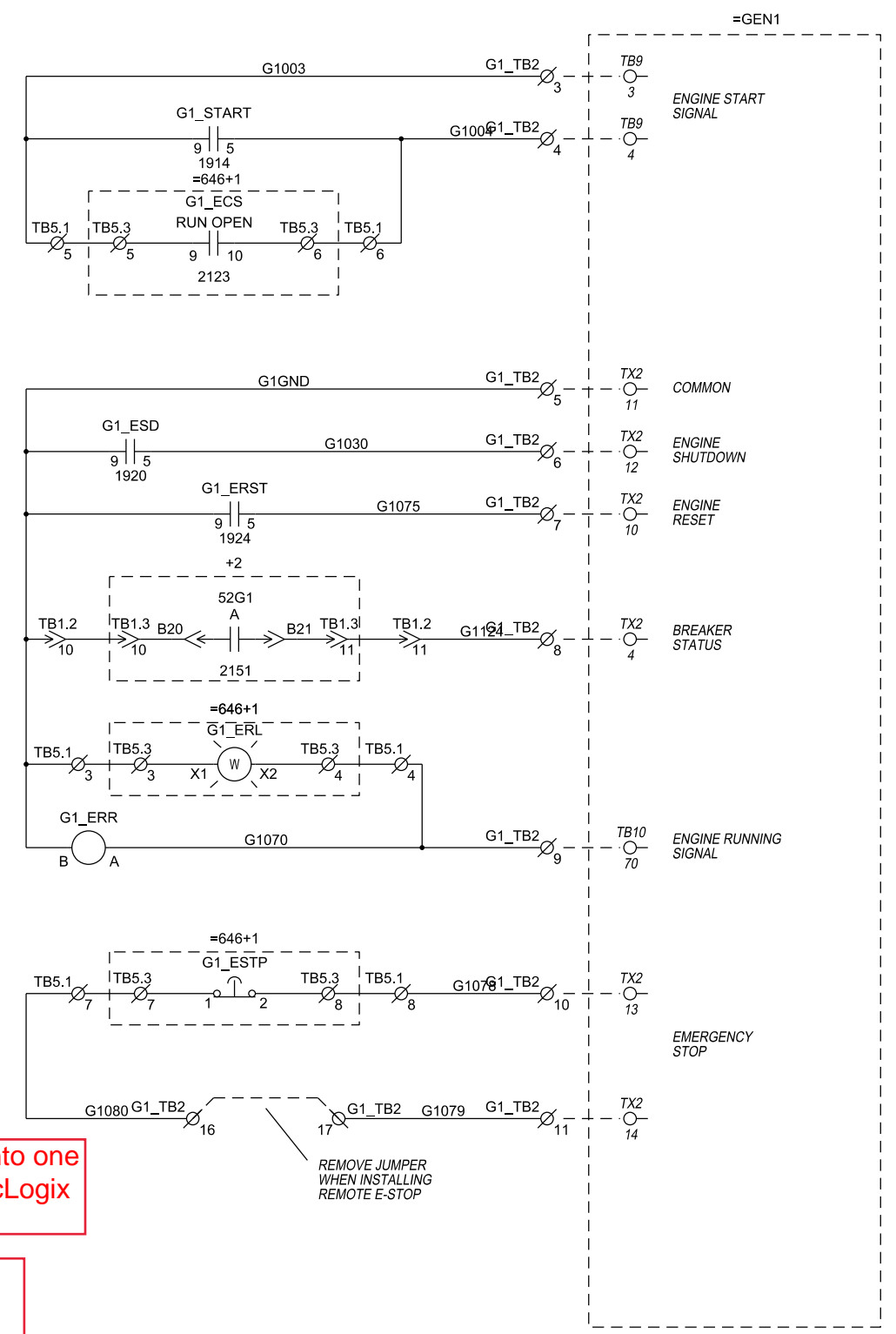
TITLE	D.C. SCHEMATIC POWER DISTRIBUTION	
SCALE	CAD NO.	SHEET E 16 OF 179
PLOTTED	DWG. NO.	SGP-1350

SECTION/FUNCTION 1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



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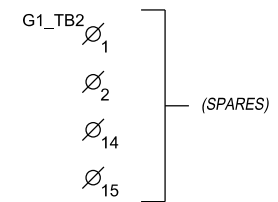
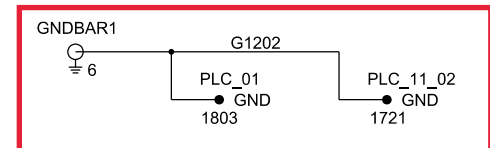


ENGINE RUNNING RELAY

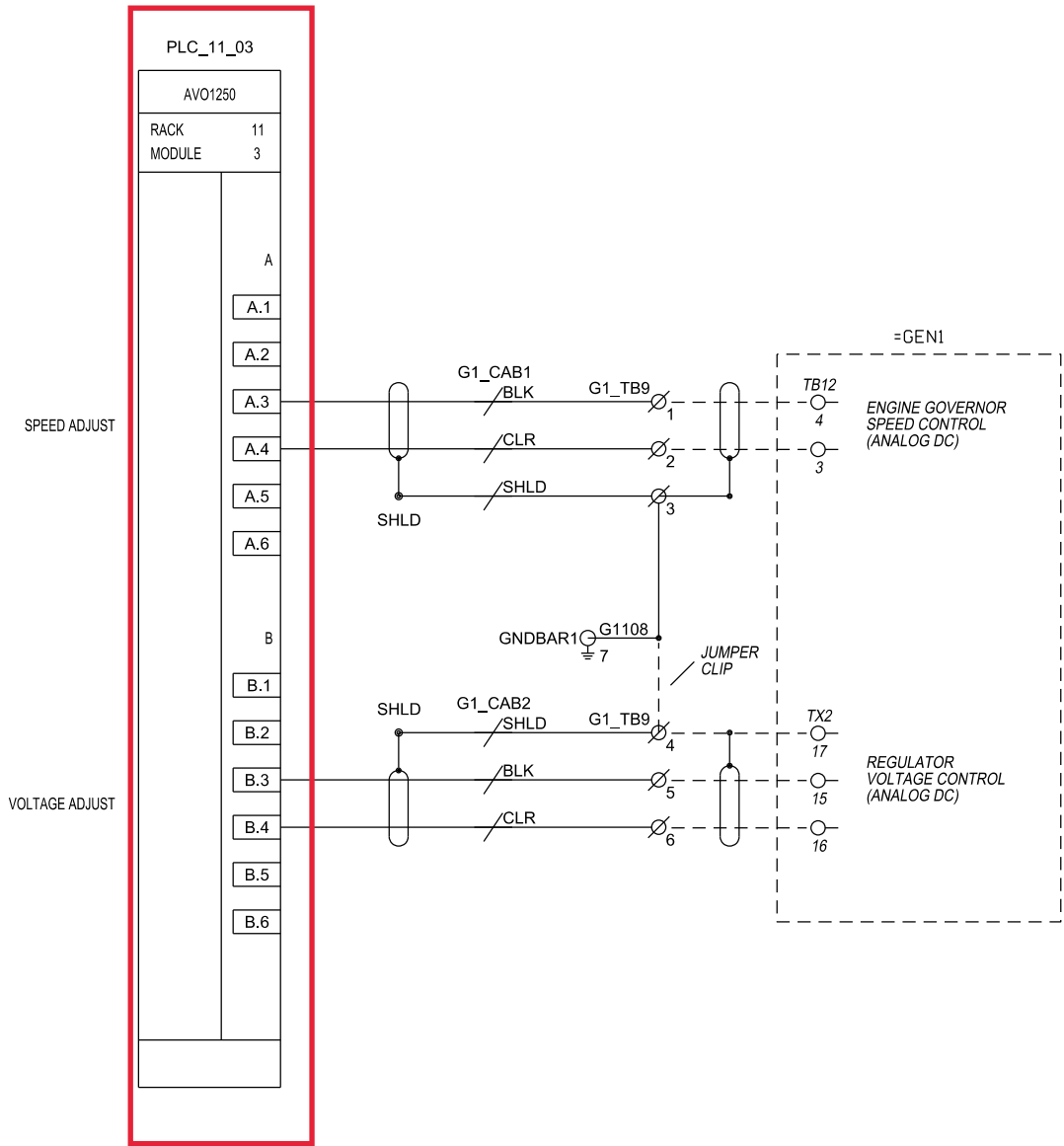
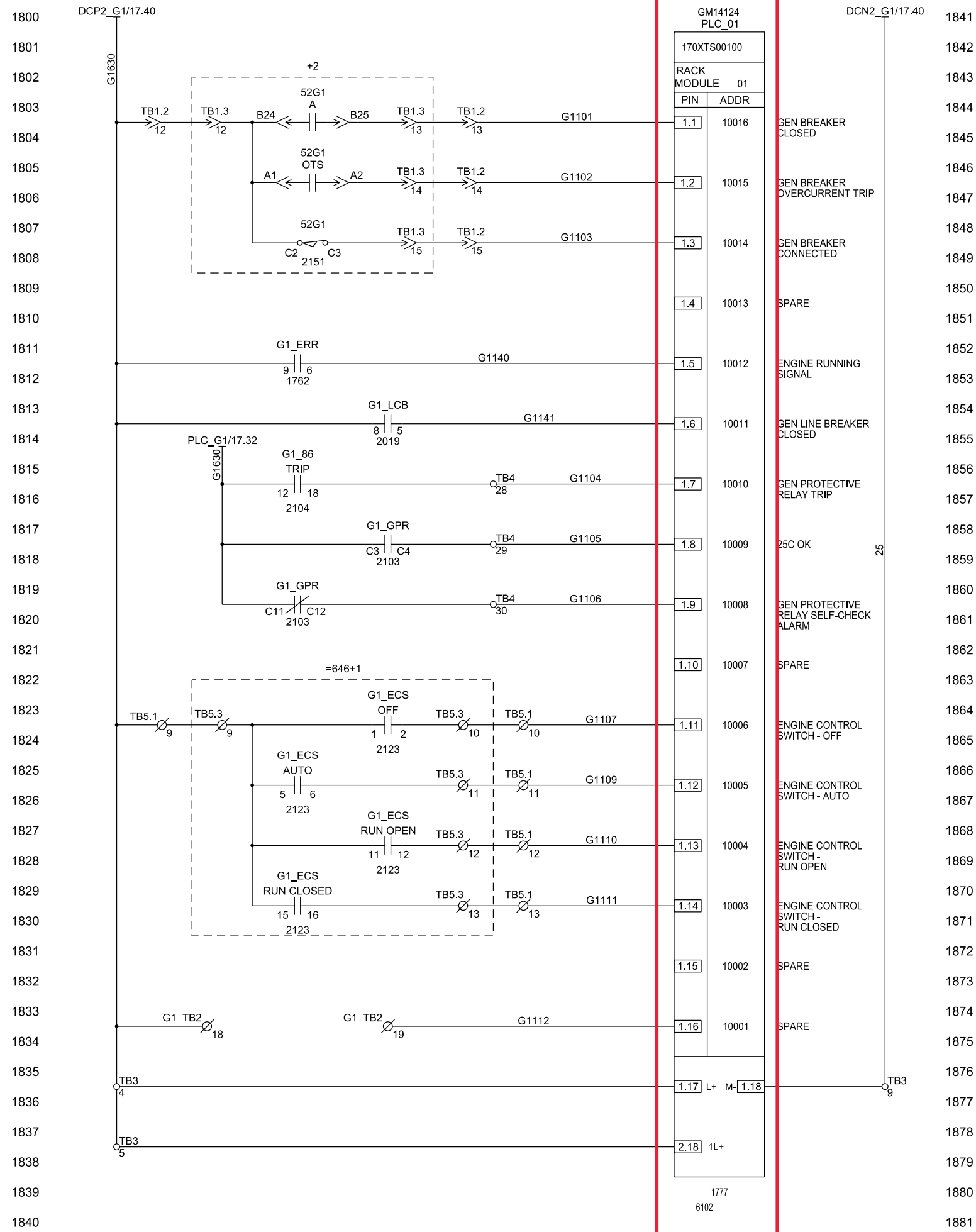
9	8	7
1-3	1-2	1-1
1812	2007	6009

Combine PLC\_01 and PLC\_11 into one PLC using Allen-Bradley CompacLogix

Replace existing G1\_PTX with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	DATE	1-5-10	SHEET 17 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	DWG. NO.	
				APPROVED	RMB	SGP-1350	



Combine PLC\_01 and PLC\_11 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

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TITLE: **D.C. SCHEMATIC GEN 1**

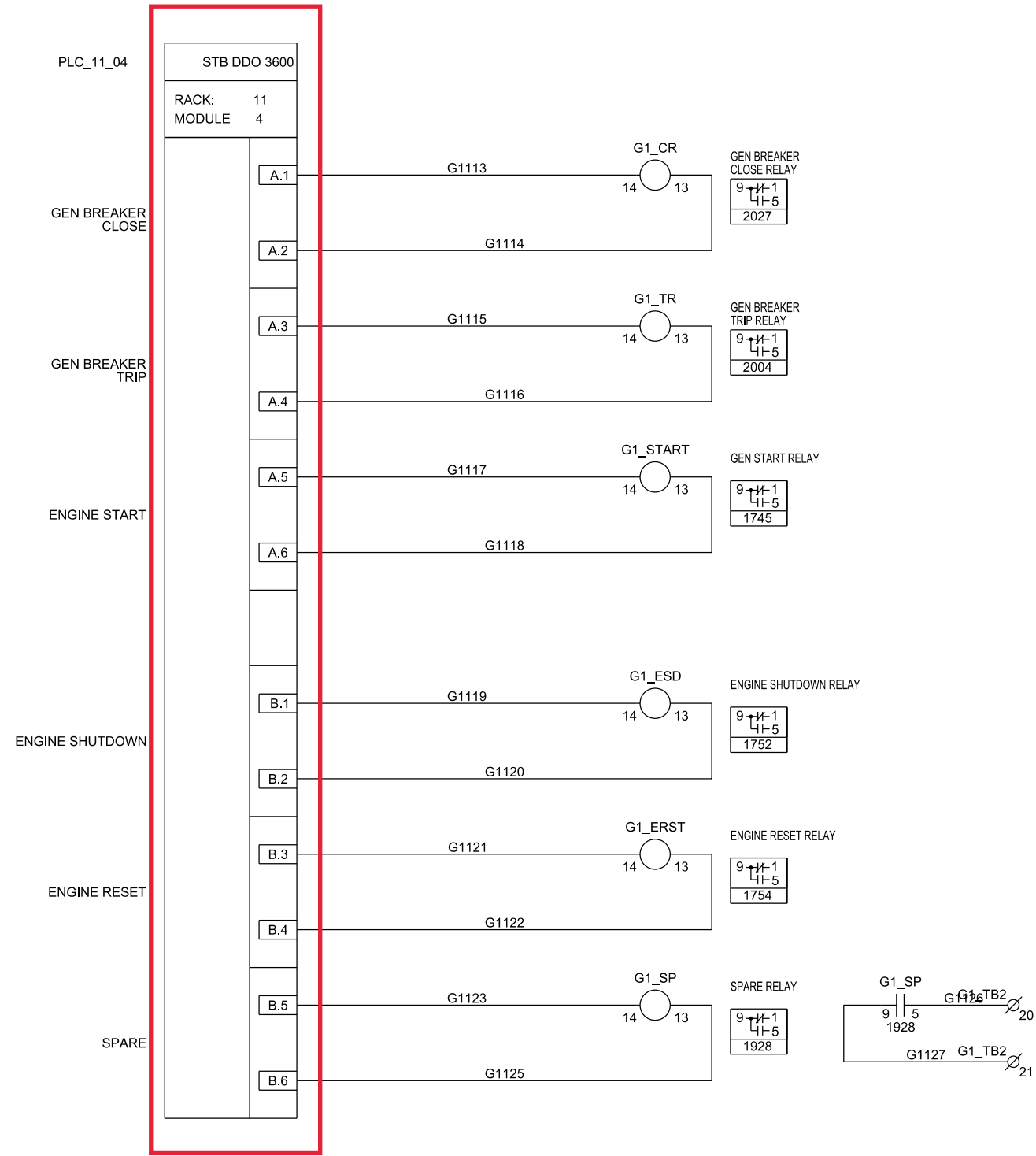
SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: **18 OF 179**

PLOTTED: \_\_\_\_\_ DWG. NO.: **SGP-1350** D

SECTION/FUNCTION 3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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Combine PLC\_01 and PLC\_11 into one PLC using Allen-Bradley CompacLogix

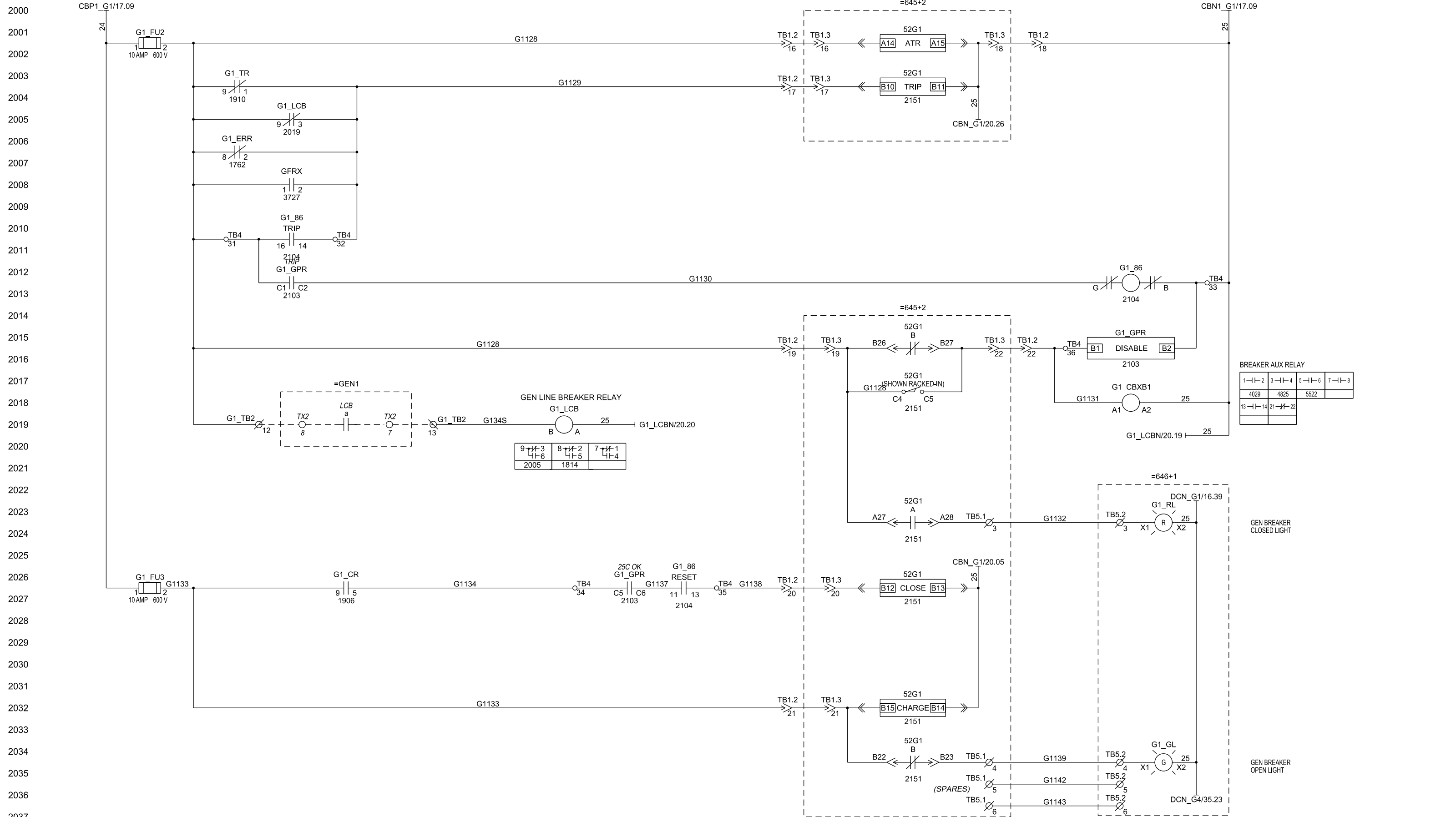
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET 19 OF 179

SECTION/FUNCTION 3

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PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D



BREAKER AUX RELAY

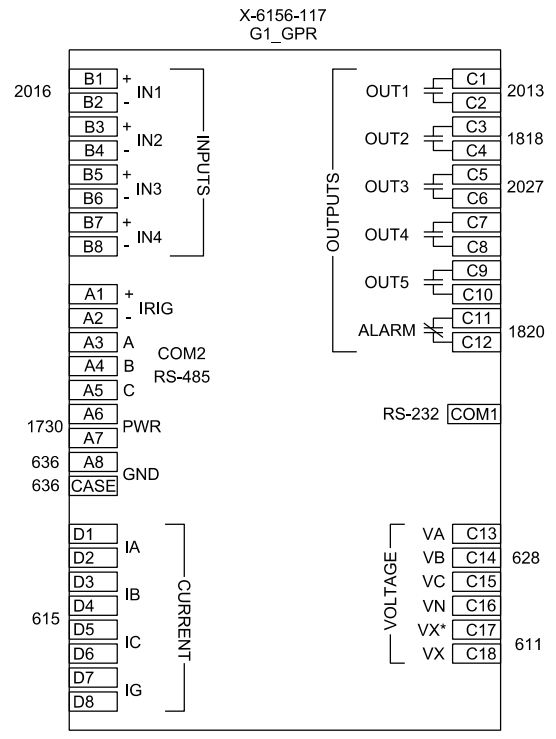
1-1-2	3-1-4	5-1-6	7-1-8
4029	4825	5522	
13-1-14	21-1-22		

9-1-3	8-1-2	7-1-1
4-1-6	4-1-5	4-1-4
2005	1814	

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC GEN 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	DATE	1-5-10	SHEET E 20 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	DATE	1-5-10	DWG. NO.	
SECTION/FUNCTION 3				APPROVED	RMB	SGP-1350	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

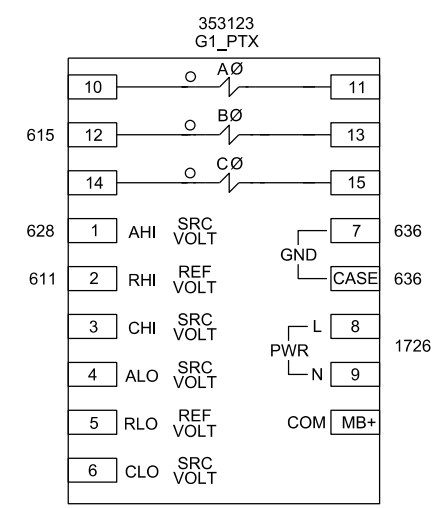
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LOCKOUT RELAY SWITCH  
G1\_86

DECK	CONTACTS	POS.		LINE REF.
		TRIP	RESET	
1	11-11-13	X		2027
	12-11-18	X		1816
	15-11-17	X		
	16-11-14	X		2011
2	21-11-23	X		
	22-11-28	X		
	25-11-27	X		
	26-11-24	X		
3	31-11-33	X		
	32-11-38	X		
	35-11-37	X		
	36-11-34	X		

RELAY  
G - B 2013

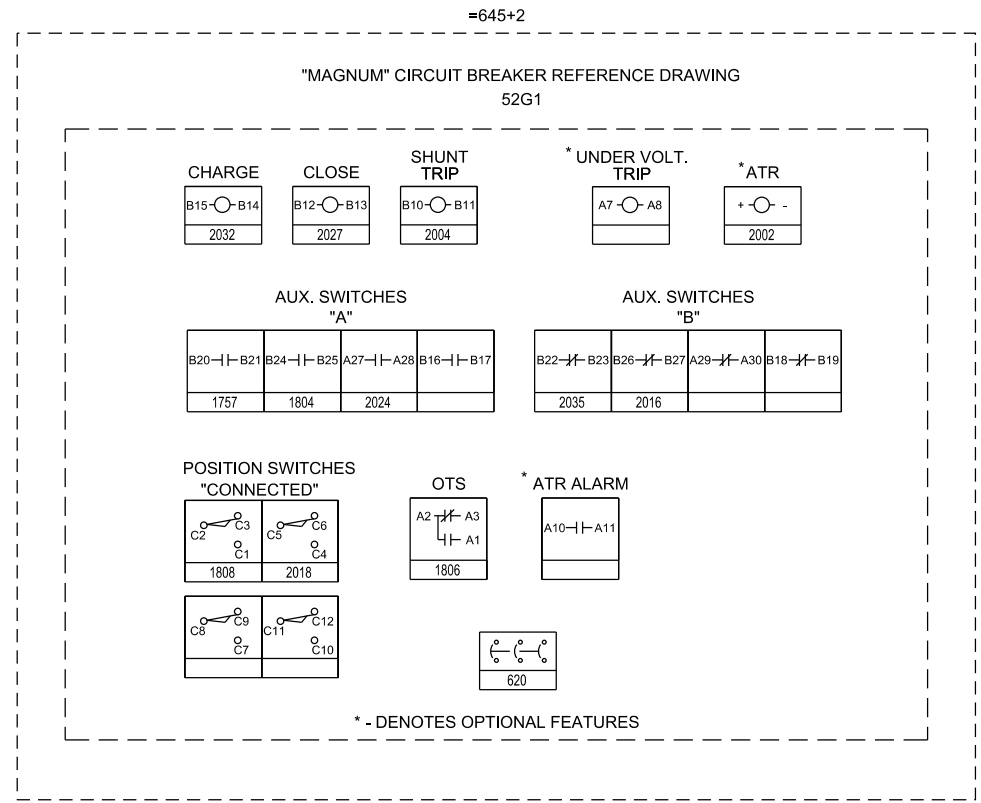


=646+1

ENGINE CONTROL SWITCH  
G1\_ECS

DECK	CONTACTS	POS.				LINE REF.
		OFF	AUTO	RUN OPEN	RUN CLSD	
1	1-1-2	X				1824
2	3-1-4	X				
3	5-1-6	X				1826
4	7-1-8	X				
5	9-1-10		X			1747
6	11-1-12		X			1828
7	13-1-14			X		
8	15-1-16			X		1830

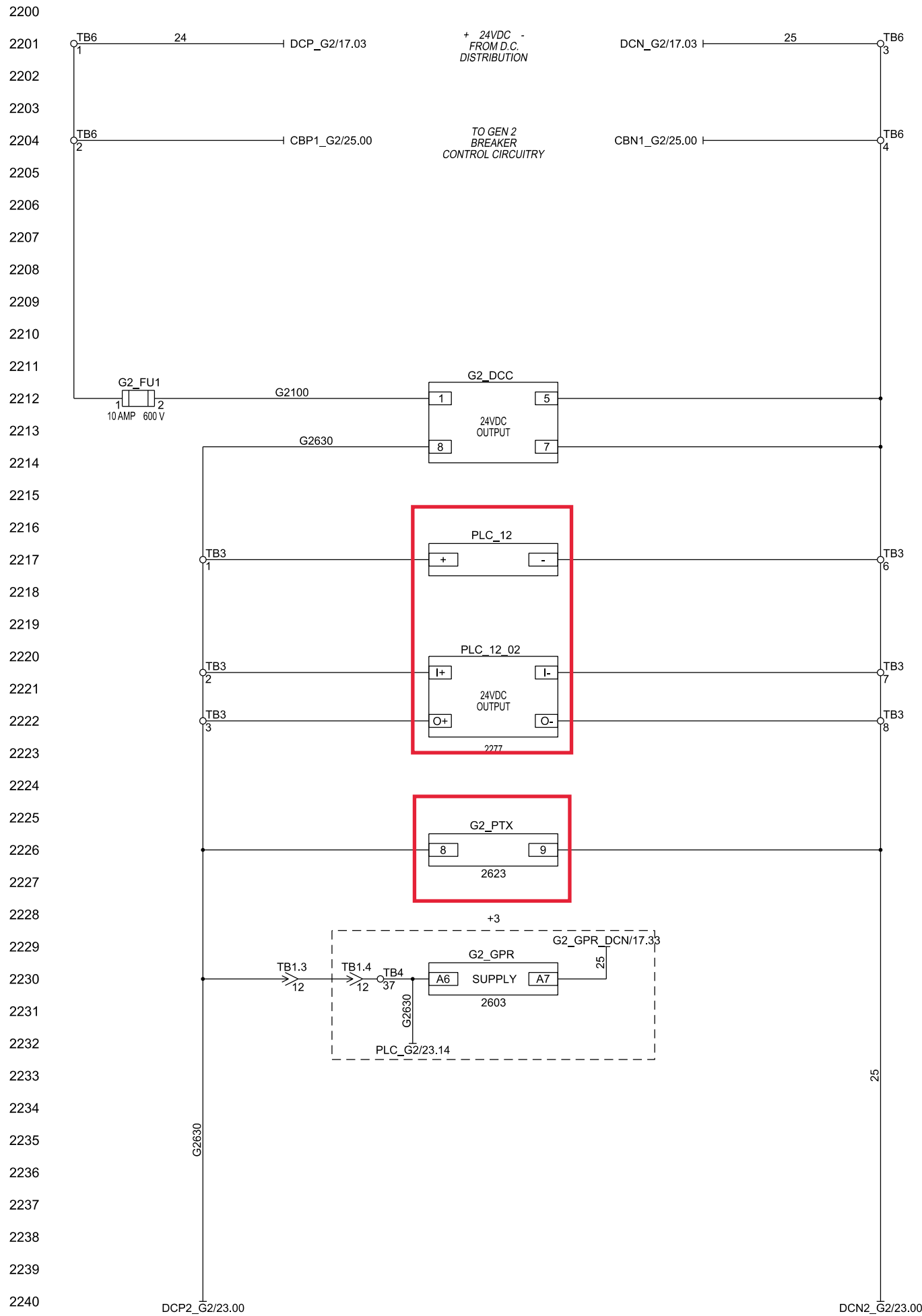
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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS GEN 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	1-5-10	SHEET E 21 OF 179	
			APPROVED	RMB	1-5-10	DWC NO.	
SECTION/FUNCTION 3			APPROVED		RMB	DWC NO.	

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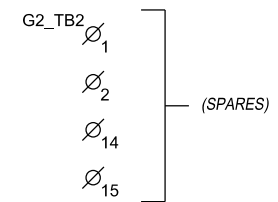
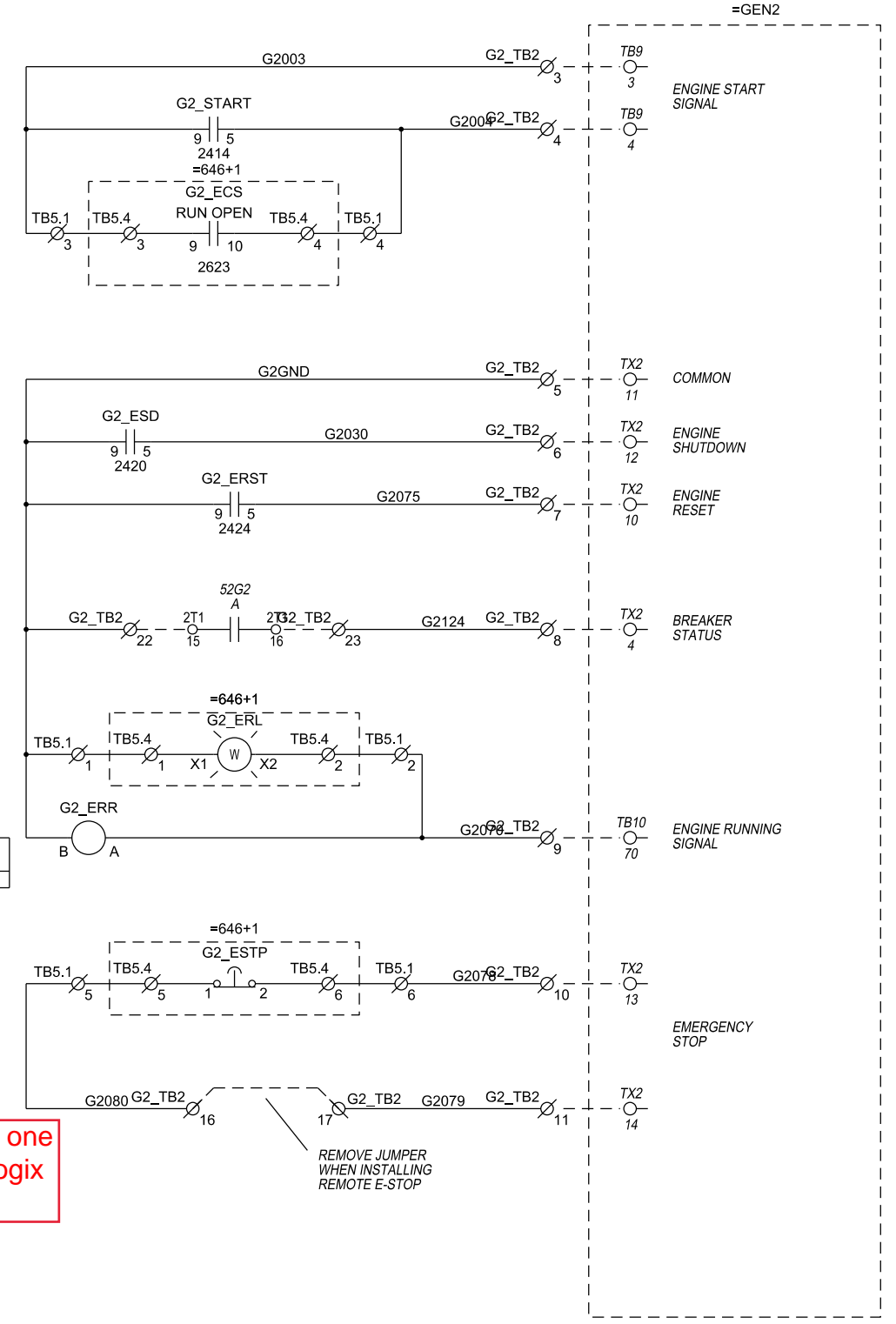
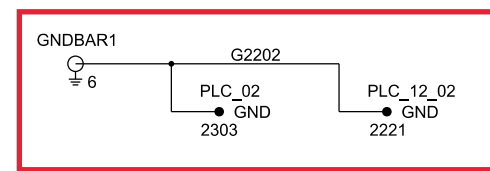
SGP-1350 D



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Combine PLC\_02 and PLC\_12 into one PLC using Allen-Bradley CompacLogix

Replace existing G2\_PTX with unit that can communicate Modbus RTU Slave.

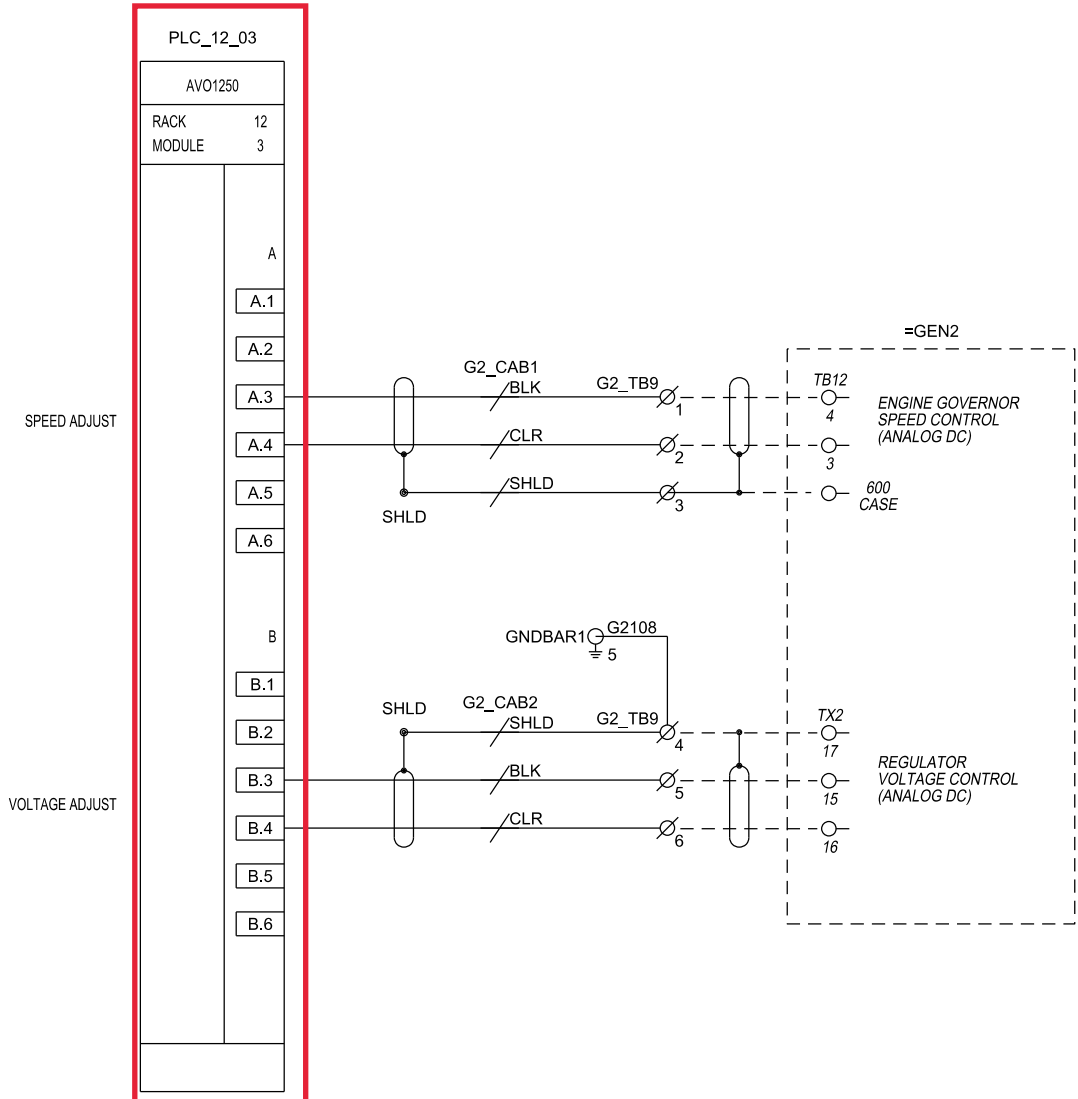
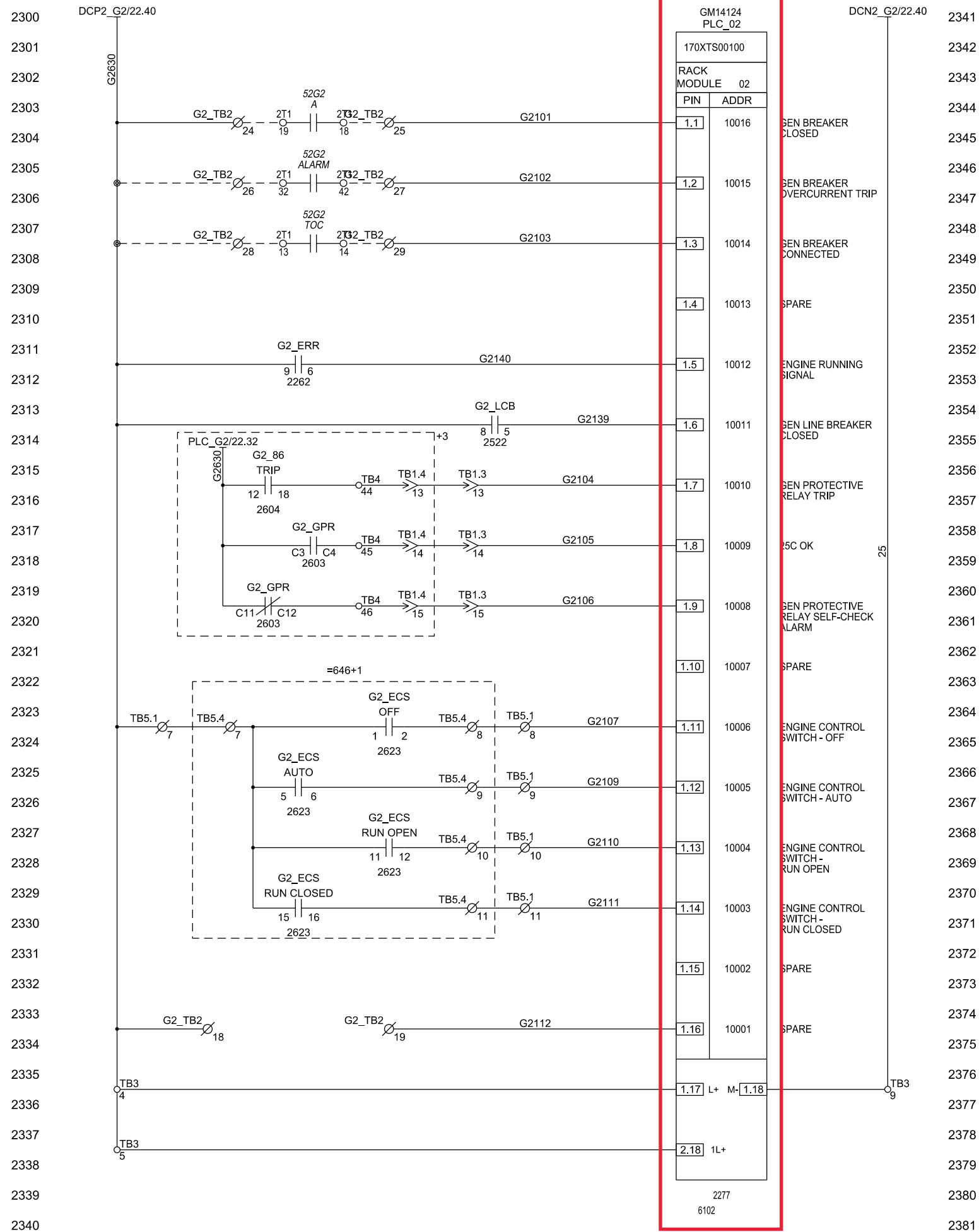


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	SHEET E 22 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWG. NO.	
SECTION/FUNCTION 4				APPROVED		PRINTED	

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SGP-1350 D

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Combine PLC\_02 and PLC\_12 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DNG. NO.	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	SHEET 23 OF 179	

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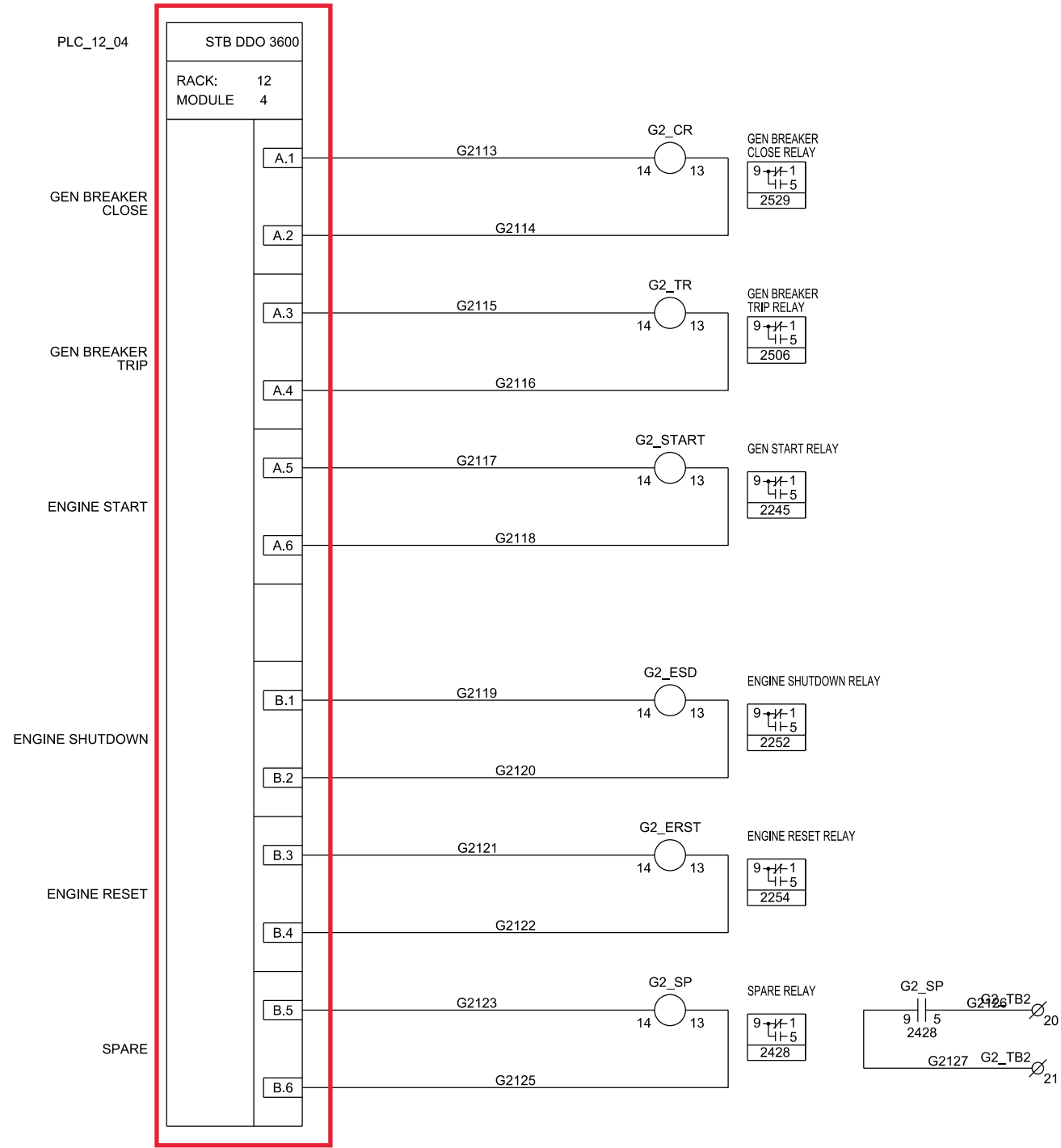
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D



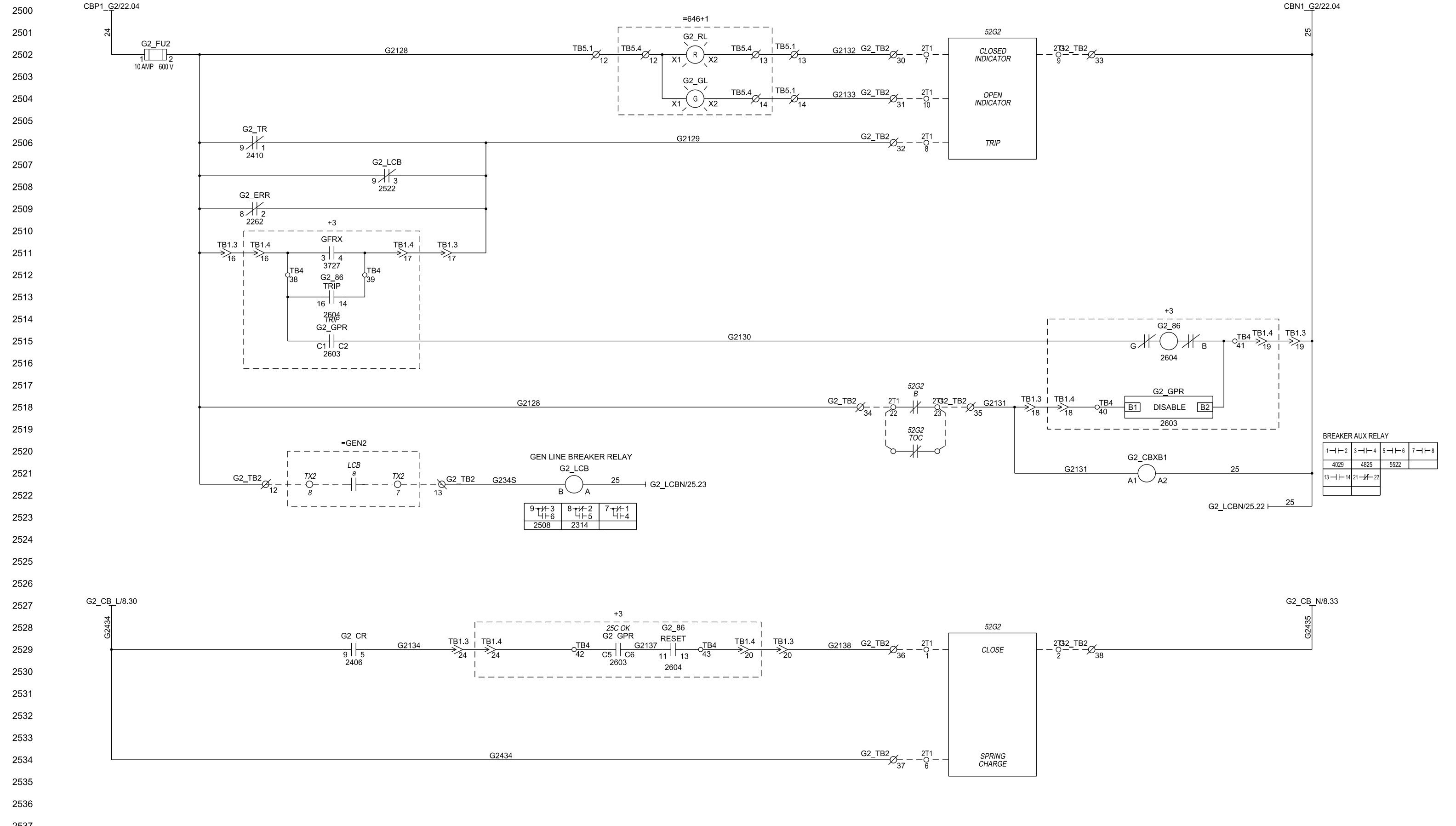
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Combine PLC\_02 and PLC\_12 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET E 24 OF 179



**BREAKER AUX RELAY**

1-1-2	3-1-4	5-1-6	7-1-8
4029	4825	5522	
13-1-14	21-1-22		

9-1-3	8-1-2	7-1-1
4-1-6	4-1-5	4-1-4
2508	2314	

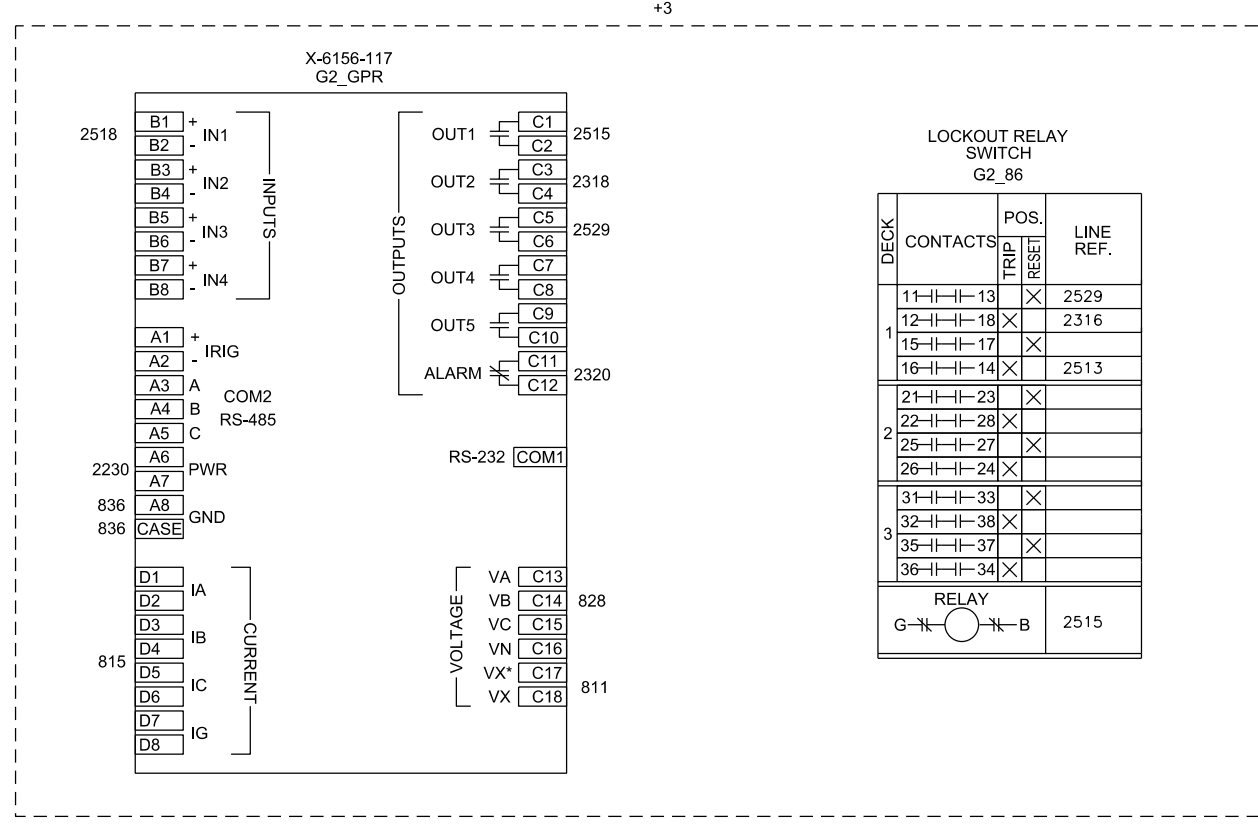
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> POWER SYSTEMS, KOHLER, WI 53044 U.S.A. <small>THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES NO.: ES-90645	ITEM	TITLE: C.B. SCHEMATIC GEN 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE: 1-5-10	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	SHEET: 25 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWG. NO. SGP-1350	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	PRINTED: SGP-1350 D	

SECTION/FUNCTION  
4

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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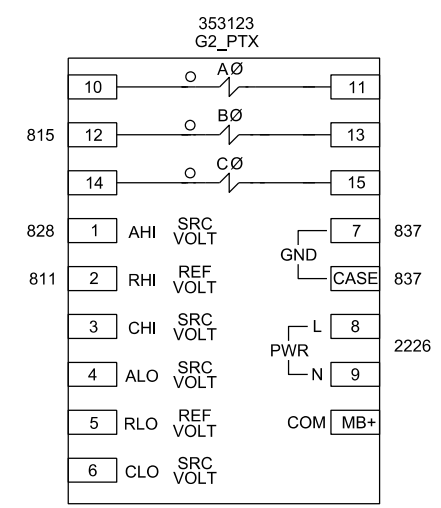
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LOCKOUT RELAY SWITCH  
G2\_86

DECK	CONTACTS	POS.		LINE REF.
		TRIP	RESET	
1	11-11-13	X		2529
	12-11-18	X		2316
	15-11-17	X		
	16-11-14	X		2513
2	21-11-23	X		
	22-11-28	X		
	25-11-27	X		
	26-11-24	X		
3	31-11-33	X		
	32-11-38	X		
	35-11-37	X		
	36-11-34	X		

RELAY  
G — B 2515



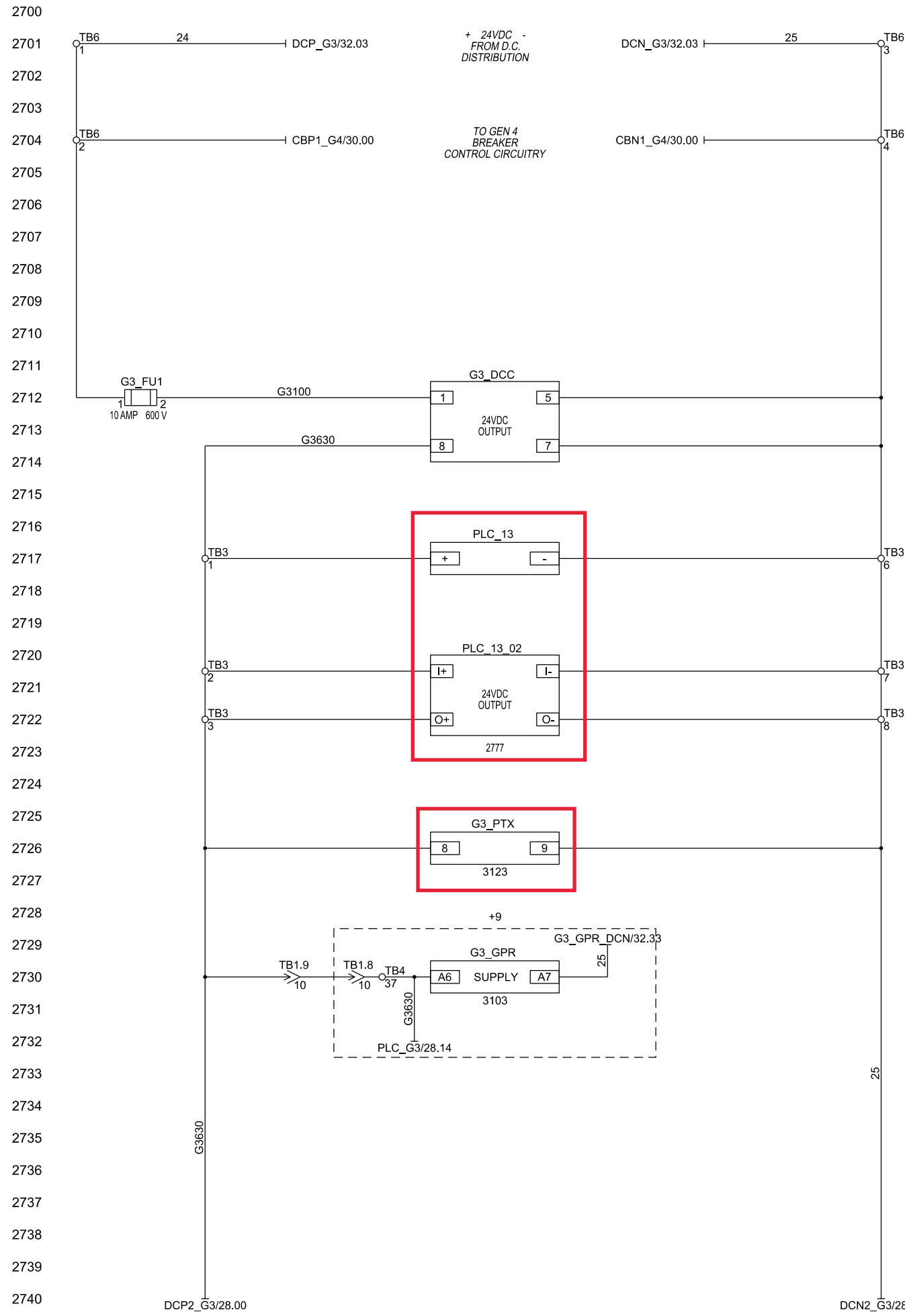
=646+1

ENGINE CONTROL SWITCH  
G2\_ECS

DECK	CONTACTS	POS.				LINE REF.
		OFF	AUTO	RUN OPEN	RUN CLSD	
1	1-1-2	X				2324
2	3-1-4	X				
3	5-1-6	X				2326
4	7-1-8	X				
5	9-1-10		X			2247
6	11-1-12		X			2328
7	13-1-14			X		
8	15-1-16			X		2330

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS GEN 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SHEET E 26 OF 179

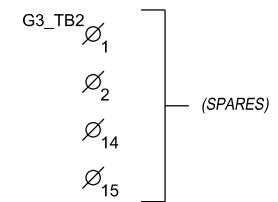
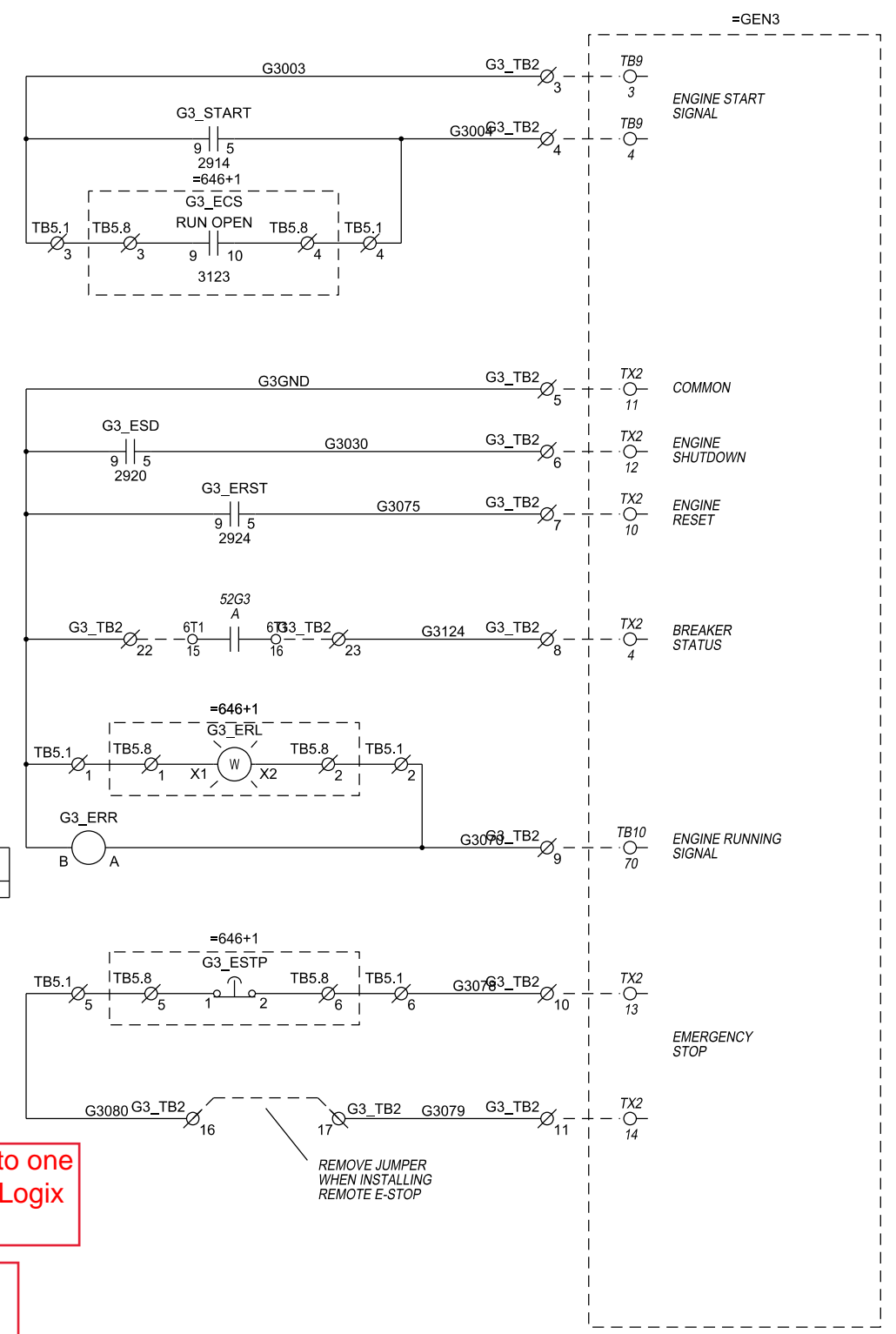
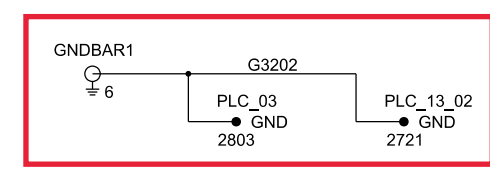
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED SGP-1350 D



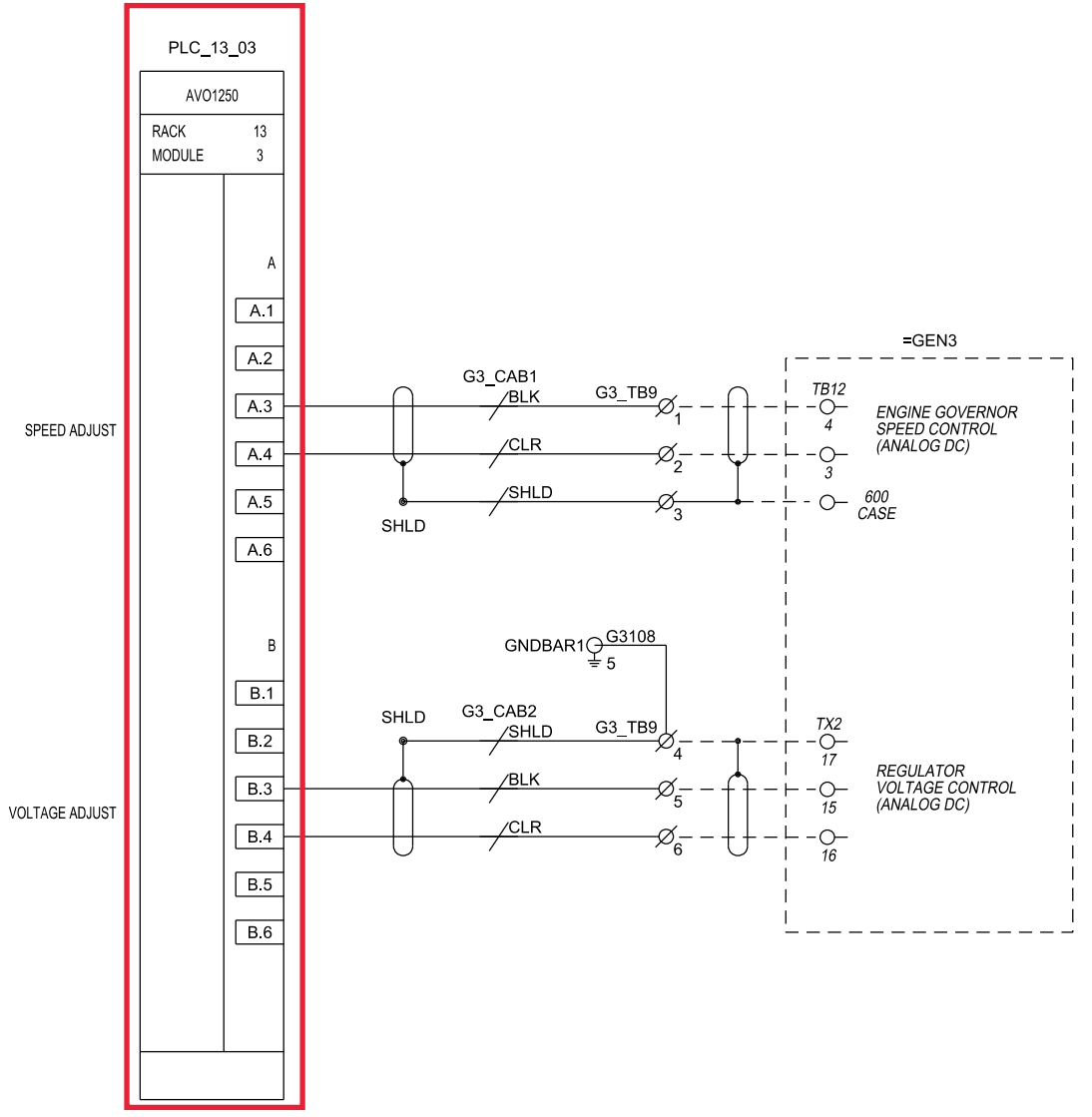
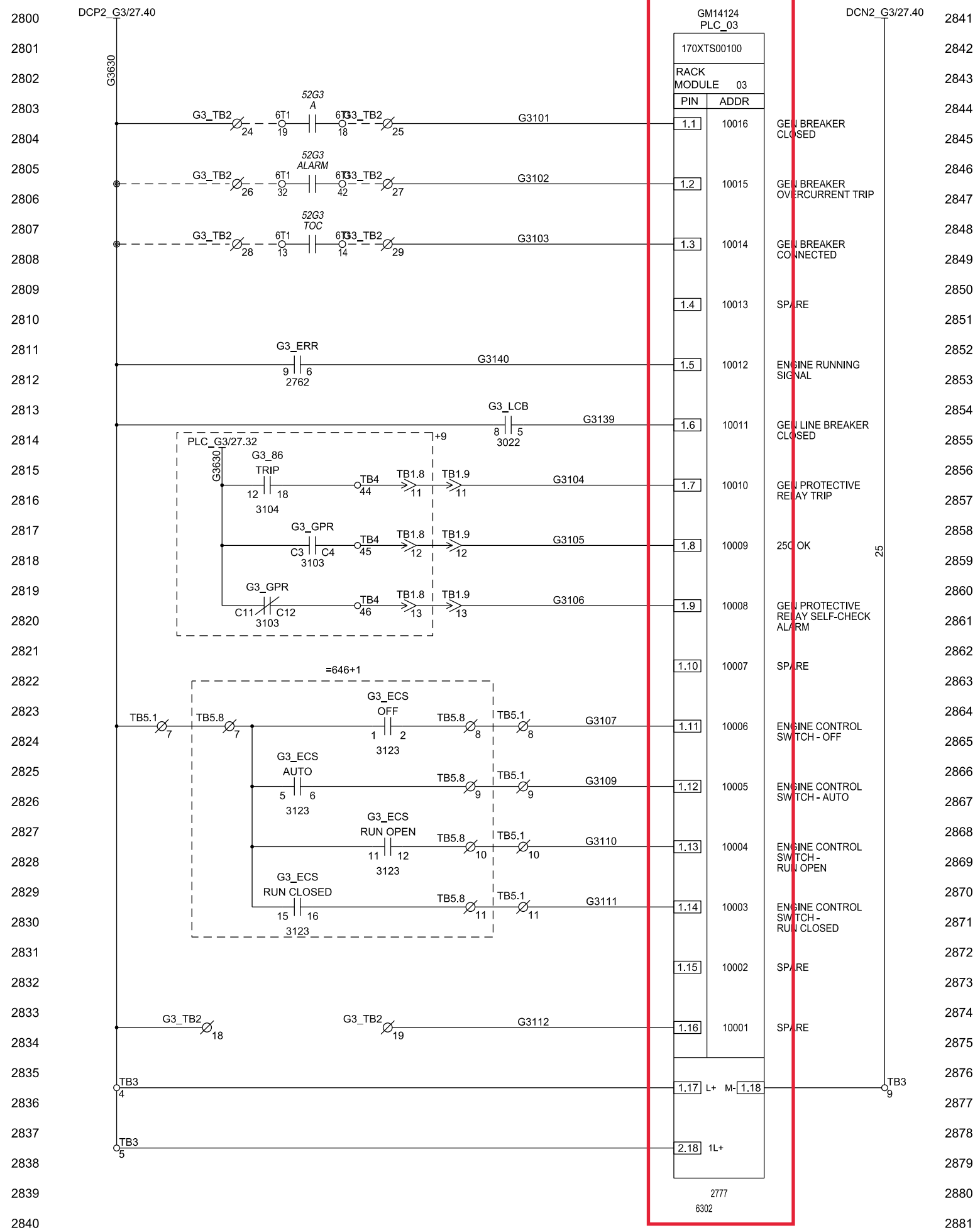
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Combine PLC\_03 and PLC\_13 into one PLC using Allen-Bradley CompacLogix

Replace existing G3\_PTX with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 3	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	SHEET 27 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWG. NO.	
SECTION/FUNCTION 8				APPROVED		SGP-1350	

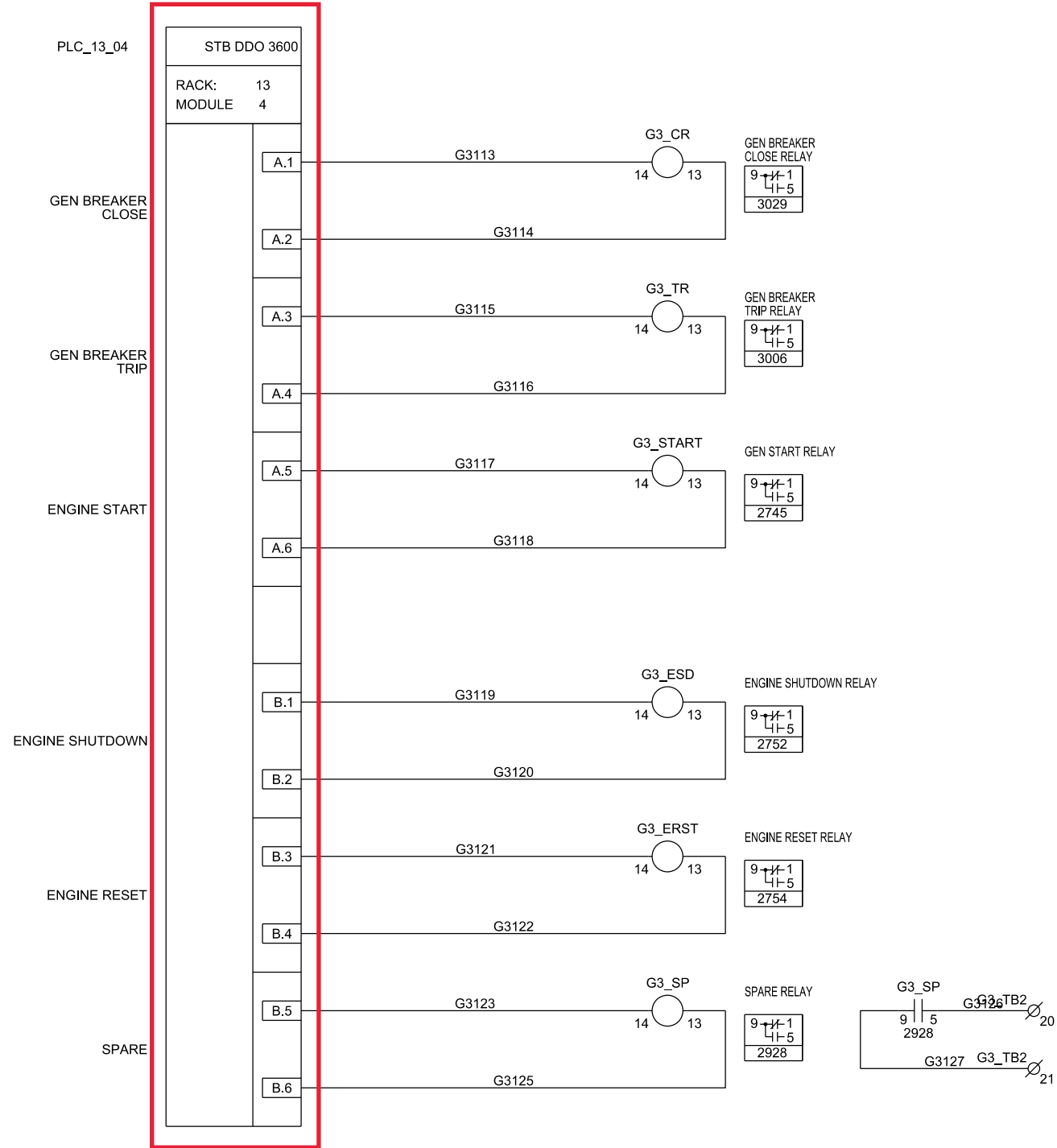


Combine PLC\_03 and PLC\_13 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 3	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	RTR	1-5-10	DWG. NO.	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	RMB	1-5-10	SHEET E 28 OF 179	
APPROVED				RMB	1-5-10	PRINTED	

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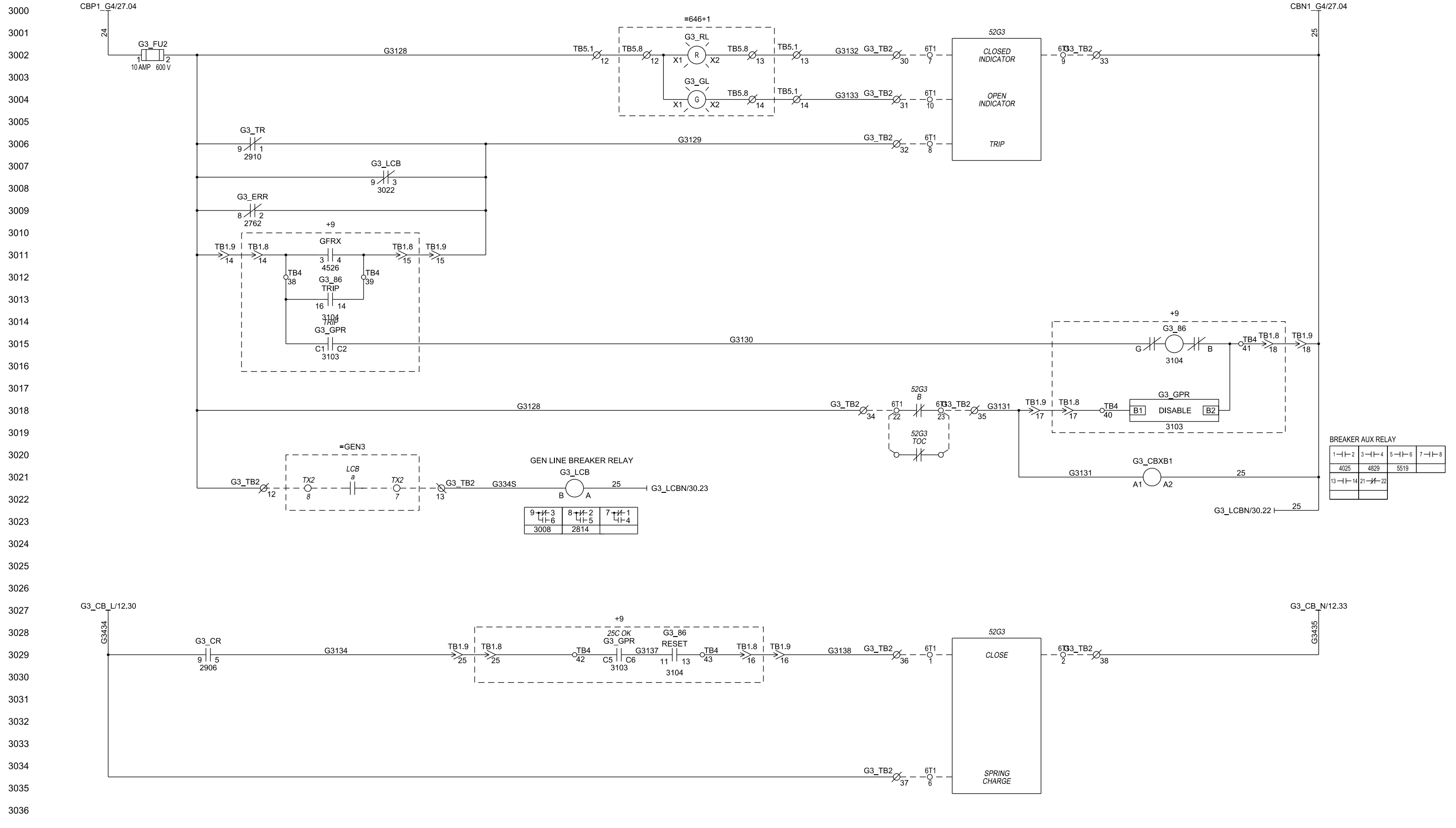


Combine PLC\_03 and PLC\_13 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 3	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET E 29 OF 179

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POWER SYSTEMS, KOHLER, WI 53044 U.S.A.  
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SCALE: 1:1  
DWG. NO.: SGP-1350  
SHEET E 29 OF 179



**BREAKER AUX RELAY**

1-1-2	3-1-4	5-1-6	7-1-8
4025	4829	5519	
13-1-14	21-1-22		

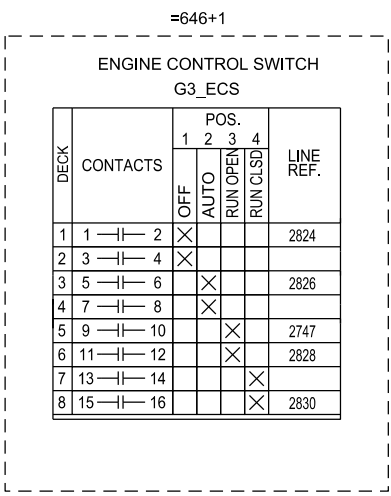
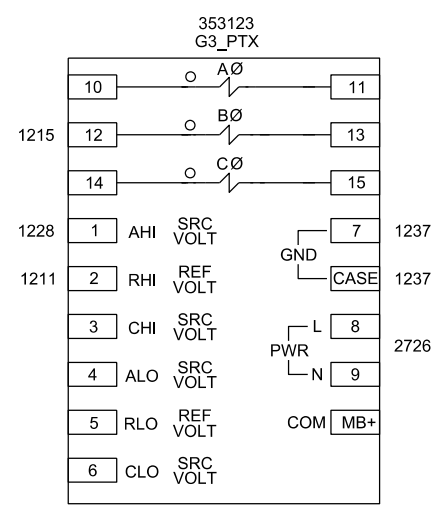
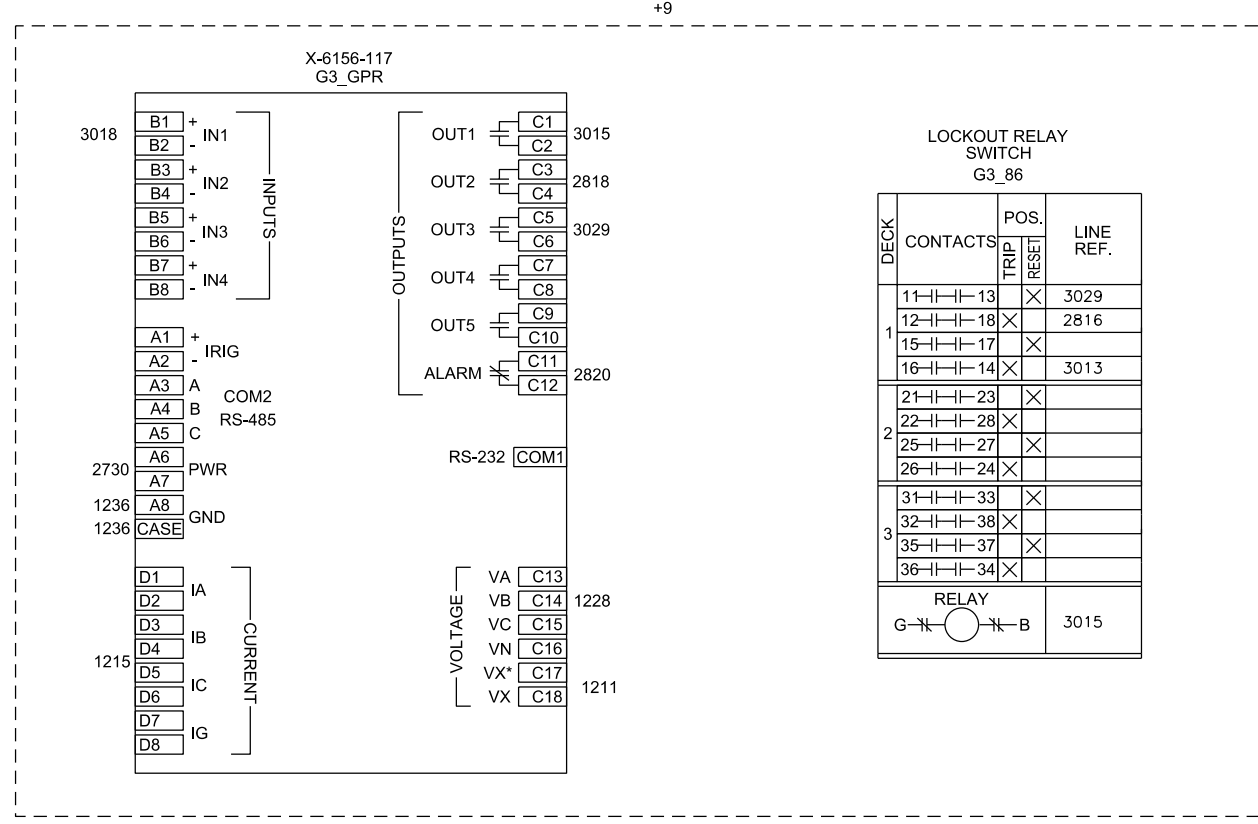
9-1-3	8-1-2	7-1-1
41-6	41-5	41-4
3008	2814	

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC GEN 3	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	DWG. NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	1-5-10	SHEET 30 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	1-5-10	PLOTTED	
SECTION/FUNCTION 8				APPROVED RMB		DWC NO. SGP-1350 D	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

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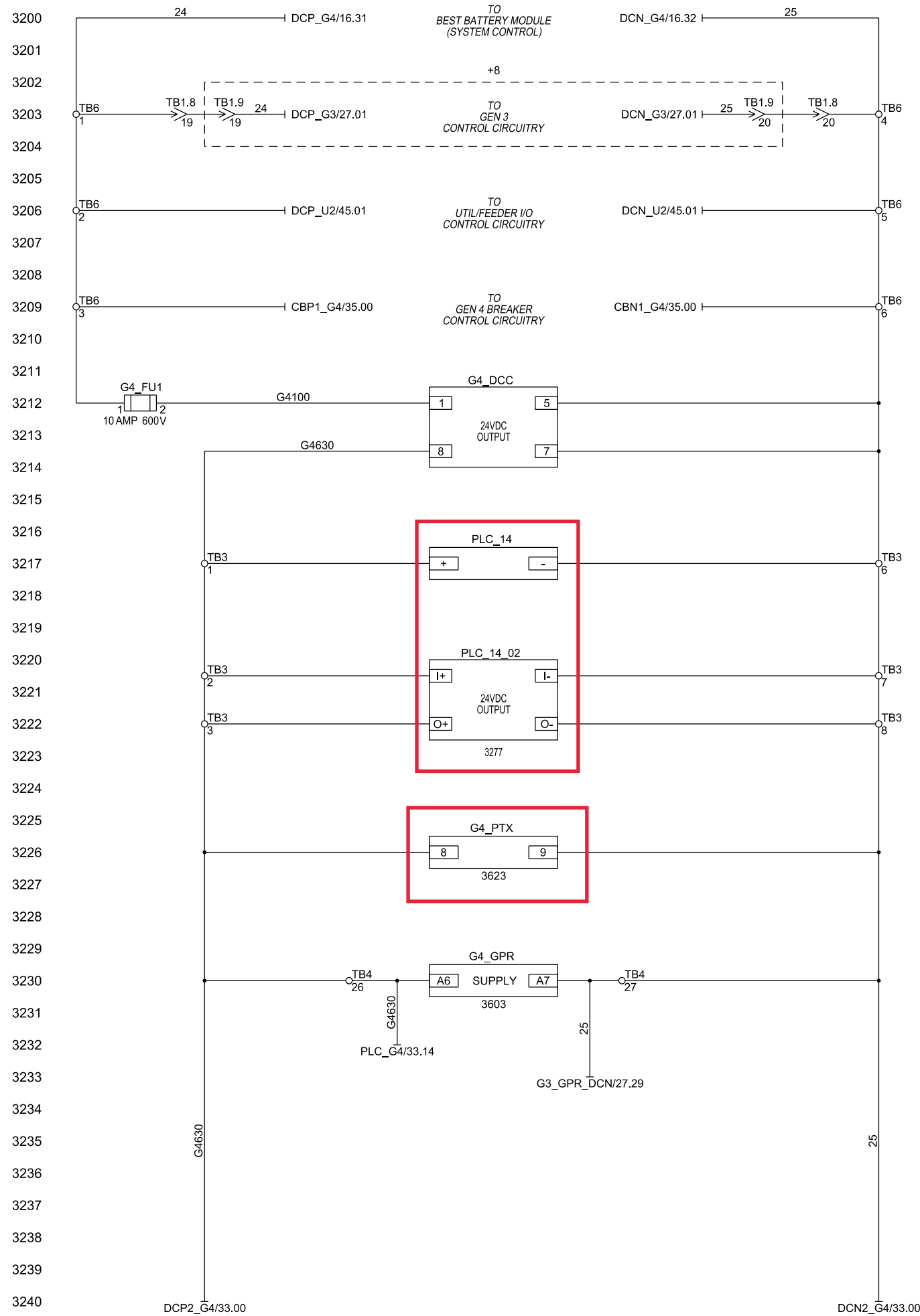
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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS GEN 3	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	DWG. NO.
C	7-21-10	AS BUILT [90178]	RTR	RMB	1-5-10	E 31 OF 179	SGP-1350
				RMB	1-5-10		D

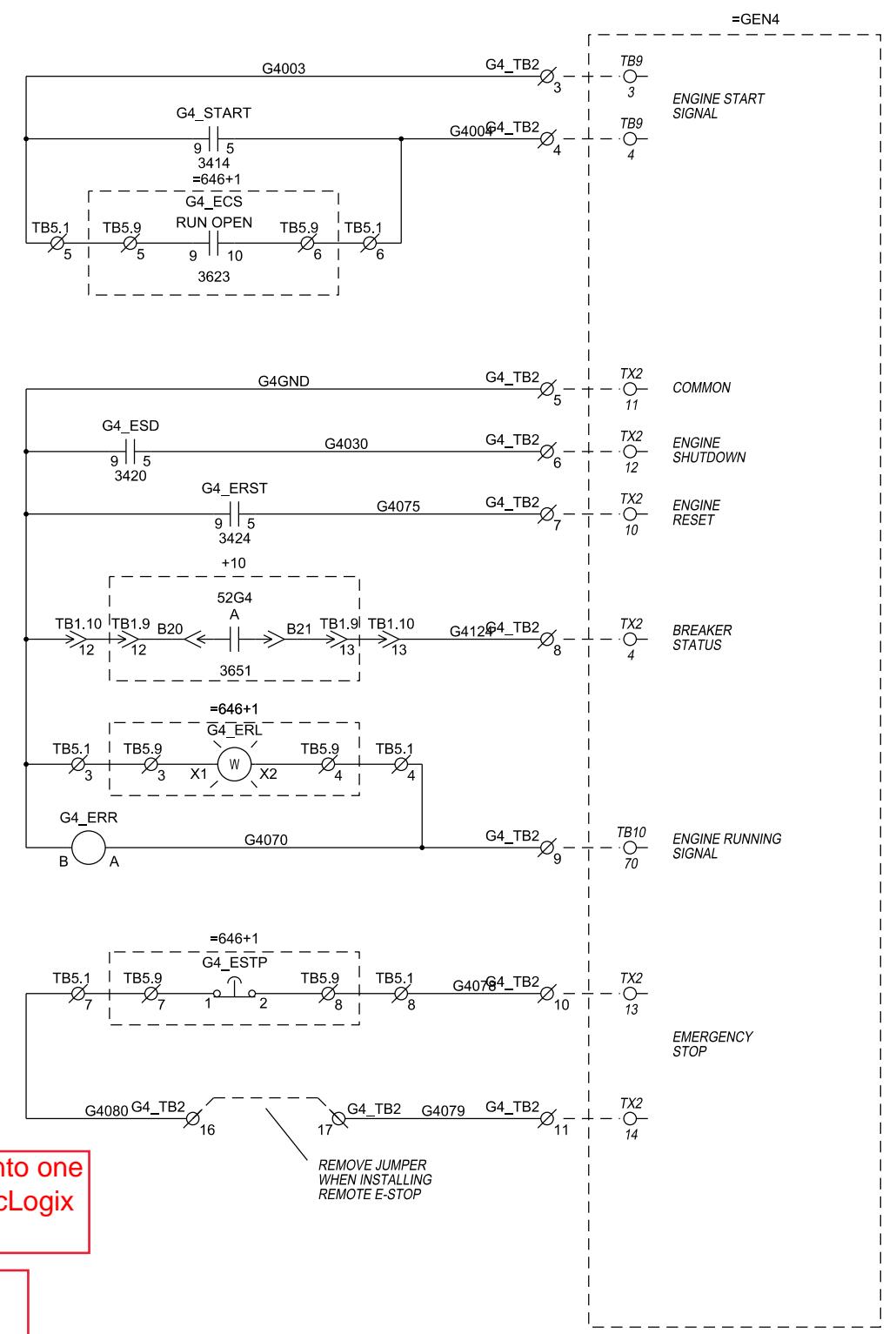
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED





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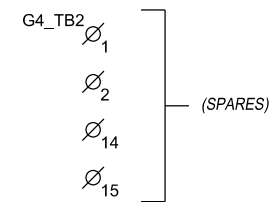
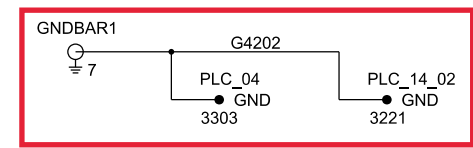


ENGINE RUNNING RELAY

9	8	7
3	2	1
6	5	4
3312	3507	6023

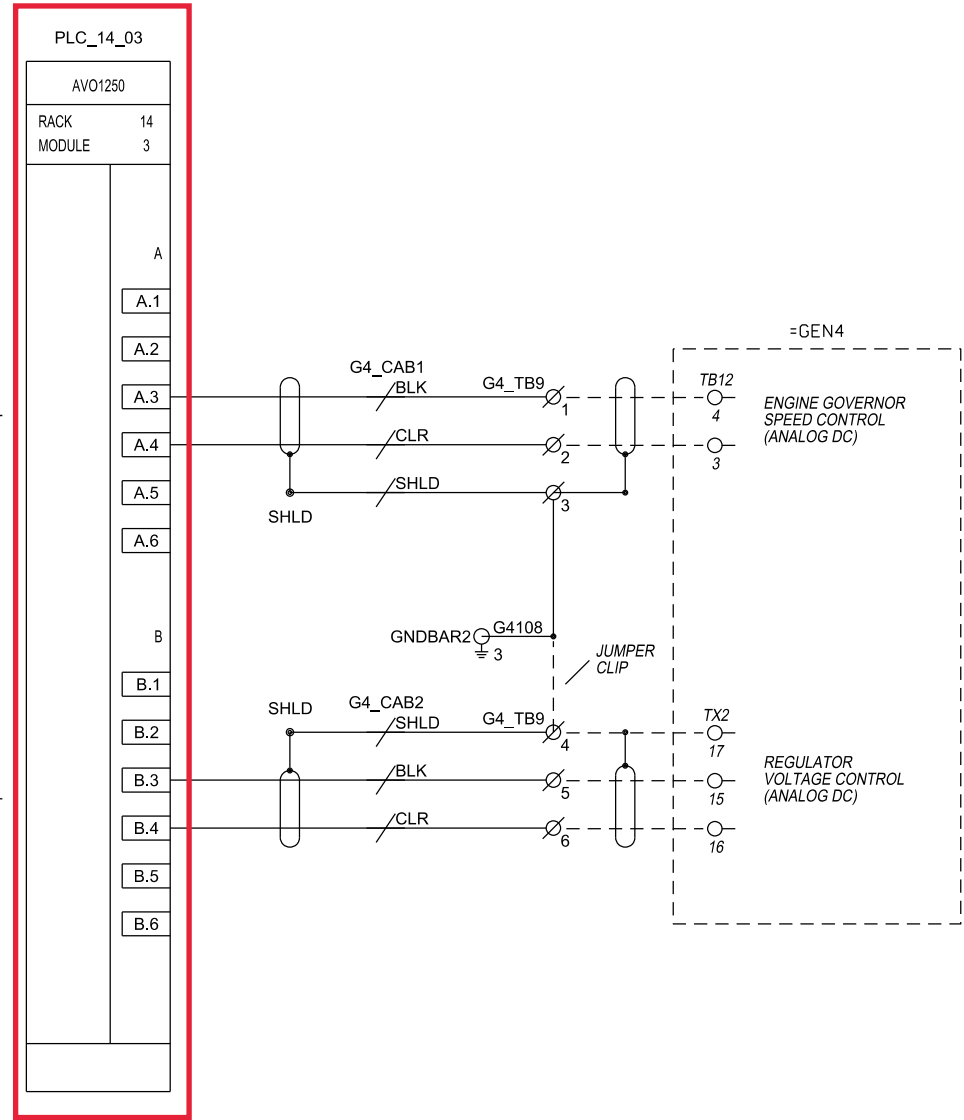
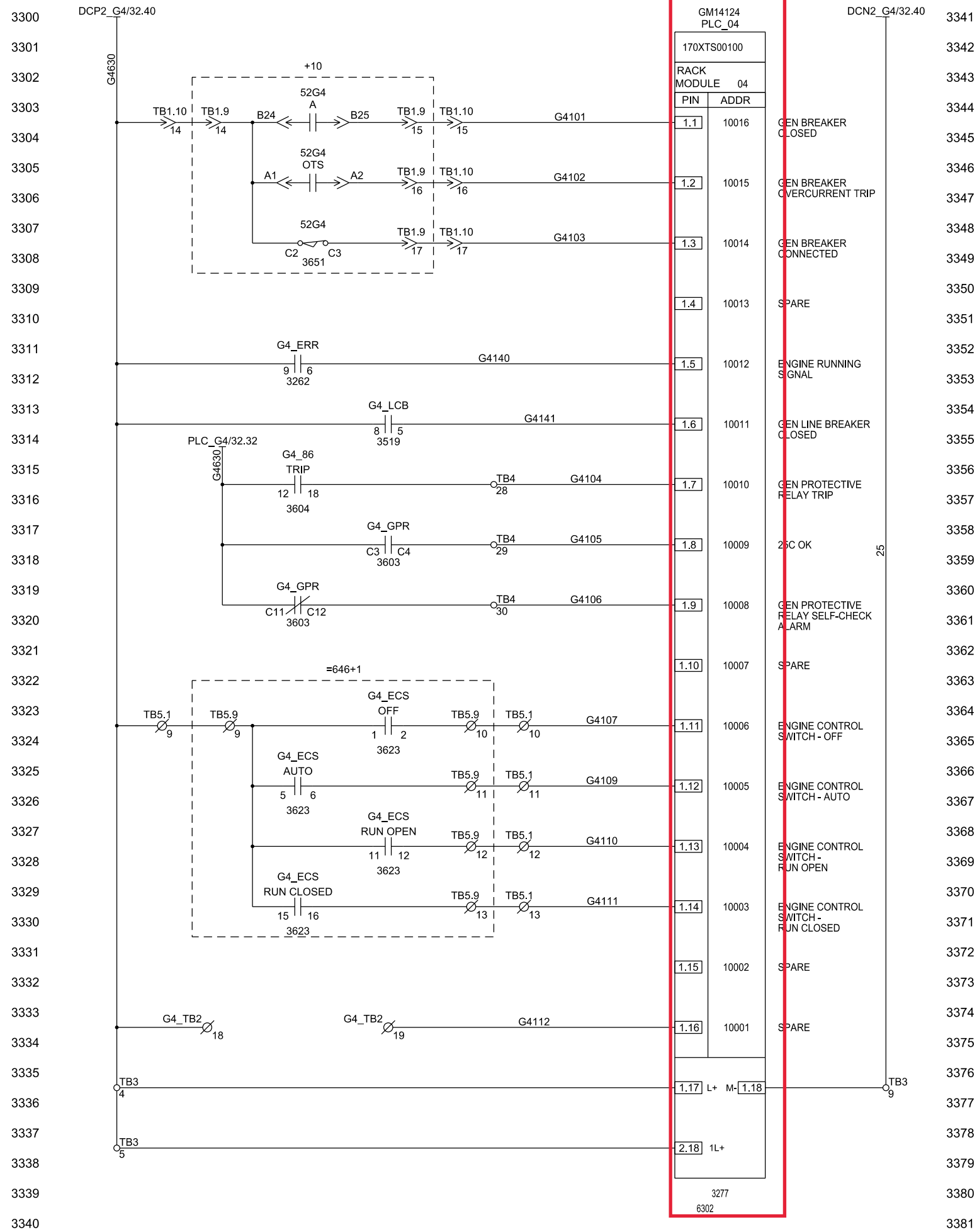
Combine PLC\_04 and PLC\_14 into one PLC using Allen-Bradley CompacLogix

Replace existing G4\_PTX with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		ES NO.: ES-90645		ITEM: SWGR		TITLE: D.C. SCHEMATIC GEN 4	
REV	DATE	REVISION	BY	APPROVALS	DATE	SCALE	CAD NO.	DWG. NO.	SHEET	E 32 OF 179			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR										
A	1-27-10	FOR APPROVAL [89286]	PJL										
B	5-14-10	FOR MANUFACTURING [89803]	RTR										
C	7-21-10	AS BUILT [90178]	RTR										
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM										
SECTION/FUNCTION 9				APPROVED RMB				1-5-10		PRINTED SGP-1350 D			

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

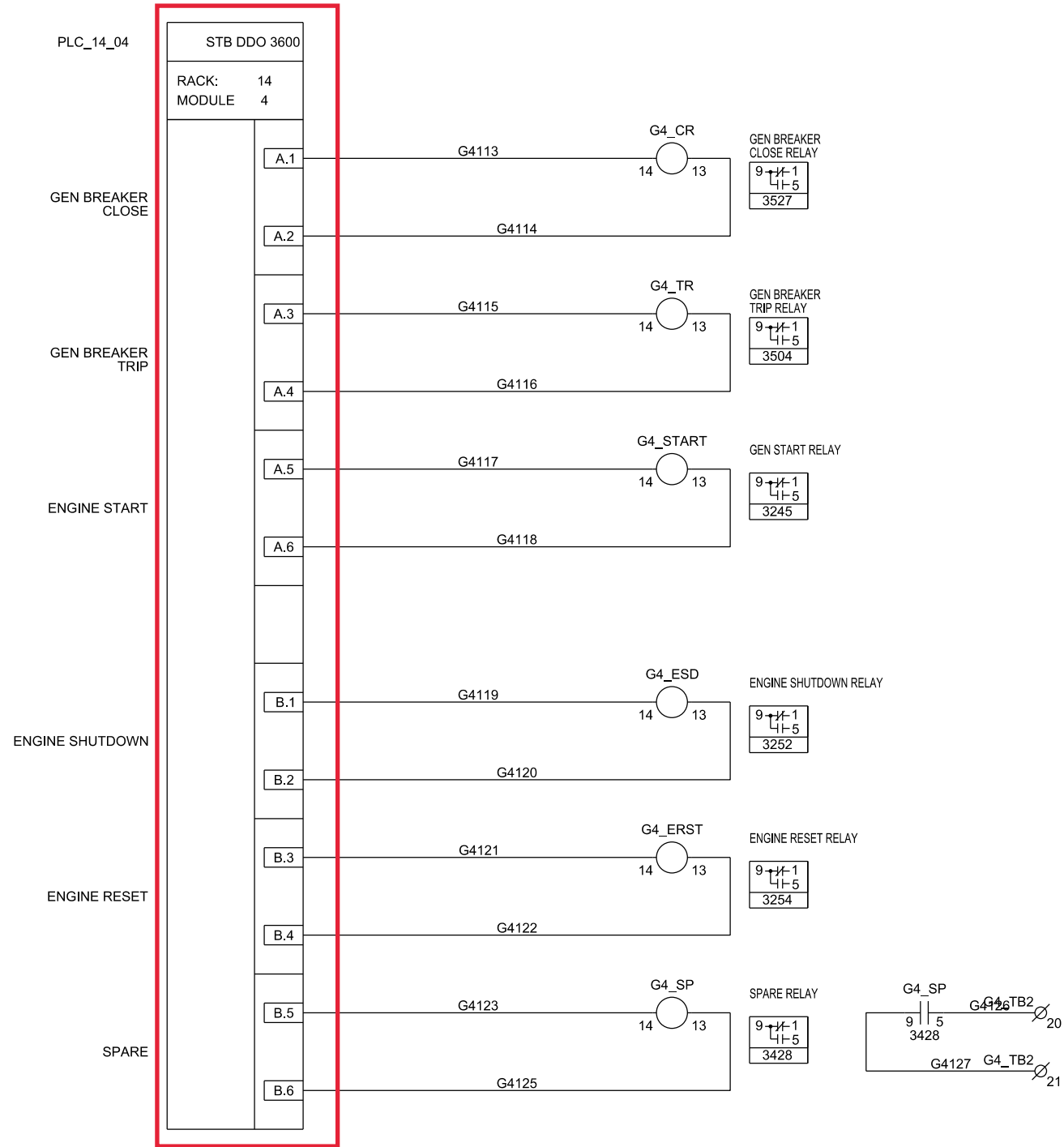


Combine PLC\_04 and PLC\_14 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 4	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWG. NO.	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	SHEET E 33 OF 179	
SECTION/FUNCTION 9				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SGP-1350 D	

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Combine PLC\_04 and PLC\_14 into one PLC using Allen-Bradley CompacLogix

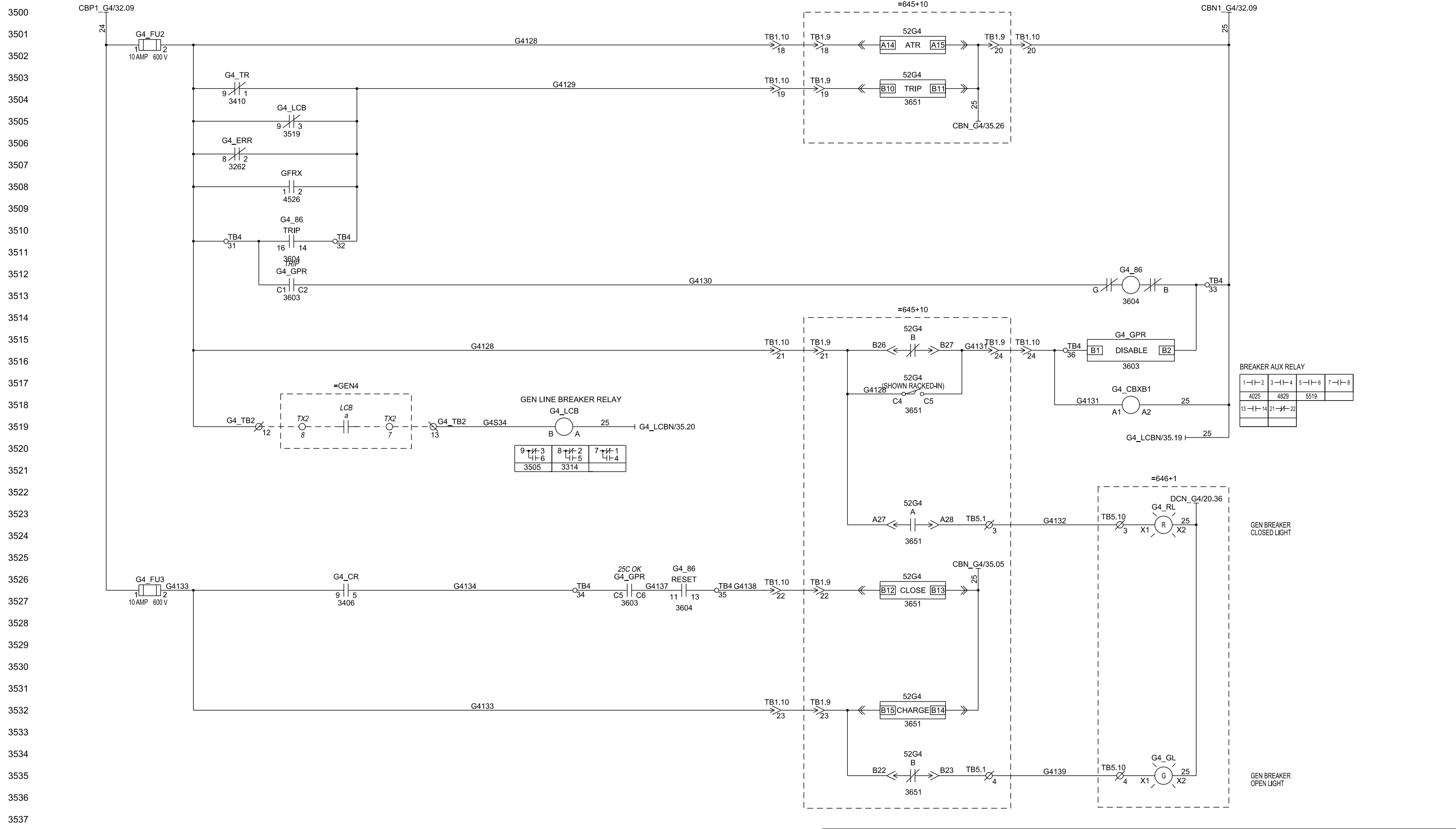
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC GEN 4	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET 34 OF 179

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SECTION/FUNCTION 9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D



BREAKER AUX RELAY

1-1-2	3-1-4	5-1-6	7-1-8
4025	4829	5519	
13-1-14	21-1-22		

9-1-3	8-1-2	7-1-1
4-1-6	4-1-5	4-1-4
3505	3314	

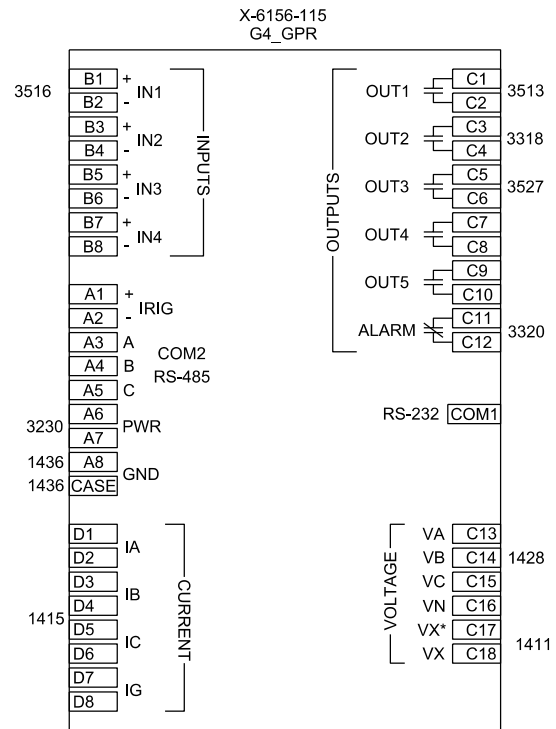
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC GEN 4	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	SHEET E 35 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWC NO.	

SECTION/FUNCTION 9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D

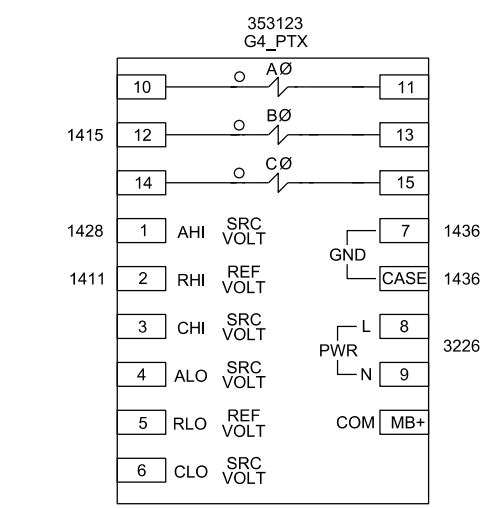
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LOCKOUT RELAY SWITCH  
G4\_86

DECK	CONTACTS	POS.		LINE REF.
		TRIP	RESET	
1	11-11-13	X		3527
	12-11-18	X		3316
	15-11-17	X		
	16-11-14	X		3511
2	21-11-23	X		
	22-11-28	X		
	25-11-27	X		
	26-11-24	X		
3	31-11-33	X		
	32-11-38	X		
	35-11-37	X		
	36-11-34	X		

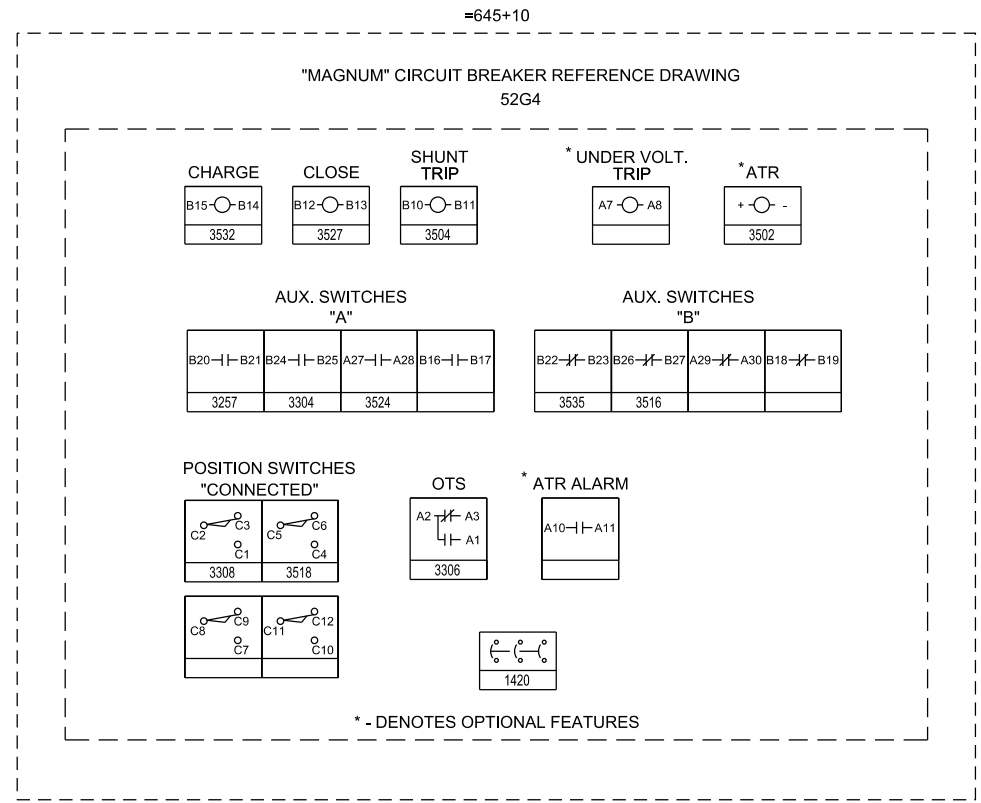
RELAY  
G - B 3513



ENGINE CONTROL SWITCH  
G4\_ECS

DECK	CONTACTS	POS.				LINE REF.
		OFF	AUTO	RUN OPEN	RUN CLSD	
1	1-1-2	X				3324
2	3-1-4	X				
3	5-1-6	X				3326
4	7-1-8	X				
5	9-1-10		X			3247
6	11-1-12		X			3328
7	13-1-14			X		
8	15-1-16			X		3330

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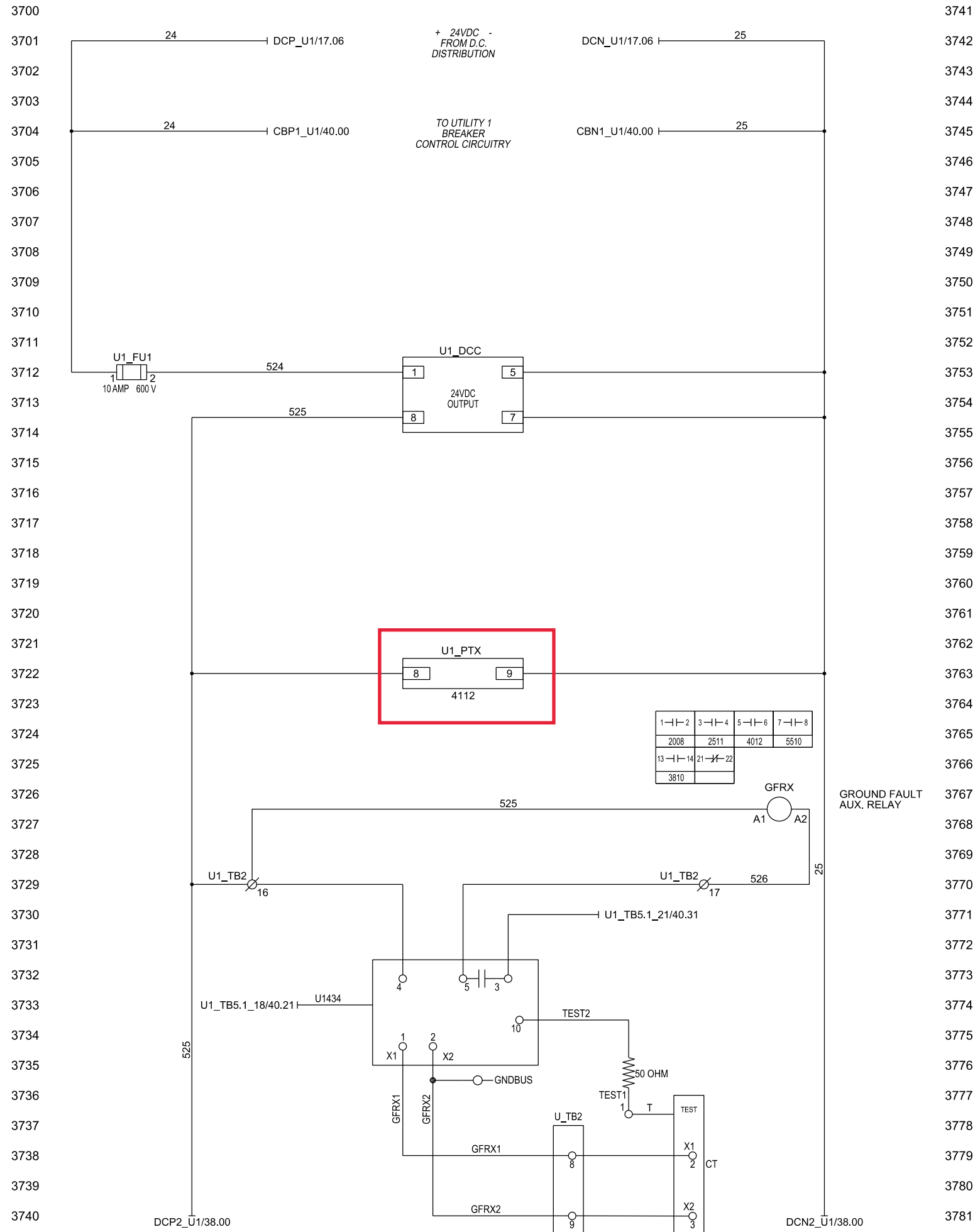


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

SECTION/FUNCTION	9	SCALE	CAD NO.	DWG. NO.	SHEET	E 36 OF 179
<p>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</p>			SGP-1350		D	

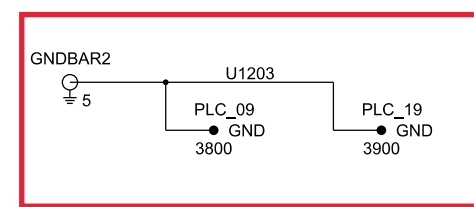
POWER SYSTEMS, KOHLER, WI 53044 U.S.A.  
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TITLE: MISC. REF. DRAWINGS GEN 4



Combine PLC\_09 and PLC\_19 into one PLC using Allen-Bradley CompacLogix

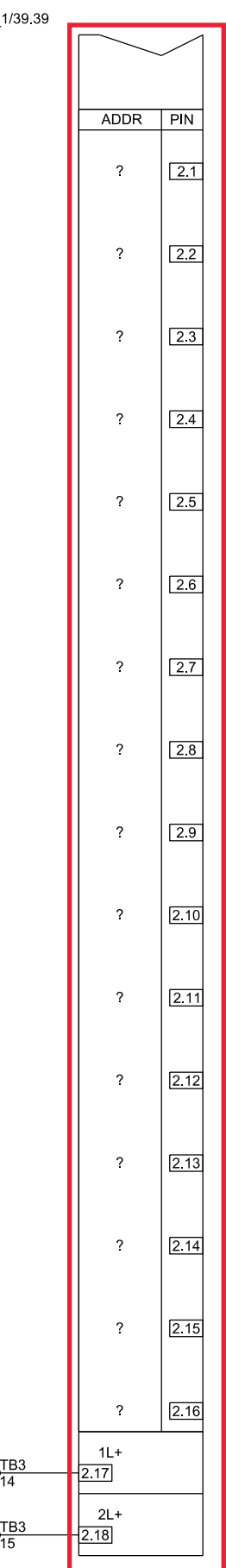
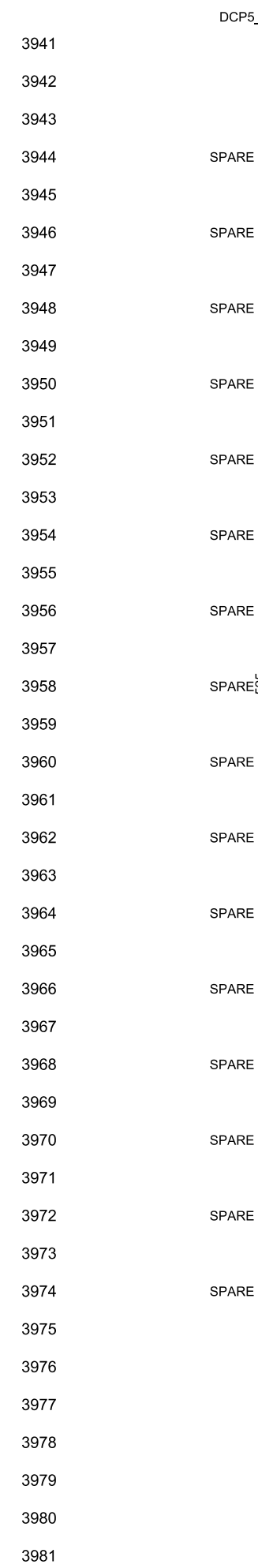
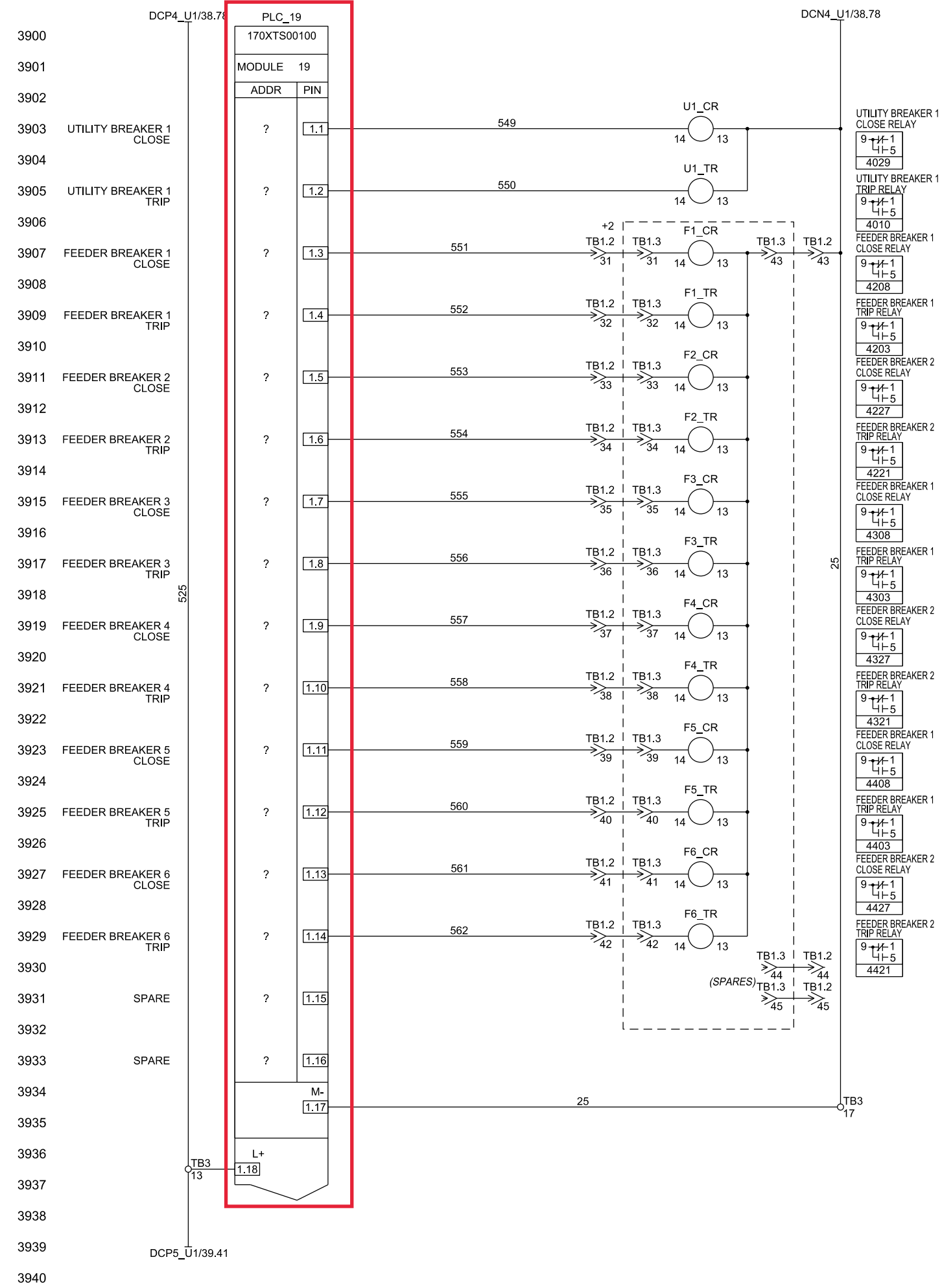
Replace existing U1\_PT with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR	D.C. SCHEMATIC UTILITY 1/FEEDERS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	SHEET	E 37 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PLOTTED
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.
SECTION/FUNCTION 3				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			
				SGP-1350   D			

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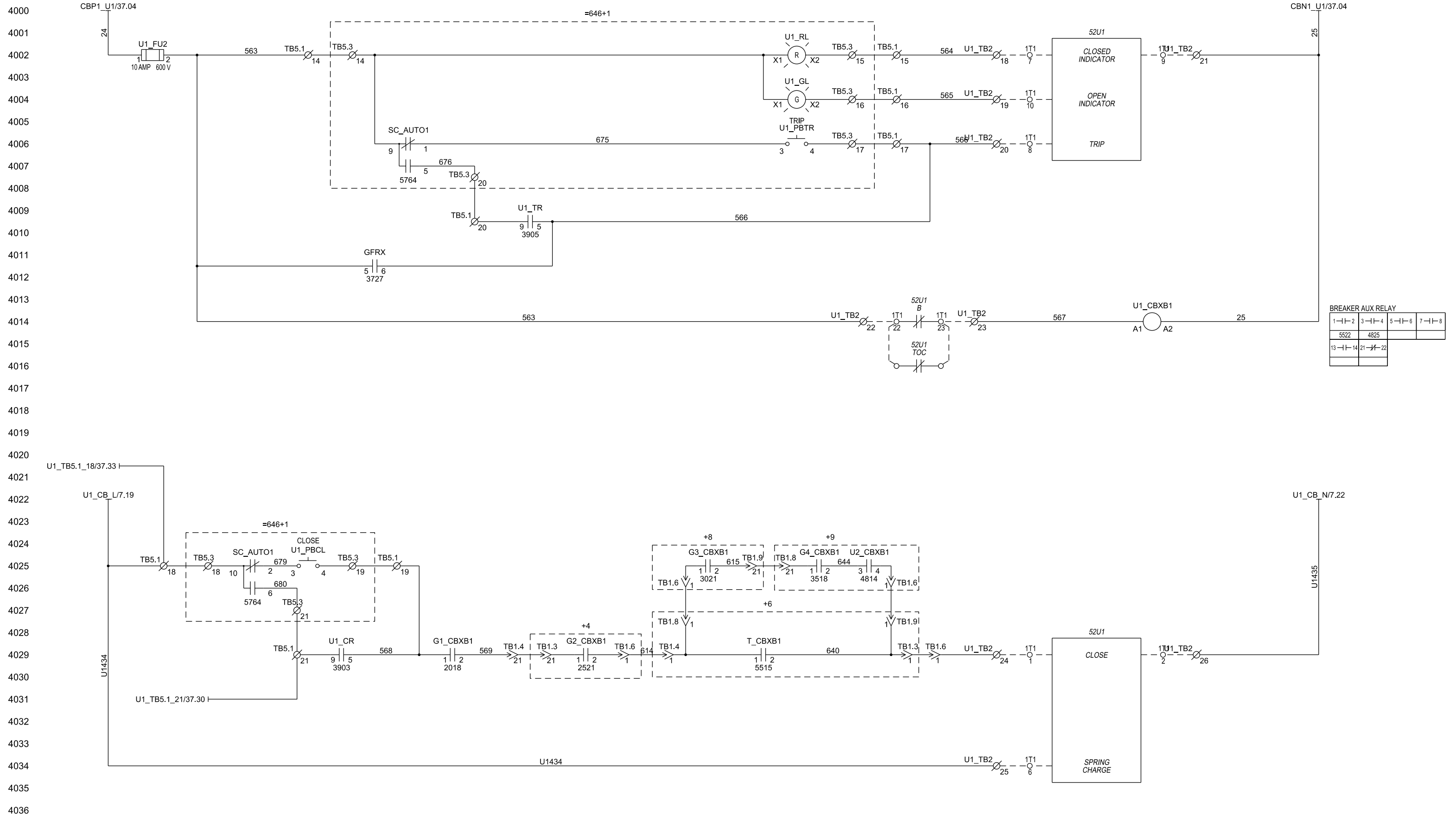


Combine PLC\_09 and PLC\_19 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.				
REV	DATE	REVISION	BY	ES NO.:	ITEM	<small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>				
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	TITLE: D.C. SCHEMATIC UTILITY 1/FEEDERS				
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE: CAD NO. SHEET: E 39 OF 179				
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	PLOTTED: DWG. NO. SGP-1350			
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	APPROVED: RMB			
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	<div style="text-align: center;"> <b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b> </div>			

SECTION/FUNCTION 3





**BREAKER AUX RELAY**

1-1-2	3-1-4	5-1-6	7-1-8
5522	4825		
13-1-14	21-1-22		

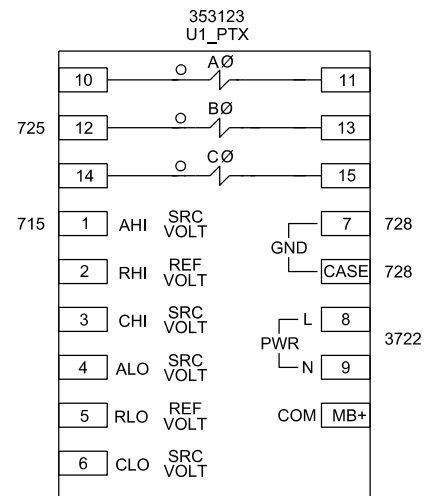
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC UTILITY 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET E 40 OF 179

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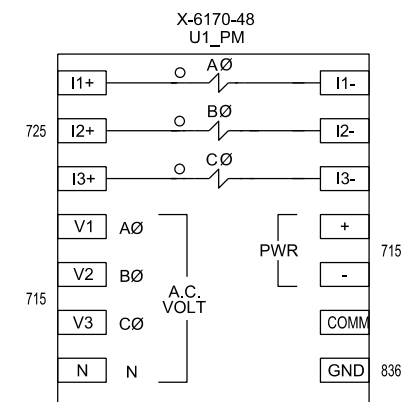
SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED SGP-1350 D

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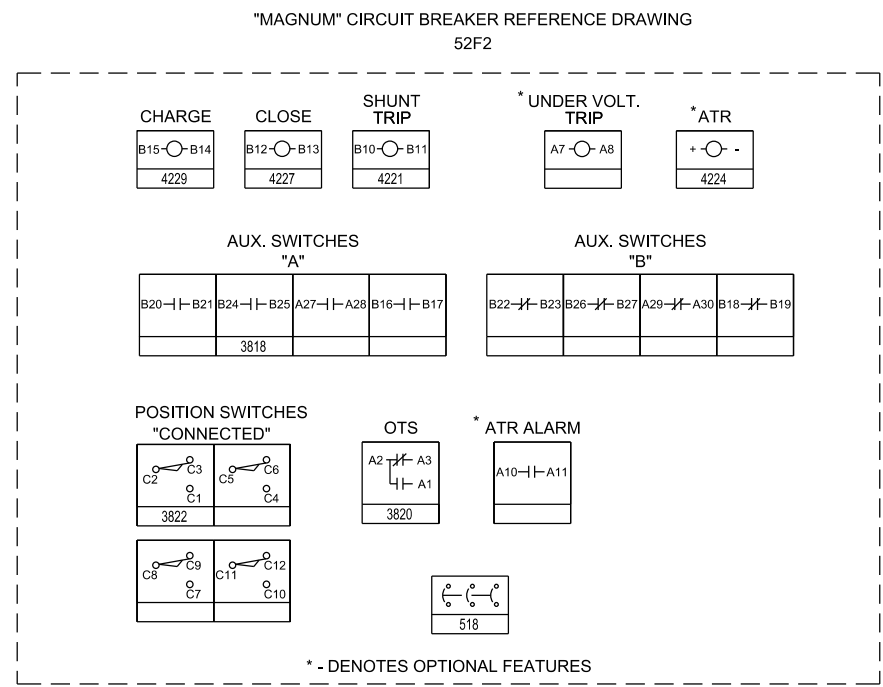
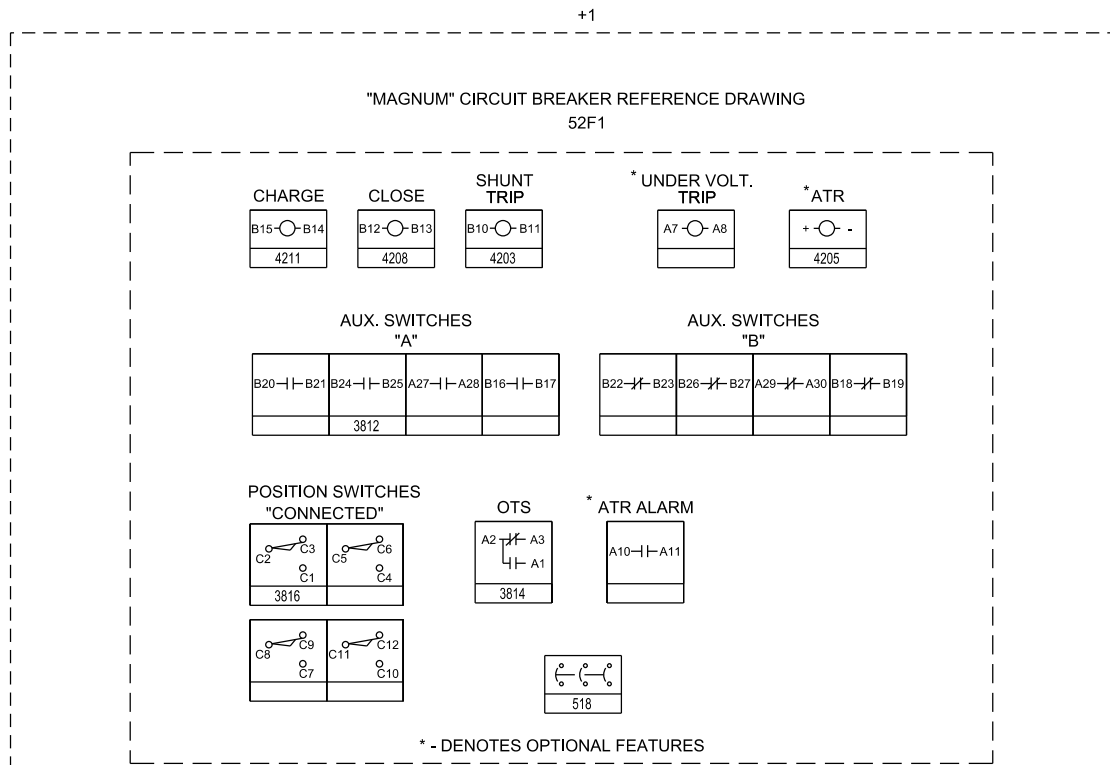
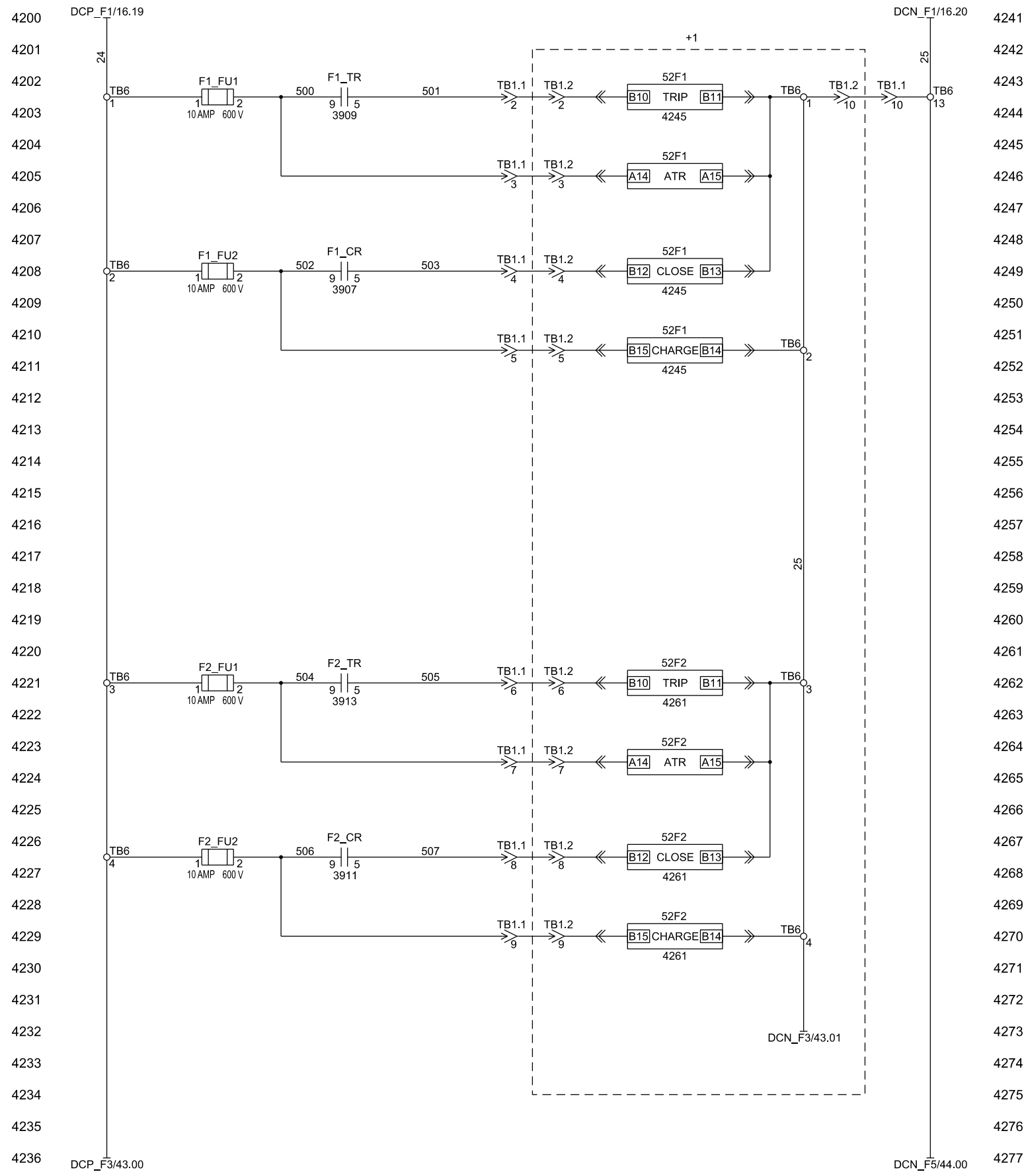


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS UTILITY 1	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SHEET 41 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

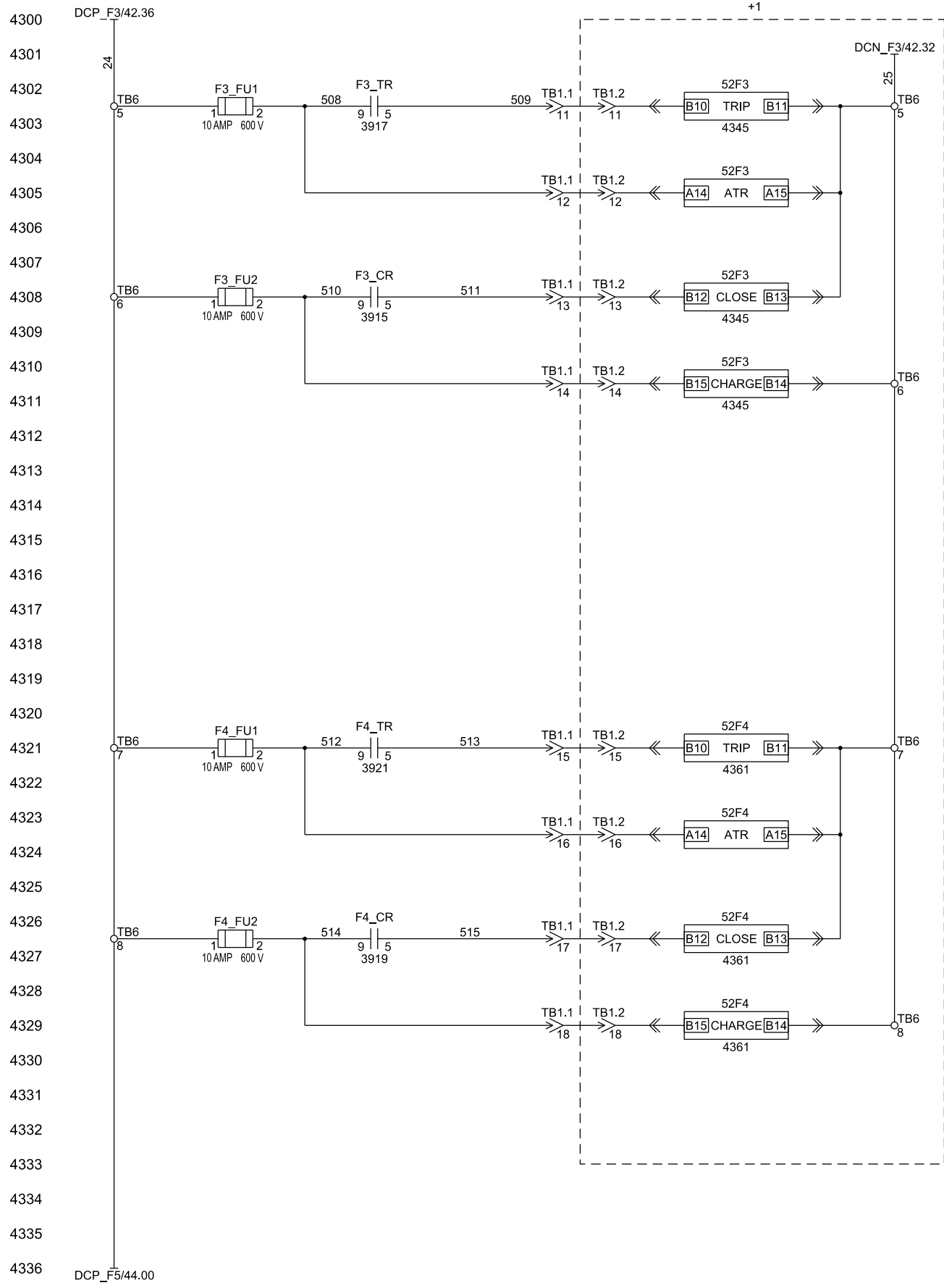
SGP-1350 | D



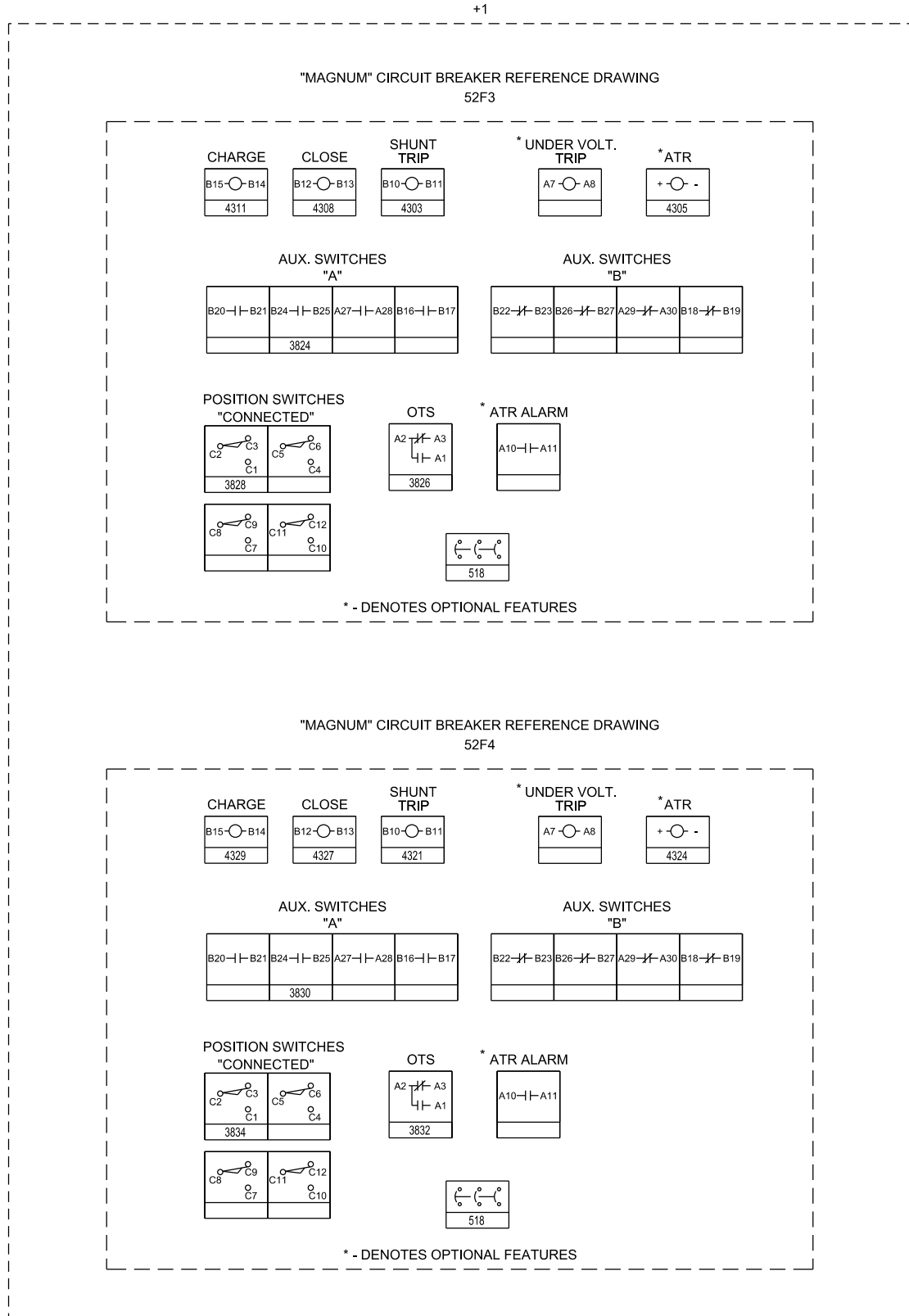
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC FEEDERS 1 & 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	SHEET E 42 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWG. NO. SGP-1350	

SECTION/FUNCTION  
2

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



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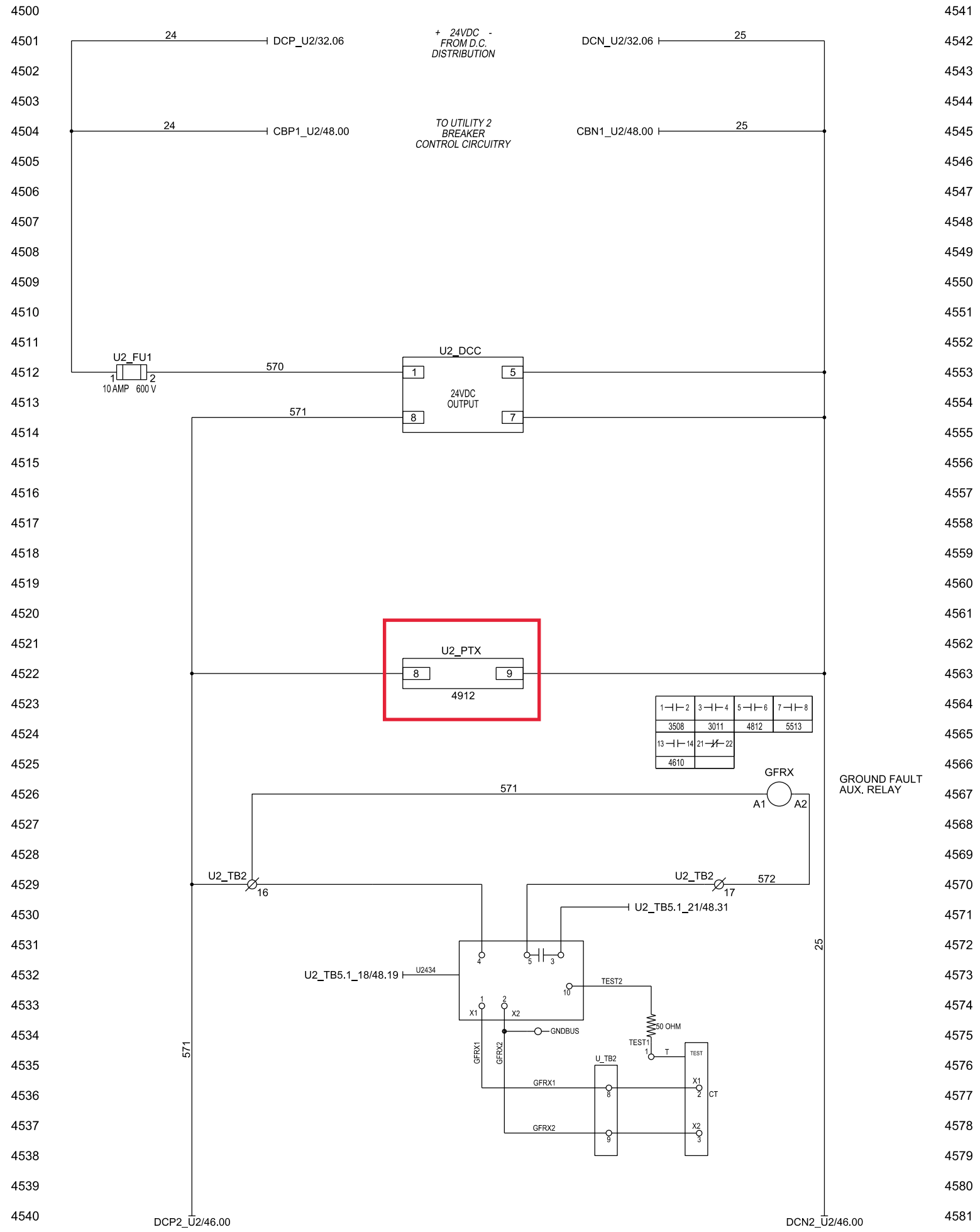
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

CAE GENERATED DRAWING		PROJECT NO.:	SGP-1350
PROJECT NAME:		PANAMA CITY BEACH AWT EXP.	
ES NO.:	ES-90645	ITEM	SWGR
APPROVALS	DATE		
DRAWN	RTR	1-5-10	
CHECKED	RMB	1-5-10	
APPROVED	RMB	1-5-10	

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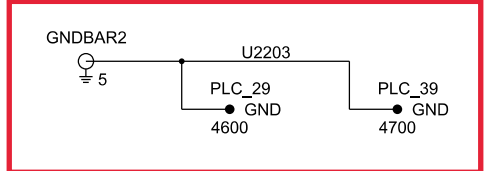
TITLE: C.B. SCHEMATIC FEEDERS 3 & 4  
SCALE: 1-5-10  
SHEET: 43 OF 179  
DWC NO. SGP-1350





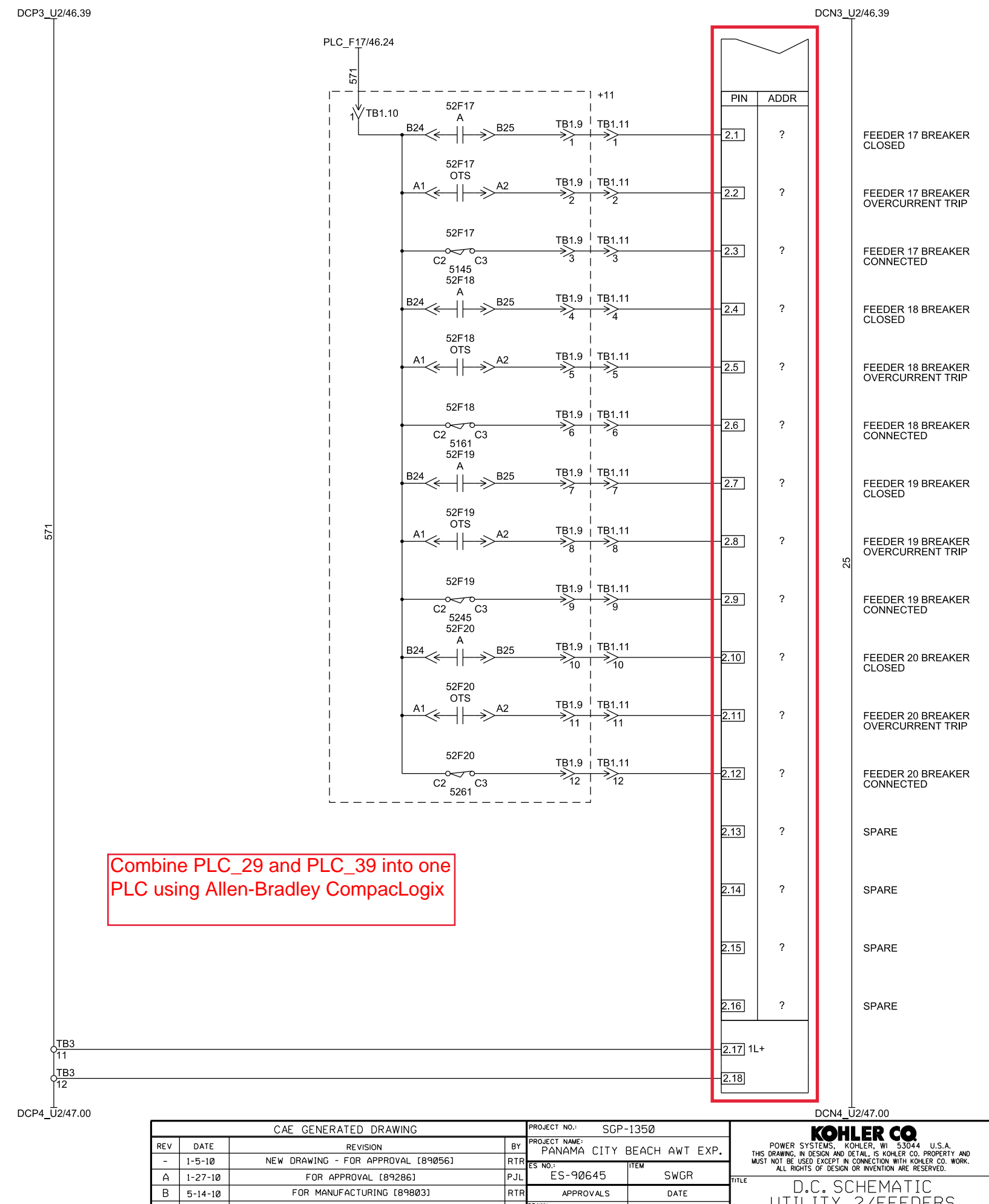
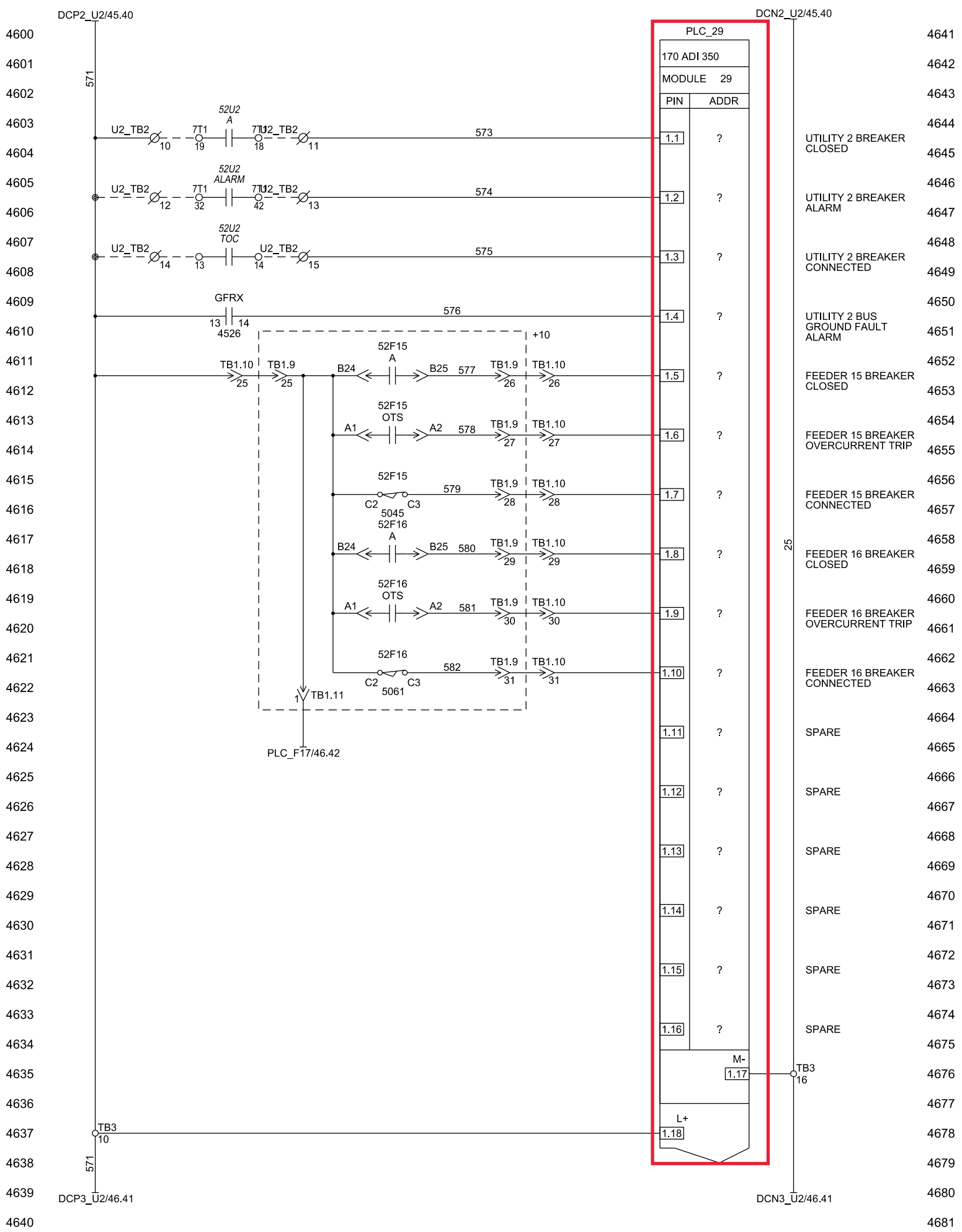
Combine PLC\_29 and PLC\_39 into one PLC using Allen-Bradley CompacLogix

Replace existing U2\_PT with unit that can communicate Modbus RTU Slave.



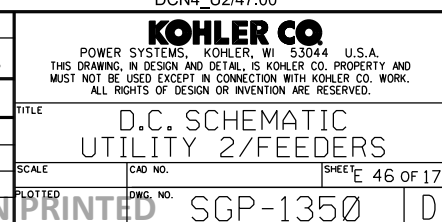
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB 1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB 1-5-10

		<small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
		<b>TITLE</b> D.C. SCHEMATIC UTILITY 2/FEEDERS	
SCALE	CAD NO.	SHEET E 45 OF 179	
PLOTTED	DWG. NO.	SGP-1350	

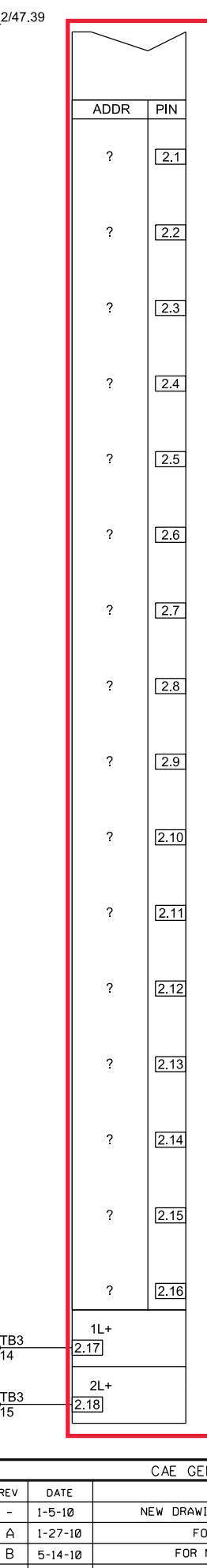
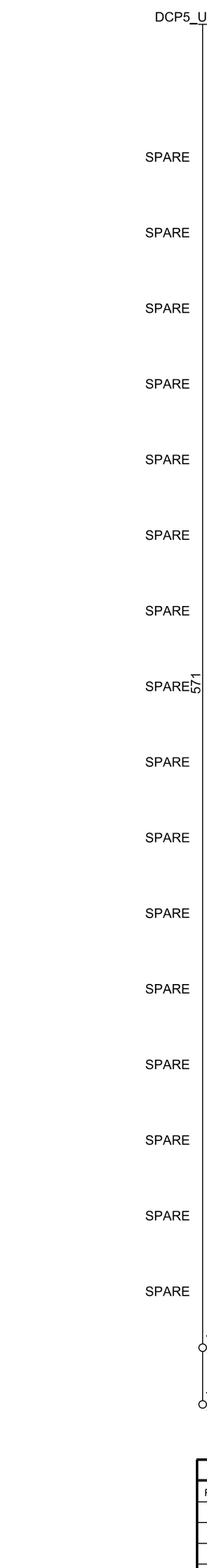
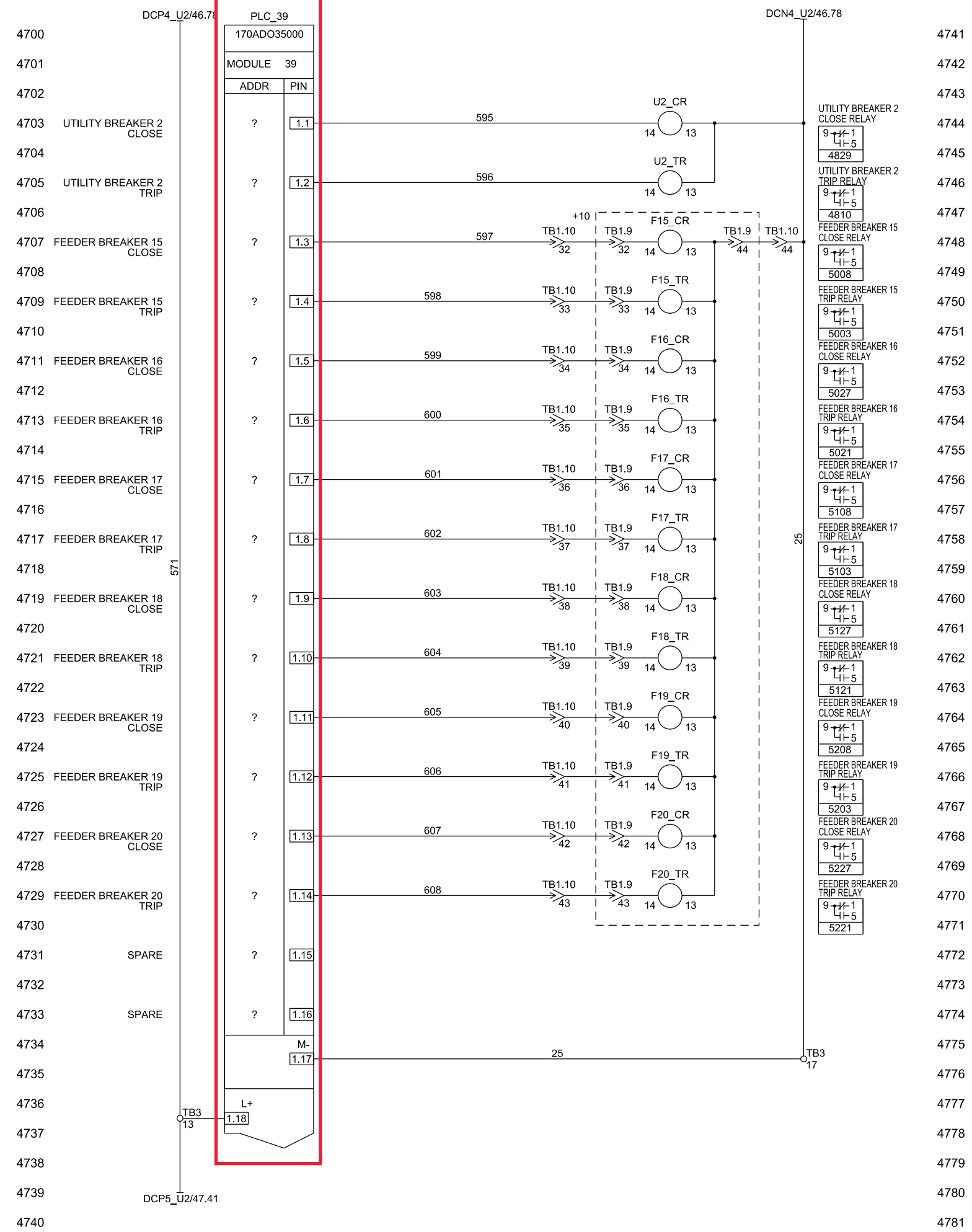


Combine PLC\_29 and PLC\_39 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	DATE	TITLE
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR		D.C. SCHEMATIC UTILITY 2/FEEDERS
A	1-27-10	FOR APPROVAL [89286]	PJL				
B	5-14-10	FOR MANUFACTURING [89803]	RTR				
C	7-21-10	AS BUILT [90178]	RTR				
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM				
APPROVED			RMB	1-5-10	SCALE		
CHECKED			RMB	1-5-10	CAD NO.		
DRAWN			RTR	1-5-10	SHEET E 46 OF 179		
DESIGNED			RTR	1-5-10	PLOTTED		
SECTION/FUNCTION			9	DWG. NO.			SGP-1350



PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



Combine PLC\_29 and PLC\_39 into one PLC using Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC UTILITY 2/FEEDERS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	PRINTED

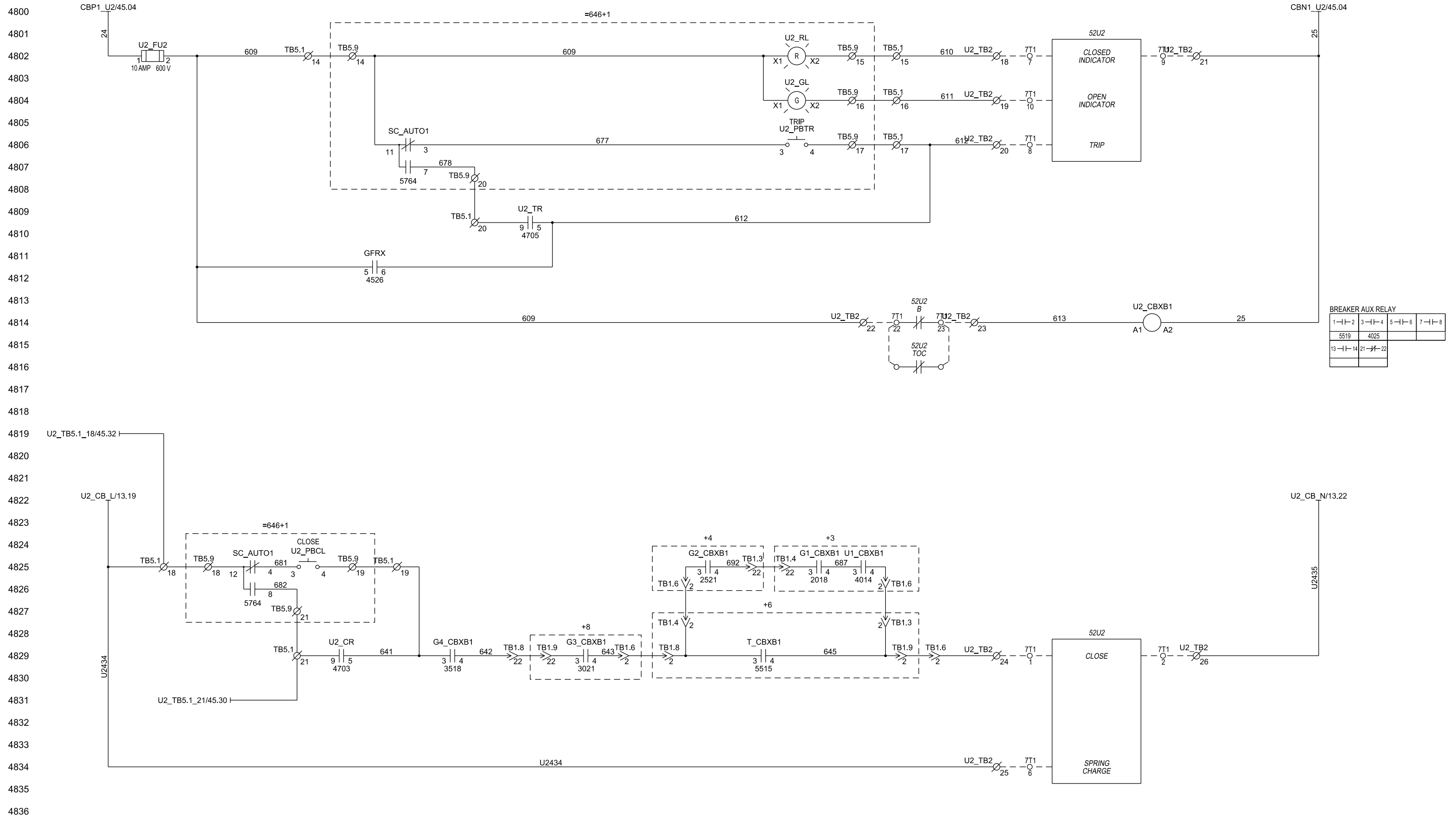
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D

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SHEET 47 OF 179





BREAKER AUX RELAY

1-1-2	3-1-4	5-1-6	7-1-8
5519	4025		
13-1-14	21-1-22		

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC UTILITY 2	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET 48 OF 179

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D

4819 U2\_TB5.1\_18/45.32

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4822 U2\_CB\_L/13.19

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4829 U2\_CR

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4831 U2\_TB5.1\_21/45.30

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4834 U2434

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4822 U2\_CB\_N/13.22

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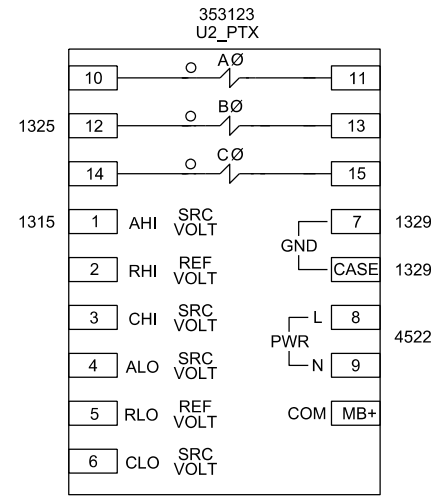
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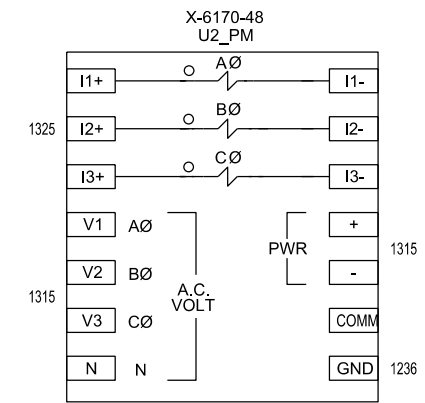
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SECTION/FUNCTION  
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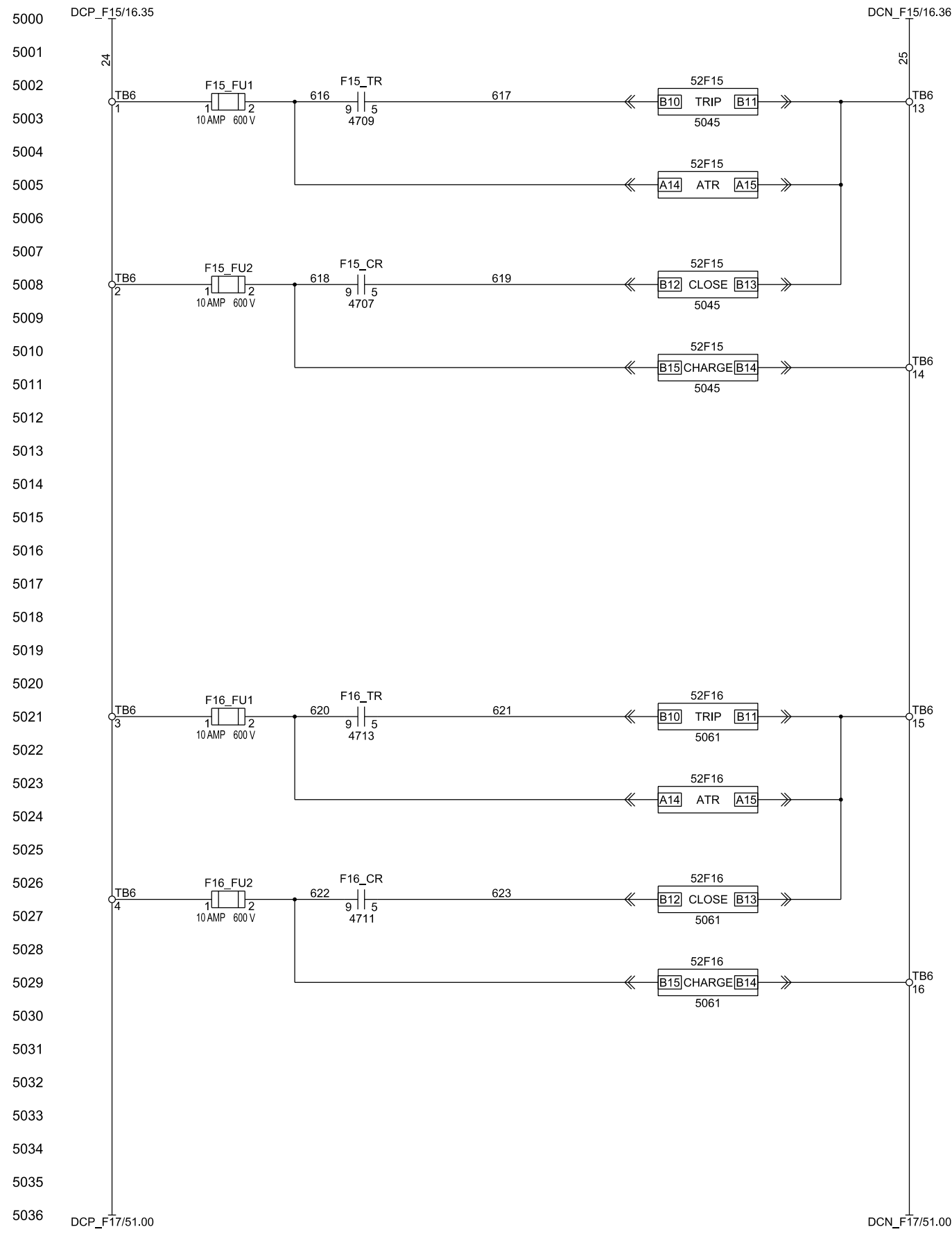
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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS			
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	UTILITY 2			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SCALE	CAD NO.	SHEET 49 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PLOTTED	DWG. NO.	SGP-1350
				APPROVED	RMB	1-5-10	PRINTED		

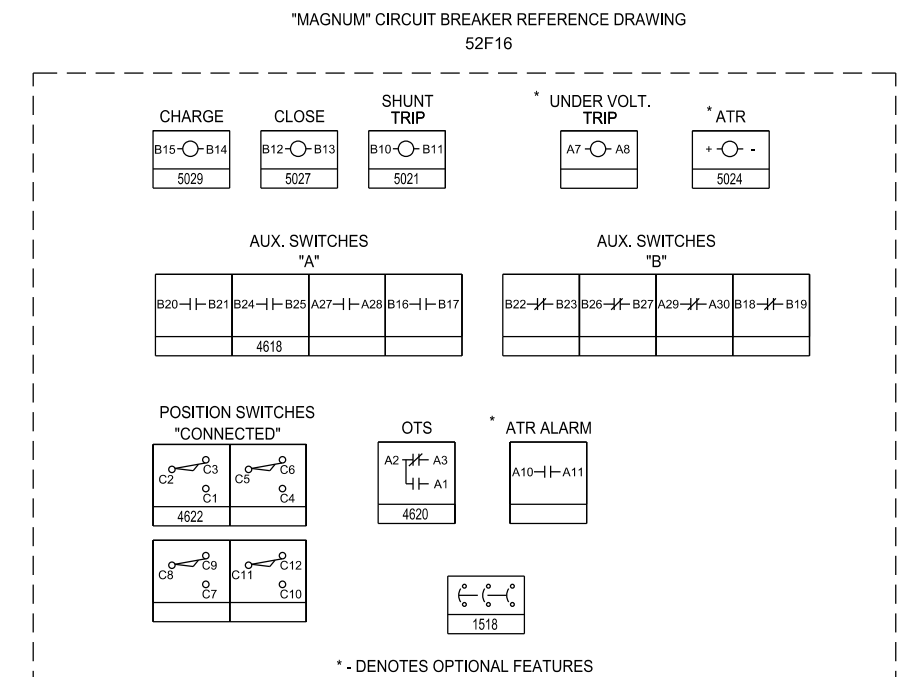
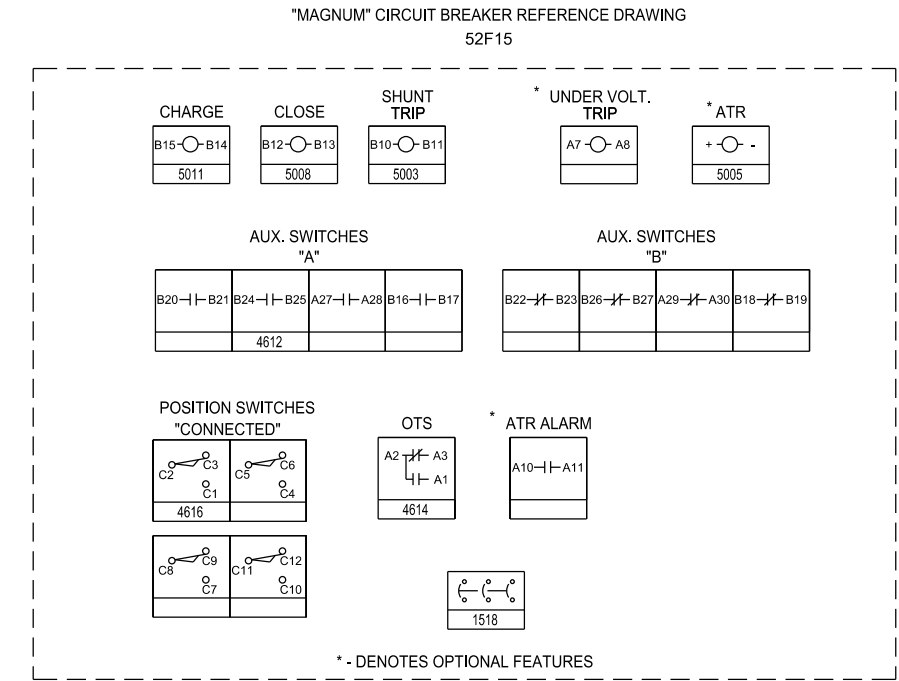
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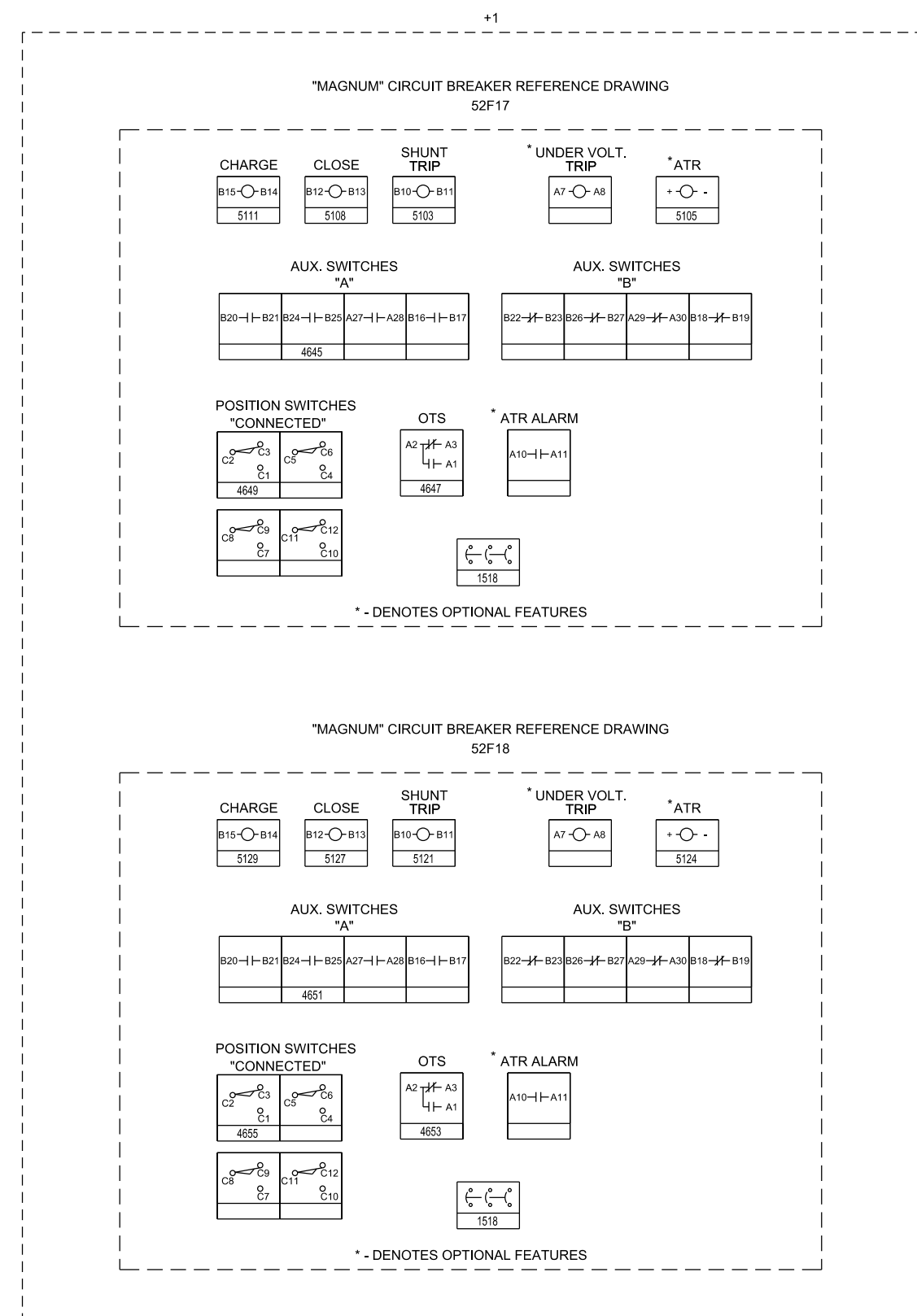
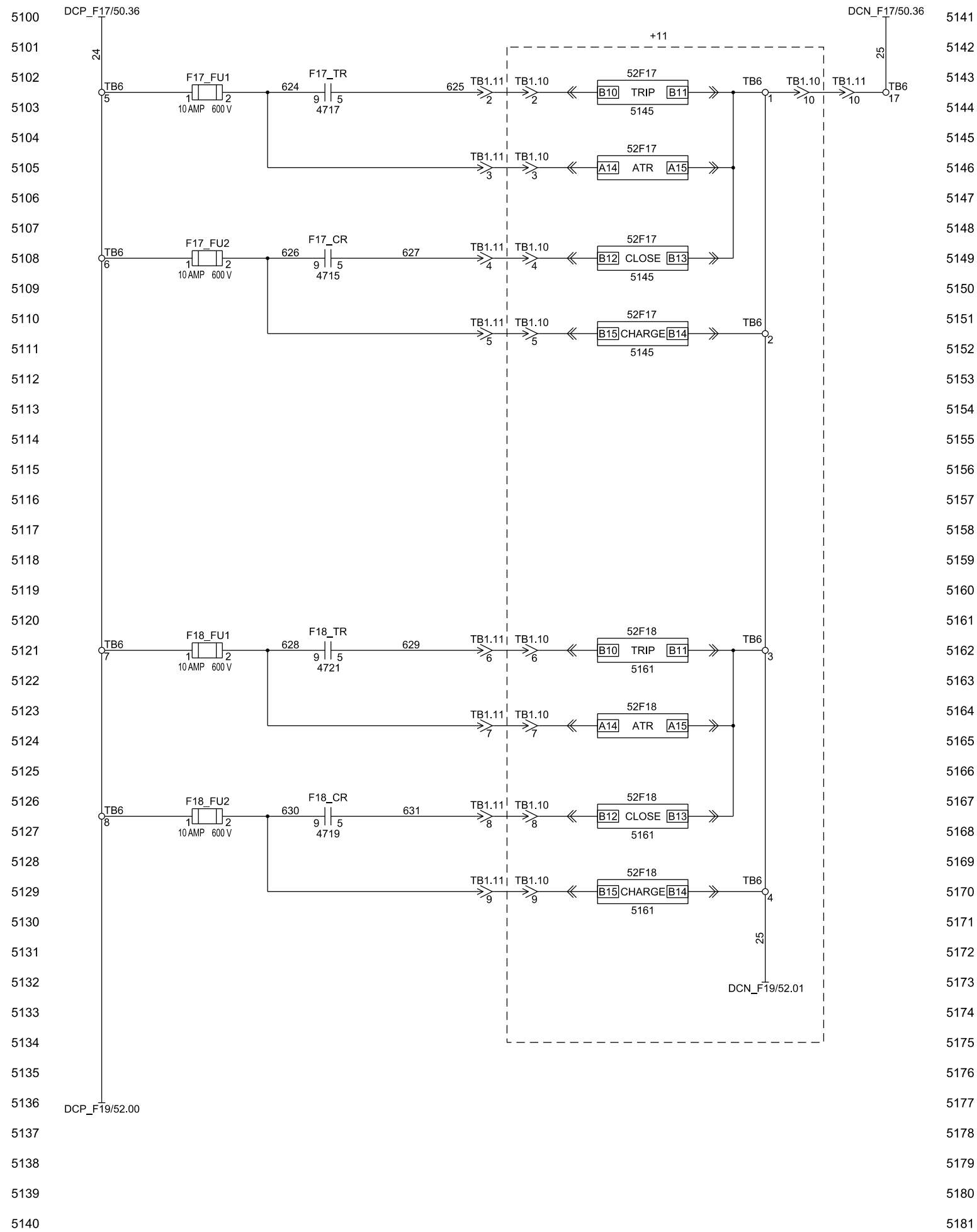
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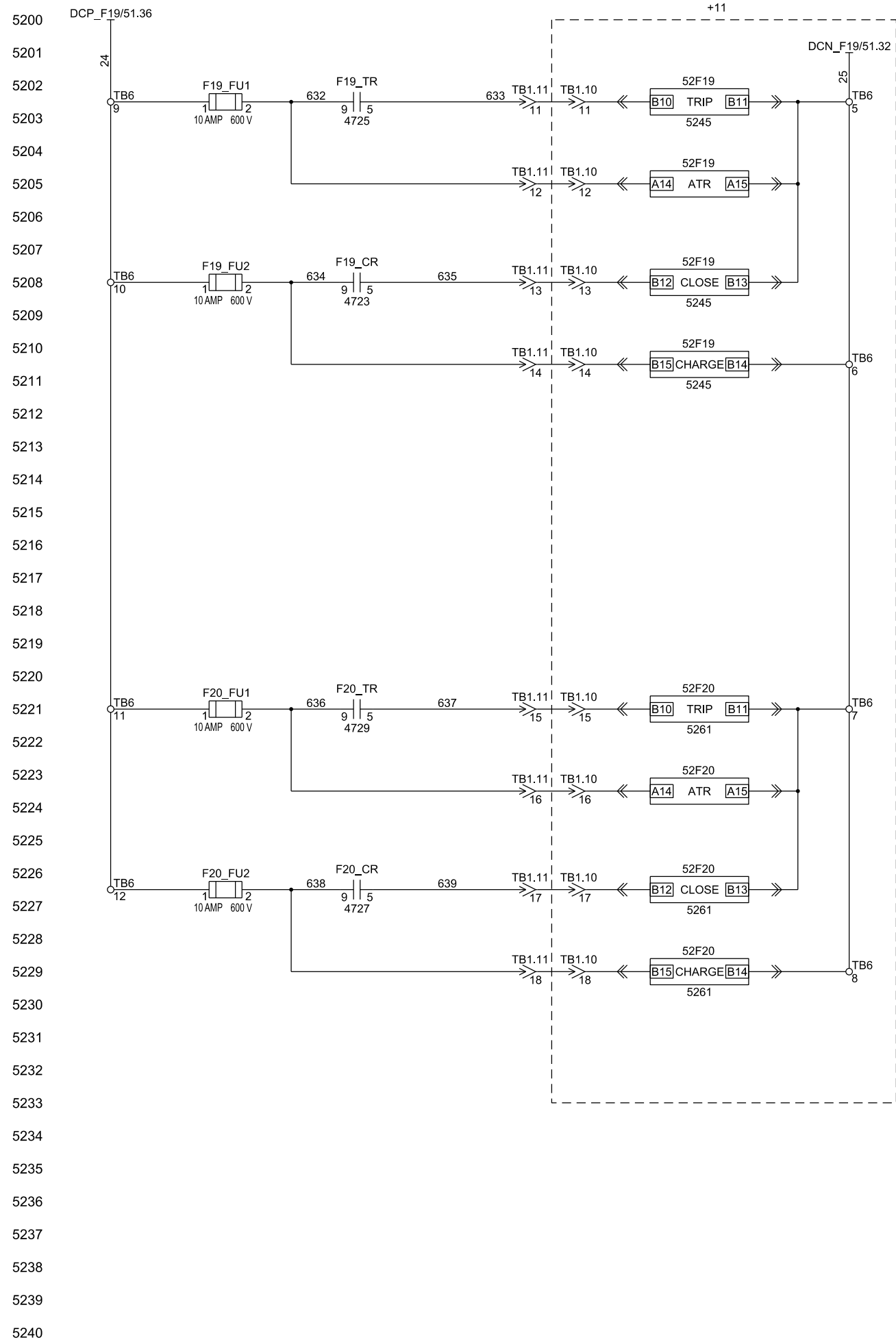
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC FEEDERS 15 & 16	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	RMB	1-5-10	SHEET 50 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	RMB	1-5-10	DWG. NO.	
SECTION/FUNCTION 10				APPROVED RMB		SGP-1350	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

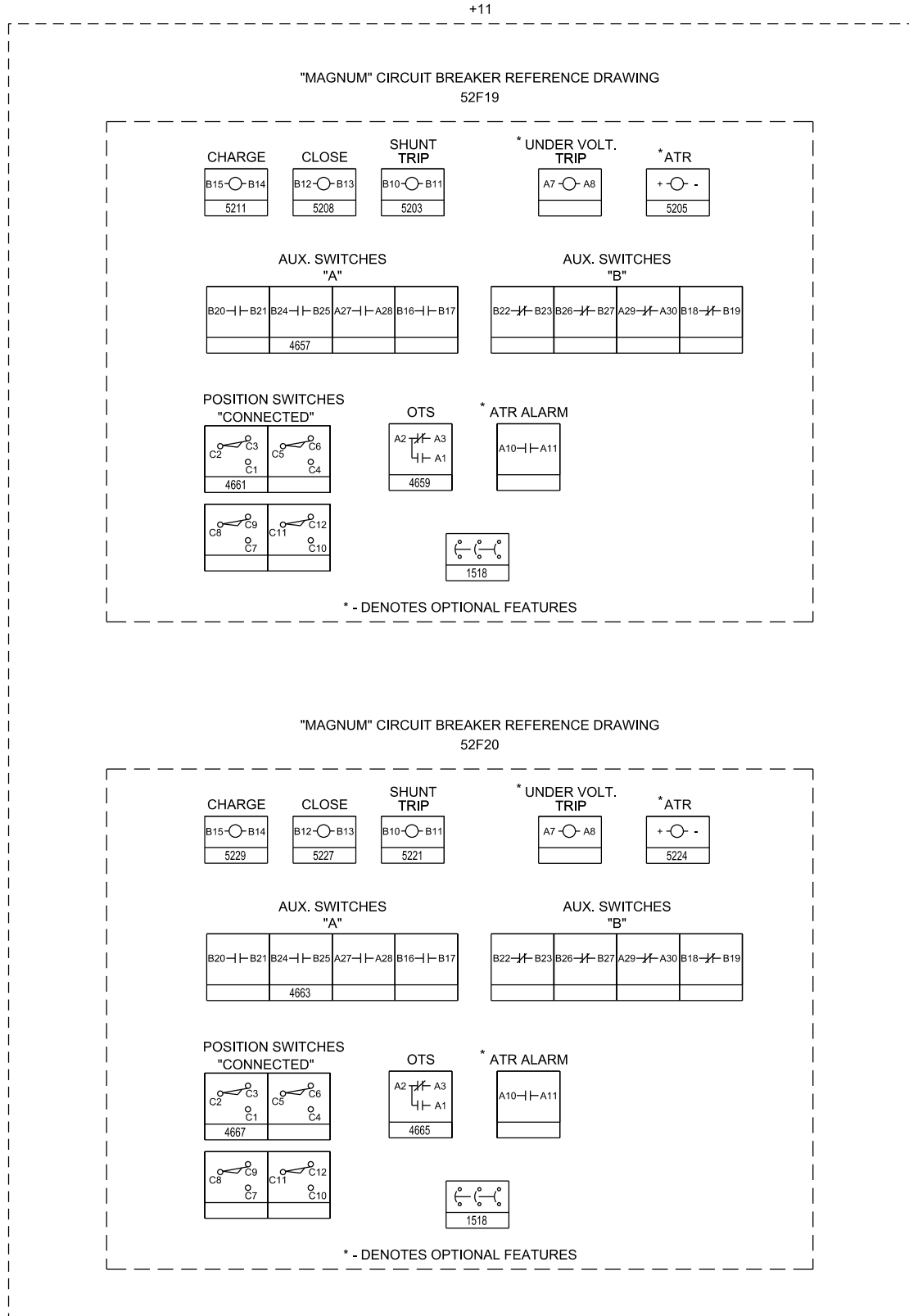


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC FEEDERS 17 & 18	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	RMB	1-5-10	SHEET E 51 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	RMB	1-5-10	DWG. NO. SGP-1350	
SECTION/FUNCTION 10				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			

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CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10

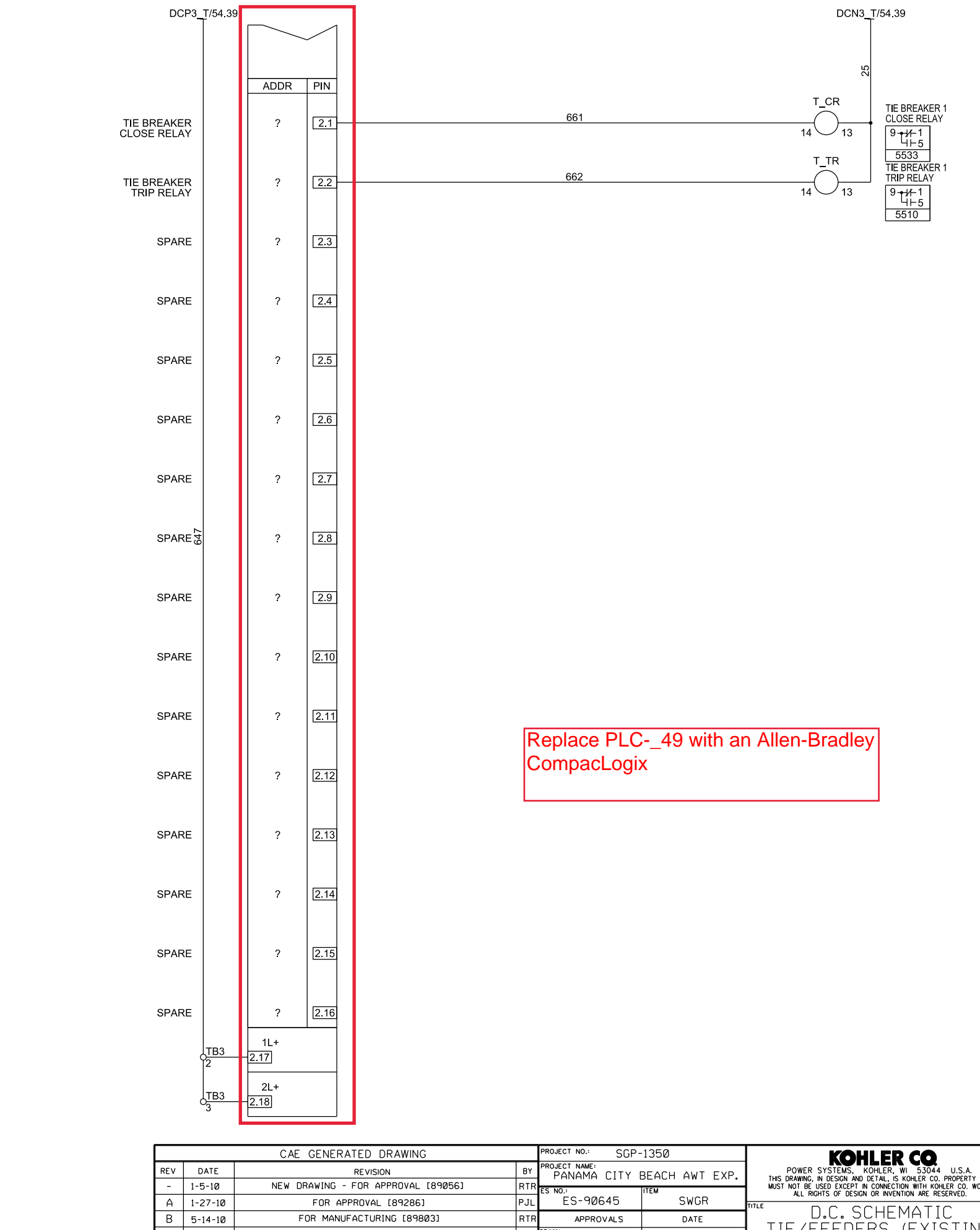
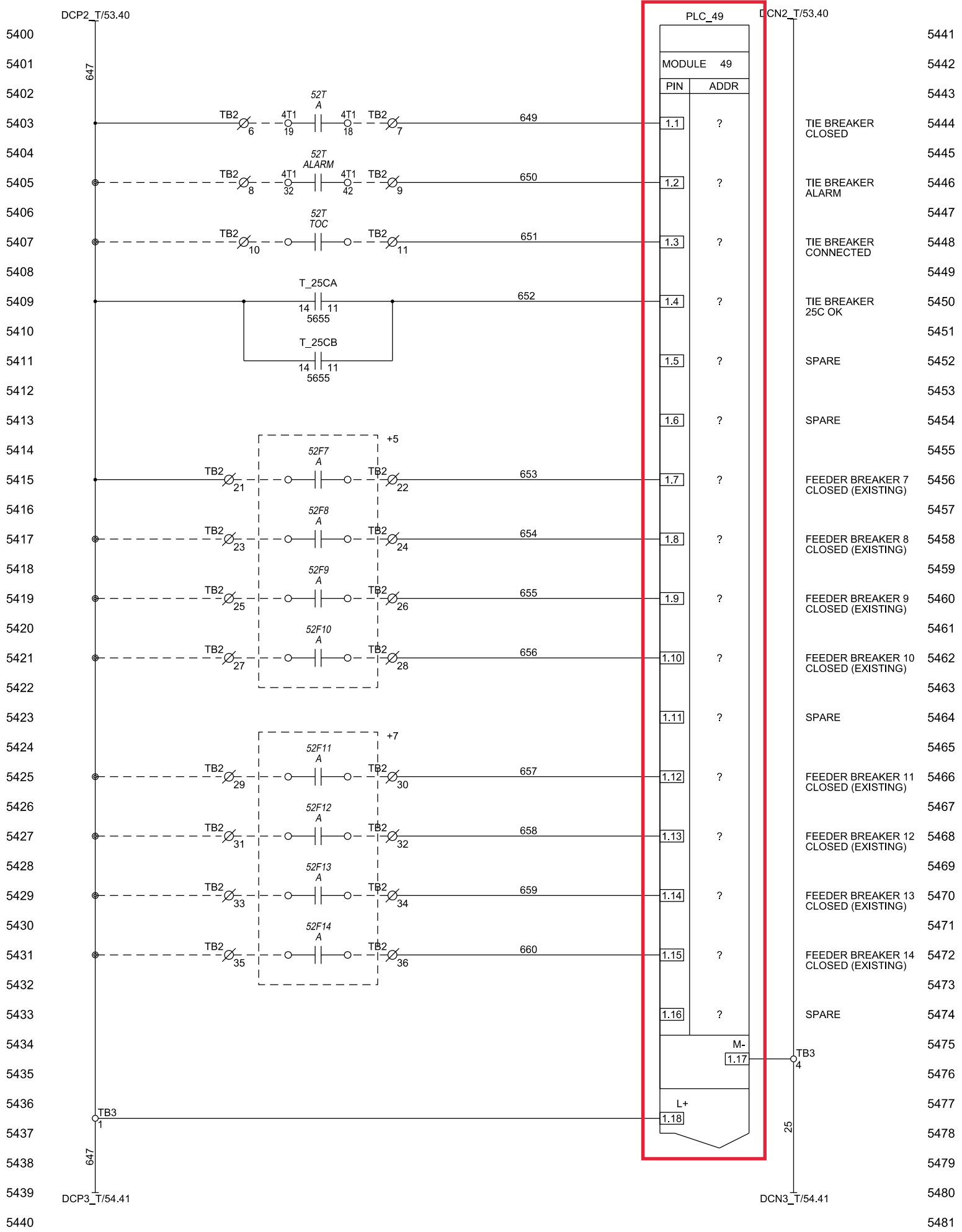
SECTION/FUNCTION	10	PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED	DWG. NO.	SGP-1350	D
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TITLE: C.B. SCHEMATIC FEEDERS 19 & 20

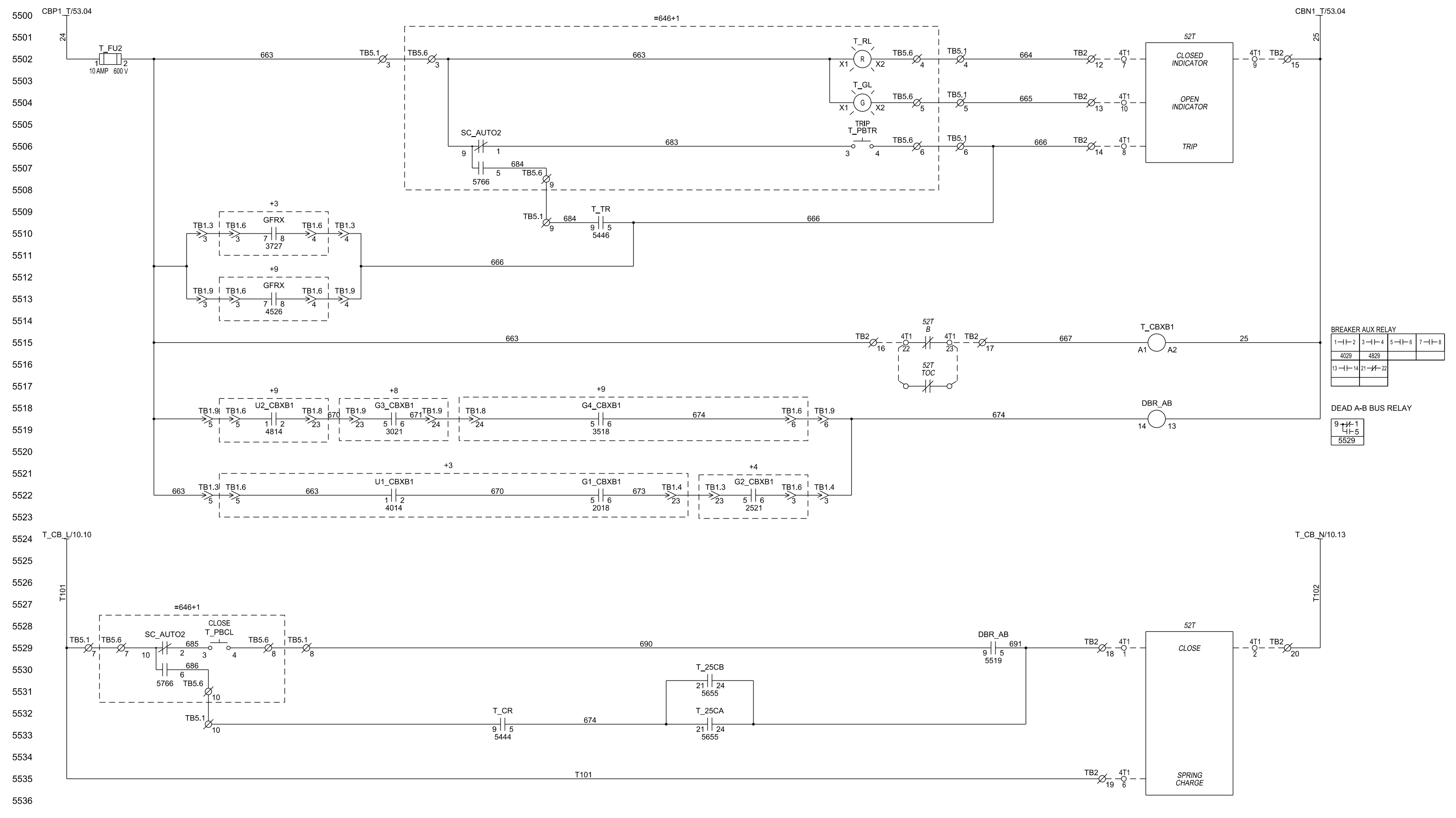
SCALE: CAD NO. SHEET: E 52 OF 179





Replace PLC-\_49 with an Allen-Bradley CompacLogix

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	D.C. SCHEMATIC TIE/FEEDERS (EXISTING)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SHEET 54 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PLOTTED
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.



**BREAKER AUX RELAY**

1-1-2	3-1-4	5-1-6	7-1-8
4029	4829		
13-1-14	21-1-22		

**DEAD A-B BUS RELAY**

9-1-1
4-1-5
5529

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	C.B. SCHEMATIC TIE (EXISTING)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	SHEET E 55 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWG. NO. SGP-1350	

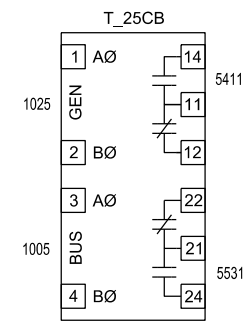
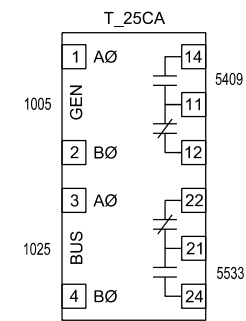
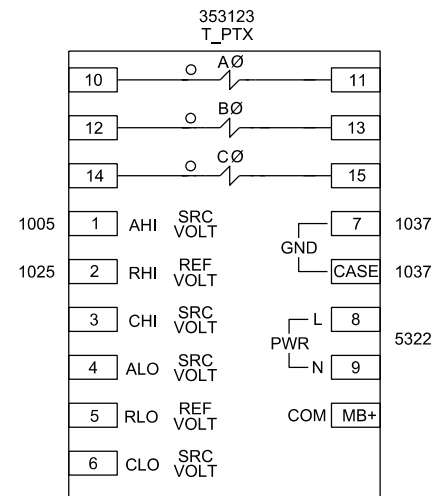
SECTION/FUNCTION 6

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



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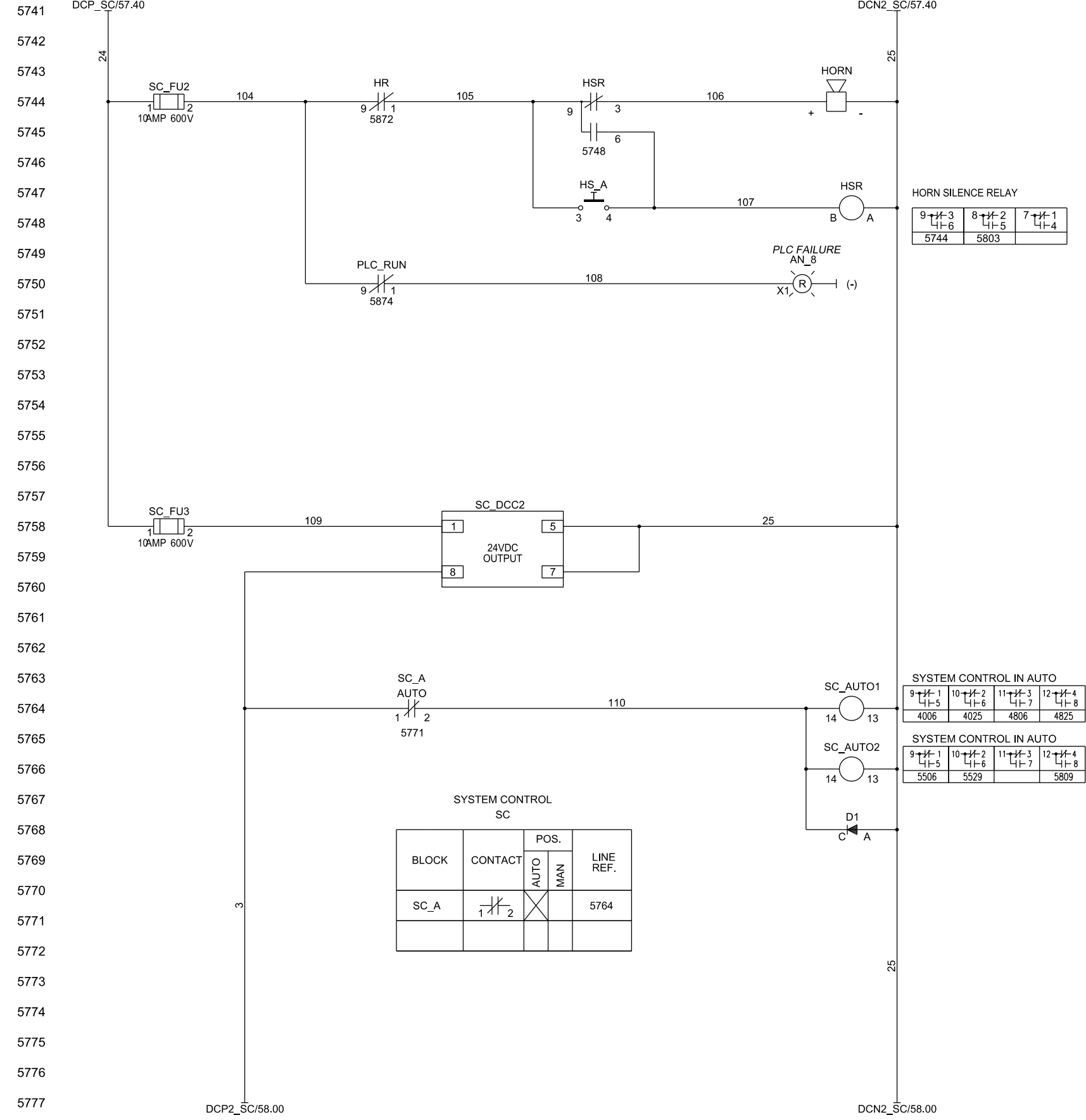
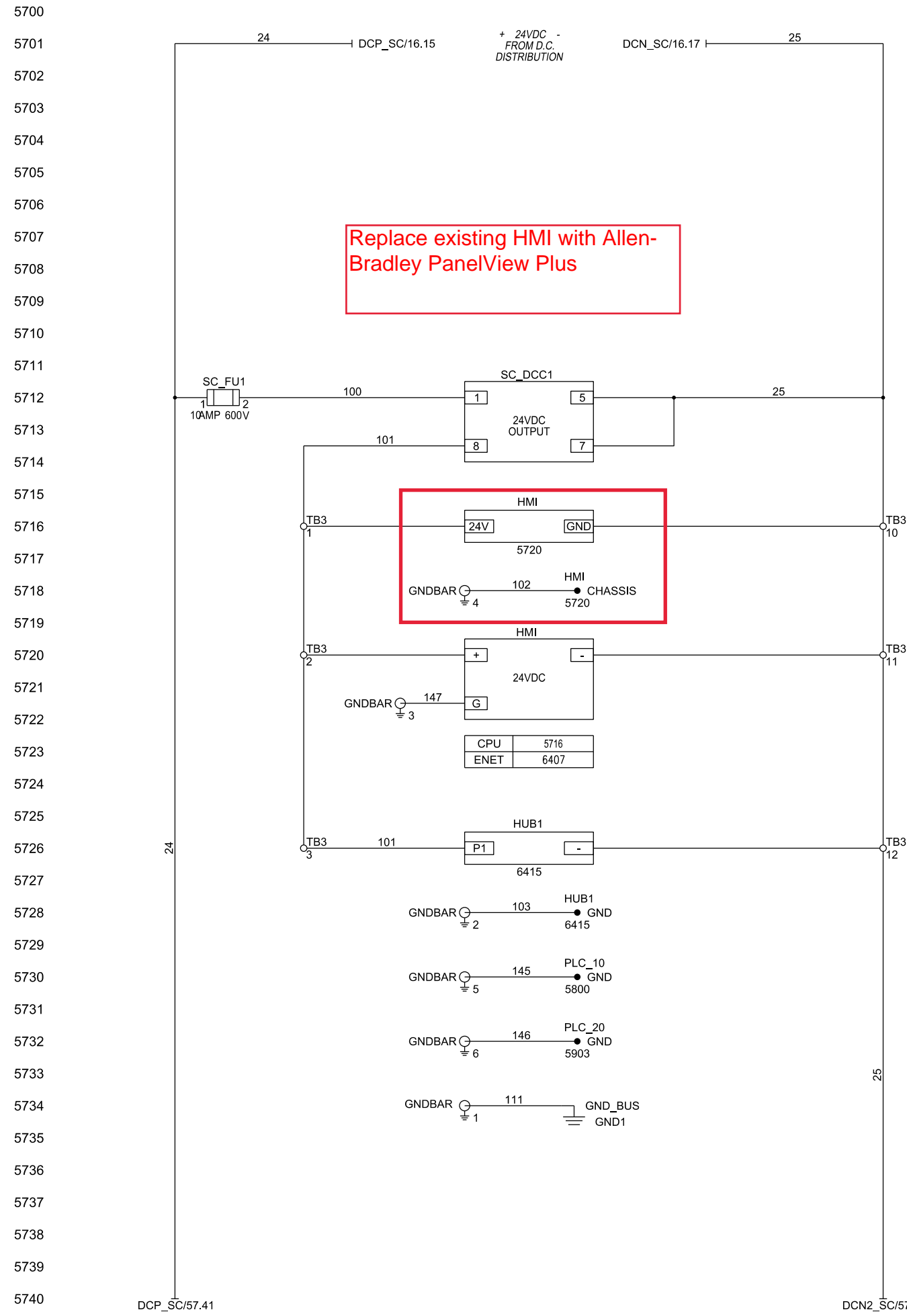
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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	MISC. REF. DRAWINGS TIE (EXISITING)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SHEET 56 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PLOTTED
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.
SECTION/FUNCTION 6				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			

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SCALE: 1:1  
DWC. NO.: SGP-1350  
SHEET 56 OF 179



**HORN SILENCE RELAY**

9	8	7
4-3	4-2	4-1
5744	5803	

**SYSTEM CONTROL IN AUTO**

9	10	11	12
4-1	4-2	4-3	4-4
4006	4025	4806	4825

**SYSTEM CONTROL IN AUTO**

9	10	11	12
4-5	4-6	4-7	4-8
5506	5529		5809

**SYSTEM CONTROL SC**

BLOCK	CONTACT	POS.		LINE REF.
		AUTO	MAN	
SC_A	1/2	X		5764

CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.		
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90646	ITEM	CTRL
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10

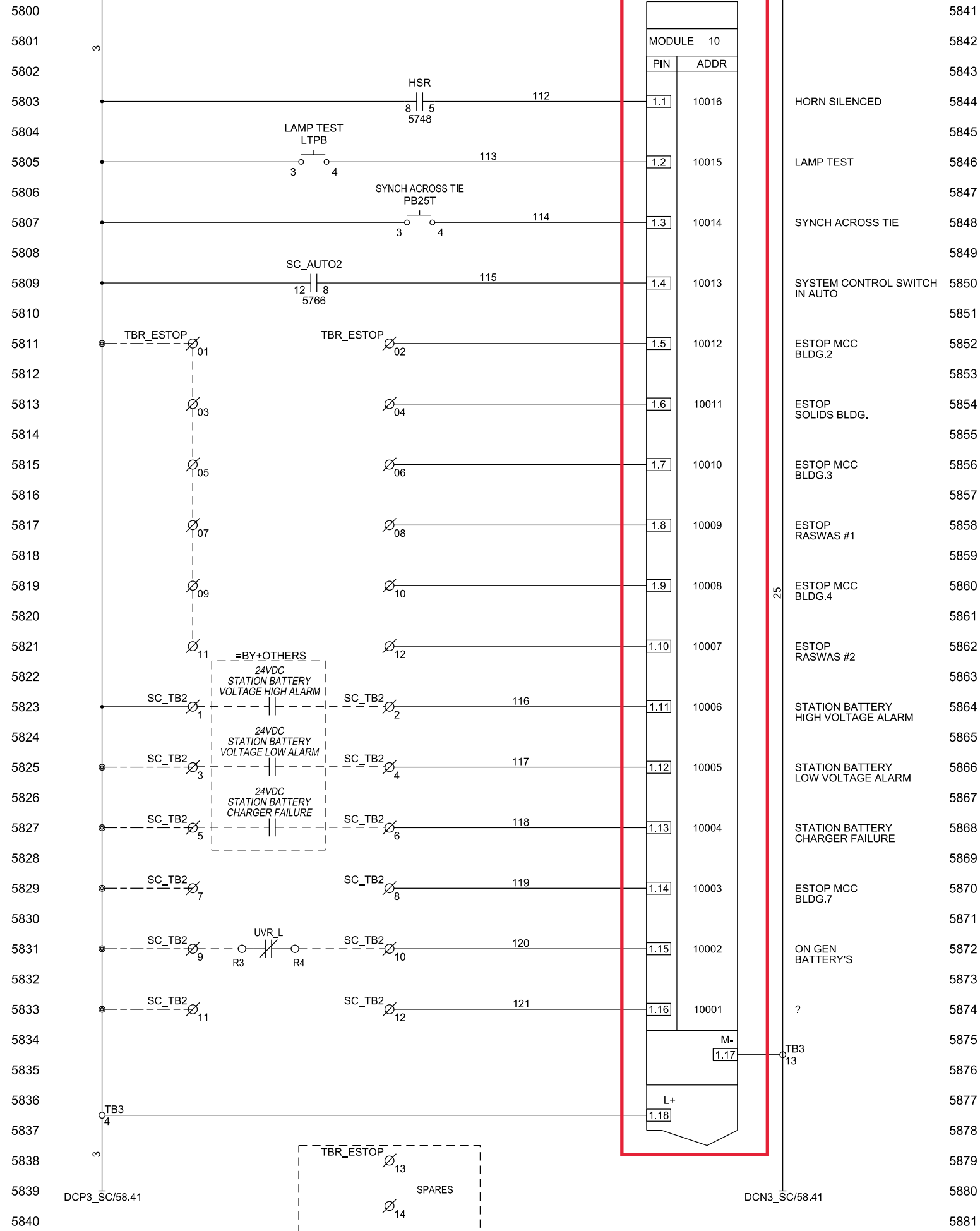
  

SECTION/FUNCTION	1
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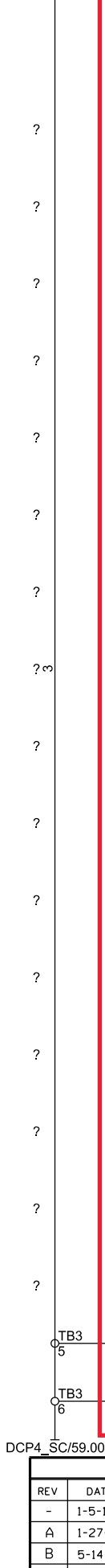
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<b>D.C. SCHEMATIC SYSTEM CONTROL</b>	
SCALE	CAD NO.
FLOTTED	DWG. NO.
SHEET 57 OF 179 SGP-1350   D	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



MODULE 10	
PIN	ADDR
1.1	10016
1.2	10015
1.3	10014
1.4	10013
1.5	10012
1.6	10011
1.7	10010
1.8	10009
1.9	10008
1.10	10007
1.11	10006
1.12	10005
1.13	10004
1.14	10003
1.15	10002
1.16	10001
1.17	
1.18	

5841	
5842	
5843	
5844	HORN SILENCED
5845	LAMP TEST
5846	SYNCH ACROSS TIE
5847	SYSTEM CONTROL SWITCH IN AUTO
5848	ESTOP MCC BLDG.2
5849	ESTOP SOLIDS BLDG.
5850	ESTOP MCC BLDG.3
5851	ESTOP RASWAS #1
5852	ESTOP MCC BLDG.4
5853	ESTOP RASWAS #2
5854	STATION BATTERY HIGH VOLTAGE ALARM
5855	STATION BATTERY LOW VOLTAGE ALARM
5856	STATION BATTERY CHARGER FAILURE
5857	ESTOP MCC BLDG.7
5858	ON GEN BATTERY'S
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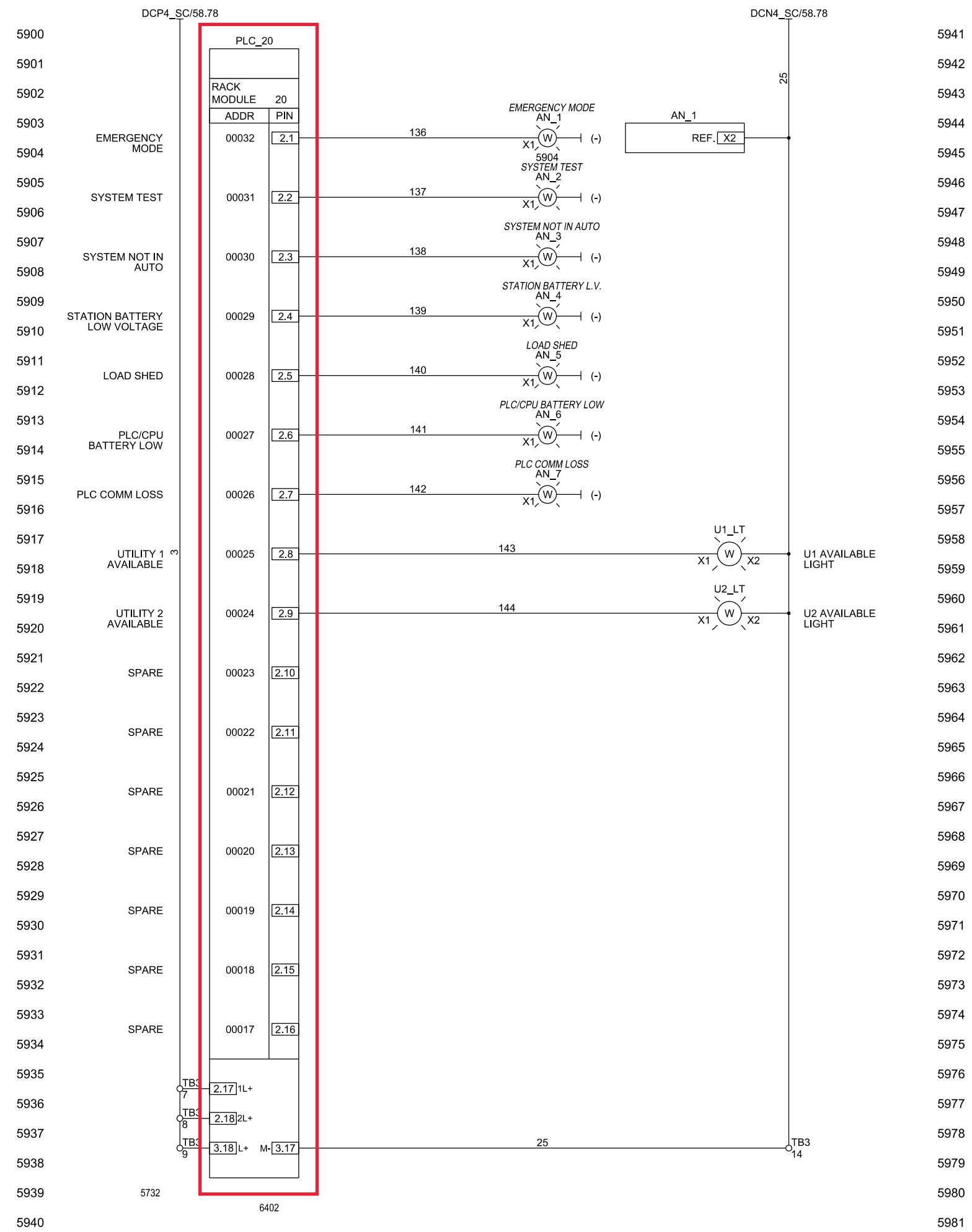


Combine PLC\_10 and PLC\_20 into one PLC using Allen-Bradley CompacLogix

REV	DATE	REVISION	BY	PROJECT NO.:	SGP-1350
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
A	1-27-10	FOR APPROVAL [89286]	PJL	ES NO.:	ES-90646
B	5-14-10	FOR MANUFACTURING [89803]	RTR	ITEM	CTRL
C	7-21-10	AS BUILT [90178]	RTR	APPROVALS	DATE
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	DRAWN	RTR
			CHEKED	RMB	1-5-10
			APPROVED	RMB	1-5-10

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TITLE: D.C. SCHEMATIC SYSTEM CONTROL  
 SCALE: 1-5-10  
 SHEET: 58 OF 179  
 DWG. NO. SGP-1350



Combine PLC\_10 and PLC\_20 into one PLC using Allen-Bradley CompacLogix

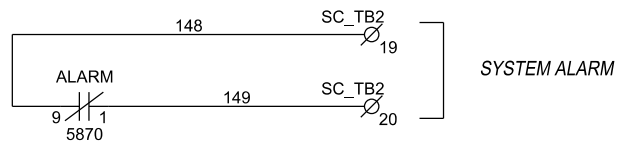
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REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	D.C. SCHEMATIC SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL			SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR			1-5-10	SHEET 59 OF 179
C	7-21-10	AS BUILT [90178]	RTR				
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

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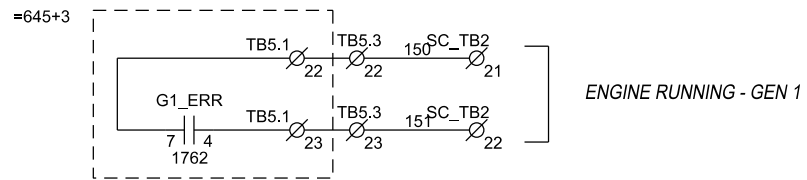
SECTION/FUNCTION 1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

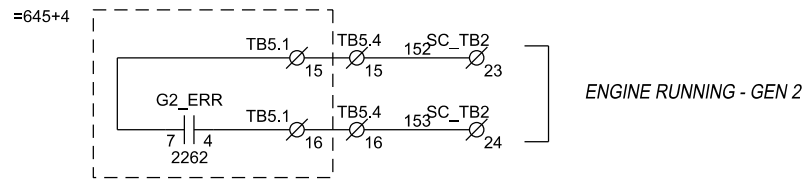
FOR CUSTOMER USE



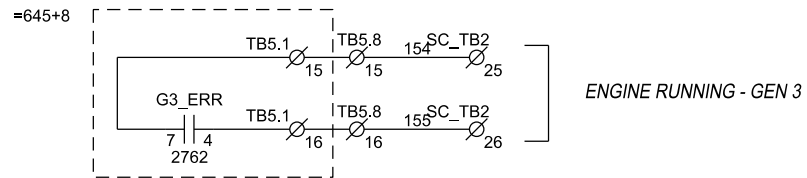
SYSTEM ALARM



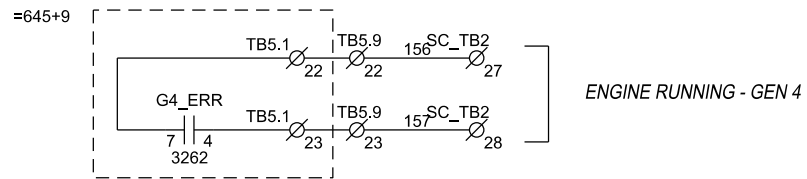
ENGINE RUNNING - GEN 1



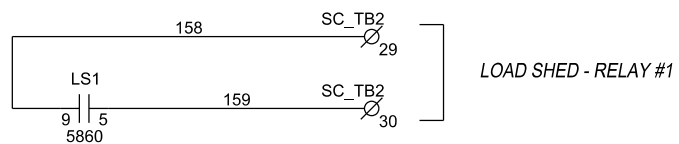
ENGINE RUNNING - GEN 2



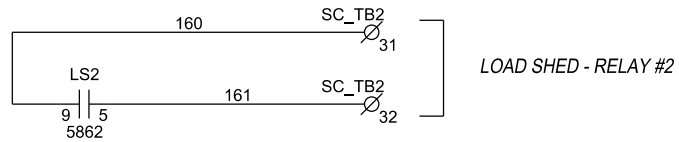
ENGINE RUNNING - GEN 3



ENGINE RUNNING - GEN 4



LOAD SHED - RELAY #1



LOAD SHED - RELAY #2

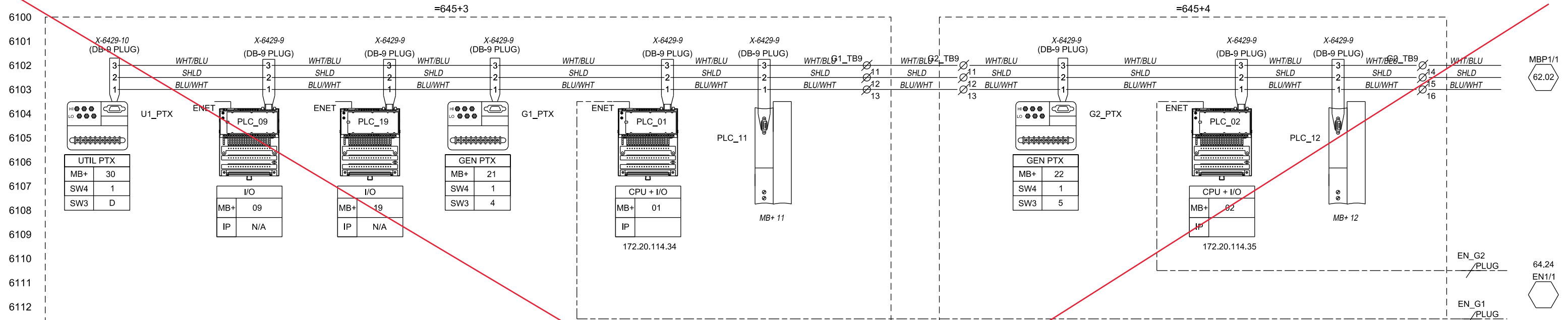
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REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	MISC. CONNECTIONS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SHEET E 60 OF 179

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SGP-1350 | D

SECTION/FUNCTION  
1

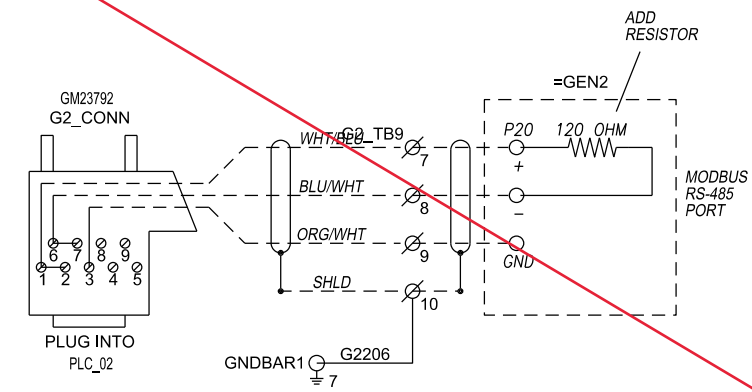
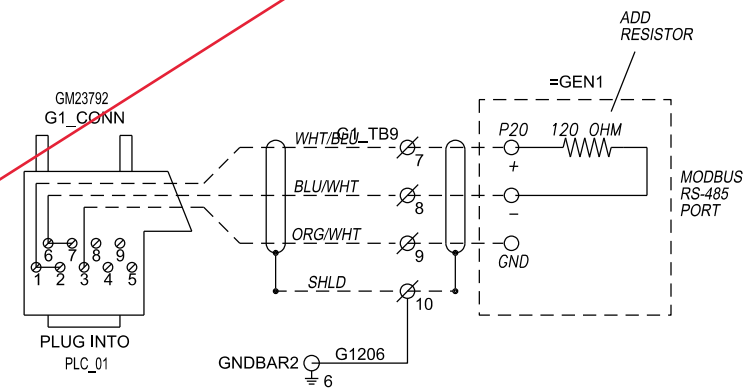
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



See new SCADA Architecture drawing

255.255.255.0

- MODBUS PLUS
- - - MODBUS 485
- - - MODBUS TCP/IP



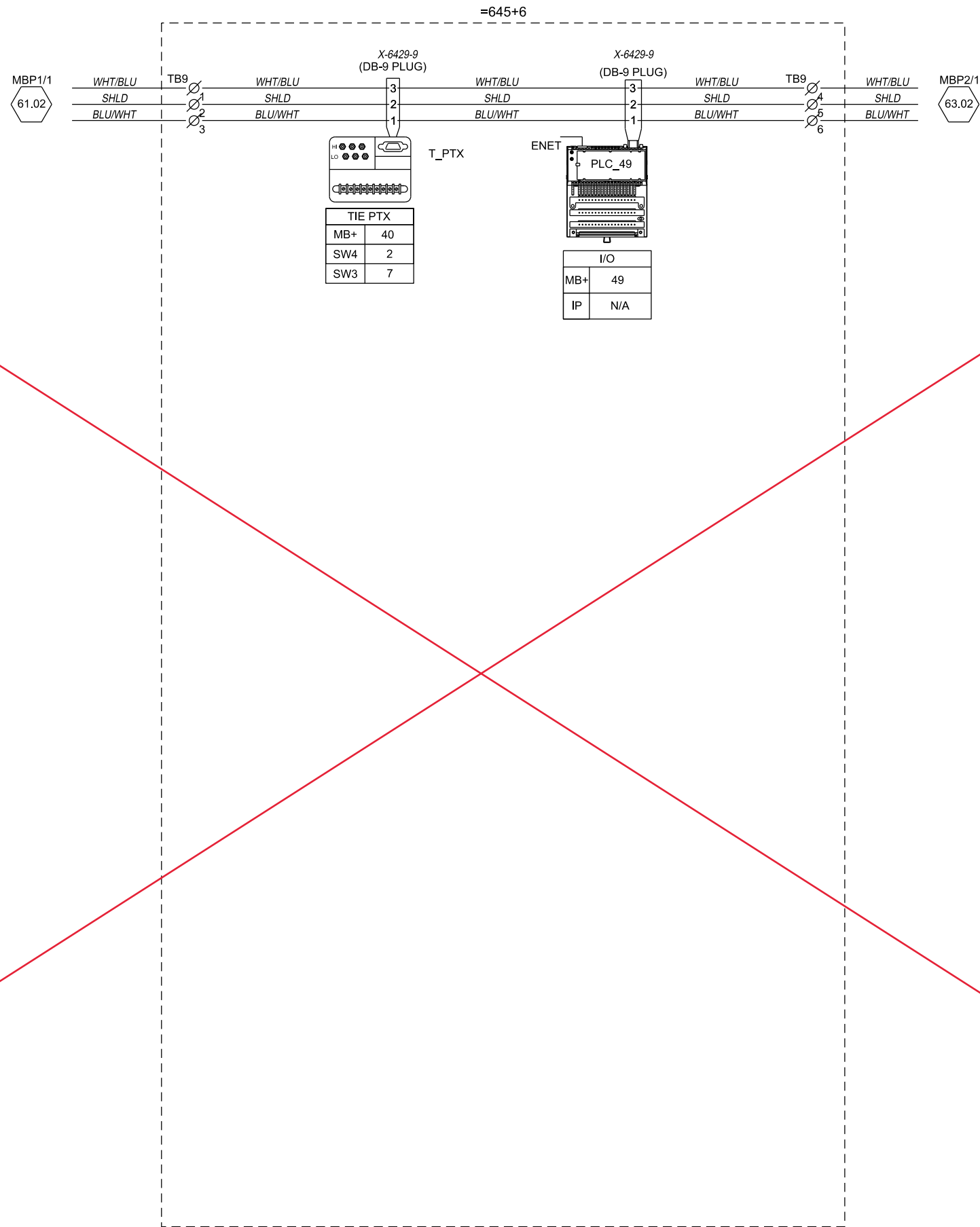
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REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCHEMATIC COMMUNICATIONS	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	CAD NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	1-5-10	SHEET E 61 OF 179	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	1-5-10	DWG. NO.	
SECTION/FUNCTION COM				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SGP-1350 D	

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SCALE: 1:1  
 SHEET: E 61 OF 179  
 DWG. NO.: SGP-1350

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See new SCADA Architecture drawing

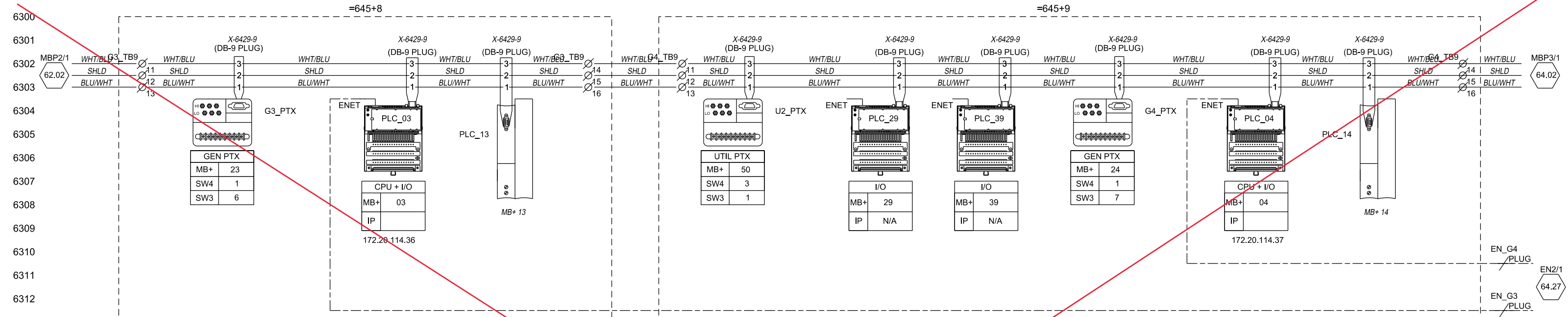


————— MODBUS PLUS  
 - - - - - MODBUS 485  
 - · - · - · MODBUS TCP/IP

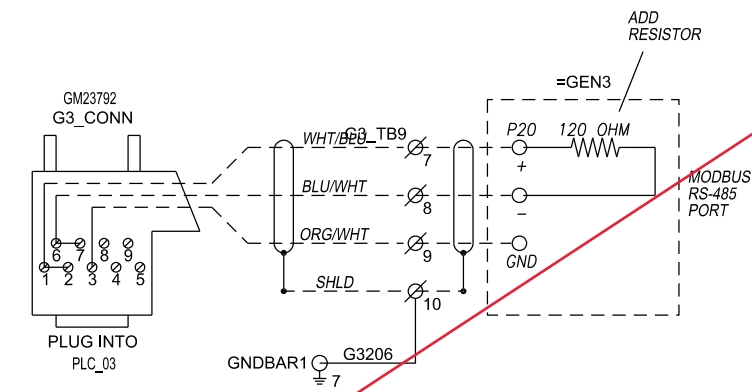
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-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
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B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.: ES-90645	ITEM: SWGR
APPROVALS	DATE
DRAWN: RTR	1-5-10
CHECKED: RMB	1-5-10
APPROVED: RMB	1-5-10

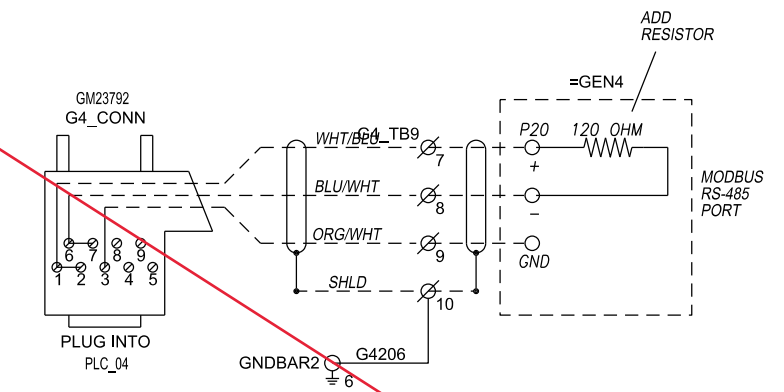
<small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
TITLE: SCHEMATIC COMMUNICATIONS	
SCALE	SHEET: 62 OF 179
CAD NO.	DWG. NO. SGP-1350
FLOTTED	PRINTED



See new SCADA Architecture drawing



255.255.255.0



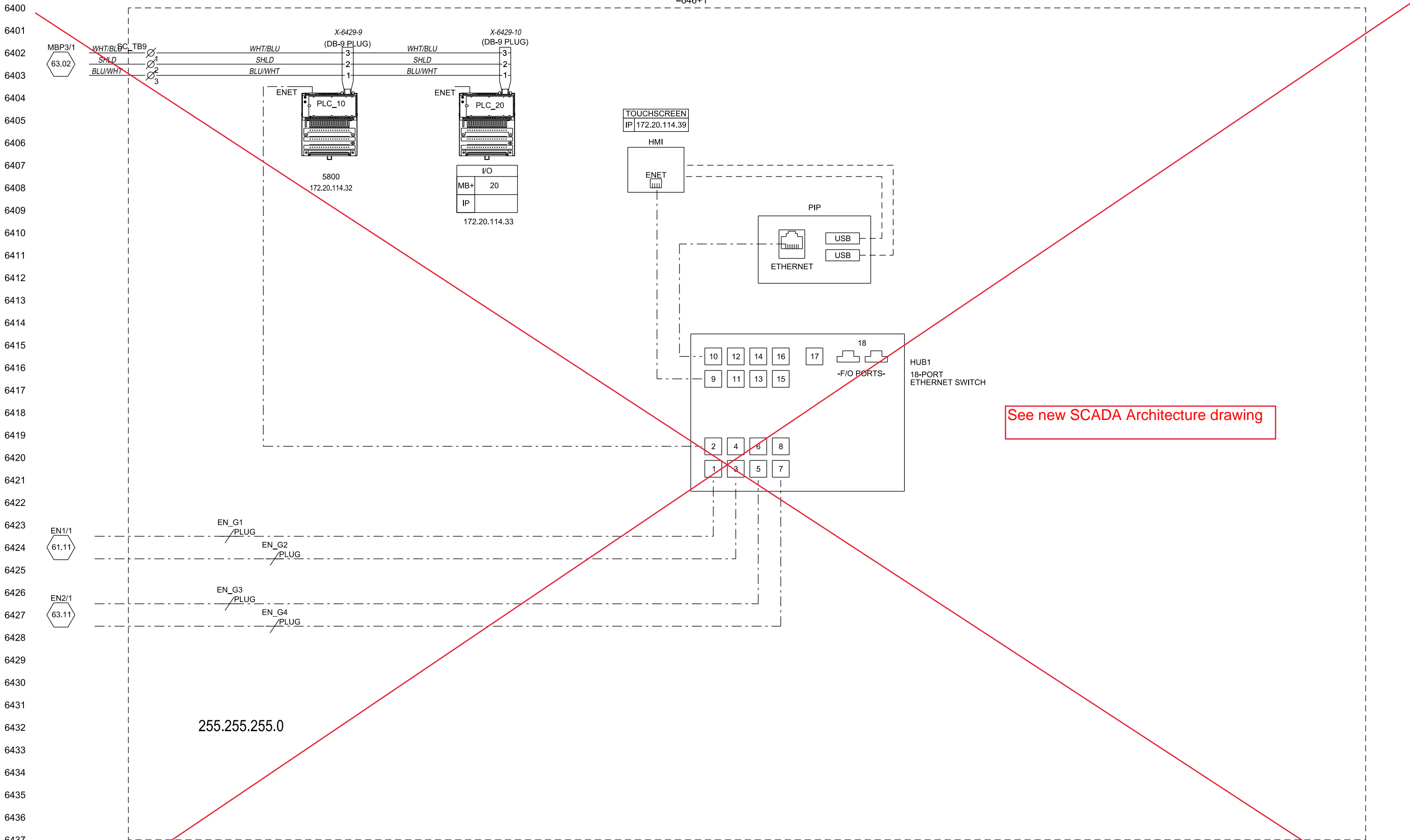
- MODBUS PLUS
- - - - MODBUS 485
- ..... MODBUS TCP/IP

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350			
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR			ES-90645	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL			APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR			1-5-10	
C	7-21-10	AS BUILT [90178]	RTR			1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM			1-5-10	
			APPROVED	RMB	1-5-10	SCALE: CAD NO. SHEET 63 OF 179	
			APPROVED	RMB	1-5-10	DWG. NO. SGP-1350 D	

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



=646+1



See new SCADA Architecture drawing

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- MODBUS PLUS
- - - - - MODBUS 485
- - - - - MODBUS TCP/IP

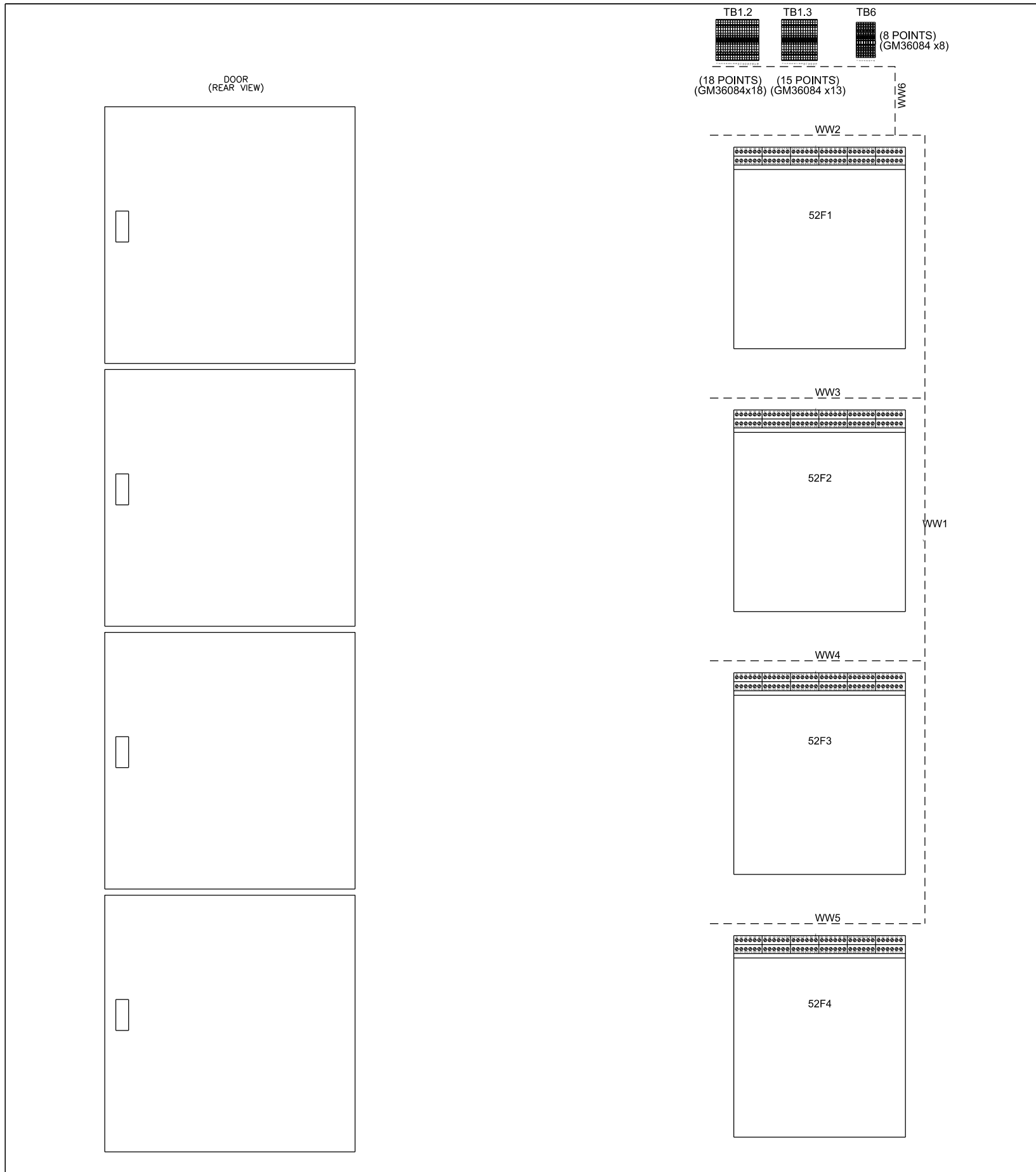
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A	1-27-10	FOR APPROVAL [89286]	PJL	ITEM: CTRL
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS
C	7-21-10	AS BUILT [90178]	RTR	DATE: 1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED: RMB
			APPROVED: RMB	DATE: 1-5-10

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TITLE: SCHEMATIC COMMUNICATIONS

SCALE: CAD NO. SHEET: E 64 OF 179

PLOTTED: DWG. NO. SGP-1350



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	PANEL LAYOUT	
A	1-27-10	FOR APPROVAL [89286]	PJL			SECTION 1 (FEEDERS 1-4)	
B	5-14-10	FOR MANUFACTURING [89803]	RTR			SCALE	CAD NO.
C	7-21-10	AS BUILT [90170]	RTR			1-5-10	SHEET 65 OF 179
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10	DWG. NO.
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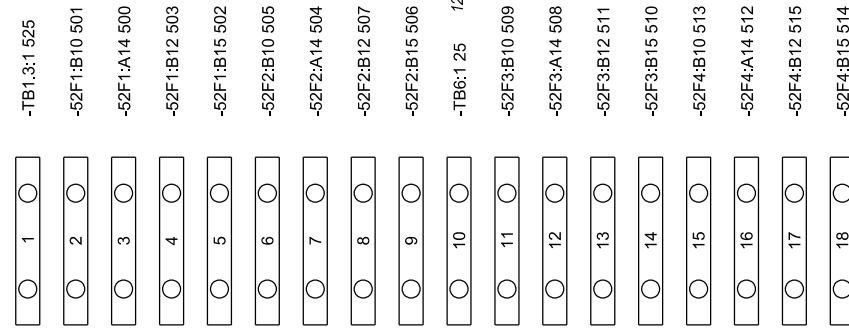
SECTION/FUNCTION  
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PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

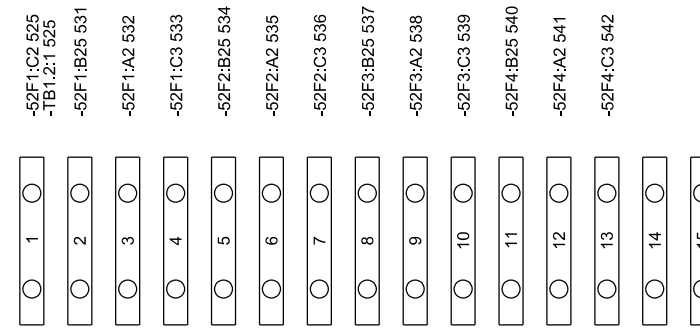
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UPPER WIRE CHANNEL

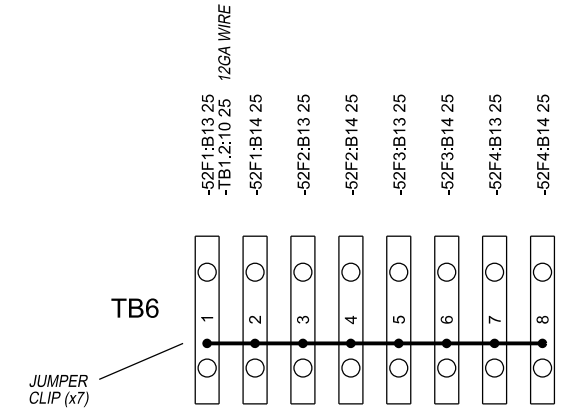
TB1.2



TB1.3



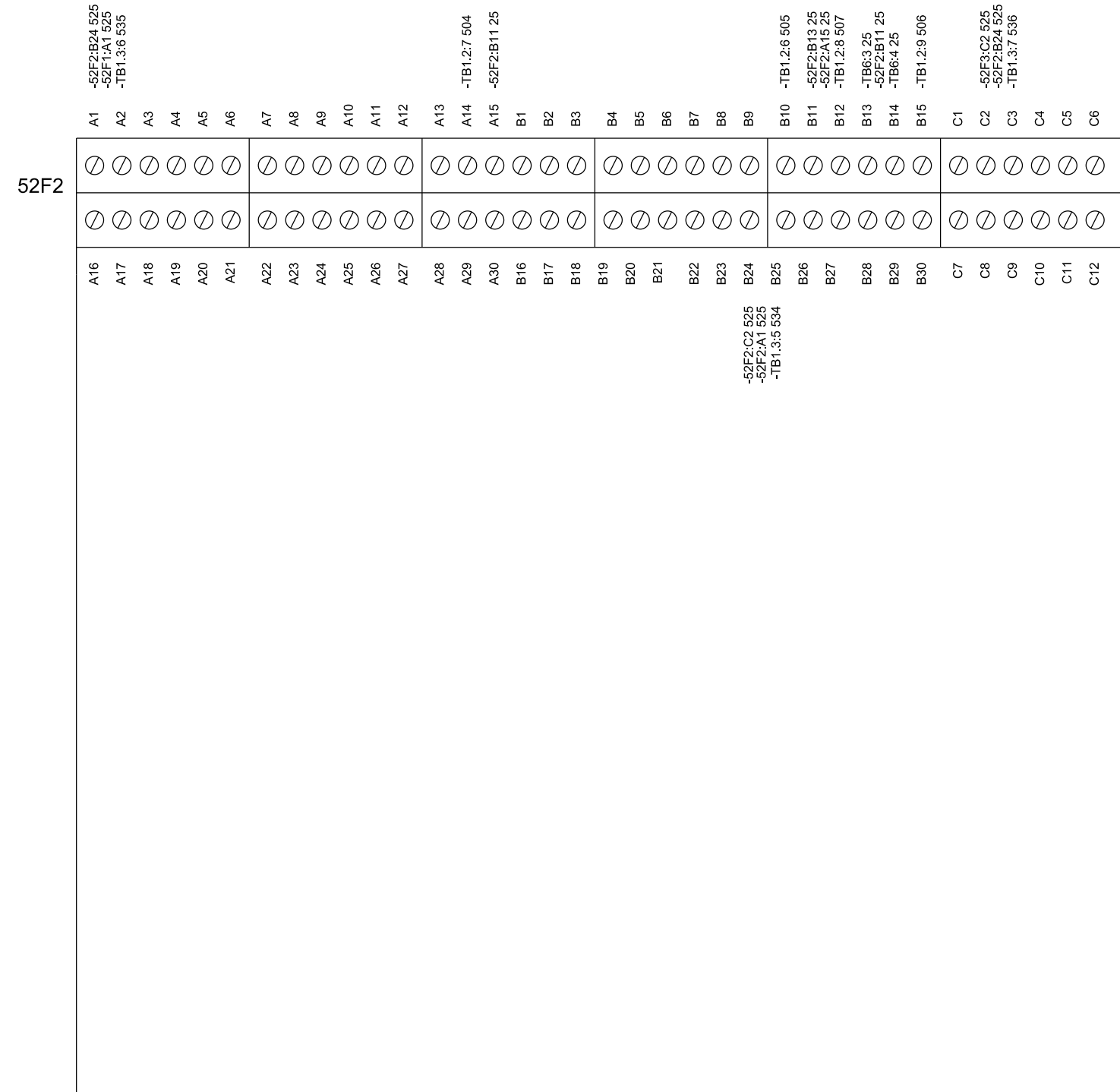
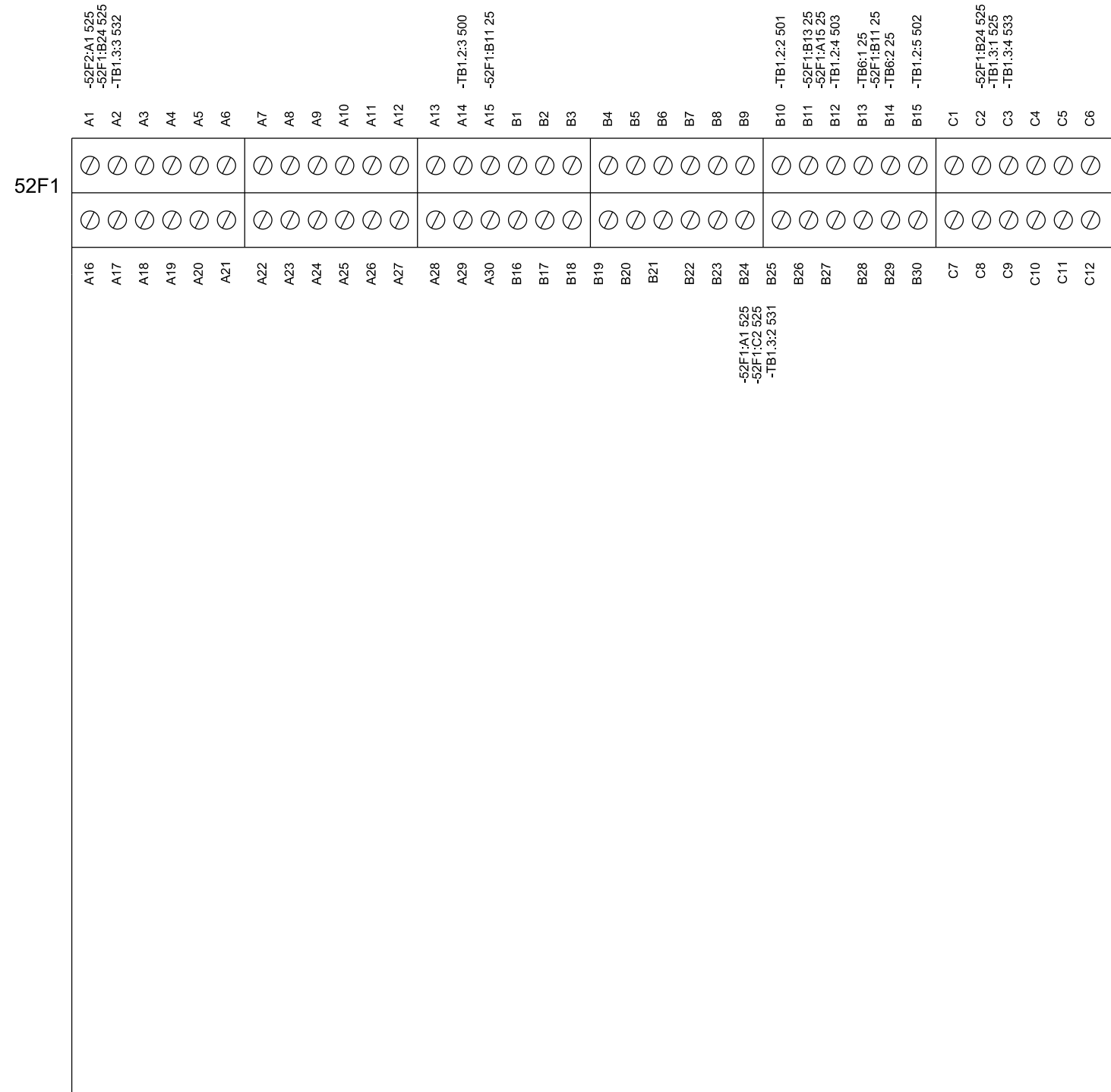
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CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAGRAM	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SECTION 1 (FEEDERS 1-4)	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SCALE
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	CAD NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.
SECTION/FUNCTION 1				PROJECT NO.: SGP-1350		SHEET 66 OF 179	

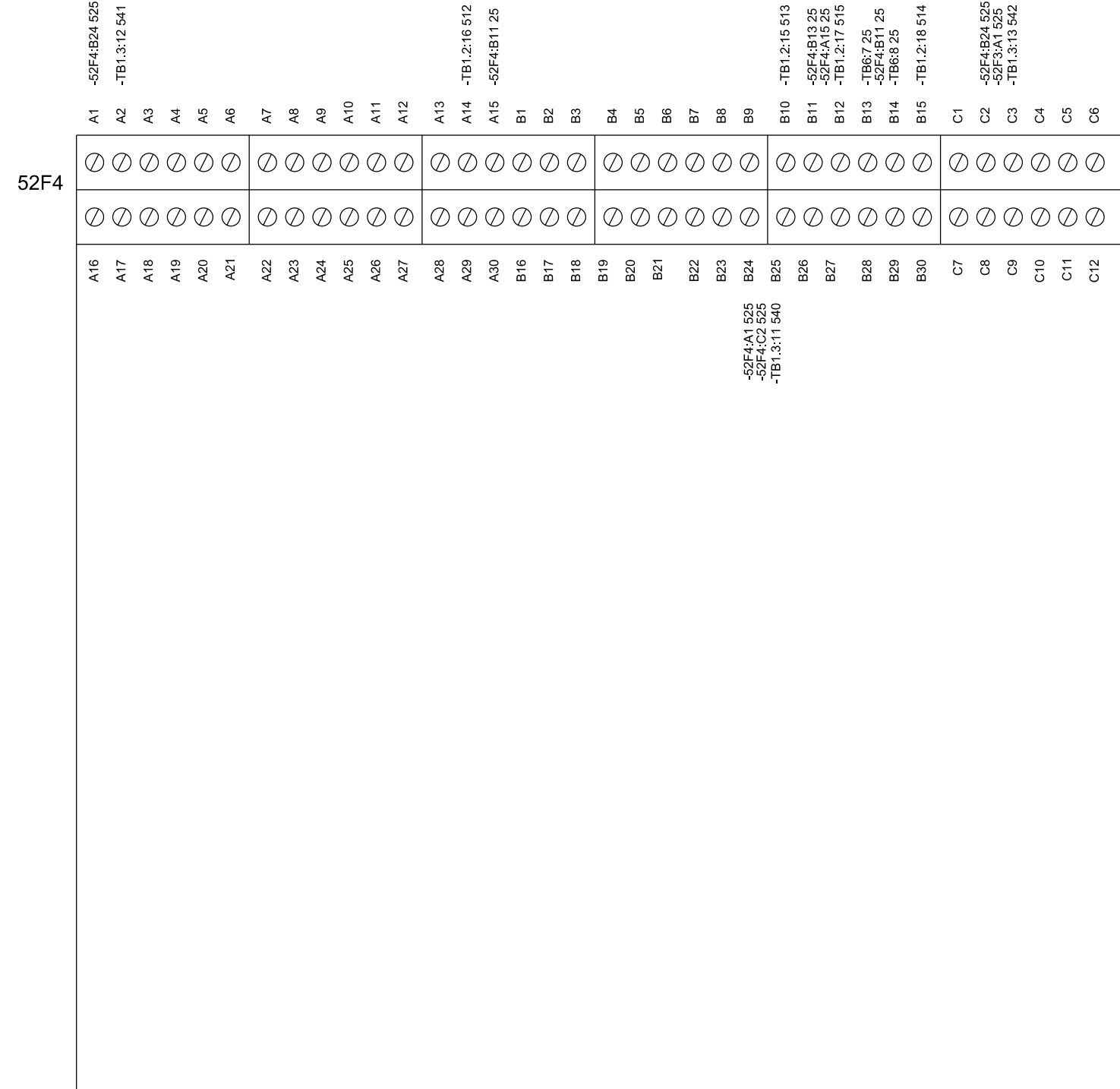
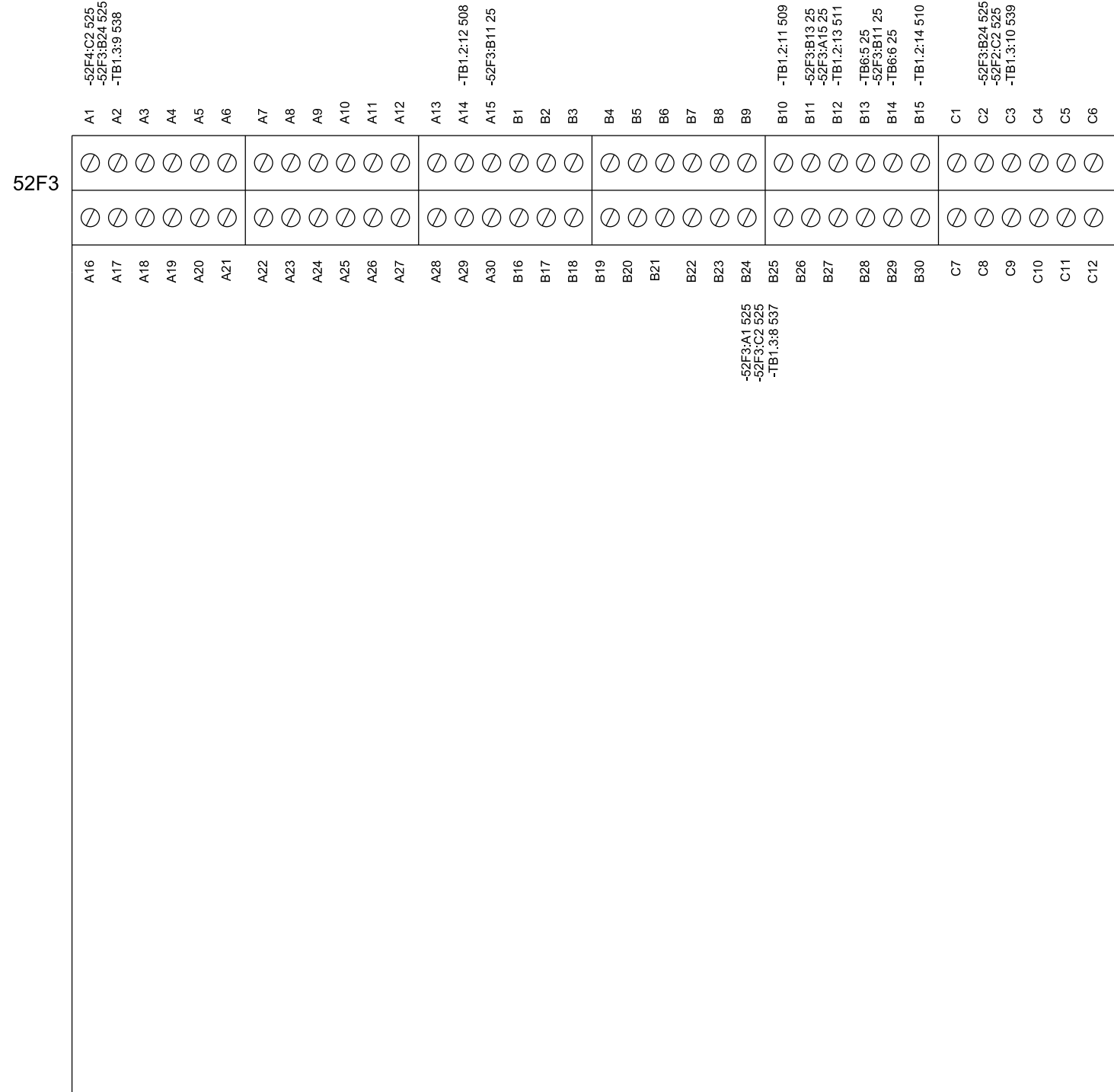
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# BREAKER AREA



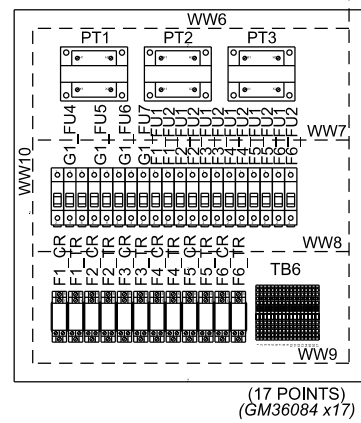
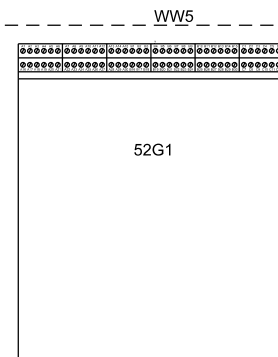
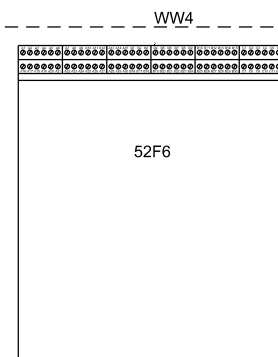
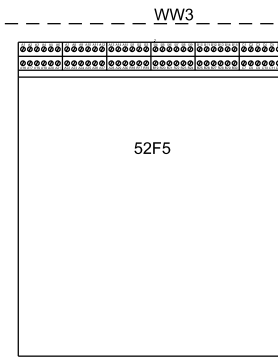
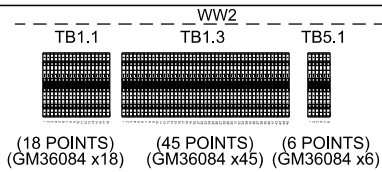
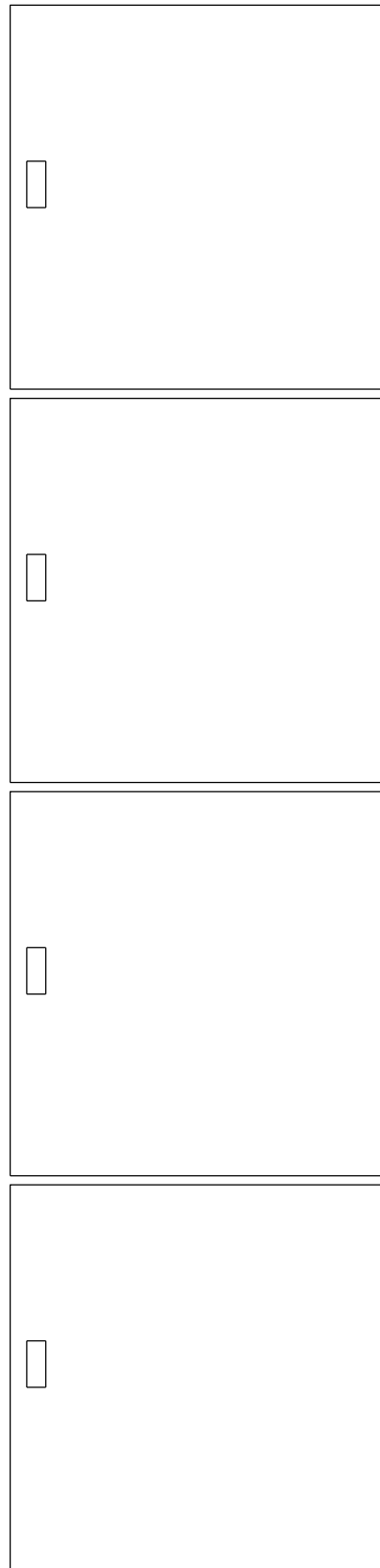
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	1-5-10	WIRING DIAGRAM
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR		SECTION 1 (FEEDERS 1-4)
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	SCALE
				APPROVED	RMB	1-5-10	CAD NO.
SECTION/FUNCTION 1				DWC NO.		SHEET 67 OF 179	
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350		D	

# BREAKER AREA



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	DATE	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DATE	1-5-10
				APPROVED	RMB	DATE	1-5-10
SECTION/FUNCTION 1		PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SCALE	DWG. NO. SGP-1350
						TITLE	WIRING DIAGRAM SECTION 1 (FEEDERS 1-4)
						SHEET	68 OF 179

DOOR  
(REAR VIEW)

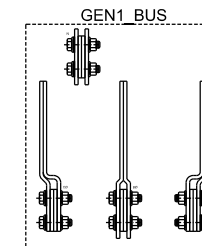
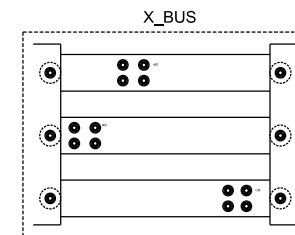


WW1

WW11



REAR BUS AREA



WW12

PARTS LIST

Device ID	Part Number
F1_CR	X-6124-12
F1_CR	X-6124-13
F1_CR	X-6137-5
F1_FU1	X-6129-16
F1_FU1	X-6135-6
F1_FU2	X-6135-6
F1_FU2	X-6129-16
F1_TR	X-6137-5
F1_TR	X-6124-13
F1_TR	X-6124-12
F2_CR	X-6124-12
F2_CR	X-6124-13
F2_CR	X-6137-5
F2_FU1	X-6129-16
F2_FU1	X-6135-6
F2_FU2	X-6129-16
F2_FU2	X-6135-6
F2_TR	X-6137-5
F2_TR	X-6124-13
F2_TR	X-6124-12
F3_CR	X-6124-12
F3_CR	X-6124-13
F3_CR	X-6137-5
F3_FU1	X-6129-16
F3_FU1	X-6135-6
F3_FU2	X-6129-16
F3_FU2	X-6135-6
F3_TR	X-6137-5
F3_TR	X-6124-13
F3_TR	X-6124-12
F4_CR	X-6124-12
F4_CR	X-6124-13
F4_CR	X-6137-5
F4_FU1	X-6129-16
F4_FU1	X-6135-6
F4_FU2	X-6135-6
F4_FU2	X-6129-16
F4_TR	X-6137-5
F4_TR	X-6124-13
F4_TR	X-6124-12
F5_CR	X-6124-12
F5_CR	X-6124-13
F5_CR	X-6137-5
F5_FU1	X-6129-16
F5_FU1	X-6135-6
F5_FU2	X-6135-6
F5_FU2	X-6129-16
F5_TR	X-6137-5
F5_TR	X-6124-13
F5_TR	X-6124-12
F6_CR	X-6124-12
F6_CR	X-6124-13
F6_CR	X-6137-5
F6_FU1	X-6129-16
F6_FU1	X-6135-6
F6_FU2	X-6135-6
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F6_TR	X-6137-5
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F6_TR	X-6124-12
G1_FU4	294552
G1_FU4	X-6129-29
G1_FU5	X-6135-1
G1_FU5	X-6129-20
G1_FU6	294552
G1_FU6	X-6129-28
G1_FU7	X-6135-1
G1_FU7	X-6129-16
G1_STB2	X-6126-25
PT1	346258
PT1	X-50-8
PT1	X-6121-90
PT2	X-6121-90
PT2	X-50-8
PT2	346258
PT3	346258
PT3	X-50-8
PT3	X-6121-90

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:	ES NO.:
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.	
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE
C	7-21-10	AS BUILT [90178]	RTR	RTR	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	RMB	1-5-10
				RMB	4-8-10

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TITLE: PANEL LAYOUT SECTION 2 (FEEDERS 5&6, GEN 1)

SCALE: 1"=1'-0"

PLOTTED: [ ]

CAD NO. [ ]

DWG. NO. [ ]

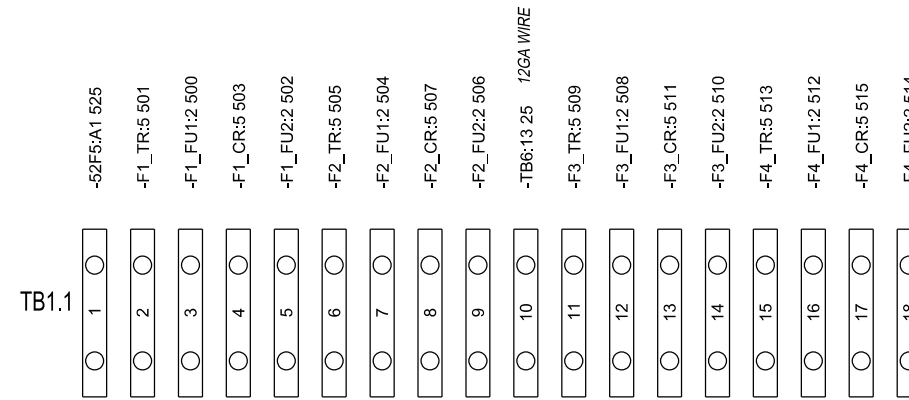
SHEET 69 OF 179

SGP-1350

SECTION/FUNCTION  
2

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

UPPER WIRE CHANNEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.                  THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND                  MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.                  ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		TITLE WIRING DIAG. SECTION 2 (FEEDERS 5&6, GEN 1)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	SHEET
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN		1-5-10	E 70 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
SECTION/FUNCTION 2			APPROVED		RMB	1-5-10	PRINTED SGP-1350

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

UPPER WIRE CHANNEL

TB1.3

○	1	○	-G1_FU7:2 G1456
○	2	○	-PT3:X2 G1457
○	3	○	-G1_STB1:6A G1300
○	4	○	-G1_STB1:2A G1300
○	5	○	-G1_STB1:1A G1301
○	6	○	-G1_STB1:3A G1302
○	7	○	-G1_STB1:5A G1303
○	8	○	-G1_FU5:2 G1409
○	9	○	-PT1:X2 G1410
○	10	○	-G1_FU5:4 G1411
○	11	○	-52G1:B20 G1GND
○	12	○	-52G1:B21 G1124
○	13	○	-52G1:C2 G1630
○	14	○	-52G1:B25 G1101
○	15	○	-52G1:A2 G1102
○	16	○	-52G1:C3 G1103
○	17	○	-52G1:A14 G1128
○	18	○	-52G1:B10 G1129
○	19	○	-52G1:B14 25
○	20	○	-52G1:C4 G1128
○	21	○	-52G1:B12 G1138
○	22	○	-52G1:B15 G1133
○	23	○	-52G1:C5 G1131
○	24	○	-G1_STB2:2R G1350
○	25	○	-G1_STB2:1R G1351
○	26	○	-52F5:B25 543
○	27	○	-52F5:A2 544
○	28	○	-52F5:C3 545
○	29	○	-52F6:B25 546
○	30	○	-52F6:A2 547
○	31	○	-52F6:C3 548
○	32	○	-F1_CR:14 551
○	33	○	-F1_TR:14 552
○	34	○	-F2_CR:14 553
○	35	○	-F2_TR:14 554
○	36	○	-F3_CR:14 555
○	37	○	-F3_TR:14 556
○	38	○	-F4_CR:14 557
○	39	○	-F4_TR:14 558
○	40	○	-F5_CR:14 559
○	41	○	-F5_TR:14 560
○	42	○	-F6_CR:14 561
○	43	○	-F6_TR:14 562
○	44	○	-F6_TR:13 25
○	45	○	

TB5.1

○	1	○	-TB6:1 24 12GA WIRE
○	2	○	-TB6:13 25 12GA WIRE
○	3	○	-52G1:A28 G1132
○	4	○	-52G1:B23 G1139
○	5	○	
○	6	○	

SECTION/FUNCTION  
2

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
CHECKED		RMB	1-5-10
APPROVED		RMB	1-5-10

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ES-90645
ITEM	SWGR
APPROVALS	DATE
DRAWN	RTR
DATE	1-5-10
CAD NO.	
DWG. NO.	SGP-1350

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TITLE  
**WIRING DIAG. SECTION 2  
(FEEDERS 5&6, GEN 1)**

SCALE  
1"=10'

SHEET  
E 71 OF 179

PRINTED  
D

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

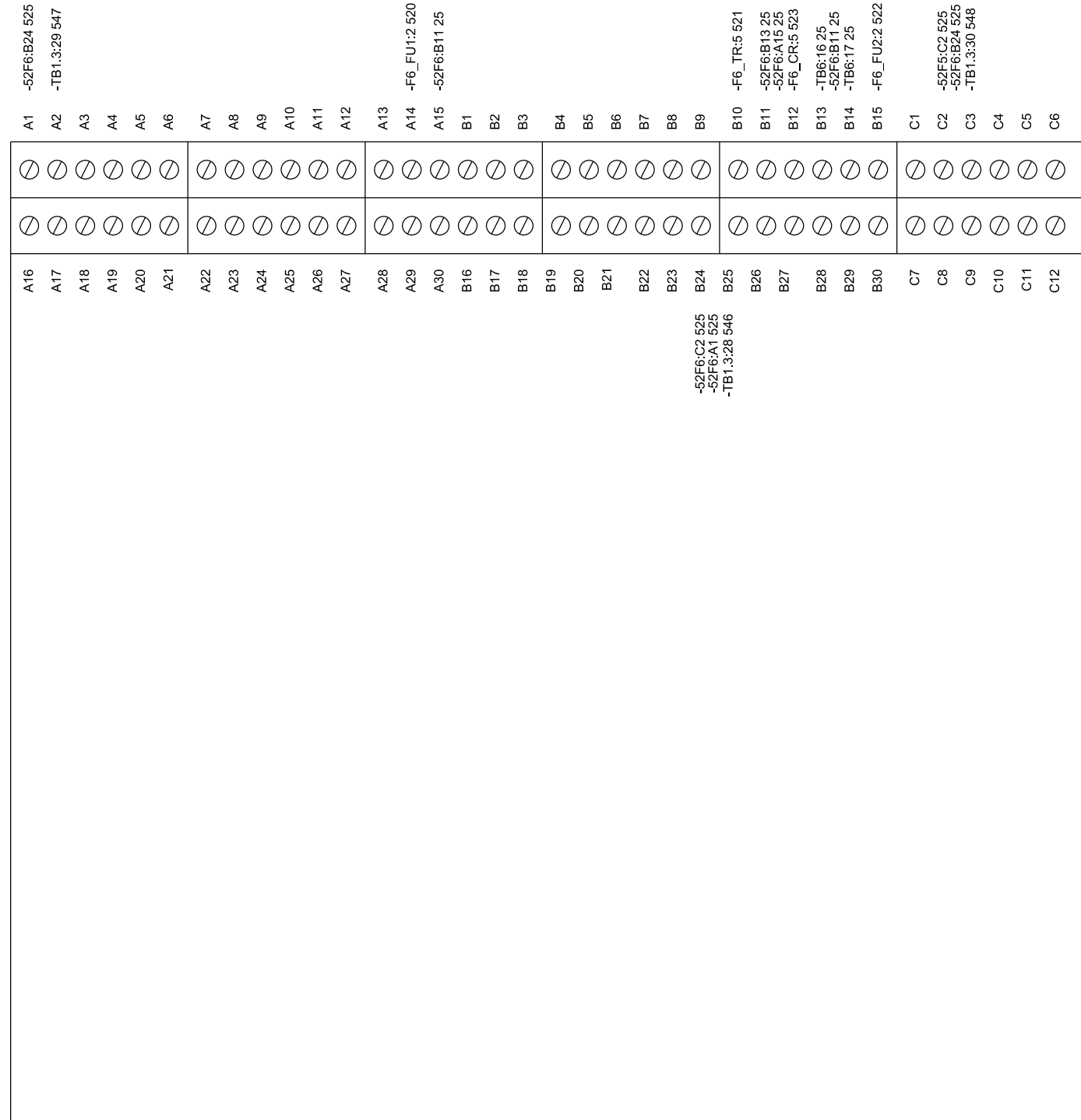


**BREAKER AREA**

52F5



52F6



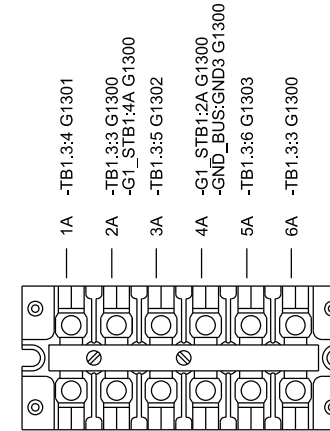
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	<b>KOHLER CO</b> POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM: SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB 1-5-10
				APPROVED	RMB 1-5-10
SECTION/FUNCTION	2			SCALE	CAD NO.
	2			PLOTTED	DWG. NO.
	2			SHEET	E 72 OF 179
	2			D	

**BREAKER AREA**

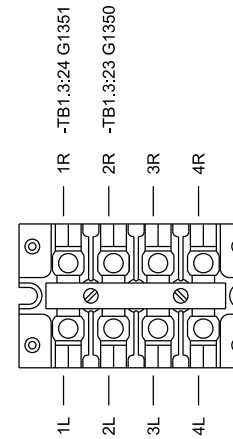
52G1

A1	-52G1:B24 G1630	⊗	A16		⊗	C7	
A2	-TB1.3:14 G1102	⊗	A17		⊗	C8	
A3		⊗	A18		⊗	C9	
A4		⊗	A19		⊗	C10	
A5		⊗	A20		⊗	C11	
A6		⊗	A21		⊗	C12	
A7		⊗	A22		⊗		
A8		⊗	A23		⊗		
A9		⊗	A24		⊗		
A10		⊗	A25		⊗		
A11		⊗	A26		⊗		
A12		⊗	A27	-52G1:B26 G1128	⊗		
A13		⊗	A28	-TB5.1:3 G1132	⊗		
A14	-TB1.3:16 G1128	⊗	A29		⊗		
A15	-52G1:B11 25	⊗	A30		⊗		
B1		⊗	B16		⊗		
B2		⊗	B17		⊗		
B3		⊗	B18		⊗		
B4		⊗	B19		⊗		
B5		⊗	B20	-TB1.3:10 G1GND	⊗		
B6		⊗	B21	-TB1.3:11 G1124	⊗		
B7		⊗	B22	-52G1:B15 G1133	⊗		
B8		⊗	B23	-TB5.1:4 G1139	⊗		
B9		⊗	B24	-52G1:C2 G1630	⊗		
B10	-TB1.3:17 G1129	⊗	B25	-52G1:A1 G1630	⊗		
B11	-52G1:A15 25	⊗	B26	-TB1.3:13 G1101	⊗		
B12	-52G1:B13 25	⊗	B27	-52G1:C4 G1128	⊗		
B13	-TB1.3:20 G1138	⊗	B28	-52G1:A27 G1128	⊗		
B14	-52G1:B11 25	⊗	B29	-52G1:C5 G1131	⊗		
B15	-52G1:B14 25	⊗	B30		⊗		
	-52G1:B13 25	⊗			⊗		
	-TB1.3:18 25	⊗			⊗		
	-TB1.3:21 G1133	⊗			⊗		
	-52G1:B22 G1133	⊗			⊗		
C1		⊗			⊗		
C2	-TB1.3:12 G1630	⊗			⊗		
C3	-52G1:B24 G1630	⊗			⊗		
C4	-TB1.3:15 G1103	⊗			⊗		
C5	-TB1.3:19 G1128	⊗			⊗		
C6	-52G1:B26 G1128	⊗			⊗		
	-52G1:B27 G1131	⊗			⊗		
	-TB1.3:22 G1131	⊗			⊗		

G1\_STB1



G1\_STB2



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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR	TITLE WIRING DIAG. SECTION 2 (FEEDERS 5&6, GEN 1)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET E 73 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10	DWG. NO. SGP-1350	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10	PRINTED	

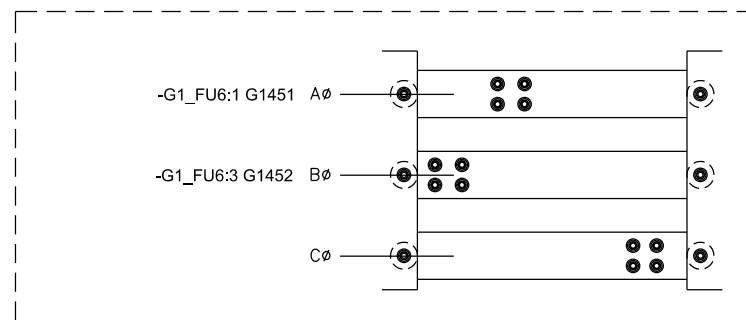
SECTION/FUNCTION  
2

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# REAR BUS AREA

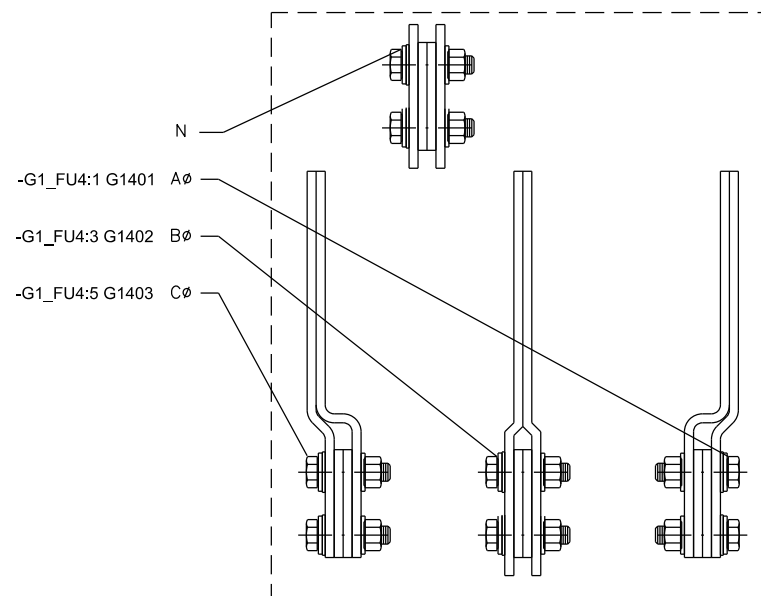
## X\_BUS

(AS SHOWN FROM REAR)



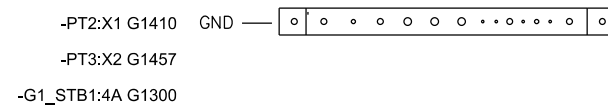
## GEN1\_BUS

(AS SHOWN FROM REAR)



## GND\_BUS

(AS SHOWN FROM REAR)

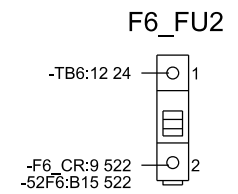
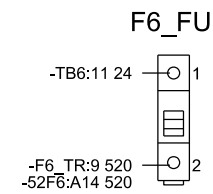
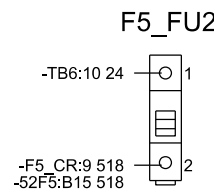
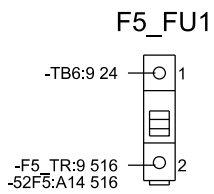
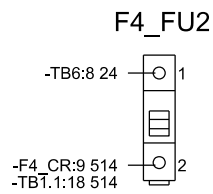
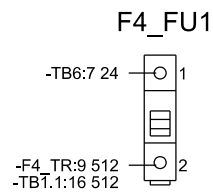
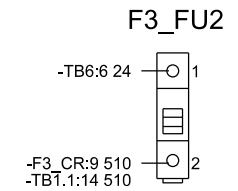
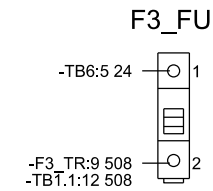
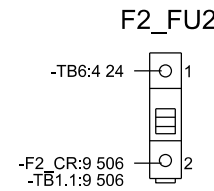
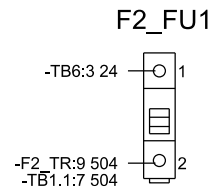
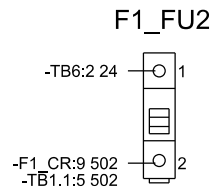
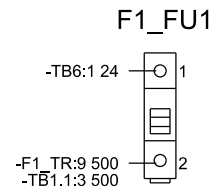
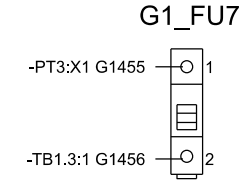
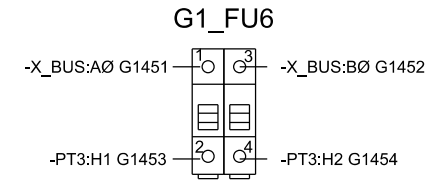
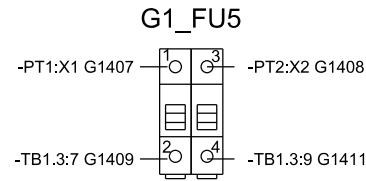
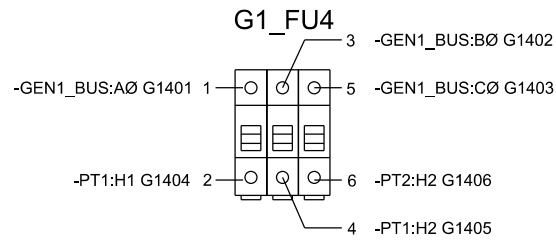
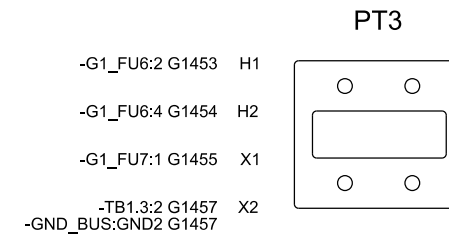
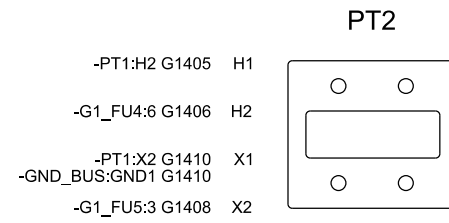
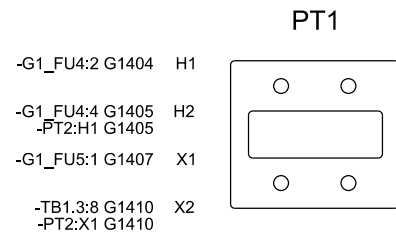


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. SECTION 2 (FEEDERS 5&6, GEN 1)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	SHEET	E 74 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION  
2

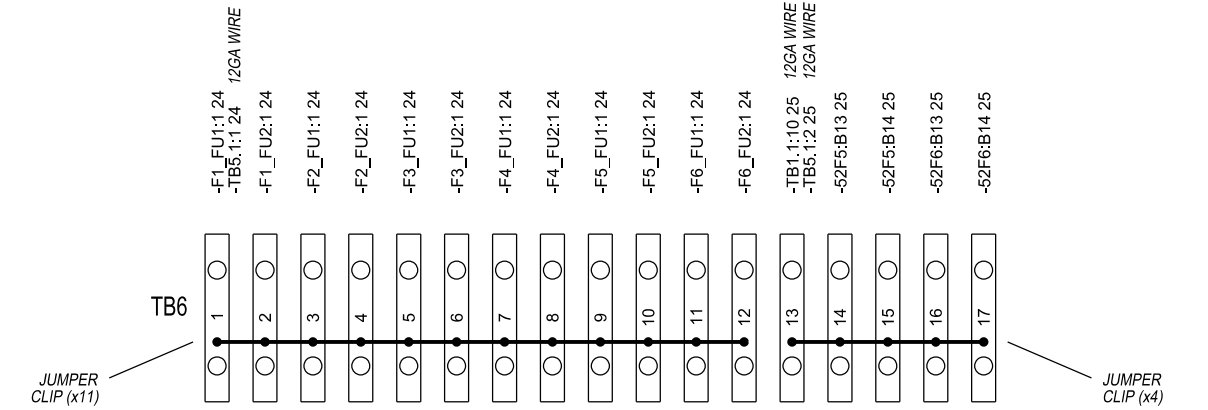
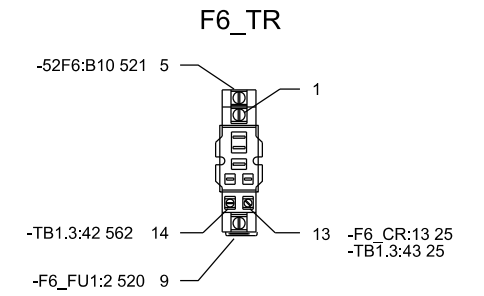
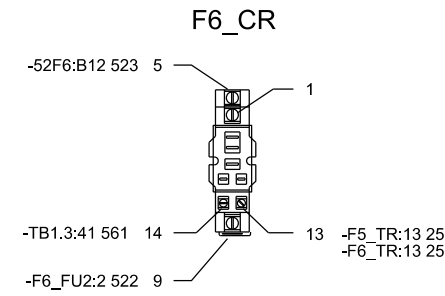
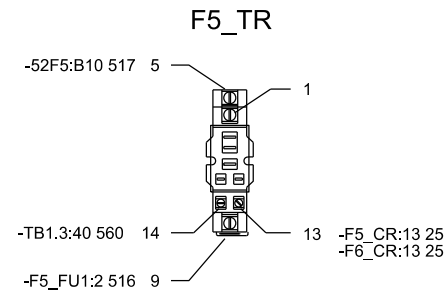
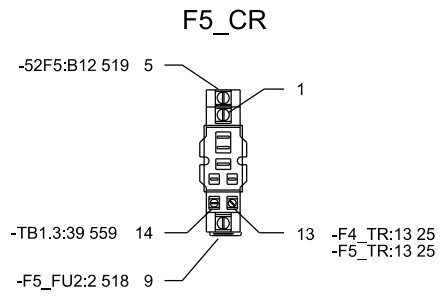
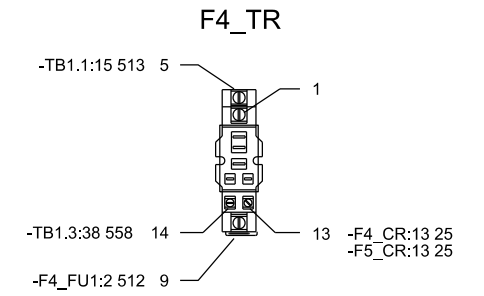
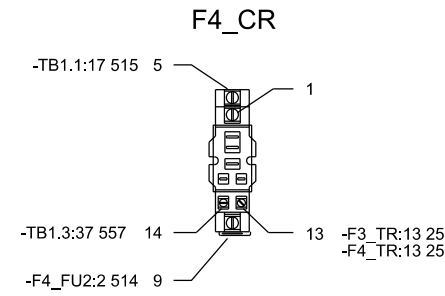
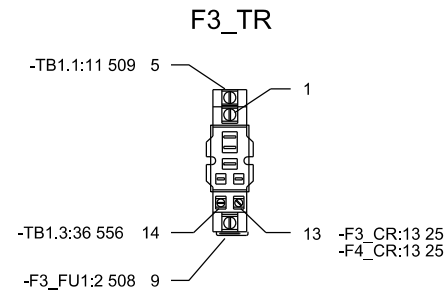
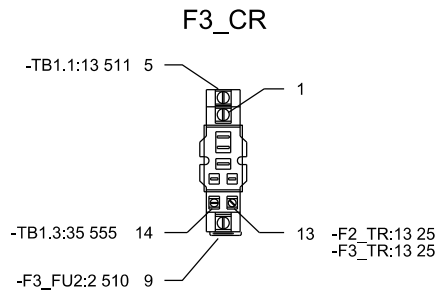
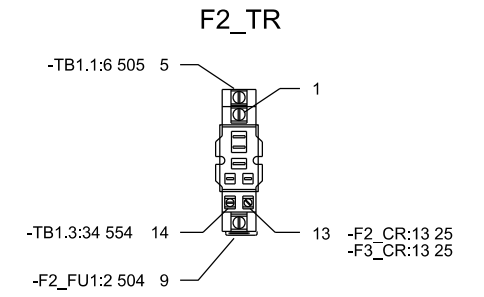
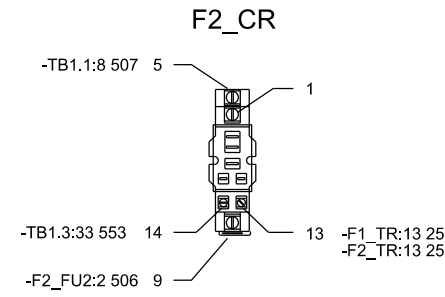
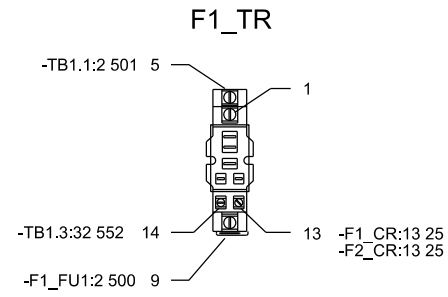
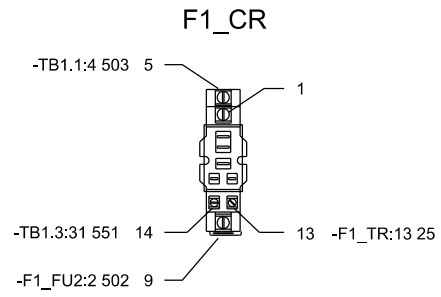
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACK PANEL



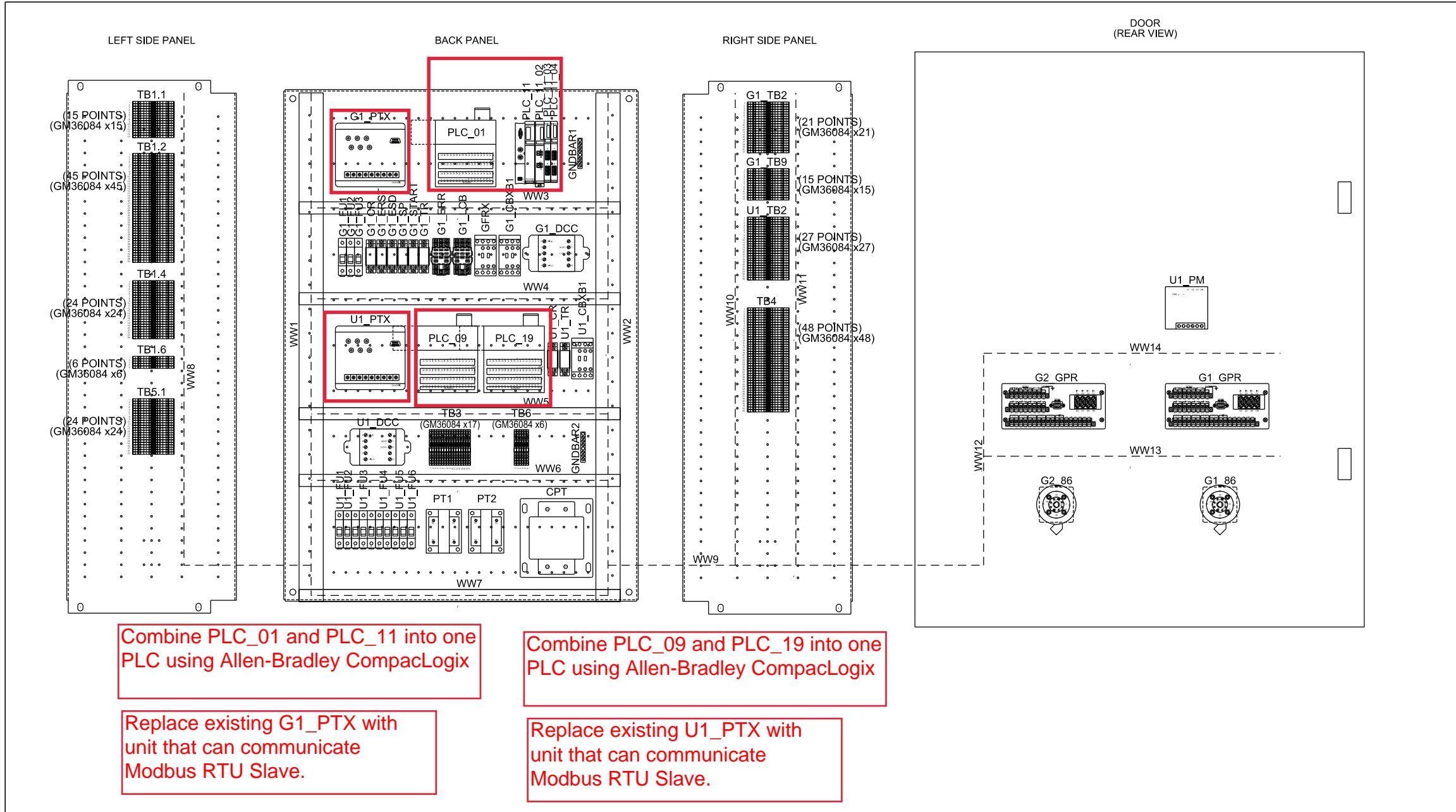
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b> POWER SYSTEMS, KOHLER, WI 53044 U.S.A. <small>THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	TITLE: WIRING DIAG. SECTION 2 (FEEDERS 5&6, GEN 1)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS DATE			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR 1-5-10		SCALE	SHEET E 75 OF 179 DWG. NO. SGP-1350
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB 1-5-10		APPROVED RMB 1-5-10	
SECTION/FUNCTION 2				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			

# BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		ES NO.: ES-90645		ITEM: SWGR	
REV	DATE	REVISION	BY	APPROVALS	DATE	TITLE: WIRING DIAG. SECTION 2 (FEEDERS 5&6, GEN 1)		SCALE	CAD NO.	SHEET	76 OF 179
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR								
A	1-27-10	FOR APPROVAL [89286]	PJL								
B	5-14-10	FOR MANUFACTURING [89803]	RTR								
C	7-21-10	AS BUILT [90178]	RTR								
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM								
			CHECKED	RMB	1-5-10						
			APPROVED	RMB	1-5-10						
SECTION/FUNCTION 2			PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SGP-1350		D				

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Device ID	Part Number	Device ID	Part Number
CPT	X-6121-118	PLC_19	X-6429-9
CPT	320828	PLC_19	GM14137
G1_86	X-6155-6	PT1	X-6121-90
G1_CAB1	2021901318	PT1	346258
G1_CAB2	2021901318	PT1	X-50-8
G1_CBXB1	ES-41140	PT2	X-6121-90
G1_CONN	GM23792	PT2	346258
G1_CR	X-6137-5	PT2	X-50-8
G1_CR	X-6124-12	U1_CBXB1	ES-41140
G1_CR	X-6124-13	U1_CR	X-6137-5
G1_DCC	GM46869	U1_CR	X-6124-12
G1_DCC	GM47008	U1_CR	X-6124-13
G1_DCC	GM47021	U1_DCC	GM46869
G1_DCC	X-49-43	U1_DCC	GM47008
G1_DCC	X-22-24	U1_DCC	GM47021
G1_ERR	X-6124-4	U1_DCC	X-49-43
G1_ERR	X-6124-5	U1_DCC	X-22-24
G1_ERR	291309	U1_FU1	X-6129-16
G1_ERST	X-6137-5	U1_FU1	X-6135-6
G1_ERST	X-6124-12	U1_FU2	X-6129-16
G1_ERST	X-6124-13	U1_FU2	X-6135-6
G1_ESD	X-6137-5	U1_FU3	X-6129-29
G1_ESD	X-6124-12	U1_FU3	294552
G1_ESD	X-6124-13	U1_FU4	X-6129-20
G1_FU1	X-6129-16	U1_FU4	X-6135-1
G1_FU1	X-6135-6	U1_FU5	X-6129-28
G1_FU2	X-6129-16	U1_FU5	X-6135-41
G1_FU2	X-6135-6	U1_FU6	X-6129-16
G1_FU3	X-6129-16	U1_FU6	X-6129-16
G1_FU3	X-6135-6	U1_PM	X-6170-48
G1_GPR	X-6156-117	U1_PTX	353123
G1_GPR	X-6156-115	U1_PTX	GM22864
G1_LCB	291309	U1_PTX	X-6429-10
G1_LCB	X-6124-4	U1_TR	X-6137-5
G1_LCB	X-6124-5	U1_TR	X-6124-12
G1_PT	X-6429-9	U1_TR	X-6124-13
G1_PT	353123		
G1_PTX	GM22864		
G1_SP	X-6137-5		
G1_SP	X-6124-12		
G1_SP	X-6124-13		
G1_START	X-6137-5		
G1_START	X-6124-12		
G1_START	X-6124-13		
G1_TR	X-6137-5		
G1_TR	X-6124-12		
G1_TR	X-6124-13		
G2_86	X-6155-6		
G2_GPR	X-6156-117		
G2_GPR	X-6156-115		
GFRX	ES-41140		
GNDBAR1	GM12266		
GNDBAR2	GM12266		
PLC_01	GM14124		
PLC_01	GM22866		
PLC_01	GM14130		
PLC_01	X-6429-9		
PLC_01	GM14133		
PLC_09	GM14134		
PLC_09	GM14124		
PLC_09	GM14131		
PLC_09	X-6429-9		
PLC_11	GM45909		
PLC_11	X-6429-9		
PLC_11	GM39245		
PLC_11_02	GM39246		
PLC_11_02	GM39256		
PLC_11_02	GM45910		
PLC_11_03	GM39251		
PLC_11_03	GM45911		
PLC_11_03	GM39257		
PLC_11_04	GM39248		
PLC_11_04	GM39257		
PLC_11_04	GM45911		
PLC_19	GM14124		
PLC_19	GM14131		

Combine PLC\_01 and PLC\_11 into one PLC using Allen-Bradley CompacLogix

Combine PLC\_09 and PLC\_19 into one PLC using Allen-Bradley CompacLogix

Replace existing G1\_PTX with unit that can communicate Modbus RTU Slave.

Replace existing U1\_PTX with unit that can communicate Modbus RTU Slave.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ES-90645
ITEM	SWGR
APPROVALS	DATE
DRAWN	RTR
CHECKED	RMB
APPROVED	RMB

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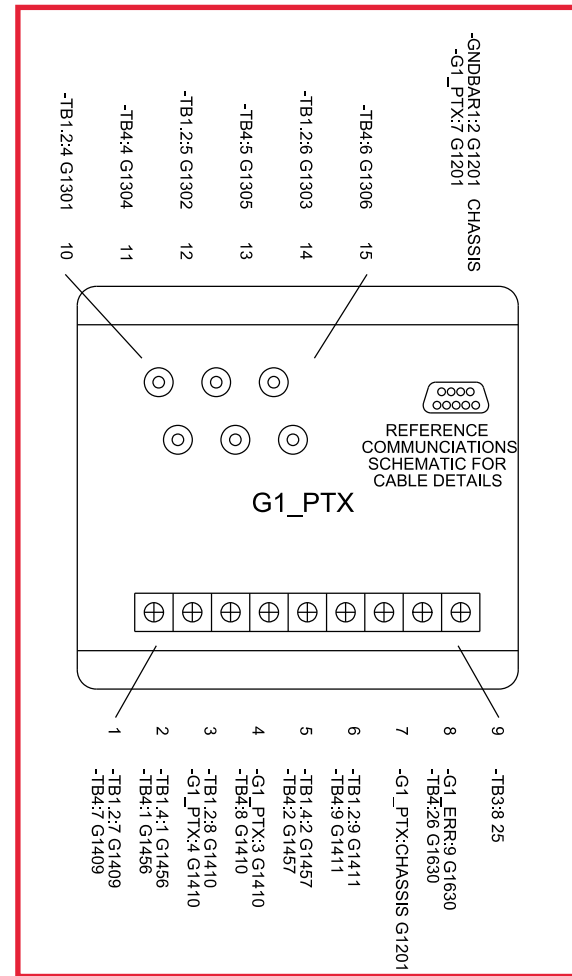
TITLE: **PANEL LAYOUT SECTION 3 (UTILITY 1 / GEN 1)**

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET: **E 77** OF 179

PLOTTED \_\_\_\_\_ DWG. NO. \_\_\_\_\_

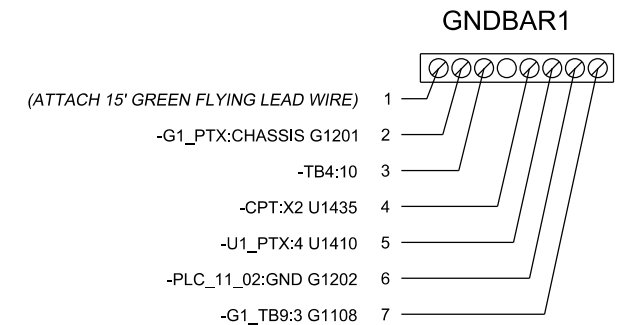
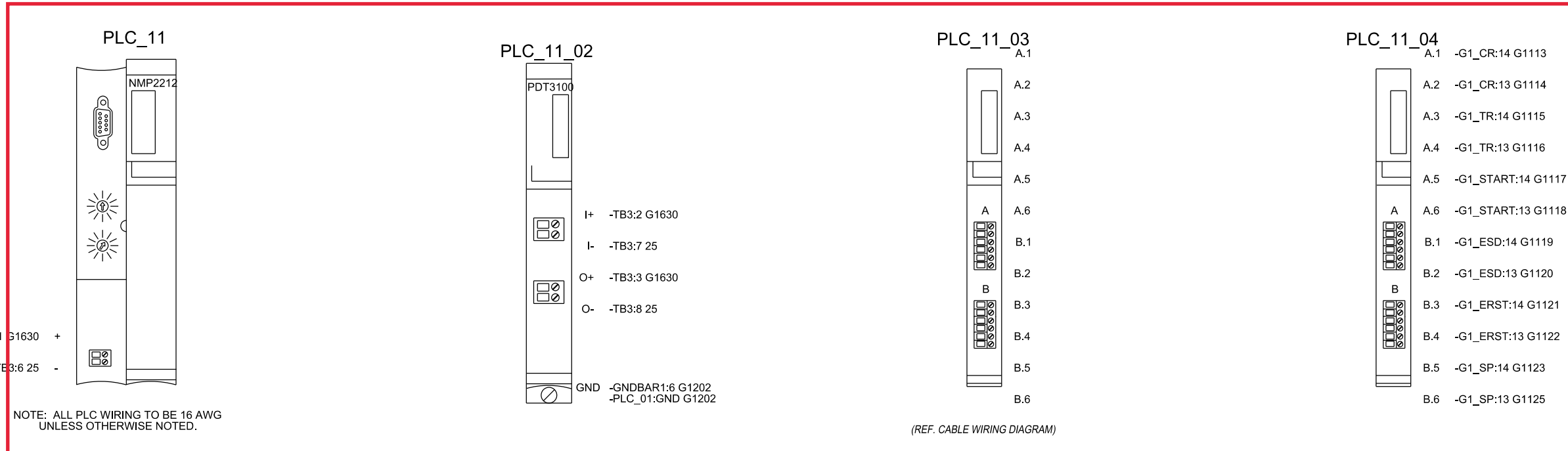
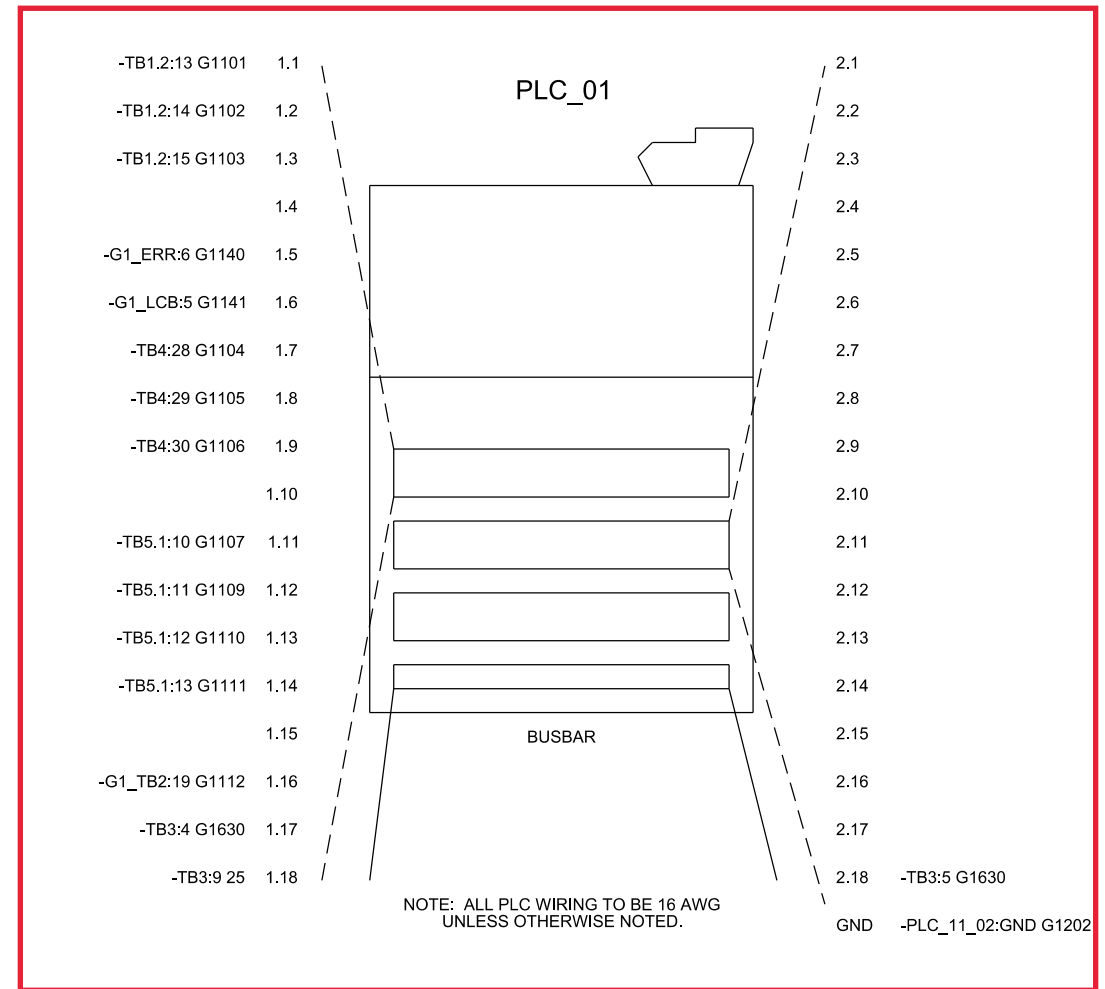
SGP-1350 D

BACKPANEL



Combine PLC\_01 and PLC\_11 into one PLC using Allen-Bradley CompacLogix

Replace existing G1\_PTX with unit that can communicate Modbus RTU Slave.

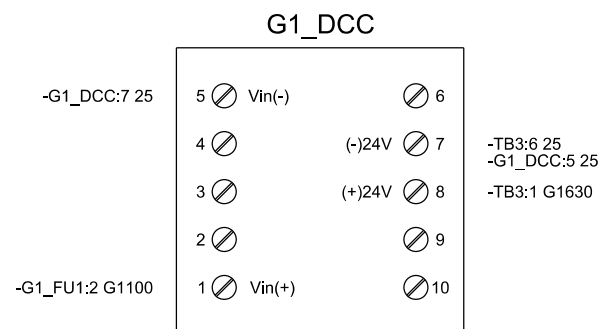
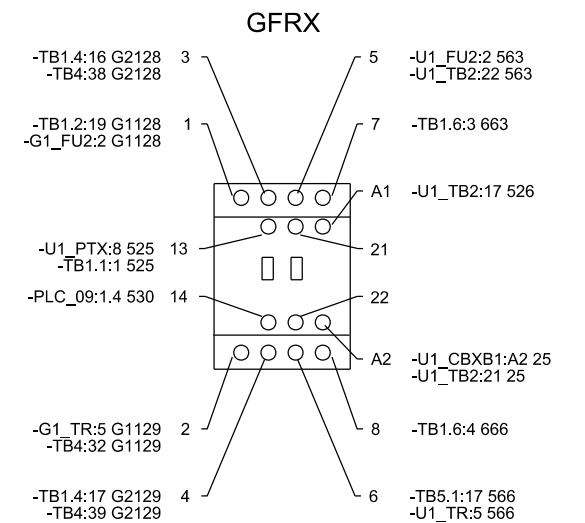
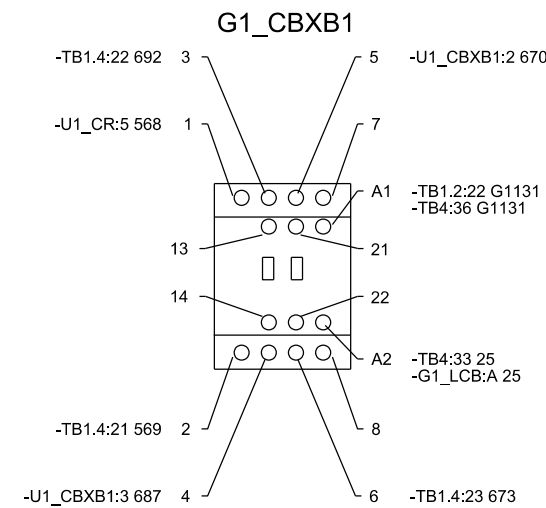
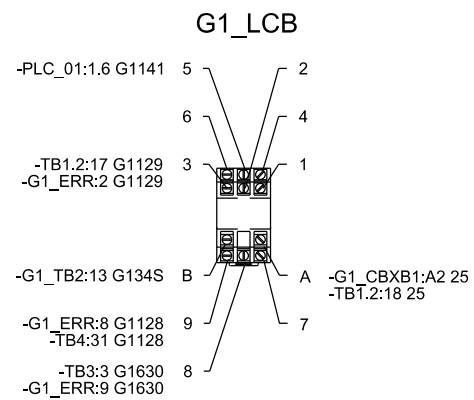
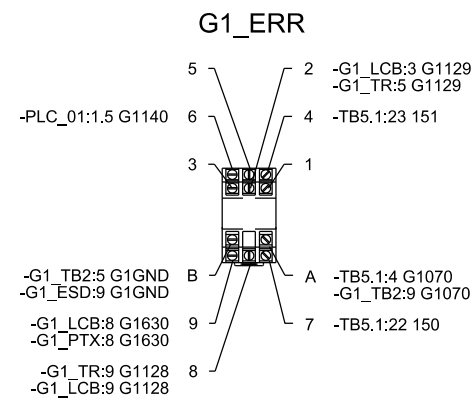
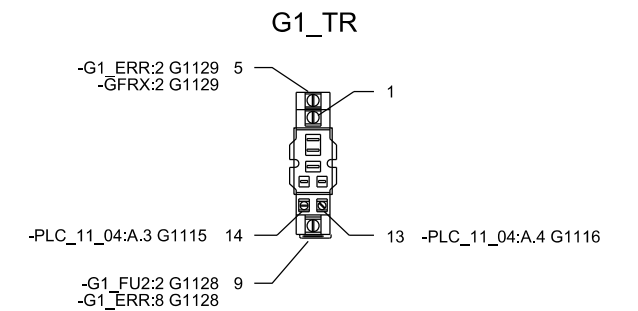
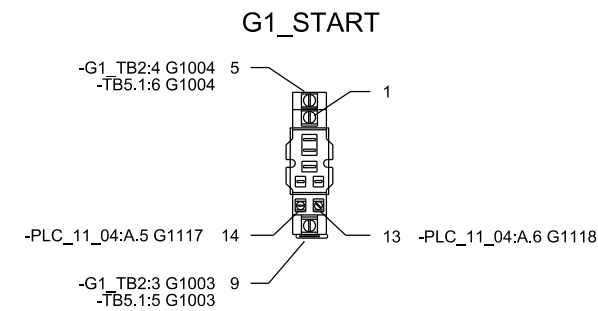
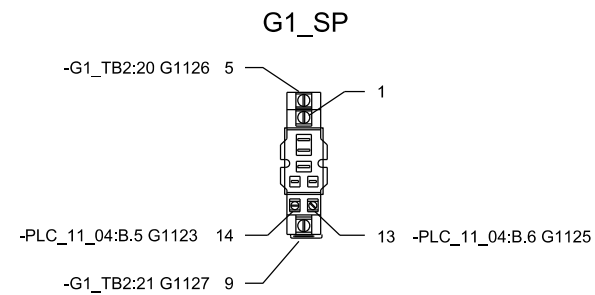
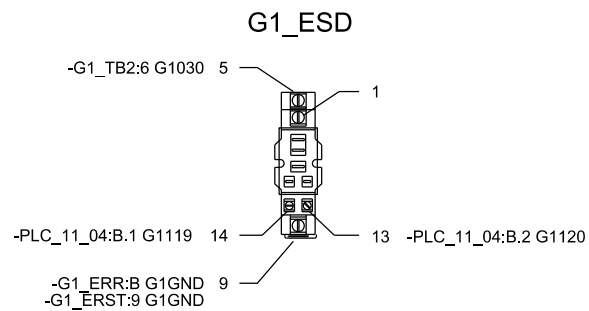
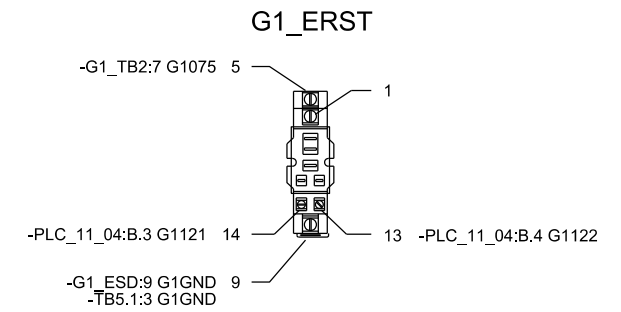
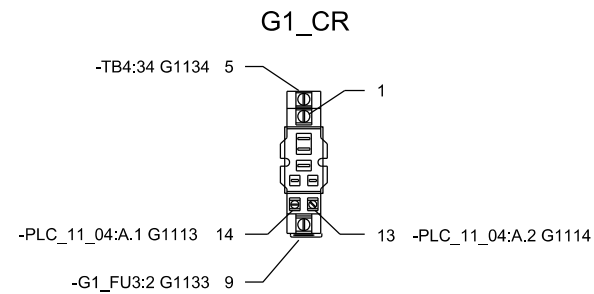
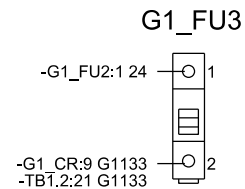
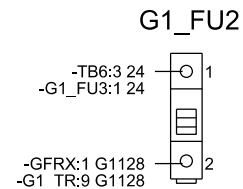
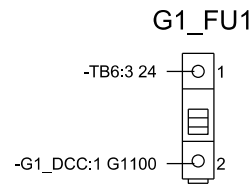


CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.		
A	1-27-10	FOR APPROVAL [89286]	PJL	ES NO.:	ITEM	SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10

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TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)			
SCALE	CAD NO.	DWG. NO.	SHEET E 78 OF 179
		SGP-1350	D

# BACKPANEL

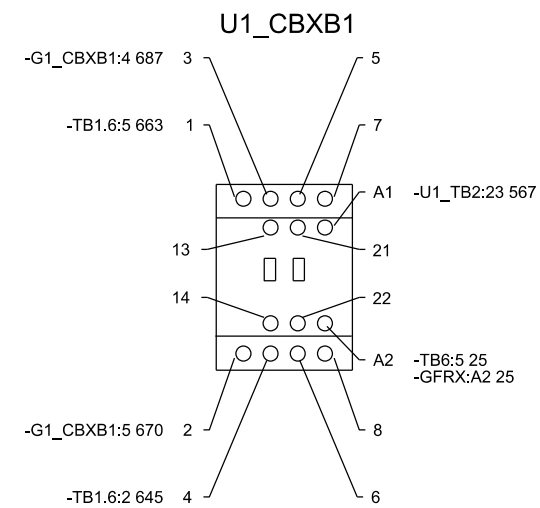
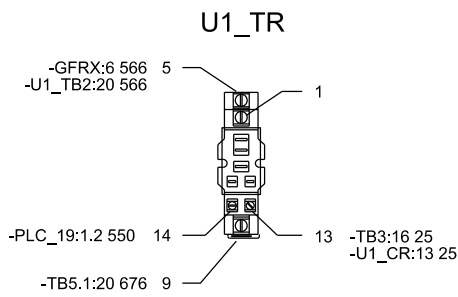
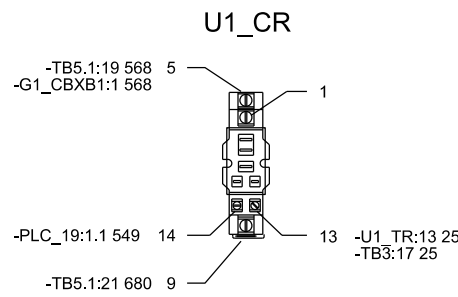
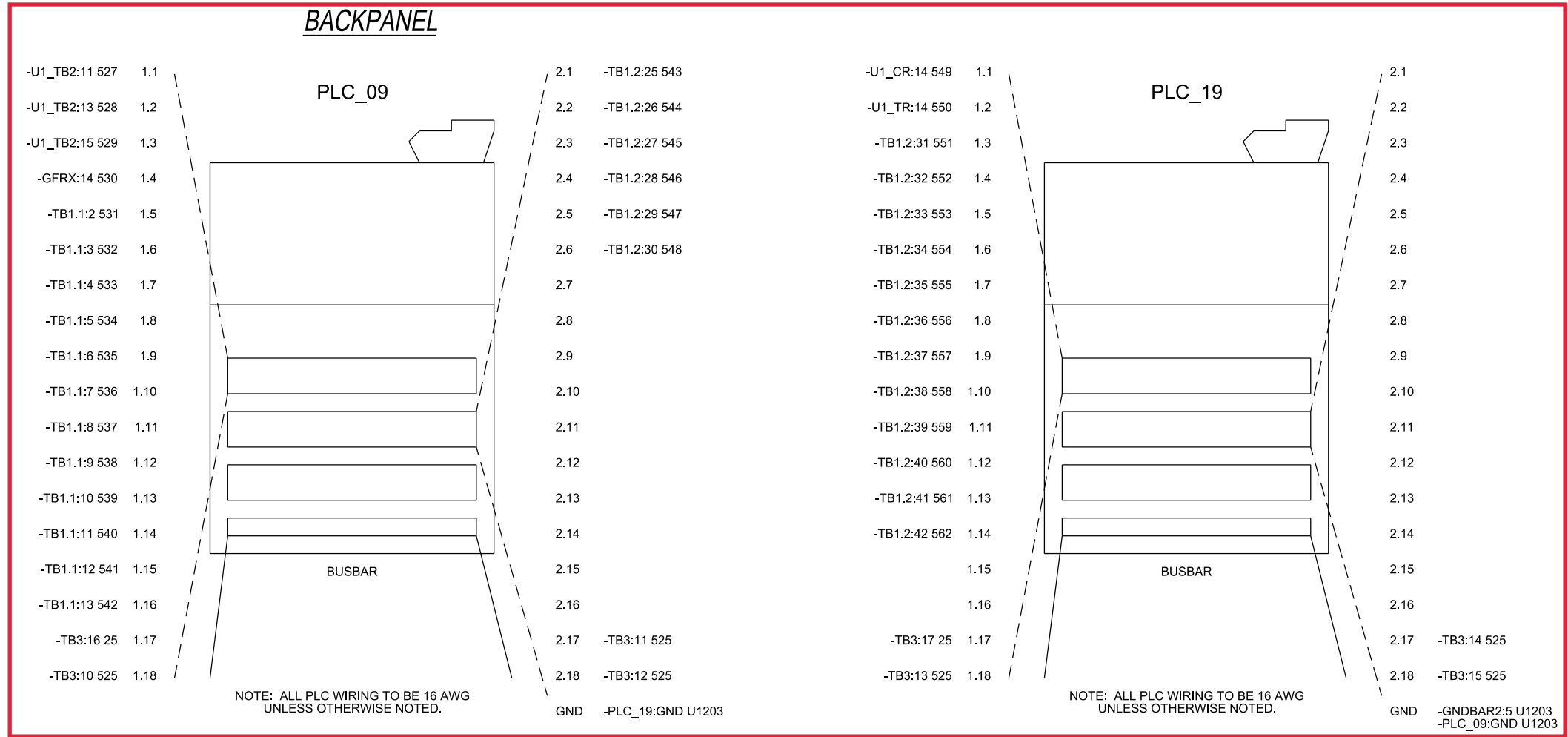
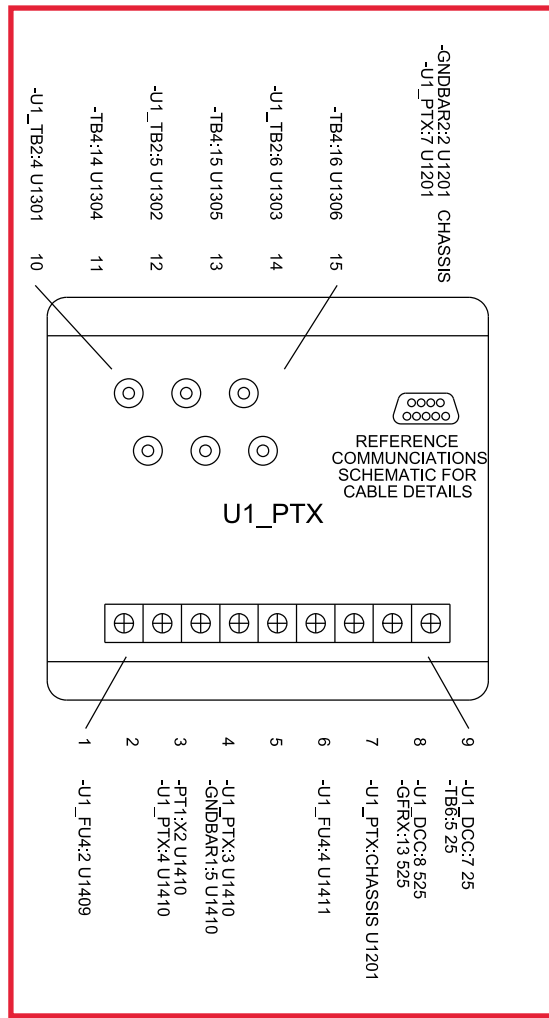


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.	SHEET 79 OF 179	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	DRAWN RTR 1-5-10		PLOTTED	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVED	DATE	CHECKED RMB 1-5-10		DWG. NO. SGP-1350	
C	7-21-10	AS BUILT [90178]	RTR	APPROVED	DATE	APPROVED RMB 1-5-10		PRINTED	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM						

SECTION/FUNCTION 3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED





Combine PLC\_09 and PLC\_19 into one PLC using Allen-Bradley CompacLogix

Replace existing U1\_PT X with unit that can communicate Modbus RTU Slave.

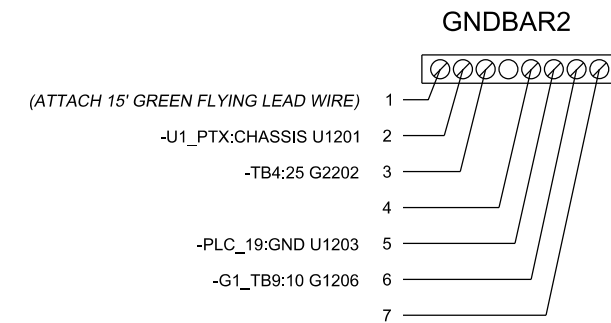
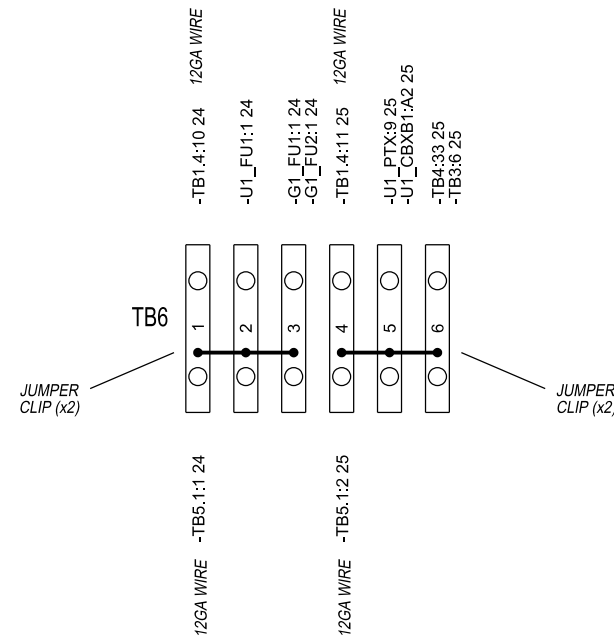
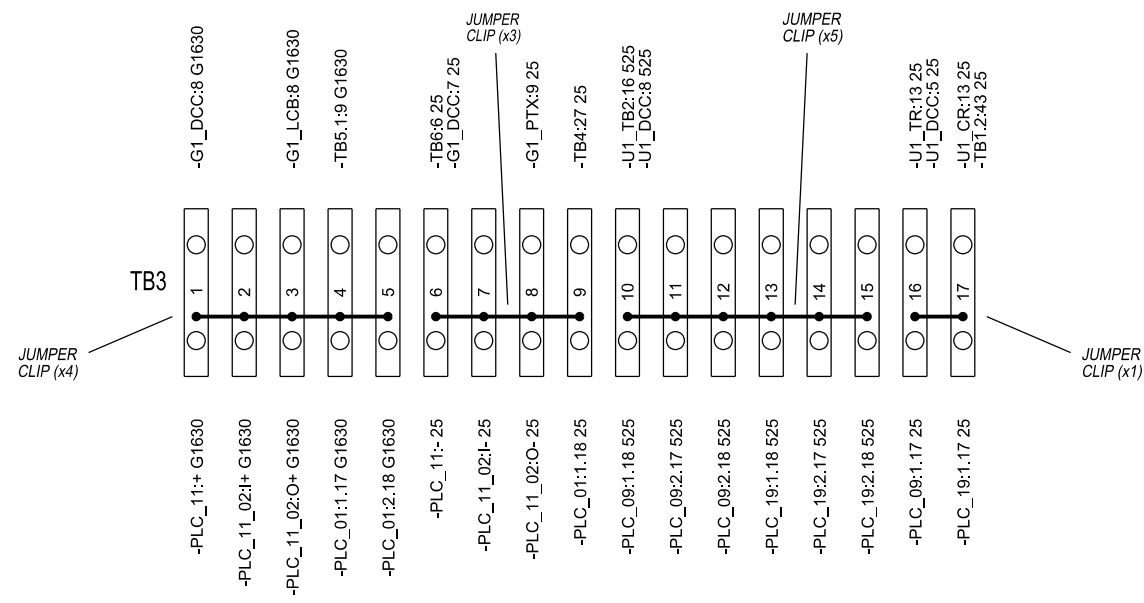
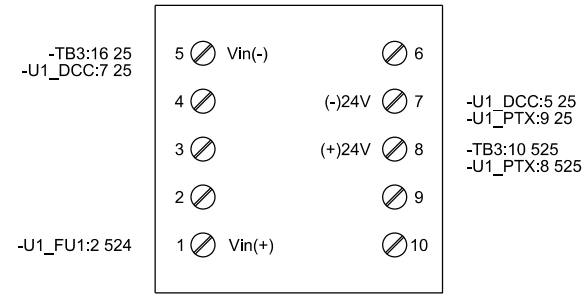
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE		SCALE: CAD NO. SHEET E 00 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	PLOTTED
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO. SGP-1350
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	PRINTED

SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACK PANEL

## U1\_DCC



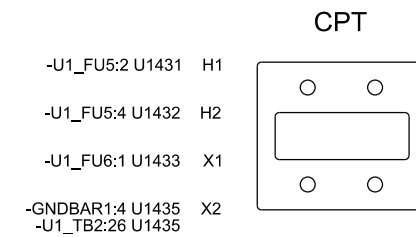
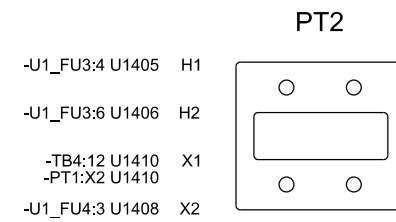
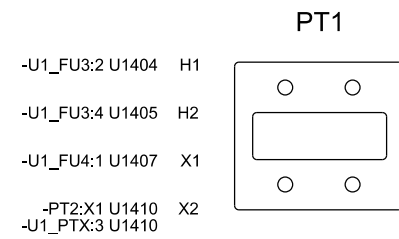
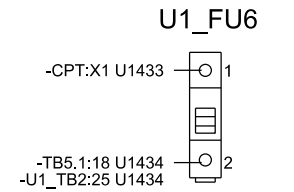
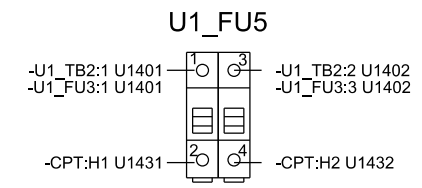
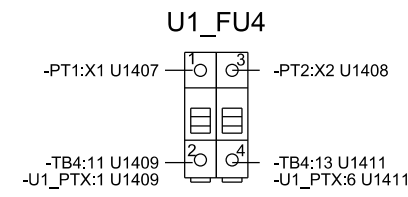
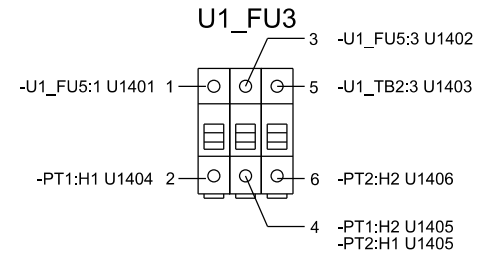
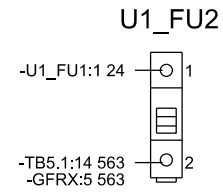
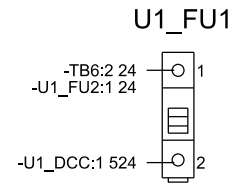
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	DATE	SHEET E 81 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	PLOTTED
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION 3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 D

# BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL			DATE	SHEET E 82 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR			SCALE	CAD NO.
C	7-21-10	AS BUILT [90178]	RTR			DATE	SHEET
				CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER LEFTPAN

## TB1.1

○ 1 ○	-GFRX:13 525
○ 2 ○	-PLC_09:1.5 531
○ 3 ○	-PLC_09:1.6 532
○ 4 ○	-PLC_09:1.7 533
○ 5 ○	-PLC_09:1.8 534
○ 6 ○	-PLC_09:1.9 535
○ 7 ○	-PLC_09:1.10 536
○ 8 ○	-PLC_09:1.11 537
○ 9 ○	-PLC_09:1.12 538
○ 10 ○	-PLC_09:1.13 539
○ 11 ○	-PLC_09:1.14 540
○ 12 ○	-PLC_09:1.15 541
○ 13 ○	-PLC_09:1.16 542
○ 14 ○	
○ 15 ○	

## TB1.2

○ 1 ○	-TB1.4:1 G1456
○ 2 ○	-TB1.4:2 G1457
○ 3 ○	-TB4:3 G1300
○ 4 ○	-G1_PTX:10 G1301
○ 5 ○	-G1_PTX:12 G1302
○ 6 ○	-G1_PTX:14 G1303
○ 7 ○	-G1_PTX:1 G1409
○ 8 ○	-G1_PTX:3 G1410
○ 9 ○	-G1_PTX:6 G1411
○ 10 ○	-TB5.1:3 G1GND
○ 11 ○	-G1_TB2:8 G1124
○ 12 ○	-TB5.1:9 G1630
○ 13 ○	-PLC_01:1.1 G1101
○ 14 ○	-PLC_01:1.2 G1102
○ 15 ○	-PLC_01:1.3 G1103
○ 16 ○	-TB1.2:19 G1128
○ 17 ○	-G1_LCB:3 G1129
○ 18 ○	-G1_LCB:A 25
○ 19 ○	-TB1.2:16 G1128 -GFRX:1 G1128
○ 20 ○	-TB4:35 G1138
○ 21 ○	-G1_FU3:2 G1133
○ 22 ○	-G1_CBXB1:A1 G1131
○ 23 ○	-U1_TB2:9 G1350
○ 24 ○	-U1_TB2:8 G1351
○ 25 ○	-PLC_09:2.1 543
○ 26 ○	-PLC_09:2.2 544
○ 27 ○	-PLC_09:2.3 545
○ 28 ○	-PLC_09:2.4 546
○ 29 ○	-PLC_09:2.5 547
○ 30 ○	-PLC_09:2.6 548
○ 31 ○	-PLC_19:1.3 551
○ 32 ○	-PLC_19:1.4 552
○ 33 ○	-PLC_19:1.5 553
○ 34 ○	-PLC_19:1.6 554
○ 35 ○	-PLC_19:1.7 555

## TB1.2 (CONTINUED)

○ 36 ○	-PLC_19:1.8 556
○ 37 ○	-PLC_19:1.9 557
○ 38 ○	-PLC_19:1.10 558
○ 39 ○	-PLC_19:1.11 559
○ 40 ○	-PLC_19:1.12 560
○ 41 ○	-PLC_19:1.13 561
○ 42 ○	-PLC_19:1.14 562
○ 43 ○	-TB3:17 25
○ 44 ○	
○ 45 ○	

CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.		
A	1-27-10	FOR APPROVAL [89286]	PJL	ES NO.:	ES-90645	ITEM SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
				CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10

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TITLE <b>WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)</b>		
SCALE	CAD NO.	SHEET E 83 OF 179
DWC NO.		SGP-1350

SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

D

# UPPER LEFTPAN

## TB1.4

○ 1 ○	-TB1.2:1 G1456 -G1_PT_X:2 G1456
○ 2 ○	-TB1.2:2 G1457 -G1_PT_X:5 G1457
○ 3 ○	-TB4:18 G2300
○ 4 ○	-TB4:19 G2304
○ 5 ○	-TB4:20 G2305
○ 6 ○	-TB4:21 G2306
○ 7 ○	-TB4:22 G2409
○ 8 ○	-TB4:23 G2410
○ 9 ○	-TB4:24 G2411
○ 10 ○	-TB6:1 24 12GA WIRE
○ 11 ○	-TB6:4 25 12GA WIRE
○ 12 ○	-TB4:37 G2630
○ 13 ○	-TB4:44 G2104
○ 14 ○	-TB4:45 G2105
○ 15 ○	-TB4:46 G2106
○ 16 ○	-GFRX:3 G2128
○ 17 ○	-GFRX:4 G2129
○ 18 ○	-TB4:40 G2131
○ 19 ○	-TB4:41 25
○ 20 ○	-TB4:43 G2138
○ 21 ○	-G1_CBXB1:2 569
○ 22 ○	-G1_CBXB1:3 692
○ 23 ○	-G1_CBXB1:6 673
○ 24 ○	-TB4:42 G2134

## TB1.6

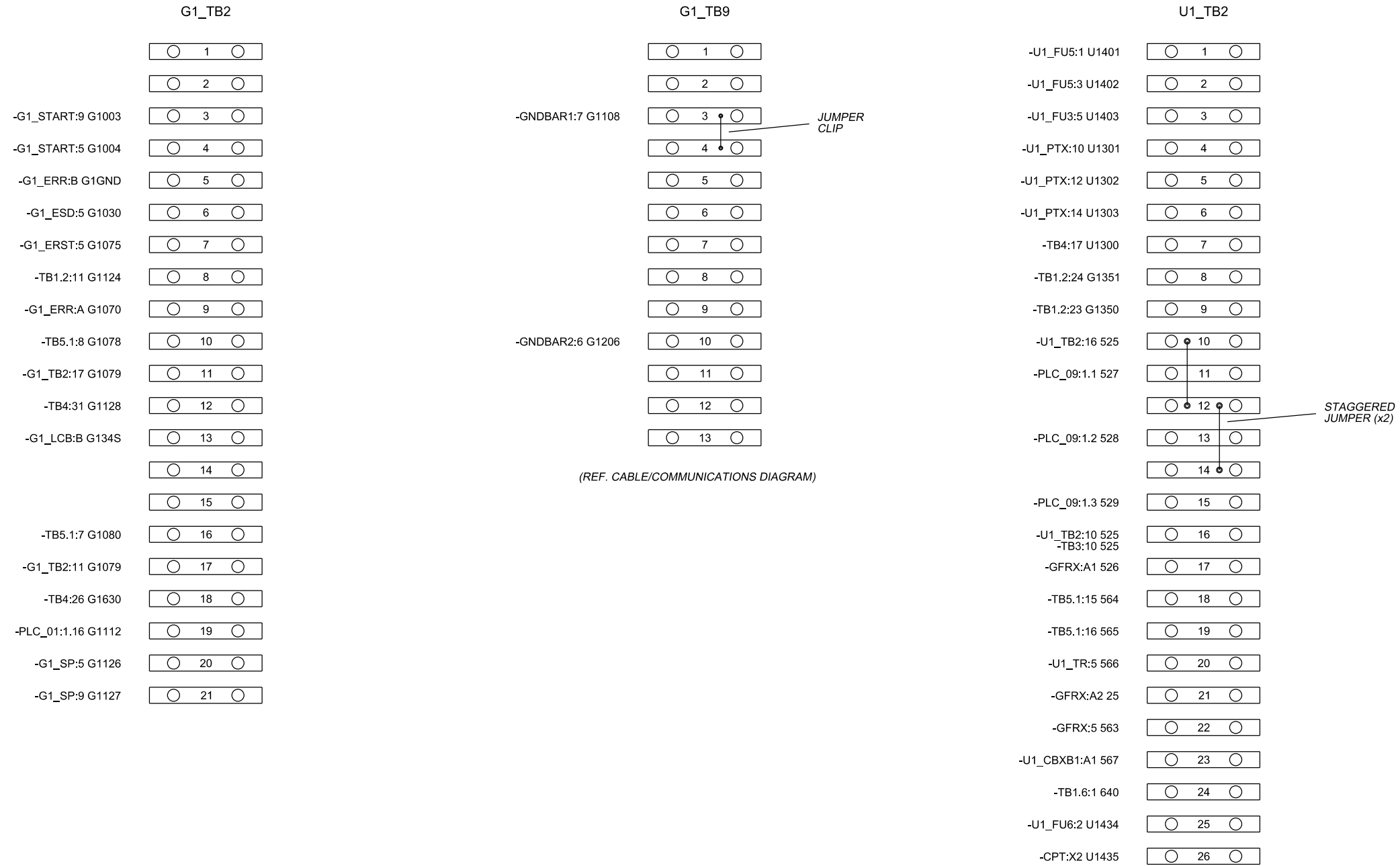
○ 1 ○	-U1_TB2:24 640
○ 2 ○	-U1_CBXB1:4 645
○ 3 ○	-GFRX:7 663
○ 4 ○	-GFRX:8 666
○ 5 ○	-U1_CBXB1:1 663

## TB5.1

○ 1 ○	-TB6:1 24 12GA WIRE
○ 2 ○	-TB6:4 25 12GA WIRE
○ 3 ○	-G1_ERST:9 G1GND -TB1.2:10 G1GND
○ 4 ○	-G1_ERR:A G1070
○ 5 ○	-G1_START:9 G1003
○ 6 ○	-G1_START:5 G1004
○ 7 ○	-G1_TB2:16 G1080
○ 8 ○	-G1_TB2:10 G1078
○ 9 ○	-TB1.2:12 G1630 -TB3:4 G1630
○ 10 ○	-PLC_01:1.11 G1107
○ 11 ○	-PLC_01:1.12 G1109
○ 12 ○	-PLC_01:1.13 G1110
○ 13 ○	-PLC_01:1.14 G1111
○ 14 ○	-U1_FU2:2 563
○ 15 ○	-U1_TB2:18 564
○ 16 ○	-U1_TB2:19 565
○ 17 ○	-GFRX:6 566
○ 18 ○	-U1_FU6:2 U1434
○ 19 ○	-U1_CR:5 568
○ 20 ○	-U1_TR:9 676
○ 21 ○	-U1_CR:9 680
○ 22 ○	-G1_ERR:7 150
○ 23 ○	-G1_ERR:4 151

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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB 1-5-10	
				APPROVED	RMB 1-5-10	SCALE
SECTION/FUNCTION 3			PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			DWC NO. SGP-1350
						SHEET 84 OF 179

# UPPER RIGHTPAN



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1) SCALE: _____ CAD NO.: _____ SHEET: E 85 OF 179 PLOTTED: _____ DWG. NO.: SGP-1350
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN		1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED		1-5-10	
				APPROVED		1-5-10	

SECTION/FUNCTION  
3

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

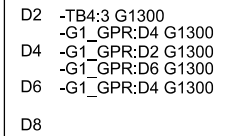
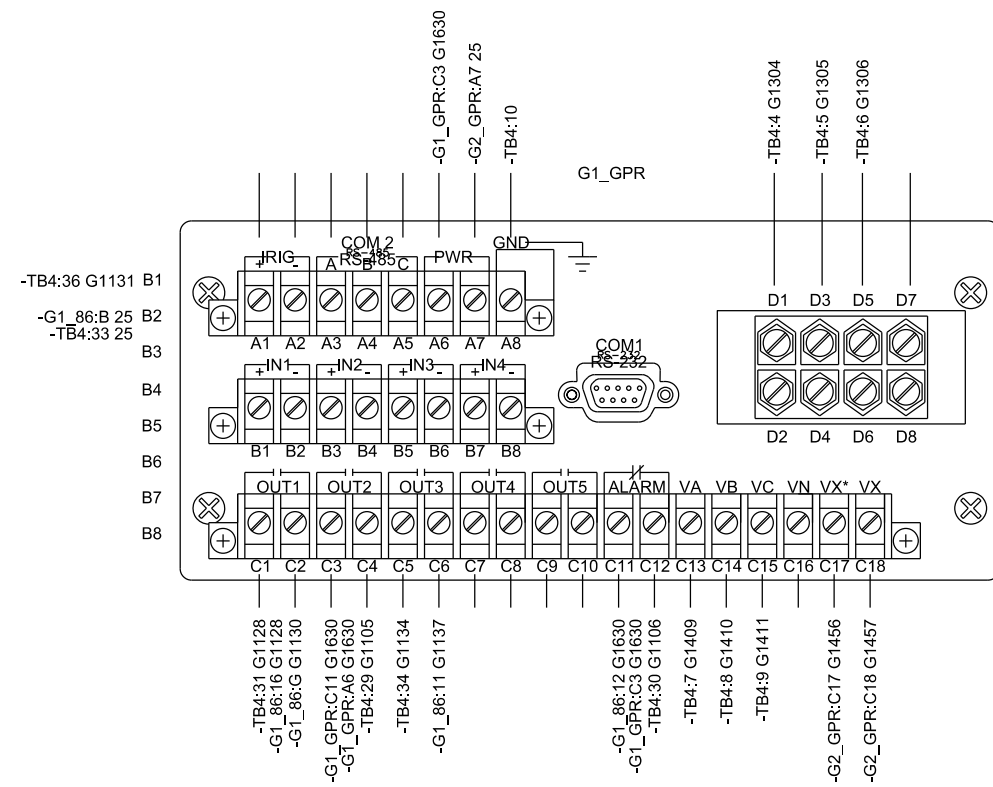
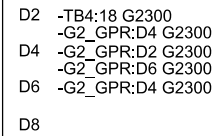
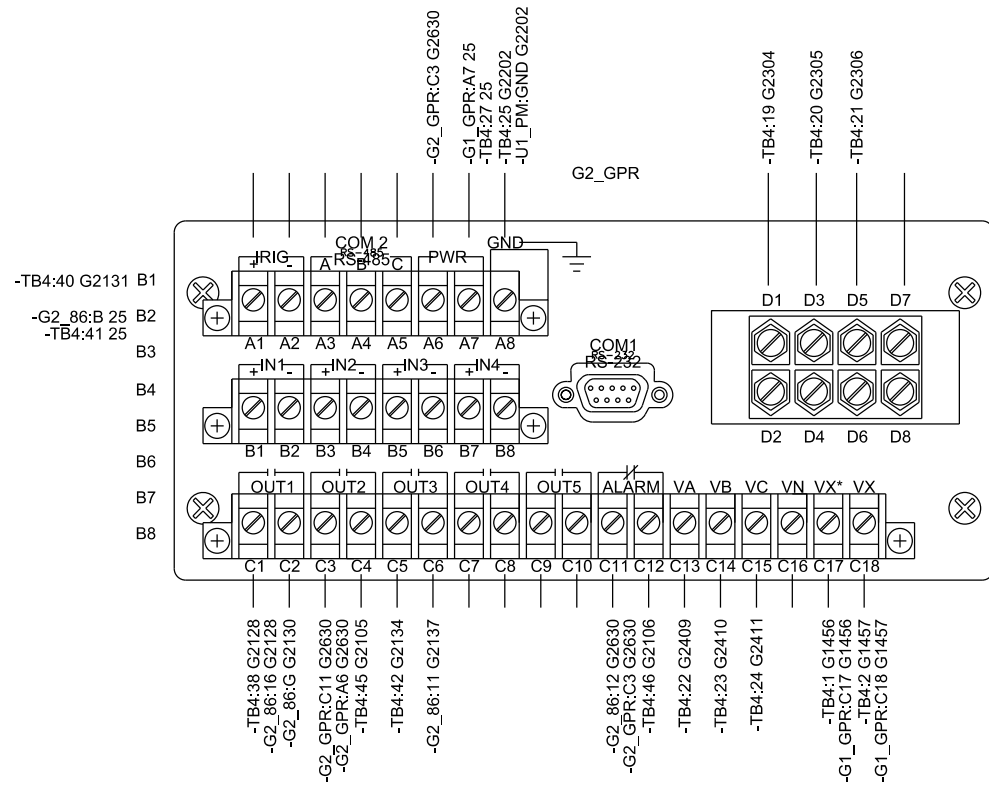
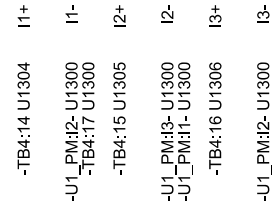
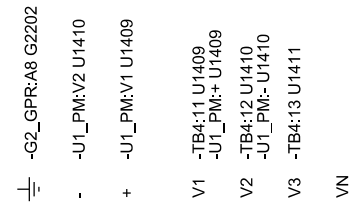
# UPPER RIGHTPAN

TB4		
-G1_PTX:2 G1456	○ 1 ○	-G2_GPR:C17 G1456
-G1_PTX:5 G1457	○ 2 ○	-G2_GPR:C18 G1457
-TB1.2:3 G1300	○ 3 ○	-G1_GPR:D2 G1300
-G1_PTX:11 G1304	○ 4 ○	-G1_GPR:D1 G1304
-G1_PTX:13 G1305	○ 5 ○	-G1_GPR:D3 G1305
-G1_PTX:15 G1306	○ 6 ○	-G1_GPR:D5 G1306
-G1_PTX:1 G1409	○ 7 ○	-G1_GPR:C13 G1409
-G1_PTX:4 G1410	○ 8 ○	-G1_GPR:C14 G1410
-G1_PTX:6 G1411	○ 9 ○	-G1_GPR:C15 G1411
-GNDBAR1:3	○ 10 ○	-G1_GPR:A8
-U1_FU4:2 U1409	○ 11 ○	-U1_PM:V1 U1409
-PT2:X1 U1410	○ 12 ○	-U1_PM:V2 U1410
-U1_FU4:4 U1411	○ 13 ○	-U1_PM:V3 U1411
-U1_PTX:11 U1304	○ 14 ○	-U1_PM:I1+ U1304
-U1_PTX:13 U1305	○ 15 ○	-U1_PM:I2+ U1305
-U1_PTX:15 U1306	○ 16 ○	-U1_PM:I3+ U1306
-U1_TB2:7 U1300	○ 17 ○	-U1_PM:I1- U1300
-TB1.4:3 G2300	○ 18 ○	-G2_GPR:D2 G2300
-TB1.4:4 G2304	○ 19 ○	-G2_GPR:D1 G2304
-TB1.4:5 G2305	○ 20 ○	-G2_GPR:D3 G2305
-TB1.4:6 G2306	○ 21 ○	-G2_GPR:D5 G2306
-TB1.4:7 G2409	○ 22 ○	-G2_GPR:C13 G2409
-TB1.4:8 G2410	○ 23 ○	-G2_GPR:C14 G2410
-TB1.4:9 G2411	○ 24 ○	-G2_GPR:C15 G2411
-GNDBAR2:3 G2202	○ 25 ○	-G2_GPR:A8 G2202
-G1_PTX:8 G1630	○ 26 ○	-G1_86:12 G1630
-G1_TB2:18 G1630	○ 27 ○	-G2_GPR:A7 25
-TB3:9 25	○ 27 ○	-G2_GPR:A7 25
-PLC_01:1.7 G1104	○ 28 ○	-G1_86:18 G1104
-PLC_01:1.8 G1105	○ 29 ○	-G1_GPR:C4 G1105
-PLC_01:1.9 G1106	○ 30 ○	-G1_GPR:C12 G1106
-G1_LCB:9 G1128	○ 31 ○	-G1_GPR:C1 G1128
-G1_TB2:12 G1128	○ 32 ○	-G1_86:14 G1129
-GFRX:2 G1129	○ 32 ○	-G1_86:14 G1129
-TB6:6 25	○ 33 ○	-G1_GPR:B2 25
-G1_CBXB1:A2 25	○ 33 ○	-G1_GPR:B2 25
-G1_CR:5 G1134	○ 34 ○	-G1_GPR:C5 G1134
-TB1.2:20 G1138	○ 35 ○	-G1_86:13 G1138

TB4 (CONTINUED)		
-G1_CBXB1:A1 G1131	○ 36 ○	-G1_GPR:B1 G1131
-TB1.4:12 G2630	○ 37 ○	-G2_86:12 G2630
-GFRX:3 G2128	○ 38 ○	-G2_GPR:C1 G2128
-GFRX:4 G2129	○ 39 ○	-G2_86:14 G2129
-TB1.4:18 G2131	○ 40 ○	-G2_GPR:B1 G2131
-TB1.4:19 25	○ 41 ○	-G2_GPR:B2 25
-TB1.4:24 G2134	○ 42 ○	-G2_GPR:C5 G2134
-TB1.4:20 G2138	○ 43 ○	-G2_86:13 G2138
-TB1.4:13 G2104	○ 44 ○	-G2_86:18 G2104
-TB1.4:14 G2105	○ 45 ○	-G2_GPR:C4 G2105
-TB1.4:15 G2106	○ 46 ○	-G2_GPR:C12 G2106

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	DATE	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DATE	1-5-10
				APPROVED	RMB	DATE	1-5-10
SECTION/FUNCTION 3				SCALE		CAD NO.	
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SHEET		E 86 OF 179	
				DWG. NO.		SGP-1350	

**DOOR**  
(REAR VIEW)



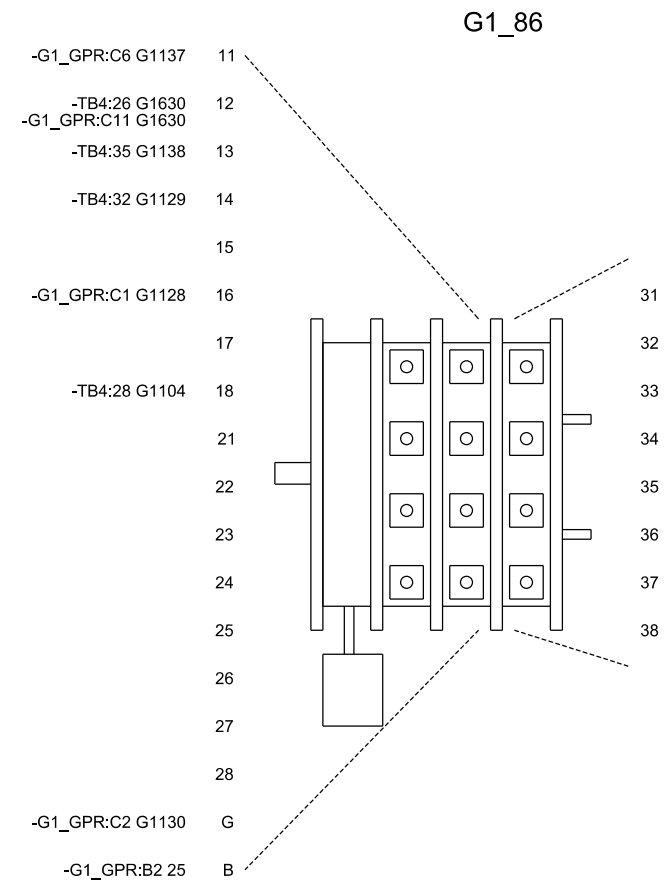
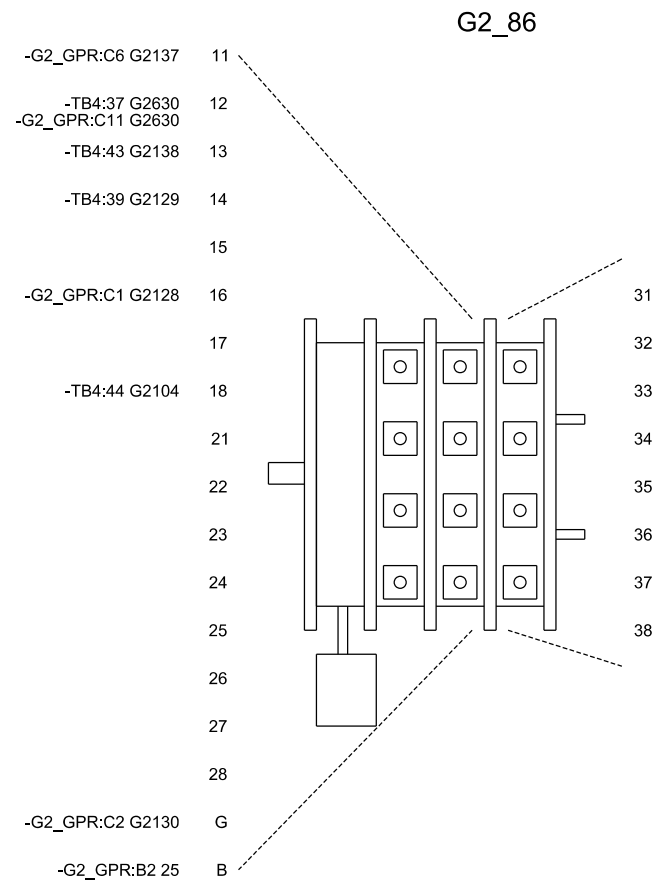
SECTION/FUNCTION  
3

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	SHEET	E 87 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	FLOTTED
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350		D	

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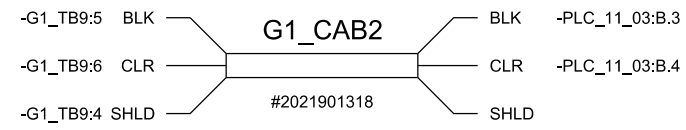
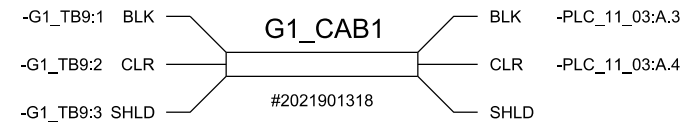
**DOOR**  
(REAR VIEW)



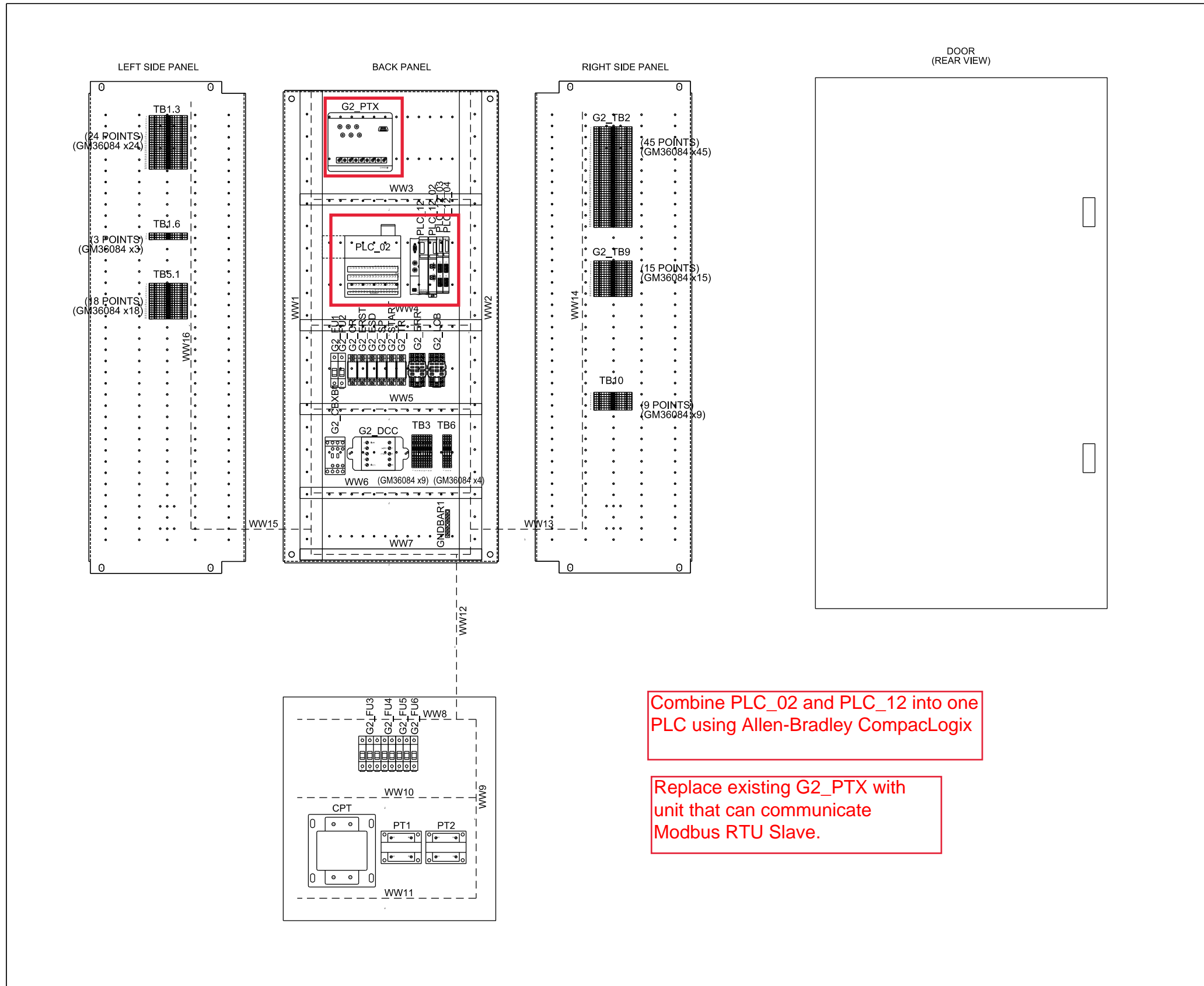
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 3 (UTILITY 1 / GEN 1)		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET	E 88 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	DWC NO.		
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	APPROVED	
				APPROVED	RMB	1-5-10	PRINTED	
SECTION/FUNCTION 3				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350   D

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# CABLES



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.            THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND            MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.            ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>		
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.				
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE		
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10		
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10		
				APPROVED	RMB	1-5-10		
SECTION/FUNCTION 3				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				TITLE <b>WIRING DIAG. - SECTION 3            (UTILITY 1 / GEN 1)</b>
				SCALE		CAD NO.	SHEET E 89 OF 179	
				DWC NO.		SGP-1350   D		



Combine PLC\_02 and PLC\_12 into one PLC using Allen-Bradley CompacLogix

Replace existing G2\_PTX with unit that can communicate Modbus RTU Slave.

Device ID	Part Number
CPT	320828
CPT	X-6121-118
G2_CAB1	2021901318
G2_CAB2	2021901318
G2_CBXB1	ES-41140
G2_CONN	GM23792
G2_CR	X-6124-13
G2_CR	X-6124-12
G2_CR	X-6137-5
G2_DCC	X-49-43
G2_DCC	X-22-24
G2_DCC	GM46869
G2_DCC	GM47008
G2_DCC	GM47021
G2_ERR	291309
G2_ERR	X-6124-4
G2_ERR	X-6124-5
G2_ERST	X-6124-12
G2_ERST	X-6124-13
G2_ERST	X-6137-5
G2_ESD	X-6137-5
G2_ESD	X-6124-13
G2_ESD	X-6124-12
G2_FU1	X-6135-6
G2_FU1	X-6129-16
G2_FU2	X-6129-16
G2_FU2	X-6135-6
G2_FU3	294552
G2_FU3	X-6129-29
G2_FU4	X-6129-20
G2_FU4	X-6135-1
G2_FU5	X-6135-41
G2_FU5	X-6129-28
G2_FU6	X-6129-16
G2_FU6	X-6135-6
G2_LCB	291309
G2_LCB	X-6124-4
G2_LCB	X-6124-5
G2_PTX	353123
G2_PTX	GM22864
G2_PTX	X-6429-9
G2_SP	X-6124-13
G2_SP	X-6124-12
G2_SP	X-6137-5
G2_START	X-6124-12
G2_START	X-6124-13
G2_START	X-6137-5
G2_TR	X-6137-5
G2_TR	X-6124-12
G2_TR	X-6124-13
G2PTX	GM12266
PLC_02	GM14133
PLC_02	GM14130
PLC_02	GM14124
PLC_02	GM22866
PLC_02	X-6429-9
PLC_12	GM45909
PLC_12	GM39245
PLC_12	X-6429-9
PLC_12_02	GM39246
PLC_12_02	GM39256
PLC_12_02	GM45910
PLC_12_03	GM45911
PLC_12_03	GM39251
PLC_12_03	GM39257
PLC_12_04	GM39257
PLC_12_04	GM39248
PLC_12_04	GM45911
PT1	346258
PT1	X-6121-90
PT1	X-50-8
PT2	X-50-8
PT2	X-6121-90
PT2	346258

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB

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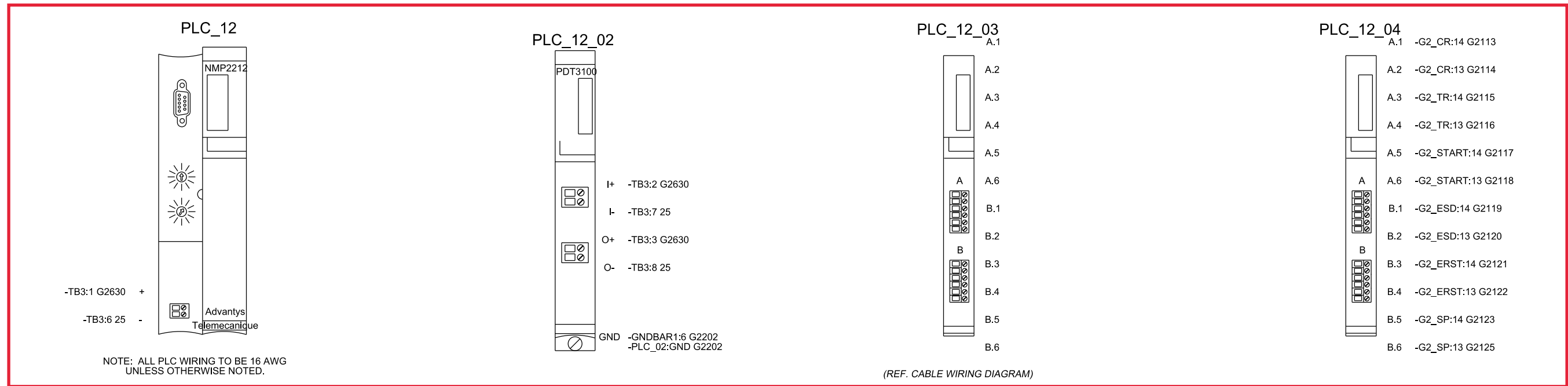
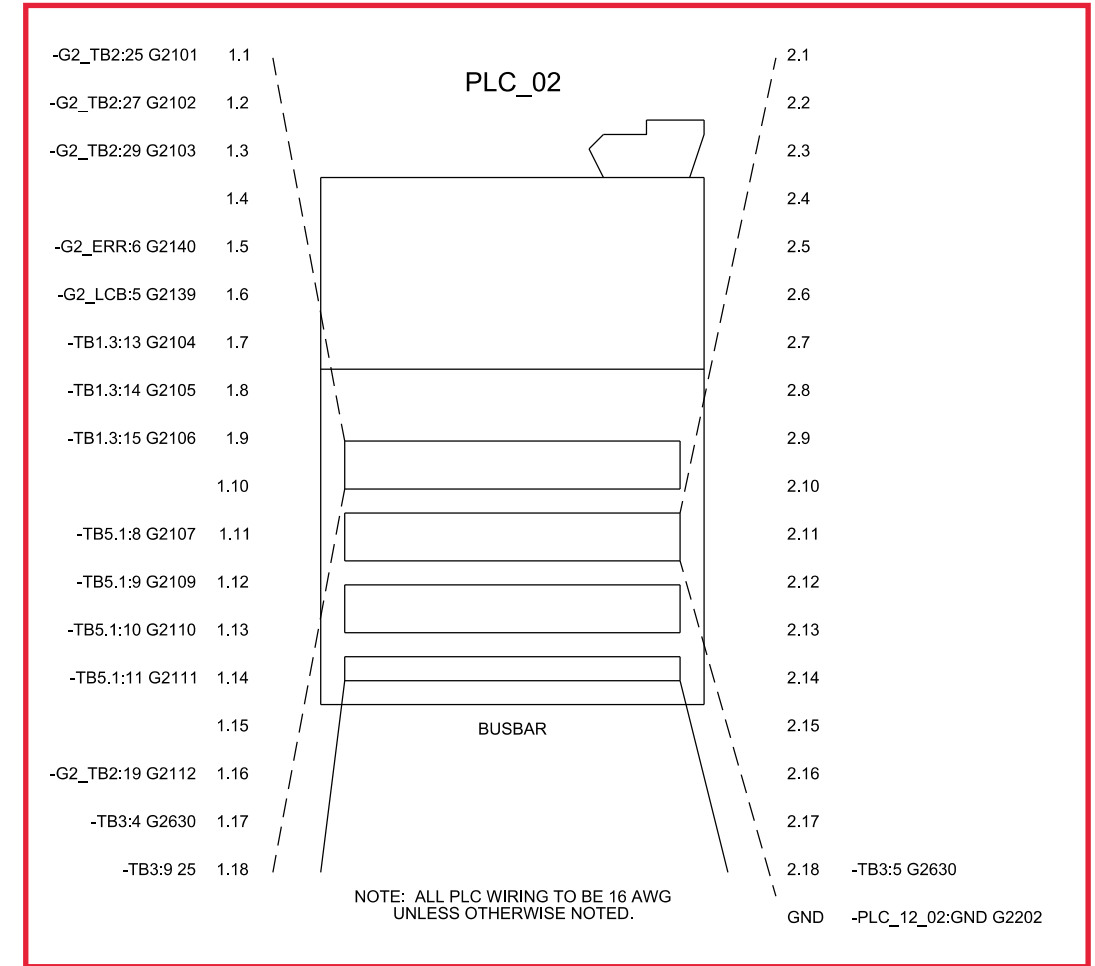
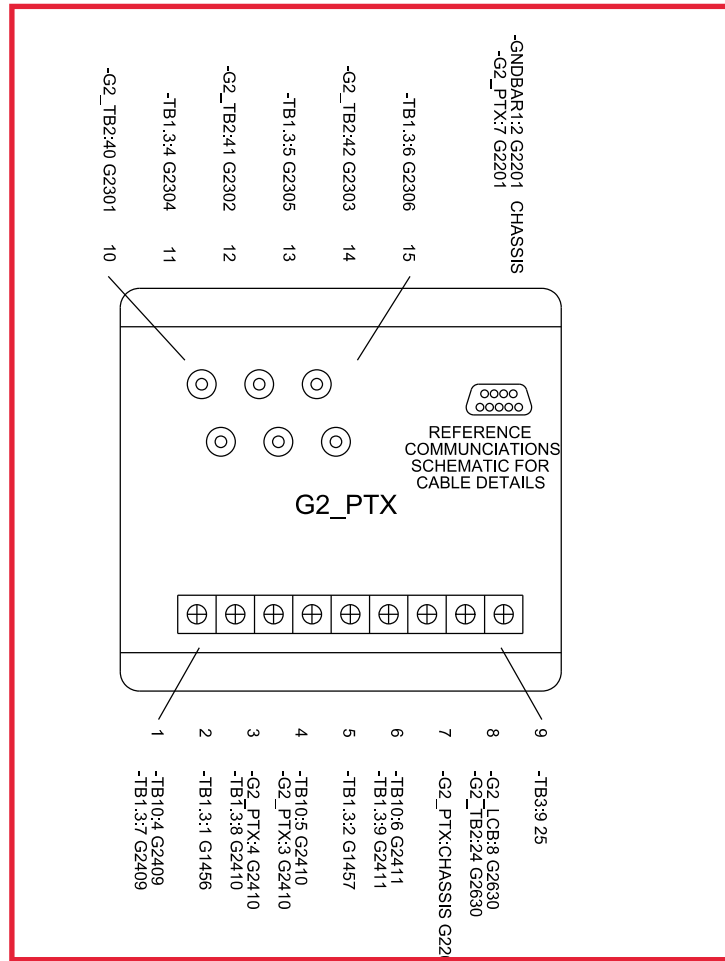
**TITLE: PANEL LAYOUT SECTION 4 (GEN 2)**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: 90 OF 179  
 PLOTTED: \_\_\_\_\_ DWG. NO.: SGP-1350

**BACKPANEL**

Combine PLC\_02 and PLC\_12 into one PLC using Allen-Bradley CompacLogix

Replace existing G2\_PTX with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10

SECTION/FUNCTION	4
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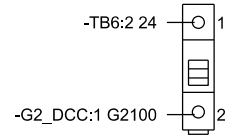
  

TITLE	WIRING DIAG. - SECTION 4 (GEN 2)	
SCALE	CAD NO.	SHEET 91 OF 179
PLOTTED	DWG. NO.	SGP-1350

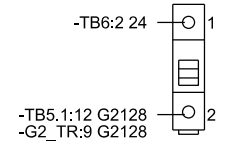
**PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED**

# BACKPANEL

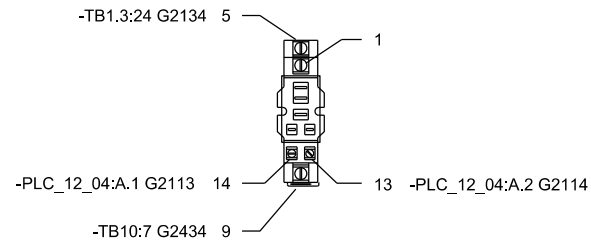
**G2\_FU1**



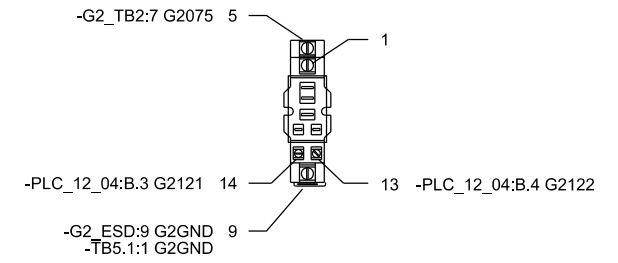
**G2\_FU2**



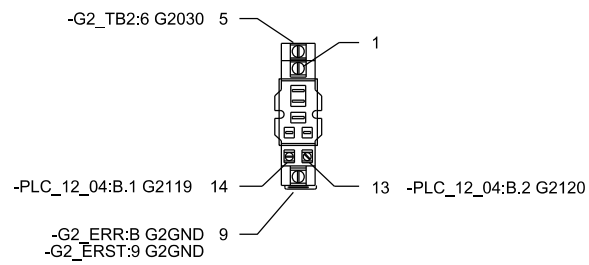
**G2\_CR**



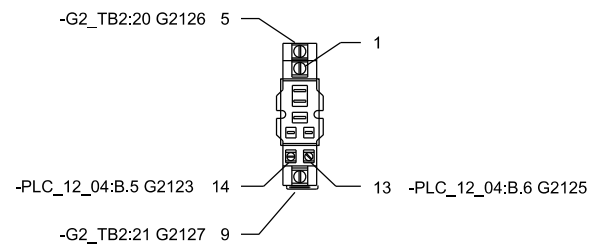
**G2\_ERST**



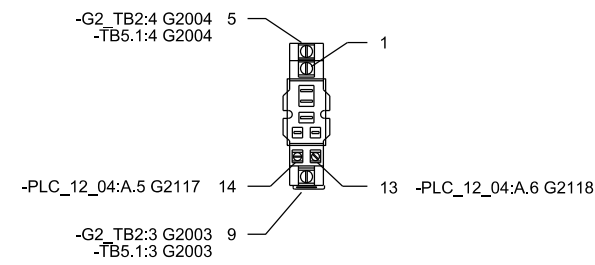
**G2\_ESD**



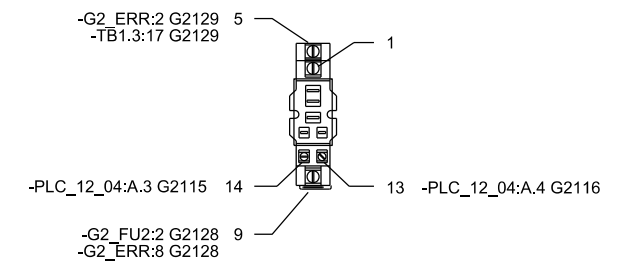
**G2\_SP**



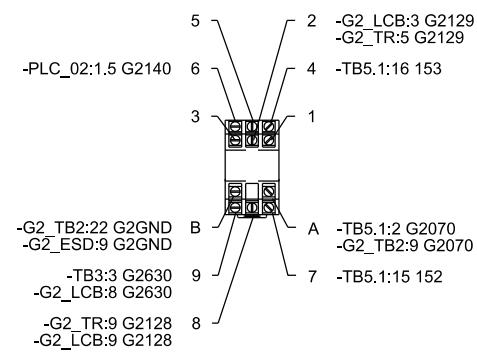
**G2\_START**



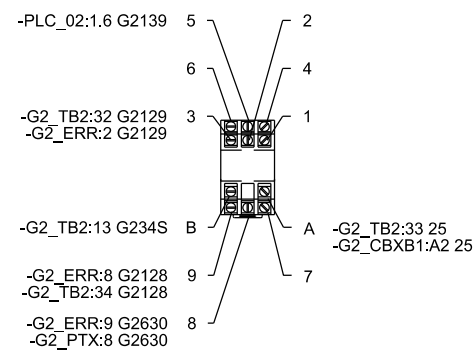
**G2\_TR**



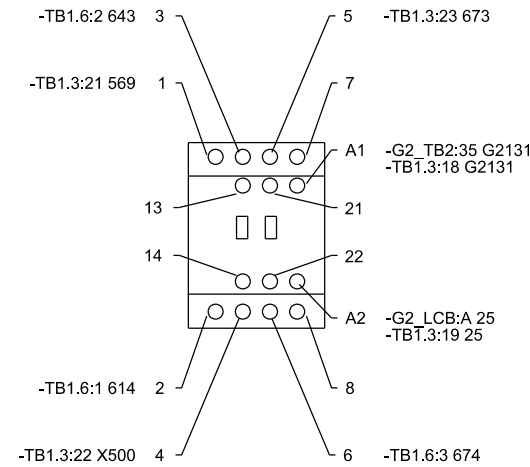
**G2\_ERR**



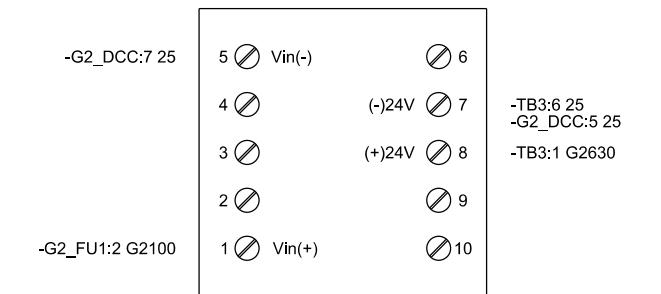
**G2\_LCB**



**G2\_CBXB1**

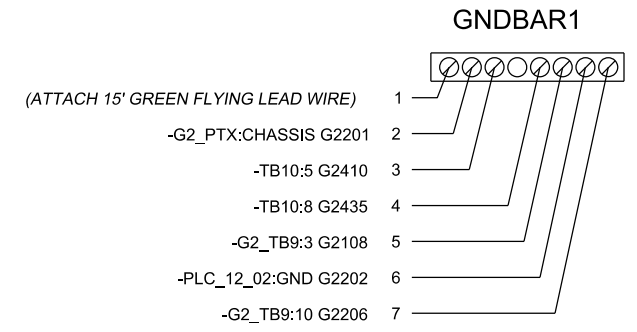
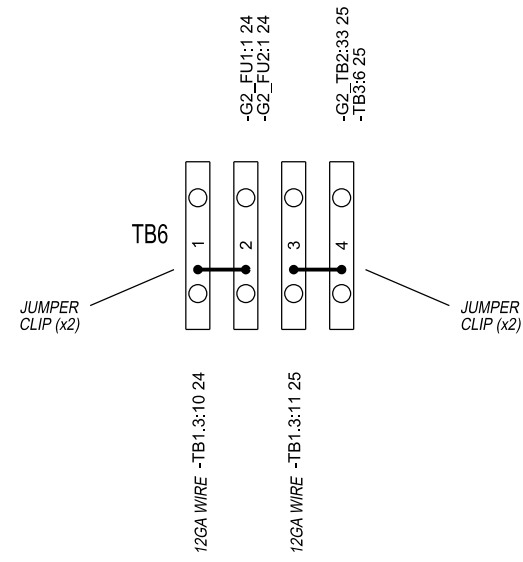
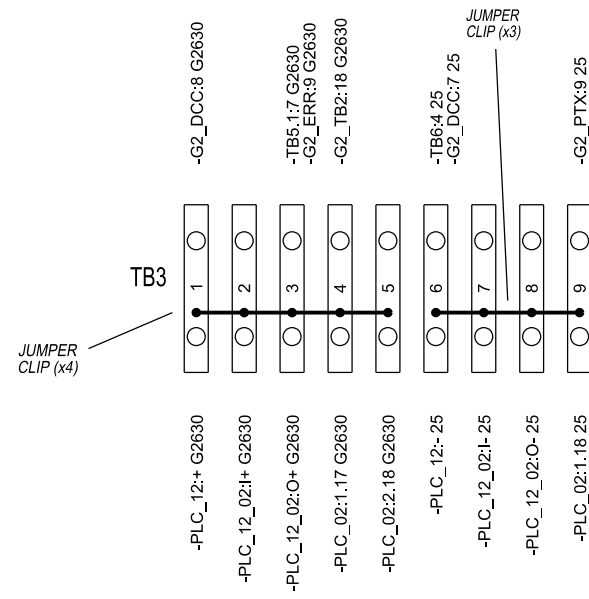


**G2\_DCC**



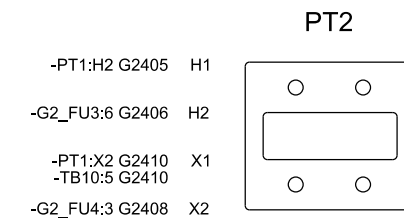
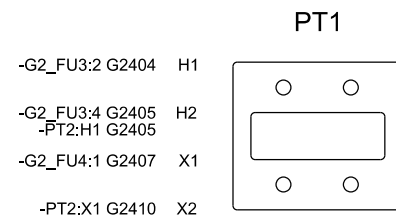
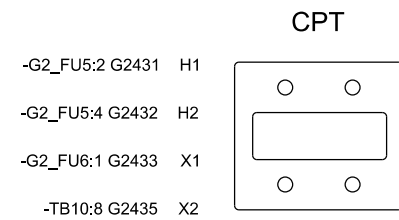
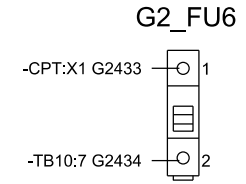
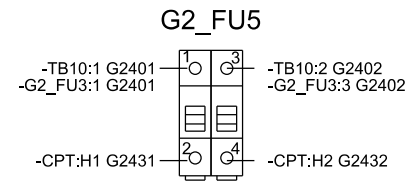
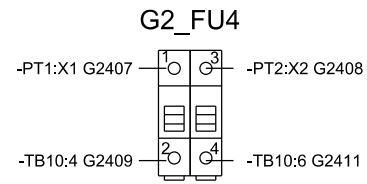
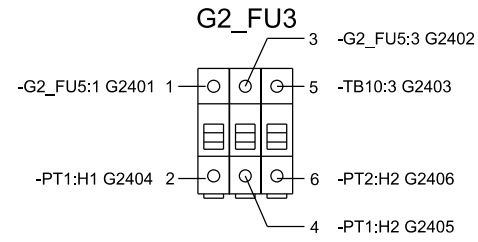
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		SCALE	CAD NO.
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. - SECTION 4 (GEN 2)			
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE				
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR				
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB				
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB				
SECTION/FUNCTION 4				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SGP-1350		SHEET 92 OF 179	

# BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR	TITLE <b>WIRING DIAG. - SECTION 4 (GEN 2)</b>	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS DATE			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR 1-5-10		SCALE CAD NO. SHEET E 93 OF 179 PLOTTED DWG. NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB 1-5-10 APPROVED RMB 1-5-10			
SECTION/FUNCTION 4				<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b> SGP-1350 D			

# LOWER BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.                  THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND                  MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.                  ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAG. - SECTION 4 (GEN 2) SCALE: _____ CAD NO. _____ SHEET: E 94 OF 179 PLOTTED: _____ DWG. NO. SGP-1350
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN		1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED		RMB 1-5-10	
				APPROVED		RMB 1-5-10	

SECTION/FUNCTION  
4

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER LEFTPAN

TB1.3

○ 1 ○	-G2_PTX:2 G1456
○ 2 ○	-G2_PTX:5 G1457
○ 3 ○	-G2_TB2:39 G2300
○ 4 ○	-G2_PTX:11 G2304
○ 5 ○	-G2_PTX:13 G2305
○ 6 ○	-G2_PTX:15 G2306
○ 7 ○	-G2_PTX:1 G2409
○ 8 ○	-G2_PTX:3 G2410
○ 9 ○	-G2_PTX:6 G2411
○ 10 ○	-TB6:1 24 12GA WIRE
○ 11 ○	-TB6:3 25 12GA WIRE
○ 12 ○	-TB5.1:7 G2630
○ 13 ○	-PLC_02:1.7 G2104
○ 14 ○	-PLC_02:1.8 G2105
○ 15 ○	-PLC_02:1.9 G2106
○ 16 ○	-TB5.1:12 G2128
○ 17 ○	-G2_TR:5 G2129
○ 18 ○	-G2_CBXB1:A1 G2131
○ 19 ○	-G2_CBXB1:A2 25
○ 20 ○	-G2_TB2:36 G2138
○ 21 ○	-G2_CBXB1:1 569
○ 22 ○	-G2_CBXB1:4 X500
○ 23 ○	-G2_CBXB1:5 673
○ 24 ○	-G2_CR:5 G2134

TB1.6

○ 1 ○	-G2_CBXB1:2 614
○ 2 ○	-G2_CBXB1:3 643
○ 3 ○	-G2_CBXB1:6 674

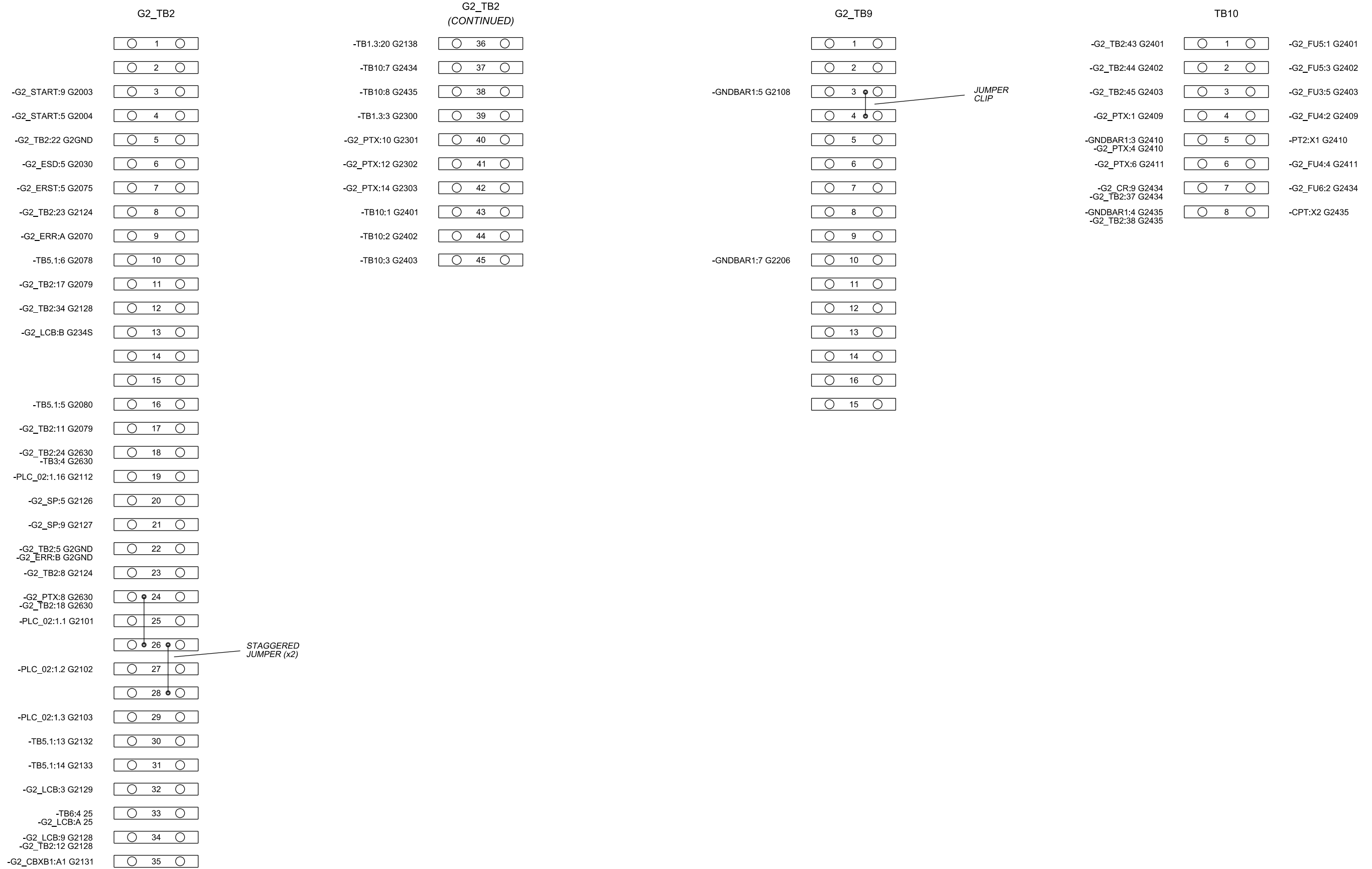
TB5.1

○ 1 ○	-G2_ERST:9 G2GND
○ 2 ○	-G2_ERR:A G2070
○ 3 ○	-G2_START:9 G2003
○ 4 ○	-G2_START:5 G2004
○ 5 ○	-G2_TB2:16 G2080
○ 6 ○	-G2_TB2:10 G2078
○ 7 ○	-TB1.3:12 G2630 -TB3:3 G2630
○ 8 ○	-PLC_02:1.11 G2107
○ 9 ○	-PLC_02:1.12 G2109
○ 10 ○	-PLC_02:1.13 G2110
○ 11 ○	-PLC_02:1.14 G2111
○ 12 ○	-TB1.3:16 G2128 -G2_FU2:2 G2128
○ 13 ○	-G2_TB2:30 G2132
○ 14 ○	-G2_TB2:31 G2133
○ 15 ○	-G2_ERR:7 152
○ 16 ○	-G2_ERR:4 153

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.				POWER SYSTEMS, KOHLER, WI 53044 U.S.A.		THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
REV	DATE	REVISION	BY	ES NO.:	ITEM		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	TITLE <b>WIRING DIAG. - SECTION 4 (GEN 2)</b>	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE			
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR		
				CHECKED	RMB	1-5-10	SCALE
				APPROVED	RMB	1-5-10	CAD NO.
SECTION/FUNCTION 4				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		DWC NO. SGP-1350   D	



# UPPER RIGHTPAN

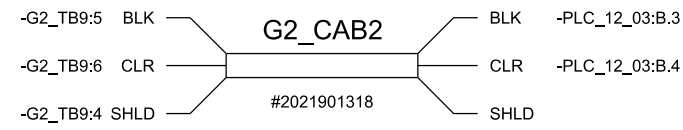
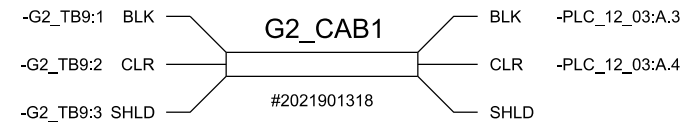


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 4 (GEN 2)			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.	SHEET 96 OF 179	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	PLOTTED	DWG. NO.	PRINTED SGP-1350   D	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10			
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10			
				APPROVED	RMB	1-5-10			

SECTION/FUNCTION  
4

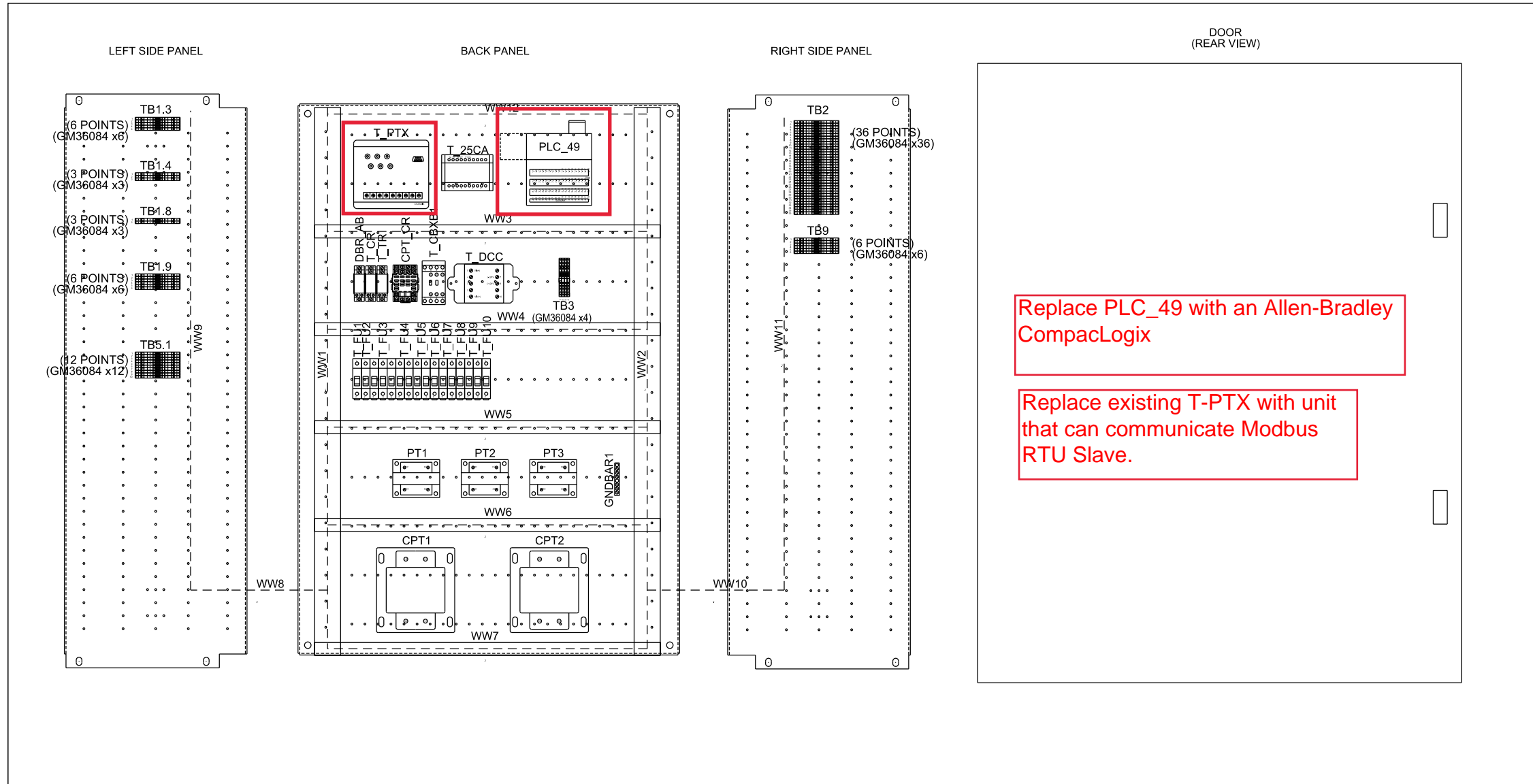
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# CABLES



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.            THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND            MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.            ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>		
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.				
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE		
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10		
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10		
				APPROVED	RMB	1-5-10		
SECTION/FUNCTION 4				<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>				TITLE <b>WIRING DIAG. - SECTION 4 (GEN 2)</b>
				SCALE	CAD NO.	SHEET 97 OF 179		
				DWG. NO. SGP-1350				

SECTION 6



PARTS LIST

Device ID	Part Number
CPT_CR	X-6137-64
CPT_CR	X-6124-15
CPT_CR	X-6124-14
CPT1	X-6121-118
CPT1	320828
CPT2	320828
CPT2	X-6121-118
DBR_AB	X-6124-13
DBR_AB	X-6124-12
DBR_AB	X-6137-5
GNDBAR1	GM12266
PLC_49	GM14124
PLC_49	GM14131
PLC_49	GM14132
PLC_49	X-6429-9
PT1	346258
PT1	X-6121-90
PT1	X-50-8
PT2	X-50-8
PT2	X-6121-90
PT2	346258
PT3	346258
PT3	X-6121-90
PT3	X-50-8
T_25CA	X-6120-31
T_CBXB1	ES-41140
T_CR	X-6124-12
T_CR	X-6124-13
T_CR	X-6137-5
T_DCC	X-22-24
T_DCC	X-49-43
T_DCC	GM47021
T_DCC	GM46869
T_DCC	GM47008
T_FU1	X-6129-16
T_FU1	X-6135-6
T_FU10	X-6129-16
T_FU10	X-6135-6
T_FU2	X-6135-6
T_FU2	X-6129-16
T_FU3	294552
T_FU3	X-6129-29
T_FU4	X-6129-20
T_FU4	X-6135-1
T_FU5	X-6129-28
T_FU5	X-6135-41
T_FU6	X-6129-16
T_FU6	X-6135-6
T_FU7	X-6129-28
T_FU7	294552
T_FU8	X-6135-1
T_FU8	X-6129-16
T_FU9	X-6129-28
T_FU9	X-6135-41
T_PTX	GM22864
T_PTX	353123
T_PTX	X-6429-9
T_TR	X-6137-5
T_TR	X-6124-13
T_TR	X-6124-12

CAE GENERATED DRAWING

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.: SGP-1350

PROJECT NAME:	
PANAMA CITY BEACH AWT EXP.	
ES NO.:	ITEM
ES-90645	SWGR
APPROVALS	DATE
RTR	1-5-10
CHECKED	1-5-10
RMB	1-5-10
APPROVED	1-5-10
RMB	1-5-10

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TITLE: **PANEL LAYOUT SECTION 6 (TIE)**

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET: 98 OF 179

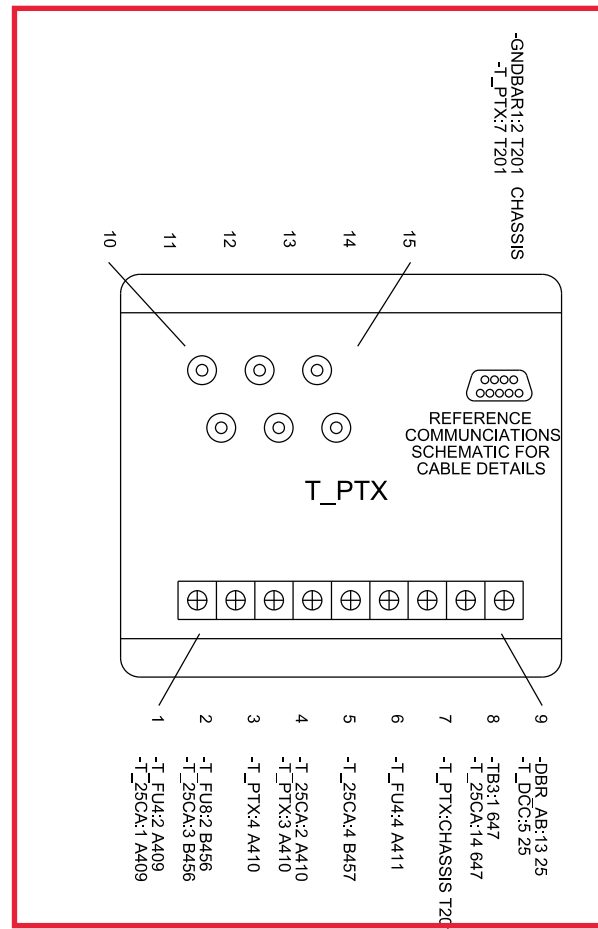
PLOTTED: \_\_\_\_\_ DWG. NO. SGP-1350

SECTION/FUNCTION  
6

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

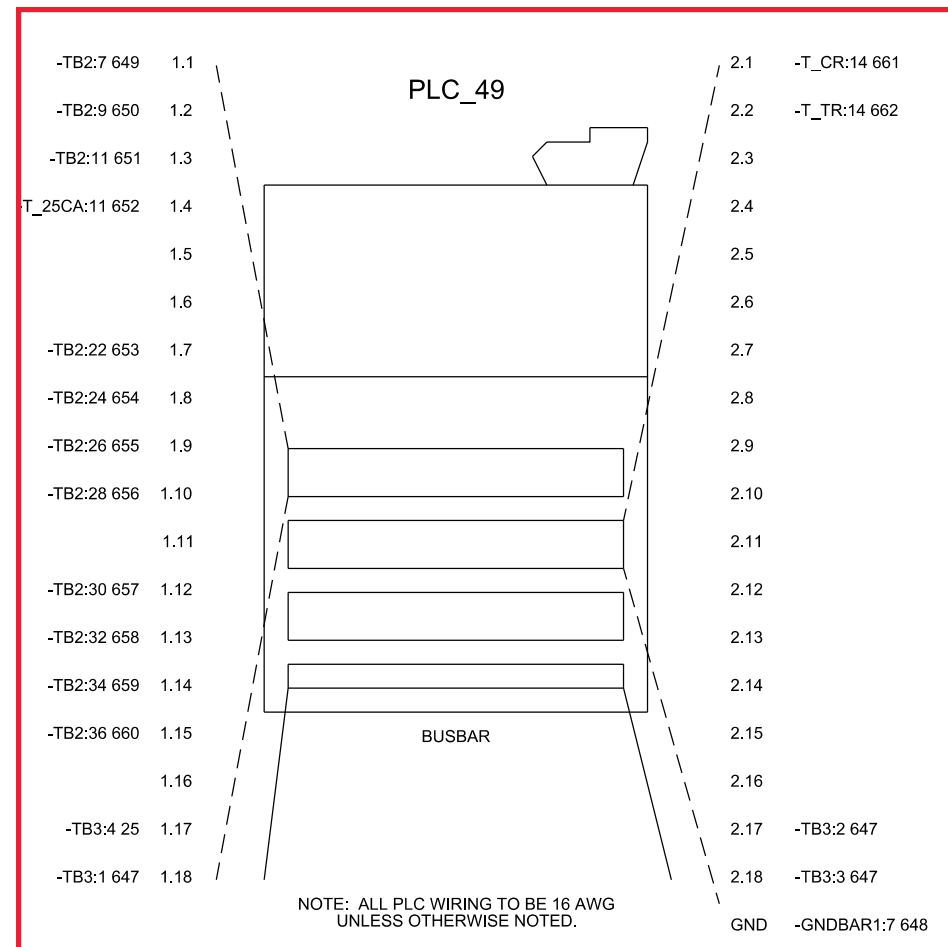
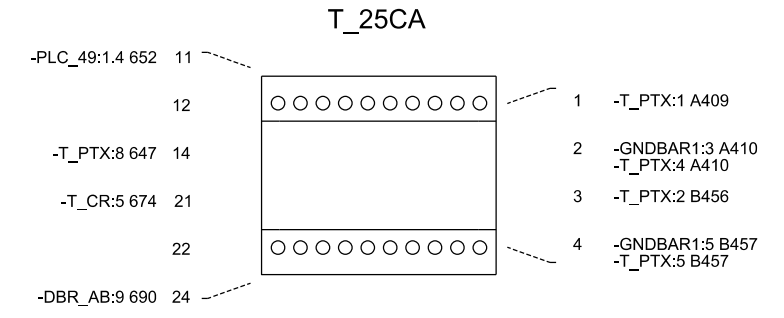
SGP-1350 D

# BACKPANEL



Replace PLC\_49 with an Allen-Bradley CompacLogix

Replace existing T-PTX with unit that can communicate Modbus RTU Slave.



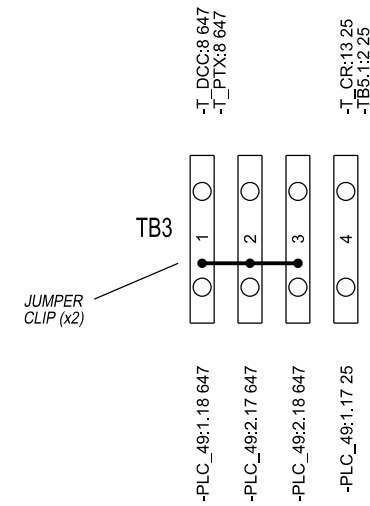
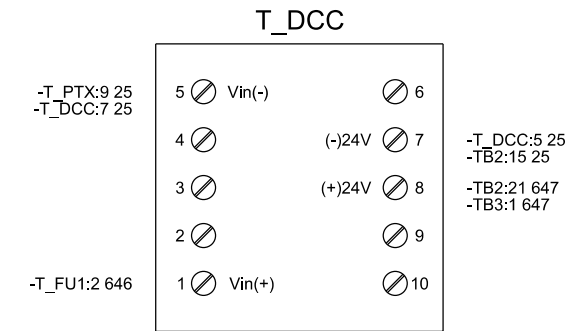
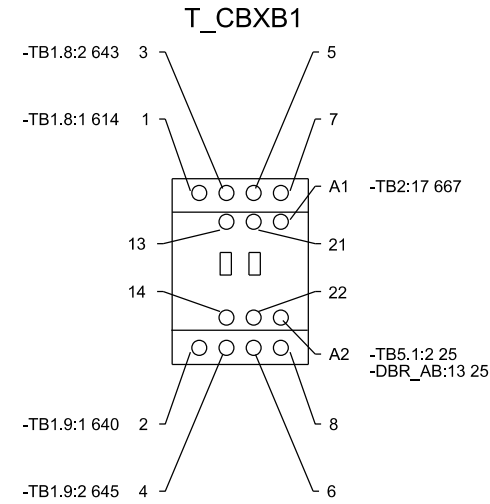
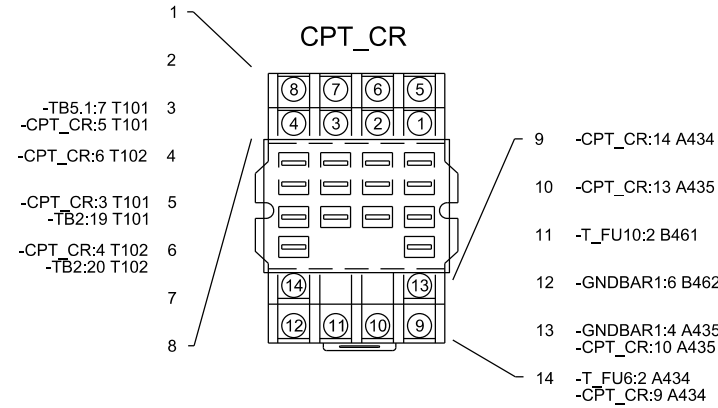
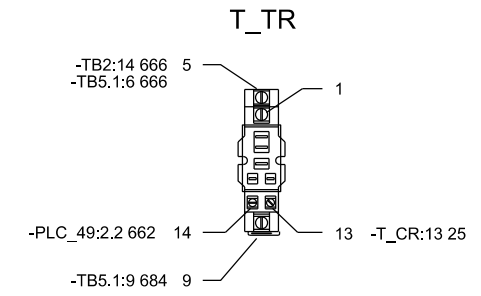
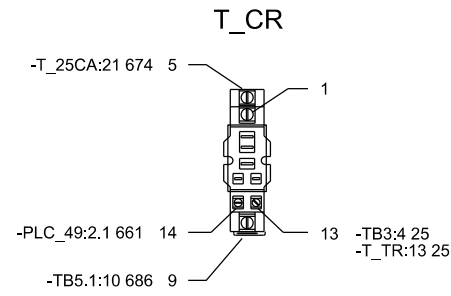
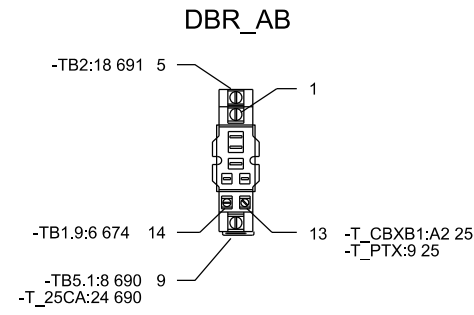
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED RMB	1-5-10

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TITLE: WIRING DIAG. - SECTION 6 (TIE)		
SCALE	CAD NO.	SHEET 99 OF 179
PLOTTED	DWG. NO.	SGP-1350

SECTION/FUNCTION 6

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACKPANEL

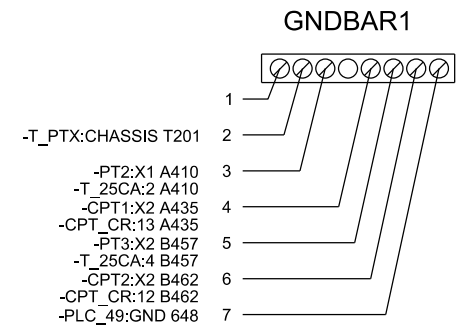
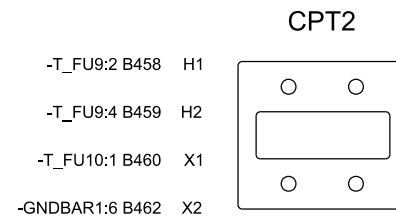
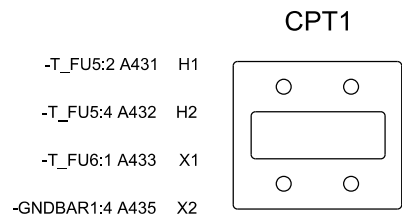
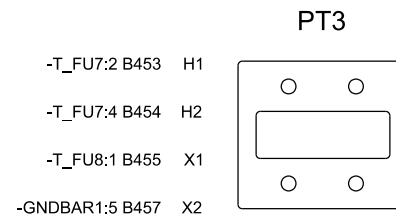
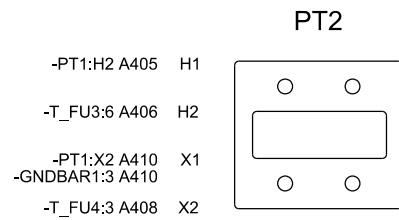
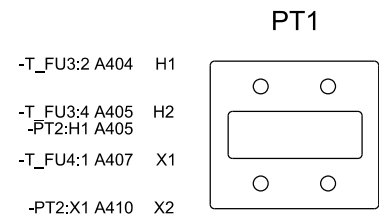
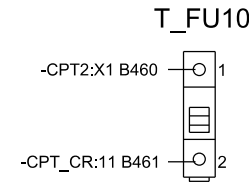
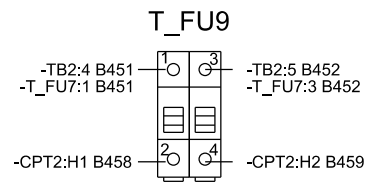
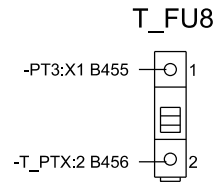
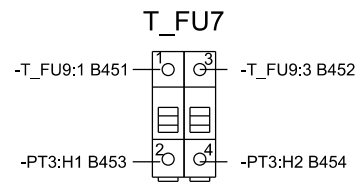
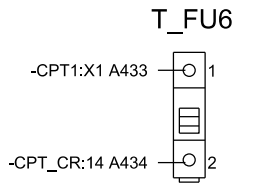
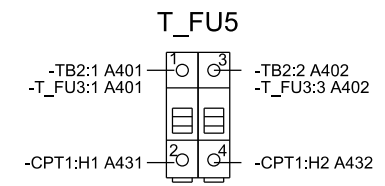
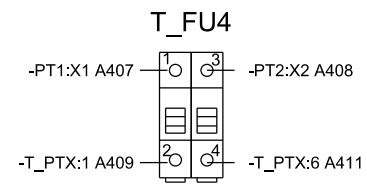
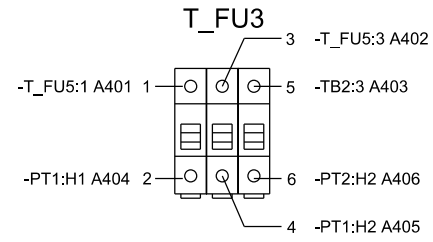
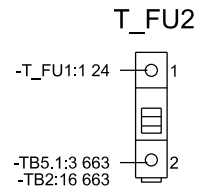
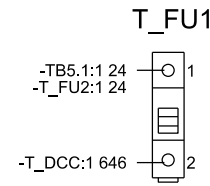


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 6 (TIE)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE: 1:100	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET 100 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	DWG. NO. SGP-1350	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DATE: 1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DATE: 1-5-10	

SECTION/FUNCTION 6

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACK PANEL

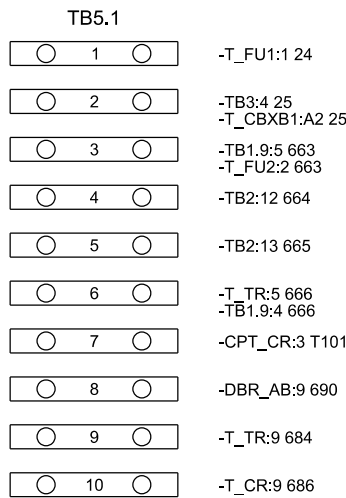
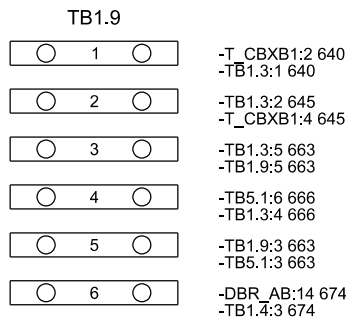
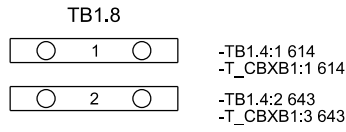
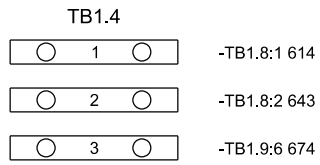
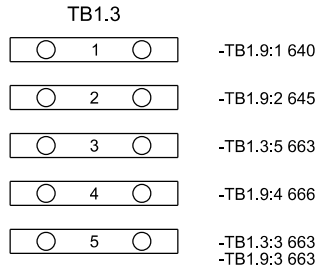


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 6 (TIE)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE: 1-5-10	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET 101 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	DWG. NO. SGP-1350	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	D	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION 6

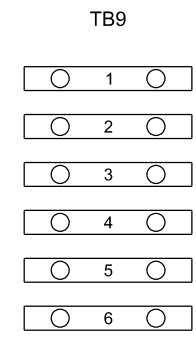
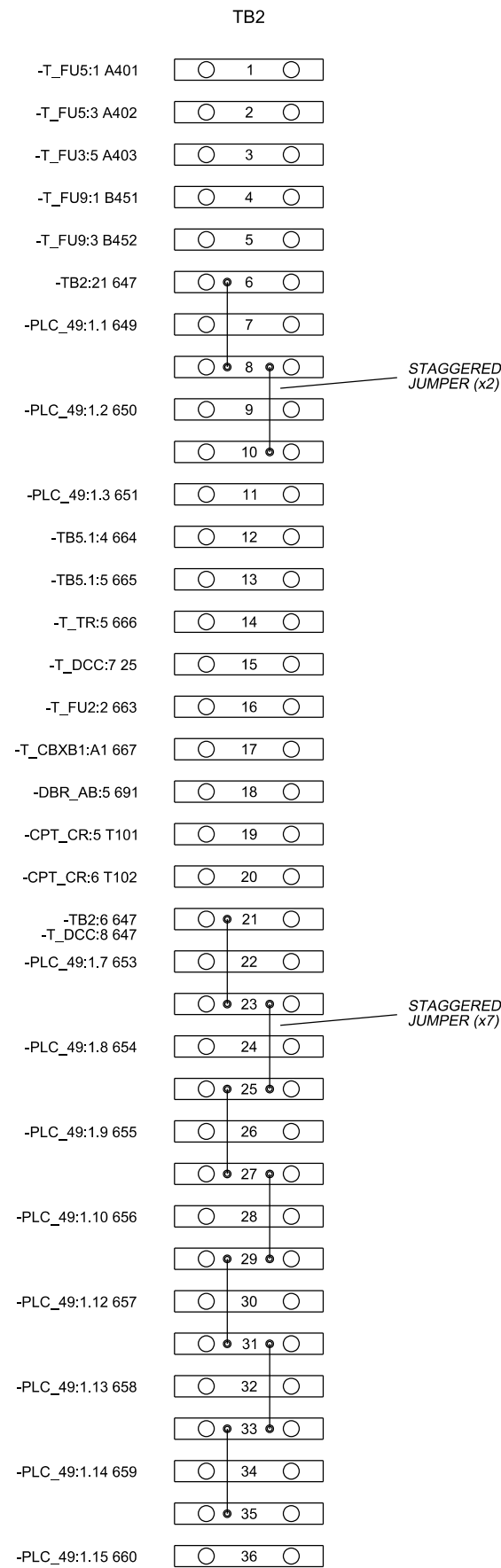
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

UPPER LEFTPAN



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>		
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		SCALE	CAD NO.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. - SECTION 6 (TIE)				
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE					
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10				
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10				
				APPROVED	RMB	1-5-10				
SECTION/FUNCTION 6			PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SHEET 102 OF 179		DWG. NO. SGP-1350   D	

# UPPER RIGHTPAN



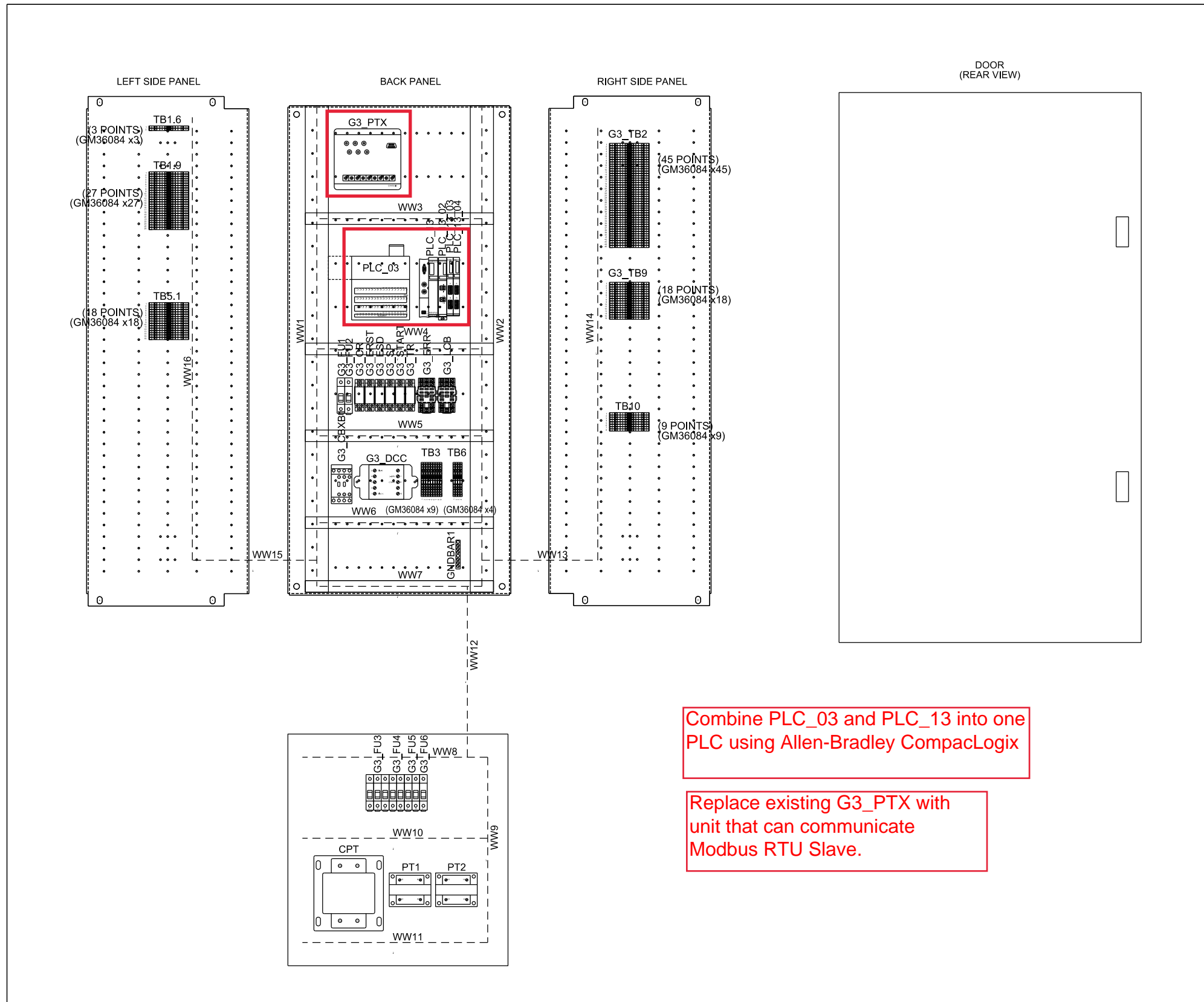
(REF. CABLE/COMMUNICATIONS DIAGRAM)

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 6 (TIE)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL			DATE	SHEET 103 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR				
C	7-21-10	AS BUILT [90178]	RTR				
				CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	
SECTION/FUNCTION 6				DWC NO. SGP-1350   D			

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Combine PLC\_03 and PLC\_13 into one PLC using Allen-Bradley CompacLogix

Replace existing G3\_PTX with unit that can communicate Modbus RTU Slave.

Device ID	Part Number
CPT	X-6121-118
CPT	320828
G3_CAB1	2021901318
G3_CAB2	2021901318
G3_CBXB1	ES-41140
G3_CONN	GM23792
G3_CR	X-6124-13
G3_CR	X-6124-12
G3_CR	X-6137-5
G3_DCC	GM46869
G3_DCC	GM47008
G3_DCC	GM47021
G3_DCC	X-22-24
G3_DCC	X-49-43
G3_ERR	X-6124-4
G3_ERR	X-6124-5
G3_ERR	291309
G3_ERST	X-6137-5
G3_ERST	X-6124-13
G3_ERST	X-6124-12
G3_ESD	X-6124-12
G3_ESD	X-6124-13
G3_ESD	X-6137-5
G3_FU1	X-6129-16
G3_FU1	X-6135-6
G3_FU2	X-6135-6
G3_FU2	X-6129-16
G3_FU3	294552
G3_FU3	X-6129-29
G3_FU4	X-6129-20
G3_FU4	X-6135-1
G3_FU5	X-6135-41
G3_FU5	X-6129-28
G3_FU6	X-6129-16
G3_FU6	X-6135-6
G3_LCB	X-6124-4
G3_LCB	X-6124-5
G3_LCB	291309
G3_PTX	353123
G3_PTX	GM22864
G3_PTX	X-6429-9
G3_SP	X-6124-13
G3_SP	X-6124-12
G3_SP	X-6137-5
G3_START	X-6124-12
G3_START	X-6124-13
G3_START	X-6137-5
G3_TR	X-6137-5
G3_TR	X-6124-12
G3_TR	X-6124-13
G3_TR	X-6124-13
GND BAR1	GM12266
PLC_03	GM22866
PLC_03	GM14130
PLC_03	GM14133
PLC_03	GM14124
PLC_03	X-6429-9
PLC_13	GM45909
PLC_13	GM39245
PLC_13	X-6429-9
PLC_13_02	GM39246
PLC_13_02	GM39256
PLC_13_02	GM45910
PLC_13_03	GM45911
PLC_13_03	GM39251
PLC_13_03	GM39257
PLC_13_04	GM39257
PLC_13_04	GM39248
PLC_13_04	GM45911
PT1	346258
PT1	X-50-8
PT1	X-6121-90
PT2	X-6121-90
PT2	X-50-8
PT2	346258

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM: SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN: RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED: RMB	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED: RMB	1-5-10

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TITLE: **PANEL LAYOUT SECTION 8 (GEN 3)**

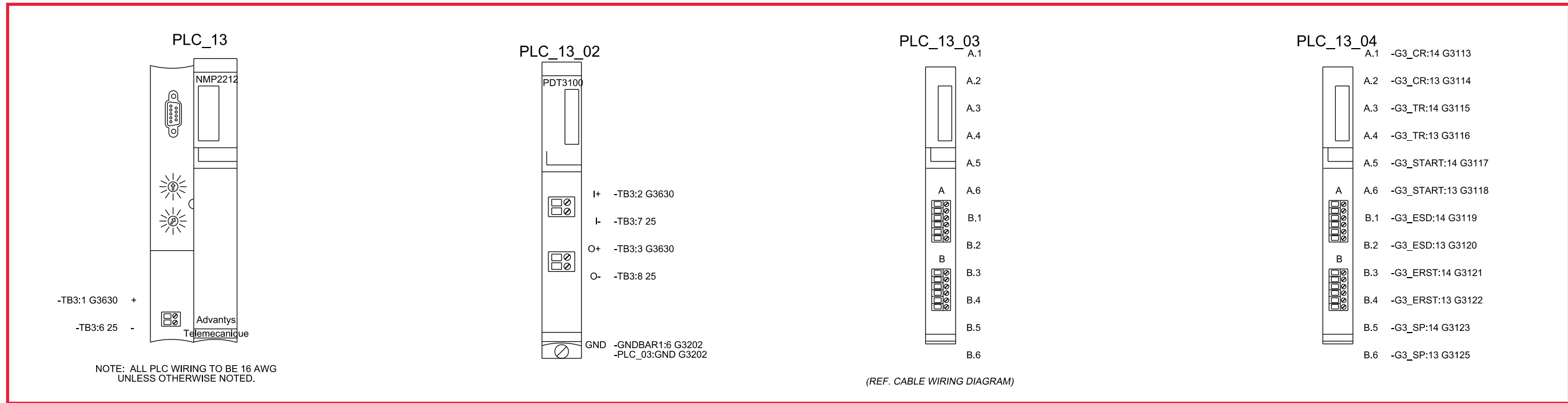
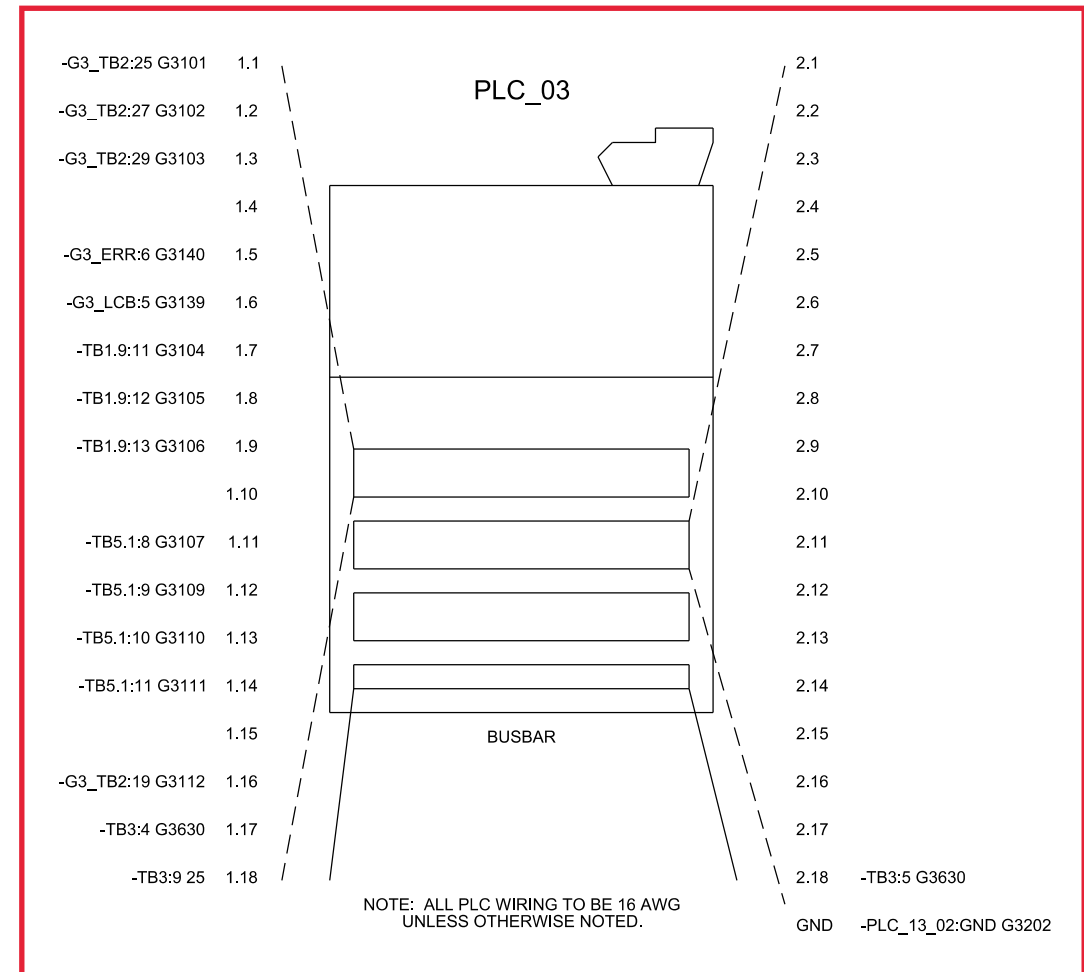
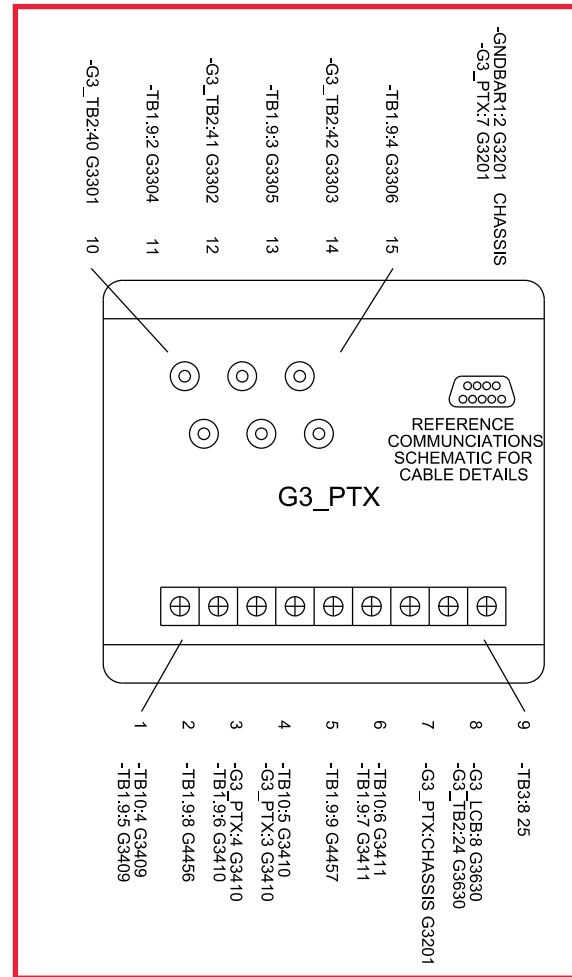
SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: 104 of 179

PLOTTED: \_\_\_\_\_ DWG. NO.: SGP-1350

BACKPANEL

Combine PLC\_03 and PLC\_13 into one PLC using Allen-Bradley CompacLogix

Replace existing G3\_PTX with unit that can communicate Modbus RTU Slave.



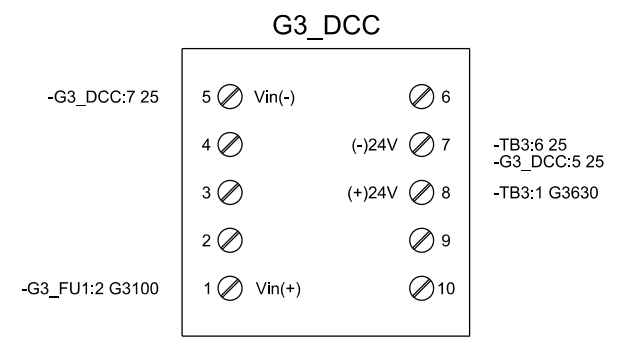
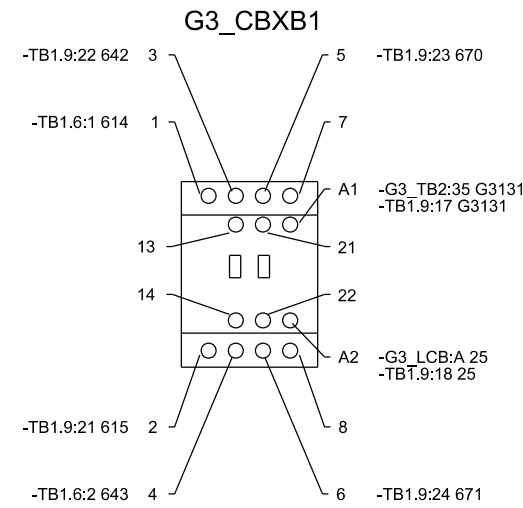
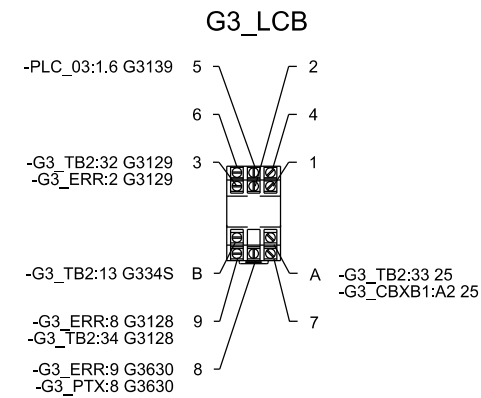
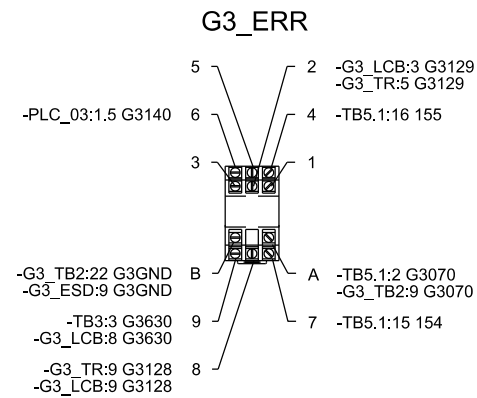
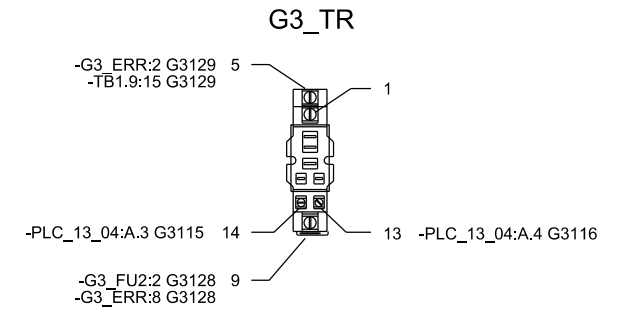
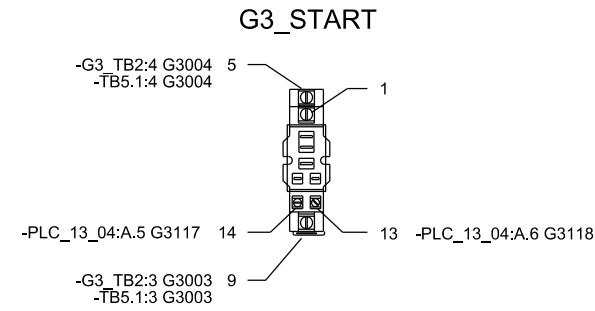
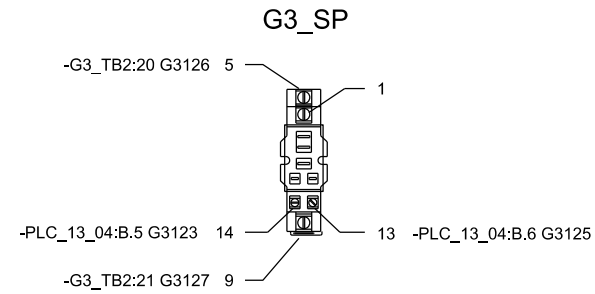
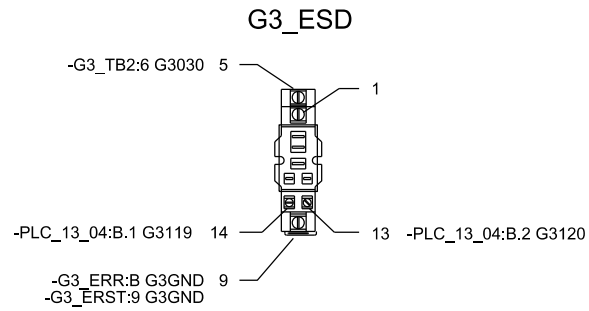
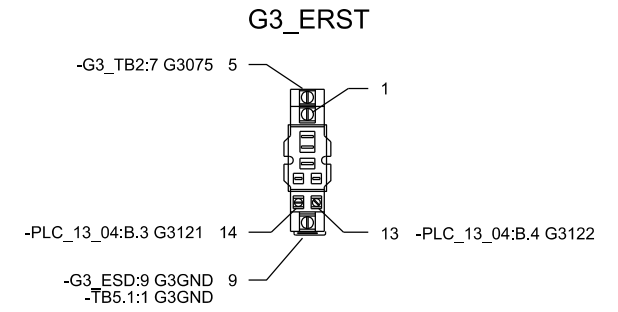
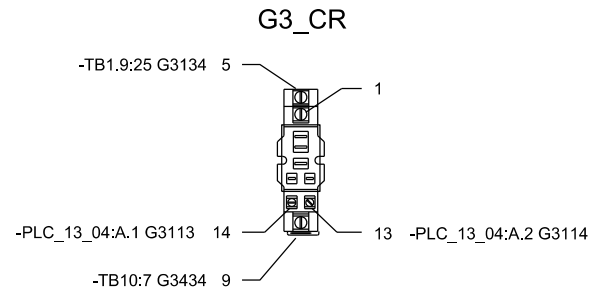
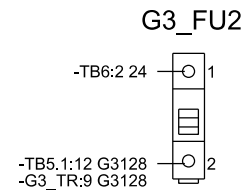
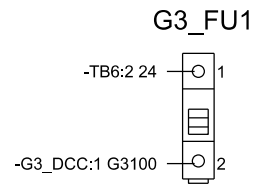
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 8 (GEN 3)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE: 1:1 SHEET 105 OF 179	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	DRAWN: RTR 1-5-10	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	CHECKED	RMB	1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	APPROVED	RMB	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			

SECTION/FUNCTION 8

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SCALE: 1:1  
 DWG. NO.: SGP-1350  
 SHEET 105 OF 179

# BACKPANEL

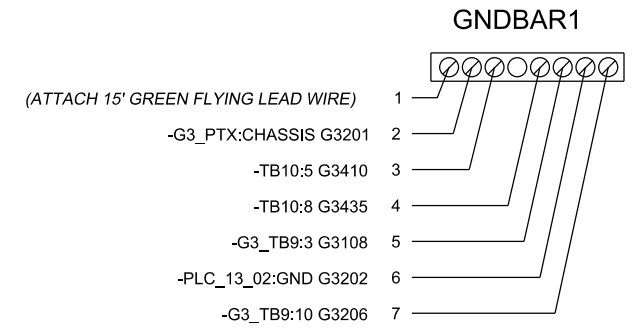
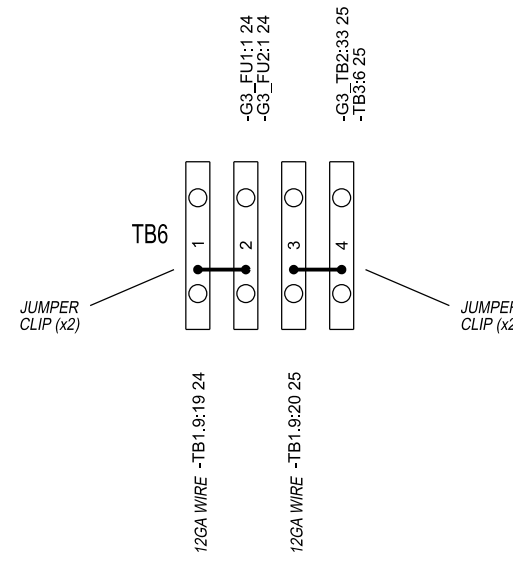
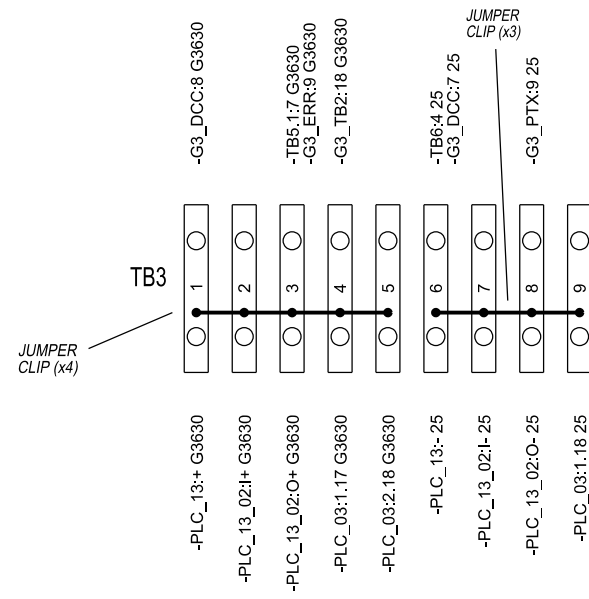


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE: WIRING DIAG. - SECTION 8 (GEN 3)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE: 1:10 SHEET 106 OF 179	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	DWC NO. SGP-1350 D	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	PLOTTED	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	

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SECTION/FUNCTION 8  
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# BACK PANEL

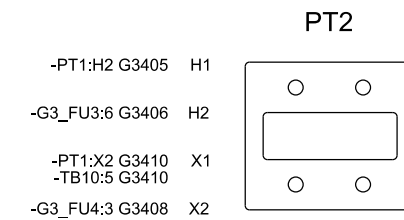
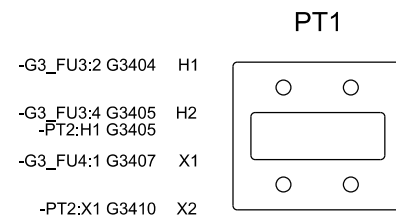
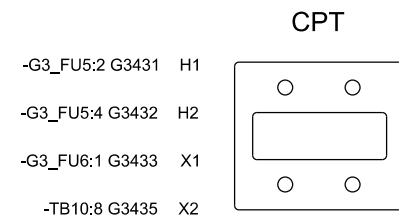
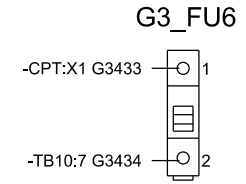
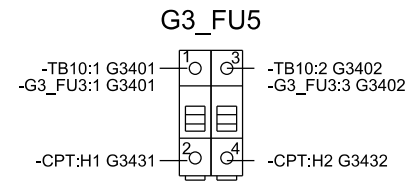
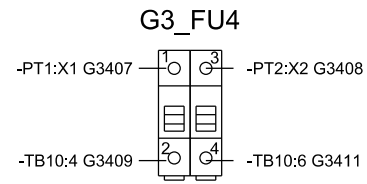
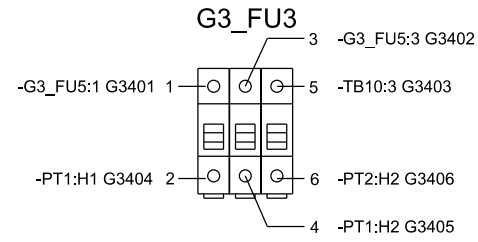


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. - SECTION 8 (GEN 3)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	SHEET	107 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION 8

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# LOWER BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.                  THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND                  MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.                  ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAG. - SECTION 8 (GEN 3) SCALE: _____ CAD NO. _____ SHEET: 108 of 179 PLOTTED: _____ DWG. NO. SGP-1350
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN		DATE	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED		DATE	
				APPROVED			

SECTION/FUNCTION  
8

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER LEFTPAN

TB1.6

- 1  -G3\_CBXB1:1 614
- 2  -G3\_CBXB1:4 643

TB1.9

- 1  -G3\_TB2:39 G3300
- 2  -G3\_PTX:11 G3304
- 3  -G3\_PTX:13 G3305
- 4  -G3\_PTX:15 G3306
- 5  -G3\_PTX:1 G3409
- 6  -G3\_PTX:3 G3410
- 7  -G3\_PTX:6 G3411
- 8  -G3\_PTX:2 G4456
- 9  -G3\_PTX:5 G4457
- 10  -TB5.1:7 G3630
- 11  -PLC\_03:1.7 G3104
- 12  -PLC\_03:1.8 G3105
- 13  -PLC\_03:1.9 G3106
- 14  -TB5.1:12 G3128
- 15  -G3\_TR:5 G3129
- 16  -G3\_TB2:36 G3138
- 17  -G3\_CBXB1:A1 G3131
- 18  -G3\_CBXB1:A2 25
- 19  -TB6:1 24 12GA WIRE
- 20  -TB6:3 25 12GA WIRE
- 21  -G3\_CBXB1:2 615
- 22  -G3\_CBXB1:3 642
- 23  -G3\_CBXB1:5 670
- 24  -G3\_CBXB1:6 671
- 25  -G3\_CR:5 G3134

TB5.1

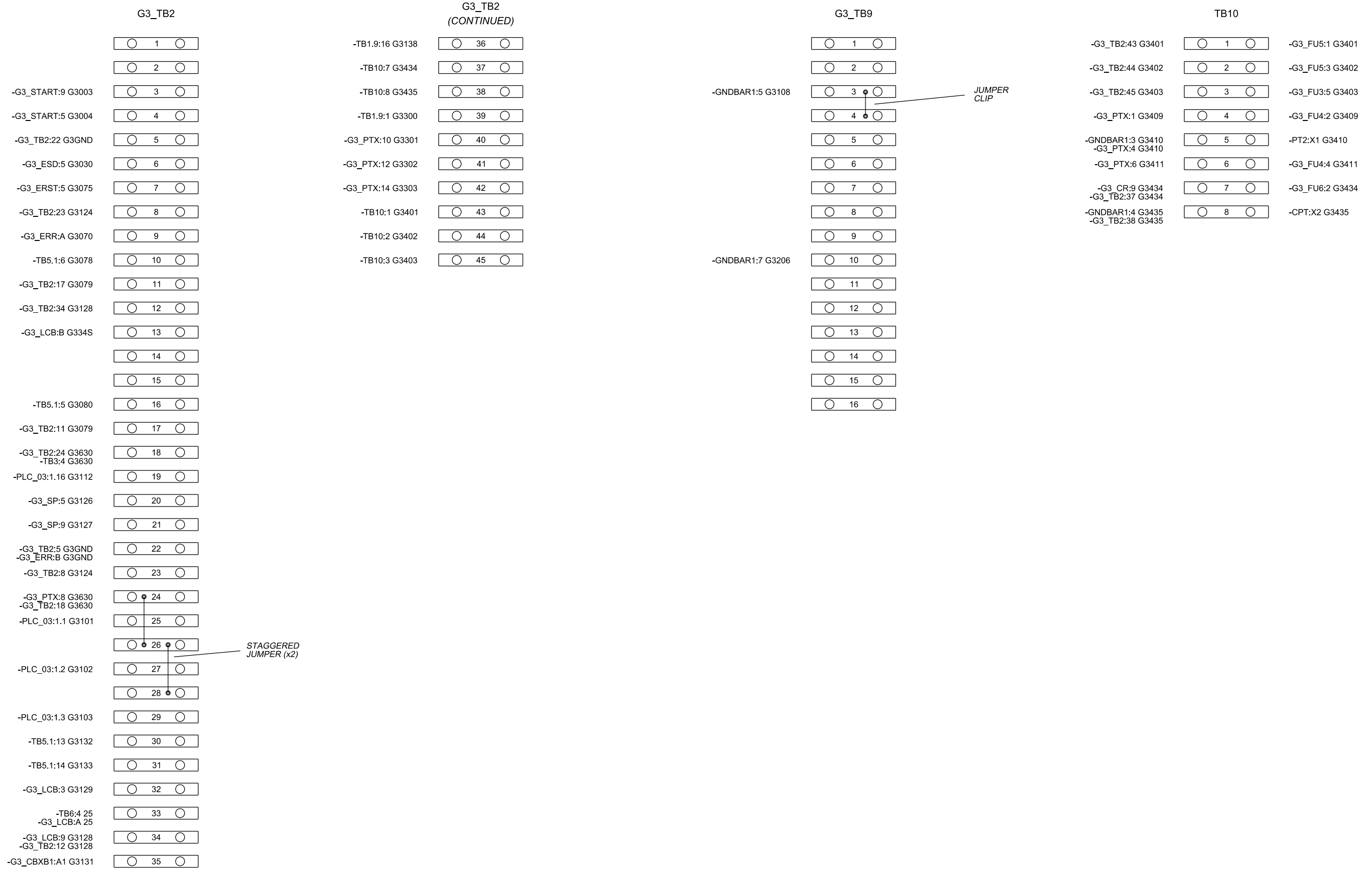
- 1  -G3\_ERST:9 G3GND
- 2  -G3\_ERR:A G3070
- 3  -G3\_START:9 G3003
- 4  -G3\_START:5 G3004
- 5  -G3\_TB2:16 G3080
- 6  -G3\_TB2:10 G3078
- 7  -TB1.9:10 G3630  
-TB3:3 G3630
- 8  -PLC\_03:1.11 G3107
- 9  -PLC\_03:1.12 G3109
- 10  -PLC\_03:1.13 G3110
- 11  -PLC\_03:1.14 G3111
- 12  -TB1.9:14 G3128  
-G3\_FU2:2 G3128
- 13  -G3\_TB2:30 G3132
- 14  -G3\_TB2:31 G3133
- 15  -G3\_ERR:7 154
- 16  -G3\_ERR:4 155

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	TITLE <b>WIRING DIAG. - SECTION 8 (GEN 3)</b>	
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR		
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	SCALE	SHEET 109 of 179 DWG. NO. SGP-1350
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10	PLOTTED	
				CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION  
8

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER RIGHTPAN

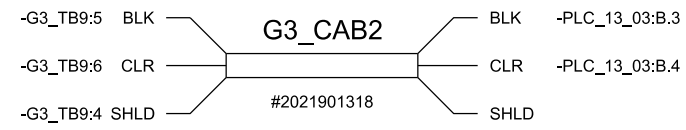
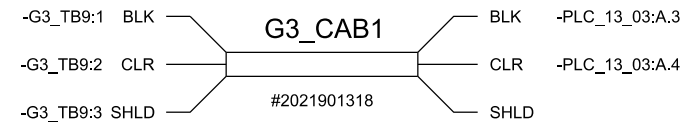


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.</small> <small>THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	<b>TITLE</b> WIRING DIAG. - SECTION 8 (GEN 3)
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN		1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED		RMB 1-5-10	
				APPROVED		RMB 1-5-10	SCALE: _____ CAD NO.: _____ SHEET: 110 OF 179 PLOTTED: _____ DWG. NO.: SGP-1350

SECTION/FUNCTION  
8

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# CABLES



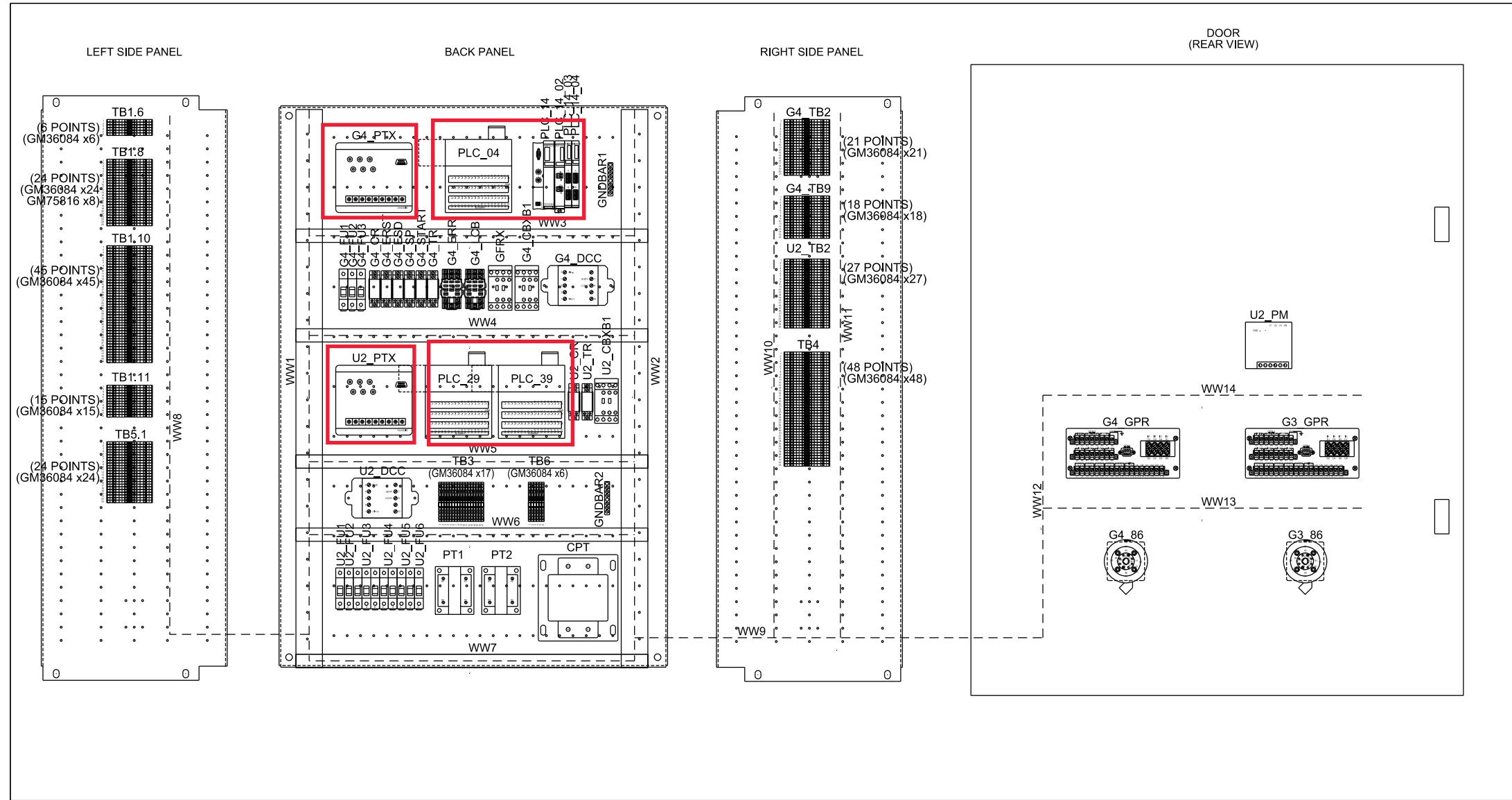
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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION 8	PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED	DWG. NO. SGP-1350	SHEET E 111 OF 179
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SECTION 9



Combine PLC\_04 and PLC\_14 into one PLC using Allen-Bradley CompacLogix

Combine PLC\_29 and PLC\_39 into one PLC using Allen-Bradley CompacLogix

Replace existing G4\_PTX with unit that can communicate Modbus RTU Slave.

Replace existing U2\_PTX with unit that can communicate Modbus RTU Slave.

PARTS LIST			
Device ID	Part Number	Device ID	Part Number
CPT	320828	PLC_39	GM14131
CPT	X-6121-118	PLC_39	GM14124
G3_86	X-6155-6	PLC_39	X-6429-9
G3_GPR	X-6156-117	PT1	346258
G3_GPR	X-6156-115	PT1	X-6121-90
G4_86	X-6155-6	PT1	X-50-8
G4_CAB1	2021901318	PT2	X-50-8
G4_CAB2	2021901318	PT2	X-6121-90
G4_CBXB1	ES-41140	PT2	346258
G4_CONN	GM23792	U2_CBXB1	ES-41140
G4_CR	X-6124-13	U2_CR	X-6124-12
G4_CR	X-6124-12	U2_CR	X-6124-13
G4_CR	X-6137-5	U2_CR	X-6137-5
G4_DCC	GM46869	U2_DCC	X-49-43
G4_DCC	GM47008	U2_DCC	X-22-24
G4_DCC	GM47021	U2_DCC	GM47021
G4_DCC	X-49-43	U2_DCC	GM47008
G4_DCC	X-22-24	U2_DCC	GM46869
G4_ERR	X-6124-5	U2_FU1	X-6135-6
G4_ERR	X-6124-4	U2_FU1	X-6129-16
G4_ERR	291309	U2_FU2	X-6135-6
G4_ERST	X-6137-5	U2_FU2	X-6129-16
G4_ERST	X-6124-13	U2_FU3	X-6129-29
G4_ESD	X-6124-12	U2_FU3	294552
G4_ESD	X-6124-13	U2_FU4	X-6129-20
G4_ESD	X-6137-5	U2_FU4	X-6135-1
G4_FU1	X-6135-6	U2_FU5	X-6129-28
G4_FU1	X-6129-16	U2_FU5	X-6135-41
G4_FU2	X-6135-6	U2_FU6	X-6129-16
G4_FU2	X-6129-16	U2_PM	X-6170-48
G4_FU3	X-6129-16	U2_PTX	353123
G4_FU3	X-6135-6	U2_PTX	GM22864
G4_GPR	X-6156-117	U2_PTX	X-6429-9
G4_GPR	X-6156-115	U2_TR	X-6137-5
G4_LCB	X-6124-5	U2_TR	X-6124-13
G4_LCB	X-6124-4	U2_TR	X-6124-13
G4_LCB	291309		
G4_PTX	353123		
G4_PTX	GM22864		
G4_PTX	X-6429-9		
G4_SP	X-6124-13		
G4_SP	X-6124-12		
G4_SP	X-6137-5		
G4_START	X-6124-12		
G4_START	X-6124-13		
G4_START	X-6137-5		
G4_TR	X-6137-5		
G4_TR	X-6124-12		
G4_TR	X-6124-13		
GFRX	ES-41140		
GNDBAR1	GM12266		
GNDBAR1	GM12266		
GNDBAR2	GM12266		
PLC_04	GM14133		
PLC_04	GM14124		
PLC_04	GM14130		
PLC_04	GM22866		
PLC_04	X-6429-9		
PLC_14	GM45909		
PLC_14	GM39245		
PLC_14	X-6429-9		
PLC_14_02	GM45910		
PLC_14_02	GM39246		
PLC_14_02	GM39256		
PLC_14_03	GM39251		
PLC_14_03	GM39257		
PLC_14_03	GM45911		
PLC_14_04	GM45911		
PLC_14_04	GM39257		
PLC_14_04	GM39248		
PLC_29	GM14124		
PLC_29	GM14131		
PLC_29	GM14134		
PLC_29	X-6429-9		
PLC_39	GM14137		

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB 1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB 1-5-10

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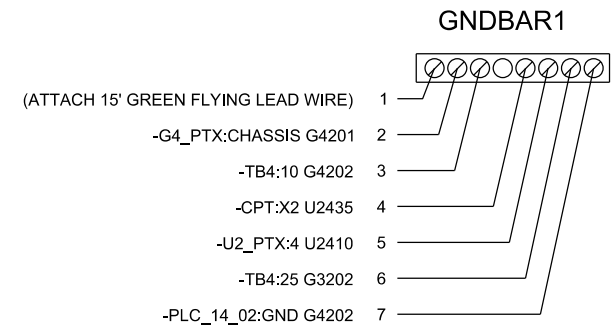
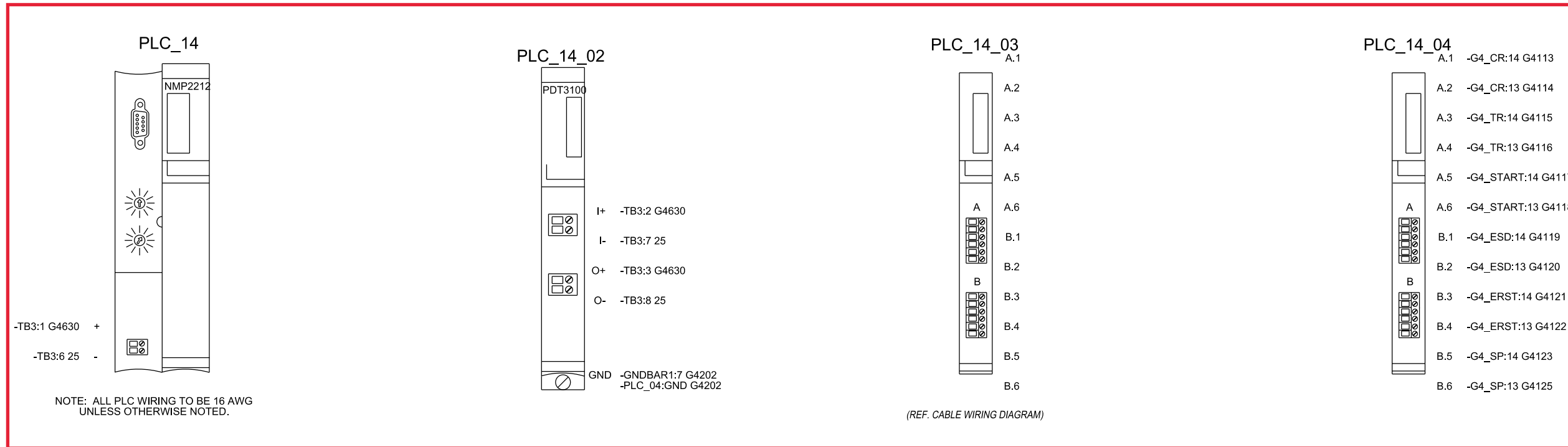
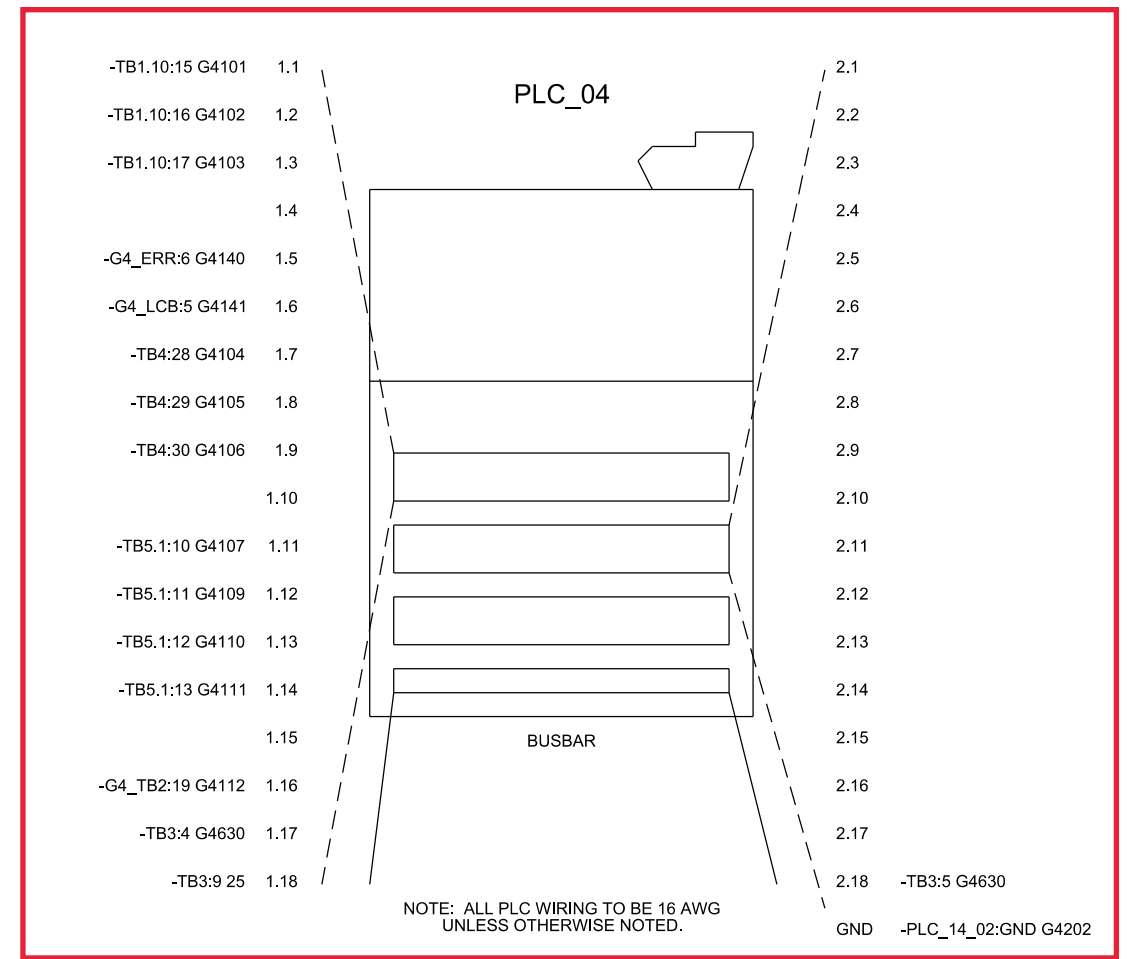
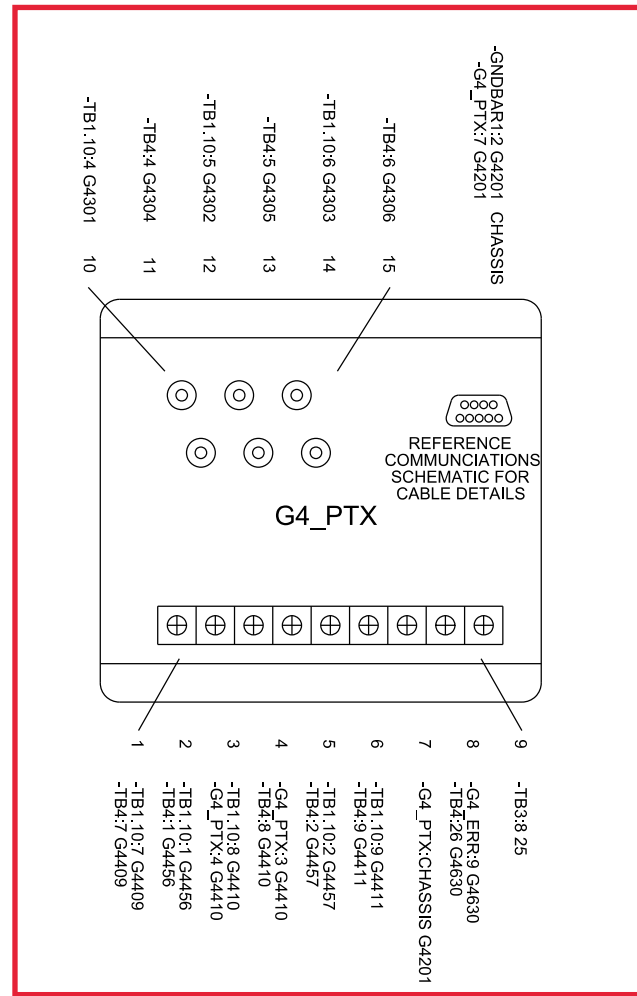
TITLE: **PANEL LAYOUT SECTION 9**  
 (UTILITY 2 / GEN 4)

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET: 112 OF 179  
 PLOTTED: \_\_\_\_\_ DWG. NO. SGP-1350 D

BACKPANEL

Combine PLC\_04 and PLC\_14 into one PLC using Allen-Bradley CompacLogix

Replace existing G4\_PTX with unit that can communicate Modbus RTU Slave.

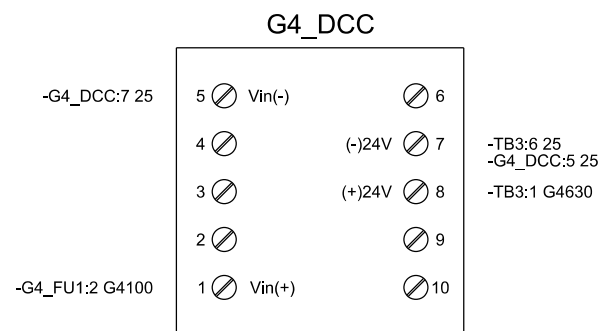
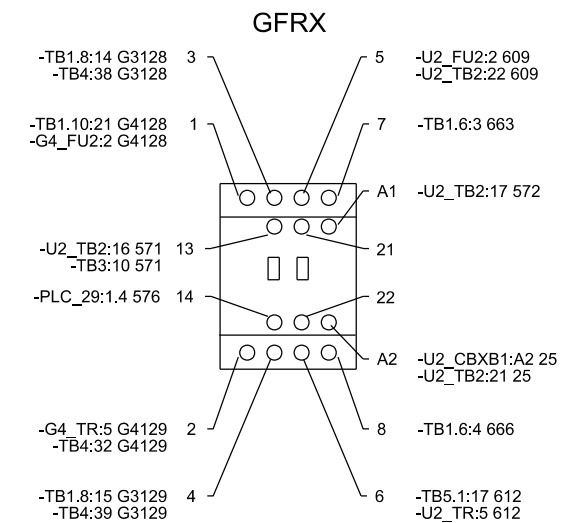
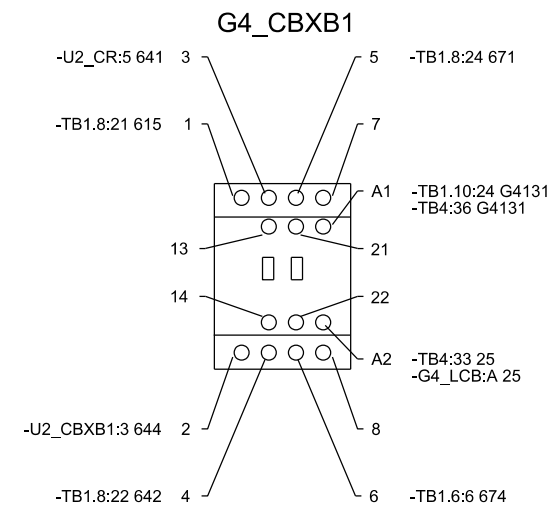
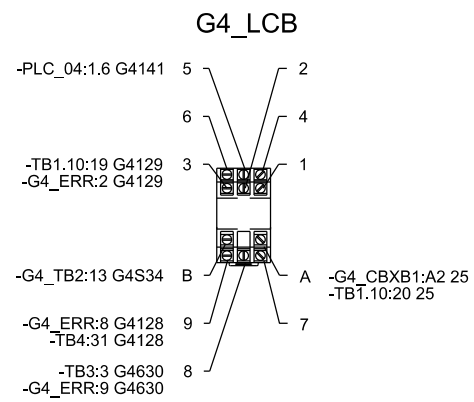
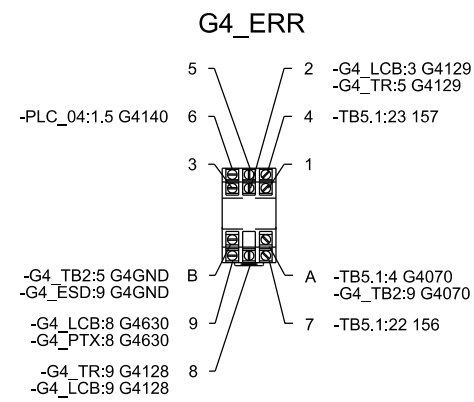
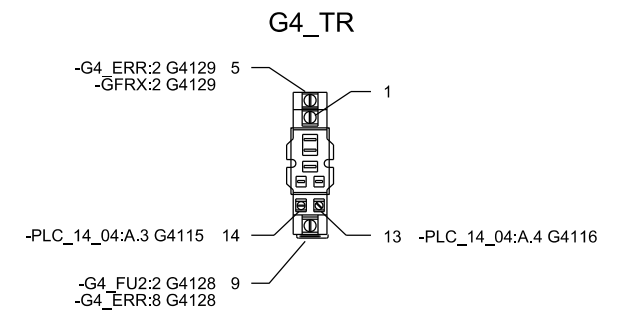
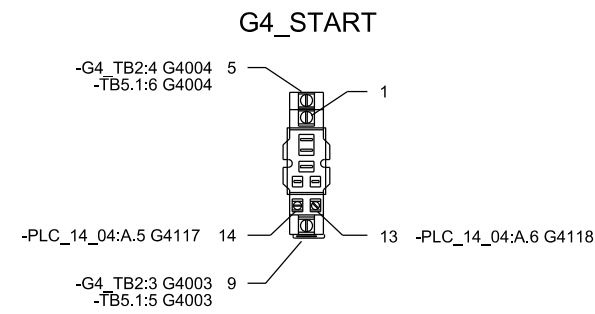
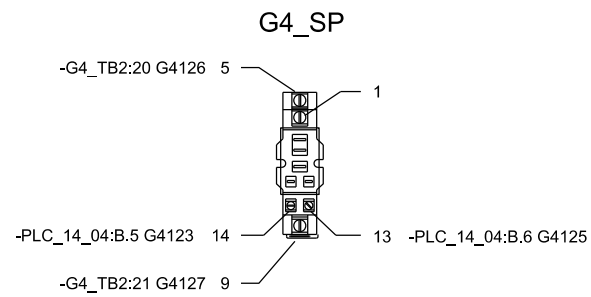
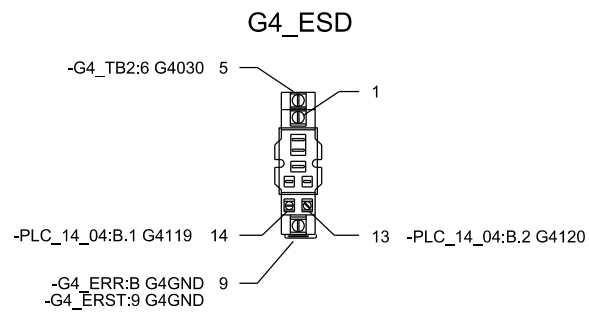
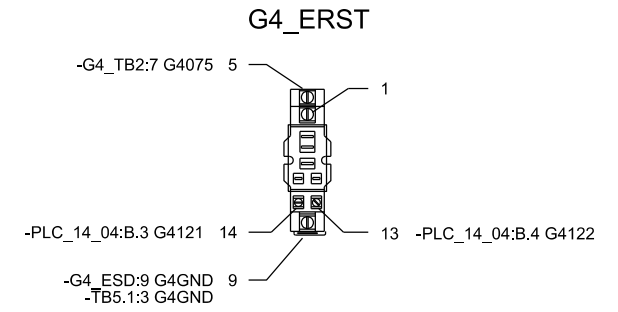
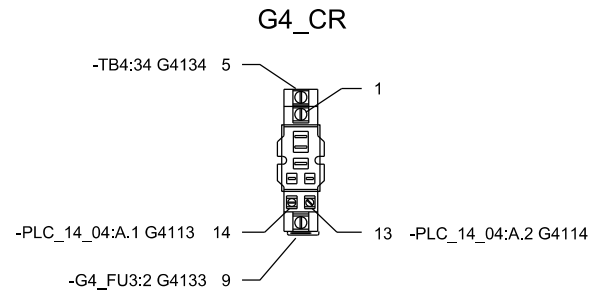
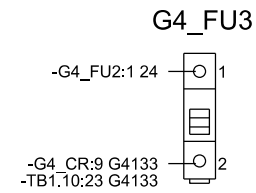
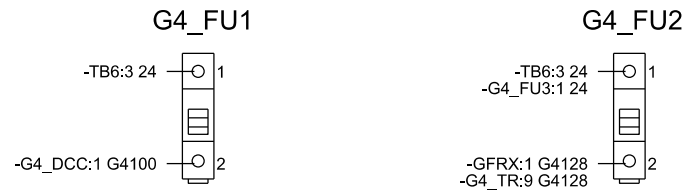


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	1-5-10	1-5-10	SHEET 113 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	APPROVED	1-5-10	DWG. NO.	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	1-5-10	1-5-10	SGP-1350	

SECTION/FUNCTION 9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACKPANEL

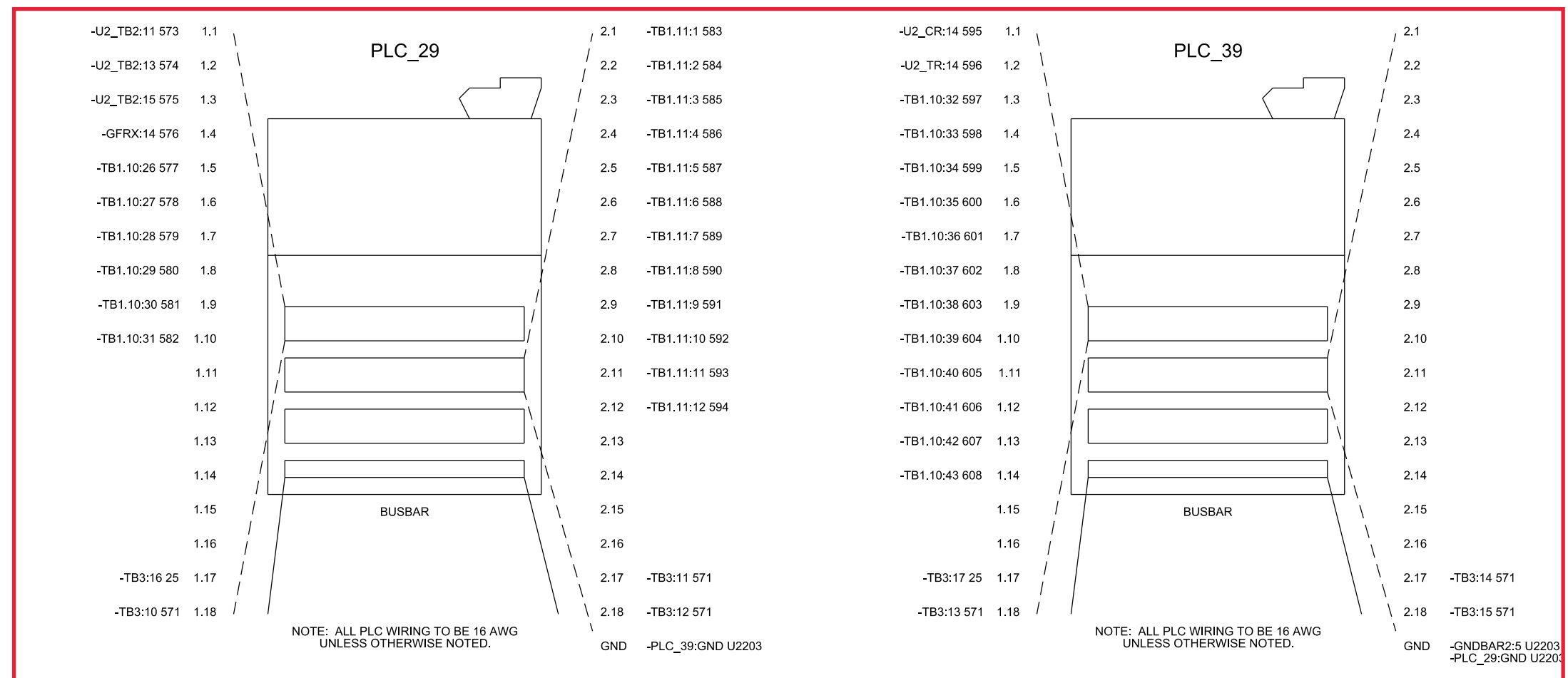
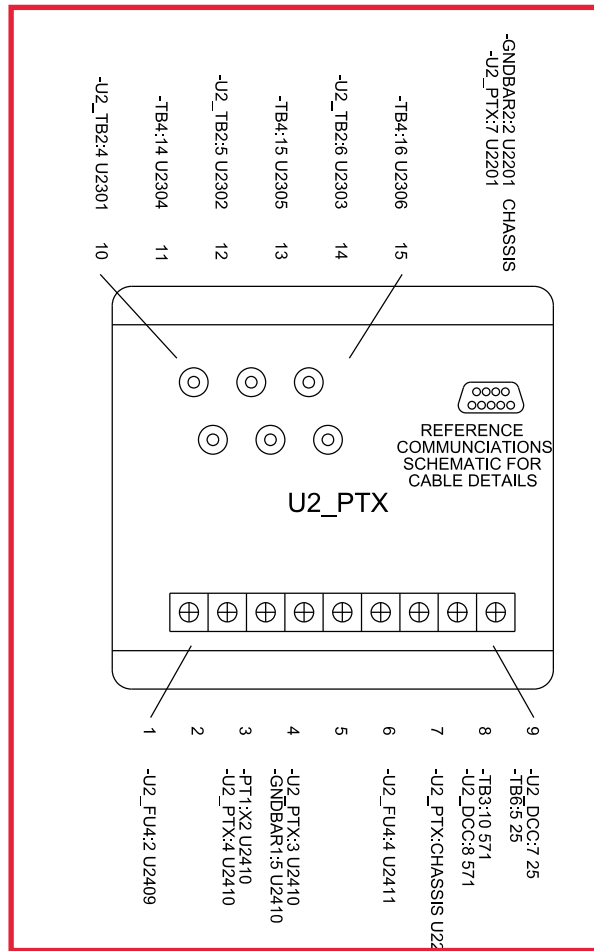


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	TITLE: WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)			
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE: CAD NO. SHEET 114 OF 179			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	PLOTTED: DWG. NO. SGP-1350			
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	APPROVED: RMB			
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10			

SECTION/FUNCTION 9

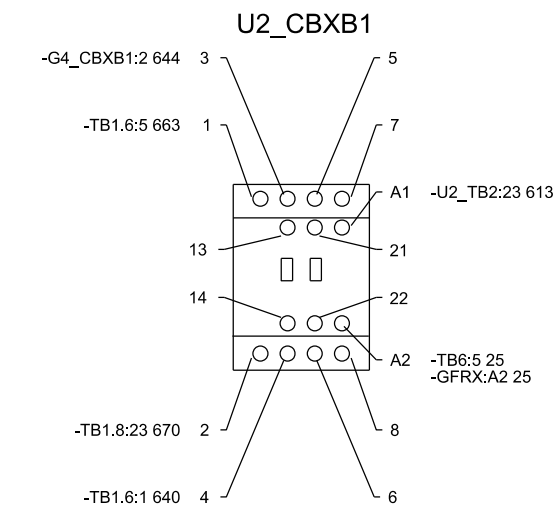
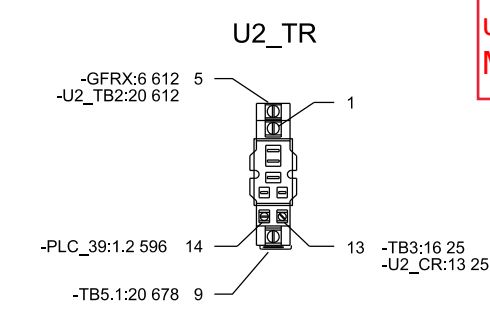
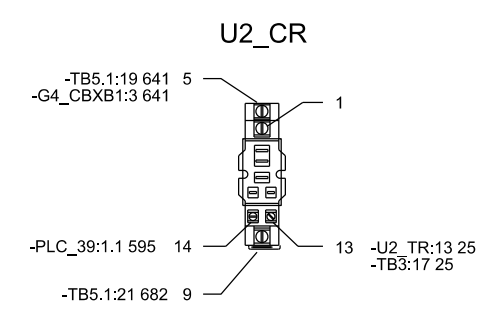
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACKPANEL



Combine PLC\_29 and PLC\_39 into one PLC using Allen-Bradley CompacLogix

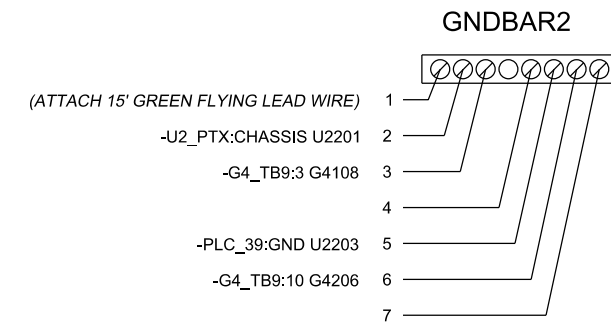
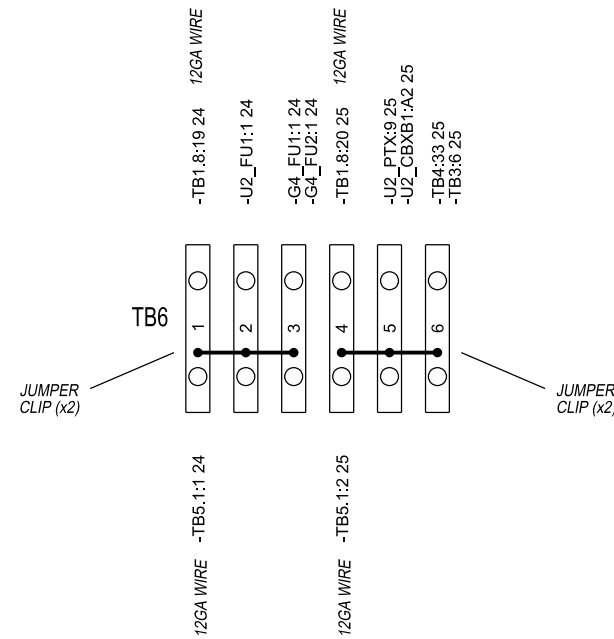
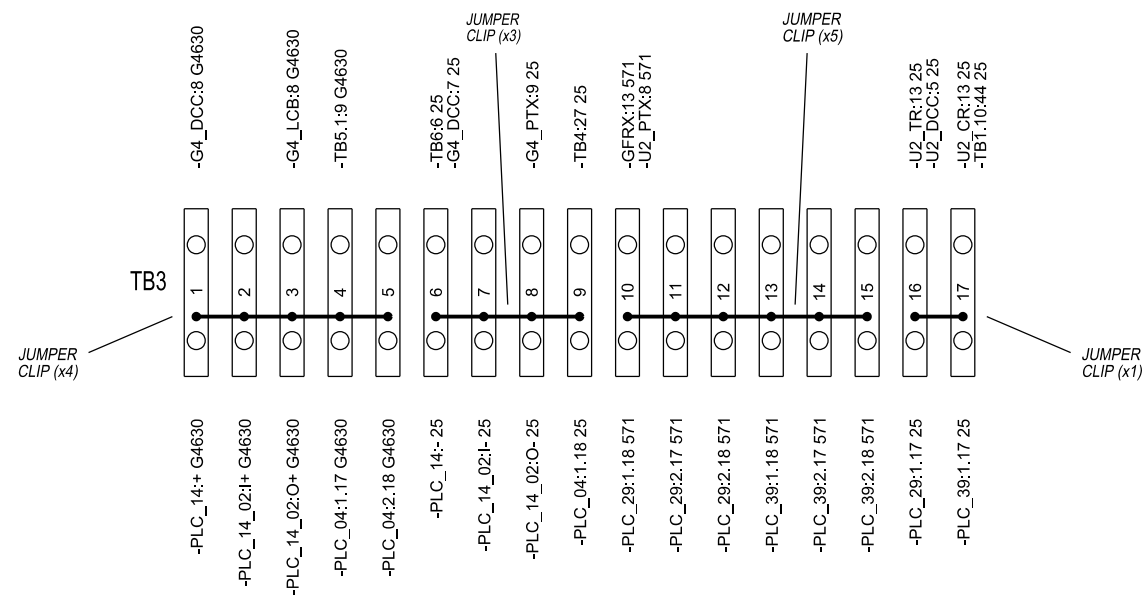
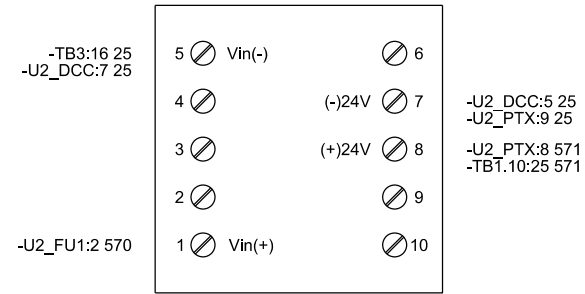
Replace existing U2\_PTX with unit that can communicate Modbus RTU Slave.



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	APPROVALS	DATE	TITLE	SCALE
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR		1-5-10	WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)	
A	1-27-10	FOR APPROVAL [89286]	PJL						
B	5-14-10	FOR MANUFACTURING [89803]	RTR						
C	7-21-10	AS BUILT [90178]	RTR						
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM						
				CHECKED	RMB		1-5-10		
				APPROVED	RMB		1-5-10		
SECTION/FUNCTION	9			DRAWN		DATE		SHEET 115 OF 179	
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWC NO.		DWG. NO.		SGP-1350 D	

# BACK PANEL

## U2\_DCC



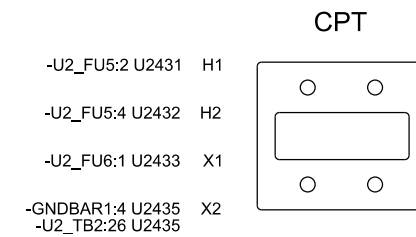
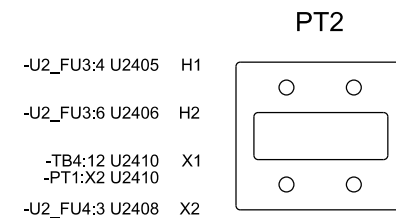
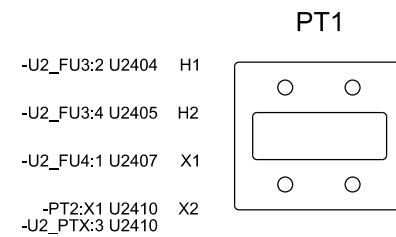
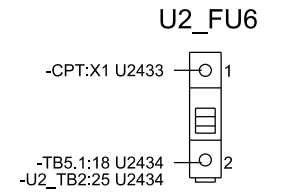
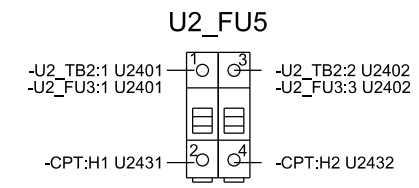
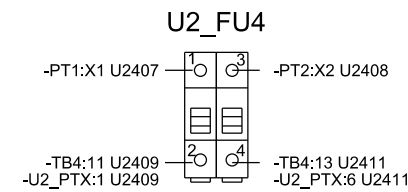
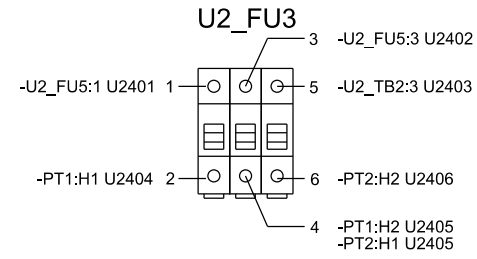
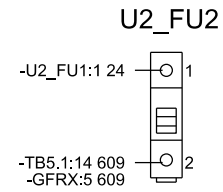
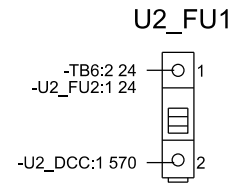
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
				APPROVED RMB	1-5-10

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TITLE: WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)		
SCALE	CAD NO.	SHEET 116 OF 179
DWC NO.		SGP-1350

SECTION/FUNCTION 9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	PLOTTED	SHEET 117 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	DWG. NO.	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION  
9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED SGP-1350 D

# UPPER LEFTPAN

## TB1.6

○ 1 ○	-U2_CBXB1:4 640
○ 2 ○	-U2_TB2:24 645
○ 3 ○	-GFRX:7 663
○ 4 ○	-GFRX:8 666
○ 5 ○	-U2_CBXB1:1 663
○ 6 ○	-G4_CBXB1:6 674

## TB1.8

○ 1 ○	-TB4:18 G3300
○ 2 ○	-TB4:19 G3304
○ 3 ○	-TB4:20 G3305
○ 4 ○	-TB4:21 G3306
○ 5 ○	-TB4:22 G3409
○ 6 ○	-TB4:23 G3410
○ 7 ○	-TB4:24 G3411
○ 8 ○	-TB1.10:1 G4456
○ 9 ○	-TB1.10:2 G4457
○ 10 ○	-TB4:37 G3630
○ 11 ○	-TB4:44 G3104
○ 12 ○	-TB4:45 G3105
○ 13 ○	-TB4:46 G3106
○ 14 ○	-GFRX:3 G3128
○ 15 ○	-GFRX:4 G3129
○ 16 ○	-TB4:43 G3138
○ 17 ○	-TB4:40 G3131
○ 18 ○	-TB4:41 25
○ 19 ○	-TB6:1 24 12GA WIRE
○ 20 ○	-TB6:4 25 12GA WIRE
○ 21 ○	-G4_CBXB1:1 615
○ 22 ○	-G4_CBXB1:4 642
○ 23 ○	-U2_CBXB1:2 670
○ 24 ○	-G4_CBXB1:5 671
○ 25 ○	-TB4:42 G3134

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b>	
				PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR		
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR				
C	7-21-10	AS BUILT [90178]	RTR	DRAWN		DATE	
				CHECKED		DATE	
				RMB		1-5-10	
				APPROVED		DATE	
				RMB		1-5-10	
SECTION/FUNCTION 9		PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SCALE DWG. NO. SGP-1350 SHEET 118 OF 179	

# UPPER LEFTPAN

## TB1.10

○ 1 ○	-TB1.8:8 G4456 -G4_PTX:2 G4456
○ 2 ○	-TB1.8:9 G4457 -G4_PTX:5 G4457
○ 3 ○	-TB4:3 G4300
○ 4 ○	-G4_PTX:10 G4301
○ 5 ○	-G4_PTX:12 G4302
○ 6 ○	-G4_PTX:14 G4303
○ 7 ○	-G4_PTX:1 G4409
○ 8 ○	-G4_PTX:3 G4410
○ 9 ○	-G4_PTX:6 G4411
○ 10 ○	-U2_TB2:9 G4350
○ 11 ○	-U2_TB2:8 G4351
○ 12 ○	-TB5.1:3 G4GND
○ 13 ○	-G4_TB2:8 G4124
○ 14 ○	-TB5.1:9 G4630
○ 15 ○	-PLC_04:1.1 G4101
○ 16 ○	-PLC_04:1.2 G4102
○ 17 ○	-PLC_04:1.3 G4103
○ 18 ○	-TB1.10:21 G4128
○ 19 ○	-G4_LCB:3 G4129
○ 20 ○	-G4_LCB:A 25
○ 21 ○	-TB1.10:18 G4128 -GFRX:1 G4128
○ 22 ○	-TB4:35 G4138
○ 23 ○	-G4_FU3:2 G4133
○ 24 ○	-G4_CBXB1:A1 G4131
○ 25 ○	-U2_DCC:8 571
○ 26 ○	-PLC_29:1.5 577
○ 27 ○	-PLC_29:1.6 578
○ 28 ○	-PLC_29:1.7 579
○ 29 ○	-PLC_29:1.8 580
○ 30 ○	-PLC_29:1.9 581
○ 31 ○	-PLC_29:1.10 582
○ 32 ○	-PLC_39:1.3 597
○ 33 ○	-PLC_39:1.4 598
○ 34 ○	-PLC_39:1.5 599
○ 35 ○	-PLC_39:1.6 600

## TB1.10 (CONTINUED)

○ 36 ○	-PLC_39:1.7 601
○ 37 ○	-PLC_39:1.8 602
○ 38 ○	-PLC_39:1.9 603
○ 39 ○	-PLC_39:1.10 604
○ 40 ○	-PLC_39:1.11 605
○ 41 ○	-PLC_39:1.12 606
○ 42 ○	-PLC_39:1.13 607
○ 43 ○	-PLC_39:1.14 608
○ 44 ○	-TB3:17 25

## TB1.11

○ 1 ○	-PLC_29:2.1 583
○ 2 ○	-PLC_29:2.2 584
○ 3 ○	-PLC_29:2.3 585
○ 4 ○	-PLC_29:2.4 586
○ 5 ○	-PLC_29:2.5 587
○ 6 ○	-PLC_29:2.6 588
○ 7 ○	-PLC_29:2.7 589
○ 8 ○	-PLC_29:2.8 590
○ 9 ○	-PLC_29:2.9 591
○ 10 ○	-PLC_29:2.10 592
○ 11 ○	-PLC_29:2.11 593
○ 12 ○	-PLC_29:2.12 594

## TB5.1

○ 1 ○	-TB6:1 24 12GA WIRE
○ 2 ○	-TB6:4 25 12GA WIRE
○ 3 ○	-G4_ERST:9 G4GND -TB1.10:12 G4GND
○ 4 ○	-G4_ERR:A G4070
○ 5 ○	-G4_START:9 G4003
○ 6 ○	-G4_START:5 G4004
○ 7 ○	-G4_TB2:16 G4080
○ 8 ○	-G4_TB2:10 G4078
○ 9 ○	-TB1.10:14 G4630 -TB3:4 G4630
○ 10 ○	-PLC_04:1.11 G4107
○ 11 ○	-PLC_04:1.12 G4109
○ 12 ○	-PLC_04:1.13 G4110
○ 13 ○	-PLC_04:1.14 G4111
○ 14 ○	-U2_FU2:2 609
○ 15 ○	-U2_TB2:18 610
○ 16 ○	-U2_TB2:19 611
○ 17 ○	-GFRX:6 612
○ 18 ○	-U2_FU6:2 U2434
○ 19 ○	-U2_CR:5 641
○ 20 ○	-U2_TR:9 678
○ 21 ○	-U2_CR:9 682
○ 22 ○	-G4_ERR:7 156
○ 23 ○	-G4_ERR:4 157

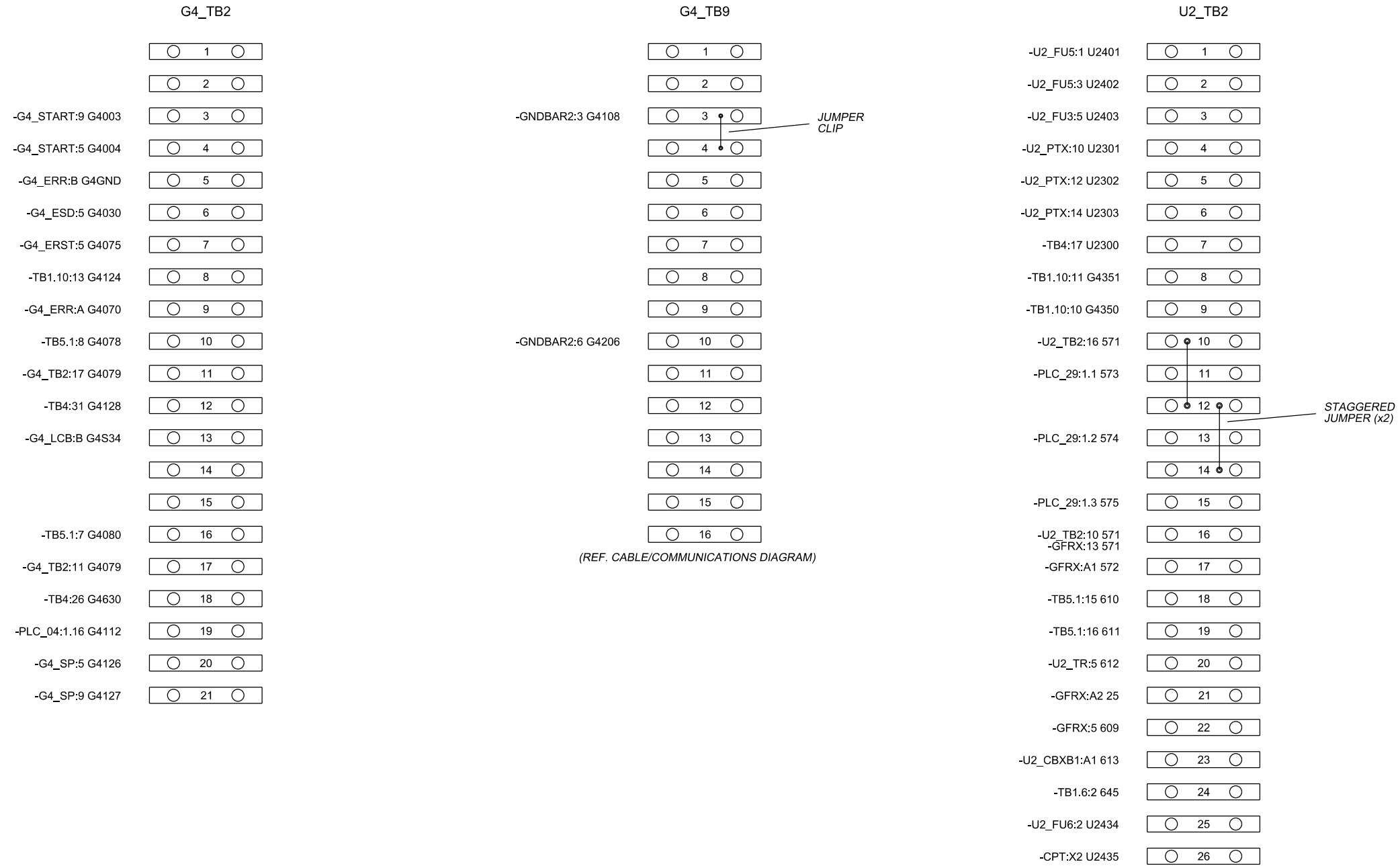
CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10
SECTION/FUNCTION 9				SCALE 1:1		
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWG. NO. SGP-1350		
				SHEET 119 OF 179		

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TITLE  
**WIRING DIAG. - SECTION 9  
(UTILITY 2 / GEN 4)**



# UPPER RIGHTPAN



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
				APPROVED RMB	1-5-10

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TITLE: WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)		
SCALE	CAD NO.	SHEET 120 OF 179
	DWG. NO.	SGP-1350

SECTION/FUNCTION  
9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER RIGHTPAN

TB4

-G4_PTX:2 G4456	○ 1 ○	-G4_GPR:C17 G4456
-G4_PTX:5 G4457	○ 2 ○	-G4_GPR:C18 G4457
-TB1.10:3 G4300	○ 3 ○	-G4_GPR:D2 G4300
-G4_PTX:11 G4304	○ 4 ○	-G4_GPR:D1 G4304
-G4_PTX:13 G4305	○ 5 ○	-G4_GPR:D3 G4305
-G4_PTX:15 G4306	○ 6 ○	-G4_GPR:D5 G4306
-G4_PTX:1 G4409	○ 7 ○	-G4_GPR:C13 G4409
-G4_PTX:4 G4410	○ 8 ○	-G4_GPR:C14 G4410
-G4_PTX:6 G4411	○ 9 ○	-G4_GPR:C15 G4411
-GNDBAR1:3 G4202	○ 10 ○	-G4_GPR:A8 G4202
-U2_FU4:2 U2409	○ 11 ○	-U2_PM:V1 U2409
-PT2:X1 U2410	○ 12 ○	-U2_PM:V2 U2410
-U2_FU4:4 U2411	○ 13 ○	-U2_PM:V3 U2411
-U2_PTX:11 U2304	○ 14 ○	-U2_PM:I1+ U2304
-U2_PTX:13 U2305	○ 15 ○	-U2_PM:I2+ U2305
-U2_PTX:15 U2306	○ 16 ○	-U2_PM:I3+ U2306
-U2_TB2:7 U2300	○ 17 ○	-U2_PM:I1- U2300
-TB1.8:1 G3300	○ 18 ○	-G3_GPR:D2 G3300
-TB1.8:2 G3304	○ 19 ○	-G3_GPR:D1 G3304
-TB1.8:3 G3305	○ 20 ○	-G3_GPR:D3 G3305
-TB1.8:4 G3306	○ 21 ○	-G3_GPR:D5 G3306
-TB1.8:5 G3409	○ 22 ○	-G3_GPR:C13 G3409
-TB1.8:6 G3410	○ 23 ○	-G3_GPR:C14 G3410
-TB1.8:7 G3411	○ 24 ○	-G3_GPR:C15 G3411
-GNDBAR1:6 G3202	○ 25 ○	-U2_PM:GND G3202
-G4_PTX:8 G4630	○ 26 ○	-G4_86:12 G4630
-G4_TB2:18 G4630	○ 27 ○	-G4_GPR:A7 25
-TB3:9 25	○ 27 ○	-G4_GPR:A7 25
-PLC_04:1.7 G4104	○ 28 ○	-G4_86:18 G4104
-PLC_04:1.8 G4105	○ 29 ○	-G4_GPR:C4 G4105
-PLC_04:1.9 G4106	○ 30 ○	-G4_GPR:C12 G4106
-G4_LCB:9 G4128	○ 31 ○	-G4_GPR:C1 G4128
-G4_TB2:12 G4128	○ 32 ○	-G4_86:14 G4129
-GFRX:2 G4129	○ 32 ○	-G4_86:14 G4129
-TB6:6 25	○ 33 ○	-G4_GPR:B2 25
-G4_CBXB1:A2 25	○ 33 ○	-G4_GPR:B2 25
-G4_CR:5 G4134	○ 34 ○	-G4_GPR:C5 G4134
-TB1.10:22 G4138	○ 35 ○	-G4_86:13 G4138

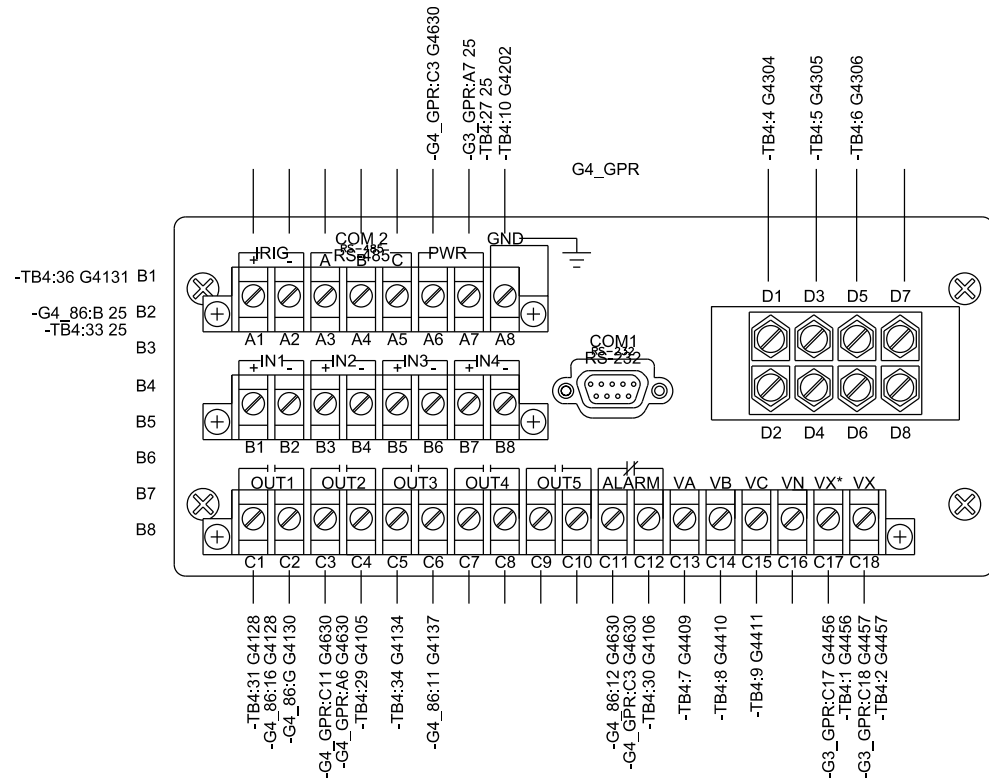
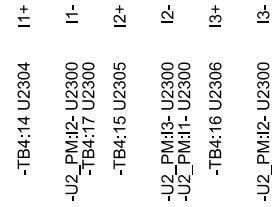
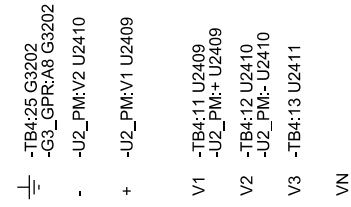
TB4  
(CONTINUED)

-G4_CBXB1:A1 G4131	○ 36 ○	-G4_GPR:B1 G4131
-TB1.8:10 G3630	○ 37 ○	-G3_86:12 G3630
-GFRX:3 G3128	○ 38 ○	-G3_GPR:C1 G3128
-GFRX:4 G3129	○ 39 ○	-G3_86:14 G3129
-TB1.8:17 G3131	○ 40 ○	-G3_GPR:B1 G3131
-TB1.8:18 25	○ 41 ○	-G3_GPR:B2 25
-TB1.8:25 G3134	○ 42 ○	-G3_GPR:C5 G3134
-TB1.8:16 G3138	○ 43 ○	-G3_86:13 G3138
-TB1.8:11 G3104	○ 44 ○	-G3_86:18 G3104
-TB1.8:12 G3105	○ 45 ○	-G3_GPR:C4 G3105
-TB1.8:13 G3106	○ 46 ○	-G3_GPR:C12 G3106

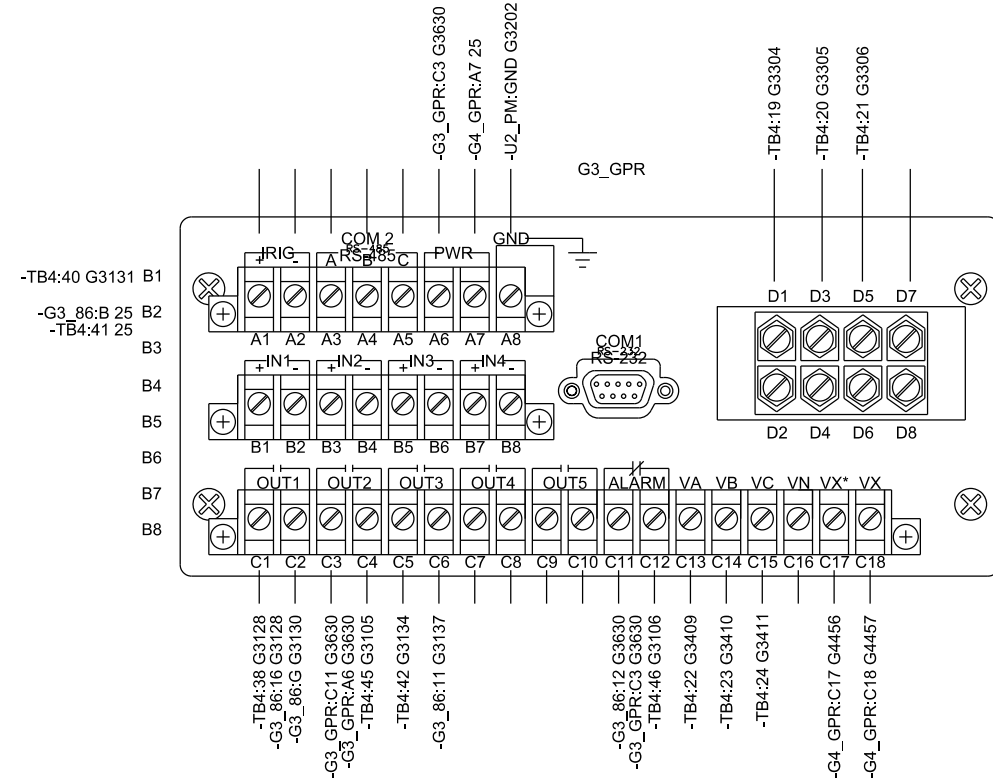
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90645	ITEM	SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	DATE	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DATE	1-5-10
				APPROVED	RMB	DATE	1-5-10
SECTION/FUNCTION 9				SCALE		DWC NO.	
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SHEET		E 121 OF 179	
				DWG. NO.		SGP-1350	

# DOOR

(REAR VIEW)



- D2 -TB4:3 G4300
- D4 -G4\_GPR:D4 G4300
- D6 -G4\_GPR:D6 G4300
- D8 -G4\_GPR:D4 G4300

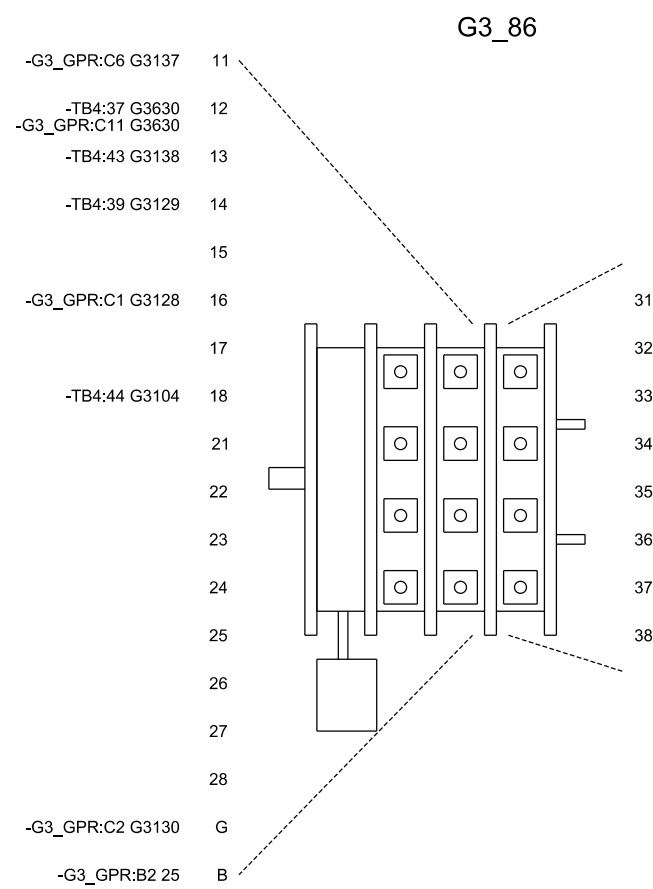
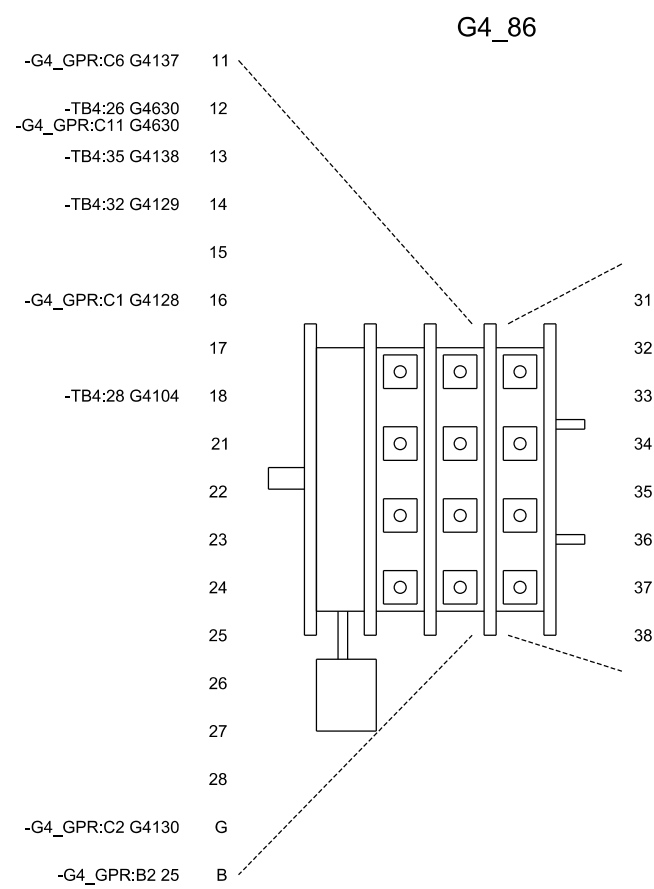


- D2 -TB4:18 G3300
- D4 -G3\_GPR:D4 G3300
- D6 -G3\_GPR:D6 G3300
- D8 -G3\_GPR:D4 G3300

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.</small> <small>THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	ITEM	SWGR	<b>TITLE</b> WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE		
B	5-14-10	FOR MANUFACTURING [89803]	RTR				
C	7-21-10	AS BUILT [90178]	RTR				
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10	SCALE
				APPROVED	RMB	1-5-10	CAD NO.
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350		D	

SECTION/FUNCTION  
9

**DOOR**  
(REAR VIEW)



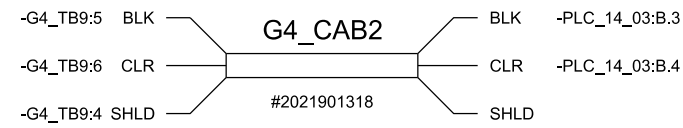
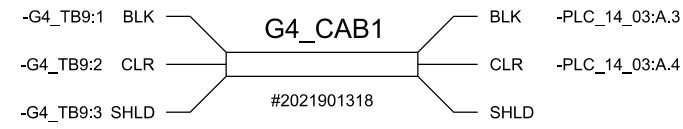
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL				SHEET 123 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	DWC NO.	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10	SGP-1350	
				CHECKED	RMB	D	
				APPROVED	RMB	D	

SECTION/FUNCTION  
9

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

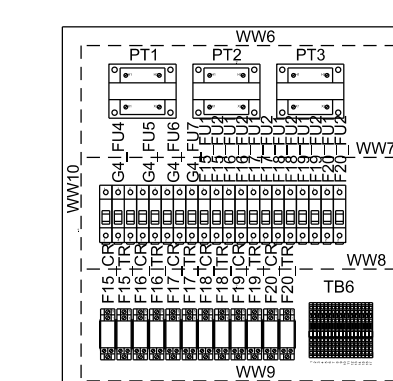
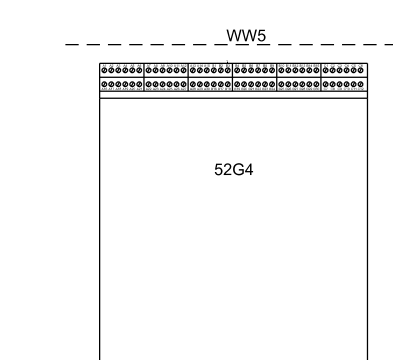
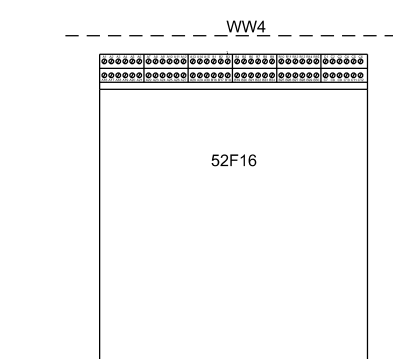
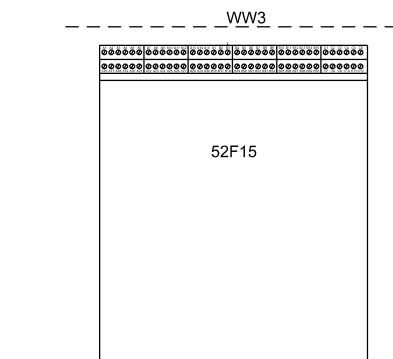
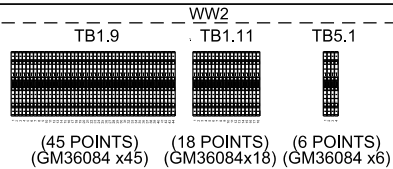
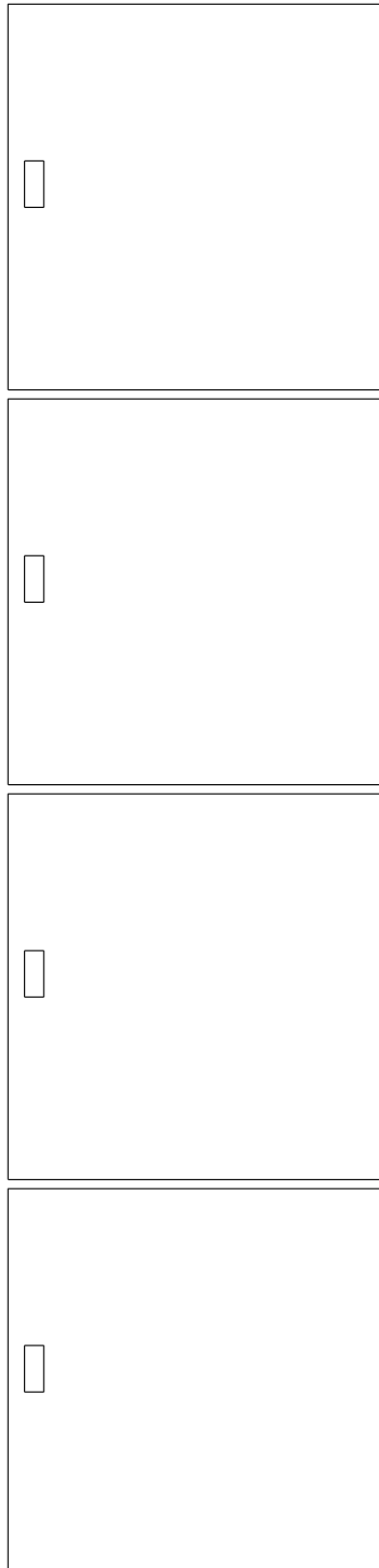
SGP-1350

# CABLES



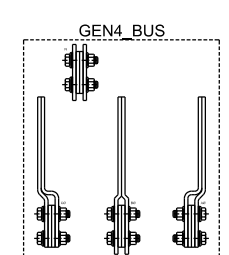
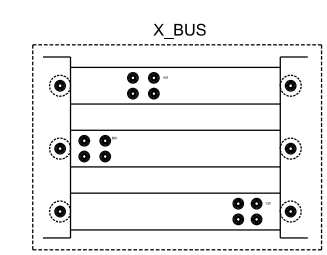
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.            THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND            MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.            ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	<b>TITLE</b> WIRING DIAG. - SECTION 9 (UTILITY 2 / GEN 4)
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS		DATE
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
				CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10
SECTION/FUNCTION 9				<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>		SCALE: DWG. NO. SGP-1350 SHEET 124 OF 179

DOOR  
(REAR VIEW)



(17 POINTS)  
(GM36084 x17)

REAR BUS AREA



PARTS LIST

Device ID	Part Number
F15_CR	X-6124-12
F15_CR	X-6124-13
F15_CR	X-6137-5
F15_FU1	X-6129-16
F15_FU1	X-6135-6
F15_FU2	X-6129-16
F15_FU2	X-6135-6
F15_TR	X-6137-5
F15_TR	X-6124-13
F15_TR	X-6124-12
F16_CR	X-6124-12
F16_CR	X-6124-13
F16_CR	X-6137-5
F16_FU1	X-6129-16
F16_FU1	X-6135-6
F16_FU2	X-6129-16
F16_FU2	X-6135-6
F16_TR	X-6137-5
F16_TR	X-6124-13
F16_TR	X-6124-12
F17_CR	X-6124-12
F17_CR	X-6124-13
F17_CR	X-6137-5
F17_FU1	X-6129-16
F17_FU1	X-6135-6
F17_FU2	X-6129-16
F17_FU2	X-6135-6
F17_TR	X-6137-5
F17_TR	X-6124-13
F17_TR	X-6124-12
F18_CR	X-6124-12
F18_CR	X-6124-13
F18_CR	X-6137-5
F18_FU1	X-6129-16
F18_FU1	X-6135-6
F18_FU2	X-6129-16
F18_FU2	X-6135-6
F18_TR	X-6137-5
F18_TR	X-6124-13
F18_TR	X-6124-12
F19_CR	X-6124-12
F19_CR	X-6124-13
F19_CR	X-6137-5
F19_FU1	X-6129-16
F19_FU1	X-6135-6
F19_FU2	X-6129-16
F19_FU2	X-6135-6
F19_TR	X-6137-5
F19_TR	X-6124-13
F19_TR	X-6124-12
F20_CR	X-6124-12
F20_CR	X-6124-13
F20_CR	X-6137-5
F20_FU1	X-6129-16
F20_FU1	X-6135-6
F20_FU2	X-6129-16
F20_FU2	X-6135-6
F20_TR	X-6137-5
F20_TR	X-6124-13
F20_TR	X-6124-12
G4_FU4	294552
G4_FU4	X-6129-29
G4_FU5	X-6129-20
G4_FU5	X-6135-1
G4_FU6	294552
G4_FU6	X-6129-28
G4_FU7	X-6129-16
G4_FU7	X-6135-1
G4_STB2	X-6126-25
PT1	346258
PT1	X-6121-90
PT1	X-50-8
PT2	X-50-8
PT2	X-6121-90
PT2	346258
PT3	346258
PT3	X-6121-90
PT3	X-50-8

CAE GENERATED DRAWING			PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645 SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS DATE
C	7-21-10	AS BUILT [90178]	RTR	1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED RMB 1-5-10
			APPROVED RMB 1-5-10	

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**PANEL LAYOUT SECTION 10**  
(FEEDERS 15&16, GEN 4)

SCALE: CAD NO. SHEET 125 OF 179  
PLOTTED: Dwg. No. SGP-1350

SECTION/FUNCTION  
10

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

UPPER WIRE CHANNEL

TB1.9

○	1	○	-G4_FU7:2 G4456
○	2	○	-PT3:X2 G4457
○	3	○	-G4_STB1:4A G4300
○	4	○	-G4_STB1:1A G4301
○	5	○	-G4_STB1:3A G4302
○	6	○	-G4_STB1:5A G4303
○	7	○	-G4_FU5:2 G4409
○	8	○	-PT1:X2 G4410
○	9	○	-G4_FU5:4 G4411
○	10	○	-G4_STB2:2R G4350
○	11	○	-G4_STB2:1R G4351
○	12	○	-52G4:B20 G4GND
○	13	○	-52G4:B21 G4124
○	14	○	-52G4:C2 G4630
○	15	○	-52G4:B25 G4101
○	16	○	-52G4:A2 G4102
○	17	○	-52G4:C3 G4103
○	18	○	-52G4:A14 G4128
○	19	○	-52G4:B10 G4129
○	20	○	-52G4:B14 25
○	21	○	-52G4:C4 G4128
○	22	○	-52G4:B12 G4138
○	23	○	-52G4:B15 G4133
○	24	○	-52G4:C5 G4131
○	25	○	-TB1.11:1 571
○	26	○	-52F15:B25 577
○	27	○	-52F15:A2 578
○	28	○	-52F15:C3 579
○	29	○	-52F16:B25 580
○	30	○	-52F16:A2 581
○	31	○	-52F16:C3 582
○	32	○	-F15_CR:14 597
○	33	○	-F15_TR:14 598
○	34	○	-F16_CR:14 599
○	35	○	-F16_TR:14 600
○	36	○	-F17_CR:14 601
○	37	○	-F17_TR:14 602
○	38	○	-F18_CR:14 603
○	39	○	-F18_TR:14 604
○	40	○	-F19_CR:14 605
○	41	○	-F19_TR:14 606
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○	43	○	-F20_TR:14 608
○	44	○	-F20_TR:13 25

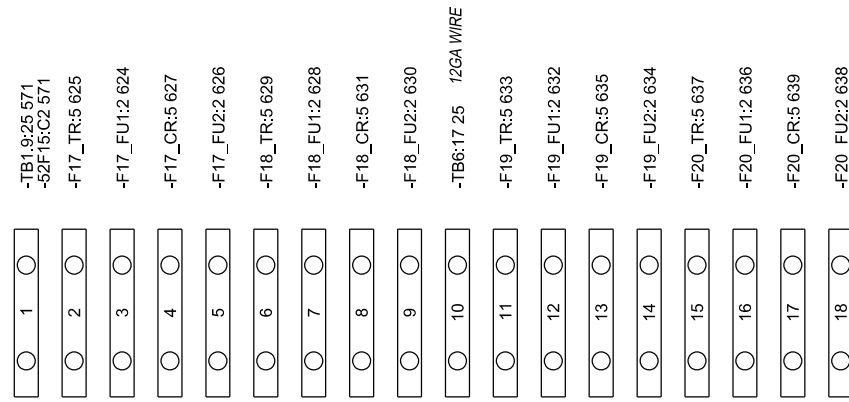
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	TITLE: <b>WIRING DIAG. SECTION 10          (FEEDERS 15&amp;16, GEN 4)</b>	
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR		
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	SCALE	SHEET E 126 of 179
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10	
				CHECKED	RMB	1-5-10	DWG. NO. SGP-1350
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION  
10

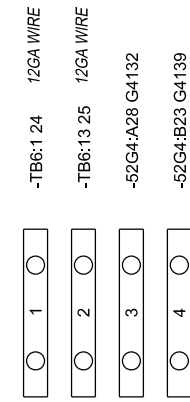
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

UPPER WIRE CHANNEL

TB1.11



TB5.1



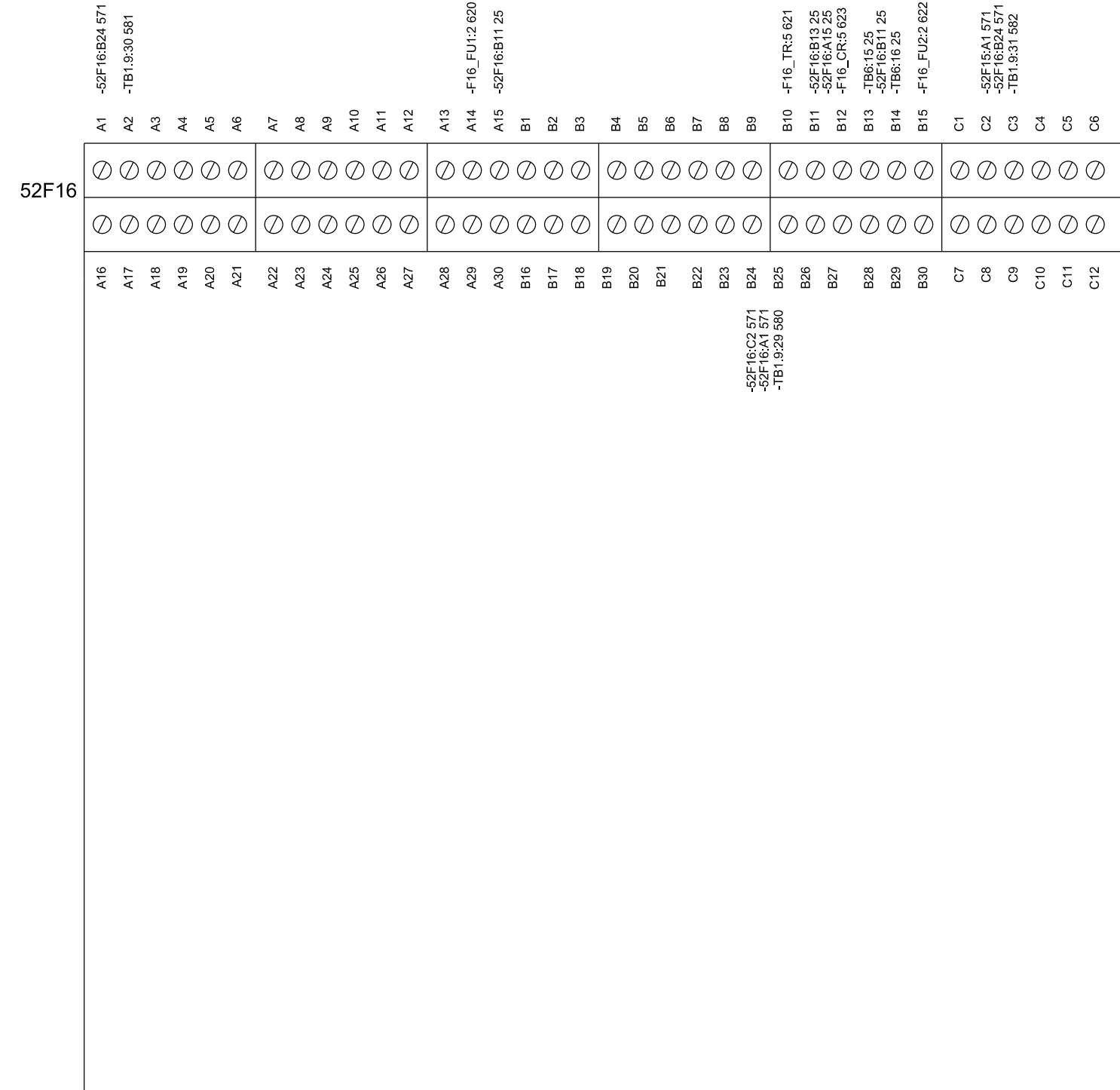
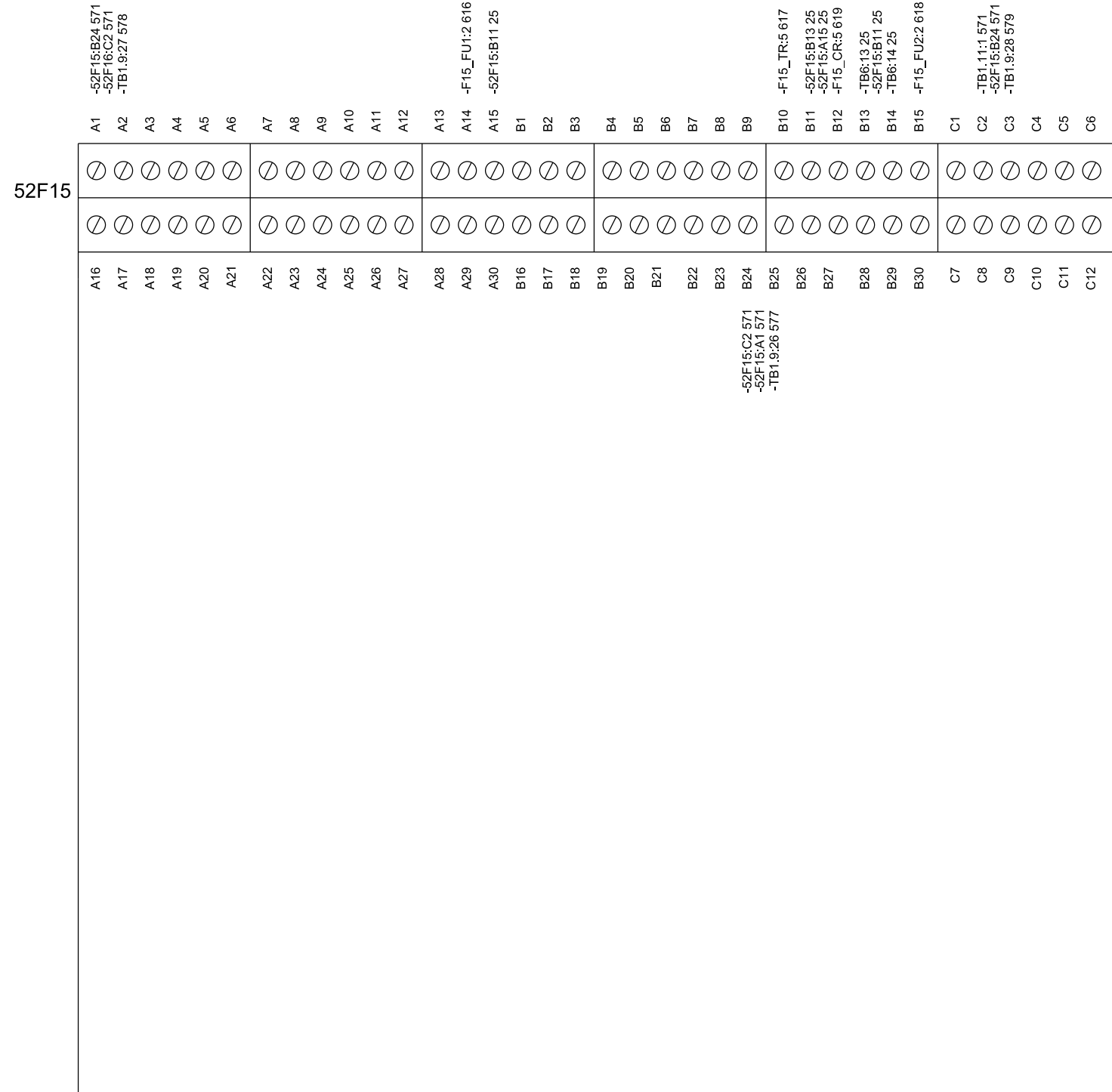
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND          MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.          ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		TITLE: WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645	SWGR	SHEET E 127 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	DWG. NO.	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10	SGP-1350	
				CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION  
10

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



# BREAKER AREA



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	E 128 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION  
10

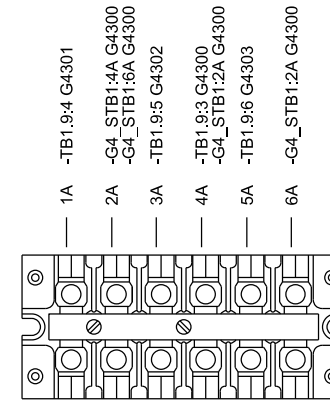
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

**BREAKER AREA**

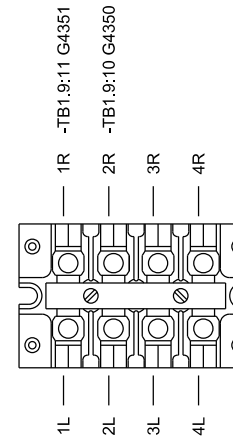
52G4

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A2	⊗	-TB1.9:16 G4102
A3	⊗	
A4	⊗	
A5	⊗	
A6	⊗	
A7	⊗	
A8	⊗	
A9	⊗	
A10	⊗	
A11	⊗	
A12	⊗	
A13	⊗	
A14	⊗	-TB1.9:18 G4128
A15	⊗	-52G4:B11 25
B1	⊗	
B2	⊗	
B3	⊗	
B4	⊗	
B5	⊗	
B6	⊗	
B7	⊗	
B8	⊗	
B9	⊗	
B10	⊗	-TB1.9:19 G4129
B11	⊗	-52G4:A15 25
B12	⊗	-52G4:B13 25
B13	⊗	-TB1.9:22 G4138
B14	⊗	-52G4:B11 25
B15	⊗	-52G4:B14 25
B16	⊗	-52G4:B13 25
B17	⊗	-TB1.9:20 25
B18	⊗	-TB1.9:23 G4133
B19	⊗	-52G4:B22 G4133
B20	⊗	
B21	⊗	
B22	⊗	
B23	⊗	
B24	⊗	
B25	⊗	
B26	⊗	
B27	⊗	
B28	⊗	
B29	⊗	
B30	⊗	
C1	⊗	
C2	⊗	
C3	⊗	
C4	⊗	
C5	⊗	
C6	⊗	
A16		
A17		
A18		
A19		
A20		
A21		
A22		
A23		
A24		
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A26		
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A29		
A30		
B16		
B17		
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B23		-TB5.1:4 G4139
B24		-52G4:C2 G4630
B25		-52G4:A1 G4630
B26		-TB1.9:15 G4101
B27		-52G4:C4 G4128
B28		-52G4:A27 G4128
B29		-52G4:C5 G4131
B30		
C7		
C8		
C9		
C10		
C11		
C12		

G4\_STB1



G4\_STB2



CAE GENERATED DRAWING			PROJECT NO.: SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	PANAMA CITY BEACH AWT EXP.
A	1-27-10	FOR APPROVAL [89286]	PJL	ES-90645 SWGR
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS DATE
C	7-21-10	AS BUILT [90178]	RTR	DRAWN RTR 1-5-10
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED RMB 1-5-10
			APPROVED RMB 1-5-10	

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TITLE: **WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: **E 129** OF 179

PLOTTED: \_\_\_\_\_ DWG. NO.: **SGP-1350** | **D**

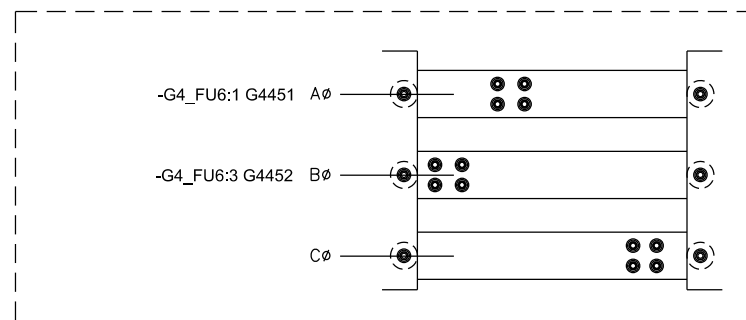
SECTION/FUNCTION  
10

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# REAR BUS AREA

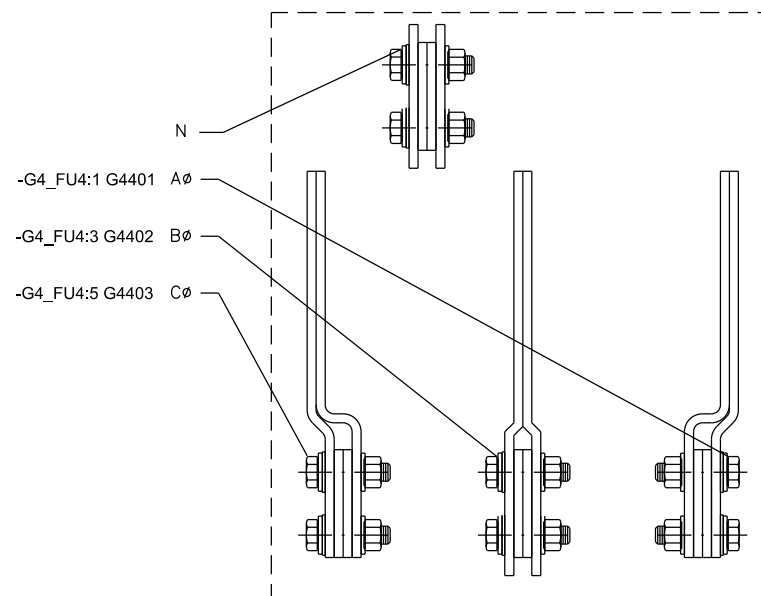
## X\_BUS

(AS SHOWN FROM REAR)



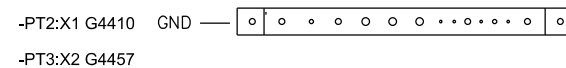
## GEN4\_BUS

(AS SHOWN FROM REAR)



## GND\_BUS

(AS SHOWN FROM REAR)

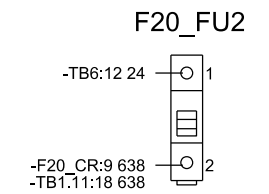
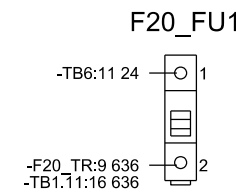
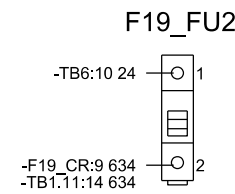
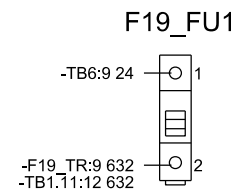
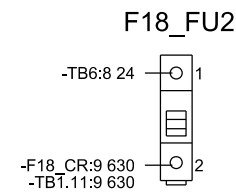
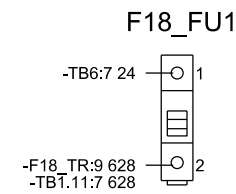
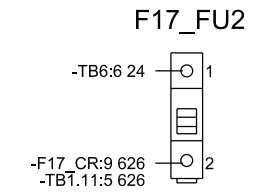
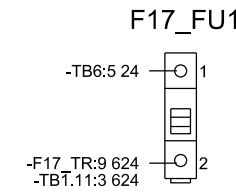
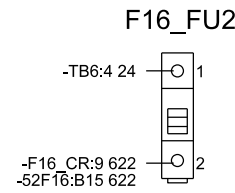
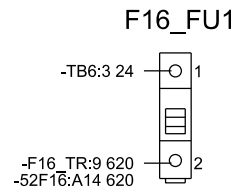
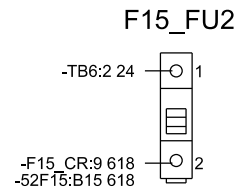
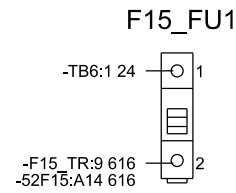
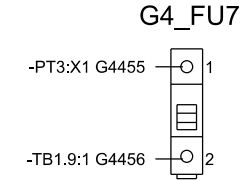
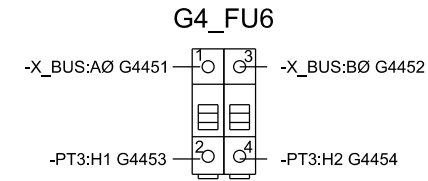
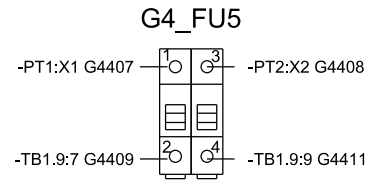
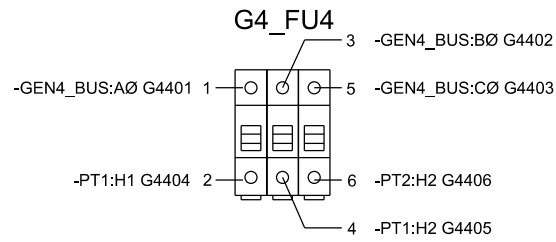
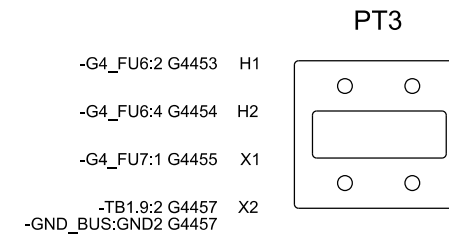
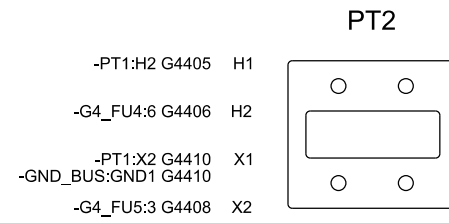
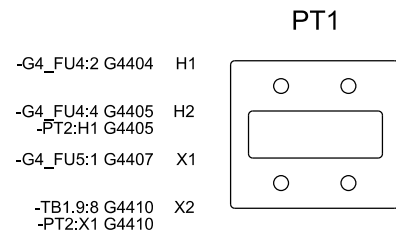


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL				SHEET 130 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE		
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10		
				CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION 10

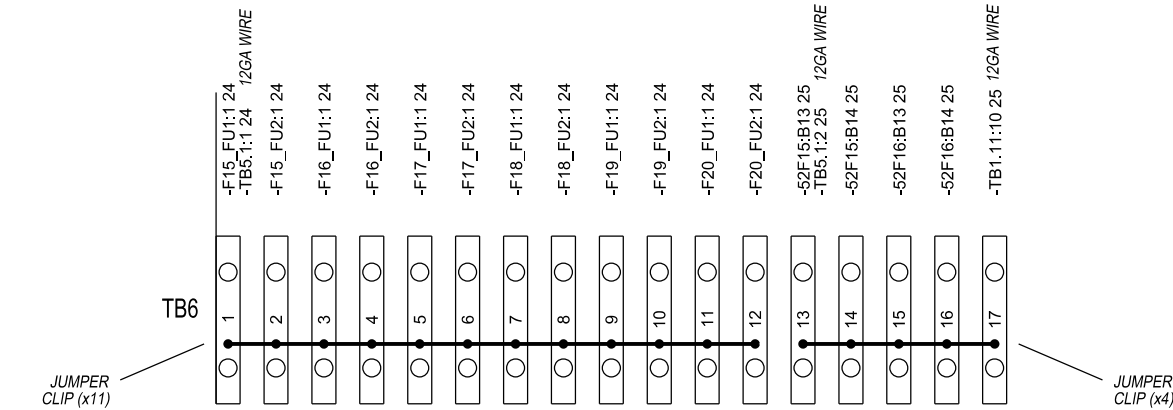
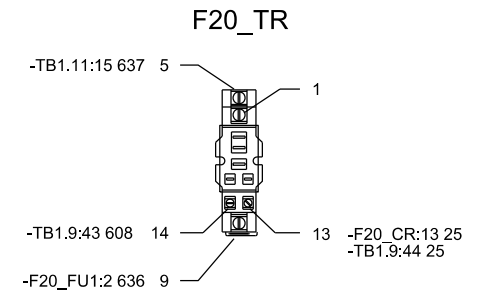
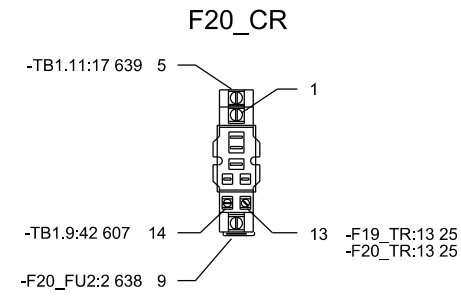
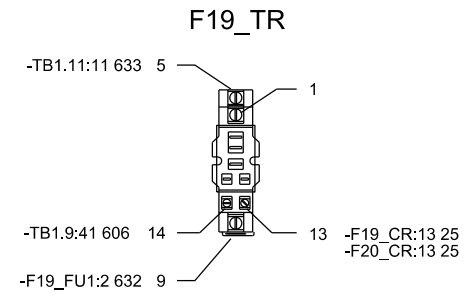
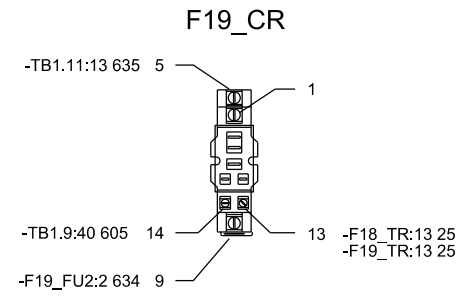
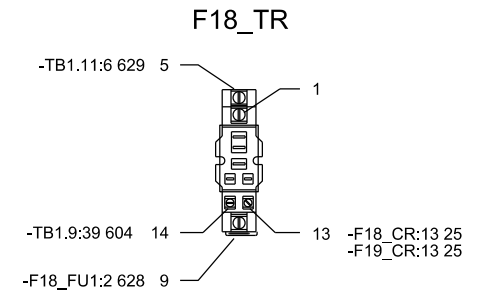
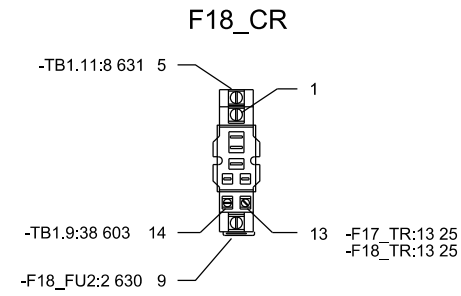
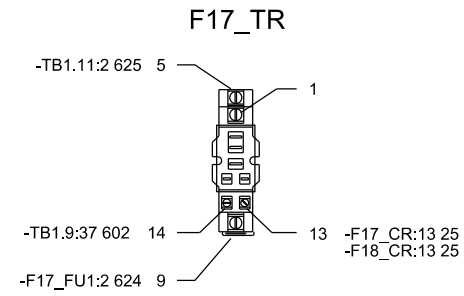
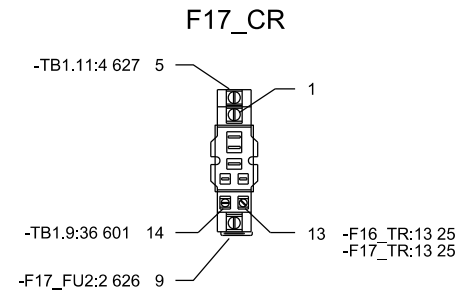
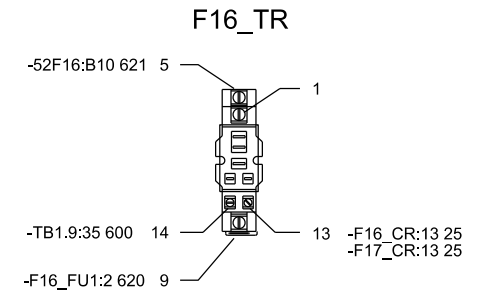
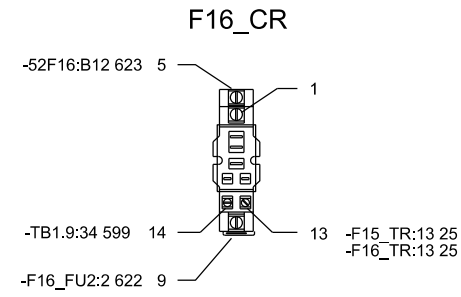
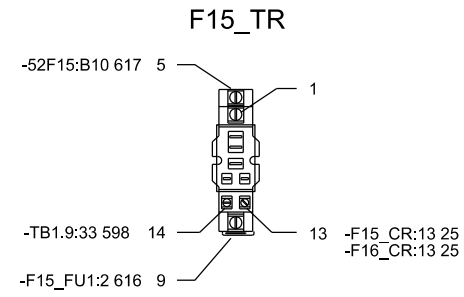
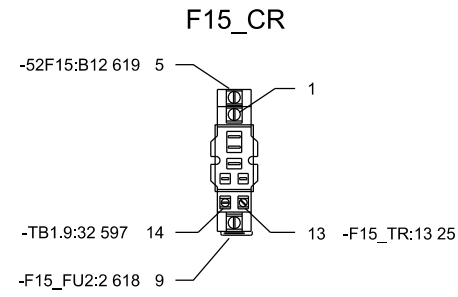
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED SGP-1350 | D

# BACK PANEL



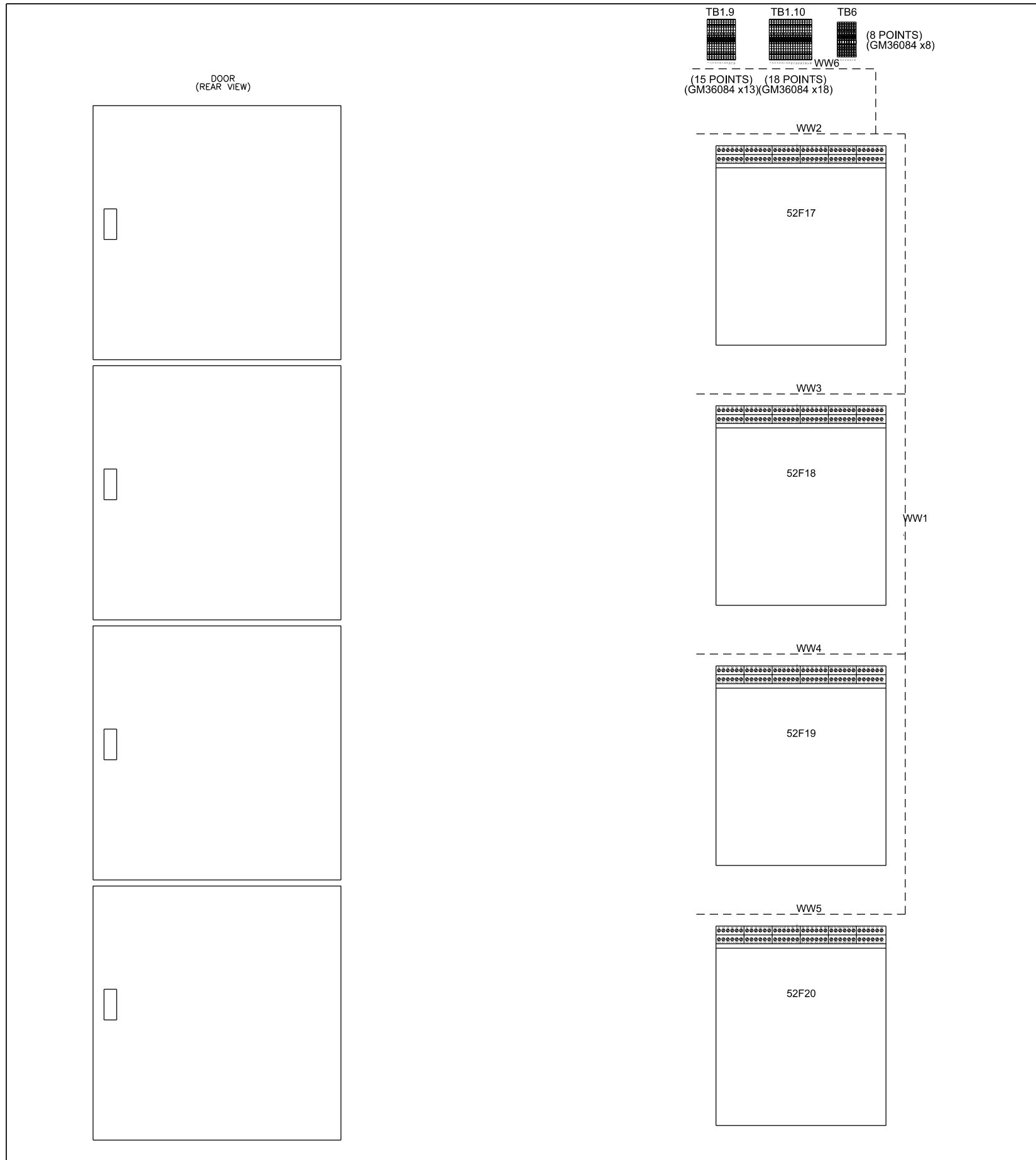
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.          THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES-90645	SWGR	SCALE	CAD NO.	SHEET 131 OF 179	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	DRAWN RTR 1-5-10			
B	5-14-10	FOR MANUFACTURING [89803]	RTR	CHECKED	RMB	1-5-10			
C	7-21-10	AS BUILT [90178]	RTR	APPROVED	RMB	1-5-10			
SECTION/FUNCTION 10				<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>		DWG. NO. SGP-1350   D			

# BACK PANEL



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: WIRING DIAG. SECTION 10 (FEEDERS 15&16, GEN 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET	E 132 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	
SECTION/FUNCTION 10				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			
				DWG. NO. SGP-1350		D	

**KOHLER CO.**  
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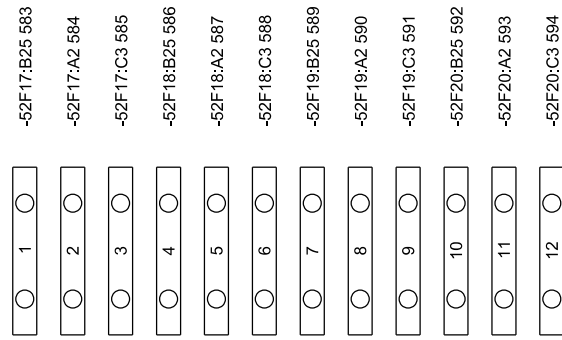
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	PANEL LAYOUT	
A	1-27-10	FOR APPROVAL [89286]	PJL			SECTION 11 (FEEDERS 17-20)	
B	5-14-10	FOR MANUFACTURING [89803]	RTR			SCALE	CAD NO.
C	7-21-10	AS BUILT [90170]	RTR			1-5-10	SHEET 133 OF 179
				CHECKED	RMB	1-5-10	
				APPROVED	RMB	1-5-10	

SECTION/FUNCTION  
11

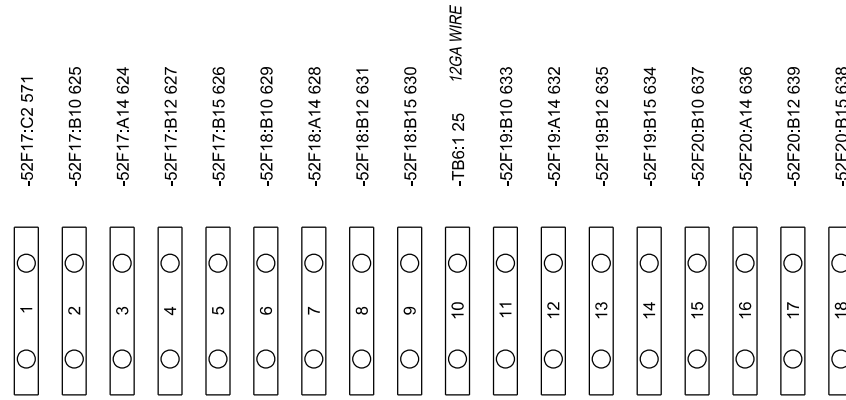
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED SGP-1350 D

UPPER WIRE CHANNEL

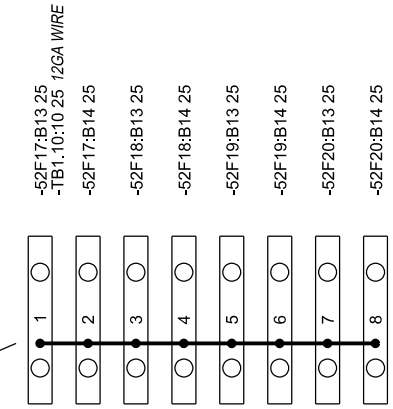
TB1.9



TB1.10



TB6  
JUMPER CLIP (x7)

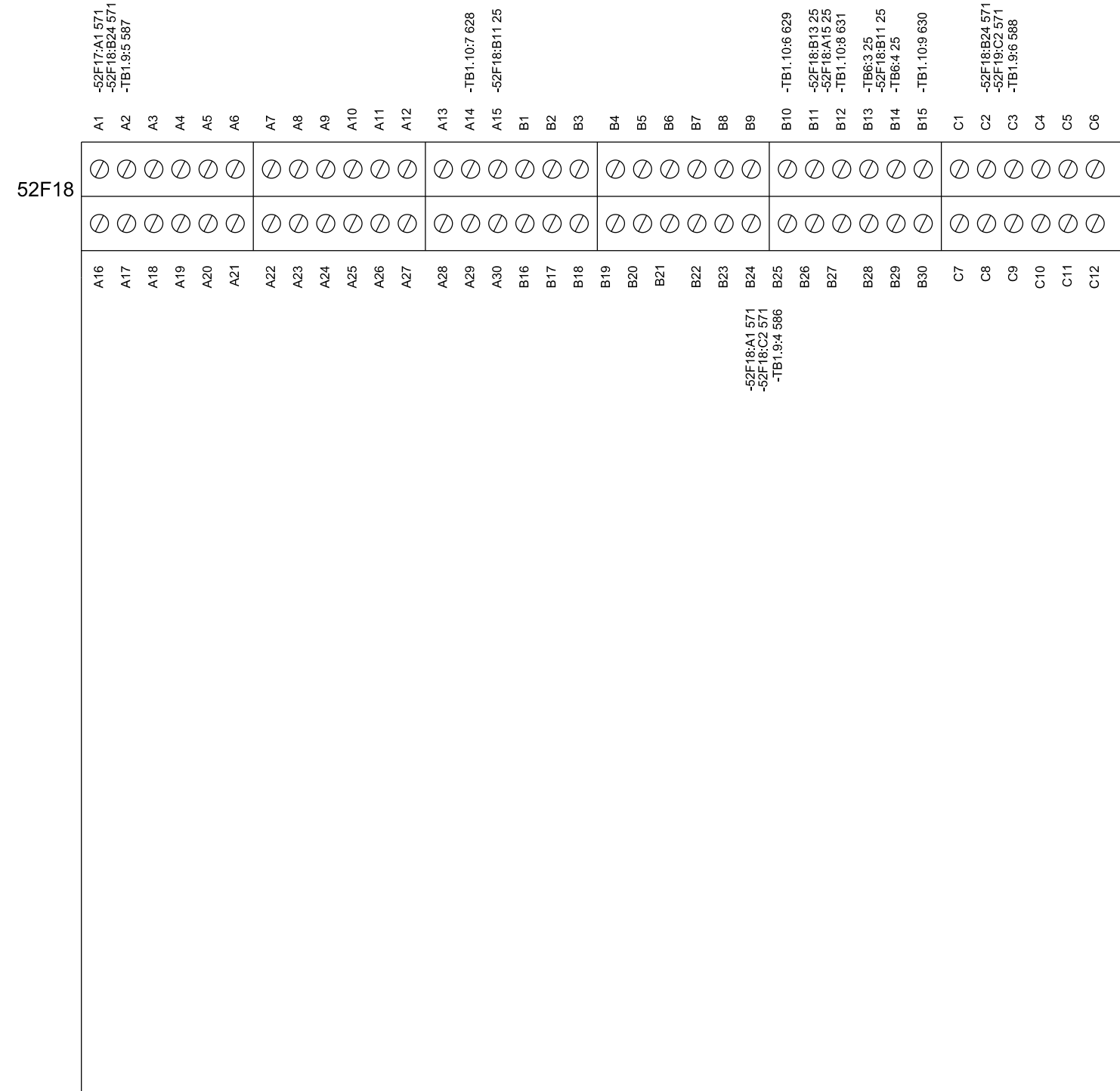
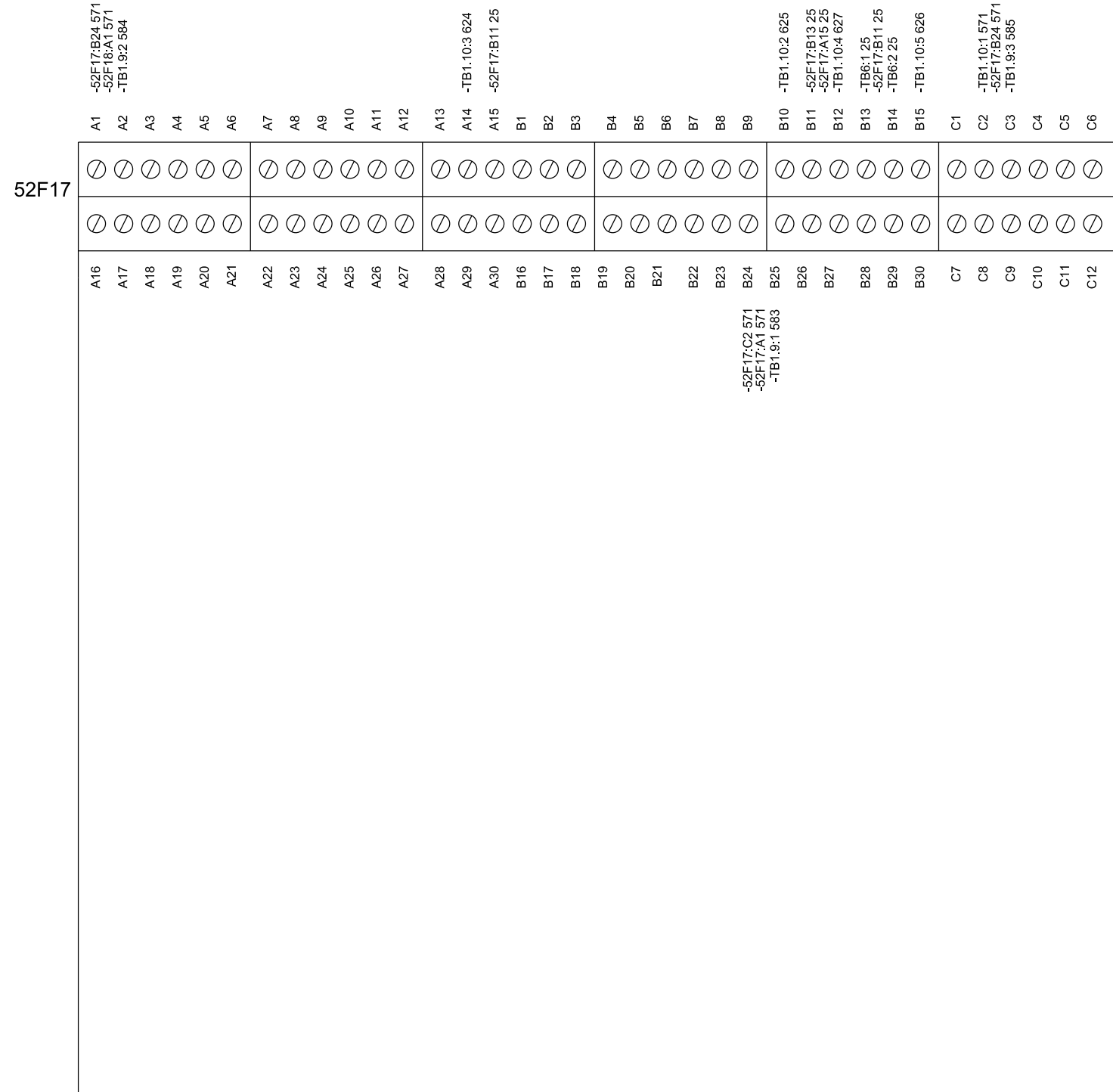


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.                  THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND                  MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.                  ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		SCALE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAGRAM		CAD NO.	
A	1-27-10	FOR APPROVAL [89286]	PJL			SECTION 11 (FEEDERS 17-20)		SHEET E 134 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE			DWG. NO.	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	1-5-10			PRINTED	
				CHECKED	RMB			SGP-1350	
				APPROVED	RMB			D	

SECTION/FUNCTION  
11

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

BREAKER AREA



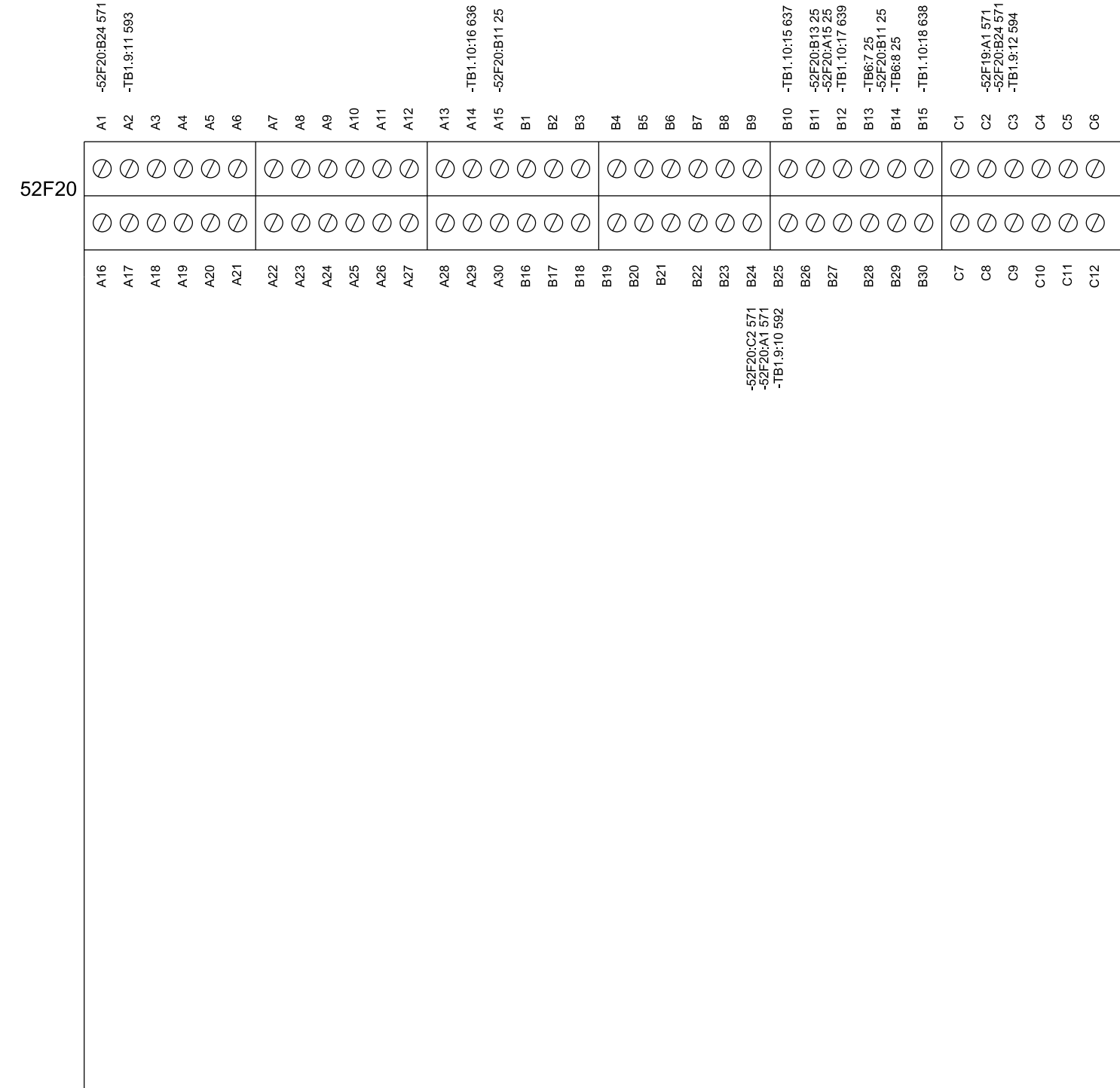
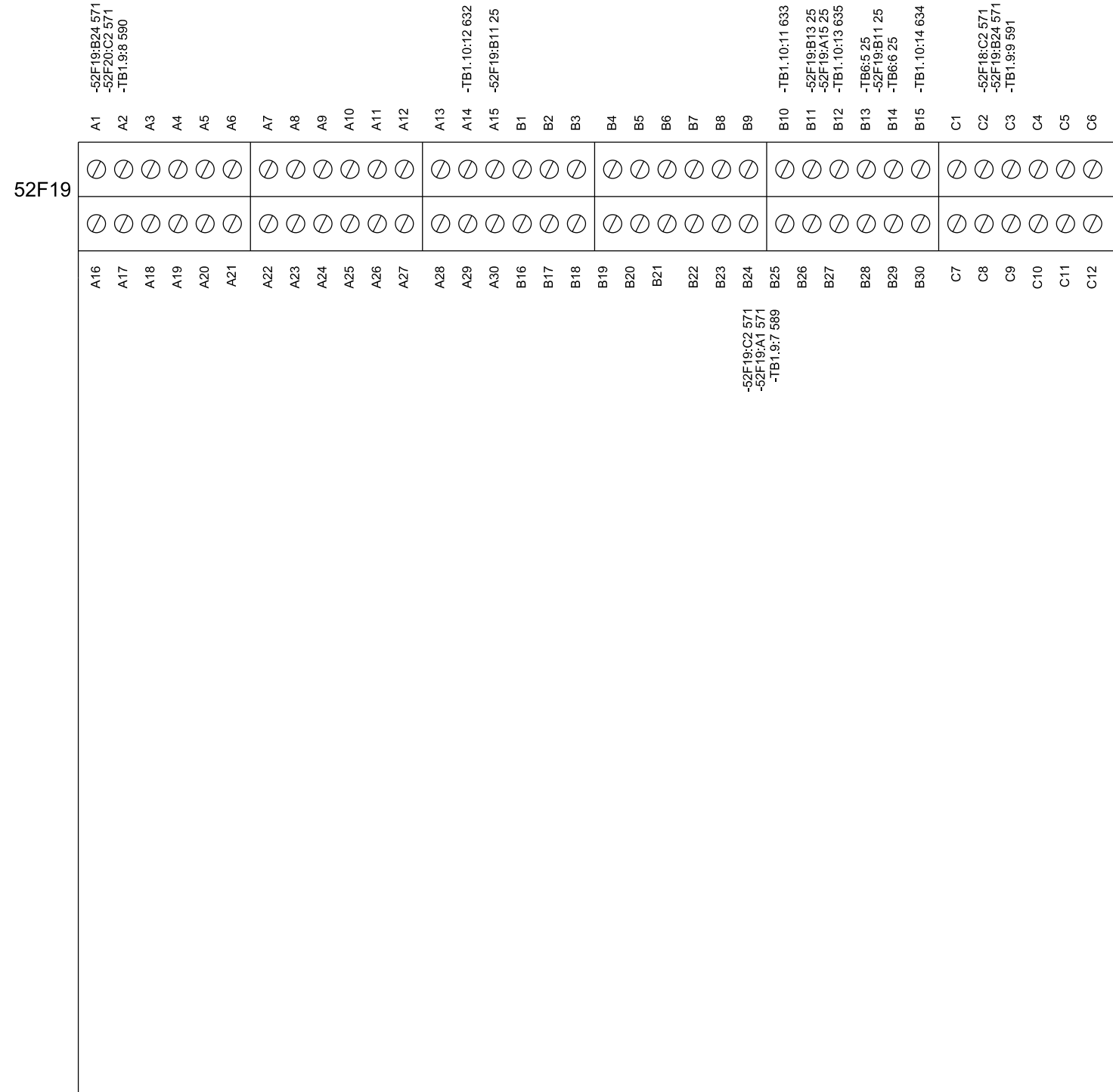
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b> POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM: SWGR	TITLE: WIRING DIAGRAM SECTION 11 (FEEDERS 17-20)	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN: RTR	1-5-10	SHEET: 135 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED: RMB	1-5-10	DWG. NO. SGP-1350	
				APPROVED: RMB	1-5-10	PRINTED: SGP-1350 D	

SECTION/FUNCTION  
11

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



# BREAKER AREA

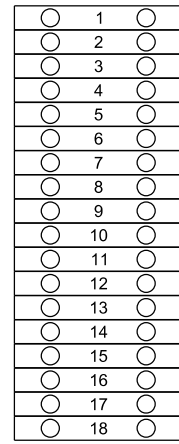


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM	SWGR	TITLE: WIRING DIAGRAM
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	1-5-10	SECTION 11 (FEEDERS 17-20)
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SCALE
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	CAD NO.
				APPROVED	RMB	1-5-10	DWG. NO. SGP-1350
SECTION/FUNCTION 11				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			
				SHEET 136 OF 179		D	

**SECTION 1 (FEEDERS)**

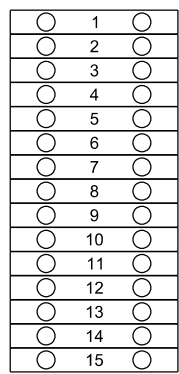
**-TB1.2**

DESTINATION	WIRE #
+2-TB1.1:1	525
+2-TB1.1:2	501
+2-TB1.1:3	500
+2-TB1.1:4	503
+2-TB1.1:5	502
+2-TB1.1:6	505
+2-TB1.1:7	504
+2-TB1.1:8	507
+2-TB1.1:9	506
+2-TB1.1:10	25
+2-TB1.1:11	509
+2-TB1.1:12	508
+2-TB1.1:13	511
+2-TB1.1:14	510
+2-TB1.1:15	513
+2-TB1.1:16	512
+2-TB1.1:17	515
+2-TB1.1:18	514



**-TB1.3**

DESTINATION	WIRE #
+3-TB1.1:1	525
+3-TB1.1:2	531
+3-TB1.1:3	532
+3-TB1.1:4	533
+3-TB1.1:5	534
+3-TB1.1:6	535
+3-TB1.1:7	536
+3-TB1.1:8	537
+3-TB1.1:9	538
+3-TB1.1:10	539
+3-TB1.1:11	540
+3-TB1.1:12	541
+3-TB1.1:13	542
+3-TB1.1:14	688
+3-TB1.1:15	689

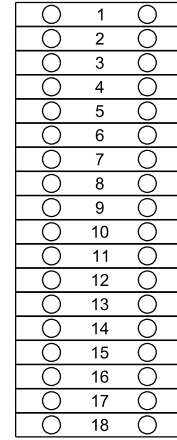


12GA WIRE

**SECTION 2 (FEEDERS)**

**-TB1.1**

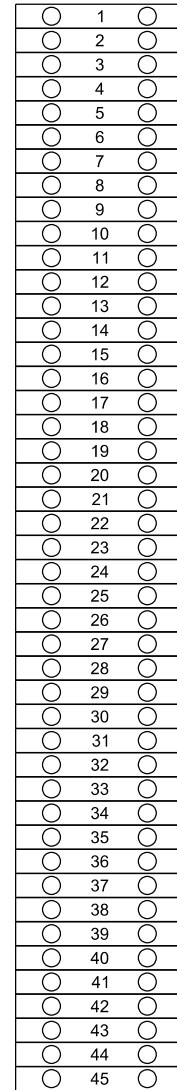
DESTINATION	WIRE #
+1-TB1.2:1	525
+1-TB1.2:2	501
+1-TB1.2:3	500
+1-TB1.2:4	503
+1-TB1.2:5	502
+1-TB1.2:6	505
+1-TB1.2:7	504
+1-TB1.2:8	507
+1-TB1.2:9	506
+1-TB1.2:10	25
+1-TB1.2:11	509
+1-TB1.2:12	508
+1-TB1.2:13	511
+1-TB1.2:14	510
+1-TB1.2:15	513
+1-TB1.2:16	512
+1-TB1.2:17	515
+1-TB1.2:18	514



12GA WIRE

**-TB1.3**

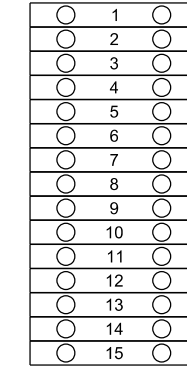
DESTINATION	WIRE #
+3-TB1.2:1	G1456
+3-TB1.2:2	G1457
+3-TB1.2:3	G1300
+3-TB1.2:4	G1301
+3-TB1.2:5	G1302
+3-TB1.2:6	G1303
+3-TB1.2:7	G1409
+3-TB1.2:8	G1410
+3-TB1.2:9	G1411
+3-TB1.2:10	G1GND
+3-TB1.2:11	G1124
+3-TB1.2:12	G1630
+3-TB1.2:13	G1101
+3-TB1.2:14	G1102
+3-TB1.2:15	G1103
+3-TB1.2:16	G1128
+3-TB1.2:17	G1129
+3-TB1.2:18	25
+3-TB1.2:19	G1128
+3-TB1.2:20	G1138
+3-TB1.2:21	G1133
+3-TB1.2:22	G1131
+3-TB1.2:23	G1350
+3-TB1.2:24	G1351
+3-TB1.2:25	543
+3-TB1.2:26	544
+3-TB1.2:27	545
+3-TB1.2:28	546
+3-TB1.2:29	547
+3-TB1.2:30	548
+3-TB1.2:31	551
+3-TB1.2:32	552
+3-TB1.2:33	553
+3-TB1.2:34	554
+3-TB1.2:35	555
+3-TB1.2:36	556
+3-TB1.2:37	557
+3-TB1.2:38	558
+3-TB1.2:39	559
+3-TB1.2:40	560
+3-TB1.2:41	561
+3-TB1.2:42	562
+3-TB1.2:43	25
+3-TB1.2:44	668
+3-TB1.2:45	672



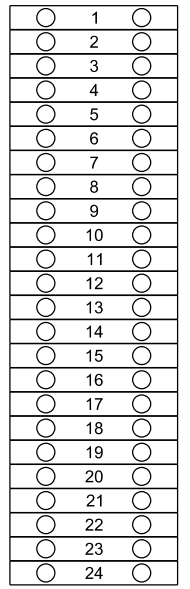
**SECTION 3 (UTILITY 1/GEN 1)**

**-TB1.1**

DESTINATION	WIRE #
+1-TB1.3:1	525
+1-TB1.3:2	531
+1-TB1.3:3	532
+1-TB1.3:4	533
+1-TB1.3:5	534
+1-TB1.3:6	535
+1-TB1.3:7	536
+1-TB1.3:8	537
+1-TB1.3:9	538
+1-TB1.3:10	539
+1-TB1.3:11	540
+1-TB1.3:12	541
+1-TB1.3:13	542
+1-TB1.3:14	688
+1-TB1.3:15	689

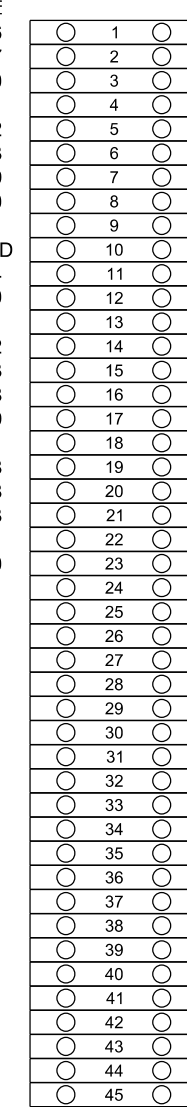


DESTINATION	WIRE #
+4-TB1.3:1	G1456
+4-TB1.3:2	G1457
+4-TB1.3:3	G2300
+4-TB1.3:4	G2304
+4-TB1.3:5	G2305
+4-TB1.3:6	G2306
+4-TB1.3:7	G2409
+4-TB1.3:8	G2410
+4-TB1.3:9	G2411
+4-TB1.3:10	24
+4-TB1.3:11	25
+4-TB1.3:12	G2630
+4-TB1.3:13	G2104
+4-TB1.3:14	G2105
+4-TB1.3:15	G2106
+4-TB1.3:16	G2128
+4-TB1.3:17	G2129
+4-TB1.3:18	G2131
+4-TB1.3:19	25
+4-TB1.3:20	G2138
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+4-TB1.3:22	692
+4-TB1.3:23	673
+4-TB1.3:24	G2134

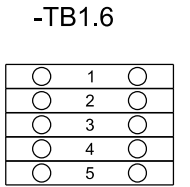


**-TB1.2**

DESTINATION	WIRE #
+2-TB1.3:1	G1456
+2-TB1.3:2	G1457
+2-TB1.3:3	G1300
+2-TB1.3:4	G1301
+2-TB1.3:5	G1302
+2-TB1.3:6	G1303
+2-TB1.3:7	G1409
+2-TB1.3:8	G1410
+2-TB1.3:9	G1411
+2-TB1.3:10	G1GND
+2-TB1.3:11	G1124
+2-TB1.3:12	G1630
+2-TB1.3:13	G1101
+2-TB1.3:14	G1102
+2-TB1.3:15	G1103
+2-TB1.3:16	G1128
+2-TB1.3:17	G1129
+2-TB1.3:18	25
+2-TB1.3:19	G1128
+2-TB1.3:20	G1138
+2-TB1.3:21	G1133
+2-TB1.3:22	G1131
+2-TB1.3:23	G1350
+2-TB1.3:24	G1351
+2-TB1.3:25	543
+2-TB1.3:26	544
+2-TB1.3:27	545
+2-TB1.3:28	546
+2-TB1.3:29	547
+2-TB1.3:30	548
+2-TB1.3:31	551
+2-TB1.3:32	552
+2-TB1.3:33	553
+2-TB1.3:34	554
+2-TB1.3:35	555
+2-TB1.3:36	556
+2-TB1.3:37	557
+2-TB1.3:38	558
+2-TB1.3:39	559
+2-TB1.3:40	560
+2-TB1.3:41	561
+2-TB1.3:42	562
+2-TB1.3:43	25
+2-TB1.3:44	668
+2-TB1.3:45	672



DESTINATION	WIRE #
+6-TB1.3:1	640
+6-TB1.3:2	645
+6-TB1.3:3	663
+6-TB1.3:4	666
+6-TB1.3:5	663



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	<p>POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</p>
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
				APPROVED RMB	1-5-10
SECTION/FUNCTION CC				SCALE	CAD NO.
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SHEET E 137 OF 179	DWG. NO. SGP-1350

**SECTION 4 (GEN 2)**

		-TB1.3	
<u>DESTINATION</u>	<u>WIRE #</u>		
+3-TB1.4:1	G1456	○ 1 ○	
+3-TB1.4:2	G1457	○ 2 ○	
+3-TB1.4:3	G2300	○ 3 ○	
+3-TB1.4:4	G2304	○ 4 ○	
+3-TB1.4:5	G2305	○ 5 ○	
+3-TB1.4:6	G2306	○ 6 ○	
+3-TB1.4:7	G2409	○ 7 ○	
+3-TB1.4:8	G2410	○ 8 ○	
+3-TB1.4:9	G2411	○ 9 ○	
+3-TB1.4:10	24	○ 10 ○	
+3-TB1.4:11	25	○ 11 ○	
+3-TB1.4:12	G2630	○ 12 ○	
+3-TB1.4:13	G2104	○ 13 ○	
+3-TB1.4:14	G2105	○ 14 ○	
+3-TB1.4:15	G2106	○ 15 ○	
+3-TB1.4:16	G2128	○ 16 ○	
+3-TB1.4:17	G2129	○ 17 ○	
+3-TB1.4:18	G2131	○ 18 ○	
+3-TB1.4:19	25	○ 19 ○	
+3-TB1.4:20	G2138	○ 20 ○	
+3-TB1.4:21	569	○ 21 ○	
+3-TB1.4:22	692	○ 22 ○	
+3-TB1.4:23	673	○ 23 ○	
+3-TB1.4:24	G2134	○ 24 ○	

12GA WIRE  
12GA WIRE

		-TB1.6	
<u>DESTINATION</u>	<u>WIRE #</u>		
+6-TB1.4:1	614	○ 1 ○	
+6-TB1.4:2	643	○ 2 ○	
+6-TB1.4:3	674	○ 3 ○	

**SECTION 6 (TIE)**

		-TB1.3	
<u>DESTINATION</u>	<u>WIRE #</u>		
+3-TB1.6:1	640	○ 1 ○	
+3-TB1.6:2	645	○ 2 ○	
+3-TB1.6:3	663	○ 3 ○	
+3-TB1.6:4	666	○ 4 ○	
+3-TB1.6:5	663	○ 5 ○	

		-TB1.4	
<u>DESTINATION</u>	<u>WIRE #</u>		
+4-TB1.6:1	614	○ 1 ○	
+4-TB1.6:2	643	○ 2 ○	
+4-TB1.6:3	674	○ 3 ○	

		-TB1.8	
<u>DESTINATION</u>	<u>WIRE #</u>		
+8-TB1.6:1	614	○ 1 ○	
+8-TB1.6:2	643	○ 2 ○	

		-TB1.9	
<u>DESTINATION</u>	<u>WIRE #</u>		
+9-TB1.6:1	640	○ 1 ○	
+9-TB1.6:2	645	○ 2 ○	
+9-TB1.6:3	663	○ 3 ○	
+9-TB1.6:4	666	○ 4 ○	
+9-TB1.6:5	663	○ 5 ○	
+9-TB1.6:6	674	○ 6 ○	

**SECTION 8 (GEN 3)**

		-TB1.6	
<u>DESTINATION</u>	<u>WIRE #</u>		
+6-TB1.8:1	614	○ 1 ○	
+6-TB1.8:2	643	○ 2 ○	

		-TB1.9	
<u>DESTINATION</u>	<u>WIRE #</u>		
+9-TB1.8:1	G3300	○ 1 ○	
+9-TB1.8:2	G3304	○ 2 ○	
+9-TB1.8:3	G3305	○ 3 ○	
+9-TB1.8:4	G3306	○ 4 ○	
+9-TB1.8:5	G3409	○ 5 ○	
+9-TB1.8:6	G3410	○ 6 ○	
+9-TB1.8:7	G3411	○ 7 ○	
+9-TB1.8:8	G4456	○ 8 ○	
+9-TB1.8:9	G4457	○ 9 ○	
+9-TB1.8:10	G3630	○ 10 ○	
+9-TB1.8:11	G3104	○ 11 ○	
+9-TB1.8:12	G3105	○ 12 ○	
+9-TB1.8:13	G3106	○ 13 ○	
+9-TB1.8:14	G3128	○ 14 ○	
+9-TB1.8:15	G3129	○ 15 ○	
+9-TB1.8:16	G3138	○ 16 ○	
+9-TB1.8:17	G3131	○ 17 ○	
+9-TB1.8:18	25	○ 18 ○	
+9-TB1.8:19	24	○ 19 ○	
+9-TB1.8:20	25	○ 20 ○	
+9-TB1.8:21	615	○ 21 ○	
+9-TB1.8:22	642	○ 22 ○	
+9-TB1.8:23	670	○ 23 ○	
+9-TB1.8:24	671	○ 24 ○	
+9-TB1.8:25	G3134	○ 25 ○	

12GA WIRE  
12GA WIRE

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		<b>KOHLER CO.</b> <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A.                  THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND                  MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.                  ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</small>	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		SCALE	CAD NO.
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90645	SWGR	WIRING DIAGRAM CUBICLE CONNECT (SWGR)			
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE				
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10			
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10			
				APPROVED	RMB	1-5-10			
SECTION/FUNCTION CC			PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			DWC NO. SGP-1350		SHEET 138 OF 179	

SECTION 9 (UTILITY 2/GEN 4)

SECTION 10 (FEEDERS)

SECTION 11 (FEEDERS)

**-TB1.6**

DESTINATION	WIRE #
+6-TB1.9:1	640
+6-TB1.9:2	645
+6-TB1.9:3	663
+6-TB1.9:4	666
+6-TB1.9:5	663
+6-TB1.9:6	674

**-TB1.10**

DESTINATION	WIRE #
+10-TB1.9:1	G4456
+10-TB1.9:2	G4457
+10-TB1.9:3	G4300
+10-TB1.9:4	G4301
+10-TB1.9:5	G4302
+10-TB1.9:6	G4303
+10-TB1.9:7	G4409
+10-TB1.9:8	G4410
+10-TB1.9:9	G4411
+10-TB1.9:10	G4350
+10-TB1.9:11	G4351
+10-TB1.9:12	G4GND
+10-TB1.9:13	G4124
+10-TB1.9:14	G4630
+10-TB1.9:15	G4101
+10-TB1.9:16	G4102
+10-TB1.9:17	G4103
+10-TB1.9:18	G4128
+10-TB1.9:19	G4129
+10-TB1.9:20	25
+10-TB1.9:21	G4128
+10-TB1.9:22	G4138
+10-TB1.9:23	G4133
+10-TB1.9:24	G4131
+10-TB1.9:25	571
+10-TB1.9:26	577
+10-TB1.9:27	578
+10-TB1.9:28	579
+10-TB1.9:29	580
+10-TB1.9:30	581
+10-TB1.9:31	582
+10-TB1.9:32	597
+10-TB1.9:33	598
+10-TB1.9:34	599
+10-TB1.9:35	600
+10-TB1.9:36	601
+10-TB1.9:37	602
+10-TB1.9:38	603
+10-TB1.9:39	604
+10-TB1.9:40	605
+10-TB1.9:41	606
+10-TB1.9:42	607
+10-TB1.9:43	608
+10-TB1.9:44	25

**-TB1.8**

DESTINATION	WIRE #
+8-TB1.9:1	G3300
+8-TB1.9:2	G3304
+8-TB1.9:3	G3305
+8-TB1.9:4	G3306
+8-TB1.9:5	G3409
+8-TB1.9:6	G3410
+8-TB1.9:7	G3411
+8-TB1.9:8	G4456
+8-TB1.9:9	G4457
+8-TB1.9:10	G3630
+8-TB1.9:11	G3104
+8-TB1.9:12	G3105
+8-TB1.9:13	G3106
+8-TB1.9:14	G3128
+8-TB1.9:15	G3129
+8-TB1.9:16	G3138
+8-TB1.9:17	G3131
+8-TB1.9:18	25
+8-TB1.9:19	24
+8-TB1.9:20	25
+8-TB1.9:21	615
+8-TB1.9:22	642
+8-TB1.9:23	670
+8-TB1.9:24	671
+8-TB1.9:25	G3134

12GA WIRE  
12GA WIRE

**-TB1.11**

DESTINATION	WIRE #
+11-TB1.9:1	583
+11-TB1.9:2	584
+11-TB1.9:3	585
+11-TB1.9:4	586
+11-TB1.9:5	587
+11-TB1.9:6	588
+11-TB1.9:7	589
+11-TB1.9:8	590
+11-TB1.9:9	591
+11-TB1.9:10	592
+11-TB1.9:11	593
+11-TB1.9:12	594

**-TB1.9**

DESTINATION	WIRE #
+9-TB1.10:1	G4456
+9-TB1.10:2	G4457
+9-TB1.10:3	G4300
+9-TB1.10:4	G4301
+9-TB1.10:5	G4302
+9-TB1.10:6	G4303
+9-TB1.10:7	G4409
+9-TB1.10:8	G4410
+9-TB1.10:9	G4411
+9-TB1.10:10	G4350
+9-TB1.10:11	G4351
+9-TB1.10:12	G4GND
+9-TB1.10:13	G4124
+9-TB1.10:14	G4630
+9-TB1.10:15	G4101
+9-TB1.10:16	G4102
+9-TB1.10:17	G4103
+9-TB1.10:18	G4128
+9-TB1.10:19	G4129
+9-TB1.10:20	25
+9-TB1.10:21	G4128
+9-TB1.10:22	G4138
+9-TB1.10:23	G4133
+9-TB1.10:24	G4131
+9-TB1.10:25	571
+9-TB1.10:26	577
+9-TB1.10:27	578
+9-TB1.10:28	579
+9-TB1.10:29	580
+9-TB1.10:30	581
+9-TB1.10:31	582
+9-TB1.10:32	597
+9-TB1.10:33	598
+9-TB1.10:34	599
+9-TB1.10:35	600
+9-TB1.10:36	601
+9-TB1.10:37	602
+9-TB1.10:38	603
+9-TB1.10:39	604
+9-TB1.10:40	605
+9-TB1.10:41	606
+9-TB1.10:42	607
+9-TB1.10:43	608
+9-TB1.10:44	25

12GA WIRE

**-TB1.11**

DESTINATION	WIRE #
+11-TB1.10:1	571
+11-TB1.10:2	625
+11-TB1.10:3	624
+11-TB1.10:4	627
+11-TB1.10:5	626
+11-TB1.10:6	629
+11-TB1.10:7	628
+11-TB1.10:8	631
+11-TB1.10:9	630
+11-TB1.10:10	25
+11-TB1.10:11	633
+11-TB1.10:12	632
+11-TB1.10:13	635
+11-TB1.10:14	634
+11-TB1.10:15	637
+11-TB1.10:16	636
+11-TB1.10:17	639
+11-TB1.10:18	638

**-TB1.9**

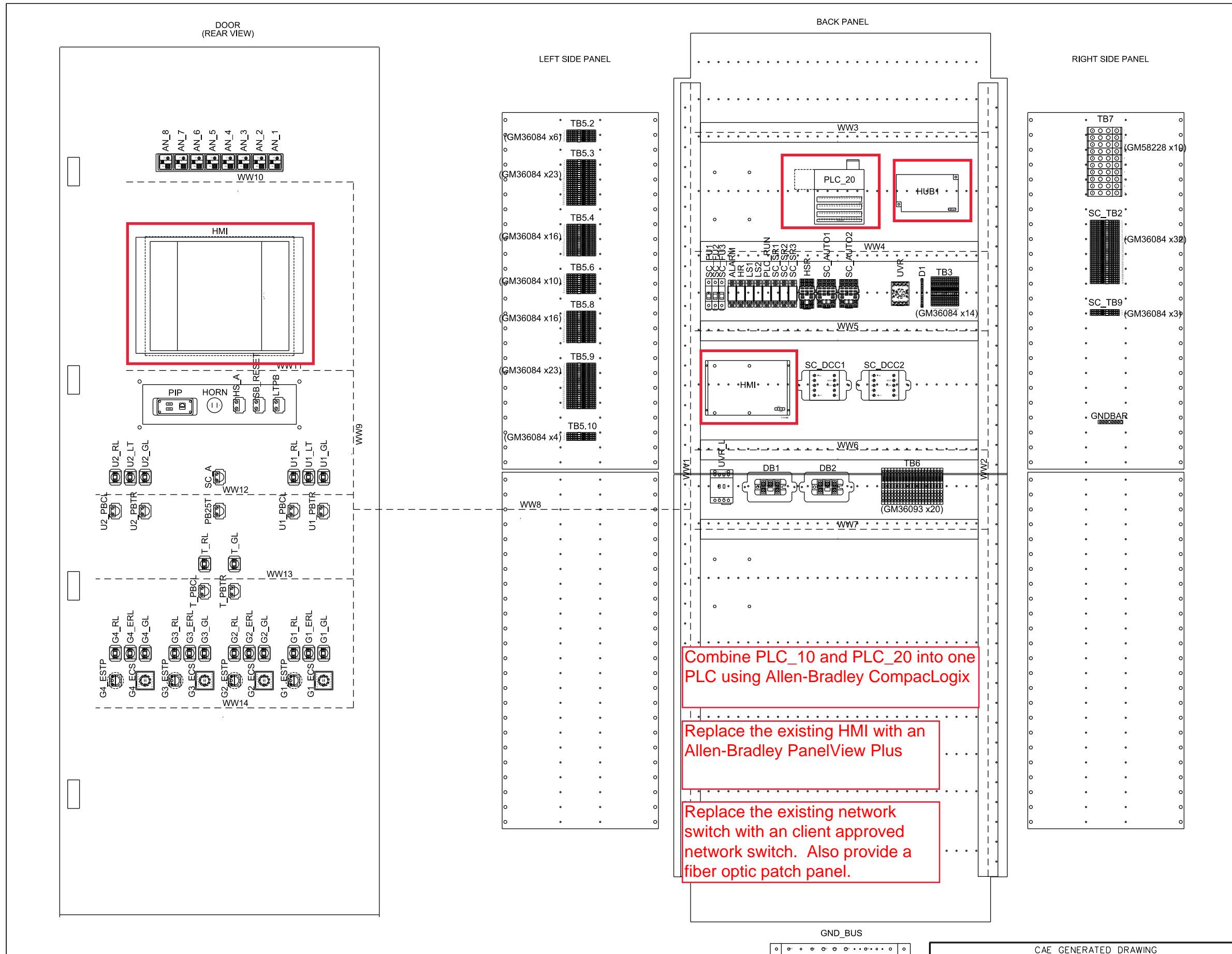
DESTINATION	WIRE #
+9-TB1.11:1	583
+9-TB1.11:2	584
+9-TB1.11:3	585
+9-TB1.11:4	586
+9-TB1.11:5	587
+9-TB1.11:6	588
+9-TB1.11:7	589
+9-TB1.11:8	590
+9-TB1.11:9	591
+9-TB1.11:10	592
+9-TB1.11:11	593
+9-TB1.11:12	594

**-TB1.10**

DESTINATION	WIRE #
+10-TB1.11:1	571
+10-TB1.11:2	625
+10-TB1.11:3	624
+10-TB1.11:4	627
+10-TB1.11:5	626
+10-TB1.11:6	629
+10-TB1.11:7	628
+10-TB1.11:8	631
+10-TB1.11:9	630
+10-TB1.11:10	25
+10-TB1.11:11	633
+10-TB1.11:12	632
+10-TB1.11:13	635
+10-TB1.11:14	634
+10-TB1.11:15	637
+10-TB1.11:16	636
+10-TB1.11:17	639
+10-TB1.11:18	638

12GA WIRE

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	<p>POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</p>
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89286]	RTR	ES NO.: ES-90645	ITEM SWGR
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED RMB	1-5-10
SECTION/FUNCTION CC				APPROVED RMB	1-5-10
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWG. NO. SGP-1350	SHEET 139 OF 179



Combine PLC\_10 and PLC\_20 into one PLC using Allen-Bradley CompacLogix

Replace the existing HMI with an Allen-Bradley PanelView Plus

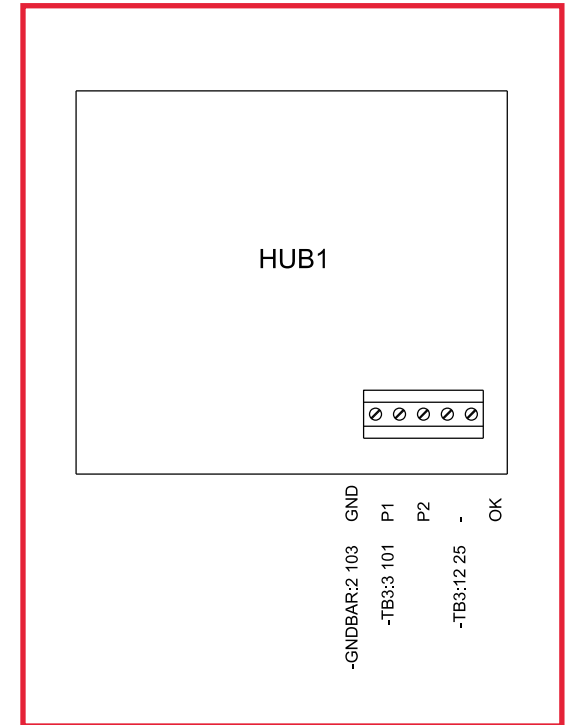
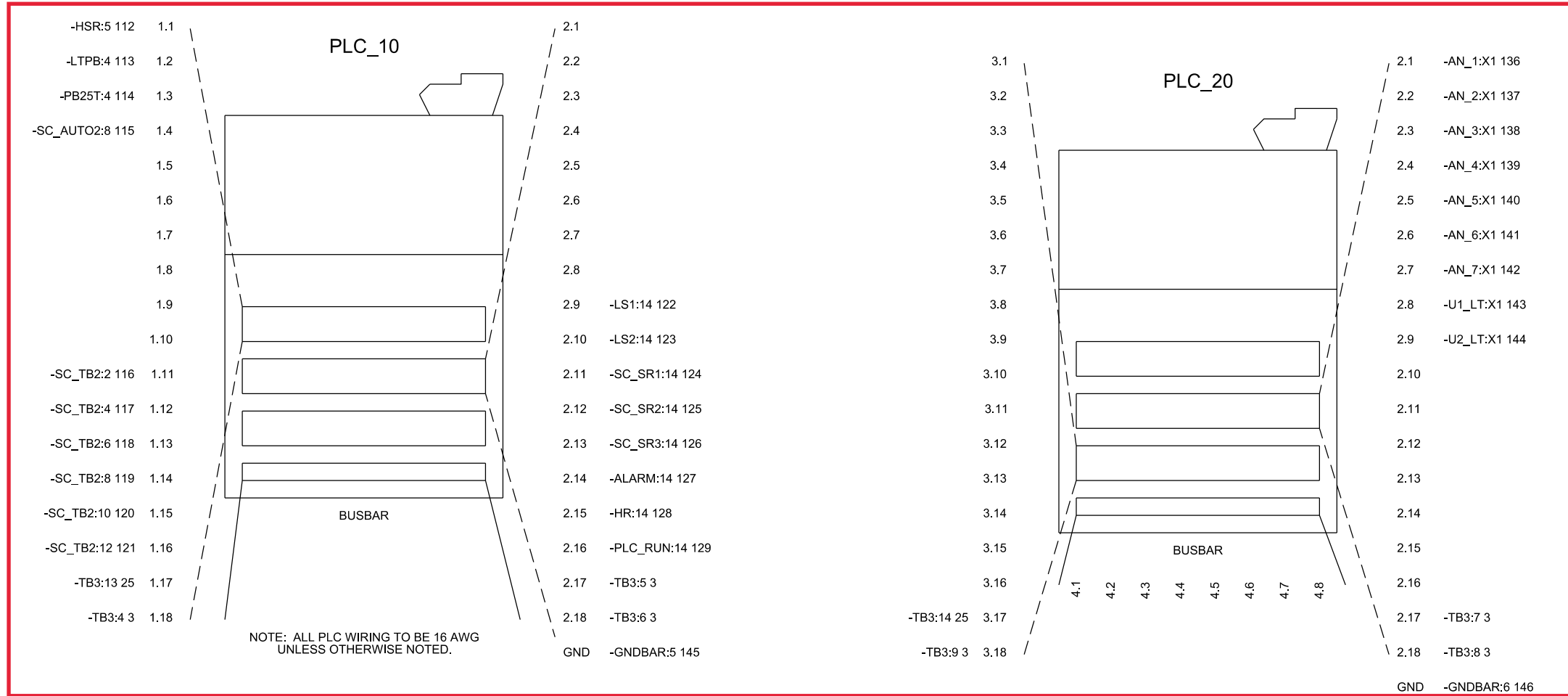
Replace the existing network switch with an client approved network switch. Also provide a fiber optic patch panel.

Device ID	Part Number	Device ID	Part Number
ALARM	X-6137-5	PLC_10	GM22866
ALARM	X-6124-12	PLC_10	GM14130
ALARM	X-6124-13	PLC_10	X-6429-9
D1	GM45918	PLC_10	GM14124
D1	GM45925	PLC_10	GM14132
DB1	337124	PLC_20	GM14131
DB1	GM47021	PLC_20	X-6429-10
DB1	GM47008	PLC_20	GM14124
DB1	X-6216-1	PLC_20	GM14136
DB2	337124	PLC_RUN	X-6137-5
DB2	GM47021	PLC_RUN	X-6124-12
DB2	GM47008	PLC_RUN	X-6124-13
DB2	X-6216-1	SB_RESET	GM13509
G1_ECS	GM75823	SB_RESET	GM13501
G1_ECS	GM75824	SC	GM13502
G1_ERL	X-6127-77	SC_A	GM13509
G1_ERL	X-6127-82	SC_AUTO1	X-6137-63
G1_ESTP	292364	SC_AUTO1	X-6124-14
G1_ESTP	GM22306	SC_AUTO1	X-6124-15
G1_GL	X-6127-78	SC_AUTO2	X-6124-15
G1_GL	X-6127-83	SC_AUTO2	X-6124-14
G1_RL	X-6127-79	SC_AUTO2	X-6137-63
G1_RL	X-6127-84	SC_DCC1	GM46869
G2_ECS	GM75823	SC_DCC1	GM47008
G2_ECS	GM75824	SC_DCC1	GM47021
G2_ERL	X-6127-77	SC_DCC1	X-49-43
G2_ERL	X-6127-82	SC_DCC1	X-22-24
G2_ESTP	292364	SC_DCC2	GM46869
G2_ESTP	GM22306	SC_DCC2	GM47008
G2_GL	X-6127-78	SC_DCC2	GM47021
G2_GL	X-6127-83	SC_DCC2	X-49-43
G2_RL	X-6127-79	SC_DCC2	X-22-24
G2_RL	X-6127-84	SC_FU1	X-6129-16
G3_ECS	GM75823	SC_FU1	X-6135-6
G3_ECS	GM75824	SC_FU2	X-6129-16
G3_ERL	X-6127-77	SC_FU2	X-6135-6
G3_ERL	X-6127-82	SC_FU3	X-6129-16
G3_ESTP	292364	SC_FU3	X-6135-6
G3_ESTP	GM22306	SC_SR1	X-6137-5
G3_GL	X-6127-78	SC_SR1	X-6124-12
G3_GL	X-6127-83	SC_SR1	X-6124-13
G3_RL	X-6127-79	SC_SR2	X-6137-5
G3_RL	X-6127-84	SC_SR2	X-6124-12
G4_ECS	GM75823	SC_SR2	X-6124-13
G4_ECS	GM75824	SC_SR3	X-6137-5
G4_ERL	X-6127-77	SC_SR3	X-6124-12
G4_ERL	X-6127-82	SC_SR3	X-6124-13
G4_ESTP	292364	T_GL	X-6127-78
G4_ESTP	GM22306	T_GL	X-6127-83
G4_GL	X-6127-78	T_PBCL	GM13501
G4_GL	X-6127-83	T_PBCL	GM13508
G4_RL	X-6127-79	T_PBTR	GM13501
G4_RL	X-6127-84	T_PBTR	GM13508
GNDBAR	GM12266	T_RL	X-6127-79
HMI	GM71686	T_RL	X-6127-84
HMI	GM49794	U1_GL	X-6127-78
HMI	GM70628	U1_GL	X-6127-83
HORN	X-6125-5	U1_LT	X-6127-77
HR	X-6137-5	U1_LT	X-6127-82
HR	X-6124-12	U1_PBCL	GM13501
HR	X-6124-13	U1_PBCL	GM13508
HS_A	GM13508	U1_PBTR	GM13501
HS_A	GM13501	U1_PBTR	GM13508
HSR	291309	U1_RL	X-6127-79
HSR	X-6124-4	U1_RL	X-6127-84
HSR	X-6124-5	U2_GL	X-6127-78
HUB1	GM71444	U2_GL	X-6127-83
LS1	X-6137-5	U2_LT	X-6127-77
LS1	X-6124-12	U2_LT	X-6127-82
LS1	X-6124-13	U2_PBCL	GM13501
LS2	X-6137-5	U2_PBCL	GM13508
LS2	X-6124-12	U2_PBTR	GM13501
LS2	X-6124-13	U2_PBTR	GM13508
LTPB	GM13501	U2_RL	X-6127-79
LTPB	GM13508	U2_RL	X-6127-84
PB25T	GM13501	UVR	X-6113-116
PB25T	GM13508	UVR	X-6124-3
PIP	GM51434	UVR_L	GM75825
PIP	X-49-26		
PIP	X-6210-3		

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.				TITLE: PANEL LAYOUT SYSTEM CONTROL	
REV	DATE	REVISION	BY	ES NO.	ITEM
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB
SECTION/FUNCTION 1			SCALE: 1/8"=1'-0"		SHEET: 140 of 179
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWG. NO. SGP-1350	

**KOHLER CO.**  
POWER SYSTEMS, KOHLER, WI 53044 U.S.A.  
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BACKPANEL



Combine PLC\_10 and PLC\_20 into one PLC using Allen-Bradley CompacLogix

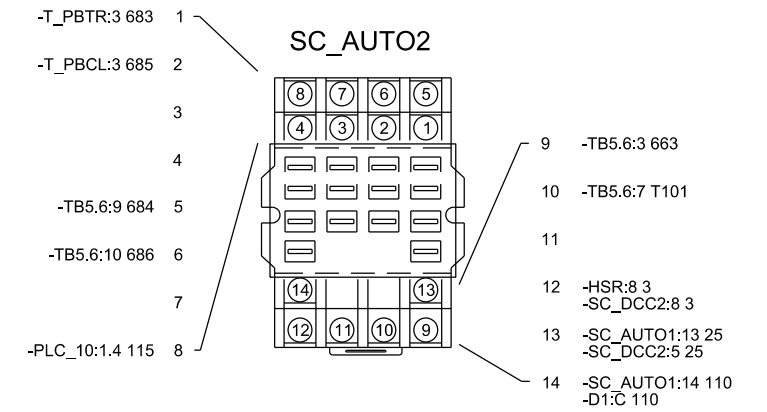
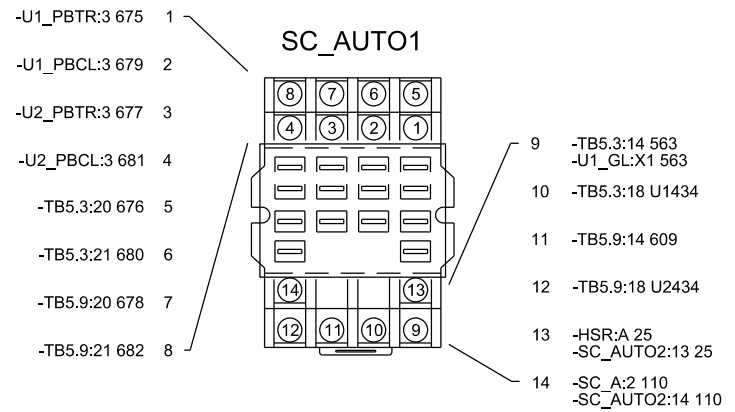
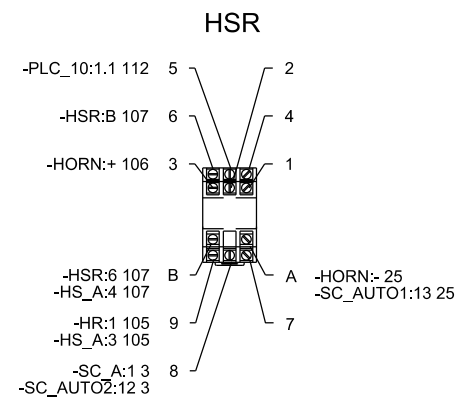
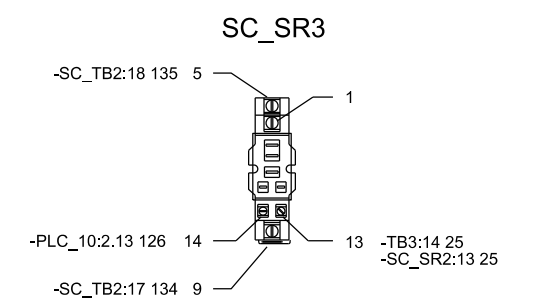
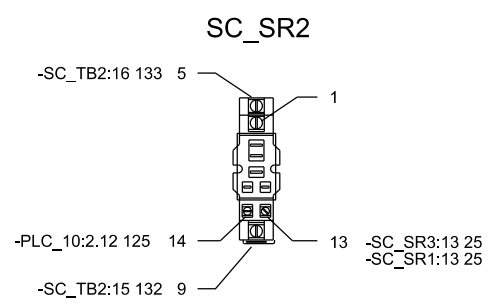
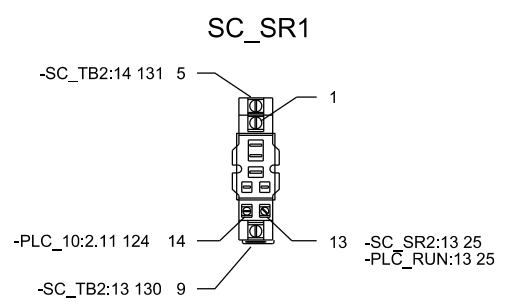
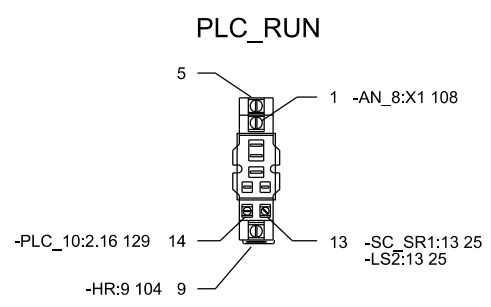
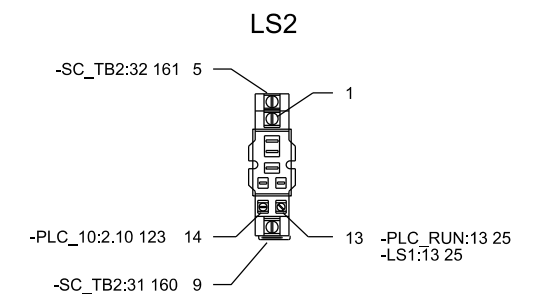
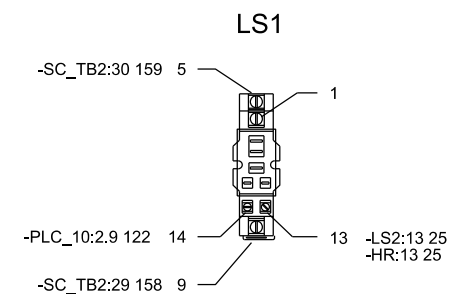
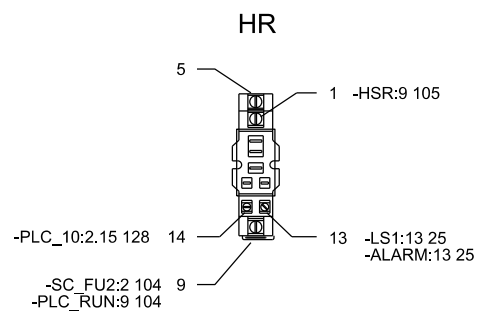
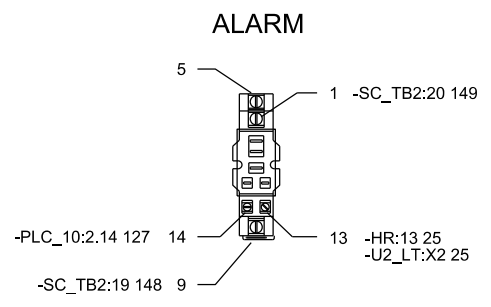
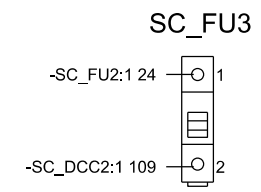
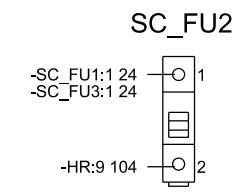
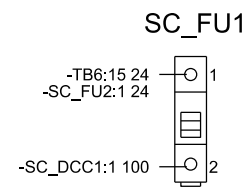
Replace the existing network switch with an client approved network switch. Also provide a fiber optic patch panel.

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	141 of 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWC NO.	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	SGP-1350	
SECTION/FUNCTION			1		D		

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# BACKPANEL

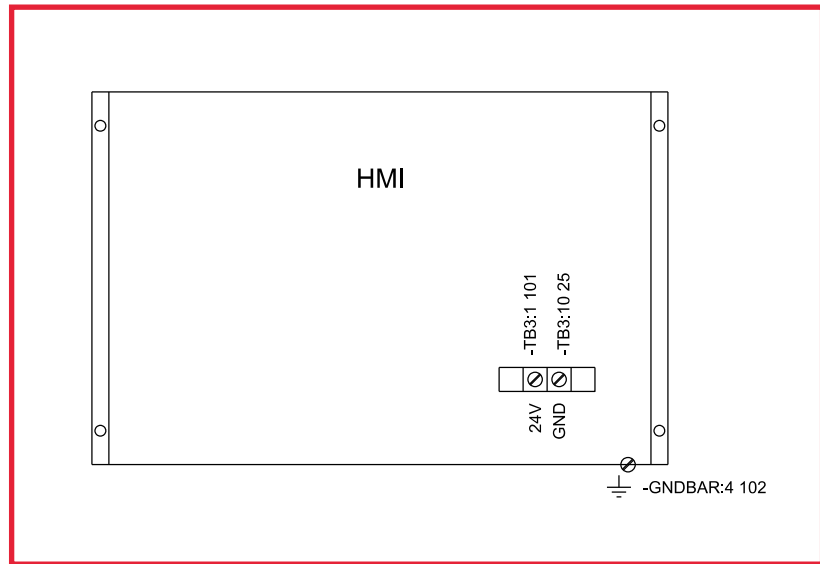
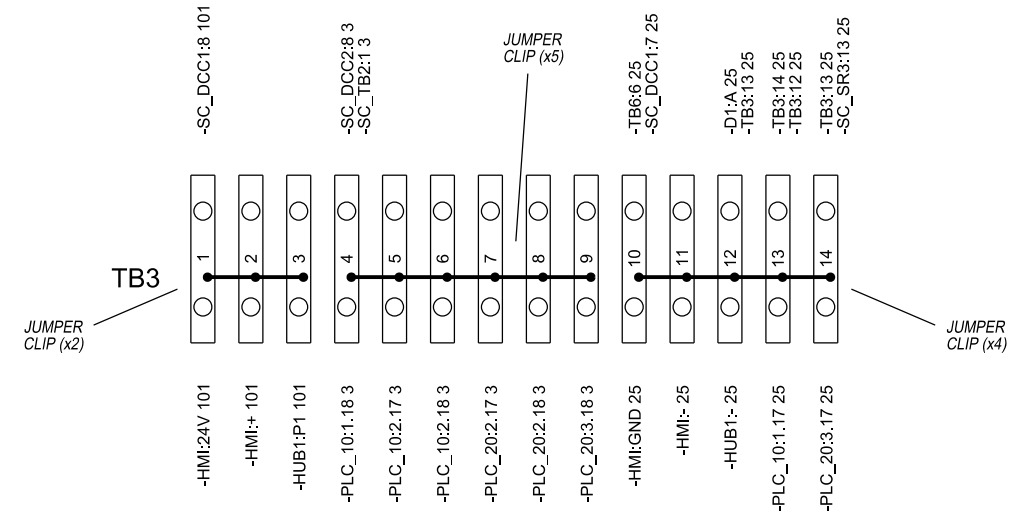
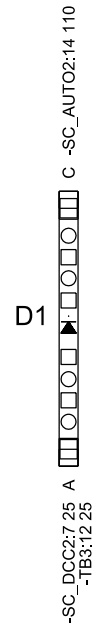
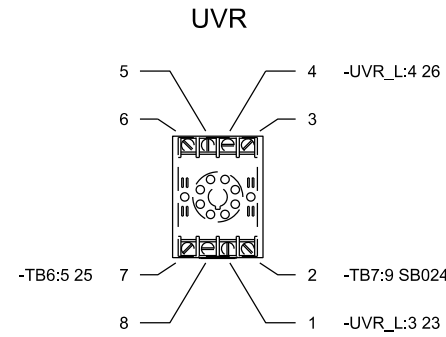


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	DWG. NO. SHEET 142 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	FLOTTED	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	DWG. NO. SGP-1350 D	

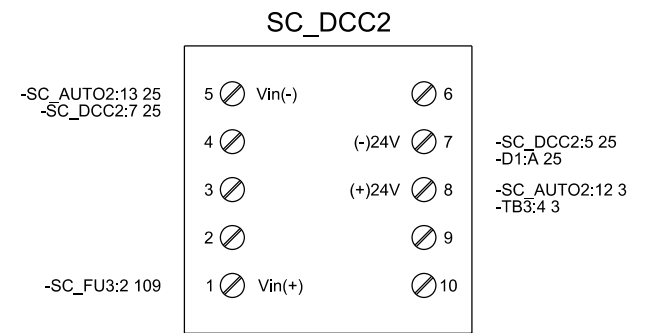
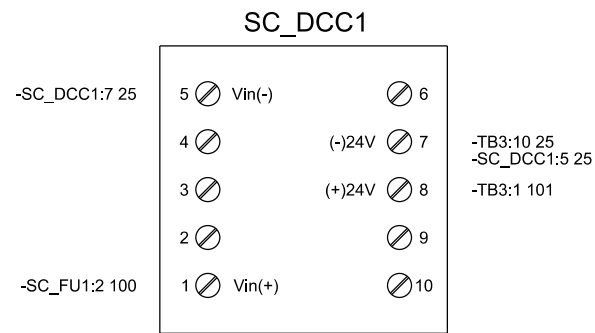
SECTION/FUNCTION 1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

**BACKPANEL**



Replace the existing HMI with an Allen-Bradley PanelView Plus

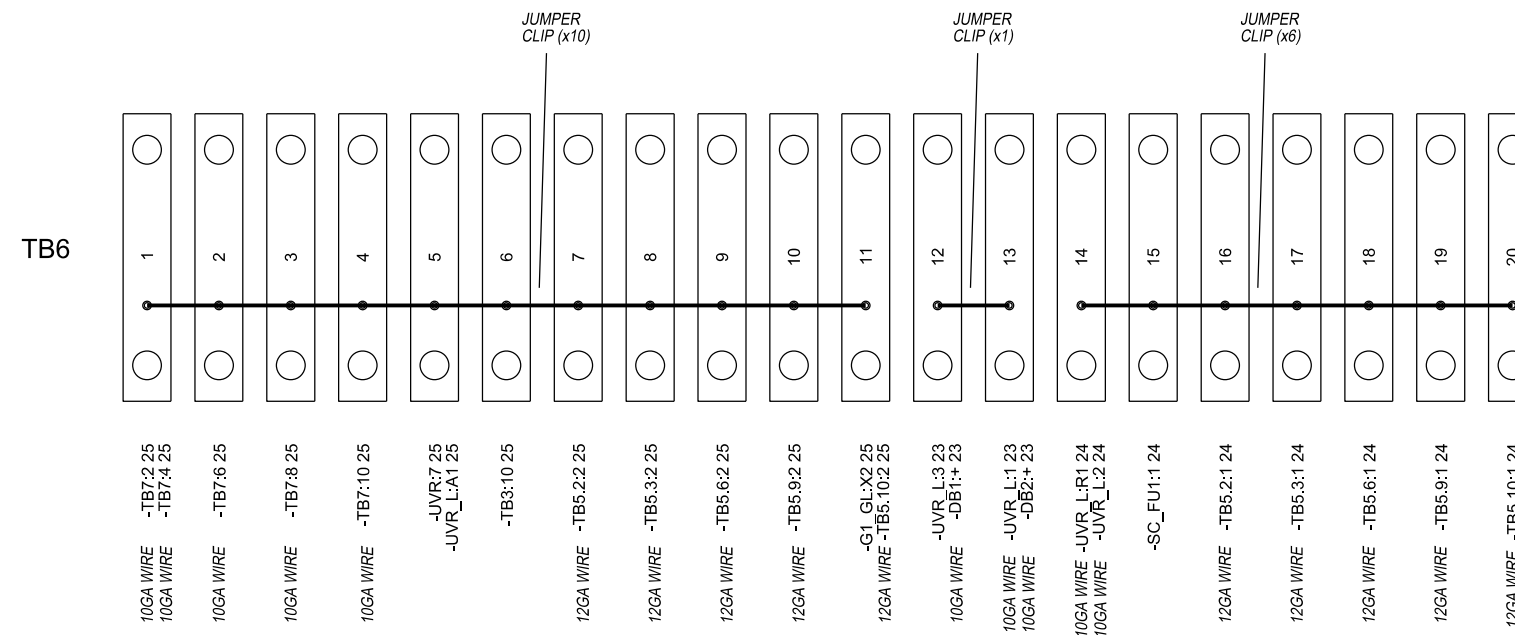
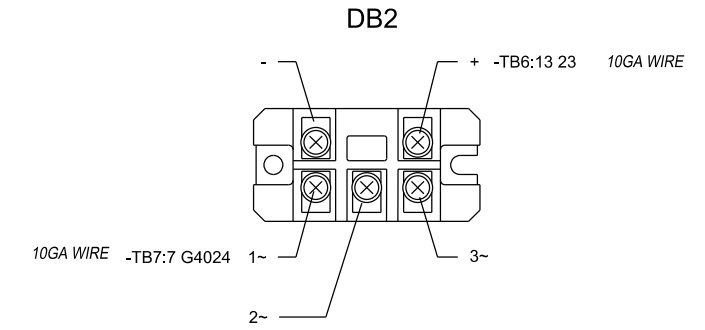
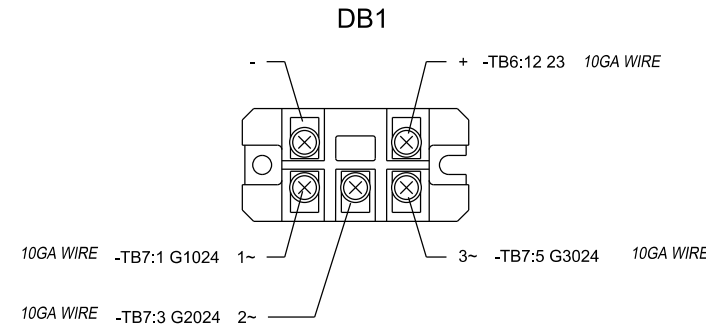
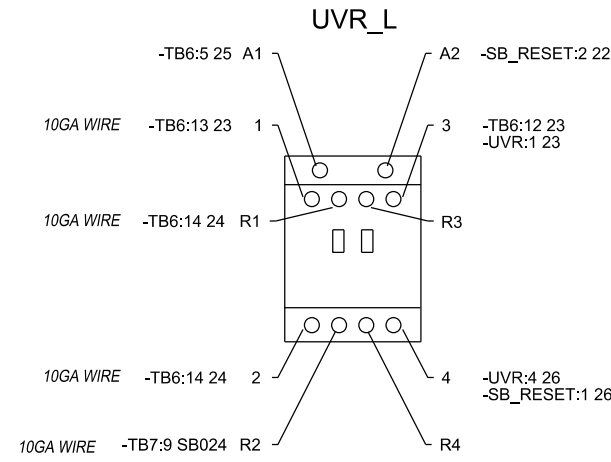


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL		
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	143 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PLOTTED	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	DWG. NO.	
SECTION/FUNCTION 1				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350   D

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# BACKPANEL

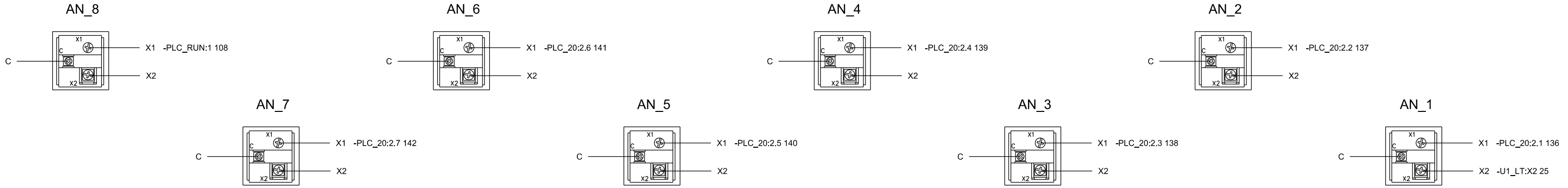


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DATE	1-5-10	SHEET	144 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	SGP-1350

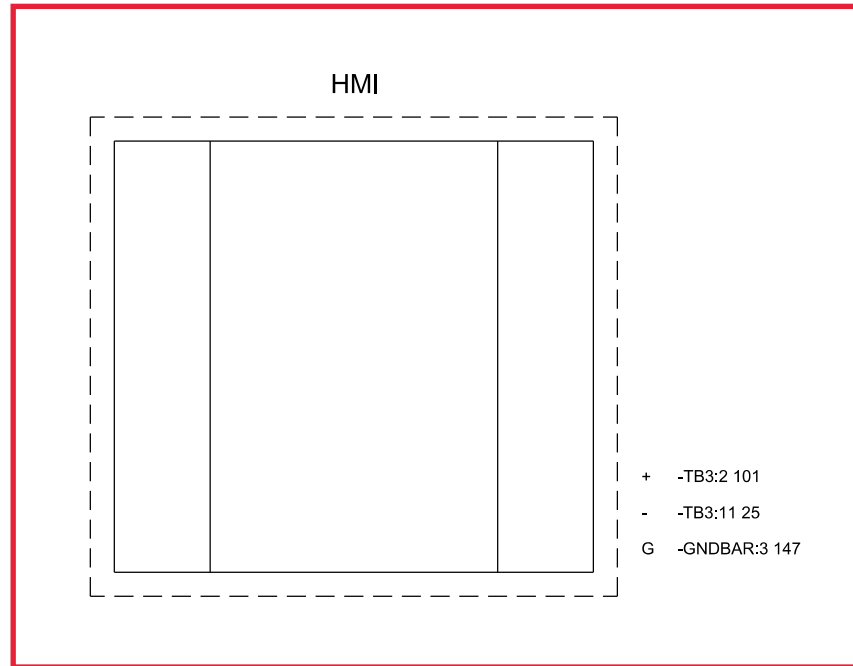
SECTION/FUNCTION  
1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

**DOOR**  
(REAR VIEW)



Replace the existing HMI with an Allen-Bradley PanelView Plus

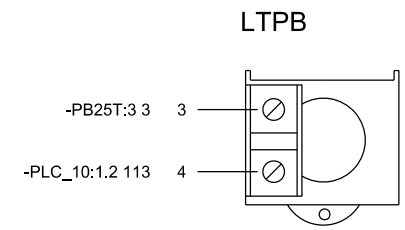
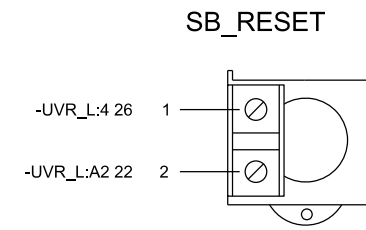
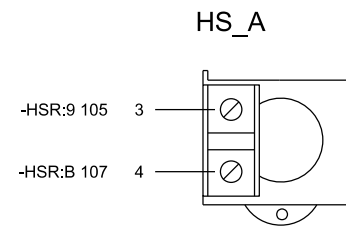
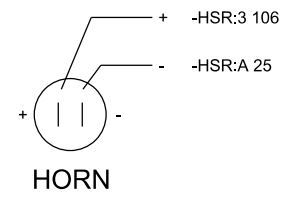
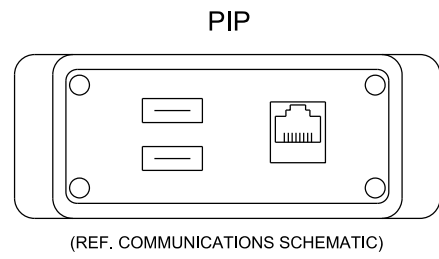


CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10	SHEET	E 145 of 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.
				APPROVED	RMB	1-5-10	SGP-1350

SECTION/FUNCTION  
1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

DOOR  
(REAR VIEW)



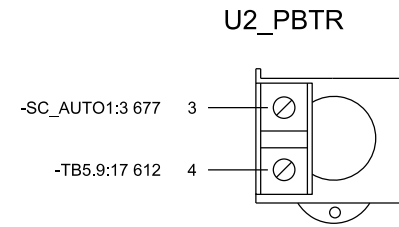
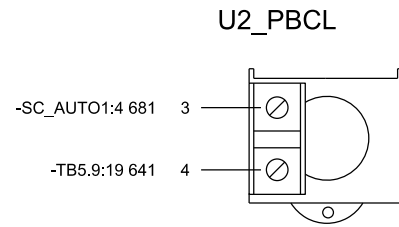
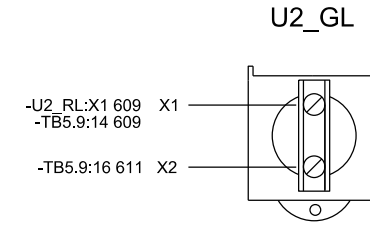
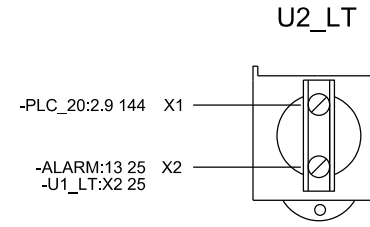
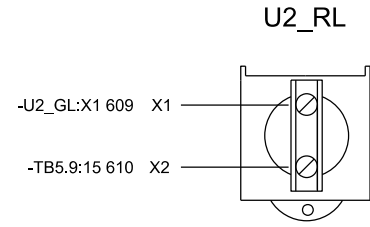
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	146 of 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWG. NO.	SGP-1350
SECTION/FUNCTION			APPROVED		RMB		1-5-10

SECTION/FUNCTION  
1

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(REAR VIEW)



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	E 147 OF 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWG. NO.	SGP-1350
				APPROVED	RMB	D	

SECTION/FUNCTION  
1

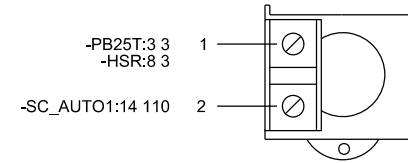
PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350

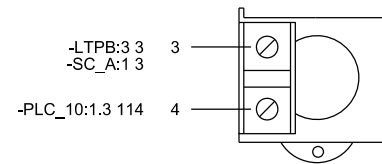
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DOOR  
(REAR VIEW)

SC\_A

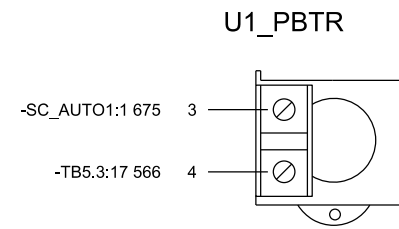
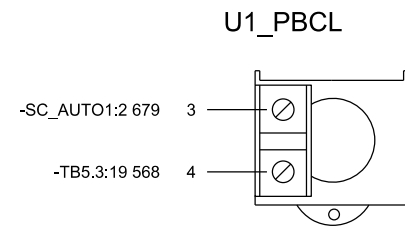
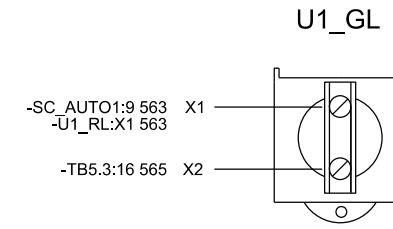
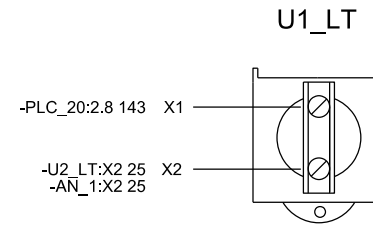
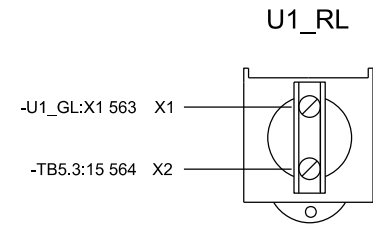


PB25T



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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90646	ITEM CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS		DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN RTR		1-5-10	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
SECTION/FUNCTION 1				APPROVED	RMB	1-5-10	
<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>				DWG. NO.		SGP-1350   D	
				SCALE	CAD NO.	SHEET 148 of 179	

DOOR  
(REAR VIEW)



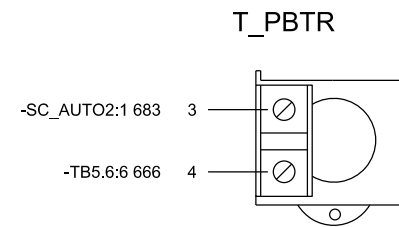
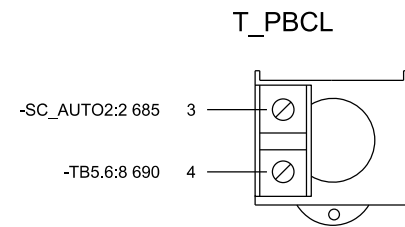
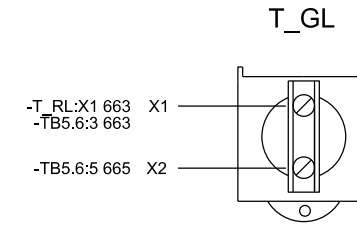
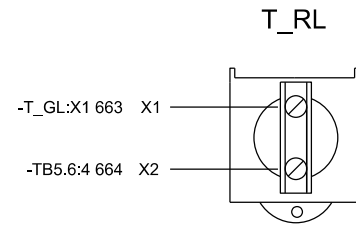
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	149 of 179
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DWG. NO.	SGP-1350
SECTION/FUNCTION			APPROVED		RMB		1-5-10

SECTION/FUNCTION  
1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

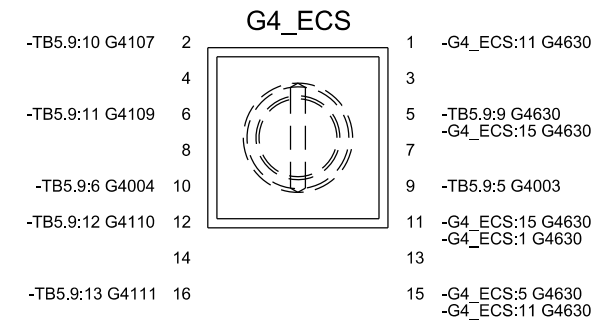
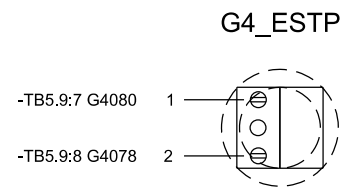
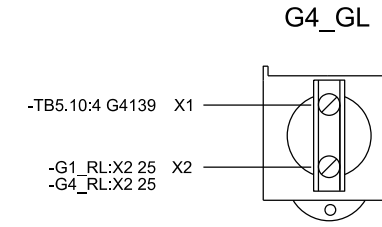
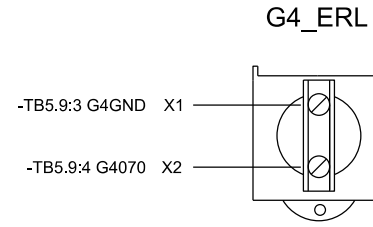
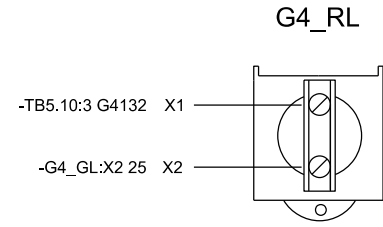
SGP-1350 | D

DOOR  
(REAR VIEW)



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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		ES NO.:	ITEM
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR			ES-90646	CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL			APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR			RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR			CHECKED	
						RMB	1-5-10
						APPROVED	1-5-10
						RMB	
SECTION/FUNCTION 1				<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>		SCALE: DWG. NO. SHEET 150 of 179 TITLED: WIRING DIAGRAM SYSTEM CONTROL DATED: SGP-1350	

DOOR  
(REAR VIEW)



CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90646	ITEM CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10
SECTION/FUNCTION	1	PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SCALE	CAD NO.	SHEET 151 OF 179
		DWG. NO. SGP-1350				

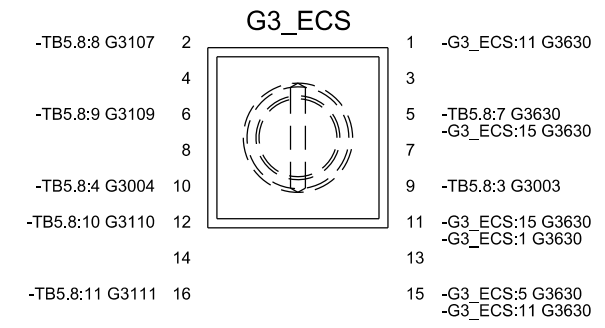
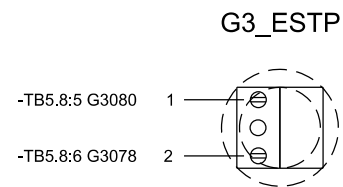
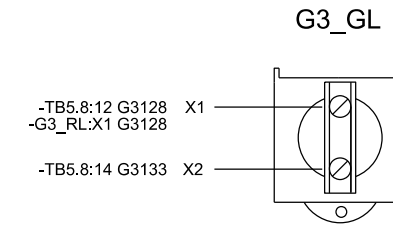
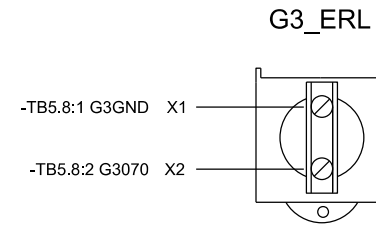
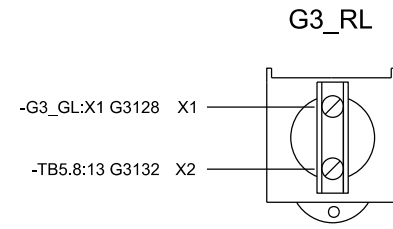
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TITLE  
**WIRING DIAGRAM  
SYSTEM CONTROL**

SCALE  
DWG. NO. SGP-1350

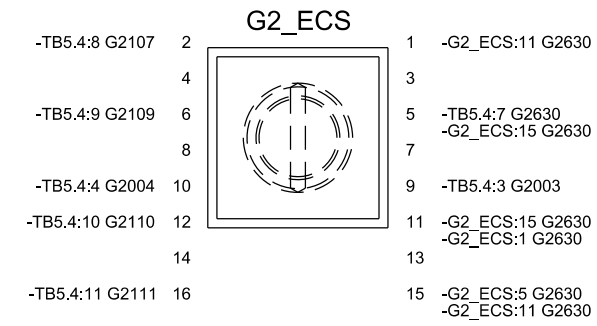
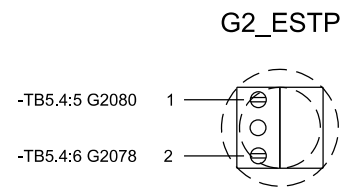
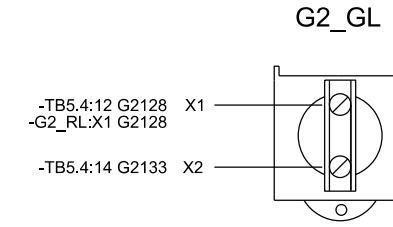
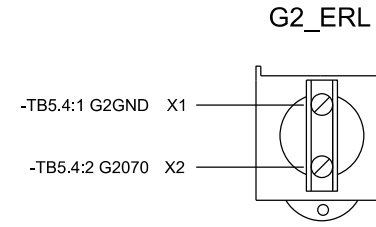
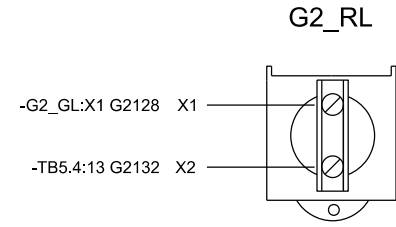


**DOOR**  
(REAR VIEW)



CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90646	ITEM CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	TITLE WIRING DIAGRAM SYSTEM CONTROL
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	SCALE 1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	DATE 1-5-10
SECTION/FUNCTION 1				APPROVED	RMB	DATE 1-5-10
<p align="center"><b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b></p>				PROJECT NO.:	SGP-1350	
				PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
				POWER SYSTEMS, KOHLER, WI 53044 U.S.A.	THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
				KOHLER CO.		
				DWG. NO. SGP-1350		
				SHEET 152 OF 179		

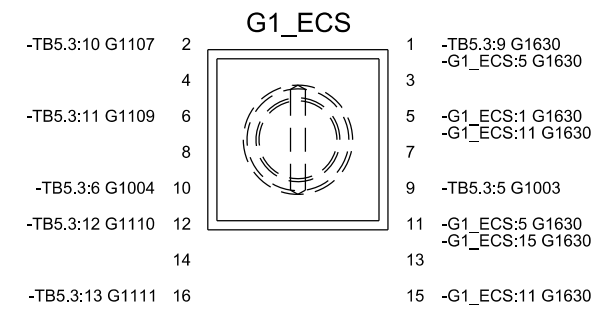
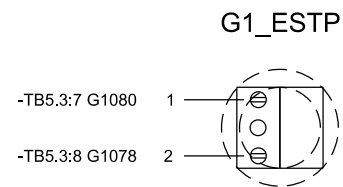
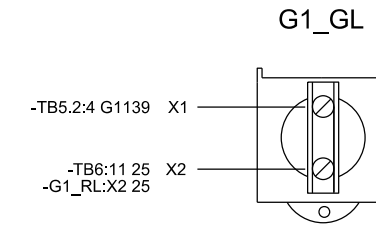
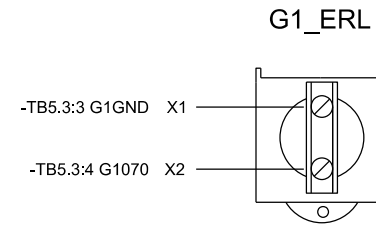
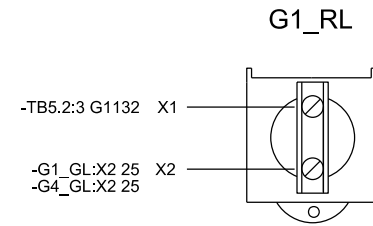
DOOR  
(REAR VIEW)



CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90646	ITEM CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	TITLE WIRING DIAGRAM SYSTEM CONTROL
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10
SECTION/FUNCTION 1				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED		SCALE DWG. NO. SGP-1350
				SHEET E 153 of 179		D

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DOOR  
(REAR VIEW)



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES-90646	CTRL	WIRING DIAGRAM SYSTEM CONTROL		
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SCALE	CAD NO.	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SHEET	E 154 of 179	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	DWG. NO.	
				APPROVED	RMB	1-5-10	PRINTED	
SECTION/FUNCTION 1				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				SGP-1350   D

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# UPPER LEFTPAN

**TB5.2**

○ 1 ○	-TB6:16 24 12GA WIRE
○ 2 ○	-TB6:7 25 12GA WIRE
○ 3 ○	-G1_RL:X1 G1132
○ 4 ○	-G1_GL:X1 G1139
○ 5 ○	
○ 6 ○	

**TB5.3**

○ 1 ○	-TB6:17 24 12GA WIRE
○ 2 ○	-TB6:8 25 12GA WIRE
○ 3 ○	-G1_ERL:X1 G1GND
○ 4 ○	-G1_ERL:X2 G1070
○ 5 ○	-G1_ECS:9 G1003
○ 6 ○	-G1_ECS:10 G1004
○ 7 ○	-G1_ESTP:1 G1080
○ 8 ○	-G1_ESTP:2 G1078
○ 9 ○	-G1_ECS:1 G1630
○ 10 ○	-G1_ECS:2 G1107
○ 11 ○	-G1_ECS:6 G1109
○ 12 ○	-G1_ECS:12 G1110
○ 13 ○	-G1_ECS:16 G1111
○ 14 ○	-SC_AUTO1:9 563
○ 15 ○	-U1_RL:X2 564
○ 16 ○	-U1_GL:X2 565
○ 17 ○	-U1_PBTR:4 566
○ 18 ○	-SC_AUTO1:10 U1434
○ 19 ○	-U1_PBCL:4 568
○ 20 ○	-SC_AUTO1:5 676
○ 21 ○	-SC_AUTO1:6 680
○ 22 ○	-SC_TB2:21 150
○ 23 ○	-SC_TB2:22 151

**TB5.4**

○ 1 ○	-G2_ERL:X1 G2GND
○ 2 ○	-G2_ERL:X2 G2070
○ 3 ○	-G2_ECS:9 G2003
○ 4 ○	-G2_ECS:10 G2004
○ 5 ○	-G2_ESTP:1 G2080
○ 6 ○	-G2_ESTP:2 G2078
○ 7 ○	-G2_ECS:5 G2630
○ 8 ○	-G2_ECS:2 G2107
○ 9 ○	-G2_ECS:6 G2109
○ 10 ○	-G2_ECS:12 G2110
○ 11 ○	-G2_ECS:16 G2111
○ 12 ○	-G2_GL:X1 G2128
○ 13 ○	-G2_RL:X2 G2132
○ 14 ○	-G2_GL:X2 G2133
○ 15 ○	-SC_TB2:23 152
○ 16 ○	-SC_TB2:24 153

**TB5.6**

○ 1 ○	-TB6:18 24 12GA WIRE
○ 2 ○	-TB6:9 25 12GA WIRE
○ 3 ○	-T_GL:X1 663 -SC_AUTO2:9 663
○ 4 ○	-T_RL:X2 664
○ 5 ○	-T_GL:X2 665
○ 6 ○	-T_PBTR:4 666
○ 7 ○	-SC_AUTO2:10 T101
○ 8 ○	-T_PBCL:4 690
○ 9 ○	-SC_AUTO2:5 684
○ 10 ○	-SC_AUTO2:6 686

**TB5.8**

○ 1 ○	-G3_ERL:X1 G3GND
○ 2 ○	-G3_ERL:X2 G3070
○ 3 ○	-G3_ECS:9 G3003
○ 4 ○	-G3_ECS:10 G3004
○ 5 ○	-G3_ESTP:1 G3080
○ 6 ○	-G3_ESTP:2 G3078
○ 7 ○	-G3_ECS:5 G3630
○ 8 ○	-G3_ECS:2 G3107
○ 9 ○	-G3_ECS:6 G3109
○ 10 ○	-G3_ECS:12 G3110
○ 11 ○	-G3_ECS:16 G3111
○ 12 ○	-G3_GL:X1 G3128
○ 13 ○	-G3_RL:X2 G3132
○ 14 ○	-G3_GL:X2 G3133
○ 15 ○	-SC_TB2:25 154
○ 16 ○	-SC_TB2:26 155

**TB5.9**

○ 1 ○	-TB6:19 24 12GA WIRE
○ 2 ○	-TB6:10 25 12GA WIRE
○ 3 ○	-G4_ERL:X1 G4GND
○ 4 ○	-G4_ERL:X2 G4070
○ 5 ○	-G4_ECS:9 G4003
○ 6 ○	-G4_ECS:10 G4004
○ 7 ○	-G4_ESTP:1 G4080
○ 8 ○	-G4_ESTP:2 G4078
○ 9 ○	-G4_ECS:5 G4630
○ 10 ○	-G4_ECS:2 G4107
○ 11 ○	-G4_ECS:6 G4109
○ 12 ○	-G4_ECS:12 G4110
○ 13 ○	-G4_ECS:16 G4111
○ 14 ○	-U2_GL:X1 609 -SC_AUTO1:11 609
○ 15 ○	-U2_RL:X2 610
○ 16 ○	-U2_GL:X2 611
○ 17 ○	-U2_PBTR:4 612
○ 18 ○	-SC_AUTO1:12 U2434
○ 19 ○	-U2_PBCL:4 641
○ 20 ○	-SC_AUTO1:7 678
○ 21 ○	-SC_AUTO1:8 682
○ 22 ○	-SC_TB2:27 156
○ 23 ○	-SC_TB2:28 157

**TB5.10**

○ 1 ○	-TB6:20 24 12GA WIRE
○ 2 ○	-TB6:11 25 12GA WIRE
○ 3 ○	-G4_RL:X1 G4132
○ 4 ○	-G4_GL:X1 G4139

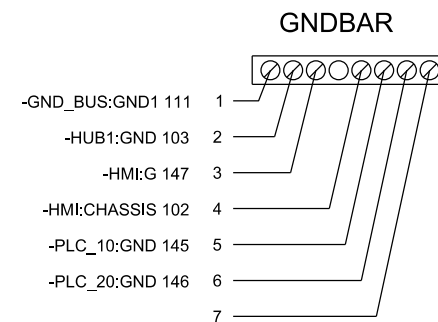
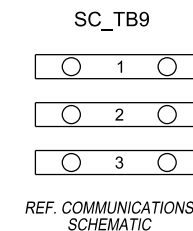
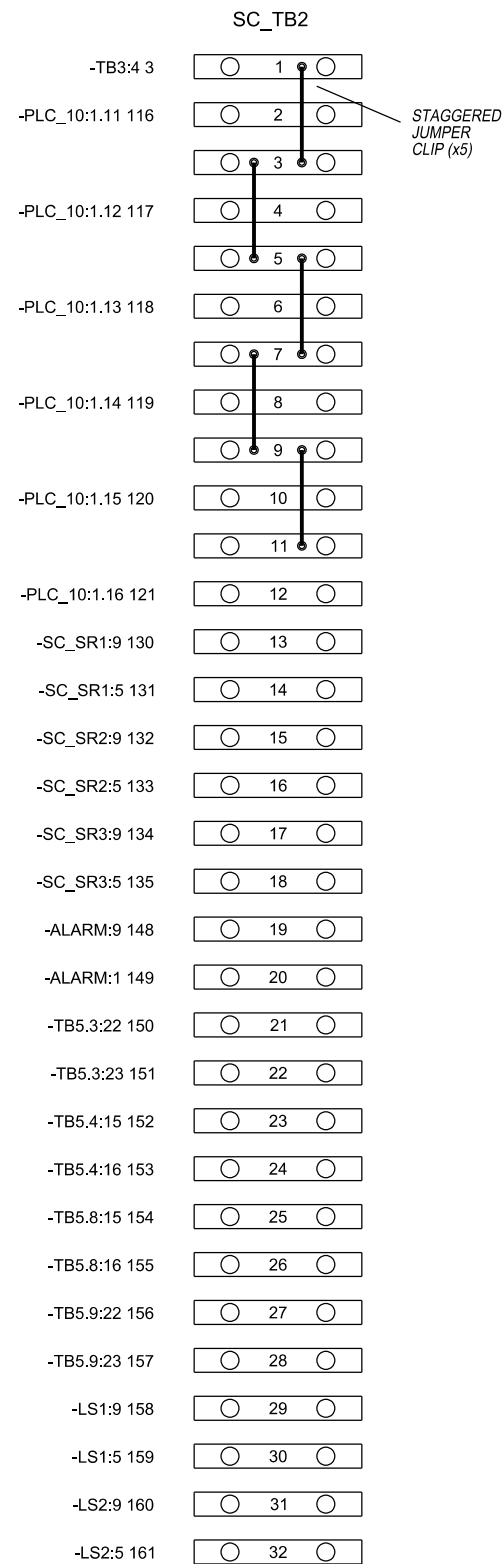
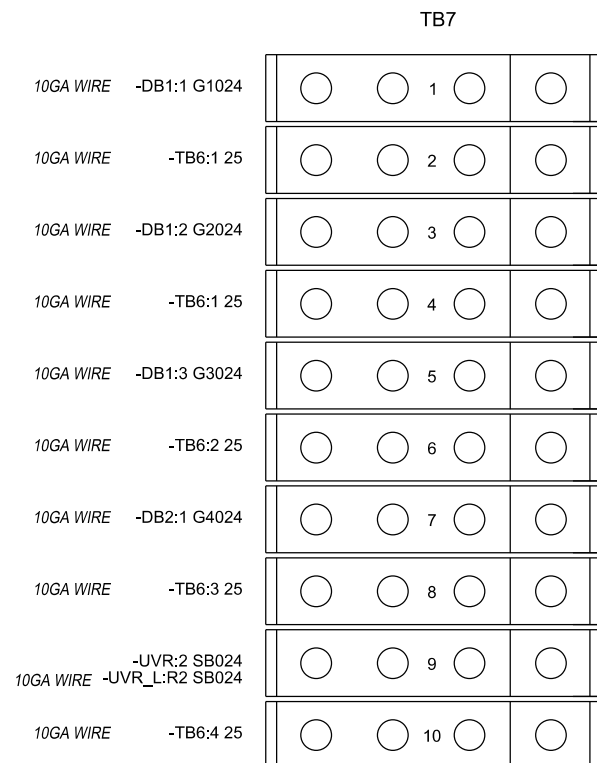
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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ES-90646	ITEM CTRL
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10
SECTION/FUNCTION 1				SCALE 1:1		
1				DWC NO. SGP-1350		
1				SHEET 155 of 179		

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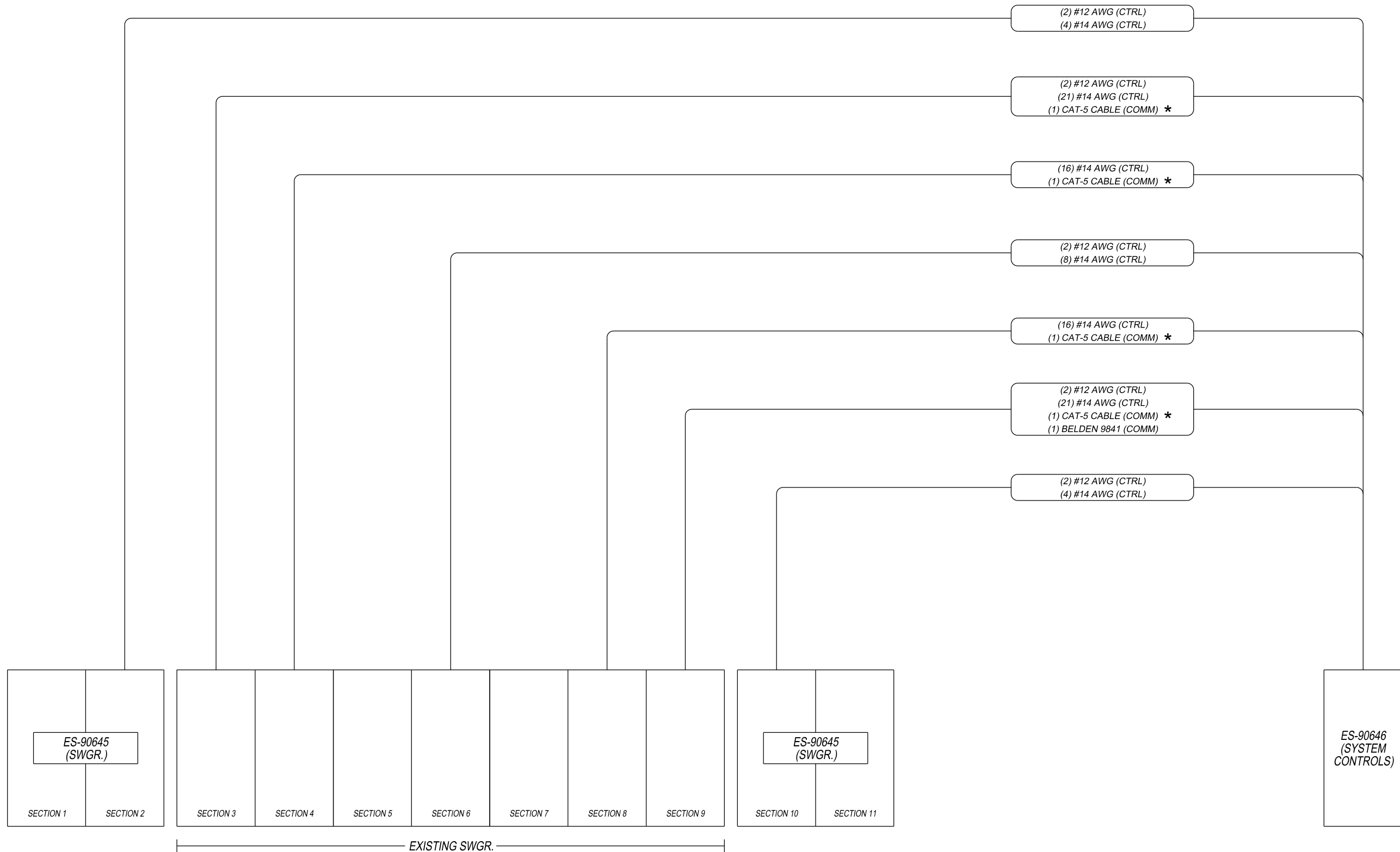
TITLE  
**WIRING DIAGRAM  
SYSTEM CONTROL**

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

# UPPER RIGHTPAN



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		<b>KOHLER CO</b>		
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: ES-90646	ITEM	CTRL	TITLE	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE		WIRING DIAGRAM SYSTEM CONTROL	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	RTR	1-5-10	SCALE	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	CAD NO.	
				APPROVED	RMB	1-5-10	SHEET 156 OF 179	
SECTION/FUNCTION 1				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWG. NO. SGP-1350   D



\* - IF CABLE LENGTH IS GREATER THAN 300', PLEASE CONTACT FACTORY

**NOTES:**

- POWER CONNECTIONS NOT SHOWN.
- WIRE SIZE & QUANTITIES ARE MINIMUM REQUIRED, SPARES NOT INCLUDED.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE 600V 90° STRANDED.

5. CONNECTIONS SHOWN ON THIS DRAWING ARE FOR PLANNING PURPOSES ONLY.  
SEE CUSTOMER INTERCONNECT FOR SPECIFIC CONNECTIONS.

6. 24VDC BATTERY SUPPLY WIRING SHALL BE #10 AWG WIRE (MINIMUM), FOR WIRE LENGTHS OF 150 FEET OR LESS (ONE WAY). FOR WIRE LENGTHS GREATER THAN 150 FEET, PLEASE CONSULT FACTORY FOR PROPER WIRE GAUGE SIZING.

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

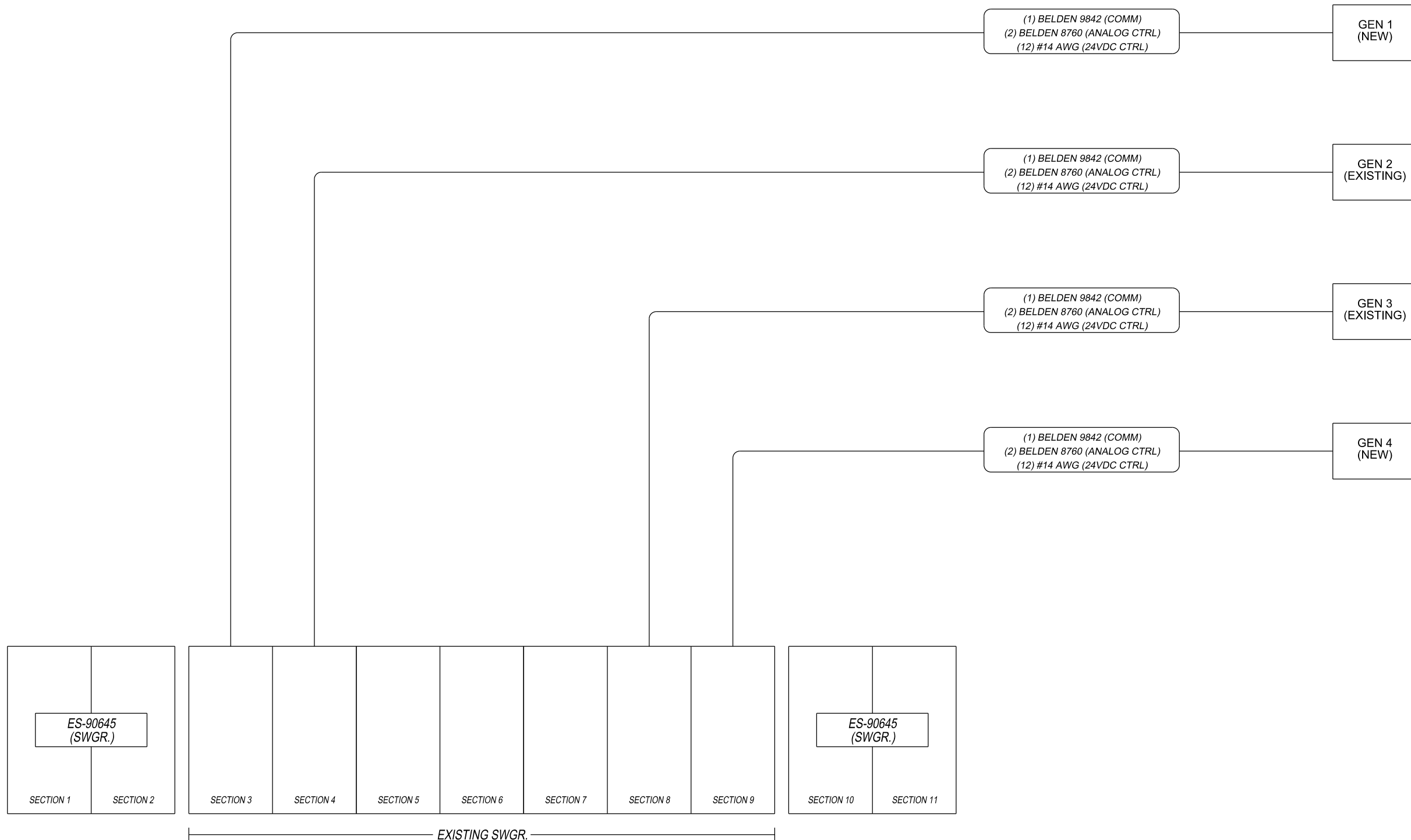
PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN	1-5-10
CHECKED	RMB 1-5-10
APPROVED	RMB 1-5-10

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TITLE	BLOCK INTERCONNECT LINEUPS
SCALE	CAD NO.
PLOTTED	DWG. NO. SGP-1350
SHEET	157 OF 179

SECTION/FUNCTION  
B1

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D



**NOTES:**

- POWER CONNECTIONS NOT SHOWN.
- WIRE SIZE & QUANTITIES ARE MINIMUM REQUIRED, SPARES NOT INCLUDED.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE 600V 90° STRANDED.

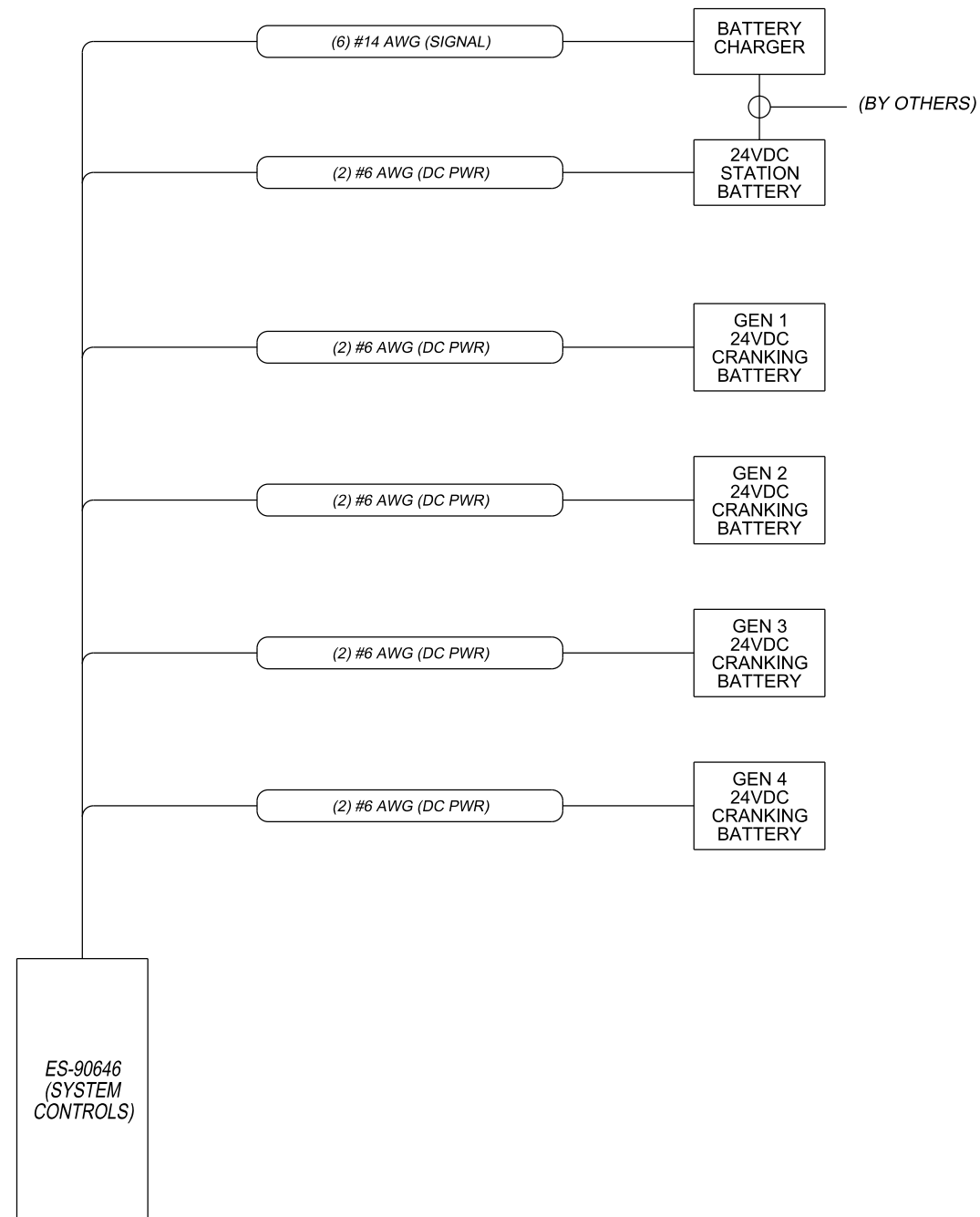
- CONNECTIONS SHOWN ON THIS DRAWING ARE FOR PLANNING PURPOSES ONLY. SEE CUSTOMER INTERCONNECT FOR SPECIFIC CONNECTIONS.
- 24VDC BATTERY SUPPLY WIRING SHALL BE #10 AWG WIRE (MINIMUM), FOR WIRE LENGTHS OF 150 FEET OR LESS (ONE WAY). FOR WIRE LENGTHS GREATER THAN 150 FEET, PLEASE CONSULT FACTORY FOR PROPER WIRE GAUGE SIZING.

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	-
ITEM:	-
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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<b>TITLE</b> BLOCK INTERCONNECT GENERATORS & RELATED		
SCALE	CAD NO.	SHEET 158 OF 179
PLOTTED	DWG. NO.	SGP-1350   D

SECTION/FUNCTION BI PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



**NOTES:**

1. POWER CONNECTIONS NOT SHOWN.
2. WIRE SIZE & QUANTITIES ARE MINIMUM REQUIRED, SPARES NOT INCLUDED.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE 600V 90° STRANDED.

5. CONNECTIONS SHOWN ON THIS DRAWING ARE FOR PLANNING PURPOSES ONLY. SEE CUSTOMER INTERCONNECT FOR SPECIFIC CONNECTIONS.

6. 24VDC BATTERY SUPPLY WIRING SHALL BE #10 AWG WIRE (MINIMUM), FOR WIRE LENGTHS OF 150 FEET OR LESS (ONE WAY). FOR WIRE LENGTHS GREATER THAN 150 FEET, PLEASE CONSULT FACTORY FOR PROPER WIRE GAUGE SIZING.

SECTION/FUNCTION  
B1

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.:	SGP-1350	
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
ES NO.:	-	ITEM -
APPROVALS	DATE	
DRAWN	RTR	1-5-10
CHECKED	RMB	1-5-10
APPROVED	RMB	1-5-10

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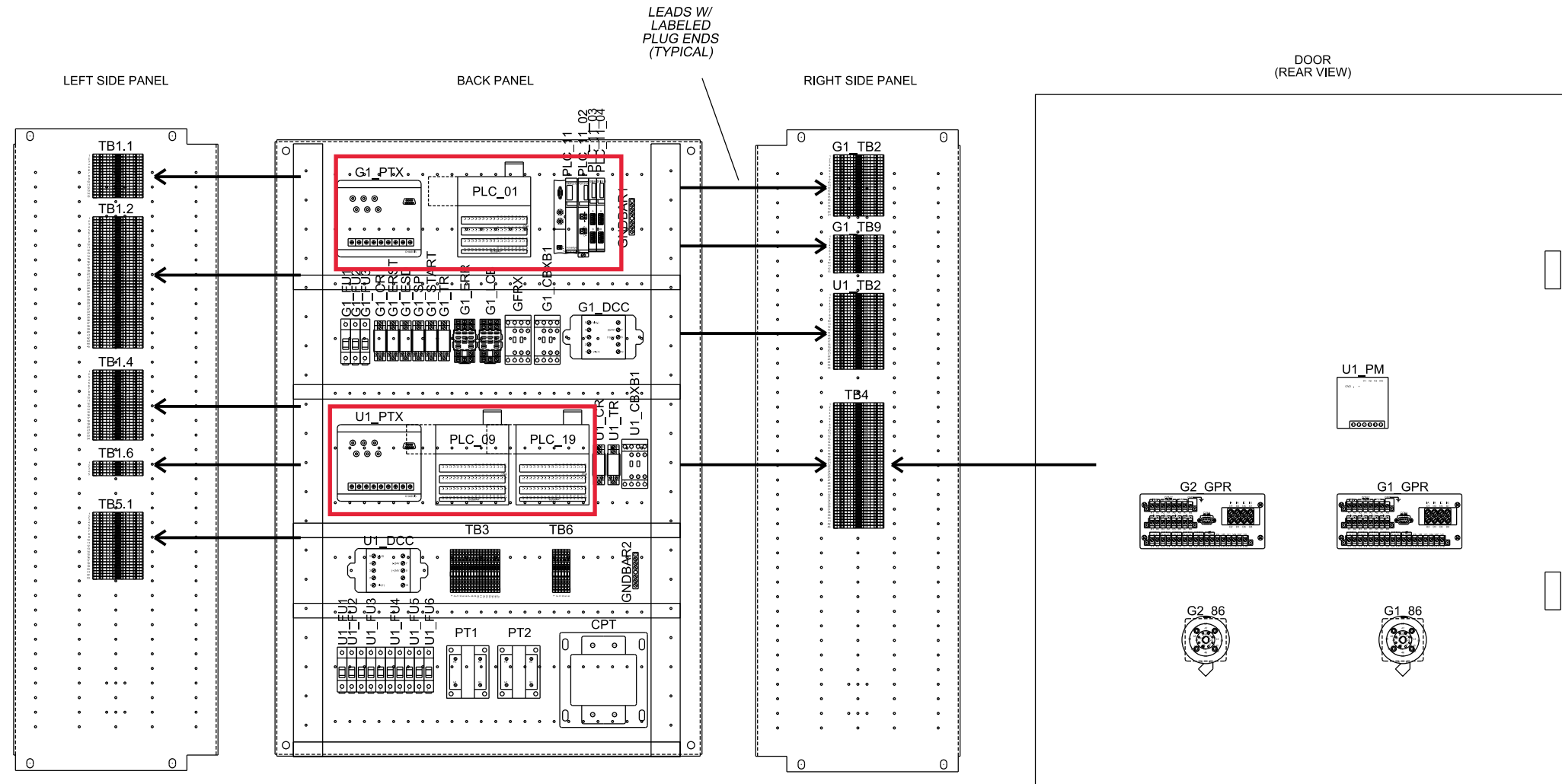
TITLE: **BLOCK INTERCONNECT DC POWER DISTRIBUTION**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: 159 of 179

PLOTTED: \_\_\_\_\_ DWG. NO.: SGP-1350 | D

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED





See notes on other drawings concerning PLC and PTX replacement

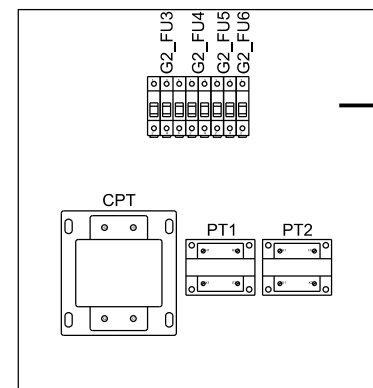
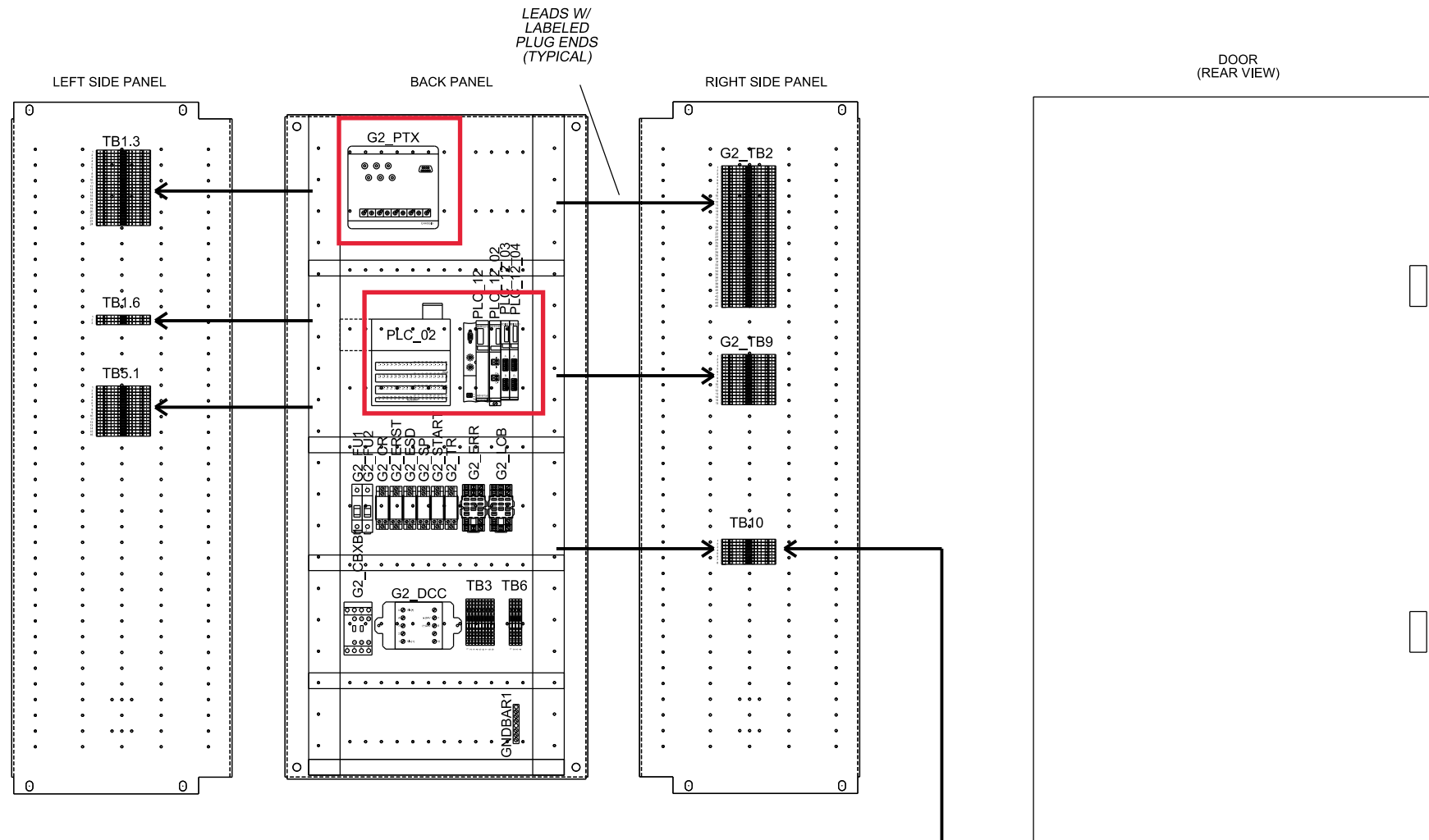
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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	
A	1-27-10	FOR APPROVAL [89286]	PJL	-	-	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	RTR	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10

SECTION/FUNCTION	C13		SCALE	CAD NO.	SHEET	E 160 OF 179
<b>PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</b>			<b>SGP-1350</b>		<b>D</b>	

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TITLE: **CUSTOMER INTERCONNECT RE-CONNECT (SECTION 3)**

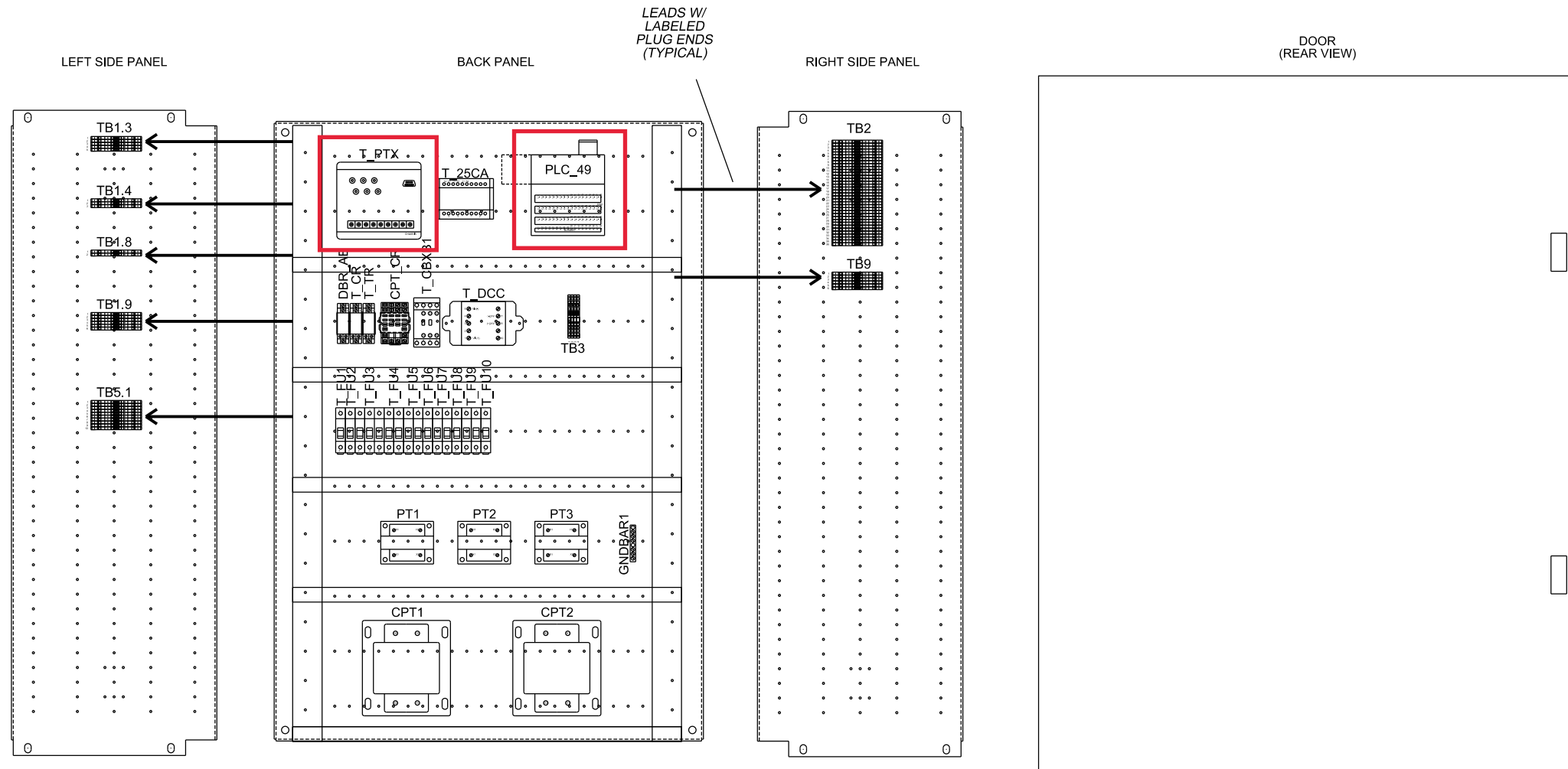


See notes on other drawings concerning PLC and PTX replacement

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.	ITEM	TITLE: CUSTOMER INTERCONNECT RE-CONNECT (SECTION 4)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	-	-	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET	E 161 OF 179
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	DWC NO. SGP-1350	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PRINTED
				APPROVED	RMB	1-5-10	D

SECTION/FUNCTION  
C14

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

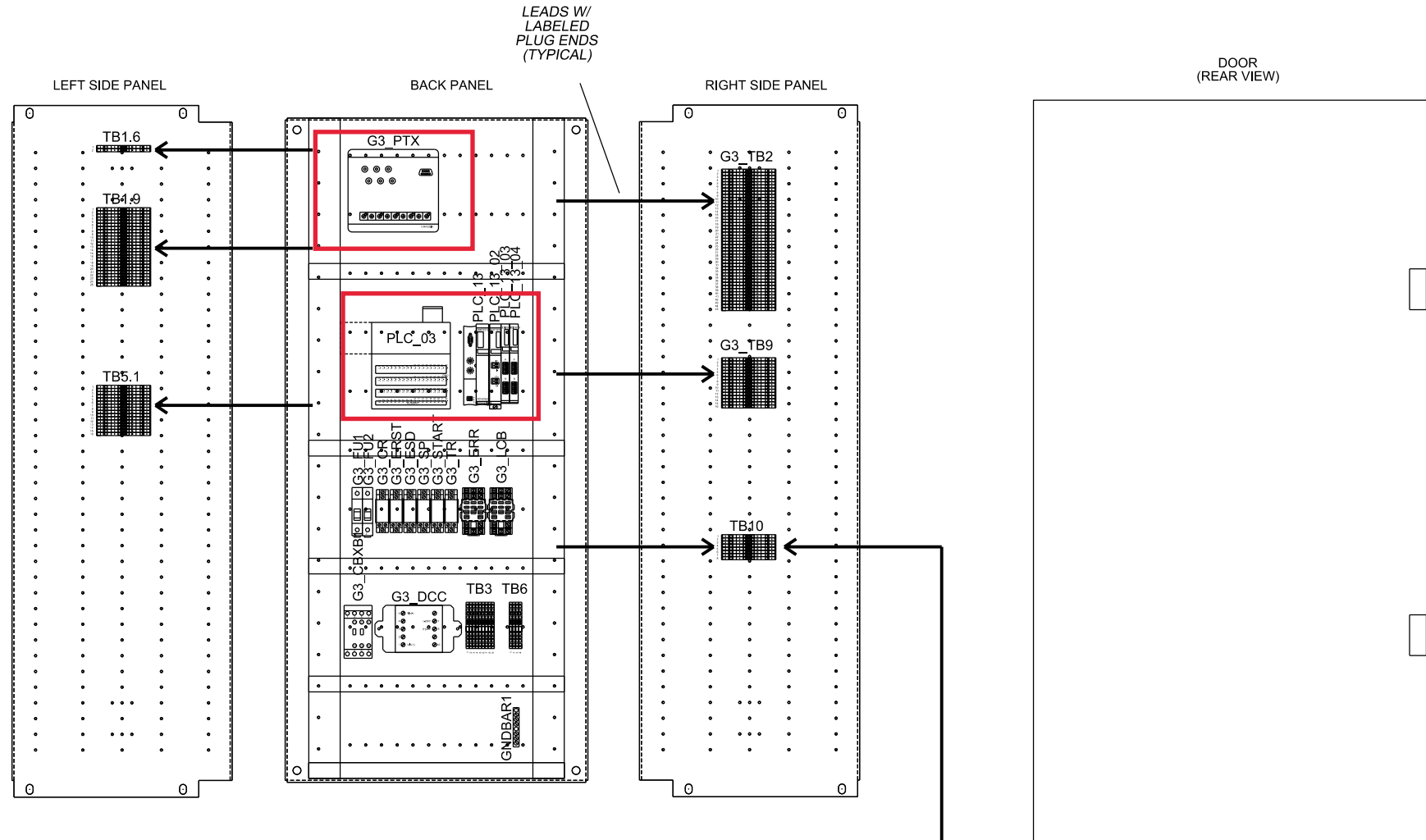


See notes on other drawings concerning PLC and PTX replacement

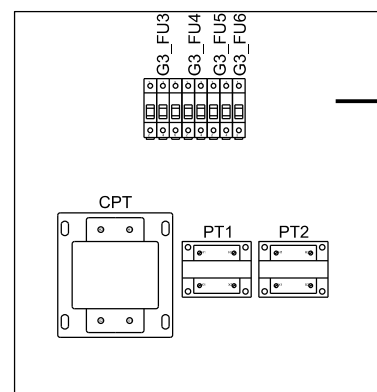
CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: CUSTOMER INTERCONNECT RE-CONNECT (SECTION 6)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	-	-	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET E 162 OF 179	DWG. NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SGP-1350	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	PRINTED
				APPROVED	RMB	1-5-10	D

SECTION/FUNCTION C16

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

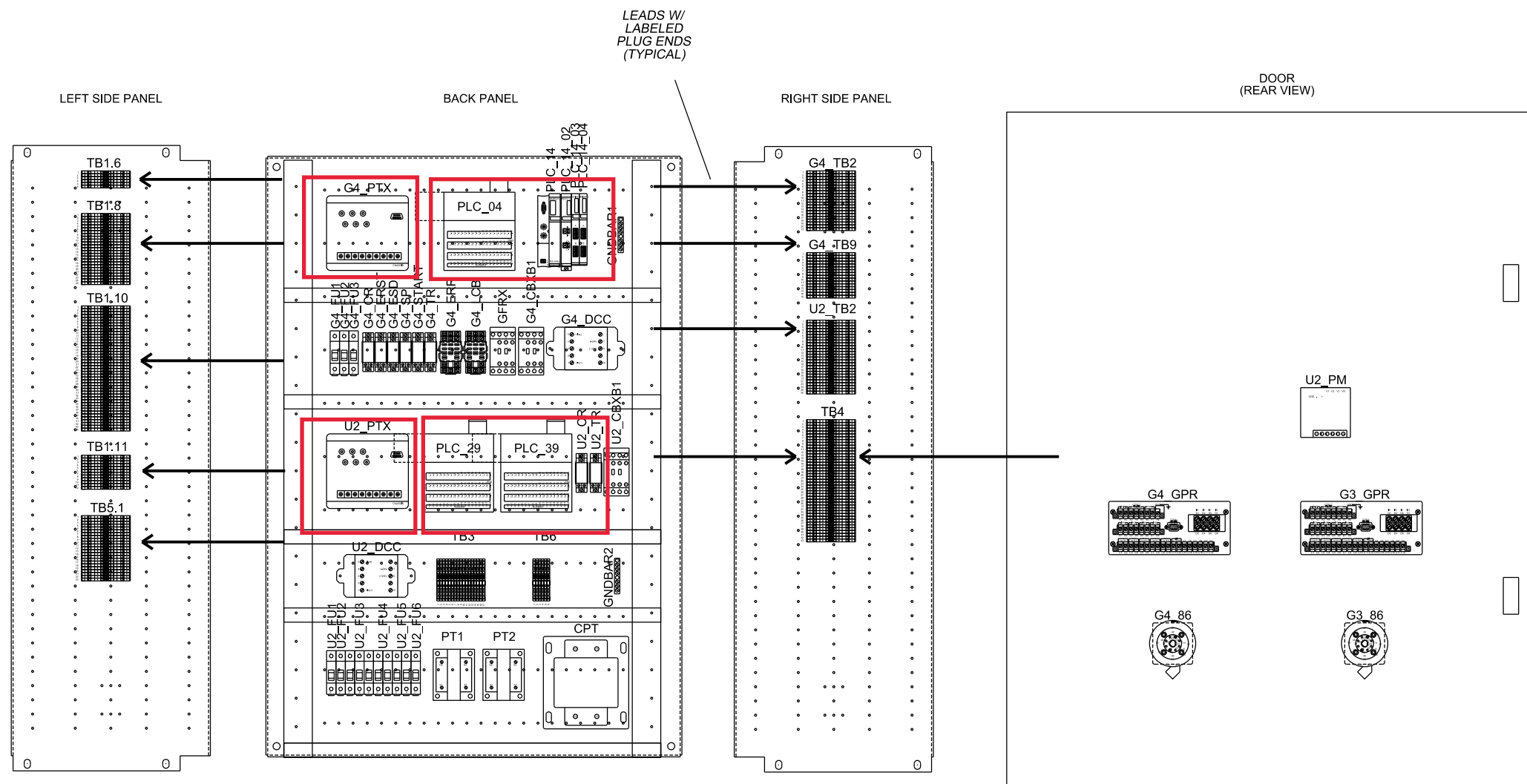


See notes on other drawings concerning PLC and PTX replacement



CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: CUSTOMER INTERCONNECT RE-CONNECT (SECTION 8)		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	-	-	SCALE	CAD NO.	
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET	E 163 OF 179	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	DRAWN		
C	7-21-10	AS BUILT [90178]	RTR	RMB	1-5-10	CHECKED		
				RMB	1-5-10	APPROVED		
SECTION/FUNCTION C18			PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED				DWG. NO. SGP-1350   D	

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See notes on other drawings concerning PLC and PTX replacement

CAE GENERATED DRAWING				PROJECT NO.: SGP-1350		PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
REV	DATE	REVISION	BY	ES NO.:	ITEM	TITLE: CUSTOMER INTERCONNECT RE-CONNECT (SECTION 9)	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	-	-	SCALE	CAD NO.
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE	SHEET E 164 OF 179	DWG. NO.
B	5-14-10	FOR MANUFACTURING [89803]	RTR	RTR	1-5-10	SGP-1350   D	
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB	1-5-10	
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM	APPROVED	RMB	1-5-10	

SECTION/FUNCTION C19

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SWGR. SECTION 2 (FEEDERS)

SWGR. SECTION 3 (UTILITY 1 / GEN 1)

SWGR. SECTION 4 (GEN 2)

SWGR. SECTION 6 (TIE)

-TB5.1

-TB5.1

-TB5.1

-TB5.1

DESTINATION	WIRE #		
12GA WIRE CTRL+1-TB5.2:1	24	○	1 ○
12GA WIRE CTRL+1-TB5.2:2	25	○	2 ○
CTRL+1-TB5.2:3	G1132	○	3 ○
CTRL+1-TB5.2:4	G1139	○	4 ○
CTRL+1-TB5.2:5	G1142	○	5 ○
CTRL+1-TB5.2:6	G1143	○	6 ○

DESTINATION	WIRE #		
12GA WIRE CTRL+1-TB5.3:1	24	○	1 ○
12GA WIRE CTRL+1-TB5.3:2	25	○	2 ○
CTRL+1-TB5.3:3	G1GND	○	3 ○
CTRL+1-TB5.3:4	G1070	○	4 ○
CTRL+1-TB5.3:5	G1003	○	5 ○
CTRL+1-TB5.3:6	G1004	○	6 ○
CTRL+1-TB5.3:7	G1080	○	7 ○
CTRL+1-TB5.3:8	G1078	○	8 ○
CTRL+1-TB5.3:9	G1630	○	9 ○
CTRL+1-TB5.3:10	G1107	○	10 ○
CTRL+1-TB5.3:11	G1109	○	11 ○
CTRL+1-TB5.3:12	G1110	○	12 ○
CTRL+1-TB5.3:13	G1111	○	13 ○
CTRL+1-TB5.3:14	563	○	14 ○
CTRL+1-TB5.3:15	564	○	15 ○
CTRL+1-TB5.3:16	565	○	16 ○
CTRL+1-TB5.3:17	566	○	17 ○
CTRL+1-TB5.3:18	U1434	○	18 ○
CTRL+1-TB5.3:19	568	○	19 ○
CTRL+1-TB5.3:20	676	○	20 ○
CTRL+1-TB5.3:21	680	○	21 ○
CTRL+1-TB5.3:22	150	○	22 ○
CTRL+1-TB5.3:23	151	○	23 ○

DESTINATION	WIRE #		
CTRL+1-TB5.4:1	G2GND	○	1 ○
CTRL+1-TB5.4:2	G2070	○	2 ○
CTRL+1-TB5.4:3	G2003	○	3 ○
CTRL+1-TB5.4:4	G2004	○	4 ○
CTRL+1-TB5.4:5	G2080	○	5 ○
CTRL+1-TB5.4:6	G2078	○	6 ○
CTRL+1-TB5.4:7	G2630	○	7 ○
CTRL+1-TB5.4:8	G2107	○	8 ○
CTRL+1-TB5.4:9	G2109	○	9 ○
CTRL+1-TB5.4:10	G2110	○	10 ○
CTRL+1-TB5.4:11	G2111	○	11 ○
CTRL+1-TB5.4:12	G2128	○	12 ○
CTRL+1-TB5.4:13	G2132	○	13 ○
CTRL+1-TB5.4:14	G2133	○	14 ○
CTRL+1-TB5.4:15	152	○	15 ○
CTRL+1-TB5.4:16	153	○	16 ○

DESTINATION	WIRE #		
12GA WIRE CTRL+1-TB5.6:1	24	○	1 ○
12GA WIRE CTRL+1-TB5.6:2	25	○	2 ○
CTRL+1-TB5.6:3	663	○	3 ○
CTRL+1-TB5.6:4	664	○	4 ○
CTRL+1-TB5.6:5	665	○	5 ○
CTRL+1-TB5.6:6	666	○	6 ○
CTRL+1-TB5.6:7	T101	○	7 ○
CTRL+1-TB5.6:8	690	○	8 ○
CTRL+1-TB5.6:9	684	○	9 ○
CTRL+1-TB5.6:10	686	○	10 ○

NOTES:

- 1.) ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

CAGE CLAMP TERMINAL BLOCKS:

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
CI

CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	
A	1-27-10	FOR APPROVAL [89286]	PJL	-	-	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
			CHECKED	RMB	1-5-10	
			APPROVED	RMB	1-5-10	
<p style="text-align: center;">PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED</p>				SCALE	CAD NO.	SHEET 165 OF 179
				TITLE	WIRING DIAGRAM LINEUP CONNECT (SWGR)	
				DWG. NO.	SGP-1350	

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SWGR. SECTION 8 (GEN 3)

		-TB5.1	
DESTINATION	WIRE #		
CTRL+1-TB5.8:1	G3GND	○ 1 ○	
CTRL+1-TB5.8:2	G3070	○ 2 ○	
CTRL+1-TB5.8:3	G3003	○ 3 ○	
CTRL+1-TB5.8:4	G3004	○ 4 ○	
CTRL+1-TB5.8:5	G3080	○ 5 ○	
CTRL+1-TB5.8:6	G3078	○ 6 ○	
CTRL+1-TB5.8:7	G3630	○ 7 ○	
CTRL+1-TB5.8:8	G3107	○ 8 ○	
CTRL+1-TB5.8:9	G3109	○ 9 ○	
CTRL+1-TB5.8:10	G3110	○ 10 ○	
CTRL+1-TB5.8:11	G3111	○ 11 ○	
CTRL+1-TB5.8:12	G3128	○ 12 ○	
CTRL+1-TB5.8:13	G3132	○ 13 ○	
CTRL+1-TB5.8:14	G3133	○ 14 ○	
CTRL+1-TB5.8:15	154	○ 15 ○	
CTRL+1-TB5.8:16	155	○ 16 ○	

SWGR. SECTION 9 (UTILITY 2 / GEN 4)

		-TB5.1	
DESTINATION	WIRE #		
12GA WIRE CTRL+1-TB5.9:1	24	○ 1 ○	
12GA WIRE CTRL+1-TB5.9:2	25	○ 2 ○	
CTRL+1-TB5.9:3	G4GND	○ 3 ○	
CTRL+1-TB5.9:4	G4070	○ 4 ○	
CTRL+1-TB5.9:5	G4003	○ 5 ○	
CTRL+1-TB5.9:6	G4004	○ 6 ○	
CTRL+1-TB5.9:7	G4080	○ 7 ○	
CTRL+1-TB5.9:8	G4078	○ 8 ○	
CTRL+1-TB5.9:9	G4630	○ 9 ○	
CTRL+1-TB5.9:10	G4107	○ 10 ○	
CTRL+1-TB5.9:11	G4109	○ 11 ○	
CTRL+1-TB5.9:12	G4110	○ 12 ○	
CTRL+1-TB5.9:13	G4111	○ 13 ○	
CTRL+1-TB5.9:14	609	○ 14 ○	
CTRL+1-TB5.9:15	610	○ 15 ○	
CTRL+1-TB5.9:16	611	○ 16 ○	
CTRL+1-TB5.9:17	612	○ 17 ○	
CTRL+1-TB5.9:18	U2434	○ 18 ○	
CTRL+1-TB5.9:19	641	○ 19 ○	
CTRL+1-TB5.9:20	678	○ 20 ○	
CTRL+1-TB5.9:21	682	○ 21 ○	
CTRL+1-TB5.9:22	156	○ 22 ○	
CTRL+1-TB5.9:23	157	○ 23 ○	

SWGR. SECTION 10 (FEEDERS)

		-TB5.1	
DESTINATION	WIRE #		
12GA WIRE CTRL+1-TB5.10:1	24	○ 1 ○	
12GA WIRE CTRL+1-TB5.10:2	25	○ 2 ○	
CTRL+1-TB5.10:3	G4132	○ 3 ○	
CTRL+1-TB5.10:4	G4139	○ 4 ○	

NOTES:

- 1.) ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

CAGE CLAMP TERMINAL BLOCKS:

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.			
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	ITEM	TITLE WIRING DIAGRAM LINEUP CONNECT (SWGR)	
A	1-27-10	FOR APPROVAL [89286]	PJL	-	-		
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	SCALE: DWG. NO. SHEET 166 OF 179	
C	7-21-10	AS BUILT [90178]	RTR	RTR	1-5-10		
				CHECKED	RMB	1-5-10	DWC NO. SGP-1350
				APPROVED	RMB	1-5-10	
SECTION/FUNCTION CI				PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			

**CONTROLS SECTION (ES-90646)**

**-TB5.2**

DESTINATION	WIRE #	
12GA WIRE SWGR+2-TB5.1:1	24	○ 1 ○
12GA WIRE SWGR+2-TB5.1:2	25	○ 2 ○
SWGR+2-TB5.1:3	G1132	○ 3 ○
SWGR+2-TB5.1:4	G1139	○ 4 ○
SWGR+2-TB5.1:5	G1142	○ 5 ○
SWGR+2-TB5.1:6	G1143	○ 6 ○

**-TB5.6**

DESTINATION	WIRE #	
12GA WIRE SWGR+6-TB5.1:1	24	○ 1 ○
12GA WIRE SWGR+6-TB5.1:2	25	○ 2 ○
SWGR+6-TB5.1:3	663	○ 3 ○
SWGR+6-TB5.1:4	664	○ 4 ○
SWGR+6-TB5.1:5	665	○ 5 ○
SWGR+6-TB5.1:6	666	○ 6 ○
SWGR+6-TB5.1:7	T101	○ 7 ○
SWGR+6-TB5.1:8	690	○ 8 ○
SWGR+6-TB5.1:9	684	○ 9 ○
SWGR+6-TB5.1:10	686	○ 10 ○

**-TB5.9**

DESTINATION	WIRE #	
12GA WIRE SWGR+9-TB5.1:1	24	○ 1 ○
12GA WIRE SWGR+9-TB5.1:2	25	○ 2 ○
SWGR+9-TB5.1:3	G4GND	○ 3 ○
SWGR+9-TB5.1:4	G4070	○ 4 ○
SWGR+9-TB5.1:5	G4003	○ 5 ○
SWGR+9-TB5.1:6	G4004	○ 6 ○
SWGR+9-TB5.1:7	G4080	○ 7 ○
SWGR+9-TB5.1:8	G4078	○ 8 ○
SWGR+9-TB5.1:9	G4630	○ 9 ○
SWGR+9-TB5.1:10	G4107	○ 10 ○
SWGR+9-TB5.1:11	G4109	○ 11 ○
SWGR+9-TB5.1:12	G4110	○ 12 ○
SWGR+9-TB5.1:13	G4111	○ 13 ○
SWGR+9-TB5.1:14	609	○ 14 ○
SWGR+9-TB5.1:15	610	○ 15 ○
SWGR+9-TB5.1:16	611	○ 16 ○
SWGR+9-TB5.1:17	612	○ 17 ○
SWGR+9-TB5.1:18	U2434	○ 18 ○
SWGR+9-TB5.1:19	641	○ 19 ○
SWGR+9-TB5.1:20	678	○ 20 ○
SWGR+9-TB5.1:21	682	○ 21 ○
SWGR+9-TB5.1:22	156	○ 22 ○
SWGR+9-TB5.1:23	157	○ 23 ○

**-TB5.3**

DESTINATION	WIRE #	
12GA WIRE SWGR+3-TB5.1:1	24	○ 1 ○
12GA WIRE SWGR+3-TB5.1:2	25	○ 2 ○
SWGR+3-TB5.1:3	G1GND	○ 3 ○
SWGR+3-TB5.1:4	G1070	○ 4 ○
SWGR+3-TB5.1:5	G1003	○ 5 ○
SWGR+3-TB5.1:6	G1004	○ 6 ○
SWGR+3-TB5.1:7	G1080	○ 7 ○
SWGR+3-TB5.1:8	G1078	○ 8 ○
SWGR+3-TB5.1:9	G1630	○ 9 ○
SWGR+3-TB5.1:10	G1107	○ 10 ○
SWGR+3-TB5.1:11	G1109	○ 11 ○
SWGR+3-TB5.1:12	G1110	○ 12 ○
SWGR+3-TB5.1:13	G1111	○ 13 ○
SWGR+3-TB5.1:14	563	○ 14 ○
SWGR+3-TB5.1:15	564	○ 15 ○
SWGR+3-TB5.1:16	565	○ 16 ○
SWGR+3-TB5.1:17	566	○ 17 ○
SWGR+3-TB5.1:18	U1434	○ 18 ○
SWGR+3-TB5.1:19	568	○ 19 ○
SWGR+3-TB5.1:20	676	○ 20 ○
SWGR+3-TB5.1:21	680	○ 21 ○
SWGR+3-TB5.1:22	150	○ 22 ○
SWGR+3-TB5.1:23	151	○ 23 ○

**-TB5.8**

DESTINATION	WIRE #	
SWGR+8-TB5.1:1	G3GND	○ 1 ○
SWGR+8-TB5.1:2	G3070	○ 2 ○
SWGR+8-TB5.1:3	G3003	○ 3 ○
SWGR+8-TB5.1:4	G3004	○ 4 ○
SWGR+8-TB5.1:5	G3080	○ 5 ○
SWGR+8-TB5.1:6	G3078	○ 6 ○
SWGR+8-TB5.1:7	G3630	○ 7 ○
SWGR+8-TB5.1:8	G3107	○ 8 ○
SWGR+8-TB5.1:9	G3109	○ 9 ○
SWGR+8-TB5.1:10	G3110	○ 10 ○
SWGR+8-TB5.1:11	G3111	○ 11 ○
SWGR+8-TB5.1:12	G3128	○ 12 ○
SWGR+8-TB5.1:13	G3132	○ 13 ○
SWGR+8-TB5.1:14	G3133	○ 14 ○
SWGR+8-TB5.1:15	154	○ 15 ○
SWGR+8-TB5.1:16	155	○ 16 ○

**-TB5.10**

DESTINATION	WIRE #	
12GA WIRE SWGR+10-TB5.1:1	24	○ 1 ○
12GA WIRE SWGR+10-TB5.1:2	25	○ 2 ○
SWGR+10-TB5.1:3	G4132	○ 3 ○
SWGR+10-TB5.1:4	G4139	○ 4 ○

**-TB5.4**

DESTINATION	WIRE #	
SWGR+4-TB5.1:1	G2GND	○ 1 ○
SWGR+4-TB5.1:2	G2070	○ 2 ○
SWGR+4-TB5.1:3	G2003	○ 3 ○
SWGR+4-TB5.1:4	G2004	○ 4 ○
SWGR+4-TB5.1:5	G2080	○ 5 ○
SWGR+4-TB5.1:6	G2078	○ 6 ○
SWGR+4-TB5.1:7	G2630	○ 7 ○
SWGR+4-TB5.1:8	G2107	○ 8 ○
SWGR+4-TB5.1:9	G2109	○ 9 ○
SWGR+4-TB5.1:10	G2110	○ 10 ○
SWGR+4-TB5.1:11	G2111	○ 11 ○
SWGR+4-TB5.1:12	G2128	○ 12 ○
SWGR+4-TB5.1:13	G2132	○ 13 ○
SWGR+4-TB5.1:14	G2133	○ 14 ○
SWGR+4-TB5.1:15	152	○ 15 ○
SWGR+4-TB5.1:16	153	○ 16 ○

**NOTES:**  
 1.) ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- CAGE CLAMP TERMINAL BLOCKS:**
- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
  - INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
  - REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

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REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.: - ITEM -	TITLE: WIRING DIAGRAM LINEUP CONNECT (CTRL)
A	1-27-10	FOR APPROVAL [89286]	PJL	APPROVALS	DATE
B	5-14-10	FOR MANUFACTURING [89803]	RTR	DRAWN	1-5-10
C	7-21-10	AS BUILT [90178]	RTR	CHECKED	RMB 1-5-10
				APPROVED	RMB 1-5-10
SECTION/FUNCTION	CI	PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED			SCALE: CAD NO. SHEET: E 167 OF 179 DWG. NO. SGP-1350 D



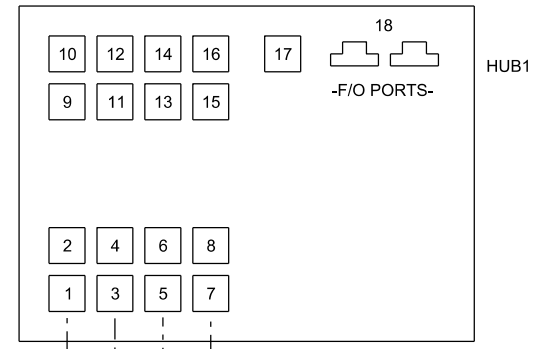
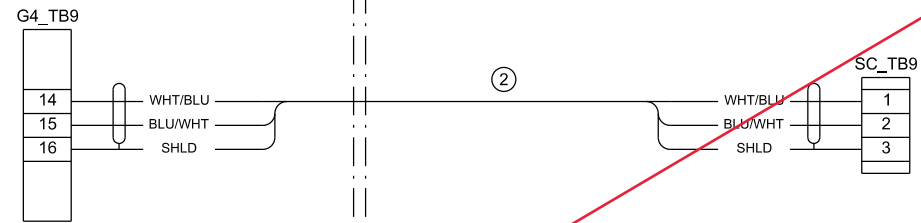
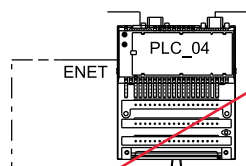
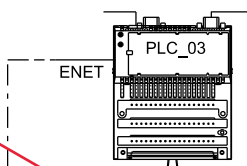
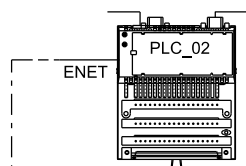
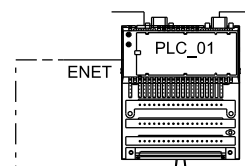
SWGR. SECTION 3 (GEN 1)

SWGR. SECTION 4 (GEN 2)

SWGR. SECTION 8 (GEN 3)

SWGR. SECTION 9 (GEN 4)

SYSTEM CONTROLS SECTION



①  
①  
①  
①

See new SCADA system architecture

- NOTES:
- POWER CONNECTIONS NOT SHOWN.
  - UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
  - SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
  - ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① CAT-5 ETHERNET CABLE
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG

- CAGE CLAMP TERMINAL BLOCKS:
- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
  - INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
  - REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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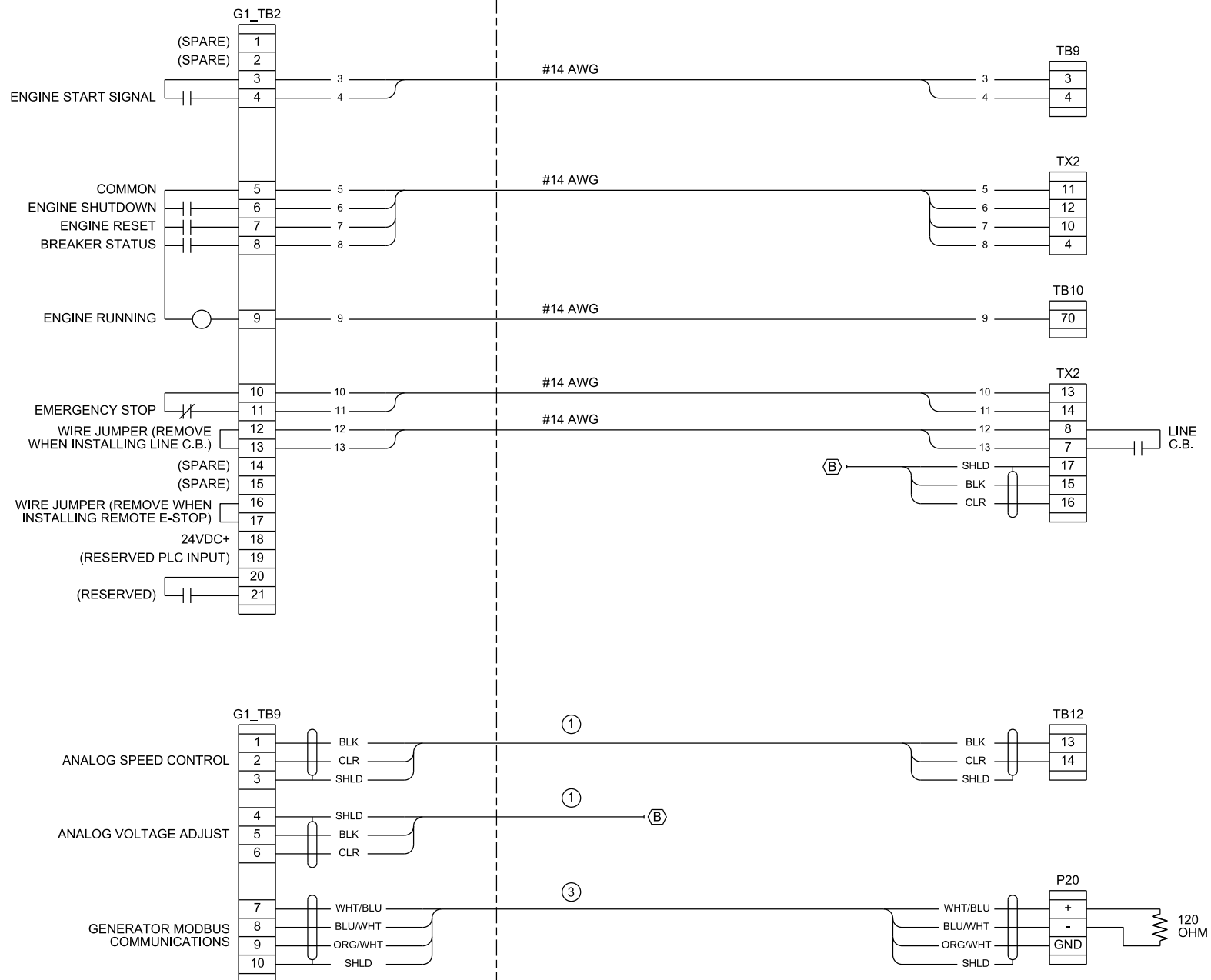
TITLE: WIRING DIAGRAM LINEUP CONNECT (COMM)

SCALE: CAD NO. SHEET: E 168 OF 179

PLOTTED: DWG. NO. SGP-1350 D

**SWITCHGEAR - SECTION 3**

**GENERATOR 1 (NEW)**



**NOTES:**

1. POWER CONNECTIONS NOT SHOWN.
2. UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
C1

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

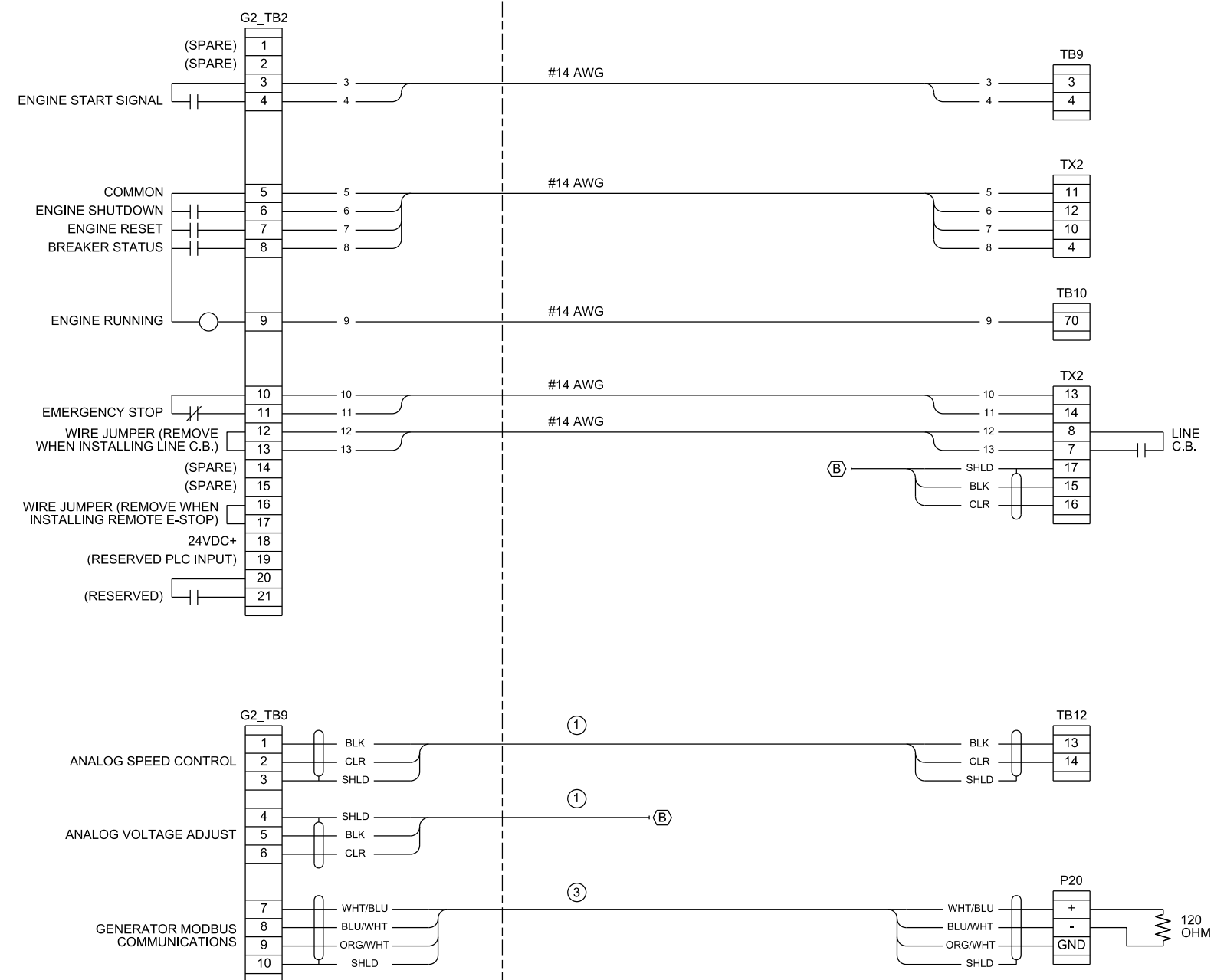
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**CUSTOMER INTERCONNECT  
GEN 1 (NEW)**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET 169 OF 179  
PLOTTED: \_\_\_\_\_ DWG. NO.: SGP-1350

**SWITCHGEAR - SECTION 4**

**GENERATOR 2 (EXISTING)**



**NOTES:**

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
C1

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.:	SGP-1350	
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
ES NO.:	-	ITEM -
APPROVALS	DATE	
DRAWN RTR	1-5-10	
CHECKED RMB	1-5-10	
APPROVED RMB	1-5-10	

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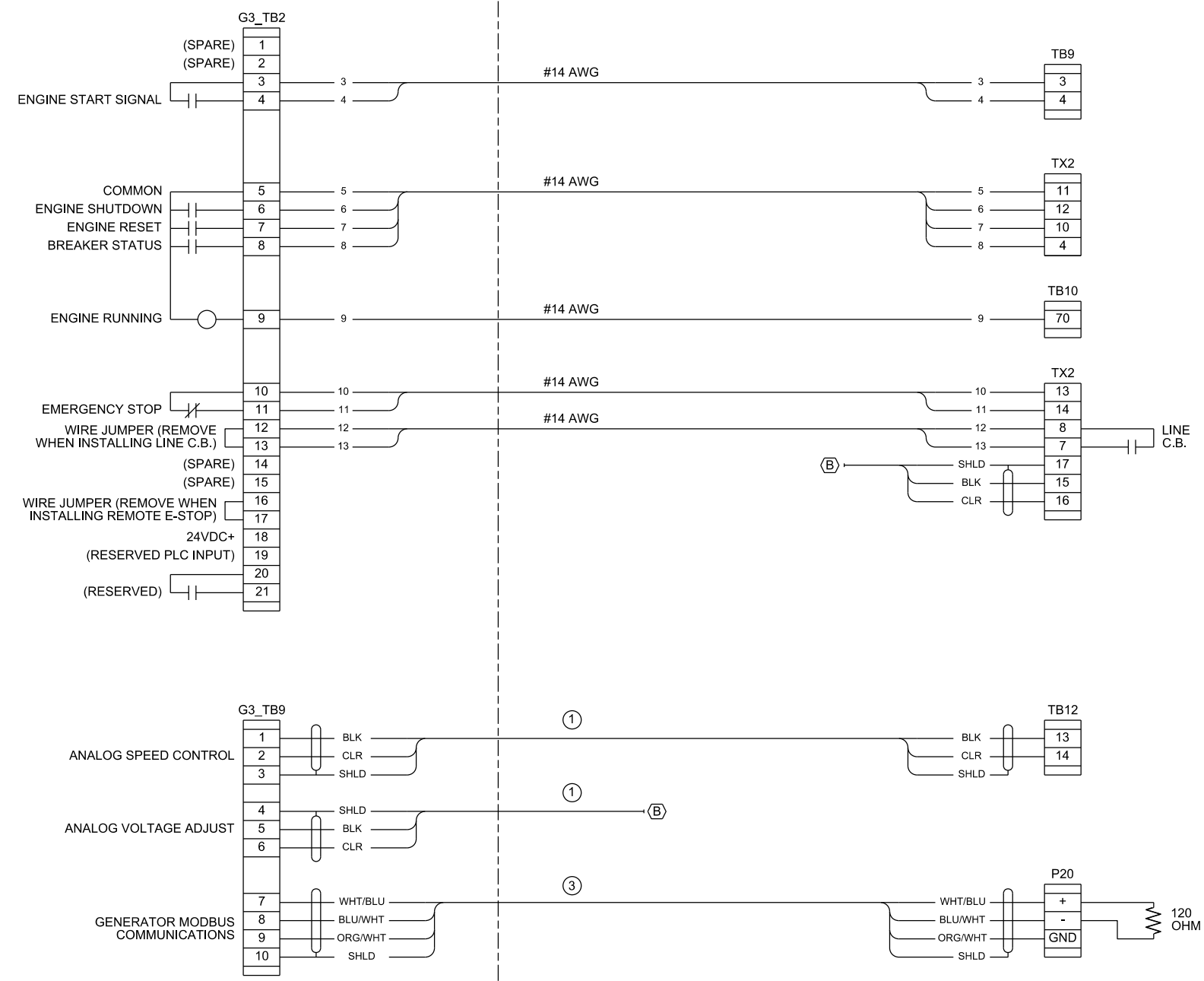
**CUSTOMER INTERCONNECT  
GEN 2 (EXISTING)**

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET E 170 OF 179  
DWG. NO. SGP-1350

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

**SWITCHGEAR - SECTION 8**

**GENERATOR 3 (EXISTING)**



**NOTES:**

1. POWER CONNECTIONS NOT SHOWN.
2. UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
CI

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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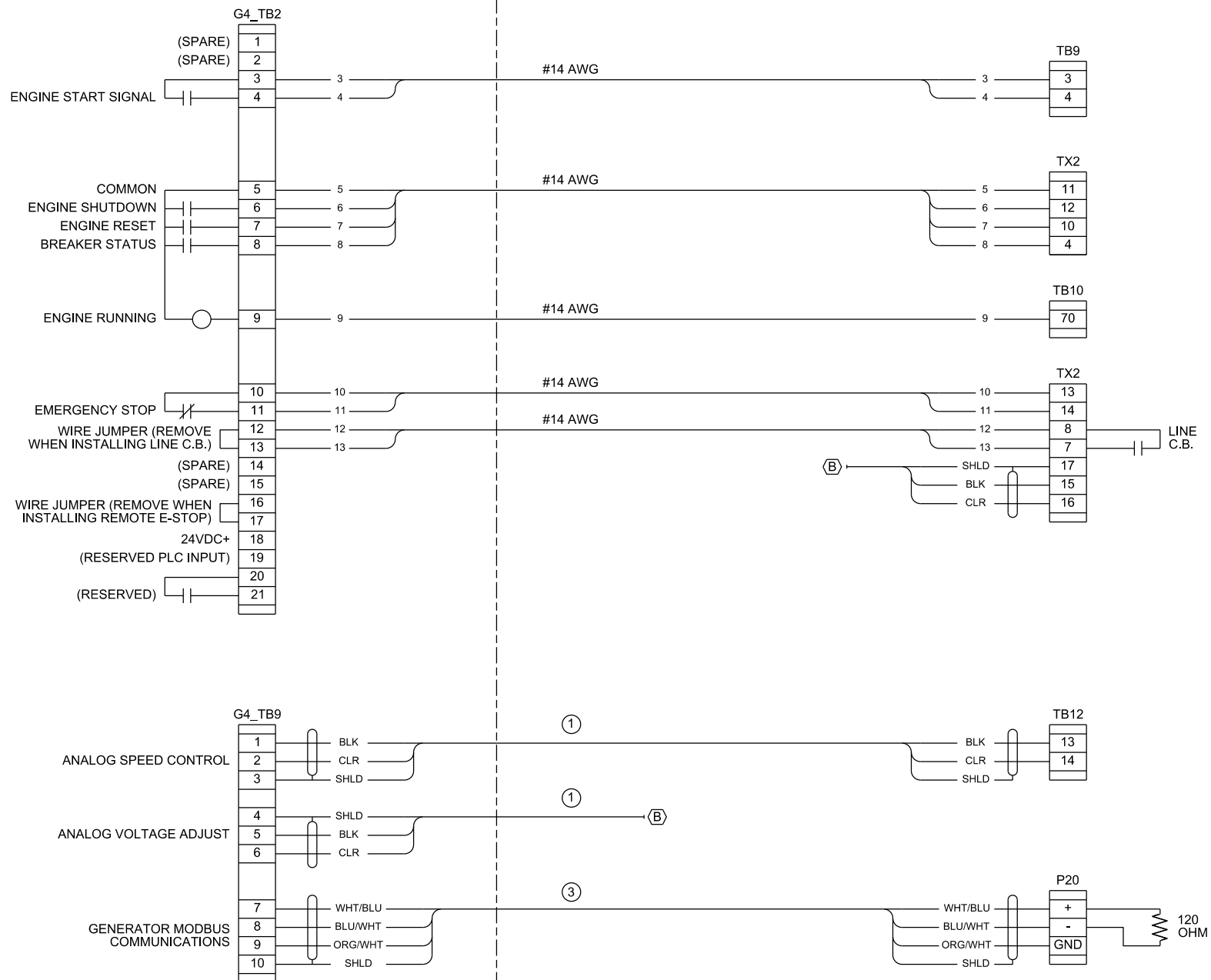
**CUSTOMER INTERCONNECT  
GEN 3 (EXISTING)**

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET: 171 OF 179  
PLOTTED: \_\_\_\_\_ DWG. NO. SGP-1350

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

**SWITCHGEAR - SECTION 9**

**GENERATOR 4 (NEW)**



**NOTES:**

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
C1

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

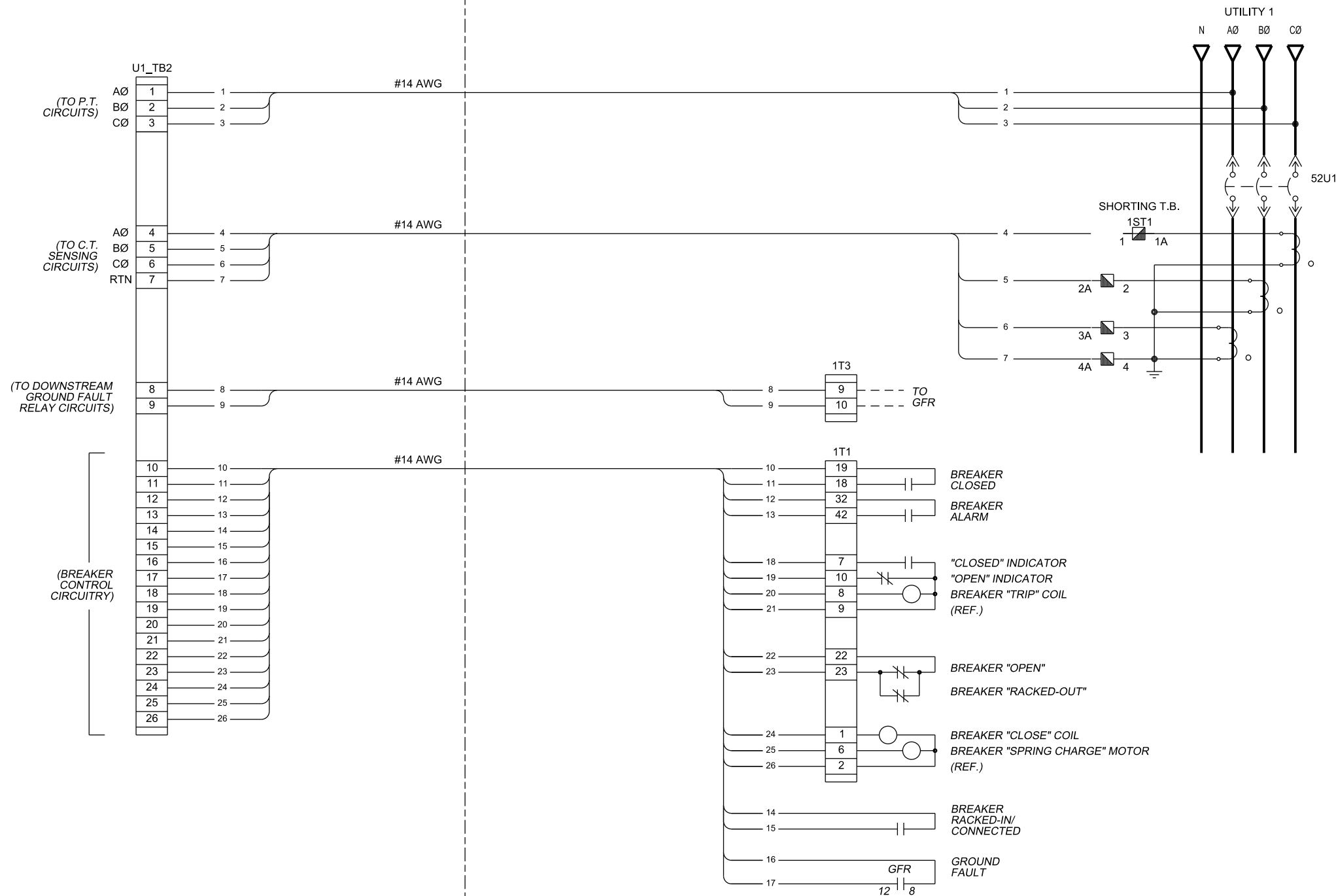
PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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**CUSTOMER INTERCONNECT  
GEN 4 (NEW)**

SCALE: \_\_\_\_\_ CAD NO. \_\_\_\_\_ SHEET 172 OF 179  
PLOTTED: \_\_\_\_\_ DWG. NO. SGP-1350 | D

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED



NOTES:

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- BELDEN #8760 - 2 CONDUCTOR #18 AWG
- BELDEN #9841 - 2 CONDUCTOR #24 AWG
- BELDEN #9842 - 4 CONDUCTOR #24 AWG

CAGE CLAMP TERMINAL BLOCKS:

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

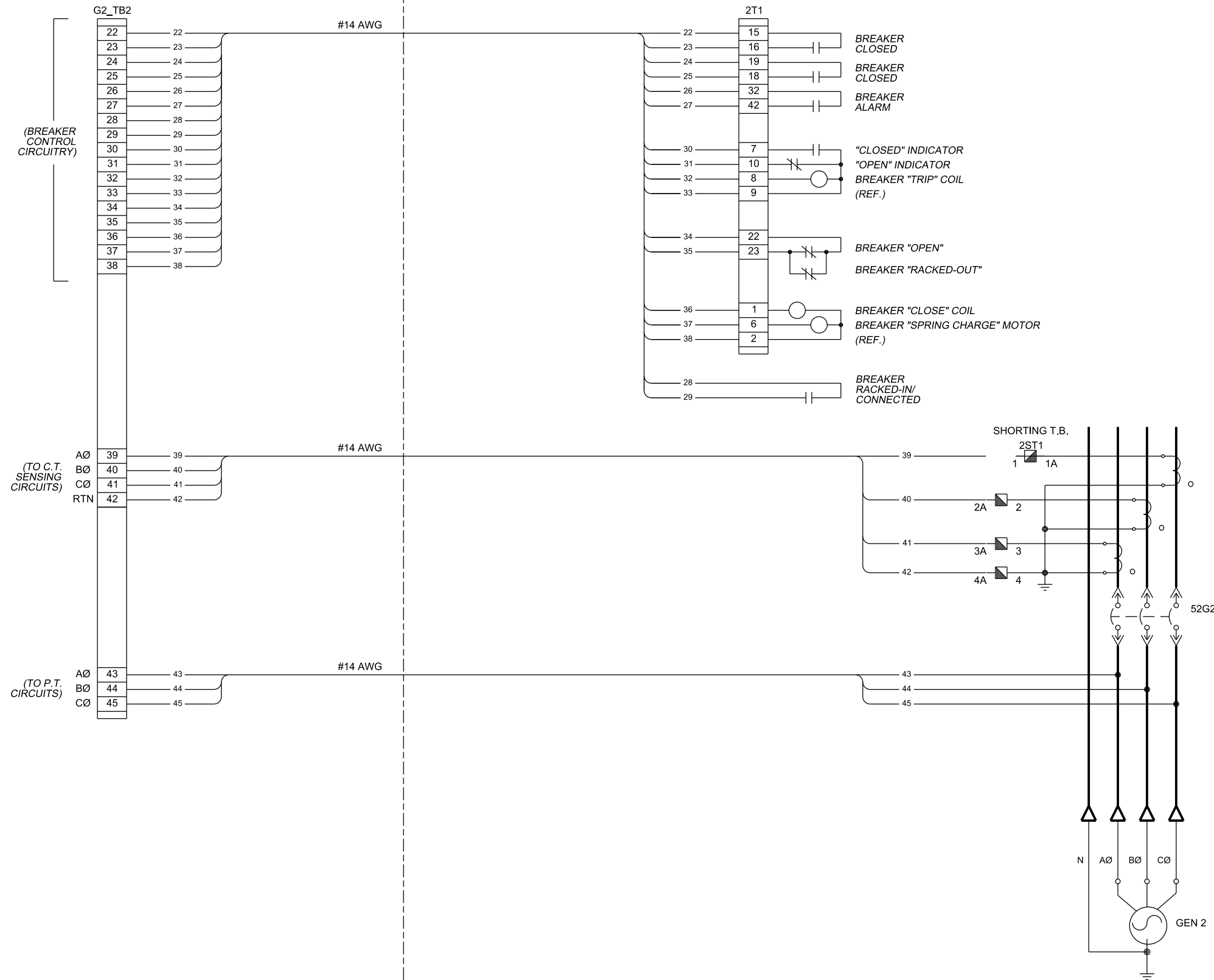
PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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TITLE: CUSTOMER INTERCONNECT UTILITY 1 (EXISTING)

SCALE: CAD NO. SHEET: E 173 OF 179

PLOTTED: DWG. NO. SGP-1350 | D



NOTES:

1. POWER CONNECTIONS NOT SHOWN.
2. UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

CAGE CLAMP TERMINAL BLOCKS:

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.:	SGP-1350	
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.	
ES NO.:	-	ITEM -
DRAWN	RTR	DATE 1-5-10
CHECKED	RMB	DATE 1-5-10
APPROVED	RMB	DATE 1-5-10

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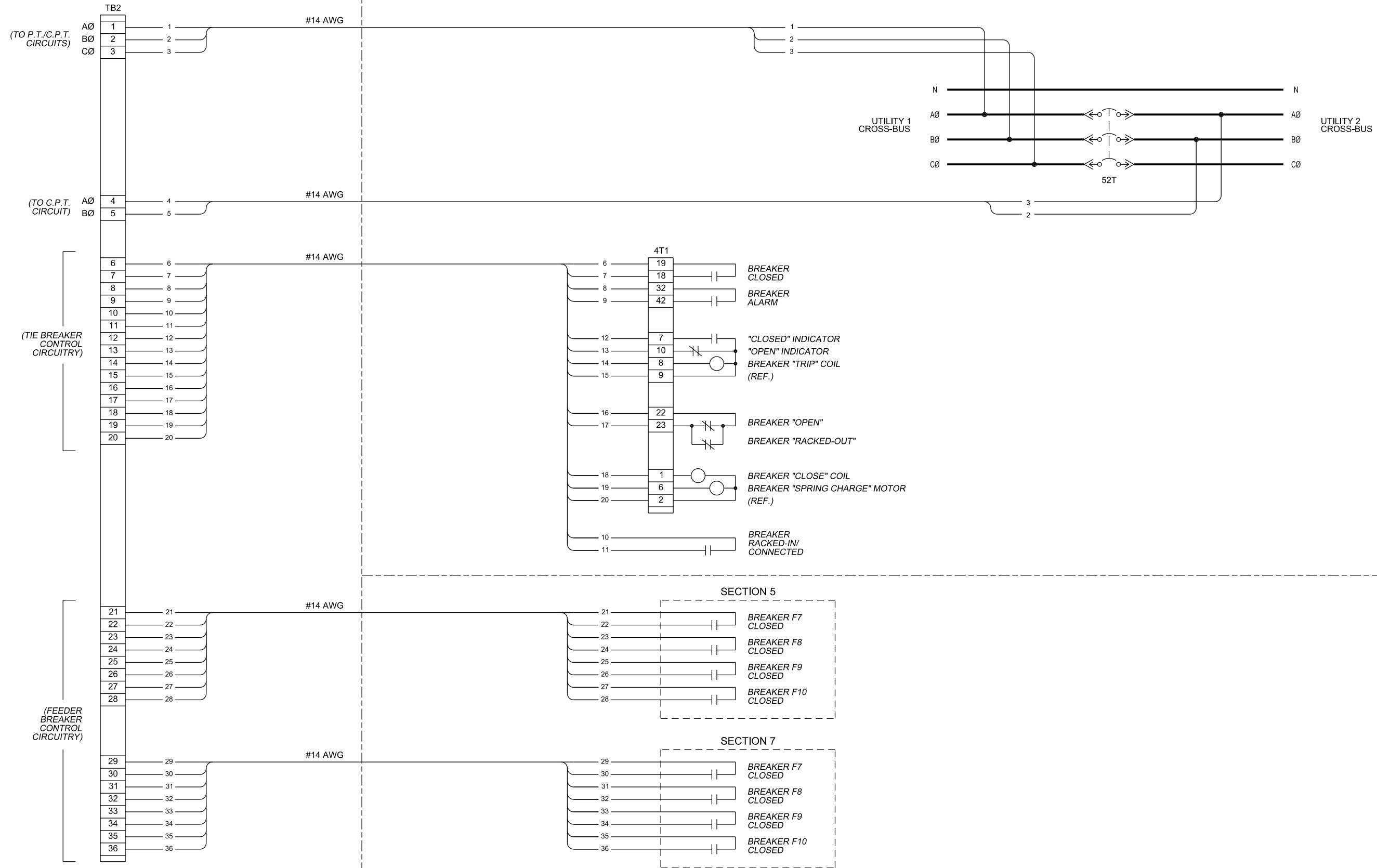
TITLE: CUSTOMER INTERCONNECT GEN 2 BREAKER (EXISTING)

SCALE: CAD NO. SHEET 174 OF 179

PLOTTED: DWG. NO. SGP-1350 | D

**SWITCHGEAR - RIGHT SIDE PANEL (SECTION 6)**

**TIE/FEEDER BREAKER CONTROLS - SECTION 6 (EXISTING)**



**NOTES:**

1. POWER CONNECTIONS NOT SHOWN.
2. UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR

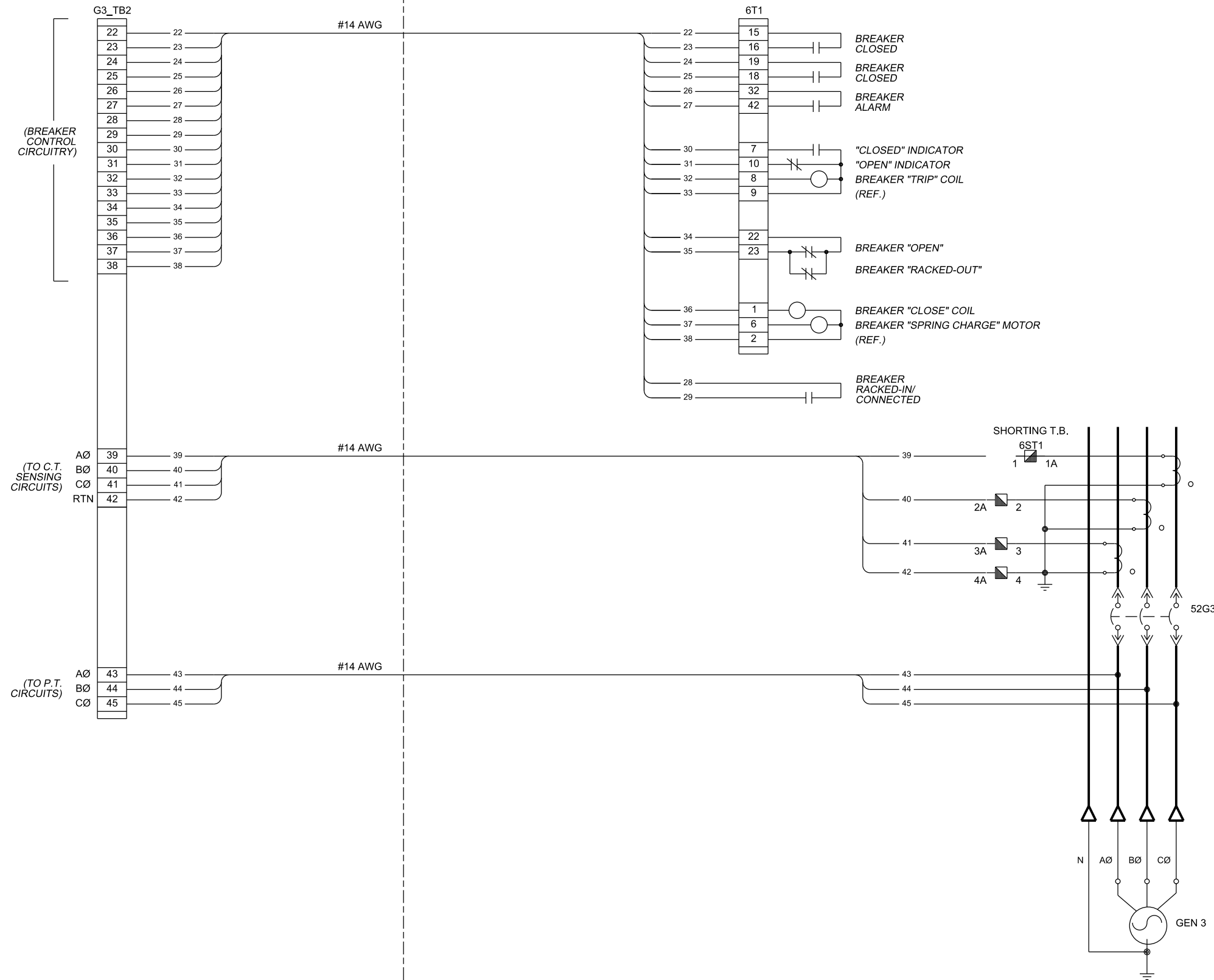
PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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**CUSTOMER INTERCONNECT TIE/FEEDERS (EXISTING)**

SCALE: DWG. NO. SHEET 175 OF 179  
 SGP-1350 | D





NOTES:

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- BELDEN #8760 - 2 CONDUCTOR #18 AWG
- BELDEN #9841 - 2 CONDUCTOR #24 AWG
- BELDEN #9842 - 4 CONDUCTOR #24 AWG

CAGE CLAMP TERMINAL BLOCKS:

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

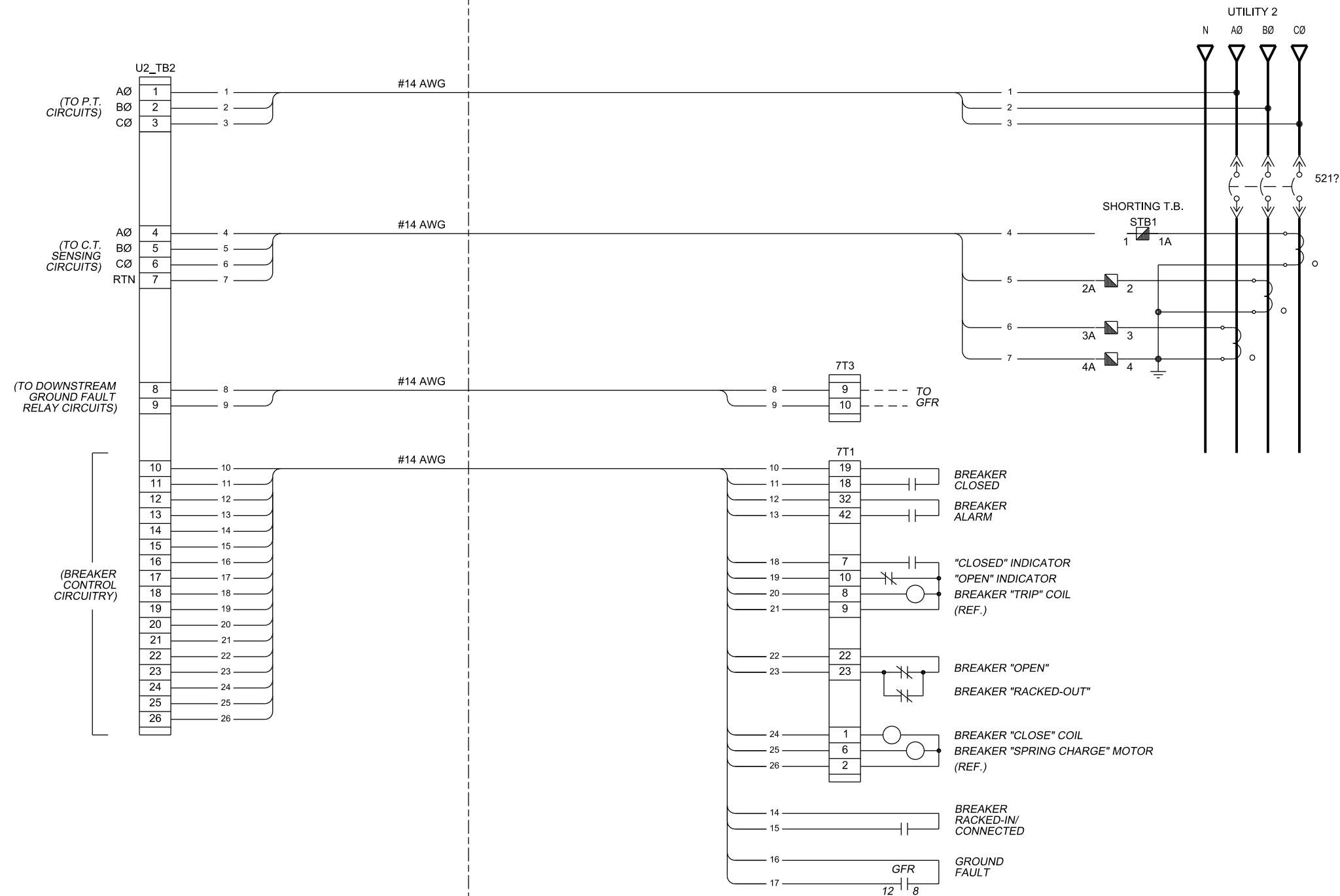
PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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TITLE: CUSTOMER INTERCONNECT GEN 3 BREAKER (EXISTING)

SCALE: CAD NO. SHEET: E 176 OF 179

PLOTTED: DWG. NO. SGP-1350 | D



NOTES:

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- BELDEN #8760 - 2 CONDUCTOR #18 AWG
- BELDEN #9841 - 2 CONDUCTOR #24 AWG
- BELDEN #9842 - 4 CONDUCTOR #24 AWG

CAGE CLAMP TERMINAL BLOCKS:

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
C	7-21-10	AS BUILT [90178]	RTR
D	3-28-11	REVISED FOR FIELD MODIFICATIONS [91400]	CLM

PROJECT NO.: SGP-1350	
PROJECT NAME: PANAMA CITY BEACH AWT EXP.	
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

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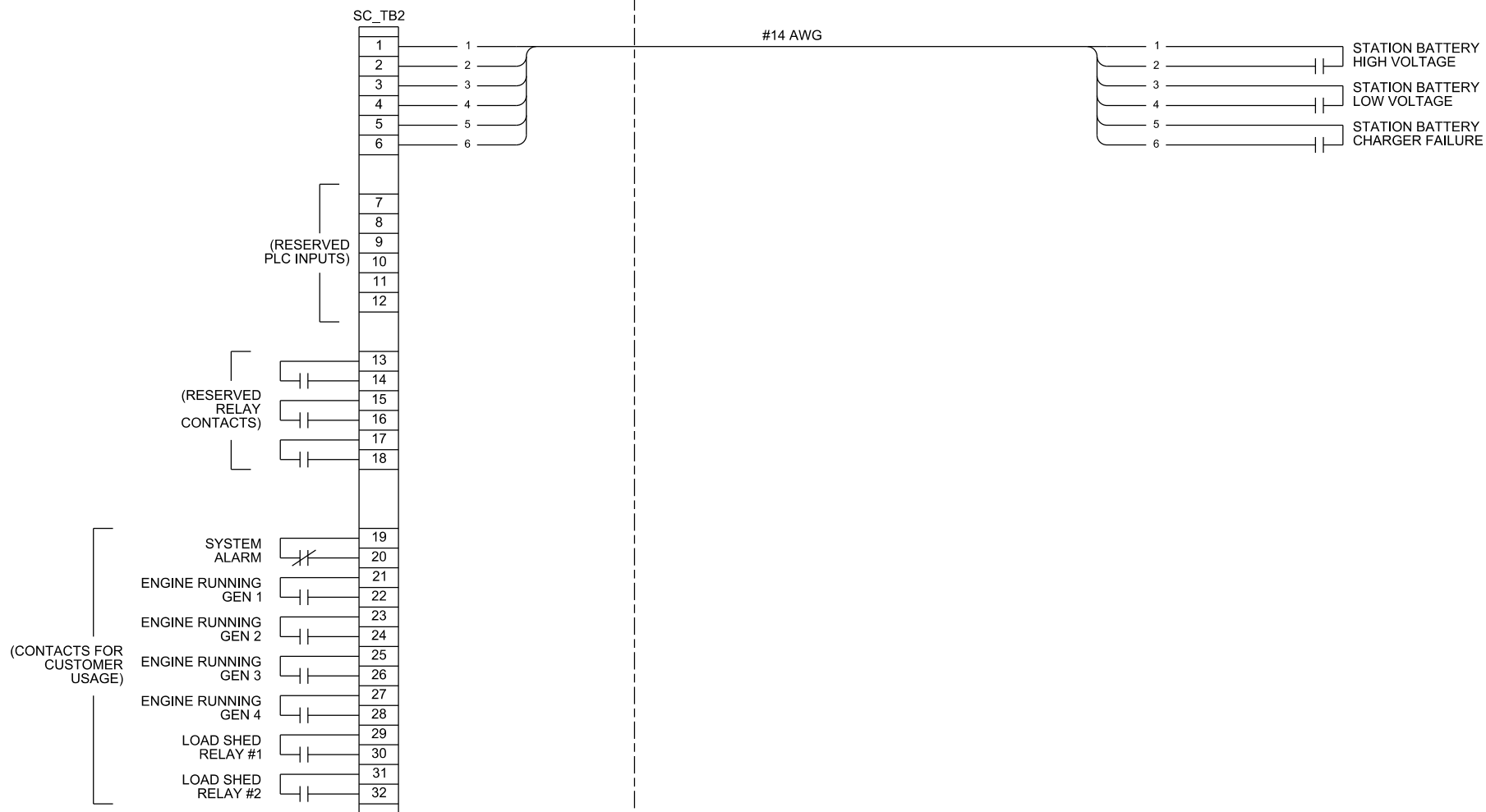
TITLE: CUSTOMER INTERCONNECT UTILITY 2 (EXISTING)

SCALE: CAD NO. SHEET: E 177 OF 179

PRINTED SGP-1350 | D

**SYSTEM CONTROLS SECTION**

**OTHER EQUIPMENT**



**NOTES:**

- POWER CONNECTIONS NOT SHOWN.
- UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
- SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
- ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- BELDEN #8760 - 2 CONDUCTOR #18 AWG
- BELDEN #9841 - 2 CONDUCTOR #24 AWG
- BELDEN #9842 - 4 CONDUCTOR #24 AWG

**CAGE CLAMP TERMINAL BLOCKS:**

- INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
- INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
- REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

CAE GENERATED DRAWING				PROJECT NO.:	SGP-1350	
REV	DATE	REVISION	BY	PROJECT NAME: PANAMA CITY BEACH AWT EXP.		
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR	ES NO.:	-	
A	1-27-10	FOR APPROVAL [89286]	PJL	ITEM	-	
B	5-14-10	FOR MANUFACTURING [89803]	RTR	APPROVALS	DATE	
C	7-21-10	AS BUILT [90178]	RTR	DRAWN	RTR	1-5-10
				CHECKED	RMB	1-5-10
				APPROVED	RMB	1-5-10

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**CUSTOMER INTERCONNECT SYSTEM CONTROL**

SCALE: \_\_\_\_\_ CAD NO.: \_\_\_\_\_ SHEET: 178 of 179  
DWG. NO. SGP-1350

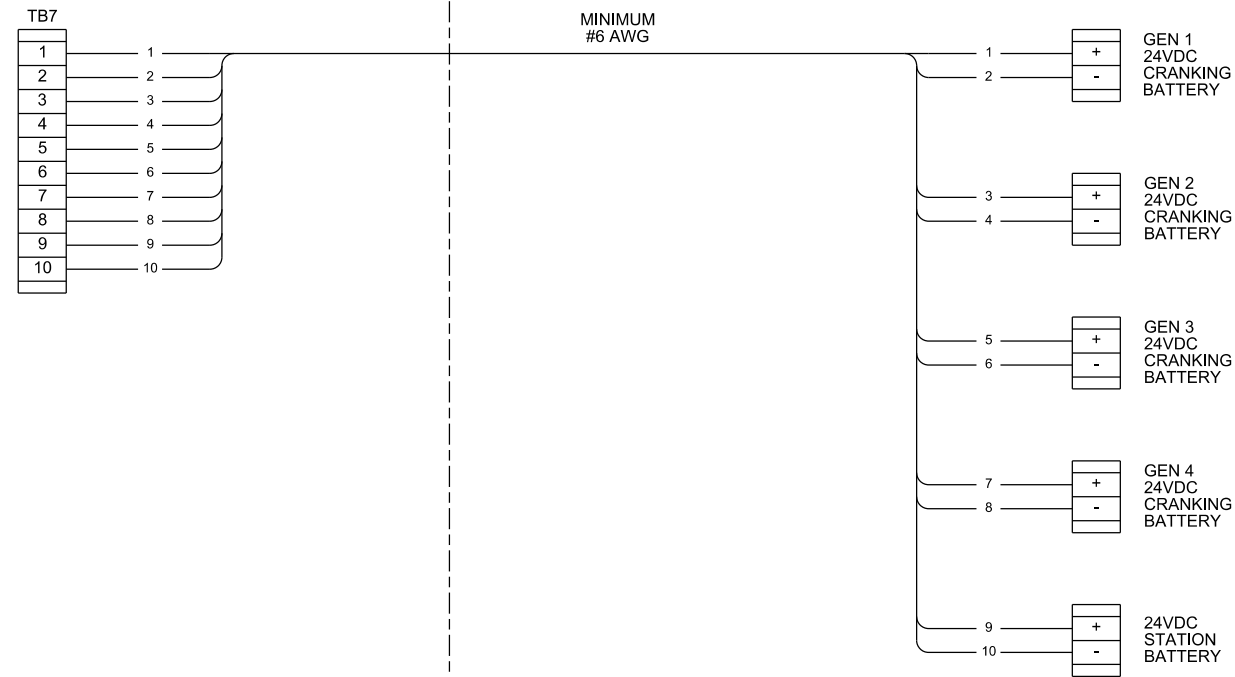
SECTION/FUNCTION  
CI

PRODUCTION RELEASED - UNCONTROLLED WHEN PRINTED

SGP-1350 | D

SYSTEM CONTROLS SECTION

OTHER EQUIPMENT



NOTES:

1. POWER CONNECTIONS NOT SHOWN.
2. UNLESS OTHERWISE NOTED, CONTACT RATINGS ARE 8A/24VDC.
3. SEE GENERATOR INSTALLATION GUIDE FOR COMPLETE GENERATOR CONNECTION INFORMATION.
4. ALL CONTROL WIRES TO BE #14 AWG, 600V 90° STRANDED UNLESS OTHERWISE NOTED.

- ① BELDEN #8760 - 2 CONDUCTOR #18 AWG
- ② BELDEN #9841 - 2 CONDUCTOR #24 AWG
- ③ BELDEN #9842 - 4 CONDUCTOR #24 AWG

CAGE CLAMP TERMINAL BLOCKS:

1. INSERT SCREWDRIVER INTO SQUARE OPENING TO OPEN SPRING.
2. INSERT STRIPPED WIRE INTO CORRESPONDING ROUND OPENING.
3. REMOVE SCREWDRIVER TO RELEASE SPRING AND SECURE WIRE.

SECTION/FUNCTION  
CI

CAE GENERATED DRAWING			
REV	DATE	REVISION	BY
-	1-5-10	NEW DRAWING - FOR APPROVAL [89056]	RTR
A	1-27-10	FOR APPROVAL [89286]	PJL
B	5-14-10	FOR MANUFACTURING [89803]	RTR
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PROJECT NO.:	SGP-1350
PROJECT NAME:	PANAMA CITY BEACH AWT EXP.
ES NO.:	ITEM
APPROVALS	DATE
DRAWN RTR	1-5-10
CHECKED RMB	1-5-10
APPROVED RMB	1-5-10

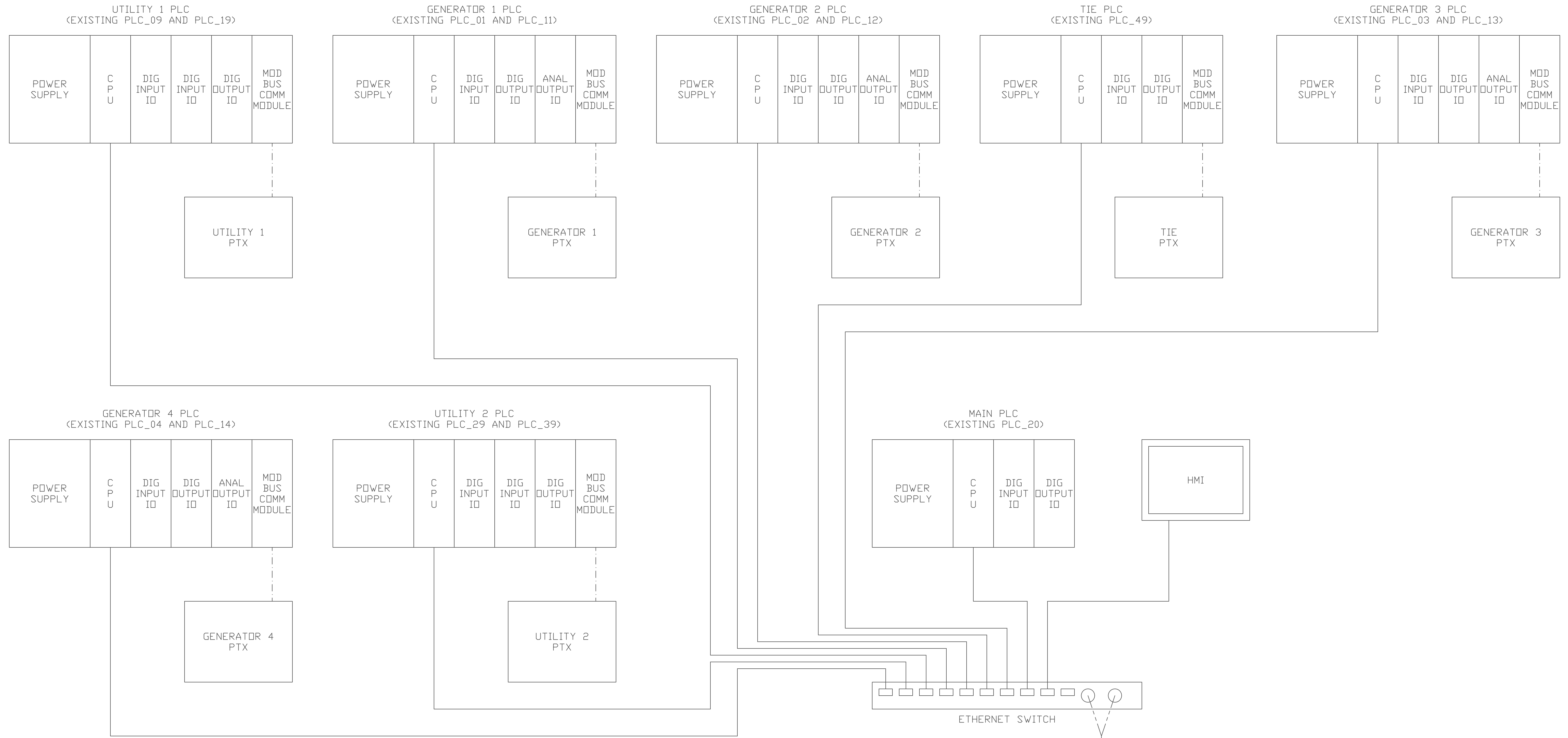
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TITLE: CUSTOMER INTERCONNECT DC POWER DISTRIBUTION

SCALE: DWG. NO. SHEET: E 179 of 179

PRINTED SGP-1350 | D

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\_\_\_\_\_ ETHERNET IP COMMUNICATIONS (COPPER)  
 - - - - - ETHERNET IP COMMUNICATIONS (FIBER OPTIC)  
 - - - - - MODBUS COMMUNICATIONS

FIBER OPTIC CABLE TO EXISTING PLANT SCADA SYSTEM

NO.	DATE	DESCRIPTION	REVISIONS

**INFRASTRUCTURE SOLUTION SERVICES**  
 7185 Murrell Road, Suite 101  
 Melbourne, Florida 32940  
 Phone: (321) 622-4646

**LEGEND AND NOTES**  
 EMERGENCY GENERATOR AND CONTROL SYSTEM UPGRADE  
 PANAMA CITY BEACH

PROJECT NO.: PCB001	PROJ. MGR.: MN
DATE: 08/23/2018	DRWN. BY: GY
SCALE: N.T.S.	CHKD. BY: --
DRAWING NO.: PCB001	
SHEET NO.: E-00	