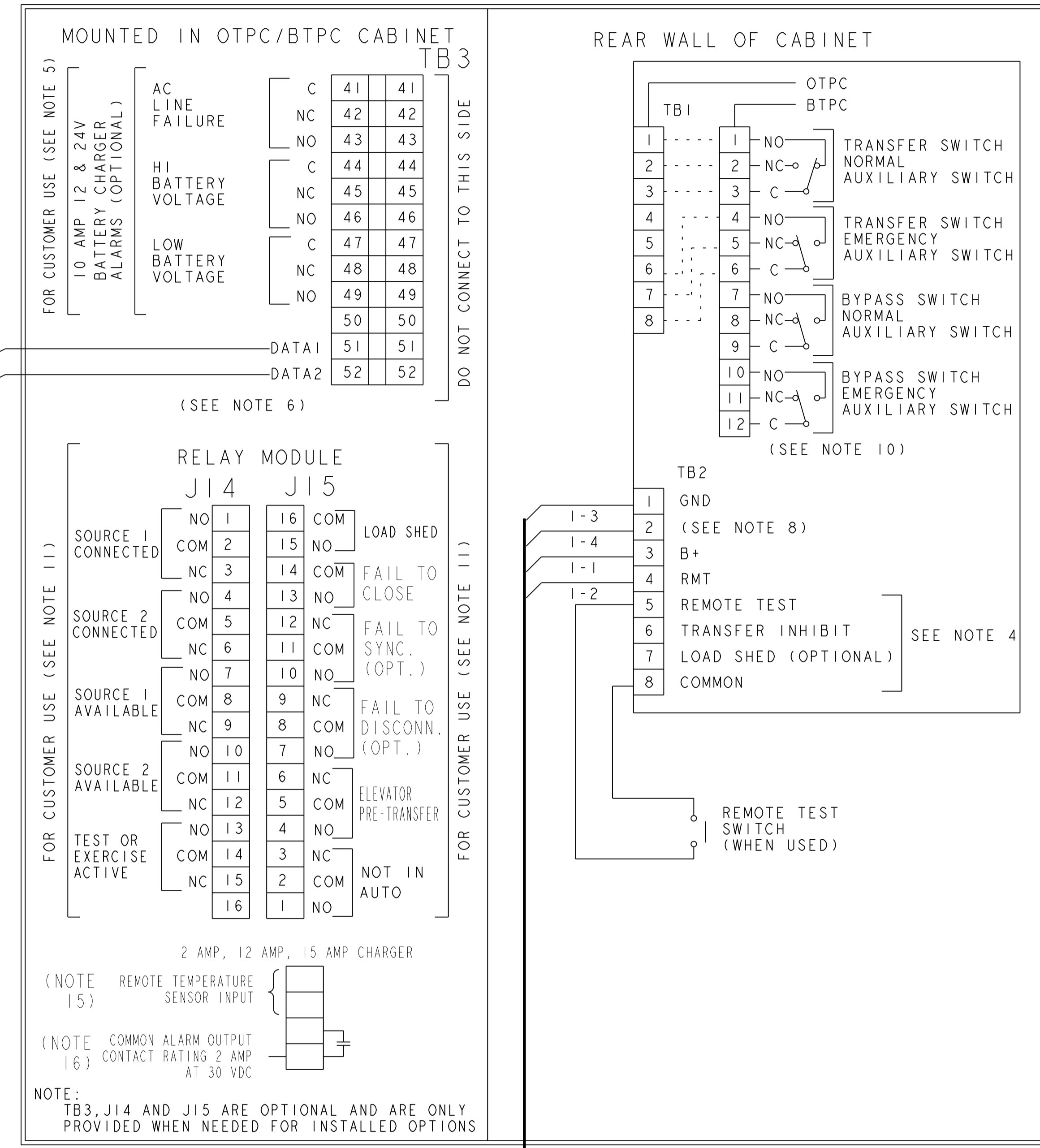
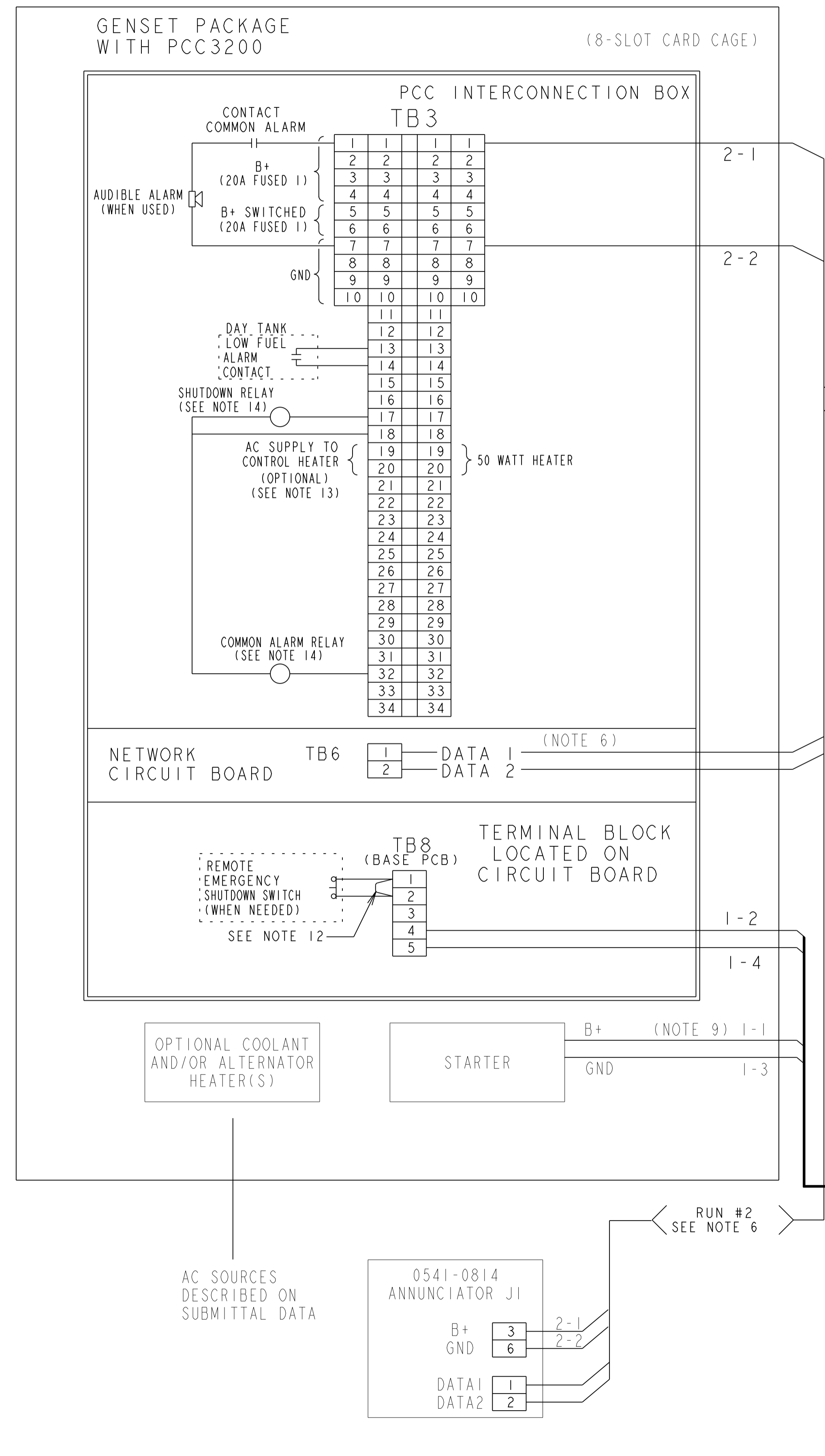


- NOTES:
1. WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 2. IF OTPC NETWORK CARD IS USED, YOU MUST CONNECT B+ OR EXTERNAL BATTERY-BACKED POWER TO OTPC/BTPC DIGITAL BOARD AT P27.21 (B+) AND P27.22 (GND).
 3. FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 4. CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 5. CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 6. REFER TO CUMMINS 900-0529 POWERCOMMAND NETWORK INSTALLATION & OPERATION MANUAL FOR WIRING INSTRUCTIONS, WIRE SIZE, AND LENGTH. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO NETWORK. PART # 0334-1350 OR EQUAL.
 7. INPUTS FOR CUSTOMER FAULTS. GROUNDED SIGNAL REQUIRED TO ACTIVATE INPUT (MAX 50 MA.)
 8. NO JUMPER IS REQUIRED BETWEEN TB2-1 & TB2-2 OR BETWEEN TB2-2 & TB2-3.
 9. CONFIGURATION SHOWN IS FOR ATS-MOUNTED BATTERY CHARGER. IF WALL-MOUNTED CHARGER IS USED, CONNECT B+ AND GND FROM CHARGER DIRECTLY TO BATTERY OR STARTER.
 10. TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN NEUTRAL POSITION.
 11. CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 12. OPEN CONNECTION TO INITIATE EMERGENCY STOP. THESE TERMINALS MUST BE SHORTED TOGETHER IF REMOTE EMERGENCY STOP OPTION NOT USED. JUMPER SHOWN BETWEEN TB8-1 AND TB8-2 NOT SUPPLIED WITH UNIT.
 13. 120VAC OR 240VAC AT 50W.
 14. CUSTOMER SUPPLIED EITHER 12 OR 240VDC RELAYS OUTPUT SIGNAL 20ma @ 24VDC MAX.
 15. USE THE INVENTOR REMOTE TEMPERATURE PROBE (0193-0530).
 16. THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT: LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).

OTPC & BTPC
UTILITY TO GENSET



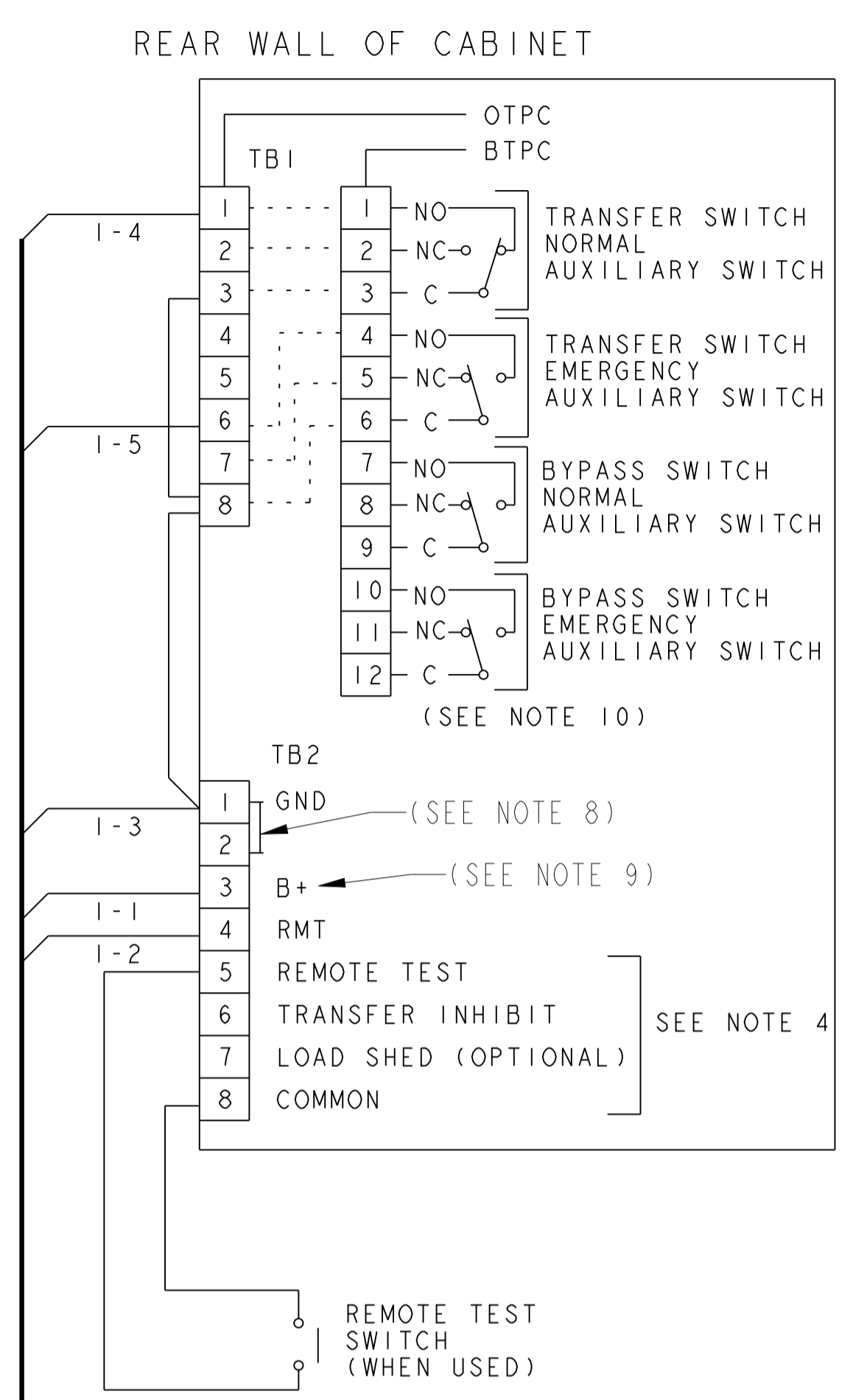
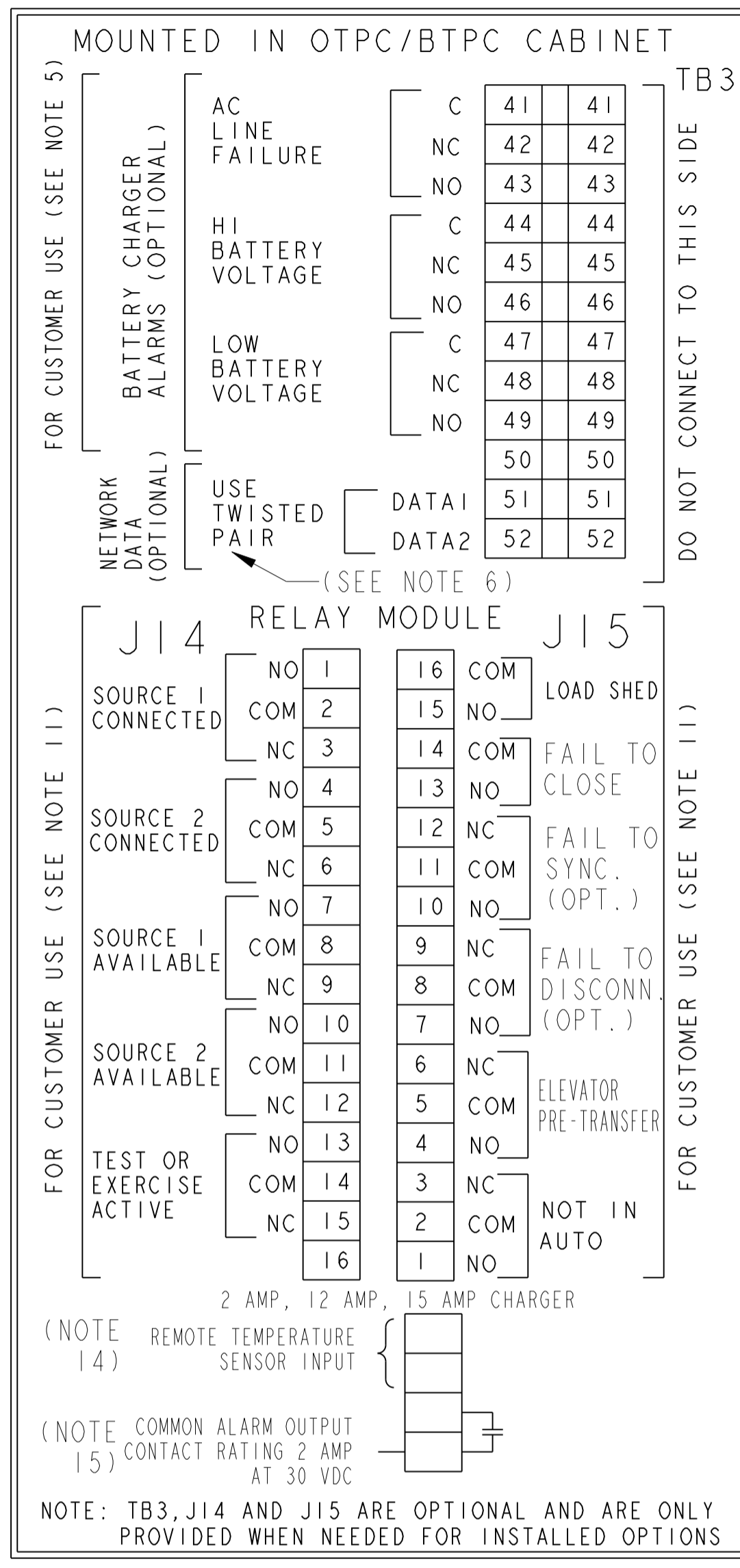
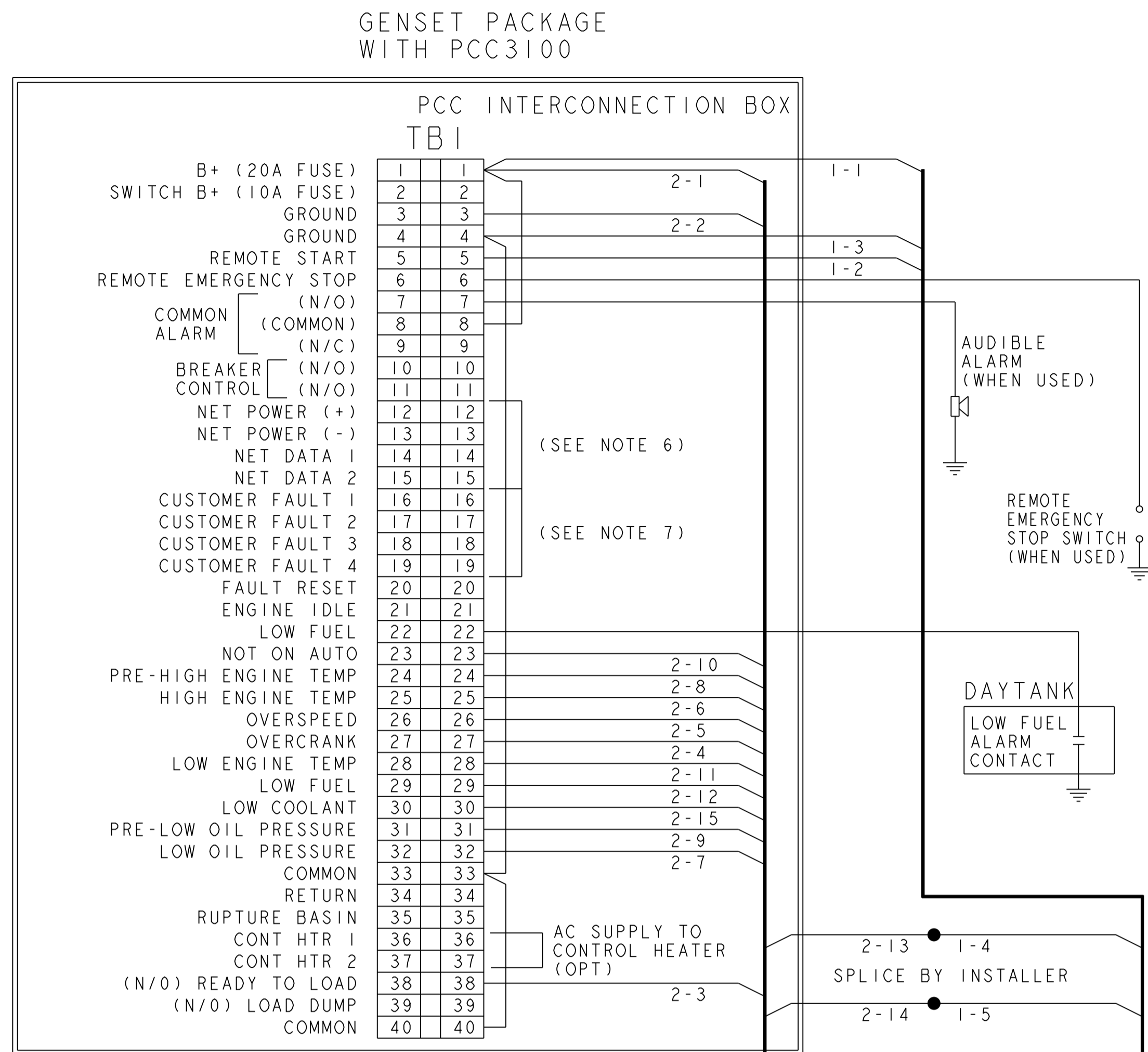
(NOTE 1)

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

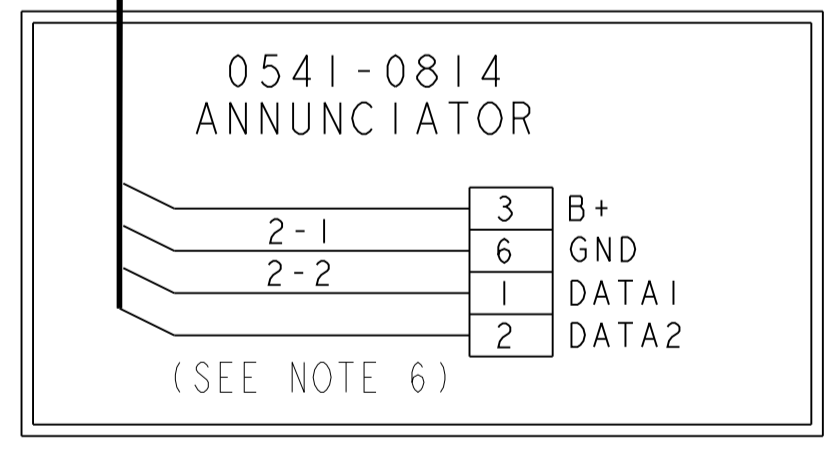
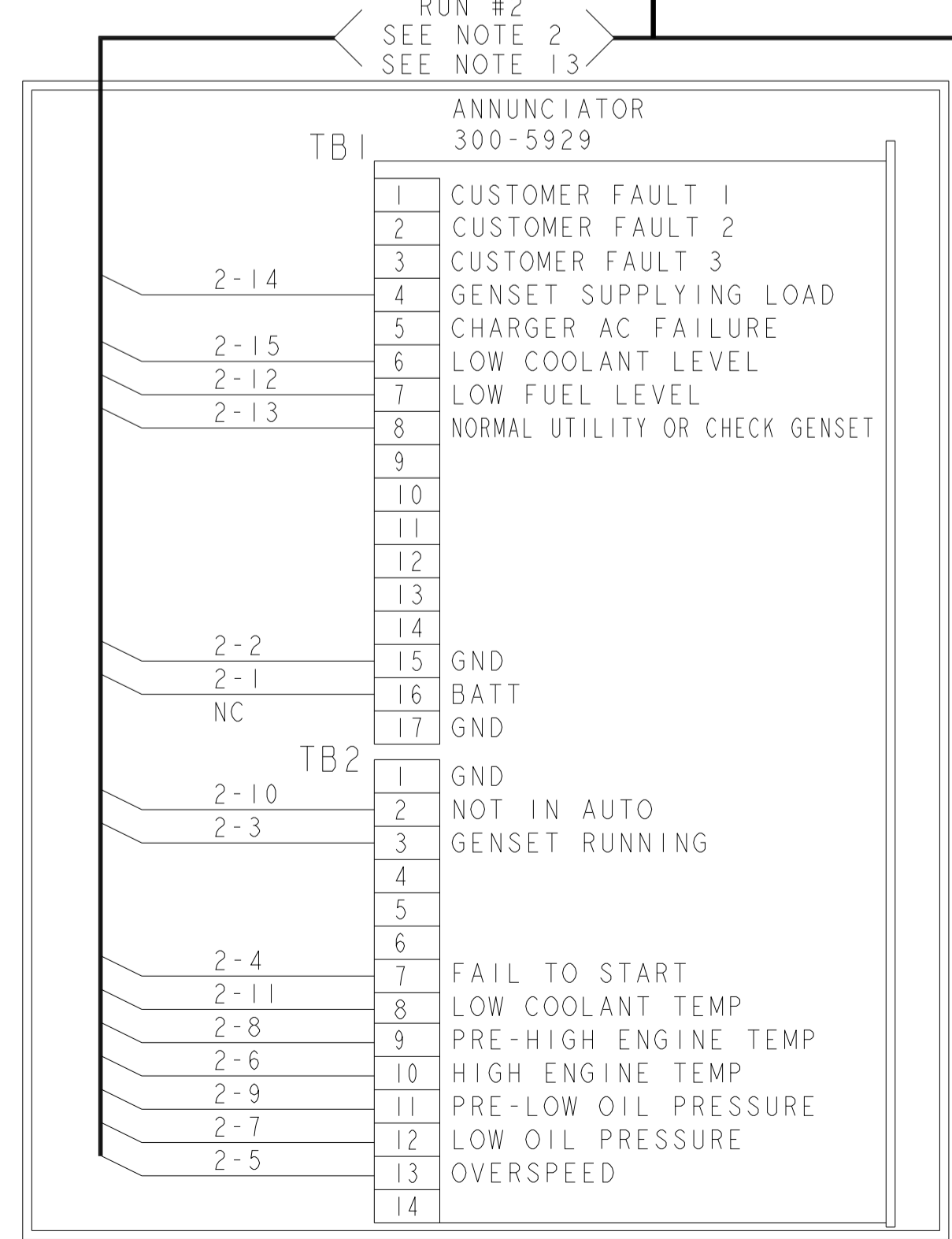
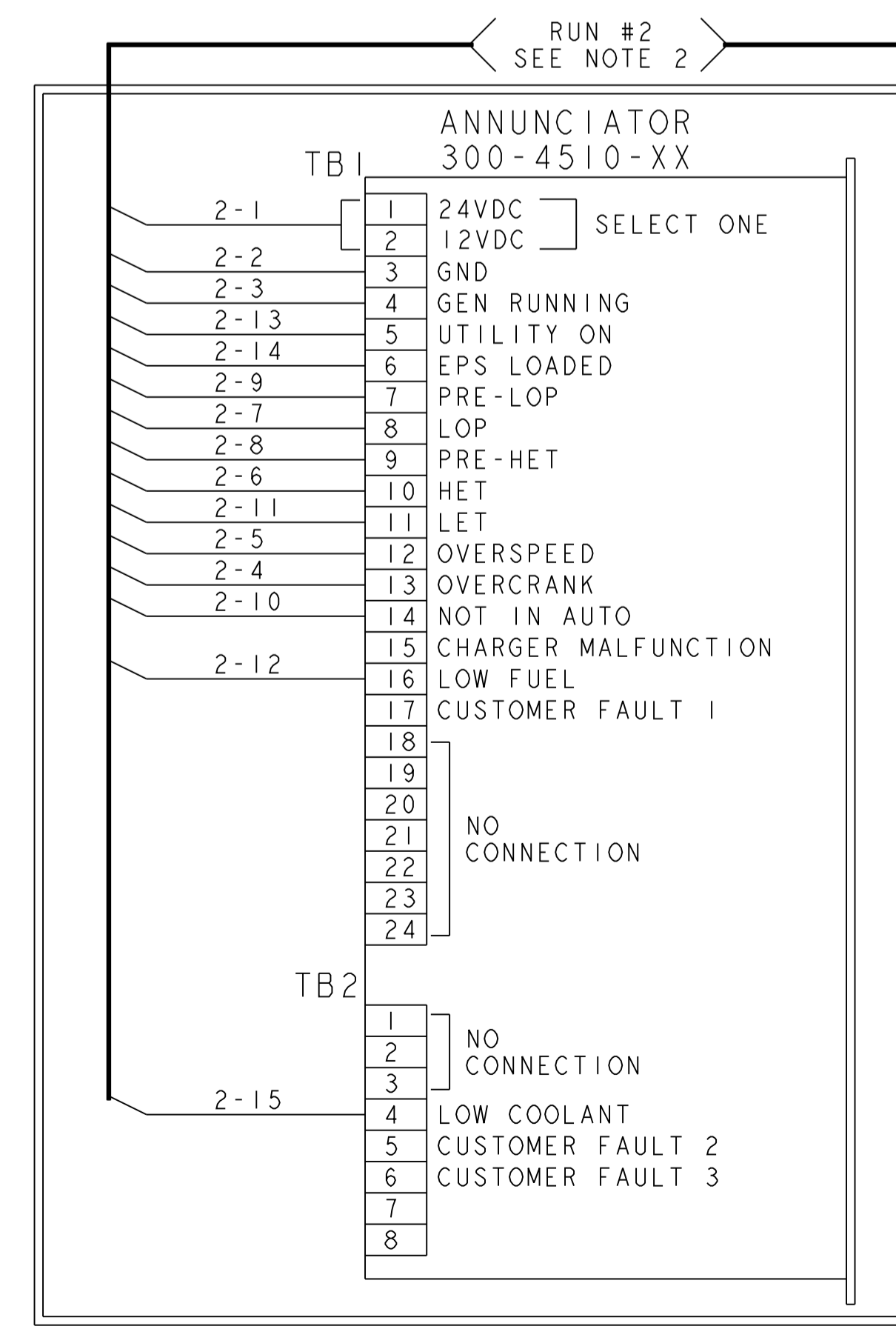
1. WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
2. IF OTPC NETWORK CARD IS USED, YOU MUST CONNECT B+ OR EXTERNAL BATTERY-BACKED POWER TO OTPC/BTPC DIGITAL BOARD AT P27.21 (B+) AND P27.22 (GND).
3. FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
4. CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
5. CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
6. REFER TO CUMMINS 900-0529 POWERCOMMAND NETWORK INSTALLATION & OPERATION MANUAL FOR WIRING INSTRUCTIONS, WIRE SIZE, AND LENGTH. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO NETWORK. PART # 0334-1350 OR EQUAL.
7. INPUTS FOR CUSTOMER FAULTS. GROUNDED SIGNAL REQUIRED TO ACTIVATE INPUT (MAX 50 MA.)
8. NO JUMPER IS REQUIRED BETWEEN TB2-1 & TB2-2 OR BETWEEN TB2-2 & TB2-3.
9. CONFIGURATION SHOWN IS FOR ATS-MOUNTED BATTERY CHARGER. IF WALL-MOUNTED CHARGER IS USED, CONNECT B+ AND GND FROM CHARGER DIRECTLY TO BATTERY OR STARTER.
10. TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN NEUTRAL POSITION.
11. CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
12. OPEN CONNECTION TO INITIATE EMERGENCY STOP. THESE TERMINALS MUST BE SHORTED TOGETHER IF REMOTE EMERGENCY STOP OPTION NOT USED. JUMPER SHOWN BETWEEN TB8-1 AND TB8-2 NOT SUPPLIED WITH UNIT.
13. 120VAC OR 240VAC AT 50W.
14. CUSTOMER SUPPLIED EITHER 12 OR 240VDC RELAYS OUTPUT SIGNAL 20ma @ 24VDC MAX.
15. USE THE INVENTOR REMOTE TEMPERATURE PROBE (0193-0530).
16. THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT: LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).

LAST DATUM LETTER USED: -	LAST REFERENCE LETTER USED: -
MODEL/PLATFORM: OTPC/BTPC	THIS PART IS SIMILAR TO: 0630-1975
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY	
ANG. TOL.: ± 1°	
DIMENSIONAL TOLERANCES:	
X ± 1	.X ± 0.8
.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10
HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.	
DIMENSIONS ARE IN: MILLIMETERS () ARE IN: -	SIZE: A1 SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994	THIRD ANGLE PROJECTION
CAD SYSTEM PTC® Creo® Parametric	

OTPC & BTPC UTILITY TO GENSET



- NOTES:
- WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4, -5 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 - FOR 300-4510 ANNUNCIATOR, RUN #2-GENSET TO ANNUNCIATOR-ALL LEADS, USE COL. A FOR NETWORK ANNUNCIATOR, SEE NOTE 6.
 - FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 - CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 - CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 - REFER TO CUMMINS 900-0529 POWERCOMMAND NETWORK INSTALLATION & OPERATION MANUAL FOR WIRING INSTRUCTIONS, WIRE SIZE, AND LENGTH. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO NETWORK. PART # 0334-1350 OR EQUAL.
 - INPUTS FOR CUSTOMER FAULTS. GROUNDED SIGNAL REQUIRED TO ACTIVATE INPUT (MAX 50 MA.)
 - INSTALL JUMPER BETWEEN TB2-1 & TB2-2. FOR SETS WITH PCC 3100 CONTROL.
 - IF OTPC/BTPC NETWORK CARD IS USED, YOU MUST CONNECT B+ OR EXTERNAL BATTERY-BACKED POWER TO THE OTPC/BTPC DIGITAL BOARD AT P27.21 (B+) AND P27.22 (GND)
 - TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN NEUTRAL POSITION.
 - CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 - REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
 - REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
 - USE THE INVENTER REMOTE TEMPERATURE PROBE (0193-0530).
 - THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE, OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).

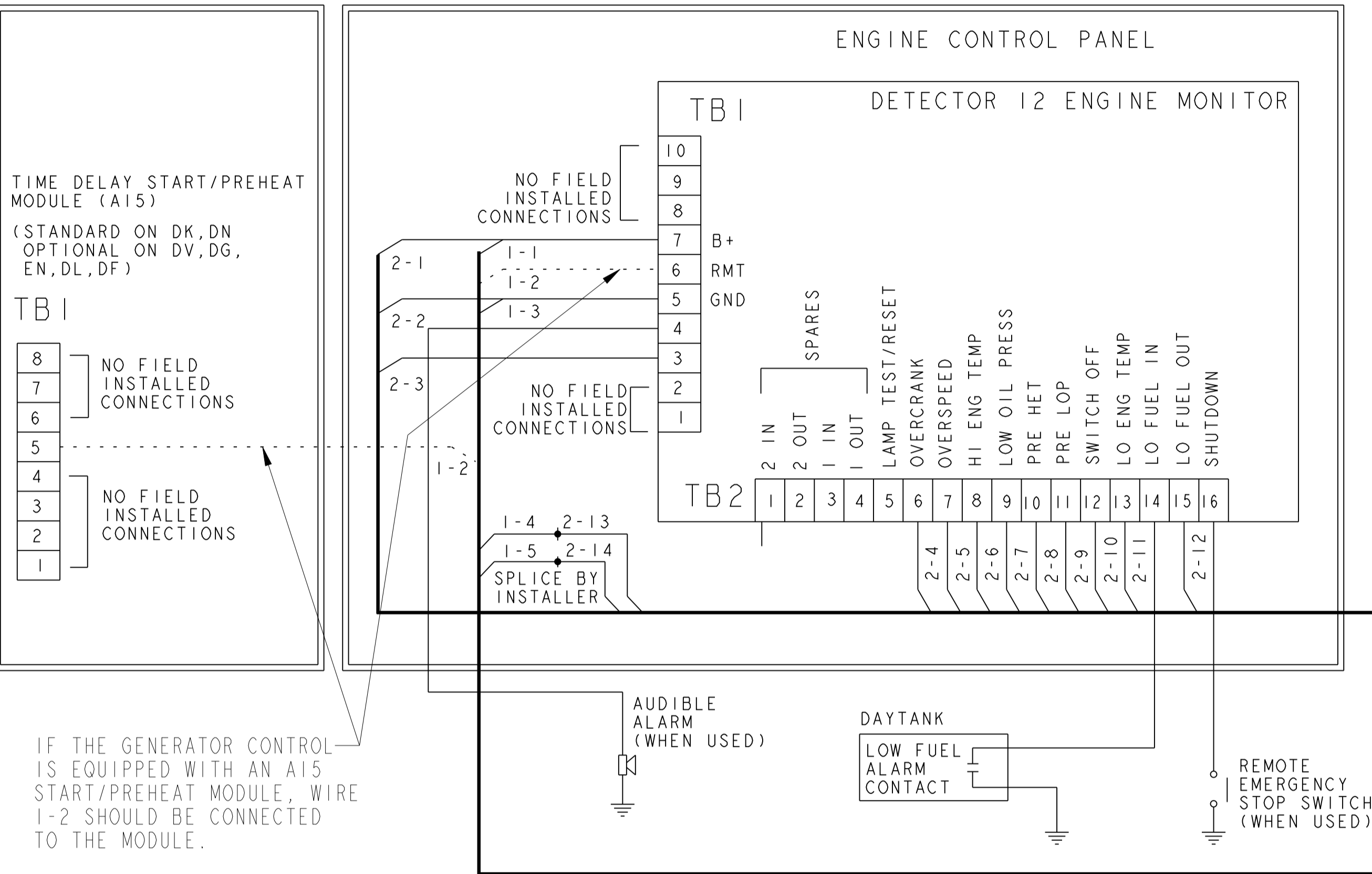


(SEE NOTE 1)

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

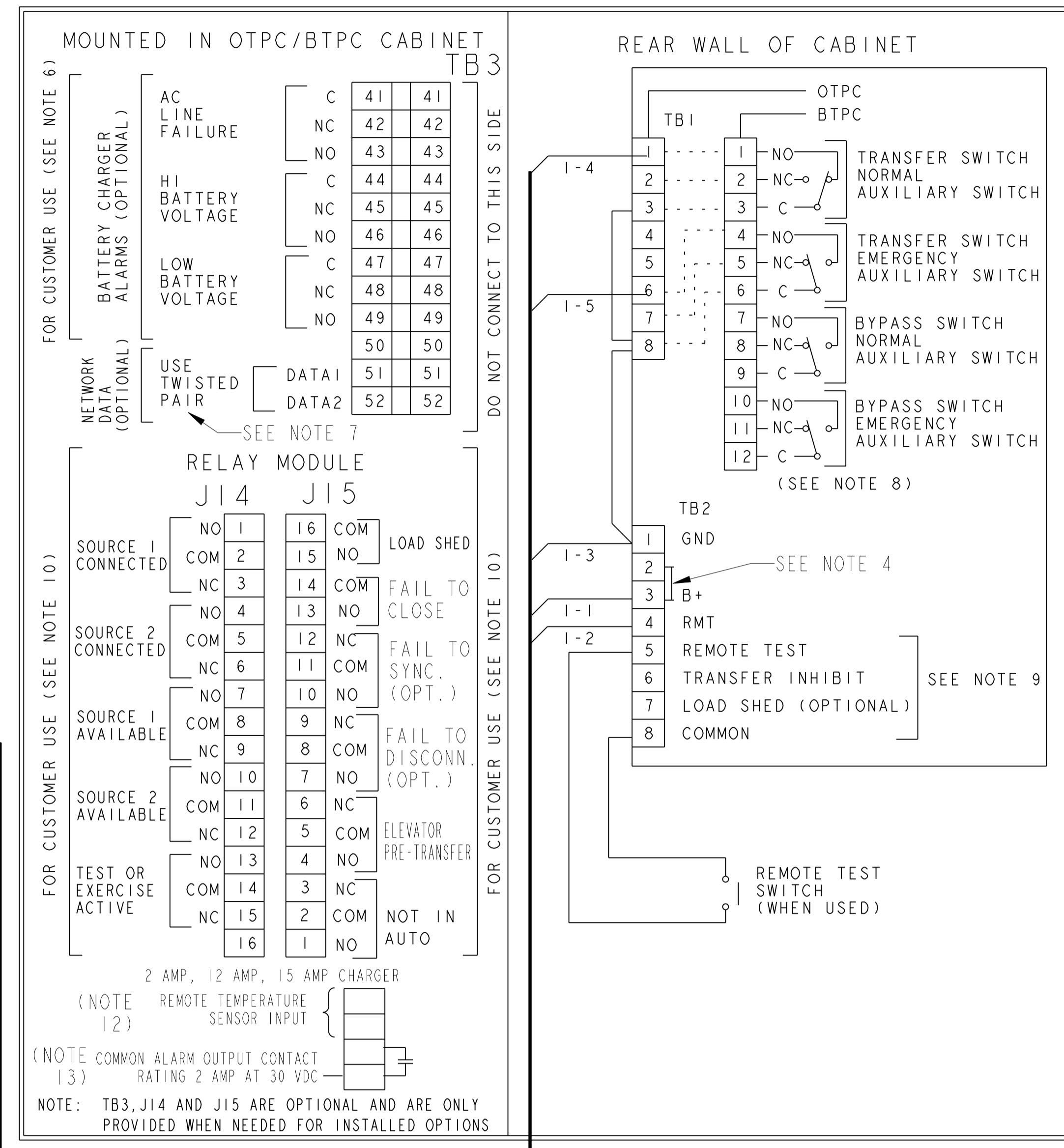
LAST DATUM LETTER USED: -	LAST REFERENCE LETTER USED: -
MODEL/PLATFORM: OTPC/BTPC	THIS PART IS SIMILAR TO: 0630-1975
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY	
ANG. TOL.: ± 1"	
DIMENSIONAL TOLERANCES: X ± 1 .X ± 0.8 .XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10
HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.	
DIMENSIONS ARE IN: MILLIMETERS	SIZE: A1 SCALE: 1/1
[] ARE IN: -	
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994	THIRD ANGLE PROJECTION
	CAD SYSTEM PTC® Creo® Parametric

CUMMINS POWERGENERATOR SET WITH DETECTOR CONTROL

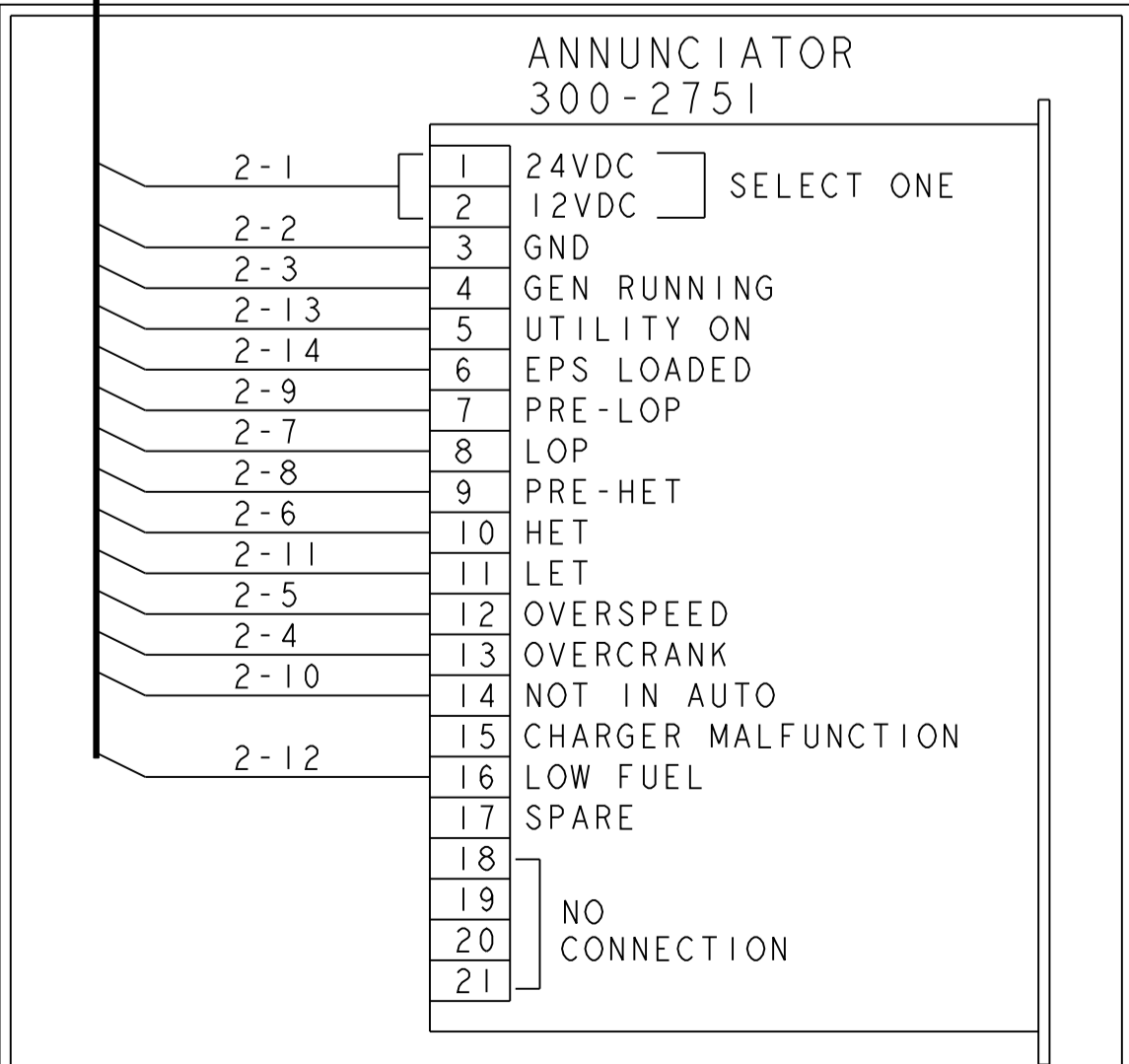
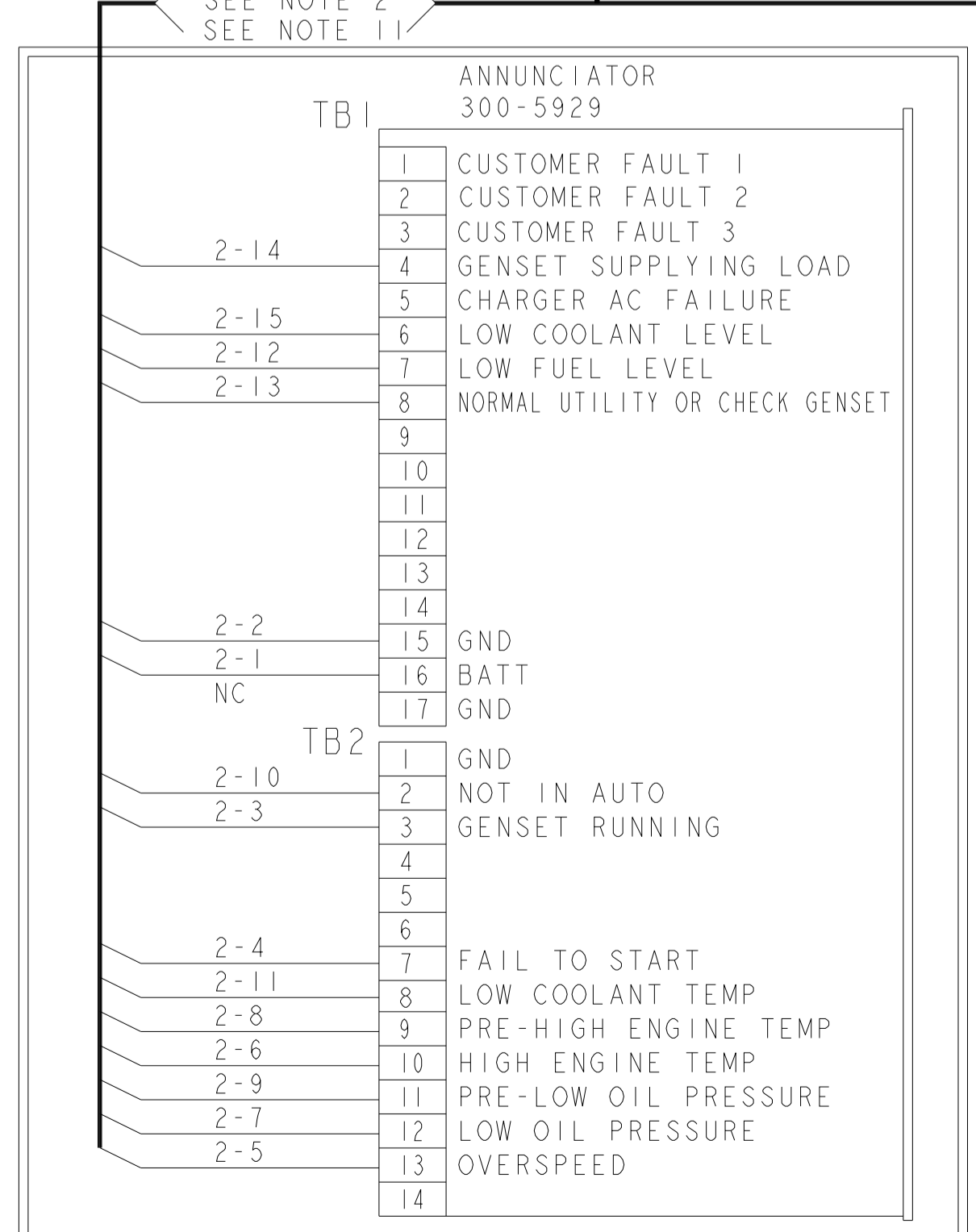
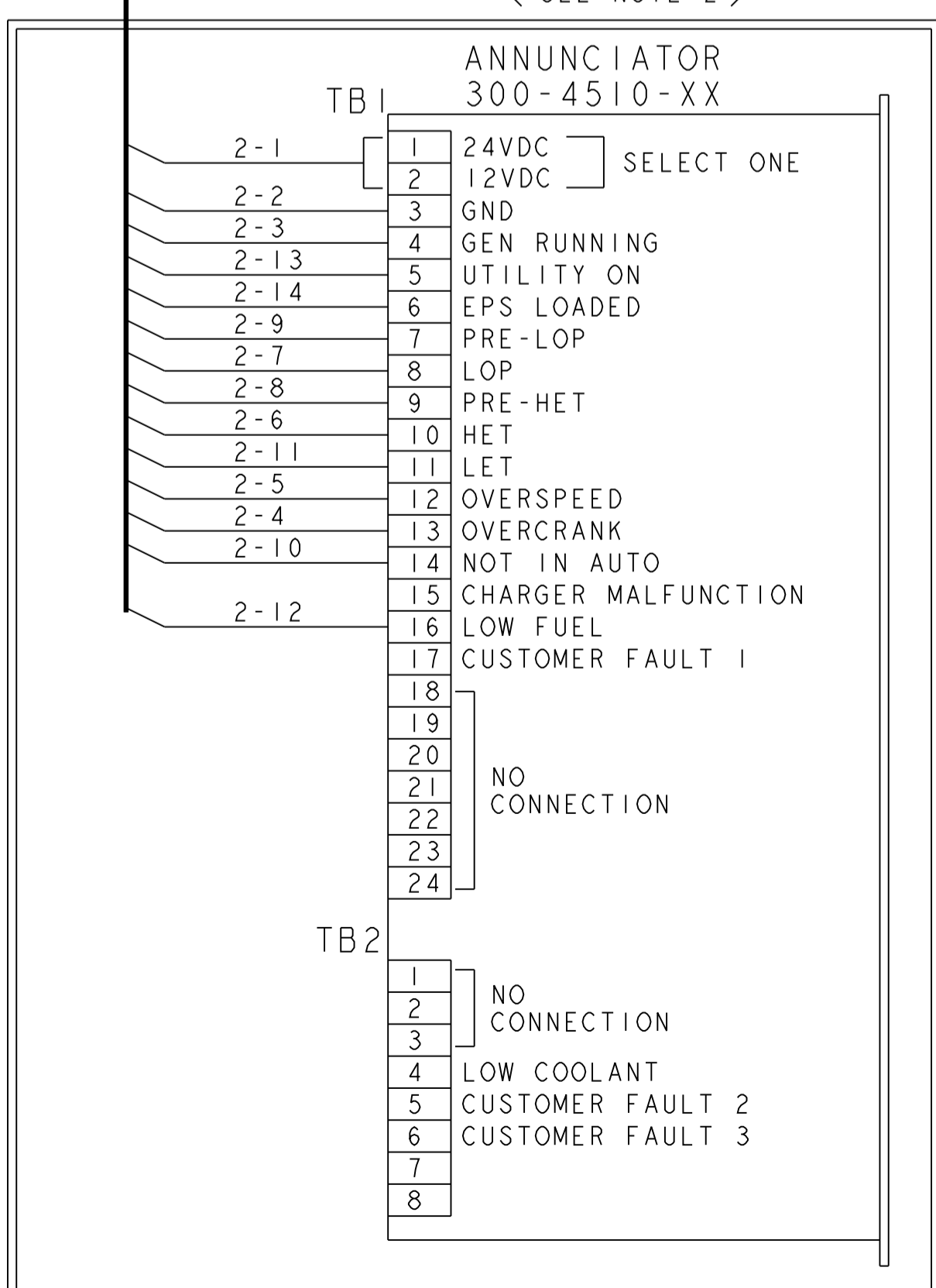


IF THE GENERATOR CONTROL IS EQUIPPED WITH AN A15 START/PREHEAT MODULE, WIRE 1-2 SHOULD BE CONNECTED TO THE MODULE.

OTPC & BTPC UTILITY TO GENSET



- NOTES:
- WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4, -5 USE COL. A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL. B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 - RUN #2-GENSET TO ANNUNCIATOR-ALL LEADS, USE COL. A
 - FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISSY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 - INSTALL JUMPER BETWEEN TB2-2 & TB2-3.
 - 300-4510-XX ANNUNCIATOR MAY BE USED ALSO. WIRE TB1 AS SHOWN.
 - CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 - USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
 - TRANSFER SWITCH SHOWN CLOSED TO NORMAL. BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
 - CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 - CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 - REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
 - USE THE INVERTER REMOTE TEMPERATURE PROBE (0193-0530).
 - THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE, OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).



WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

LAST DATUM LETTER USED: - LAST REFERENCE LETTER USED: -

MODEL/PLATFORM: OTPC/BTPC THIS PART IS SIMILAR TO: 0630-1975

UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY ANG. TOL.: ± 1°

DIMENSIONAL TOLERANCES: X ± 0.1 X ± 0.8 .XX ± 0.38

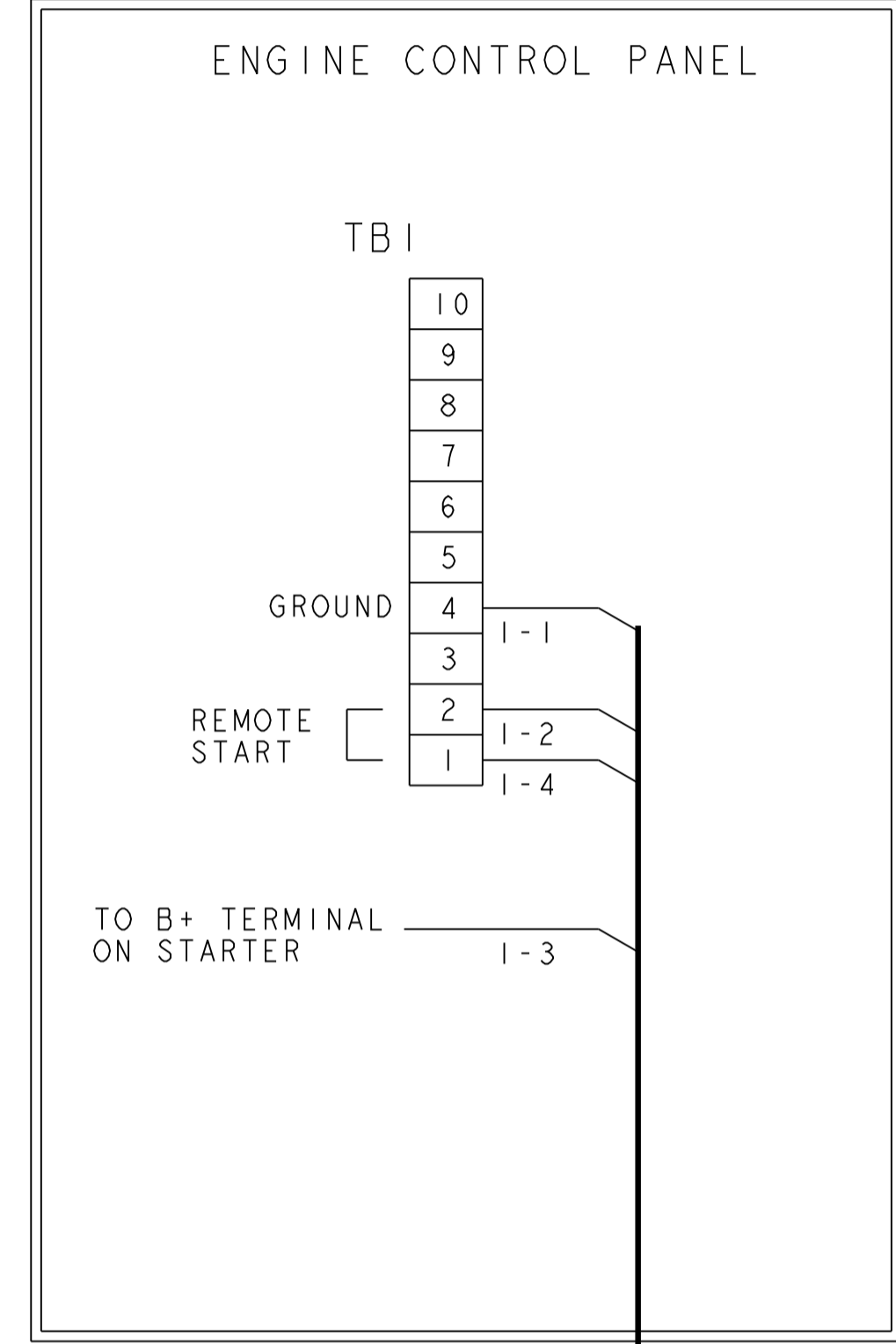
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
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Cummins Inc.

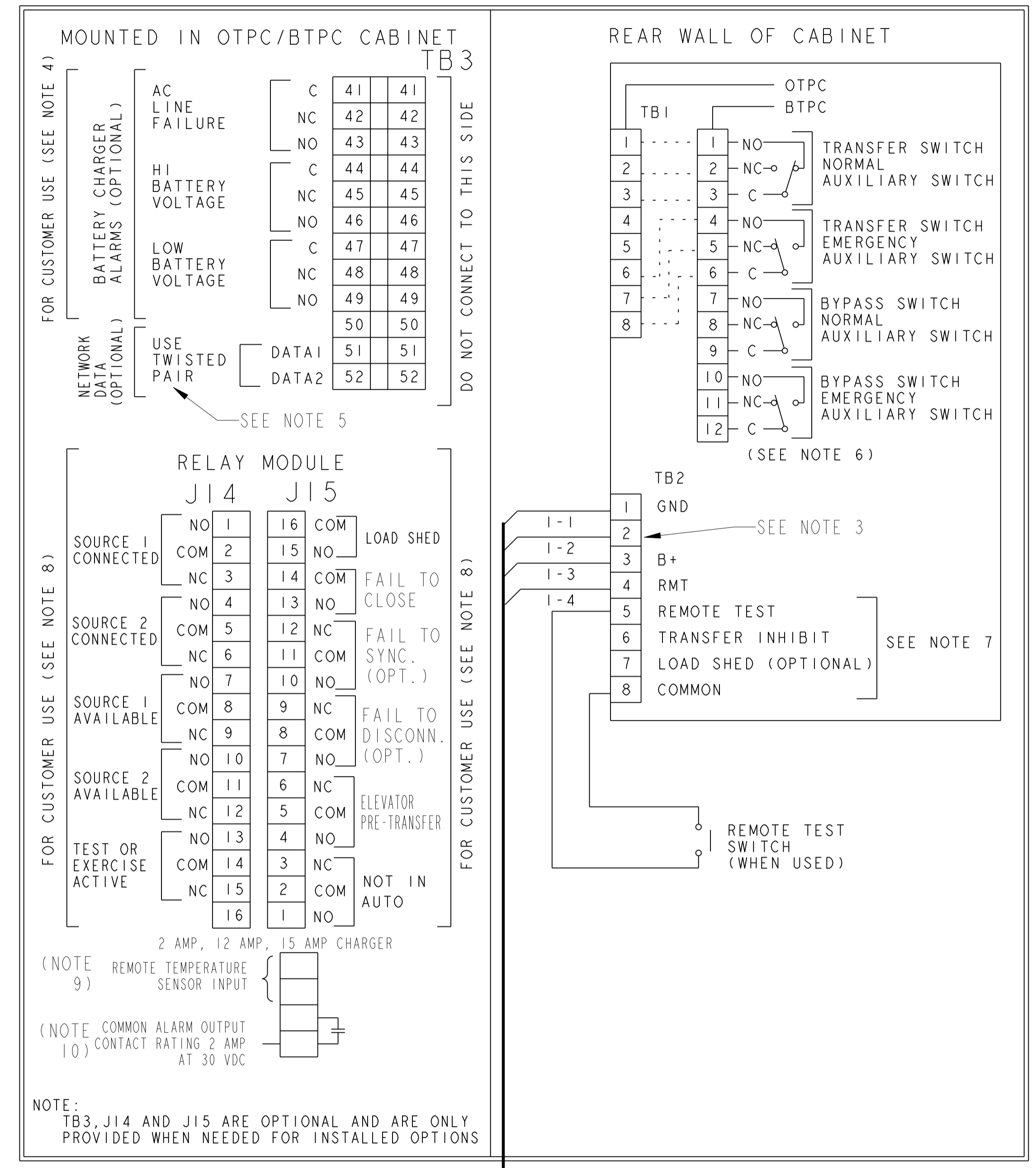
DIMENSIONS ARE IN: MILLIMETERS SIZE: A1 SCALE: 1/1

DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994 THIRD ANGLE PROJECTION CAD SYSTEM PTC® Creo® Parametric

CUMMINS POWERGENERATOR SET
 SERIES GN SPEC A, DN SPEC A
 WITH TWO WIRE CONTROL



OTPC & BTPC
 UTILITY TO GENSET



- NOTES:
1. WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 2. FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 3. DO NOT INSTALL JUMPER BETWEEN TB2-2 & TB2-3 OR BETWEEN TB2-2 & TB2-1.
 4. CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 5. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
 6. TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
 7. CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 8. CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 9. USE THE INVENTER REMOTE TEMPERATURE PROBE (0193-0530).
 10. THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE, OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).

(NOTE 9) REMOTE TEMPERATURE SENSOR INPUT

(NOTE 10) COMMON ALARM OUTPUT CONTACT RATING 2 AMP AT 30 VDC

NOTE:
 TB3, J14 AND J15 ARE OPTIONAL AND ARE ONLY PROVIDED WHEN NEEDED FOR INSTALLED OPTIONS

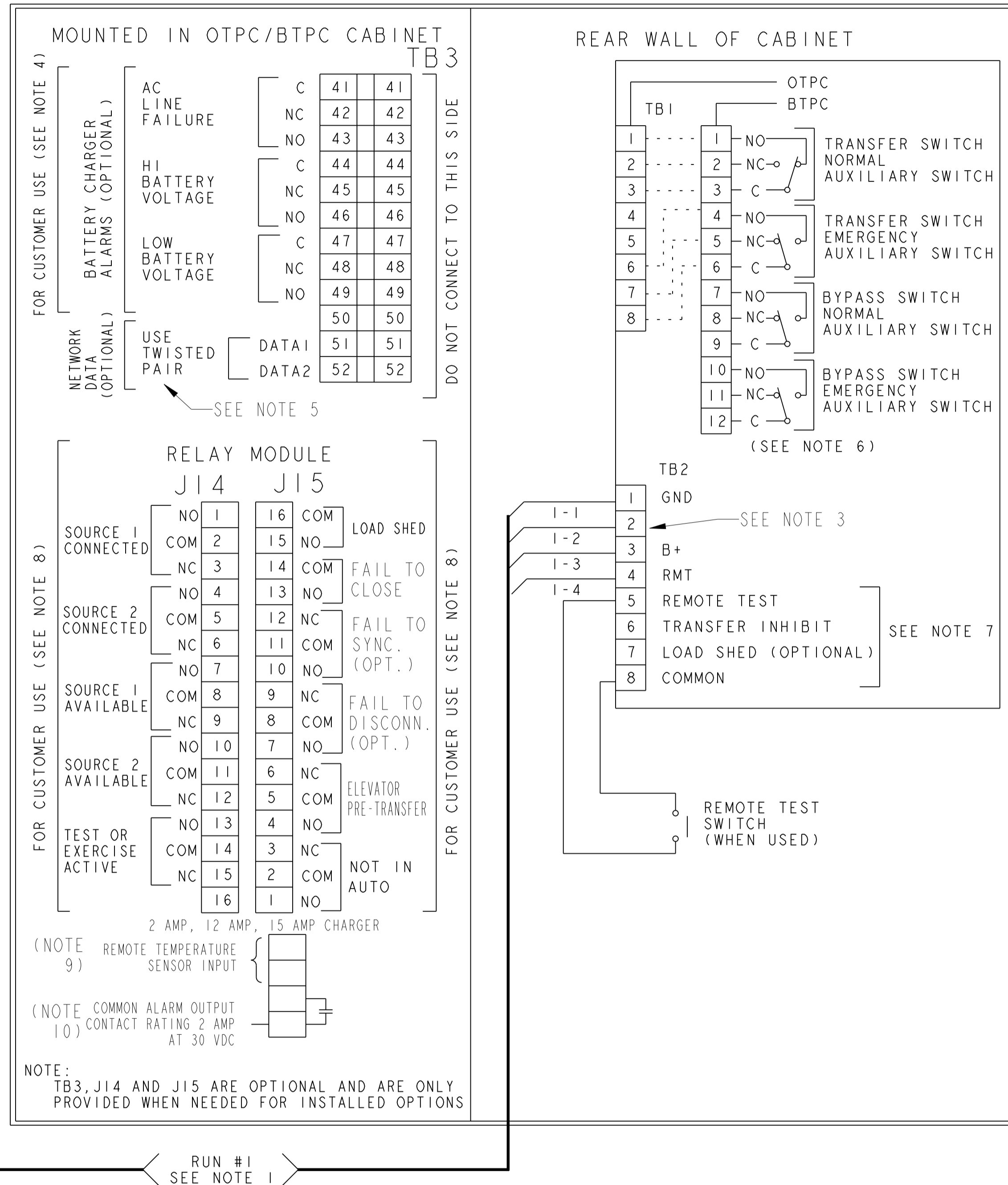
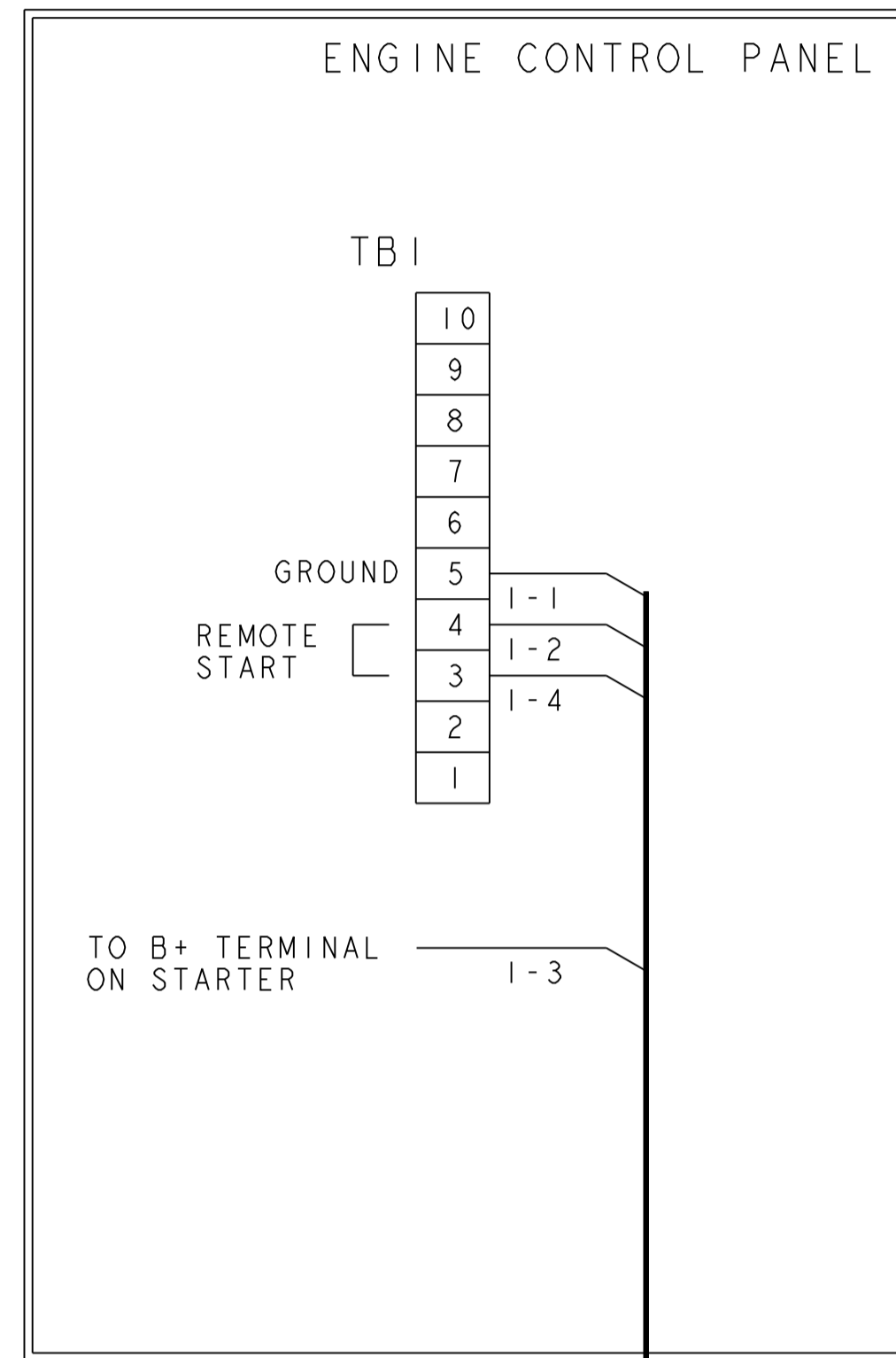
← RUN #1 SEE NOTE 1 →

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

LAST DATUM LETTER USED: -		LAST REFERENCE LETTER USED: -	
MODEL/PLATFORM: OTPC/BTPC		THIS PART IS SIMILAR TO: 0630-1975	
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY			
DIMENSIONAL TOLERANCES:		ANG. TOL.: ± 1°	
X ± 1	.X ± 0.8	.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.			
DIMENSIONS ARE IN: MILLIMETERS [] ARE IN: -		SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994		CAD SYSTEM: PTC® Creo® Parametric	

OTPC & BTPC UTILITY TO GENSET

CUMMINS POWERGENERATOR SET
SERIES DG, GGFB, GGFC, GGHB,
GGHC, GGHD WITH TWO WIRE CONTROL



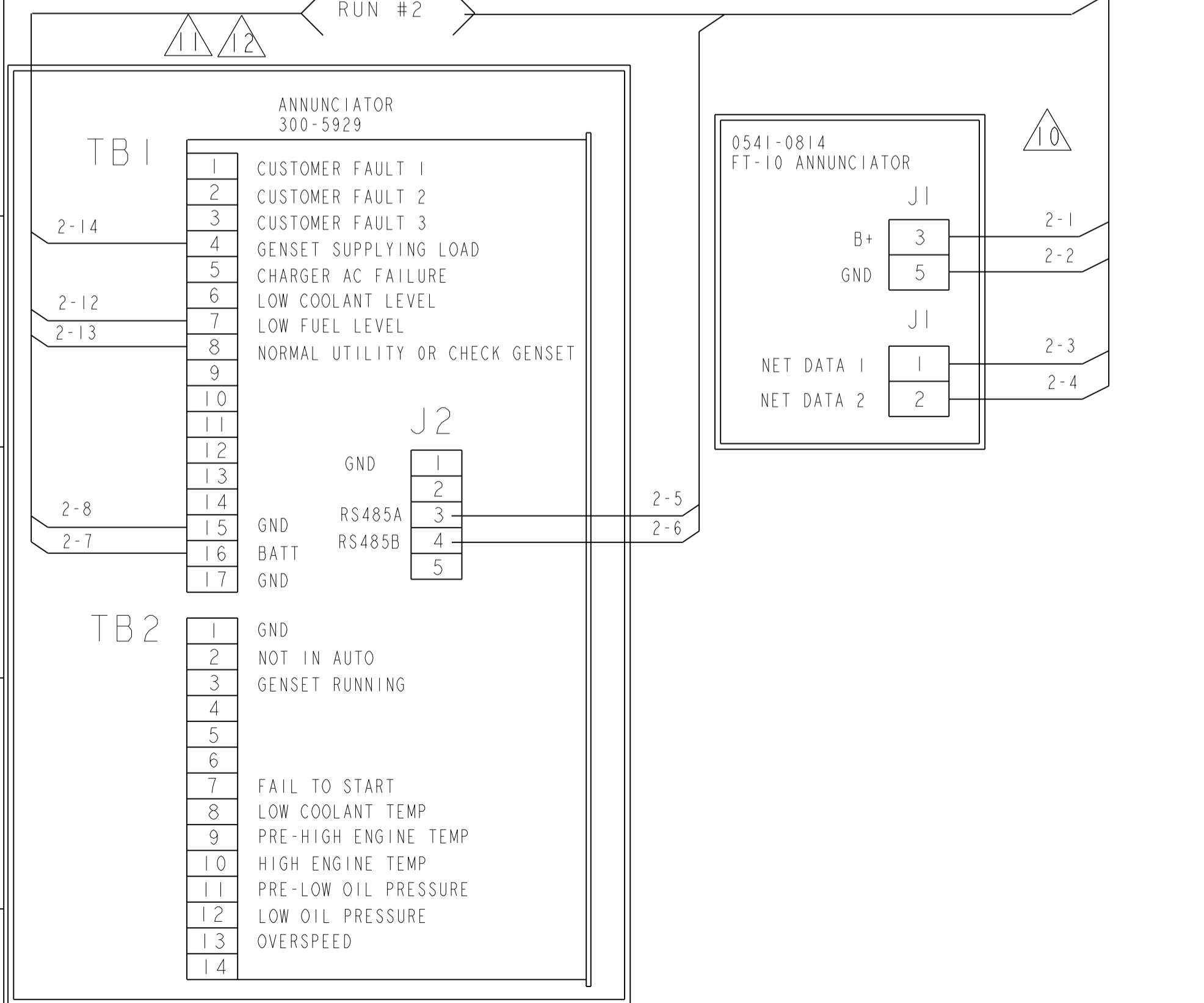
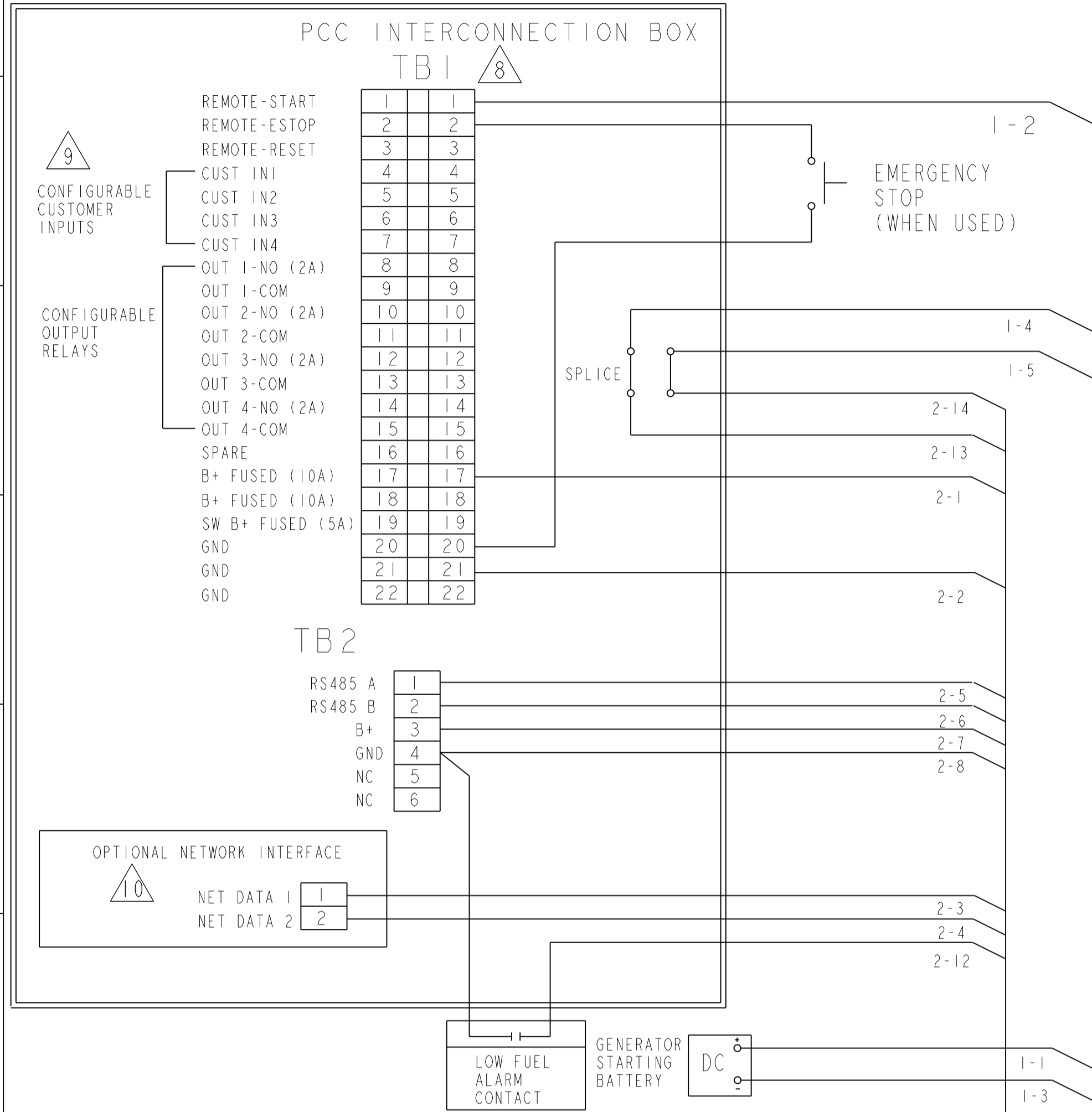
NOTES:

1. WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
2. FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
3. DO NOT INSTALL JUMPER BETWEEN TB2-2 & TB2-3 OR BETWEEN TB2-2 & TB2-1.
4. CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
5. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
6. TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
7. CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
8. CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
9. USE THE INVENTER REMOTE TEMPERATURE PROBE (0193-0530).
10. THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).

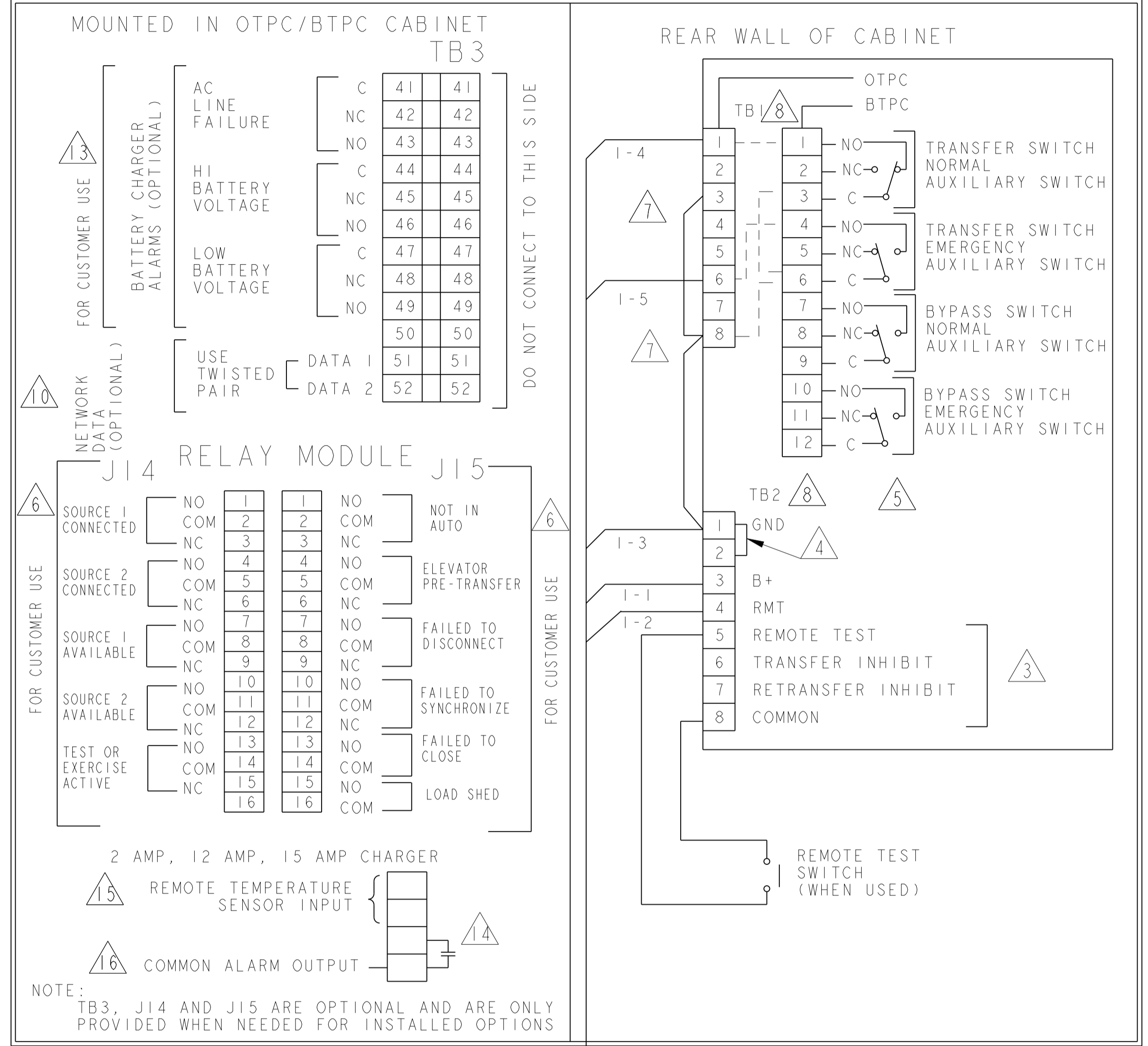
WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

LAST DATUM LETTER USED: -		LAST REFERENCE LETTER USED: -	
MODEL/PLATFORM: OTPC/BTPC		THIS PART IS SIMILAR TO: 0630-1975	
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY			
DIMENSIONAL TOLERANCES:		ANG. TOL.: ± 1°	
X ± 1		.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.			
DIMENSIONS ARE IN: MILLIMETERS () ARE IN: -		SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994		CAD SYSTEM PTC® Creo® Parametric	

CUMMINS POWER GENERATOR
SET WITH PCC 2100 CONTROL



OTPC & BTPC
UTILITY TO GENSET



WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

- NOTES:
- WIRE SIZES MUST BE AS FOLLOWS:
RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE TRANSFER SWITCH ENCLOSURE. WITH NO BATTERY CHARGER-LEADS 1-1, 1-2, 1-3, 1-4 AND 1-5 USE COLUMN A.

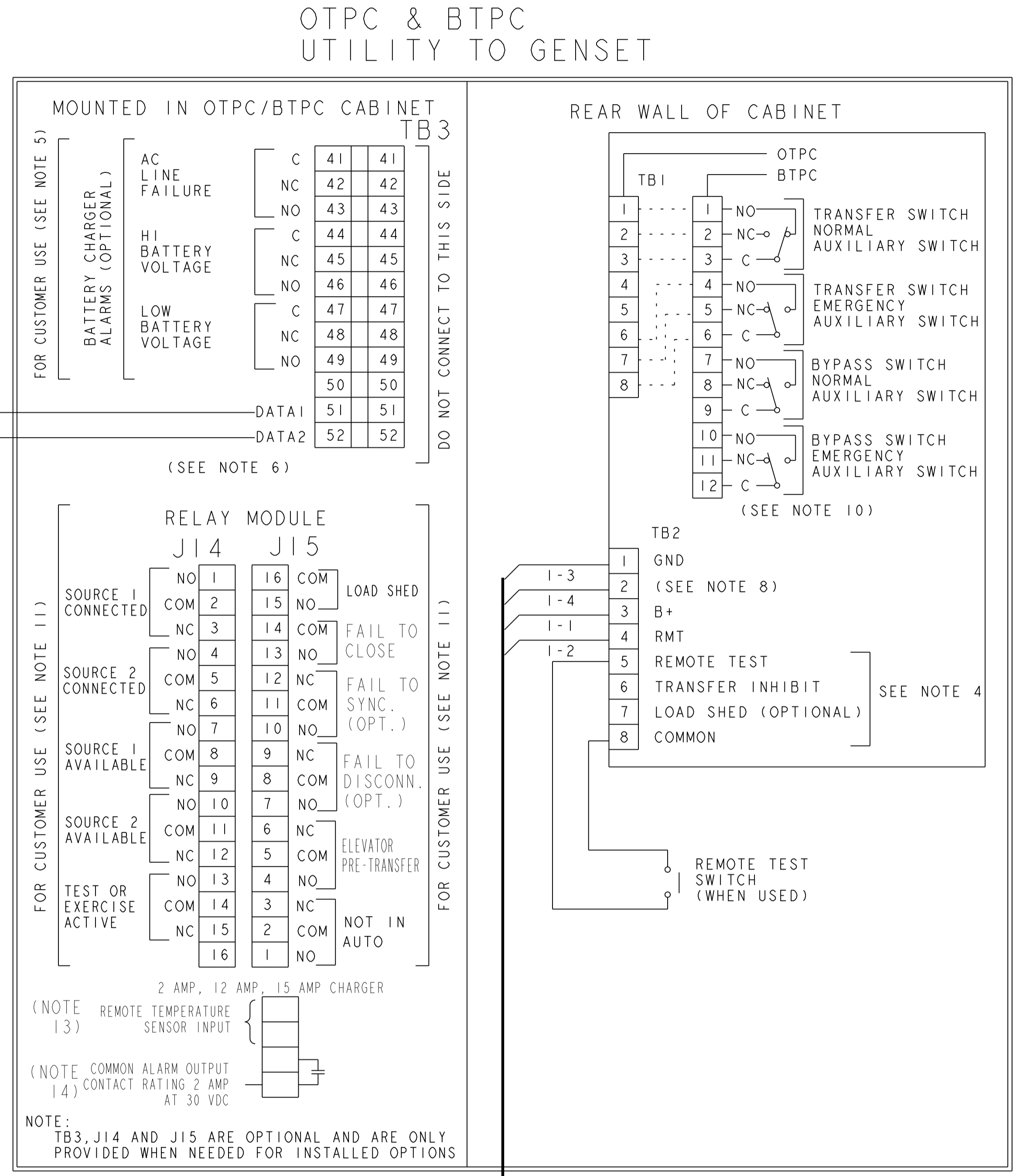
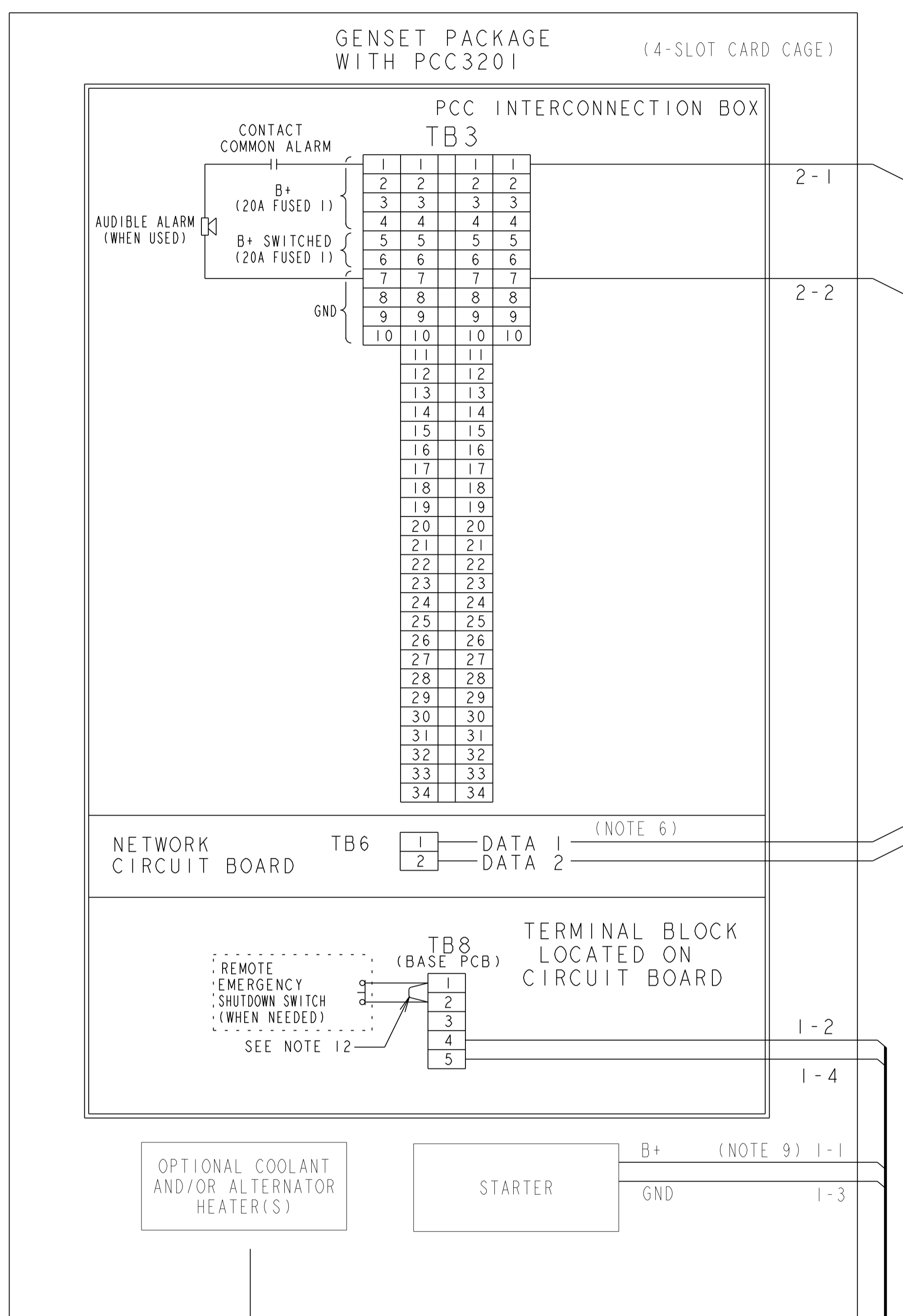
WITH 2 AMP BATTERY CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 AND 1-3 USE COLUMN B.

WITH 12/15 AMP BATTERY CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 AND 1-3 USE COLUMN C.

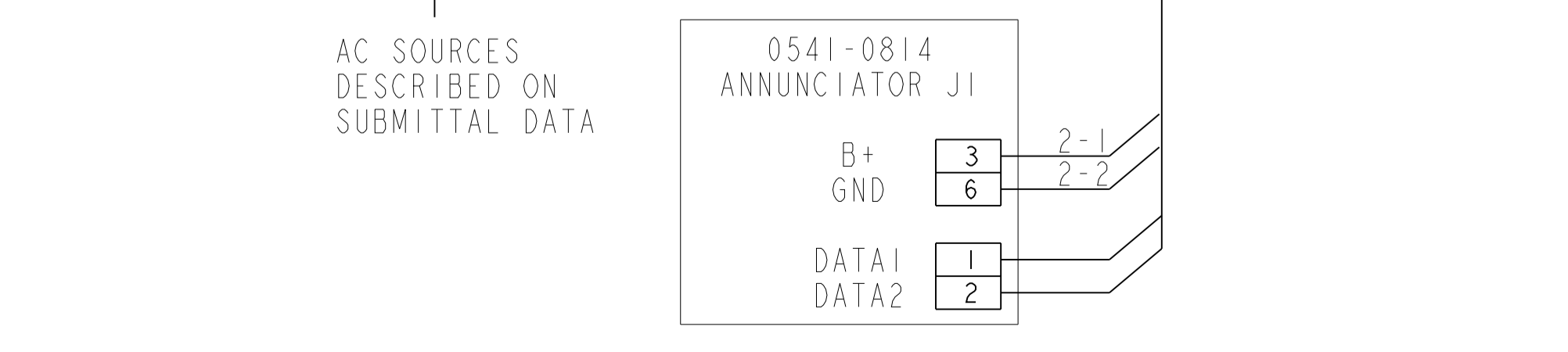
WITH A 2 AMP BATTERY CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1 AND 1-3 USE COLUMN D.

WITH 12/15 AMP BATTERY CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1 AND 1-3 USE COLUMN E. COLUMN E MEETS THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF ITS AMP-HOUR RATING WITHIN 24 HOURS.
 - FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE AND DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 - CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED, CLOSE TO ACTIVATE.
 - INSTALL JUMPER BETWEEN TB2-1 AND TB2-2.
 - TRANSFER SWITCH SHOWN CLOSED TO NORMAL, BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
 - RELAY MODULE CONTACTS RATED 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC MAXIMUM.
 - THIS CONNECTION IS MADE IF ATS POSITION DISPLAY IS DESIRED IN REMOTE ANNUNCIATOR AND ATS DOES NOT HAVE NETWORK INTERFACE. THE CONFIGURABLE INPUT IS PROGRAMMED "EPS SUPPLYING LOAD" AND BOUND TO ANNUNCIATOR OVER NETWORK.
 - TB1 IN THE GENSET CONTROL AND TB2 IN TRANSFER SWITCH WILL ACCEPT A MAXIMUM WIRE SIZE OF 12 AWG. WIRE MUST BE STRANDED.
 - CONNECTIONS TO TB1-4 THRU TB1-7 IN THE GENSET CONTROL ARE FOR CUSTOMER USE AND MAY BE CONFIGURED TO DISPLAY CUSTOM ALARM MESSAGES ON THE GENSET CONTROL. LOW FUEL IS REQUIRED FOR NFPA110 COMPLIANCE.
 - REFER TO CUMMINS 0900-0529, POWERCOMMAND FT-10 NETWORK INSTALLATION AND OPERATION MANUAL, FOR WIRING INSTRUCTIONS, WIRE SIZE AND LENGTH. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA 1 AND DATA 2 TO NETWORK, PART NO. 0334-1350 OR EQUIVALENT.
 - REFER TO CUMMINS 0900-0301, POWERCOMMAND UNIVERSAL ANNUNCIATOR 0300-5929 OWNER MANUAL, FOR INSTALLATION INSTRUCTIONS. USE 18 AWG TWISTED PAIR OR CAT 5 CABLE. TOTAL NETWORK LENGTH CANNOT EXCEED 4000 FEET. UP TO 20 NODES CAN BE CONNECTED TO THE NETWORK. (NOTE: ANY COMMUNICATIONS WIRE CONNECTED TO THE GENSET SHOULD BE STRANDED CABLE)
 - 0300-5929 ANNUNCIATOR COMMUNICATION ONLY AVAILABLE WITH PCC2100 SOFTWARE VERSION 2.400 OR HIGHER.
 - BATTERY CHARGER CONTACTS RATED 4 AMPS AT 30 VDC OR 120 VAC MAXIMUM ON THE 0300-3257 (10A 12V) AND 0300-3298 (10A 24V) CHARGERS.
 - BATTERY CHARGER COMMON ALARM CONTACT RATED 2 AMPS AT 30 VDC ON THE 0300-6026 (2A) AND 0300-5878 (12A/15A) CHARGERS.
 - BATTERY TEMPERATURE SENSOR, 0193-0530, CAN BE USED ON THE 0300-6026 (2A) AND 0300-5878 (12A/15A) BATTERY CHARGERS.
 - THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT ON THE 0300-6026 (2A) AND 0300-5878 (12A/15A) CHARGERS:
LOW BATTERY VOLTAGE
HIGH BATTERY VOLTAGE
LOW AC INPUT VOLTAGE
HIGH AC INPUT VOLTAGE
OVERCURRENT
HIGH CHARGER TEMPERATURE
BATTERY FAILURE
HIGH BATTERY TEMPERATURE
(NOT AVAILABLE ON 0300-6026)

LAST DATUM LETTER USED: -	LAST REFERENCE LETTER USED: -
MODEL/PLATFORM: OTPC/BTPC	THIS PART IS SIMILAR TO: 0630-1975
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY	
DIMENSIONAL TOLERANCES:	ANG. TOL.: ± 1°
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10
HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.	
DIMENSIONS ARE IN: MILLIMETERS [] ARE IN: -	SIZE: A1 SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994	CAD SYSTEM PTC® Creo® Parametric



- NOTES:
- WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -4 USE COL A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 - IF OTPC NETWORK CARD IS USED, YOU MUST CONNECT B+ OR EXTERNAL BATTERY-BACKED POWER TO OTPC/BTPC DIGITAL BOARD AT P27.21 (B+) AND P27.22 (GND).
 - FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 - CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 - CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 - REFER TO CUMMINS 900-0529 POWERCOMMAND NETWORK INSTALLATION & OPERATION MANUAL FOR WIRING INSTRUCTIONS, WIRE SIZE, AND LENGTH. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO NETWORK. PART # 0334-1350 OR EQUAL.
 - INPUTS FOR CUSTOMER FAULTS. GROUNDED SIGNAL REQUIRED TO ACTIVATE INPUT (MAX 50 MA.)
 - NO JUMPER IS REQUIRED BETWEEN TB2-1 & TB2-2 OR BETWEEN TB2-2 & TB2-3.
 - CONFIGURATION SHOWN IS FOR ATS-MOUNTED BATTERY CHARGER. IF WALL-MOUNTED CHARGER IS USED, CONNECT B+ AND GND FROM CHARGER DIRECTLY TO BATTERY OR STARTER.
 - TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN NEUTRAL POSITION.
 - CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 - OPEN CONNECTION TO INITIATE EMERGENCY STOP. THESE TERMINALS MUST BE SHORTED TOGETHER IF REMOTE EMERGENCY STOP OPTION NOT USED. JUMPER SHOWN BETWEEN TB8-1 AND TB8-2 NOT SUPPLIED WITH UNIT.
 - 120VAC OR 240VAC AT 50W.
 - CUSTOMER SUPPLIED EITHER 12 OR 240VDC RELAYS OUTPUT SIGNAL 20ma @ 24VDC MAX.
 - USE THE INVERTER REMOTE TEMPERATURE PROBE (0193-0530).
 - THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).



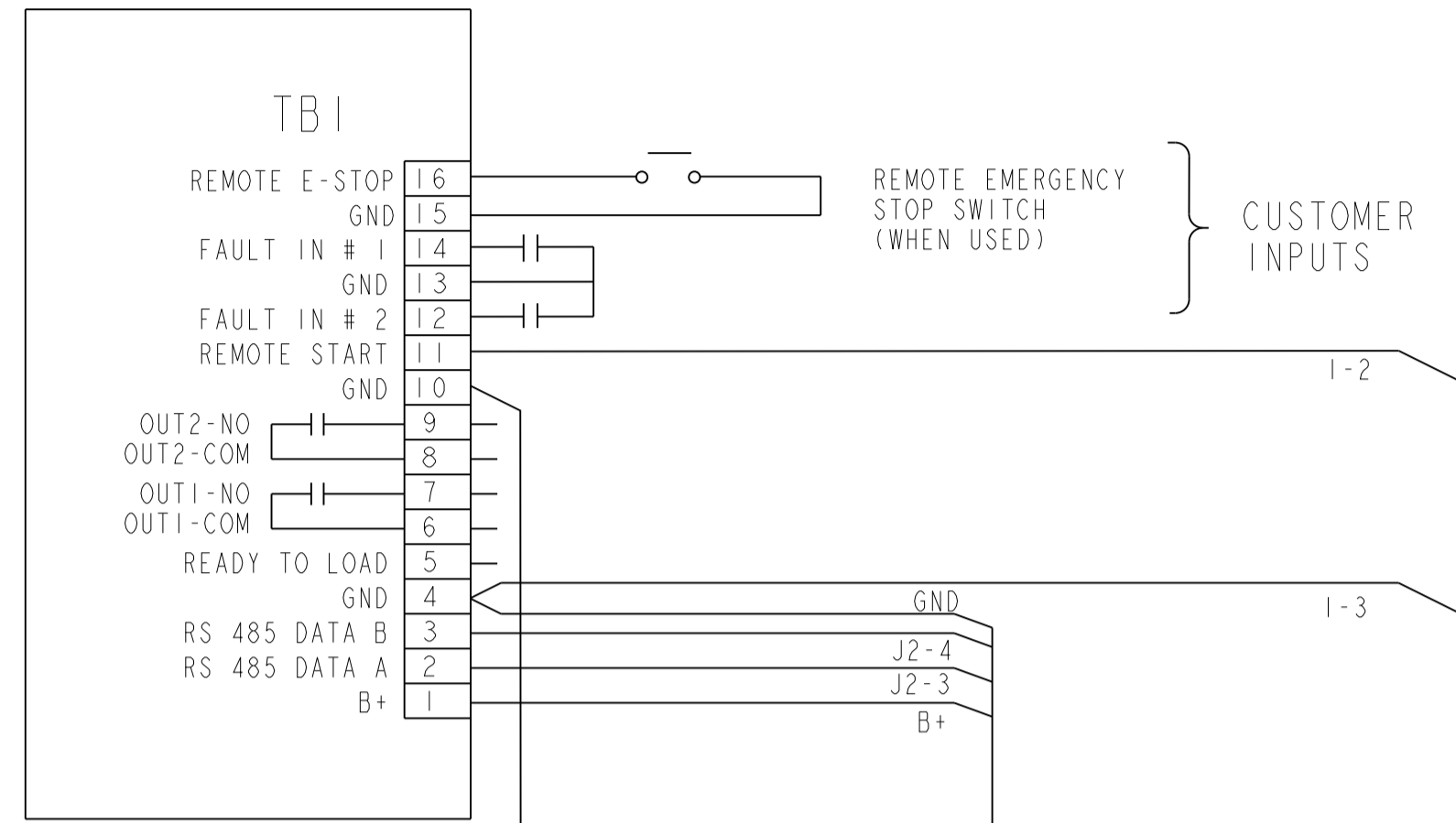
(NOTE 1)

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

LAST DATUM LETTER USED: -	LAST REFERENCE LETTER USED: -		
MODEL/PLATFORM: OTPC/BTPC	THIS PART IS SIMILAR TO: 0630-1975		
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY			
ANG. TOL.: ± 1°			
DIMENSIONAL TOLERANCES:			
X ± 1	X ± 0.8	.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.			
DIMENSIONS ARE IN: MILLIMETERS () ARE IN: -			
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994		SCALE: 1/1	
THIRD ANGLE PROJECTION		CAD SYSTEM PTC® Creo® Parametric	

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

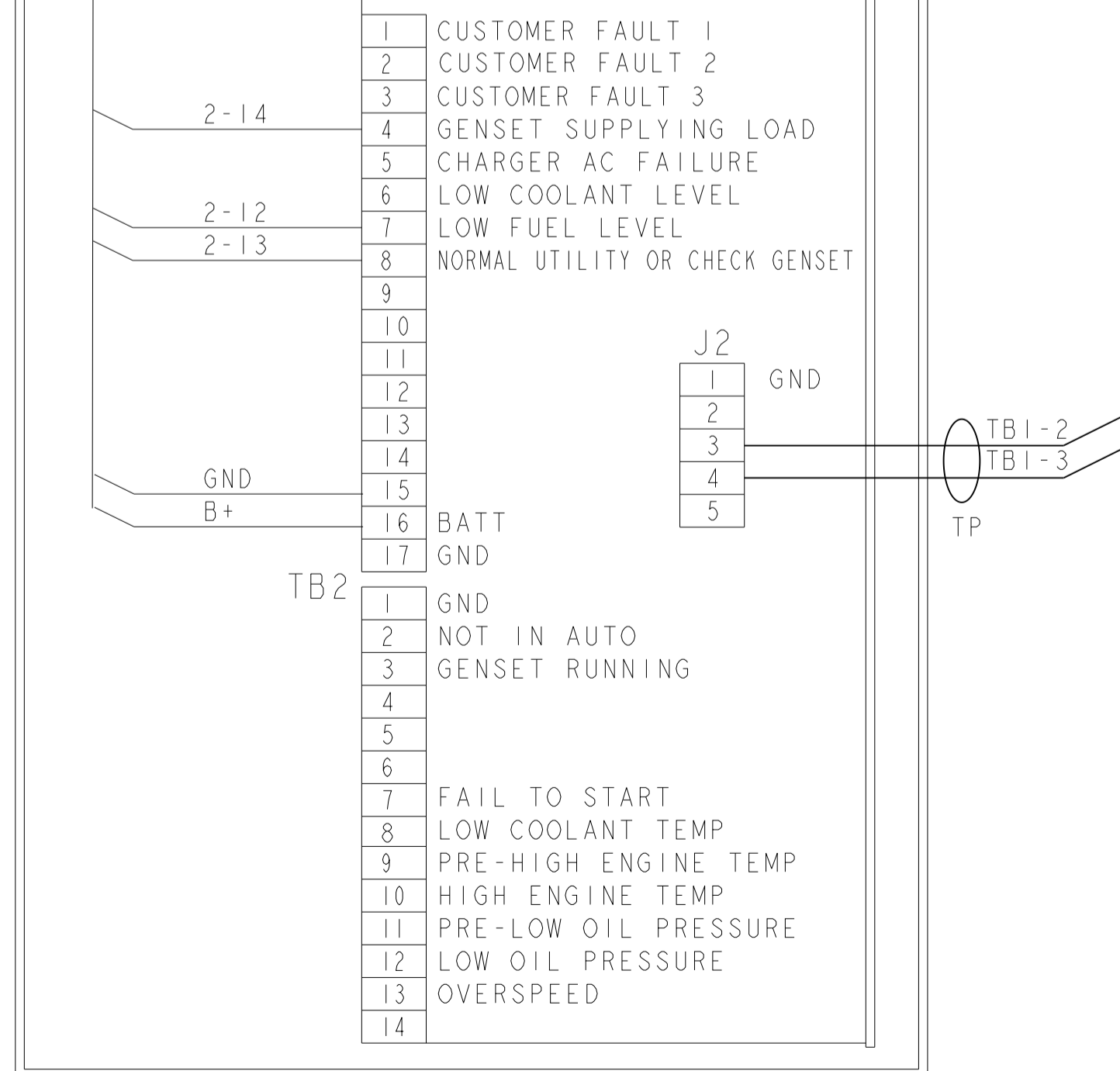
CUMMINS GENERATOR SET WITH PCC1301 CONTROL



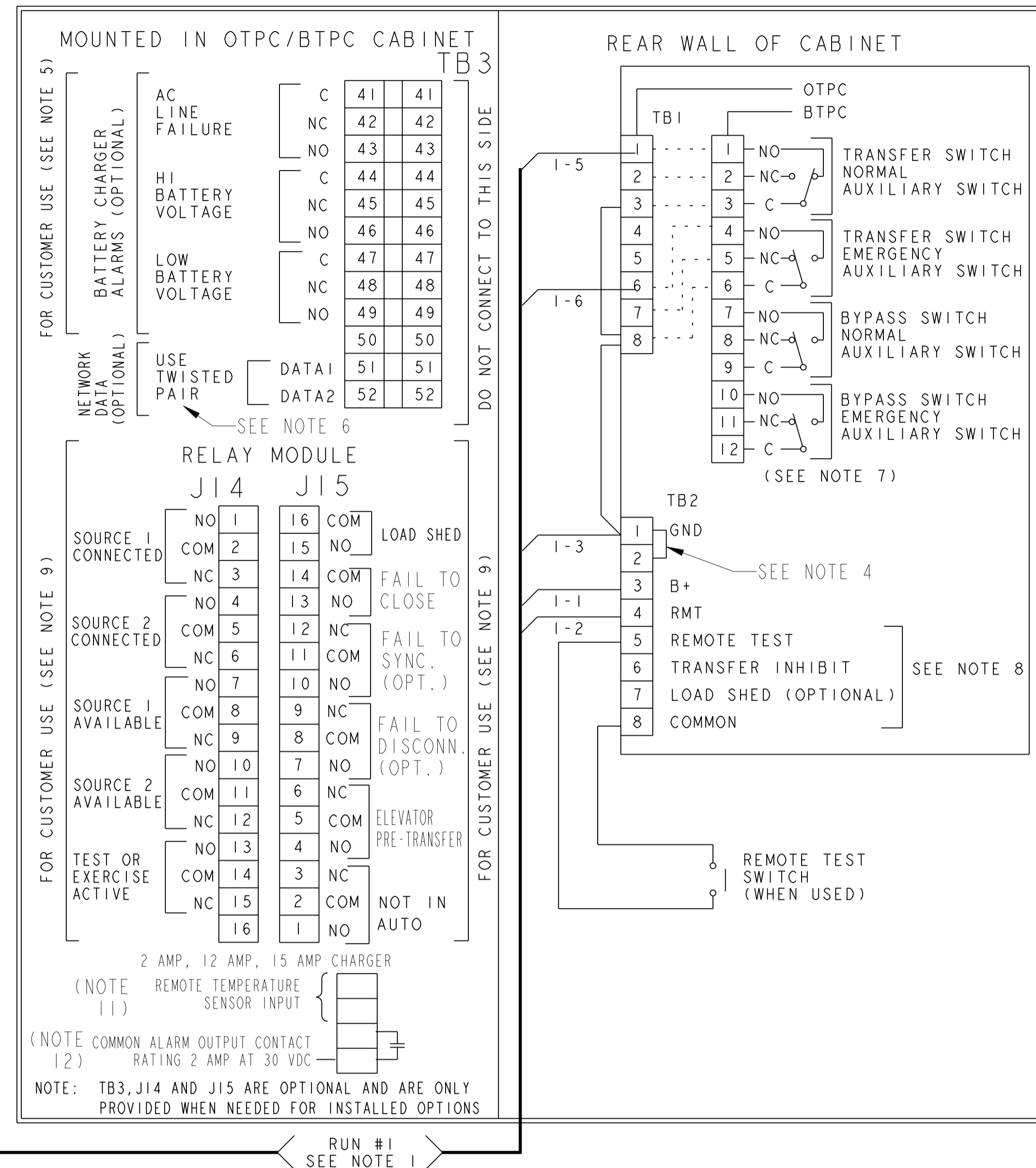
DAY TANK



ANNUNCIATOR 300-5929



OTPC & BTPC UTILITY TO GENSET



NOTES:

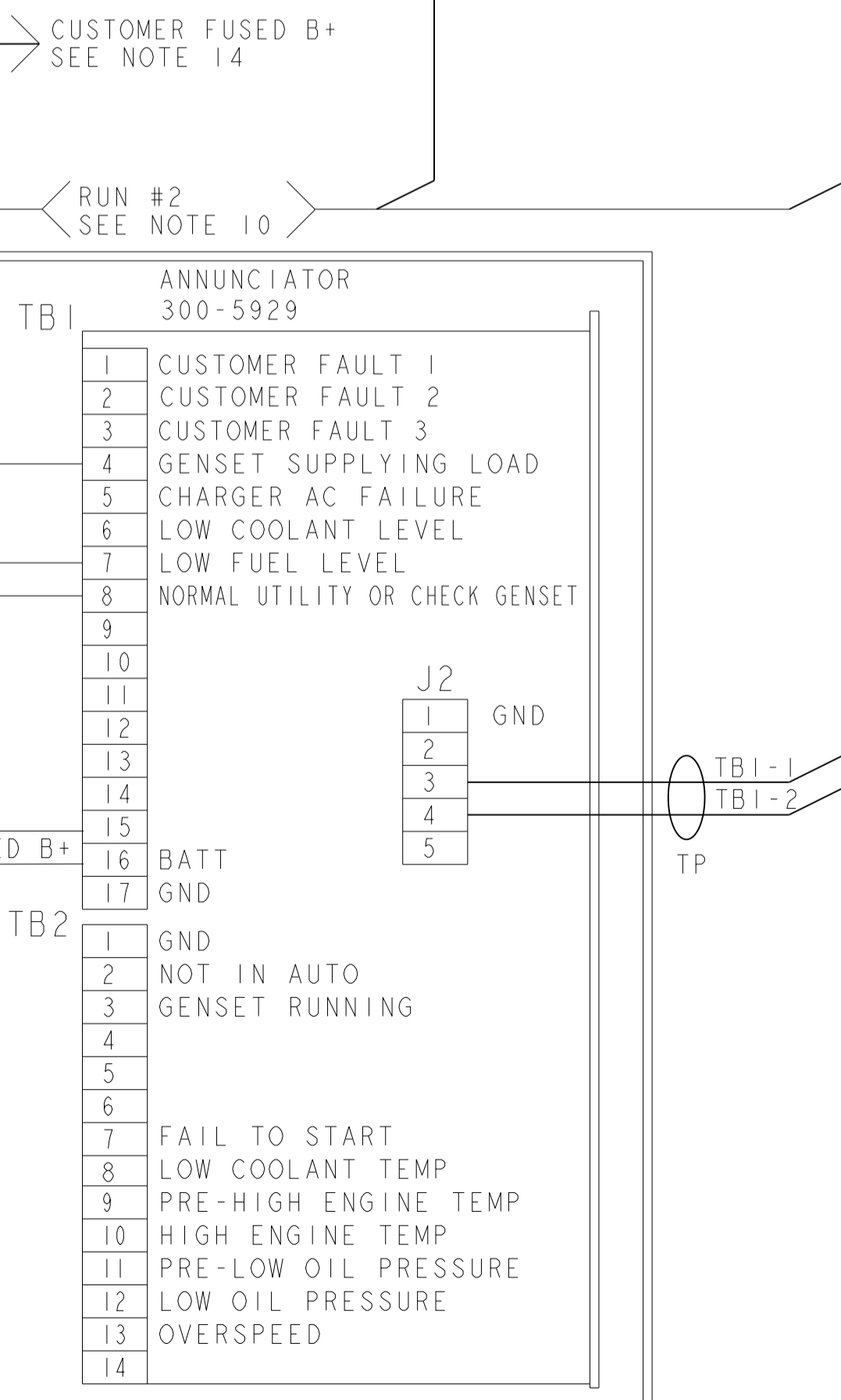
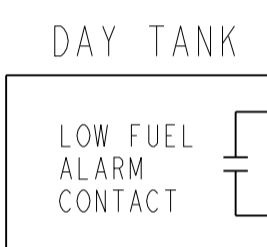
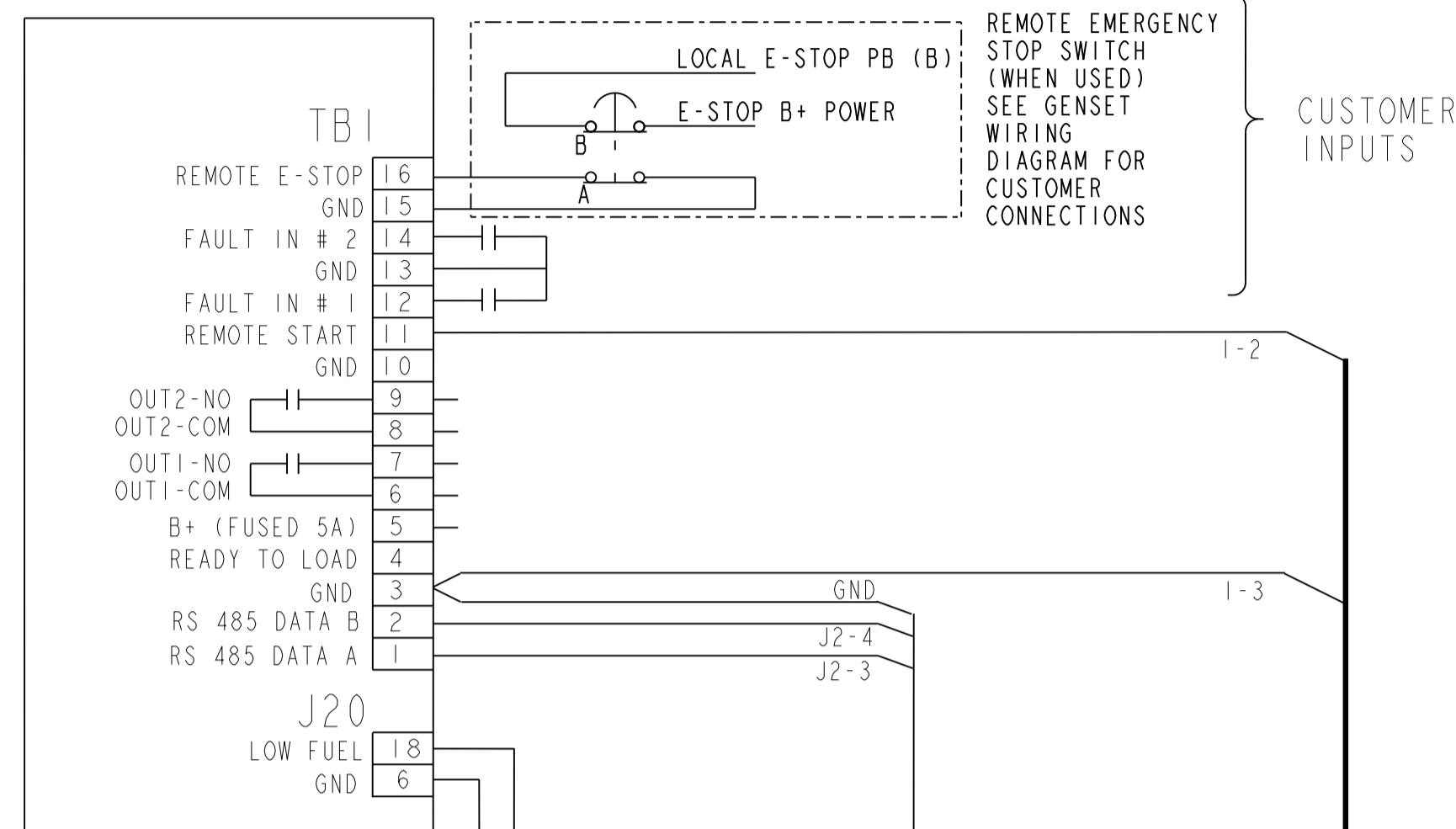
- WIRE SIZES MUST BE AS FOLLOWS:
 RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
 WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -5, -6 USE COL. A.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL. B.
 WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
 WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. D.
 WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
- RUN #2-GENSET TO ANNUNCIATOR-ALL LEADS, USE COL. A
- FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
- INSTALL JUMPER BETWEEN TB2-1 & TB2-2.
- CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
- USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
- TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
- CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
- CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
- REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
- USE THE INVENTER REMOTE TEMPERATURE PROBE (0193-0530).
- THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
 LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).
- NETWORK CONNECTIONS: 18 GA TWISTED PAIR OR CAT 5 CABLE. TOTAL NETWORK LENGTH CANNOT EXCEED 4000 FEET. UP TO 20 NODES CAN BE CONNECTED TO THE NETWORK. (NOTE: ANY COMMUNICATIONS WIRE CONNECTED TO THE GENSET SHOULD BE STRANDED CABLE.)

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

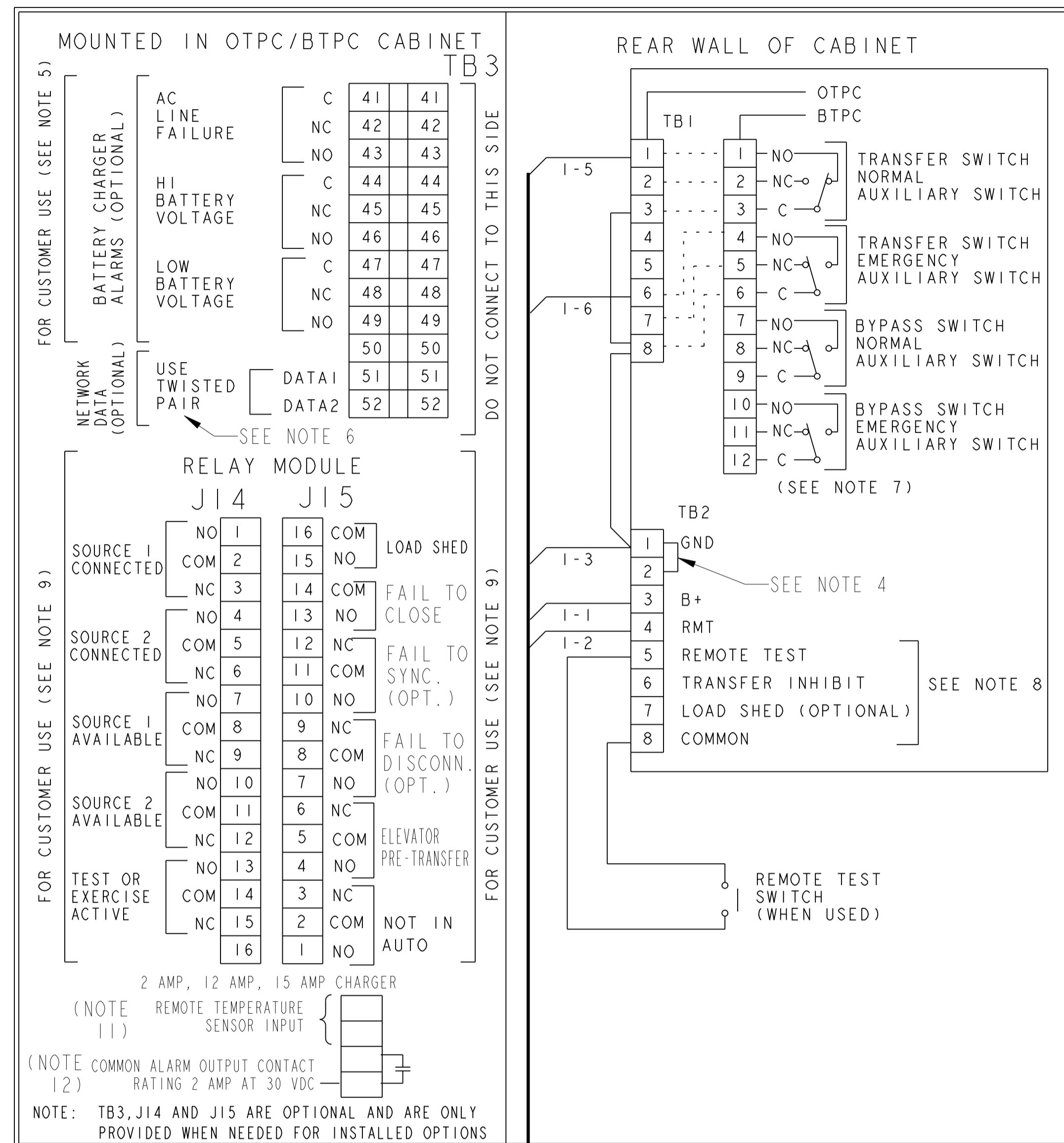
LAST DATUM LETTER USED: -		LAST REFERENCE LETTER USED: -	
MODEL/PLATFORM: OTPC/BTPC		THIS PART IS SIMILAR TO: 0630-1975	
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY			
DIMENSIONAL TOLERANCES:		ANG. TOL.: ± 1°	
X ± 1		.XX ± 0.38	
X ± 0.8		.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.			
DIMENSIONS ARE IN: MILLIMETERS		SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994		THIRD ANGLE PROJECTION	
		CAD SYSTEM: PTC® Creo® Parametric	

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

CUMMINS GENERATOR SET
WITH PCC1302, PCC1.X, PCC2.X, PCC3.X CONTROL



OTPC & BTPC UTILITY TO GENSET



- NOTES:
- WIRE SIZES MUST BE AS FOLLOWS:
RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE MUST BE INCREASED IF A BATTERY CHARGER IS INSTALLED IN THE SWITCH.
WITH NO BATT CHARGER-LEADS 1-1, -2, -3, -5, -6 USE COL. A.
WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1, & 1-3 USE COL. B.
WITH 12/15 AMP CHARGER MAXIMUM VOLTAGE DROP OF 1.5 VOLTS, LEADS 1-1 & 1-3 USE COL. C.
WITH 2 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. D.
WITH 12/15 AMP CHARGER, MAXIMUM VOLTAGE DROP OF 0.75 VOLTS, LEADS 1-1, & 1-3 USE COL. E. TO MEET THE NFPA110 REQUIREMENT TO RETURN A FULLY DISCHARGED BATTERY TO 100% OF IT'S AMPERE-HOUR RATING WITHIN 24 HOURS USE COL. E.
 - RUN #2-GENSET TO ANNUNCIATOR-ALL LEADS, USE COL. A
 - FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
 - INSTALL JUMPER BETWEEN TB2-1 & TB2-2.
 - CONTACTS RATED: 4 AMPS AT 30 VDC OR 120V MAX.
 - USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
 - TRANSFER SWITCH SHOWN CLOSED TO NORMAL BYPASS SWITCH SHOWN IN NEUTRAL POSITION.
 - CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED. CLOSE TO ACTIVATE.
 - CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
 - REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
 - USE THE INVENTER REMOTE TEMPERATURE PROBE (0193-0530).
 - THE FOLLOWING FAILS WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
LOW BATTERY VOLTAGE, HIGH BATTERY VOLTAGE, LOW AC INPUT VOLTAGE, HIGH AC INPUT VOLTAGE, OVERCURRENT, HIGH CHARGER TEMPERATURE, BATTERY FAILURE, HIGH BATTERY TEMPERATURE (NOT AVAILABLE ON 2 AMP CHARGER).
 - NETWORK CONNECTIONS: 18 GA TWISTED PAIR OR CAT 5 CABLE. TOTAL NETWORK LENGTH CANNOT EXCEED 4000 FEET. UP TO 20 NODES CAN BE CONNECTED TO THE NETWORK. (NOTE: ANY COMMUNICATIONS WIRE CONNECTED TO THE GENSET MUST BE STRANDED CABLE.)
 - CUSTOMER SUPPLIED FUSED B+ SOURCE. USE AT LEAST 5 AMP FUSE, WIRE SIZE, USE COL. A.

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)				
	A	B	C	D	E
16	1000	90	-	50	-
14	1600	150	20	80	5
12	2400	225	30	125	10
10	4000	350	50	200	15
8	-	600	80	300	25
6	-	1000	125	500	40

LAST DATUM LETTER USED: - LAST REFERENCE LETTER USED: -

MODEL/PLATFORM: OTPC/BTPC THIS PART IS SIMILAR TO: 0630-1975

UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY ANG. TOL.: ± 1°

DIMENSIONAL TOLERANCES: X ± 1 .X ± 0.8 .XX ± 0.38

HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
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Cummins Inc.

DIMENSIONS ARE IN: MILLIMETERS SIZE: A1 SCALE: 1/1

DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994 THIRD ANGLE PROJECTION CAD SYSTEM: PTC® Creo® Parametric

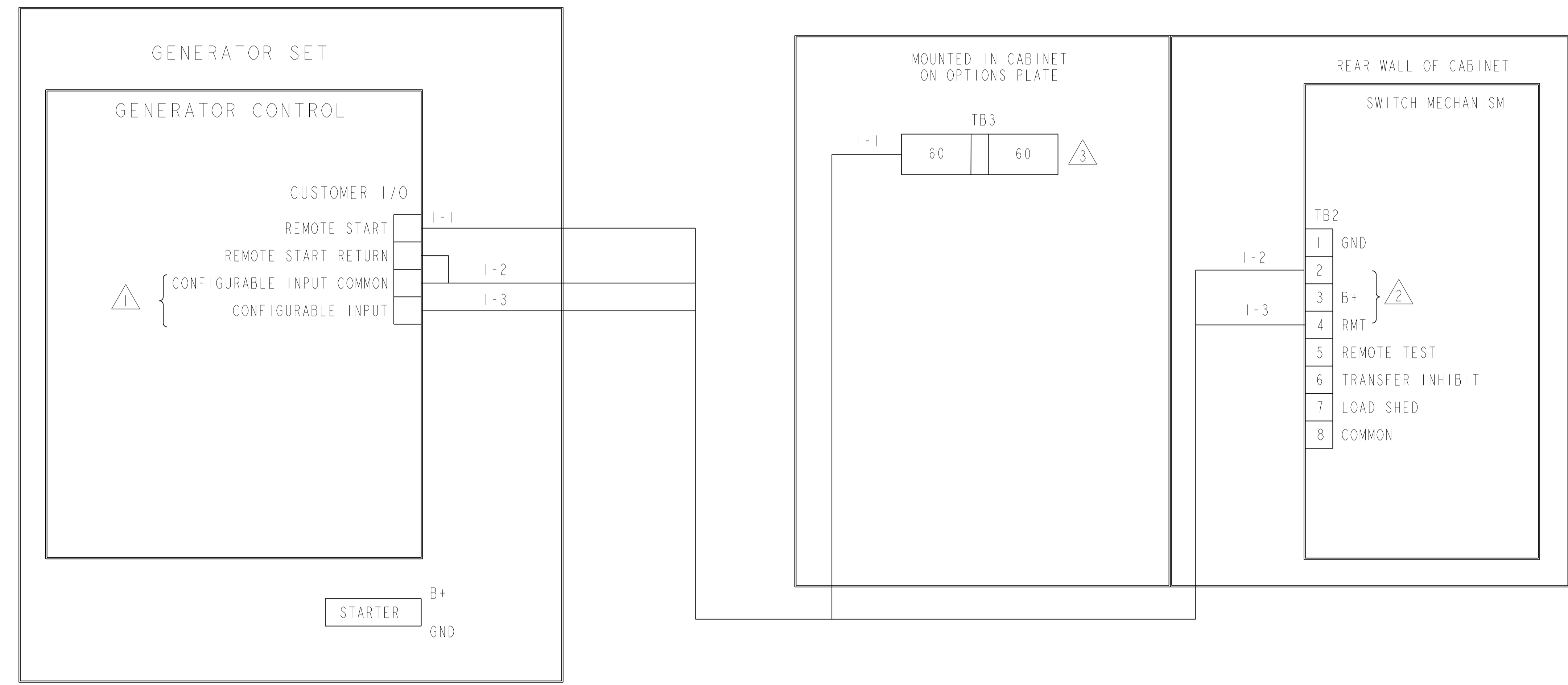
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

NFPA 70 ARTICLE 700.10(D)(3) COMPLIANT
GENERATOR CONTROL WIRING

CUMMINS PCC 1302, PCC2300, PCC3300
GENERATOR SET CONTROLS

SINGLE ATS CONFIGURATION

TRANSFER SWITCH



NOTES:

- 1 THESE PHYSICAL CONNECTIONS CAN BE ANY OF THE ONBOARD CONFIGURABLE CUSTOMER INPUTS AVAILABLE FROM THE GENSET CONTROL BOARD OR AUX 101 OR 102 BOARDS CONFIGURED FOR FUNCTION POINTER "START SIGNAL INTEGRITY".
- 2 FOR BTPC E,F,G,H,J (1200A-4000A), REVERSE THE TRANSFER SWITCH TB2-2 AND TB2-4 CONNECTIONS SUCH THAT TB2-4 CONNECTS TO GENSET I/O COMMON.
- 3 TB3-60 IS FACTORY WIRED TO ATS CONTROL PCB J27-10. SEE TRANSFER SWITCH WIRING DIAGRAM CUSTOMER CONNECTIONS PAGE FOR DETAILS
- 4. REFERENCE TECHNICAL SERVICE BULLETIN TSB180133 FOR ADDITIONAL INFORMATION.

LAST DATUM LETTER USED: -		LAST REFERENCE LETTER USED: -		Cummins Inc.		
MODEL/PLATFORM: OTPC/BTPC		THIS PART IS SIMILAR TO: 0630-1975		DIMENSIONS ARE IN: MILLIMETERS		
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY				ANG. TOL.: ± 1°		SIZE: A1 SCALE: 1/1
DIMENSIONAL TOLERANCES:				.X ± 0.8		DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08		HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10		HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13		
				HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13		THIRD ANGLE PROJECTION
						CAD SYSTEM PTC® Creo® Parametric

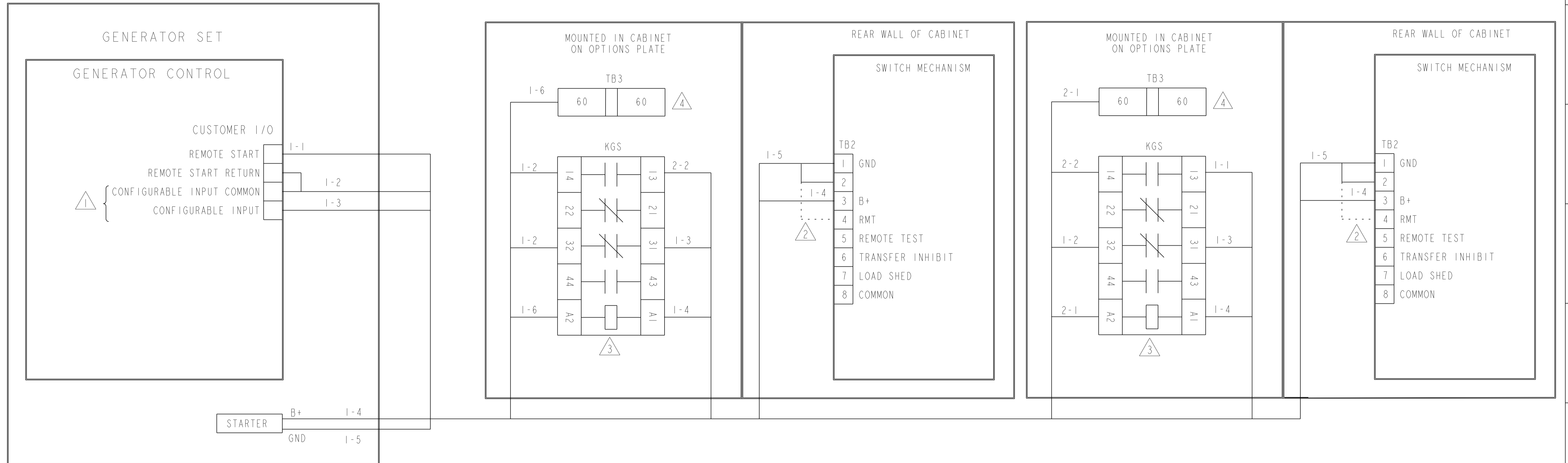
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

NFPA 70 ARTICLE 700.10(D)(3) COMPLIANT
 GENERATOR CONTROL WIRING
 CUMMINS PCC 1302, PCC 2300, PCC 3300
 GENERATOR SET CONTROLS

DUAL ATS CONFIGURATION

TRANSFER SWITCH-1

TRANSFER SWITCH-2



NOTES:

1. THESE PHYSICAL CONNECTIONS CAN BE ANY OF THE ONBOARD CONFIGURABLE CUSTOMER INPUTS AVAILABLE FROM THE GENSET CONTROL BOARD OR AUX 101 OR 102 BOARDS CONFIGURED FOR FUNCTION POINTER "START SIGNAL INTEGRITY".
2. FOR BTPC E,F,G,H,J (1200A-4000A), JUMPER GND TO TB2-4 INSTEAD OF TB2-2.
3. KGS IS NOT PROVIDED STANDARD. RELAY CAN BE ORDERED BY SELECTING FEATURE L101-7 OR L201-7 WHEN CONFIGURING PRODUCT OR AS AN ACCESSORY KIT.
4. TB3-60 IS FACTORY WIRED TO ATS CONTROL PCB J27-10. SEE TRANSFER SWITCH WIRING DIAGRAM CUSTOMER CONNECTIONS PAGE FOR DETAILS.
5. REFERENCE TECHNICAL SERVICE BULLETIN TSB180133 FOR ADDITIONAL INFORMATION.

LAST DATUM LETTER USED: -		LAST REFERENCE LETTER USED: -	
MODEL/PLATFORM: OTPC/BTPC		THIS PART IS SIMILAR TO: 0630-1975	
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY			
DIMENSIONAL TOLERANCES:		ANG. TOL.: ± 1°	
X ± 1	.X ± 0.8	.XX ± 0.38	
HOLE SIZE 0.00-4.99 TOL. +0.15/-0.08	HOLE SIZE 5.00-9.99 TOL. +0.20/-0.10	HOLE SIZE 10.00-17.49 TOL. +0.25/-0.13	HOLE SIZE 17.50-24.99 TOL. +0.30/-0.13
Cummins Inc.			
DIMENSIONS ARE IN: MILLIMETERS () ARE IN: -		SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5M-1994		CAD SYSTEM PTC® Creo® Parametric	