



- 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, 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 ITS AMPERE-HOUR RATING WITHIN 24 HOURS USE COL E.
  - CONTACTS RATED: 3 AMPS AT 30 VDC OR 120V MAX.
  - CONNECTIONS TO TB1-12 THRU 14 ON GENSET ARE FOR CUSTOMER USE AND MAY BE CONFIGURED TO DISPLAY CUSTOM ALARM MESSAGES ON GENSET CONTROL. LOW FUEL IS REQUIRED FOR NFPA110 COMPLIANCE.
  - INSTALL JUMPER BETWEEN TB2-1 & TB2-2.
  - TRANSFER SWITCH SHOWN CLOSED TO NORMAL
  - CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
  - CONFIGURATION SHOWN IS FOR ATS-MOUNTED BATTERY CHARGER. IF WALL-MOUNTED CHARGER IS USED, CONNECT B+ & GND FROM CHARGER DIRECTLY TO BATTERY.
  - MAXIMUM WIRE SIZE ON TB1 IS 12 AWG. WIRING MUST BE STRANDED.
  - REMOVE JUMPER BETWEEN TB1-15 & TB1-16 WHEN REMOTE E-STOP IS USED.

(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 GENERATOR CONNECTION DIAGRAM  
5

BY: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
REVISION HISTORY: \_\_\_\_\_

REV: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT # E0106D10  
DSN: JLB  
DRN: DRN  
CKD: CKD  
DATE: 10/20/21

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**ROMTEC UTILITIES**  
18240 NORTH BANK ROAD  
ROSEBURG, OREGON 97470  
PHONE: (541) 496-9678  
WWW.ROMTECUTILITIES.COM

HAVEN LIFT STATION  
CITY OF PORT ORCHARD, OR  
AUTOMATIC TRANSFER SWITCH  
TRIPLEX LIFT STATION

ELECTRICAL SHEET  
5 OF 14