

ALL DIMENSIONS SHOWN AS TYPICAL.  
FIELD TO VERIFY ALL FOUNDATION PLACEMENTS.

- NOTES:**
- ALL WIRING IN THE BUNGALOW IS #16 AWG FLEX UNLESS OTHERWISE NOTED.

APPROACH CIRCUIT DISTANCE CALCULATION	
BASE WARNING TIME	I S L A N D  O F L Y N G
PLUS TIME FOR CLEARANCE DISTANCE > 35'	
EQUALS PLANNED WARNING TIME	
PLUS TIME FOR EQUIPMENT RESPONSE	
PLUS TIME FOR TRAFFIC PRE-EMPTION	
EQUALS CIRCUIT APPROACH TIME	
TIMES MAXIMUM PLANNED TRAIN SPEED	
TIMES RATIO OF FEET PER SECOND TO MILE PER HOUR	
EQUALS APPROACH CIRCUIT DISTANCE WITH ANY FRACTIONAL VALUE INCREASED TO FULL UNIT	

**CABLE TABULATION**

HOUSE TO GATE #1	7C#6 & 7C#14
HOUSE TO GATE #2	7C#6 & 7C#14
HOUSE TO AC SERVICE	3C#4
HOUSE TO A & B RAIL CONNECTIONS	2C#6 TW PR

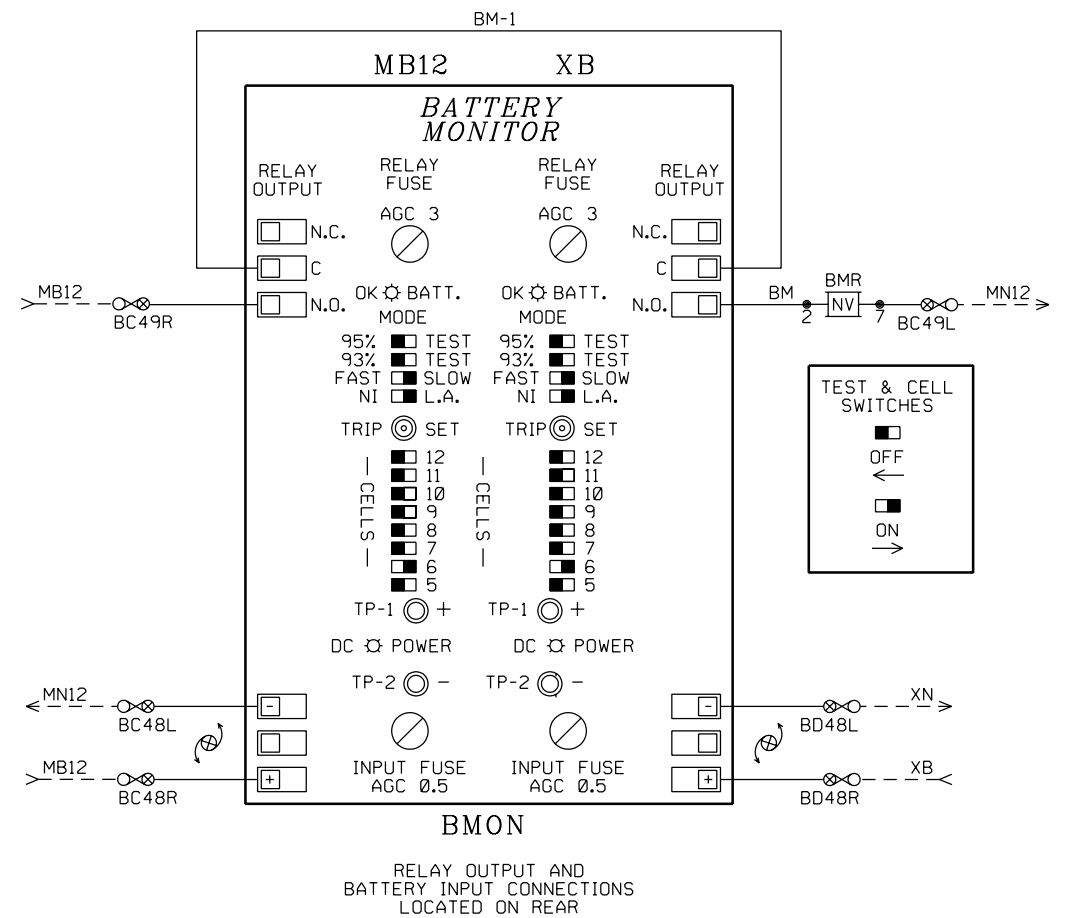
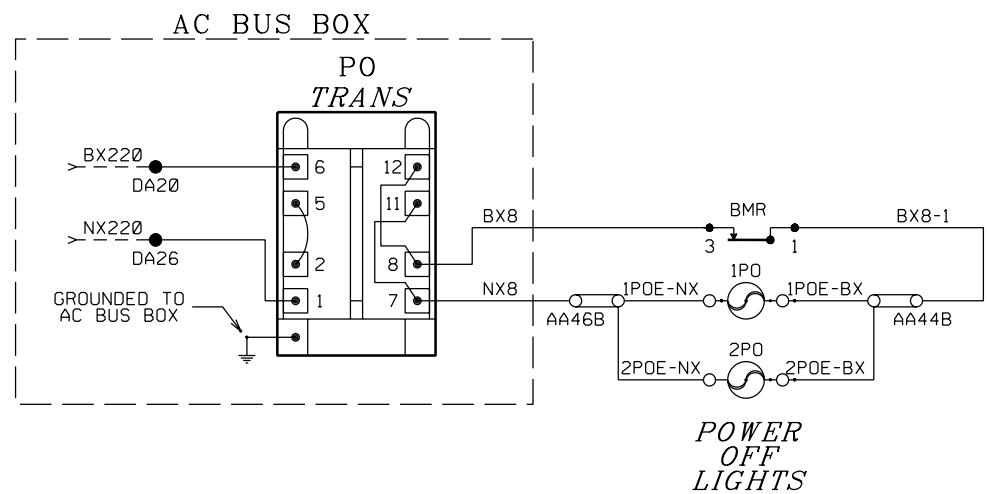
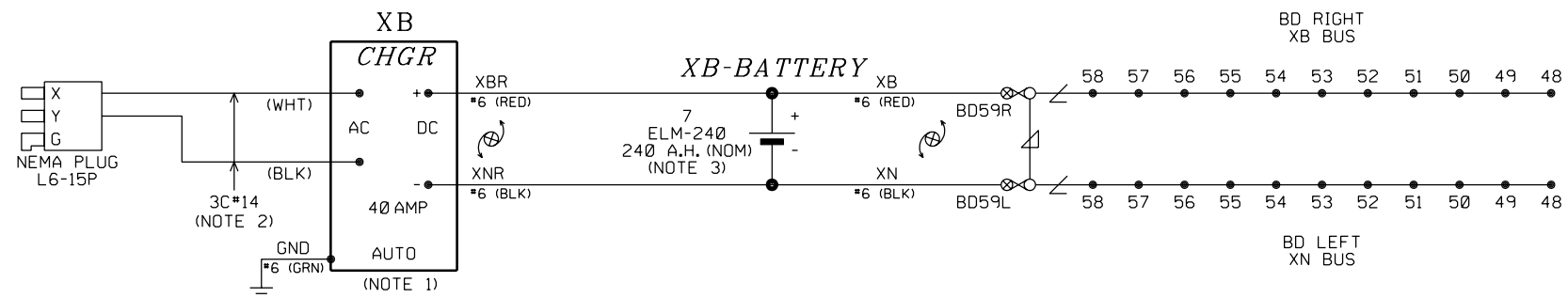
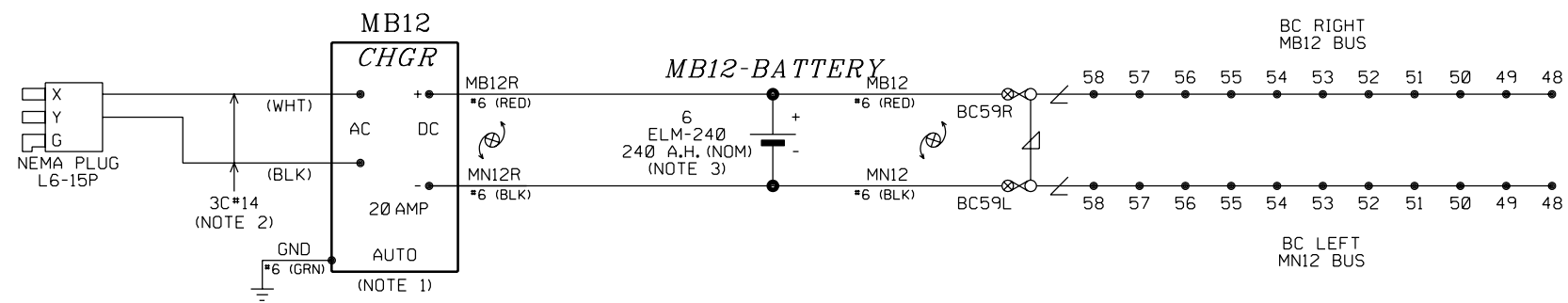
- LEGEND:**
- ⊗ -TEST TERMINAL
  - △ -EQUALIZER
  - ∠ -ARRESTER TO GROUND
  - ⊕ -TWISTED WIRE  
2 TURNS PER FOOT
  - -INSULATED NUT

REVISIONS							

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

MIDVALE  
ELECTRIC  
INC.

<b>AMPAC</b>		DRAWING NO. <b>A-100</b> SHEET 1 OF 11
DRAWN: A.P.D. DESIGNED: A.P.D. CHECKED: --- DATE: 08-16-13	CROSSING TRACK PLAN A STREET AUBURN, WASHINGTON MILEPOST#	



- NOTES:
1. USE 240 VOLT SETTING.
  2. GREEN GROUND CONDUCTOR NOT USED.
  3. USE 5/16" TERMINALS AT BATTERY CONNECTIONS.

REVISIONS

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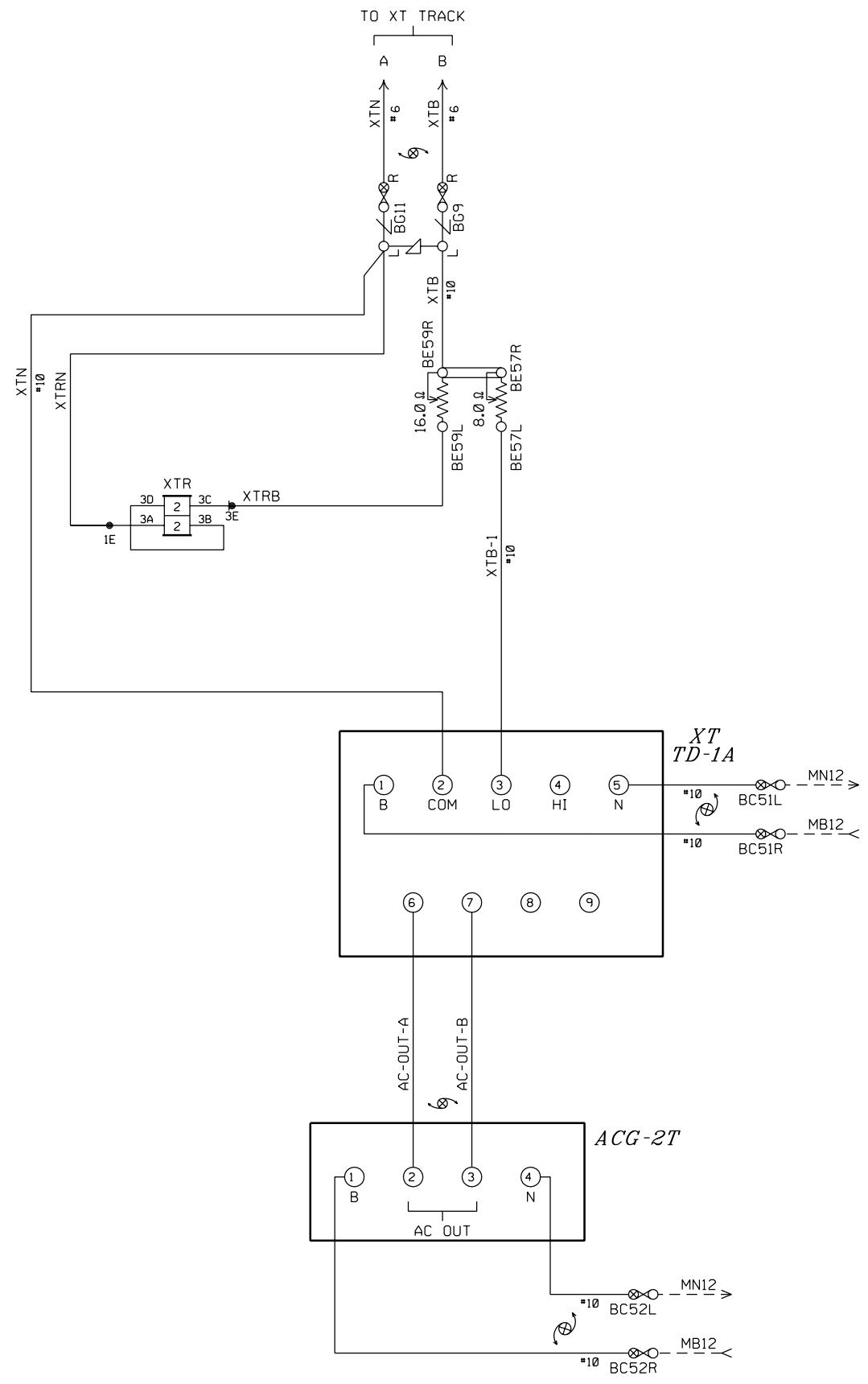
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BATTERY CIRCUITS  
A STREET  
AUBURN, WASHINGTON  
DOT\* MILEPOST\*

DRAWING NO.  
A-100  
SHEET 2 OF 11



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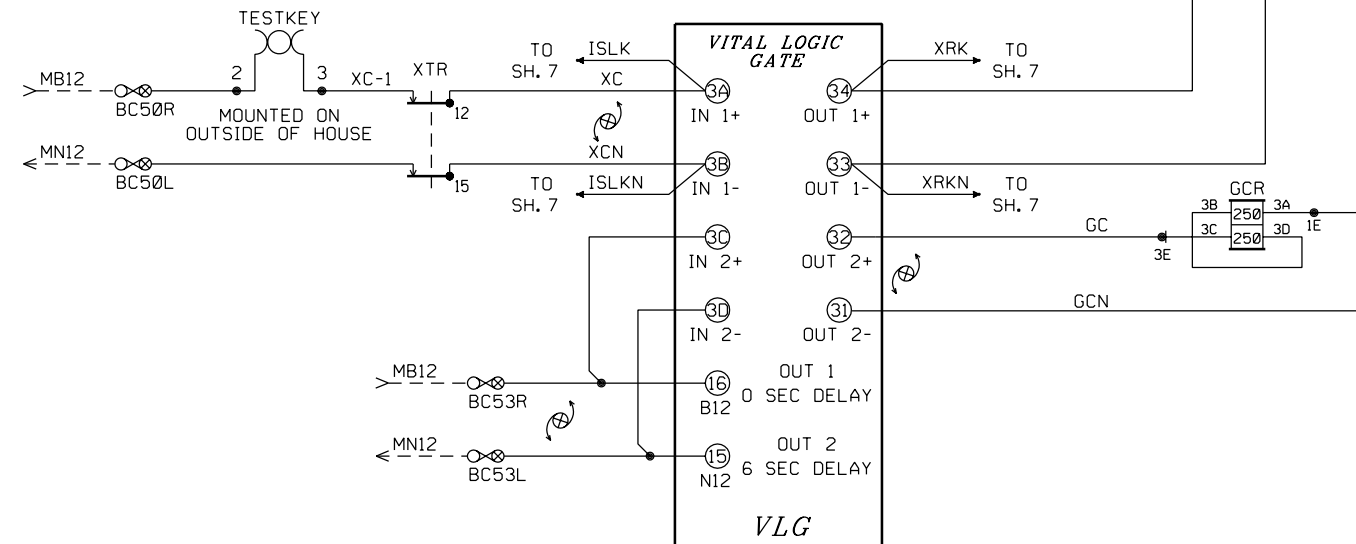
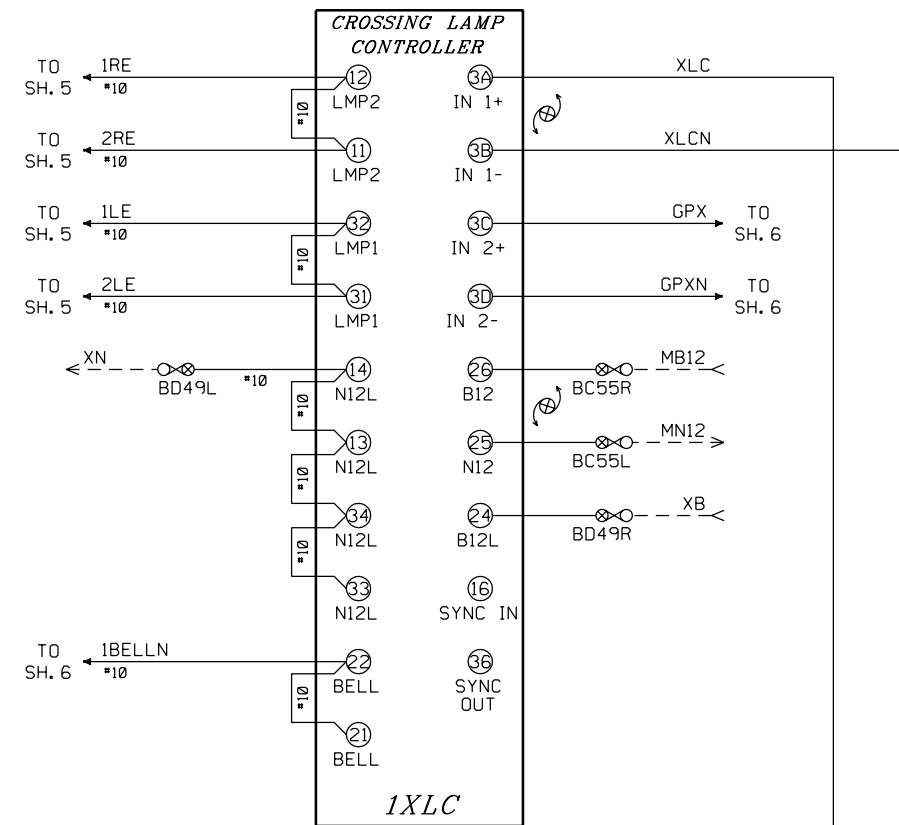
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TRACK CIRCUITS  
A STREET  
AUBURN, WASHINGTON  
DOT\* MILEPOST#

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A-100  
SHEET 3 OF 11



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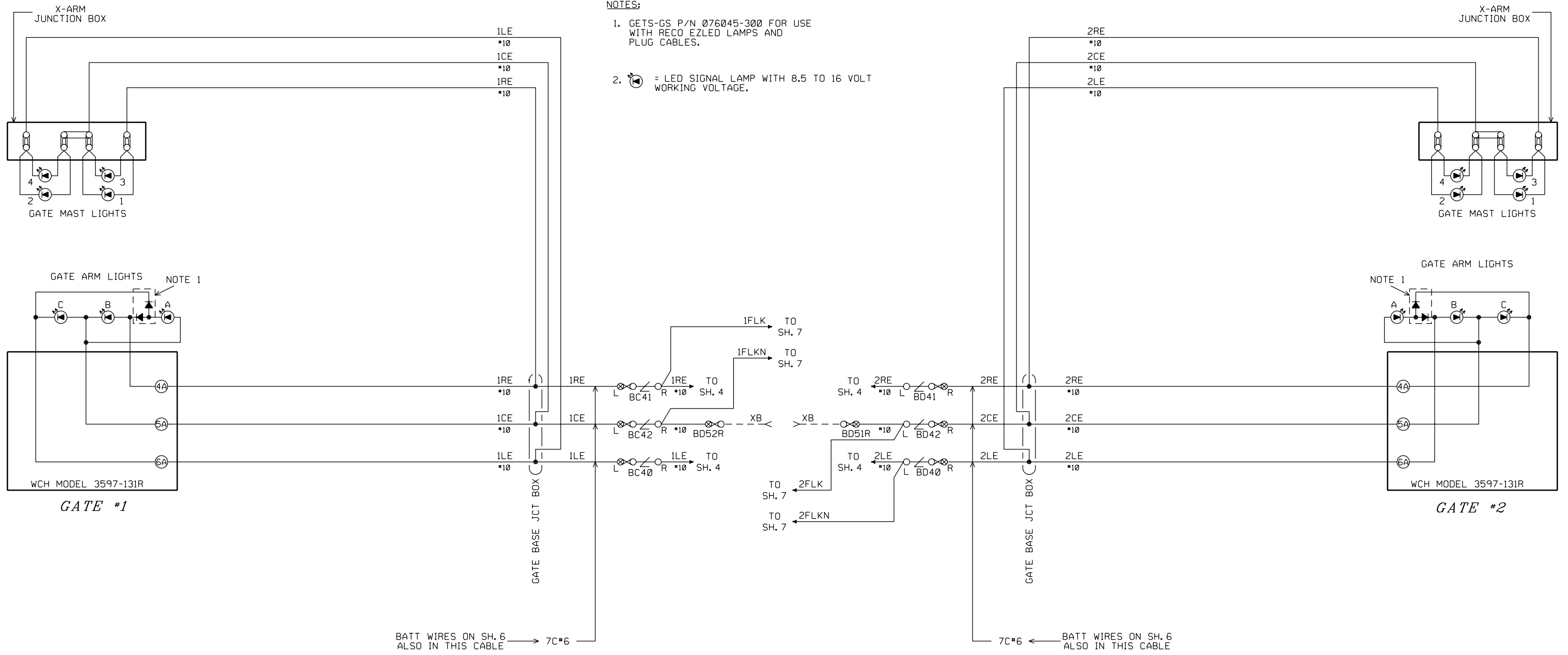
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FLASHING CONTROL  
A STREET  
AUBURN, WASHINGTON  
MILEPOST#

DRAWING NO.  
A-100  
SHEET 4 OF 11

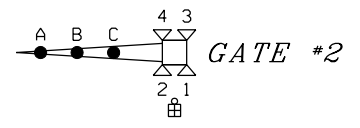
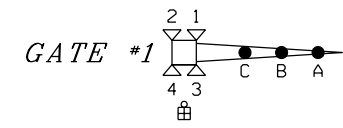
**NOTES:**

1. GETS-GS P/N 076045-300 FOR USE WITH RECO EZLED LAMPS AND PLUG CABLES.
2.  = LED SIGNAL LAMP WITH 8.5 TO 16 VOLT WORKING VOLTAGE.



BATT WIRES ON SH. 6 ALSO IN THIS CABLE → 7C\*6

← 7C\*6 BATT WIRES ON SH. 6 ALSO IN THIS CABLE



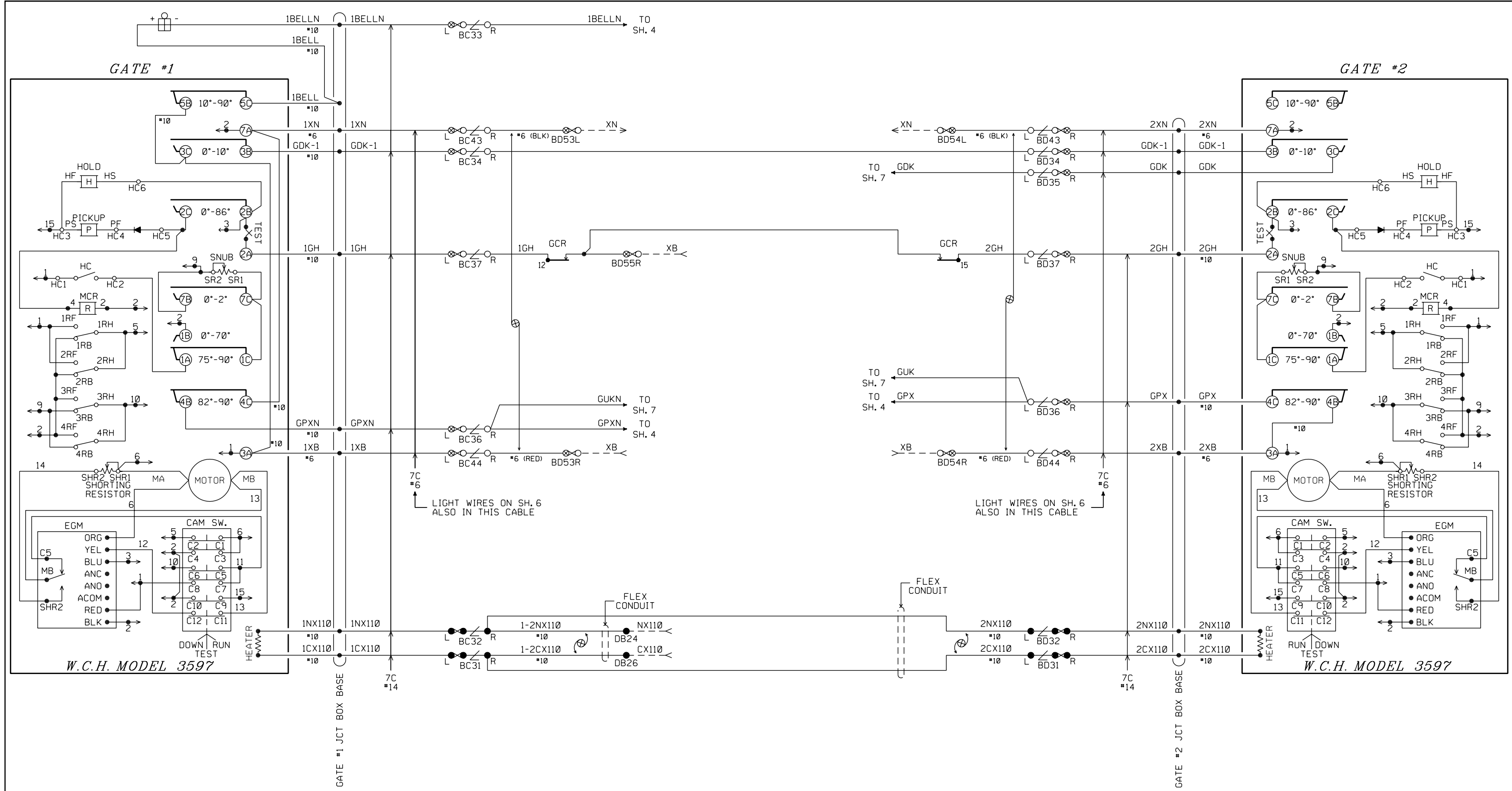
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NOTES:  
 1. GATE MECHS SHOWN IN CLEAR POSITION.

REVISIONS					

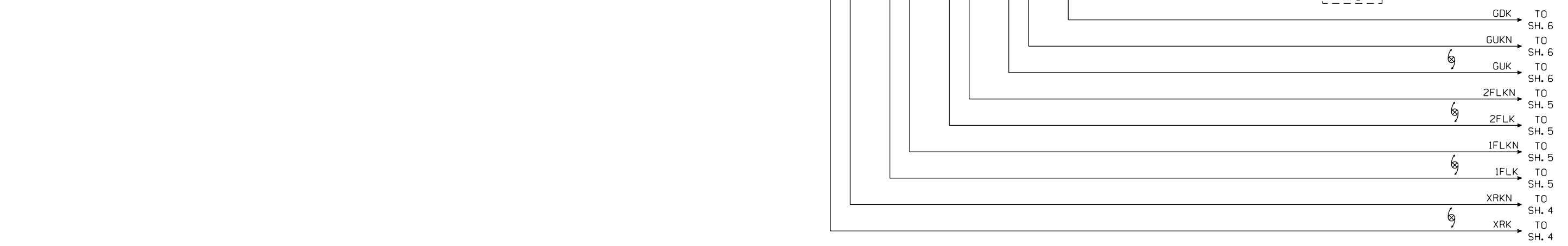
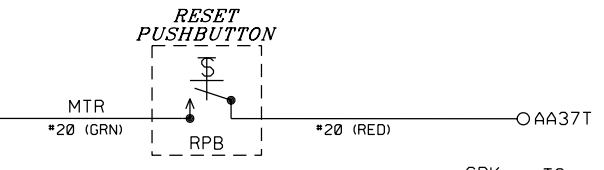
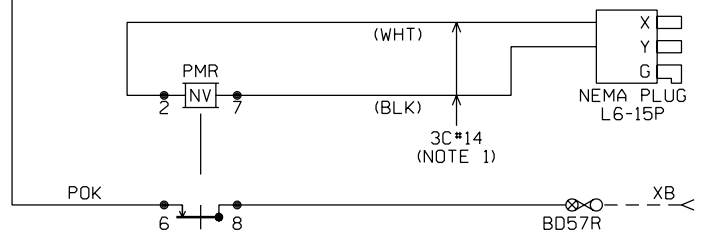
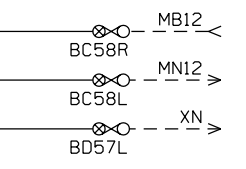
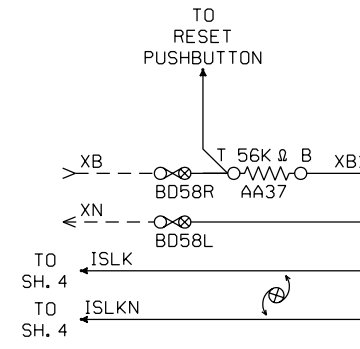
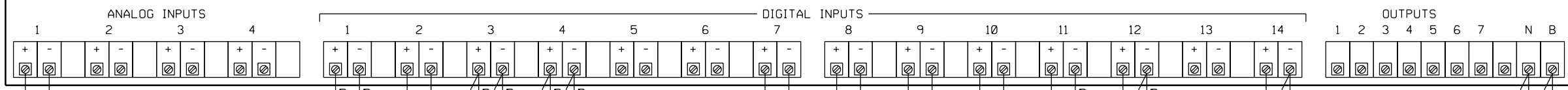
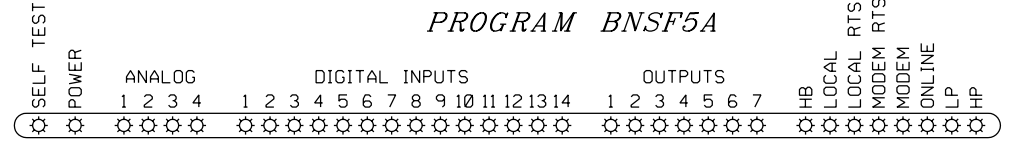
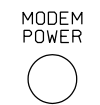
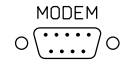
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MIDVALE  
ELECTRIC  
INC.

<b>AMPAC</b>		
GATE CONTROL & MECHANISMS A STREET AUBURN, WASHINGTON		
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HCA-1

PROGRAM BNSF5A



NOTES:  
1. GREEN GROUND CONDUCTOR NOT USED.

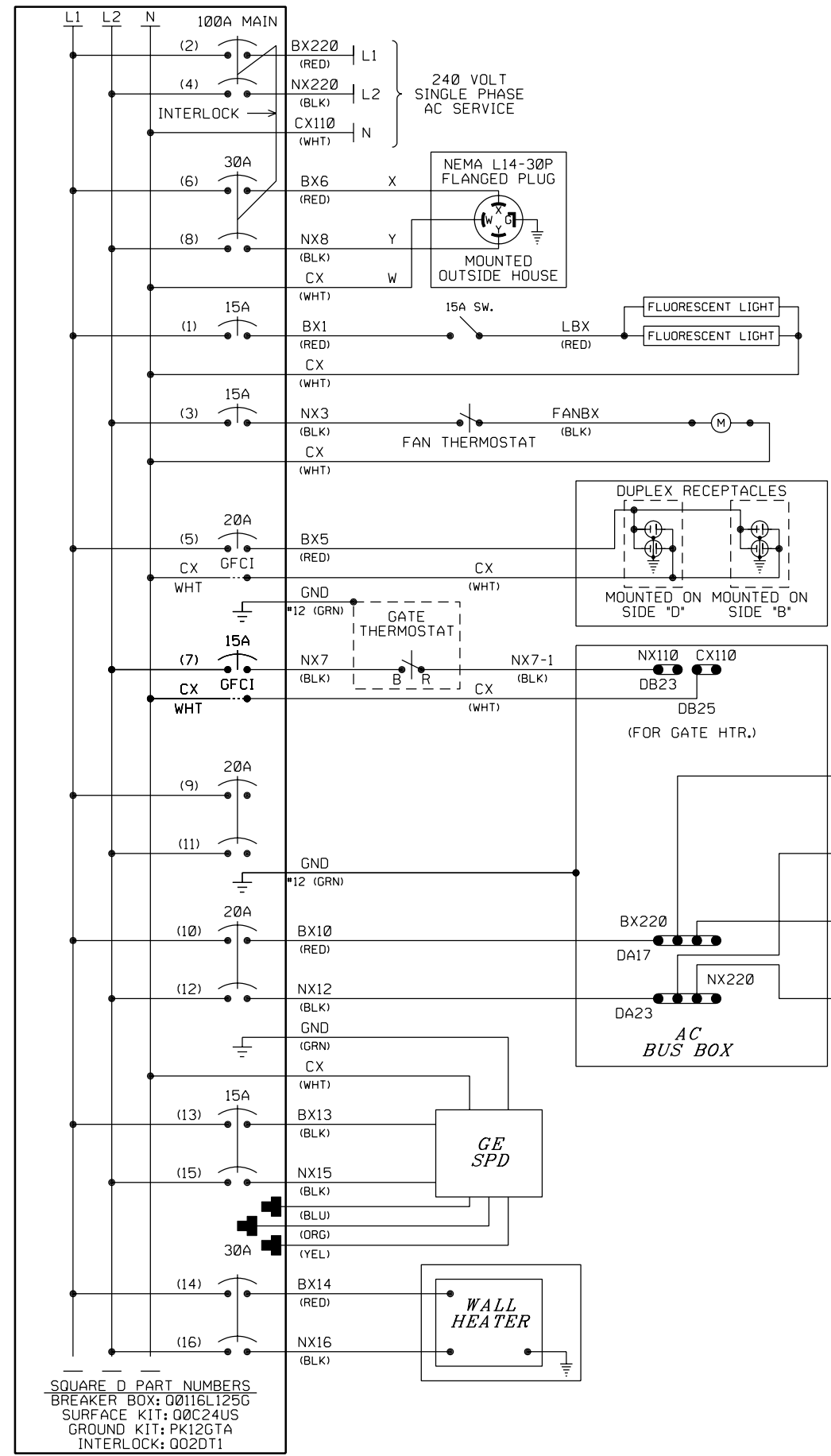
REVISIONS

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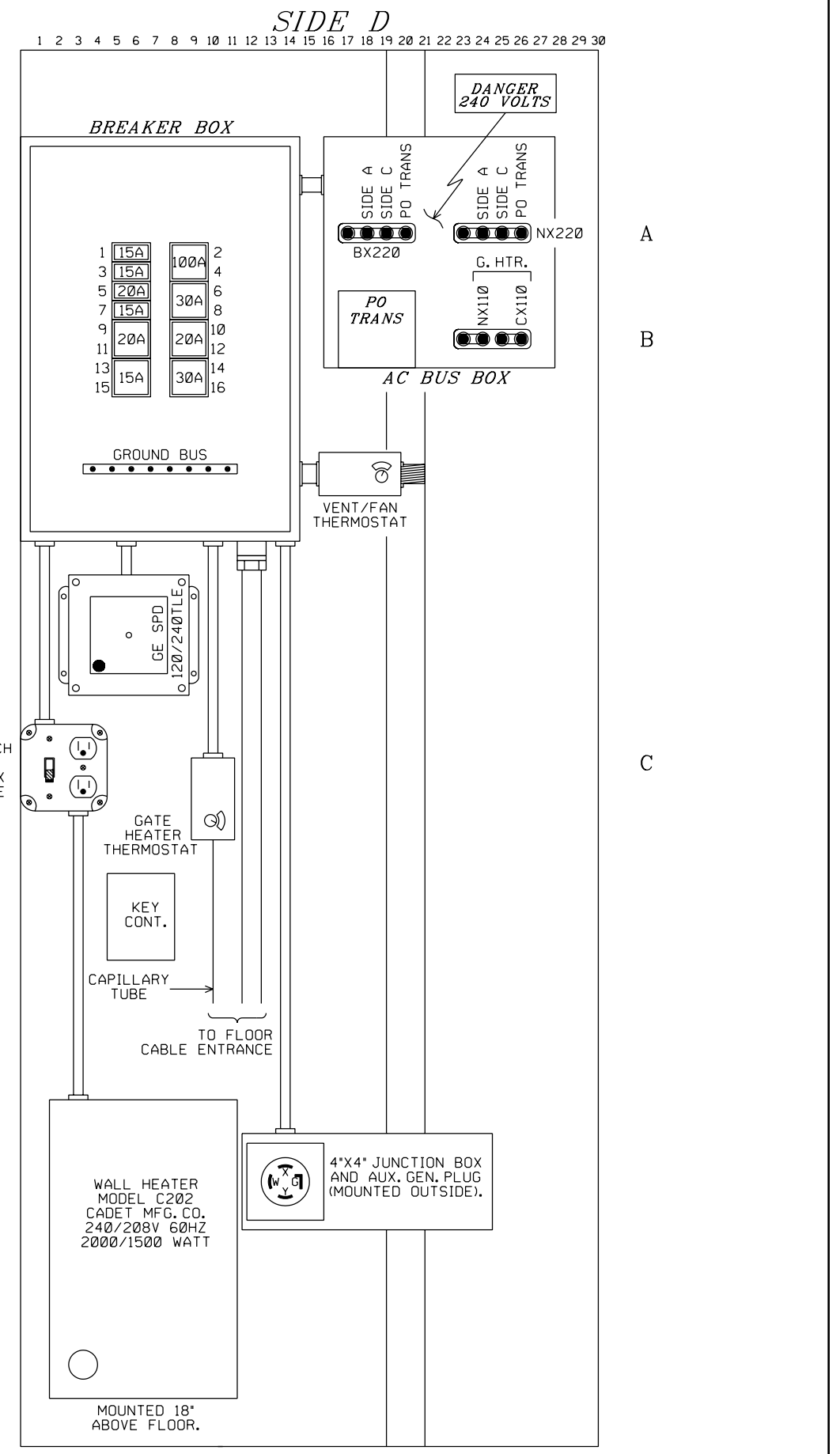
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- NOTES:
- USE THE FOLLOWING COLOR CODE:  
 GRN - GREEN - SAFETY EQUIPMENT GROUND  
 WHT - WHITE - CX110 (NEUTRAL)  
 BLK - BLACK - NX220 (L2)  
 RED - RED - BX220 (L1)  
 EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
  - MINIMUM WIRE SIZE  
 15 AMP - NO. 14 AWG THHN OR THWN SOLID  
 20 AMP - NO. 12 AWG THHN OR THWN SOLID  
 30 AMP - NO. 10 AWG THHN OR THWN SOLID
  - GROUND FAULT INTERRUPT (GFCI) MUST BE USED ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USED INSTEAD OF BREAKER TYPE.
  - ALL GROUND WIRES, THIS SHEET, RUN TO BREAKER BOX GROUND BUS



SQUARE D PART NUMBERS  
 BREAKER BOX: Q0116L125G  
 SURFACE KIT: Q0C24US  
 GROUND KIT: PK12GTA  
 INTERLOCK: Q02DT1

REVISIONS

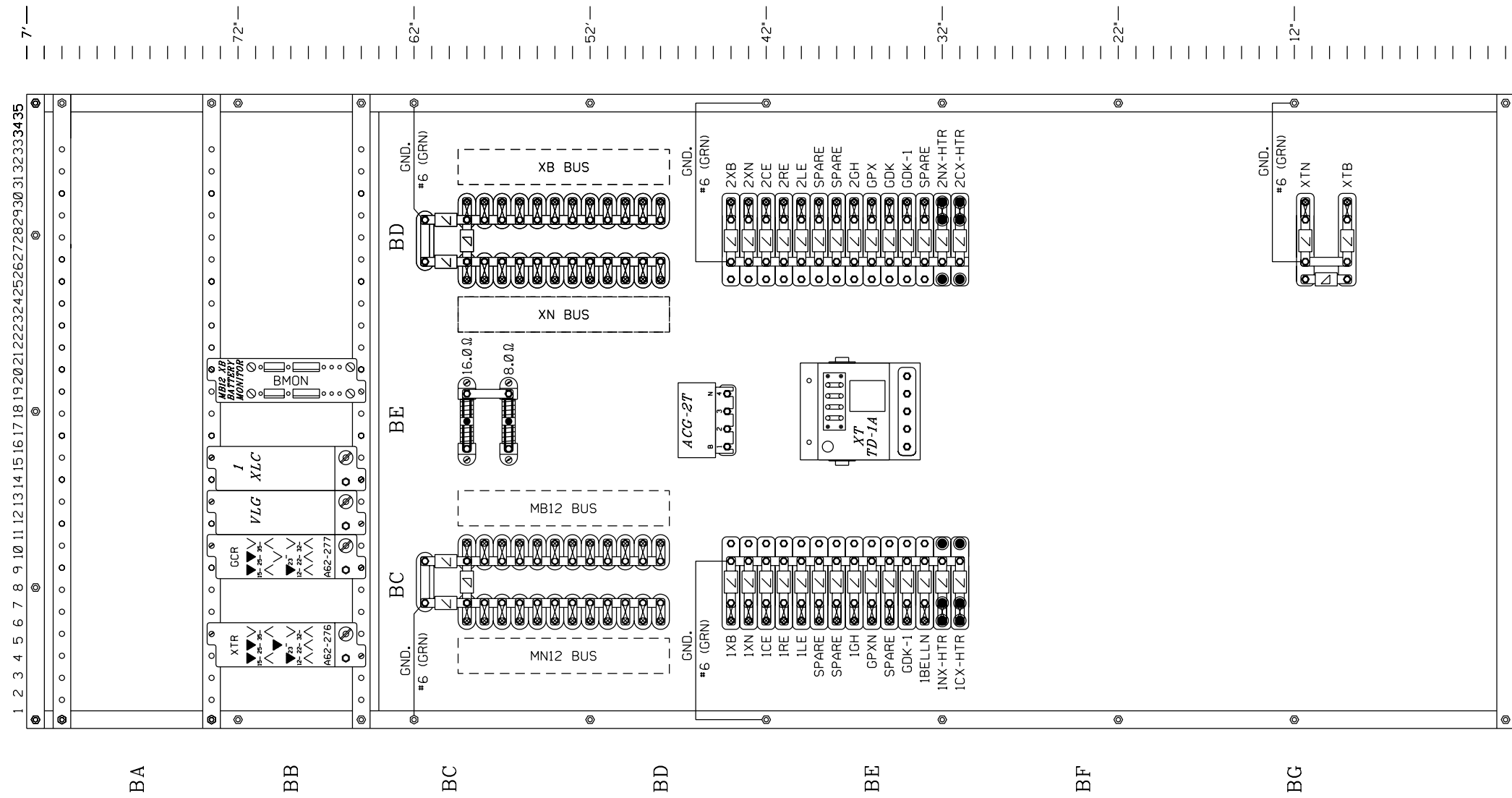
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CHECKED: ---	AUBURN, WASHINGTON	SHEET 8 OF 11
DATE: 08-16-13	DOT*	MILEPOST*





1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

7'0" X 36" TERMINAL BOARD

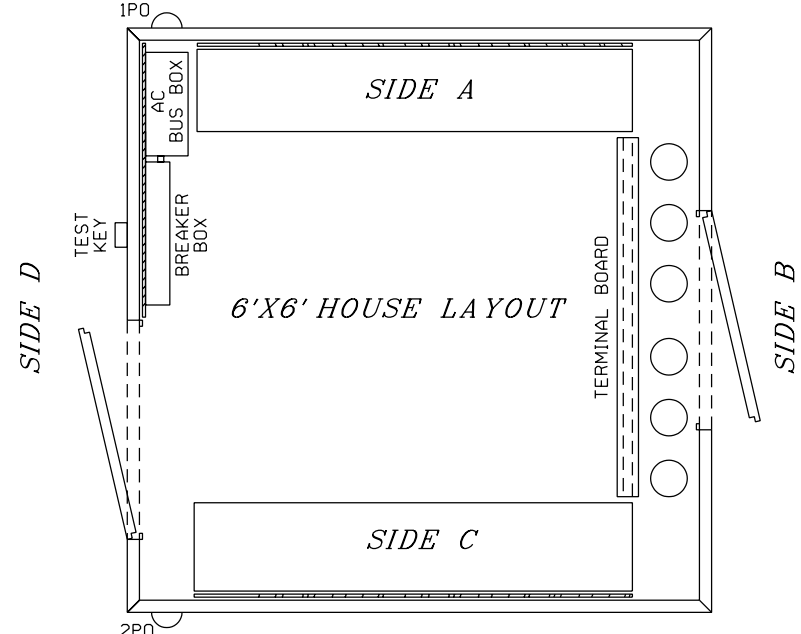
**BATTERY BUS DETAILS**

**ROW BC**

MB12 BATT(-)	59	MB12 BATT(+)	59
HCA N	58	HCA B	58
	57		57
	56		56
1XLC 25	55	1XLC 26	55
	54		54
VLG 15	53	VLG 16	53
ACG-2T N	52	ACG-2T B	52
XT-TD-1A N	51	XT-TD-1A B	51
XTR 16	50	TEST KEY 2	50
BMR 7	49	MB12 BMON N.O.	49
MB12 BMON(-)	48	MB12 BMON(+)	48
MN12 BUS (LEFT)		MB12 BUS (RIGHT)	

**ROW BD**

XB BATT(-)	59	XB BATT(+)	59
HCA AI01(-)	58	AA37T	58
HCA DI14(-)	57	PMR 8	57
	56		56
	55	GCR 13	55
BD43L	54	BD44L	54
BC43R	53	BC44R	53
	52	BC42R	52
	51	BD42L	51
	50		50
1XLC 14	49	1XLC 24	49
XB BMON(-)	48	XB BMON(+)	48
XN BUS (LEFT)		XB BUS (RIGHT)	



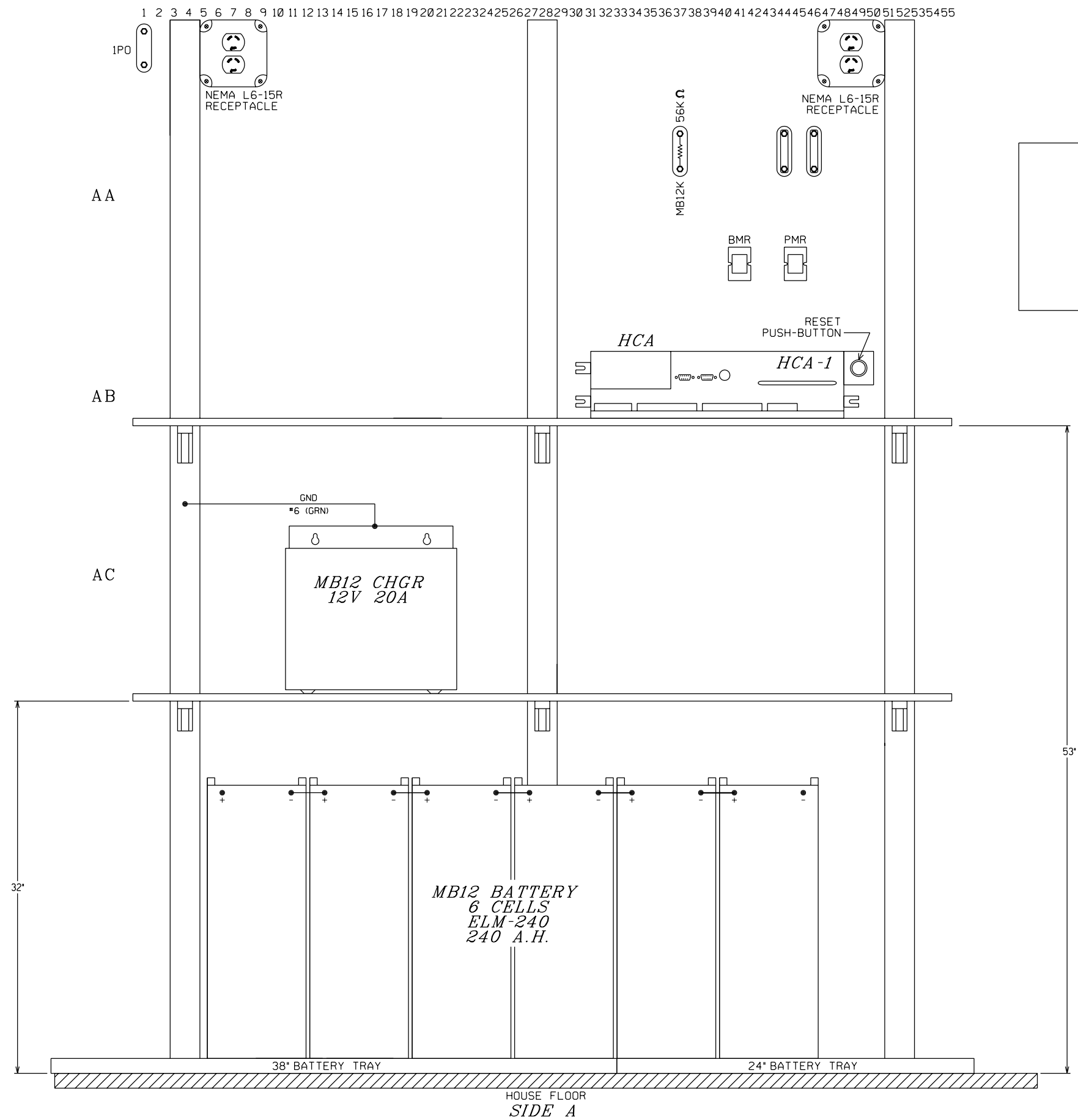
**REVISIONS**

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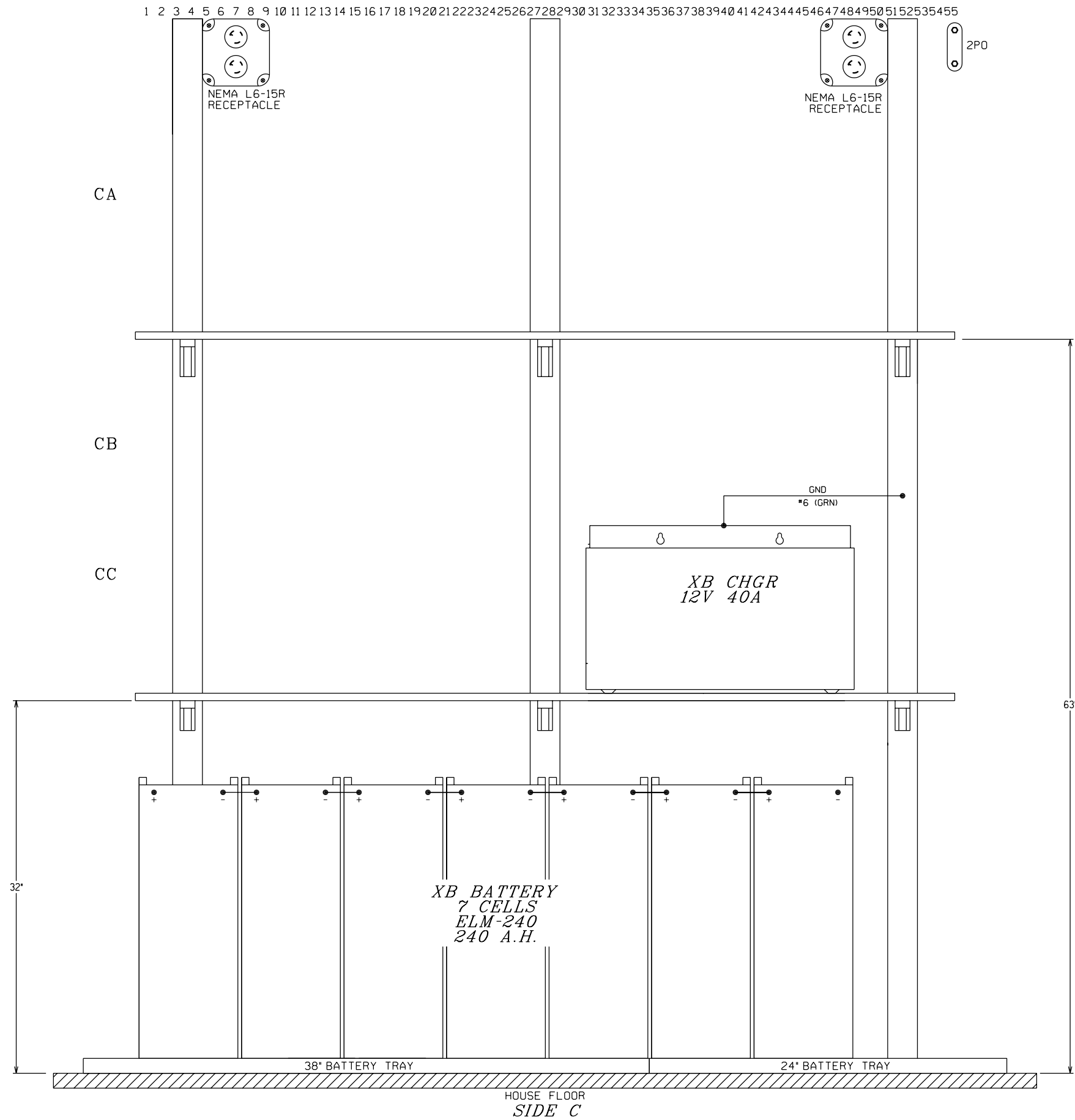
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SIDE A LAYOUT  
A STREET  
AUBURN, WASHINGTON  
MILEPOST#

DRAWING NO.  
A-100  
SHEET 10 OF 11



REVISIONS

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