

Oct. 20, 1964

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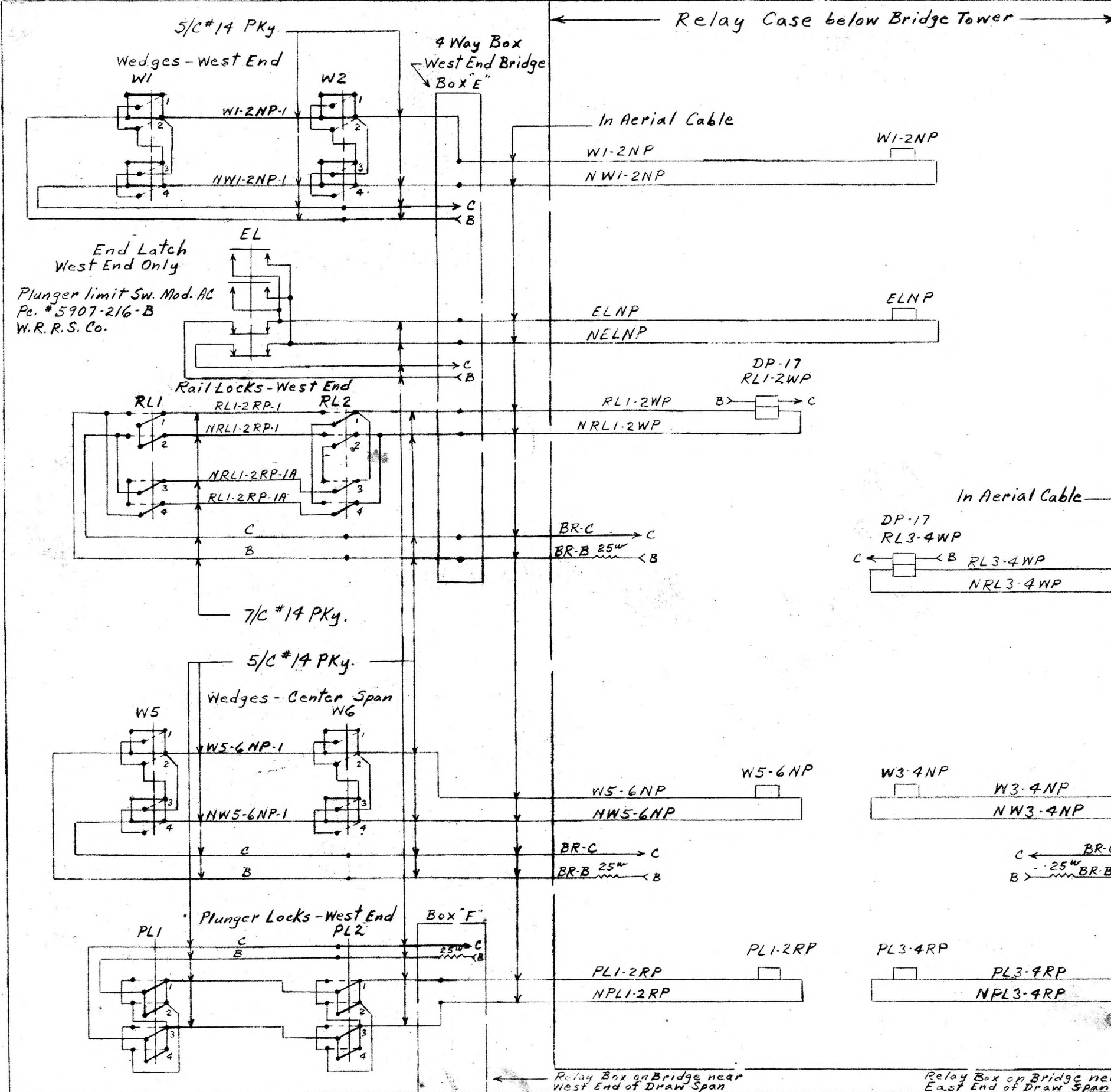
Installed:

Drawn by: M.E.S.

Checked by:

Approved:

H.L.



Repeater Relays for Rail Locks, Wedges, & End Latch Alignment

SWITCH CIRCUIT CONTROLLER ADJUSTMENT

Circuit controllers RL1-RL2-RL3-RL4:

- a. Contacts 1 and 2 adjusted to open relay circuit when locking pin is within 1" of full unlocked position, and to close shunt circuit, maintaining shunt while reverse.
- b. Contacts 3 and 4 adjusted to open shunt circuit when locking pin is within 1/8" of full lock position and close relay circuit, maintaining closed reverse.

Circuit controllers PL1-2-PL3-4:

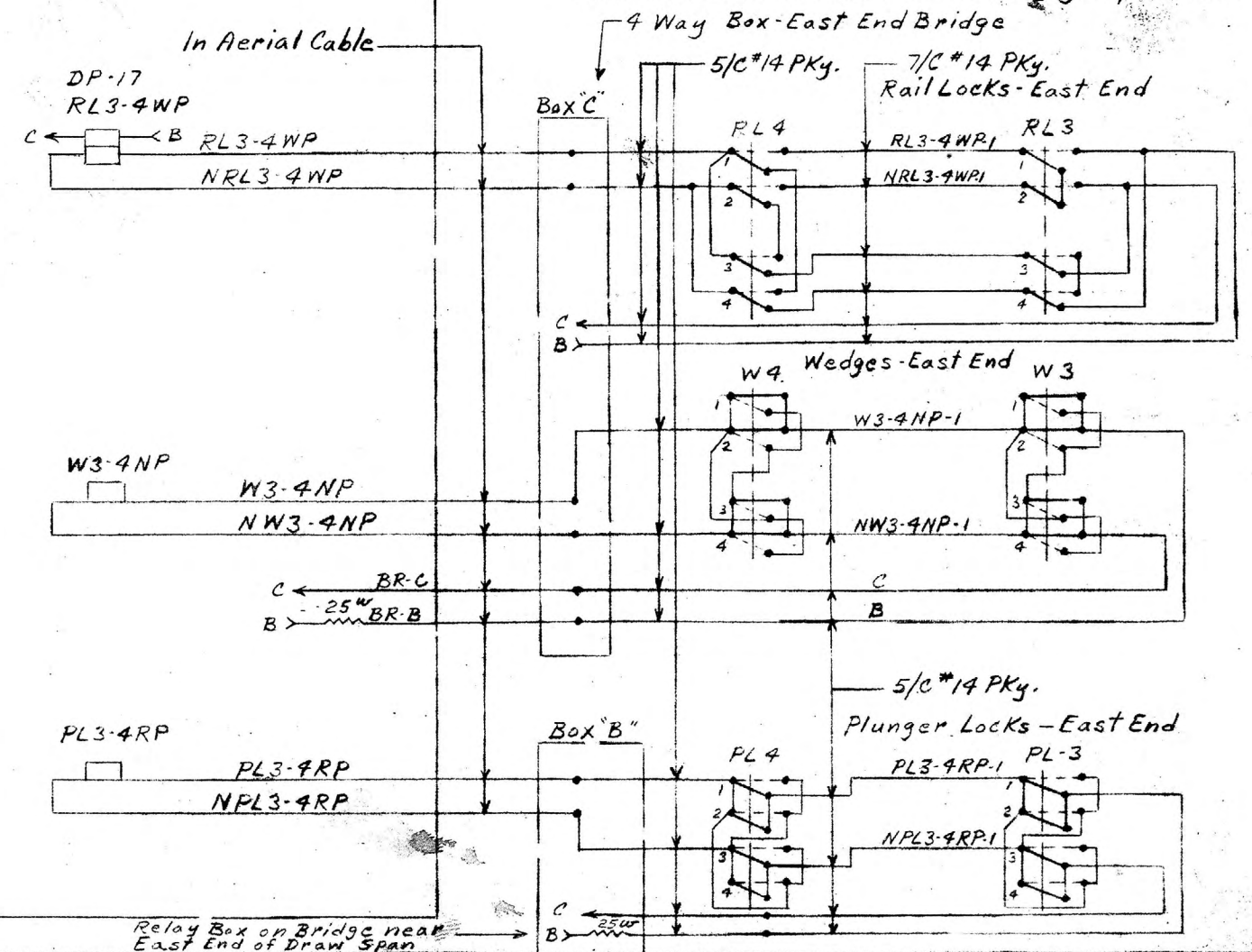
- a. Contacts 1-2-3-4 adjusted to open RP relay circuit when locking rod is within 1" of full unlocked position.

Circuit controllers W1-W2-W3-W4-W5-W6:

- a. Contacts 1-2-3-4 adjusted to close NP relay circuit when Wedge is within 1" of full engaged position.

Circuit controllers EL:

- Contacts adjusted to close NP relay circuit when Latch is within 1" of full engaged position.



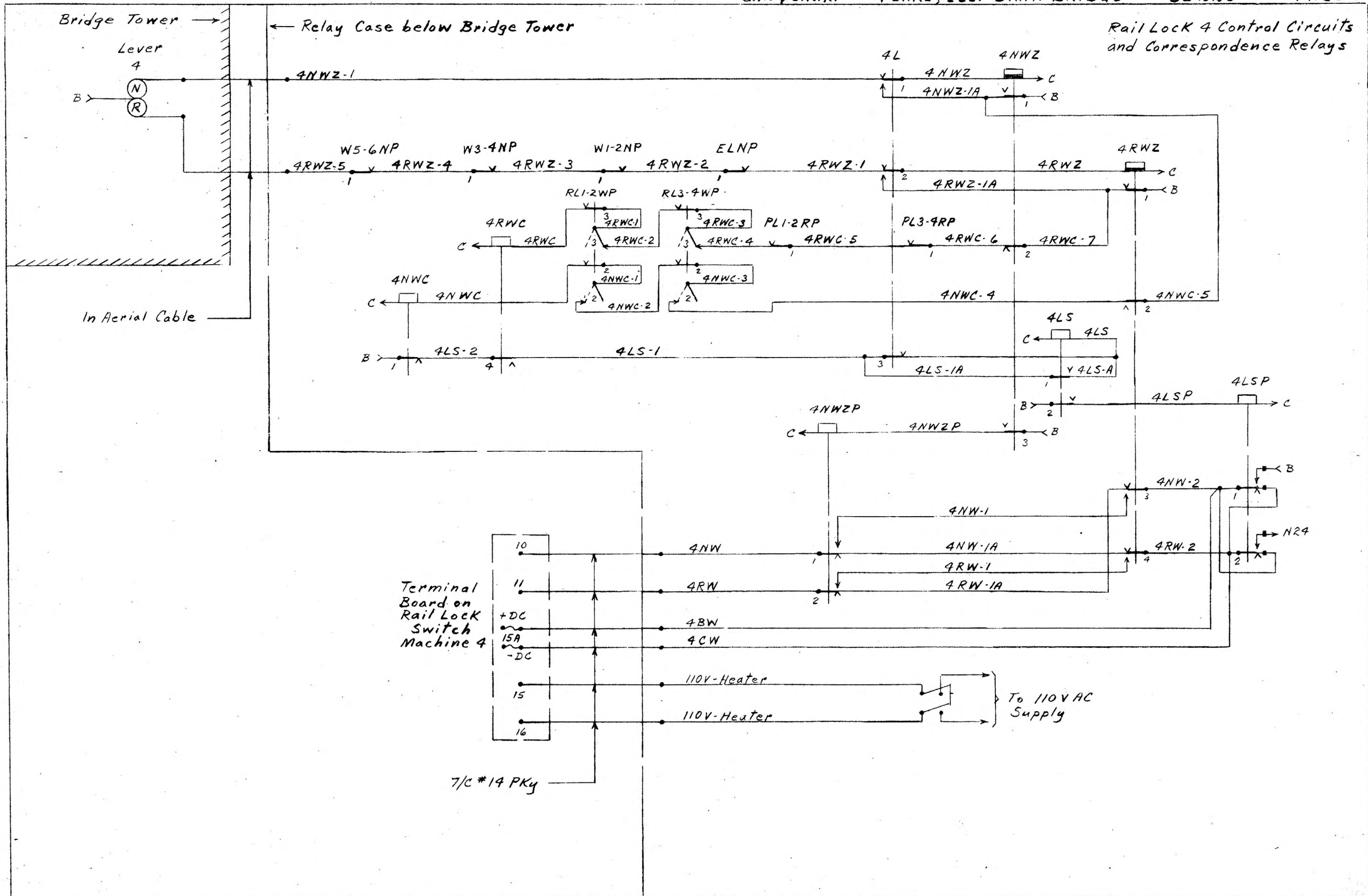
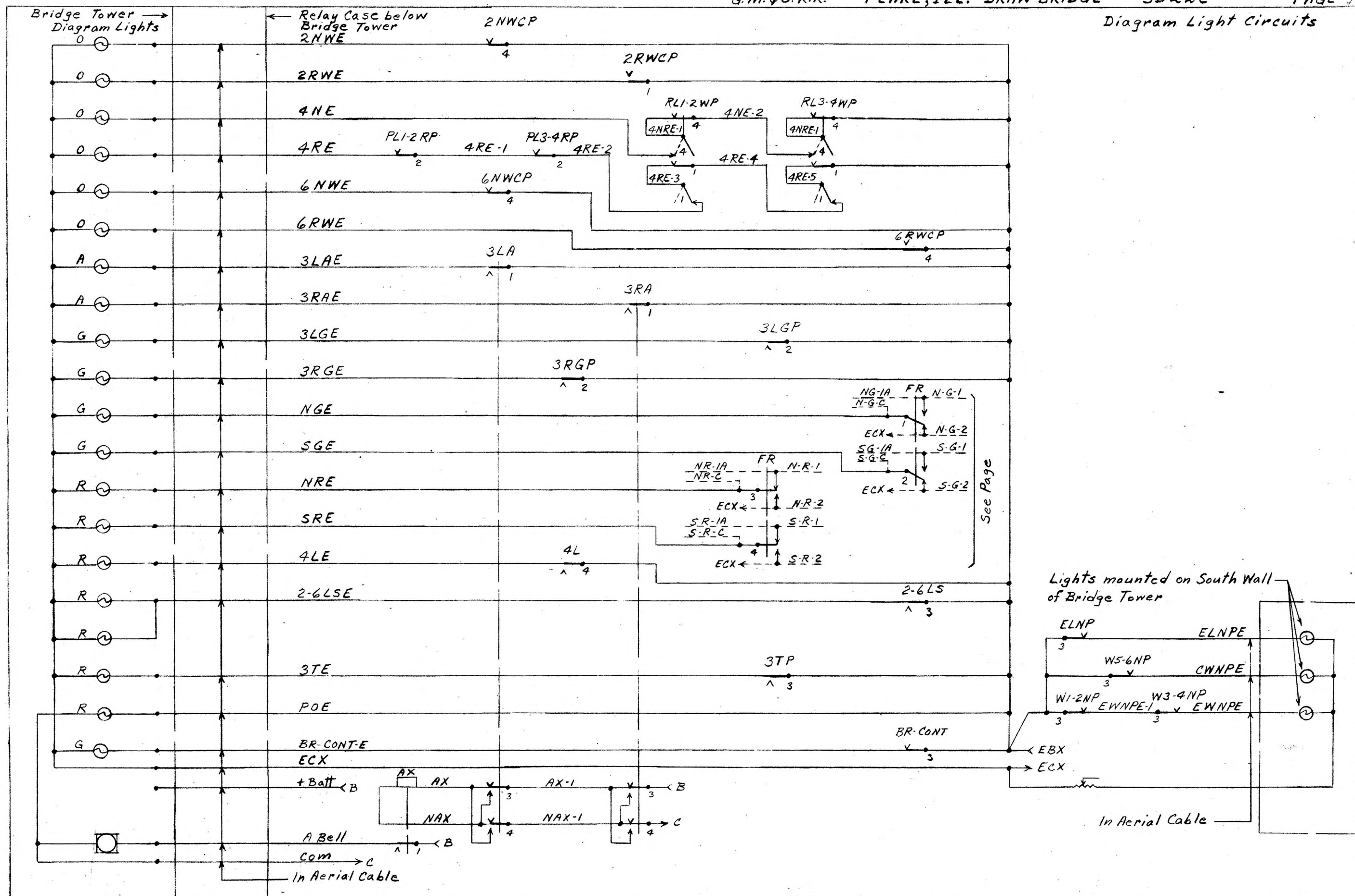
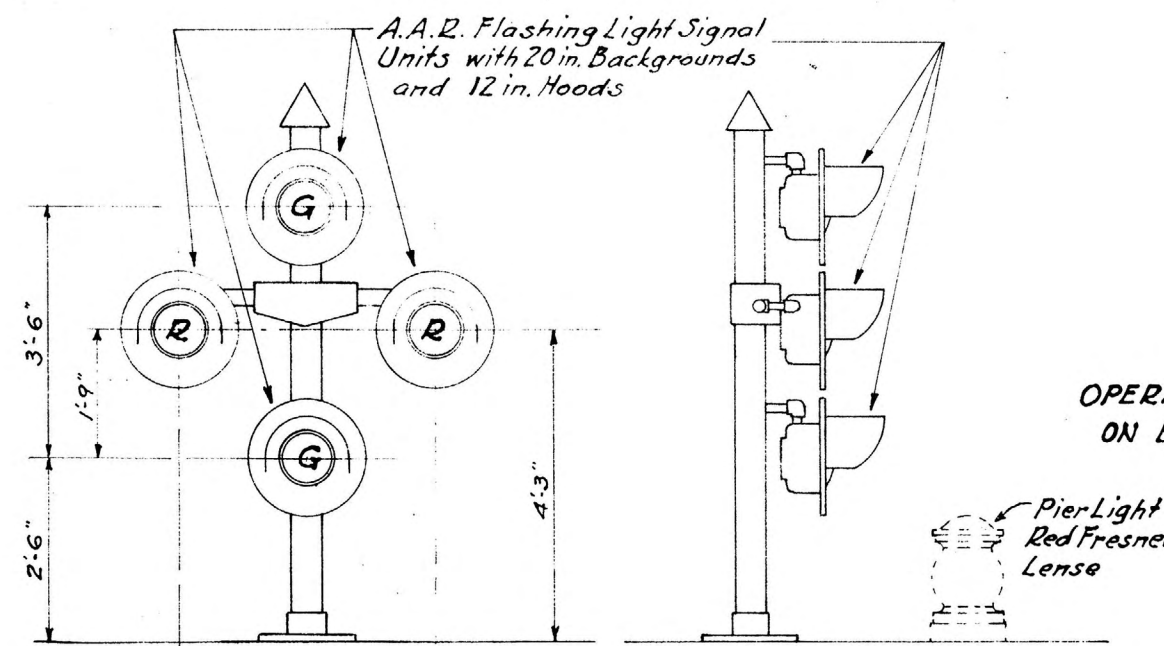


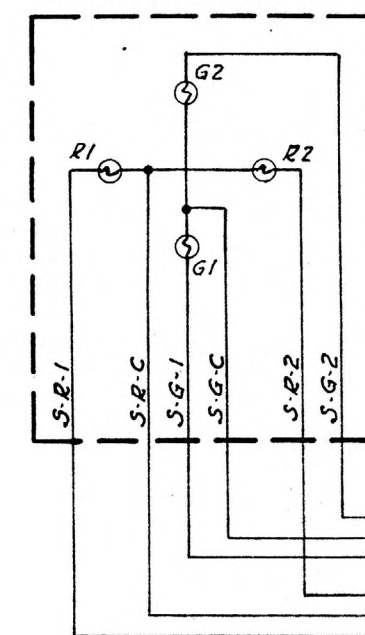
Diagram Light Circuits



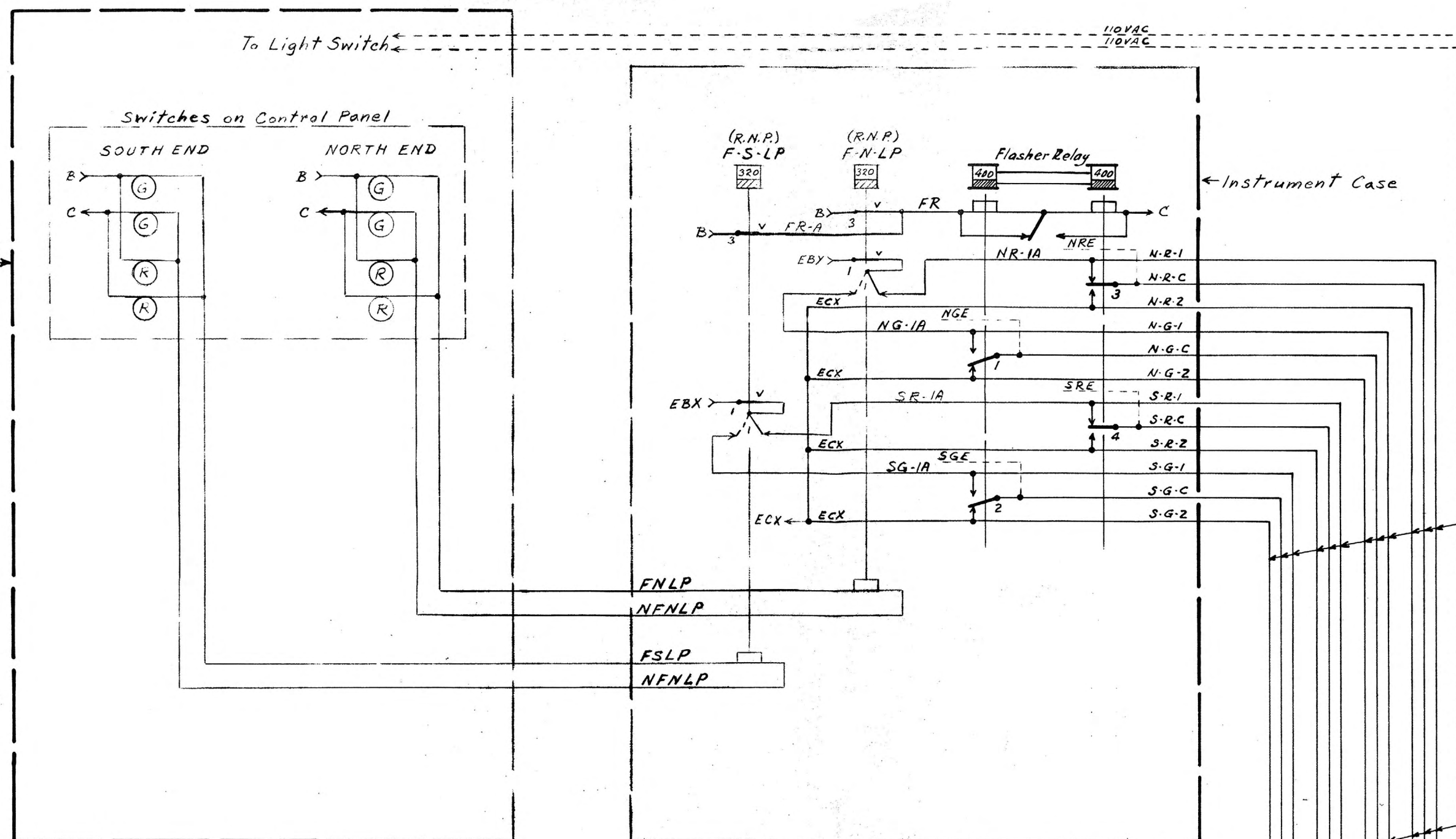


FRONT VIEW SIDE VIEW
FLASHING LIGHT RIVER SIGNAL ASSEMBLY

Not to scale
Lights to have an arc of illumination of 30 degrees and a
range of visibility of at least one half mile in bright sunlight.



To South
Pier Light



110VAC
110VAC

• **Population growth** - culture of *Escherichia coli* in a nutrient broth

← Instrument Case

FNLP

NENLI

FSLP

NFNL	
------	--

$$\frac{110 \text{ VAC}}{110 \text{ VAC}}$$

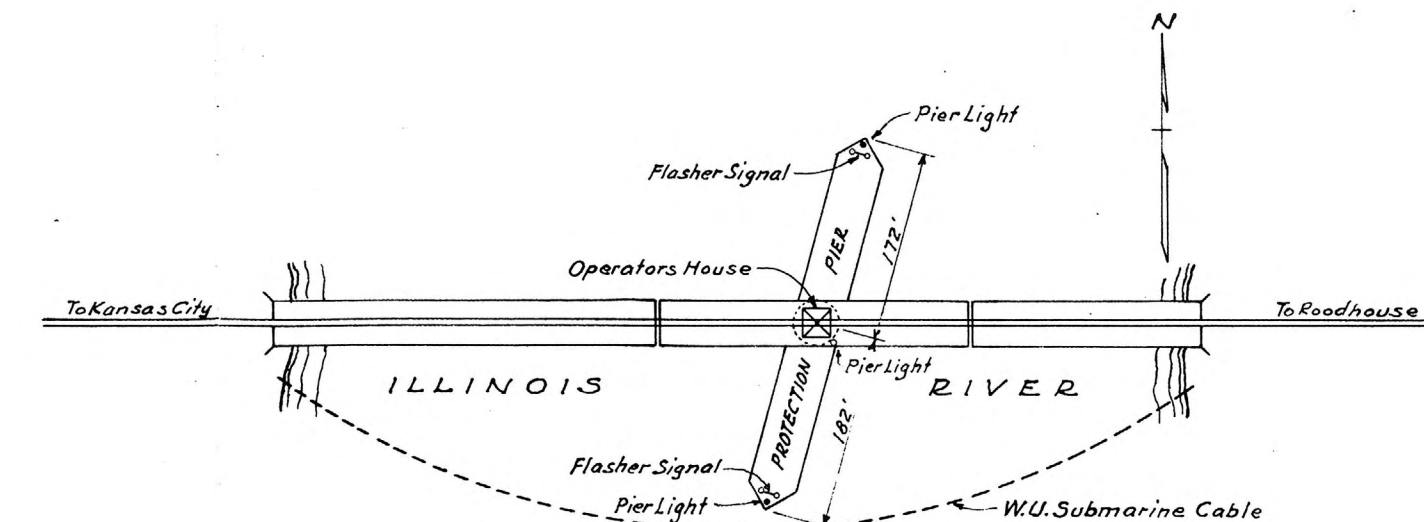
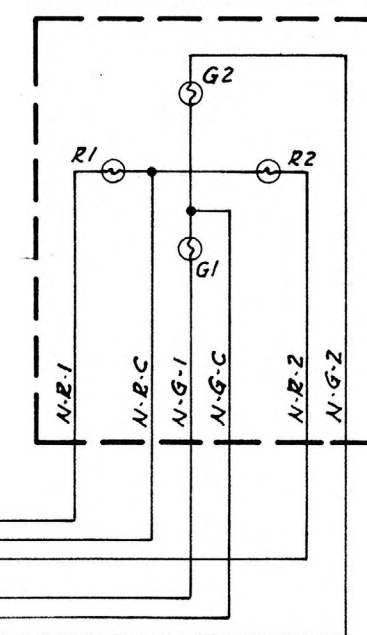
11-11-78

— Wires form flexible bend between bottom of Bridge and Protection Pier

To Center
Pier Light

~~110VAC.~~
~~110VAC.~~

To North
Pier Light



ILLINOI

RIVER

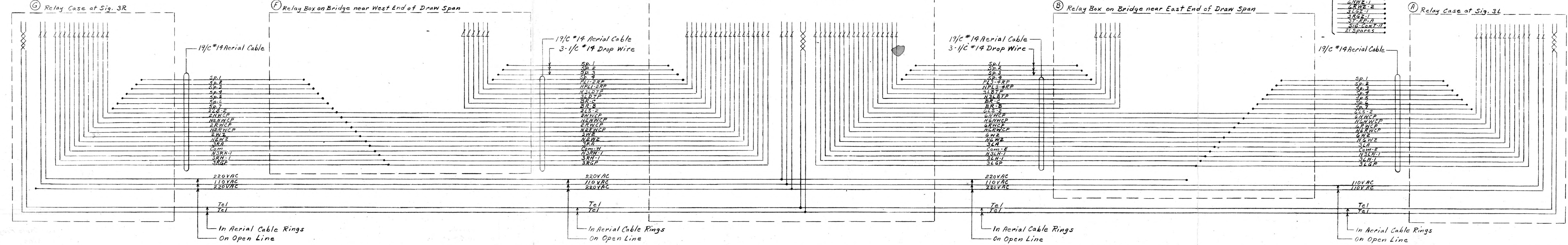
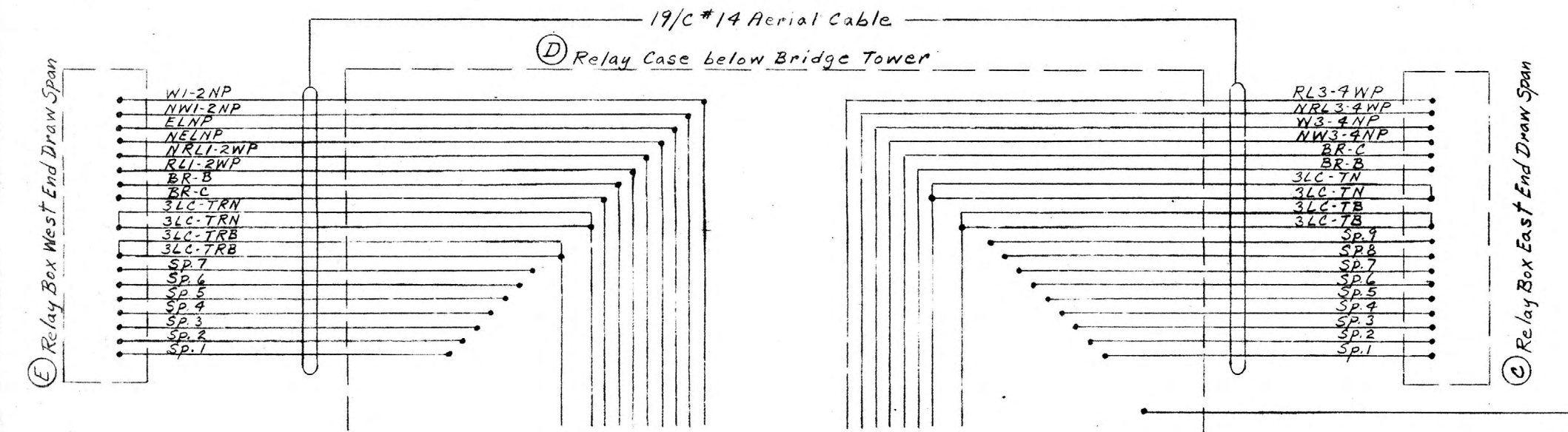
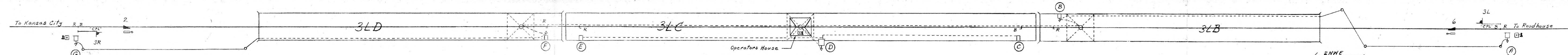
Flasher Signal

Pier Light →

LOCATION PLAN

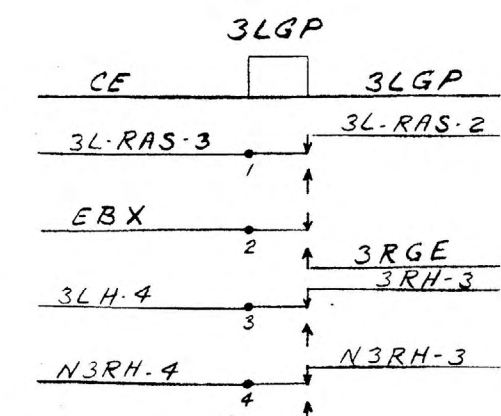
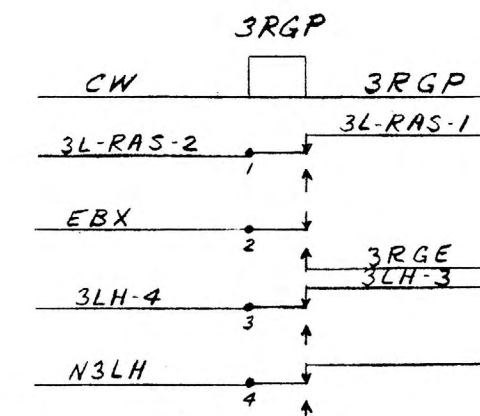
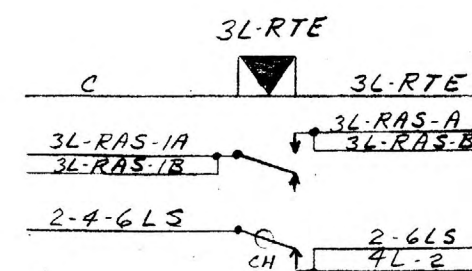
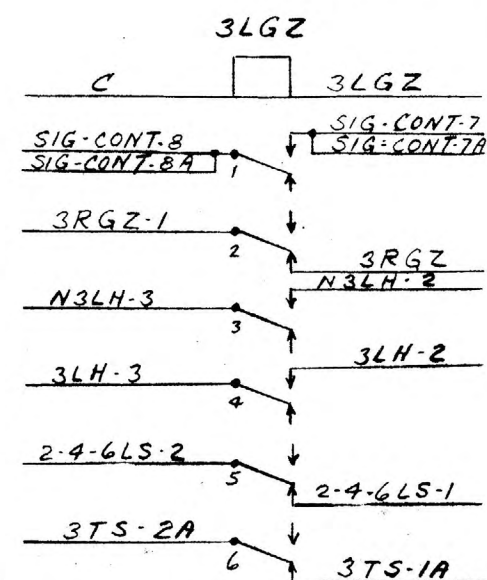
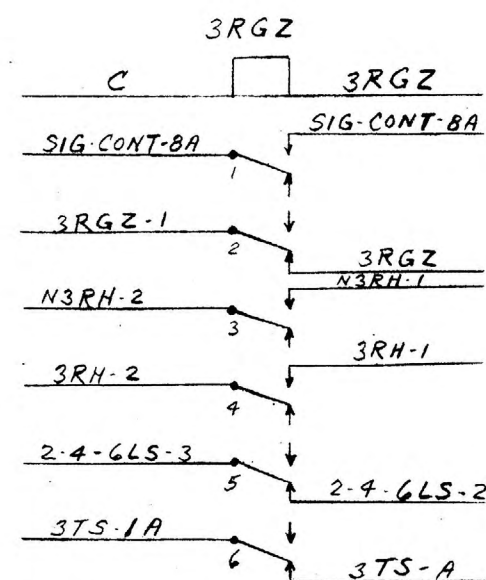
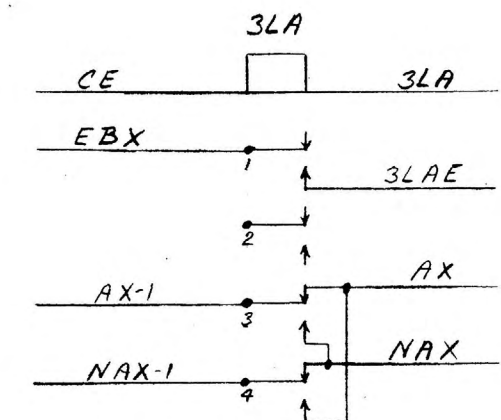
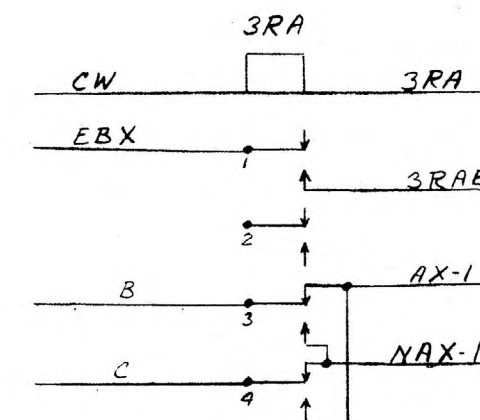
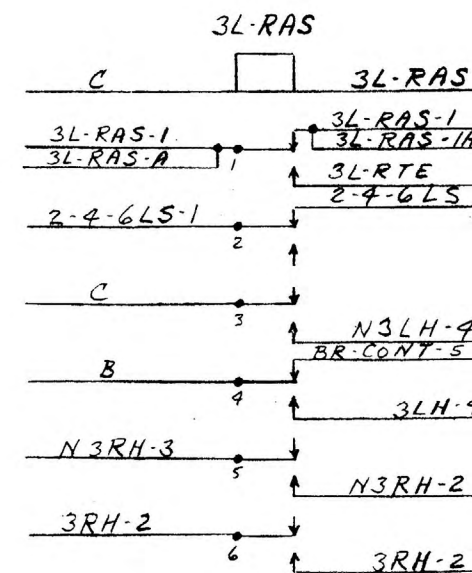
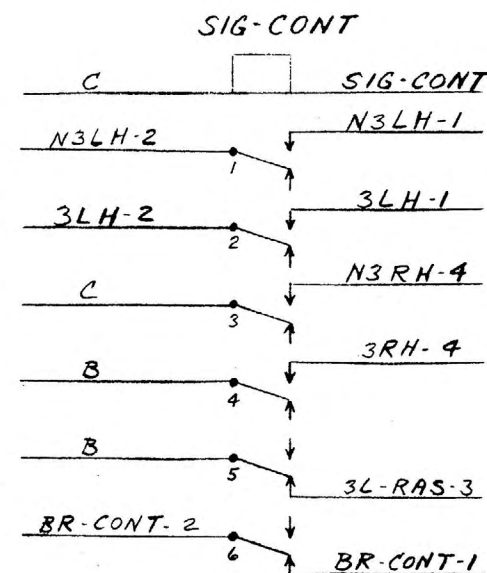
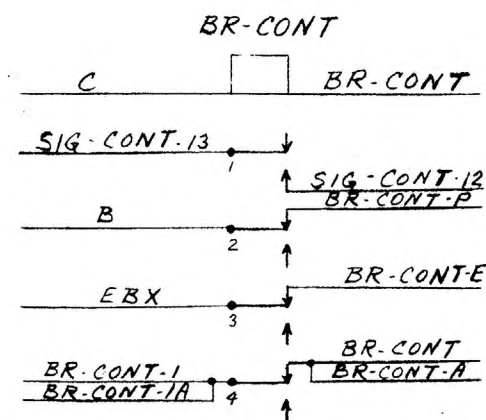
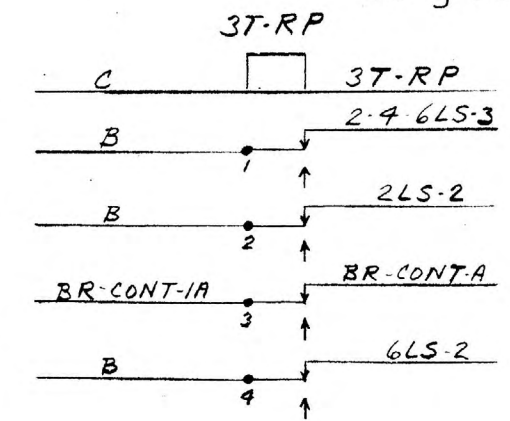
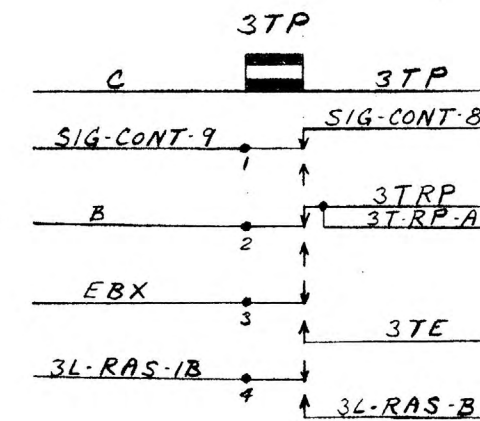
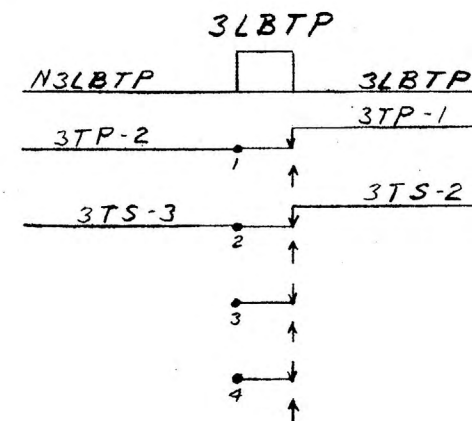
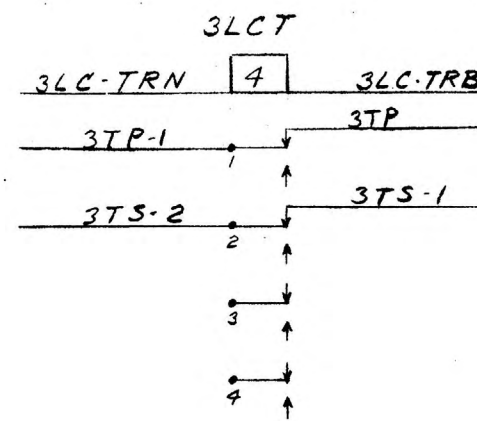
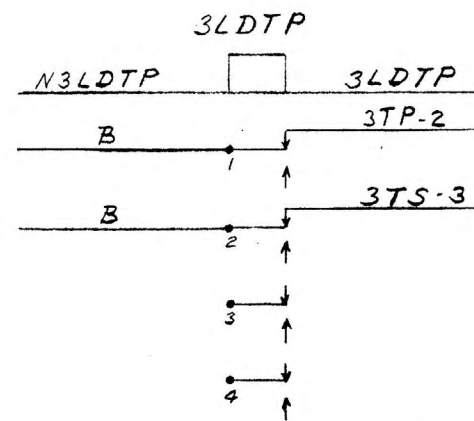
Not to scale

Flashing Light River Signals

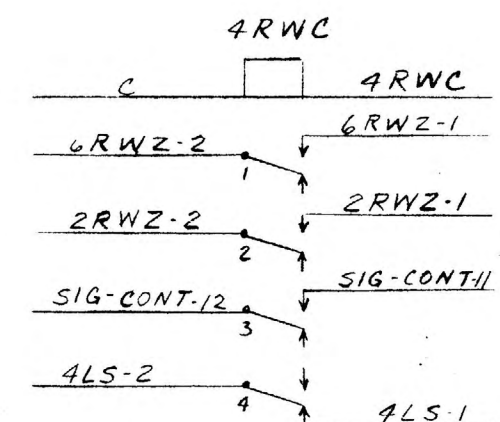
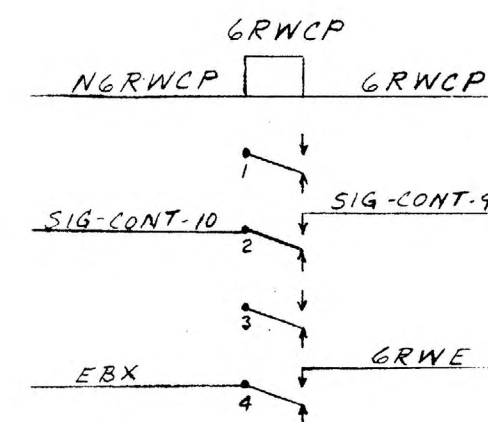
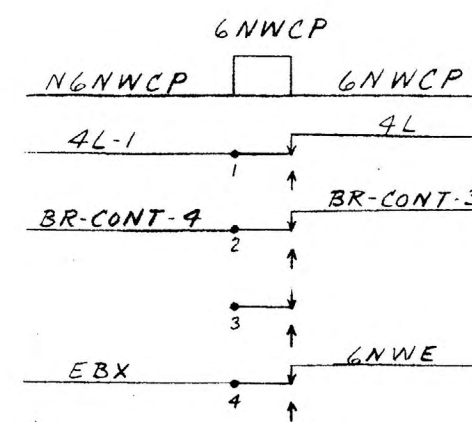
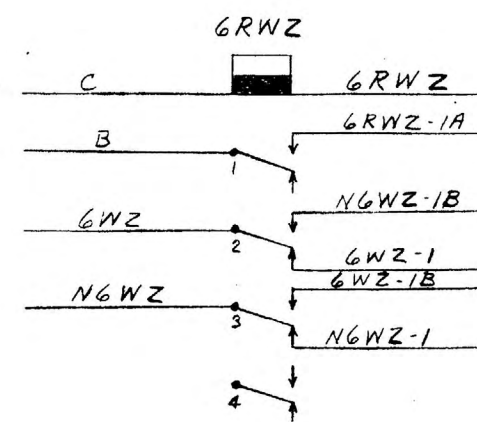
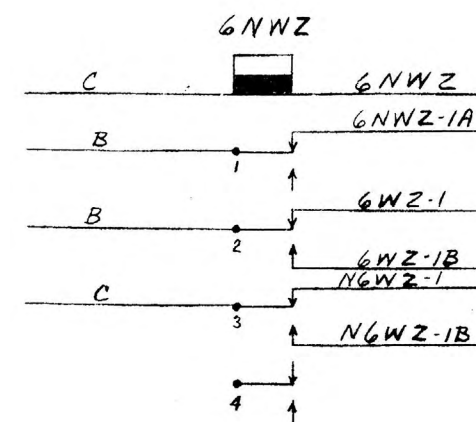
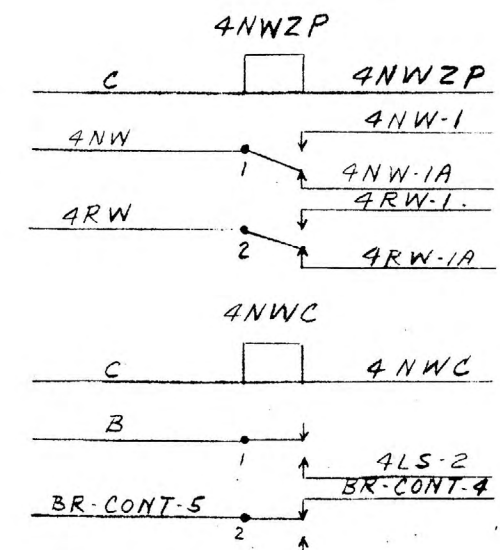
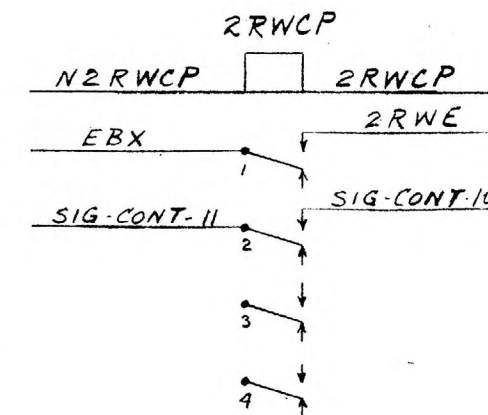
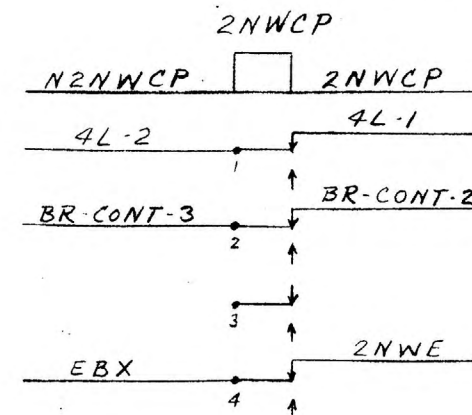
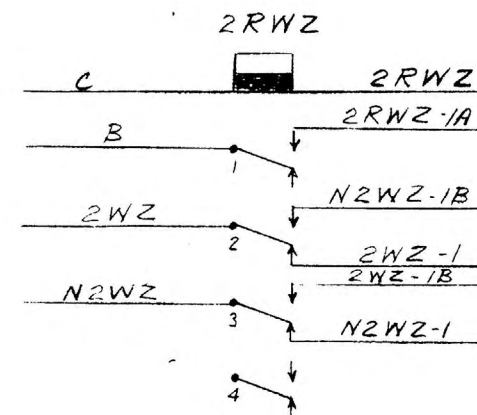
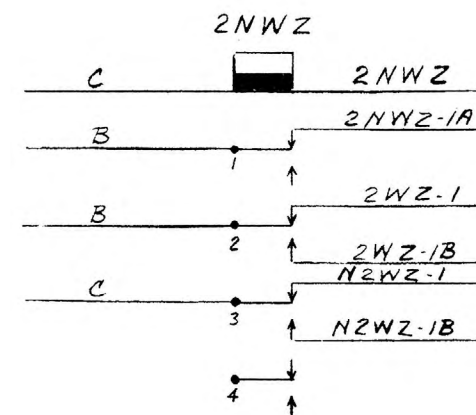
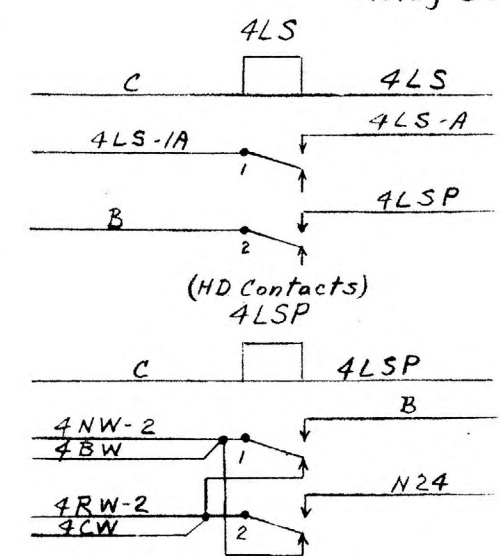
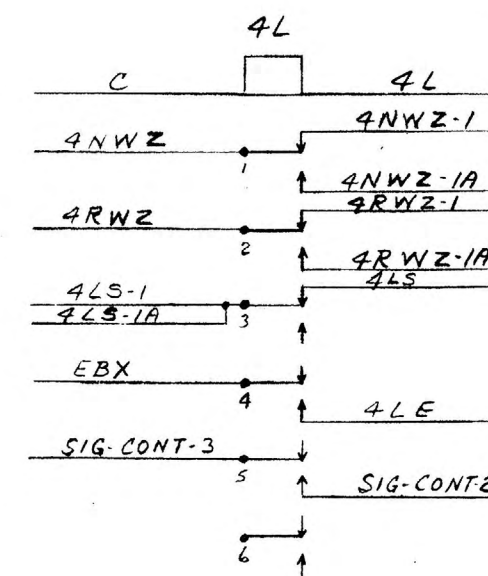
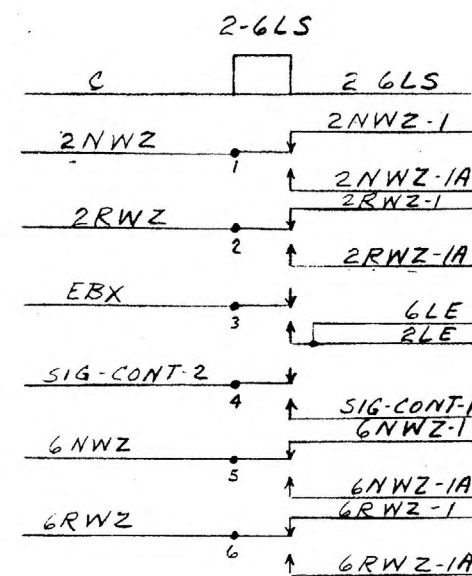
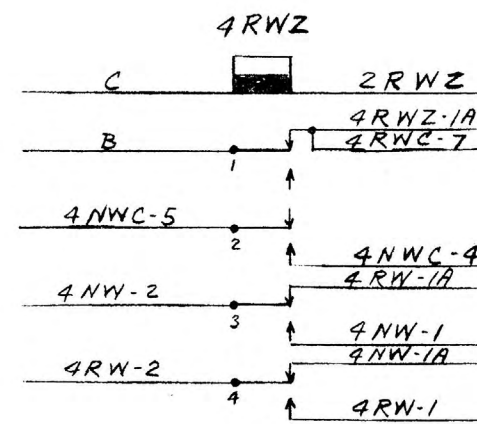
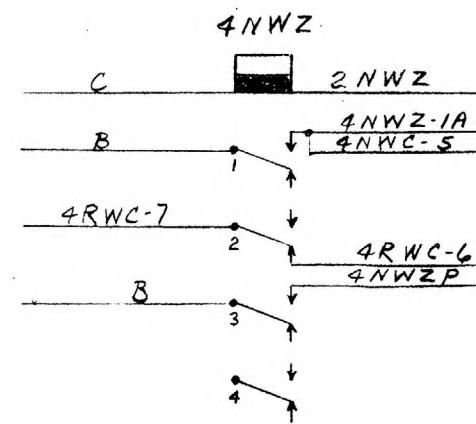


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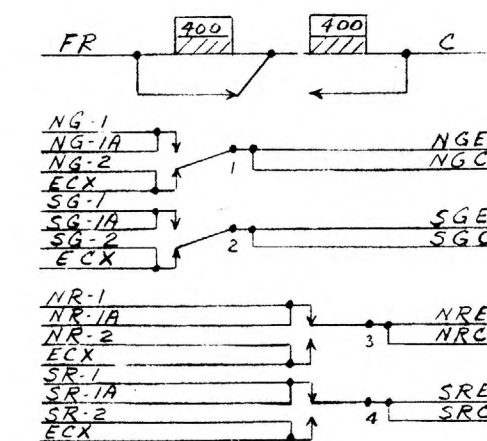
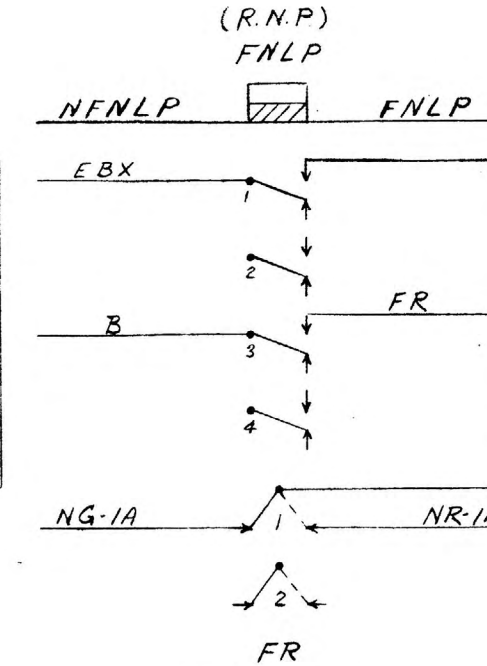
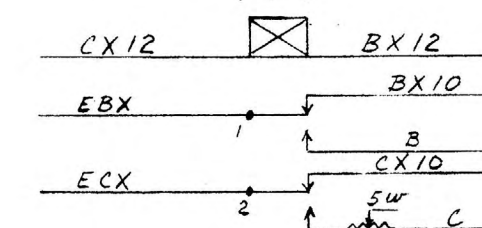
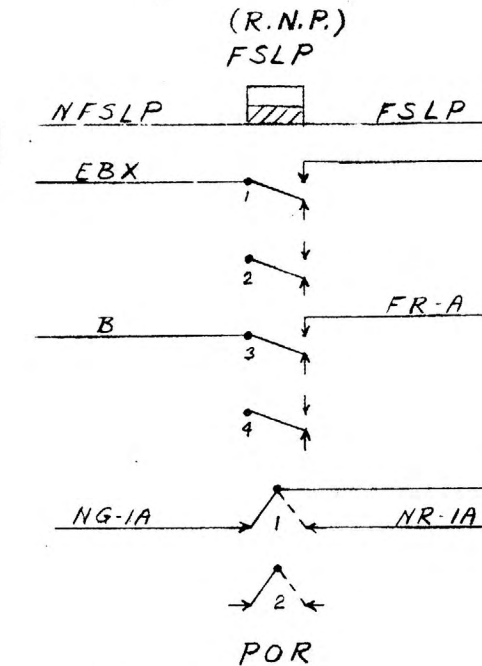
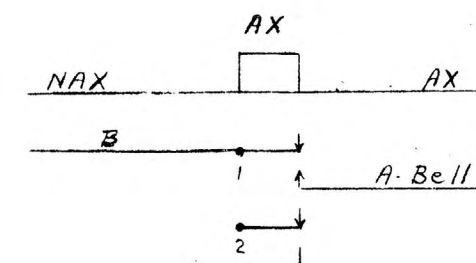
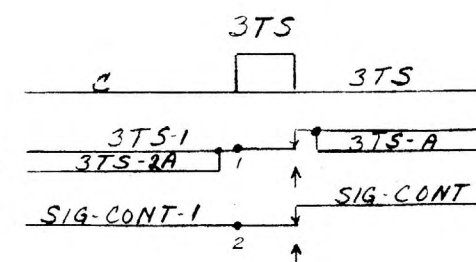
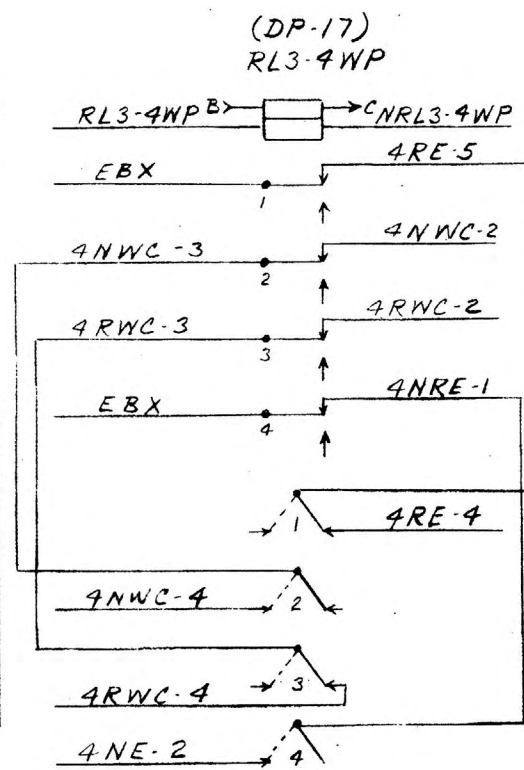
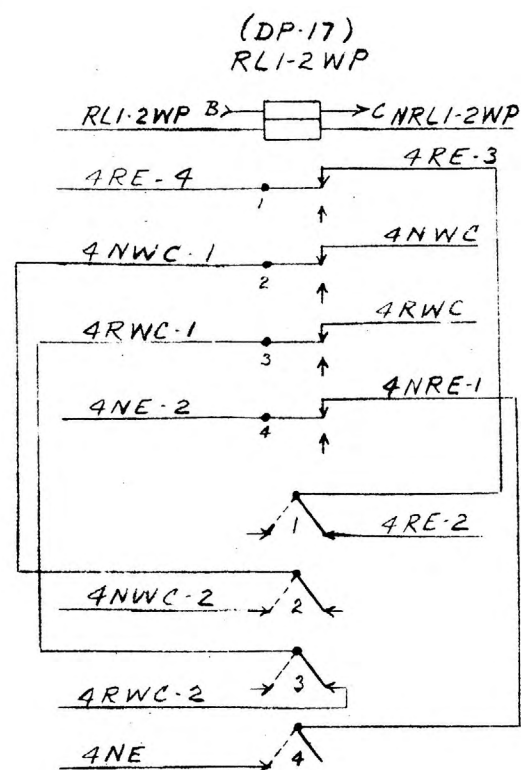
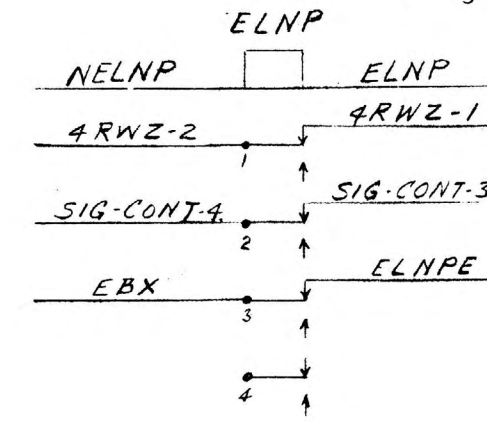
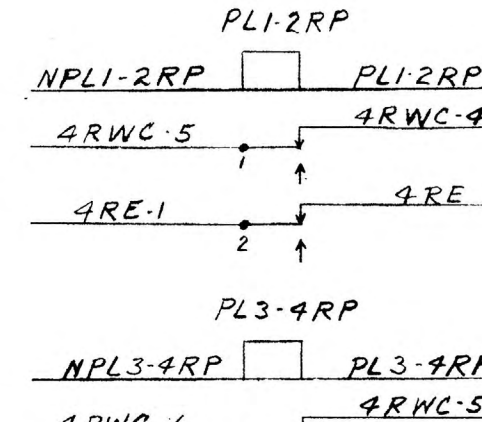
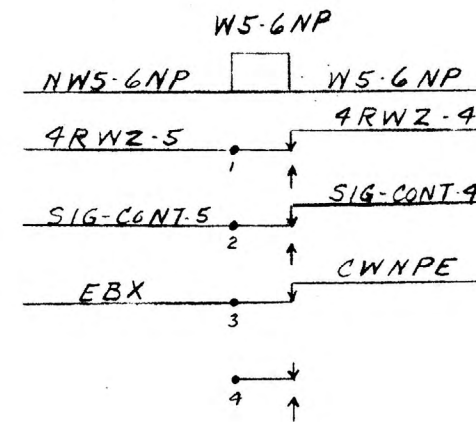
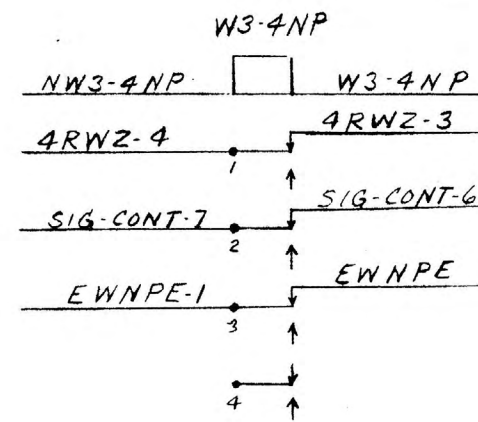
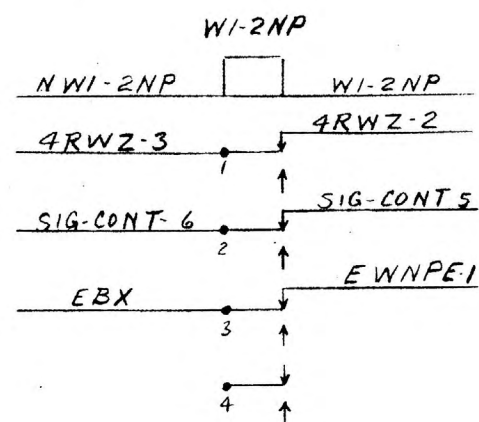
Relay Details



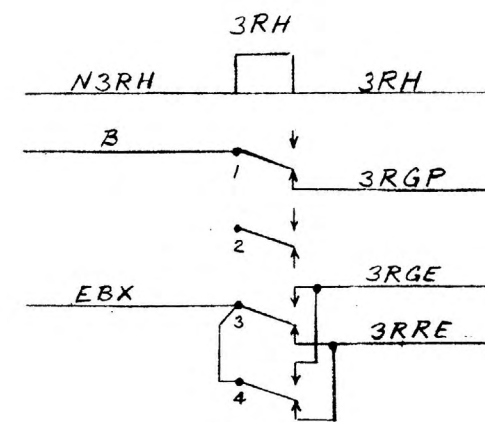
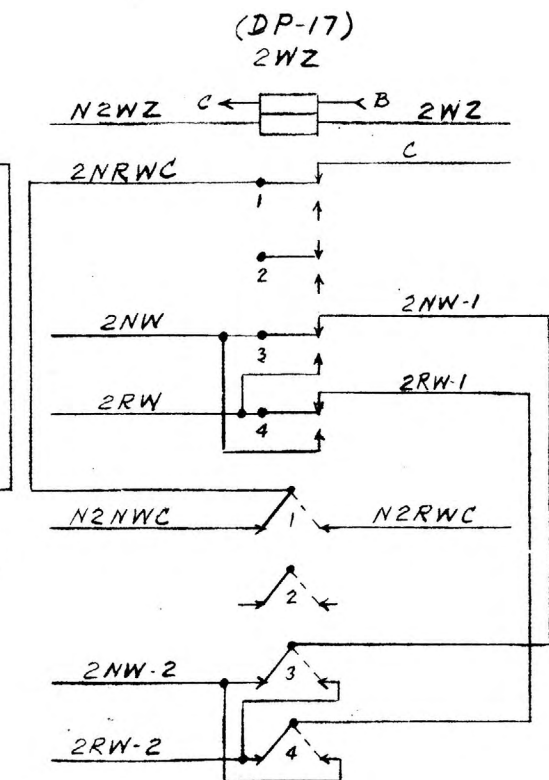
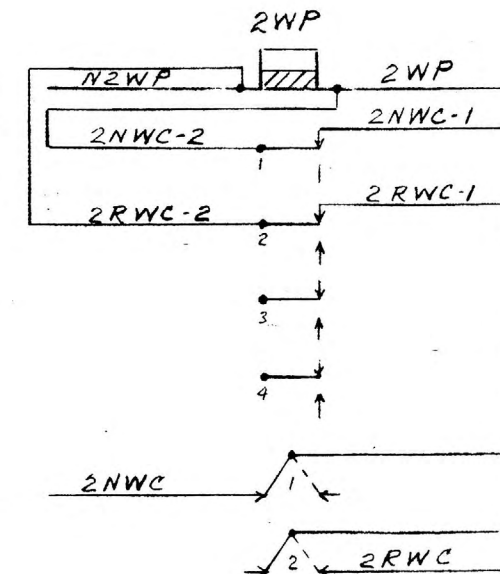
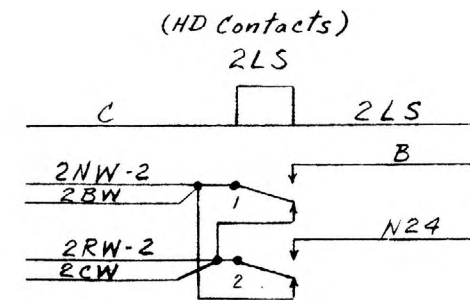
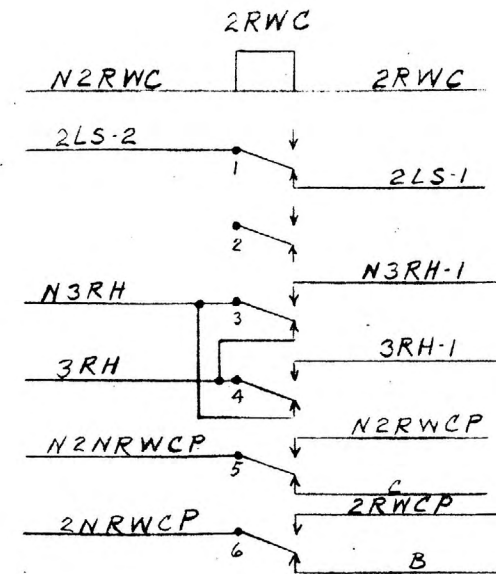
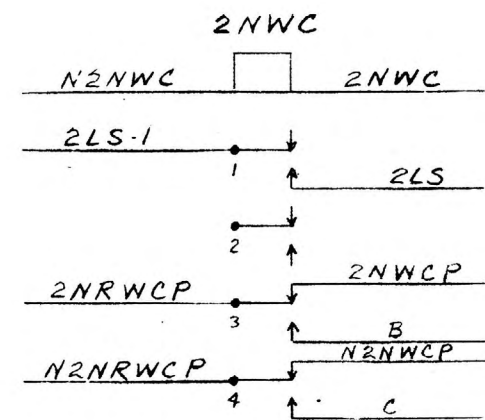
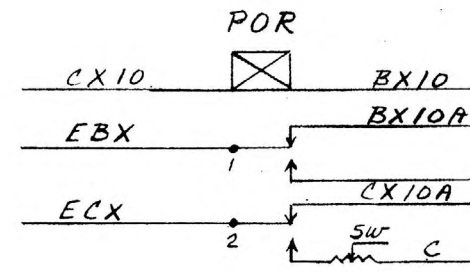
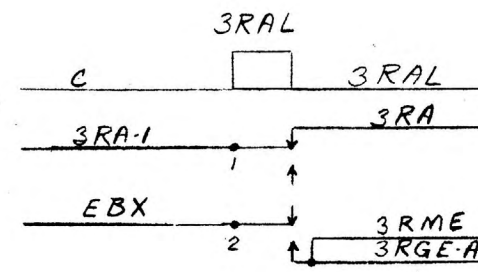
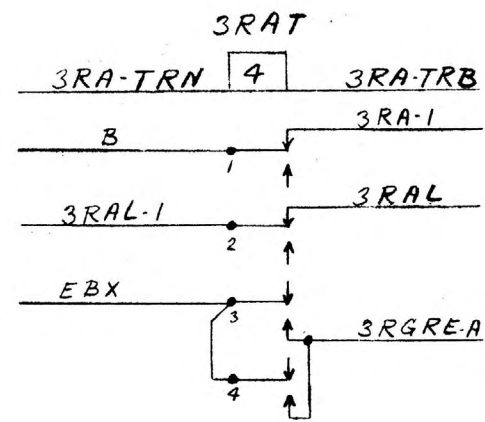
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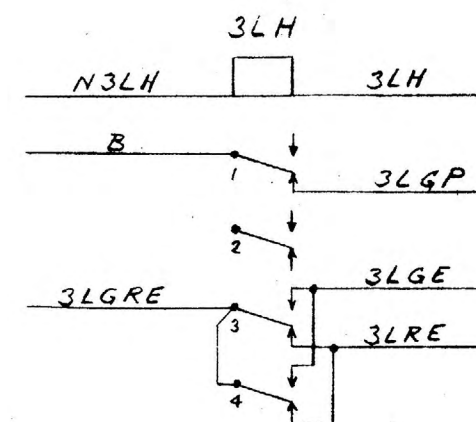
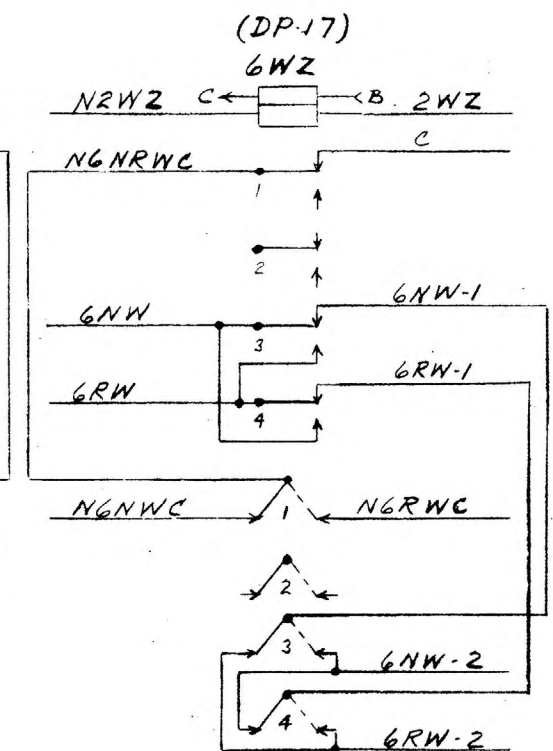
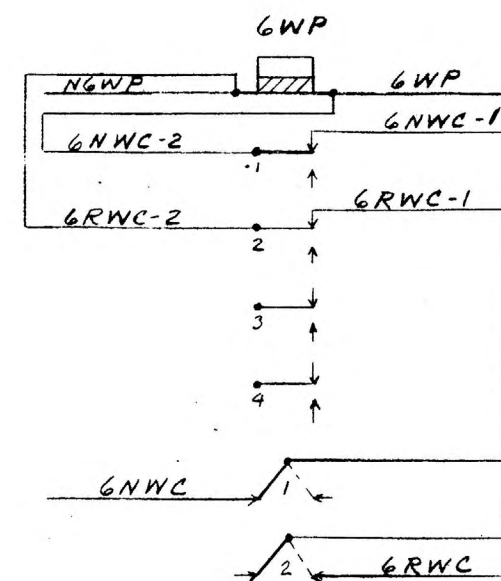
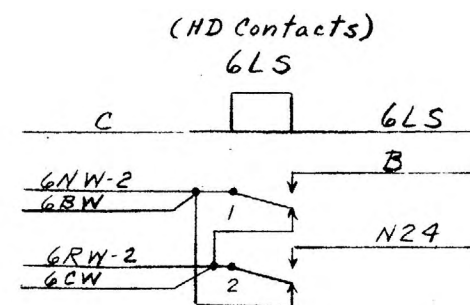
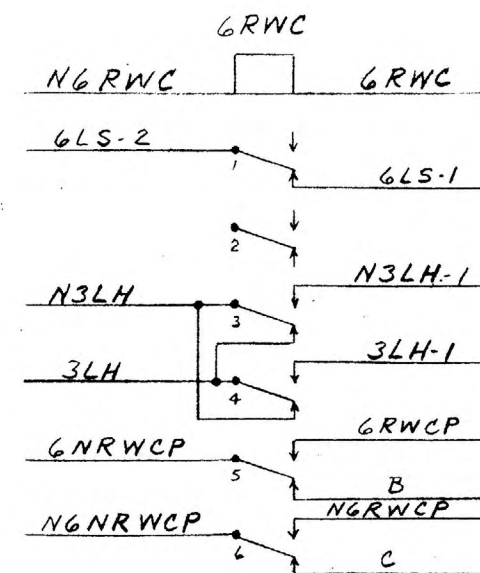
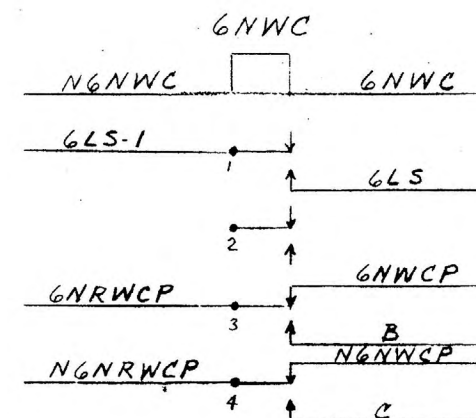
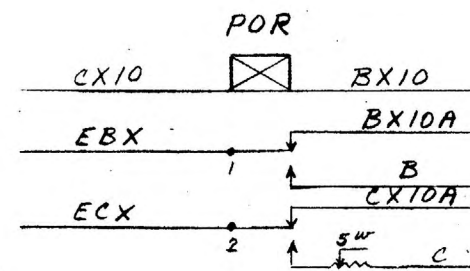
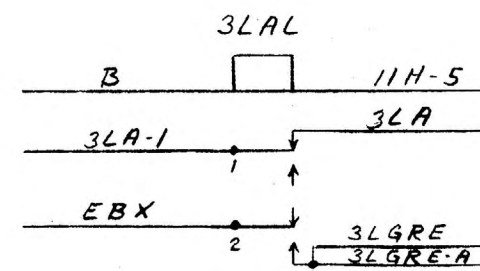
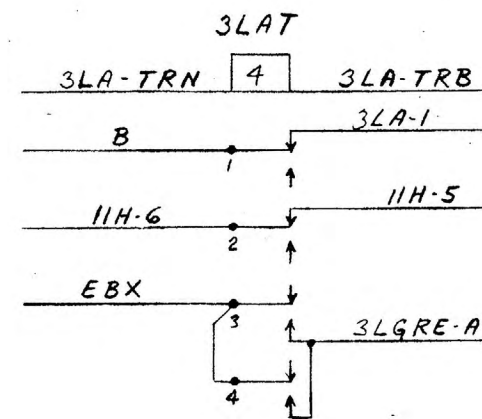
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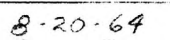


Relay Details at Sig. 3R

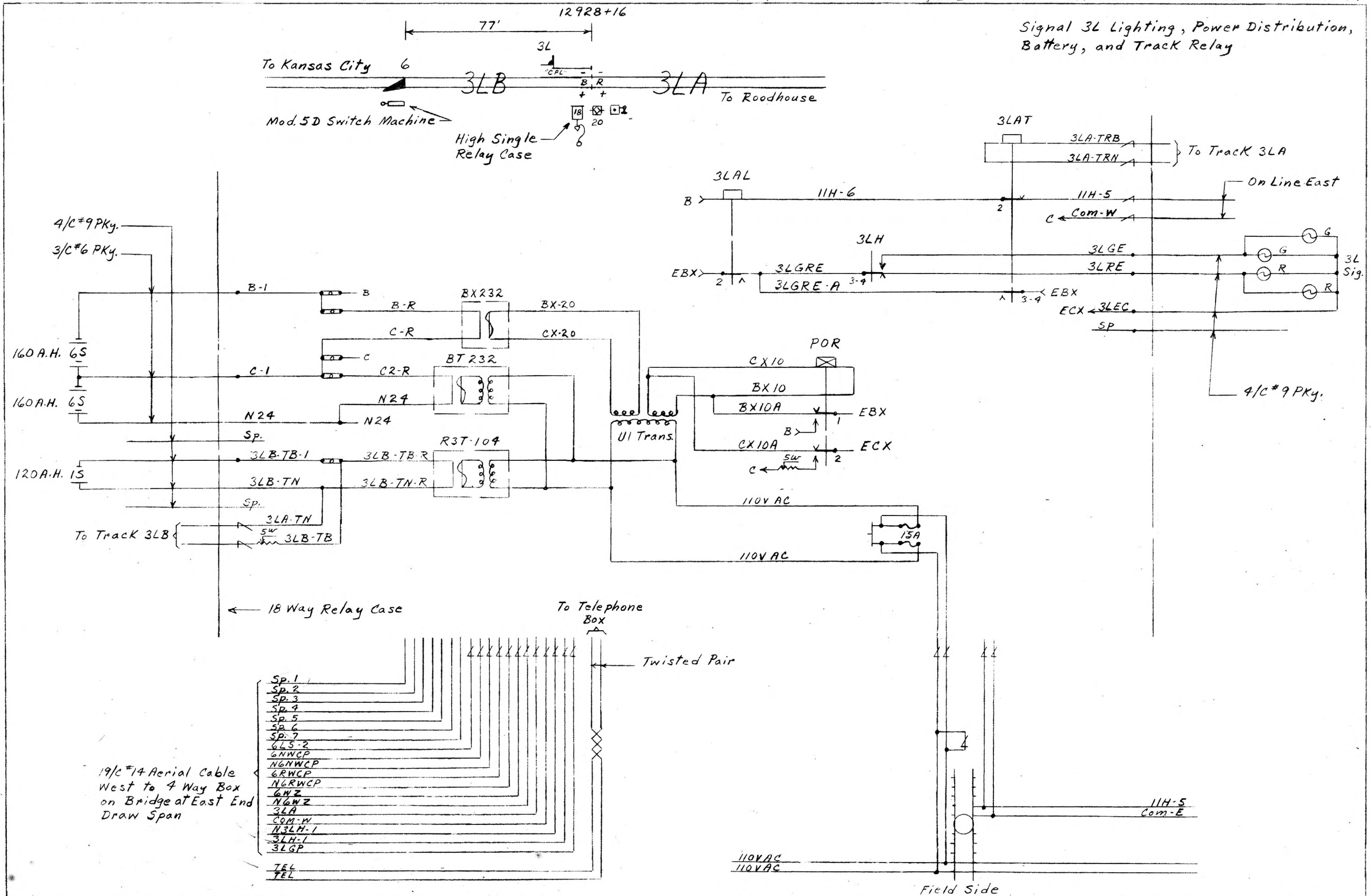


Relay Details at Sig. 3L





Signal 3L Lighting, Power Distribution,
Battery, and Track Relay



PEARL, ILL. SD22CPD.

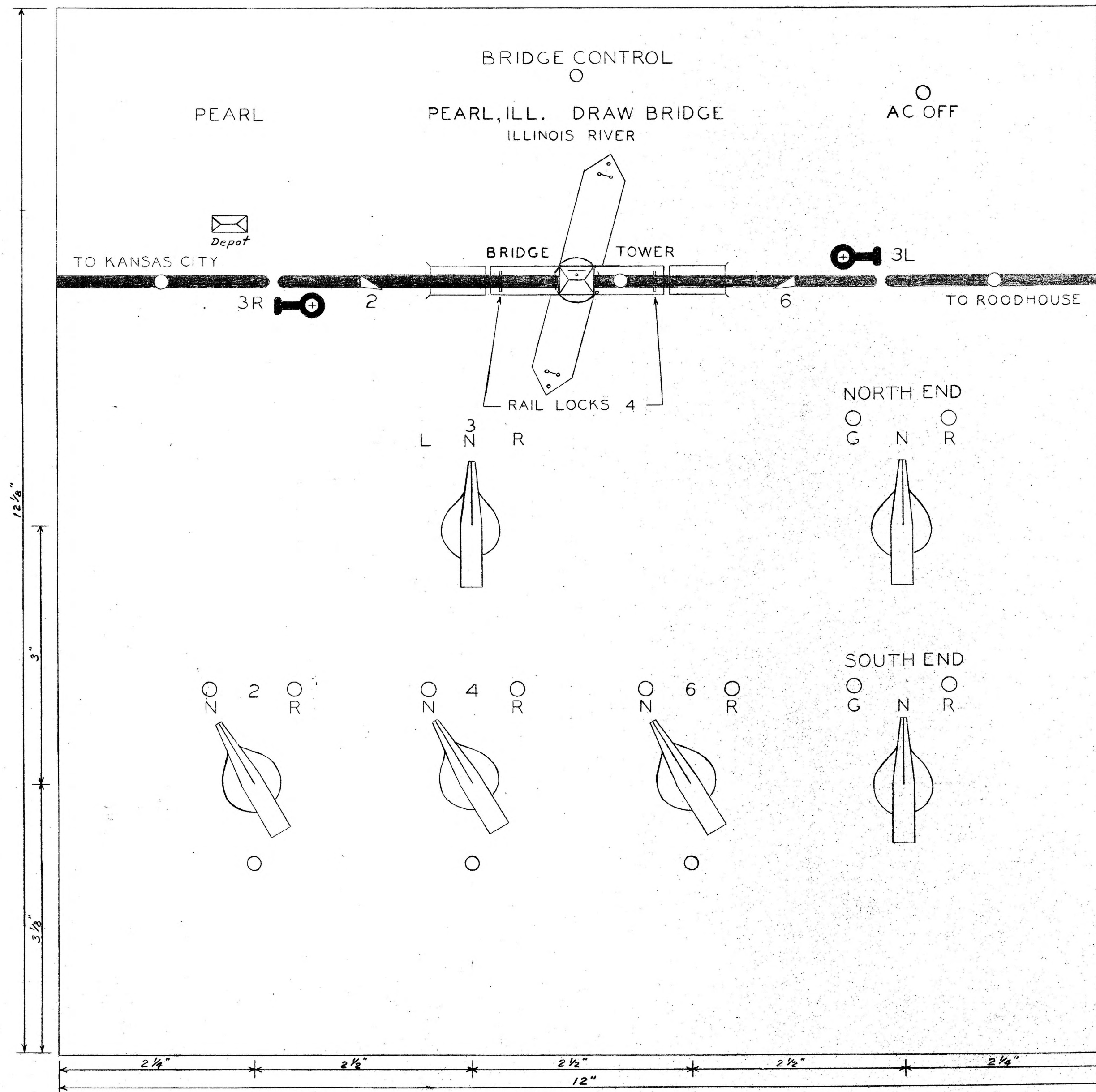
CONTROL MACHINE PANEL

Signal Dept.

G.M. & O.R.R.

Bloomington, Ill.

Aug. 20, 1964



Wiring Diagram for Model 5D Switch Machine
for Rail Locks 4 & Derail 2 and 6.

NOTE 1 - Connections are shown for single switch with R.H. point normally closed. To change normal position of function transpose NWR and RWR also WP and NWP.

NOTE 2: Figures in circles denote numbers on wires.

NOTE 3: This contact opens motor circuit when hand crank is inserted.

NOTE 4: Right hand Contactor "C1" operates mechanism to the right
Left hand Contactor "C2" operates to the left.

NOTE 5: "S" denotes Stick winding and "O" denotes operating winding of Overload Relay.

NOTE 6: These contacts open when Selector Lever is reversed.

NOTE 9: These contacts close when Selector Lever is reversed.

MOD 5D SW. MACHINE WITHOUT MASTER RELAY
FOR LOW VOLTAGE D.C. OPERATION AND CONTROL

