

INSTALLATION OF AUTOMATIC INTERLOCKING REPLACING

MECHANICAL INTERLOCKING AT CROSSING C.G.W.,

M.S.T.L. AND C.&N.W. RY'S.

MARSHALLTOWN, IOWA

Office of Signal Engineer

Chicago, Illinois

Date 4-2-59

A.F.E. 86852

Div. IOWA

YELLOW - IN

GREEN - OUT

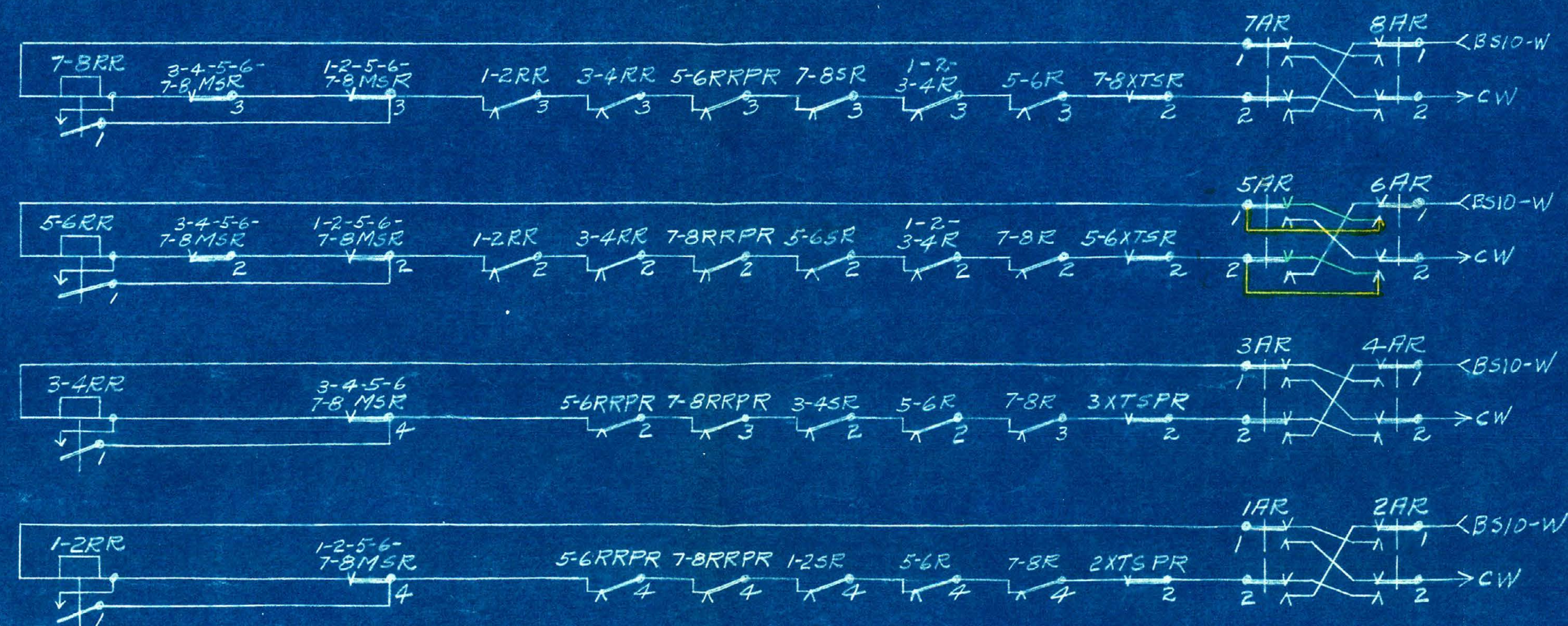
C.&N.W. RY.

S.D. 117

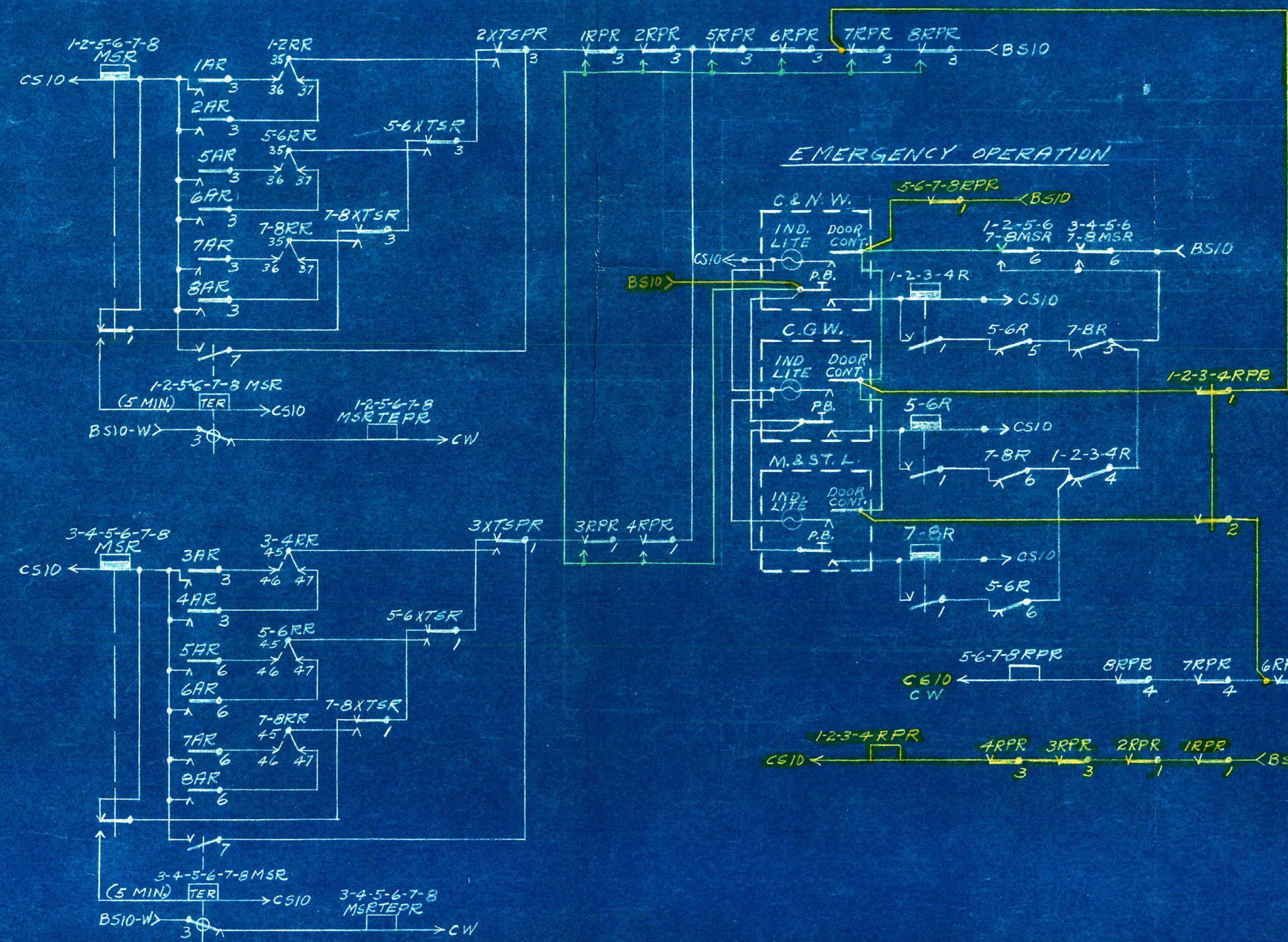
SHEET - 1

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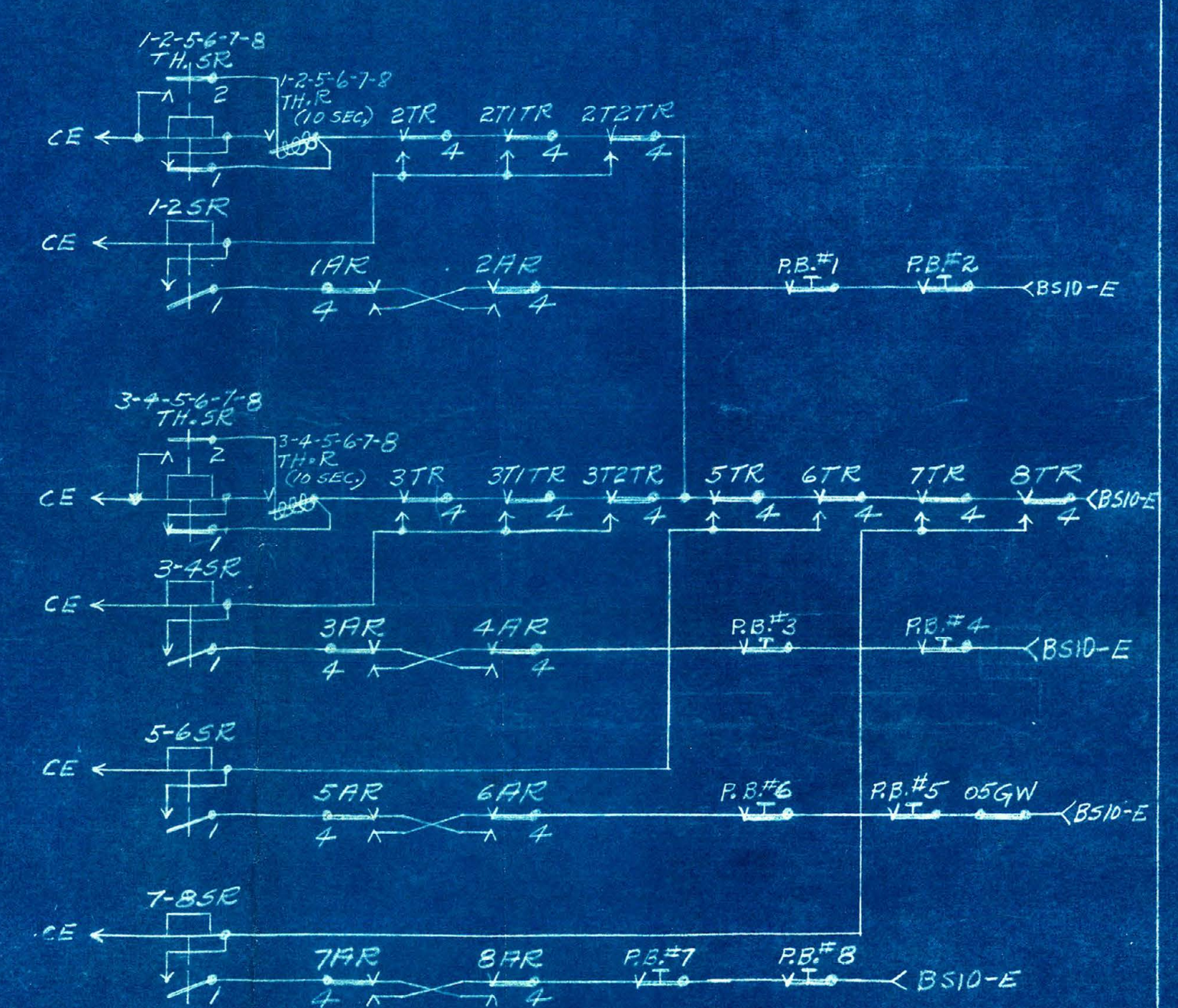
ROUTE SELECTION CIRCUITS



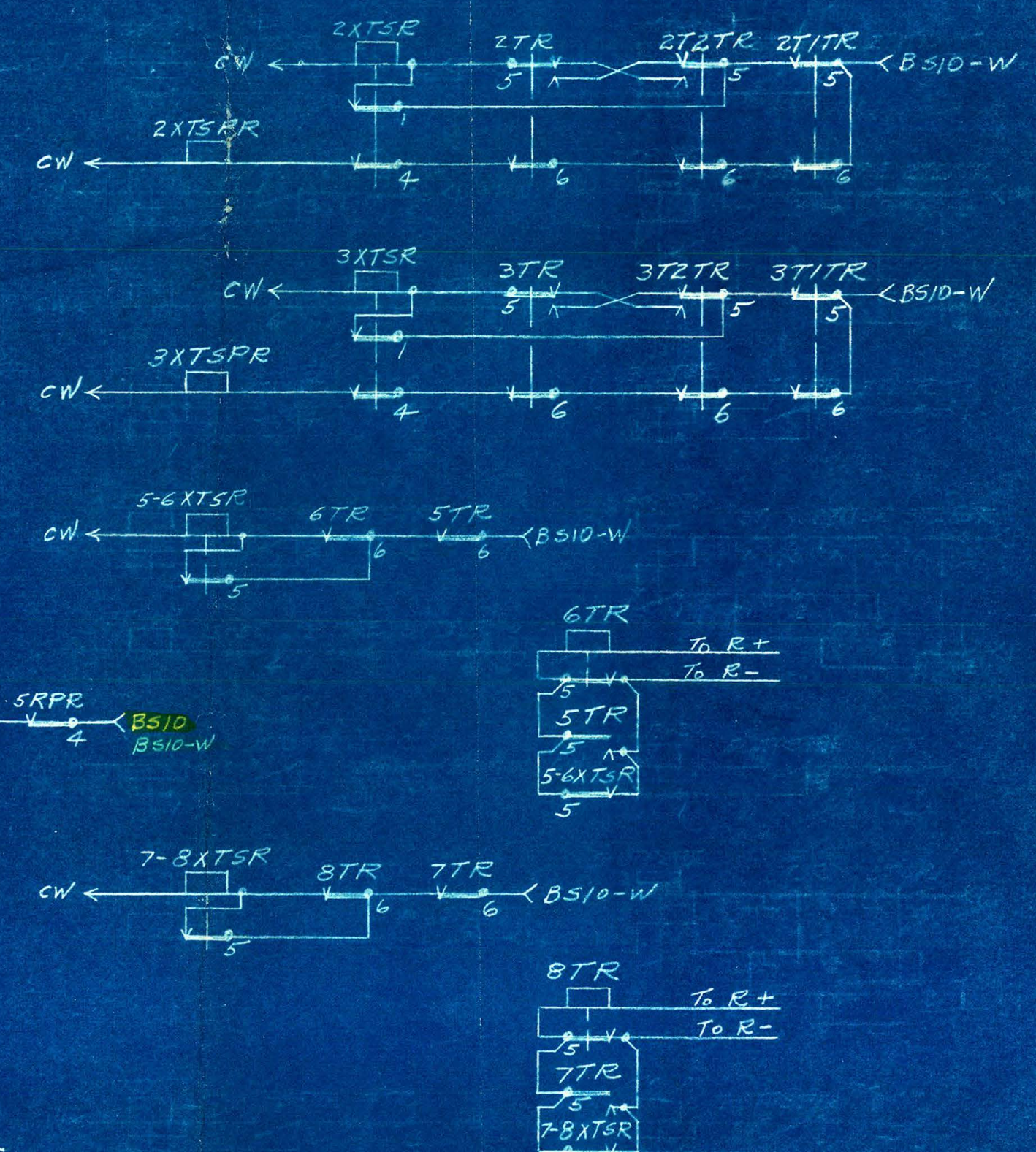
LOCK STICKS AND TIMING CIRCUITS



RECEDING STICKS AND LOSS OF SHUNT CIRCUITS



TRAP STICK CIRCUITS



MADE 7-5-16

REVISIONS

REV. TO DATE-3-9-59

REV. TO DATE 3-31-59

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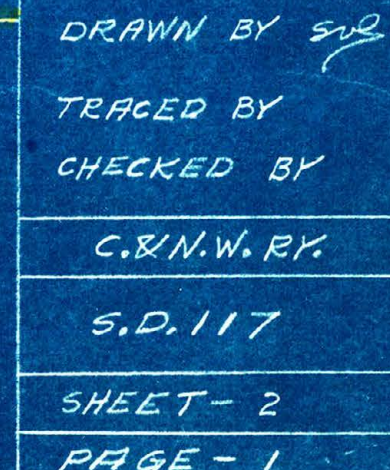
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C. & N.W. RY.

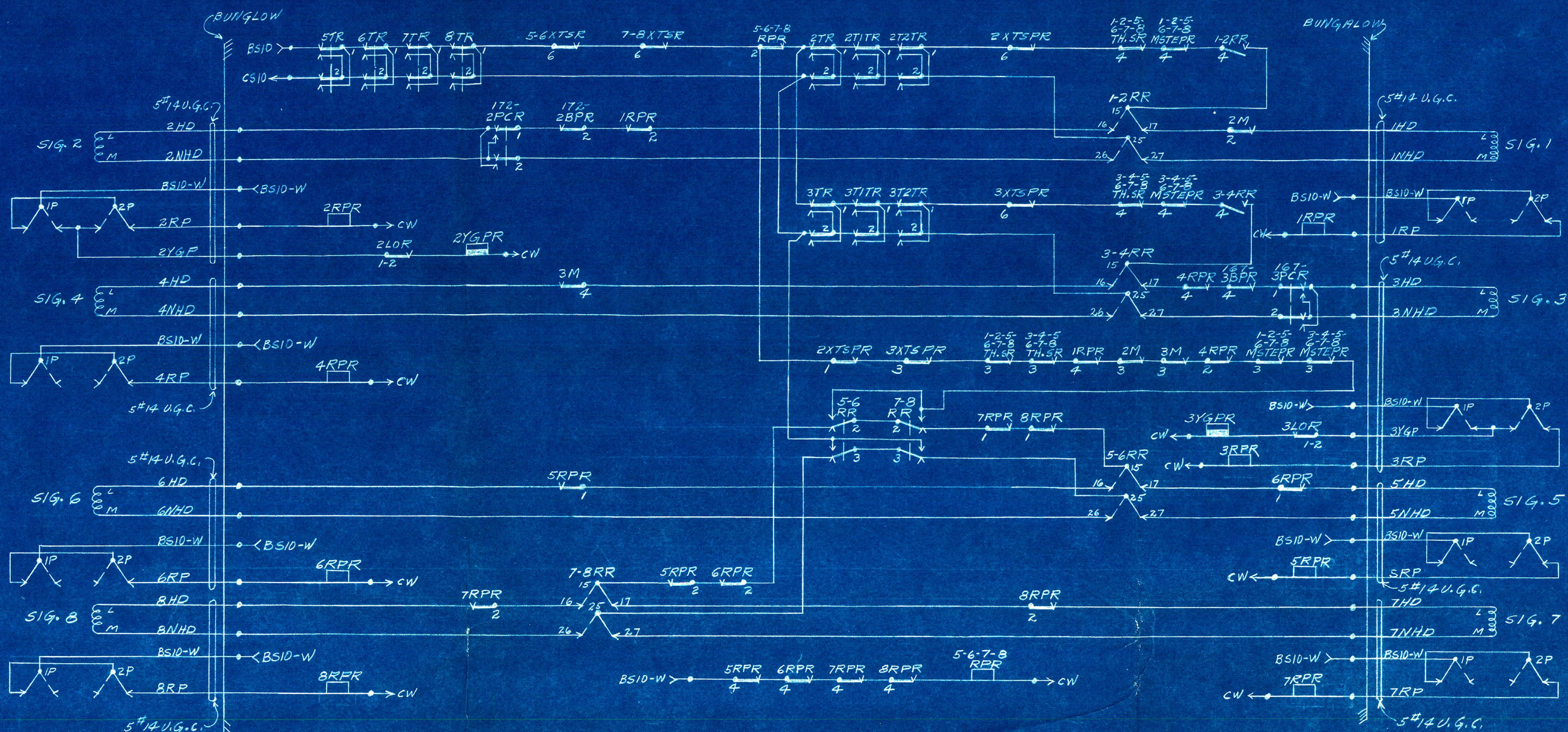
S.D. 117

SHEET - 1

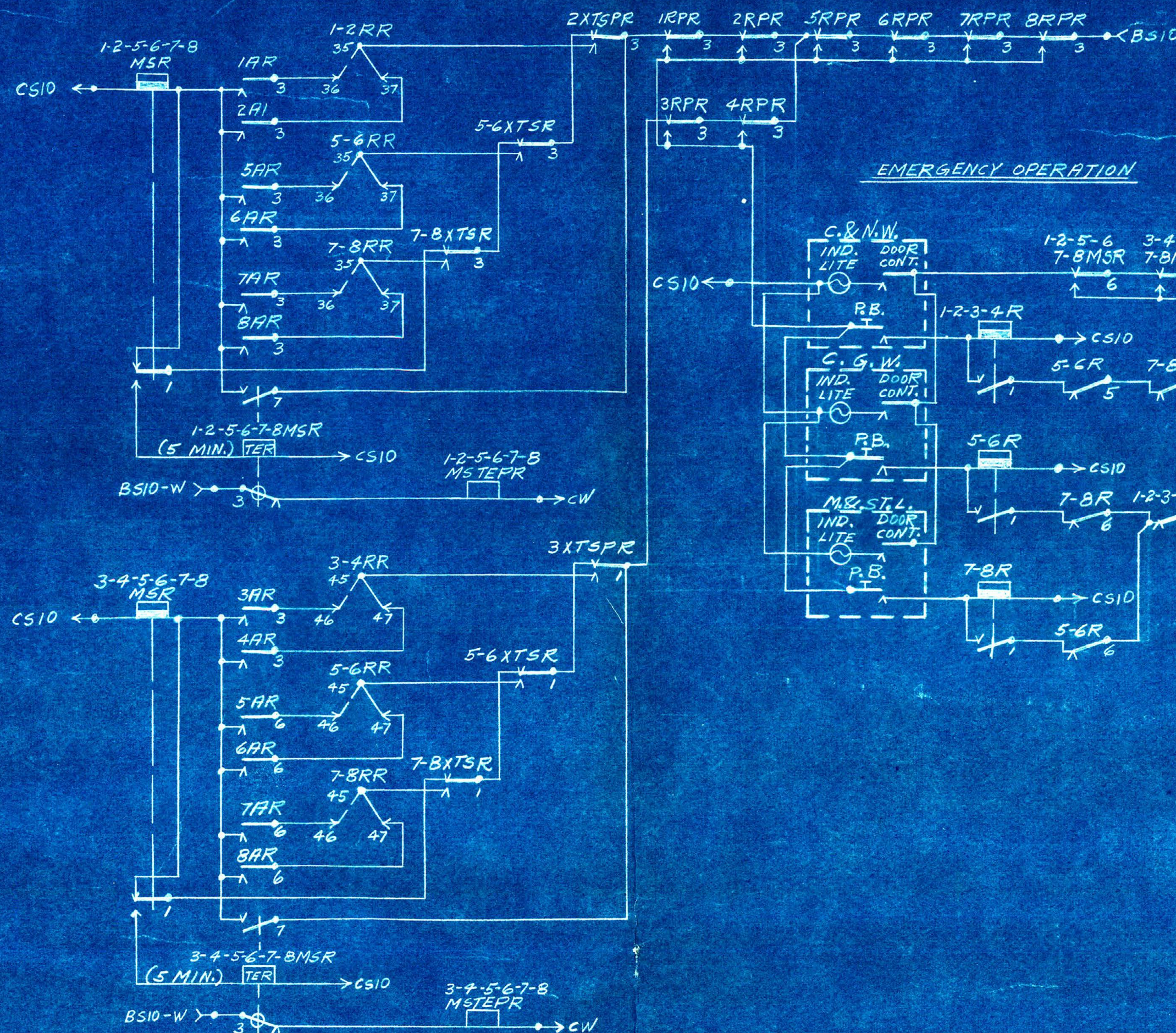
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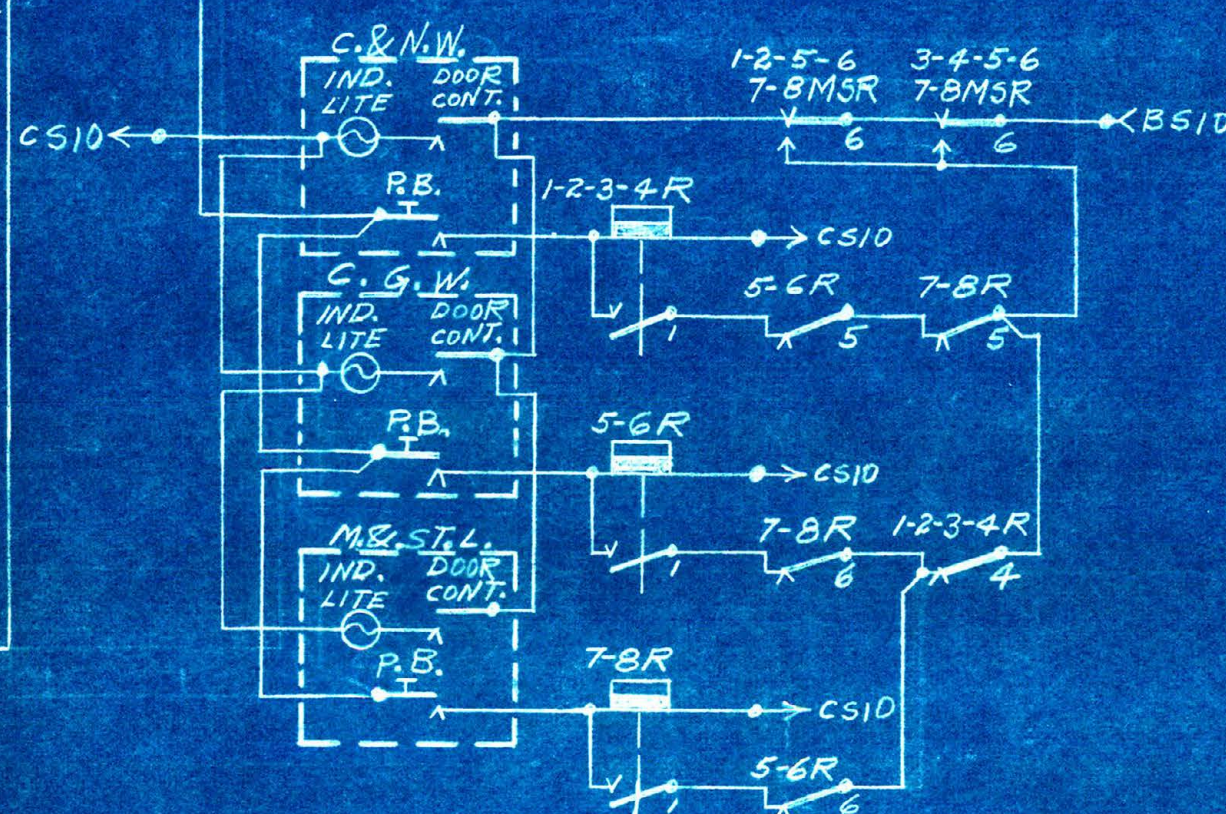
SIGNAL CONTROL CIRCUITS

MADE 7-5-16
REVISIONS

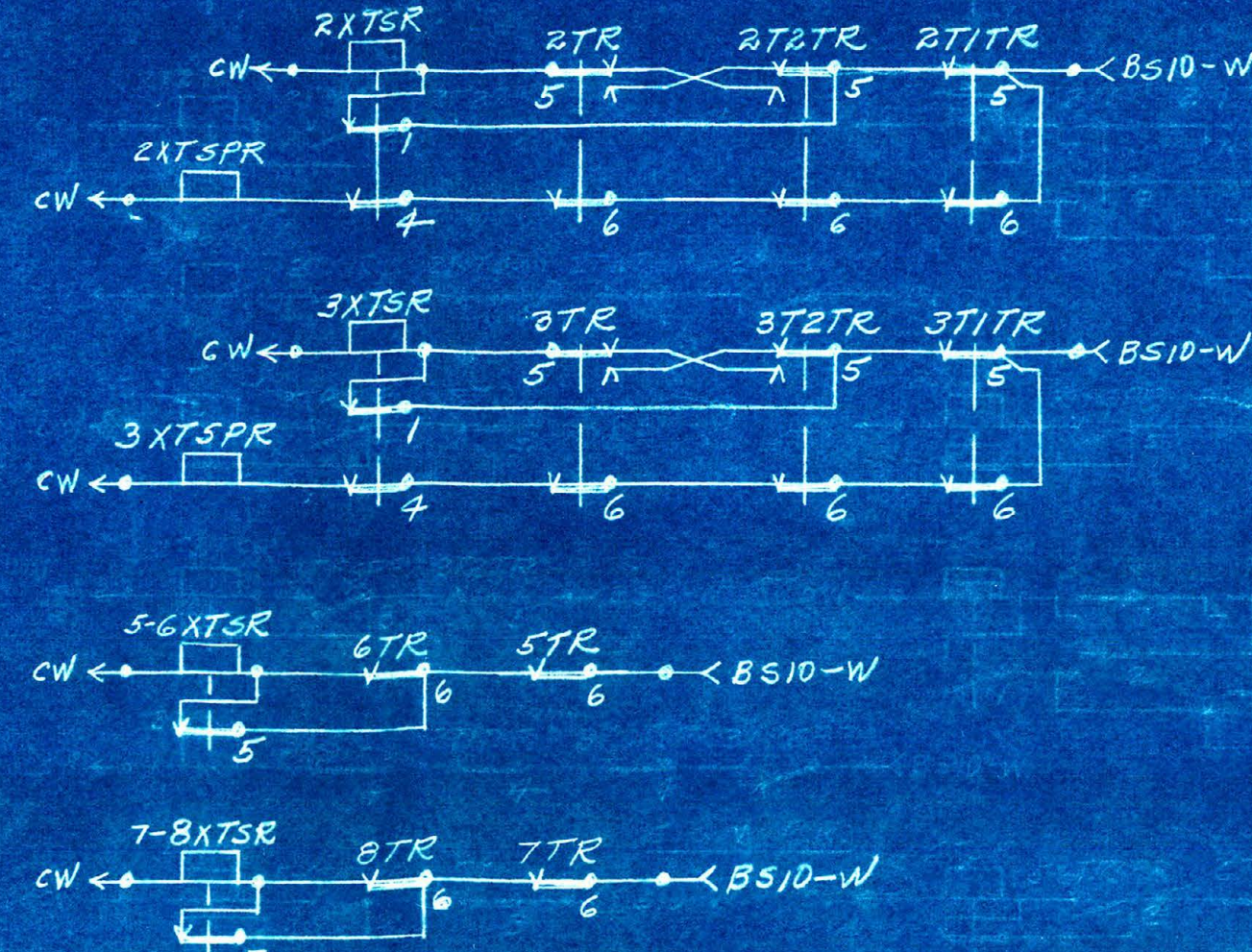
LOCK STICK'S AND TIMING CIRCUITS



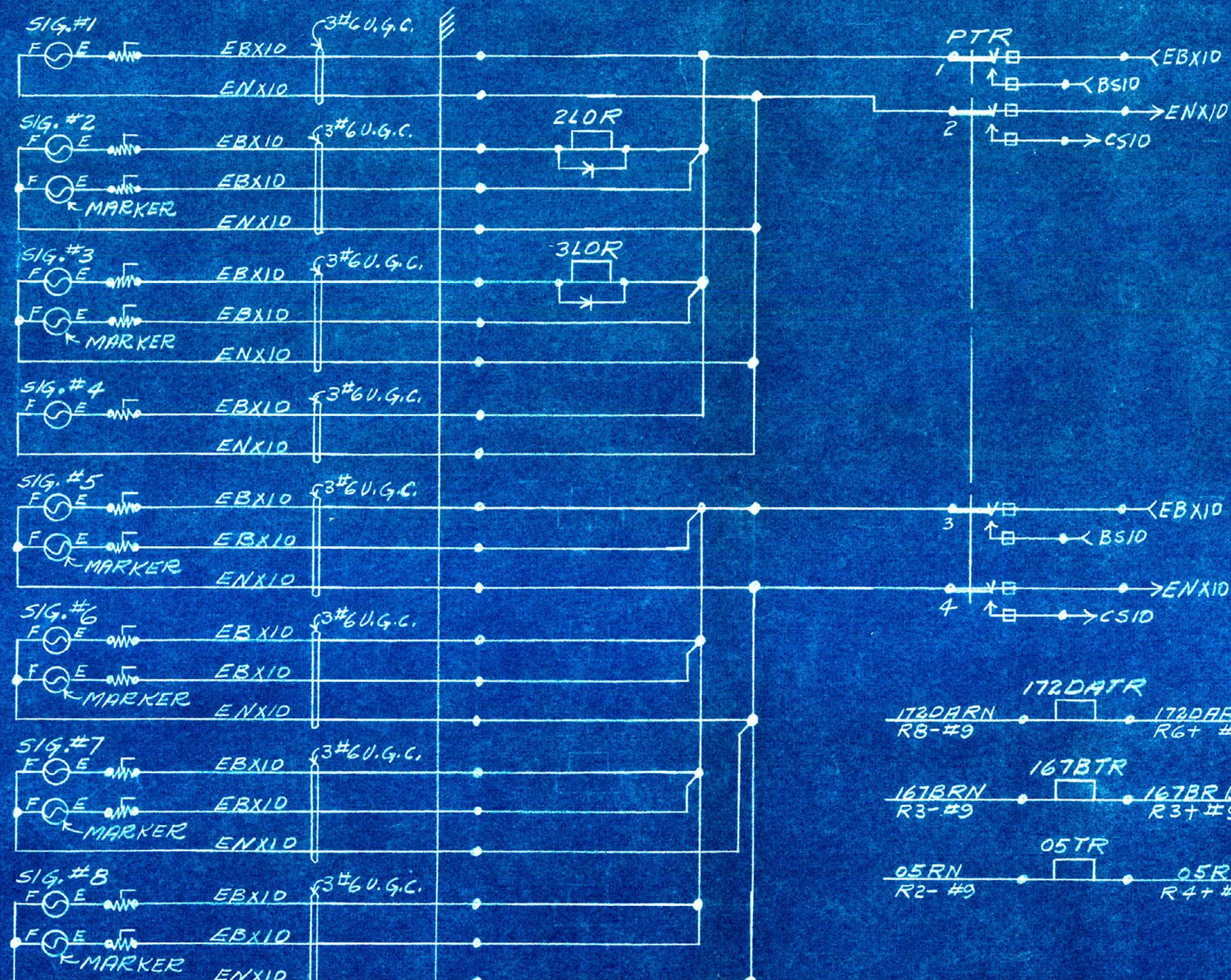
EMERGENCY OPERATION



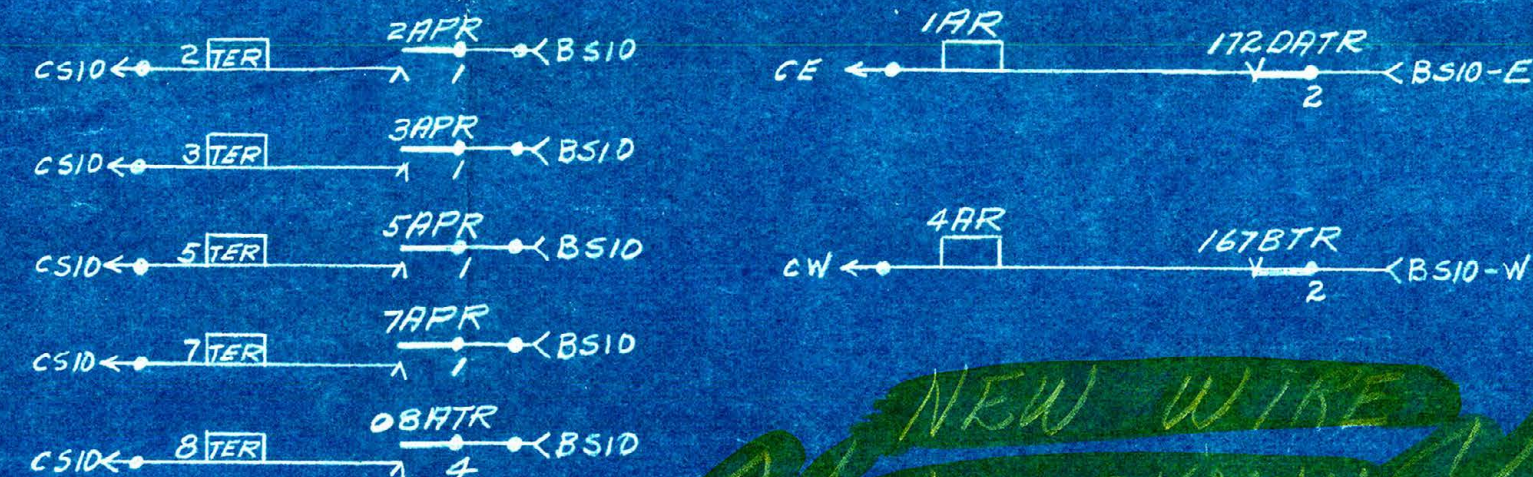
TRAP STICK CIRCUITS



SIGNAL LIGHTING

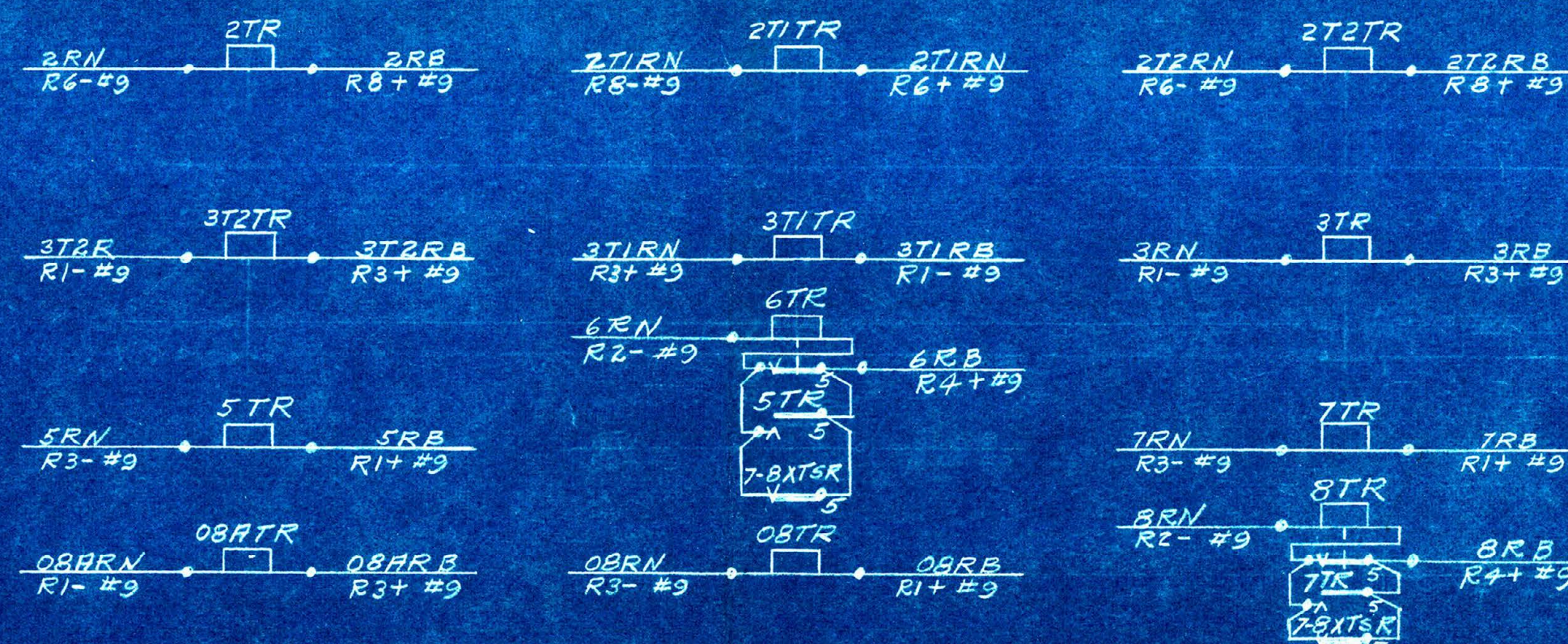


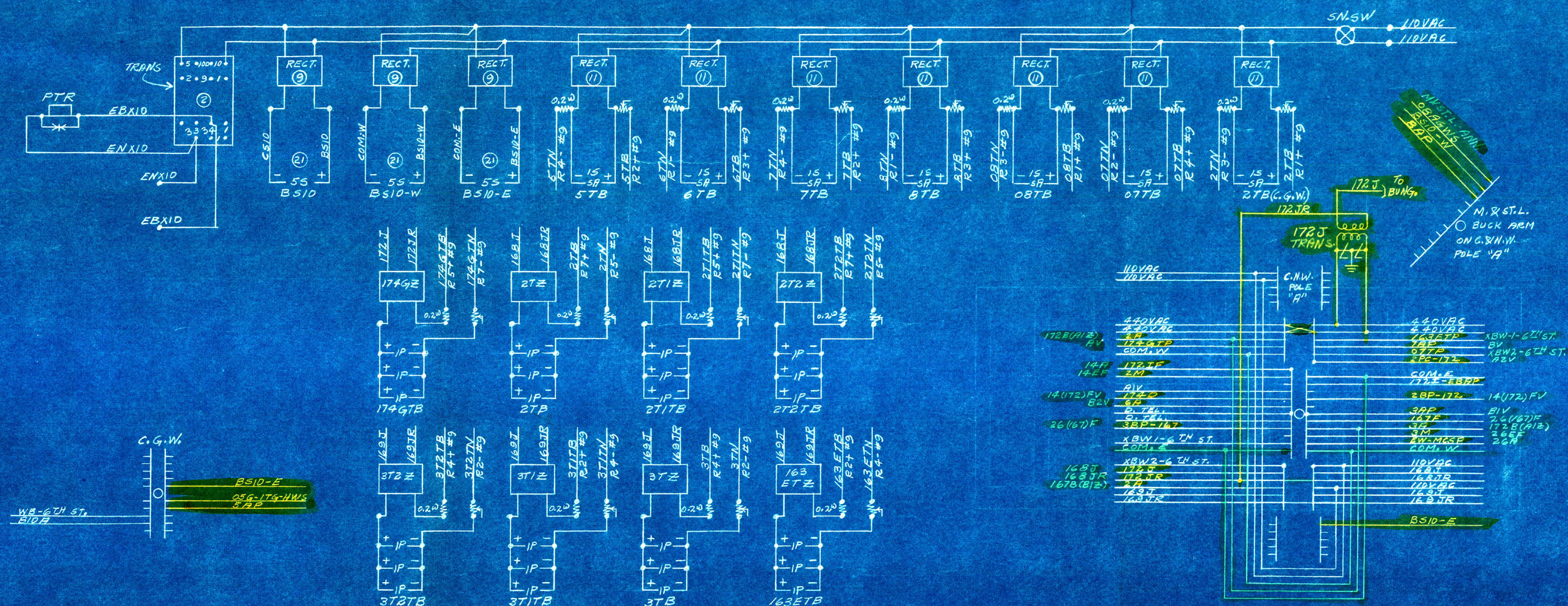
APPROACH AND TIMING CIR.



NEW WIRE
AS SHOWN

TRACK AND TRACK REPEATER RELAYS





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BUNGALOW RELAY ARRANGEMENT

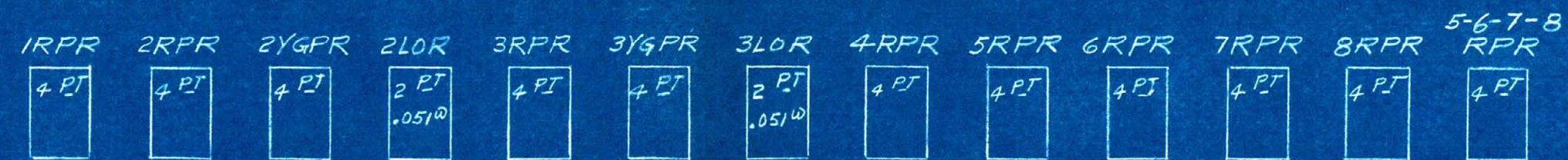
MADE 7-5-16
REVISIONS

SIDE - "A"

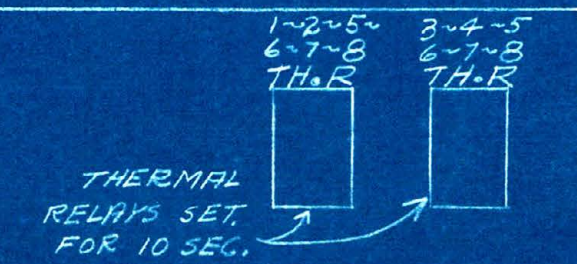
ALL RELAYS 500^W EXCEPT WHERE NOTED

SIDE - "B"

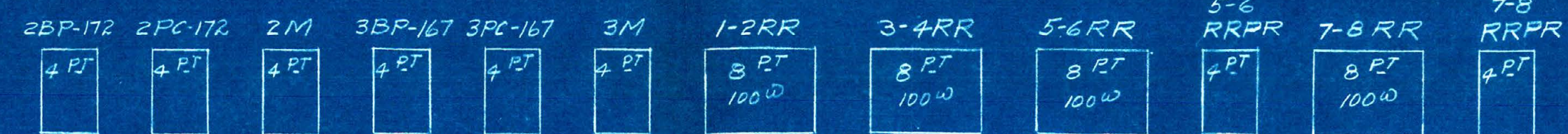
SHELF-1



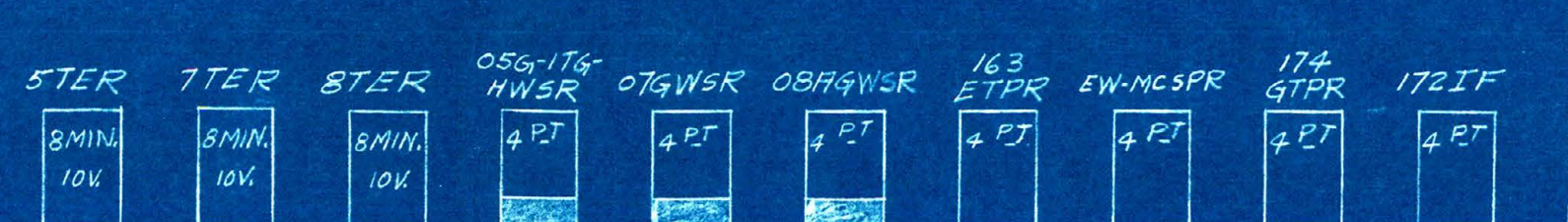
TERMINAL BOARD



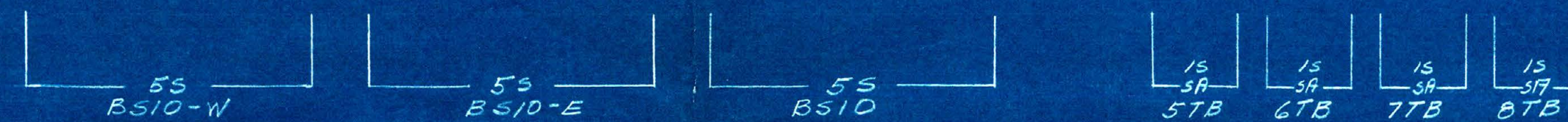
SHELF-2



SHELF-3



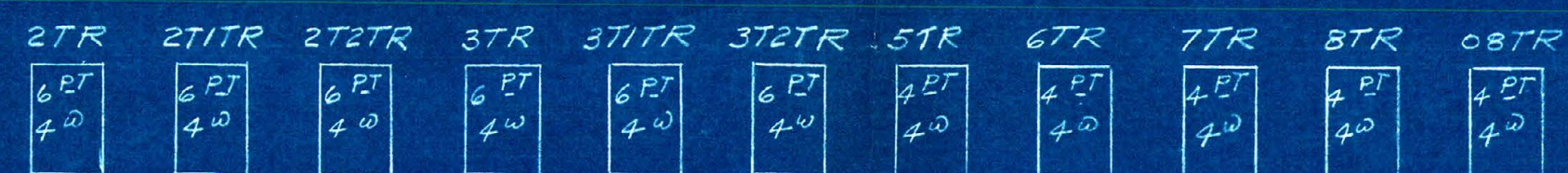
BATT. TRAY



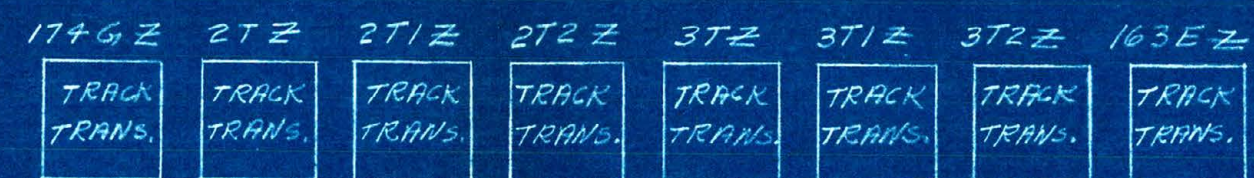
SIDE - "C"

SIDE - "D" (ENTRANCE BOARD)

SHELF-1



TERMINAL BOARD



SHELF-2



SHELF-3



NEW WIRE

HAS SHOWN

DRAWN BY SLD

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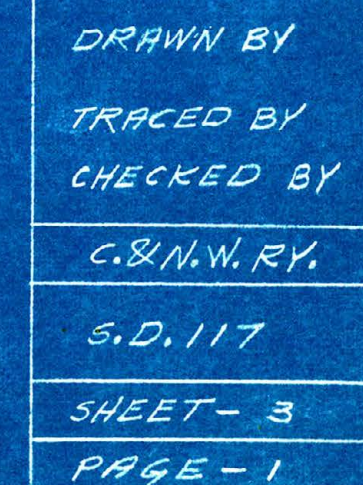
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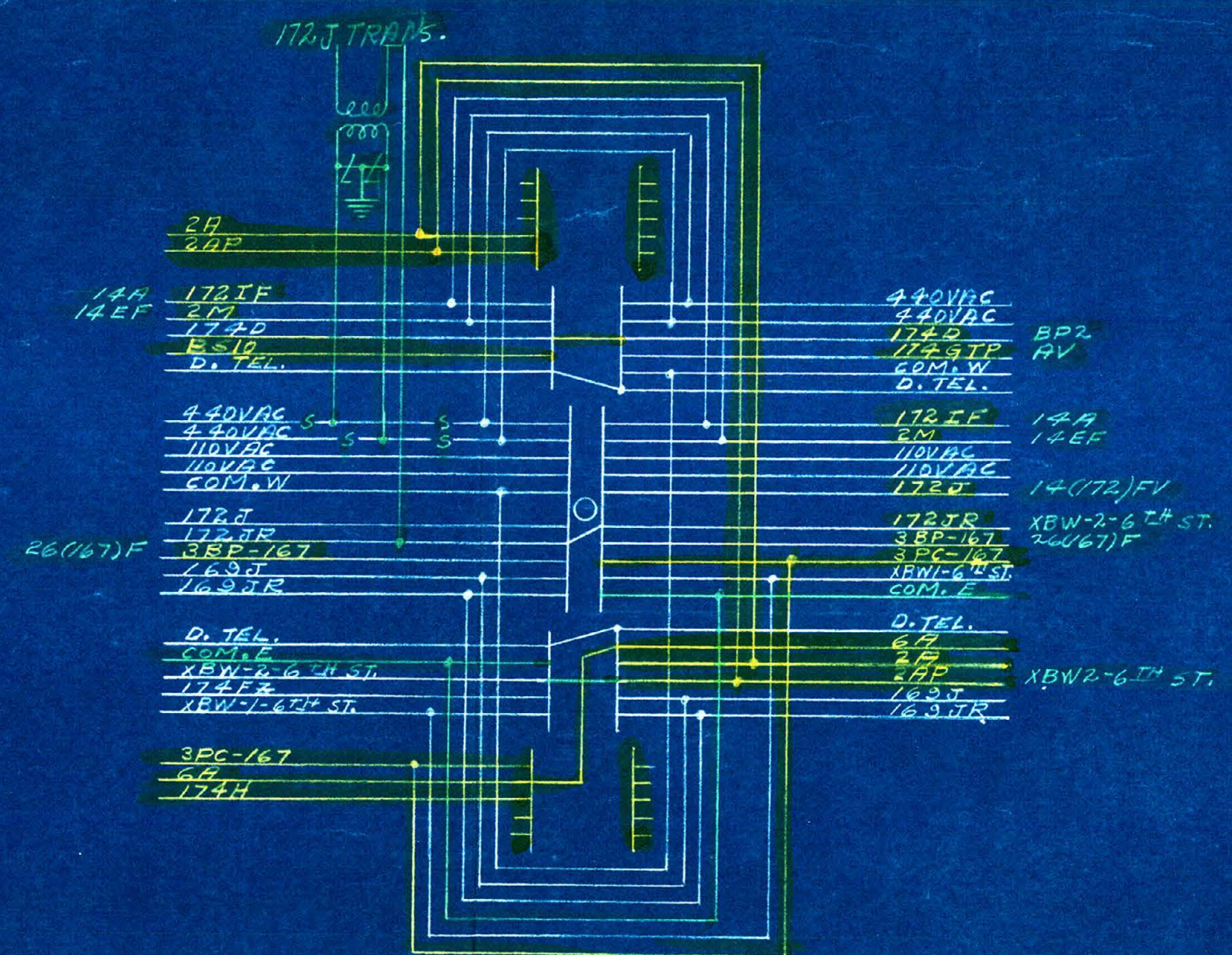
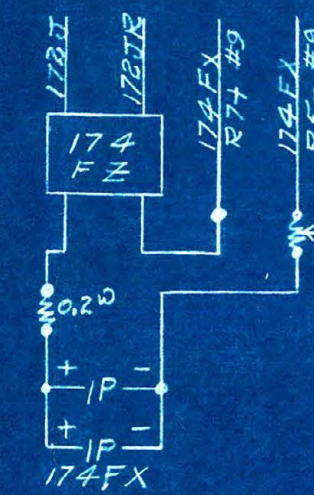
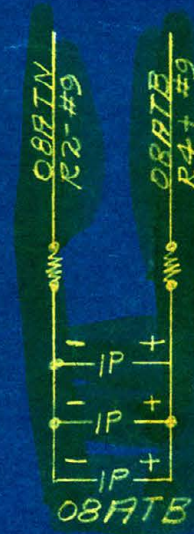
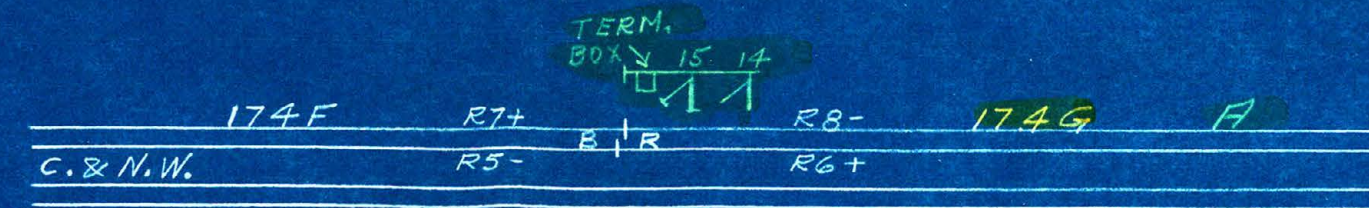
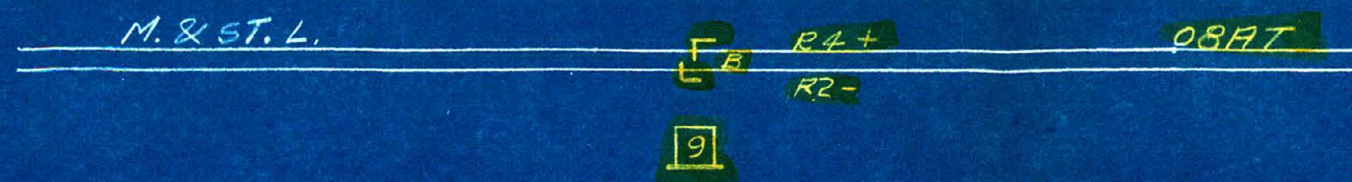
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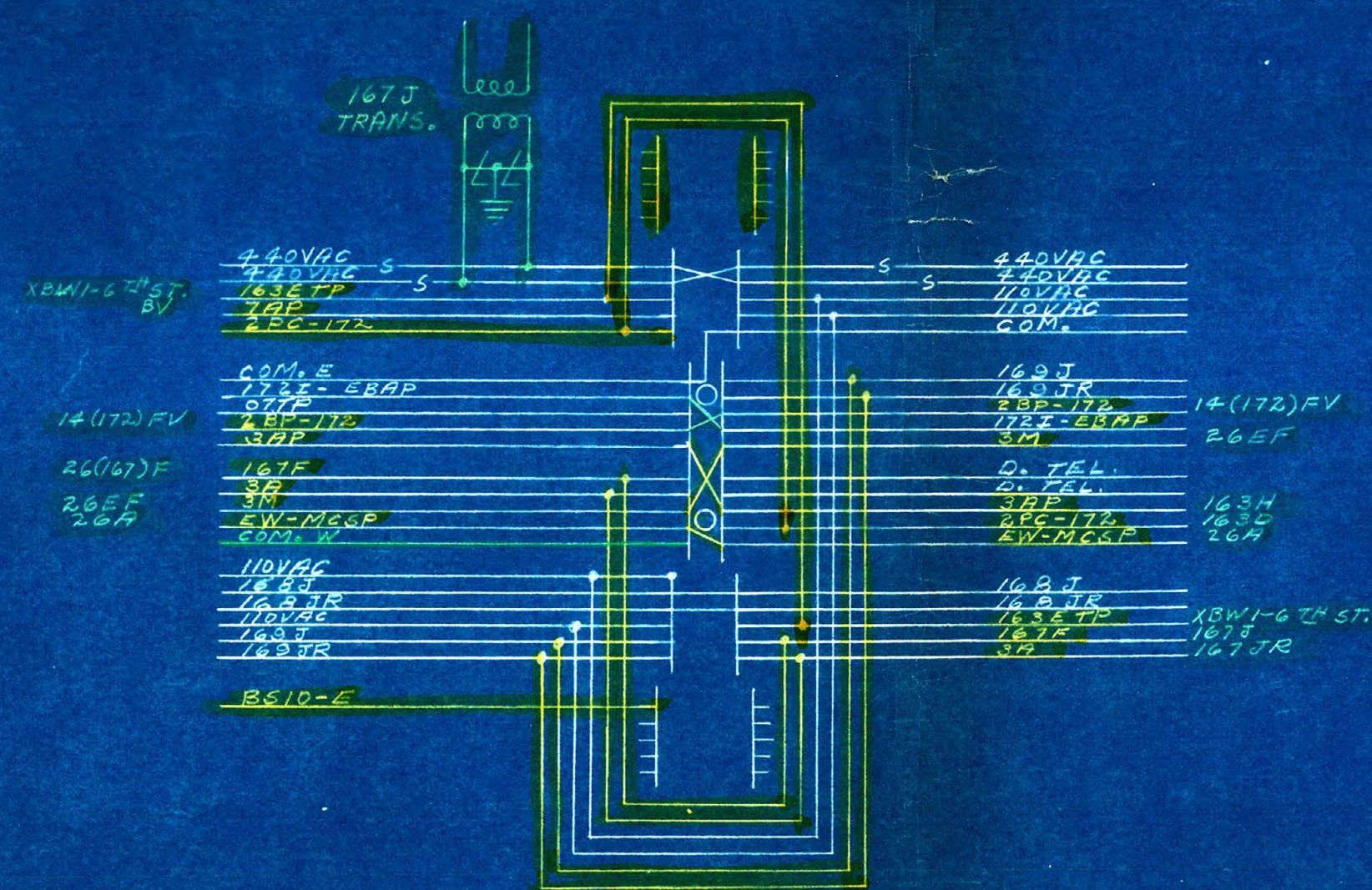
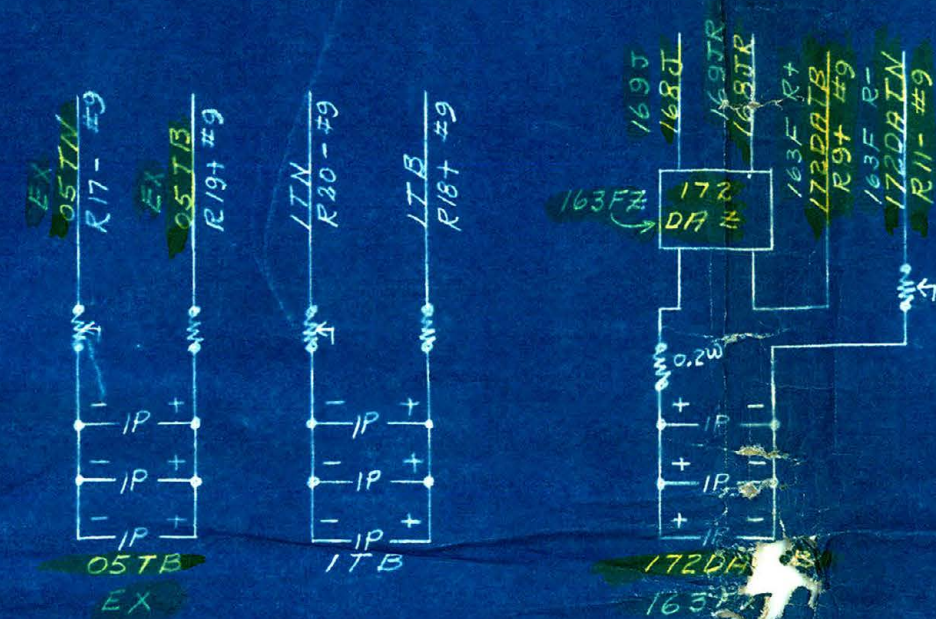
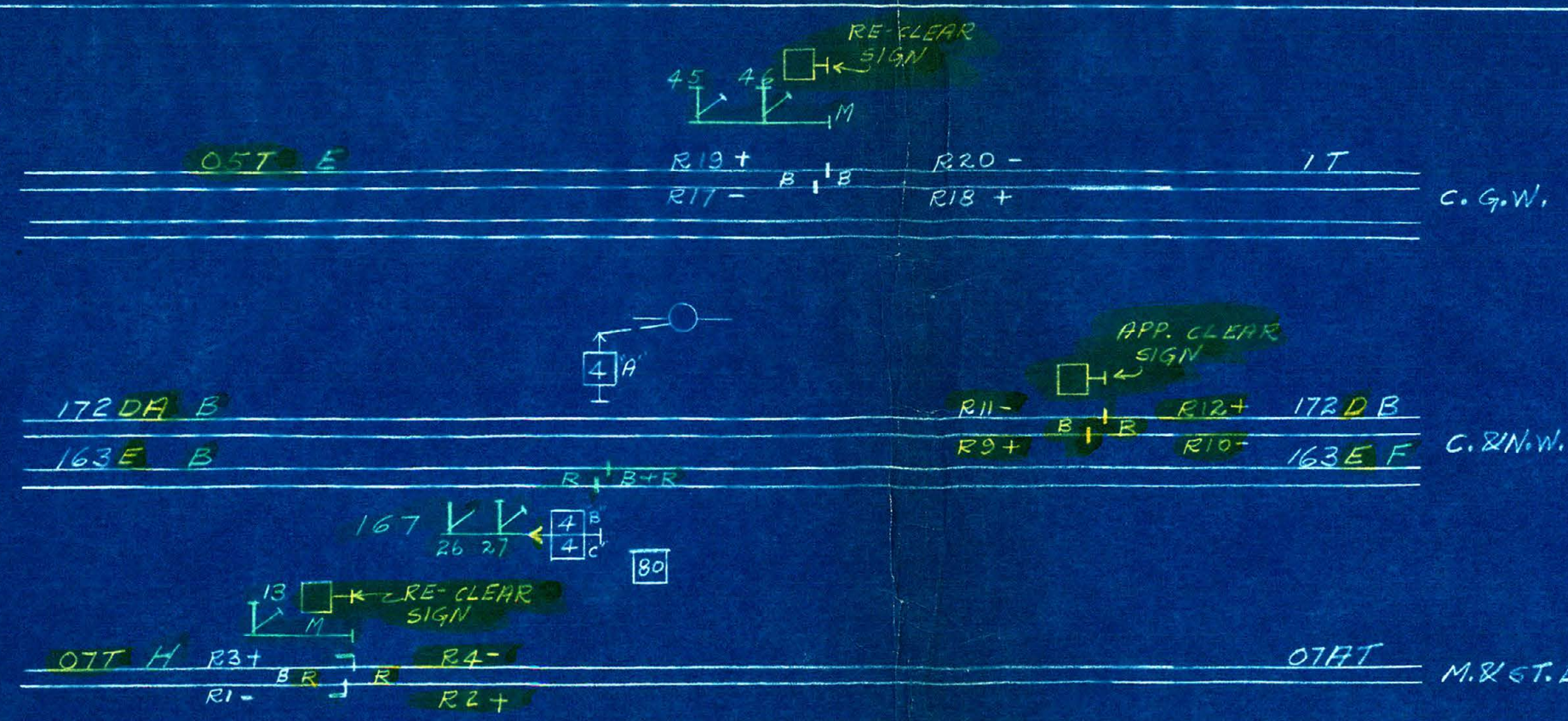
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TERCED BY

CHECKED BY

C. R. N. W. R. Y.

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