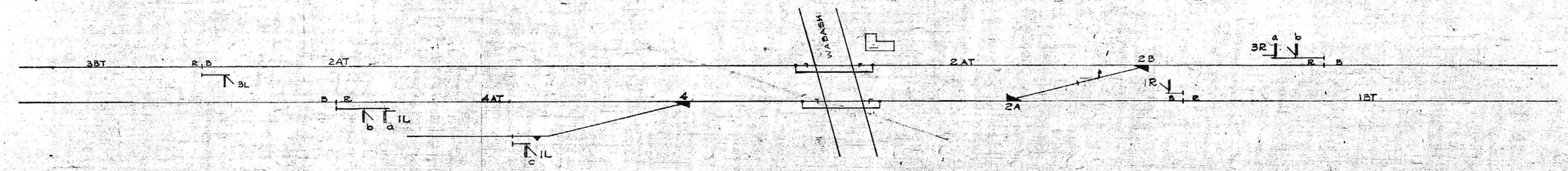
SHEET 1 OF 14

TOLONO, ILL. SD 14 (

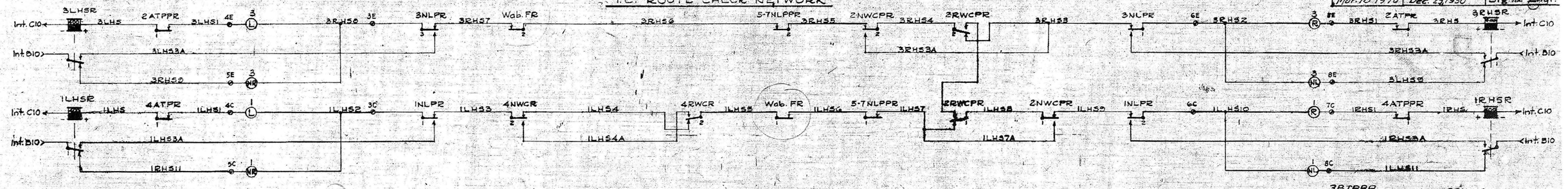
ALL RELAY INTERLOCKING CIRCUIT PLAN

Office of Signal Engr.
I.C.G.R.R. Chicago, Ill.

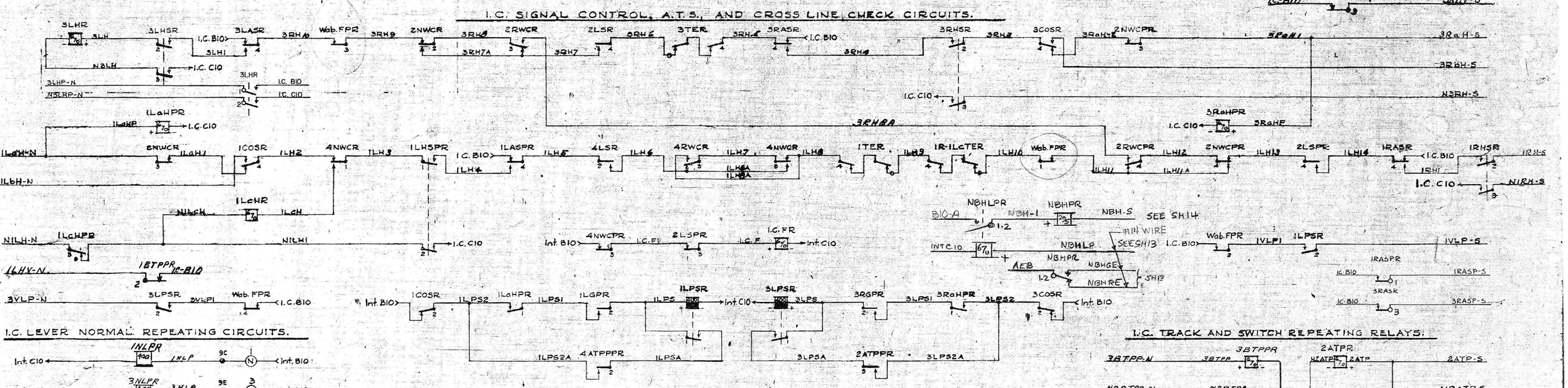
Dec. 13, 1951	Aug. 24, 1949	Checked:
Sept. 17, 1956	Oct. 24, 1949	W.H. Cle
Aug 19, 1961	Nov. 15, 1949	Approved:
APR. 25, 1966	July 20, 1950	H.G. Mc...
Mar. 10 1970	Dec. 29, 1950	Signal Engr.



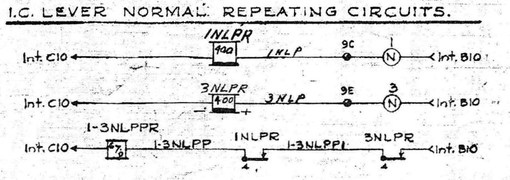
I.C. ROUTE CHECK NETWORK



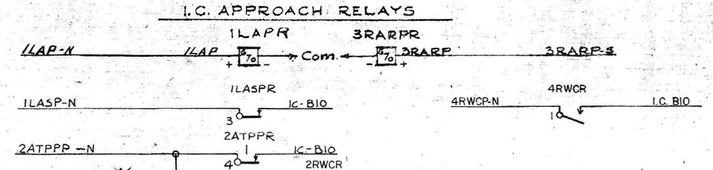
I.C. SIGNAL CONTROL, A.T.S., AND CROSS LINE CHECK CIRCUITS.



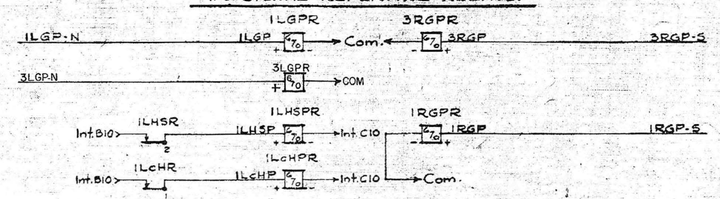
I.C. LEVER NORMAL REPEATING CIRCUITS.



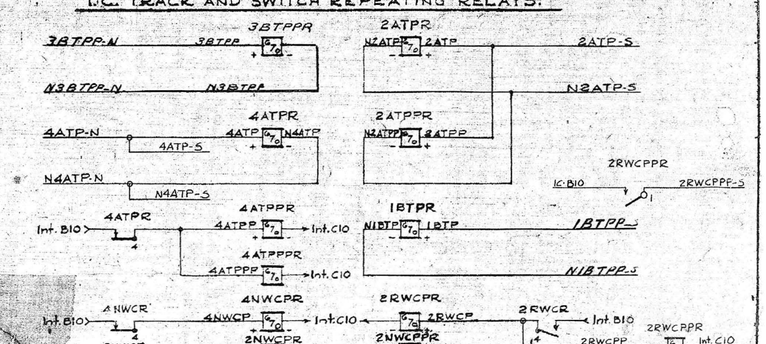
I.C. APPROACH RELAYS



I.C. SIGNAL REPEATING RELAYS.

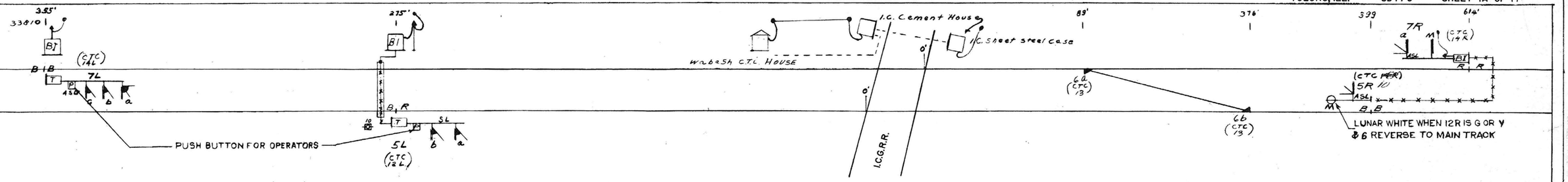


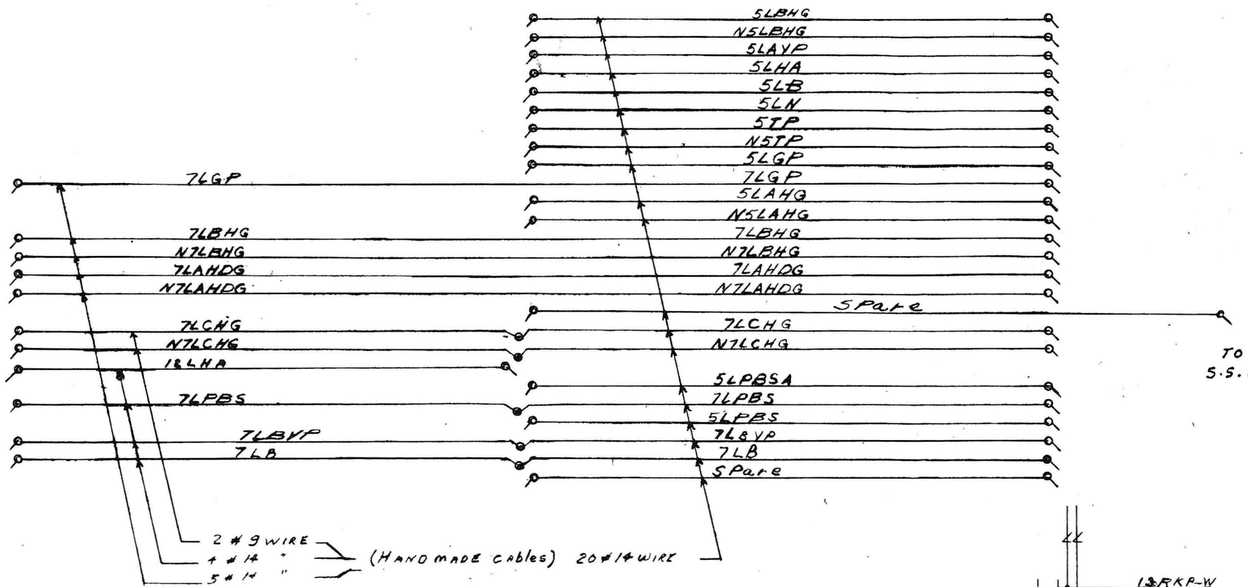
I.C. TRACK AND SWITCH REPEATING RELAYS.



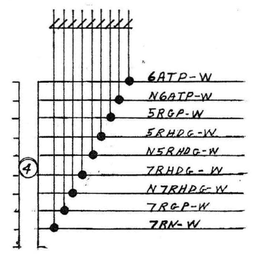
Drawn: Tw... 10-20-81

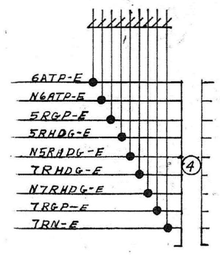
4-28-94

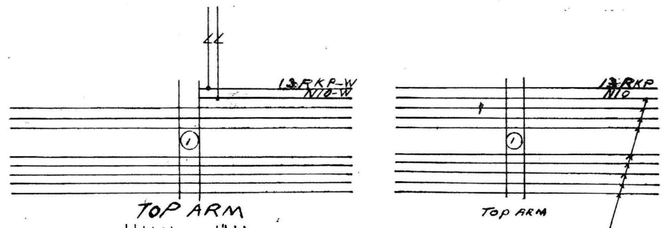


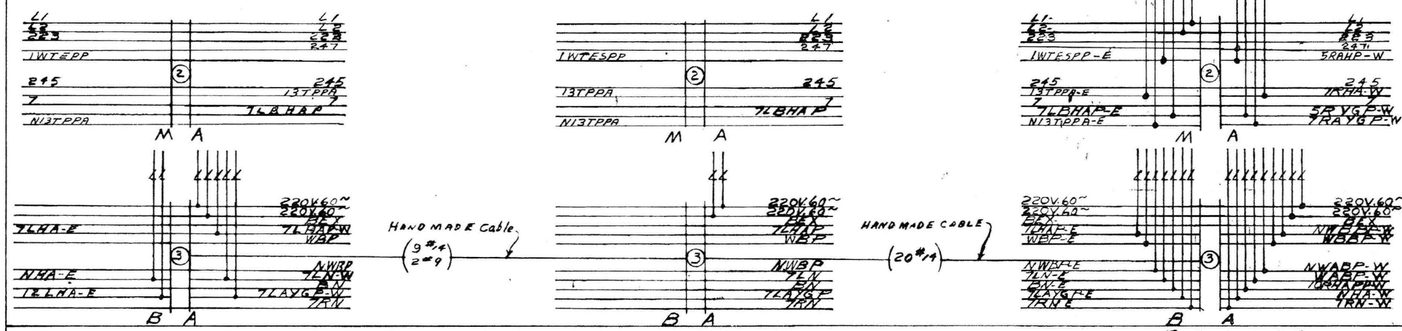


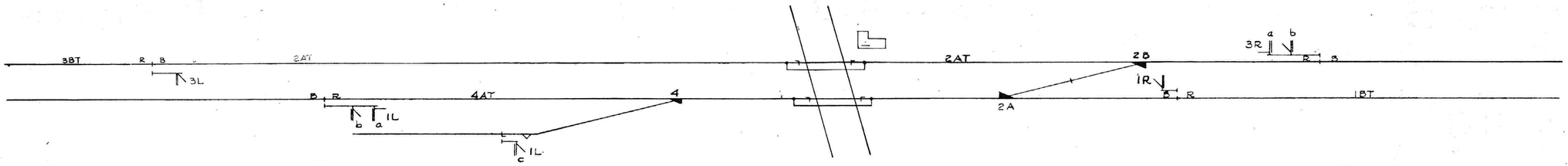
Note:
Some LINE wires have I.C. nomenclatures on one end & Wabash nomenclatures on other end.



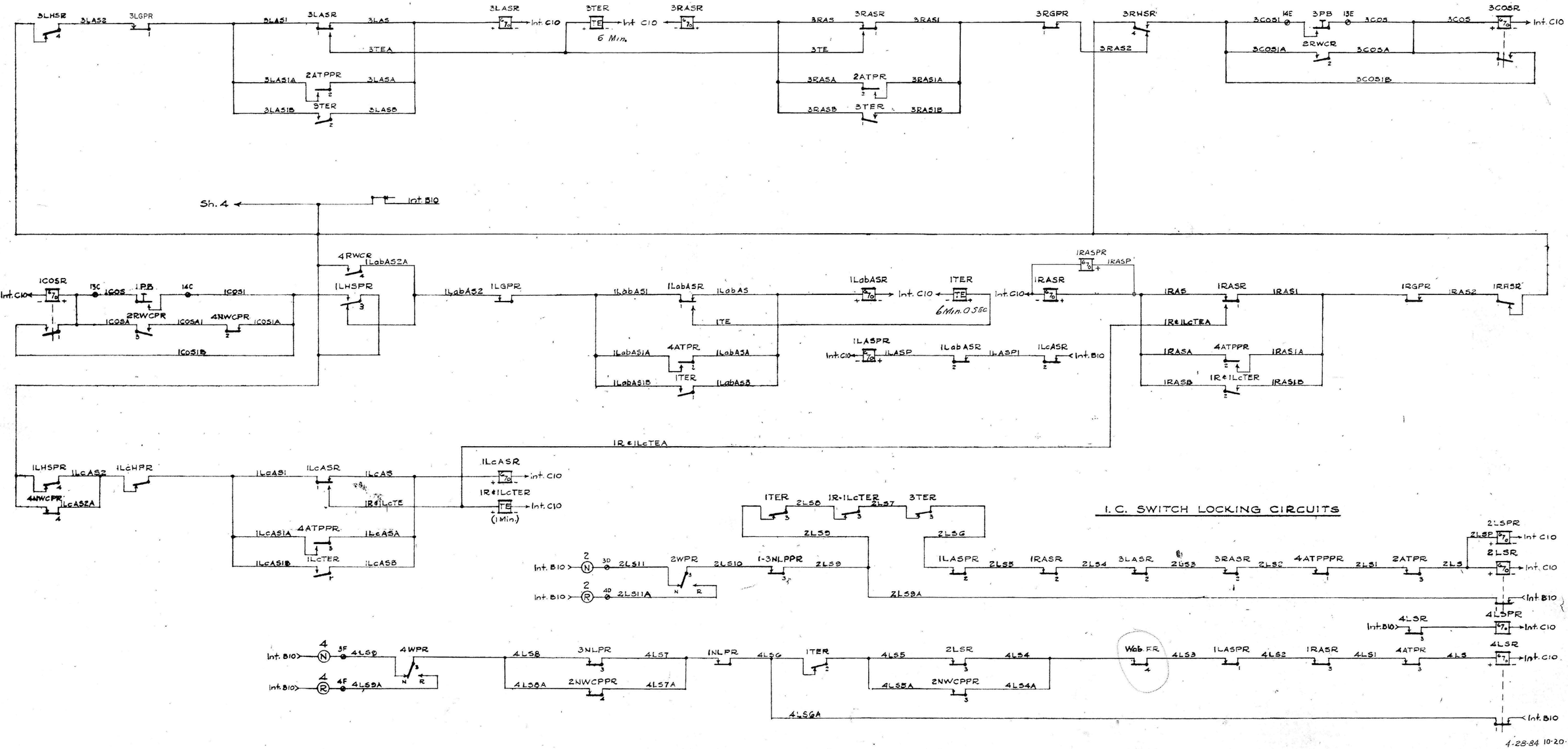






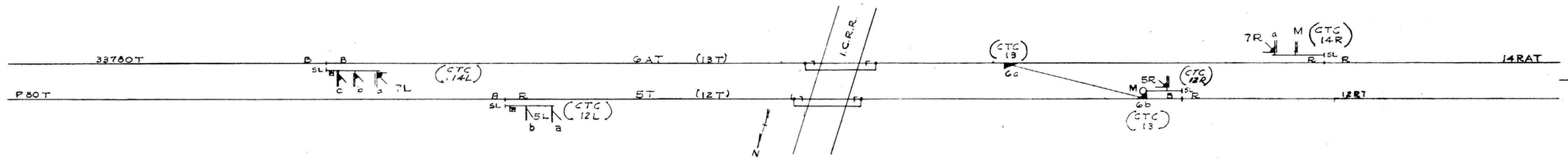


I.C. APPROACH STICK, CALL ON STICK AND TIME RELEASE CIRCUITS.

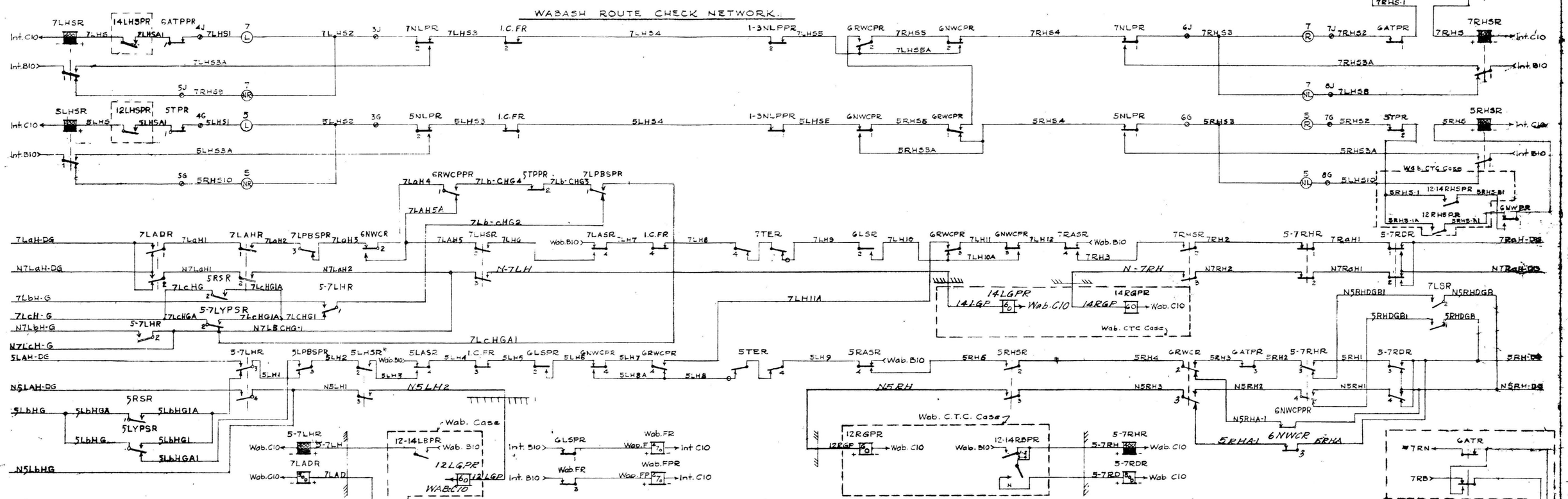


I.C. SWITCH LOCKING CIRCUITS

4-28-84 10-20-81

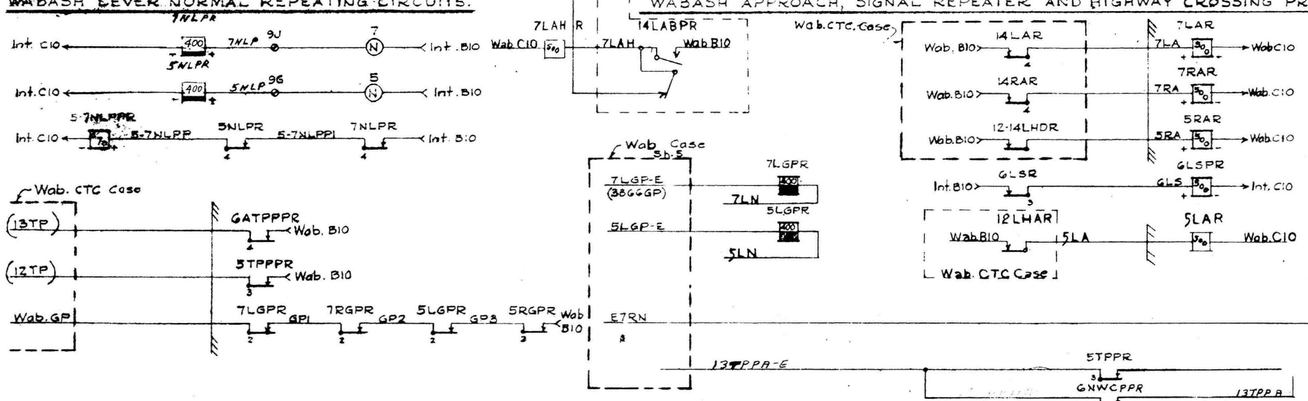


WABASH ROUTE CHECK NETWORK.

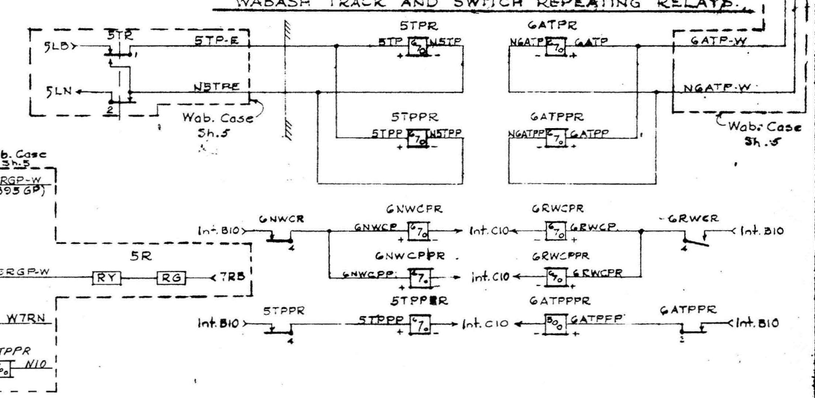


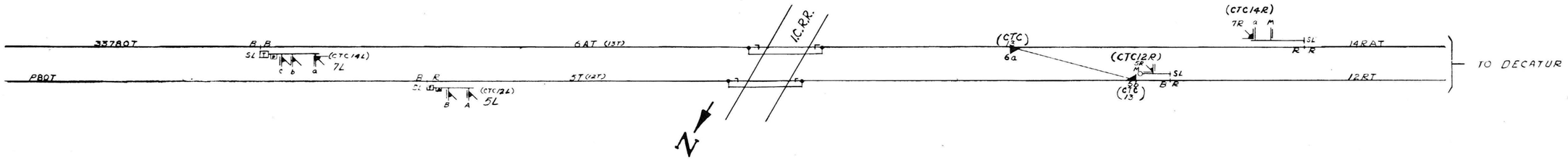
WABASH LEVER NORMAL REPEATING CIRCUITS.

WABASH APPROACH, SIGNAL REPEATER AND HIGHWAY CROSSING PROTECTION CIRCUITS.

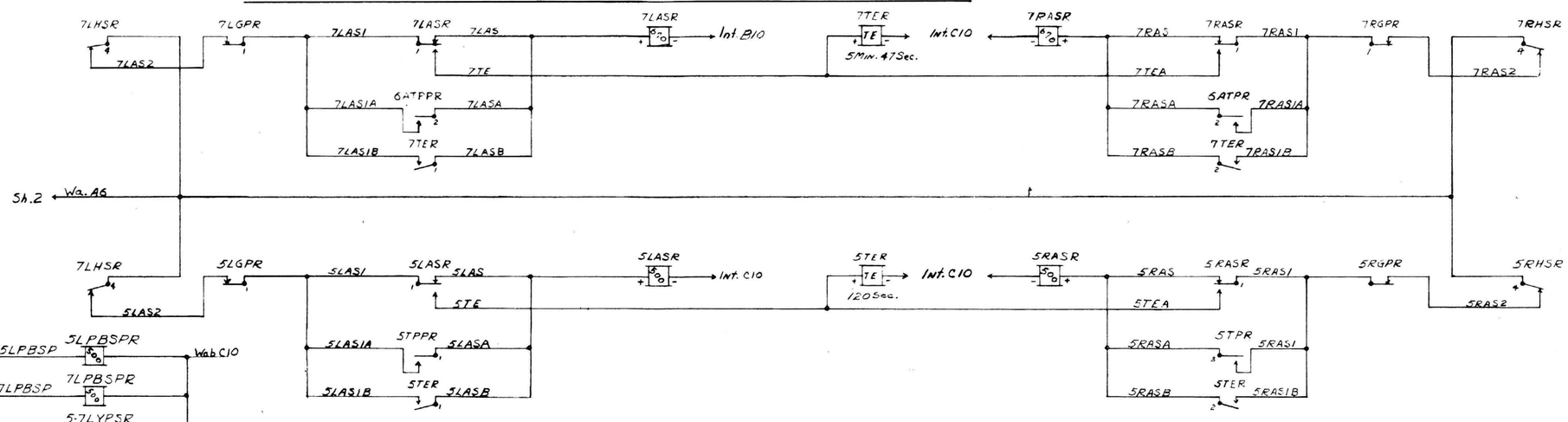


WABASH TRACK AND SWITCH REPEATING RELAYS.

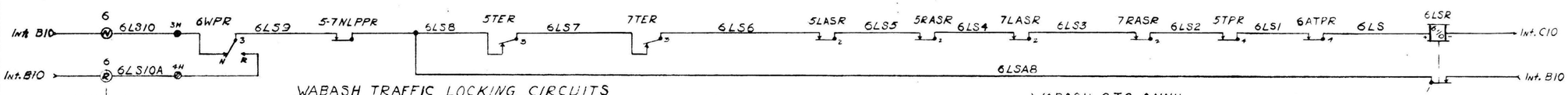




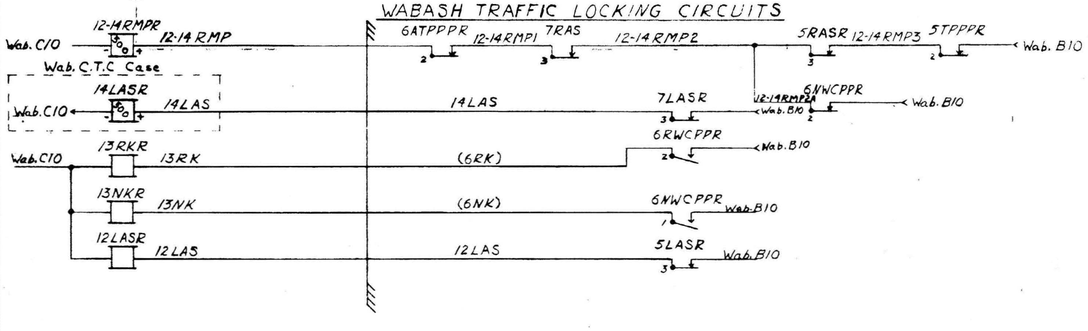
WABASH APPROACH STICK, CALL ON STICK AND TIME RELEASE CIRCUITS.



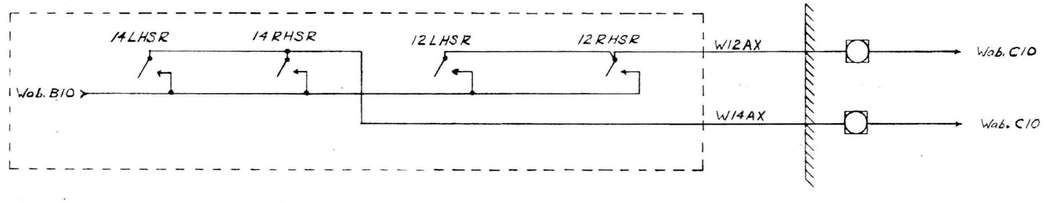
WABASH SWITCH LOCKING CIRCUITS



WABASH TRAFFIC LOCKING CIRCUITS



WABASH C.T.C. ANNU



NOTE:—OPERATOR'S INSTRUCTIONS:- Push button to Secure Signal for movement against current of traffic on passing track.

WABASH SIGNAL WIRING DETAILS

337BOT

PBOT

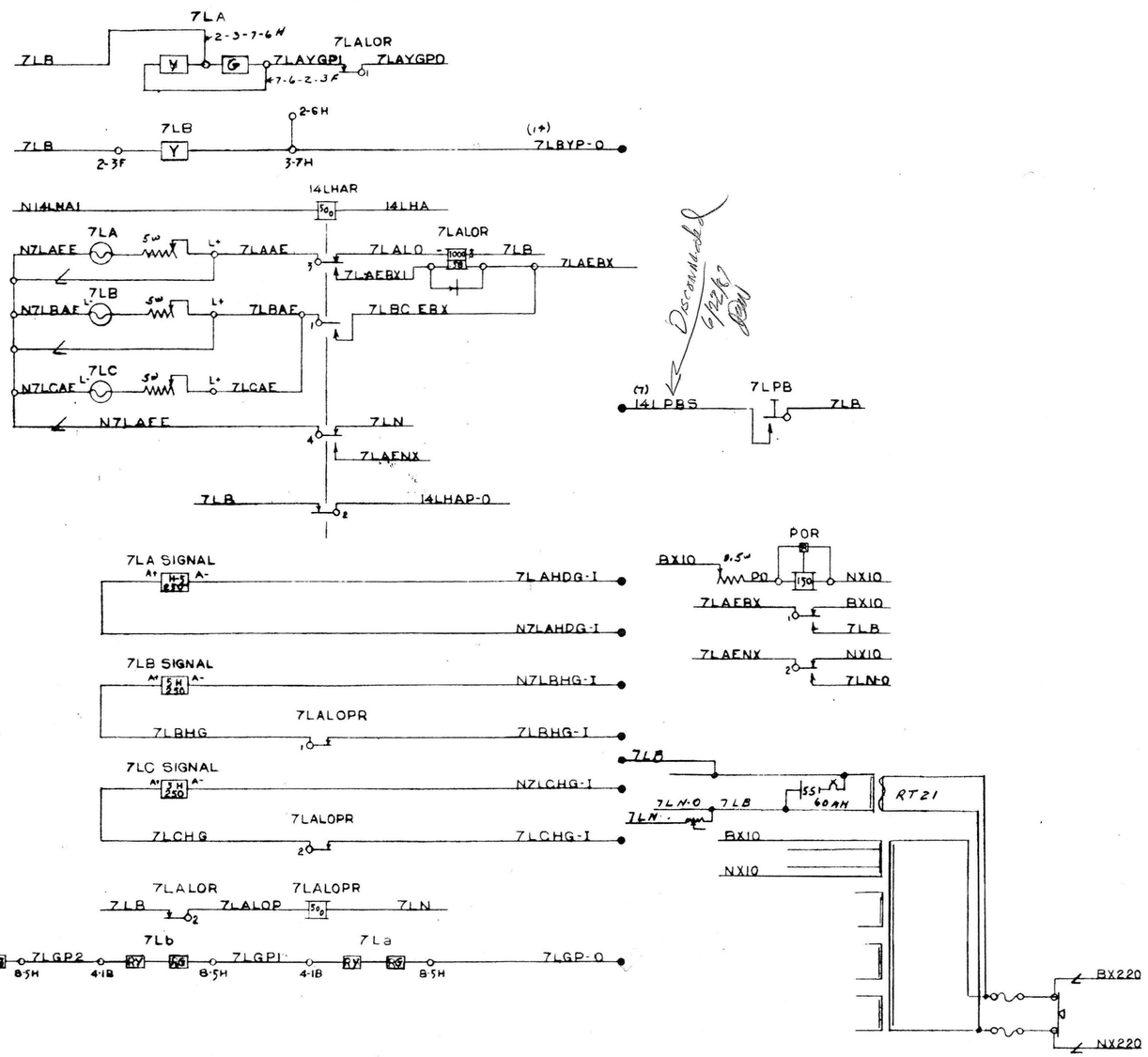
B, B (CTC 14L) SL 15 c b a 7L Push button box for Operator (See Note)

6AT (13T)

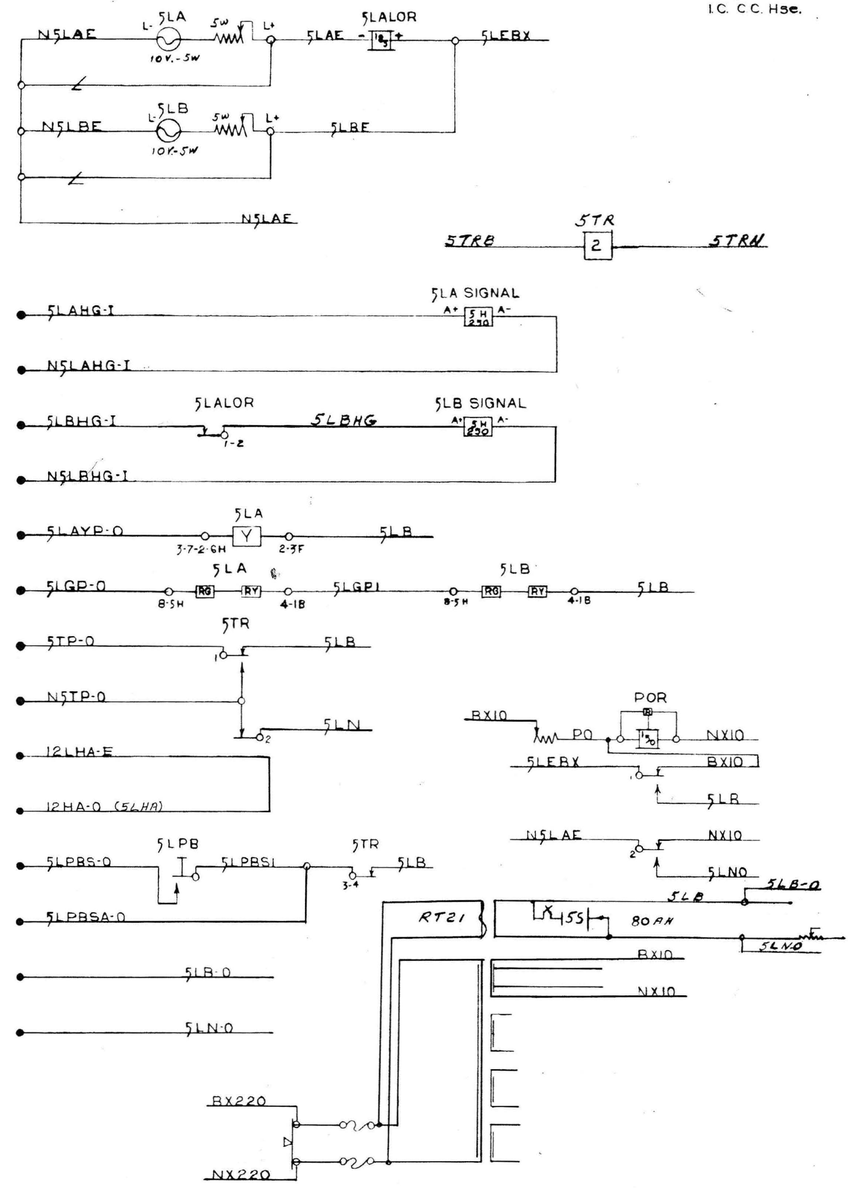
B, R (CTC 15L) SL 15 b a 5L Push button box for Operator (See Note)

5T (12T)

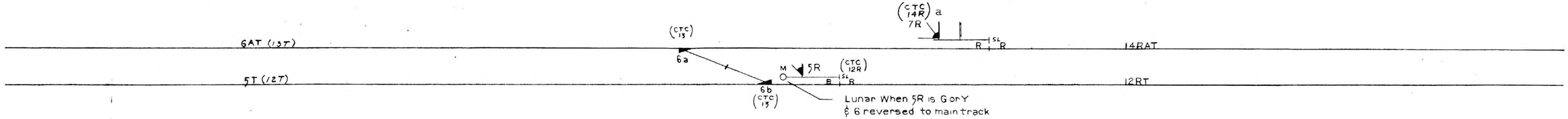
WIRING OF CASE AT 7L SIGNAL



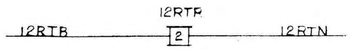
WIRING OF CASE AT 5L SIGNAL

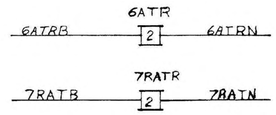


Drn By GEP

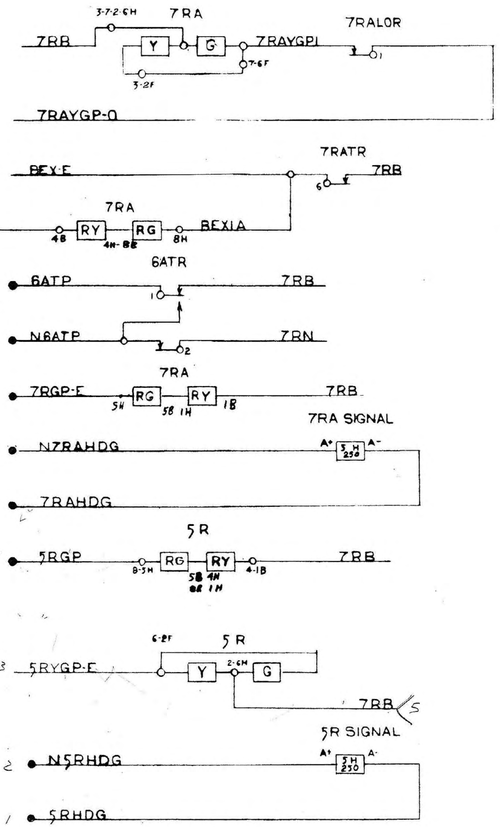


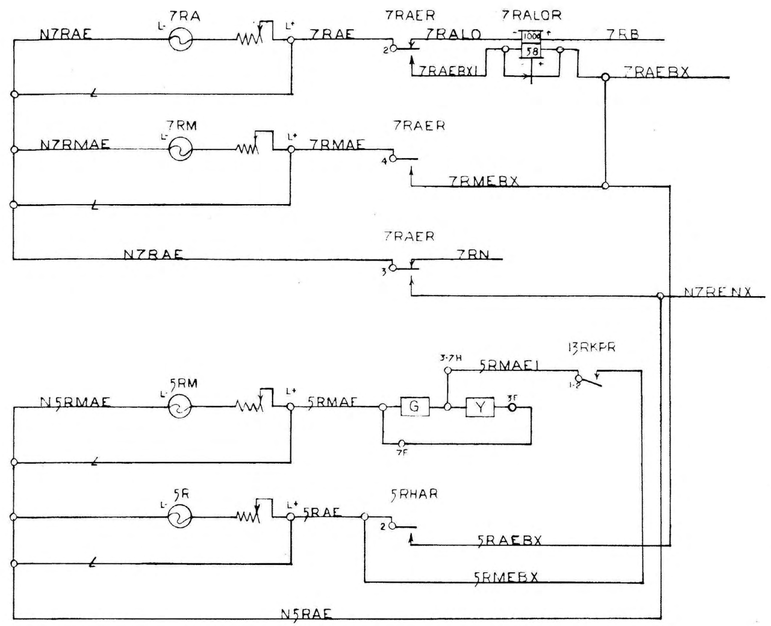
WIRING OF CASE AT 7R SIGNAL

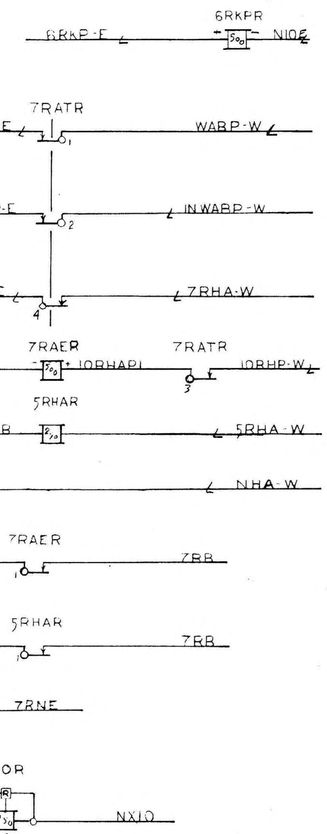


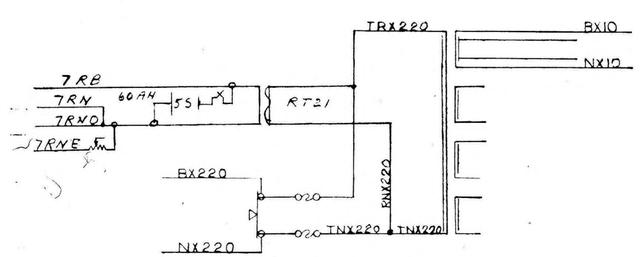


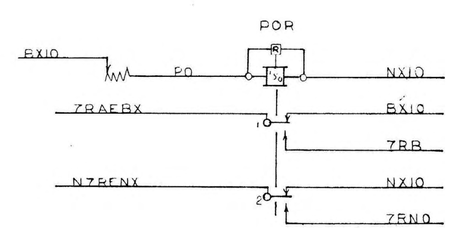
MADE UP CABLE TO I.C. HSE







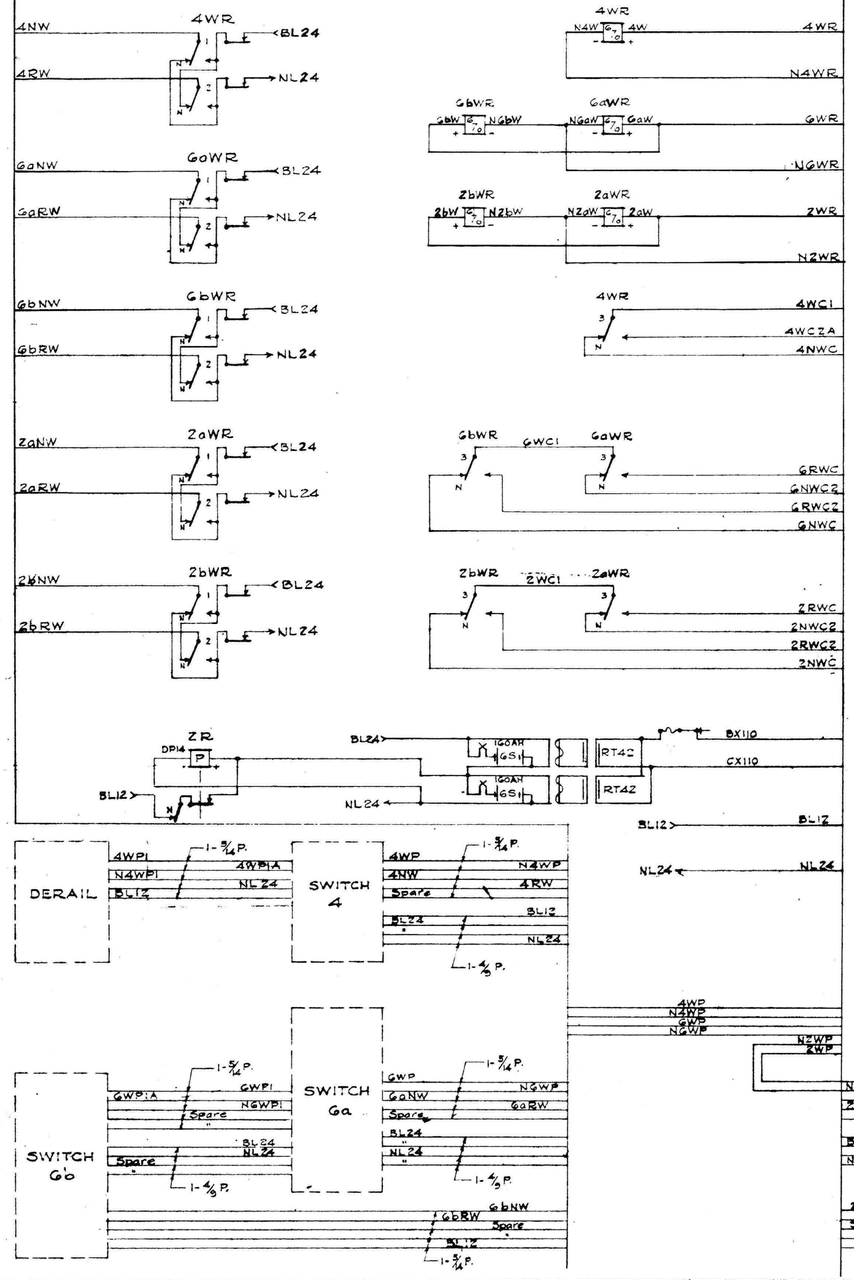




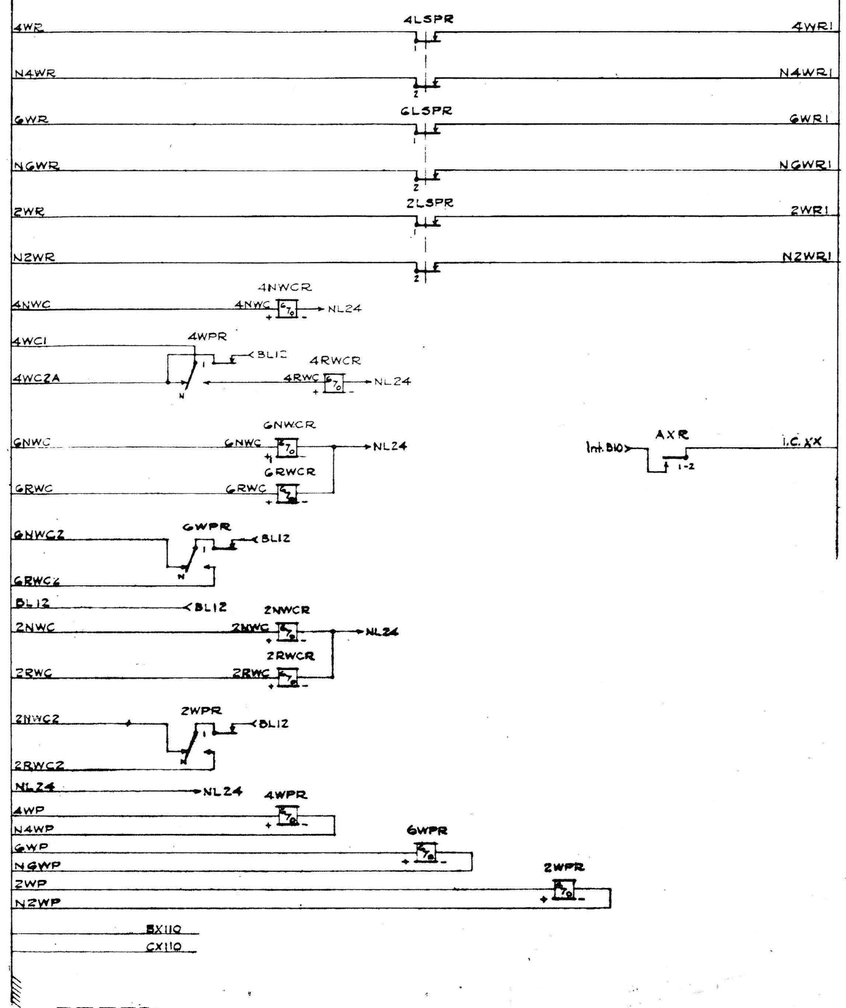
21

GEP

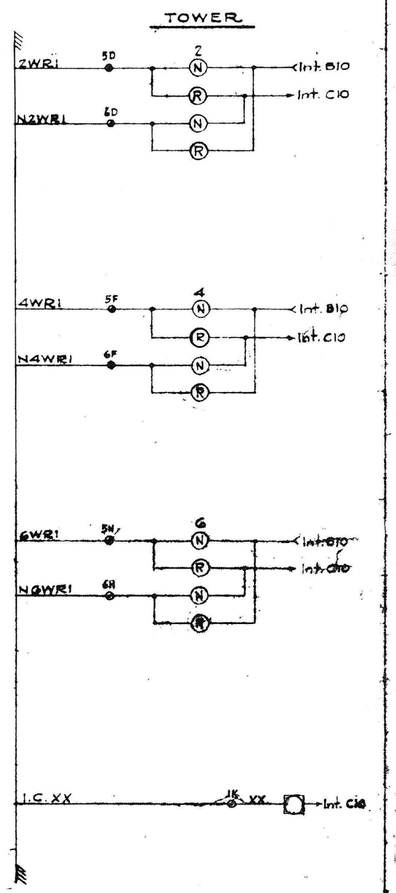
SHEET STEEL CASE



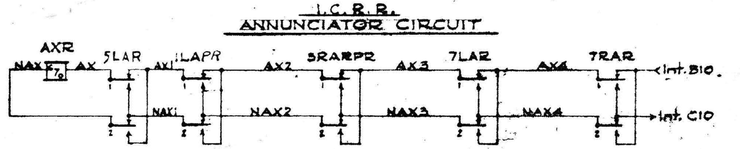
TOWER INST. HOUSE.

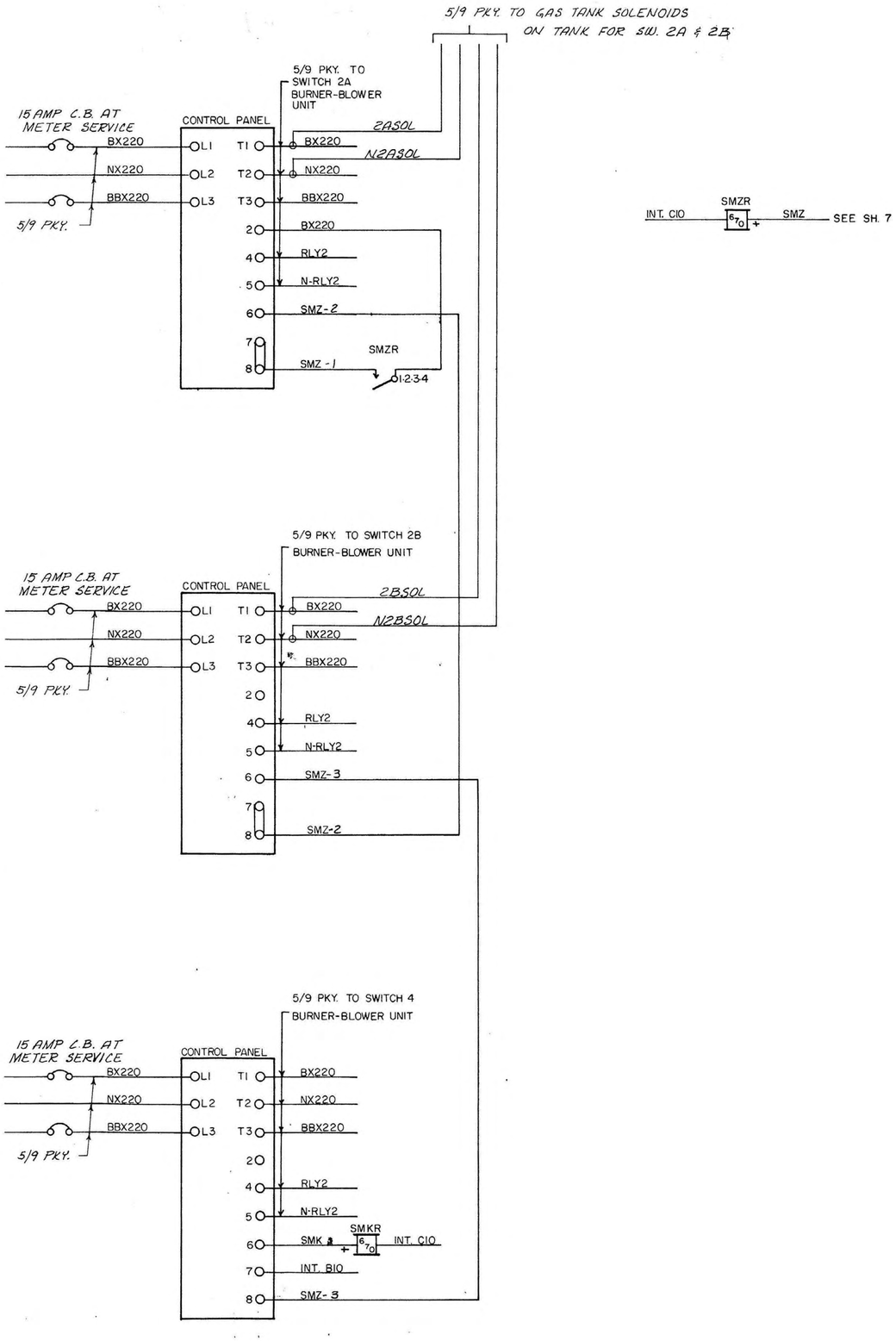


TOWER



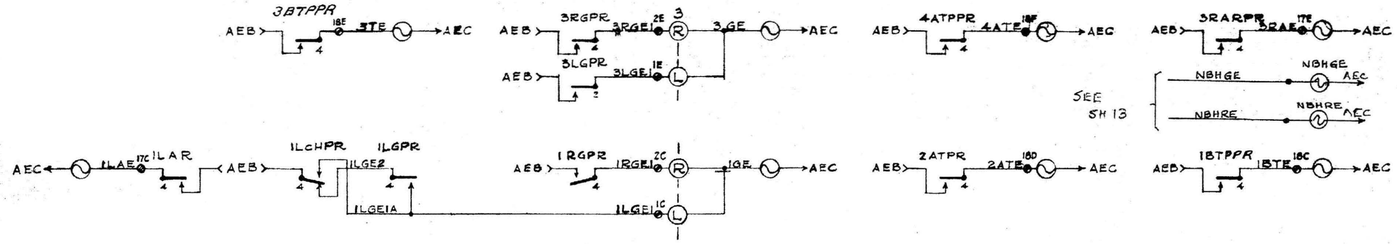
I.C.R.R. ANNUNCIATOR CIRCUIT



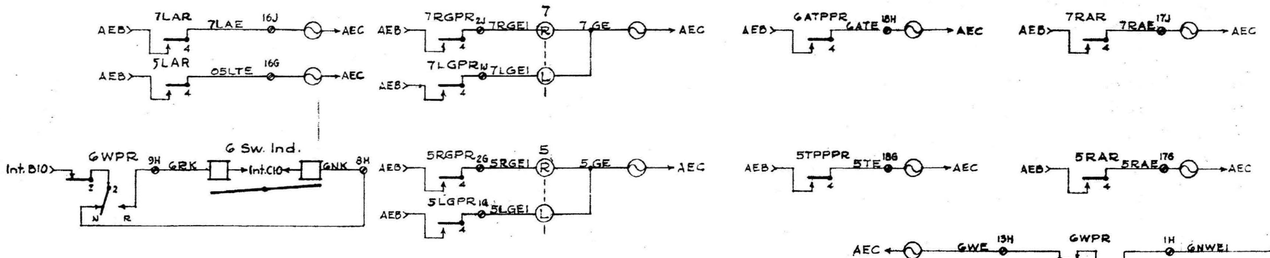

5/9 PKY. TO GAS TANK SOLENOIDS ON TANK FOR SW. 2A & 2B
5/9 PKY. TO SWITCH 2A BURNER-BLOWER UNIT
15 AMP C.B. AT METER SERVICE
CONTROL PANEL
BX220
NX220
BBX220
5/9 PKY.
L1
L2
L3
T1
T2
T3
2
4
5
6
7
8
2ASOL
N2ASOL
RLY2
N-RLY2
SMZ-2
SMZR
SMZ-1
1-2-3-4
INT. CIO
SMZ
SEE SH. 7
5/9 PKY. TO SWITCH 2B BURNER-BLOWER UNIT
2BSOL
N2BSOL
SMZ-3
5/9 PKY. TO SWITCH 4 BURNER-BLOWER UNIT
SMKR
SMK
INT. BIO

4-23-84

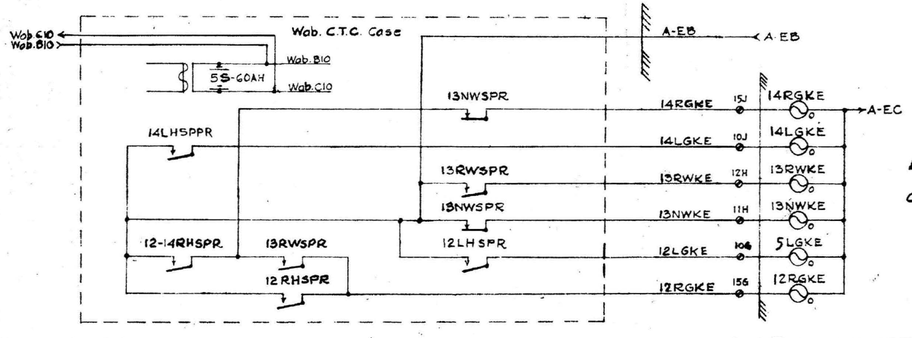
I.C. TRACK DIAGRAM AND LEVER LIGHT CIRCUITS.

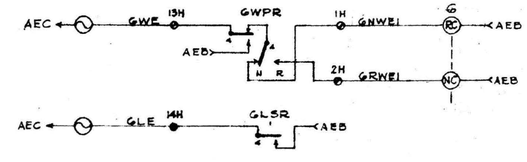


WABASH TRACK DIAGRAM AND LEVER LIGHT CIRCUITS.



WABASH C.T.C. INDICATION CIRCUITS.





136.7XNBM-NB-N 136.7XNBM-NB-S

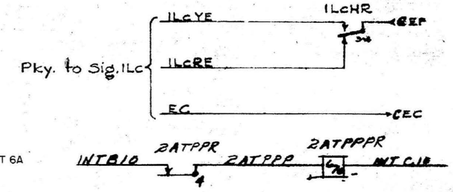
BX110-N 30A BX110

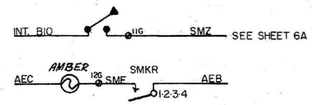
CX110-N CX110

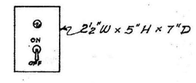
136.9XNBM-NBN 136.9XNBM-NB-S

LIGHTING AND POWER CIRCUITS.

LIGHTING OF SIGNAL - 1LC

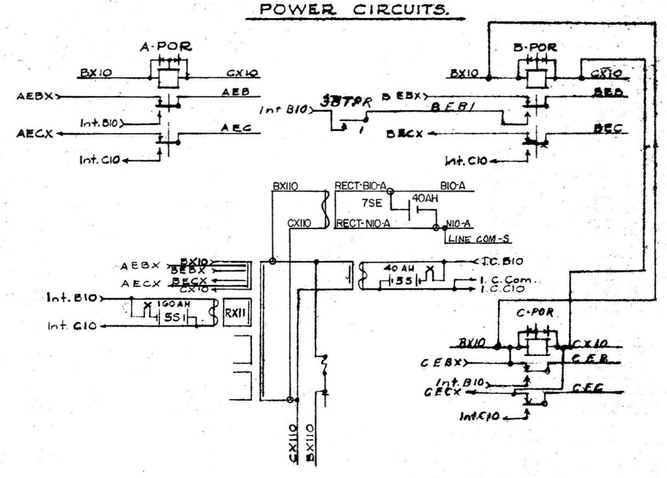






LIGHT & S.P.S.T. SWITCH INSTALLED IN PLASTIC TRIPLETT METER CASE - MOUNTED AT TOP OF RIGHT SIDE OF INTERLOCKING PANEL IN TOWER ON OPERATOR'S DESK

POWER CIRCUITS.



TOLONO ILL.

CONTROL PANEL WIRING DIAGRAM.

AEC

NBH

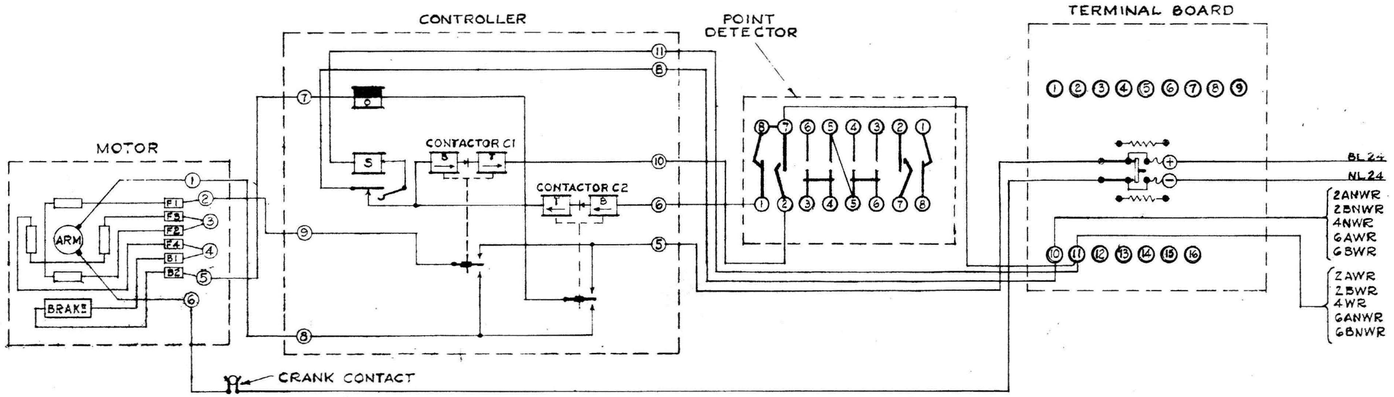
INT BIO

NBH LP

NBH RE

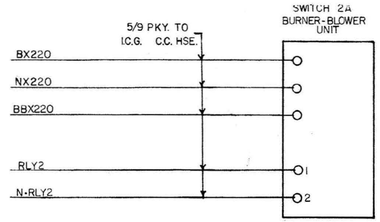
NBH GE

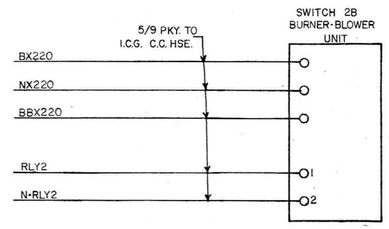
TYPICAL SWITCH MOTOR WIRING, 5C MACHINE



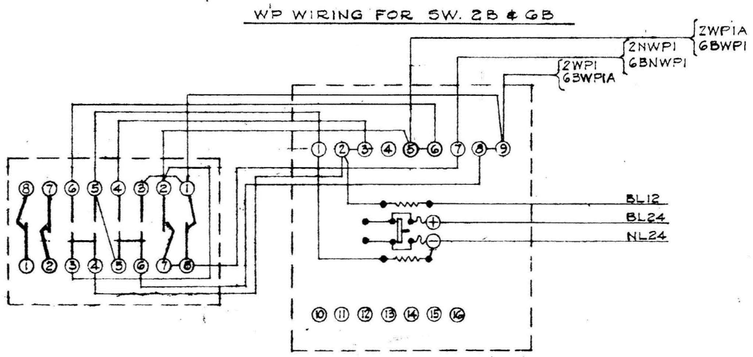
SWITCH MACHINE WIRING

RIGHT HAND MACHINE SHOWN.

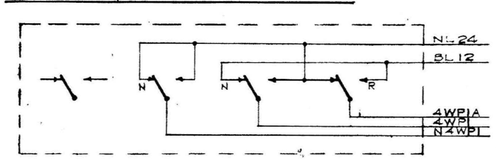




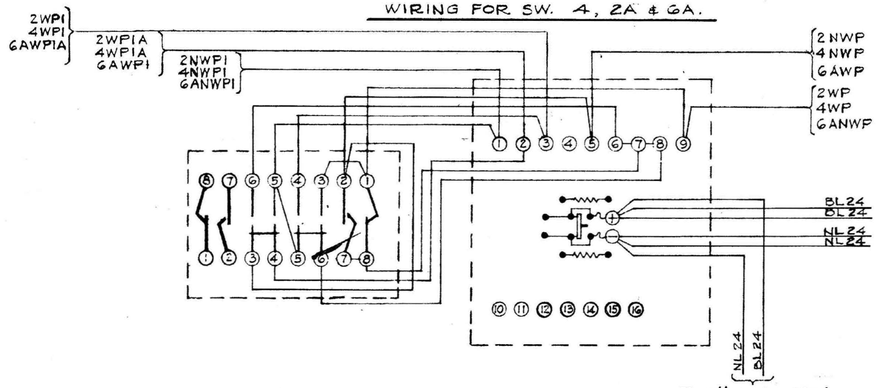
WP WIRING FOR SW. 2B & 6B

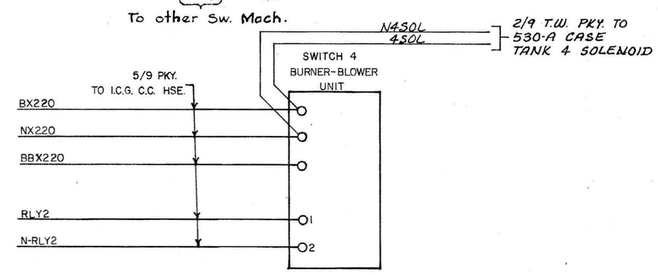


WP WIRING, SW. BOX DERAIL 4B



WIRING FOR SW. 4, 2A & 6A.





RELAY DETAILS

SOUTH WALL

AXR
1CXX
1CXX

1COSR
1COS
1LPS
1LAH 1LAH

2LSR
2LS
2LE
4LS
3RH

2LSPR
2WR
N2WR
1GF
1LH

1LGHR
1LGHP
1LGXE 1LGRE
1LGXE 1LGRE

1LGHPR
1LGAS
NILH
1LGE 1LGE

1LGASR
1LGAS 1RELGTE
1LAS

1LASPR
4LS
2LS
1LASP
1LH 1LH

1LAPR
AX NAX
NAX AX
1LAE

1LAHPR
1LPS

1LHSR
1LHS 1RHS
1LHSP

1LHSPR
1LH
NILH
1COS 1LABAS
1LCAS

1RHSR
1RHS
1RH
NIRH
1RAS

4LSR
4LS
1LH
4LSP
4LE

4LSPR
4WR
N2WR

3LGPR
3LAS
3LGE

3LHSR
3LHS 3RHS
3LH
N3LH
3LAS

3LASR
3LAS 372A
2LS
3RH 3LH

3RAHPR
3LPS

3RHSR
3RHS 3LHS
3RHS
N3RHS
3RAS

3LPSR
3LPS
3VLP

3COSR
3COS
3LPS
3RBH 3RAH

1RASR
1RAS 1RELGTE
2LS
4LS
1LH 1RH

1LGPR
1LABAS
1LPS
1LGE

1RGPR
1RAS
1RGE

3RGPR
3RAS
3LPS
3RGE

3RAPPR
AX NAX
NAX AX
3RAE

3RASR
3RAS 3TE
2LS
3RASP
3RH

1LABASR
1LABAS TE
1LASP

1NLPR
1LHS 1LHS
1LHS 1RHS
4LS
1-3NLPP

1-3NLPPR
5LHS
7LHS
2LS

1LPSR
1LPS
1VLP

1CFR
5LHS
7LHS
5LH
7LH

1RASPR
1RASP

6RWGR
5RH
N6H
6RWCP

6RWGPR
7LHS 5RHS
7LHS 7RHS
7LH 5LH
7LH 5LH

6RWGPPR
7LH
CRK-7LBCH

6NWGR
5RHS 7LBH 7LH
5RHA
6NWCP 6NWCPP

6NWGPR
5RHS 5LHS
7RHS 7LHS
7LBHD 7LBHD
5LH 5LH

6NWGPPR
6NK
12-14RMP
6ATPPA
N5RHA

6ATPR
7RHS
7RAS
5RH
6LS

6ATPPR
7LHS
7LAS
6ATPPP
6ATE

6ATPPPR
12-14RMP
13TP

Wab. FR
1LHS
3RHS
Wab. FP.
4LS

7LDBSGR
7LBCH 7LCH

5TPR
5LHS
5RHS
8RASA
6LS

5TPPR
5LASA
1LBCH
13TPPA
5TPPP

5TPPPR
7LCOS
12-14RMP
12TP
5TE

7LHSR
7LHS 7RHS
7LH
N7LH
7LCOS 7LAS

7RHSR
7RHS 7LHS
7RH
N7RH
7RCOS 7RAS

7LGPR
7LAS
GP
7LGE

7RGPR
7RAS
GP
7RGE

7LAR
AX NAX
NAX AX
7LAE

7RAR
AX NAX
NAX AX
7RAE

Wab. FPR
1LH
1VLP
3RH
3VLP

5LDBSGR
5LBCH 5LCH

5TPR
5LHS
5RHS
8RASA
6LS

5TPPR
5LASA
1LBCH
13TPPA
5TPPP

5TPPPR
7LCOS
12-14RMP
12TP
5TE

5LHSR
5LHS 5RHS
5LH
N5LH
5LAS

5RHSR
5RHS 5LHS
5RH
N5RH
5RCOS 5RAS

5LGPR
5LAS
GP
5LGE

5RGPR
5RAS
GP
5RGE

5LPRSPR
5LH

5LAR
AX NAX
NAX AX
5LAE

5RAR
AX NAX
NAX AX
5RAE

Wab. FPR
1LH
1VLP
3RH
3VLP

7NLPR
7RHS 7RHS
7LHS 7LHS
5-7NLPP

5-7NLPPR
1LHS
3RHS
6LS

7LAGR
7LAS 7TE
6LS
19LMP
7LH 7LH

7RASR
7RAS 7TRA
6LS
12-16RMP
7LH 7RH

5LGPR
5LAS
GP
5LGE

5RGPR
5RAS
GP
5RGE

5LPRSPR
5LH

NBHPR
1 NBHGRE
2

7LADR
7LAH N7LAH
N7LAH 5LRH

5TRDR
7RAH N7RAH
N7RAH 7RAH
5RH N5RH

5RAR
5RAE

5LHSR
5LHS 5RHS
5LH
N5H
5LAS

5RHSR
5RHS 5LHS
5RH
N5RH
5RCOS 5RAS

5LAGR
5LAS 5TE
6LS
12LAS
5LH

5RAGR
5RAS 5TRA
6LS
12-14RMP
5RH 5LH

5NLPR
5RHS 5RHS
5LHS 5AHS
5-7NLPP
5LAR

5-7RHR
7RAH
N7RAH
5RH
N5RH

5-7LHR
7LBH
7LCH6
N7LBHG
N7LCHG
5LAH
5LBH
N5LAH

NBHLPR
1 NBH
2

3LHR
3LHP-N
N3LHP-N

AX NAX / NAX AX
0SLTC

6LSR
6LS
7LH
6LSP
6LE

6LSPR
Wab. FR
5LH
6WR
N6WR

NORTH WALL

4ATPR
1LHS
1LABS
4LS
4ATPP

4ATPPR
1RHS
1RAS
1LCAS
4ATE

4ATPPPR
2LS
1LPS

2ATPR
3RHS
3RAS
2LS
2ATE

2ATPPR
3LHS
3LAS
3LPS
2ATPPP

1BTPPR
1LHV
1BTE

2NWGR
3RH 3RH
1LAH
2NWCP

2NWGPR
1LHS 1LHS
3RHS 3RHS
3RAH 1LH
1LH 1LH

2NWGPPR
4LS
4LS

2RWGR
3COS
3RH 3RH
2RWCP

2RWGPR
1LH
3RHS
1COS
1LH

7LAHR
7LAH
N7LAH

4NWGR
1LH
1LHS
1LAH
4NWCP

4RWGR
4RWCP-N
1LHS
1LAH
1LABAS

7LSR
5RHDGB
N5RHDGB

4NWGPR
1COS
1CF
1LCAS

3NLPR
5RHS
4LS
3RHS
1-3NLPP

3BTPPR
BEB1
3RHV
3BTE

4 W PR
4WC
4NK — 4RK
4WE
4WC — 4RWC (1P)
4NK — 4RK (2P)
4LS (3P)
4NWE — 4RWE(4P)

2 W PR
2NWC — 2RWC
2NK — 2RK
2WE
2NWC — 2RWC (1P)
2NK — 2RK (2P)
2LS (3P)
2NWE — 2RWE (4P)

6 W PR
6NWC — 6RWC 5LBH 5LBHB
6NK — 6RK 7LCHGA
6WE
6NWC — 6RWC (1P)
6NK — 6RK (2P)
6LS (3P)
6NWE — 6RWE(6P)

5-7LYPSR
5LBH 7LCH

5RSR
5LAH 7LCH6

1ITER
1LabASB
1TEP
1LH

1R-1LTER
1LCASB
1RASB
1TEP
1LH

3TER
3RASB
3LASB
2LS
3RH

5TER
5LASB
5RASB
6LH

7TER
7LASB
7RASB
7LH

2RWCPPR
2RWCPP-S

1C-BIO-RECT

INT BIO Rect

W1a

A PDR
A-EB
A-EC

B PDR
B-EB
B-EC

CPDR
C-EB
C-EC

BIO-A-RECT

SMKR
1.
2.
3.
4. } SME

SMZR
1.
2.
3.
4. } BX220

HINGE SIDE OF CABINET

TOLONO, ILL.

SD14C

1A 1K

BELL
MOUNTED IN LEFT HAND END OF CABINET

2

4D 14D 3D 12A 2D 1D 13D 4B 3B 3A 4A 5A 2A 2B 1A 6A 7A 8A 6B 1B 8B 7B 2A 12A 5B 5D 6D 6A 2WE 4B

4

4F 14F 3F 14A 2F 1F 13F 4B 3B 3A 4A 5A 2A 2B 1A 6A 7A 8A 6B 1B 8B 7B 3A 14A 5B 5F 6F 7A 4WE 8B

1PB

13C C A B D 14C

3PB

13E C A B D 14E

1

6C 7C 8C 3B 1C 11A 4B 3A 5A 6A 7A 8A 2A 1A 2B 1B 5B 6B 3C 4C 5C 2B 2C 8B 9C

3

6E 7E 8E 3B 1E 13A 4B 3A 4A 6A 7A 8A 2A 1A 2B 1B 5B 6B 3E 4E 5E 6B 2E 8B 9E

NBH LP
INT BIO

R L G R

NBH

Front View of Lever
Lever in R Position

6

4H 14H 3H 16A 2H 1H 11H 13H 4B 3B 3A 4A 5A 2A 2B 1A 6A 7A 6B 1B 8B 7B 4A 16A 5B 5H 6H 8A 12H 13B 6WE

5PB

13G C A B D 14G

7PB

13J C A B D 14J

5

6G 7G 8G 3B 1G 15A 10G 4B 3A 5A 6A 7A 8A 2A 1A 2B 1B 5B 6B 3G 4G 5G 10B 2G 8B 9G 15G 10B

7

6J 7J 8J 3B 1J 17A 10J 4B 3A 4A 6A 7A 8A 2A 1A 2B 1B 5B 5B 3J 4J 5J 15B 2J 8B 9J 15J 15B 18E 3BTE 7B

16J 7LAE 16B 16G 05LTE 12B

18H 6ATE 14B

18D 2ATE 9B

17E 3RAE 7B

8D 2 NWK 2 RWK 2A 9D

18F 4ATE 5B

18C 1BTE 3B

17C 1LAE 3B

18G 5TE 11B

8H 6 NWK 6 RWK 4A 9H

8F 4 NWK 4 RWK 3A 9F

17J 7RAE 16B 17G 5RAE 11B

55330-20
REAR VIEW

CIRCUIT SELECTONS

1A	N	1B
2A	L	2B
3A	NL	3B
4A	R	4B
5A	N	5B
6A	L	6B
7A	NR	7B
8A	R	8B

GR. 1 3 POSITION FOR SIG. LEVERS 1,3,5 & 7

CIRCUIT SELECTIONS

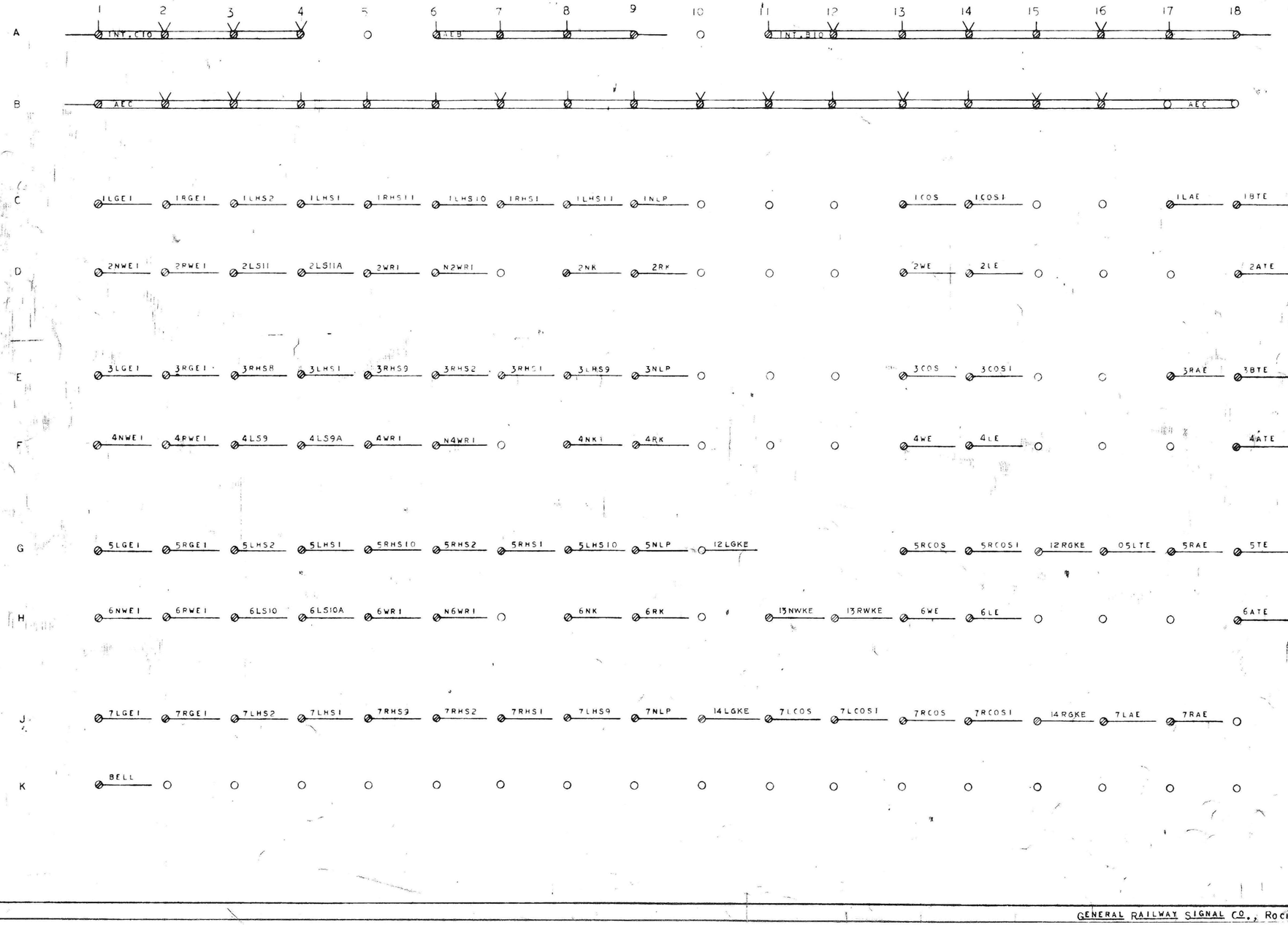
1A	NC	1B
2A	N	2B
3A	R	3B
4A	R	4B
5A	N	5B
6A	N	6B
7A	R	7B
8A	RC	8B

GR. 2 2 POSITION FOR SW. LEVERS 2,4 & 6

4-28-84

BY HSB
BY XXX
D BY RW
D BY WCA

VED
Birbank



BY HSB
ED BY M.F.
KED BY RW
KED BY WCA
OVED
Fairbanks

CABLE DIAGRAM

N

See Sheet 6 For Parkway to Sw. Mach.

I.C.R.R. SHEET STEEL INST. CASE

2WR N2WR
2WP N2WP
2NWC 2RWC
2NWCZ 2RWCZ
4WR N4WR
4WP N4WP
4NWC 4WCI
4WCZA 6WR
N6WR 6WP
N6WP 6NWC
6RWC 6NWCZ
6RWCZ BL12
NL24 BX110
CX110

5-5/16 Pky. - 2 Spares

1-4/9 Pky.

7RN BRGP
7RGP GATP
N6ATP BRHDG
N5RHDG TRAHDG
N7RAHDG

1-12/C #12 UGC

12LGKE 5LPR-SP
7LPR5P 5-7LYPS
5RS 7LG
7LH5 7LH5-A1
7LCHG N7LCHG
GRK 7LAD
5-7LH 5LGP
7LGP 5LA
7LN BEX-6
BEX-1 7LAH
05LTP 7LA
BN 5RA
7RA 5-7RD
5-7RH N5TP
5TP 6NK
12LAS 12LAS
12-14RMP Wab. C10
Wab. B10
13TP 12TP
12-14RGP 14RGP
12RGP 7RHS2A
7RH52A1 5RH5-1A
5RH5-A1 5RH5B1
5RH5-1 5LH5
5LH5 A1 14LGP
12RGKE 13NWKE
13RWKE 14LGKE
14RGKE A-EB
W12AX 7LAH-DG
N7LAH-DG 7LBH-G
N7LBH-G 5LAH-G
N5LAHG W14AX
7RH5-1 7RH5
12LGP 5LBHG
N5LBHG

In 12/C # 12 UGC

Made Up Cable, Furnished and Installed By I.C.

Made Up Cable, Furnished and Installed By Wabash.

CONCRETE INST. HOUSE

Made Up Cable, Furnished and Installed By I.C.

WABASH INST. CASE

30 COND. CABLE (SEE SHEET 14 OF 14)

INT. C10 A-EB
INT. B10 A-EC
1LGEI 1RGEI
1LH52 1LH51
1RH51I 1LH510
1RH51 1LH51I
1NLP 1C05
1C051 1LAE
1BTE 2NWEI
2RWEI 2L511
2L511A 2WRI
N2WRI 2NK
2RK 2WE
2LE 2ATE
3LGEI 3RGEI
3RH58 3LH51
3RH59 3RH52
3RH51 3LH59
3NLP 3C05
5C051 3RAE
3TE 4NWEI
4RWEI 4L59
4L59A 4WRI
N4WRI 4NK
4RK 4WE
4LE 4ATE
5LGEI 5RGEI
5LH52 5LH51
5RH510 5RH52
5RH51 5LH510
5NLP 12LGKE
SMZ SME
5RC05 5RC051
12RGKE 05LTP
5RAE 5TE
6NWEI 6RWEI
6L510 6L510A
6WRI N6WRI
6NK 6RK
15NWKE 15RWKE
6WE 6LE
6ATE 7LGEI
7RGEI 7LH52
7LH51 7RH59
7RH52 7RH51
7LH58 7NLP
14LGKE
7RC051 7RC05
7LAE 14RGKE
LC.XX 7RAE
Wab. XX
3P
3P
N8HGE
N6HLP N8HRE

#14 WIRE

CONTROL MACHINE TERMINAL BOARD

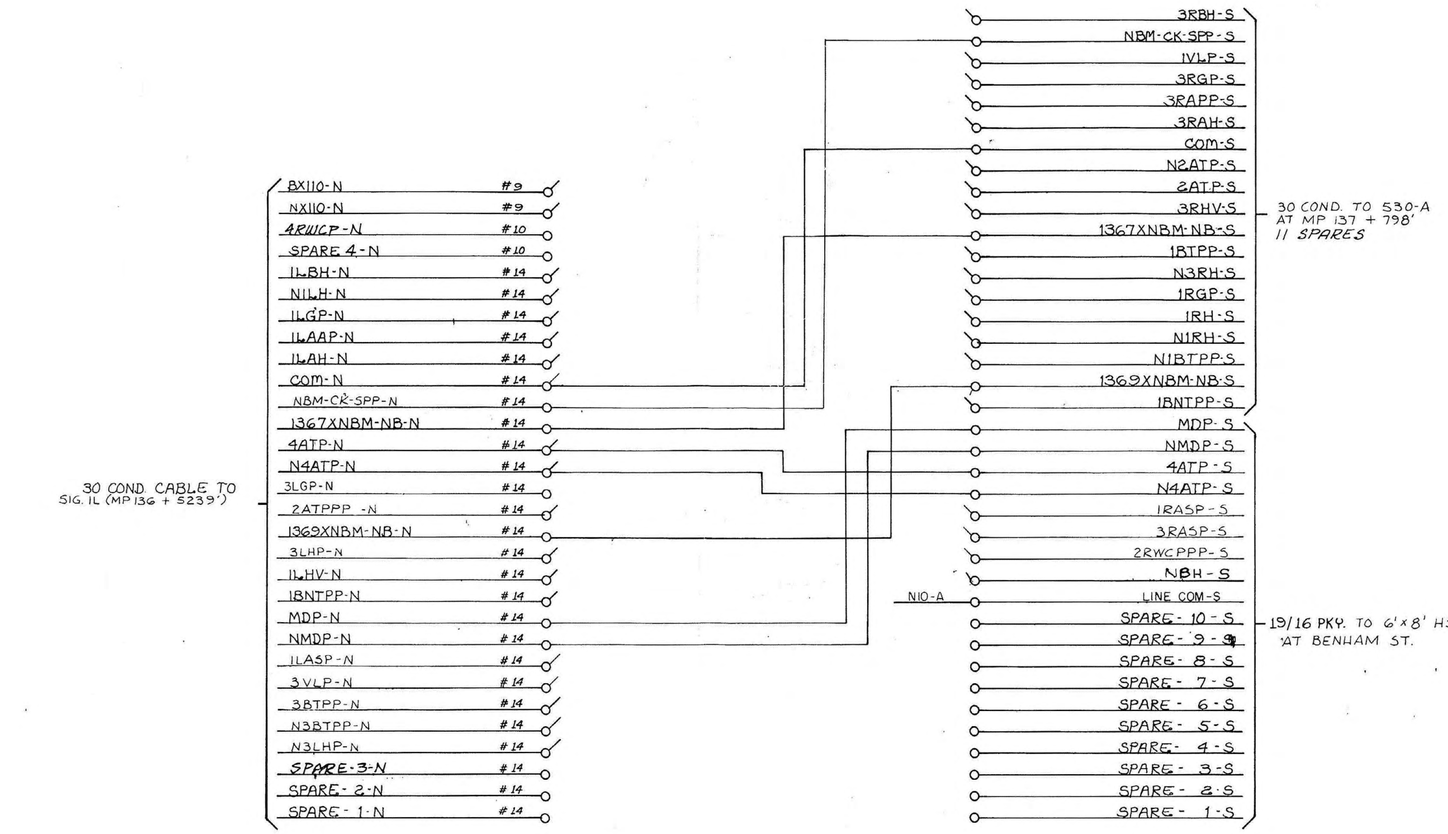
JUNCTION BOX

1A
3A 18A — TO SW. HEATER CONTROL BOX
1B 1C
2C 3C
4C 5C
6C 7C
8C 9C
13C 14C
17C 18C
1D 2D
3D 4D
5D 6D
8D 9D
15D 14D
18D 1E
2E 3E
4E 5E
6E 7E
6F 9E
13E 14E
17E 18E
1F 2F
3F 4F
5F 6F
8F 9F
13F 14F
18F 1G
2G 3G
4G 5G
6G 7G
8G 9G
10G — TO SW. HEATER CONTROL BOX
13G
14G 15G
16G 17G
18G 1H
2H 3H
4H 5H
6H 8H
9H 11H
12H 13H
14H 18H
1J 2J
3J 4J
5J 6J
7J 8J
9J 10J
11J 12J
13J 14J
15J 16J
17J 1K
K6
KT
K5

TOWER

30 COND. CABLE 19/16 PKY. (SEE SHEET 14 OF 14)

4-28-84 10-20-81


BX110-N #9
NX110-N #9
4RWCP-N #10
SPARE 4-N #10
1LBH-N #14
N1LH-N #14
1LGP-N #14
1LAAP-N #14
1LAH-N #14
COM-N #14
NBM-CK-SPP-N #14
1367XNBM-NB-N #14
4ATP-N #14
N4ATP-N #14
30 COND CABLE TO SIG. IL (MP 136 + 5239')
3LGP-N #14
2ATPPP -N #14
1369XNBM-NB-N #14
3LHP-N #14
1LHV-N #14
1BNTPP-N #14
MDP-N #14
NMDP-N #14
1LASP-N #14
3VLP-N #14
3BTPP-N #14
N3BTPP-N #14
N3LHP-N #14
SPARE-3-N #14
SPARE-2-N #14
SPARE-1-N #14
3RBH-S
NBM-CK-SPP-S
1VLP-S
3RGP-S
3RAPP-S
3RAH-S
COM-S
N2ATP-S
2ATP-S
3RHV-S
30 COND. TO 530-A AT MP 137 + 798'
11 SPARES
1367XNBM-NB-S
1BTPP-S
N3RH-S
1RGP-S
1RH-S
N1RH-S
N1BTPP-S
1369XNBM-NB-S
1BNTPP-S
MDP-S
NMDP-S
4ATP-S
N4ATP-S
1RASP-S
3RASP-S
2RWCPPP-S
NBH-S
N10-A
LINE COM-S
SPARE-10-S
SPARE-9-S
SPARE-8-S
SPARE-7-S
SPARE-6-S
SPARE-5-S
SPARE-4-S
SPARE-3-S
SPARE-2-S
SPARE-1-S
19/16 PKY. TO 6'x8' HSE. AT BENHAM ST.