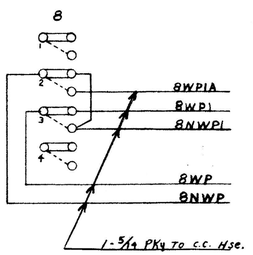
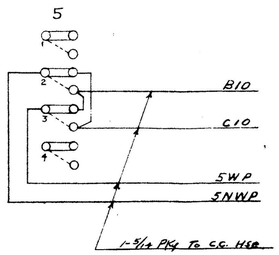
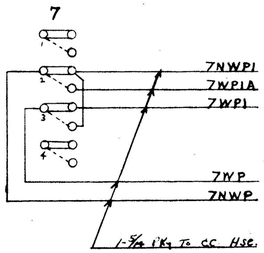


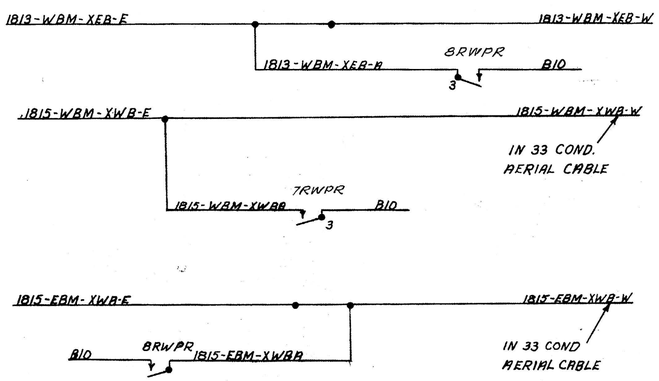
W. A. Plan SD 37-C
000 In XXX Out
Date
Office of Engineer - Signals & Electrical
I. C. G. Railroad Chicago, Illinois
For SR. S.E.

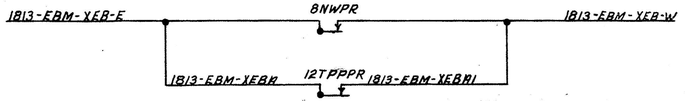
NOTE : CIRCUITS SHOWN ASSUMING REMOVAL OF SMASHBOARD COMPLETED

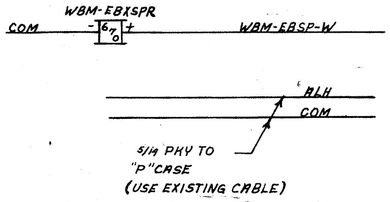


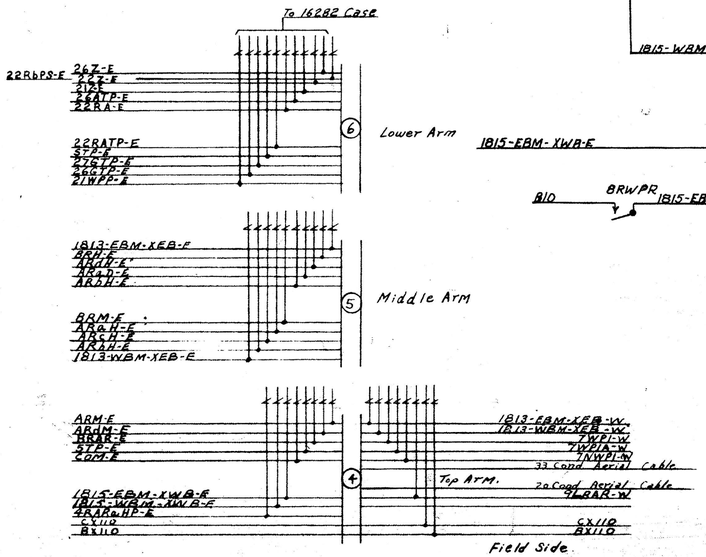


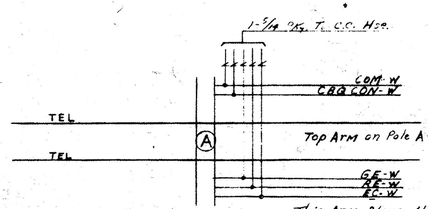


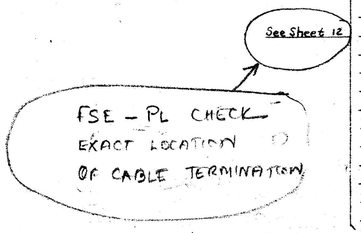


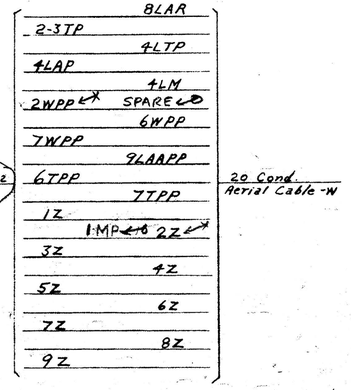


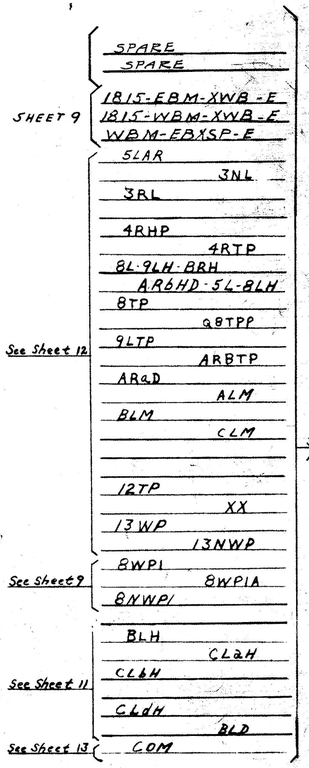






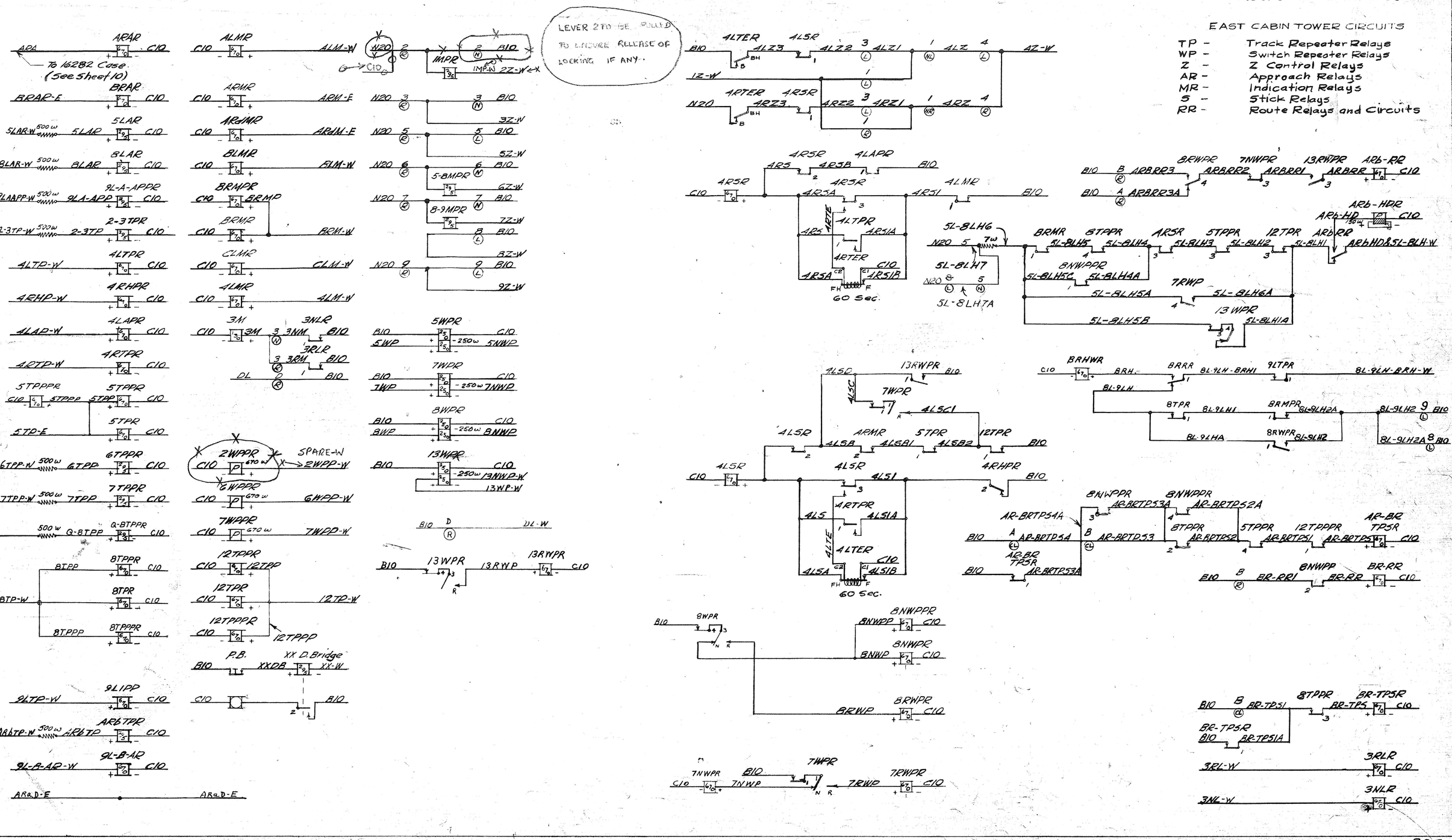






EAST CABIN TOWER CIRCUITS

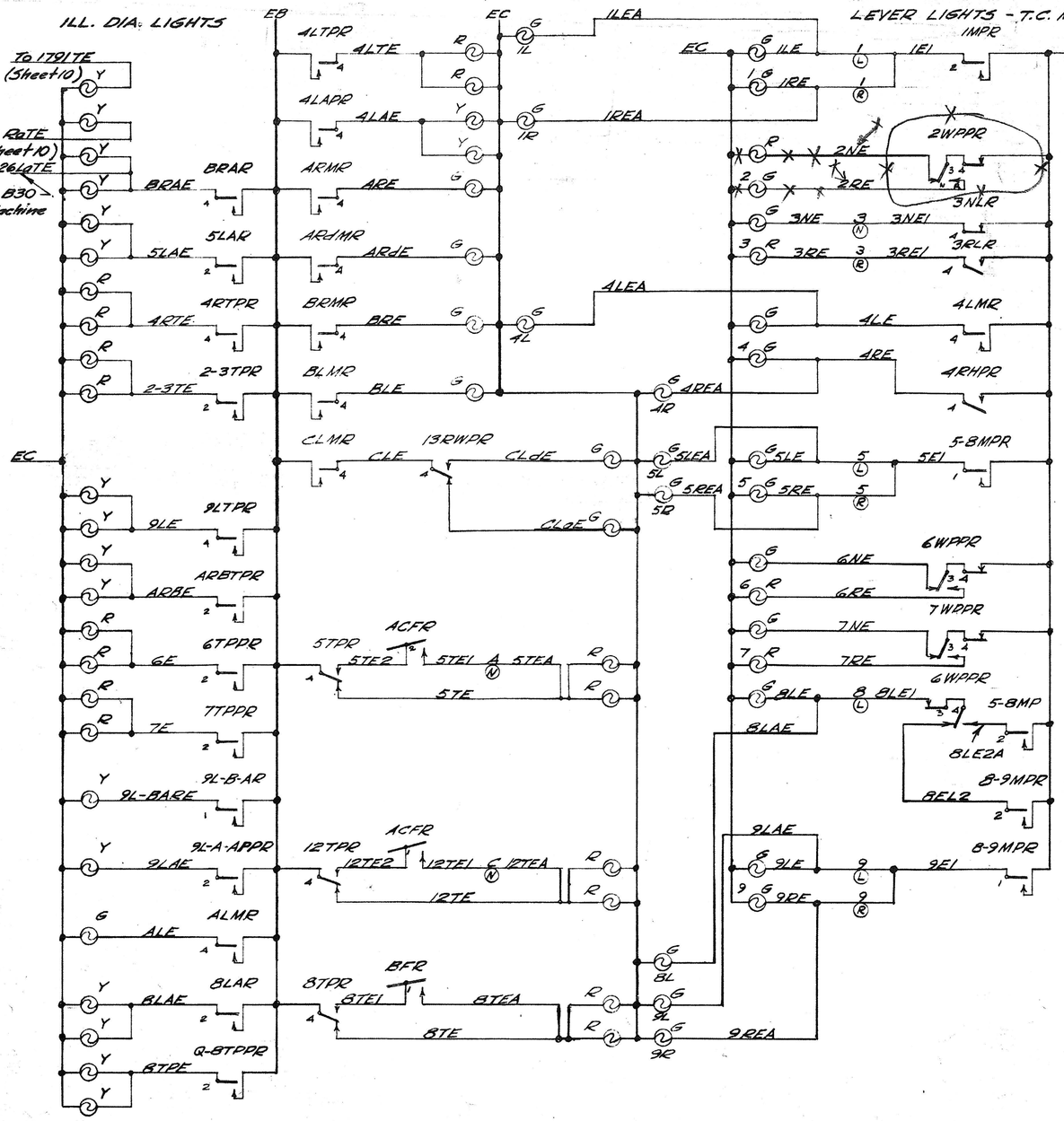
TP - Track Repeater Relays
WP - Switch Repeater Relays
Z - Z Control Relays
AR - Approach Relays
MR - Indication Relays
S - Stick Relays
RR - Route Relays and Circuits



R.O.S.

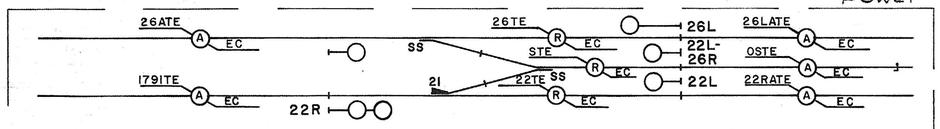
EAST CABIN TOWER CIRCUITS
Diagram Lights
Lever Lights
Annunciator Circuit
Power

ILL. DIA. LIGHTS

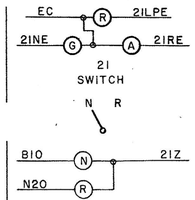


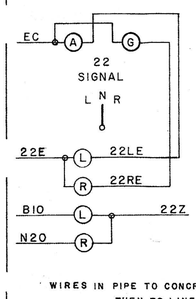
LEVER LIGHTS - T.C. MACHINE

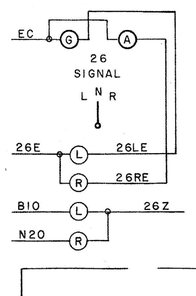
REMOTE CONTROL MACHINE PANEL LAYOUT

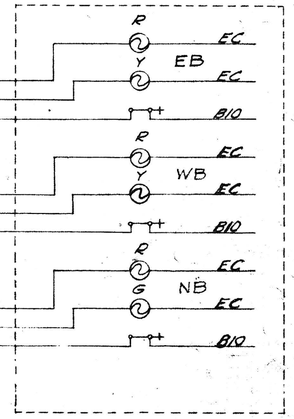


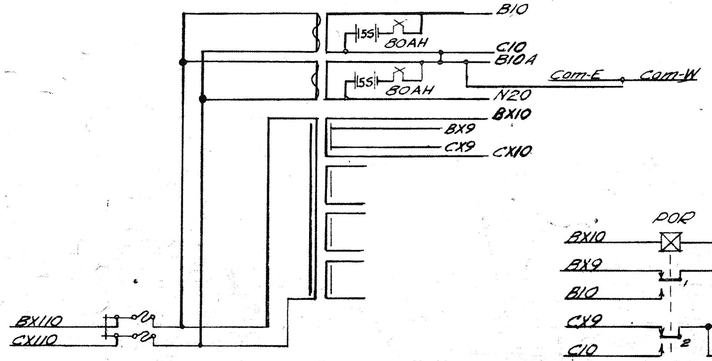
CONTROL PANEL LOCATED ON WEST WALL OVER SOUTH END OF OPERATORS DESK.

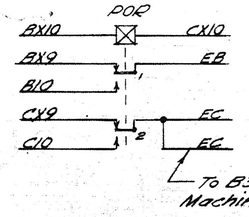


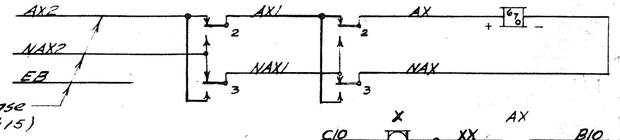


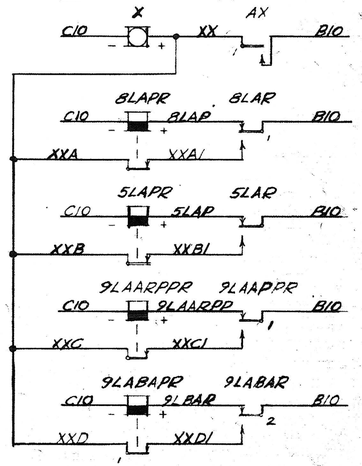












RDS

CONCRETE HOUSE
EAST CABIN TOWER
RELAY DETAILS

NORTH WALL

	9LBAPR	9LBAR	8TPPPR	WBMEBXSPR	BRMPR
	XD	9LBARE	BLH	ARdH	8L-8LH-BRHW
		9LBAP	CLdH	ARbH	
		XD		ARDH	

	ARbHDR	ALMR	ARMR	ARdMR	BRMR
	ARbD (NP)	AS	ARSIC	ARHA	5L-8LH
	AH (N)	ALHIA	4LSB	AS	BHA
		ALE	4RH7A ARE	ARdE	BS BRE

	2WPPR	6WPPR	4LMR	BLMR
	2NE	8E (1-2-P)	4RS	BS
	2RE (3-P)	6NE		BH
		6RE (5-P)	4LE	BLE

	7WPPR	ARTER	CLMR	4RHPR
	7NE	ASP	AH	4R-ARdHP
	7RE (3P)	ARS	CS	4LS
			CLE	4RE

	5WPR	7WPR	ARAR	BRAR
	AH (1P)	4LS (1-P)	ARS	BLD
	ARH	7NWP (2-P)		AX
		7RWP		NAX
		11L (N-P)		BRAE-2CLdTE
		AH		
		ALH (N-P)		

	8WPR	13WPR	IC TO WBR	IC-TO-EBR
4P ONLY ON CLdH CLbH	BH (1-P)	AH		
	AH (2-P)	CLDH		
	8NWP (NP)	ARH		
	8RWP	ARbH		
		5L-8LH		
		13RWP		

	ZRWPR	8RWPR	8NWPPR	
	6L	8L-9LH	5L-8LH	TERMINALS
	1815-WBM-XWB-B	1815-EBM-XWBA	BR-RR	
	5L-8LH	1813-WBM-XWBA1	AR-BRTPS	
		ARb-RR	AR-BRTPS	

EAST WALL

	7NWPR	8NWPR	13RWPR		
	ARdH	9L	4LS		
	ARH	11L			
	ARb-RR	1815-WBM-XWBA	ARb-RR		
		1813-EBM-XEB-E			

	5TPR	5TPPR	8TPR	8TPPR	12TPR
	4LS	AS	8L-9LH	BS	4LS
	6L	ARS	11L	AR-BRTPS	ARaH
	11L	5L-8LH	9L	BR-TPS	5L-8LH
	5TE	AR-BRTPS	8TE	5L-8LH	12TE

	4RTPR	4LTPR	ASR	ASPR	BSR
	4LS	4RS	ASP	11L	BS
			AS	AF	BTER
	4RTE	4LTE	ATER	6L	BSP

	AXR	ARSR	4LSR	4RSR	CSPR
	X	ASP	4LZ	4RZ	6L
		ARS	4LS	4RS	CE
		ARTER	4LS	4RS	9L
		5L-8LH	4LTER	4RTER	11L

	ARb-RR	4LAPR	3NLR	3RLR	5TPPPR
	ARb-HC	4RS	3NM-L	3RM-L	CLbH
	5L-8LH	AX			
		NAX			
		4LAE	3NE-L	3RE-L	

	AR-BRTPSR	BRRR	BRHWR	BRTPSR
	AR-BRTPS	8L-9L-BRHW	BH	BRTPS
	AH			BH

SOUTH WALL

	1MPR	5-8MPR	8-9MPR	2-3TPR	WIO	POR
	1EL	5E-L	9E-L	2-3TE		
		8E	8E			

	12TPPR	9LTPR	7TPPR	6TPR		
	9L	8L-9L-BDHW	7E	6E	RT 21 RECT	RT 21 RECT
	CS					
	6L	9LH				
	11L					

	BSPR	ARbTPR	9LAAPPPR	9LAAPPR	4RTER	4LTER
	9L		XC	9LAARPP	4RSIB (F)	4LTSIB (F)
	BF	ARbE		9LAE	4RSA (FH)	4LSA (FH)
	11L				ARZ3 (BH)	4LZ3 (BH)
					N20 (B)	B10 (B)

	CSR	5LAPR	5LAR	8LAPR	8LAR	ATER	BTER	CTER
	CSP	XB	5LAP	XA	8LAP	ASIB (F)	BSA (F)	CSA (F)
	65-CTER		5LAE		8LAE	ASA (FH)	BSIB (FH)	CSIB (FH)
						ASP2 (BH)	BSIA (BH)	CSPI (BH)
						ASP3 (B)	B10 (B)	B10 (B)

	12TPPPR	XXD BRIDGER	Q-8TPPR	ACER	BFR
	AR-BRTPS			12TE	8TE
	ARbH	D&D BRIDGE	8TPE	5TE	
	CLbH				

TERMINALS

5 CELL BATTERIES

Drn. By G.E.P.

3072' 3428' 3625' 4268' 4486'

CB&QRR 9LBT 9LAT ARBT CB&Q Pole Line

9LBTBI 9LBTN 9LATN 9LATBI T10-TB T10-TN

T10 (BTS-A)

1T 2T 1DC -DC

T10-B10 T10-C10

1DC -DC SURGE SUPP B N C10 B10

BX110 CX110 9LBTBI 9LBTN 9LATBI 9LATN B10 C10 40AH 160AH

CASE 'H'

P1LA		4RM
P1UA		1RM
P2UA		1RH
P3LA		4RH
P4LA		XX
P7LA		9LD
P9LA		4RTP
P2LA		1817XFB
P3UA		3NL
P10LA		1LBH-W
P4UA		3RL
P5UA		Com
P6UA		Q8TPP
P8 1/2 UA		9LBAR
F3 LA · ARBHD-5L-8LH-E		ARB-HD-5L-8LH-W
P6LA		8L-9LH - BRH-W
Spare		Spare
Spare		Spare
		SPARE
		SPARE

20 Cond Aireal Cable To Case "D"

9Z		9Z
8Z		8Z
7Z		7Z
6Z		6Z
5Z		5Z
4Z		4Z
3Z		3Z
2Z	IMP.	2Z
1Z		1Z
8LAR		8LAR
4LM		4LM
2-3TP		2-3TP
4LTP		4LTP
4LAP		4LAP
6TPP		6TPP
7TPP		7TPP
2WPP	SPARE	2WPP
6WPP		6WPP
7WPP		7WPP
9LA-APP		9LA APP

1RM-E 1RH-E 3NL-E 3RL-E COM-E Q8TPP-E 9LTP-E CX110 BX110 9LBAR-E CBQ Track Side Upper Arm Field Side

4RM-E 1817XFB-E ARB-HD-5LH-8LH-E XX-E 8LAR-E BL-9LH-BRH-E 9LH-E 4RH-E 3RTP-E 1L-8H-E CBQ Track Side Lower Arm Field Side

706'

NOTE: PARKWAY CABLE CONNECTIONS FRO A.P.O. UNITS TO TRACK CONSIST OF TWO SINGLE CONDUCTOR #6 SOLID COPPER, 5/64" POLYETHILENE COVER, WITHOUT METAL SHIELD, TWISTED B. WITH SELF CASE AND TRACK.

① SERIES, STYLE USG, UN327988 (Red Marking)

② SHUNT, STYLE USG, UN314265 (Black Marking)

The APO unit should be placed as close a possible to the surge suppressor and the wires running between the surge suppressor and the APO unit should have a few twists.

SL 5R ARBTN ARBTB 4 2 9R 7T 6T 7TN 7TB

5RbGPR 6TR 5RDR 5RaH3 5RaH2 5RaH1 5RaH-W 5Ra C10 N5RAH 5RaPCR B10 5RaLOR 5RaPC 5RaPC-1 5RMI 5RM-W 5LAR-E

9RH 9R C10 Pky To 5R Sig. B10 9RM FB EB EC

5Rb 5RbGP

5RbH-W 5RaLOR 5RaH

POR BX10 CX10 EBX ECX CX10 5RaLOR 5RaRB 5RaLB1 5RaLEB

5RaPCR ARbHD &5L-8LH-E ARbHD &5L-8LH-W Com 9LTP-E 9LATR

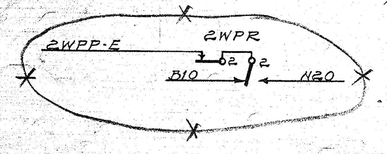
Pky Under CB&Q Tracks To "H" case

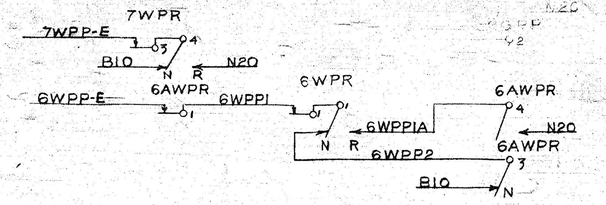
BX10 EBX ECX CX10 Com C10-W 7TB 80AH 7TN ARBTB ARBTN CB&Q Wires CBQ Track Side

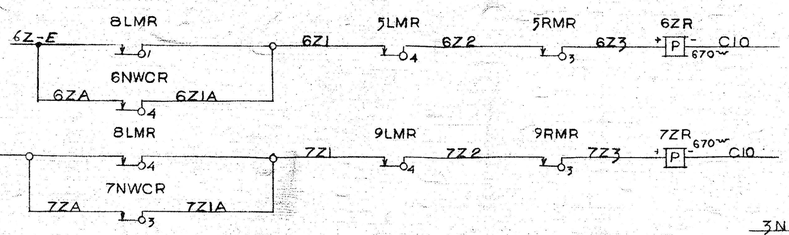
Drn By G.E.P

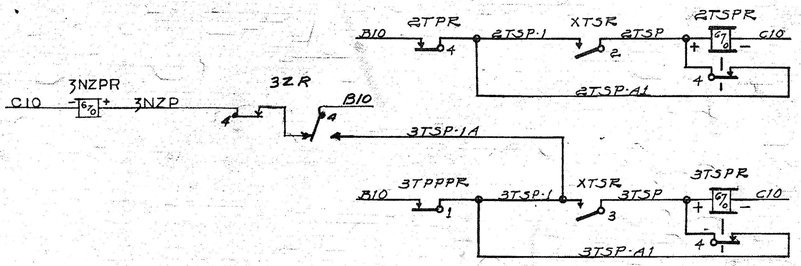
EAST DUBUQUE TOWER CIRCUITS

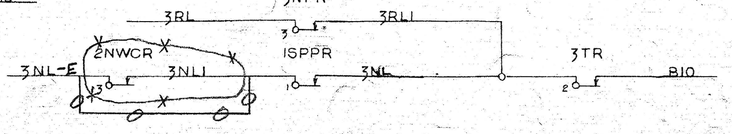
WP-Switch Repeater Relays & Circuits
Z-Z Control Relays & Circuits
Typical Wiring 5B Machine
RR-Route Relays

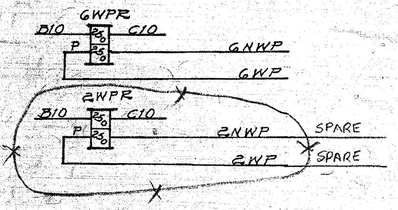


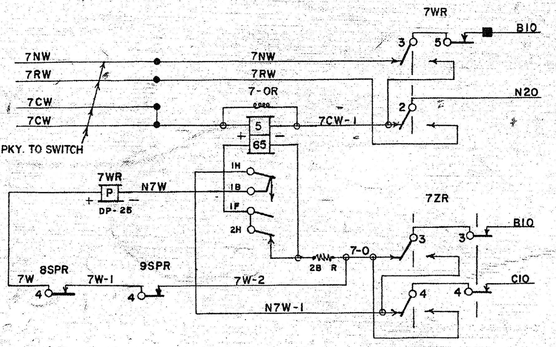


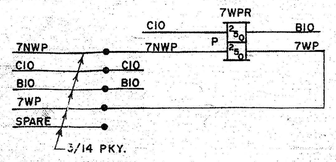


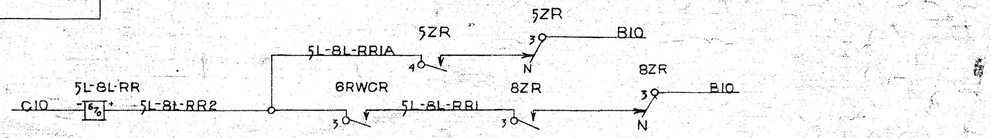


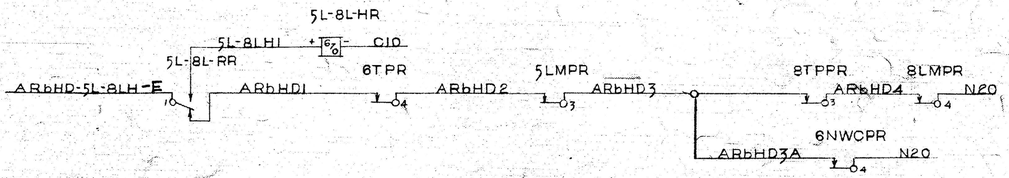


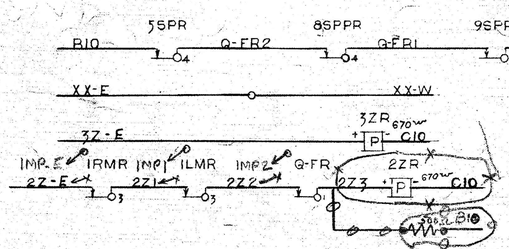


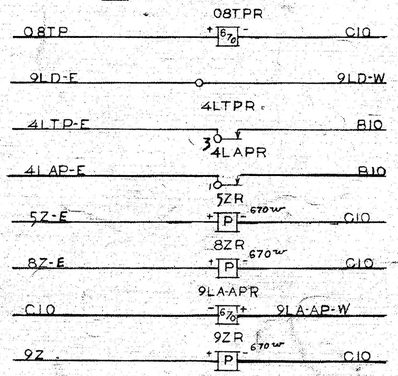


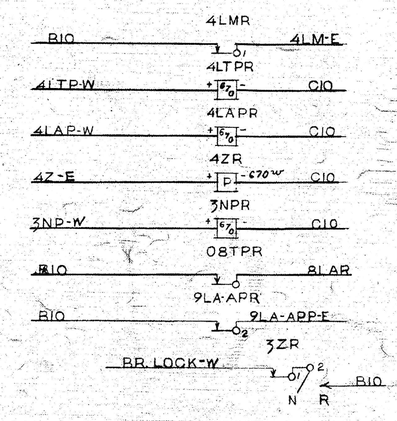


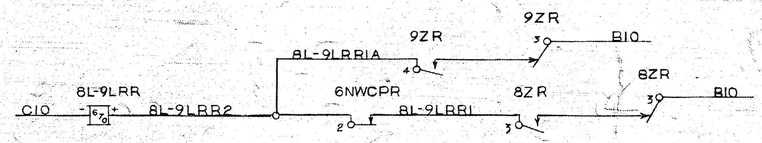


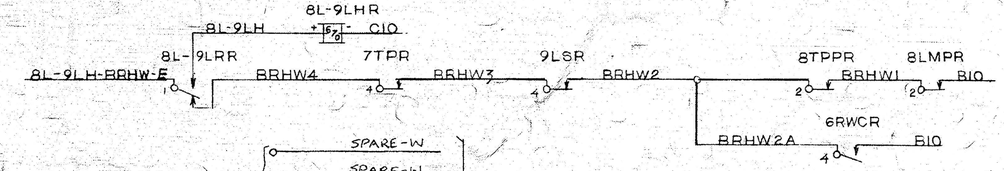


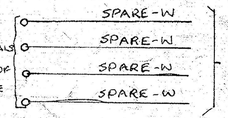










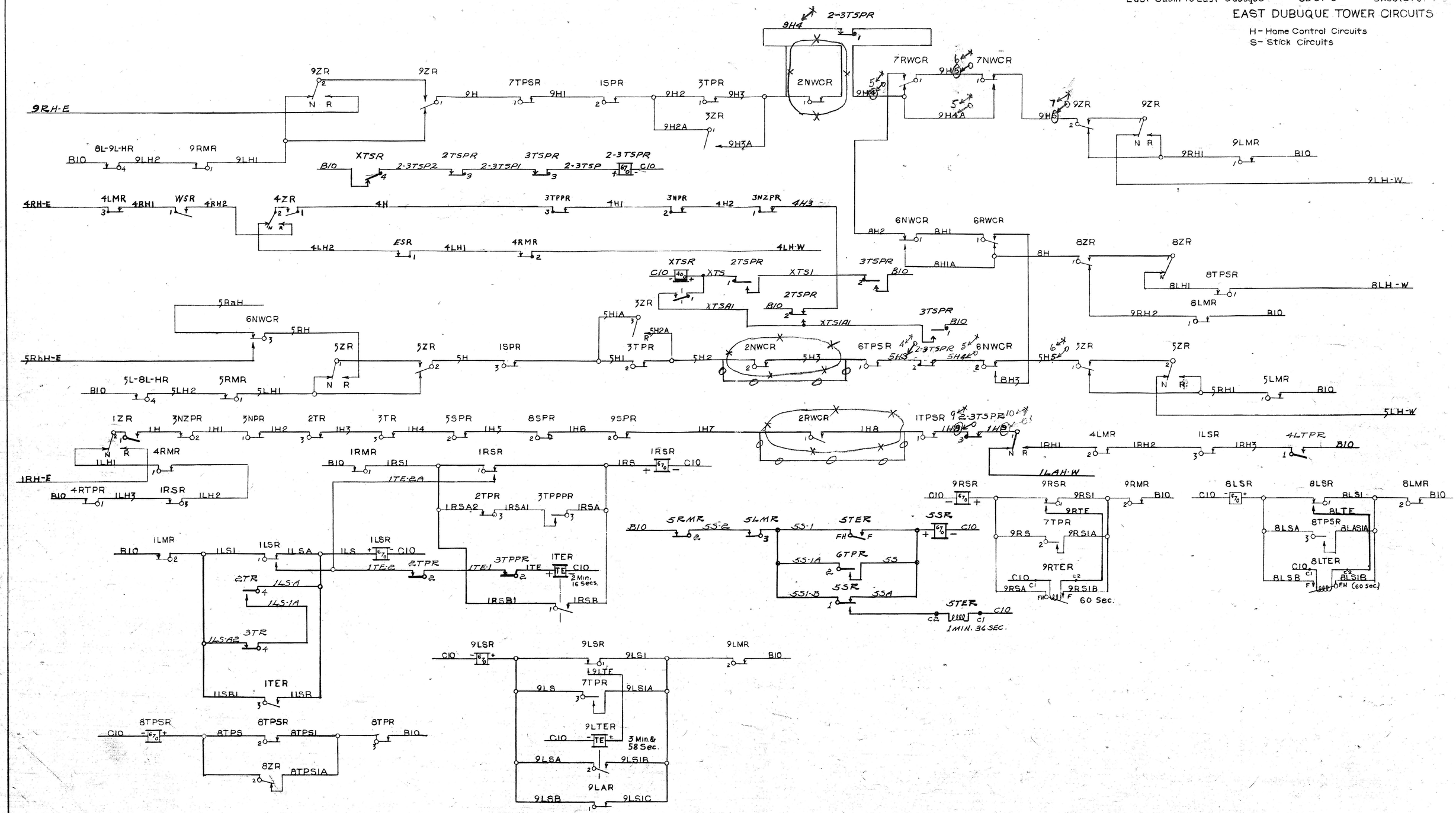


(N AERIAL CABLE TO IL SIGNAL

Drn By G.E.P

EAST DUBUQUE TOWER CIRCUITS

H- Home Control Circuits
S- Stick Circuits

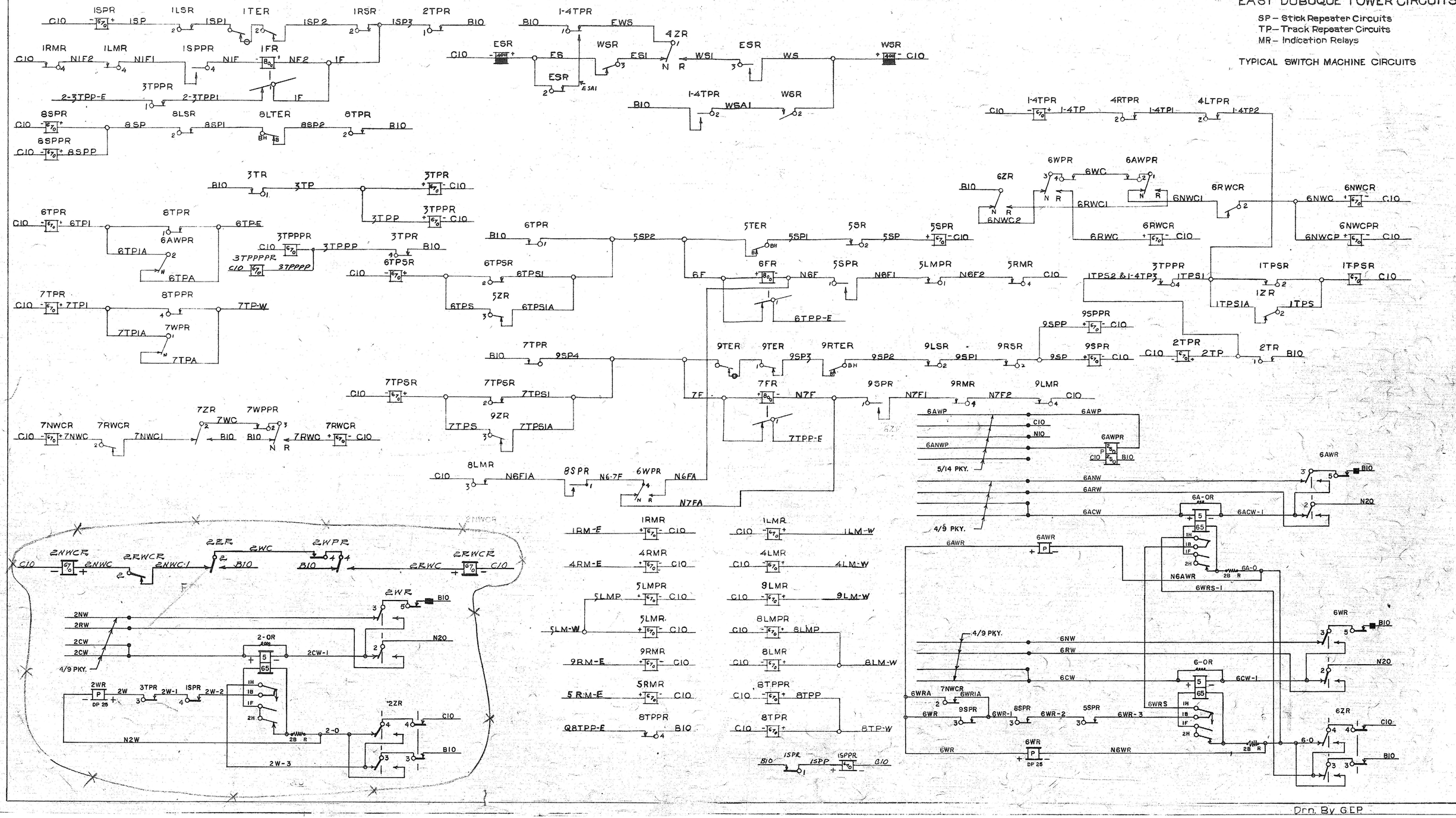


Drn By G.E.P

EAST DUBUQUE TOWER CIRCUITS

SP – Stick Repeater Circuits
TP – Track Repeater Circuits
MR – Indication Relays

TYPICAL SWITCH MACHINE CIRCUITS



Drn. By G.E.P.

EAST DUBUQUE

SOUTH WALL

5L&8LRR	5L&8LHR	8L&9LRR	QFR	4RMR	1RMR	1LMR	4LMR
ARB-HD5L-8LH	—	8L-9LH-BRHW	2Z	1LH	1RS	—	4LM
—	—	—	—	4LH	—	1LS	1RH
—	—	—	—	—	2Z	2Z	4RH
—	5LH	—	—	—	NIF	NIF	—

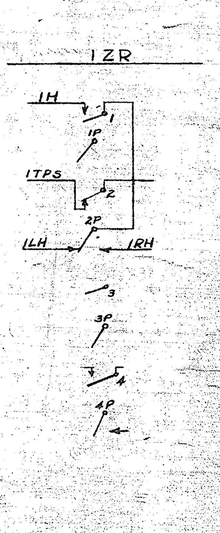
3TPPPDR	3TSPR	2TSPR	9SPPR	8LMPR	4RTPR	1-4TPR	4LTPR	4LAPR
1-3TSP2	XTS1A1	XTS	QFR	6Z	1LH	EWS	1RH	4LAPE
	XTS1	4H3	—	BRHW	1-4TP	WS	1-4TP	—
	2-3TSP	2-3TSP1	—	—	—	—	4LTPE	—
	3-TSPA1	2TSPA1	—	ARBHW	—	—	—	—

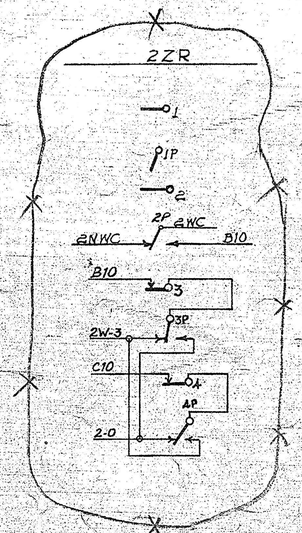
XTSR	2-3TSPR	1RSR	1SPPR	1LSR	1SPR	5SR	5SPR	3TPPPR
XTSD1	9H4	1RSA	3NL	1LSA	1SPP	5S	NGF	3TSP
2TSD	5H4	1SP3	—	1SP	9H	5SP	1H	—
3TSD	1H9	1LH	—	1RH	5H	—	6WR	1RSA
2-3TSP2			NIF	—	2WR	—	QFR	1TPS1

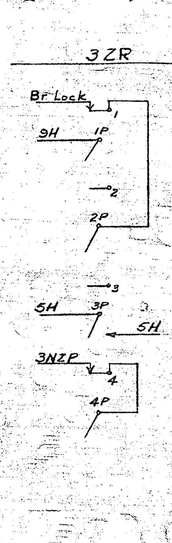
(3 Spaces)

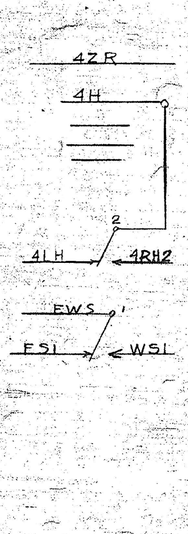
1TER	5TER	2TPR	2TR	3TR	3TPR
1SP	(B) 5SP	1SP	2TP (1TPS-1-4TP)	3TP	9H
1RS	(BH) 5SP	1TE	1817XEB	3NL	5H
1SP	(F) 5S	1RS	1H	1H	2WR
1LSB	(FH) 5S	4H	1LS	1LS	3TPPP

1FR	6FR	7FR
2-3TPP	6TPP	7TPP









WEST WALL

5LMR	5RMR	8LMR'	9LMR	8LSR
5RH	5LH	9RH	9RH	8LS
5S	5S	8LS	9LS	8SP
6Z	6Z	NGF1A	7LZ	—
	NGF	7Z	NF	—

8SPR	9LSR	9RSR	2NWCR	2RWCR
NGF	9LS	9RS	9H	1H
1H	9SP	9SP	5H	2NWC
6WR	—	—	3NL	—
7WR	BRHW	—	—	—

3TPPR	6TPR	6NWCPR	7TPR	5LMPR
2-3TPP1	6TP	—	7TPS	NGF
4LS	5S	8L-9LRR	9RS	—
4H	8LS	—	9LS	ARBHD
	ARBHD	ARBHD	BRHW	—

5ZR	6ZR	7ZR	8ZR	8TPR
5HS	C10 N60R	C10 N70R	8H	—
1P	1P	1P	1P	8SP
5LH 5RH			9RH	8SP
5H			8LH	7TP
2P				
5LH 5RH			8TPS	
6TPS			8TPS	
6TPS 3P B10	B10	B10	2	
5L-8LRR1A	3P	3P	5L-8LRR	
4P	6WRS-1	7-0	3P	
	C10	C10	5L-8LRR	
	4	4	4	
	4P	4P		
	4-0	N7W-1		

RECTIFIER | RECTIFIER | TERMINALS

NORTH WALL

	9RMR	9LAR	08TPR	8L-9LHR	1TPSR	WSR	ESR	8SPPR
	9LH	9LSB	8LAR		1H	4RH	4LH	NGF
	9RS	9LAAPP			1TPS	WS	ES	NGF
	7Z					ES	WS	
	NF			9LH				QFR

	GNWCR	GRWCR	7NWCR	7RWCR	GTPSR	7TPSR	8TPSR
1 –	8H	8H	9H	9H	5H	9H	8LH
2 –	5H	GNWCP	GAWR	7NWC	GTPS	7TPS	8TPS
3 –	5R	5L-8LH	7Z				8LSR
4 –	6Z	BRHW					

	9SPR	3NPR	3NZPR
1 –	NF	1H	4H
2 –	1H	4H	1H
3 –	GWR	3RL	
4 –	7WR		

	8TPPR
1 –	GTP
2 –	BHRW
3 –	ARBHD
4 –	Q8TPP

2-OR11

6-OR11

6A-OR11

7-OR11

8LTER

(B) 8SP2
(BH) 8SP1
(F) 8L5B
(FH) 8L5IC

9RTER

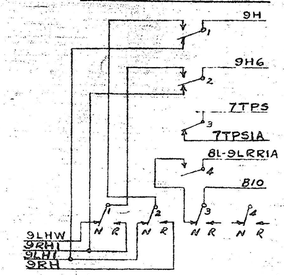
(B) 9SP3
(BH) 9SP2
(F) 9R5IB
(FH) 9R5A

9LTER

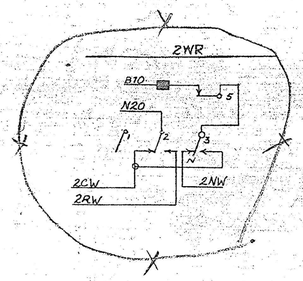
9L5

(Check) 9SP

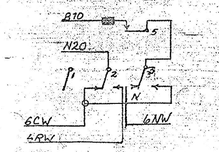
9ZR



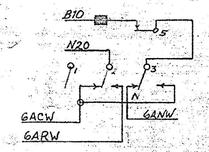
2WR



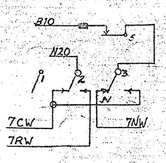
6WR



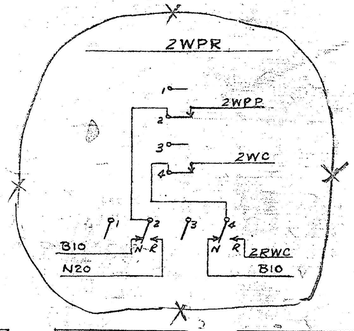
6AWR



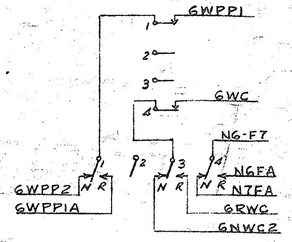
7WR



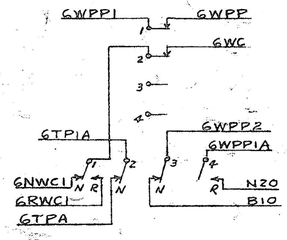
2WPR



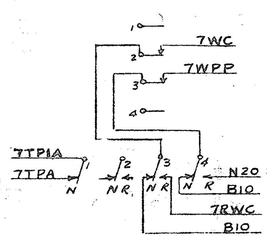
6WPR



6AWPR



7WPR



EM 9-160AH

5288' 0'

I.C.R.R.

DRAWBRIDGE

3T 3T

ON RAIL LOCK LEVER

WEDGE IN IND.

WEDGE IN IND.

ON RAIL LOCK LEVER

WEDGE CONTACT

WEDGE CONTACT

ELECT DEPT WIRING

BX110

CX110

ON OPERATING PANEL BOARD

SLV 13

WER

SLV 13

WWR

3PBS2

SACO LOCK

3PBS1

SW. BOX ON RAIL LOCK LEVER

3PBS3

B.R. MACH. LOCK

B10

P.B. TO BE OPERATED BY BRIDGE TENDER IN SHANTY

3PBSR

3PBS

3PBSR

3PBS-F

C10

B10

3PBS1A1

BRLR

3PBS1A

B.R. MACH. LOCK

C10

3 MIN. TIME RELEASE

BRLR

BRIDGE LOCK

C10

B10

L3

SACO LOCK

L2

SW BOX ON RAIL LOCK LEVER

L1

B10 C-27 R4 C-25 R5 C-26 LR

Latch Down Saco Lock

C10 50

RL

RL1

BR. SHANTY

C10

XXR

B10

X TR C-32 R6 Y

1-2

SEE DL 7324

Terminals on top of Bridge

3 - 5/4 PKy.

Com	Com.-W
4LTPW	4LTP-W
4LMW	4LM-W
4LH	4LH-W
1LBH-E	1LBH-W
4LAPW	4LAP-W
SPARE-E	SPARE-W
SPARE-E	SPARE-W
SPARE-E	SPARE-W
SPARE-E	SPARE-W
1LAH	1LAH
1LM	1LM-W
B.R. Lock-E	
XX-E	
3NP-F	
Tel	
Tel	

7-3/4 Aerials Cables To Relay Hse "D"

27 Cond. Aerial Cable West to IL Sig.

Terminals in Case on North Side of Bridge At Track Level

W10

BX110

CX110

EBX

ECX

B10

X 155 80 A.H.

C10

Com.

POR

BX110 CX110

EB EBX

B10

EC ECX

C10

3PBSR

3NP-E 3NP-1 TR

B10

XXR

XX-E C10

EB BRLR R

R IN BRIDGE SHANTY

G

EC

3PBSR

EB GREEN G IN BRIDGE SHANTY

R

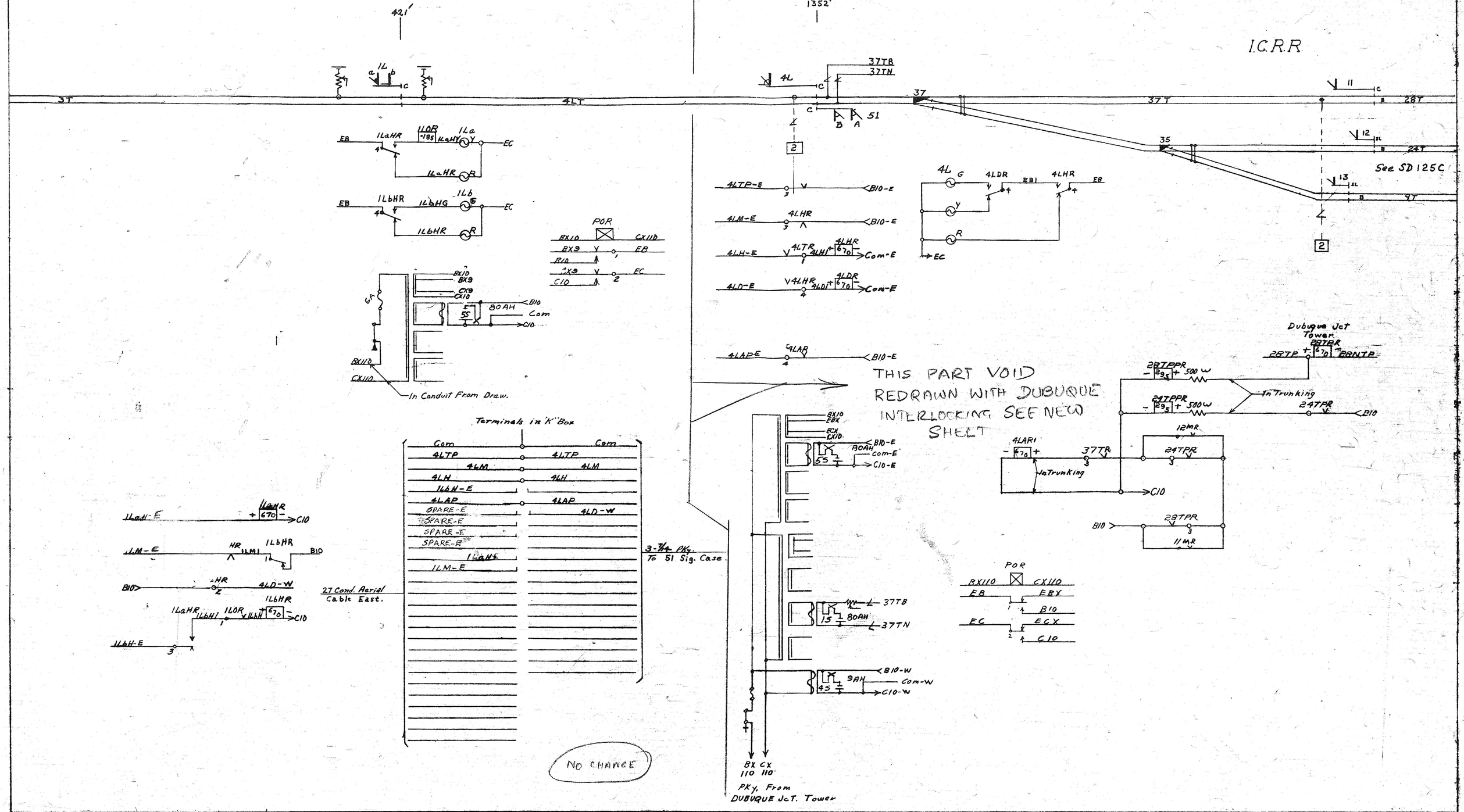
RED EC

NO CHANGE

Rev 4-20-65

Dpn By G.E.B.

I.C.R.R.


42.1'
1352'
3T
4LT
37T
28T
24T
9T
1L
4L
37TB
37TN
51
37
35
11
12
13
2
See SD 125C
1LaHR
1LOR
1La
1LbHR
1Lb
EB
EC
B10
C10
4LTP-E
4LM-E
4LH-E
4LD-E
4LAP-E
4LHR
4LTR
4LDR
4LAR
Com-E
POR
BX10
CX10
BX9
CX9
C10
80AH
Com
In Conduit From Draw.
Terminals in "K" Box
3-7/4 Pky. To 51 Sig. Case
27 Cond. Aerial Cable East.
THIS PART VOID REDRAWN WITH DUBUQUE INTERLOCKING SEE NEW SHEET
NO CHANGE
Pky. From DUBUQUE Jct. Tower
BX CX 110 110
Dubuque Jct Tower
28TPR
28TP
PRNTR
28TPPR
500 W
24TPPR
24TPR
In Trunking
12MR
37TR
11MR
POR
RX110
CX110
EB
EBX
EC
ECX

Power Tap 110V. AC.

192' 243' 480' 527'

7T C.B&Q Tracks 6T

7 6 6A 8T 8L SL 7T OBT 6T

To Minneapolis

"D" Concrete House.

XING - 4657'

4595'

Tunnel

To 2 Derail

1-3/4 PKg

1-3/4 PKg

C10 SPARE
BIO SPARE
7WP SPARE
7NWP SPARE
7NW SPARE
7RW SPARE
7CW SPARE
7CW SPARE

1-3/4 PKg. To 110V. A.C. Power Tap.

CX110
BX110

BIO C10 7WP 7NWP 1-3/4 PKg To Sw. 7
7NW 7RW 7CW 7CW 1-3/4 PKg

BIO C10 6WP 6NWP 1-3/4 PKg To Sw. 6
6NW 6RW 6CW 6CW 1-3/4 PKg

8TB
8TN

"C" Case

1-20 COND Aerial Cable EAST.

1Z 2ZA IMPL
3Z 4Z
5Z 6Z
7Z 8Z
9Z BLAR
4LM 2-3TP
4LTP ALAP
6TPP 7TPP
2WPP SPA 6WPP
7WPP 9LAAPP

1-20 cond. Aerial Cable East.

4RM 1RM
1RH 4RH
XX 9LD
4RTP 1B17XEB
3NL 1RD-1LBN
ARB-HD 8LM-BLW
3RL
COM 9L-9H & BRW
QBTPP 9LBAR

Pkg To Single Case on East End of Bridge.

1LM-W 4LM-W
2RG-W X2GP-W
1LH-W N2GR-W
4LH-W XX-W
4LTP-W 2GP-W
3NP-W 4LAP-W
BR-LACK 1RD-1LBN-W
COM-W
TEL TEL

8LH-E A+ 8L A- C10

8LM 5 6 4 1 3 BIO 2

OBTP OBTR BIO

1-3/4 PKg To Concrete House

BTP BTR BIO

6AWP 6AWP

6ANWP 6ANWP 1-3/4 PKg to 6A SW.
BIO
C10

1-3/4 PKg To C.C. House

6ANW 6ARW 6ACW 6ACW
6ANW 6ARW 6ACW 6ACW 1-3/4 PKg To 6A SW.

EB EC 8L L M 1-3/4 PKg.

TYPICAL WIRING FOR #2 & 8 #6A

CONVERTED 5F SWITCH MACHINE - RIGHT HAND POINT NORMALLY CLOSED

"D" "C" S.L. CONTACT CRANK CONTACT S.L. CONTACT

7NWP CIO BIO 7WP SPARE 5/14 PKY.
7NW 7RW 7CW 7CW 4/9 PKY.

CONVERTED 5F SWITCH MACHINE - LEFT HAND POINT NORMALLY CLOSED

"D" "C" S.L. CONTACT CRANK CONTACT S.L. CONTACT

WP CIO BIO NWP
NW RW CW

POR

BX10 CX10
BX9 EB
BIO EC
CX9
C10

BX10 CX10 Upper Arm

5RAH-E 5RBH-E C10 Lower Arm
BIO-W 5LH-W 9LBY 5LM-W C10 9LBAR-E

5RM-E 5RD-E 5RH-E 6TP-E 9RH-E
9LAAP-W 5AD-W 9LM-W 9LH-W 7TP-W

CBQ Track Side.

BX110 CX110 8LH-E 9LBAR Upper Arm.

BIO 9LD 5LH 5LM C10 Lower Arm

9LAAR 9LM 9LH 3RD 7TP

CBQ Track Side

BX9 CX9 CX10 BX10

BX110 CX110 8TB 8TN 80AH