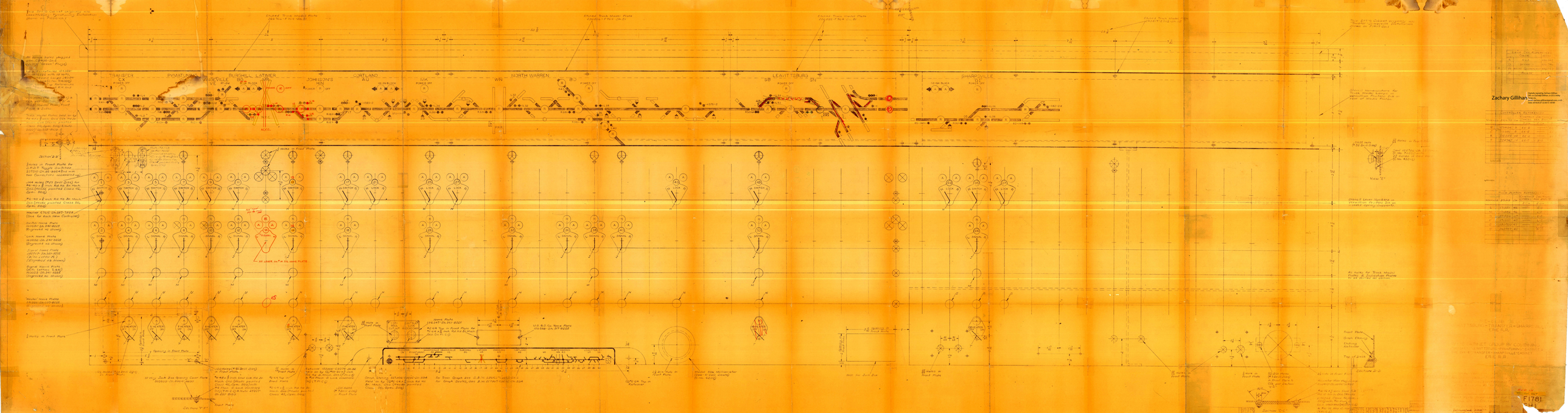
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MEN
CORTLAND
AU
WK
NORTH WARREN
WN
BJ
LEAVITTSBURG
SN
SB
SHARPSVILLE
SV
POWER OFF
POWER ON
LOCK BLOCK
Power Switch
Section Z-Z
Section 2-2
View "E"
Front Plate
Graph Electric
Ordering Number
Top of Switch
Section 1-1
Section 3-3
Section 4-4
Section 5-5
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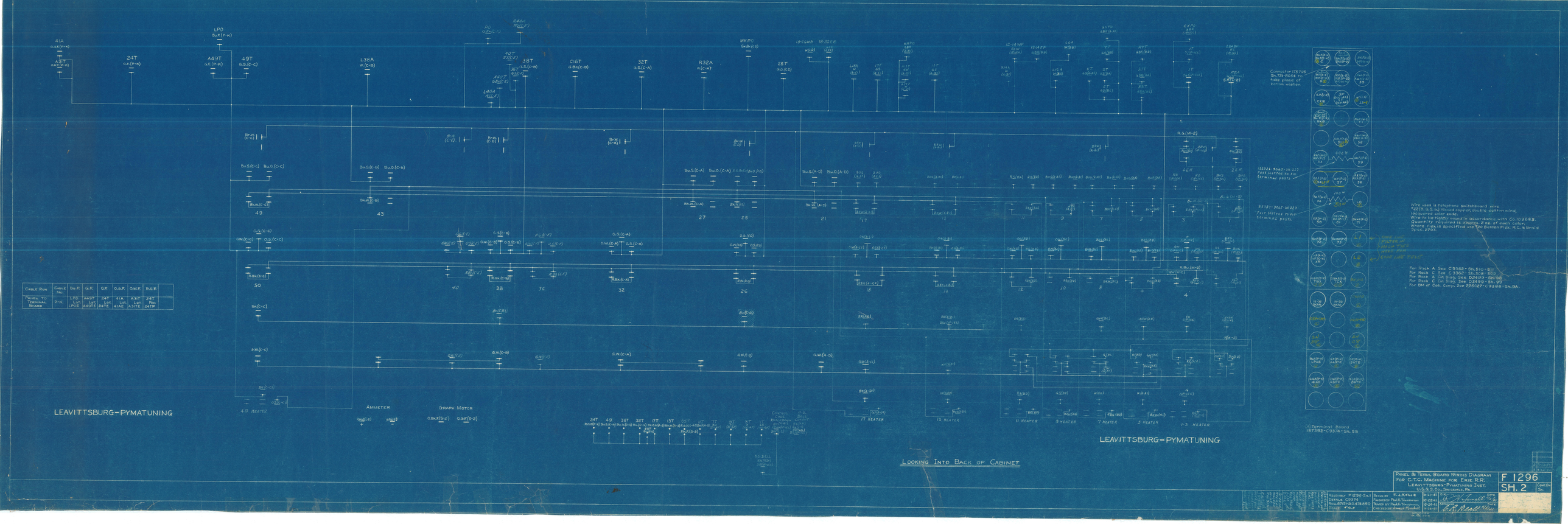
Zachary Gillihan
F1781



CABLE RUN	CABLE No.	Bu.R.	G.R.	O.R.	O.G.R.	O.W.R.	R.G.R.
PANEL TO TERMINAL BOARD	P-K	LPO Lot LPOE	A49T Lot A49TE	24T Lot 24TE	41A Lot 41AE	A3IT Lot A3ITE	24T Pan 24TP

17-18 Panel

13-14 Panel

7-9 Panel

To 27-32 Panel

To KD Button

To Line Coding Unit

Line Coding Unit

Circuit Coupler

Term. Bd.

XR Control

To C2 of 18-26 WBK Rack C

To A3 & C5 of 346 D Rack C

To A1 of 18-26 WBK Rack C

To C3 of 18-26 WBK Rack C

To C4 of 18-26 WBK Rack C

To B3 of 18-26 BK Rack C

To C2 of 18-26 BK Rack C

To E2 or 23G

To B2 or 23G

OS Bell

OS Bell Cutout Button

LEAVITTSBURG - TRANSFER - SHARPSVILLE
FORMERLY
LEAVITTSBURG - PYMATUNING
ERIE R.R.

Circuit Diagram for Rack A Right Hand Upper front.

Office Storage Rack

For Panel Layout see F1296-Sh.1.
For Panel Wiring see F1296-Sh.2.
For B.M. of Cab. Comp. see 226027-C9388-Sh.9A
For B.M. & Wirings of Rack 'A' see 226139-C9362-Sh. 510-511.

For Wiring See 'B' Circuit D2499-Sh.37B

Circuit Diagram for Time Code Scheme, Centralized Traffic Control System, 35 Station Basis.
U.S.S. & S. Co. Sharpsville, Pa.

D 2499
SH. 98
Cont. No. 99

Assembly	C9388-Sh.9A
Details	C8374 & D2452
Reg.	631-91 (Gr. 474850)
Scale	
Begun by	F.J. Kehoe 10-21-41
Finished by	J.N. Marshall 10-21-41
Traced by	Lee Pomeroy & 10-24-41
Checked by	James J. Marshall 10-24-41
O.K.	Date
Approved	C.A. Hewell Chief Engr.

14 PANEL | 21 PANEL | 17-18 PANEL | 13-14 15-16 PANEL | 7-9 PANEL

To 27-32 PANEL

To KD BUTTON

LINE CODING UNIT

CIRCUIT COUPLER

TRANS BD

To LINE CODING UNIT

CS BELL

OS BELL CUTOUT BUTTON.

CIRCUIT COUPLER

XR CONTROL

To C2 of 18-26 WBK Rack C
To A3 & C5 of 346 D Rack C
To A1 of 18-26 WBK Rack C
To C3 of 18-26 WBK Rack C
To C4 of 18-26 WBK Rack C
To A3 of 18-26 BK Rack C
To C2 of 18-26 BK Rack C

LEAVITTSBURG - TRANSFER - SHARPSVILLE
FORMERLY
LEAVITTSBURG - PYMATUNING
ERIE R.R.

Circuit Diagram for Rack **A** Right Hand Upper front.

OFFICE STORAGE RACK

For Panel Layout see F1296-Sh.1.
For Panel Wiring see F1296-Sh.2.
For B.M. of Cab. Comp. see 226027-C9388-Sh.9A
For B.M. & Wirings of Rack 'A' see 226139-C9362-Sh. 510-511.

For Wiring See 'B' Circuit D2499-Sh.1378

YELLOW-IN RED-OUT
Marked MFR. Date 10-13-6?
Checked ..... Date .....
UNION SWITCH & SIGNAL Div. of Westi. Air Brake Co.

5	10-16-52
4	7-14-52
3	4-1-52
2	8-7-44
1	4-22-44

CIRCUIT DIAGRAM FOR TIME CODE SCHEME CENTRALIZED TRAFFIC CONTROL SYSTEM 35 STATION BASIS.
U.S.&S. Co. SWISSVALE, PA.

D 2499
SH.98 CONT. ON 99

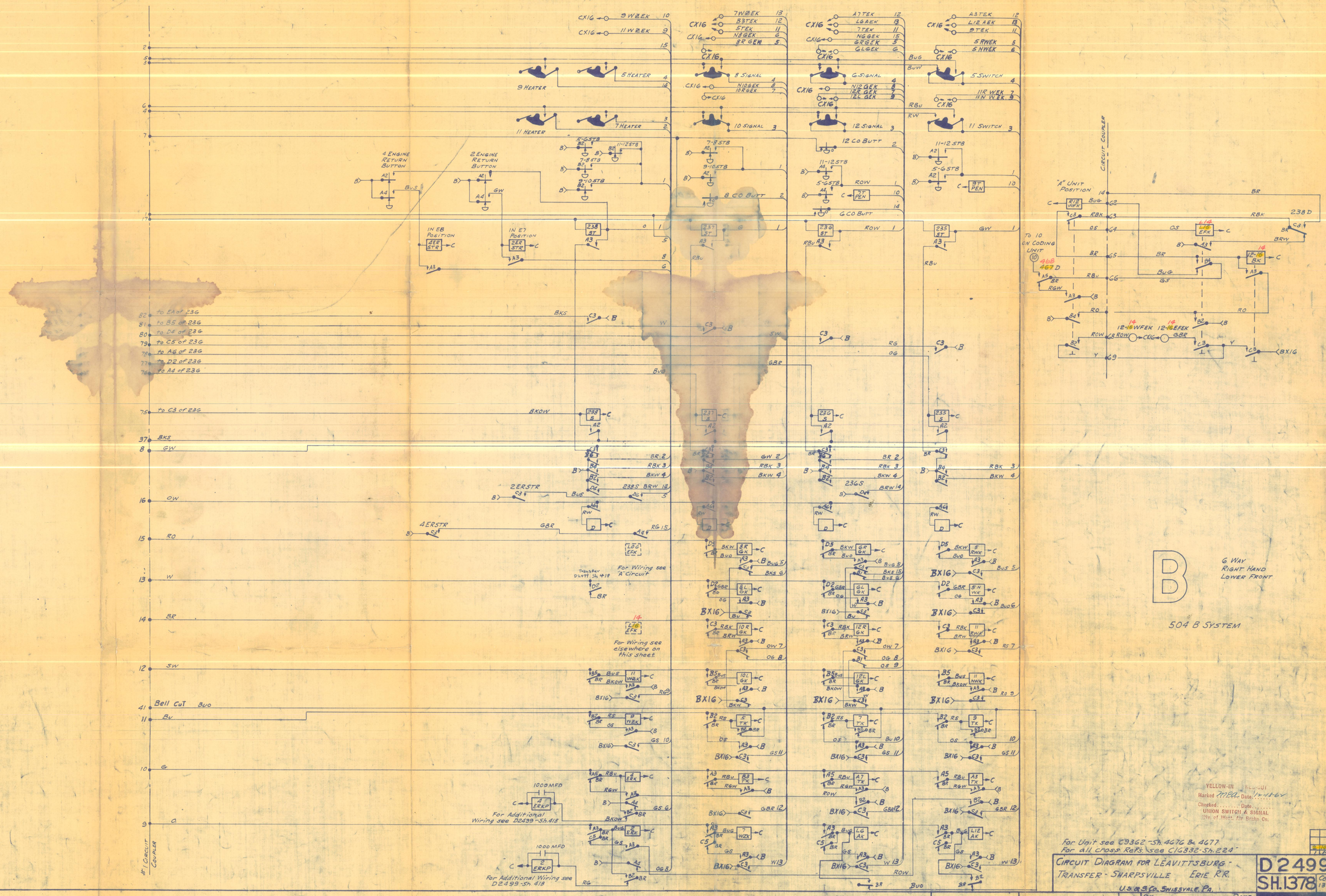
ASSEMBLY C9388-Sh.9A
DETAILS C9374 & D2452
REQ. 67151 (G. 474850)
SCALE

BEGUN BY F.J. Kehoe 10-21-41
FINISHED BY J.V. Marshall 10-21-41
TRACED BY Lee Prosser Jr. 10/23/41
CHECKED BY James J. Marshall 10-24-41

O.K. DATE 11/24/41
APPROVED DATE 11/24/41

D.A.F. 11-8-41
C.A.E. 11-4-41

4-22-44 Revised per marked print. Req. 74018 E.W.H. JWM
4-1-52 Revised per marked print. Req. 75006 E.W.H. JWM
8-7-44 Revised per marked print. Req. 67151 H.W. 4558 Revised per marked print. Req. 9780T D.B.H. JWM
10-16-52 Revised per marked print. Req. 9963M D.B.H. JWM
Panel 16/16 was 13-14 due to add'l K.D. but. was 15/16.



YELLOW-IN
Marked ...Date...
Checked ...Date...
UNION SWITCH & SIGNAL
Div. of Westinghouse Air Brake Co.

For Unit see C9362-Sh. 467G & 467J
For all cross Refs. see C16832-Sh. 224

CIRCUIT DIAGRAM FOR LEAVITTSBURG - TRANSFER - SHARPSVILLE ERIE R.R.

U.S.&S.Co. SWISSVALE, Pa.

D2499
SH. 1378
CONT'D ON 1379

ASSEMBLY C16832-Sh. 224	BEGUN BY	DATE	O.K.
PANEL PLATE LAYOUT E1781-Sh. 1	FINISHED BY W.R. DEMAY	3/11/52	
Req. 97224: 60.12.17.00	TRACED BY D.M. Johnson	3/31/52	APPD. DATE
SCALE	CHECKED BY D.C. Hammett	3/31/52	

OK OT'S 5-2-52

1-15-53 L	Revised per marked Print. Req. 93630
10-15-62	Revised to show new relay
	Wire added. SHEET ADDED.

B

6 Way Right Hand Lower Front

504 B System

"A" Unit Position

To 10 on Coding Unit (10)

4GB D

238 D

Circuit Coupler

#1 Circuit Coupler

#2 Circuit Coupler

to E4 of 236

to B5 of 236

to D4 of 236

to C5 of 236

to A6 of 236

to D2 of 236

to A4 of 236

to C3 of 236

BKS

GW

OW

RO

W

BR

SW

Bell Cut Buo

BU

G

O

1000 MFD

For Additional Wiring see D2499-Sh. 418

For Wiring see "A" Circuit

For Wiring see elsewhere on this sheet

For Unit see C9362-Sh. 4676 & 4677

For all cross Refs see C16832-Sh. 224

Circuit Diagram for Leavittsburg - Transfer - Sharpsville Erie R.R.

U.S. & S. Co. Swissvale, Pa.

D 2499

SH. 1378

Cont'd on 1379

Assembly C16832-Sh. 224	Begun by		Date
Front Plate Layout E2178I-Sh. 1	Finished by W.R. DeMay	3-11-52	
Reg. 97224-GO.121700	Traced by Jos. Johnson	3-31-52	Approved: Date 4-2-52
Scale	Checked by	3-31-52	

OK BTS 5-2-52

1-15-53 L Revd. per print Reg. 93630 M.D. Jones

60 WATT 110V LAMP

O.G.F. — Br.W.F.

Cabinet Terminal Board — Sharpsville Cabinet

Cabinet Terminal Board — Leavittsburg Cabinet Coding Line — Leavittsburg Pymatuming Cabinet — Circuit Coupler

Unit Plug Conn.

CIRCUITS SHOWN ELSEWHERE ON THIS SHEET

R.G.W. — R.BuW. — BkOW — BkW

05 HEATER — 05 SWZEK — 05 RWEK — 05 SWWEK — 05 SW — 07 NWLEK — 07 RWK — 07 Lock — 06 Signal — 06 Call on — 03 RWLK — 03 NWLK — 03 Lock — 07 St. Butt. — 05-06 St. Butt. — 03 St. Butt. — 05 MC

To AI of 237S — To AI of 235S — To AI of 238S — To AI of 236S — To AI of 234S — To C2 of 234ST — To C2 of 237ST — To C2 of 235ST — To C2 of 236ST — To C2 of 238ST

To KD BUTTON — 1-2 St. Butt. — 3-4 St. Butt. — 2ERKP — 4ERKP — 2ERK — 4ERK — 2CO — 3.5W — 1.5W — MC — 4CO — 1-3 HEATER — 2 Sig — 4 Sig — 3 Sig — 1T PEN

1RWEK — 1NWEK — 3RWEK — 3NWEK — 05 BELL CUTOUT — 3TEK — CXPOEK — SW To 05 Bell — LEAVITTSBURG PYMATUMING CABINET R2AEK

Circuit Coupler

LOG EFK — DIO POSITION "B" UNIT — RB WFK — GI-GH BLOCK — GIGHWFEK — GIGHWFEK

Circuit Coupler

A — RIGHT HAND UPPER FRONT 6-WAY UNIT

For Panel Layout see F1407-Sh.1
For Panel Wiring see F1407- Sh. 2
For B.M. of Cab. Comp. see 243816-C9388-Sh.11C
For B.M. & Wirings of Rack A see 244279-C9362-Sh.1314-1315
For Int. Cable See C9362-Sh.1316

LEAVITTSBURG-TRANSFER-SHARPSVILLE
FORMERLY TRANSFER, PA.
ERIE R.R.

POSITION 10 9 8 7 6 5 4 3 2 1

ROW D C B A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

CIRCUIT DIAGRAM FOR UNIT A
LEAVITTSBURG-TRANSFER-SHARPSVILLE
FORMERLY TRANSFER, PA. ERIE R.R.
UNION SWITCH & SIGNAL DIV. OF WESTINGHOUSE AIR BRAKE CO., SWISSVALE, PA.

D2499
SH. 418
CONT. ON 419

			DATE	O.K.
ASSEMBLY F1407-Sh. 2	BEGUN BY D.G. Emmel		3-27-44	
DETAILS C9374 & D2452	FINISHED BY J.J. Marshall		3-27-44	
REQ. 73821 G.O. 514030	TRACED BY G.M. Cornell		3-30-44	APPROVED
SCALE	CHECKED BY J.J. Marshall		3-30-44	

Original Approval Date:-4-6-44

4-10-32 Added & Revised as marked (Sum. Rel. 8-3-32) E.M.E. Mfrg.