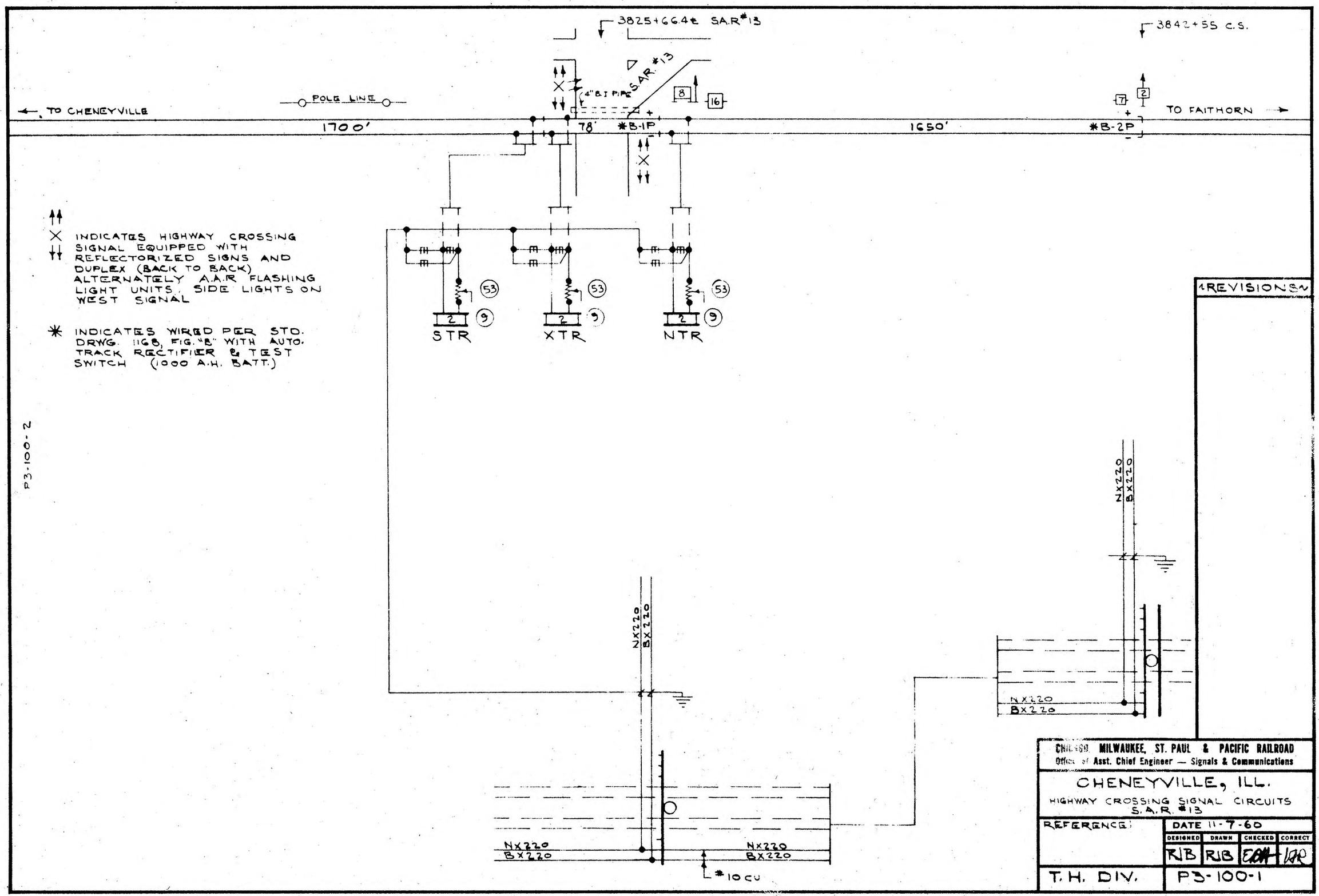


P3-100-2

REVISIONS

CHICAGO MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.

HIGHWAY CROSSING SIGNAL CIRCUITS
S.A.R. #13

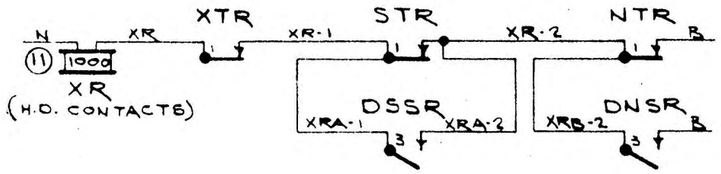
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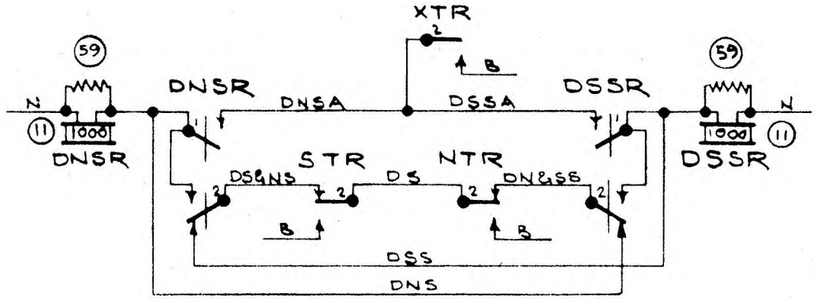
DATE 11-7-60

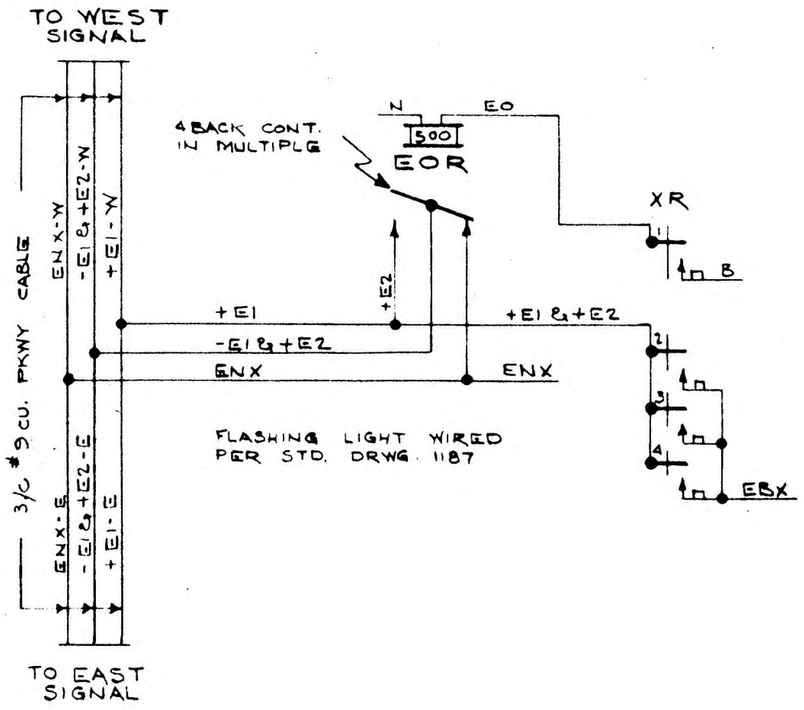
DESIGNED	DRAWN	CHECKED	CORRECT
RJB	RJB	EGH	LSR

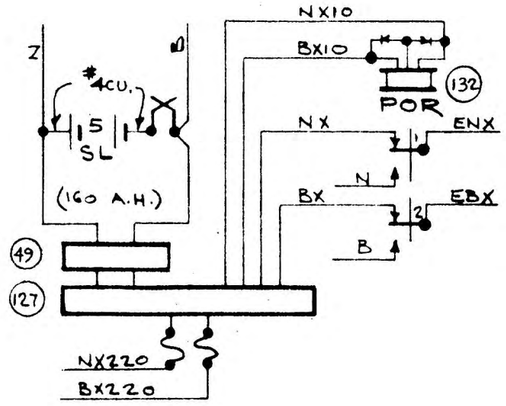
T.H. DIV.

P3-100-1









REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.

HIGHWAY CROSSING SIGNAL CIRCUITS
S.A.R. #13

REFERENCE

DATE 11-7-60

DESIGNED	DRAWN	CHECKED	CORRECT
RJB	RJB	EGH	RAR

T.H. DIV.

P3-100-1A

2829'

POLE LINE

← TO CHENEYVILLE

TOWNSHIP ROAD

METER & SERVICE BOX ON STUB POLE

4D

4

15 7

TO FAITHORN →

*B-2P

1700'

BR. 101.65

* INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" WITH AUTO. TRACK RECTIFIER & TEST SWITCH (1000 A.H. BATT.)

TO SIGNAL

#9CU.

4DDG

5RDDG

CENTRAL ILLINOIS POWER Co. 220V.A.C. POWER SOURCE

METER & SERVICE BOX

10V-25W

C

1

2

B

C

1000 20

4DDR

ON SIG. 4D

45° B

W 2

J

D

*9CU.

45L 80AH

43

NX220

BX220

3/C *9CU. PKWY CABLE

NX220

BX220

4RDD

4RYGP

C

NX220

BX220

#10CU.

C

4DYGP

4DD

NX220

BX220

#10CU.

ONE POLE SPAN

P3-101-1

P3-100-1

REVISIONS:N

1 E.W.Sp. GEK-OK-JHR

2 11-7-60 RJB-WJA CHH

3 2-4-66 WJA-OK JHM

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

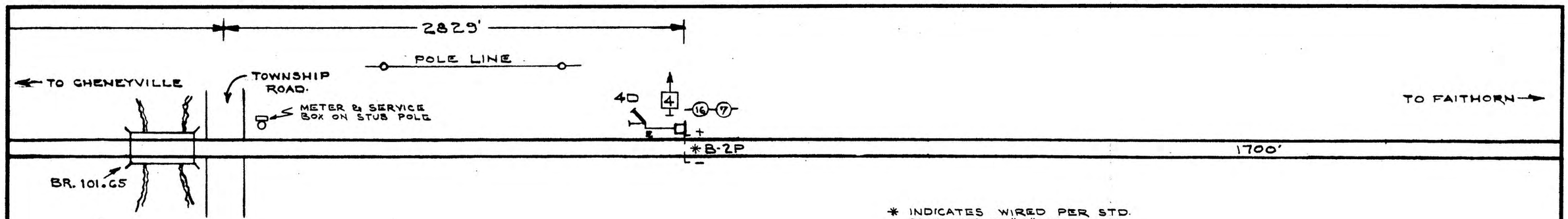
REFERENCE:N

DATE 10-9-57

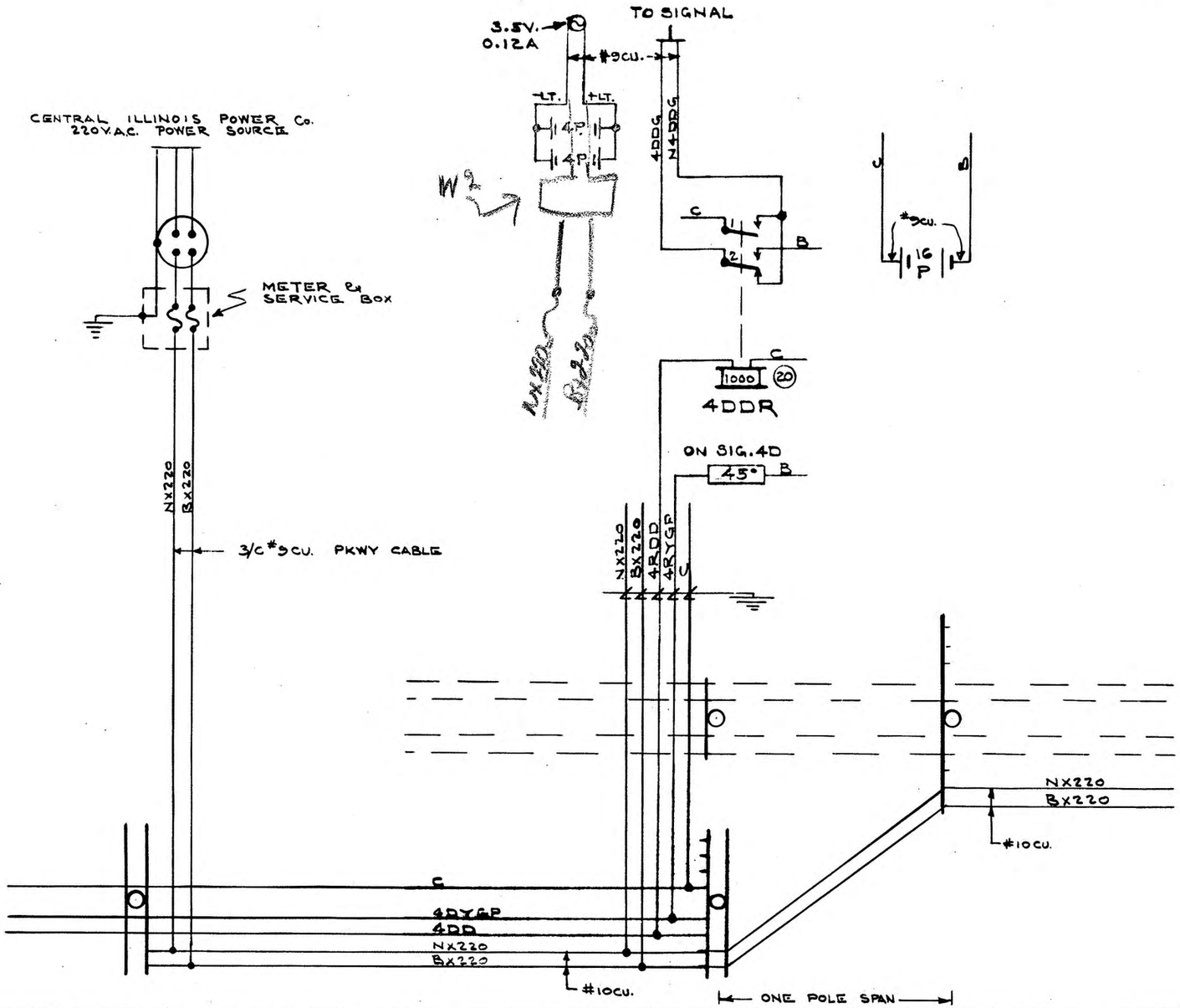
DESIGNED	DRAWN	CHECKED	CORRECT
E.O.	E.O.	WJA	

T.H. DIV.

P3-100-2



* INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" WITH AUTO. TRACK RECTIFIER & TEST SWITCH (1000 A.H. BATT.)



P3-101-1

P3-100-1

REVISIONS:N

1 C.T. 59 GEN. OK. JHSK

2 11-7-60 CRJ & W.K. CRH

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

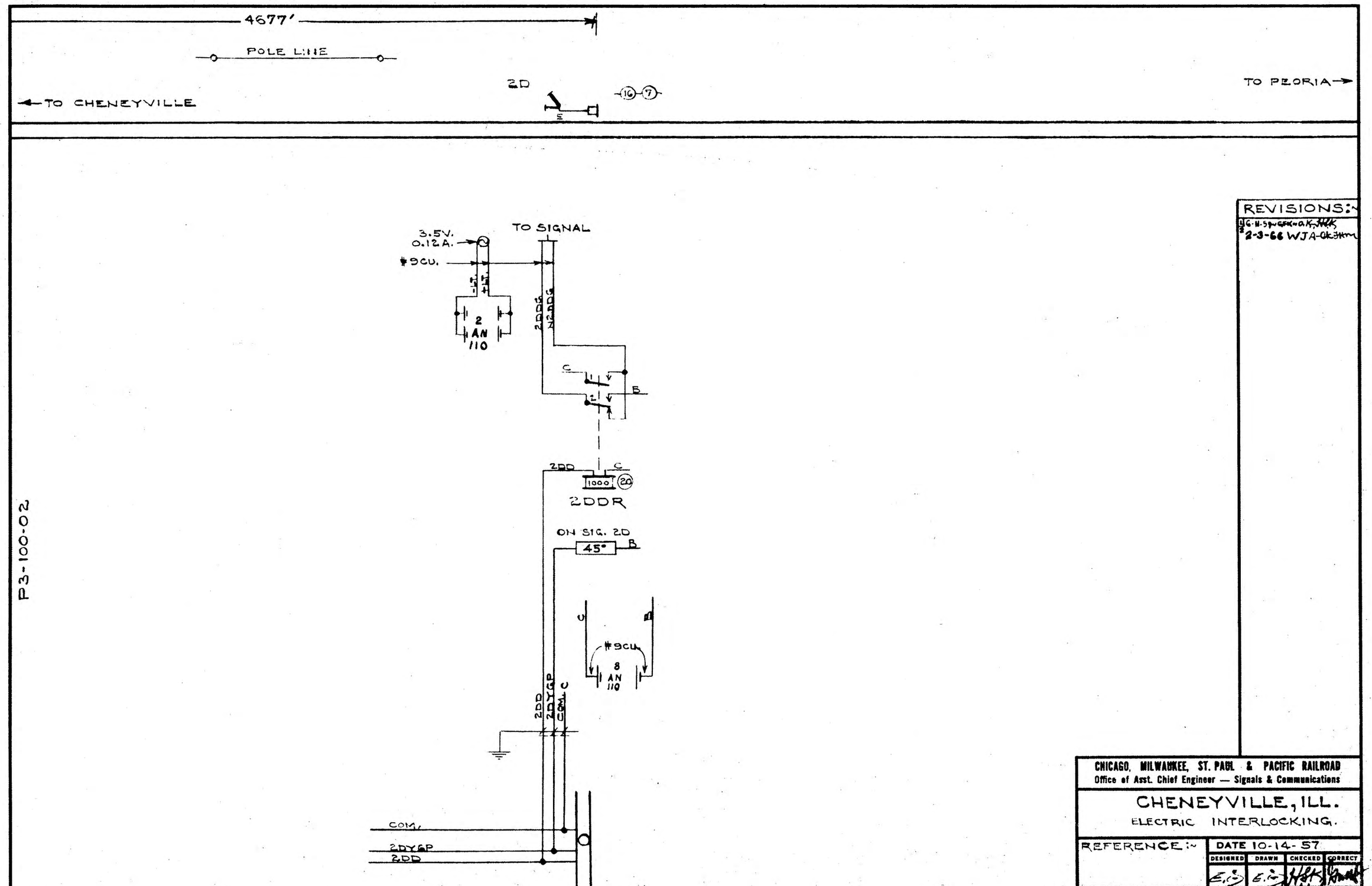
REFERENCE:N

DATE 10-9-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.D.	E.D.	W.K.	

T.H. DIV.

P3-100-2



P3-100-02

REVISIONS:
1 G.N. Spweska K, JHK
2 2-3-66 WJA-Ok JHK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:

DATE 10-14-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	WJA	

T. H. DIV.

P3-100-01

4677'

POLE LINE

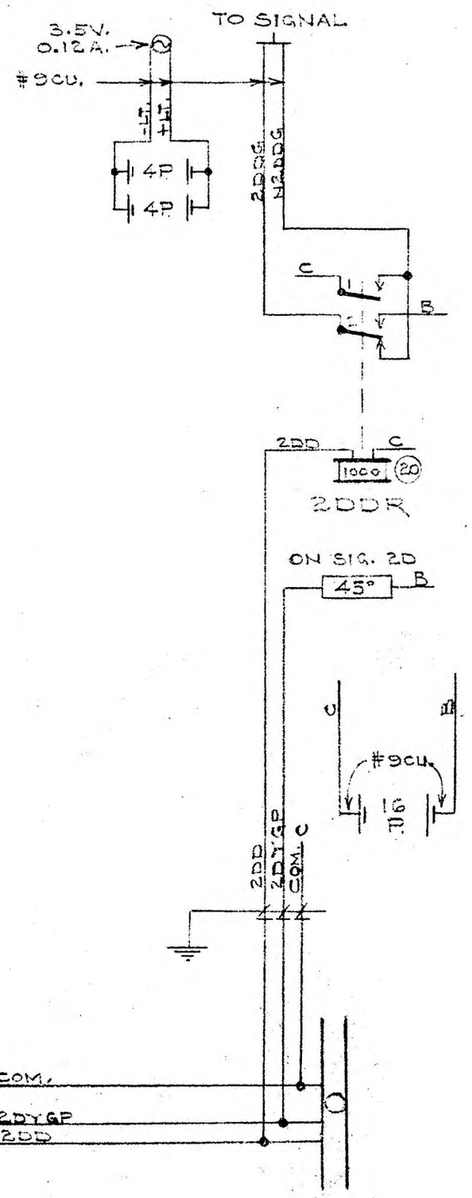
TO CHENEYVILLE

2D

E

16 7

TO PEORIA



P3-100-02

REVISIONS:
11-6-11-59 W GFK NO. K. JHK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:

DATE 10-14-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.J.	E.J.	H&K	

T. H. DIV.

P3-100-01

1323'

POLE LINE

INTERCHANGE TRACK

← TO CHENEYVILLE

TO PEORIA →

381'

B-2P

WIRED PER STD. DRWG. 1168, FIG. "B"

REVISIONS:-N

10-11-57 - GFK & KJHK.

P3-101-01

P3-100-01

2DD-S

2DD-N

DRWG. P3-101-1

COM.

2DYGP

2DD

2DD-S

COM.

2DYGP

2DD-N

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCE:-N	DATE 10-11-57			
	DESIGNED	DRAWN	CHECKED	CORRECT
	E.J.	E.J.	J.H.K.	
T.H. DIV.	P3-100-02			

5

462' 150' 150' 2021'

INTERCHANGE TRACK

← TO COALTON

INTERCHANGE TRACK

POLE LINE

TOWER

ST. L. RR.

C.M. ST. P. & P. RR.

300'

3-4T

#5-1 P.

TO FAITHORN →

N.Y.C. & St. L. RR.

REMOVE DIAMOND AND 3 RAIL LENGTHS EACH SIDE ON MILW. TRACKAGE

*INDICATES WIRED PER STD. DRWG. 1168, FIG. 'B' WITH RT-5 TRACK RECTIFIER & TEST BUTTON. (500AH. BATTERY)

IN #14 CU. PKWY. CABLE

3DG

N3DG

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-A)

3

B

3RGP

3RGPR

3E

3EB

3EN

10V. 21.5W. LAMP.

IN #9 CU. PKWY. CABLE.

3-4TR

IN #14 CU. PKWY. CABLE.

4DG

N4DG

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-1A)

4

4RGP

4RGPR

B

EB

4E

EN

4EN

10V. 21.5W. LAMP.

IN #9 CU. PKWY. CABLE.

TO INSTRUMENTS

#48A-RETARD COIL.

#2 (TELG.)

#2

TO RELAY HOUSE.

NX220

BX220

#10 CU.

NKP-TP

NKP-NTP

REVISIONS:

1 6-58 [illegible] OK HSK

2 REVISED ACCT. NO. DUE TO ADDITION OF THE PROPOSED AUTO. INTERLOCKING TO AN ELECTRIC INTLK. A.F.E. 77676 SERVICE DATE: 6-11-59 [illegible] OK HSK

3 10-1-59 ~ WJW ~ OK EAK

4 11-7-60 ~ RB OK EAK

5 6-8-77 WKEA OK REH

4-19-78 REH ~ OK EAK

RED OUT

YELLOW - IN

2-28-80

MCW

CREW

P3-102-1

P3-100-2

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD

Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.

ELECTRIC INTERLOCKING

REFERENCE:~ P3-101-1A, 1B, 1C, 1D, 1E, 1F.

DATE 10-3-57

DESIGNED	DRAWN	CHECKED
E.J.S.	W.F.K.	

T.H. DIV.

P3-101-1

462' 150' 150' 2021'

INTERCHANGE TRACK

←TO COALTON

POLE LINE

TOWER

ST. L. RR.

C.M. ST. P. & P. RR.

TO FAITHORN →

300'

3-4T

4 SL. SL. #5-2P.

3 SL. SL.

INTERCHANGE TRACK

N.Y.C. & St. L. RR.

*INDICATES WIRED PER STD. DRWG. 1168, FIG. 'B' WITH RT-5 TRACK RECTIFIER & TEST BUTTON. (500AH. BATTERY)

REVISIONS:

1 6-5-58 E.C. OK H.E.K.

2 REVISED ACCT. NOTIFICATION OF THE PROPOSED AUTO. INTERLOCKING TO AN ELECTRIC INTLG. A.F.E. 77676 SERVICE DATE: 6-11-59 E.C. OK H.E.K.

3 10-1-59 ~ B.J.W. ~ OK E.C.K.

4 11-7-60 ~ B.B. ~ OK E.C.K.

IN #14 CU. PKWY. CABLE

3DG

N3DG

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-A)

3GGP

B

3DYGPR

3RGP

3RGPR

3GGPR

3E

3ME

EB

EN

10V. 21.5W. LAMPS.

IN #9 CU. PKWY. CABLE.

3DYGP

3DYGPR

3-4TR

IN #14 CU. PKWY. CABLE.

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-1A)

4DG

N4DG

4GGP

4GGPR

4DYGPR

4RGP

4RGPR

4E

4ME

4DYGP

4DYGPR

10V. 21.5W. LAMPS.

IN #9 CU. PKWY. CABLE.

TO INSTRUMENTS

#48A-RETARD COIL.

#2 (TELG.)

#2

TO RELAY HOUSE.

COM.

NX220 BX220 3DYGP 3DD MILW. COM. NKP COM. NKP 2DD 2DYGP 2DYGP 2DD NKP-TP 4DD 4DYGP NKP-NTP 1DD 1DYGP

COM. 3DYGP 3DD NX220 BX220 #10 CU.

COM. 4DYGP 4DD

1DYGP 1DD NKP-NTP NKP-TP COM.

P3-102-1

P3-100-2

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:~ P3-101-1A, 1B, 1C, 1D, 1E, 1F.

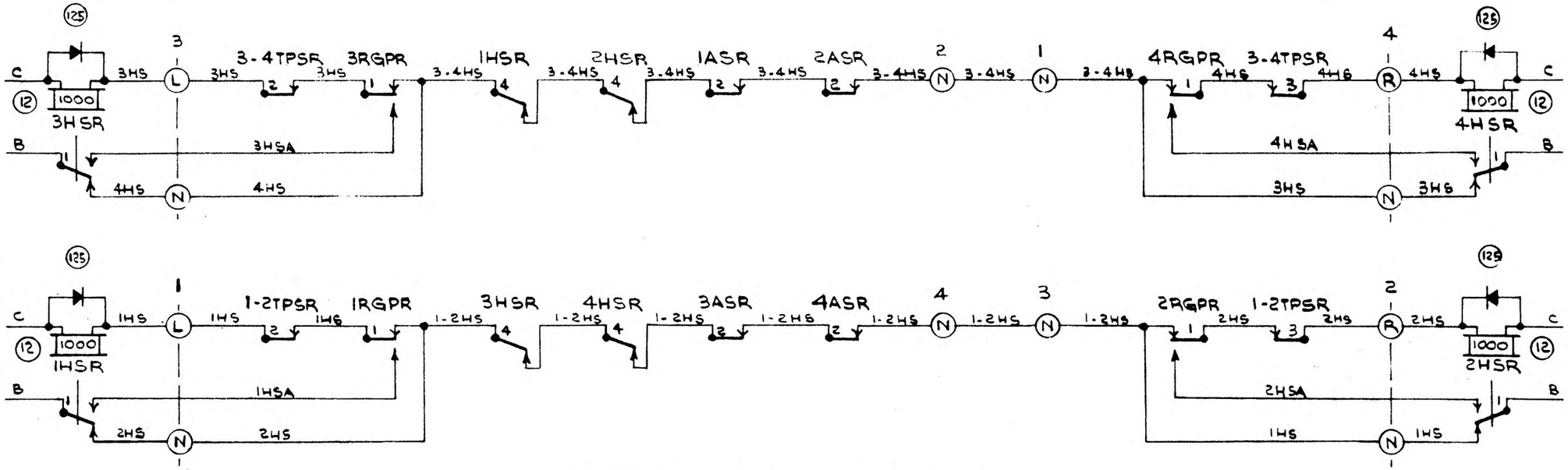
DATE 10-9-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	H.E.K.	

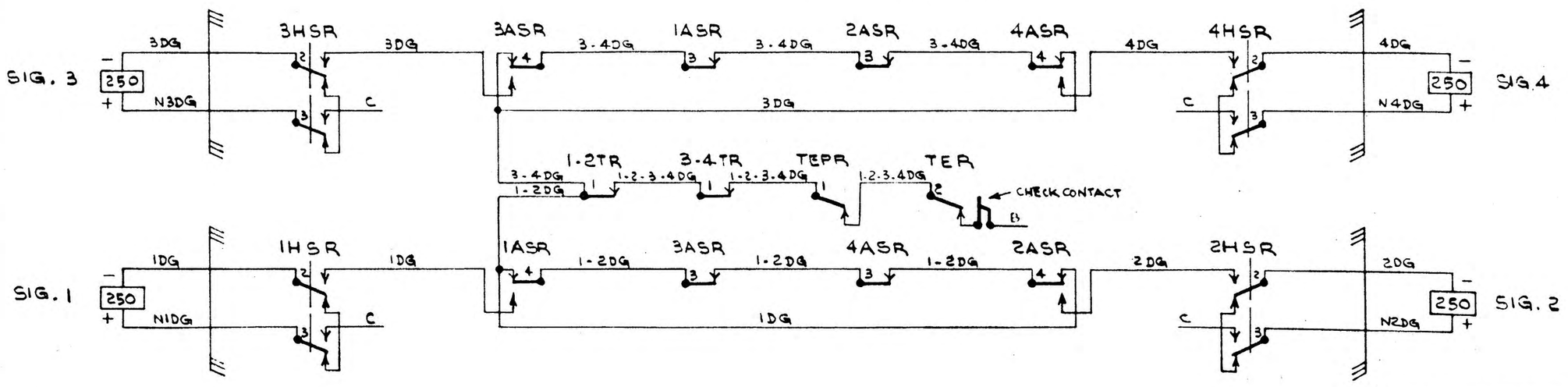
T.H. DIV.

P3-101-1

ROUTE CHECK NETWORK.



SIGNAL CONTROL CIRCUITS.



REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

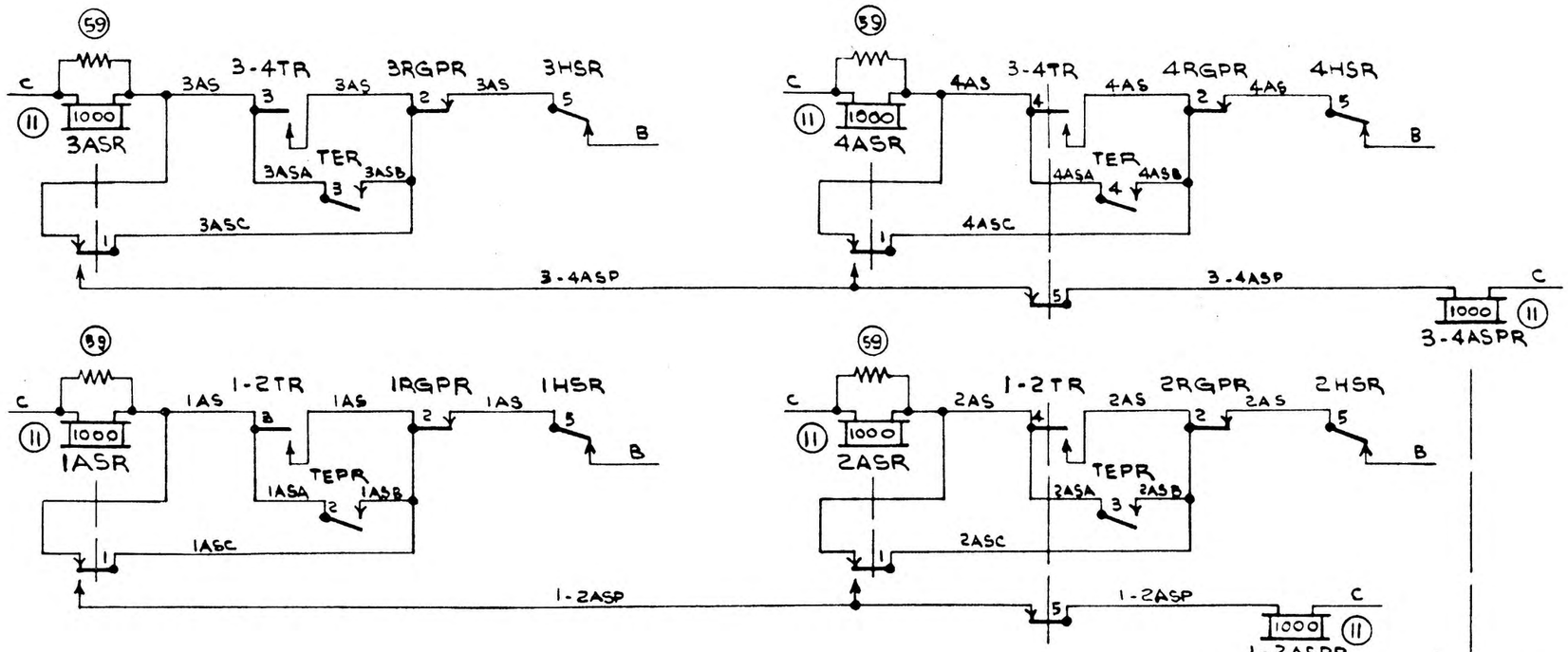
REFERENCE: P3-101-1R1B TO 1I

DATE 6-12-59

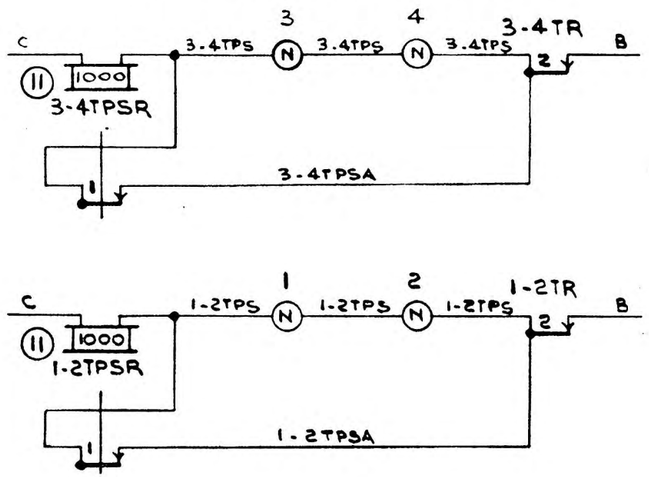
DESIGNED	DRAWN	CHECKED	CORRECT
GFK	GFK	HFK	HFK

T.H. DIV. | P3-101-1A

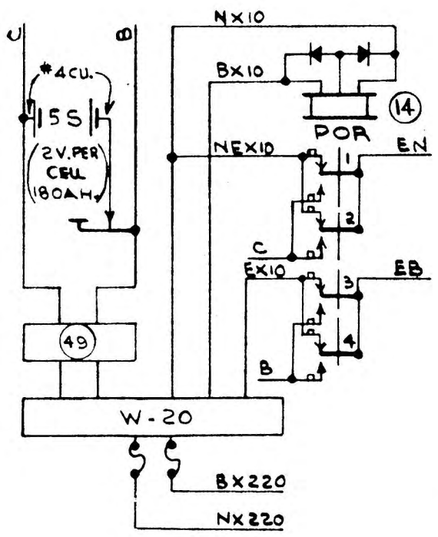
TIME LOCKING CIRCUITS.

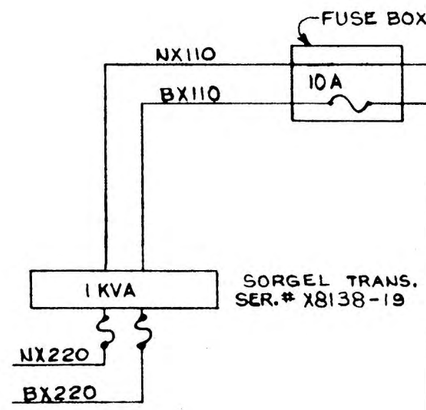


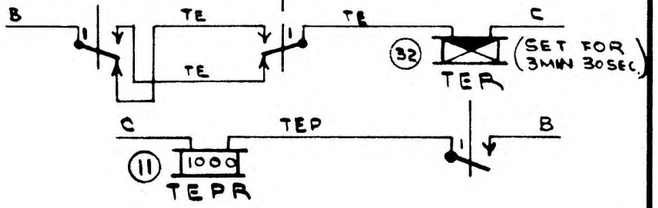
TRACK REPEATER STICK RELAYS.



POWER SUPPLY CIRCUIT.







REVISIONS

1 10-1-59 W.J.W. CK F.K.H.

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

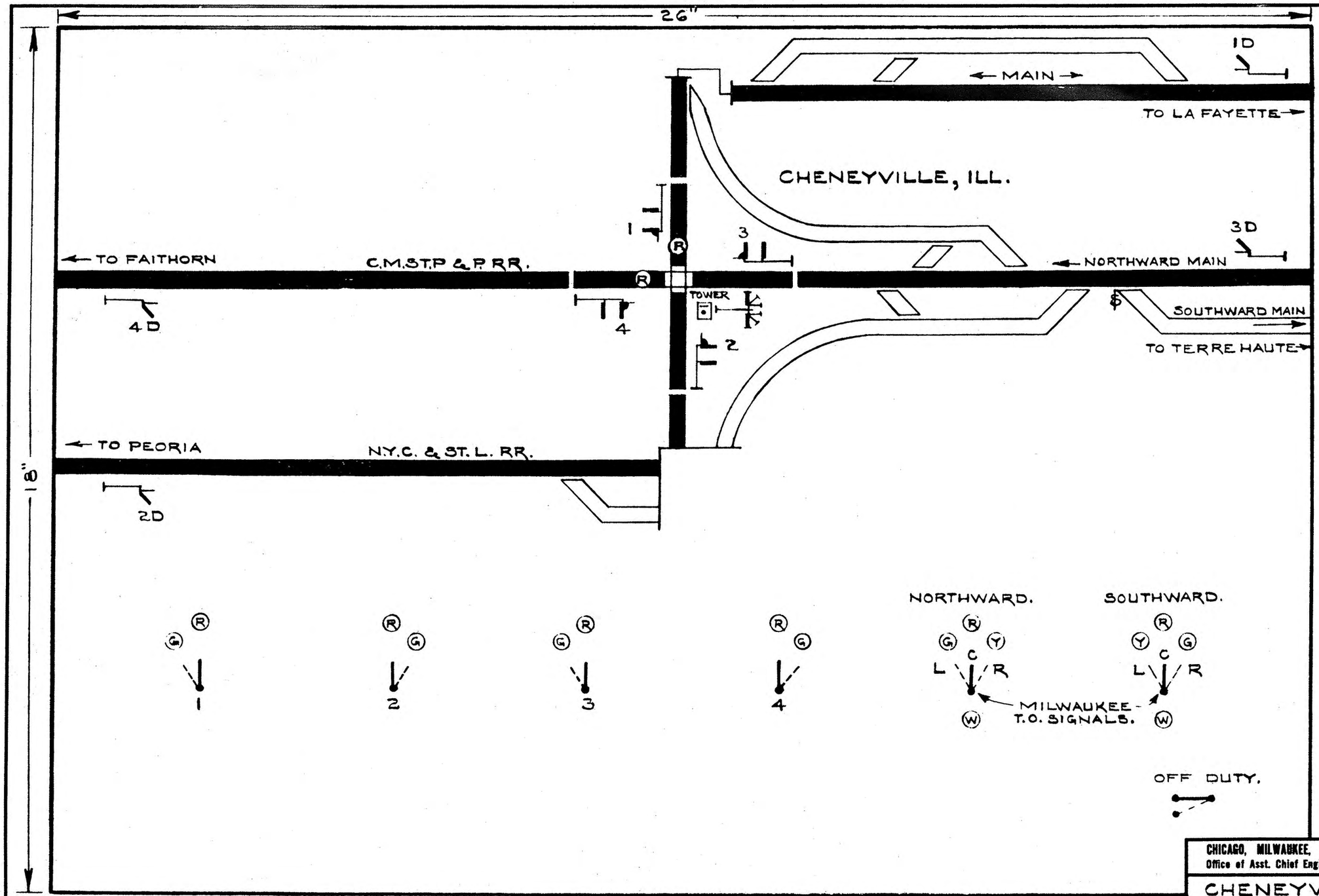
CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCE: P3-101-1, 1A & 1C TO 1F

DATE 6-12-59

DESIGNED	DRAWN	CHECKED	CORRECT
GFK	GFK	HSK	

T.H.DIV. P3-101-1B



REVISIONS:

1) REVISED ACCT. MODIFICATION OF THE PROPOSED AUTOMATIC INTERLOCKING TO AN ELECTRIC INTERLOCKING. A.F.E. 77676 SERVICE DATE: 6-11-59 — GRK. W.O. K7 HHK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

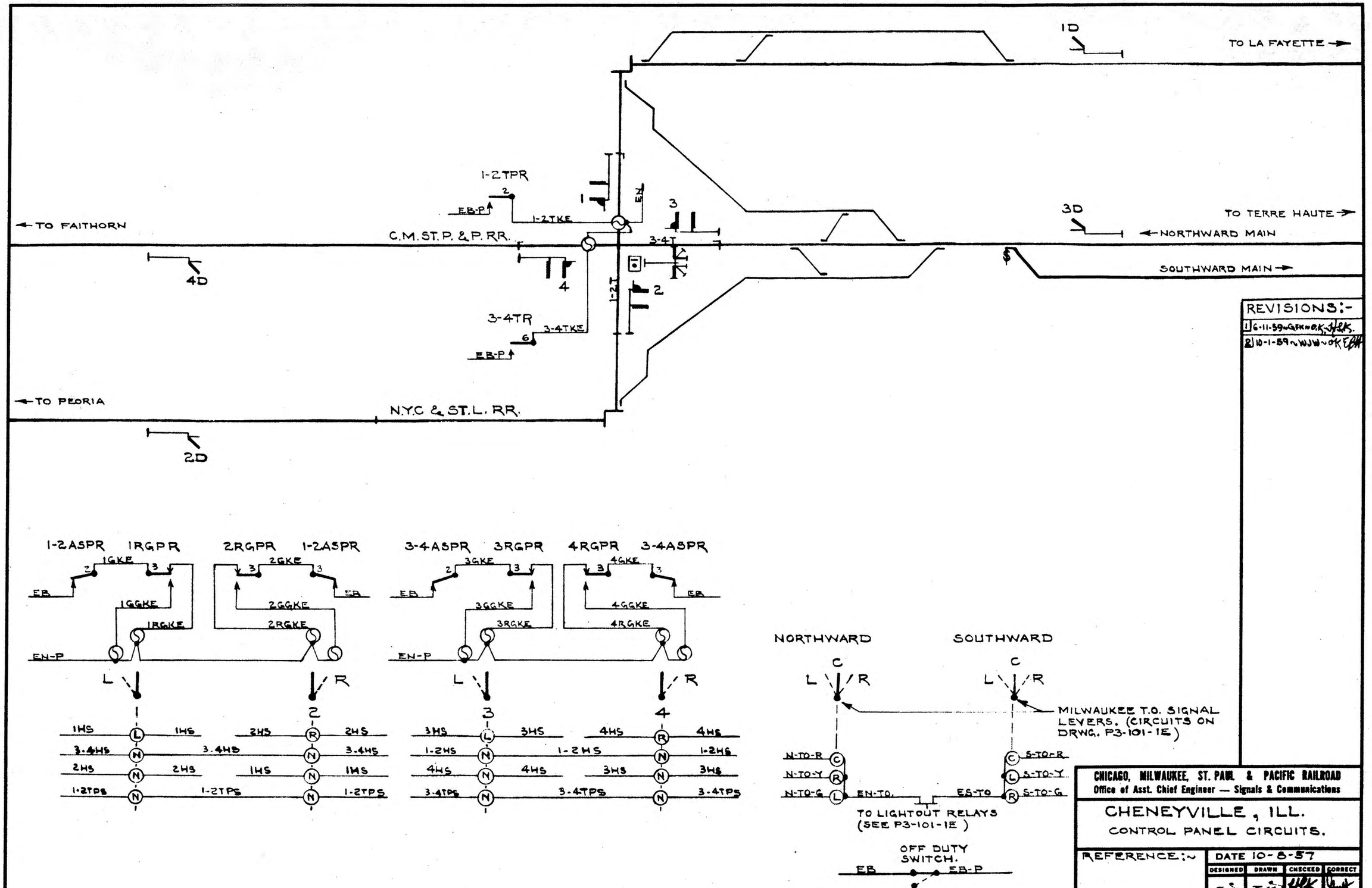
CHENEYVILLE, ILL.
CONTROL PANEL.
(NOT SCALE)

REFERENCE:

DATE 10-3-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.J.	E.J.	H.H.K.	

T.H. DIV. | P3-101-1C



REVISIONS:-

1 6-11-59 — GFK W.O.K. HEK.

2 10-1-59 — WJW W.O.K. EHK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
CONTROL PANEL CIRCUITS.

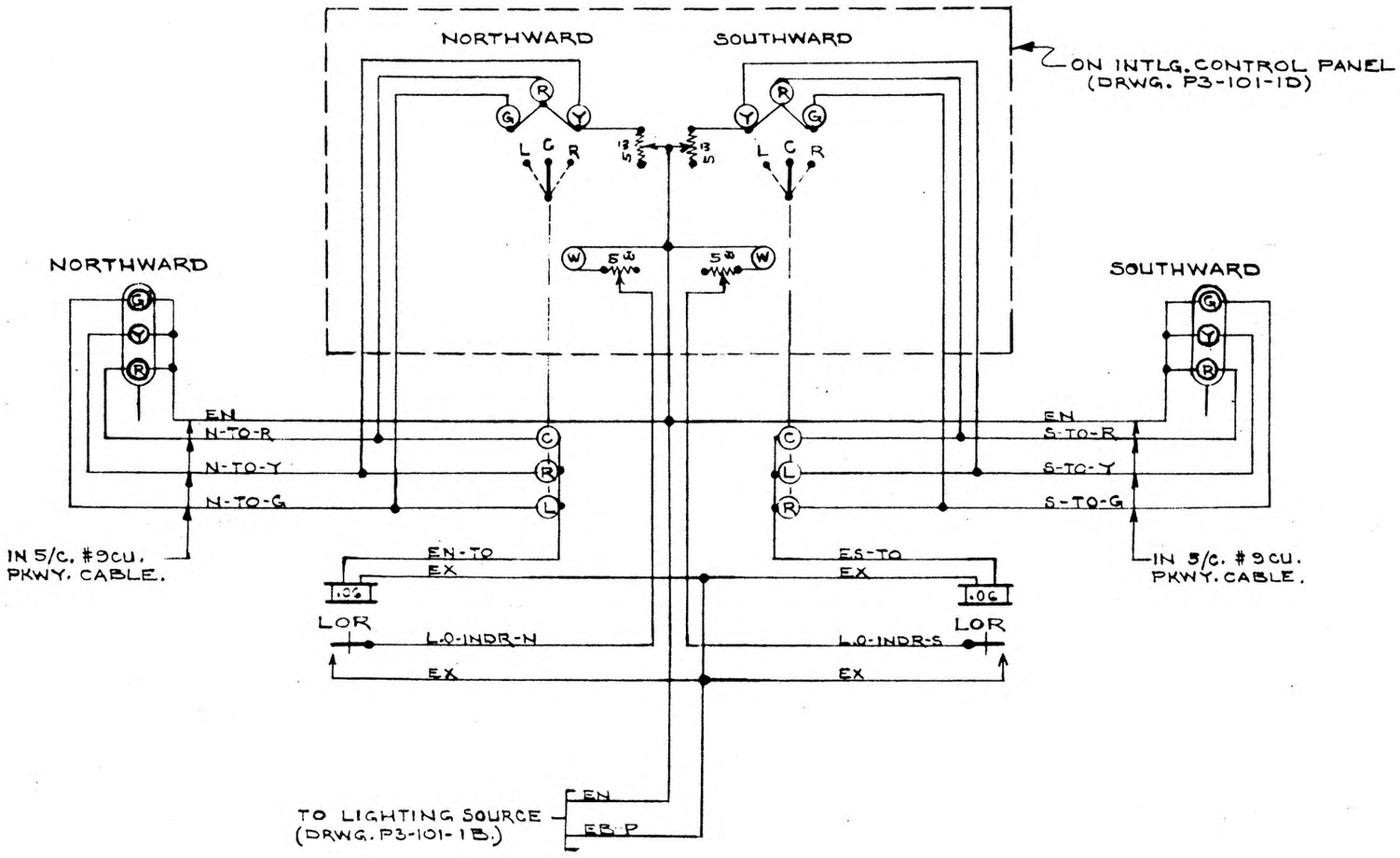
REFERENCE:-

DATE 10-8-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	HEK.	

T.H. DIV.

P3-101-1D



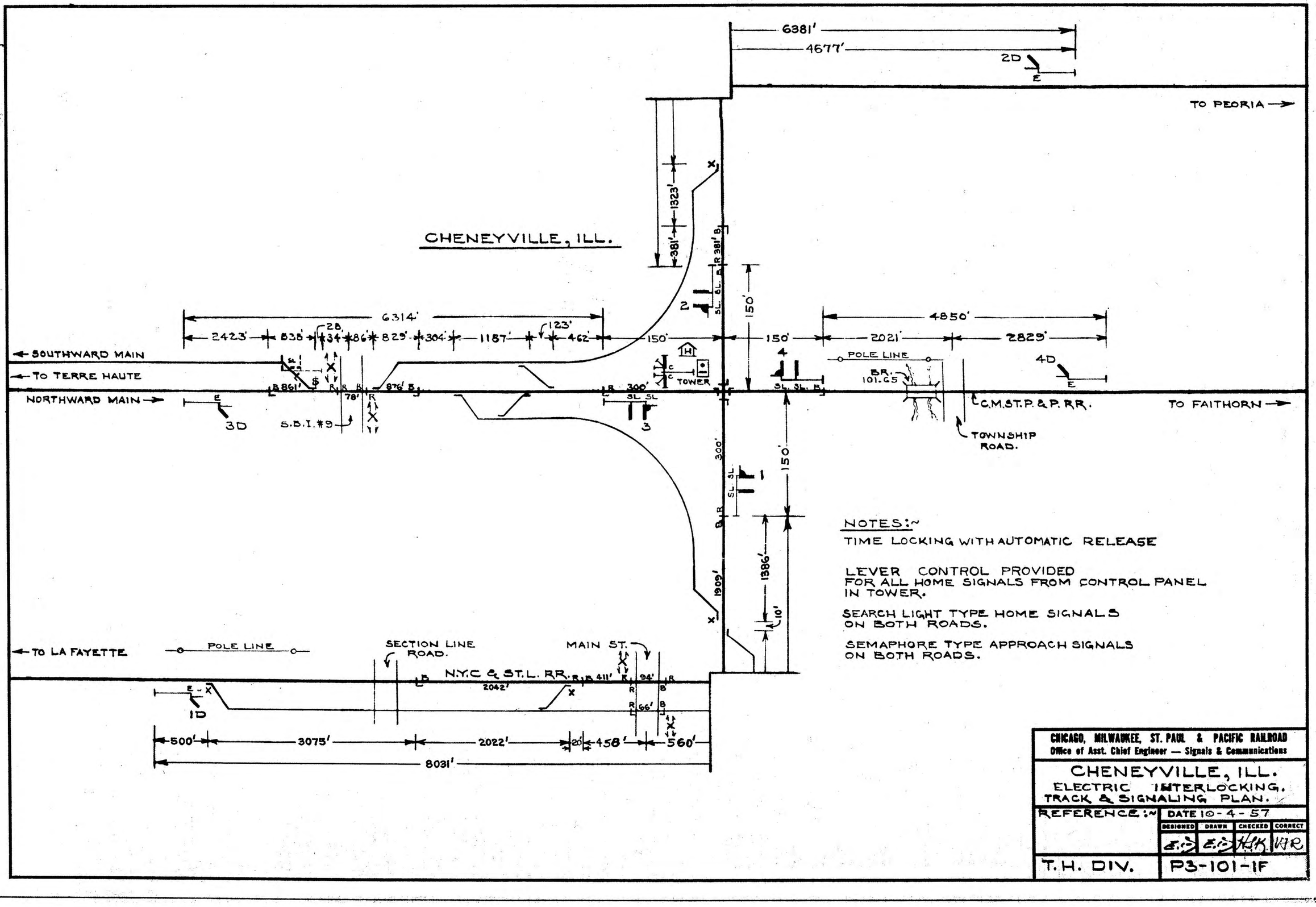
REVISIONS:

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
T.O. SIG. CONTROL CIRCUITS.

REFERENCE:	DATE 10-21-57			
	DESIGNED	DRAWN	CHECKED	CORRECT
	E.C.	E.C.		
T.H. DIV.	P3-101-1E			

REVISIONS:~
2-17-59~DFM O.K.-HEK.
8-6-67~DBP~
6-17-68~THS~OK EEK



NOTES:~

TIME LOCKING WITH AUTOMATIC RELEASE

LEVER CONTROL PROVIDED FOR ALL HOME SIGNALS FROM CONTROL PANEL IN TOWER.

SEARCH LIGHT TYPE HOME SIGNALS ON BOTH ROADS.

SEMAPHORE TYPE APPROACH SIGNALS ON BOTH ROADS.

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.
TRACK & SIGNALING PLAN.

REFERENCE:~

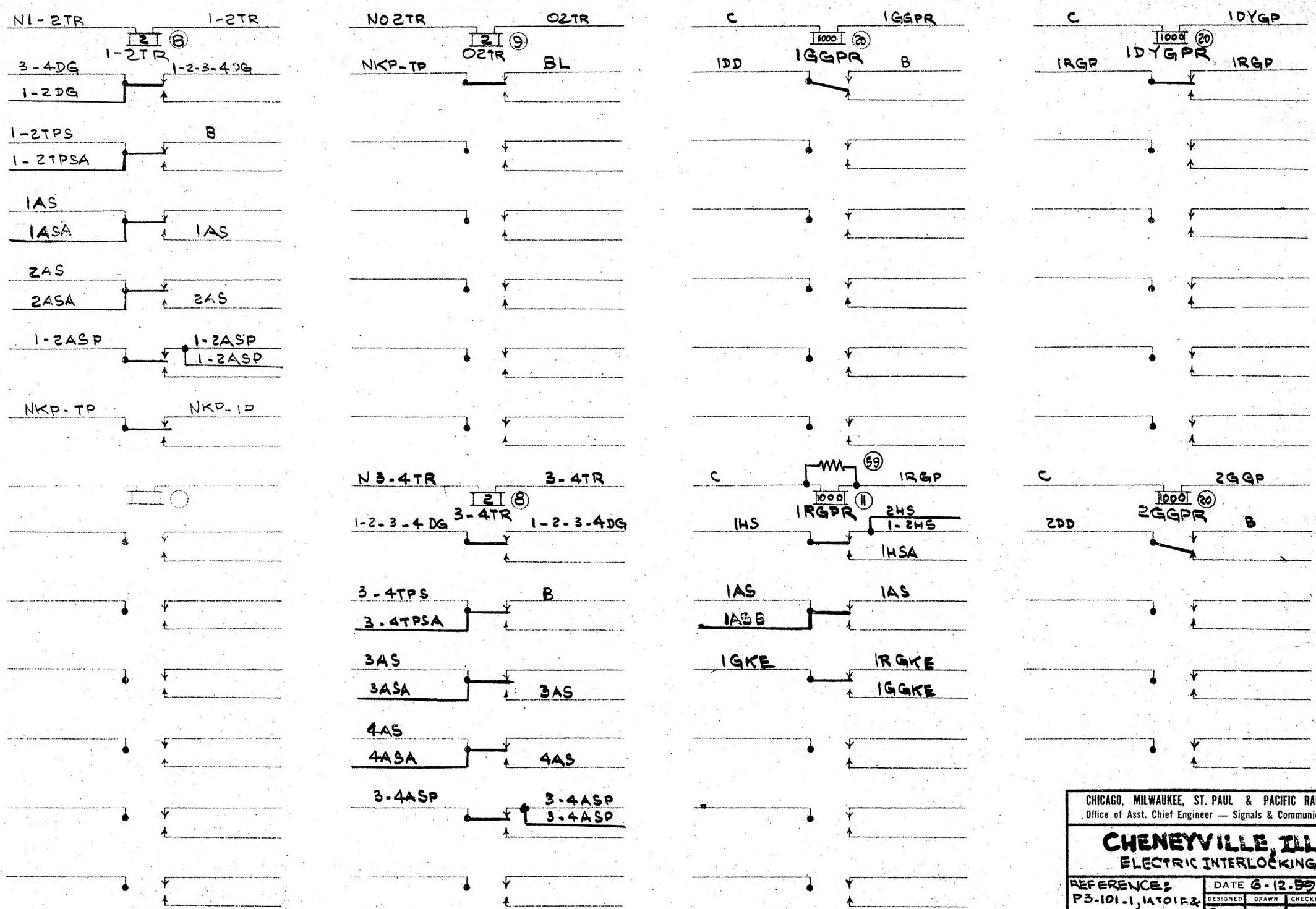
DATE 10-4-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	H.E.K.	V.H.R.

T. H. DIV.

P3-101-1F

REVISIONS



CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCES:
P3-101-1, 1A TO 1F & 1H TO 1J

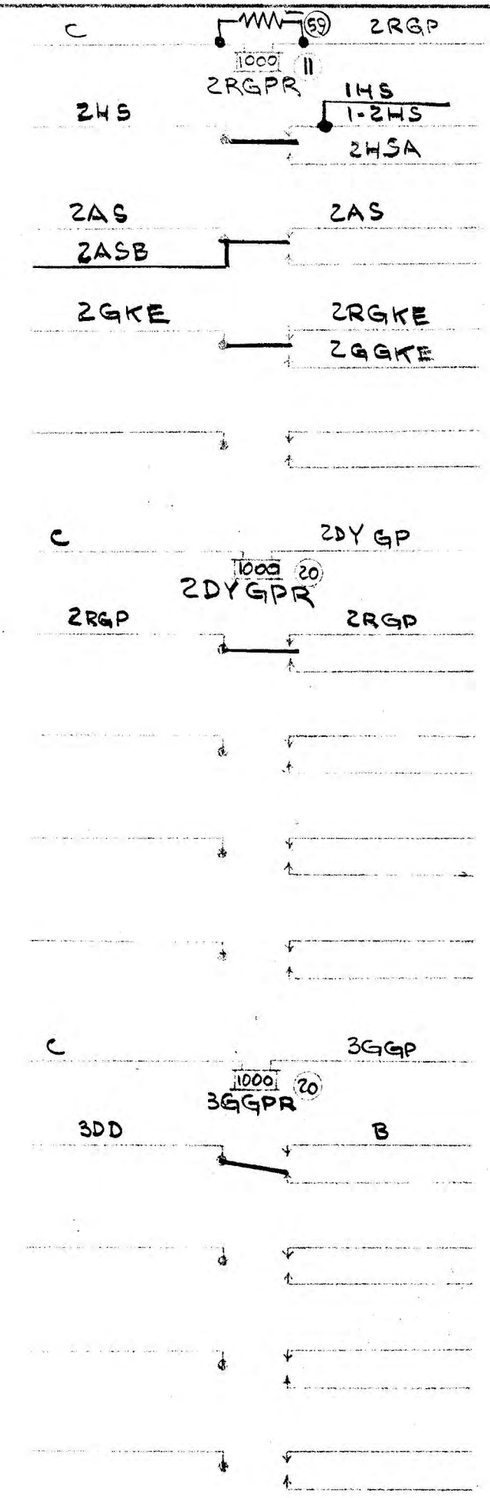
DATE 6-12-59

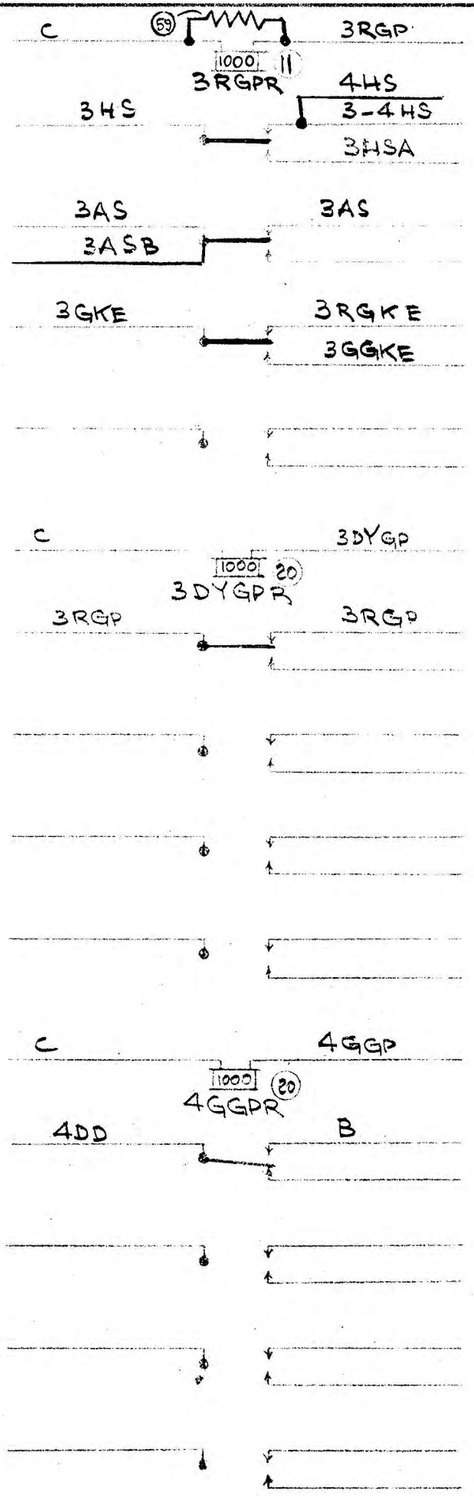
DESIGNED	DRAWN	CHECKED	CORRECT
GFK	GFK		

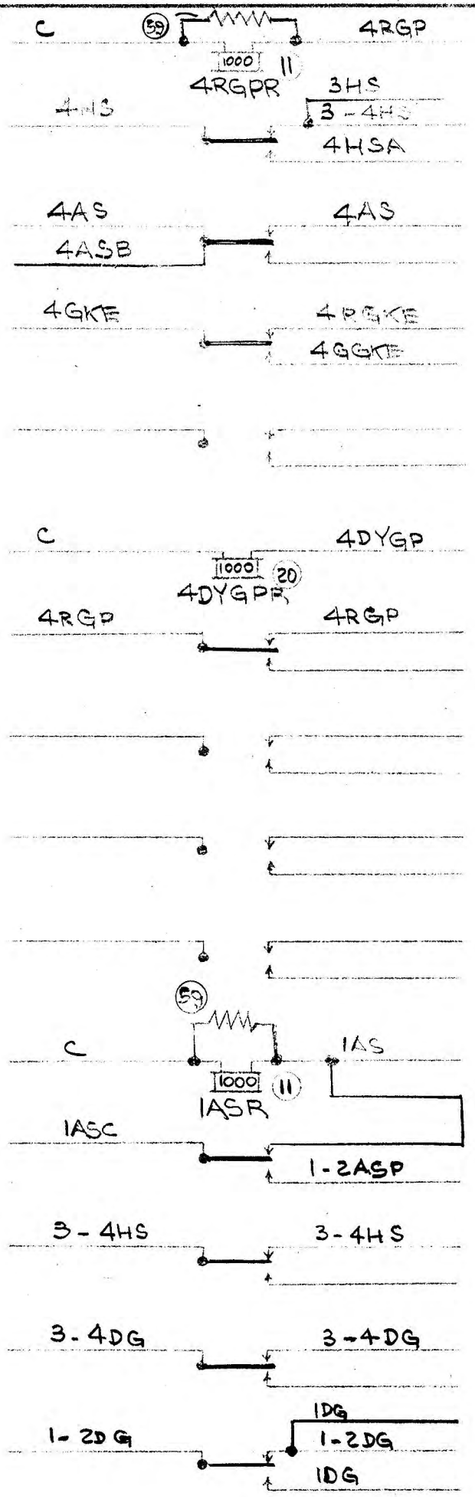
T.H. DIV.

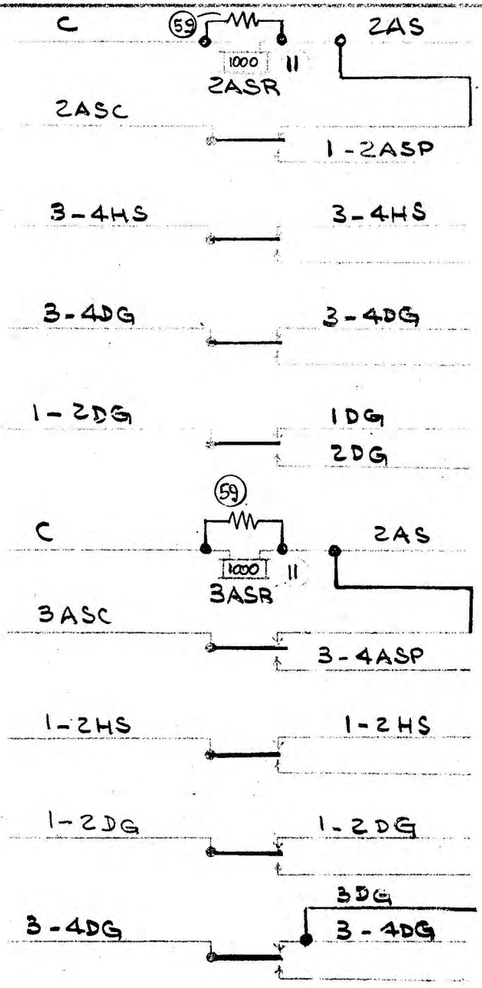
P3-101-1G

REVISIONS









CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCE: P3-101-I, IA TO IG I & IJ.

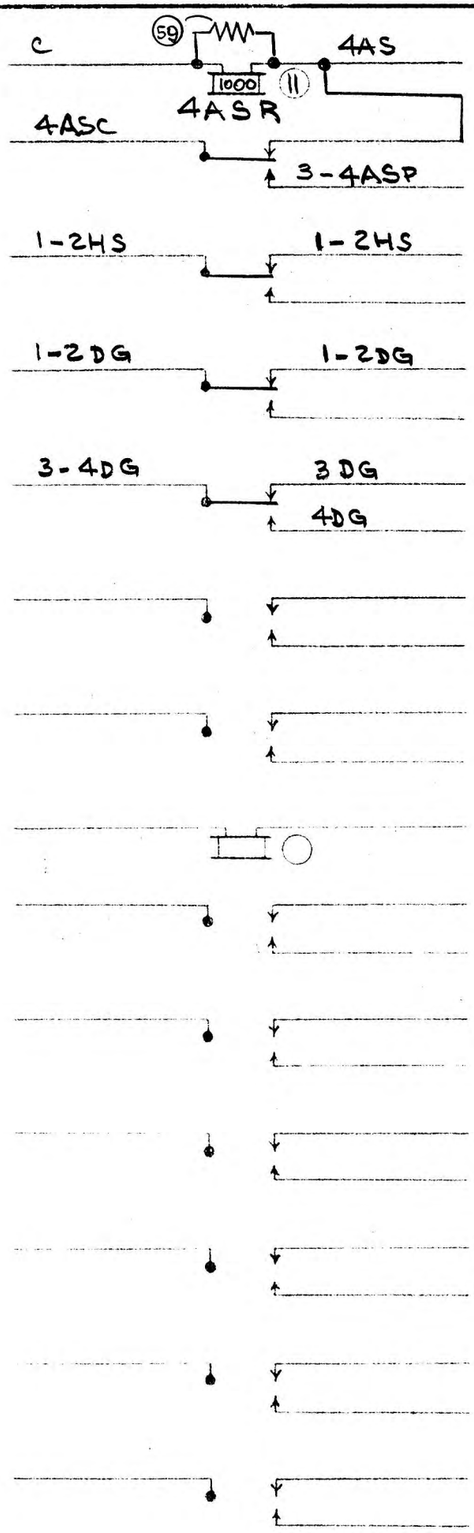
DATE 6-12-59

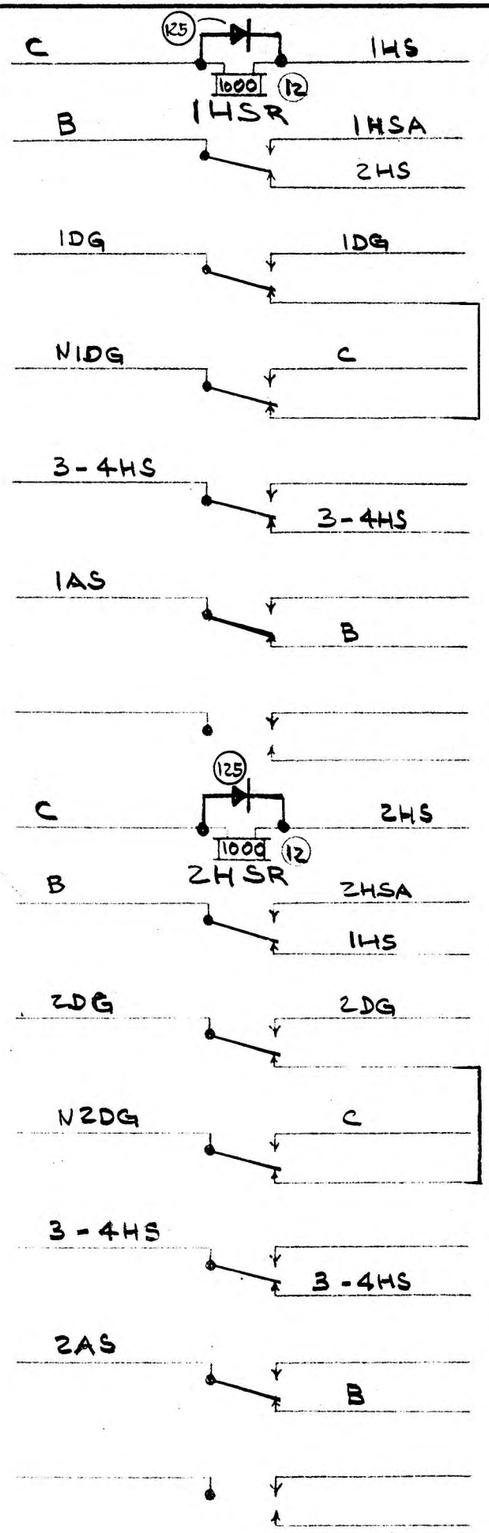
DESIGNED	DRAWN	CHECKED	CORRECT
GFK	GFK		

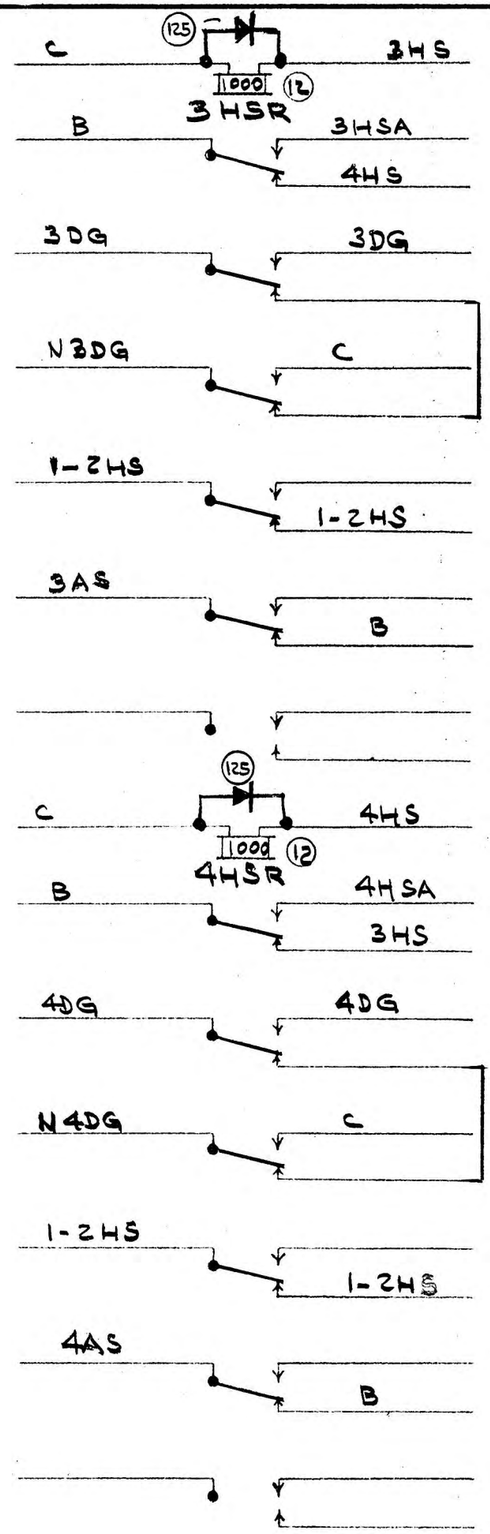
T.H. DIV.

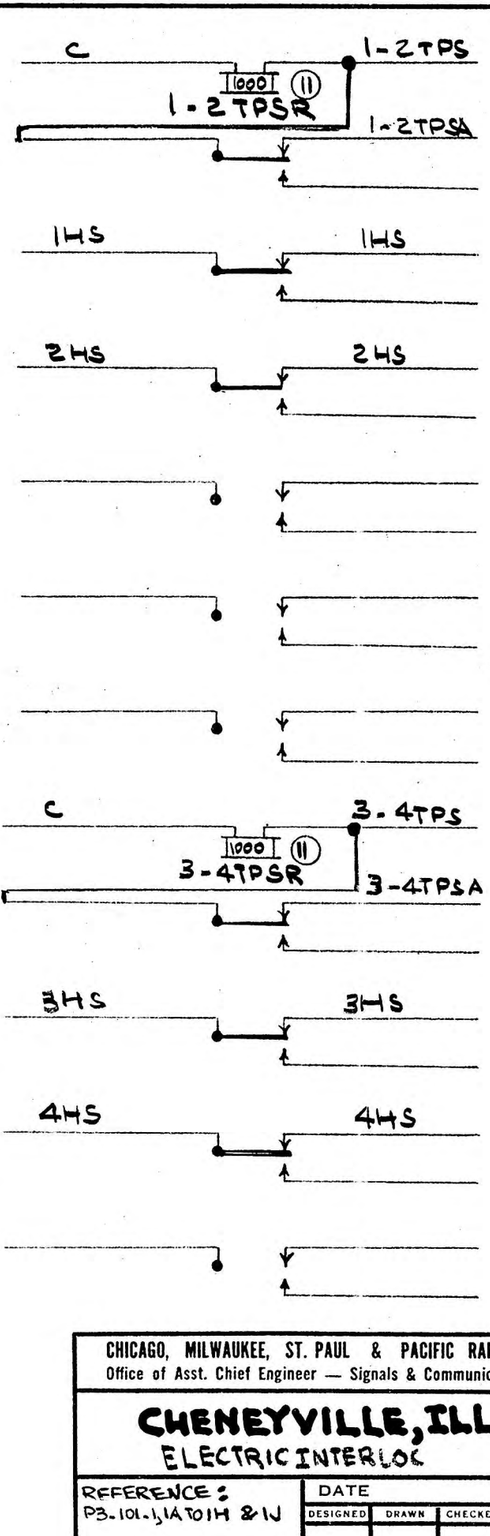
P3-101-IH

REVISIONS









CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOC

REFERENCE:
P3-101-1, 1A TO 1H & 1J

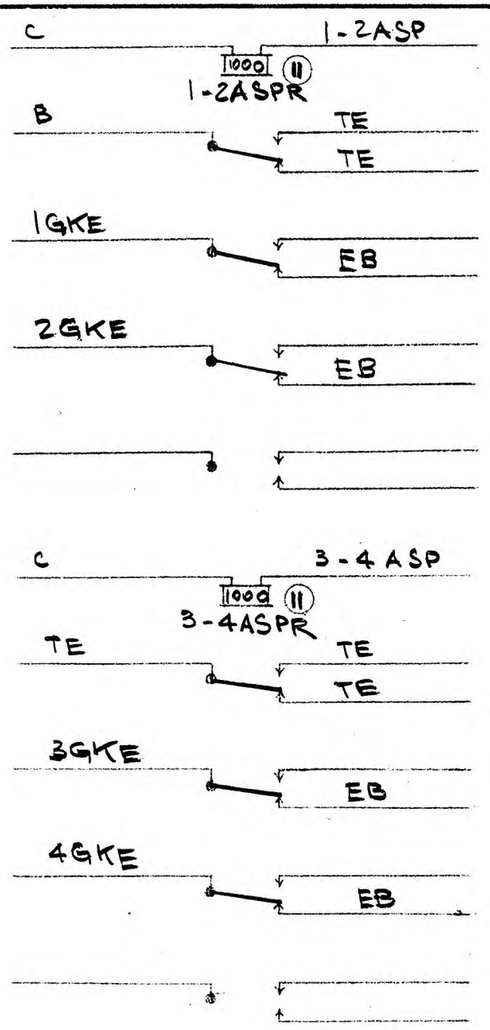
DATE

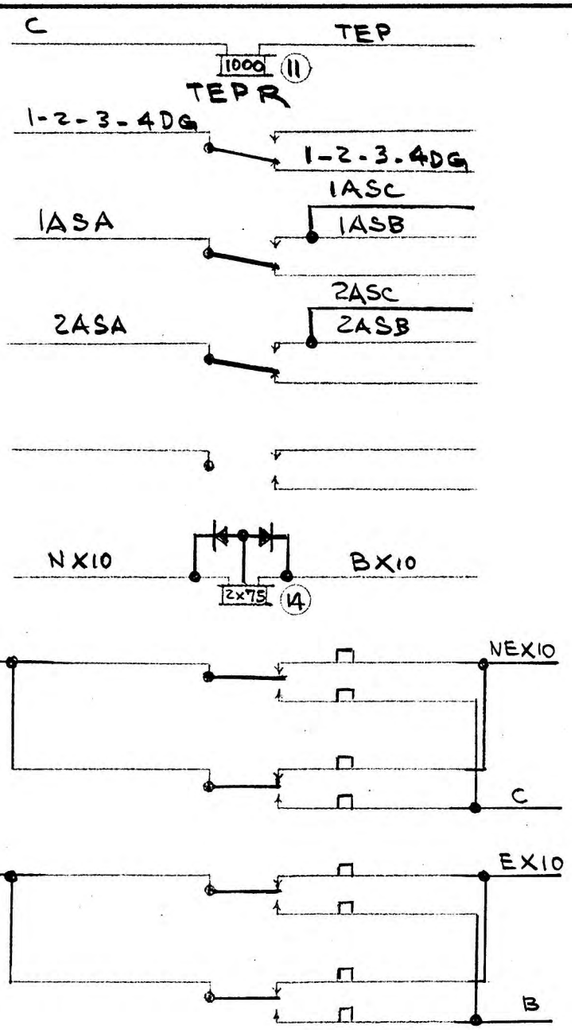
DESIGNED	DRAWN	CHECKED	CORRECT

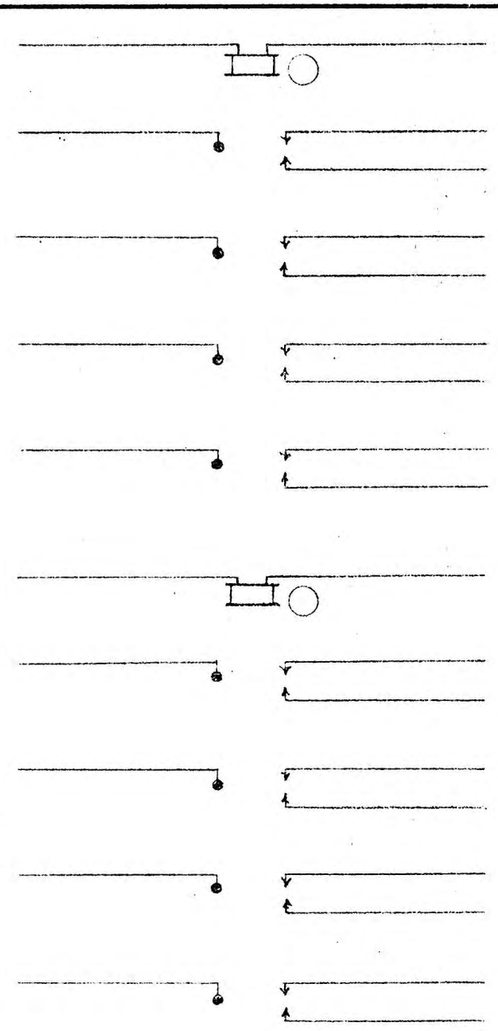
T.H. DIV.

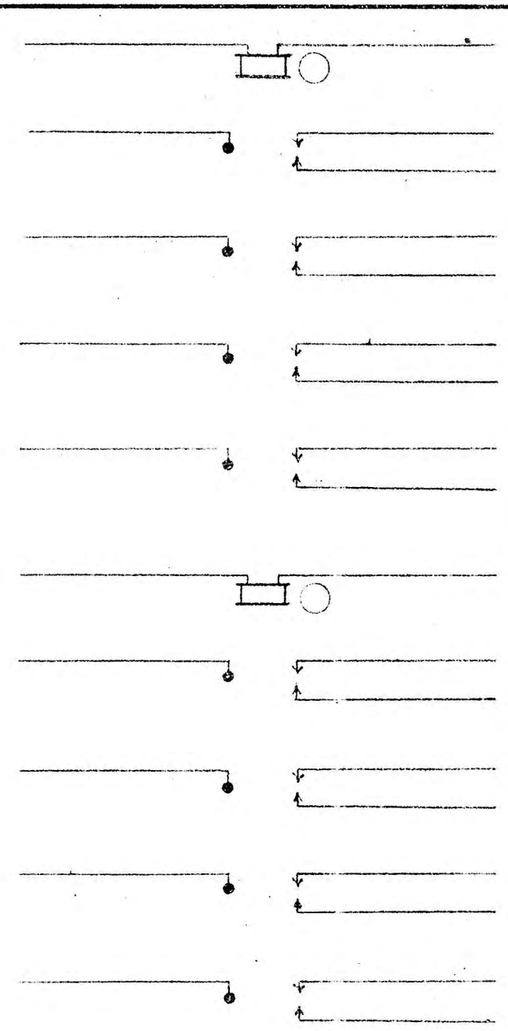
P3-101-1I

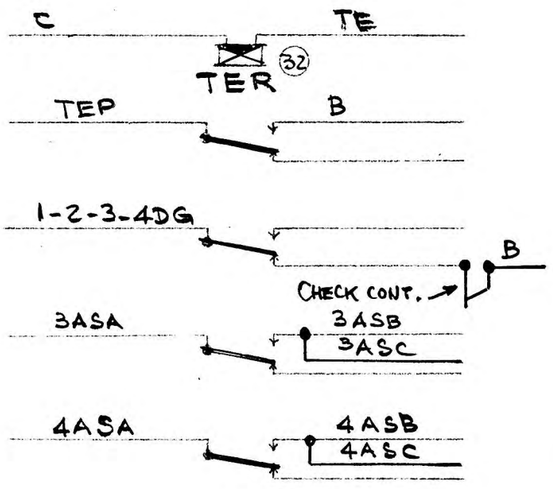
REVISIONS

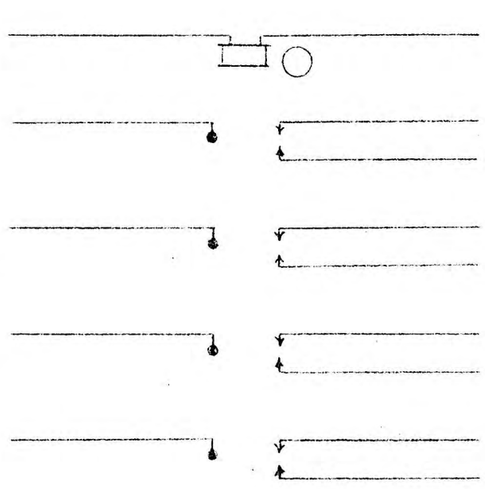


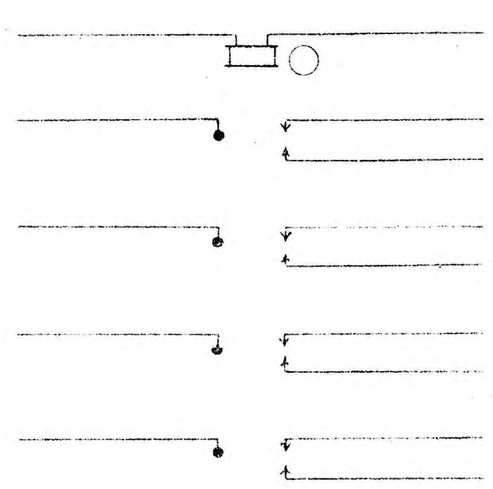












CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCE: P3-101-1 & 1A TO II

DATE 6-12-59

DESIGNED	DRAWN	CHECKED	CORRECT
GFK	GFK		

T. H. DIV.

P3-101-1J

150' 150' 381'

INTERCHANGE TRACK

INTERCHANGE TRACK

← TO LA FAYETTE

TO PEORIA →

N.Y.C & ST.L. RR.

C.M.ST.P. & P. RR.

POLE LINE

I ← TOWER

405' B 300' 1-2T *B-2P 381'

SL. SL. 1

SL. SL. 2

*INDICATES WIRED PER STD. DRWG. 1168, FIG. 'B'

IN #14CU. PKWY. CABLE.

1DG

NIDG

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-1A)

1GGP

1DYGPR

1RGP

1RGPR

1E

EB

1ME

EN

10V. 21.5W. LAMPS.

IN #9CU. PKWY. CABLE

1DYGP

1DYGPR

1-2TR (8)

02TR (9)

02TR 1-2TPR

B 1 NKP-TP NKP-TP

C NKP-NTP

1-2 TR

B 6 1-2 TP C

1-2 TPR

NKP-NTP

NKP-TP

1DYGP

1DD

2DD

2DYGP

TO POLE LINE (DRWG. P3-101-1)

IN #14CU. PKWY. CABLE

2DG

N2DG

TO SIG. CONTROL CIRCUIT. (DRWG. P3-101-1A)

2

2GGP

2GGPR

2DD

2DYGPR

2RGP

2RGPR

2DYGP

2DYGPR

2E

EB

2ME

EN

10V. 21.5W LAMPS.

IN #9CU. PKWY. CABLE.

P3-101-02

P3-100-02

REVISIONS:N

3-6-58 E.C.O.K. H.K.

2 REVISED ACCT. OF THE MODIFICATION OF THIS PROPOSED AUTO. INTERLOCKING TO AN ELECTRIC INTLG. A.F.E. 27676. SERVICE DATE: 6-11-59 ~ GBK W.O.K. H.K.

3 10-1-59 ~ WJW O.K. E.C.O.

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE: N P3-101-1, 1A TO 1F

DATE 10-11-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	H.K.	

T.H. DIV. P3-101-01

20' 458' 560' 10' 1386'

POLE LINE

SPECIAL SELECTION TROUGH S.W.C.C. FOR XING SIGNALS SEE N.Y.C. & ST L.R.A. SHEET ③ S-1298-1-C1

TO LA FAYETTE

TO CHENEYVILLE

ST.

NKP. DEPOT

2042' R B 411' R R 94' B R 1909'

R 66' B

MAIN

P3-102-01

P3-101-01

TPR

NOTE:-
WIRES AND APPARATUS SHOWN DOTTED ARE OWNED AND MAINTAINED BY N.Y.C. & ST. L. RR.

TP NTP

IDD-S IDD-N

IN #14 CU. PKWY. CABLE

COM. IDYGP IDD

COM. IDYGP IDD-S NKP-NTP NKP-TP

COM. IDYGP IDD-N NKP-NTP NKP-TP

DRWG. P3-101-1

REVISIONS:
1) 6-11-59 - GFK & O.K. HLK.

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:N

DATE 10-14-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.S.	HLK	

T.H. DIV.

P3-101-02

500'

3075'

2022

POLE LINE

WIRED PER STD. DRWG. 1168, FIG. 'B'

⑰ B

2042'

← TO LA FAYETTE

⑯ ⑰ D E 1D

X

TO CHENEYVILLE →

TO SIGNAL

3.5V. 0.25A.

#9CU.

-LT. +LT.

2 AN-110

NIDRG IDRG

C

B

C

#9CU.

8AN-110

B

C

1000 Ω

IDDR

ON SIG. 1D.

45° B

IDD IDYGP COM C

IDD-S

IDD-N

IN #14CU. PKWY. CABLE.

COM.

IDYGP

IDD

COM.

IDYGP

IDD

REVISIONS: N

1 C-11-59 - [illegible] O.K. - WHK

2 2-4-66 - W.S.A. - GR. WHK

P3-101-02

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING

REFERENCE: N

DATE 10-14-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	WHK	

T. H. DIV.

P3-102-01

500'

3075'

2042"

POLE LINE

WIRED PER STD. DRWG. 1168, FIG. B

⑰

2042'

TO LA FAYETTE

⑯ ⑰ E ID

X

TO CHENEYVILLE

TO SIGNAL

3.5V. 0.25A.

#9CU.

-ET +ET

NIDDG

IDDG

4P

4P

B

C

C

#9CU.

B

16P

C

1000Ω ⑱

IDDR

ON SIG. ID.

45°

B

C

IDD

IDYGP

COM

IDD-S

IDD-N

IN #14CU. PKWY. CABLE.

COM.

IDYGP

IDD

COM.

IDYGP

IDD

REVISIONS: N

1 6-11-59 N.G.F.K. N.O.K. J.H.K.

P3-101-02

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD

Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.

ELECTRIC INTERLOCKING

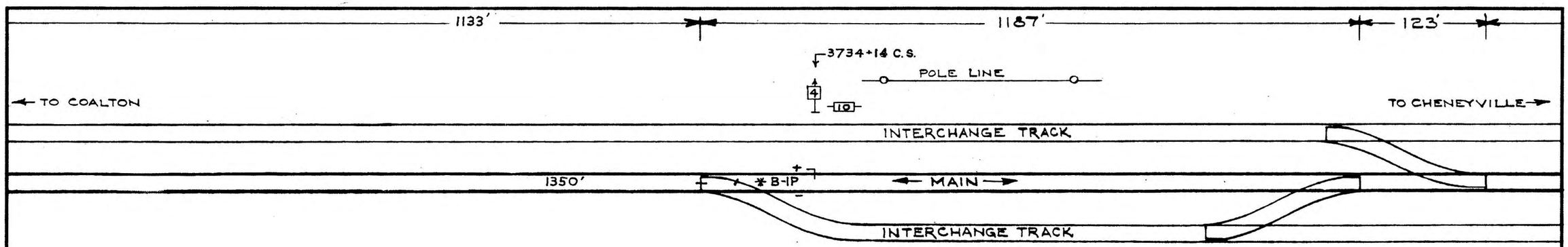
REFERENCE: N

DATE 10-14-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.J.	E.J.	H.B.K.	J.H.K.

T.H. DIV.

P3-102-01

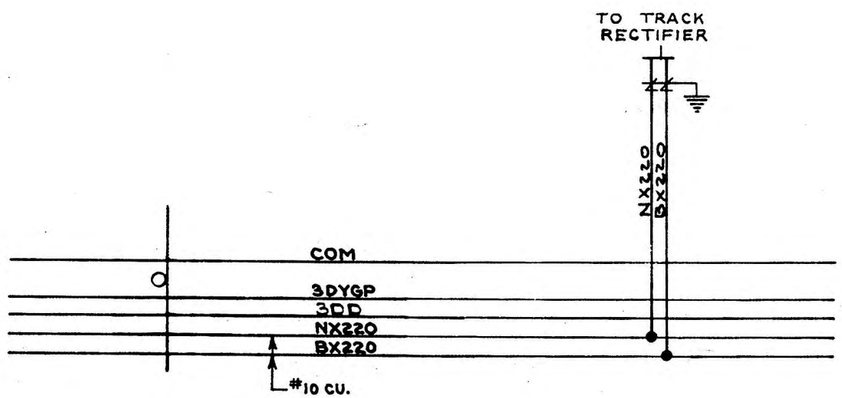


* INDICATES WIRED PER STD. DRWG. 1168, FIG. 'B' WITH RT.-5 TRACK RECTIFIER AND TEST SWITCH (1000 AH. BATT.)

REVISIONS:~

1	6-11-59 ~ GPK NO K-HPK
2	10-1-59 ~ WJW ~ OK-EGW
3	3-9-67 ~ DBP ~ OK JHA
4	10-8-71 ~ MWA ~ OK JHA

P3-102-2



P3-101-1

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

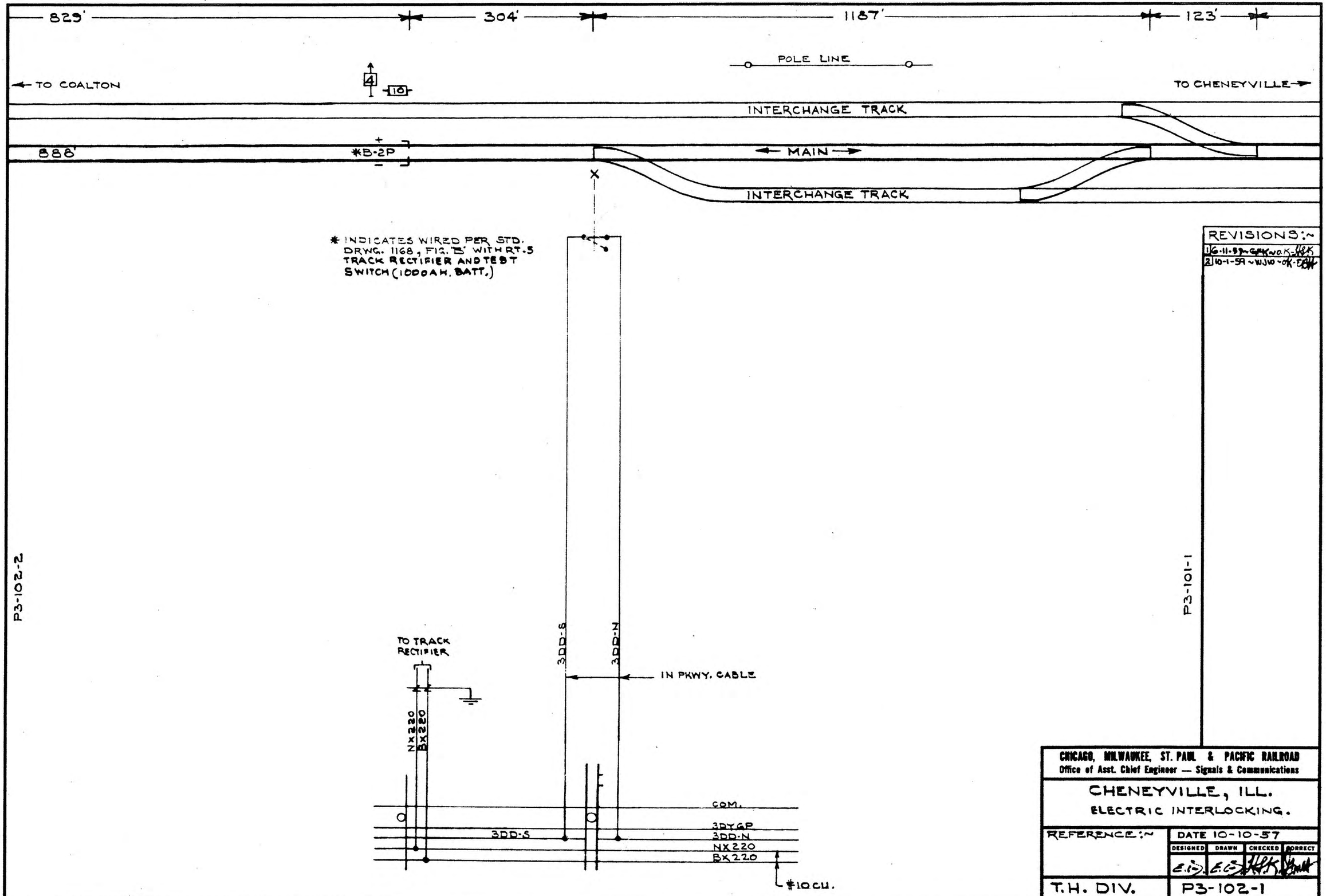
REFERENCE:~

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.G.	E.G.	HPK	JHA

T.H. DIV.

P3-102-1



P3-102-2

P3-101-1

REVISIONS:~

1 6-11-59 ~ GAK WOK HEK

2 10-1-59 ~ WJW ~ OK-DAW

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:~

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.J.	E.C.	HEK	

T.H. DIV.

P3-102-1

28' 34' 86'

US&S CO. STYLE S-20
SPRING SWITCH NORMALLY
LINED FOR SOUTHWARD MAIN
EQUIPPED WITH F.P.L.

← TO COALTON

SOUTHWARD MAIN

PHONE

SL MC

F.P.L.

NORTHWARD MAIN

861'

POWER LINE →

S.B.I. #5

STUB POLE

M 20

2" PIPE

*B P

78'

876'

POLE LINE

AAR. FLASHING LIGHT SIGNALS
INSTALLED UNDER FEDERAL AID.
AFE. TH. 1993
SERVICE DATE 3-27-36.

*INDICATES WIRED PER STD. DRWG.
1168, FIG. "B" WITH RECTIFIER AND TEST SWITCH.
(1000 A.H. BATT.)

DG
NDG

IN 5/C. #9CU.
PKWY. CABLE

(FIXED ARM)

KY (IN H-2 UNIT)

67

+LT.
N
-LT.
B

(4F-4B)

4 4 4

XR SXR NXR

TO "W" SIG.

FLASHER RELAY.

FLASH. CON. 400 400 N

B

R-FLASH.
L-FLASH.
-LT.

+LT. FLASH.

+LT.

R-FLASH.
L-FLASH.
COM.
3/C. #9CU. PKWY. CABLE

TO "E" SIG.

#9CU.
N B
5S.

-10V. AC.
+10V. AC.
35
P.O.R.

EX10
EN10
N

+LT.
-LT.

47

BX220
NX220

COM
3DYGP
3DD
NX220
BX220

COMMUNICATION WIRES.

BX220
NX220

#9CU.

COM.
3DYGP
3DD
NX220
BX220

#10 CU.

BX220
NX220

TO 220V. AC. POWER SOURCE.

IN 2/C. #9CU.
PKWY. CABLE.

METER & SERVICE SWITCH ON STUB POLE.

P3-103-1

P3-102-1

REVISIONS:-

1 6-11-59-GPK-O.K.-HK
2 10-1-59-WJW-O.K.-EBH.
PETT/BONE-MULLIKEN SPRING SWITCH AT NORTH END OF DOUBLE TRACK REPLACED WITH STYLE S-20. SPRING SWITCH MTCE SER DATE. 5-23-60
6-27-60-MSL-OK-RHR
4 3-9-67-DBP
5 10-26-67-L.W.K.-OK-RHR
6 6-17-68-THS-OK-EBH

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE :-

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.D.	E.C.		

T. H. DIV.

P3-102-2

28' 34' 86'

US&S CO. STYLE S-20
SPRING SWITCH NORMALLY
LINED FOR SOUTHWARD MAIN
EQUIPPED WITH F.P.L.

← TO COALTON

SOUTHWARD MAIN

PHONE

F.P.L.

NORTHWARD MAIN

861'

POWER LINE →

S.B.T. #6

STUB POLE

*B-3P

78'

AAR. FLASHING LIGHT SIGNALS
INSTALLED UNDER FEDERAL AID.
A.F.E. TH. 1993
SERVICE DATE 3-27-36.

POLE LINE

888'

*INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" (500 AH. BATTERY).

TO SIGNAL

13.5V. 0.25A.

DG
NDG

IN 5/C. #9 CU. PKWY. CABLE.

+LT.
N
B

(4F-4B)

XR SXR NXR

TO "W" SIG.

FLASHER RELAY.

FLASH. CON.

400 400

R-FLASH.
L-FLASH.
COM.

+LT. FLASH.

+LT.

-LT.

3/C. #9 CU. PKWY. CABLE.

TO "E" SIG.

3DD-S
3DD-N

2/C. #14 CU. PKWY. CABLE.

#9 CU.

55.

-10V. AC.
+10V. AC.

P.O.R. (35)

EX10
ENX10

(49)
(47)

BX220
NX220

COM
3DYGP
3DD
NX220
BX220

COMMUNICATION WIRES.

3DD-S
3DD-N BX220 NX220

BX220
NX220

TO 220V. AC. POWER SOURCE.

IN 2/C. #9 CU. PKWY. CABLE.

METER & SERVICE SWITCH ON STUB POLE.

#10 CU.

REVISIONS:

1 [illegible]

2 10-1-59 - WJW - OK. E.B.H.

PER SONI MILLIKEN SPRING SWITCH AT NORTH END OF DOUBLE TRACK REPLACED WITH STYLE S-20, SPRING SWITCH MTGE. SER DATE. 5-23-60 6-27-60 - MSL - [illegible]

P3-103-1

P3-102-1

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE :-

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.O.	E.[illegible]	H.H.K.	[illegible]

T. H. DIV.

P3-102-2

62'

86'

3719+86 C.S.

3720+25 ℄

3720+64 C.S.

POWER LINE

STUB POLE

S.B.I. #5

PHONE

TO COALTON

SOUTHWARD MAIN

NORTHWARD MAIN

1350'

1350'

78'

*B.P.

3" PIPE

AAR. FLASHING LIGHT SIGNALS
INSTALLED UNDER FEDERAL AID.
AFE. TH. 1993
SERVICE DATE 3-27-36.

POLE LINE

*INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" WITH RECTIFIER AND TEST SWITCH. (1000 A.H. BATT.)

(4F-4B)

XR

SXR

NXR

FLASHER RELAY.

FLASH. CON.

400

400

N

B

+LT. FLASH.

+LT.

TO "W" SIG.

R-FLASH.

L-FLASH.

COM.

-LT.

3/C. #9 CU. PKWY. CABLE

TO "E" SIG.

#9 CU.

55.

-18V. AC.

+10V. AC.

P.O.R.

EX10

EN410

+LT.

-LT.

BX220

NX220

COM

3DYGP

3DD

NX220

BX220

COMMUNICATION WIRES.

#10 CU.

BX220

NA220

TO 220V. AC. POWER SOURCE.

IN 2/C. #9 CU. PKWY. CABLE.

METER & SERVICE SWITCH ON STUB POLE.

P3-103-1

P3-102-1

REVISIONS:-

1 6-11-59-GBK-O.K.-JHK
2 10-1-59-WJW-OK. EGH.
PETTIBONE-MULLIKEN SPRING SWITCH AT NORTH END OF DOUBLE TRACK, REPLACED WITH STYLE S-20. SPRING SWITCH MTCE
SER DATE. 5-23-60
6-27-60-MSL-OK-DBP
4 3-9-67-DBP
5 10-26-67-L.W.K.-OK-EGH
6 6-17-68-THS-OK-EGH
7 10-15-70-MWA-OK-JHK
8 10-8-71-MWA-OK-JHK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE :-

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.D.	E.C.	JHK	

T. H. DIV.

P3-102-2

5672'

3261'

3706+36 C.S.

POLE LINE

110

← TO COALTON

16 4

← SOUTHWARD MAIN

TO CHENEYVILLE →

→ NORTHWARD MAIN

*B-IP

1350'

3D

TO SIGNAL

10V.-21.5W.

#9CU.

N3DDG

3DDG

-LT

+LT

11 C

B 12

1000 20

3DDR

ON SIG. 3D.

45° B

W 2

C

#9CU.

16P

B

3DD

3DYGP

COM.

C

NX220

BX220

TO TRACK RECTIFIER

NX220

BX220

COMMUNICATION WIRES.

COM. 3DYGP

3DD NX220 BX220

COM. 3DYGP

3DD NX220 BX220

SIGN READING "NORTHWARD TRAINS MUST NOT PASS THIS POINT WHEN WAITING FOR MEETS."

*INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" WITH RT-5 TRACK RECTIFIER AND TEST SWITCH (1000AH. BATT.)

REVISIONS:N

1 6-11-59-GPK-W.O.K.-HLK

2 10-1-59-WJW-OK EBW

3 10-8-71-MWA-OK JWG

P3-105-1

P3-102-2

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD

Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.

ELECTRIC INTERLOCKING.

REFERENCE:N

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	HLK	

T.H. DIV.

P3-103-1

5672'

2423'

838'

POLE LINE

← TO COALTON

(16) 4

← SOUTHWARD MAIN

10

TO CHENEYVILLE →

NORTHWARD MAIN →

*B-2P.

861'

← SIGN READING
"NORTHWARD TRAINS MUST NOT PASS THIS POINT WHEN WAITING FOR MEETS."

3D

TO SIGNAL

10V.-21.5W.

#9CU.

*INDICATES WIRED PER STD. DRWG. 1168, FIG. "B" WITH RT-5 TRACK RECTIFIER AND TEST SWITCH (1000AH. BATT.)

REVISIONS:-

1 6-8-59 - GPK - O.K. - HLK

2 10-1-59 - WJW - OK EBH

N3DDG

3DDG

C

B

1000 (20)

3DDR

ON SIG. 3D.

45° B

-LT

+LT

C

D

#9CU.

16P

W 2

3DD

3DYGP

COM.

C

NX220

BX220

TO TRACK RECTIFIER

NX220

BX220

COMMUNICATION WIRES.

COM. 3DYGP

3DD NX220 BX220

COM. 3DYGP

3DD NX220 BX220

P3-105-1

P3-102-2

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHENEYVILLE, ILL.
ELECTRIC INTERLOCKING.

REFERENCE:-

DATE 10-10-57

DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	HLK	

T.H. DIV.

P3-103-1

135'

1443'

COALTON.

POLE LINE

TO TERRE HAUTE

TO CHENEYVILLE

HIGHWAY

SOUTHWARD TRACK

STANDPIPE

NORTHWARD TRACK

PUMP HOUSE

POWER WIRES

REVISIONS:N

1 6-11-59 - [illegible] - O.K. - WJW

2 9-30-59 WJW - O.K. - [illegible]

3 10-15-70 - MWA - O.K. [illegible]

P3-103-1

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

COALTON, ILL.

SPRING SWITCH PROTECTION SIGNAL.

REFERENCE: N

DATE 10-18-57

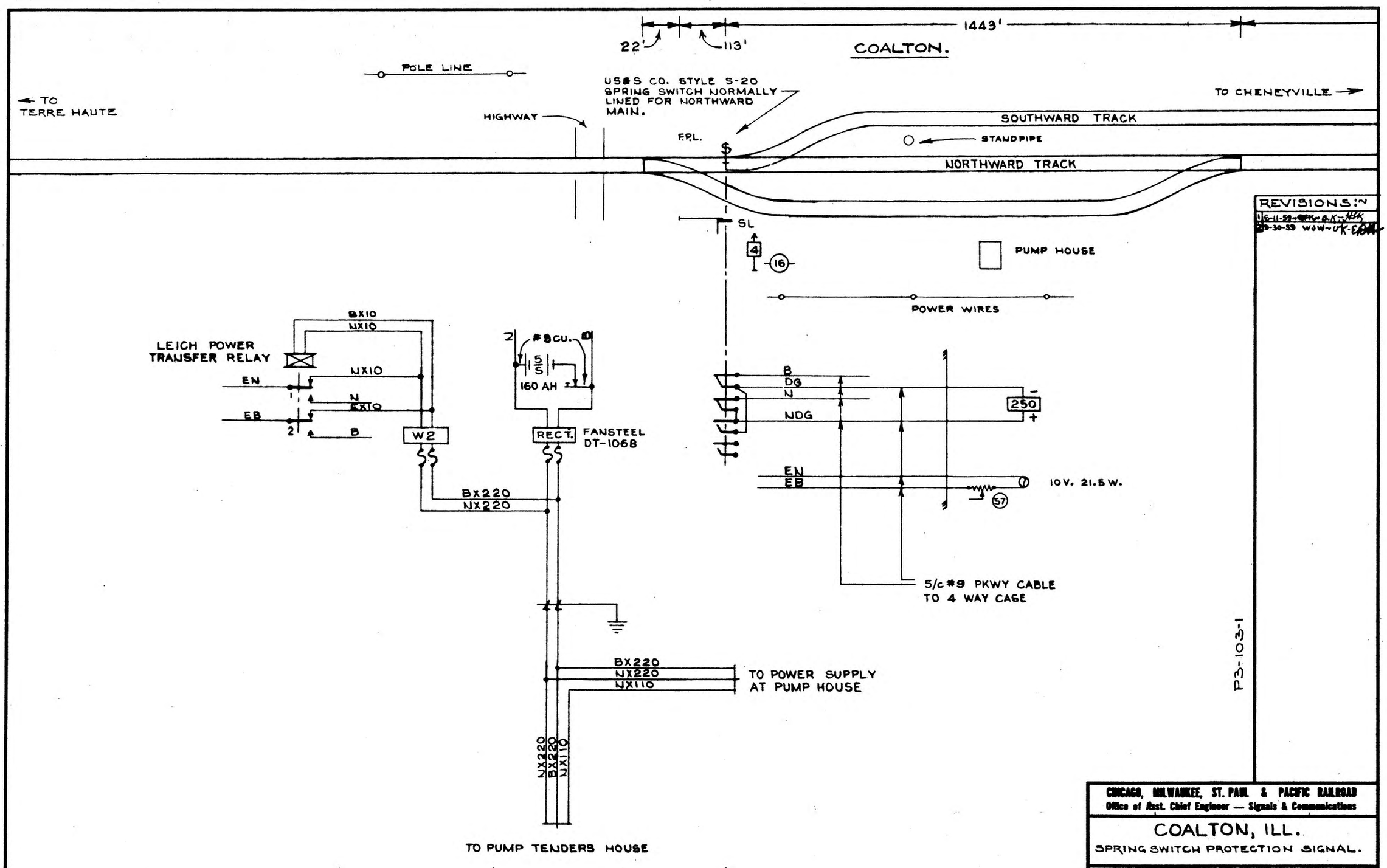
DESIGNED	DRAWN	CHECKED	CORRECT
E.C.	E.C.	[illegible]	[illegible]

T.H. DIV.

P3-105-1

22

COALTON.



REVISIONS: N

6-11-58 [illegible] A.K. [illegible]

10-30-59 W.J.W. [illegible]

P3-103-1

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

COALTON, ILL.
SPRING SWITCH PROTECTION SIGNAL.

REFERENCE: N.	DATE 10-18-57
	DESIGNED: E.C. DRAWN: E.C. CHECKED: [illegible] CORRECT: [illegible]
T.H. DIV.	P3-105-1

3380+71 C.S.

3395+71 C.S.

3396+10 S.A.R. #14

3404+38 SIG.

3412+99 C.S.

METER & SERVICE BOX ON STUB POLE

3396+49 C.S.

4" B.I. PIPE

TO GUNDY

POLE LINE

TO FAITHORN

2633'

**B-3P

*B-2P

1500'

*B-1P

78'

1650'

*B-2P

TO POWER CO'S A.C. SERVICE

METER & SERVICE BOX

3/#9 CU. PKWY CABLE

NX110
NX220
BX220

TO 8 WAY CASE

STR

XTR

NTR

X INDICATES HIGHWAY CROSSING SIGNAL EQUIPPED WITH REFLECTORIZED SIGNS AND DUPLEX (BACK TO BACK) ALTERNATELY A.A.R FLASHING LIGHT UNITS

* INDICATES WIRED PER STD. DRWG 1168, FIG. "B" WITH AUTO. TRACK RECTIFIER & TEST SWITCH (1000 A.H. BATT.)

** INDICATES WIRED PER STD DRWG 1168, FIG. "B" WITH TRACK RECTIFIER & TEST SWITCH (1000 A.H BATT)

JOHANNOTT, ILL DRWG *8014

TO 4 WAY CASE

NX220
BX220

10 CU.

BX220
NX220

COMM. WIRES

NX220
BX220

NX110

BX220
NX220

BX110
NX110

#10 CU.

10Y - 21 SW

NXE
BXE
W-2

NX110
BX110

POLE TYPE ARRESTER

TO 2 WAY CASE

NX110
BX110

#10 CU.

BX110
NX110

REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

HEATON, ILL.
(JOHANNOTT, ILL.)
HIGHWAY CROSSING SIGNAL CIRCUITS

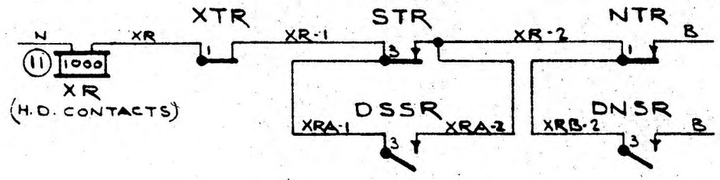
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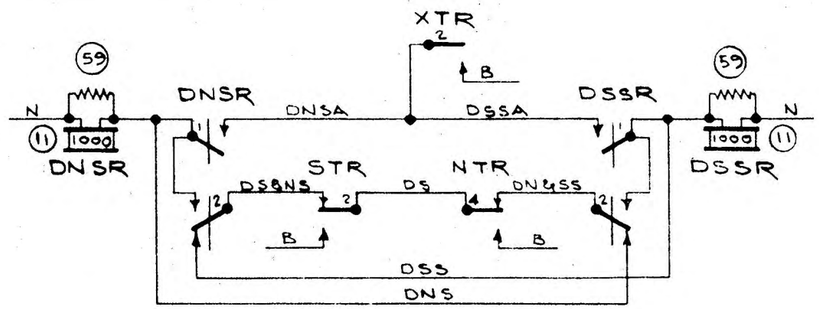
DATE 11-14-60

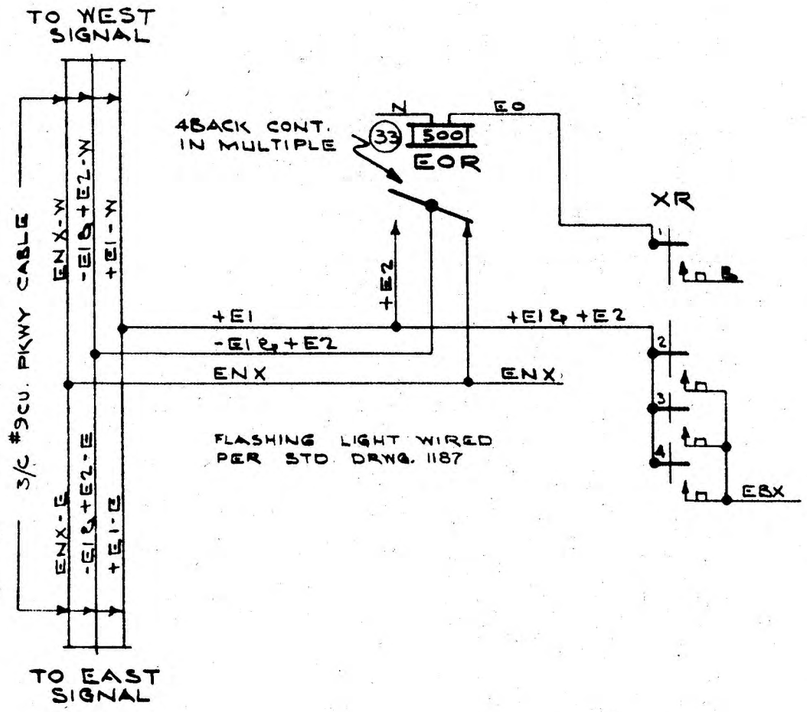
DESIGNED	DRAWN	CHECKED	CORRECT
RJB	RJB	EOH	1/12

T. H. DIV.

P3-108-1







REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

HEATON, ILL
JOHANNOTT, ILL
HIGHWAY CROSSING SIGNAL CIRCUITS
S.A.R. #14

REFERENCE
P3-108-1

DATE 11-14-60

DESIGNED	DRAWN	CHECKED	CORRECT
RJB	RJB	ECH	LAR

T.H. DIV.

P3-108-1A

24

115 | 3070+46 | 3084+46 | 119 | 3070+46 | 114

A.A.R. FLASHING LIGHT SIGNAL SIMILAR TO STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS & BUILDINGS, DIVISION OF HIGHWAYS. PER STANDARD 1900.

TO W. CLINTON ← | B-3P* | 1367' | B-2P* | 66' | S.B.I. | 1367' | B-3P* | → TO CHICAGO

(7) DN-11, 4G, 4F-4B
(33) FN-16
(34) DX-13
(35) ANL-30
(43) W-10
(49) RX-21

* INDICATES RT-5 TRACK RECTIFIER PER STD. #1168 FIG. 'B'.

TO TRACK RECTIFIER

(43) W-10 TRANSFORMER

(35) POR — EX — EBX-10 — TEST BUTTON — *9 CU. — 7 5

(49) RX-21 RECT.

NX10 BX10

BX110 NX110

4 (7) MXR

SXR-1 SXR

4 SXR — 4 (34) NXR

EOR EOR

B

EBX-10

+E1&+E2

500 500 (33) EOR

C

-E1&+E2 +E1

3 COND #9 CU. PKWY. CABLE TO WEST SIG.

C-W +E1-W -E1&+E2-W

C-E +E1-E -E1&+E2-E

3 COND #9 CU. PKWY. CABLE TO EAST SIG.

TO RT-5 TRACK RECTIFIER

3/C #14 PWC.

#10 CU.

BX110 NX110

NX110 BX110

TO RT-5 TRACK RECTIFIER

3/C #14 PWC.

#10 CU.

BX110 NX110

NX110 BX110

P3-116-1

REVISIONS
11-17-GCAR/BWK/KEW.

M.I.A. 5054
SERVICE DATE, 2-18-48.
FAGH 219 (16)

REFERENCE, P3-114-1A

C. M. ST. P. & P. RR.
TELEGRAPH-SIGNAL DEPT.

ALVIN (KNOWLES), ILL.

HIGHWAY CROSSING SIGNALS CIRCUITS

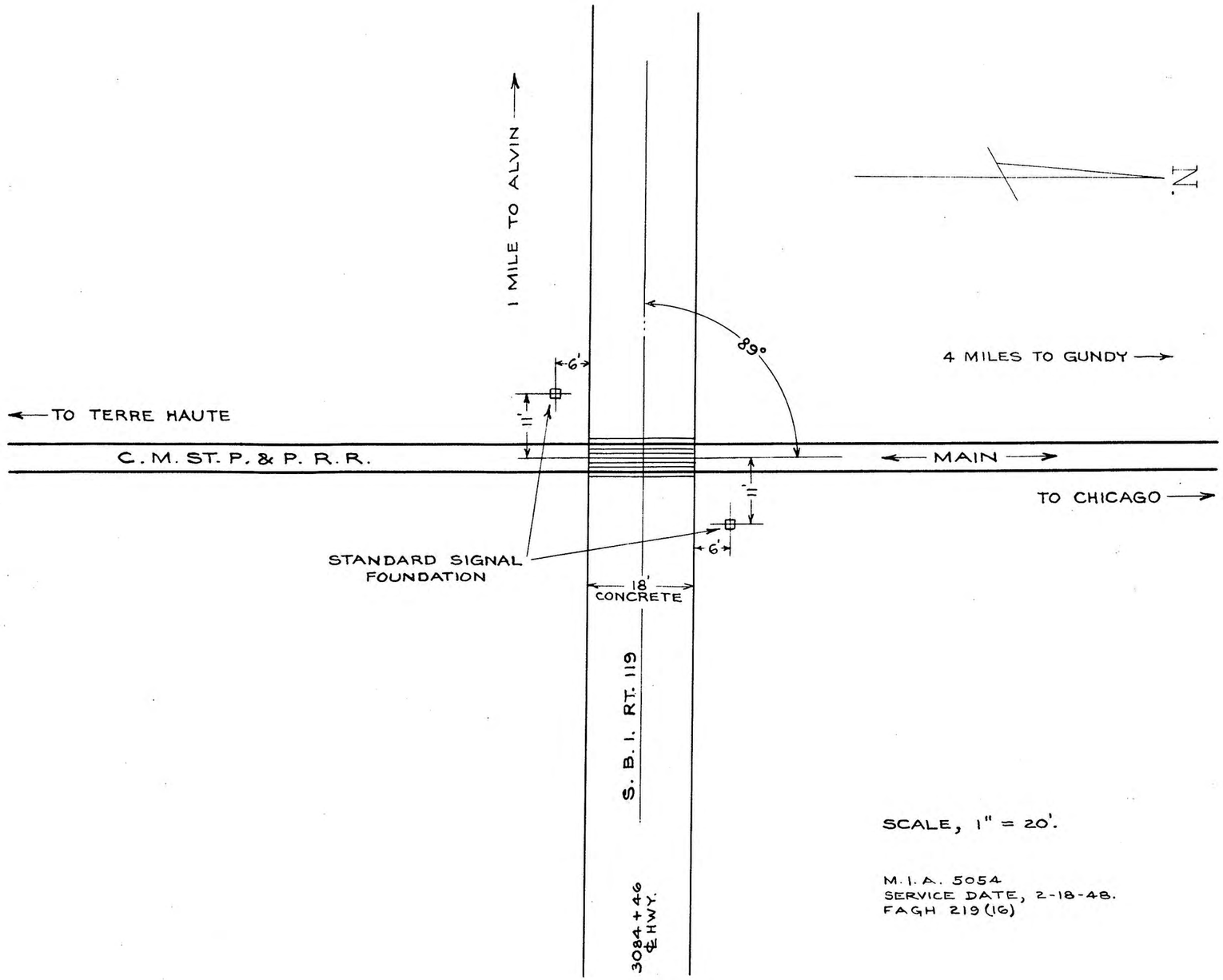
DATE 3-14-46

R. B. Stoler
SUPT. TELEG. & SIGNALS

DRAWN	TRACED	CHECKED	CORRECT
R.C.K.	R.C.K.	[illegible]	[illegible]

TERRE HAUTE DIVISION

P3-114-1



SCALE, 1" = 20'.

M.I.A. 5054
SERVICE DATE, 2-18-48.
FAGH 219(16)

REVISED

C. M. ST.P. & P. RR.
TELEGRAPH-SIGNAL DEPT.

ALVIN (KNOWLES), ILL.
S.B.I. RT. 119 CROSSING

REFERENCES:
CIRCUITS, P3-114-1

DATE 8 18 47

DRAWN	TRACED	CHECKED	CORRECT
FHm	FHm	Hurd	PHR

T. H. DIV.

P3-114-1A

2988+04 C.S.

3004+54 C.S.

3004+93 & S.A.R. #15

3005+32 C.S.

3021+82 C.S.

METER & SERVICE BOX ON STUB POLE

4" B.I. PIPE

POLE LINE

TO STARR

TO FAITHORN

*B-2P — 1650' — *B-1P — 78' — *B-2P — 1650' — *B-2P

INDICATES HIGHWAY CROSSING SIGNAL EQUIPPED WITH REFLECTORIZED SIGNS & DUPLEX (BACK TO BACK) ALTERNATELY A.A.R. FLASHING LIGHT UNITS

* INDICATES WIRED PER STD. DRWG 1168, FIG. "B" WITH AUTO. TRACK RECTIFIER & TEST SWITCH (1000 A.H. BATT.)

STR — XTR — NTR

TO 110 V. AC POWER

METER & SERVICE BOX

TO 8 WAY CASE IN 3/C #9 CU. PKWY CABLE

RACO 1000 CPS OSING DEVICE CODE • •

A-TE&AS

XTR

N

B

L1 L2

98-A PROTECTOR

F1105 FILTER

TO DISP. PHONE

TO 2 WAY CASE

NX110 BX110

#9 CU.

COMM. WIRES

#10 CU.

TO 2 WAY CASE

NX110 BX110

#10 CU.

REVISION

12-29-60 R.J.B. OK

1-23-61 R.J.B. OK

7-12-65 W.d.W. OK

P3-114-1

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

STARR, ILL

HIGHWAY CROSSING SIGNAL CIRCUITS
S.A.R. #15

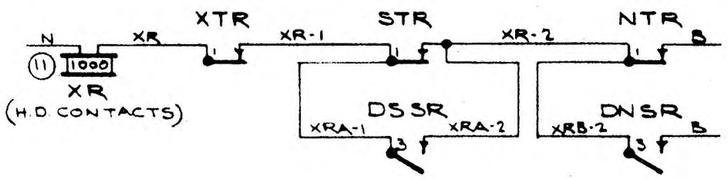
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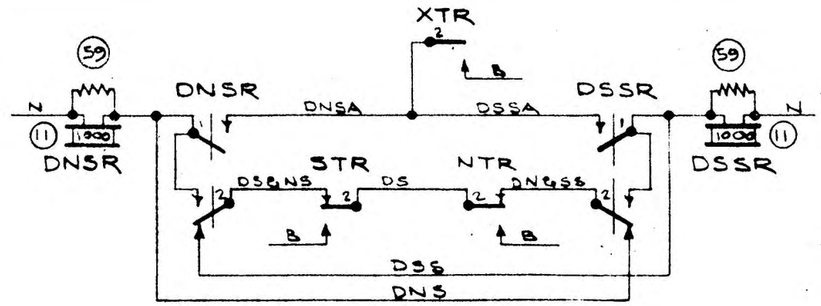
DATE 11-17-60

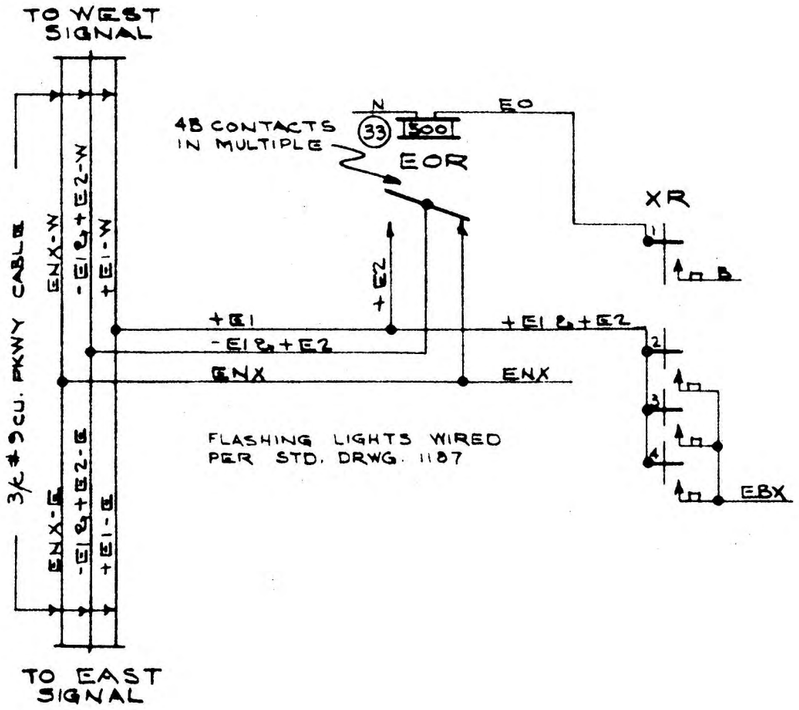
DESIGNED	DRAWN	CHECKED	CORRECT
R.J.B.	R.J.B.	E.O.K.	W.K.

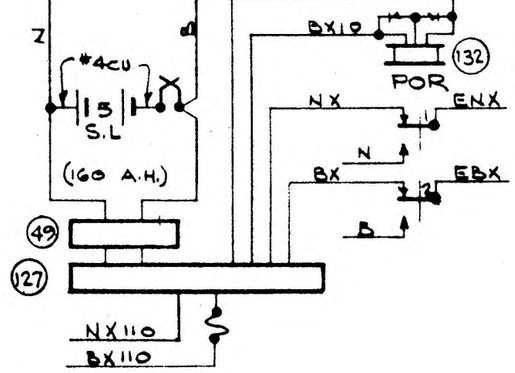
T. H. DIV.

P3-116-1









REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

STARR, ILL

HIGHWAY CROSSING SIGNAL CIRCUITS
S.A.R. #15

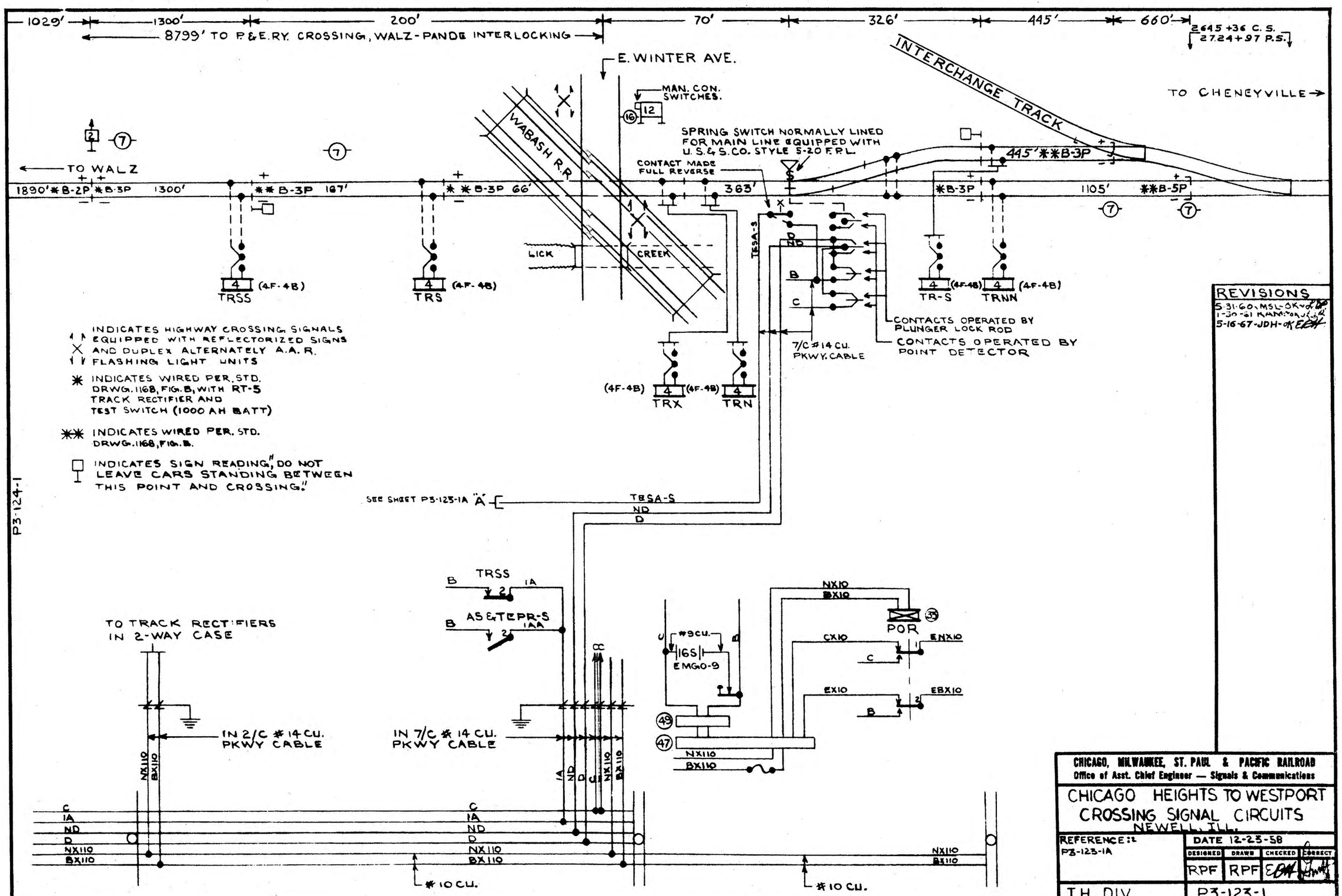
REFERENCE:

DATE 11-17-60

DESIGNED	DRAWN	CHECKED	CORRECT
RJB	RJB	EBH	WTR

T.H. DIV.

P3-116-1A



REVISIONS
5-31-60 MSL-OK v.d.
1-30-61 KAM-OK v.d.
5-16-67 JDH-OK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHICAGO HEIGHTS TO WESTPORT CROSSING SIGNAL CIRCUITS NEWELL, ILL.

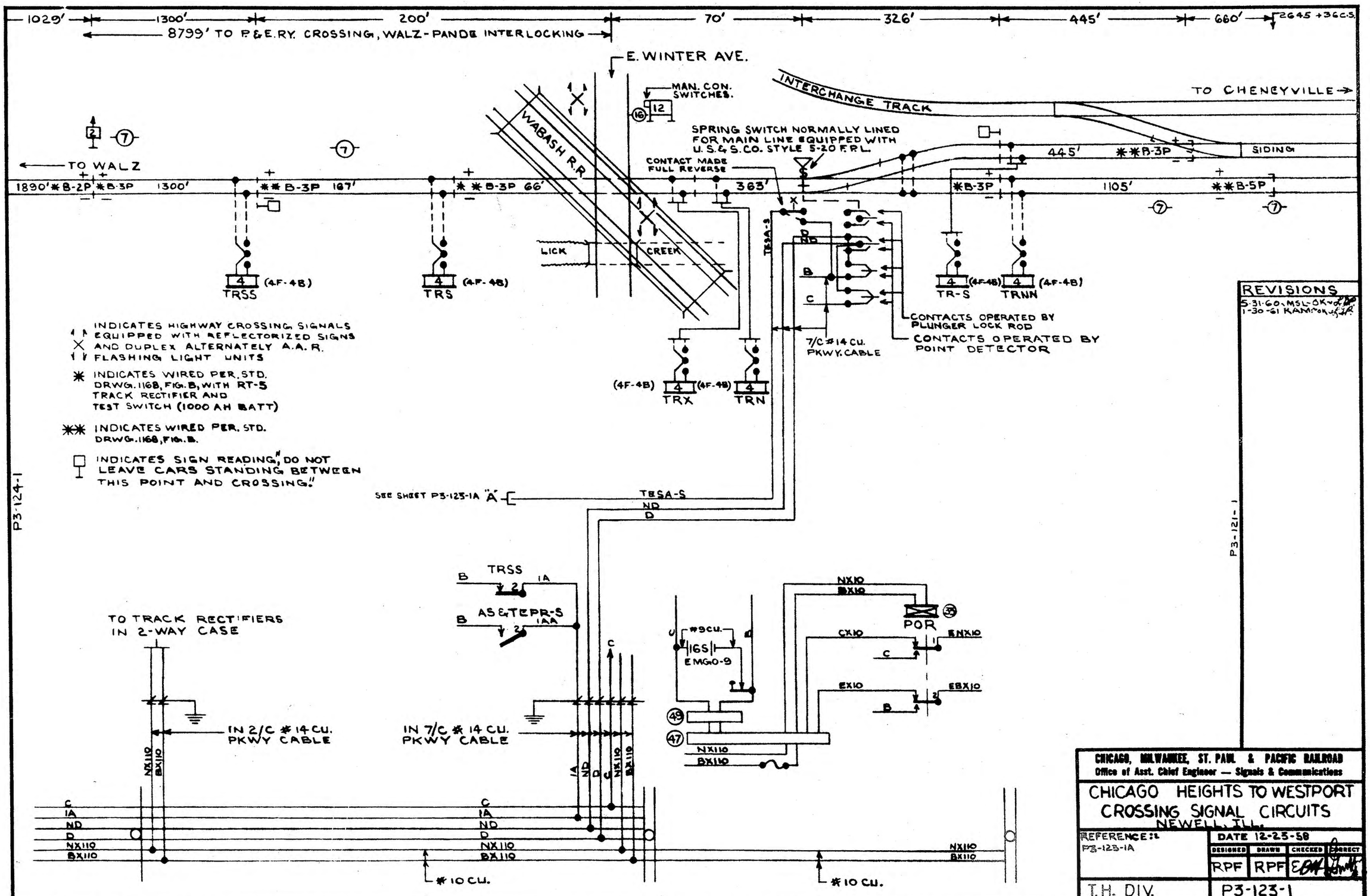
REFERENCE: P3-123-1A

DATE 12-23-58

DESIGNED	DRAWN	CHECKED	CORRECT
RPF	RPF	EBM	

T.H. DIV.

P3-123-1



P3-124-1

P3-121-1

REVISIONS
5-31-60 MSL-OK
1-30-61 KAM-OK

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHICAGO HEIGHTS TO WESTPORT CROSSING SIGNAL CIRCUITS
NEWELL, ILL.

REFERENCE: P3-123-1A

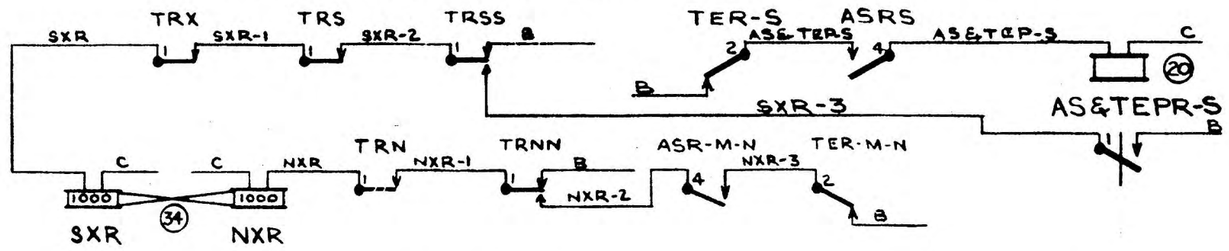
DATE 12-23-58

DESIGNED	DRAWN	CHECKED	CORRECT
RPF	RPF	EBM	

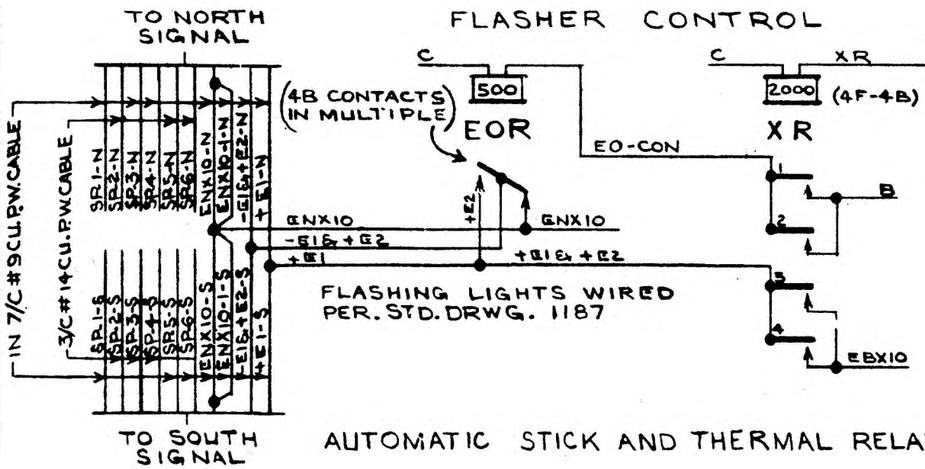
T.H. DIV.

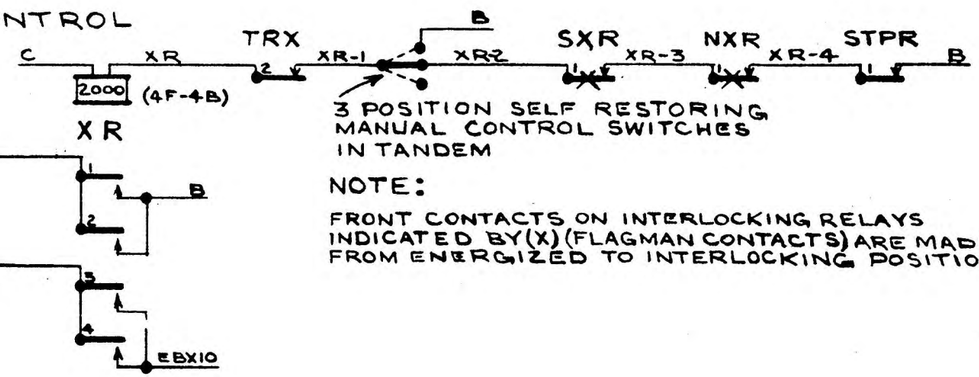
P3-123-1

INTERLOCKING RELAY



FLASHER CONTROL

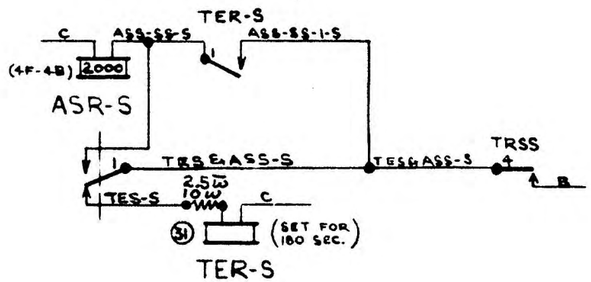


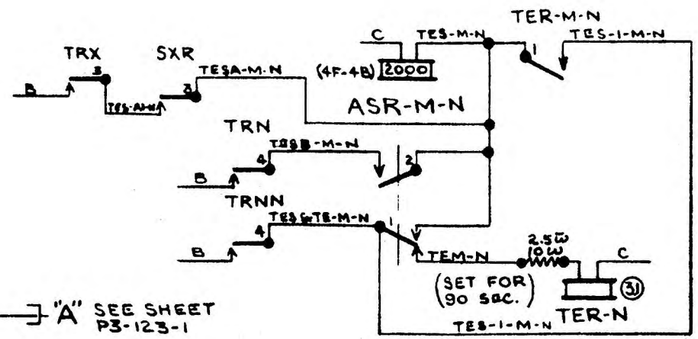


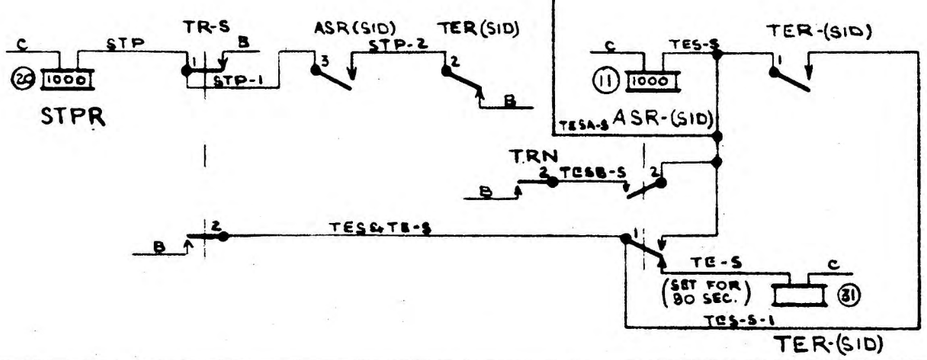
NOTE:

FRONT CONTACTS ON INTERLOCKING RELAYS INDICATED BY (X) (FLAGMAN CONTACTS) ARE MADE FROM ENERGIZED TO INTERLOCKING POSITION

AUTOMATIC STICK AND THERMAL RELAYS







REVISIONS
1-12-67 -- N.C.S. ERH

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHICAGO HEIGHTS TO WESTPORT CROSSING SIGNAL CIRCUIT
NEWELL, ILL.

REFERENCES:

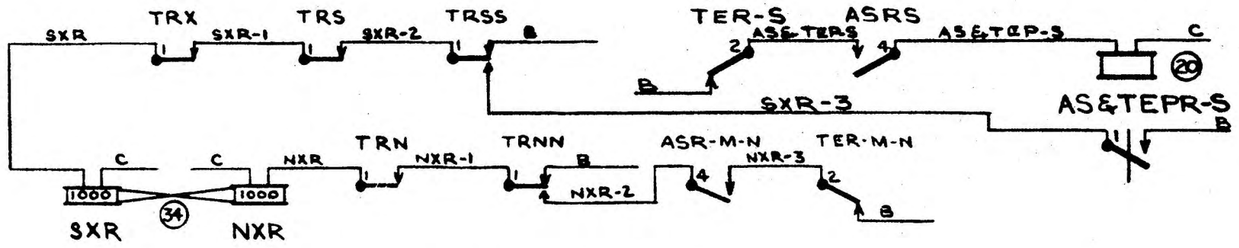
DATE 12-23-58

DESIGNED	DRAWN	CHECKED	CORRECT
RPF	RPF	ERH	

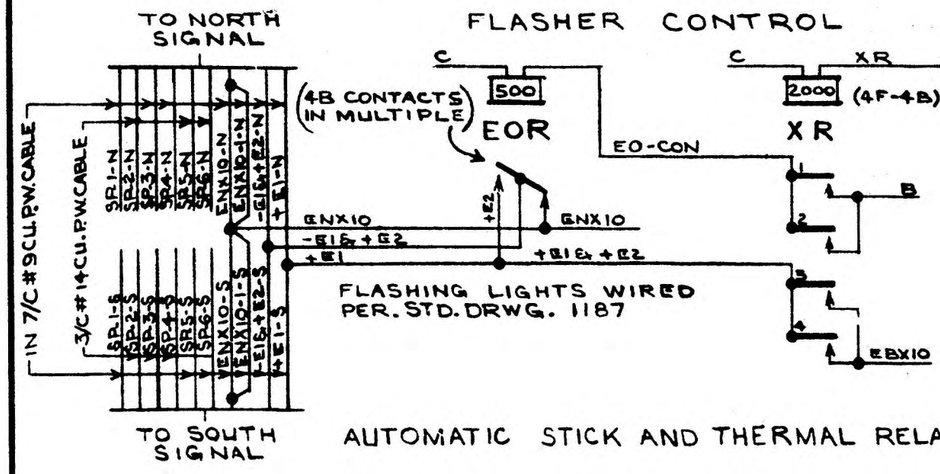
T.H. DIV.

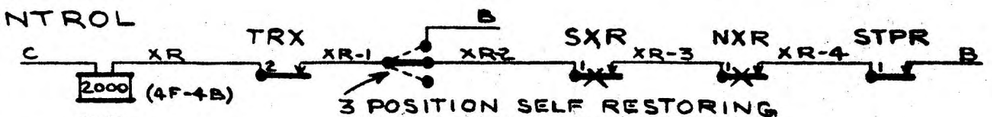
P3-123-1A

INTERLOCKING RELAY



FLASHER CONTROL

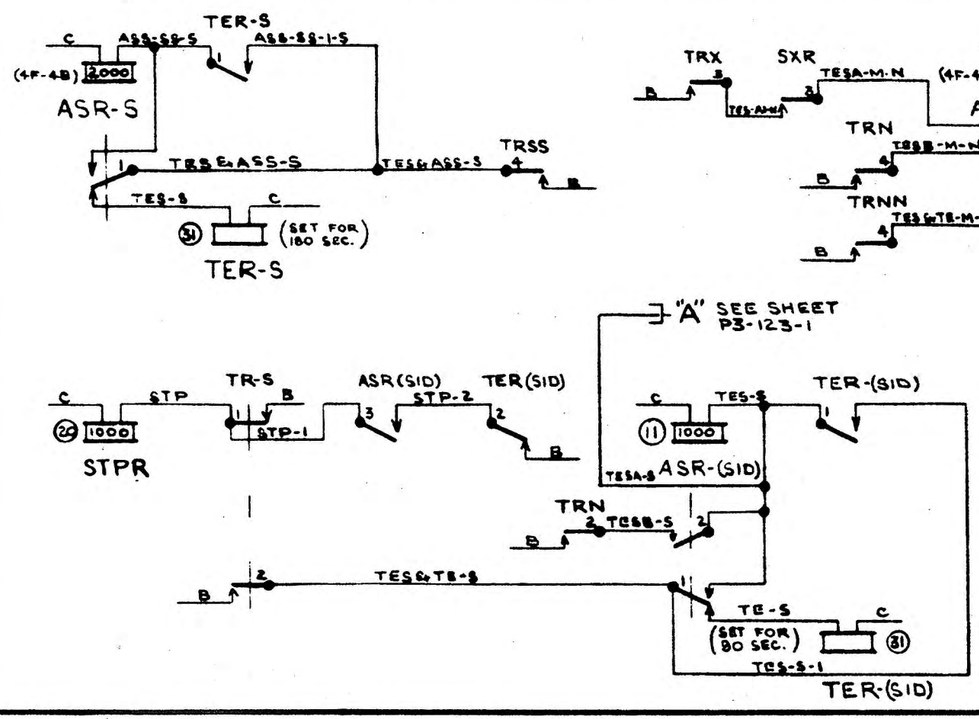




NOTE:

FRONT CONTACTS ON INTERLOCKING RELAYS INDICATED BY (X) (FLAGMAN CONTACTS) ARE MADE FROM ENERGIZED TO INTERLOCKING POSITION

AUTOMATIC STICK AND THERMAL RELAYS



REVISIONS

CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD
Office of Asst. Chief Engineer — Signals & Communications

CHICAGO HEIGHTS TO WESTPORT CROSSING SIGNAL CIRCUIT
NEWELL, ILL.

REFERENCES:

DATE 12-23-58

DESIGNED	DRAWN	CHECKED	CORRECT
RPF	RPF	ECH	

T.H. DIV.

P3-123-1A