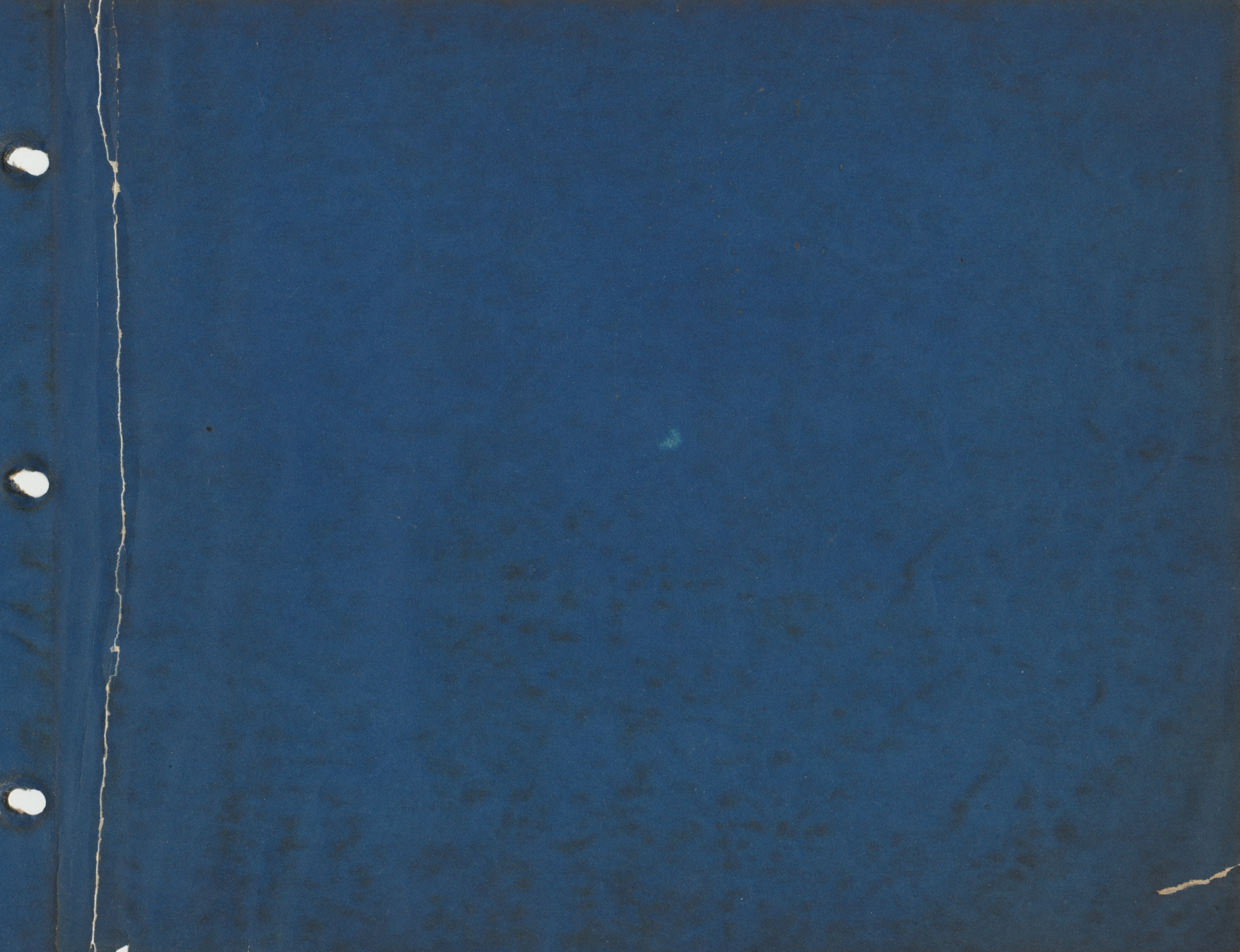


CHICAGO RAILWAY SIGNAL & SUPPLY CO.

CHICAGO, ILL.



CHICAGO RAILWAY SIGNAL & SUPPLY COMPANY

SECTION ONE- SIGNALS

- Part 1 - Signal Complete
- " 2 - Signal Heads & Sockets
- " 3 - Signal Head Lens Units
- " 4 - Signal Instrument Cases

SECTION TWO- SWITCH CIRCUIT CONTROLLERS

- Part 1 - Style D Switch Circuit Controllers
- " 2 - Vertical Rotary

SECTION THREE - RELAYS

- Part 1 - Style R Neutral Relay 4 Pts
- " R2 " " 6 Pts
- " R3 " " 8 Pts

- Part 2- Style S Polarized 2 P/4N Pts
- " S2 " 4 P/4 N "

- Part 3- I L Interlocking relay 8 Pts
- " 4- FR Flashing Relay 8 Pts

SECTION FOUR- HIGHWAY CROSSING SIGNAL

- Part 1 - Flashing Signal
- " 2 - Flashing and Stop Signal

C.R.S.

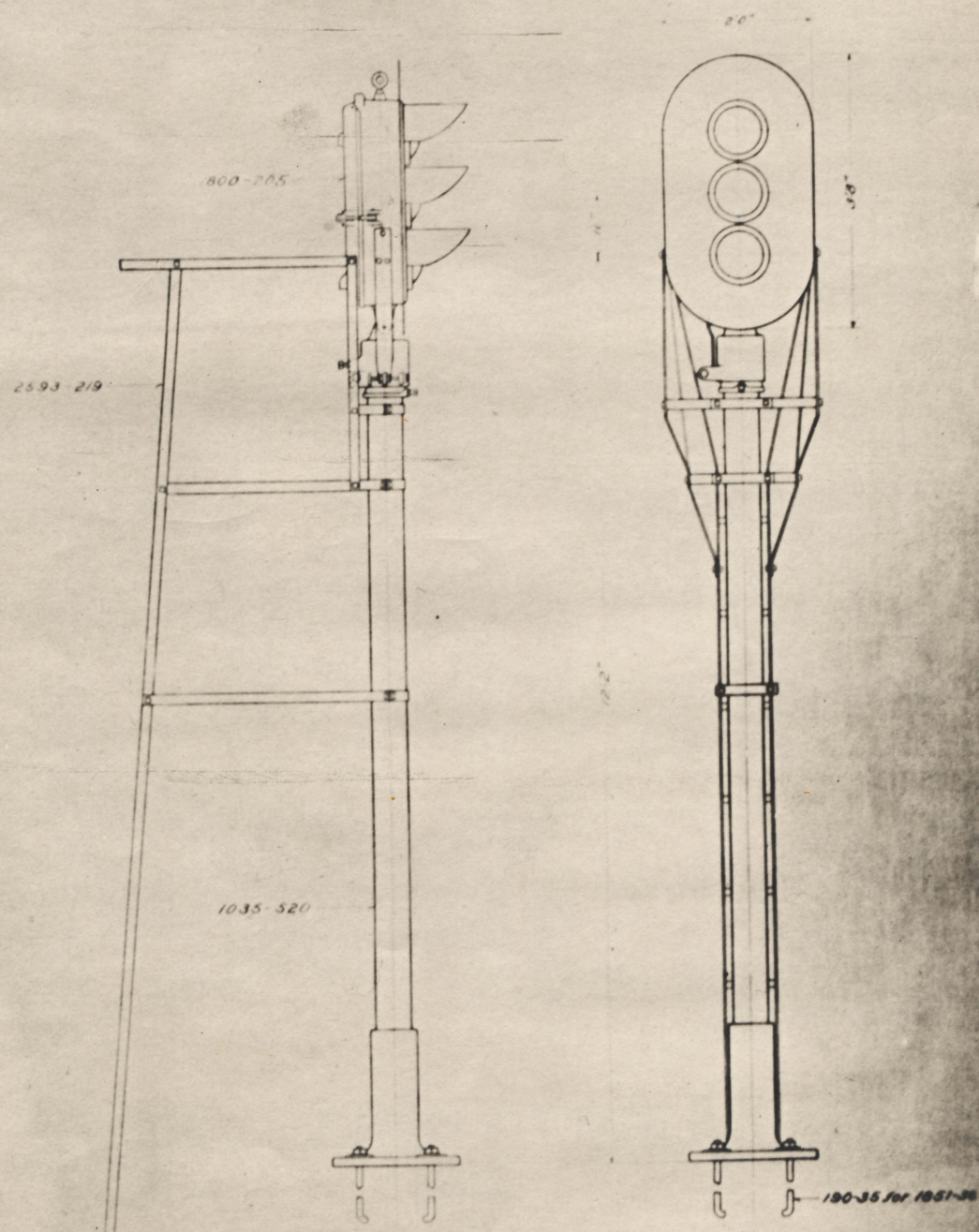
ASSEMBLY LIST 1851-36 To 39 A.L. 1852-7 To 10				TITLE SIGNAL COMPLETE, VERTICAL INDICATION, CHICAGO DOUBLET LENS UNIT, ADJUSTABLE FOCUSING TYPE.	
SHEET NO. 1	CHECKED BY <i>G. Perkins</i>	DATE 8/16/27		APPROVED _____	
CONT. ON SHEET NO. 2	DRAWING NO. OR OPERATION CARD		CAT. NO.	NO. REQ.	CHICAGO RAILWAY SIGNAL & SUPPLY CO.
					DESCRIPTION
	1851-36/37	1	3	Indication Signal Complete	
	" -38/39	1	3	" " " with inst. Case	
	1852-9/10	1	6	" " "	
	" -7/8	1	6	" " " " " "	
	1800-186/7	1	3	" " Head Complete only	
	" -205/6	1	3	" " " " with Background	
	1807-163/4	1	2	" " " " only	
	" -187/8	1	2	" " " " with background	
	" -194/6	1	2	" " " " with background and bracket.	
	1808-2)	1	1	" " " Complete only	
	1808-23/4)	1	1	" " " " with background and bracket	
	1806-219	1		Socket Complete for top of 5" Pole	
	1806-425	1		Lens Unit Complete	
	" -286	1		Lens Unit Lamp Bracket	
	2585-128	1		Sig. Lamp Bulbs, Volts & Watts to be specified on order.	
	1806-436	1		Sig. Focus Finder, See Bulletin No. 22 for Details.	

REVISIONS

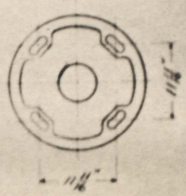
ASSEMBLY LIST 1851-36 To 39 A.L. 1852- 7 To 10 A.L.			TITLE SIGNAL COMPLETE VERTICAL INDICATION CHICAGO DOUBLET LENS UNIT ADJUSTABLE FOCUSING TYPE
SHEET NO. 2	CHECKED BY <i>S. Roberts</i>	DATE 8/15/27	APPROVED—
CONT. ON SHEET NO.			CHICAGO RAILWAY SIGNAL & SUPPLY CO.
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	DESCRIPTION
			DETAIL LIST OF MASTS, LADDERS ETC.
1035-520	1		Mast Complete 5"x 5-9/16"x 10'9-1/2" and Base #910 (10'11") for Signal 1851-37
1035-522	1		Mast Complete 5"x 5-9/16"x 5'8" and Base #2580-39 (5'10") for Signal 1851-39
2593-219	1		Ladder & Platform Complete for Signal 1851-37 to 1851-39
1052	1		Ladder Foundation
1035-539	1		Mast Complete 5"x 5-9/16"x 20'9" and Base 910(20'11") for Signal 1852-10
1035-537	1		Mast Complete 5"x 5-9/16"x 15'8" and Base 2580-39 (15'10-3/8") for Sig.1852-8
2593-245	1		Ladders & Platforms Complete for Signal #1852-7 to 10
			Cable Outlet Complete
152-40	1		" " " 9-1/2" Pipe
152-41	1		" " " 14" Pipe
381-1 to 3	1		Instrument Case 5'0-3/4" High
381-6 to 7	1		" " 5'0-3/4" "
379-6 to 8	1		" " 4'4-3/4" "
315-1 to 2	1		" " 3'4-3/4" "
315-3 to 5	1		" " 3'4-3/4" "

REVISIONS

1851-36 & 37. With Anchor Bolts
 1851-37 & 38. Without Anchor Bolts

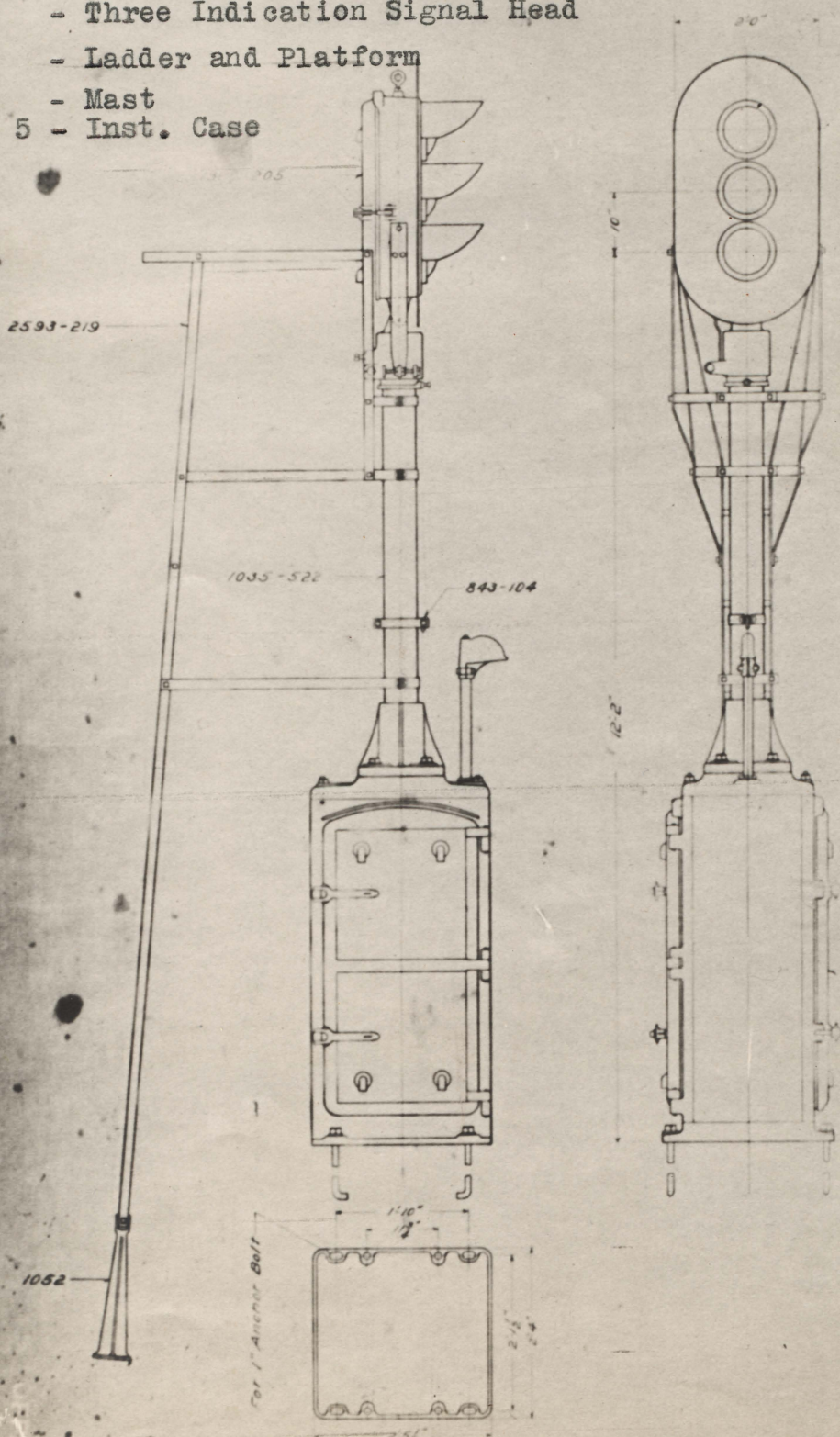


- #1851-36&37- Three Indication Signal Comp.
- #1800-205 - Three Indication Head Comp.
- #2593-219 - Ladder & Platform
- #1035-520 - Mast.



Signal Unit Installation
 Color Light Change Signal
 1851
 36&37

- #1851-38&39 - Three Indication Signal Comp.
- #381-1 to 3 - Instrument Case
- #1800-205 - Three Indication Signal Head
- #2593-219 - Ladder and Platform
- #1035-522 - Mast
- 381 -4 & 5 - Inst. Case

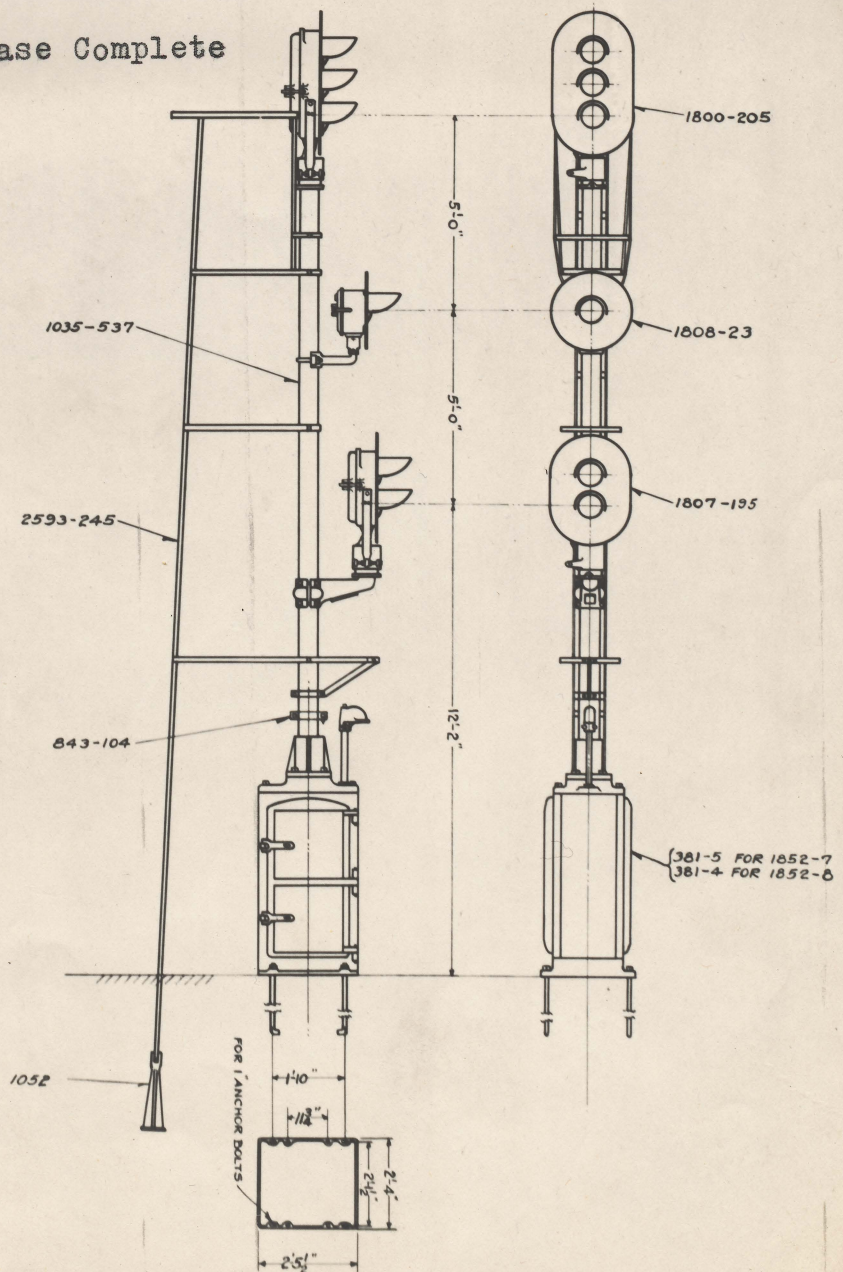


381-4 & 5 WITH ANCHOR BOLTS
 381-1 TO 3 WITH ANCHOR BOLTS

GENERAL DRAWING
 Single Unit 3-Indication Cab Unit
 with Ground Signal Lamp
 with Cab & Signal Lamp
 1851
 381-4 & 5

- 1752-7 & 8 Six Indication Signal Complete
- 1800-205 Three " " Head
- 1808-23 One " " "
- 1807-195 Two " " "
- 2593-245 Ladder & Platform
- 1035-539 Mast
- 381-4 & 5 Inst. Case Complete

1852-7 A.L.
1852-8 A.L.
WITH ANCHOR BOLTS.
WITHOUT ANCHOR BOLTS.



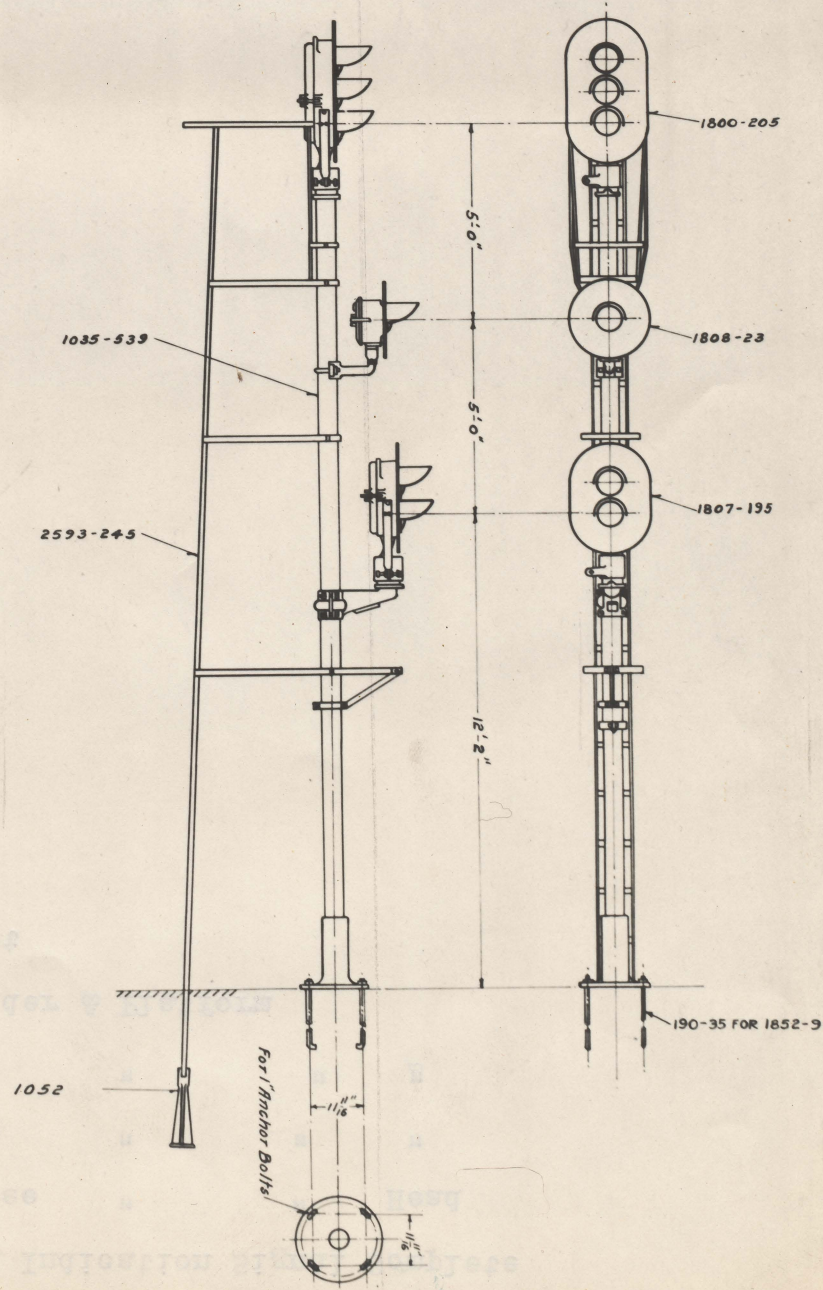
PROT. PAT. OFF. REFERENCE
 THREE UNIT COLOR LIGHT SIGNAL.
 THREE, ONE & TWO INDICATION UNITS.
 MOUNTED ON RELAY AND BATTERY CASE.
 SCALE 1/2"=1'-0"
 CHICAGO RAILWAY SIGNAL & SUPPLY CO.
 CHICAGO, ILL.
 DRAWN BY *W. H. Smith* APPROVED BY *M. J. [Signature]*

1852
7 & 8
B

REVISIONS
 1852-7
 1852-8
 1852-9
 1852-10
 1852-11
 1852-12
 1852-13
 1852-14
 1852-15
 1852-16
 1852-17
 1852-18
 1852-19
 1852-20
 1852-21
 1852-22
 1852-23
 1852-24
 1852-25
 1852-26
 1852-27
 1852-28
 1852-29
 1852-30

1832-9 & 10	Six Indication Signal Complete
1800- 205	Three " " Head
1808 - 23	One " " "
1807- 195	Two " " "
2593-245	Ladder & Platform
1035- 539	Mast

1832-9 & 10
1852-10 R.L. With Anchor Bolts
Without Anchor Bolts



REVISED
REF. 3815

GEN'DWG
Three Unit Color Light Signal.
Three, One and Two Indication Units.

SCALE 1"=10'

CHICAGO RAILWAY SIGNAL & SUPPLY CO.
SALES OFFICE
CHICAGO, ILL.

APPROVED BY
CHICAGO R.R. SIGNAL DEPT.

1852
& 10
Ⓟ

TRB
1852-9 & 10
See Ref 3815
Approved by
1/27/27

1852-9 & 10 Six Indication Signal Complete

1800- 205 Three " " Head

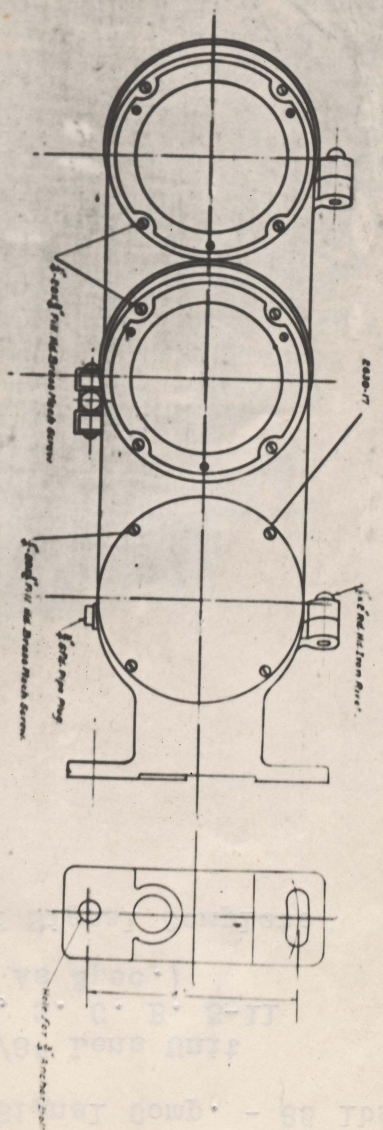
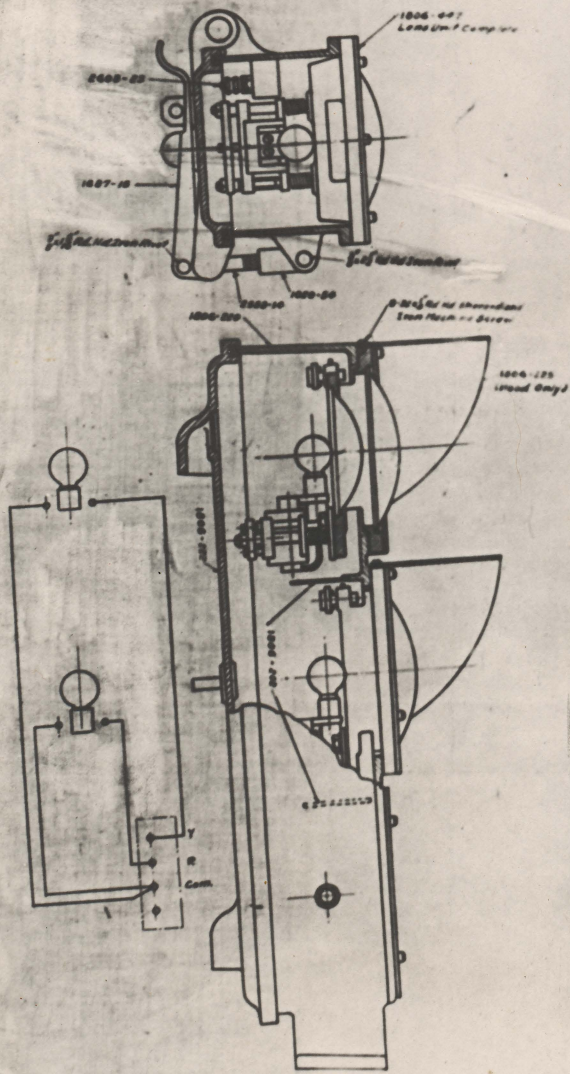
1808- 23 One " " "

1807- 195 Two " " "

2593-245 Ladder & Platform

1035-539 Mast

1832-10



1832-10	SECTION 1	PAGE NO.	OVER
---------	-----------	----------	------

1832
10

SECTION 1

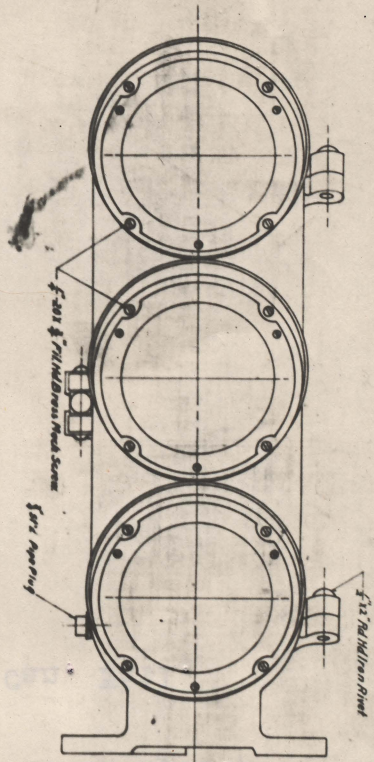
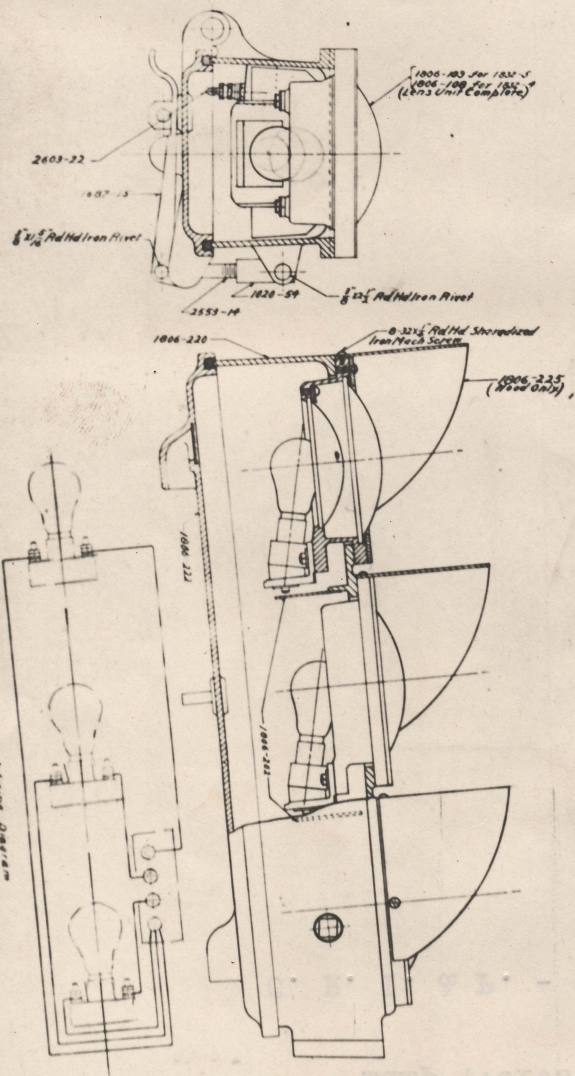
PAGE NO.

OVER

#1832-10 Two Indication Dwarf Signal Comp. - 85 lbs.

#1806-447 Chicago Refractor 6-3/8" Lens Unit
Focusing Lamp Bracket, S. C. B. S-11
Lamp (Volts and Watts As Spec.)

#1832-11 Three Indication Dwarf Signal Complete



Approved: _____
 Date: _____
 Longfellow's Inc. 1000
 1632

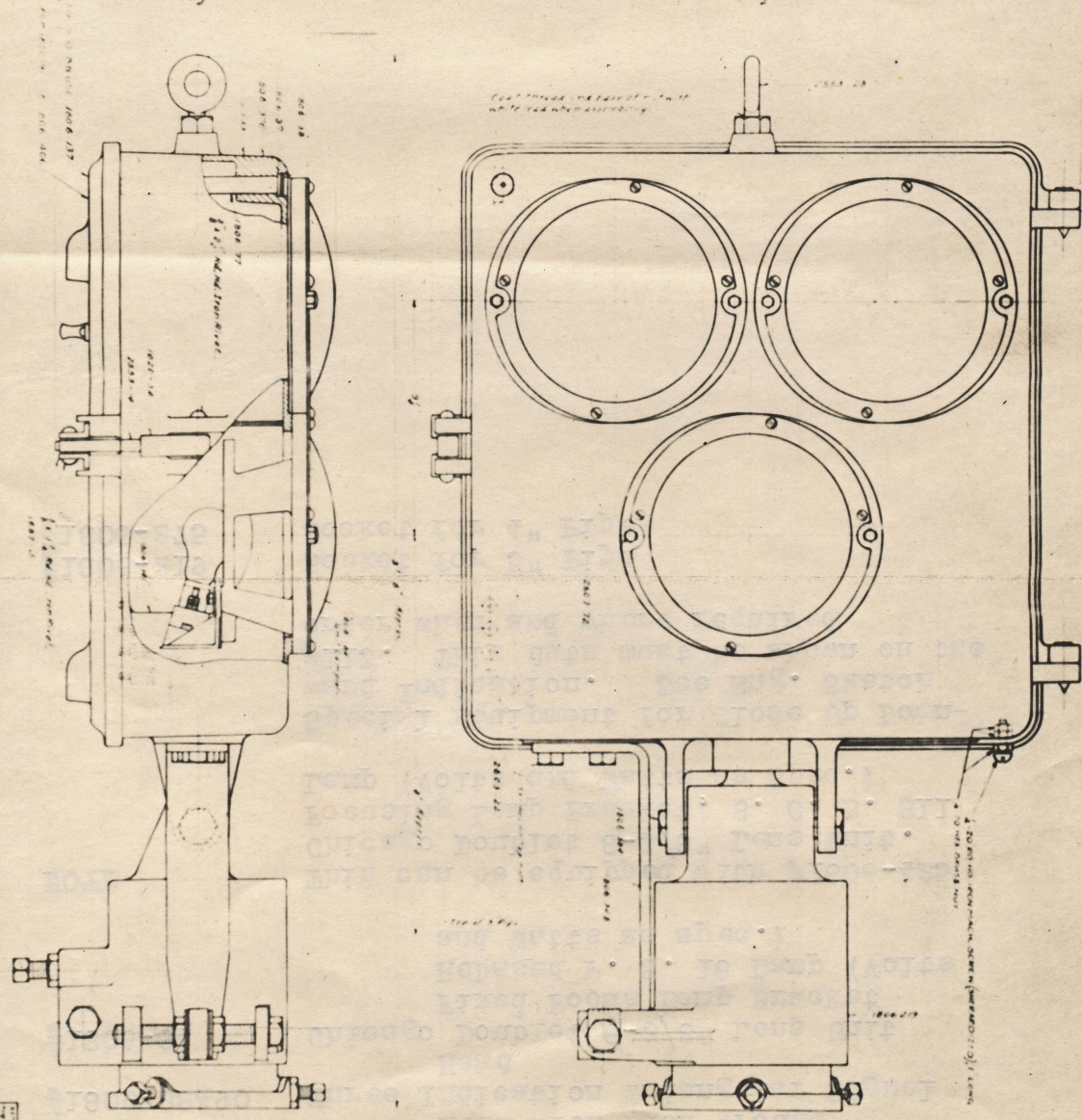
#1832-4 Three Indication Dwarf Signal Complete - 85 lbs

#1806-108 Chicago Refractor 6-1/2" Lens Unit
Fixed Focus, Rebased P. S. 16 Lamp
(Volts and Watts As Spec.)

#1832-5 Three Indication Dwarf Signal Comp.
Chicago Refractor, 6-1/2" Lens
Unit, Fixed Focus, S. C. B. S-11
Lamp (Volts and Watts As Spec.)

C. R. I. & P. - C&NW - Can, Natl.

1000-88 H.L. for mounting on bracket
 1000-20 H.L. for mounting on top of 1000-88 H.L.



1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.
1000-88 H.L.	1000-20 H.L.

#1800-133 Three Indication Triangular Signal
Head with Back Ground - 300 lbs
#1800-134 Two Indication Triangular Signal
Head with Back Ground
#1800-88&90 Three Indication Triangular Signal
Head
#1806-84 Chicago Doublet 8-3/8" Lens Unit
Fixed Focus Lamp Bracket
Rebased P. S. 16 Lamp (Volts
and Watts as spec.)

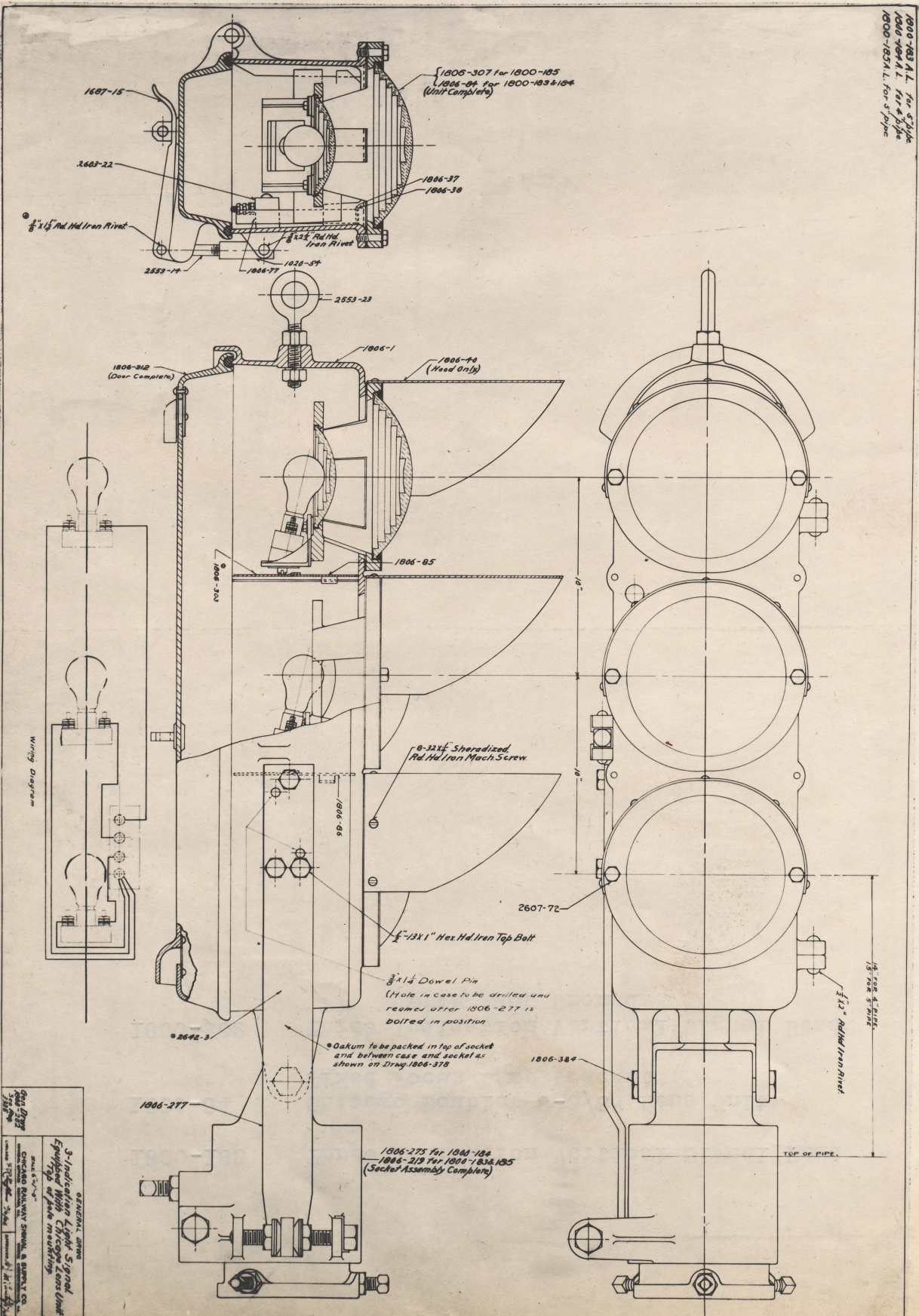
NOTE

This can be equipped with #1806-425
Chicago Doublet 8-3/8" Lens Unit.
Focusing Lamp Bracket, S. C. B. S11
Lamp (Volts and Watts as Spec.)

Special Equipment for Close Up Down-
ward Indication. See Eng. Sketch
#113. This data must be shown on the
order when and where required

#1806-219 Socket for 5" Pipe
#1806-275 Socket for 4" Pipe

1800-183 A.L. for 3 1/2" dia
 1800-184 A.L. for 4 1/2" dia
 1800-185 A.L. for 5 1/2" dia



CHICAGO RAILWAY SIGNAL & SUPPLY CO.
 3-Indicator Light Signal
 Equipped With Chicago Lens Unit
 Top of case markings

1800
 183
 185

SECTION 1 PART 2

OVER

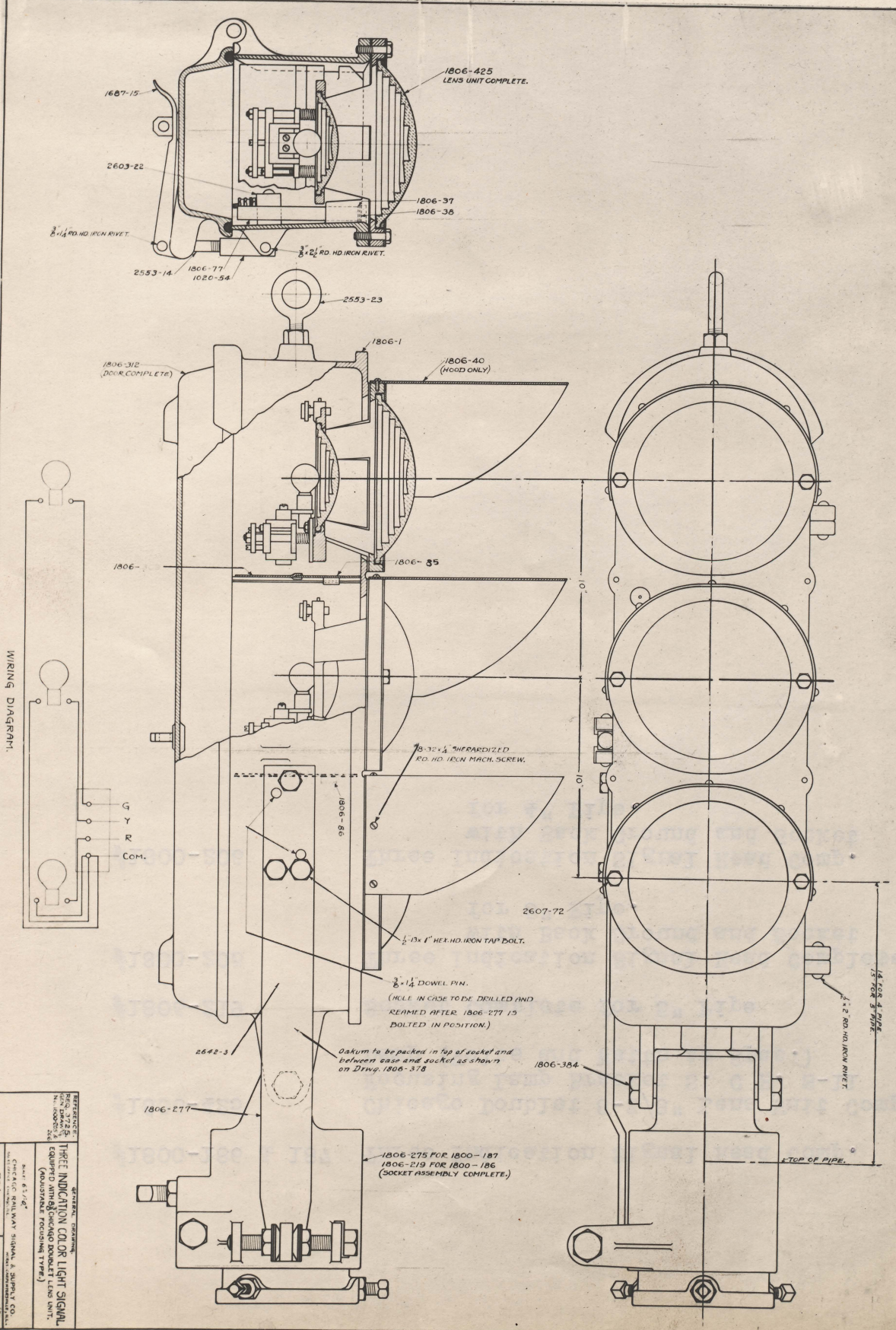
REVISIONS
 1800-183 A.L. for 3 1/2" dia
 1800-184 A.L. for 4 1/2" dia
 1800-185 A.L. for 5 1/2" dia

1800-183 Three Indication Vertical Signal Head

1806-84 Chicago Doublet 8-3/8" Lens Unit
Fixed Focus Lamp Bracket

1800-202 Three Indication Vertical Signal Head
with Back Ground

1800-186 A.L. FOR 5" (51.0 O.D.) PIPE.
 1800-187 A.L. FOR 4" (41.0 O.D.) PIPE.



REFERENCE: CHICAGO SIGNAL & SUPPLY CO. CHICAGO, ILL. 60604

THREE INDICATION COLOR LIGHT SIGNAL EQUIPPED WITH CHICAGO SOCKET LENS UNIT. (ADJUSTABLE FOCUSING TYPE)

CHICAGO SIGNAL & SUPPLY CO. CHICAGO, ILL. 60604

#1800-186 & 187 Three Indication Signal Head Comp.

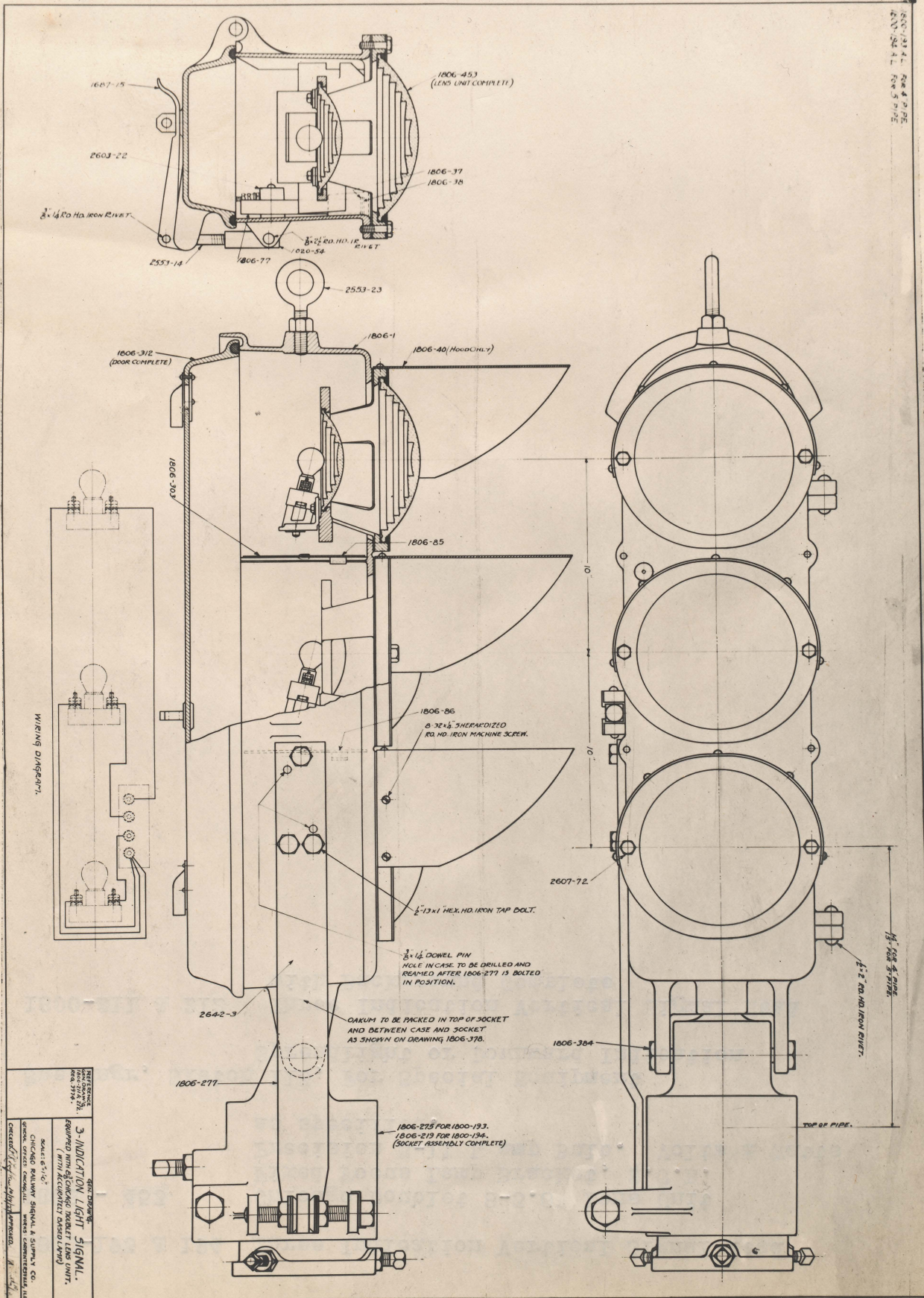
#1806-425 Chicago Doublet 8-3/8" Lens Unit Comp.
Focusing Lamp Bracket S. C B. S-11
Lamp (Volts and Watts As Spec.)

#1806-219 Socket Complete for 5" Pipe

#1800-205 Three Indication Signal Head Complete
with Back Ground and Socket
for 5" Pipe.

#1800-206 Three Indication Signal Head Comp.
with Back Ground and Socket
for 4" Pipe.

SECTION 1



1800
193
AMP
194

1800-193 & 194 Three Indication Vertical Signal Head

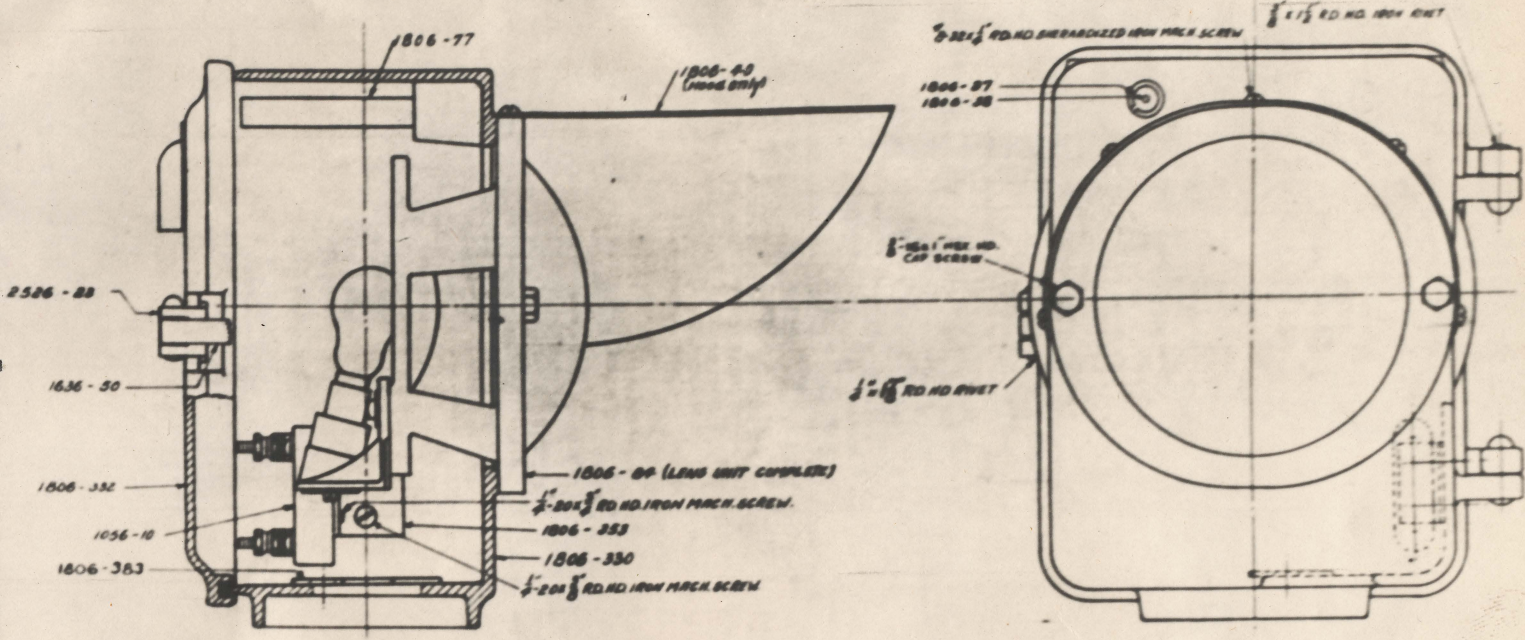
1806 - 453 Chicago Doublet 8-3.8" Lens Unit
Fixed Focus Lamp Bracket, S.C.B.
Precision S-11 Lamp Bulb. Volts & Watts
as specified.

See Engr, Sketch 113, For Special Equipment
Spreadlight or Downward Indication

1800-211 & 212 Three Indication Vertical Signal Head
with Background Complete

1808-1 AL

1808-1 One Indication Color Light Signal
1806-84 Chicago Doublet 8-5/8" Lens Units, FIXED FOCUS Lamp
Bracket, Rebased PS 16 Lamp (Volts & Watts As Spec.)



GEN DRAW'G 1800-261

REFERENCE
REQ 3650

GEN DRAWING
ONE INDICATION COLOR
LIGHT SIGNAL

SCALE 6"=1'-0"
CHICAGO RAILWAY SIGNAL & SUPPLY CO
BALDWIN OFFICE CHICAGO, ILL. MILWAUKEE, WISCONSIN

1808

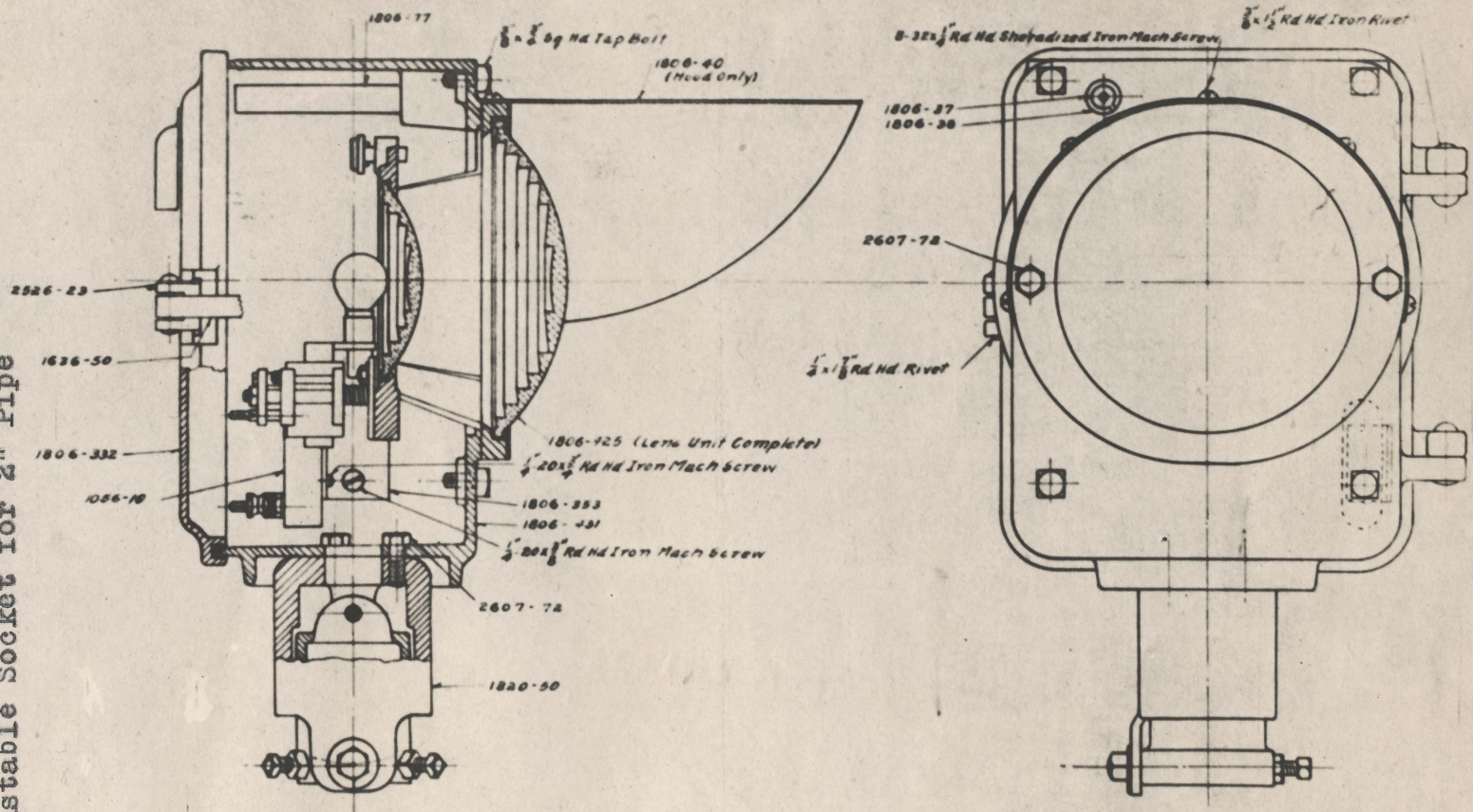
(B)

SECTION 1

PAGE NO

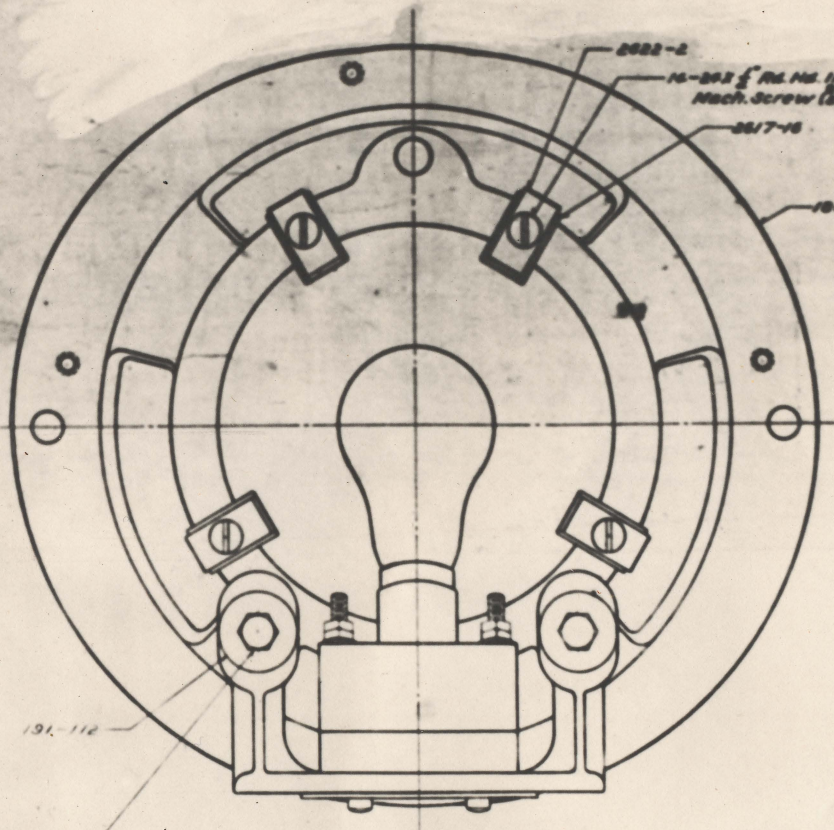
REVISIONS
 1. 1808-1 AL
 2. 1808-1 AL
 3. 1808-1 AL
 4. 1808-1 AL
 5. 1808-1 AL
 6. 1808-1 AL
 7. 1808-1 AL
 8. 1808-1 AL
 9. 1808-1 AL
 10. 1808-1 AL

1808-2 One Indication Color Light Signal
 1806-425 Chicago Doublet 8-3/8" Lens Unit
 Focusing Lamp Bracket
 1820-60 S.C.B. S-11 Lamp (Volts & Watts as specified)
 Adjustable Socket for 2" Pipe

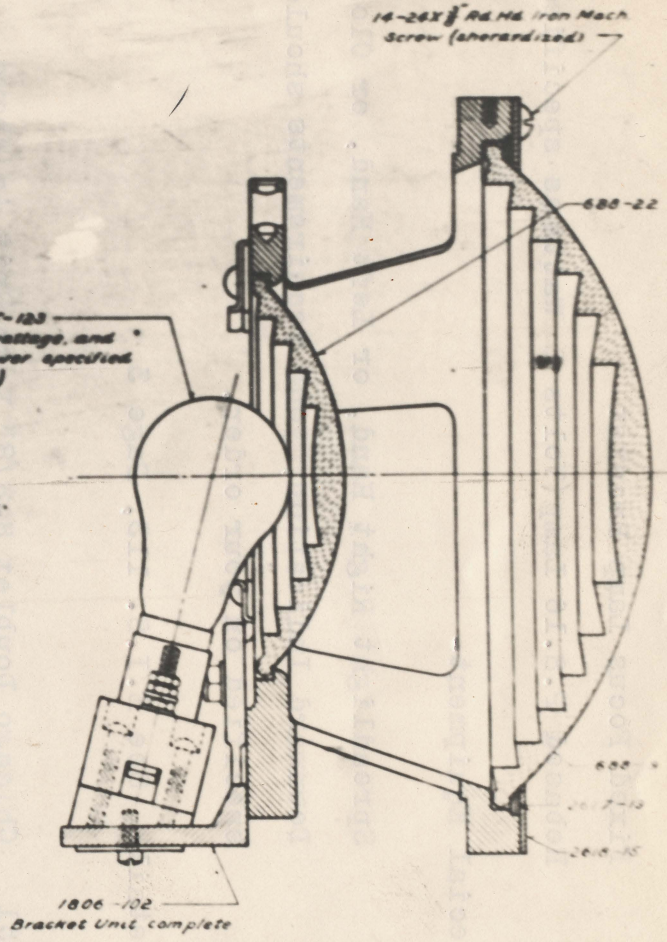


APPROVED Gen Drwg 1808-20 Sec 10/22/12	One Indication Color Light Signal Equipped with Chicago Doublet Lens Unit For Bracket Mounting
CHICAGO RAILWAY SIGNAL & SUPPLY CO. CHICAGO, ILL.	
APPROVED: [Signature]	

1806-84 A1



2685-123
(Voltage, wattage, and candle power specified on order.)



Reference
 2617-16
 2618-15
 Iron Machine Screws and
 Nuts

(OVER)

PAGE NO.

SECTION ONE

Gen. Drwg. 1800-4

See Reg. 2726.

EXPLANATION	GENERAL DRWG Color Light Signal Unit With Adjustable Bracket for Accurately Based Lamps
SCALE 2 1/2" = 1"	
CHICAGO RAILWAY SIGNAL & SUPPLY CO. GENERAL OFFICE CHICAGO, ILL.	
DATE 7/26/22	

1806
84



1806- 84 Chicago Doublet 8-3/8" Lens Unit
Fixed Focus Lamp Bracket
Rebased P.S.16 Lamp (Volts & Watts as specified)

For Special Equipment-

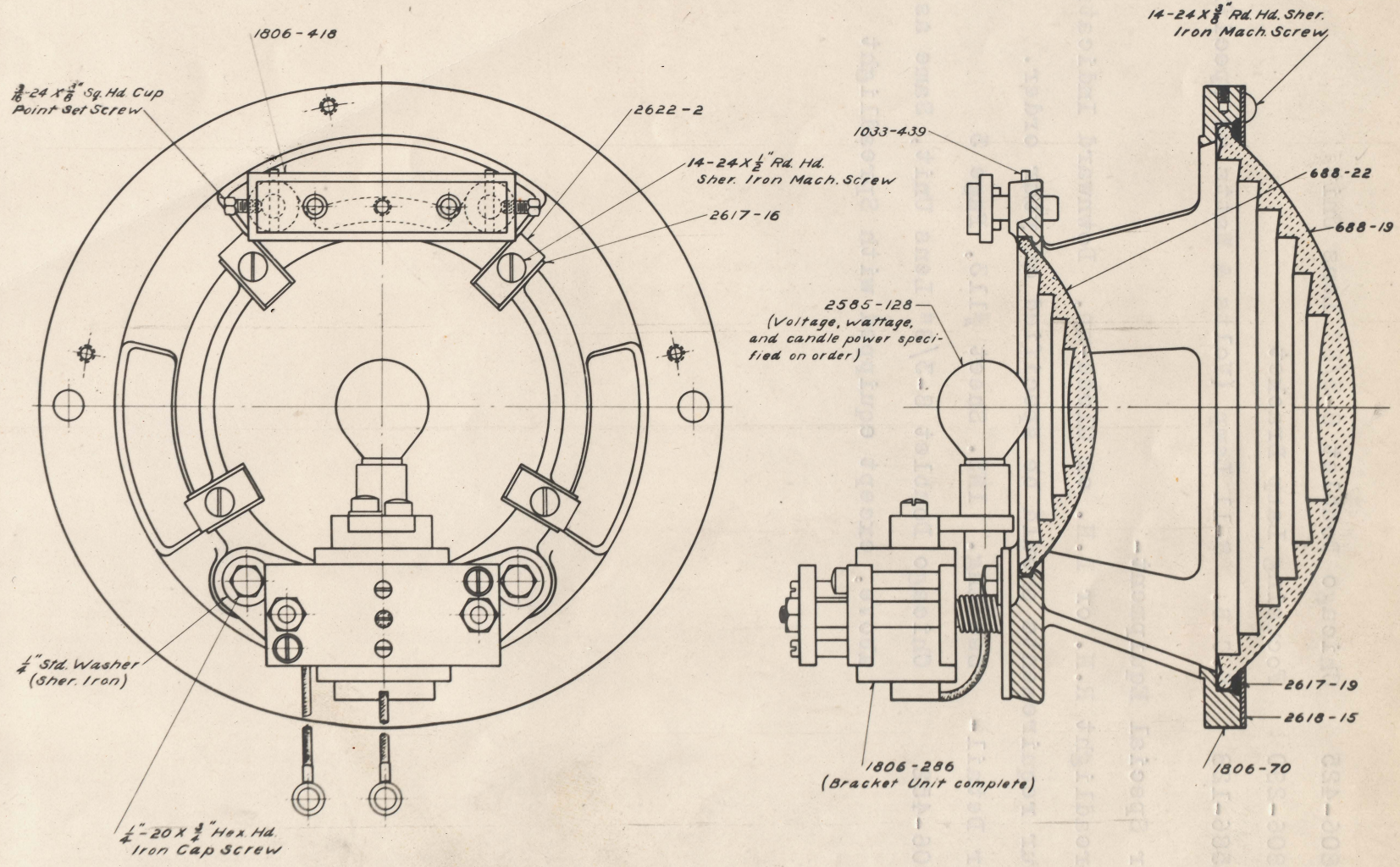
Spreadlight Right Hand, or Left Hand, or Close-up
Downward Indication, your requirements should be
specified on your order.

For Detail- See E.I.S. 113, Page 3

#1806-451 Chicago Doublet 8-3/8" Lens Unit As Above,
Equipped with Spreadlight.

1806-425 A.L.

REVISIONS



(OVER)

PAGE NO.

SECTION 1

<small>REFERENCE Gen. Drwg. 1806-185/186 Reg. 3725.</small>	<small>GENERAL DRWG.</small> 5 $\frac{3}{8}$" Chicago Doublet Lens Unit With Adjustable Focusing Bracket	1806 425
	<small>SCALE 1/2" = 1'-0"</small> CHICAGO RAILWAY SIGNAL & SUPPLY CO. <small>SALES OFFICE, CHICAGO, ILL. WORKS, CARPENTERSVILLE, ILL.</small>	
<small>CHECKED F.P. [Signature] 6/11/27</small>	<small>APPROVED [Signature]</small>	

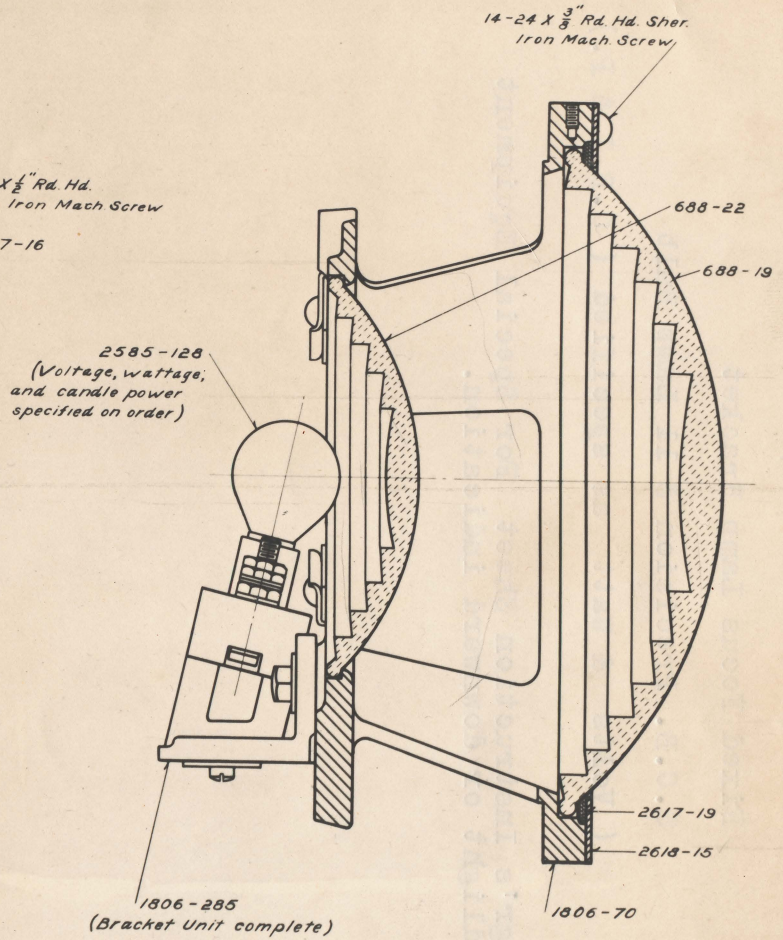
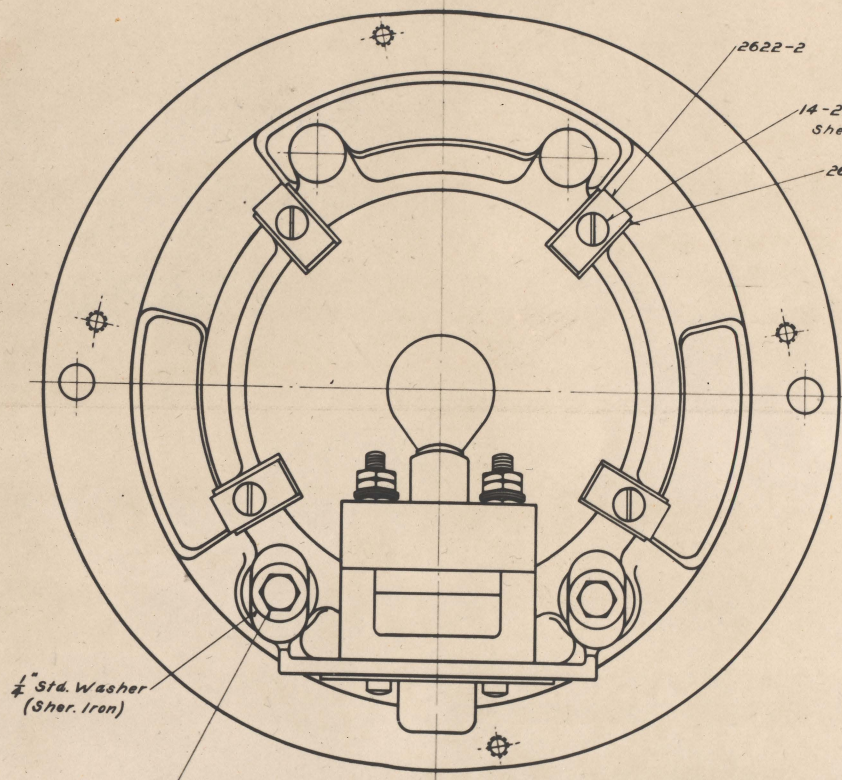
1806-425 Chicago Doublet 8-3/8" Lens Unit
1806-280 Focusing Lamp Bracket
2586-128 S.C.B. S-11 Lamp (Volts & Watts as specified)

For Special Equipment-

Spreadlight R.H. or L.H. or Close-up, Downward Indication
your requirements should be specified on your order.

For Detail- See Eng. INS. Sheet #113, Page 3

1806-452 Chicago Doublet 8-3/8" Lens Unit, Same as
above, except equipped with Spreadlight



REFERENCE Gen. Drwg. 1806-03 & 194 Req. 3725.	GENERAL DRWG. 8 3/8" Chicago Doublet Lens Unit With Accurately Based Lamp	1806 453
SCALE 1/2" = 1" 0" CHICAGO RAILWAY SIGNAL & SUPPLY CO. SALES OFFICE, CHICAGO, ILL. WORKS, CARPENTERSVILLE, ILL.		(B)
CHECKED P. A. [Signature] 10/14/12 APPROVED [Signature] 10/14/12		

(OVER)

PART 3

SECTION 1

1806- 453 Chicago Doublet 8-3/8 Lens Unit

Fixed Focus Lamp Bracket

S.C.B. Precision S 11 Lamp Bulb

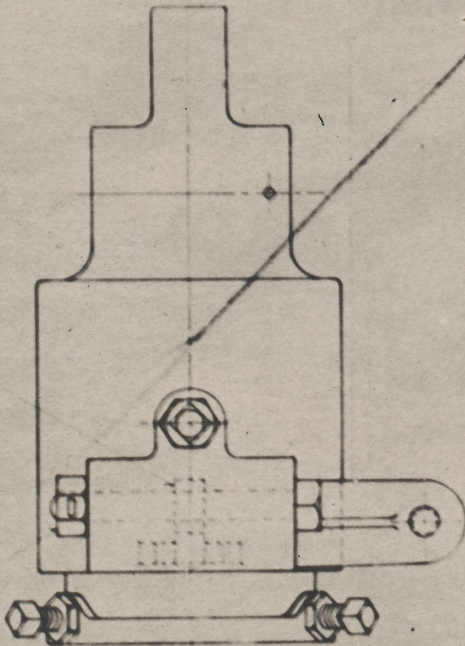
(Volts & Watts as specified (C.R.I.& P.)

See Engr's Instruction Sheet For Special Equipment
Spreadlight or downward indication.

$\frac{3}{16}$ " $\frac{1}{2}$ " Cutter
 to hole to be drilled in ball after assembly
 to allow ball to turn freely but with as little
 play as possible

1806-97

30-39



$\frac{1}{2}$ "-10 X $2\frac{1}{2}$ " Flat PL Set Screw

$\frac{1}{2}$ "-10 Semi-Thick Hex Nut

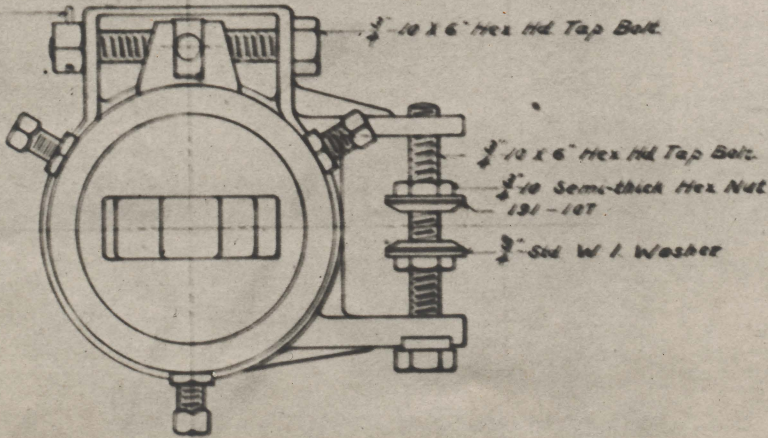
1806-99
 (Ball not to be included
 until 1806-205 is
 assembled on bolt)

1806-191

1806-82

1806-196
 (Ball not to be included
 until 1806-205 is
 assembled on bolt)

$\frac{1}{2}$ "-10 X $1\frac{1}{2}$ " Cup PL Set Screw
 1806-197



$\frac{1}{2}$ "-10 X 6" Hex Hd Tap Bolt

$\frac{1}{2}$ "-10 X 6" Hex Hd Tap Bolt

$\frac{1}{2}$ "-10 Semi-thick Hex Nut

191-107

$\frac{1}{2}$ " Std W / Washer

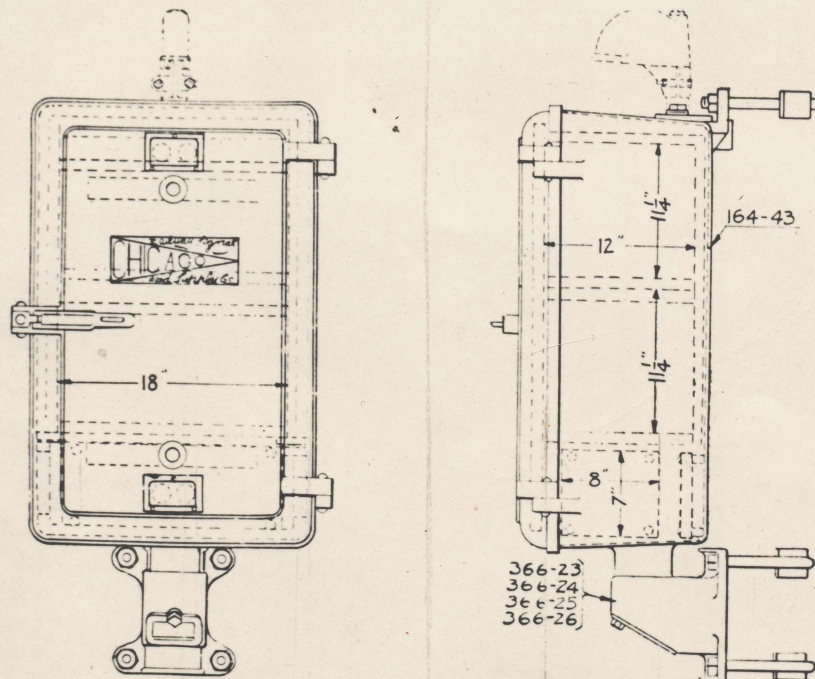
1806-219 Socket Complete for 5" Pipe

" -275 " " " 4" Pipe



STYLE "R" RELAY BOX

Two Relay Compartments and Three Terminal Boards



The Style "R" Relay Box illustrated has two Relay Compartments and three Terminal Boards, and is furnished with Plugged Inlet opening and with or without Cable Outlet, as indicated.

The Door, which has two style No. 189-9 Ventilators, fits tightly against the flax packing, making Box absolutely dust and water proof. The Wood Lining is supported on bosses, permitting the use of concealed wiring, and has a tightly fitting spring-back Frost Door.

Each Relay Compartment is $11\frac{1}{4}$ " high, 18" wide and 12" deep, and each of the three Terminal Boards is 7" high.

The design is such as to permit mounting Boxes back to back, using six machine bolts in lieu of the U Bolts.

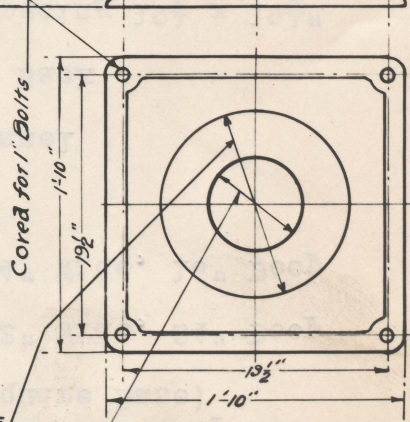
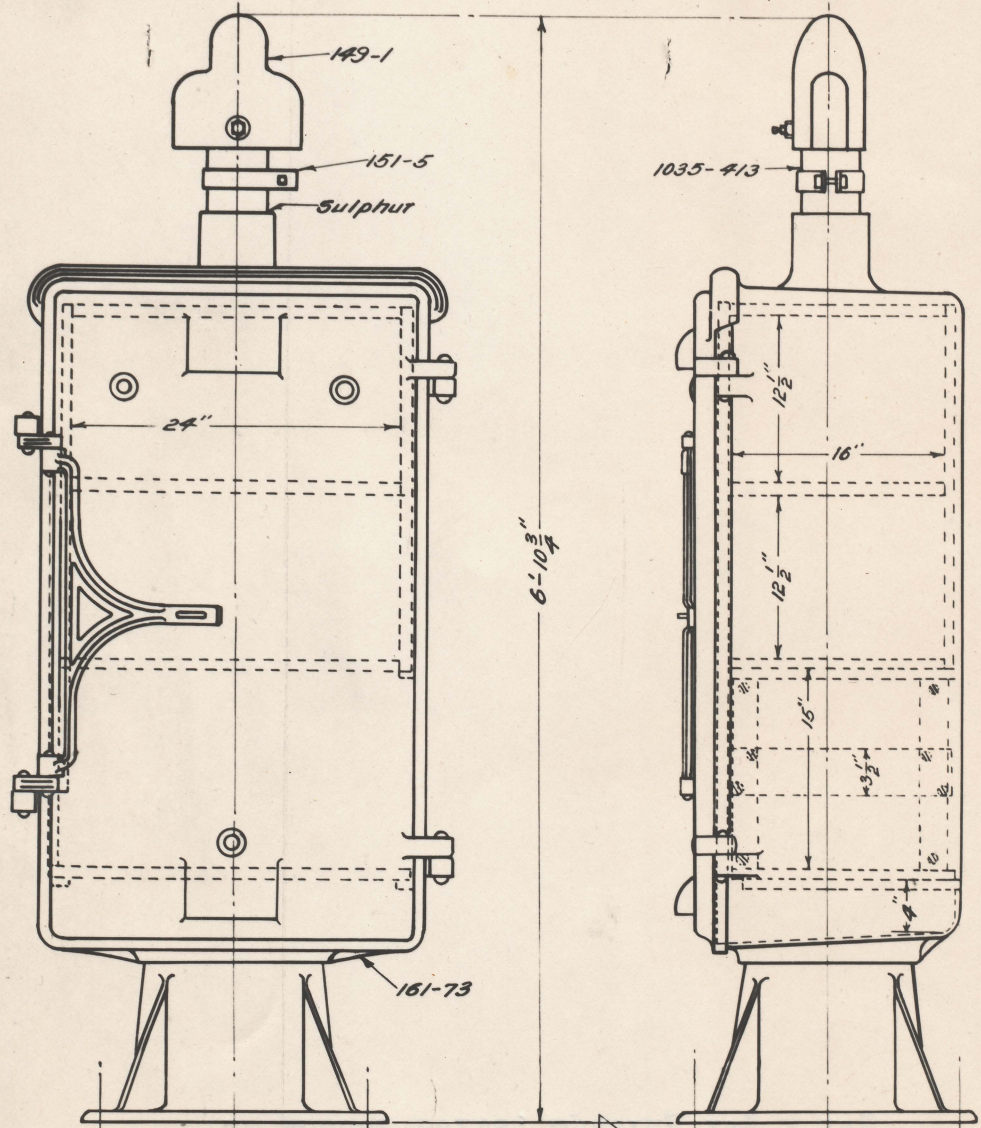
The Brackets have large openings for wires and are equipped with large Hand Holes with removable covers.

The Box is also furnished without center Shelf or with any other desired Shelf spacing; also with two Plugs or two Cable Outlets, when so specified.

For Cable Outlets, Brackets, U Bolts, Repair Parts, etc., see separate listing on succeeding pages.

Trade No.	DESCRIPTION	List Price
AS SHOWN		
164-30	Style "R" Relay Box with Terminal Boards, Inlet Bracket and U Bolts for 3" Pipe	\$58.00
164-31	Same as above except for $3\frac{1}{2}$ " and 4" Pipe.....	58.20
164-32	" " " " " 5" Pipe	58.40
164-33	" " " " " 6" "	58.60
164-43	" " " " without Inlet Bracket and U Bolts.....	52.00
WITH A. R. A. CABLE OUTLET NO. 152-28.		
164-52	Style "R" Relay Box with Terminal Boards, A. R. A. Cable Outlet No. 152-28, Inlet Bracket and U Bolts for 3" Pipe.....	61.00
164-53	Same as above except for $3\frac{1}{2}$ " and 4" Pipe.....	61.20
164-54	" " " " " 5" Pipe	61.40
164-55	" " " " " 6" "	61.60
164-63	" " " " without Inlet Bracket and U Bolts.....	55.00

101-244 R.L.



See Reg 3598

SCALE $1\frac{1}{2}'' = 1'-0''$

Style "M" Relay Box

GENDRWG.

CHICAGO RAILWAY SIGNAL & SUPPLY CO.
SALES OFFICE, CHICAGO, ILL.
WORKS, CARPENTERSVILLE, ILL.

CHECKED *C. Gaudin* 12-1-26, APPROVED *J. M. Gaudin* 12-1-26

101
244

(A)

REVISIONS
✓ REVISED IN
ACCORDANCE
WITH REG. 3598.
CLAUDE 12-2-26.
2) NOTE ADDED
ON BASE PER
REG. 3653.
C. Gaudin 12-7-26.

101-244

Style "M" Instrument Case Complete
with Cable Post (Square Base)

Outside 5' High, 32" Wide, 24" Deep

Inside 44" High, 24" Wide, 16" Deep

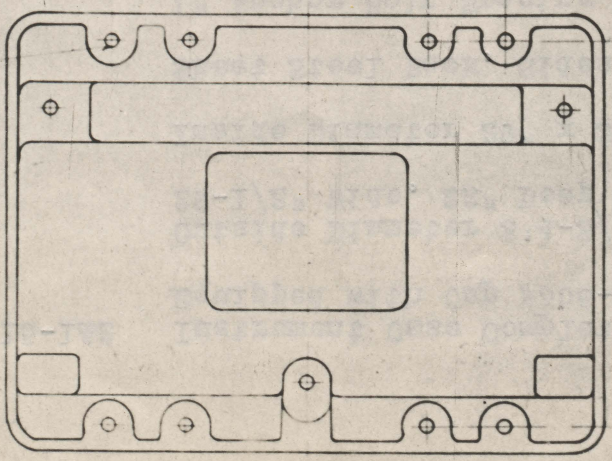
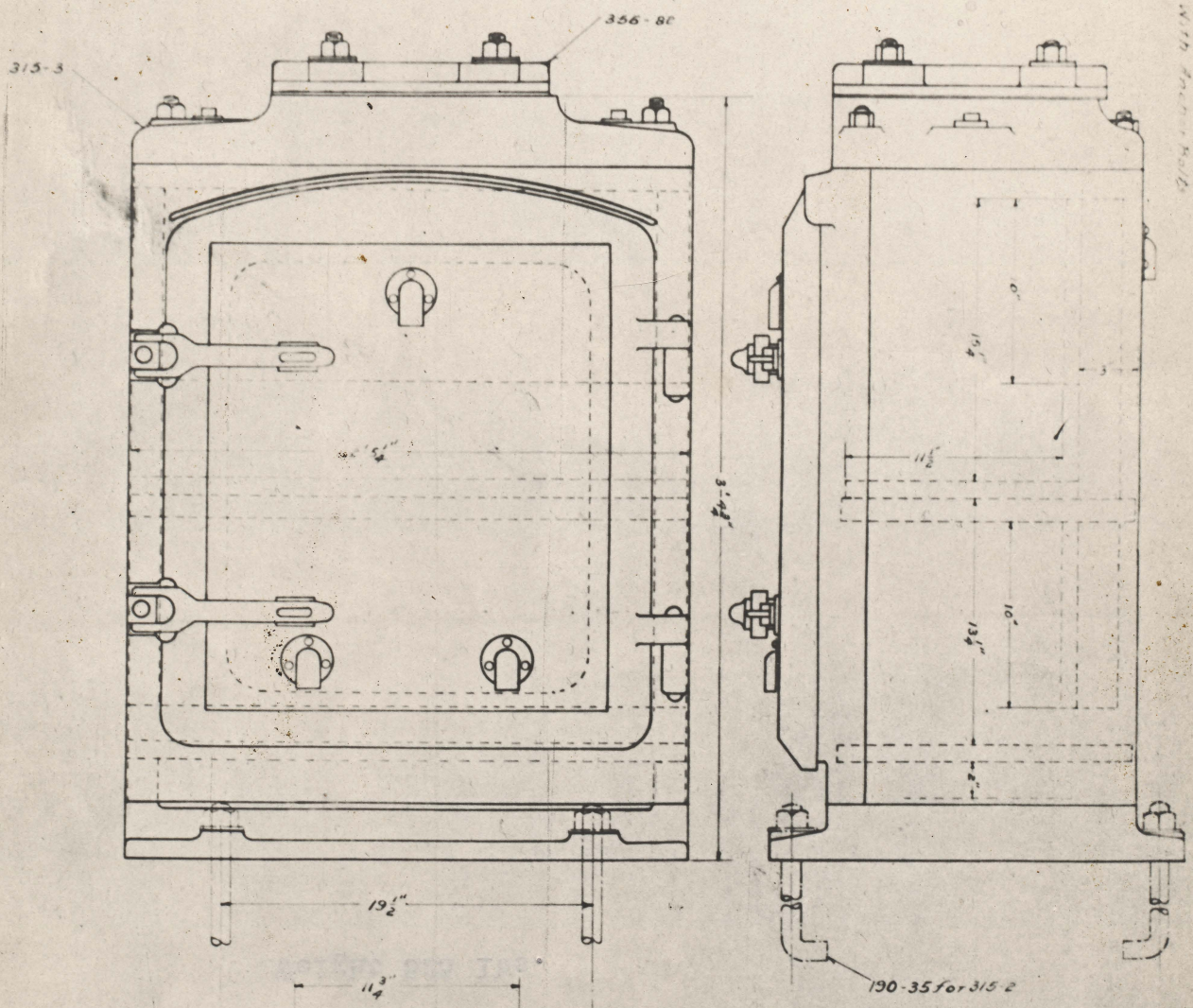
Weight 1050 lbs

Sheet Steel Door Panel

Cast Iron Side and Back

1" Anchor Bolts, Spacing $19\frac{1}{2}$ x $19\frac{1}{2}$ "

315-1 42 1/2" High Anchor Bolts
315-2 2" With Anchor Bolts



Holes for Anchor Bolts

OUTLINE DRAWING
Relay & Battery Case

NOTES:
1. Case made for
315-1 & 315-2
with anchor bolts
2. See drawing
315-3 and
315-4

Scale 3/16" = 1"

CHICAGO RAILWAY SIGNAL & SUPPLY CO.
150 N. LAKE STREET, CHICAGO, ILL.
MADE IN U.S.A.

315
&
B

SECTION 1

PAGE NO.

OVER

315-1&2 Instrument Case Complete (One Door)
Equipped with Cap #356-82.

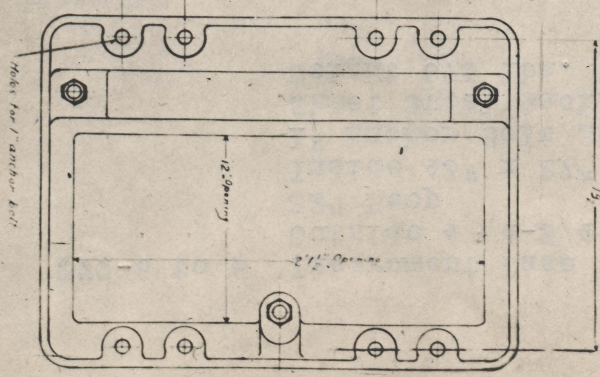
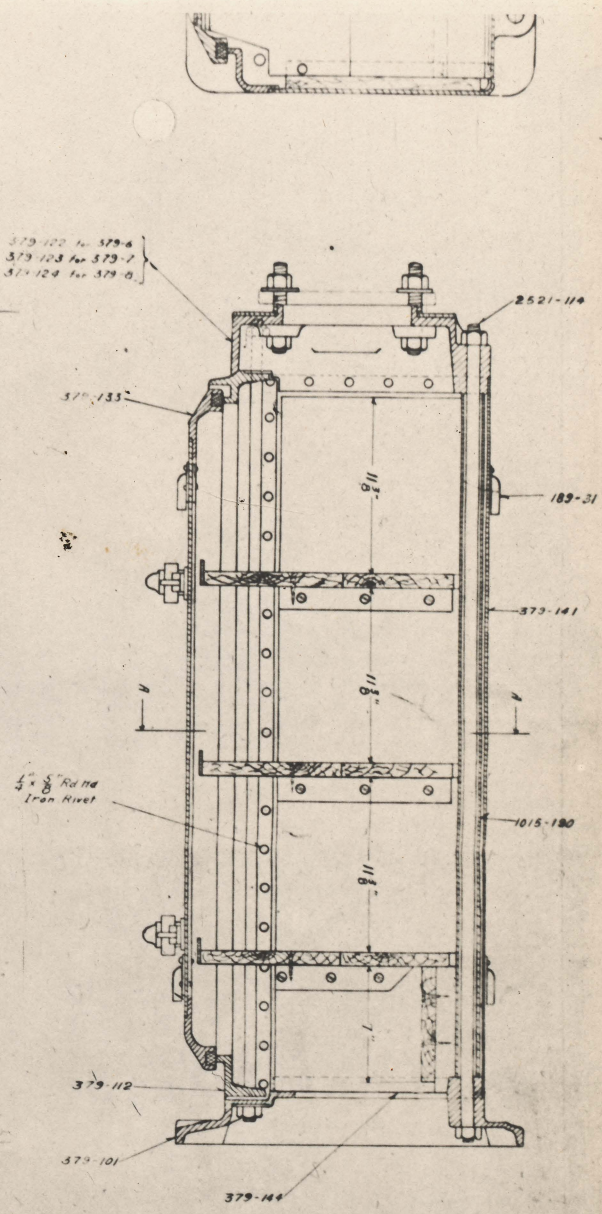
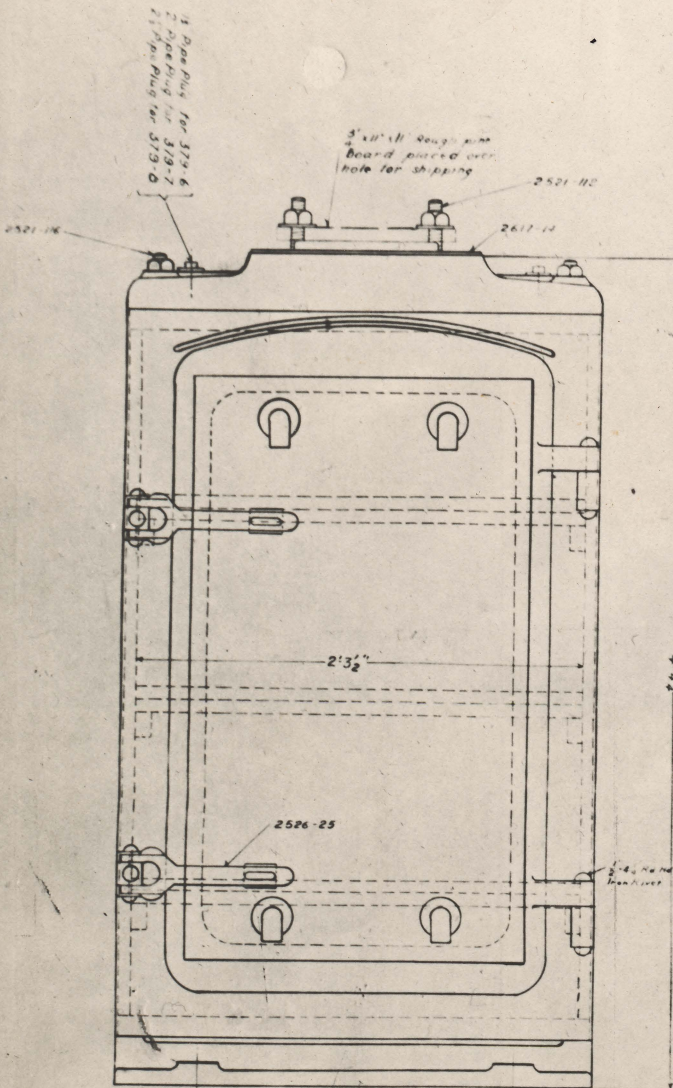
Outside Diameter 3'4-3/4" High
29-1/2" Wide, 22" Deep

Inside Diameter 29" x 27" x 17"

Sheet Steel Back, Sides and Door Panel

1" Anchor Bolt Spacing 19-1/2" x 19-1/2"

Weight 525 lbs.



GEN DRAW G
Relay & Battery Case
379
6708

CHICAGO RAILWAY SIGNAL & SUPPLY CO.
CHICAGO, ILL.

379-6 to 8 Instrument Case (One Door)
Outside 4' 4-3/4" High, 29-1/2" Wide
22" Deep
Inside 43" x 27" x 17"
1" Anchor Bolt Spacing 19-1/2" x 19-1/2"
Sheet Steel Back, Sides and Door Panel
Weight 675 lbs.

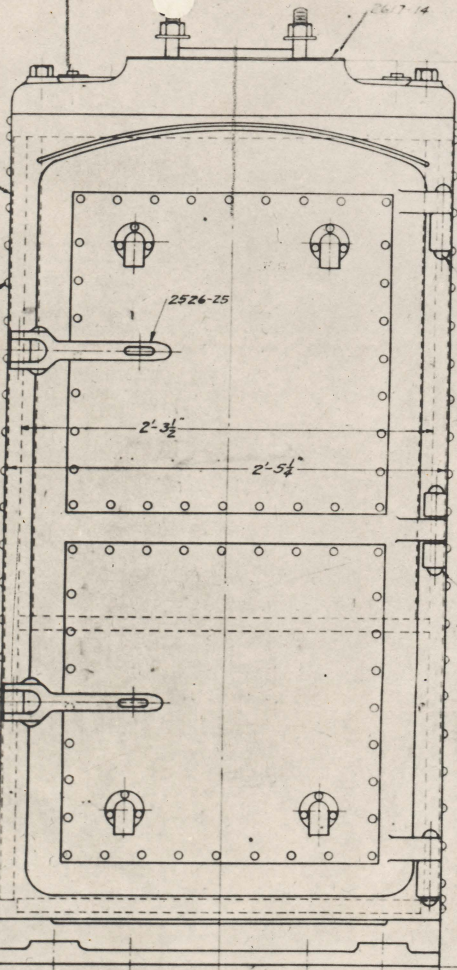
1 1/2" old pipe plus for 381-1
2"
2 1/2"

2521-112

381-122 for 381-1
381-123 - 381-2
381-124 - 381-3

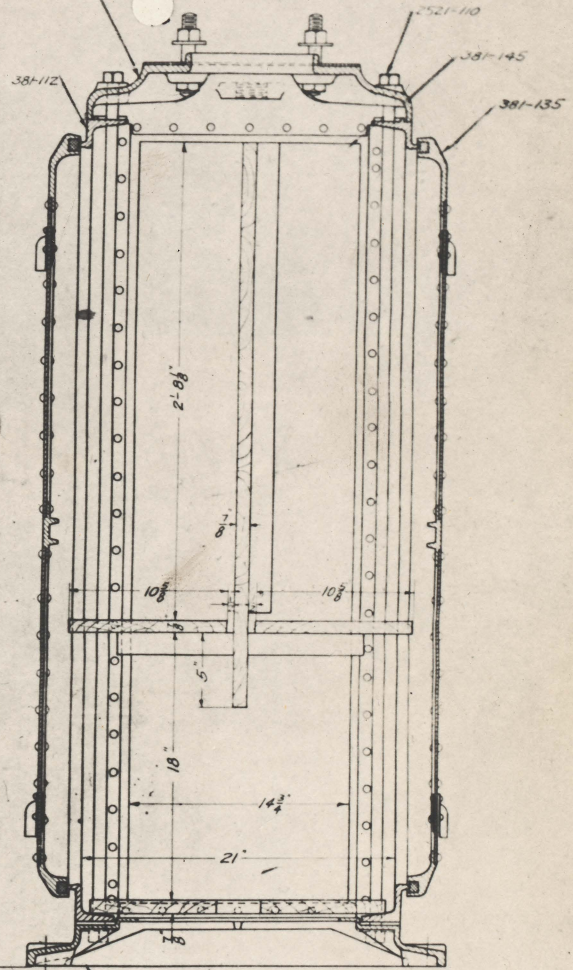
381-141
Edges of Plates & around
rivet holes must be coated
with thick graphite paint
freshly applied before
riveting

2 x 1/8" Rd. hd.
iron Rivet

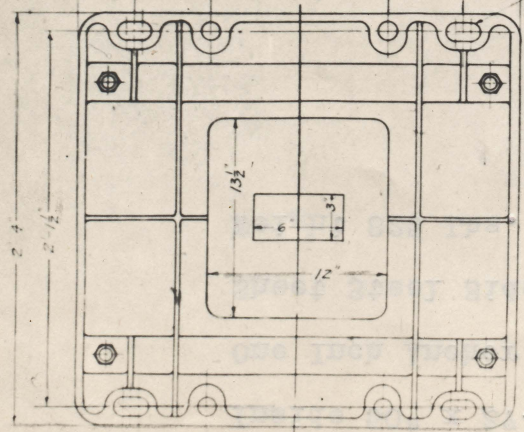


2 x 1/4"
Ed. hd iron
Rivet

1 x 5/8"
Ed. hd iron
Rivet



For Anchor Bolts



Relay & Battery Case
381-1
1703

381-1 & 3 Instrument Case (Two Door)

Outside 5'0 3/4" High, 29-1/2" Wide, 28" Deep

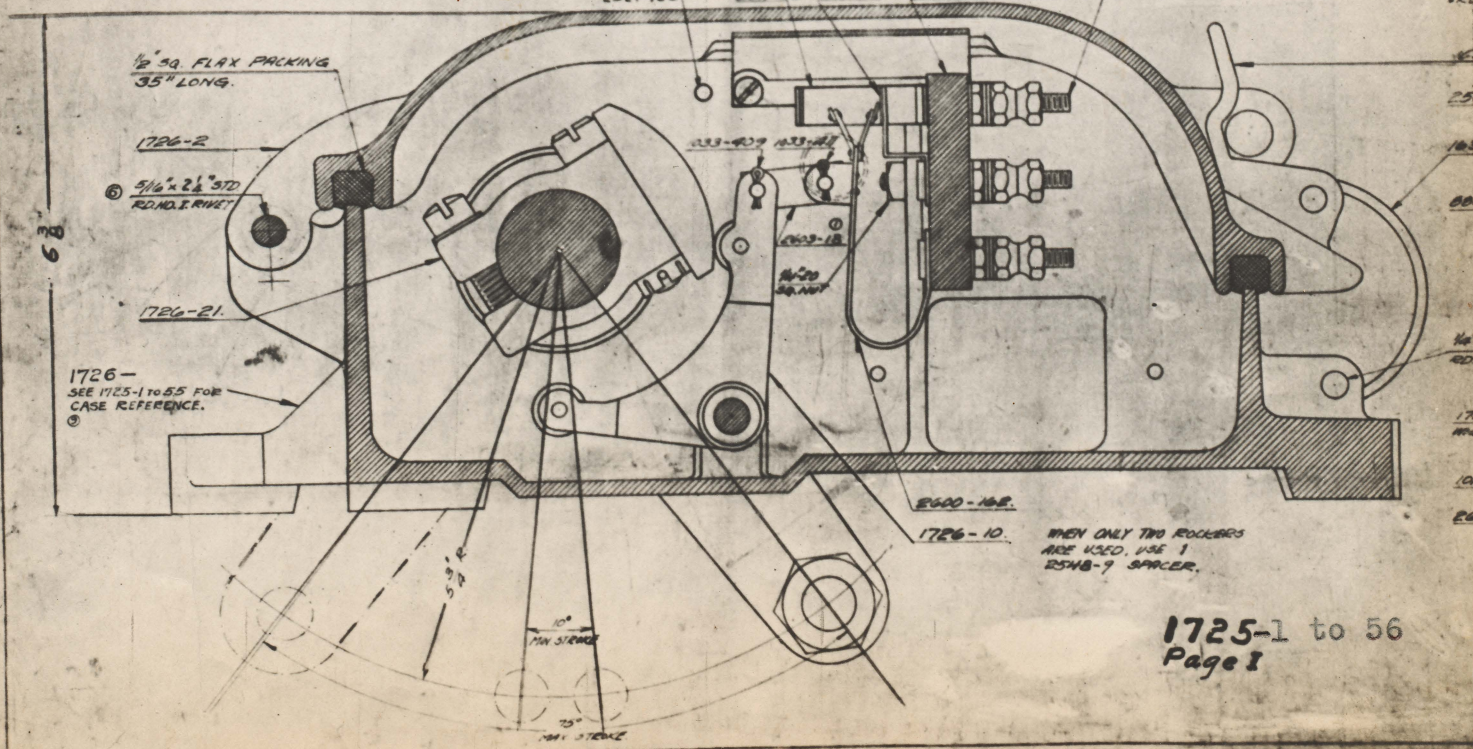
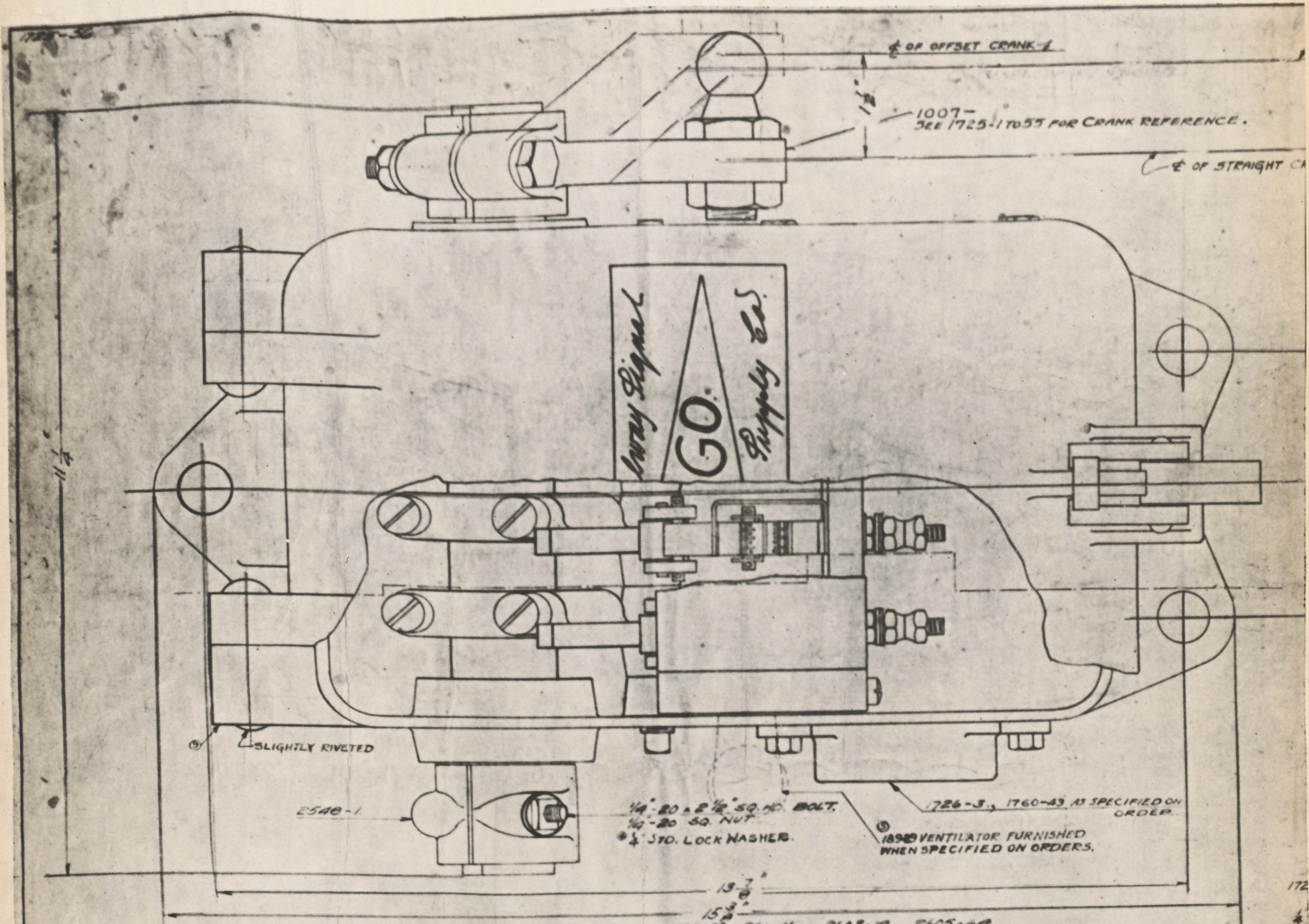
Inside 50" x 27-1/2" x 23"

One Inch Anchor Bolt Spacing 22 x 25-1/2"

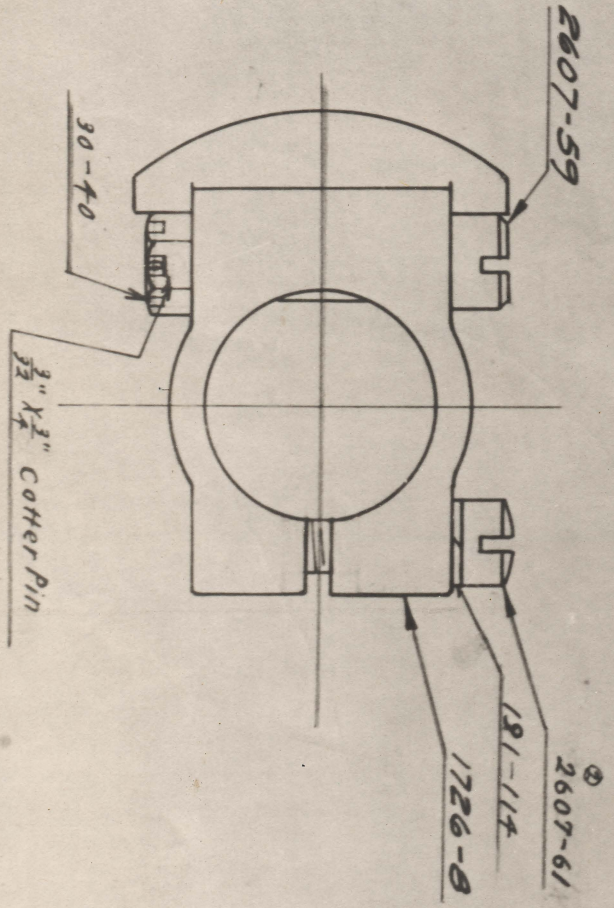
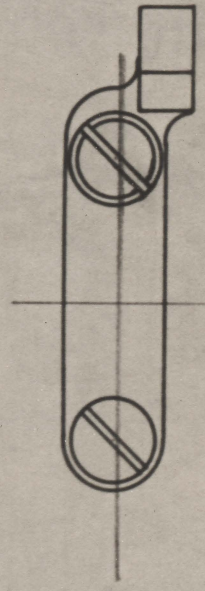
Sheet Steel Side and Door Panel

Weight 825 Lbs.

ASSEMBLY LIST 1725-1 to 56			TITLE STYLE "D" SWITCH CIRCUIT CONTROLLER- TWO POSITION
SHEET NO.	CHECKED BY	DATE	APPROVED-
CONT. ON SHT. NO.	<i>S.R.</i>	7/22/27	
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	DESCRIPTION
	1726-1	1	Case (with or without Spring & Hasp)
	1726-2	1	Cover (with packing)
	1726-11	1	Cover (Drip)
	2543-9	1	Shaft (Main)
	2624-5	1	Shaft (Rocker)
	1726-21	4	Cam (2 Position) Complete
	1726-10	4	Rocker Complete
	2603-18	4	Link
	2600-162	4	Contact Spring Complete
	2611-23	4	Contact Back Complete
	2611-4	4	Contact Front Complete
	2603-19	1	Terminal Board
	2605-64AL	12	Binding Post Complete
	2548-1	1	Collar
	1726-6		Centering Device
	1007-46		5-3/4" Straight Crank , No Ball Stud
	1007-47		5-3/4" Straight Crank with 1223-6 noninsulat- ed ball stud
	1007-91		5-3/4" Offset 1-1/2" Crank, with 2521-96 insulating ball stud.
	1007-92		5-3/4" Offset 1-1/2" Crank, no ball stud
	1007-122	1	4-1/2" Straight Crank, with 2521-99 non-insulated ball stud
	1007-128		5-3/4" Offset 1-1/2" Crank, with 2521-99 non-insulated ball stud.
	1007-143		5-3/4" Offset 2-3/8" Crank, with 2521-96 Insulated Ball Stud
	1007-144		5-3/4" Straight Crank with 2521-99 non- insulated ball stud
	1007-146		5-3/4" Straight crank, with 2521-96 insulated ball stud.
REVISIONS			



1726-21 RL. 2-POS. CAM ASSEMBLY.



GEN. DWG.

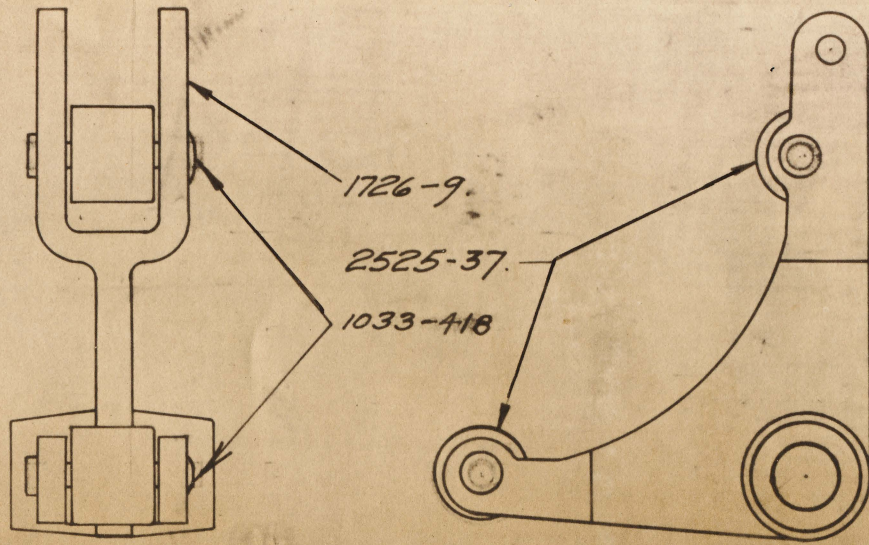
#1726-21 CAM

REVISIONS
1 Revised in accordance with Reg. 3272 EAP 1/23/46
2 Reference added for Mach Screws See Reg. 3272 A. K. Anderson 1/23/46

SECTION 2

1726-21 CAM

PART 1



GEN. DWG. 1725 STYLE "D" SWITCH CIRCUIT CONT. SEE REQ. 315H.

	REFERENCE.	DET. DWG. ROCKER.	1726 9 x 10.
		SCALE $\frac{1}{2}$ " CHICAGO RAILWAY SIGNAL & SUPPLY CO. GENERAL OFFICE CHICAGO, ILL. WORKS CARPENTERSVILLE ILL. CHECKED <i>J. Kilgus 10/14/35</i> APPROVED <i>(Signature) 10/14/35</i>	Ⓑ

2600-162.

TITLE DET. DWG.

SPRING CONTACT COMP.

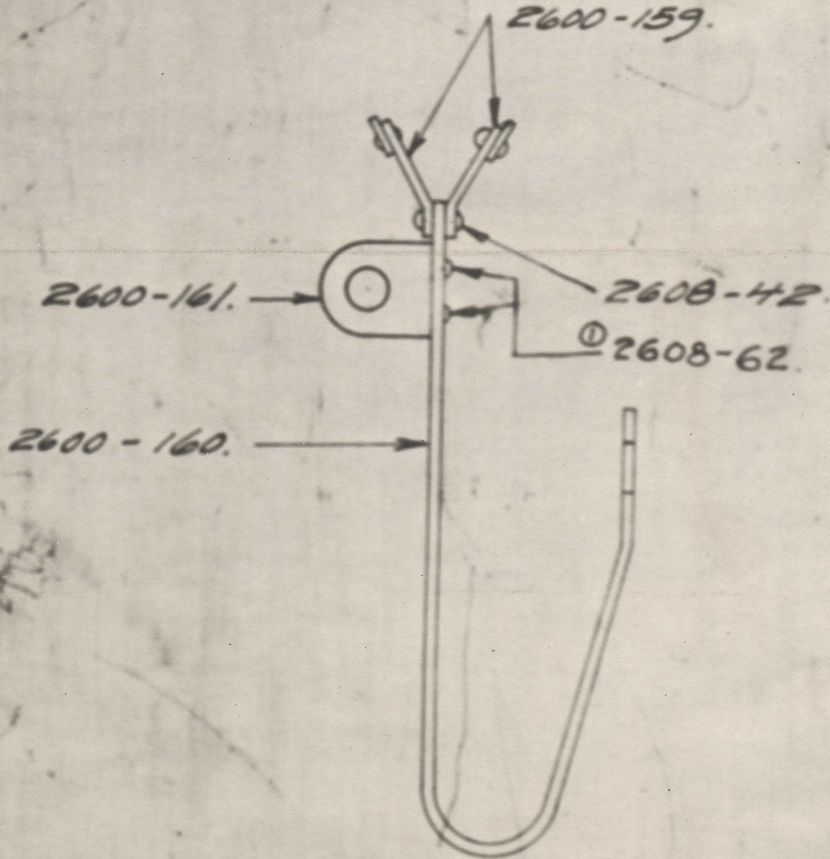
CHECKED *S. Ricks* DATE 10/26/25
CHIEF DRAUGHTSMAN

APPROVED *J. W. Parity* 10/27/25
CHIEF ENGINEER

SCALE: 1" = 1"
CHICAGO RAILWAY SIGNAL & SUPPLY CO., CHICAGO

REVISION 2600-162 A.L.

1/2608-62
WAS 2608-42
See Rgs. 3250
See Rgs. 3250



GEN. DWG. 1725 STYLE 'D' SWITCH CIRC. CONT. SEE REQ. 3154

2611-4

TITLE GEN. DRWG.

CHECKED *F. R. Howell*
CHIEF DRAUGHTSMAN

DATE
6-17-19

① *Front Contact Tip Holder Comp*

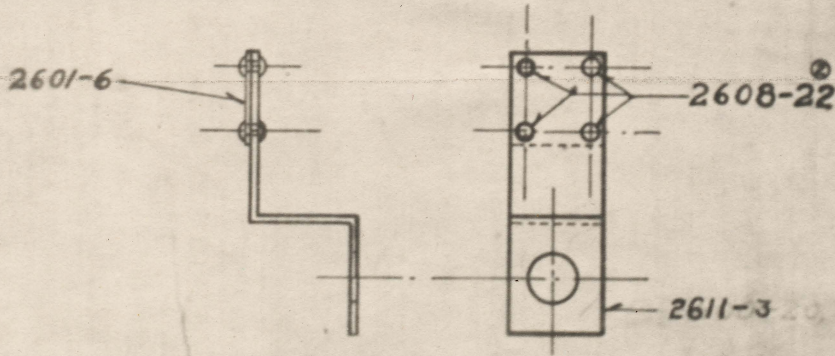
APPROVED *D. J. M. Carthy*
CHIEF ENGINEER

DATE
7/8/19

Scale: Full Size
CHICAGO RAILWAY SIGNAL & SUPPLY CO., CHICAGO

REVISION 2611-4 A.L.

① Title changed
See Reg 1295.
F. R. Howell 12/1/20
② Rivets
changed. See
reg. 1349.
St. Paul 11/7/21



Gen. Drwg. 1722 Style "B" switch circuit Controller

2611-23.

TITLE GEN. DWG.

CHECKED

J. P. P. [Signature]
CHIEF DRAUGHTSMAN

DATE

10/24/25

BACK CONTACT TIP HOLDER. COMP.

APPROVED

J. M. [Signature]
CHIEF ENGINEER

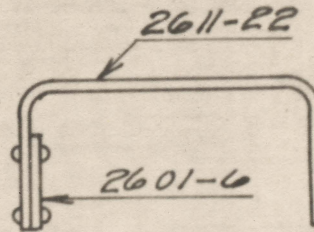
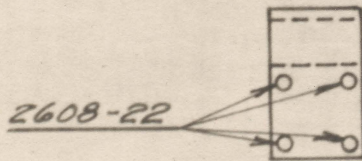
12/1/25

SCALE: 1"=1"

CHICAGO RAILWAY SIGNAL & SUPPLY CO., CHICAGO

REVISION

2611-23 A.L.



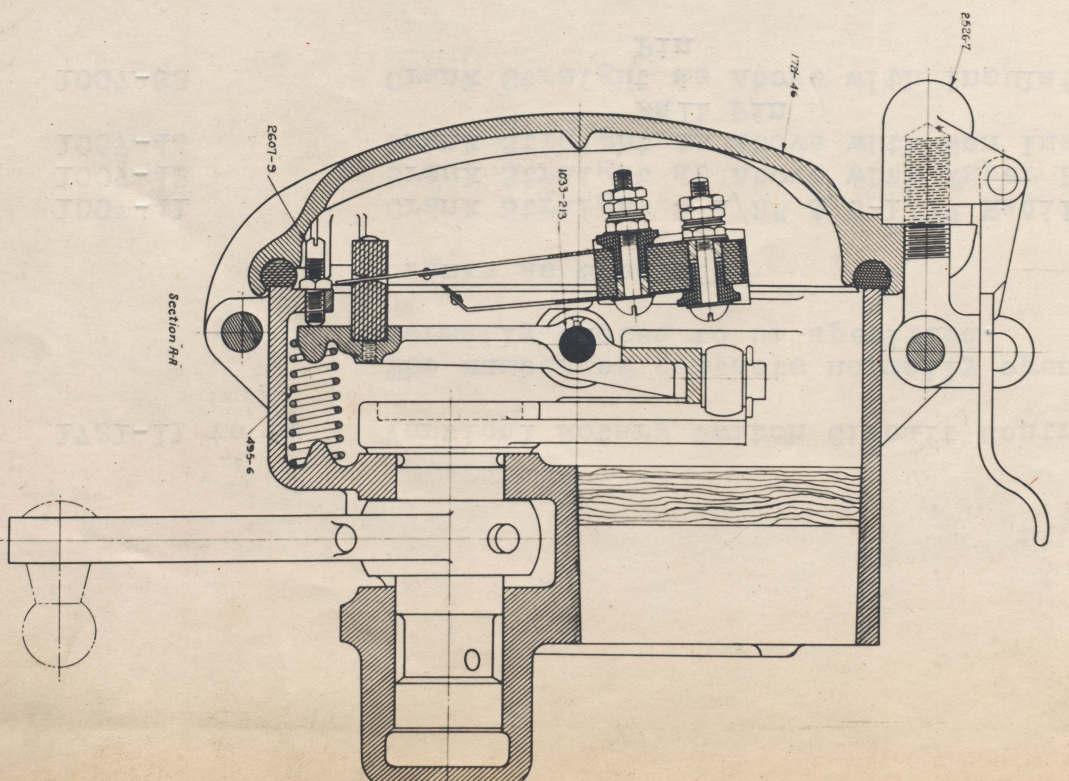
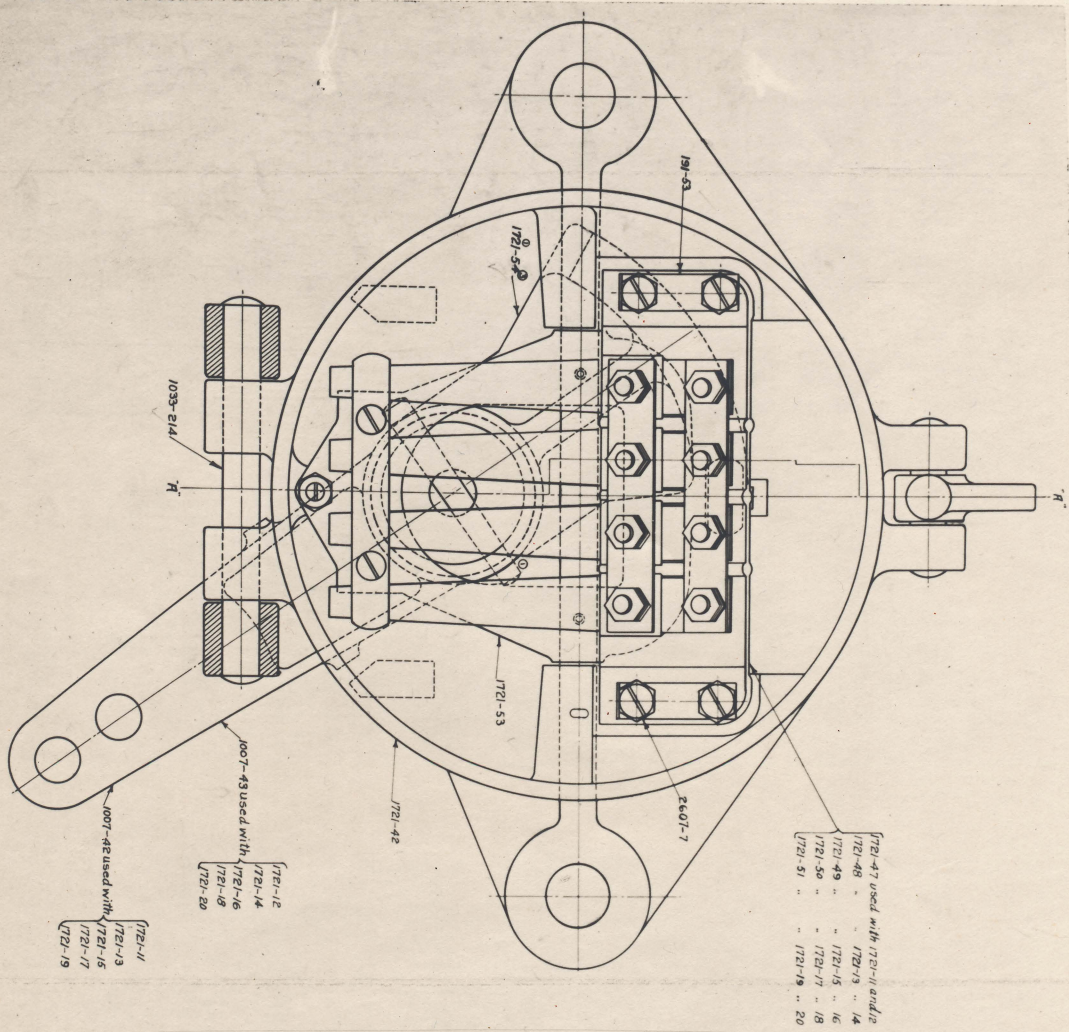
GEN. DWG. 1725 STYLE 'D' SWITCH BOX. SEE REQ. 3154.

SECTION 2

#2611-23 BACK CONTACT COMPLETE PART 1

2611
23.

ASSEMBLY LIST 1721-11 to 20 A.L.			TITLE	VERTICAL ROTARY CIRCUIT CONTROLLER
SHEET NO.	CHECKED BY	DATE	APPROVED—	
CONT. ON SHEET NO.			CHICAGO RAILWAY SIGNAL & SUPPLY CO.	
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	DESCRIPTION	
	1721-41/42	1	Case Complete	
	" -45/46	1	Case Cover	
	" -47/51	1	Contact Spring Board Complete	
	" -54	1	Motion Plate	
	"- 53	1	Rocker Arm Complete	
	1005-42	1	Crank as specified on order	
REVISIONS				



1721-11 to 20

Vertical Rotary Switch Circuit Controller

The number of contacts normally open and normally closed to be specified.

Cranks As Specified

1007-41

Crank Straight 5-1/2" & 6-1/2" Radii

1007-42

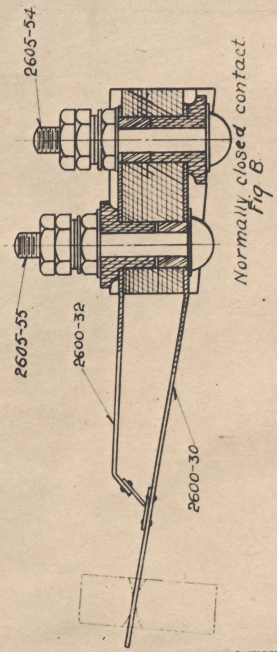
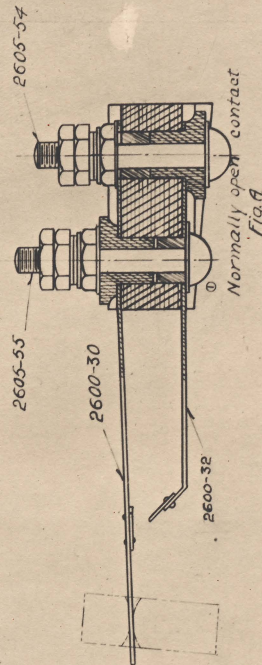
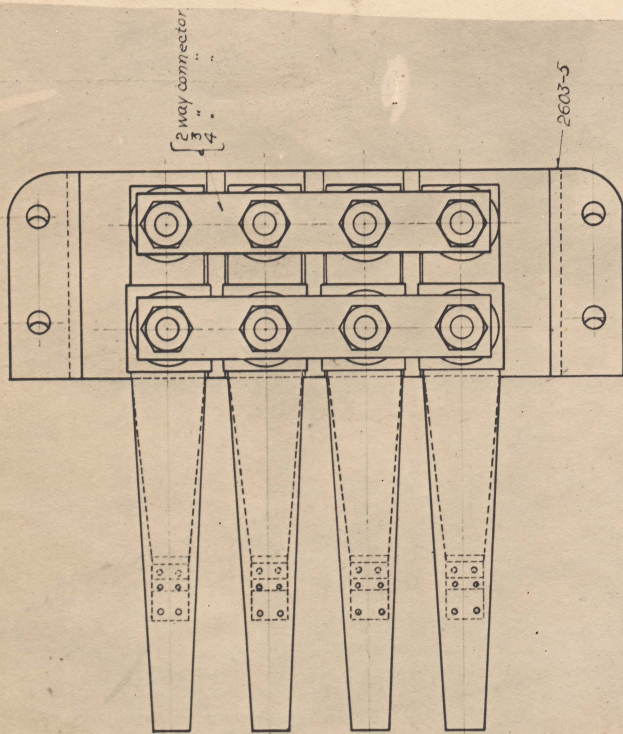
Crank Straight as Above with Taper Pin

1007-43

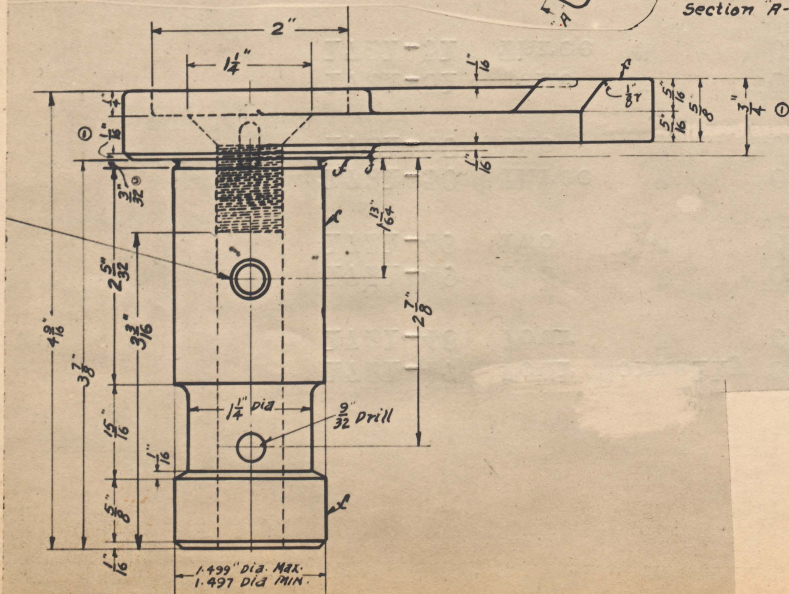
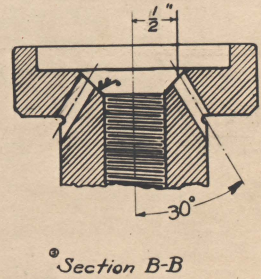
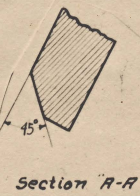
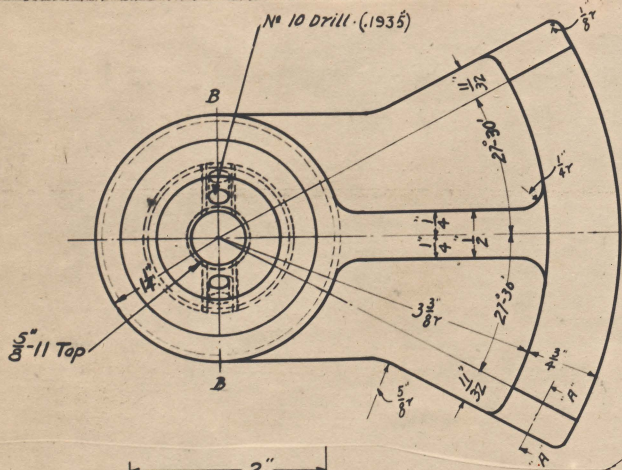
Crank Straight As Above with Non Insulated
Ball Pin

1007-83

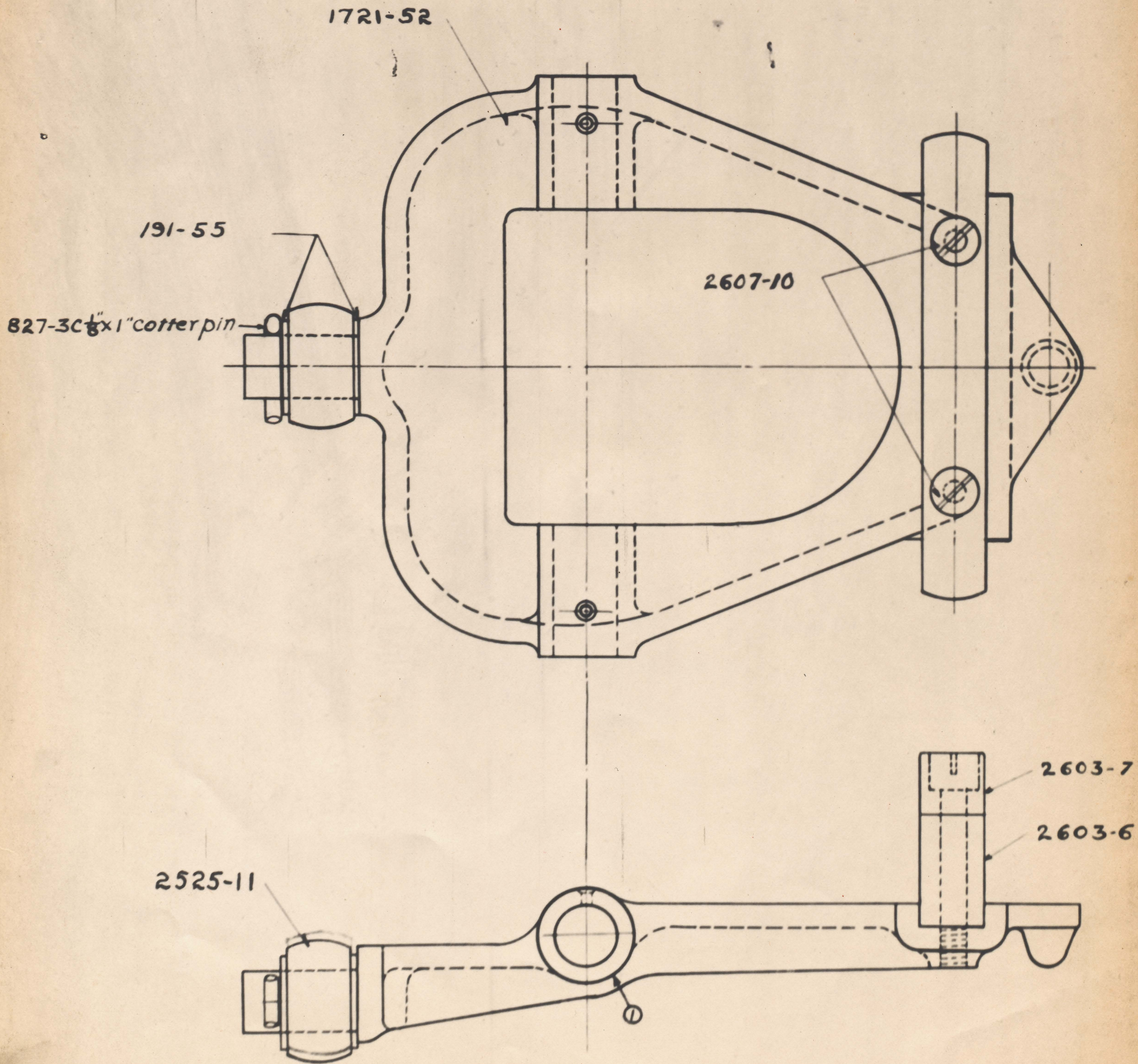
Crank Straight as Above with Insulated Ball
Pin



CONTACT SPRING BLOCK #1721-47 to 51



1721-47	Four	Normally	Open	Contacts
1721-48	Four	"	Closed	"
1721-49	Two	"	Open	"
1721-49	Two	"	Closed	"
1721-50	Three	"	Open	"
1721-50	One	"	Closed	"
1721-51	One	"	Open	"
1721-51	Three	"	Closed	"



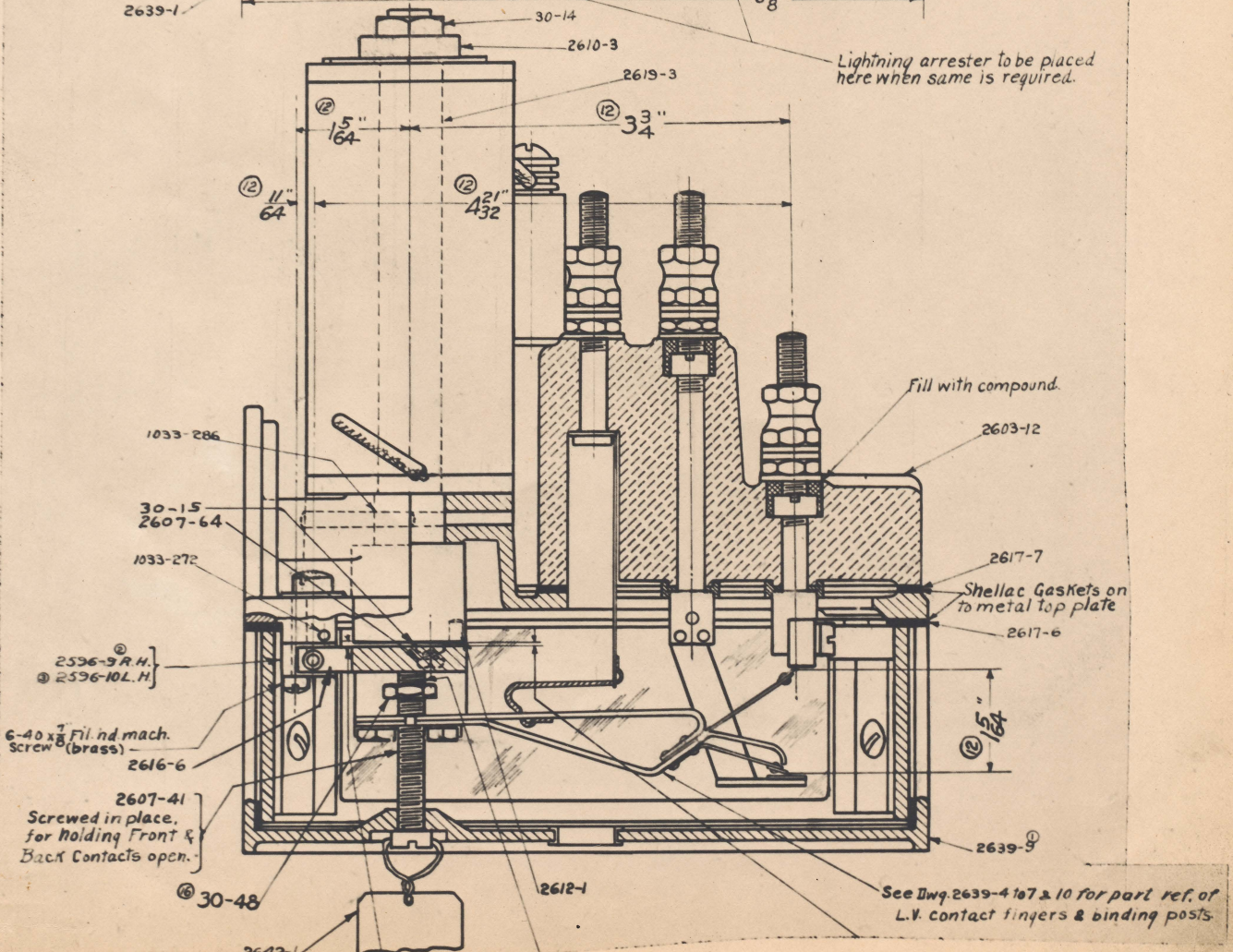
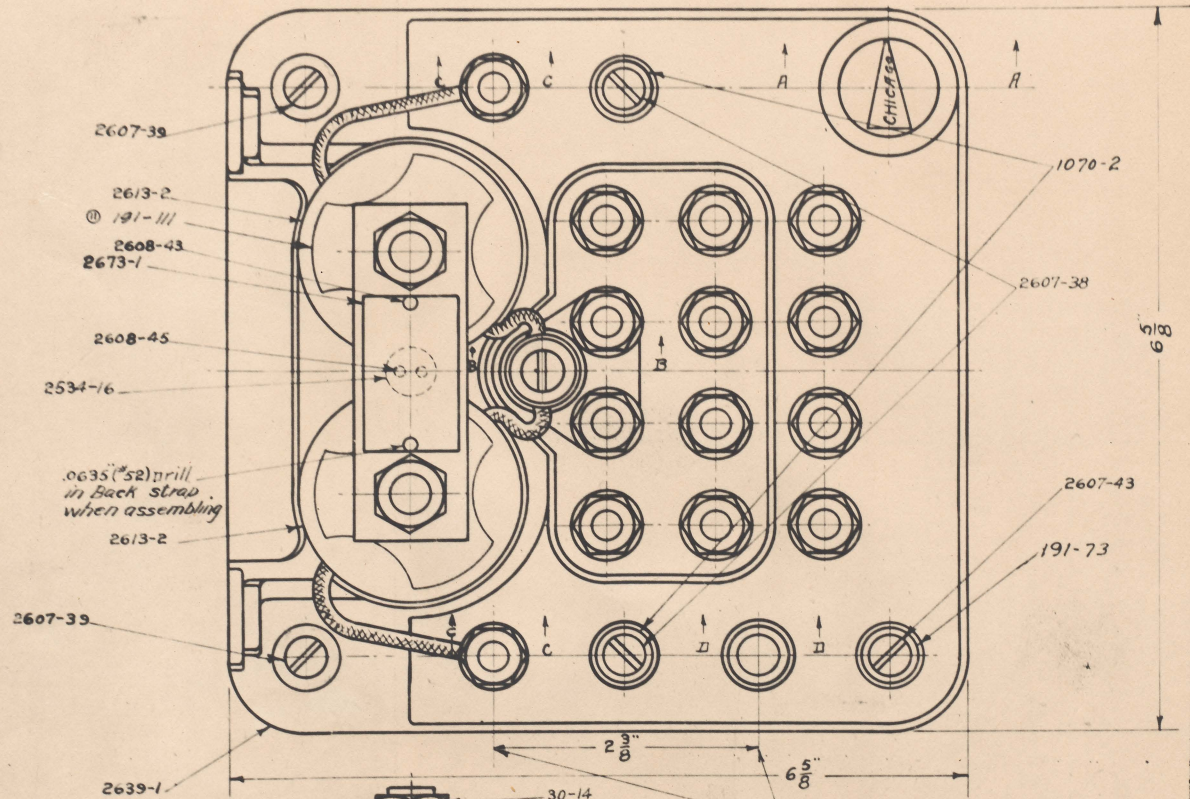
#1721-53 ROCKER ARM COMPLETE

ASSEMBLY LIST 1534-1 to 30			TITLE STYLE "R" RELAY 4 POINT FRONT AND BACK CONTACT AND RESISTANCE AS SPECIFIED. APPROVED— CHICAGO RAILWAY SIGNAL & SUPPLY CO.
SHEET NO.	CHECKED BY	DATE	
CONT. ON SHEET NO.			
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	DESCRIPTION
	2639-1 A	1	Top Plate with Cores, Armatures and Back Strap Complete
	2639-1	1	Top Plate only
	2603-12	1	Porcelain only
	2596-9	1	A.L.Trunion Block R.H.Complete
	2596-10	1	A.L. " " L.H. "
			-- BASE --
	2639-9	1	Base
	495-38	4	Springs
		4	Screws 14-24 x 1/4" R.H.B.M.
	2617-6	1	Gasket, Cork for base
	2567-3	4	Glass
	2607-41	1	Locking Screw
	30-48	1	Lock Nut
	2617-7		Gasket, Cork for Porcelain
	See		Neutral Contact Group #2639-4 to 24
	"		Coils 2613-1 to 8 and 2654-1 to 8

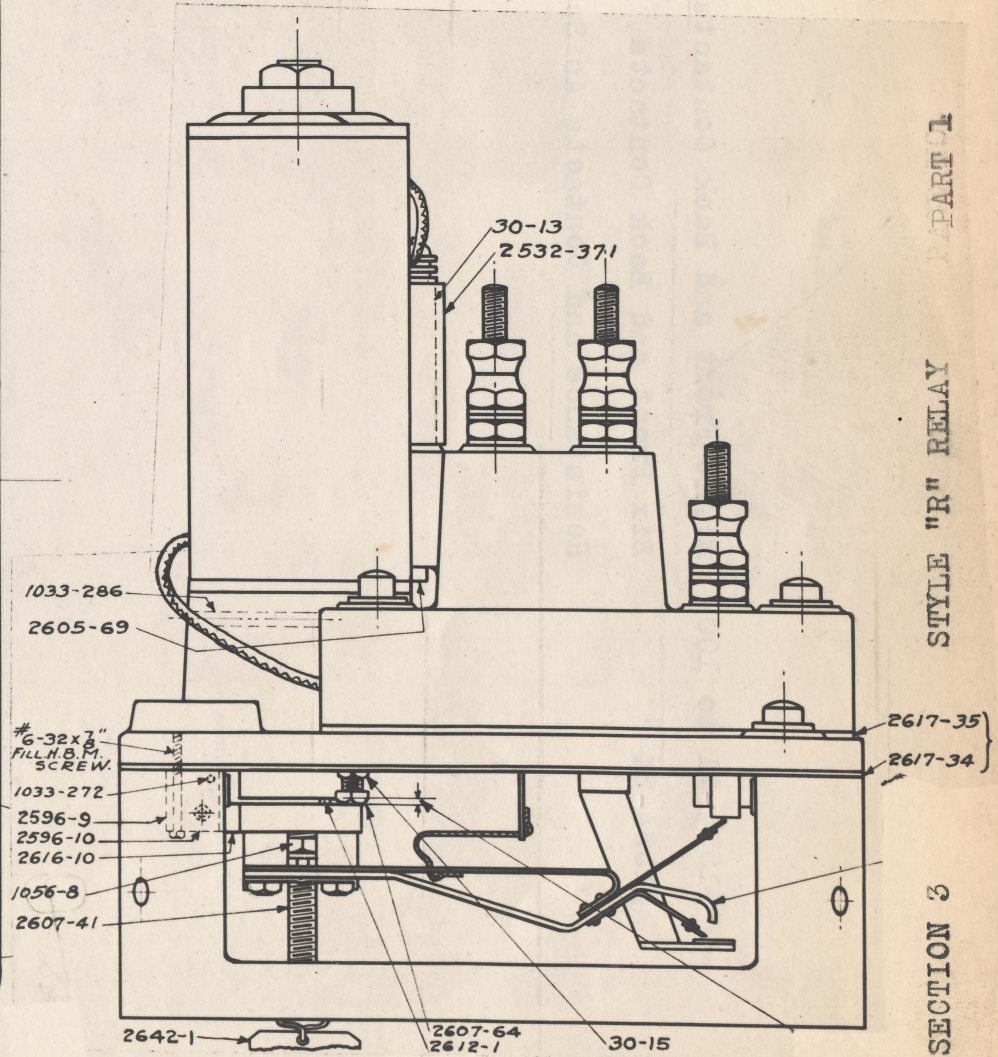
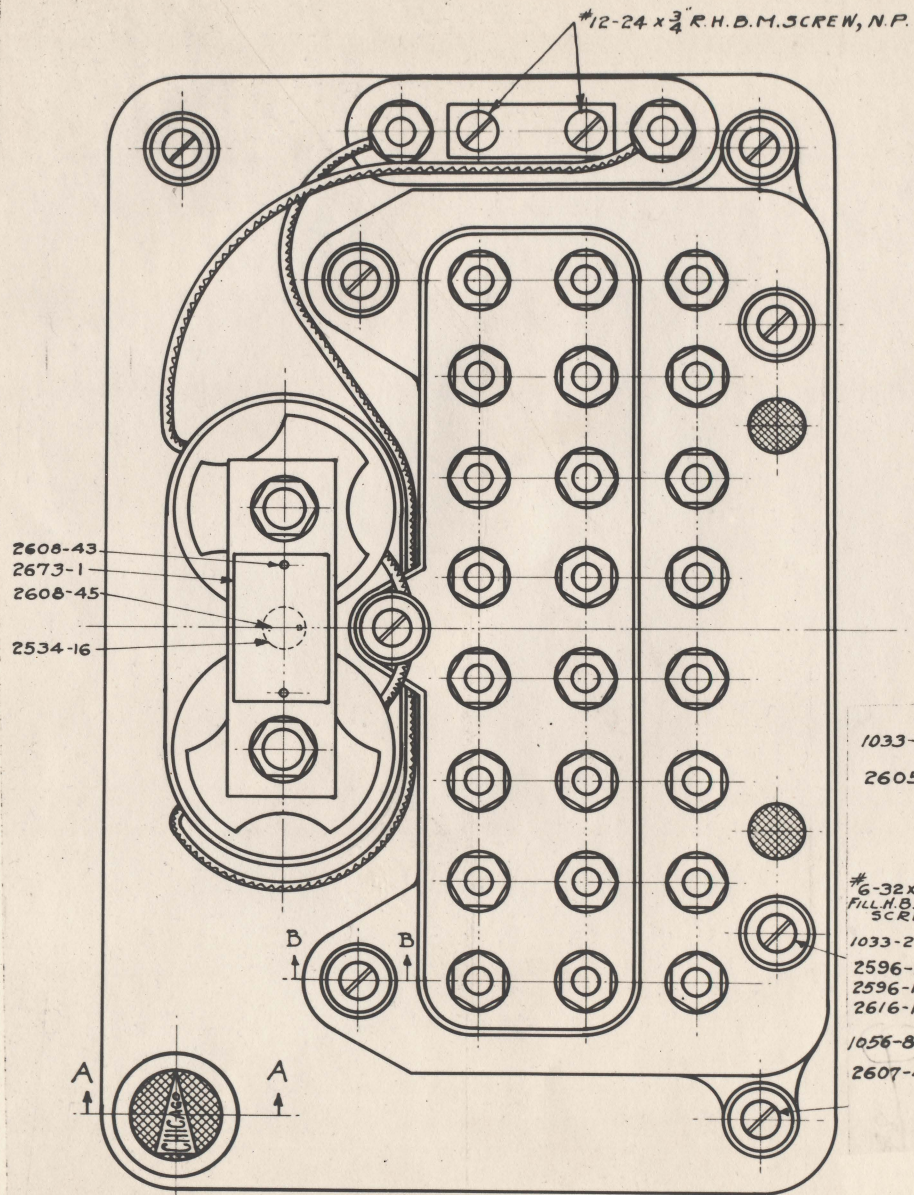
REVISIONS

SECTION 3

PART 1



SECTION 3 PART 1 (STYLE "R" RELAY) # 1534-1 to 30



OVER

PART 1

STYLE "R" RELAY

SECTION 3

#1534-71 to 100 Eight Front and Back Contacts
#1534-34 Six Front and Back Contacts
Resistance and Contacts As Spec.

ASSEMBLY LIST 1535-31 to 61			TITLE
SHEET NO.	CHECKED BY	DATE	STYLE S-2 POLARIZED RELAY
CONT. ON SHEET NO.			CAPACITY 4 FRONT & BACK NEUTRAL CONTACTS
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	4 " " POLAR "
			Number of Contacts & Resistance as APPROVED— Specified.
			CHICAGO RAILWAY SIGNAL & SUPPLY CO.
			DESCRIPTION
			TOP PLATE
	2651-2A	1	Consisting of Neutral Core and Armature Comp. " " Polar " " " "
	2651-2	1	Top Plate
	2603-17	1	Porcelain
	2596-9	2	Trunion Block R.H.Complete
	2596-10	2	" " L.H. "
	2651-3	1	Rocker L.H.
	2651-4	1	" R.H.
	2651-13	1	Base Complete
	2651-1	1	"
	495-38	4	Spring
		4	Screws 14-24x 1/4 R.H.B.M.
	2617-27		Gasket, Cork for Porcelain
	2617-26		Gasket, Cork for Base
	2567-11	2	Glass Side
	2567-12	2	" F.& B.
	2607-41	1	Shipping Screw
	30-48	1	Nuts
	2651-8	4	Polar Contact Group
	See		Neutral " " #2639-4 to 24
	"		Coils 2613-1 to 8 and 2654-1 to 8

REVISIONS

SECTION 3

PART 2

1033-436

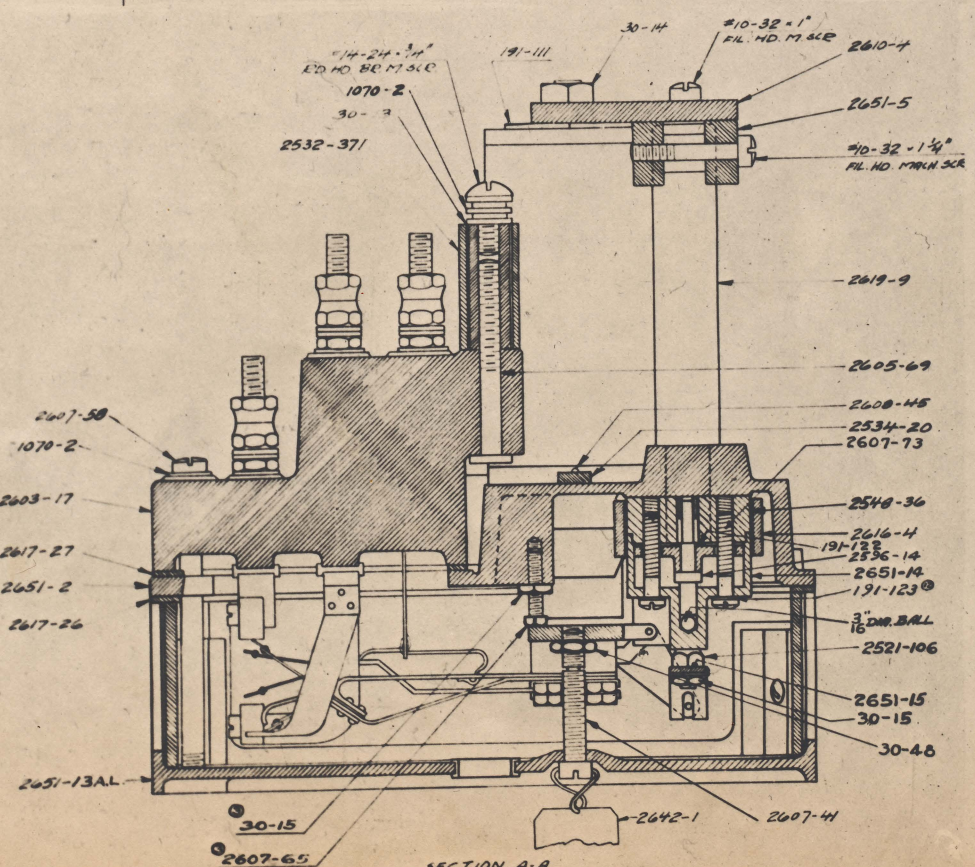
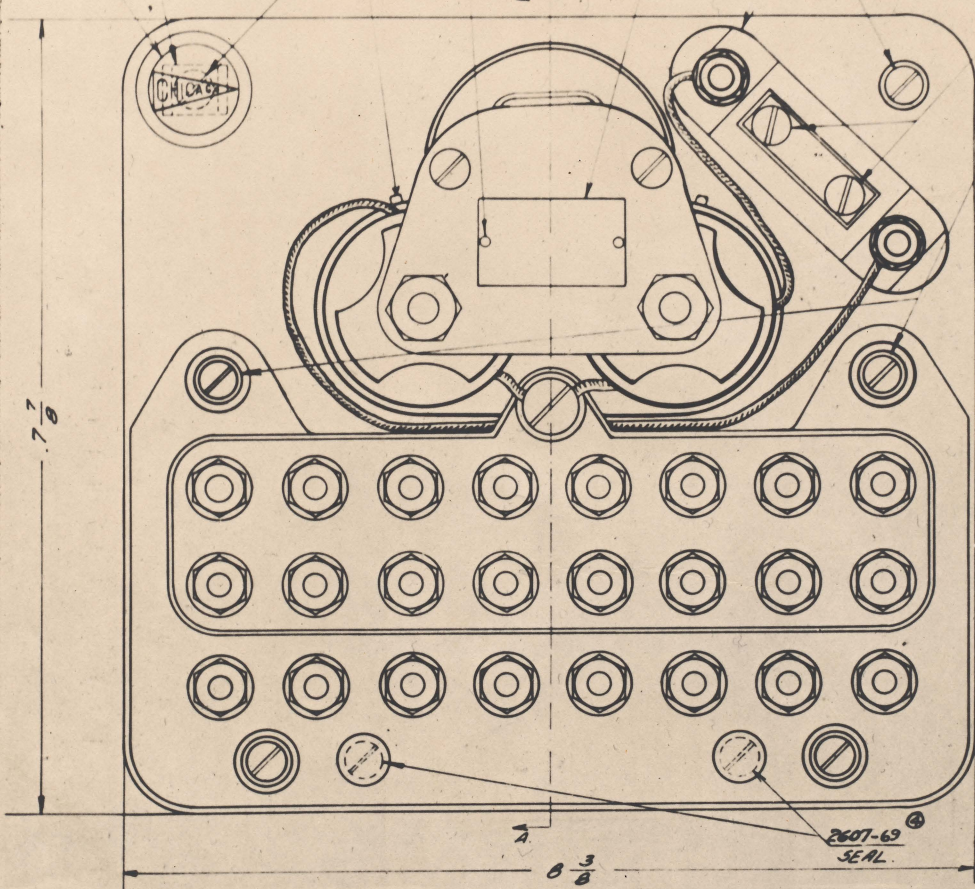
1056-10AL

SEAL 91-74
2607-39

2608-43

2673-1

2607-39
1070-2



SECTION 3 - PART 2 STYLE S2 RELAY #1535-31 to 60.

ASSEMBLY LIST			TITLE
2613-1 to 8			STYLE "R" RELAY COILS
2654-1 to 8			" IL " "
SHEET NO.	CHECKED BY	DATE	" SL & 2 " "
CONT. ON SHEET NO.			" F.R.
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	APPROVED—
			SPECIFY CATG.NO & RESISTANCE CHICAGO RAILWAY SIGNAL & SUPPLY CO.
			DESCRIPTION
			<u>REGULAR SPOOL WOUND</u>
	2613-3	2	Spool Wound Coil, Enameled Wire
			<u>SLOW ACTING</u>
	2613-6	2	Spool Wound Coil, Enameled Wire
			<u>REGULAR FORM WOUND</u>
	2654-2	2	Form Wound Coil- S.C.C.Wire Impregnated
	2654-6	2	" " " Enameled Wire
			<u>SLOW ACTING FORM WOUND</u>
	2654-4	2	Form Wound Coil- S.C.C.Wire Impregnated
	2654-8	2	" " " Enameled Wire
			NOTE: When Slow Acting Form Wound Coils are to take the place of Spool Wound, one tube No. 2670-3 for that Coil is required.
	2670-3	1	Tube

REVISIONS

SECTION 3

PART 1 & 2

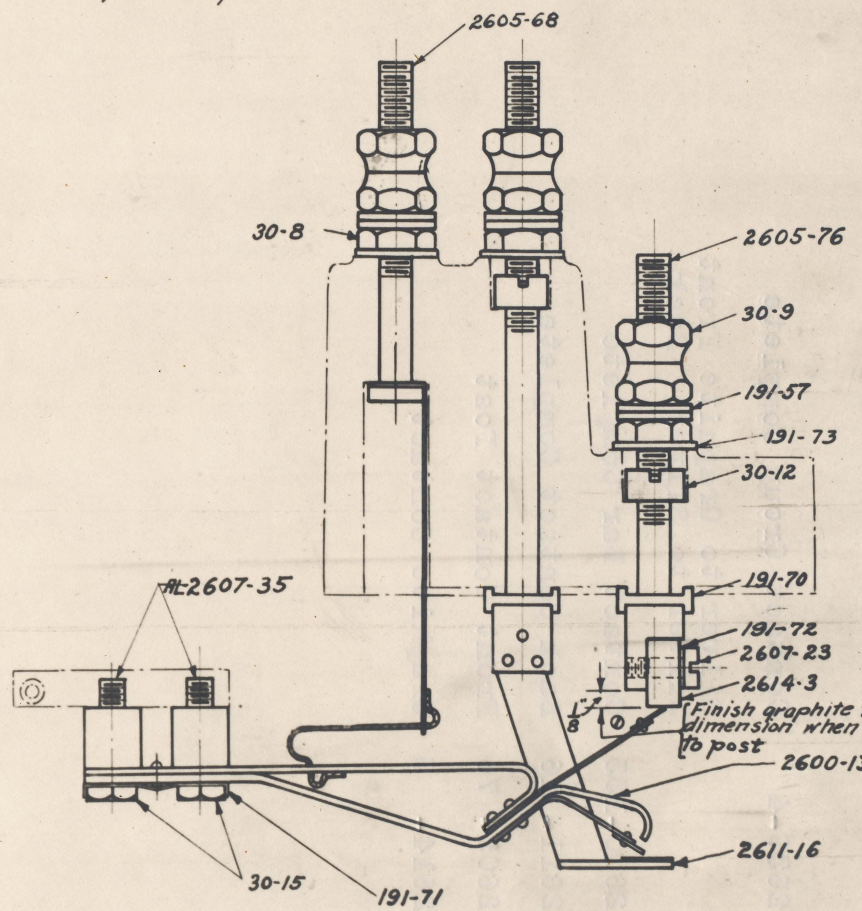
ASSEMBLY LIST 2639-4 to 24 Inclusive			TITLE STYLE R RELAY CONTACT GROUP " IL " " " " SL & 2 RELAY " " " F.R. " " "		
SHEET NO.	CHECKED BY	DATE	APPROVED—		
CONT. ON SHEET NO.		CHICAGO RAILWAY SIGNAL & SUPPLY CO.			
DRAWING NO. OR OPERATION CARD	CAT. NO.	NO. REQ.	DESCRIPTION		
			FRONT	--CONTACT GROUPS--	BACK
	2639-4		R.H. Silver to Graphite		R.H. Silver to Silver
	2639-13		L.H. " " "		L.H. " " "
	2639-5		" " "		-----
	2639-6		-----		Silver to Silver
	2639-7		Dummy-----		-----
	2639-11		R.H. Silver to Silver		Silver to Silver
	2639-14		Graphite to Graphite-----		
	2639-15		-----		Graphite to Graphite
	2639-16		Graphite to Graphite	" " "	
	2639-17		Aluminum to Graphite		Silver to Silver
	2639-18		" " "		-----
	2639-19		Platinum to platinum		Platinum to Platinum
	2639-20		" " "		-----
	2639-21		Platinum to Graphite		Platinum to Platinum
	2639-22		-----		Silver to Graphite
	2639-23		Copper to Graphite		-----
	2639-24		Platinum to Graphite		-----
	2614-3		Graphite Contact Block		-----
	2600-133		Contact Bar Complete Front & Back Silv.Conts		
REVISIONS	2600-136		" " "	"	Silver Contact only
	2600-135		" " "	Back	" " "
	2600-157		" " "	Front & Back Silver for	

Polarized Relay.

2639-4 AL

To be used only in conjunction with A.L. for complete Relays

B.C. = Silver to Silver
F.C. = Silver to Graphite.

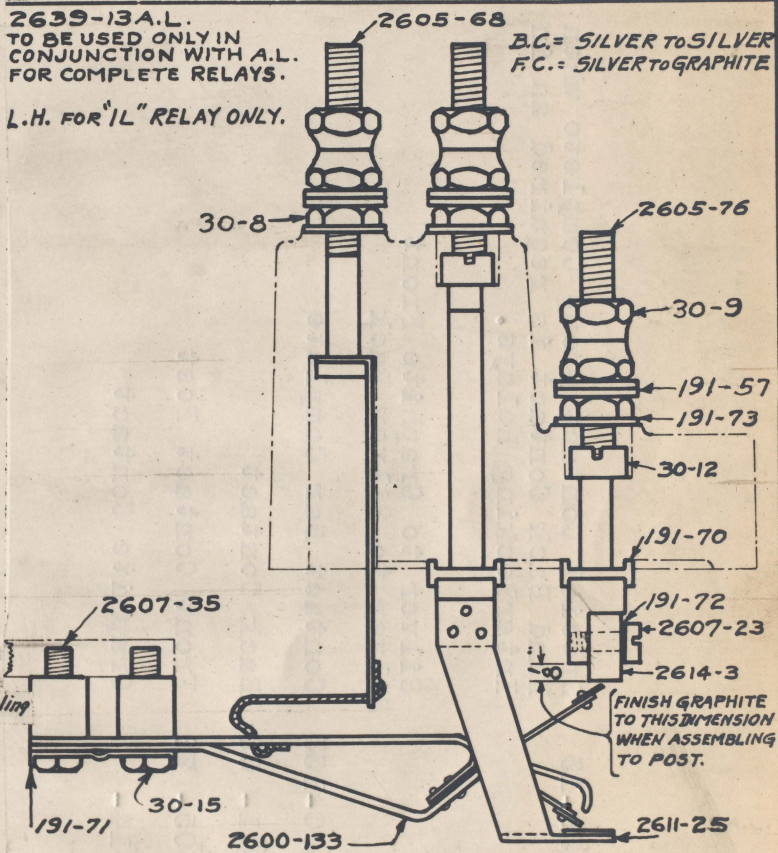


Gen. Drawg. 1534-1

2639-13A.L.
TO BE USED ONLY IN CONJUNCTION WITH A.L. FOR COMPLETE RELAYS.

L.H. FOR "1L" RELAY ONLY.

B.C. = SILVER TO SILVER
F.C. = SILVER TO GRAPHITE



GEN. DRAW'G. 1550-1

2639-13 Special Contact Group Complete when Left
Hand Back Contact is required as in
Interlocking Relays.

Silver to Graphite Front
Silver to Silver Back

2600-133 Contact Bar Complete

2611- 68 Back Contact

2605- 76 Front Contact Post

2614- 3 Graphite Contact

2639-4 Contact Group Complete

Silver to Graphite Front
Silver to Silver Back

2600-133 Contact Bar Complete

2611- 16 Back Contact Complete

2605- 76 Front Contact Post

2614- 3 Graphite Contact

1545-11 A.L.

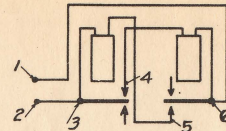
CHICAGO RAILWAY SIGNAL & SUPPLY COMPANY
 STYLE FR D.C. FLASHING RELAY SECTION 3, PART 4 1928

THE STYLE FR FLASHING RELAY SHOWN ON PRINT 1545 HAS BEEN DESIGNED FOR THE CONTROL OF THE FLASHING LIGHT HIGHWAY CROSSING SIGNAL.

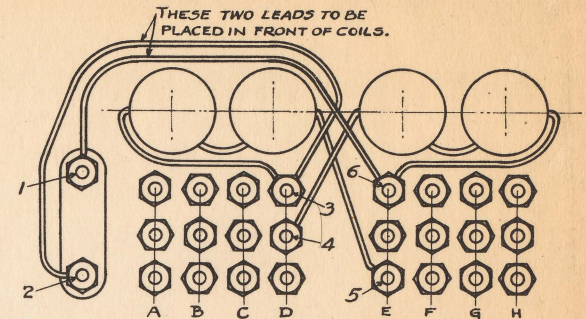
THE RELAY IS CONSTRUCTED TO GIVE APPROXIMATELY 30 OPERATIONS PER MINUTE WHEN OPERATING ON A PRESCRIBED VOLTAGE.

FOR THE SEVERE CONTACT SERVICE THAT IS REQUIRED OF AN INSTRUMENT OF THIS CHARACTER, WE RECOMMEND THAT THE THREE SPARE CONTACTS BE CONNECTED IN MULTIPLE IN THE CONTROLLING CIRCUITS OF THE FLASH LIGHTS.

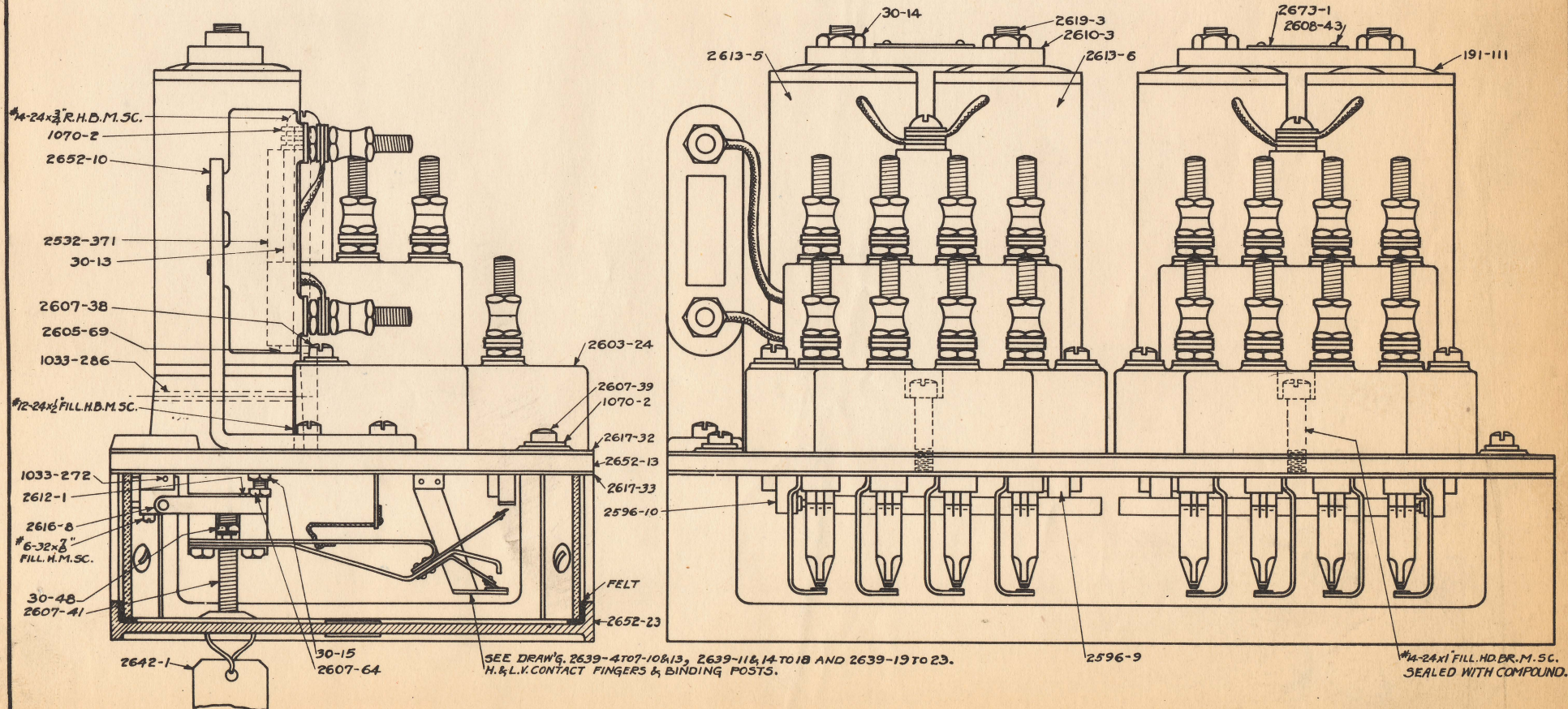
THE OPERATING VOLTAGE AND CONTACT COMBINATION WILL BE FURNISHED AS SPECIFIED ON ORDERS.



WIRING DIAGRAM.



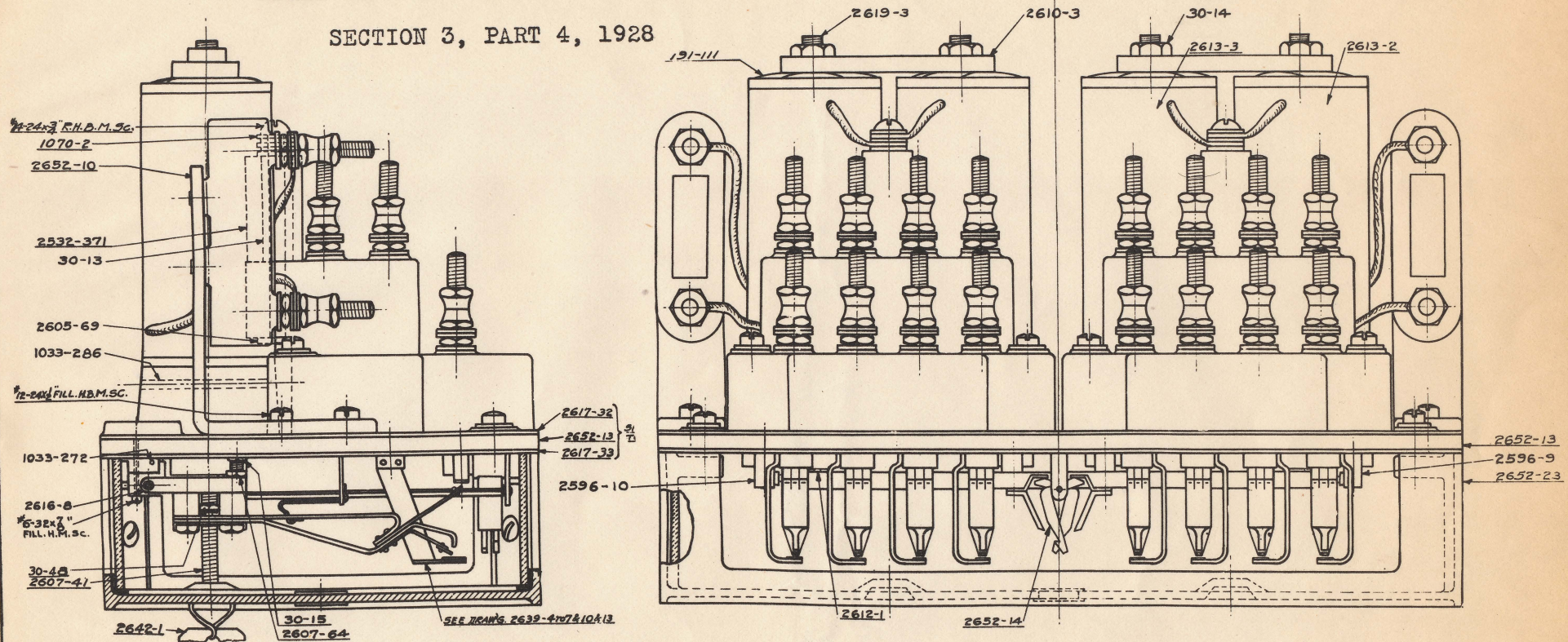
WIRING DIAGRAM.



CHICAGO RAILWAY SIGNAL & SUPPLY COMPANY

STYLE IL D.C. INTERLOCKING RELAY

SECTION 3, PART 4, 1928



STYLE IL D.C. INTERLOCKING RELAY NO 1550 HAS SEVERAL NEW AND IMPROVED FEATURES AND MAY BE USED ANYWHERE AN INTERLOCKING CROSSING ALARM RELAY IS REQUIRED.

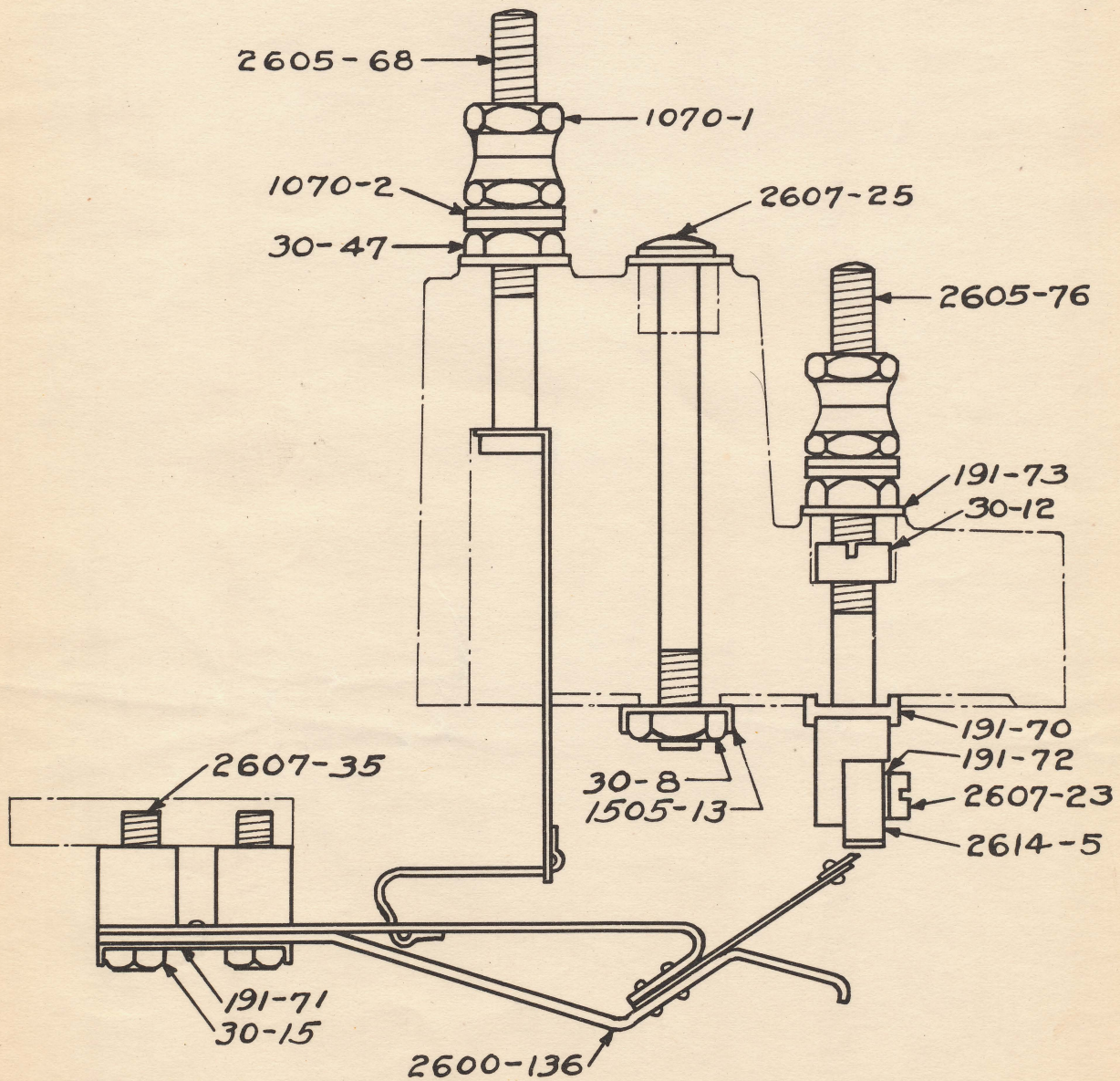
THE INTERLOCKING PARTS WHICH CONNECT THE TWO ARMATURES ARE SIMPLE AND RUGGED IN DESIGN AND CONSTRUCTION.

THE RELAY, BECAUSE OF THE IMPROVED INTERLOCKING FEATURE, HAS A CAPACITY OF FOUR FRONT AND BACK CONTACTS ON EACH SIDE.

THE RESISTANCE AND CONTACT COMBINATIONS WILL BE FURNISHED AS SPECIFIED ON ORDERS.

2639-25 A.L.
 TO BE USED ONLY IN CONJUNCTION
 WITH A.L. FOR COMPLETE RELAYS.

F.C. = SILVER TO SILVER.



GEN. DRAW'G. 1534-22

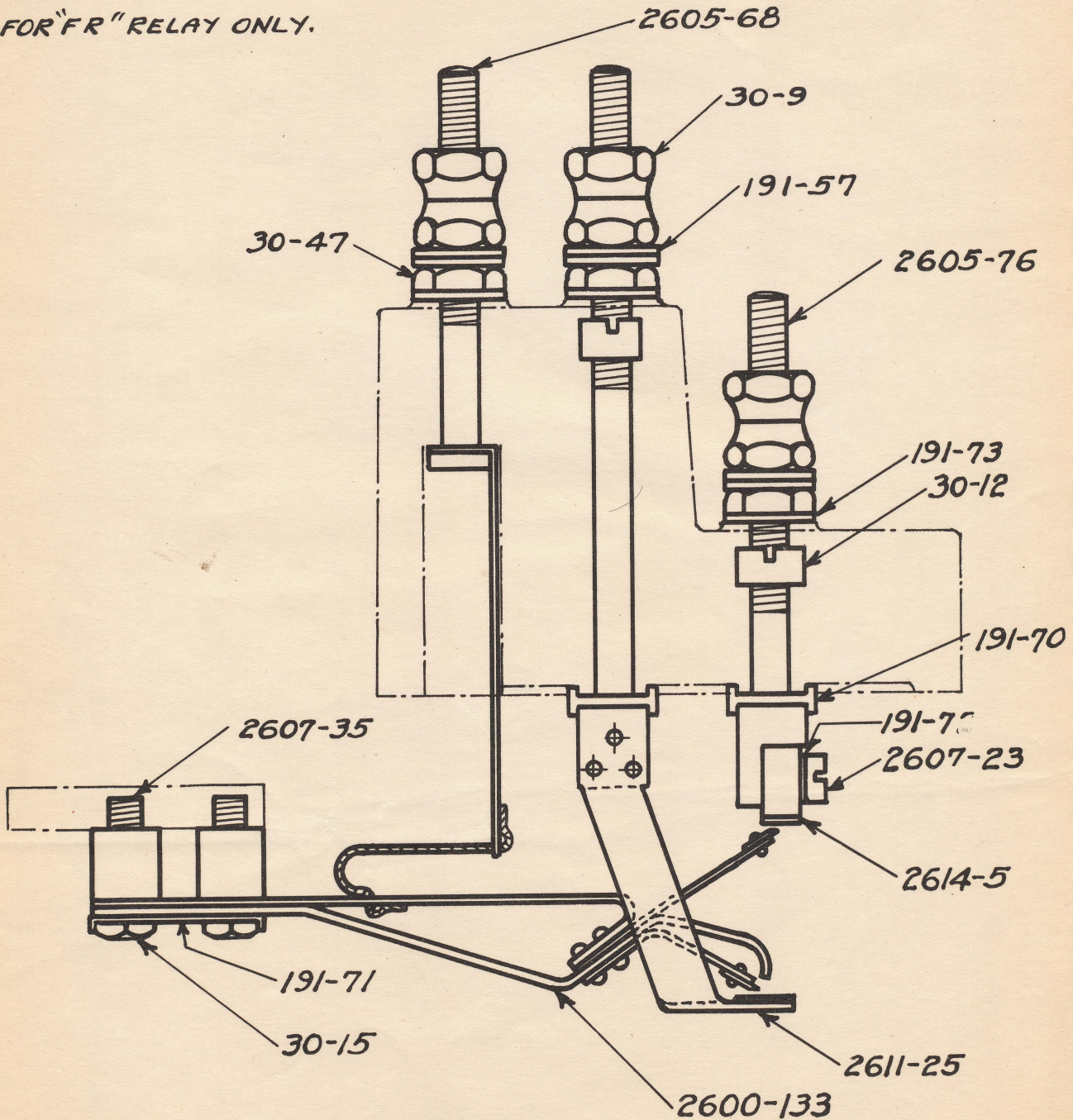
REQ. 3844.

SECTION 3	#2639-25	NEUTRAL CONTACT GROUP COMPLETE
		FRONT ONLY, SILVER TO SILVER
PART 1-2-3 & 4	#2600-136	CONTACT BAR COMPLETE
	#2614-5	SILVER CONTACT
	#2605-76	FRONT CONTACT POST

2639-26 A.L.
 TO BE USED ONLY IN CONJUNCTION
 WITH A.L. FOR COMPLETE RELAYS.

B.C. - SILVER TO SILVER.
 F.C. - SILVER TO SILVER.

L.H. FOR "FR" RELAY ONLY.



GEN. DRAW'G. 1545-1 & II.

REQ. 3880.

SECTION 3

#2639-26

NEUTRAL CONTACT GROUP COMPLETE
 FRONT & BACK SILVER TO SILVER

PART 1-2-3 & 4

#2600-133

CONTACT BAR COMPLETE

#2614-5

SILVER CONTACT

#2611-25

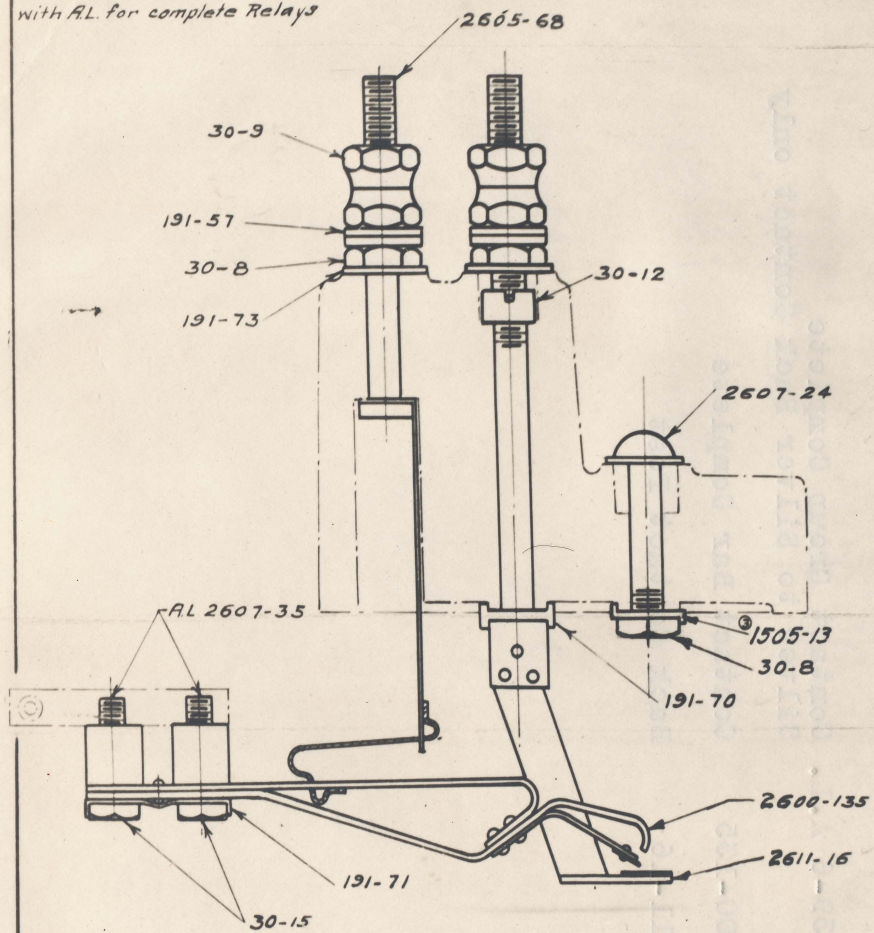
BACK CONTACT COMPLETE (LEFT HAND)

#2605-76

FRONT CONTACT POST

2639-6 A.L.
To be used only in conjunction
with A.L. for complete Relays

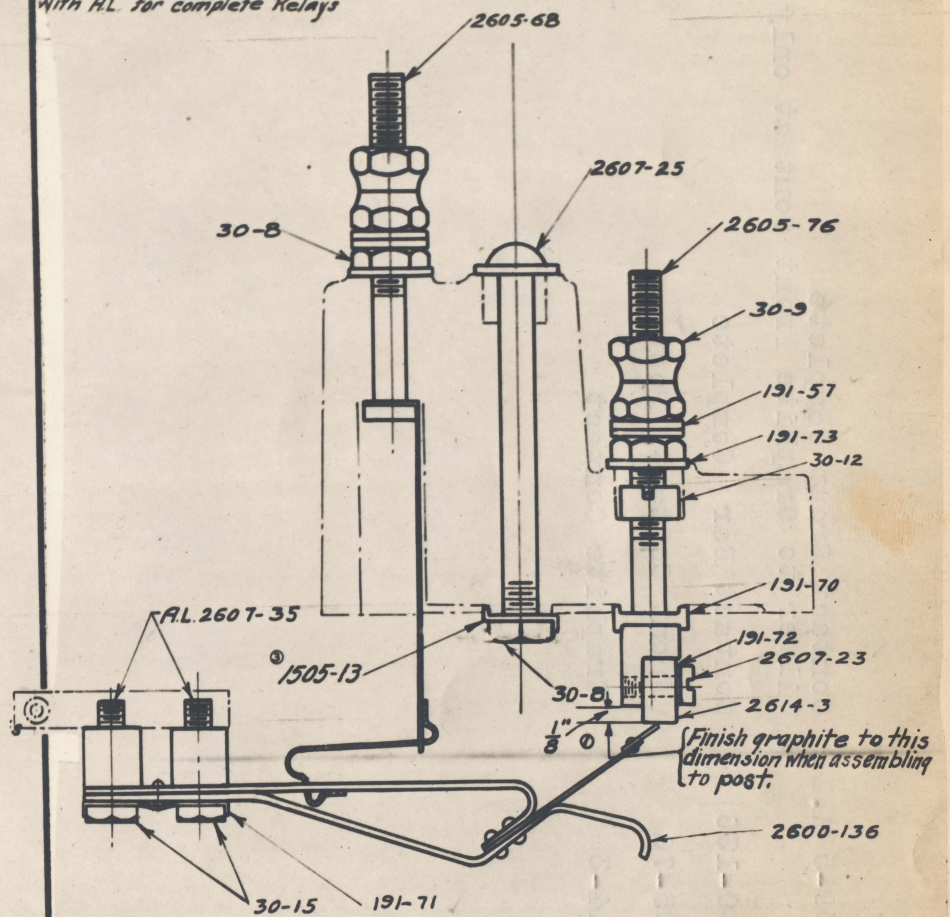
B.C. = Silver to Silver.



Gen. Drwg. 1534-7

2639-5 A.L.
To be used only in conjunction
with A.L. for complete Relays

F.C. = Silver to Graphite.



Gen. Drwg. 1534-2

2639-5 A.L. Contact Group Complete
Silver to Graphite Front Contact only

2600-136 Contact Bar Complete

2605-76 Front Contact Post

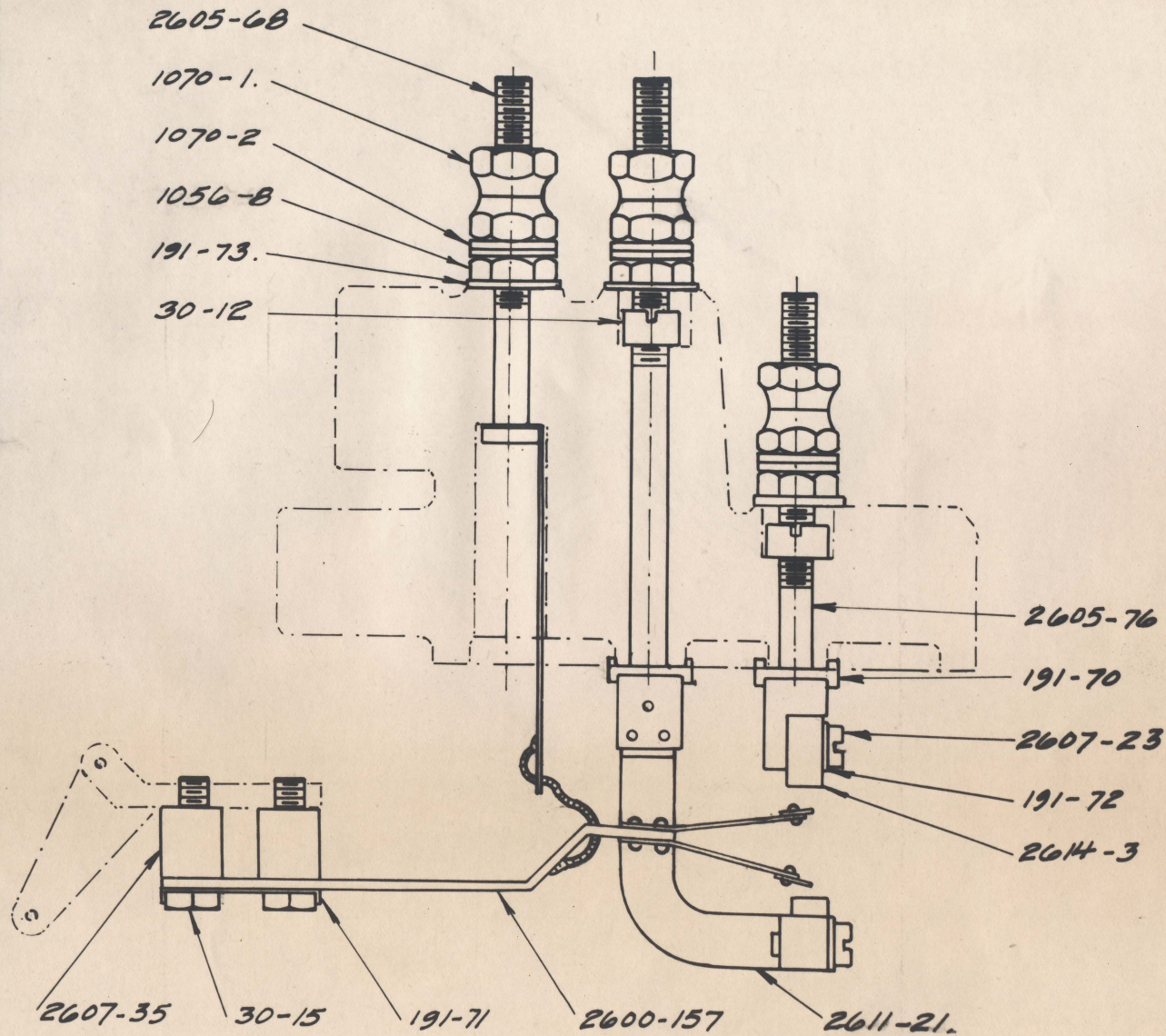
2614-3 Graphite Contact

2639-6 A.L. Contact Group Complete
Silver to Silver Back Contact only

2600-135 Contact Bar Complete

2611-16 Back Contact Post

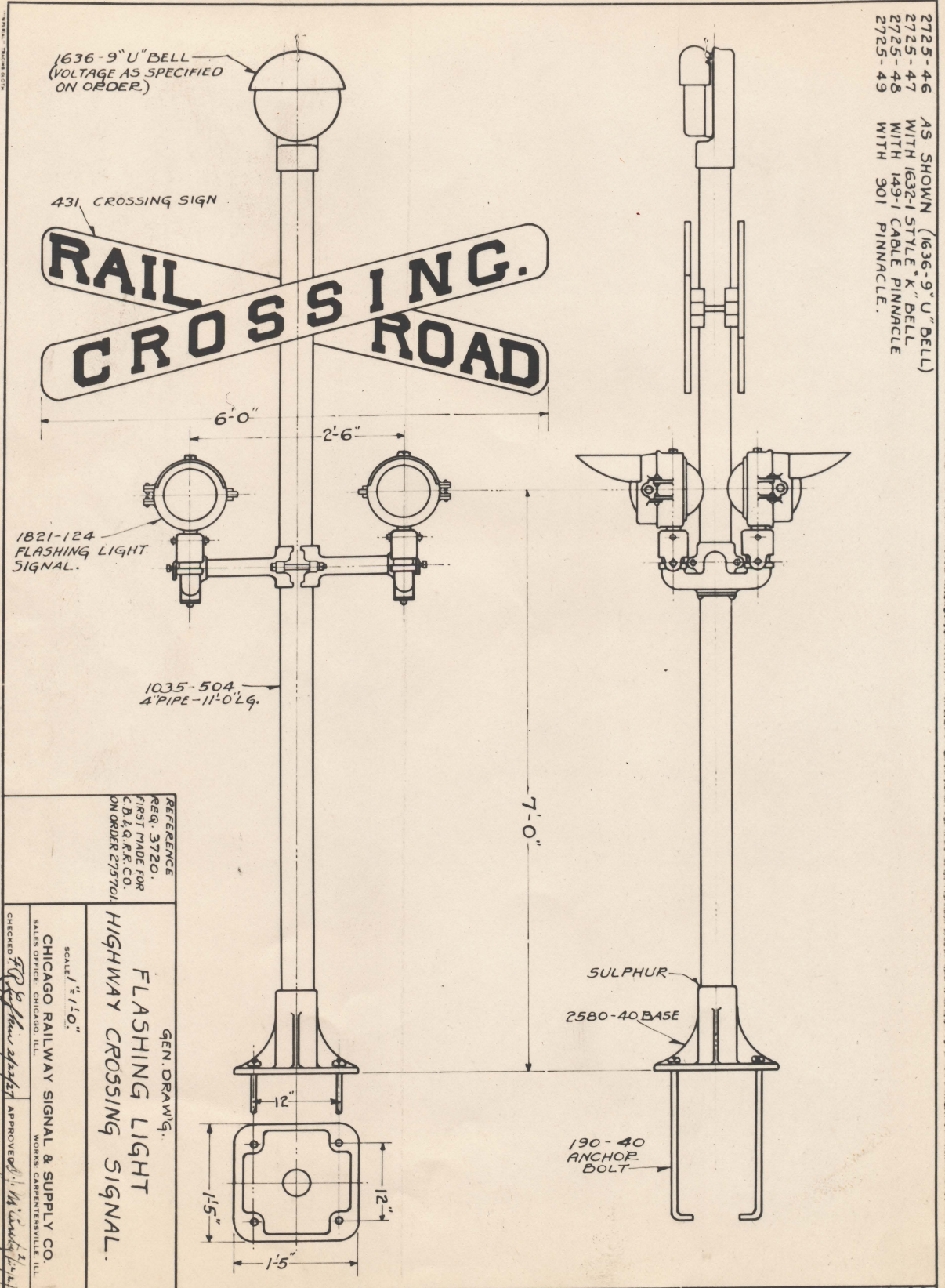
2651-8 POLAR FINGER COMP. WITH BACK AND FRONT CONTACTS.



SECTION 3 - PART 2

NO. 2651-8

GEN. DWG. 1535-31. SEE REQ. 3042.



2725-46 AS SHOWN (1636-9" U" BELL)
 2725-47 WITH 1632-1 STYLE "K" BELL
 2725-48 WITH 149-1 CABLE PINNACLE
 2725-49 WITH 901 PINNACLE.

REFERENCE
 REQ. 3720.
 FIRST MADE FOR
 C.B. & G.A.R. CO.
 ON ORDER E79701.

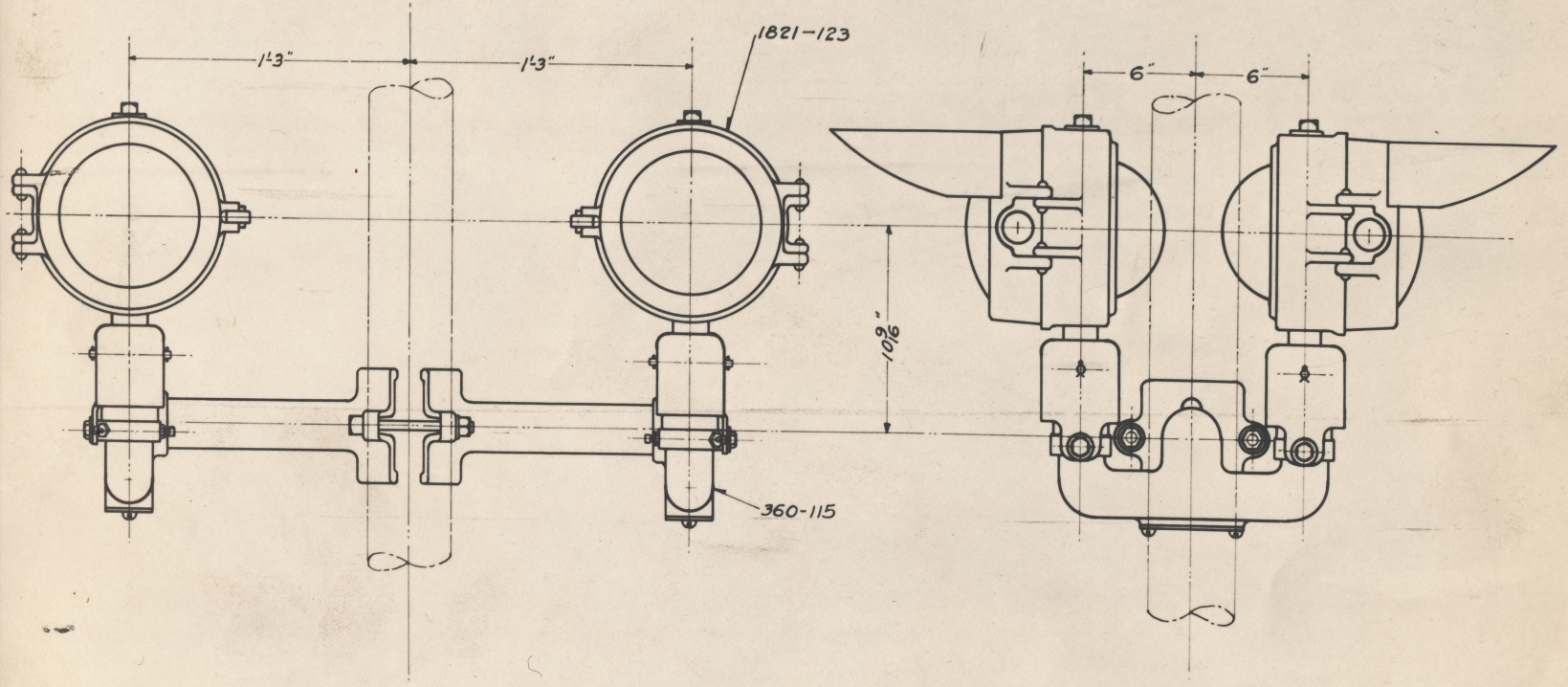
GEN. DRAWING.
 FLASHING LIGHT
 HIGHWAY CROSSING SIGNAL.
 SCALE 1/2" = 1'-0"
 CHICAGO RAILWAY SIGNAL & SUPPLY CO.
 SALES OFFICE CHICAGO, ILL.
 WORKS CARPENTERSVILLE, ILL.
 CHECKED BY *[Signature]* APPROVED BY *[Signature]*

2725
 46
 49
 (A)

REVISIONS.
 FLASHING LIGHT
 WAS G.S. 2/25/27

1821-124 A.L.

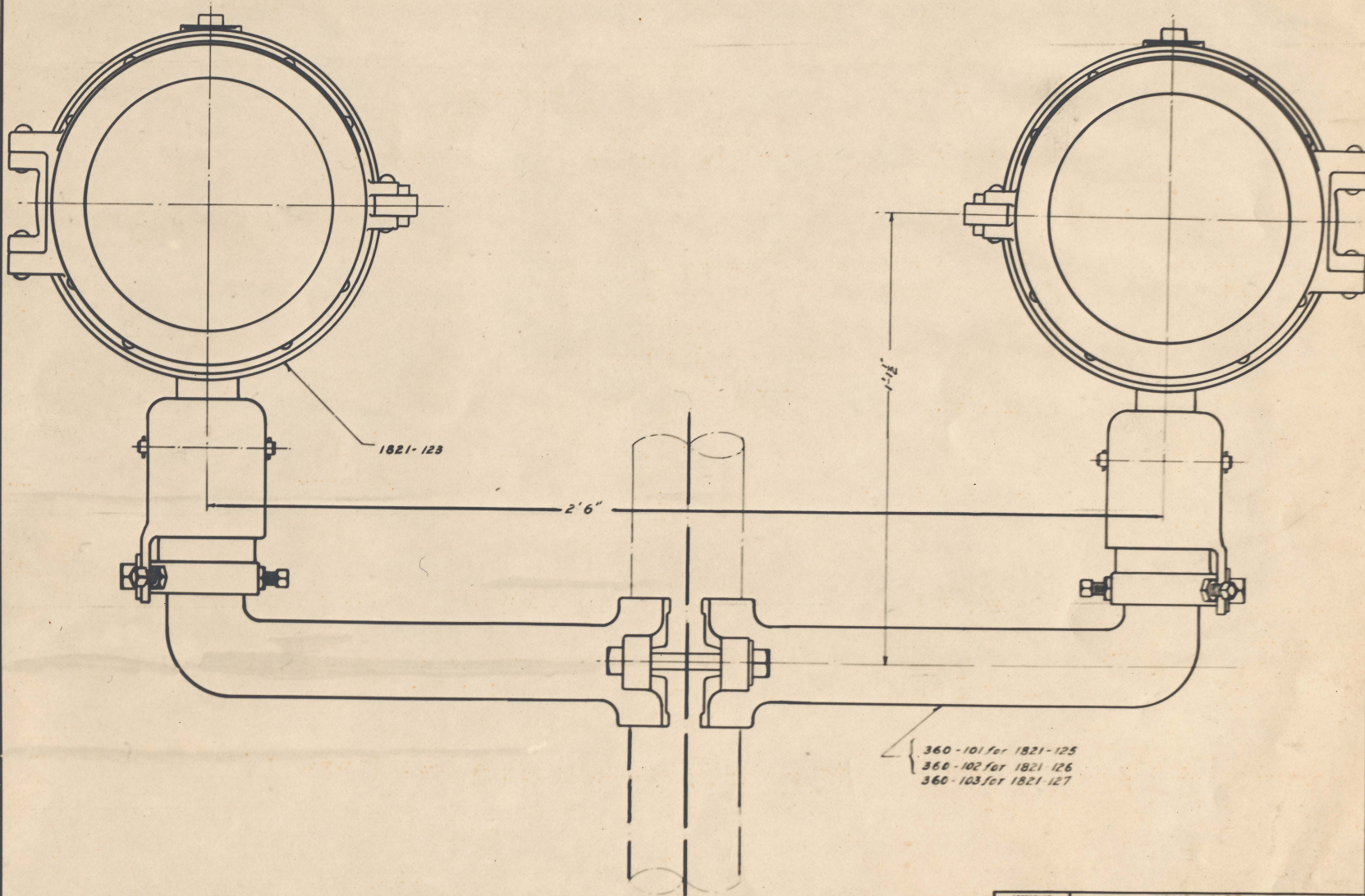
REVISIONS



REFERENCE REQ. 3631	GEN. DRAWG. FLASHING LIGHT SIGNAL	1821 124
SCALE 3"=1'-0" CHICAGO RAILWAY SIGNAL & SUPPLY CO. GENERAL OFFICES CHICAGO, ILL. HUNTER GARDENERSVILLE, ILL.		
CHECKED: [Signature] 12-3-16 APPROVED: [Signature] 7/26		(B)

PART 1
SECTION 4

1821-125 A.L. for mounting on 3" (3 $\frac{1}{2}$ " O.D.) Pipe
 1821-126 A.L. " " " 3 $\frac{1}{2}$ " (4" O.D.) Pipe
 1821-127 A.L. " " " 4" (4 $\frac{1}{2}$ " O.D.) Pipe



360-101 for 1821-125
 360-102 for 1821-126
 360-103 for 1821-127

REFERENCE
 See Reg 5793
 Gen. Drawg
 2725-24885

GENERAL DRWG.

Flashing Light Signal
 Adjustably Mounted on Bracket
 For 3" 3 $\frac{1}{2}$ " & 4" Pipe

SCALE 6" = 1'
 CHICAGO RAILWAY SIGNAL & SUPPLY CO.
 SALES OFFICE CHICAGO, ILL. WORKS CARPENTERSVILLE, ILL.

CHECKED *[Signature]* 5/2/27 APPROVED *[Signature]*

1821
 125
 TO
 127
 (B)

PART ONE

SECTION FOUR

