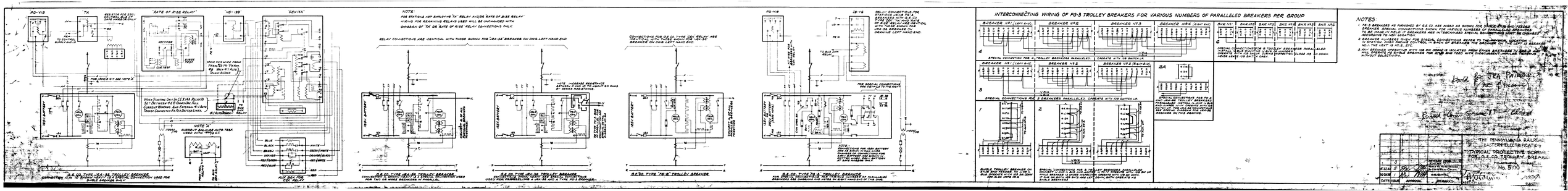
RQ-V18
"TA"
"RATE OF RISE RELAY"
HG-199
"GEA-1A"
TO CONTROL SUPPLY AND G
FOR 1800/5 C.T. SEE NOTE "A"
HIGH STARTING CHG. (C.E.V.1A) RELAY IS SET BETWEEN 4 & 8 CHGS. ON PRI. CURRENT WITHOUT ANY EXTERNAL R.C. & R.C. TRANSF. CONNECTIONS AS IS CUSTOMARY.
NOTE "A"
CURRENT BAL. HOOD AUTO TEST USED WITH "TYPE E2"
AUX. BOX FOR "GEA" RELAY
RELAY CONNECTIONS ARE IDENTICAL WITH THOSE SHOWN FOR "GEA-3A" BREAKER ON DWG. LEFT HAND END
CONNECTIONS FOR G.E.CO. TYPE "GEA" RELAY ARE IDENTICAL WITH THOSE SHOWN FOR "GEA-3A" BREAKER ON DWG. LEFT HAND END
RQ-V18
"TB-V5"
RELAY CONNECTIONS FOR BREAKERS WITH G.E.CO. TYPE "TB-V5" RELAY ARE IDENTICAL WITH THOSE SHOWN FOR "GEA-3A" BREAKER ON DWG. LEFT HAND END
G.E.CO. TYPE "GEA-3A" TROLLEY BREAKER
CONNECTIONS FOR SINGLE BREAKER ONLY
G.E.CO. TYPE "GEA-3A" TROLLEY BREAKER
CONNECTIONS FOR TWO BREAKERS IN PARALLEL
G.E.CO. TYPE "GEA-3A" TROLLEY BREAKER
USED FOR PARALLELING 2 OR 3 BREAKERS
G.E.CO. TYPE "TB-5" TROLLEY BREAKER
G.E.CO. TYPE TB-5 TROLLEY BREAKER
CONNECTIONS FOR TWO BREAKERS IN PARALLEL
INTERCONNECTING WIRING OF FG-3 TROLLEY BREAKERS FOR VARIOUS NUMBERS OF PARALLELED BREAKERS PER GROUP
BREAKER NO.1 (LEFT END)
BREAKER NO.2
BREAKER NO.3
BREAKER NO.4 (RIGHT END)
SPECIAL CONNECTION FOR 4 TROLLEY BREAKERS PARALLELED
OPERATE WITH ONE SWITCH UP
SPECIAL CONNECTIONS FOR 3 BREAKERS PARALLELED OPERATE WITH ONE SWITCH UP
SINGLE TROLLEY BREAKER W/ SYNC. SWITCH. SEE NOTE 2 ON BUS CHART WITH 4 OR 5 CONN. SEE ALSO NOTE 1A
SPECIAL CONNECTIONS FOR 2 TROLLEY BREAKERS PARALLELED OPERATE WITH ONE SWITCH UP
SINGLE BREAKER (4 UNDER INSPECTION) OPERATE WITH ONE SWITCH UP. SEE NOTE 2 ON BUS CHART WITH 4 OR 5 CONN.
NOTES:
1. G.E.CO. TYPE "GEA" BREAKERS AS FURNISHED BY G.E.CO. ARE WIRED AS SHOWN FOR SINGLE-PHASE BUS-PROTECTIVE BREAKER. SPECIAL CONNECTIONS SHOWN FOR OBVIOUS NUMBERS OF PARALLELED BREAKERS PER GROUP TO BE MADE IN FIELD. IF BREAKERS ARE INTERCHANGED SPECIAL CONNECTIONS MUST BE CHANGED ACCORDING TO NEW LOCATION.
2. SINGLE BREAKER, WHERE SYNC. SWITCH CONNECTIONS REFER TO THE SYNC. SWITCH SPECIFIED ON BUS CHART WITH 4 OR 5 CONN. SEE ALSO NOTE 1A. SPECIAL CONTROL "A" BACK OF BREAKER THE BREAKER ON THE LEFT IS BREAKER NO.1, THE NEXT IS NO.2, ETC.
3. ANY BREAKER OPERATING WITH ONE SWITCH UP (SHOWN IN DRAWING) FROM BREAKER NO.1 (LEFT END) WILL OPERATE AS SINGLE BREAKER FOR BUS AND FEED WITH OVERCURRENT RELAYS ON SUPPLY WITHOUT SELECTIVITY.
THE PENNSYLVANIA RAILROAD
LAUTER ELECTRIFICATION
TYPICAL PROTECTIVE SCHEME FOR G.E.CO. TROLLEY BREAKERS
No. 5100
DATE ISSUE APPROVAL REMARKS
9-23-41 P.R.R.
9-23-41 P.R.R.
ORIGINAL
ORIGINAL
ELECTRIC