

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

HAER  
PA  
57-PHILA  
712.

THIRTIETH STREET STATION,  
POWER DIRECTOR CENTER  
30<sup>th</sup> and Market Streets in the Amtrak Railroad Station  
Philadelphia  
Philadelphia County  
Pennsylvania

HAER No. PA-404-A

Photographer: Robert C. Stewart

March-April 1995

- PA-404-A-1 VIEW NORTHEAST OF MODEL BOARD REPRESENTING NORTHERN PORTION OF TRACKAGE MONITORED BY THE PHILADELPHIA POWER DIRECTORS CENTER; FREE-STANDING CABINET AT FAR RIGHT CENTER OF PHOTOGRAPH IS AN EARLY COMPUTER WHICH SUPPLANTED OPERATOR CONTROL FROM LAMOKIN TOWER IN THE 1980S; SWITCHBOARD CONSOLE #1 FOR CONTROLLING INDICATING LIGHTS IS AT LOWER RIGHT
- PA-404-A-2 VIEW NORTHWEST OF MODEL BOARD; TELEPHONE COMMUNICATIONS WITH INTERLOCK TOWERS AND SUB-STATIONS WAS MAINTAINED USING THE SWITCHBOARD AT THE PHOTOGRAPH'S LOWER LEFT OF CENTER; SWITCHBOARD CONSOLE #1 FOR CONTROLLING INDICATING LIGHTS IS AT LOWER LEFT OF THE PHOTOGRAPH
- PA-404-A-3 VIEW NORTHWEST OF MODEL BOARD AND OPERATOR'S STATION #1
- PA-404-A-4 VIEW NORTH OF MODEL BOARD; OPERATOR'S CONSOLE #1 IS IN THE LEFT FOREGROUND OF THE PHOTOGRAPH; COMMUNICATIONS MODULE AT CENTER FOREGROUND
- PA-404-A-5 VIEW SOUTHWEST OF MODEL BOARD FROM OPERATOR'S STATION #2; ROUND HOLE IN BOARD AT RIGHT CENTER OF PHOTOGRAPH WAS THE LOCATION FOR A CLOCK

(continued)

Index to Photographs  
Thirtieth Street Station,  
Power Director Center  
HAER No. PA-404-A (page 2)

- PA-404-A-6 VIEW SOUTHWEST OF MODEL BOARD AND OPERATOR'S STATION #2; CABINET IN FOREGROUND HOUSES A SUPERVISORY BOARD AND CONTROL SWITCHES FOR CIRCUIT BREAKERS
- PA-404-A-7 VIEW SOUTHEAST OF MAIN SUPERVISORY BOARD SHOWING PANELS 3 THROUGH 11; PANEL 3 AT FAR LEFT CONTAINS METERS FOR MONITORING POWER IN THE SYSTEM; PANEL 4 CONTAINS CONTROLS FOR CONTROLLING HEATERS TO KEEP TRACK TWITCHES FREE OF ICE AND SNOW; PANELS 5,6 AND 7 DATE TO THE 1935 INSTALLATION AND CONTROL THE CATENARY IN THE AREA OF THE STATION YARD, THESE WORK ON 120 VOLTS DIRECT CURRENT; PANEL 8 CONTAINS CIRCUIT BREAKERS (RUPTURE SWITCHES) WHICH CONTROL POWER TO INDIVIDUAL TRACKS IN THE STATION AREA; PANELS 9 AND 10 HOUSE CONTROLS FOR THE WEST PHILADELPHIA SUB-STATION; PANEL 11 CONTROLS SUB-STATION 13 IN SOUTH WILMINGTON DELAWARE AND MISCELLANEOUS METERS
- PA-404-A-8 VIEW NORTHEAST OF A MICROCHIP BASED COMPUTER CONTROL SYSTEM INSTALLED IN THE EARLY 1980S TO REPLACE LAMOKIN TOWER, AT CENTER OF PHOTOGRAPH; PANELS 1 AND 2 AT RIGHT OF PHOTOGRAPH ARE PART OF MAIN SUPERVISORY BOARD; PANEL 1 CONTROLLED ALLEN LANE SUB-STATION #7; RESPONSIBILITY FOR THIS PORTION OF THE SYSTEM WAS TRANSFERRED TO SOUTHEAST PENNSYLVANIA TRANSIT AUTHORITY (SEPTA) IN 1985; PANEL 2 AT EXTREME RIGHT CONTROLS CATENARY SWITCHES IN A COACH STORAGE YARD ADJACENT TO THE STATION
- PA-404-A-9 VIEW NORTHEAST OF SECONDARY SUPERVISORY BOARD AT CENTER RIGHT OF PHOTOGRAPH; MAIN SUPERVISORY BOARD IS IN BACKGROUND; CAROUSEL DISPLAYING DETAILED SCHEMATIC WIRING DIAGRAMS FOR THE SYSTEM IS AT LEFT OF PHOTOGRAPH
- PA-404-A-10 VIEW NORTHWEST OF POWER DIRECTORS BOARD; HOLE AT CENTER FORMERLY HELD A CLOCK

(continued)

Index to Photographs  
Thirtieth Street Station,  
Power Director Center  
HAER No. PA-404-A (page 3)

- PA-404-A-11 CLOSE UP VIEW OF SWITCHBOARD PANEL AT OPERATOR'S STATION #1; PANEL CONTAINS 1200 PUSH-PULL BUTTON SWITCHES WHICH CONTROL POWER TO RED, GREEN AND WHITE INDICATING LIGHTS ON THE MODEL BOARD; WHITE LIGHTS INDICATE THAT POWER IS OFF; GREEN LIGHTS INDICATE THAT EQUIPMENT (SWITCH, BREAKER OR TRANSFORMER) IS OFF; RED LIGHTS INDICATE THAT EQUIPMENT IS ON
- PA-404-A-12 CLOSE UP VIEW OF CIRCUIT BREAKER CONTROL SWITCHES ON PANEL 4 OF MAIN SUPERVISORY BOARD
- PA-404-A-13 VIEW SOUTHWEST OF CAROUSEL DISPLAYING SCHEMATIC DIAGRAMS OF ELECTRICAL SYSTEM; OPERATORS CONSOLE SWITCHBOARD #1 IS AT LOWER RIGHT OF PHOTOGRAPH
- PA-404-A-14 VIEW SOUTHWEST OF CAROUSEL DISPLAYING SCHEMATIC DIAGRAMS OF ELECTRICAL SYSTEM; CAROUSEL HAS BEEN ROTATED 180 DEGREES TO SHOW SCHEMATICS ON OPPOSITE SIDE; OPERATORS CONSOLE SWITCHBOARD #1 IS AT LOWER RIGHT OF PHOTOGRAPH
- PA-404-A-15 VIEW NORTHEAST OF TELEPHONE CONSOLE; OPERATOR'S STATION #1

Key to Photographs  
Thirtieth Street Station,  
Power Director Center  
HAER No. PA-404-A (Page 4)

