

**W63-2 SIG.**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W69-2 (TO CCP THEN R)  
 AA (AM) TO W69-2 A  
 C (C) TO W69-2 AA (TO CCP THEN AM)  
 C (C) TO W69-2 C

**W63-1 SIG.**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W69-1 (TO CCP THEN R)  
 AA (AM) TO W69-1 A  
 C (C) TO W69-1 AA (TO CCP THEN AM)  
 C (C) TO W69-1 C

**2W SIG (PORTAL)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W63-2 (TO CCP THEN R)  
 AA (AM) TO W63-2 A  
 C (C) TO W63-2 AA OR C  
 MA (A) TO W63-1 (TO CCP THEN R)  
 LC (AM) TO W63-1 A, AA OR C

**1W SIG (PORTAL)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W63-1 (TO CCP THEN R)  
 AA (AM) TO W63-1 A  
 C (C) TO W63-1 AA OR C  
 MA (A) TO W63-2 (TO CCP THEN R)  
 LC (AM) TO W63-2 A, AA OR C  
 R (R) TO ALL OTHER ROUTES

**W51-2 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 2W (TO CCP THEN R)  
 AA (AM) TO 2W A  
 AL (AM) TO 2W MA OR LC  
 C (C) TO 2W AA (TO CCP THEN AM)  
 C (C) TO 2W C

**W51-1 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 1W (TO CCP THEN R)  
 AA (AM) TO 1W A  
 AL (AM) TO 1W MA OR LC  
 C (C) TO 1W AA (TO CCP THEN AM)  
 C (C) TO 1W C

**W45-2 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W51-2 (R AFTER 45 SECS)  
 AA (AM) TO W51-2 A  
 C (C) TO W51-2 AA OR AL (AM AFTER 45 SECS)  
 C (C) TO W51-2 C

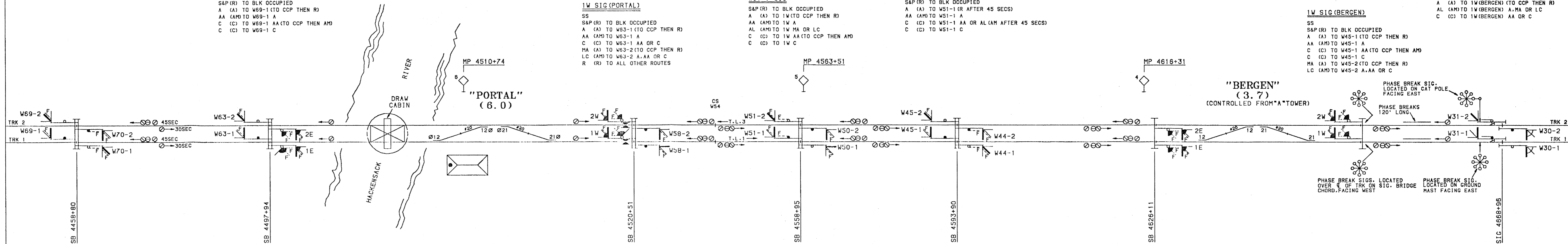
**W45-1 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W51-1 (R AFTER 45 SECS)  
 AA (AM) TO W51-1 A  
 C (C) TO W51-1 AA OR AL (AM AFTER 45 SECS)  
 C (C) TO W51-1 C

**2W SIG (BERGEN)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W45-2 (TO CCP THEN R)  
 AA (AM) TO W45-2 A  
 C (C) TO W45-2 AA (TO CCP THEN AM)  
 MA (A) TO W45-1 (TO CCP THEN R)  
 LC (AM) TO W45-1 A, AA OR C

**W31-2 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 2W (BERGEN) (TO CCP THEN R)  
 AL (AM) TO 2W (BERGEN) A, MA OR LC  
 C (C) TO 2W (BERGEN) AA OR C

**W31-1 SIG**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 1W (BERGEN) (TO CCP THEN R)  
 AL (AM) TO 1W (BERGEN) A, MA OR LC  
 C (C) TO 1W (BERGEN) AA OR C

**1W SIG (BERGEN)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W45-1 (TO CCP THEN R)  
 AA (AM) TO W45-1 A  
 C (C) TO W45-1 AA (TO CCP THEN AM)  
 C (C) TO W45-1 C  
 MA (A) TO W45-2 (TO CCP THEN R)  
 LC (AM) TO W45-2 A, AA OR C



**W70-2 SIG.**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 2E (PORTAL) (TO CCP THEN R)  
 AA (AM) TO 2E (PORTAL) A  
 AL (AM) TO 2E (PORTAL) MA OR LC  
 C (C) TO 2E (PORTAL) AA OR C

**2E SIG. (PORTAL)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W58-2 (TO CCP THEN R)  
 AA (AM) TO W58-2 A  
 C (C) TO W58-2 AA OR C  
 MA (A) TO W58-1  
 LC (AM) TO W58-1 A, AA OR C

**W70-1 SIG.**  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO 1E (PORTAL) (TO CCP THEN R)  
 AA (AM) TO 1E (PORTAL) A  
 AL (AM) TO 1E (PORTAL) MA OR LC  
 C (C) TO 1E (PORTAL) AA OR C

**1E SIG. (PORTAL)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W58-1 (TO CCP THEN R)  
 AA (AM) TO W58-1 A  
 C (C) TO W58-1 AA OR C  
 MA (A) TO W58-2  
 LC (AM) TO W58-2 A, AA OR C  
 R (R) TO ALL OTHER ROUTES

**W58-2 SIG**  
 S&P (R) TO TRK 2 OCCUPIED  
 A (A) TO W50-2 (TO CCP THEN R)  
 AA (AM) TO W50-2 A  
 C (C) TO W50-2 AA (TO CCP THEN AM)  
 C (C) TO W50-2 C

**W58-1 SIG**  
 S&P (R) TO TRK 1 OCCUPIED  
 A (A) TO W50-1 (TO CCP THEN R)  
 AA (AM) TO W50-1 A  
 C (C) TO W50-1 AA (TO CCP THEN AM)  
 C (C) TO W50-1 C

**W50-2 SIG**  
 S&P (R) TO TRK 2 OCCUPIED  
 A (A) TO W44-2 (R AFTER 45 SECS)  
 AA (AM) TO W44-2 A  
 C (C) TO W44-2 AA OR AL (AM AFTER 45 SECS)  
 C (C) TO W44-2 C

**W50-1 SIG**  
 S&P (R) TO TRK 1 OCCUPIED  
 A (A) TO W44-1 (R AFTER 45 SECS)  
 AA (AM) TO W44-1 A  
 C (C) TO W44-1 AA OR AL (AM AFTER 45 SECS)  
 C (C) TO W44-1 C

**W44-2 SIG**  
 S&P (R) TO TRK 2 OCCUPIED  
 A (A) TO 2E (BERGEN) (R AFTER 45 SECS)  
 AA (AM) TO 2E (BERGEN) A  
 AL (AM) TO 2E (BERGEN) MA OR LC  
 C (C) TO 2E (BERGEN) AA (AM AFTER 45 SECS)  
 C (C) TO 2E (BERGEN) C

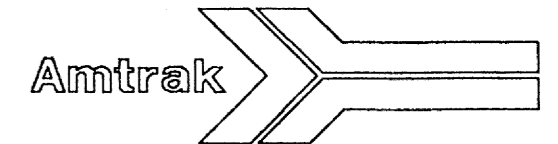
**W44-1 SIG**  
 S&P (R) TO TRK 1 OCCUPIED  
 A (A) TO 1E (BERGEN) (R AFTER 45 SECS)  
 AA (AM) TO 1E (BERGEN) A  
 AL (AM) TO 1E (BERGEN) MA OR LC  
 C (C) TO 1E (BERGEN) AA (AM AFTER 45 SECS)  
 C (C) TO 1E (BERGEN) C

**2E SIG (BERGEN)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W30-2 (TO CCP THEN R)  
 AA (AM) TO W30-2 A (TO CCP THEN AM)  
 C (C) TO W30-2 C  
 MA (A) TO W30-1 (TO CCP THEN R)  
 LC (AM) TO W30-1 A OR C

**1E SIG (BERGEN)**  
 SS  
 S&P (R) TO BLK OCCUPIED  
 A (A) TO W30-1 (TO CCP THEN R)  
 AA (AM) TO W30-1 A (TO CCP THEN AM)  
 C (C) TO W30-1 C  
 MA (A) TO W30-2 (TO CCP THEN R)  
 LC (AM) TO W30-2 A OR C

**NOTES:**  
 ⊙ - RESTRICTING CODE CHANGE POINT  
 ⊗ - APPROACH MEDIUM CODE CHANGE POINT  
 ⊠ - DRAGGING EQUIPMENT DETECTOR  
 ⊡ - HOT BOX DETECTOR  
 ⊕ - 45' SWITCH POINTS A1 OPERATED

NOT OFFICIAL



PORTAL & BERGEN INTLG'S  
 SIGNAL ASPECTS