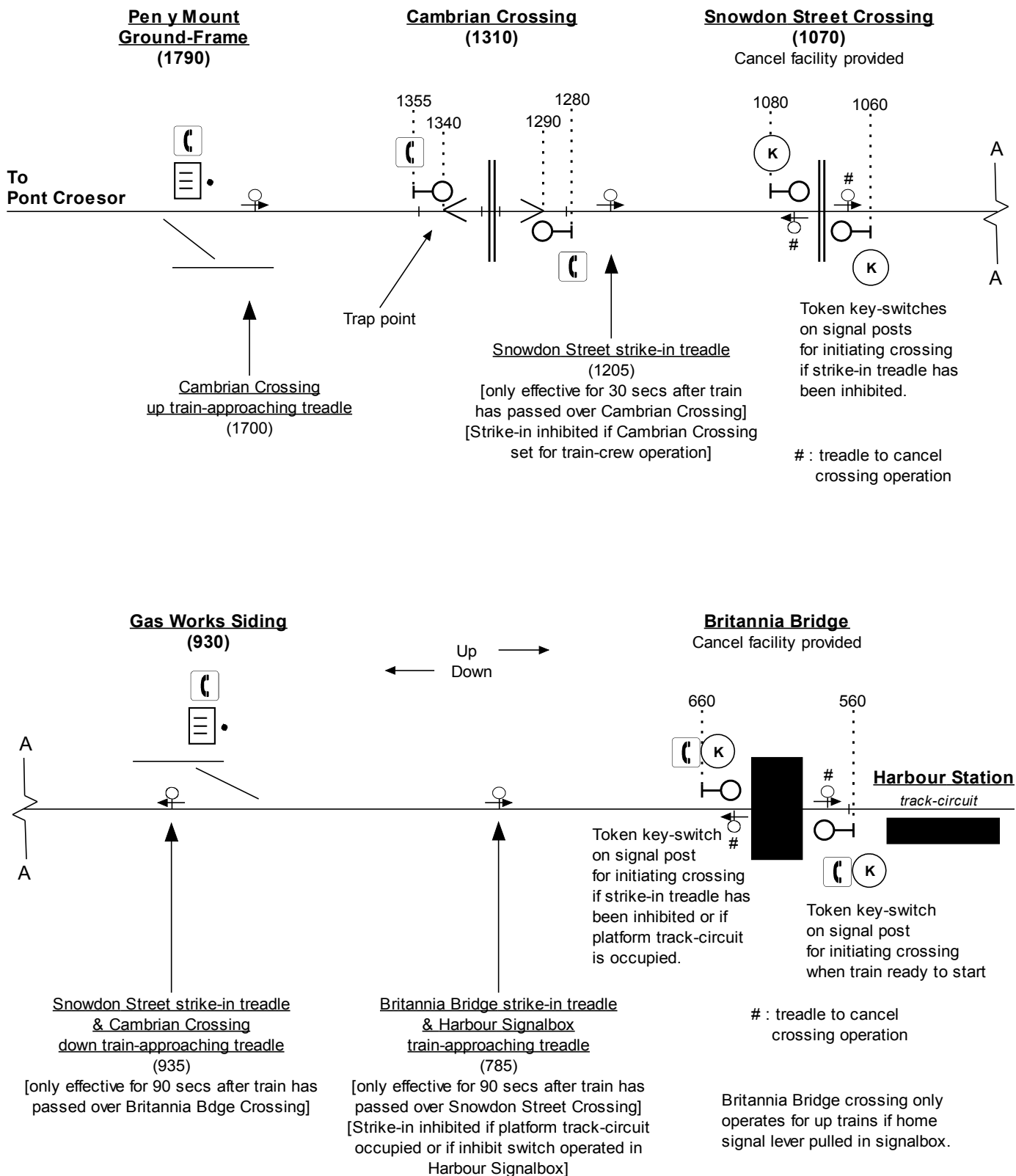


# Cross-Town Rail Link Schematic



Positions of fixed-distant boards, level-crossing speed-restriction and advance-warning boards to be determined.

PJM 14/02/2007

### **Down Train departing Harbour Station**

- Train-crew use the token key-switch to start the Britannia Bridge crossing warnings
- Starting signal clears after the warnings have been operating for time
- Train departs, passing over the Britannia Bridge crossing
- Train passes the treadle at Gas Works Siding  
Provided this is within 90 seconds of passing over the Britannia Bridge crossing:
  - a) Snowdon Street crossing warnings start
  - b) annunciator sounds at Cambrian Crossing: crossing keeper sets crossing for WHR train
- Train passes over the Snowdon Street automatic crossing
- Train passes over the Cambrian Crossing
- Crossing keeper resets the Cambrian Crossing for NR trains

### **Loco departing Harbour Station for Gas Works Siding**

- Loco-crew use the token key-switch to initiate the Britannia Bridge crossing warnings
- Starting signal clears after the warnings have been operating for time
- Loco departs, passing over the Britannia Bridge crossing
- Loco stops before the siding points, while the crew unlock the ground-frame
- Loco shunted to siding
- Loco-crew relock the ground-frame, and return the token to its designated place at Harbour station.

### **Loco departing Gas Works Siding for Pont Croesor**

- Loco-crew obtain the token, and unlock the ground-frame
- Loco shunted out of siding
- Loco-crew relock the ground-frame, and telephone Cambrian Crossing keeper to warn of their approach
- Loco passes over treadle, which is ineffective because Britannia Bridge crossing not previously operated
- Loco proceeds to the Snowdon Street crossing signal
- Loco-crew use the token key-switch to start the crossing warnings
- Train passes over the Snowdon Street crossing
- Train passes over the Cambrian Crossing
- Crossing keeper resets the Cambrian Crossing for NR trains

### **Down Works Train departing Harbour Station (out of hours)**

- Train-crew use the token key-switch to initiate the Britannia Bridge crossing warnings
- Starting signal clears after the warnings have been operating for time
- Train departs, passing over the Britannia Bridge crossing
- Train passes the treadle at the Gas Works Siding  
Provided this is within 90 seconds of passing over the Britannia Bridge crossing:
  - a) Snowdon Street crossing warnings start
  - b) annunciator disabled at Cambrian Crossing when unmanned
- Train passes over the Snowdon Street automatic crossing
- Train stops before the Cambrian Crossing, for the train-crew to operate the crossing
- Train passes over the Cambrian Crossing
- Train stops after the Cambrian Crossing, for the train-crew to reset the crossing for NR trains
- Train departs for Pont Croesor

### **Up Train arriving Harbour Station from Pont Croesor**

- Train passes over the train-approaching treadle, sounding the annunciator at the Cambrian Crossing: crossing keeper sets the crossing for WHR train
- Train passes over the Cambrian Crossing
- Crossing keeper resets the Cambrian Crossing for NR trains
- Train passes over the Snowdon Street strike-in treadle: Provided this is within 30 seconds of passing over the Cambrian Crossing, then the Snowdon Street crossing warnings will start.
- Train passes over the Snowdon Street automatic crossing
- Train passes over the Britannia Bridge strike-in treadle: Provided this is within 90 seconds of passing over the Snowdon Street crossing:
  - a) Britannia Bridge crossing warnings start
  - b) train-approaching annunciator sounds at Harbour Signalbox
- Train passes over the Britannia Bridge crossing

### **Loco from Gas Works Siding onto train in Harbour Station**

- Loco-crew obtain the token and unlock the ground-frame
- Loco shunted out of the siding
- Loco-crew relock the ground-frame
- Loco proceeds to the Britannia Bridge crossing signal
- Loco-crew telephone Control for permission to enter the occupied platform, and use the token key-switch to start the Britannia Bridge crossing warnings
- Loco passes over the Britannia Bridge crossing

### **Up Works Train arriving Harbour Station from Pont Croesor (out of hours)**

- Train passes over the train-approaching treadle: annunciator disabled at the Cambrian Crossing when unmanned
- Train stops before the Cambrian Crossing, for the train-crew to operate the crossing
- Train passes over the Cambrian Crossing
- Train stops after the Cambrian Crossing, for the train-crew to reset the crossing for NR trains (note: the train will pass over the Snowdon Street treadle, but the strike-in will be disabled when the Cambrian Crossing is unmanned)
- Train proceeds to the Snowdon Street crossing signal
- Loco-crew use the token key-switch to start the crossing warnings
- Train passes over the Snowdon Street crossing
- Train passes over the Britannia Bridge treadle, but the strike-in will be disabled when Harbour signalbox is unmanned
- Train stops at the Britannia Bridge crossing signal
- Train-crew use the token key-switch to start the crossing warnings
- Train passes over the Britannia Bridge crossing