

SEMAPHORE SIGNALLING Q.R. PRE CTC

The aim of this lecture is to give participants an understanding of the various signals and their indications and to assist you in planning the signalling of your own Railway. Please find a photocopy of various signals and how they were applied on. Q.R.

The aim of Fixed Signals is to assume safe passage of trains between stations and are covered by Rules 70 to 102 by law 1041 of 1974. Indications of fixed signals shall be shown by the position of a semaphore arm, colour of light on lights, position of lights, position of the red shape on the drive or combination thereof they may be qualified by route indicators, junction indicators, junction signal, number plate, marker plate, letter plate, shape and colour of Semaphore arms or combination thereof. That completes the Signal but now down to the ordinary nuts and bolts of signalling.

Lower Quadrant. The semaphore arm of signals when in the horizontal position indicates stop it also shows a red light at night, when lowered to approx. 45° angle indicates proceed and a green light is shown. The colour of signal arms excepting distant and repeat signals are RED with a vertical white stripe. The reverse stall is white with a vertical black stripe and does not apply to any train. The DISTANT semaphore arm is Fish Tailed at the end to distinguish it from other signals and the arm facing the train can be painted either in red with a white fish tail or if modelling from 1960's on yellow with a black fish tail. The reverse is painted white with black fish tail and does not apply to any train.

Signals in the stop position shall not be passed except as specially provided for.

Attached are diagrams of stations showing the application of signalling to Single and Double track situations, not all stations were signalled the same.

There were non interlocked stations which meant that the points were either Kangaroo points on the main line which could be secured for safety. With Kangaroo or throw over points to other sidings. At interlocked stations the points and signals were worked by lever rods and wires from a centrally located signal column. Some points to sidings at an interlocked station were also worked by ground frames but to work these frames keys or releases had to be obtained from the cabin and when these frames were in use the Signal Interlocking prevented unsafe movements.

USE OF SIGNALS ARMS LOWER QUADRANT SIGNALS

Two Armed Bracketed Dolly Home or Starter

Lower Signal	Line to the left
Upper Signal	Second line from the left

Double Bracketed Dolly Two Arms

Signal on Right	Second line from the left
Signal on left	Line to the left

Shunt Signal

Used for shunting purposes within the limits of a station yard.

Wrong Road Signal

Used for trains which are required to run in the wrong direction on either line of a double line.

Siding Signals

Where Siding Signals are provided they govern the movements of trains from the main line into Sidings and the speed is reduced accordingly.

Starting and Advance Starting Signals

Control the entrance of trains into the section ahead and shall not be passed at stop except where there are Shunt Signals unless instructed by the signal man.

Home Signals

They mark the limit of a station yard and shall not be passed at stop unless under exceptional circumstances.

On the attached diagram of signals are some combinations that are universal and I shall endeavour to explain their different indications as we go through them.

Outer Home Signal

Where provided is the limit of yard and cannot be in the proceed position whilst the Home Signal is in the stop position until the train has been brought nearly to a stand at the Outer Home Signal.

Calling on Signals

Are fixed on home signals for the purpose of avoiding hand signalling of trains past the Home Signals. The driver must always have his train under control and be prepared to stop. The train must be stopped at the Home Signal before the Calling out signal can be lowered.

Catch Point - Points Disc

Are used to indicate the clearance point of sidings. Trains are hand signalled past the Discs.

Independent Discs.

Where used control the passage of trains out of or into sidings, they are worked by a separate lever in the column and give the same authority as a semaphore signal.

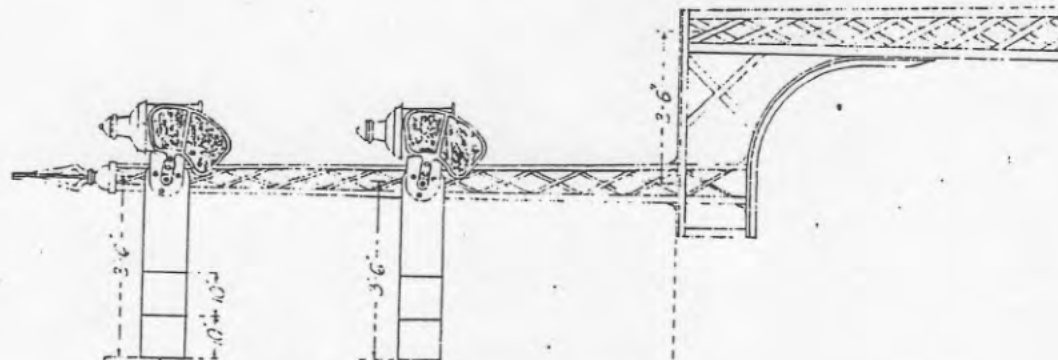
The above is only a short resume of Q.R. Signals and it would take many pages to describe in infinite detail but I hope I have given you a basis to understand Q.R. Signalling and hopefully you can apply it to your layout as simple or as complicated as you like.

DOUBLE BRACKETED
DOLLY - HOME OR STARTER -

DOUBLE BRACKETED DOLLY -
TWO ARMS -

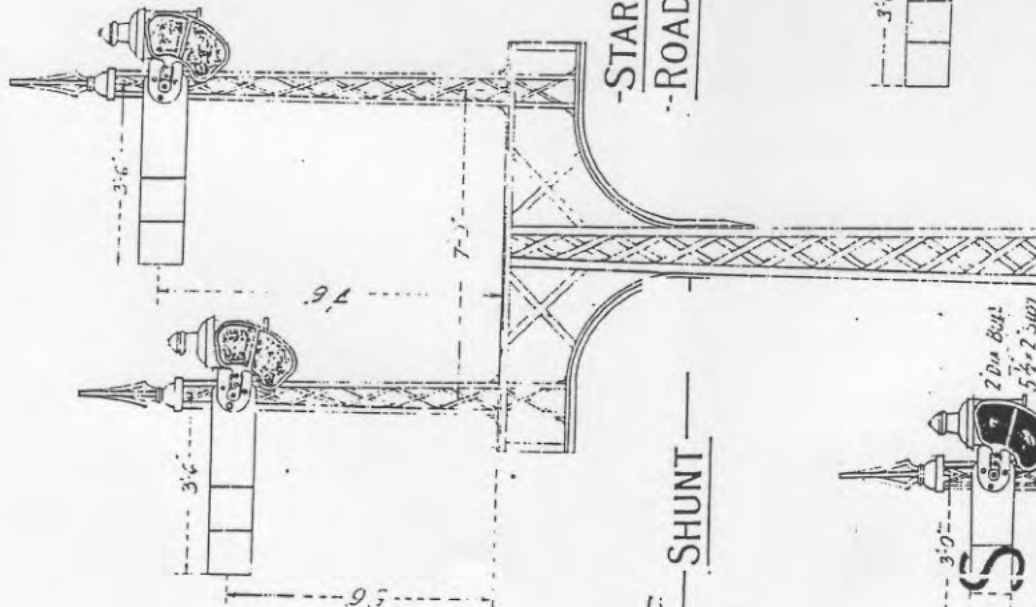
SIGNAL UNDER -

SIGNAL UNDER -

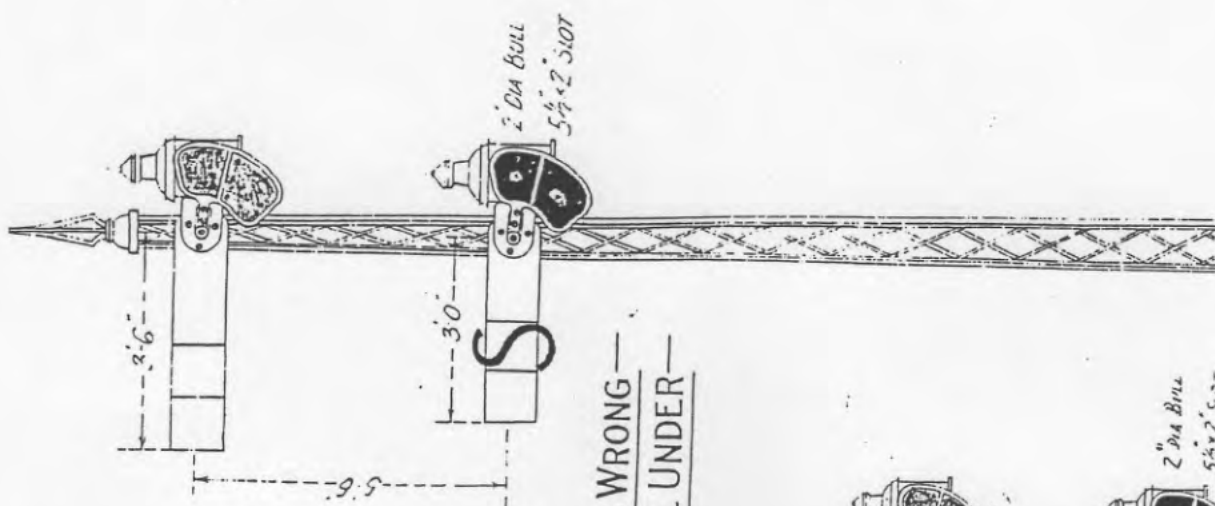


Don Warn

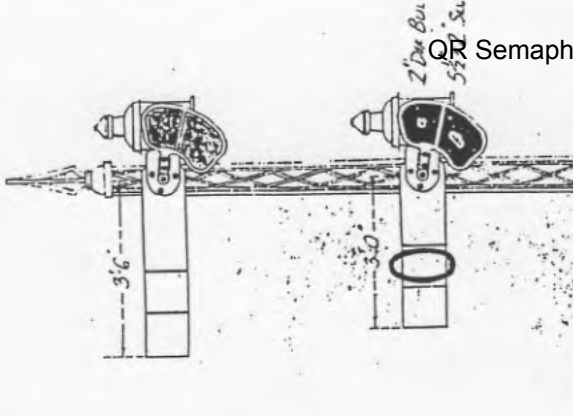
Modelling the Railways of Queensland Convention 1996



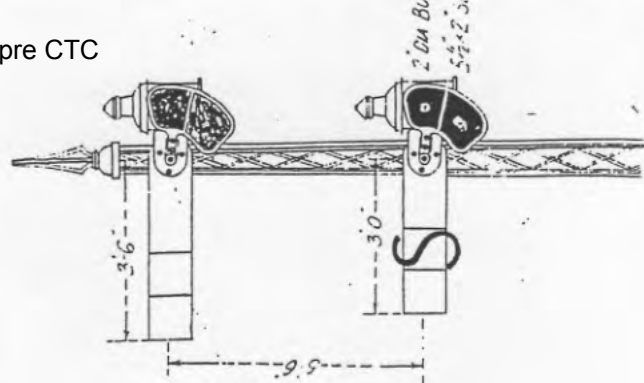
SHUNT



STARTER WITH WRONG -
ROAD SIGNAL UNDER -



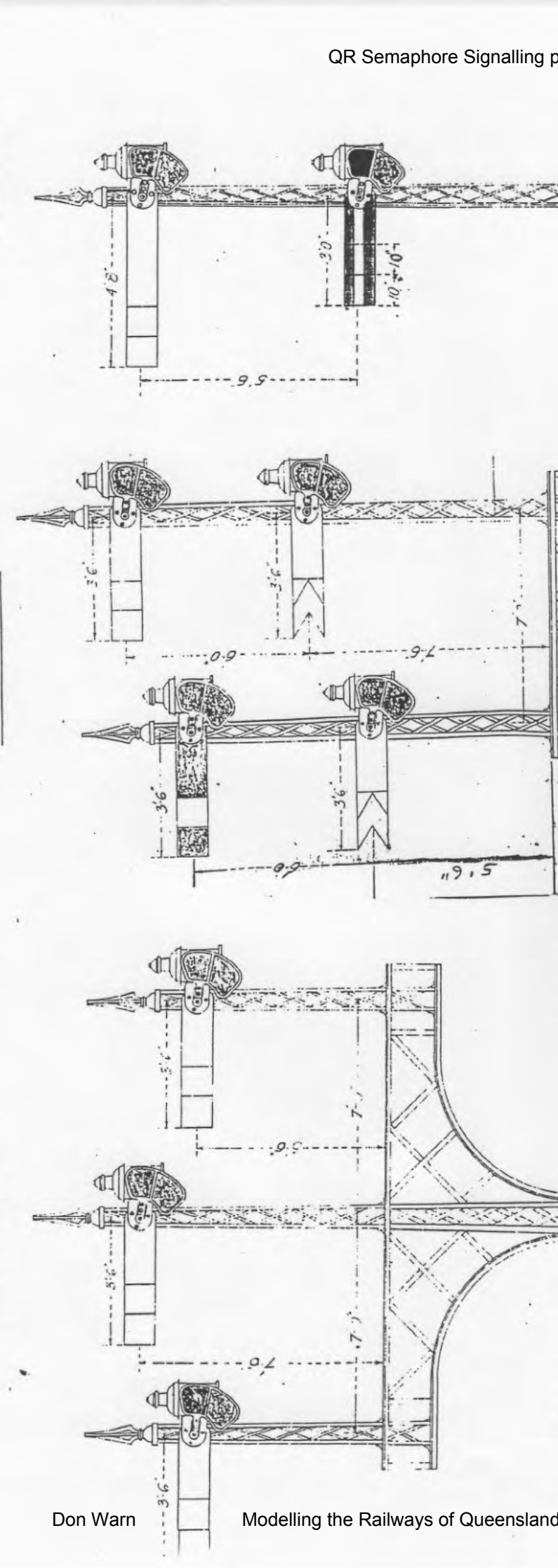
STARTER WITH SHUNT -
SIGNAL UNDER -



1

DOUBLE BRACKETED DOLLY — WITH CALLING CARR —

THREE ARMS — — UNDER —



POINT INDICATOR —

INDEPENDENT DISC —

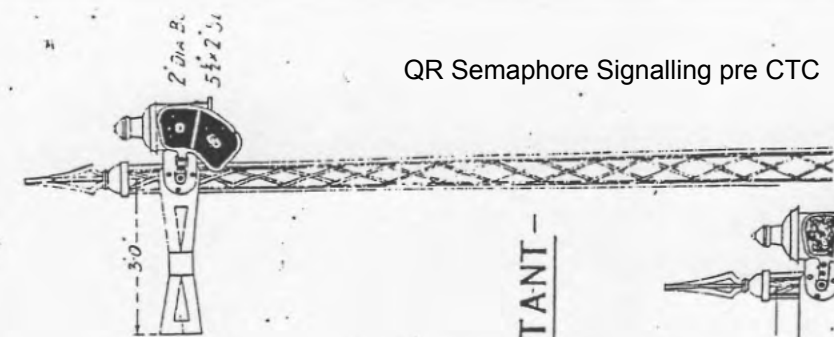
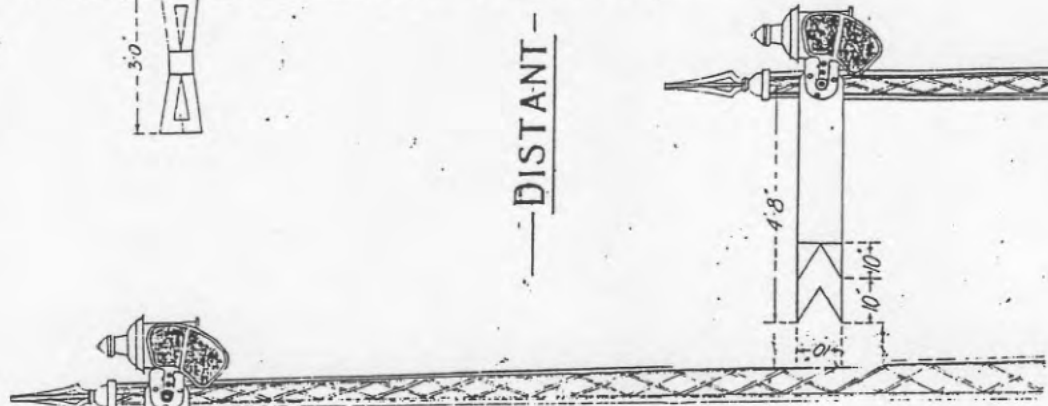
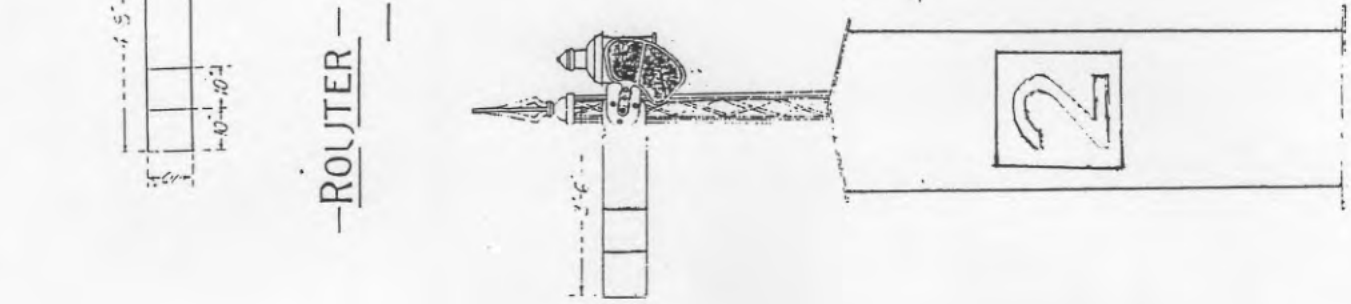
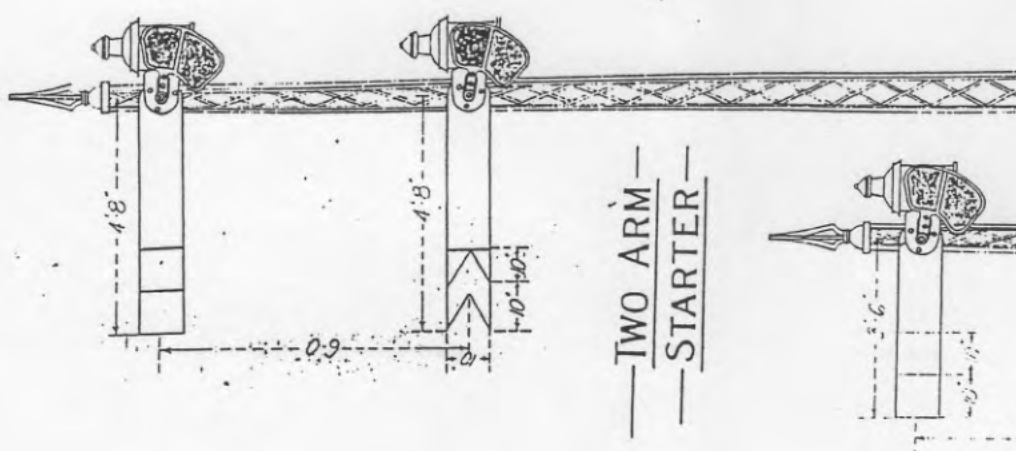
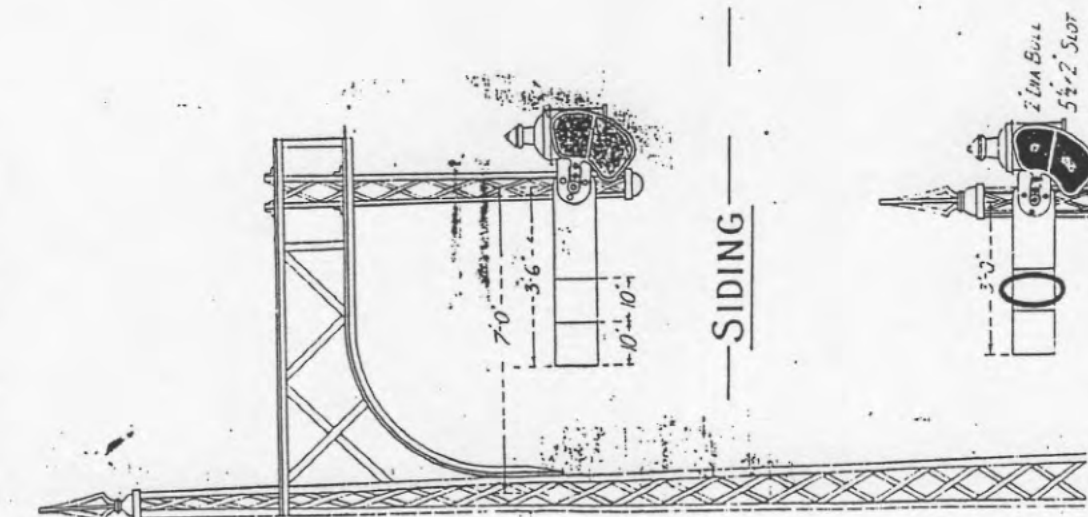
FOUR ARMS —

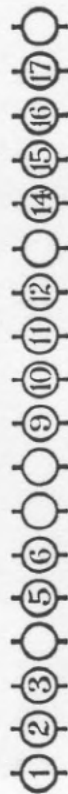
DOUBLE BRACKETED DOLLY —

GROUND DISC —

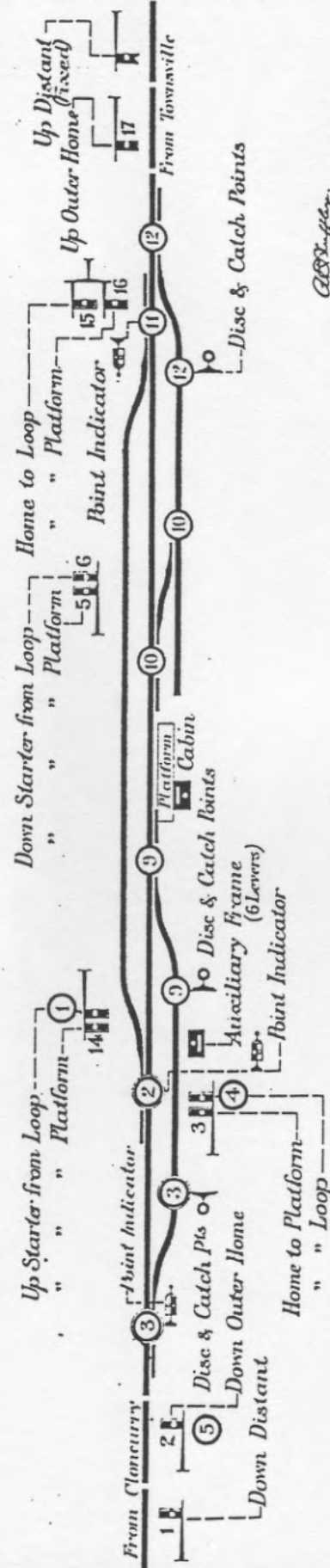
DWARF SIGNAL —





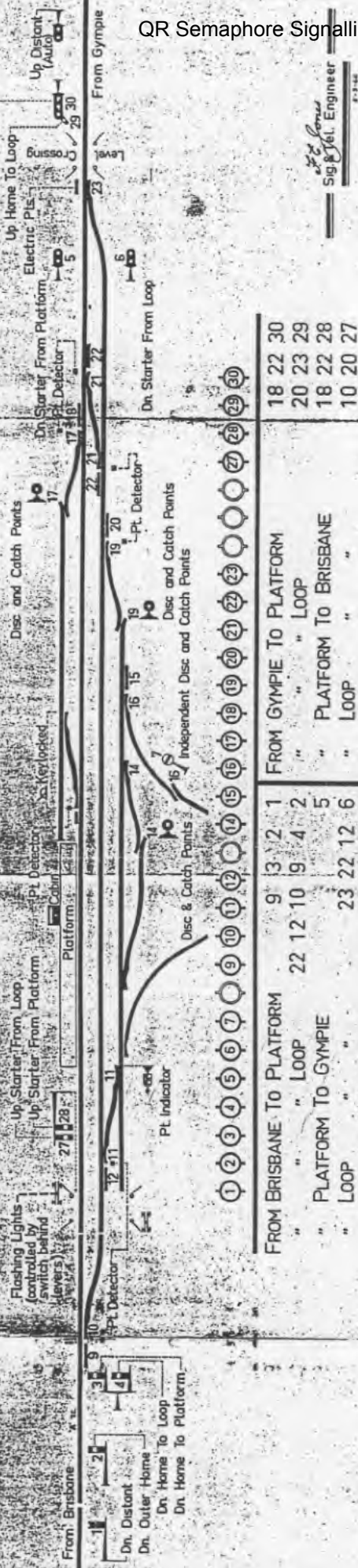


From	Concurrey to Platform	3 · 2 · 1	From	Townsville to Platform	16 · 17 ·
" "	" Loop	(Aux.) 2 · 4 · 5	" "	" Loop	11 · 15 · 17 ·
" "	" Platform	" Townsville	" "	" Platform	" Concurrey: 14
" "	" Loop	" "	" "	" Loop	" (Aux.) 2 · 1



Attest:
Signal Engineer.

DIAGRAM



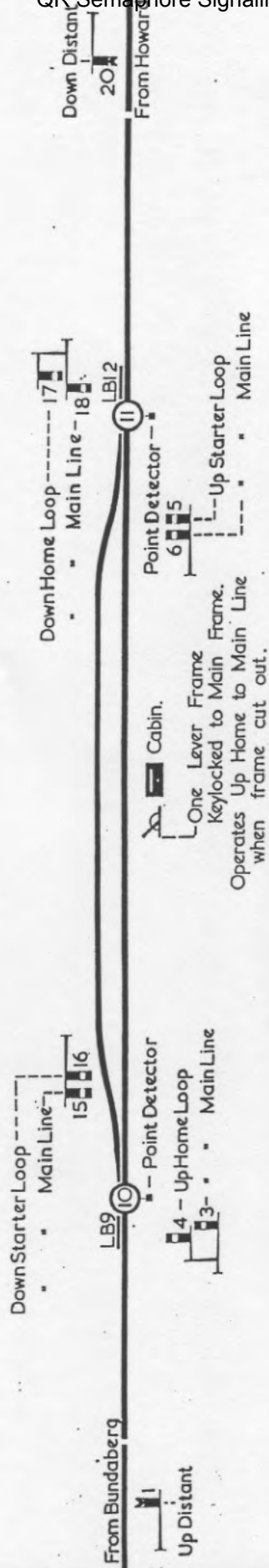
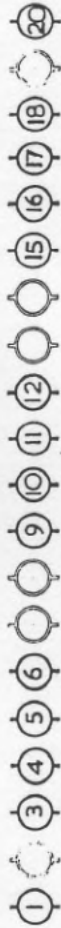
FROM BRISBANE TO PLATFORM	9	3	2	1	FROM GYMPIE TO PLATFORM	18	22	30
" " LOOP	22	12	10	9	" " LOOP	20	23	29
" PLATFORM TO GYMPIE					" PLATFORM TO BRISBANE	18	22	28
" LOOP				5	" LOOP	10	20	27
" FORK LINE TO LOOP	23	22	12	6				
	22	19	16	7				



KINKUNA

DIAGRAM

Chief Engineer
17-2-55
H. S. Walker



FROM BUNDABERG TO MAIN LINE	9.3.1	FROM HOWARD TO MAIN LINE	12.18.20
" BUNDABERG TO LOOP	10.9.4	" HOWARD TO LOOP	11.12.17
" MAIN LINE TO HOWARD	6	" MAIN LINE TO BUNDABERG	15
" LOOP TO HOWARD	11.5	" LOOP TO BUNDABERG	10.16

Chief Engineer
17-2-55
H. S. Walker

25/2/55 WHJ