

$$\begin{array}{ccccccc}
 \mathbf{g}(0) & \overset{T}{\dashrightarrow} & \mathbf{g}(1) & \overset{T}{\dashrightarrow} & \mathbf{g}(2) & \overset{T}{\dashrightarrow} & \vdots \dashrightarrow \mathbf{g}(M-1) \overset{T}{\dashrightarrow} \mathbf{g}(M) \\
 \downarrow p^{(n)} & & \downarrow p^{(n)} & & \downarrow p^{(n)} & & \downarrow p^{(n)} \\
 \mathbf{d}(0) & \overset{T_{\sigma_{n-1}}}{\dashrightarrow} & \mathbf{d}(1) & \overset{T_{\sigma_{n-1}}}{\dashrightarrow} & \mathbf{d}(2) & \overset{T_{\sigma_{n-1}}}{\dashrightarrow} & \vdots \dashrightarrow \mathbf{d}(M-1) \overset{T_{\sigma_{n-1}}}{\dashrightarrow} \mathbf{d}(M)
 \end{array}$$