```
\pi_{\text{semaphore, route1, route2, sensor1, sensor2, te1, te2}
                                                                                                (semaphore, route1, route2, sensor1, sensor2, te1, te2)
                                                                                                                ⊳ {semaphore, route2}
                                                                                                (te1, te2, route1, semaphore, sensor1, sensor2, route2)
                                                                                                                                     ↑ (semaphore: Semaphore) (route2: Route)
                                                                                        \sigma_{\texttt{route1} \neq \texttt{route2}}
                                                                  (te1, te2, route1, semaphore, sensor1, sensor2, route2)
                                                                                                                                                  ⟨route2, semaphore⟩
                                                                                        ⋈ {sensor2}
                                                                  (te1, te2, route1, semaphore, sensor1, sensor2, route2)
                                                                                                       {\textstyle \Uparrow_{(\texttt{route2: Route)}}^{(\texttt{sensor2: Sensor)}} \left[ \texttt{g2: gathers} \right]}
                                                                  ⋈ {te2}
                                             ⟨te1, te2, route1, semaphore, sensor1, sensor2⟩
                                                                                                                 ⟨route2, sensor2⟩
                                                                         (sensor2: Sensor)
                                                                                                [mb2: monitoredBy]
                                        ⋈ {te1}
                                                                        1 (te2: TrackElement)
                         ⟨te1, te2, route1, semaphore, sensor1⟩
                                                                                         (te2, sensor2)
↑ (te2: TrackElement) [ct: connectsTo]
                                                             ⋈ {sensor1}
                                                   (route1, semaphore, sensor1, te1)
                 ⟨te1,te2⟩
                                                                   ↑(sensor1: Sensor)
(te1: TrackElement)
                                                                                            [mb1: monitoredBy]
                                      ⋈ {route1}
                              (route1, semaphore, sensor1)
                                                                                     (tel, sensor1)
                                                  ↑(sensor1: Sensor)
(route1: Route)
   (semaphore: Semaphore)
                                                                        g1: gathers
                              [exit: exit]
 1 (route1: Route)
            (route1, semaphore)
                                                            ⟨route1.sensor1⟩
```

entry: entry