SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

MEMORANDUM

TO: Board of Directors **DATE:** October 23, 2025

FROM: Sylvia Lamb, Assistant General Manager, Infrastructure Delivery

SUBJECT: Next Generation Fare Gate Sensor Modification Pilot

To further strengthen BART's Next Generation Fare Gate performance and enhance the overall customer experience, the project team is advancing a pilot to adjust fare gate sensors at the Antioch and Concord Stations. This adjustment is expected to reduce piggybacking and tailgating. Working collaboratively with STraffic, the fare gate technology vendor, staff have explored optimizing the Occupant Detection Zone Sensors and Barrier Closure Time parameters on both Regular Fare Gates (RFG) and Accessible Fare Gates (AFG).

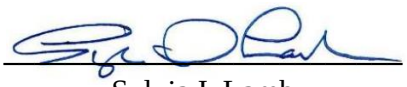
These sensors continuously monitor the aisle area to confirm it's clear before the barrier closes. If movement or an obstruction—human or otherwise—is detected within this zone, the barriers remain open until the space is verified as clear. STraffic has proposed a reduced Occupant Detection Zone to allow the barrier to close earlier after the paying patron exits the aisle, reducing the opportunity for tailgating.

Monitoring and additional testing will be performed by BART staff to evaluate the reduced zone performance with non-human obstacles such as luggage, or strollers.

Further opportunity exists to enhance fare gate performance by reducing Barrier Closure Time (i.e., increasing closure speed) while maintaining safe operation for patrons.

BART is proceeding with a pilot deployment at both Concord and Antioch Stations tomorrow, October 24, 2025 for field validation. Results from this pilot will inform the final system-wide deployment recommendation.

Please feel free to contact me at (510) 421-6475 with any questions.



Sylvia I. Lamb