

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

Resolution Authorizing an Agreement with Logicalis, Inc. for the Technical Services, Equipment and Software Necessary to Deploy a Proof of Concept for Vehicle-to-Vehicle and Vehicle-to-Infrastructure Network System Using Digital Short-Range Radio Communications in the Amount of \$1,463,861.57

WHEREAS, pursuant to Resolution No. 32-2003, adopted on July 21, 2003, the Ohio Turnpike and Infrastructure Commission's ("Commission") Executive Director was authorized to participate in state contracts under the Ohio Department of Administrative Services ("DAS") Cooperative Purchasing Program, through which members may purchase supplies, services, equipment and other materials pursuant to Ohio Revised Code Section 125.04; and

WHEREAS, an interdisciplinary working group ("Project Team") consisting of Commission staff members from Engineering, Maintenance, Safety Services, Technology, Marketing and Communications, Accounting and Procurement Departments, under the guidance of the Executive Director, evaluated the current state of connected and autonomous vehicle technology to determine how to best position the Ohio Turnpike to take advantage of new and rapidly developing technology advances in transportation and mobility accommodations; and

WHEREAS, the Project Team determined that deploying a proof of concept vehicle-to-vehicle and vehicle-to-infrastructure communications network spanning approximately 50-miles of the Ohio Turnpike and connecting thirty-eight of the Commission's fleet spanning all types of vehicles would place the Commission at the forefront to lead the development of this emerging technology that has the potential to significantly reduce the number and severity of vehicle collisions that occur each year throughout the United States; and

WHEREAS, the Project Team established its requirements to produce a proof of concept vehicle-to-vehicle and vehicle-to-infrastructure communications network and identified a solution that uses Digital Short-Range Communications ("DSRC") through radio waves to reduce the latency gap between point to point connections to broadcast basic safety messages, alerts and advisories regarding various road conditions, and provide functionality for in-vehicle dissemination of advisories for incidents, curve warnings and presence of work zones; and

WHEREAS, the software applications and databases that support the proof of concept for the vehicle-to-vehicle and vehicle-to-infrastructure communications network will enable overall improvements to advanced traffic and road condition management services through a human-machine interface installed onboard in Commission vehicles operating within a 50-mile segment of the Ohio Turnpike between Lorain and Summit Counties, including Cuyahoga County; and

WHEREAS, the Project Team determined that the services, equipment, software required to deploy the proof of concept for the vehicle-to-vehicle and vehicle-to-infrastructure communications network are available from Cisco Systems, Inc. through an agreement with Logicalis, Inc. under the DAS Cooperative Purchasing Program under Contract No. 533110-3, Index No. STS-033 and certain other necessary devices and equipment are commercially available in the marketplace; and

WHEREAS, the Project Team conducted several scope of services meetings with Cisco and Logicalis to achieve a common understanding of the Commission's objectives and requirements to make the proof of concept for the vehicle-to-vehicle and vehicle-to-infrastructure communications network a viable and worthwhile endeavor in an effort to increase safety and recommends that the Commission authorize and approve an agreement based on the resulting proposal to deliver the solution under the DAS Cooperative Purchasing Program for \$1,463,861.57.

NOW, THEREFORE, BE IT

RESOLVED by the Ohio Turnpike and Infrastructure Commission authorizes and approves an agreement to obtain the technical services, equipment and software from Logicalis, Inc. through the DAS Cooperative Purchasing Program under Contract No. 533110-3, Index No. STS-033, for the vehicle-to-vehicle and vehicle-to-infrastructure communications network proof of concept in the amount of \$1,463,861.57; and

FURTHER RESOLVED that the Executive Director has the authority to approve such extra work or change orders under said contracts as a result of an increase in the planned quantities, newly mandated requirements that did not exist at the time of original contract awards, or circumstances that would create a life, safety, or health threatening situation or would unduly delay the completion of the Project or increase its costs.

(Resolution No. 49-2017 adopted October 16, 2017)