

# Development & Engineering

## ADAPTIVE SIGNAL CONTROL TECHNOLOGY (ASCT) OLIVE /DUNLAP AVE; AGUA FRIA RANCH RD TO I-17

In association with the Maricopa Association of Governments (MAG) System Management and Operations Plan, Adaptive Signal Control Technology (ASCT) will be installed at 27 signalized intersections on a 12-mile segment of Olive Ave/Dunlap Ave from Agua Fria Ranch Rd through the Loop 101 interchange, and extending east to the I-17 interchange.

This project will install all necessary hardware and software for deploying a real time, distributed, all-inclusive ASCT system with performance reporting capabilities. The system will include vehicle detector hardware, software, performance metric devices, travel time monitoring devices, and other necessary equipment and software. Upon completion, this project will improve traffic operations at 27 existing traffic signals in the Cities of Peoria, Glendale, Phoenix, MCDOT and ADOT along Olive/Dunlap Ave.

ASCT is intended for heavily travelled roads that experience large fluctuations of traffic volumes or highly congested conditions. Real-time data is used from various sources at the intersection to maximize the efficiency at the traffic signal. The ASCT monitors the system's performance along the entire corridor to reduce delays and stops, and improve the motorist's commutes.



The City currently has an ASCT system on Bell Rd from 99<sup>th</sup> Ave to 73<sup>rd</sup> Ave. The system has substantially reduced delays, travel time and stops along Bell Rd.

This project will go to bid in the fall of 2020 and the installation should be completed by summer of 2021.

### STATISTICAL INDICATORS

#### Capital Improvement Program

Active Design Projects: 10  
 Active Design Costs: \$3,976,270  
 Active Construction Projects: 10  
 Active Construction Costs: \$87,186,008

#### Site Development

##### Civil Reviews Completed

Apr 19	Apr 20
91	56

##### Average Turnaround Time

Apr 19	Apr 20
13.66	8.36

##### Active Design Projects

Apr 19	Apr 20
78	46

##### Active Construction Projects

Apr 19	Apr 20
200	100

#### Building Development

##### New Commercial Permits

Apr 19	Apr 20
12	7

##### Tenant Improvement Permits

Apr 19	Apr 20
8	12

##### Total Commercial Permits

Apr 19	Apr 20
73	45

##### New Single Family Permits

Apr 19	Apr 20
133	107

##### Total Residential Permits

Apr 19	Apr 20
470	447

##### Commercial Plan Reviews

Apr 19	Apr 20
77	123

##### Residential Plan Reviews

Apr 19	Apr 20
665	733

##### Rollover Inspections

Apr 19	Apr 20
76	38