



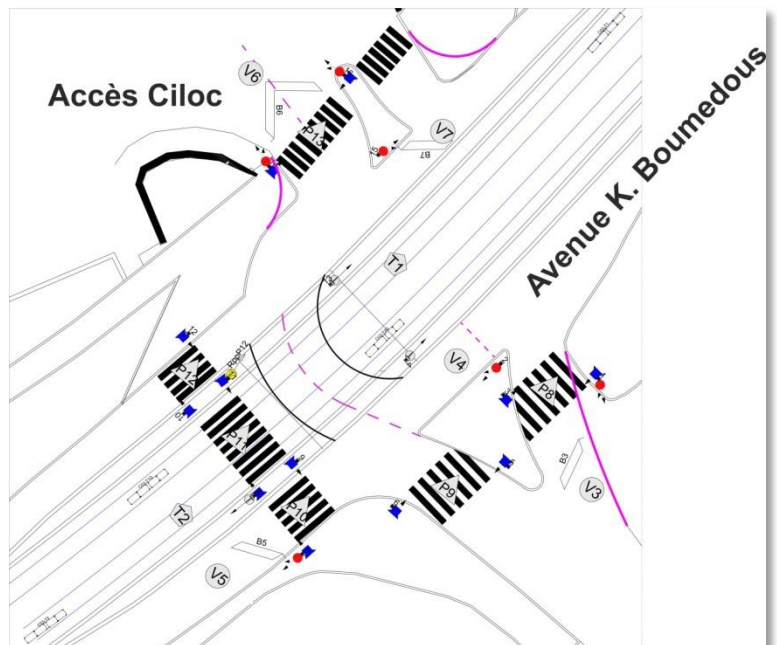
## Traffic lights expertise for tramway of Constantine

The company has to do the executive studies, and in particular sizing & functioning crossroads studies, which must have enough traffic capacity reserve and optimum priority.

### PROJECT DETAILS AND BACKGROUND

CeRyX traffic System has in charge the signalling expertise. The CeRyX traffic System missions were :

- Adapte road planning to obtain an optimal priority functioning
- Give the agreement to the traffic lights locations
- Validate traffic lights regulation files
- Edit a control parameters booklet concerning programmations
- Assist the main contractor for the traffic lights work supervision, especially functioning and security aspects
- Verify the functioning during commissioning, and do corrective actions if necessary
- After commissioning, lead the traffic lights functioning optimization and the traffic lights lifting of reservations



### ANALYSIS AND METHOD

CeRyX Traffic System began this project to support the society in charge of the executive studies. This company had not experience about the traffic lights priority for public transport, and was not able to guarantee an effective junction priority.

The CeRyX Traffic System mission was to explain all the details of the best realization method to attempt the objectives. This work was really difficult to switch on ; The company was not motivated to modify its proper realization method.

Finally, the priority functioning and the traffic lights controlled junction have been realized as CeRyX Traffic System recommended. Optimizations have been done on the traffic lights controllers initially proposed by the company.

New features have been developed on controllers, to manage micro regulation actions, to have an optimum public transport priority.

CeRyX Traffic System has all the new software development done by the company.

### **SOLUTIONS DELIVERED**

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The Constantine tramway has been put into service in July 2013, the 4th, after 1 month of test. The line is 8,9 kilometers long, with 10 stations between Ben-Abdelmalek-Ramdhan stadium and Zouaghi City. 70 000 passengers use it per day.

The functioning of the traffic light priority controlled junction is nowadays optimum. This kind of functioning became an example for all the future tramway projects in Algeria.

