

## **CHAPTER VI**

### **CONCLUSIONS AND RECOMMENDATIONS**

#### **A. Conclusion**

From the description and discussion in the preceding chapters visual observation as the basis for evaluation of the handling of road damage Jl. Adi Sumarmo - Solo Km 0 + 000 – Km 2 + 000 can be summed up as follow:

1. The type of damage to the road segment Jl. Adi Sumarmo - Solo Km 0 +000 – Km 2 +000 are alligator cracks, block cracks, corrugation, depression, lengthwise and transverse, patches, potholes, raveling/ weathering, rutting, shoving, edge cracks, and shoulder drop off. The biggest Area of road damage type is edge crack with 512.8 m<sup>2</sup> and the smallest area of road damage type is reveling/ weathering with 27.94 m<sup>2</sup>.
2. Value of pavement conditions index (PCI) at Jl. Adi Sumarmo - Solo Km 0 + 000 – Km 2 + 000 is 27.5 means included under condition (POOR).
3. Method of handling road damage at Jl. Adi Sumarmo - Solo Km 0 + 000 – Km 2 + 000 using P2, P3, P4, P5,P6 with the quantity of damage that each method should deal with are: P2 = 410.894 m<sup>2</sup>, P3 = 71.305 m<sup>2</sup>, P4 = 175.66 m, P5 = 1520.293 m<sup>2</sup>, P6 = 227.984 m<sup>2</sup>.

#### **B. Recommendations**

Some recommendations that can be asked are:

1. In surveying the road damage conditions, the surveyor should have knowledge of road damage type as well the surveyor must know how to measure the road damage also the surveyors have to pay attention to the state of traffic.
2. Damages should be monitored regularly if enabling immediate repair and fixing of improvement methods so the damage does not increase.

3. There is a need for complete road data management covering road width, road length, type of damage, road technical data, and traffic data other required as the basis of annual routine activities of road improvements.
4. Give attention to road drainage because on some points there are no drainage channels causing much water pooled in the road causing damage to the road.
5. Suggest using heavy duty pavement because there are many heavy vehicles across the road.