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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 299-2021

Traffic volume survey

道路交通流量调查

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted:

This document replaces GA/T 299-2001 "Road Traffic Flow Survey": Compared with GA/T 299-2001, except for structural adjustment and editing in addition to the sexual changes, the main technical changes are as follows:

a) Modified the terms and definitions of "road traffic flow" (see 3.1, 3:1 of the:2001 edition);

b) Modified the definition of "continuous observation point" (see 3.4, 3:4 of the:2001 edition);

c) Modified the definition of "gap observation point" (see 3.5, 3:5 of the:2001 edition);

d) Modified the description of "Classification of Survey Objects" (see 4.1:2, 4:1:3, 4:1:1 and 4:1:2 of the:2001 edition);

e) The provisions of "Conversion Factor for Equivalent Traffic Flow of Small and Micro Passenger Vehicles" are revised (see Table 1, Table 1 of the:2001 edition);

f) Deleted the requirements for the conversion of equivalent traffic flow at intersections (see

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4.2:3 of the:2001 edition);

g) Modified the observation duration requirements (see 5.1, Chapter 5 of the:2001 edition);

h) The requirement of observation period is added (see 5.2);

i) The scope of investigation requirement is deleted (see 6.1 of the:2001 edition);

j) Deleted the requirements for setting up highway observation points (see 6.2 of the:2001 edition);

k) Deleted the requirements for setting up observation points of urban roads (see 6.3 of the:2001 edition);

l) The settings and requirements of other observation points are deleted (see 6.4 of the:2001 edition);

m) The requirements for urban road surveys have been added (see Chapter 6);

n) Deleted the time requirement for road traffic flow survey (see Chapter 7 of the:2001 edition);

o) Added road survey requirements (see Chapter 7);

p) The classification of road traffic flow survey methods has been added (see 8.1);

q) Modified the requirements for automatic measurement (see 8.2, 8:2 of the:2001 edition);

r) Modified manual observation requirements (see 8.3, 8:1 of the:2001 edition);

s) Deleted the requirement for data collation of traffic flow survey (see Chapter 9 of the:2001 edition);

t) Added data quality control requirements (see Chapter 9);

u) Deleted the traffic flow survey business management requirements (see Chapter 10 of the:2001 edition);

v) Deleted the description of the traffic flow survey report (see Appendix A of the:2001 edition):

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1 Scope

This document specifies the survey content, survey methods and requirements of road traffic flow survey:

This document applies to road traffic flow surveys:

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2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 29192 Collection and Storage of Urban Traffic Flow Information GB/T 34428.2 Communication Regulations for Expressway Monitoring Facilities Part 2: Vehicle Detectors GA/T 1043-2013 Specification for operation and maintenance of road traffic technical monitoring equipment GA/T 1047 Specification for setting up road traffic information monitoring and recording equipment GA/T 1049.4 Public Security Traffic Integrated Command Platform Communication Protocol Part 4: Traffic Flow Information Collection System

3 Terms and Definitions

The following terms and definitions apply to this document:

road traffic volume

The number of vehicles or pedestrians passing through a section of the road in unit time:

Standard vehicle type the type of vehicle used as the basis for the conversion of equivalent traffic flow:

equivalent traffic volume Taking a certain vehicle type as the standard vehicle type, the traffic flow of different vehicle types obtained by the survey is converted into the traffic volume of the standard vehicle type through the conversion factor:

flow:

Continuous observation continuoustest at the same location, continuous observation of road traffic flow is carried out:

intermittent test discontinuous test at the same location, traffic flow is regularly observed at predetermined observation times:

Temporary observation temporarytest Traffic flow observations carried out on an ad hoc basis as needed:

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