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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 49-2019

Drawing of the scene for road traffic accident

道路交通事故现场图绘制

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA 49-2014 "Road Traffic Accident Scene Mapping". Compared with GA 49-2014, except for editorial changes the technical changes are as follows.

--- Added definition of site map (see 3.1);

--- Modified the definition of field record map (see 3.1.1, 3.1 of 2014 version);

--- Modified the definition of the on-site real-time record map (see 3.1.2, 3.2 of the 2014 version);

--- Added definition of on-site laser 3D scan (see 3.1.2.1);

--- Added definition of live bird's eye view record chart (see 3.1.2.2);

--- Revised the definition of the site scale diagram (see 3.1.3, 3.3 of the 2014 version);

--- Modified the definition of the site section view (see 3.1.4, 3.4 of the 2014 version);

--- Modified the definition of the on-site analysis chart (see 3.1.6, 3.6 of the 2014 version);

--- Revised the general requirements for drawing on-site maps (see 4.1.1, 4.1.2, 4.1.5, 4.1.8, 4.1.9, 2014 version 6.1);

--- Modified dimensional data and text labeling (see 4.4.3, 6.4.3 of 2014 version);

--- Increased data measurement requirements (see 4.4.5);

--- Revised the requirements for drawing on-site records (see 4.7.3, 4.7.6, 4.7.7, 6.7.3, 6.7.6, 6.7.7 of the 2014 version);

--- Modified the requirements for the production of on-site actual record maps (see 4.8, 6.8 of the 2014 version);

--- Revised the drawing requirements of the site scale diagram (see 4.9, 6.9 of the 2014 version);

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--- Modify the drawing specifications (see 5.1.1, 5.1.1 of the 2014 version);

--- Modify the margins and graphic area dimensions (see 5.2, 5.2 of the 2014 version);

--- Modified computer graphics (see 6.1, 6.3, 2014 version 6.1, 6.3);

--- Amended the informative appendix A (see A.3 in Appendix A, C.3 in Appendix C of the 2014 edition);

--- Informative appendix B has been added, including on-site record plans, on-site scale plans, on-site sectional views, on-site elevation views, and on-site analysis icons

Example (see Appendix B);

--- Added informational Appendix C, on-site laser 3D scanning map operation methods, requirements and examples (see Appendix C);

--- Modified the normative Appendix E (see Appendix E, A.3 of the 2014 edition);

--- Informative appendix F has been added, road traffic accident scene real-time record map (type C map), scene real-world bird's-eye view record map (type D map) Examples (see Appendix F).

This standard is proposed and managed by the Technical Committee of Road Traffic Management Standardization of the Ministry of Public Security.

The unit responsible for drafting this standard. Traffic Police Corps of Shanghai Public Security Bureau.

Participating in the drafting of this standard. Traffic Management Bureau of Beijing Public Security Bureau, Traffic Police Corps of Yunnan Provincial Public Security Department, Scientific Research on Judicial Identification Institute, Institute of Transportation Management Science of the Ministry of Public Security, Shanghai Jiaotong University, Tongji University.

1 Scope

This standard specifies requirements for types of road accident scene maps, site map drawings, site map drawing, and computer graphics.

This standard applies to the drawing of road traffic accident scene maps.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 11797 Road traffic accident scene graphic symbols GB/T 18229 CAD engineering

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drawing rules GB/T 50103 General drawing drafting standard GA 40 Road Traffic Accident File GA/T 1381 General technical requirements for road accident scene mapping system GA/T 1382 Road traffic accident site investigation system based on multi-rotor unmanned aircraft

3 Terms and definitions

The following terms and definitions apply to this document.

Scene drawing drawingofthescene A map that reflects the road traffic accident scene environment, the form of the accident, and the locations and interrelationships of vehicles, people, objects, and traces. Present the field map includes the scene record map, the scene real scene record map (including the scene laser 3D scanning picture, the scene real scene bird's eye view record map), the scene scale map, the current scene Site cross-section, site elevation and site analysis.

3.1.1

Field record map roughdrawingofthescene Presentation of graphical symbols, dimensions, and text records drawn by surveyors at the scene of a road accident by hand or using a computer system Field diagram.

3.1.2

Photogrammetrydrawingofthescene the surveyor took a live picture at the scene of the road traffic accident and marked the picture with the size and text on the picture.

3.1.2.1

Three-dimensionallaserscanningdrawingofthescene the surveyor used the 3D laser scanning equipment to scan the scene of the scene at the scene of the road accident.

3.1.2.2

Live view bird's eye view Using drones and other overhead photography methods, record the accident scene environment, accident form, and related vehicles, people, objects, traces and other locations A live record of the relationship.

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