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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14395-2009

Replacing GB/T 14395-1993

**Coding rules for urban geographical features - City roads, road
intersections, blocks and municipal pipe lines**

城市地理要素编码规则 城市道路、道路交叉口、街坊、市政工程管线

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Foreword

This standard replaces GB/T 14395-1993 "Geographic features urban roads, road intersections, neighborhood, municipal engineering pipeline coding Structural rules." This standard compared with GB/T 14395-1993, the main changes are as follows:

- Increasing the foreword, introduction, Appendices A and B.
- Adjust the terms and definitions of some items. removed the "city layout", "urban road classification", "Fast Road", "Main Trunk", "sub-distributors", "branch", "other road", "road", "neighborhood-level road", "Locations" and other terms; increase the "Geography Elements", "feature class", "feature instances", "urban roads", "municipal engineering pipeline", "location area" and other terms.
- Increase in the basic structure of urban geography elements encoded feature is determined by the geometry of the structure type code, feature class code, location area Field code and serial number feature instance combination.
- The code structure urban roads, road intersections, neighborhood, municipal engineering pipeline junction in the city unified basic geographic elements coded Within the framework of the structure.
- Adjust the standard layout structure. The Standard Appendix A, Appendix B is an informative annex. This standard is proposed and managed by China National Institute of Standardization. This standard drafting units. China National Institute of Standardization, Beijing Urban Planning and Design Institute, Beijing Geographic Information Center. The main drafters of this standard. Li Xiaolin, River Island, JIA Hai Yue, Zhang He, Chen Huang, Tong Wen will, Qiusu Wen. This standard was first published in 1993, this is the first revision.

Geographic feature on Earth is the expression of the position of the relevant real-world phenomena, urban geographic feature is a subset of geographic features. Urban land Natural geographic features such as mountains, rivers, and other waters, but more through artificial construction and reconstruction after formation, such as roads, neighbors and so on. Geographic features of the identification code for the modernization of urban management, planning and sustainable development of science has important practical

significance. Geographic feature class a lot, the number of instances is also a great feature, so its coding must also be very complicated, it requires a certain standard Quasi-regulated guidance. To this end it is necessary to standardized coding Geographic feature. By standard geographic features can be all kinds of geographic coding Organizational elements in a unified scientific space positioning system, for easy retrieval, analysis and synthesis. This is also the first to establish Geographic Information System jobs. This standard coding structure Geographic feature gives a basic structure, and specific to urban roads, road intersections, Neighborhood, municipal engineering pipeline and other geographic features 4 real city encoding scheme. This standard is the first city as coding standard geographic features, although only for geographic features in the city roads, road intersections Mouth, neighborhood, municipal engineering pipeline, but in the overall framework of the standard also proposed for urban municipal area other geographic features coding Reference, reference. Appendix B is operational recommendations in this regard. Geographic features Encoding Rules Urban roads, road intersections, neighborhood, Municipal engineering pipeline

1 Scope

GB/T 14395-2009 is the Chinese national standard on coding rules for urban geographical features - city roads, road intersections, blocks and municipal pipe lines, in the field of information technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 6 May 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2009. Classification: ICS 35.040, CCS A24. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the elements of the main principles of urban geography and basic coding structure specifies the city roads, road intersections, neighborhood, Municipal Engineering pipeline encoding rules and code structure. This standard applies to the large, medium and small cities the preparation of urban roads, road intersections, neighborhood and municipal engineering pipeline and other geographic features Generation Code system, other geographic features can also refer to the use of coding.

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1 Expression and location on the planet associated with real-world phenomena. NOTE.

geographic feature can have two forms. one is the feature class, the other is a feature instance. When the expression of only one meaning, it should be clear whether simply more Su refers to a class or feature instances.

2.2 Share describe the same attributes, operations, relationships and semantics of a set of features.

2.3 An object that implements the feature class.

2.4 City territory, formed the main differences between geographical elements geographic categories, by geographic area. These elements in the spatial distribution of significant Differences play a leading role in the formation of geographical features and evolution. NOTE. In this standard, coded means Geographic feature instances.

2.5 Cities for vehicles and pedestrians, with certain technical conditions of the road.

2.6 Two or more urban road intersection.

2.7 Or by the urban roads and other relatively stable Geographic features (such as rivers, railways, etc.) surrounded by a complete urban roads surrounded Lot.

Note. Some of these elements and the neighborhood is divided into administrative boundaries formed.