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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

JT/T 301-2019

Replacing JT/T 301-1996

Classification and coding rules for highway intersection

公路交叉分类与编码规则 清晰版

(English Translation)

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Foreword

This standard is in accordance with GB/T Draft the rules given in 1-2009.

This standard replaces JT/T 301-1996 "Highway Crossing Classification and Coding Rules". Compared with JT/T 301-1996, this standard in addition to editorial changes, the main technical changes are as follows.

--- Restructured and formatted the original standard;

--- Modify the expression of the original standard "highway management level" to "highway administrative level" (see 4.1, Appendix A of 1996 edition)

--- Removed Appendix A of the original standard and adjusted the relevant content to 4. 1 (see 4.1, Appendix A of the 1996 edition);

--- Deleted the appendix B of the original standard and adjusted the relevant content to 6. 1 (see 6.1, Appendix B to the 1996 edition);

--- Expand the route number in the original standard "Highway Crossing Code Structure" from three to four (see 8.1, 1996 version 8.1);

--- Change the original standard cross code encoding symbol from "A" to "F" (see 8.2, 1996 version 8.2).

This standard is proposed by and under the jurisdiction of the Technical Committee on Transportation, Information, Communications and Navigation Standardization.

This standard was drafted. Scientific Research Institute of Ministry of Transport, Jiangxi

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Provincial Transportation Design and Research Institute Co., Ltd.

1 Scope

This standard specifies the classification rules for highway cross classification, code for types of highway cross classification, and code for road cross classification, and road cross classification.

Branch code, coding rules and code structure.

This standard applies to the identification, management, and exchange of national highway cross information.

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 917-2017 Road route identification rules and national road numbers III Highway cross classification

3.1 The classification of road crossing includes the types of road crossing and the forms of road crossing.

3.2 The types of highway crossings are classified according to the administrative level of the intersecting highways.

3.3 Highway intersections are classified according to the number of intersecting roads, the angle of intersection, and the composition.

4 Codes for road crossing types

4.1

The type code of highway crossing is an alphabetic code that is composed of the alphabetic identifiers of the administrative grades of the intersecting highways or with railways and other roads.

The codes are arranged in order of highest administrative rank. Highway administrative grade codes are represented by highway administrative grade alphabetic identifiers, which should Conform to GB/T 917-2017 5. 1 provisions. See Table 1 for highway administrative grades and the alphabetic identifiers for railways and other roads.

Table 1 Alphabetical identifiers of highway administrative levels and railways and other roads

Classified letter identifier National Road G Village Road C Provincial Highway S Special

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HighwayZ County Road X Railway T Country RoadY Other RoadQ

4.2
In principle, the code of the type of highway crossing shall not exceed four digits.

Example 1.

The national and provincial highway cross codes use GS.

Example 2.

The cross code of two provincial roads and one county road use SSX.

Example 3.

The cross code of national, provincial and county roads can use GSX.

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5 Classification and Code of Highway Crossing Forms

5.1
Highway crossing forms are divided into highway and highway plane crossing, highway and highway three-dimensional crossing, highway and railway crossing and highway and other roads.

Road crossing four categories.

5.2
The form code of highway crossing consists of two digit codes. See Table 2 for the crossing form and codes.

5.3
Expansion bits are reserved between various types of codes, and users can expand them as needed.

Table 2 Cross forms and codes

Cross form category name code typical legend Road to highway or other Road level crossing Plane crossing 10 T-shaped cross 11 Zigzag cross 12 Cruciform cross 13 Diagonal crossing 14 Dislocation crossing a 15 Multi-fork crossing 16 Round cross 17 JT/T 301-2019

Table 2 (continued)

Cross form category name code typical legend Road to highway or other Road level crossing Other forms of plane crossing 29 Road to highway or other Three-dimensional road crossing Three-dimensional cross 30 Separate three-dimensional cross 31 Flare Stereo Crossing 41 Rhombus Stereo Crossing 42 Circular solid cross 43 Alfalfa Leaf Stereo

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Crossing 45 Directional Stereo Crossing 51 Combined three-dimensional cross 55 Roads and highways (or Other roads) other forms of standing Body cross Highway and rail plane cross Plane crossing 70 JT/T 301-2019

Table 2 (continued)

Cross form category name code typical legend Road and railway stereo cross Three-dimensional cross 80 Three-dimensional cross-road crossing 81 Crossing the railway three-dimensional cross 82 Highways and other roads cross Cross 90 with other roads a The distance between the two intersections at a misaligned intersection is determined by the user according to actual needs.

6 Highway Crossing Branch Code

6. 1. Highway crossing branch refers to the intersection branch that radiates to the surroundings with the highway crossing as the center. The code of the highway crossing branch is assigned by the highway.

The two-digit code of the quadrant position and direction where the fork branch is located is assembled. The four quadrant position codes are 1, 3, 5, 7, and 8 directions.

The code value is 1 to 8.

6.2
The code structure of highway cross-branching is shown in Figure 1.

Figure 1 Code structure of highway crossing branches

6.3
The quadrant coordinates of the road crossing branches use the road crossing nodes as the origin, and use N, E, S, and W to indicate the four directions of north, east, south, and west, respectively.

It is divided into four quadrants of northwest, northeast, southwest, and southeast. The quadrants are represented as NW, SE, SW, and NE. The quadrant coordinates of the road crossing branches are shown in Figure 2. public the cross-branch codes are shown in Table 3.

Note: NE = 1, SE = 3, SW = 5, NW = 7, E = 2, S = 4, W = 6, and N = 8.

Figure 2 Coordinates of the quadrants of the highway crossing branches

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Table 3 Branch Codes for Highway Crossings

name

Quadrant direction

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