JTG

PROFESSIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国行业标准

JTG F71-2006

Technical Specification for Construction of Highway Safety Facilities 公路交通安全设施施工技术规范

Issued on July 7, 2006

Implemented on September 1, 2006

Issued by Ministry of Transport of the People's Republic of China

Announcement of Ministry of Transport of the People's Republic of

China

No. 16, 2006

Notice on publishing the professional codes of Specification for Design of Highway Safety Facilities (JTG D81-2006) and Technical Specification for Construction of Highway Safety Facilities (JTG F71-2006)

The Specification for Design of Highway Safety Facilities (JTG D81-2006) and Technical Specification for Construction of Highway Safety Facilities (JTG F71-2006) have been issued at the present and implemented from September 1, 2006, the Specification for Design and Construction of Expressway Safety Appurtenances (JTJ 074-94) shall be abolished simultaneously.

The Item(1), (2) in Article 4.2.1, Item(1) in Article 4.2.2, Article 5.2.1, Article 5.2.2, Item(1) in Article 8.2.1 are compulsory and must be enforced strictly.

The compulsory provisions of Specification for Design and Construction of Expressway Safety Appurtenances (JTJ 074-94) in Compulsory Provisions of Engineering Construction Standards---Highway Project (2002) shall be abolished simultaneously.

The Ministry of Transport of the People's Republic of China is in charge of the administration and the explanation of these two codes; the Research Institute of Highway of Ministry of Transport, the development organization, is responsible for the daily explanation and administration. All relevant organizations are kindly requested to sum up and accumulate your experiences in actual practices during the process of implementing this code. The relevant opinions and advice, whenever necessary, can be posted or passed on to the Research Institute of Highway of Ministry of Transport.

It is hereby announced.

Ministry of Transport of the People's Republic of China July 7, 2006

Theme Words: issues, highway, specification, announcement Issued by General Office of the Ministry of Transport on July 10, 2006

Foreword

In order to meet the requirements of highway construction, the Ministry of Transport has issued the Document [1999], No. 739 and decided to reedit the Specification for Design and Construction of Expressway Safety Appurtenances (JTJ 074-94) which was implemented from June 1, 1994; and the Research Institute of Highway was entrusted and in charge of the work.

The recension work followed up the highway construction concept "Safety, Environmental Protection, Comfort, Harmony", and it is carried on the base of summing up the service experience of highway traffic safety facilities of China from 1994 and borrowing ideas from overseas relevant standards and advanced technology; it fully incarnated the modus operandi of "People foremost, Safety first". The reedited code was divided into three volumes of Specification for Design of Highway Safety Facilities, Technical Specification for Construction of Highway Safety Facilities and Design Details of Highway Safety Facilities.

After reedited, the Technical Specification for Construction of Highway Safety Facilities is divided into 10 chapters, they are 1 General Rules, 2 Preparation of Construction, 3 Road Bed Guardrails, 4 Bridge Guardrail, 5 Traffic Sign, 6 Traffic Guide Line, 7 Bar Screen and Bridge-girder Protective Fences, 8 Anti-dazzling Facilities, 9 Delineators, 10 Floating Rail. Compare with the former code, the scope of application of Technical Specification for Construction of Highway Safety Facilities is expanded, it is expanded from expressway and first-class road to new and remodeled highways in different grades; also, the construction methods of guardrails in different anti-collision grades of Specification for Design of Highway Safety Facilities are specified; the contents relate to traffic sign, traffic guide line and floating rails are added; the matured new materials and new technologies of traffic sign, traffic guide line, bar screen, anti-dazzling facility, delineators and floating rail which are brought out in recent years are absorbed, and it connects up properly with current national and professional standards and make the standard be equipped with definite advancements; in additional, check and accept previsions are added in this code.

All relevant organizations are kindly requested to sum up and accumulate your experiences in actual practices during the process of implementing this code. The relevant opinions and advice, whenever necessary, can be posted or passed on to RIOH Transport Consultants Ltd., of the Research Institute of Highway of Ministry of Transport(Address: No. 8, Xitucheng Road, Haidian District, 100088, Beijing Telephone: 010-62062052, E-mail: <u>hx.iu@rioh.cn</u>) for the use of next recension.

Chief Development Organization: Research Institute of Highway of Ministry of Transport

Participating Development Organizations: RIOH Transport Consultants Ltd.,

Guangdong Province Communication Co., Ltd,

Beijing Zhongluan Traffic Technological Co., Ltd.

This code was prepared by Liu Huixue, Li Aimin, Yang Jiuling, Tang Zhengzheng, Huang Chen, Jia Rixue, Zhong Jikai, Tang Wenjie, Cheng Ning, Xu Xuemin, Ge Shufang, Yang Feng, Zhang Zhi, Zhang Weihan, Wu Jingmen.

1 General Rules	1
2 Preparation of Construction	1
3 Roadbed Guardrails	2
3.1 General Requirements	2
3.2 Cable Guardrails	2
3.3 Corrugated Sheet Beams for Guardrails	5
3.4 Concrete Guardrails	8
4 Bridge Guardrails	9
4.1 General Requirements	9
4.2 Material	10
4.3 Construction of Metal bridge Guardrails	10
4.4 Construction of Wall Type and Beam Column Type Bridge Railing of	of Reinforced
Concrete	11
4.5 Construction of Combined Type Bridge Guardrails	11
4.6 Receiving Inspection	11
5 Traffic Signs	12
5.1 General Requirements	12
5.2 Materials	12
5.3 Constructions	13
5.4 Receiving Inspection	14
6 Traffic Guide Lines	15
6.1 General Requirements	15
6.2 Materials	15
6.3 Construction	16
6.4 Receiving Inspection	16
7 Bar Screens and Bridge-girder Protective Fences	17
7.1 General Requirements	17
7.2 Materials	17
7.3 Construction	17
7.4 Receiving Inspection	18
8 Anti-dazzling Facilities	19
8.1 General Requirements	19
8.2 Materials	19
8.3 Construction	19
8.4 Receiving Inspection	20
9 Delineators	20
9.1 General Requirements	20
9.2 Materials	20
9.3 Construction	21
9.4 Receiving Inspection	21
10 Floating Guardrails	22
10.1 General Requirements	22

Contents

Technical Specification for Construction of Highway Safety Facilities

1 General Rules

1.0.1 This code is formulated with a view to improve the application effects of highway safety facilities and ensure the construction quality of highway safety facilities.

1.0.2 This code is applicable to Construction and renovation highways.

1.0.3 The construction of new-built highway safety facilities shall assort with the construction of highway main work.

1.0.4 The construction quality superintendent of the construction organization shall check the project by himself, and the superintendent shall cooperate with the supervising engineer to check and accept after the project is completed.

1.0.5 The preparation before the construction and actual conditions of technology, construction organizing and construction management work under construction must be done for the construction of highway safety facilities, and the relevant previsions of this code and technical regulations shall be met.

1.0.6 The mature new techniques, new process, new material and new facilities which are approved by the competent authorities shall be adopted for the construction of highway safety facilities.

1.0.7 As for the construction of highway safety facilities, the relevant measures shall be adopted to reduce the environmental pollution and protect the environment.

1.0.8 As for the highway safety facilities, the principle of Civilized Construction, Manufactured in Safety shall be followed up and the safety operation specification shall be observed strictly, furthermore, the safe production instruction shall be enhanced and the management system of safe production shall be established and consummated.

1.0.9 As for the construction of highway safety facilities, not only the requirements stipulated in this code, but also those in the current relevant ones of the nation shall be complied with for the construction quality inspection and acceptance for the equipment installation.

2 Preparation of Construction

2.0.1 The construction management plan shall be compiled according to the tendering and bidding documents, construction contract, design document and relevant codes.

2.0.2 The construction site shall be prepared well, and the construction mechanism and calibration test mechanism shall be installed and adjusted to implement the field inspection and constructional measurement.

2.0.3 All materials which enter the site shall be equipped with the certification of inspection, and sampling inspection shall be carried out.

2.0.4 All materials shall be stored and stacked in good order.

2.0.5 The construction management plan should include the following contents: compilation explanation, construction organizations, construction plan, construction method, resource plan, aggregate scheduling and progress chart, quality control, safe production and environmental protection.

2.0.6 The construction organization must establish and consummate the quality assurance system.

3 Roadbed Guardrails

3.1 General Requirements

3.1.1 The compactness of sub-grade soil and ground bearing capacity of concrete guardrail of the cable guardrails and waveform girder guardrails shall meet the requirements of design documents.

3.1.2 The antiseptic treatment shall be carried out for all steel members. The antiseptic treatment shall meet the requirements of current national standard Specification for Steel Components Anticorrosion of Highway Traffic Engineering Appurtenances with a serial number of GB/T 18226 unless there are contrary provisions in this code and design documents. As for the fasteners and connecting pieces like screw bolts and nuts, the thread must be cleaned and the centrifugal separation treatment must be carried out after the antiseptic treatment is finished.

3.2 Cable Guardrails

3.2.1 Material

(1) Unless there are contrary provisions in the design documents, the different kinds of materials of cable guardrails which are used on both sides of the highway shall meet the following previsions:

The cordage-used wire ropes shall meet the requirements of current code Galvanized Stranded Wire with a serial number of YB/T 5004, the performance and the construct shall meet those specified in Table 3.2.1.

			Nominal					
Diameter of the wire rope (mm)	Single-wire diameter (mm)	Structure	tensile strength of wire rope	Cross-sectional area (mm2)	Making method	Unit weight (kg/m)		
			(MPa)					
18	3.86	3 sections 7 cores	1270	134	All shall be twisted right	1.09		

Table 3.2.1 Performance and Construct of Cable



北京文心雕语翻译有限公司 Beijing Lancarver Translation Inc.

完整版本请在线下单

或咨询: TEL: 400-678-1309 QQ: 19315219 Email:<u>info@lancarver.com</u> <u>http://www.lancarver.com</u>

线下付款方式:

1. 对公账户:

单位名称:北京文心雕语翻译有限公司

开户行:中国工商银行北京清河镇支行

账 号: 0200 1486 0900 0006 131

2. 支付宝账户 : info@lancarver.com

注: 付款成功后,请预留电邮,完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱,如需索取发票,下单成功后的三个工作日内安 排开具并寄出,预祝合作愉快!

