

Tanzania Bridge Guardrail Technical Document

- Design Concept:

The design concept is based on the customer's drawing requirements, combined with the guardrail specifications we have supplied to the local market in the past and combined with the European and American standards referred to in Tanzania.

二、Design based on foreign standards:

- 1. Standard Specification for Corrugated Sheet Steel Beams for Highway Guardrail AASHTO M180-12
- 2. Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products ASTM A123
- 3. Hot-rolled products of structural steels Part 2: Technical delivery conditions for non-alloyed structural steels EN 10025-2:2004

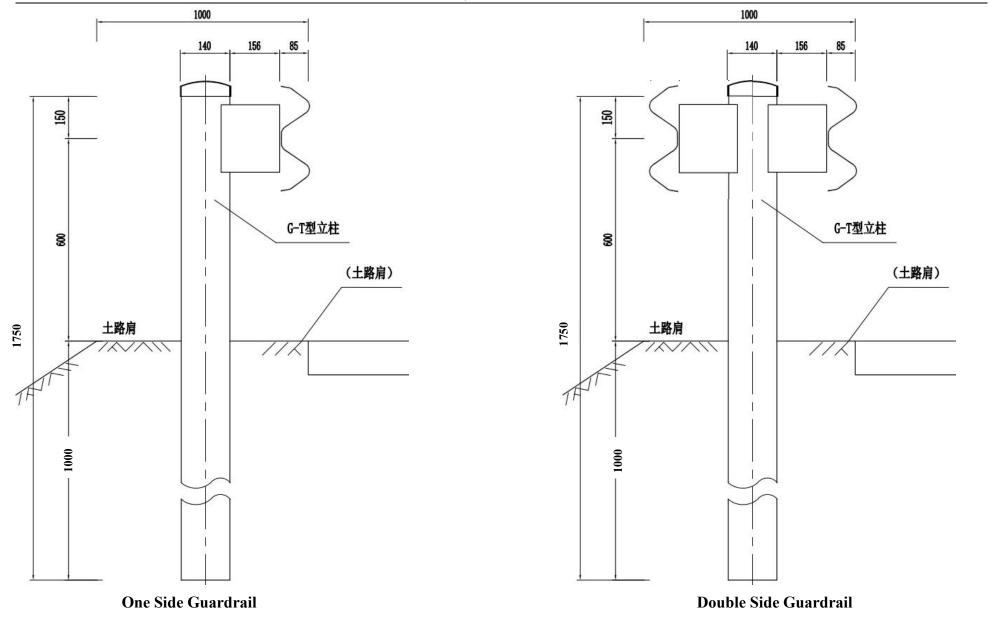
三、Beam Guardrail Design Scheme:

| No. | Name | Specification | Material | 备注 |
|-----|------------------|------------------|----------|----|
| 1 | W Beam Guardrail | 4130*310*83*2.75 | Q355B | |
| 2 | Round Post | ф 140*4.5*1750 | Q235B | |
| 3 | Spacer | 196*178*200*4.5 | Q235B | |
| 4 | Bolt &Nuts | M16*160 | Q235B | |
| 5 | Bolt &Nuts | M16*35 | Q235B | |
| 6 | Washer | 76*44*3.0 | Q235B | |
| 7 | Post Cap | ф 140 | Q235B | |

See the attachment in the drawing.

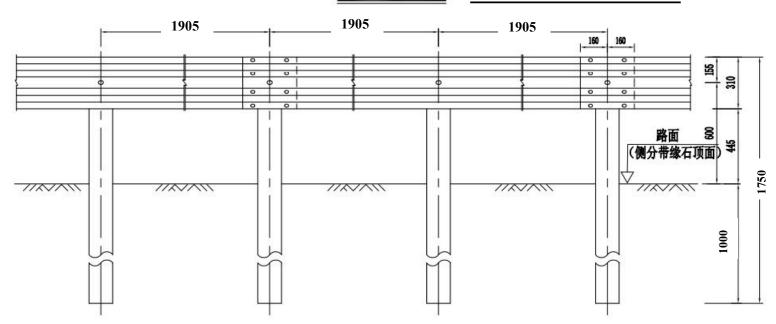
山东建安交通设施有限公司

SHANDONG SAFEBUILD TRAFFIC FACILITIES CO., LTD.

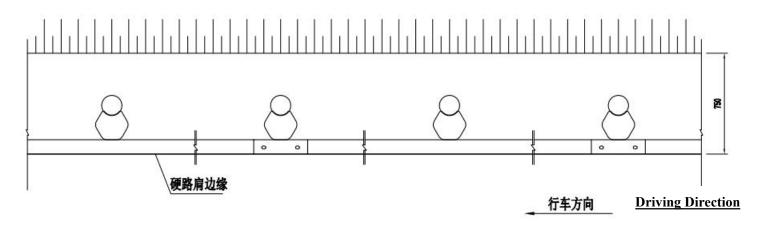




标准段立面图 Standard section elevation

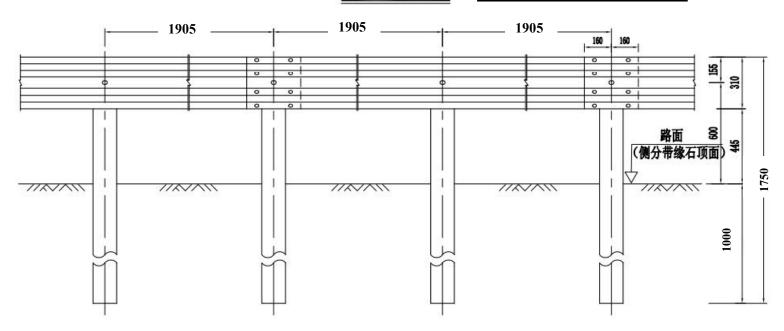


标准段平面图 Standard segment plan

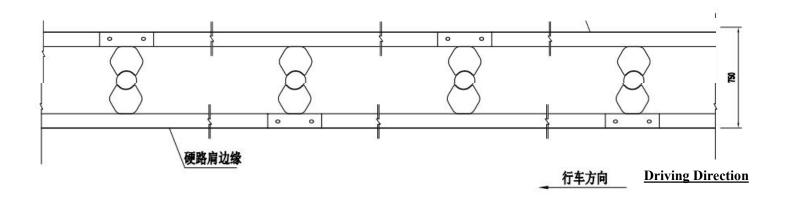




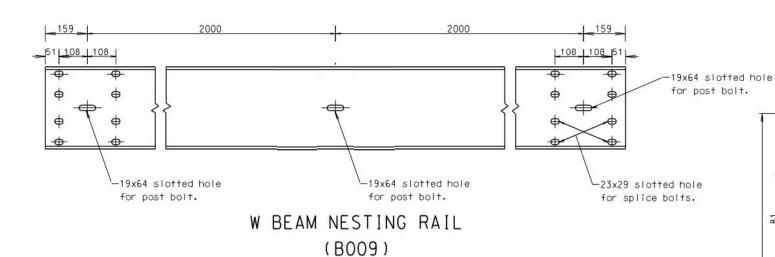
标准段立面图 Standard section elevation



标准段平面图 Standard segment plan

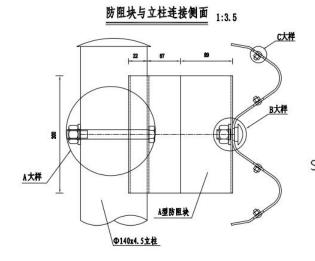


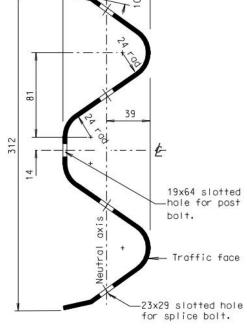




Spacer & Post Connection Diagram

防阻块立面 **Spacer Elevation Spacer Plane** 对穿孔



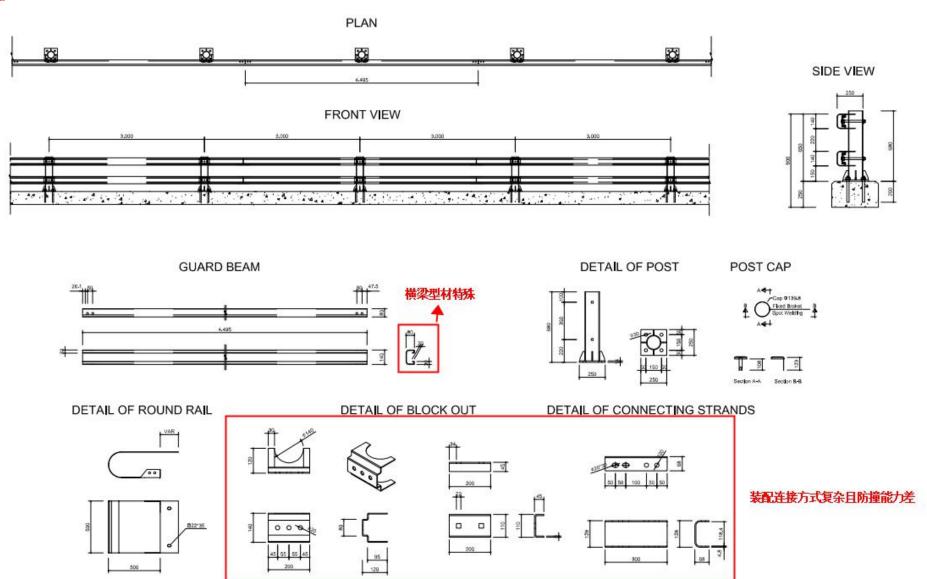


SECTION THROUGH RAIL AND STIFFENER

(Position of Slotted Holes shown)

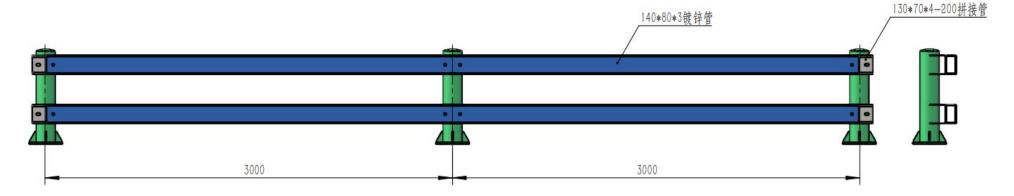
四、Crash Guardrail Design Scheme:

Original Technical Solution:



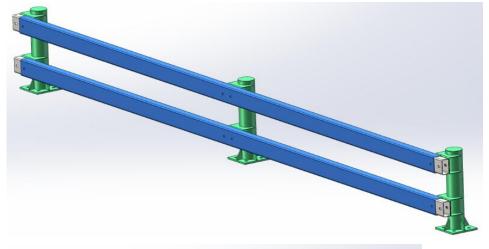
Optimized Technical Solution:

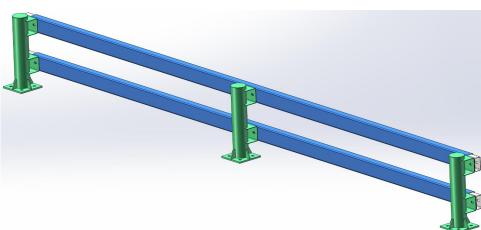
- 1. The overall design appearance has not changed, round post with two beams.
- 2. The beam is adjusted from 140*80 C-type beam to 140*80 square tubular beam with stronger mechanical properties.
- 3. The assembly method is more firm, and the connection between the beams is fastened to the post through the 130*70 connector.
- 4. The installation is simple, the construction is convenient, and the anti-collision ability is stronger.

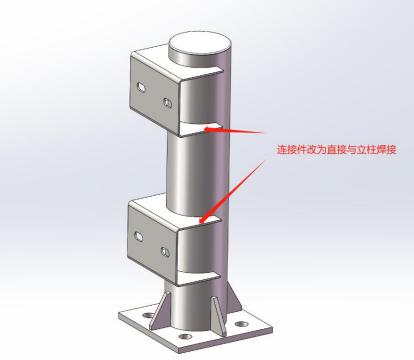


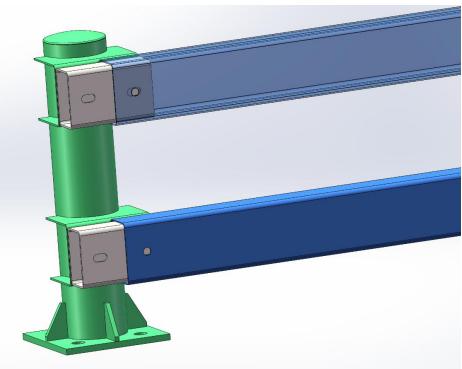


山东建安交通设施有限公司 SHANDONG SAFEBUILD TRAFFIC FACILITIES CO., LTD.



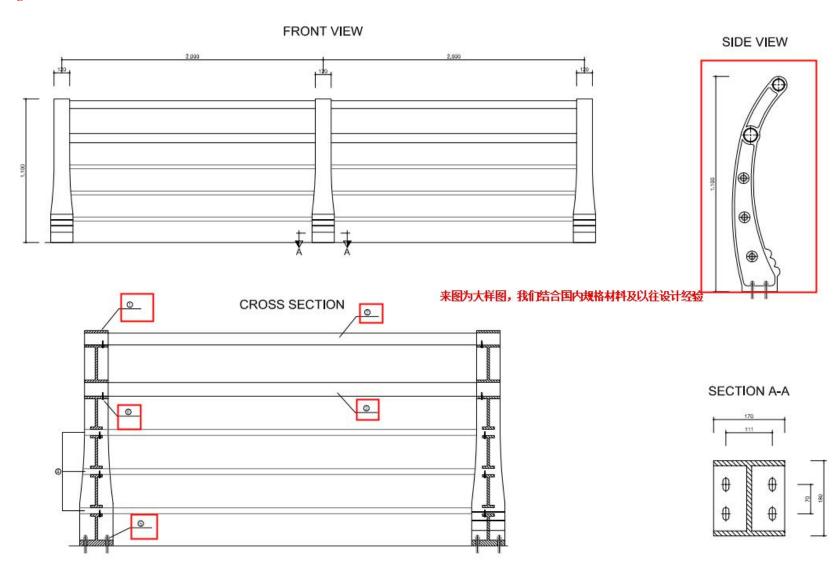






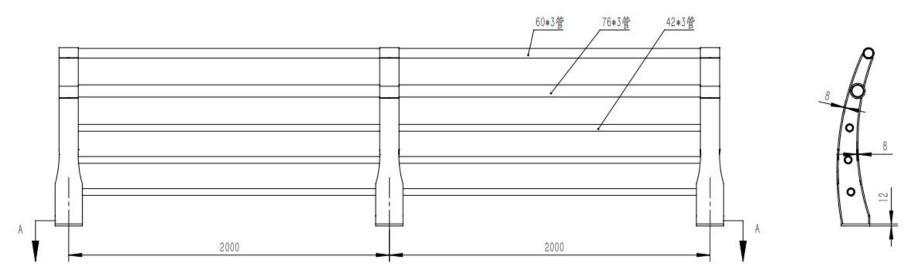
五、Sidewalk Fence Design Scheme:

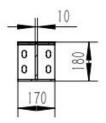
Original Technical Solution:



Optimized Technical Solution:

- 1. The overall design appearance has not changed, and the size specifications of each accessory in the drawing have been optimized in detail;
- 2. The upper beam is 60*3.0mm, the middle beam is 76*3.0mm, and the lower beam is 42*3.0mm
- 3. 12mm, The middle support thickness of the post is 10.0mm, the support thickness of both sides is 8.0mm, and the flange thickness is 12mm







山东建安交通设施有限公司 SHANDONG SAFEBUILD TRAFFIC FACILITIES CO., LTD.

