
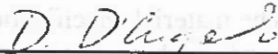


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| To: SUPERSEDED BY EB 00-012 EFFECTIVE 1/31/00 |  | New York State Department of Transportation ENGINEERING BULLETIN | EB 99-083 |
| <i>Expires one year after issue unless replaced sooner</i> | | | |
| Title: HPBO CORRUGATED BEAM GUIDE RAILING & MEDIAN BARRIER WITH PLASTIC, SYNTHETIC OR TIMBER BLOCK-OUTS | | | |
| Distribution: <input checked="" type="checkbox"/> Manufacturers (18) <input checked="" type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Main Office (30) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Contractors (39) <input checked="" type="checkbox"/> Regions/Agencies (32) <input type="checkbox"/> () | | Approved:  D. D'Angelo, Director, Design Quality Assurance Bureau Date: 11/17/99 | |

ADMINISTRATIVE INFORMATION. This bulletin supersedes EI 97-016 and STANDARD SHEETS M606-8R1, M606-9R1 and M606-10R1. It takes effect with the letting date of 05/04/00.

PURPOSE. The purposes of this bulletin are to modify notes, titles on all the above sheets and to show plastic or synthetic block-outs as an alternative to timber block-outs.

TRANSMITTED MATERIALS. This bulletin transmits the three standard sheets listed below.

- **M606-8R2 HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING WITH PLASTIC, SYNTHETIC OR TIMBER BLOCK-OUTS (Sheet 1 of 2)**
- **M606-9R2 HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING WITH PLASTIC, SYNTHETIC OR TIMBER BLOCK-OUTS (Sheet 2 of 2)**
- **M606-10R2 HEAVY POST BLOCKED-OUT CORRUGATED MEDIAN BARRIER WITH PLASTIC, SYNTHETIC OR TIMBER BLOCK-OUTS**

BACKGROUND. M606-8R1, 9R1 and 10R1 included a number of hardware revisions with regards to HPBO guide rail and median barrier. One of the changes made was to replace steel block-outs with timber block-outs. This was necessitated due to the failure of steel block-outs during a crash test performed for the FHWA. Other modifications included use of button headed post bolts and 1830 mm standard length posts, which are 150 mm longer than the standard length steel posts previously used for HPBO barrier. Finally, the plate washer beneath the post bolt heads on the traffic face of the rail was deleted.

In addition to these hardware changes, Note 5 was added to M606-9 restricting use of the anchorage unit shown on that sheet. Recently, however the FHWA objected to that note on Standard Sheet M606-9R1. Therefore the note was re-written and now further limits the use of turned down ends on rural facilities.

DESCRIPTION OF CHANGES. The following change was made to STANDARD SHEET M606-9R1, hereby superseded,

1. Remark 5 has been changed on the sheet to read as follows: "5. The anchorage units depicted herein are permitted at approach ends well inside the clear zone only when off-peak 85th percentile speeds are 50 km/h (30 mph) or less in rural areas, and 70 km/h (45 mph) or less in urban areas."

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On STANDARD SHEET M606-10R1, hereby superseded, the post dimension in the lower right corner of sheet titled "Median Barrier Post Assembly Detail" has been modified from "2135 mm Long" to "1830 mm Long." This corrects an error made during the preparation of that sheet.

On STANDARD SHEETS M606-8R1, M606-9R1 & M606-10R1, now superseded, all references to timber block-outs in the title and notes have been changed to read 'plastic, synthetic or timber block-outs.'

This last change was made after the Materials Bureau evaluated plastic and synthetic block-outs made by three different companies and found them to be satisfactory. FHWA, and others, have also found them to be satisfactory. On the basis of their findings and recommendations, and the falling prices of these block-outs, we have decided to include them in the standards. The material specifications for plastic and synthetic block-outs are being issued with EI 99-035. The use of plastic and synthetic block-outs as a substitute to timber block-outs is optional with the contractor.

IMPLEMENTATION. The attached standard sheets should be included in contracts starting with the effective letting of this bulletin.

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