



To: SUPERSEDED BY EB 02-024 EFFECTIVE 7/11/02		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 00-002
Title: TRANSITION BETWEEN HPBO CORRUGATED MEDIAN BARRIER AND CONCRETE MEDIAN BARRIER			
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:  P.J. Clark, Deputy Chief Engineer, Design Division 01/13/00 Date		

ADMINISTRATIVE INFORMATION. This Engineering Instruction is effective with projects submitted for the letting of 07/06/00. If designers decide to incorporate these details with a project having an earlier letting date, they must provide the shelf notes and Standard Sheets established in this Engineering Instruction. No Engineering Instructions are superseded hereby, however, Standard Sheet M606-11 is being superseded by this issuance.

PURPOSE. The purpose of this instruction is to establish pay items for rustic and non-rustic transitions between heavy post blocked out corrugated median barrier and either single slope concrete median barrier or jersey shape concrete median barrier.

TRANSMITTED MATERIALS. Shelf note establishing the following pay items:

- 606.8705 M: HPBO Corrugated Median Barrier Transition to Single Slope Concrete Median Barrier
- 606.8755 M: HPBO Corrugated Median Barrier Transition to Single Slope Concrete Median Barrier (Rustic)
- 606.8706 M: HPBO Corrugated Median Barrier Transition to Jersey Shape Concrete Median Barrier
- 606.8756 M: HPBO Corrugated Median Barrier Transition to Jersey Shape Concrete Median Barrier (Rustic)

BACKGROUND. The transition that is detailed was modeled after one that was crash tested and met the Test Level 3 requirements of NCHRP Report 350. Details of the crash test can be found in the Transportation Research Record No. 1528 article titled "Approach Guardrail Transition for Single-Slope Concrete Barriers".

Some minor modifications have been made to the as tested transition. First, the three beam spacer blocks used in testing (TS 178 x 102 x 4.8 mm rectangular tubes) were replaced with TS 203 x 152 x 6.4 mm rectangular tubing. The TS 203 x 152 x 6.4 mm tube is used as box beam median barrier and is thus more readily available to maintenance forces. Second, the concrete transition piece was made rectangular at the HPBO end, thus eliminating the need for the welded steel single slope connector plates used in the crash tests. Finally, the wedge gap in the concrete transition was only used on the approach side, whereas the as tested transition piece had a wedge gap on the approach and departure sides.

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OTHER INFORMATION. The following Standard Sheets will be transmitted separately in EB 00-005 and will apply to both the rustic and non-rustic specifications:

- ◆ M606-42 Transition Between HPBO Corrugated Median Barrier and Concrete Median Barrier (Sheet 1 of 2)
- ◆ M606-43 Transition Between HPBO Corrugated Median Barrier and Concrete Median Barrier (Sheet 2 of 2)
- ◆ M606-44 Transition Between HPBO Corrugated Median Barrier and Single Slope Concrete Median Barrier
- ◆ M606-45 Transition Between HPBO Corrugated Median Barrier and Jersey Shape Concrete Median Barrier

ACTIONS. The attached specification(s) will be main office inserts into contract proposals which contain the referenced item number(s).

CONTACT PERSON. Larry Brown of the Design Quality Assurance Bureau at (518) 457-4093.

HPBO MEDIAN TRANSITIONS

Make the following changes to the Standard Specifications of January 2, 1995:

Page 6-39, under 606-5 BASIS OF PAYMENT *insert* the following *below* line 35:

"606.8705 M	HPBO Corrugated Median Barrier Transition to Single Slope Concrete Median Barrier	Each
606.8755 M	HPBO Corrugated Median Barrier Transition to Single Slope Concrete Median Barrier (Rustic)	Each
606.8706 M	HPBO Corrugated Median Barrier Transition to Jersey Shape Concrete Median Barrier	Each
606.8756 M	HPBO Corrugated Median Barrier Transition to Jersey Shape Concrete Median Barrier (Rustic)	Each"