

TO:   
**SUPERSEDED BY EI 90-037  
EFFECTIVE 4/4/91**

# ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

**SUBJECT:** GALVANIZED METAL END SECTION FOR ROUND  
AND PIPE ARCH CORRUGATED METAL PIPE

Subject Code: 7.27-2-603-3

Distribution:



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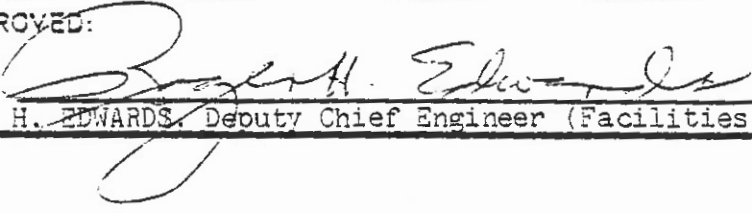
Special

Code: EI 81-40

Date: 10/15/81

Supersedes: EI 78-2

APPROVED:

  
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The standard sheet for galvanized metal end sections was originally issued by General Letter 65-100 and was reissued without changes in 1973 as Standard Sheet 603-3. Since reissuance, the industry has revised its standards and in Engineering Instruction 78-2 we issued a detail for alternate connector straps.

A new Standard Sheet 603-3R1 will be transmitted under separate cover. The new standard sheet and this Engineering Instruction supersede Engineering Instruction 78-2, and Standard Sheet 603-3. The following revisions have been incorporated into Standard Sheet 603-3R1:

1. The alternate connector straps are now detailed on the Standard Sheet.
2. Requirements for rerolling the end of helically corrugated pipe at the end sections have been added.
3. The dimension for 2-2/3 x 1/2" pipe arches have been revised to the latest standard and extended to 83" x 57".
4. The dimensions for 3" x 1" pipe arches for 40" x 31" to 81" x 59" have been added.
5. The dimensions of the toe plate extensions have been modified.

Toe plate extensions are required at the outlet ends only, and then only whenever the gradient of the channel downstream of the culvert is 5% or steeper. When toe plate extension is required, the designer shall indicate the location of each end section requiring a toe plate extension in the Drainage Structure Table (See fig. 21E of the Highway Design Manual).

This shall become effective commencing with the letting of December 17, 1981.

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