

DATE: January 24, 1991

TO: Design Personnel

FROM: A. J. Siccardi

SUBJECT: Technical Memorandum #7

While ASTM and AASHTO specifications both allow ASTM A572 Grade Steel to be used in plates up to four inches in thickness, the Colorado Specifications do not provide a Charpy requirement for A572 (M-223) over two inches thick.

Because of this, if you use A572 over two inches thick, the Charpy requirement must be added to the specifications. The requirement is:

"20 ft.-lb. at 40⁰(F) for over 2 inches
to 4 inches welded."

This will provide a toughness equal to the A588 (M-222) is advised for plates greater than three inches thick.

Attached is a Project Special to cover this memo.

attachment

AJS/RRA:cev

PERMANENT CHANGES TO PROJECT DATED SPECIAL PROVISIONS

REVISION OF SECTION 509 Steel Structures 0174B

DATE	AUTHOR	DESCRIPTION OF CHANGE
9/10/90	Akin	This specification became necessary when A572 (M223) became available in thickness greater than 2". We had not used plates of this size in the past and consequently had not needed it.

COLORADO PROJECT NO.

October 10, 1990

REVISION OF SECTION 509
STEEL STRUCTURES

Section 509 of the Standard Specifications is hereby revised for this project as follows:

Subsection 509.04 shall include the following:

The table shall include under the AASHTO M223 material, Charpy V-notch requirements of 20ft-lb at 40°F for plate thickness over 2" to 4" welded.