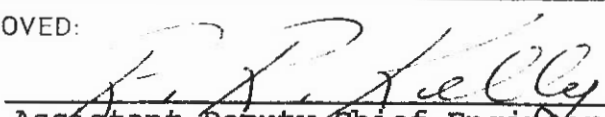


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TO: Director, Preliminary Plan Review Bureau SUPERSEDED BY EI 74-085 EFFECTIVE 9/6/1974	ENGINEERING INSTRUCTION NEW YORK STATE DEPARTMENT OF TRANSPORTATION
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APPROVED:  <u>Assistant Deputy Chief Engineer (Constr.)</u>	

This instruction describes the grades of structural steel which are acceptable as alternates to A36 steel normally required in the manufacture of Parallel Bar Grates.

Several Parallel Bar Grate manufacturers have informed the Department of extreme difficulty encountered when trying to obtain A36 steel for the fabrication of these grates. As an alternate they have requested the acceptance of several grade designations of steel produced primarily for their chemical properties rather than physical properties. The properties of these steels, designated as Grades 1015-1019, 1020 and 1025, were studied by reviewing the results of physical tests and the following determinations were made:

Grades 1020 and 1025 will be added to the Standard Structure Sheet as acceptable alternates in the fabrication of frames and grates.

Grades 1015 to 1019 will be accepted on a "job by job" basis as alternates provided Certified Test results are provided by the manufacturer showing that the steel represented by the tests has physical characteristics that meet all requirements of A36 steel.

These alternates will be acceptable at no additional cost to the State.

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