711-B-332 STEEL STRUCTURES

(Adopted 05-21-26)

The Standard Specifications are revised as follows:

SECTION 711, BEGIN LINE 1247, DELETE AND INSERT AS FOLLOWS:

711.72 Method of Measurement

~~Structural~~*The quantities of* steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, ~~and~~ threaded rods, ~~will be measured by the pound. If the Schedule of Pay Items includes a lump sum item for structural steel, all materials listed above shall be included in the pay item. No measurement will be made~~*and all other miscellaneous structural steel as part of the complete permanent steel structure as shown on the plans will be those shown in the Schedule of Pay Items*.

Stud shear connectors placed on new *or existing* structural steel ~~will not be measured. Stud shear connectors placed on existing structural steel~~ will be measured by the number installed.

SECTION 711, BEGIN LINE 1274, DELETE AND INSERT AS FOLLOWS:

711.73 Basis of Payment

~~The accepted quantities of structural steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, and threaded rods will be paid for at a contract lump sum price if the Schedule of Pay Items includes a lump sum pay item for structural steel. Changes from the estimated quantities shall be in accordance with 711.73(a)~~*Steel shapes, fabricated steel, steel castings, iron castings, bolts, pins, rollers, rockers, anchor bolts, threaded rods, and all other miscellaneous structural steel as part of the permanent steel structure as shown on the plans will be paid for at the contract unit price per pound for structural steel. The pay item will include all work listed above, complete in place.*

~~If the Schedule of Pay Items does not include a lump sum pay item for structural steel, the accepted quantities of structural steel will be paid for at the contract unit price per pound for structural steel. Such pay item will include all work listed above, complete in place. Payment will be in accordance with 711.73(b).~~

Stud shear connectors placed on *new or* existing structural steel will be paid for at the contract unit price per each, complete in place and accepted.

SECTION 711, BEGIN LINE 1307, DELETE AND INSERT AS FOLLOWS:

~~Bolts, including anchor bolts and threaded rods, will be paid for as the full weight computed on the basis of 490 lb/cu ft, including nuts and washers, for the actual number of bolts in the structure.~~

~~If welding is shown on the plans, the weights of the structural steel parts will be computed as described above.~~

~~The weight of castings will be computed on the basis of 490 lb/cu ft for cast steel, and 450 lb/cu ft for cast iron, based on the net volume of the finished castings as shown on the plans, including fillets at angles. No deductions will be made for holes required to be~~

~~drilled in castings or for rounding the corners of castings~~*Payment will be made for the weight of structural steel as shown on the Schedule of Pay Items. If there is a discrepancy between the weight listed and the actual weight supplied by the Contractor, no adjustment in the payment for the work will be made on account of such discrepancy.*

~~(a) Lump Sum Basis~~

~~An estimated weight of structural steel will be shown on the plans. Such weight will be computed by the same method as that used when computing the estimated weight when paid for on a unit price per pound basis from semi-detailed plans. This weight will include all structural steel and miscellaneous metals unless otherwise included in specific pay items.~~

~~The weight of structural steel shown on the plans is approximate only. For a lump sum pay unit, the Contractor shall determine the weight on which the bid is based. If there is a discrepancy between the plan weight and the actual weight, no decrease or increase in the payment for the work will be made on account of such discrepancy.~~

~~If a change in the plans is made which will affect the weight of material to be furnished, payment for the addition or reduction of structural steel quantities required as a result of such change in plans will be made at a unit price per pound obtained by dividing the lump sum amount for structural steel by the total estimated weight of structural steel shown on the plans. Such unit price may be adjusted in consideration of the fabricating and connection cost. Changes in the plans involving classifications of structural steel may increase the pay quantities. Such additional quantities will be paid for on comparison of evidence of invoice prices.~~

~~(b) Unit Weight Basis~~

~~The weight of materials will be shown in the bill of materials on the plans when this information is included in such plans, or as computed from the fabricator's approved working drawings when this information is not included in the plans. In either case, such weight shall include all changes ordered.~~

~~For rolled sections, the gross weight of the steel will be considered. The weight will be figured on the basis of 490 lb/cu ft. The weight of each piece will be the weight of the smallest regular shape from which the detail piece can be cut, not deducting cuts or holes. When so shown on the contract plans or on the approved working drawings, the weight of groups of two or more pieces shall be the weight of the smallest regular shape from which the given group of detail pieces may be cut by properly arranging the cuts.~~

SECTION 711, BEGIN LINE 1366, DELETE AS FOLLOWS:

Structural Steel.....~~LS~~
LBS

SECTION 711, BEGIN LINE 1375, DELETE AND INSERT AS FOLLOWS:

The cost of drilling holes for anchor bolts, steel bearing assemblies *and shims* for integral end bents, fabrication, painting *and coating*, erecting falsework, welding material, Charpy ~~V-Notch~~*V-notch* toughness tests, and necessary incidentals shall be included in the cost of the pay items in this section. Elastomeric bearings and bridge bearing pads, will be paid for in accordance with 726.05.

~~The cost of stud shear connectors placed on new structural steel shall be included in the cost of structural steel.~~ No increase in pay weight will be considered if diaphragm connections other than those shown on the plans are approved and used.

Shims between beams and top shoes of the thicknesses necessary to adjust the steel to planned elevations shall be furnished using either the plan datum or another datum as established. No adjustment will be made to the pay quantities~~ as long as the total weight of shims required does not exceed that planned~~. No *single* shim shall be less than 1/8 in. in thickness.
