


TO: SUPERSEDED BY EI 86-020 EFFECTIVE 4/21/86	<h1>ENGINEERING INSTRUCTION</h1> <p>NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
	SUBJECT: BRIDGE DESIGN MANUAL, SPECIAL SPECIFICATIONS FOR BRIDGES, ITEM 16555.6601, TRANSVERSE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE Subject Code: 7.27-1-555; 7.35-6
Distribution: 31 <input checked="" type="checkbox"/> Main Office 33 <input checked="" type="checkbox"/> Regions 34 <input checked="" type="checkbox"/> Special	Code: <u>84-27</u>
APPROVED:  E.V. HOURIGAN, Deputy Chief Engineer (Structures)	Date: <u>5/9/84</u> Supersedes: E I 84-15

Attached to this Instruction is Item 16555.6601 - Transverse Sawcut Grooving of Structural Slab Surface. The item is a revision of Item 16555.66. Item 16555.66 was issued by E.I. 84-15. The special note revising 555-3.08D and 584-3.09G, also issued by E.I. 84-15, remains in effect.

Item 16555.66 provided for a six inch clear distance between the end of the sawcut grooves and the edge of joint system. Further, this distance was to be measured parallel to the centerline of the groove. This combination permits too close an approach to the joint system edge and also mandated the use of single-bladed sawcut equipment. Both situations are best avoided, or at least should be minimized to the extent possible.

It has also been ascertained that the second application of white pigmented curing compound is unnecessary provided a minimum of seven curing days have elapsed before sawcutting begins.

Accordingly Item 16555.6601 has been prepared. It requires sawcut grooves to approach no closer than six inches, nor farther than 2'-6" from the edge of joint system. Further, both dimensions are measured perpendicular to the centerline of the joint system. These changes will keep the grooves at a safe distance from the joint system and will minimize the necessity of using single-bladed sawcut equipment. Further, Item 16555.6601 requires a minimum of seven curing days prior to the beginning of sawcutting operations and the second application of white pigmented curing compound has been eliminated.

Item 16555.6601 is stocked as a Main Office Insert.

PREL	FINAL
DESIGN	LANDSCAPE
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Grooves shall be spaced at 3/4" - center to center of groove \pm 1/16". The cutting of grooves over an area which has been grooved will not be permitted. No cutting blade shall be introduced into an already established groove.

During the grooving operations, the Engineer will verify, at random, that the minimum groove depth is being achieved. Should the Engineer determine that minimum groove depth is not being achieved, the Contractor shall stop grooving operations and make all adjustments necessary to achieve the minimum depth.

The Contractor shall supply the Engineer with two(2) accurate, easily readable, gauges with which to verify groove depth. The gauges shall be delivered no later than one week prior to the anticipated beginning of grooving operations. Gauges shall be accompanied by manufacturer's instructions for their use, if such instructions are necessary for proper understanding of the gauge's functions.

Grooves shall terminate within the following limits unless otherwise indicated on the Contract Plans:

<u>Location</u>	<u>Closest Allowable Distance</u>	<u>Farthest Allowable Distance</u>
Drainage structure	1'-0"	1'-3"
Vertical face(curb or parapet), or face of railing(no curb)	1'-0"	1'-3"
Joint System	6"(a)	2'-6"(a)

Note (a). Dimension measured perpendicular to the centerline of the joint system.

Grooving operations, which are performed after the installation of the joint system, or which are performed adjacent to an existing joint system, shall be done in such a manner that the joint system is not damaged to any degree.

All damage to the joint system shall be repaired in a manner satisfactory to the Engineer. If the Engineer determines that the joint system cannot be repaired in a manner which will allow proper function of the system, the Contractor shall replace the system. The replacement shall be a new system equal in all respects to the system being replaced.

Damage to any other portion of the structural slab, or anything attached to it, or embedded in it, attributable to the Contractor's operations shall be repaired in a manner satisfactory to the Engineer.

All repair, or replacement, costs shall be borne by the Contractor.

Slurry, or debris, from the grooving operation shall not be permitted to accumulate. Residue shall be continuously removed. The slurry shall not be permitted to harden. Slurry, or debris, shall not be disposed of in the structure, or highway, drainage system, nor on the roadway slopes. It shall be disposed of in a manner satisfactory to the Engineer.

Method of Measurement. The work will be measured as the number of square feet of surface grooved as stated in the Estimate of Quantities, shown on the contract plans. No field measurements will be taken.

Basis of Payment. The unit price bid per square foot shall include the cost of all labor, materials and equipment necessary to complete the work.

No compensation will be made for any repair, or replacement, work necessitated by the Contractor's operations.