Note: *Highlighted, italicized text* indicates REVISIONS to the version of the NJTA 2004 Standard Supplementary Specifications which existed prior to the issuance of this DCA.

SECTION 920 - TRAFFIC CONTROL DEVICES

920.01 TRAFFIC CONES

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Cones shall have the following physical properties:

| | | Design Criteria | | |
|-------|---|-------------------|---------------------------------------|--|
| | | 28" Cone | 36" Cone | |
| (1) | Material | PVC/Plastic or | PVC | |
| | | Rubber | | |
| (2) | Overall Height | 28" | 36" | |
| (3) | Cone Weight | 7 lbs. (min.) | 15.5 lbs. (min.) | |
| (4) | Total in-place Weight | 7 lbs. (min., | 15.5 lbs. (min.) | |
| | | Parkway only) | | |
| | | 15 lbs. (min.) | | |
| (5) | Cone Diameter, Top Interior | 2-3/8" ± 1/8" | 2-3/8" ± 1/8" | |
| | (1" from top) | | | |
| (6) | Cone Diameter, Bottom Interior | 10-5/8" ± 1/2" | 11-3/8" ± 1/2" 17" ± 1/2" | |
| (7) | Base Size, Square | 13-3/4" ± 1/2" | | |
| | | With Cleats | Without Cleats | |
| (8) | Tensile Strength ASTM D638 | 1,000 psi (min.) | 1,000 psi (min.) | |
| (9) | Elongation | 200% (min.) | 200% (min.) | |
| (10) | Hardness - Durometer ASTM D2240 | 80 <u>±</u> 10 | 80 ± 10 | |
| (11) | Fold Resistance – A cone is placed in an | | The cone shall return to its original | |
| | upright position and folded at a point near | | within 15 seconds after | |
| | the middle of its vertical height by holding | release. | | |
| | the upper tip of the cone by hand for ten | | | |
| | seconds to the base and touching the surface | | | |
| | upon which the base is resting. | | | |
| (12) | Heat Resistance - Cones are placed upright | | not stick to one another | |
| | for 1 hour at 180°F with a 3±0.11 Lb mass | • | to remove from the | |
| | suspended approximately 14" from the top of | stack(s). | | |
| | each cone. and secured using a 2.6 inch | | | |
| | diameter flat metal disc. Cones are returned | | | |
| | to ambient air temperature, and are stacked in | | | |
| (1.0) | various configurations with one another. | | | |
| (13) | Cold Resistance – A cone is placed upright for | | now no evidence of | |
| | 3 hours at 0°F. Immediately after, a steel ball | fracturing, crack | ing or splitting | |
| | weighing 2 pounds (0.9 kg) is dropped a | | | |
| | distance of 5 feet (1.5m) through a virtually | | | |
| | frictionless guide tube onto the surface of the cone. The surface of the cone that was struck | | | |
| 1 | | | | |
| | by the steel ball shall be in a horizontal | | | |
| | position, with the cone supported and held in | | | |

| position at both ends. The cone shall be | |
|--|--|
| subjected to five concurrent impacts | |
| concentrated near the middle. | |

(B)

Stabilizers

On Turnpike roadways, separate stabilizers shall be provided for 28" cones to meet the Total in-place Weight requirement listed herein for cones without molded bases; on Parkway roadways, separate stabilizers are not required for 28" cones that meet the Total in-place Weight required. The separate stabilizers shall be black in color and shall be constructed so that they rest evenly on the base of the cone without overhanging. The stabilizer shall be a minimum of 5 pounds and shall have the same physical properties as cones in tensile strength, elongation and hardness. Only one stabilizer per cone shall be used.