CITY OF AUSTIN
STANDARD PRODUCTS LIST
for
T-HEAD BOLTS

USING DEPARTMENT: Water Utility

PREPARED BY: Bill Flynn, P.E.

DESCRIPTION: Bolts, T-Head for mechanical joints. High-strength low-alloy steel (HSLA), having design as required by AWWA C111 and dimensions as given in Table 1 of AWWA C110 for C110 or C111 (cast iron size) joints or in Table 1 of AWWA C153 for compact ductile iron fitting joints. Nuts to meet Table 5 of AWWA C111, with dimensions as summarized in Note 1.

<table>
<thead>
<tr>
<th>LISTING DATE</th>
<th>MANUFACTURER</th>
<th>PRODUCT IDENTIFICATION/COMMENT</th>
<th>APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/14/90</td>
<td>NSS TECHNOLOGIES 9075 General Dr. Plymouth, MI 48170</td>
<td>HSLA Steel (CORTEN) Bolt &amp; Nut</td>
<td>W. Flynn</td>
</tr>
<tr>
<td>10/01/92</td>
<td>BIRMINGHAM FASTENER &amp; SUPPLY, INC. P.O. Box 10323 Birmingham, AL 35202</td>
<td>HSLA steel Bolt &amp; Nut (Nuts manufactured by Unytite, Inc., marked U &amp; LA)</td>
<td>W. Flynn</td>
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</tbody>
</table>

NOTE: 1) Nuts shall have the following dimensions:

<table>
<thead>
<tr>
<th>Bolt Diameter Inches</th>
<th>Nut Size (same thing as wrench or socket size) Inches</th>
<th>Nut Depth Inches</th>
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</thead>
<tbody>
<tr>
<td>3/4</td>
<td>1-1/4</td>
<td>3/4</td>
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<tr>
<td>1</td>
<td>1-5/8</td>
<td>1</td>
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