Safe Operating Practices for Hot Mix Asphalt (HMA) Construction

American National Standard
for Construction and Demolition Operations
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American National Standard
Construction and Demolition Operations

Safe Operating Practices for
Hot Mix Asphalt (HMA) Construction

Secretariat

American Society of Safety Engineers
520 N. Northwest Highway
Park Ridge, Illinois 60068

Approved October 5, 2017

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Foreword  
(This Foreword is not a part of American National Standard A10.17-2006 (R2017).)

This standard is one of a series of safety standards that have been formulated by the Accredited Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards in the A10 series will find a major application in industry, serving as a guide to contractors, labor and equipment manufacturers. For the convenience of users, a list of existing and proposed standards in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

A10.1 Pre-Project & Pre-Task Safety & Health Planning  
A10.2 Safety, Health and Environmental Training (under development)  
A10.3 Powder-Actuated Fastening Systems  
A10.4 Personnel Hoists and Employee Elevators  
A10.5 Material Hoists  
A10.6 Demolition Operations  
A10.7 Transportation, Storage, Handling and Use of Commercial Explosives and Blasting Agents  
A10.8 Scaffolding  
A10.9 Concrete and Masonry Construction  
A10.10 Temporary and Portable Space Heating Devices  
A10.11 Personnel Nets  
A10.12 Excavation  
A10.13 Steel Erection  
A10.15 Dredging  
A10.16 Tunnels, Shafts and Caissons  
A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction  
A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges  
A10.19 Pile Installation and Extraction Operations  
A10.20 Ceramic Tile, Terrazzo, and Marble Work  
A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities (under development)  
A10.22 Rope-Guided and Non-Guided Workers’ Hoists  
A10.23 Safety Requirements for the Installation of Drilled Shafts  
A10.24 Roofing – Safety Requirements for Low-Sloped Roofs  
A10.25 Sanitation in Construction  
A10.26 Emergency Procedures for Construction Sites  
A10.27 Hot Mix Asphalt Facilities  
A10.28 Work Platforms Suspended from Cranes or Derricks  
A10.29 Aerial Platforms in Construction (under development)  
A10.31 Digger-Derricks  
A10.32 Personal Fall Protection Used in Construction and Demolition Operations  
A10.33 Safety and Health Program Requirements for Multi-Employer Projects  
A10.34 Public Protection  
A10.37 Debris Nets  
A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment  
A10.39 Construction Safety and Health Audit Program  
A10.40 Reduction of Musculoskeletal Problems in Construction  
A10.42 Rigging Qualifications and Responsibilities in the Construction Industry  
A10.43 Confined Spaces in Construction and Demolition Operations  
A10.44 Lockout/Tagout in Construction  
A10.46 Hearing Loss Prevention  
A10.47 Highway Construction Safety  
A10.48 Communication Structures  
A10.49 Control of Health Hazards
One purpose of these standards is to serve as guides to governmental authorities having jurisdiction over subjects within the scope of the A10 Committee standards. If these standards are adopted for governmental use, the reference of other national codes or standards in individual volumes may be changed to refer to the corresponding regulations.

Revisions: The A10 Committee welcomes proposals for revisions to this standard. Revisions are made to the standard periodically (usually five years from the date of the standard) to incorporate changes that appear necessary or desirable, as demonstrated by experience gained from the application of the standard. Proposals should be as specific as possible, citing the relevant section number(s), the proposed wording and the reason for the proposal. Pertinent documentation would enable the A10 Committee to process the changes in a more-timely manner.

Interpretations: Upon a request in writing to the Secretariat, the A10 Committee will render an interpretation of any requirement of the standard. The request for interpretation should be clear, citing the relevant section number(s) and phrased as a request for a clarification of a specific requirement. Oral interpretations are not provided.

No one but the A10 Committee (through the A10 Secretariat) is authorized to provide any interpretation of this standard.

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<table>
<thead>
<tr>
<th>Organization Represented</th>
<th>Name of Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
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<tr>
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<tr>
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</tr>
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</tr>
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</tr>
<tr>
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</tr>
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</tr>
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</tr>
<tr>
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</tr>
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</tr>
<tr>
<td>Elevator Industry Work Preservation Fund</td>
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</tr>
<tr>
<td>Ellis Fall Safety Solutions, LLC</td>
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</tr>
<tr>
<td>Engineering Systems, Inc.</td>
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</tr>
<tr>
<td>Fluor Corporation</td>
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</tr>
<tr>
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</tr>
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</tr>
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</tr>
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<td>Barry Cole</td>
</tr>
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<td>Century Elevators</td>
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</tr>
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</tr>
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</tr>
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<td>Construction &amp; Realty Safety Group, Inc.</td>
<td>Babak Memarian</td>
</tr>
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<td>CPWR - Center for Construction Research &amp; Training</td>
<td>Jonathan Kerns</td>
</tr>
<tr>
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</tr>
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</tr>
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</tr>
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<td>John T. Whitty, P.E.</td>
</tr>
<tr>
<td>Gilbane Building Co.</td>
<td>David Ahearn, P.E.</td>
</tr>
<tr>
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</tr>
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<td>Black &amp; Veatch</td>
<td>Michael Weatherred, CSP</td>
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<td>Building &amp; Construction Trades Department</td>
<td>Jim Bates, CSP</td>
</tr>
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</tr>
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<td>Clark Construction Group</td>
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</tr>
</tbody>
</table>
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## Contents

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. General</td>
<td>11</td>
</tr>
<tr>
<td>1.1 Scope</td>
<td>11</td>
</tr>
<tr>
<td>1.2 Purpose</td>
<td>11</td>
</tr>
<tr>
<td>1.3 Exceptions</td>
<td>11</td>
</tr>
<tr>
<td>2. Traffic Hazards and Public Safety</td>
<td>11</td>
</tr>
<tr>
<td>2.1 Vehicular and Pedestrian Traffic</td>
<td>11</td>
</tr>
<tr>
<td>2.2 Fire Hydrants</td>
<td>11</td>
</tr>
<tr>
<td>2.3 Railroad Crossing</td>
<td>11</td>
</tr>
<tr>
<td>2.4 Traffic Control</td>
<td>12</td>
</tr>
<tr>
<td>3. Traffic Hazards and Employee Safety</td>
<td>12</td>
</tr>
<tr>
<td>3.1 Traffic Control</td>
<td>12</td>
</tr>
<tr>
<td>3.2 Paving Crew</td>
<td>12</td>
</tr>
<tr>
<td>3.3 Backing Vehicles</td>
<td>12</td>
</tr>
<tr>
<td>3.4 Vehicle Drivers</td>
<td>13</td>
</tr>
<tr>
<td>3.5 Construction Traffic Pattern</td>
<td>13</td>
</tr>
<tr>
<td>3.6 Paving Site Illumination</td>
<td>13</td>
</tr>
<tr>
<td>4. Equipment Hazards and Employee Safety</td>
<td>13</td>
</tr>
<tr>
<td>4.1 Machine Hazards</td>
<td>13</td>
</tr>
<tr>
<td>4.2 Fire and Explosion Prevention</td>
<td>14</td>
</tr>
<tr>
<td>4.3 Fall/Trip Hazards</td>
<td>17</td>
</tr>
<tr>
<td>4.4 Electrical Hazards</td>
<td>17</td>
</tr>
<tr>
<td>4.5 Burn Hazards</td>
<td>17</td>
</tr>
<tr>
<td>4.6 Dust, Gas and Fume Hazards</td>
<td>18</td>
</tr>
<tr>
<td>4.7 Noise Hazards</td>
<td>25</td>
</tr>
<tr>
<td>4.8 Equipment Controls</td>
<td>25</td>
</tr>
<tr>
<td>4.9 Personal Protective Equipment</td>
<td>25</td>
</tr>
<tr>
<td>4.10 Sanitary Provisions</td>
<td>26</td>
</tr>
<tr>
<td>4.11 Emergency Medical Response Plan</td>
<td>26</td>
</tr>
<tr>
<td>4.12 Shutdown</td>
<td>26</td>
</tr>
<tr>
<td>5. References</td>
<td>26</td>
</tr>
<tr>
<td>6. Definitions</td>
<td>29</td>
</tr>
</tbody>
</table>
1. **GENERAL**

1.1 **Scope.** This standard applies to those operations involving hot mix asphalt (bituminous) mixtures and materials for construction and resurfacing. Safe work practices are included for the protection of workers and the public and are to be considered the vital safety requirements for designers, manufacturers and installers of such equipment and materials.

1.2 **Purpose.** The purpose of this standard is to provide safety and health guidelines to protect employees and other persons from injury and illness.

1.3 **Exceptions.** In cases of practical difficulty or undue hardship, the responsible authority may grant exceptions to the literal requirements of this standard or permit the use of other devices or methods, but only when it is clearly evident that personnel and equipment protection is assured.

2. **TRAFFIC HAZARDS AND PUBLIC SAFETY**

2.1 **Vehicular and Pedestrian Traffic.** In the paving operations, interference with pedestrian and vehicular traffic shall be avoided wherever possible and shall be kept to a minimum in time and scope in circumstances where it cannot be avoided. When interference results, a specific written traffic control plan and paving pattern shall be formulated and implemented.

2.1.1 In paving operations where ingress and egress roads for all residences and places of business are temporarily closed along the construction route, such roads shall be temporarily closed or alternate routes and controls established to provide protection from injury and damage to the public and their vehicles. All road closures shall be coordinated with affected personnel and/or emergency response organizations.

2.1.2 Equipment, material and vehicles shall be stored or parked so as not to encroach upon an operational traffic lane. Appropriate flashing lights or reflectors or barricades equipped with appropriate lights or reflectors for warning the public during the hours of darkness or times of reduced visibility shall be placed adjacent to the outer limits of such material, vehicles or equipment stored or parked immediately adjacent to an operating traffic lane.

2.1.3 Temporary roadways and bridges required to accommodate traffic flow diverted from the roadway under construction shall be designed to handle expected traffic loads until the roadway under construction is serviceable. These approaches, travelways and structures shall be maintained until the roadway under construction is completed. Travelways shall be provided with necessary curbs, barriers, guardrails and road markings to separate the opposing traffic and provide safe traffic movement.

2.1.4 All footways, gutters, sewers, inlets and portions of other roadway adjoining the roadway under construction shall be free of obstruction and debris.

2.2 **Fire Hydrants.** Fire hydrants on or adjacent to the roadway under construction shall be accessible to fire apparatus at all times. Where it is necessary to place materials or obstructions within 15 feet (4.6m) of any such hydrant, permission shall be obtained from the fire protection agency involved.

2.3 **Railroad Crossing.** Arrangements shall be made with the railroad for the construction, protection, maintenance and removal of any railroad grade crossing. A written plan shall be developed to assure the