

# Non-Construction Vehicles: Rolling Object Struck-by Hazards

Work being performed on a roadway in close proximity to traffic can create hazardous situations for workers. Motorists can intrude into the work zone and strike workers, resulting in serious injuries or death.

## Protect workers by:

- Developing a traffic control plan.
- Communicating each day before work begins – work schedules, potential hazards, corrective measures, and workers-on-foot locations.
- Training workers on safe work practices. Flaggers must be trained/certified and use authorized signaling methods.
- Using positive protection (e.g., barriers).
- Installing signs to guide workers on foot with respect to traffic areas, vehicle flow, and worker-free zones.
- Giving advanced warning to motorists about the work zone.
- Requiring use of personal protective equipment, such as hard hats and high-visibility clothing.

## Planning Resources

- [Preventing Worker Injuries and Deaths from Backing Construction Vehicles and Equipment](#)
- [Job Hazard Analysis](#)
- [Building Information Modeling \(BIM\) for Safety Planning](#)
- [Automated Flagging Assistant Devices \(AFAD\)](#)
- [Crash Cushion](#)
- [Movable Longitudinal Barriers](#)
- [Temporary Longitudinal Barriers](#)
- [Rumble Strips](#)
- [Temporary Traffic Control Devices](#)
- [Truck-Mounted Attenuator](#)
- [Temporary Traffic Control](#)
- [Working at Night](#)
- [High-Visibility Safety Apparel](#)
- [Illumination Ring for Hard Hats](#)
- [Work Zone Lighting](#)
- [CPWR's Head Protection Webpage](#)
- [OSHA Competent Person Resources](#)
- Preventing Struck-by Incidents in Roadway Work Zones: [Play Recording](#); [PDF of Slides](#)
- Preventing Struck-by Incidents: Learning by Experience: [Play Recording](#); [PDF of Slides](#)



## Training Resources

- Toolbox Talks:
  - Work Zone Safety: Working Around Vehicles ([English](#), [Spanish](#))
  - Traffic Safety ([English](#), [Spanish](#))
  - Night Shift: Roadwork ([English](#), [Spanish](#))
  - Head Protection ([English](#), [Spanish](#))
- Posters/Infographics:
  - STAY ALERT IN WORK ZONES! (English [PDF](#) & [JPEG](#); Spanish [JPEG](#))

- CONTRACTORS! Work Zone Safety Starts with Your Internal Traffic Control Plan (English [PDF](#) & [JPEG](#), Spanish [JPEG](#))
- Head Protection (English [PDF](#) & [JPEG](#))
- In 1 Strike You Could Be Out (English [PDF](#) & [JPEG](#))
- Webinars:
  - Preventing Struck-by Incidents in Roadway Work Zones: [Play Recording](#); [PDF of Slides](#)
  - Preventing Struck-by Incidents: Learning by Experience: [Play Recording](#); [PDF of Slides](#)
  - Prevención de Incidentes por Atropellos: Zonas de Trabajo, Equipos Pesados e Impacto de Objetos: [ver video](#); [descargar presentación](#)

### Relevant Standards

- OSHA Standard 29 CFR - <https://www.osha.gov/laws-regs/regulations/standardnumber/1926>
  - [1926 Subpart C - General Safety and Health Provisions](#)
    - [1926.20 - General safety and health provisions.](#)
    - [1926.21 - Safety training and education.](#)
    - [1926.22 - Recording and reporting of injuries.](#)
    - [1926.23 - First aid and medical attention.](#)
    - [1926.25 - Housekeeping.](#)
    - [1926.26 - Illumination.](#)
    - [1926.28 - Personal protective equipment.](#)
    - [1926.29 - Acceptable certifications.](#)
  - [1926 Subpart E - Personal Protective and Life Saving Equipment](#)
    - [1926.95 - Criteria for personal protective equipment.](#)
    - [1926.96 - Occupational foot protection.](#)
    - [1926.100 - Head protection.](#)
    - [1926.102 - Eye and face protection.](#)
  - [1926 Subpart G - Signs, Signals, and Barricades](#)
    - [1926.200 - Accident prevention signs and tags.](#)
    - [1926.201 - Signaling.](#)
  - [1926 Subpart O - Motor Vehicles, Mechanized Equipment, and Marine Operations](#)
    - [1926.600 - Equipment.](#)
    - [1926.601 - Motor vehicles.](#)
    - [1926.602 - Material handling equipment.](#)
    - [1926.603 - Pile driving equipment.](#)
    - [1926.604 - Site clearing.](#)
- American National Standards Institute (ANSI):
  - [ANSI/American Society of Safety Professionals \(ASSP\) A10.47-2021 – Work Zone Safety for Roadway Construction](#)
  - [ANSI/International Safety Equipment Association \(ISEA\) 107-2020 – High-Visibility Products](#)
  - [ANSI/ISEA Z89.1-2014 \(R2019\) – Head Protection](#)

### Nudges to Improve Planning

- Job Site Posters: *see Training Resources above*
- Text Messages

Target Audience	Texts: General	Texts: Specific
-----------------	----------------	-----------------

Supervisors and Workers	<ul style="list-style-type: none"> <li>• Work zone safety STARTS with a traffic control plan: Planning prevents struck-by incidents in the work zone.</li> <li>• One strike and you could be out: Traffic control plans prevent struck-by incidents in the work zone.</li> </ul>	<ul style="list-style-type: none"> <li>• Work zone safety starts with a traffic control plan. It's critical for keeping workers safe from being struck by motorists passing through or around the work zone. <b>(Supervisors)</b></li> <li>• A traffic control plan that includes elements such as signs, warning signals, flaggers, and positive protection like concrete barriers around the work zone is critical for preventing workers from being struck by motorists. <b>(Supervisors)</b></li> </ul>
-------------------------	--	---

- Email Messages

**Example:**

Dear [        ],

As a supervisor, keeping your workers safe is a top priority. If your employees are performing work on a roadway in close proximity to traffic, they are at risk of being struck by passing motorists. Develop a traffic control plan before any work begins and communicate it with employees to help prevent struck-by incidents. Be sure to:

- Communicate each day before work begins – work schedules, potential hazards, corrective measures, and workers-on-foot locations.
- Train workers on safe work practices. Flaggers must be trained/certified and use authorized signaling methods.
- Use positive protection (e.g., barriers).
- Install signs to guide workers on foot with respect to traffic areas, vehicle flow, and worker-free zones.
- Give advanced warning to motorists about the work zone.
- Require use of personal protective equipment, such as hard hats and high-visibility clothing.

CPWR's Struck-by Planning Program can help you create a more detailed plan.

Thanks for helping to instill a safety and health culture here at [company name]. Stay safe!

[Name]

- Stickers



CPWR has a simple "Sphere of Safety" hardhat sticker design that can be downloaded and printed. We also have limited supplies available for free, which can be ordered by contacting Grace Barlet at [gbarlet@cpwr.com](mailto:gbarlet@cpwr.com).

[Download Sphere of Safety sticker artwork](#)



[Download English version](#)

[Download Spanish version](#)