SECTION 00226 - TEMPORARY ROADSIDE BARRIERS AND IMPACT ATTENUATORS

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [orange text] above a subsection, paragraph, sentence, or bullet, then include it in the Project. Delete all orange text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

(Use the following lead-in paragraph when none of the following subsections are included in the Project.)

Comply with Section 00226 of the Standard Specifications.

(Use the following lead-in paragraph when any of the following subsections are included in the Project.)

Comply with Section 00226 of the Standard Specifications modified as follows:

(Use the following subsection .11(a) when concrete barrier terminals or barrier transitions are required. Delete "(s)" or the parentheses as applicable.)

00226.11(a)(2) Temporary Concrete Barrier - Add the following paragraph*(*s*)* after the bullet list:

(Use the following paragraph when cast-in-place concrete barrier transition to Bridge rail or cast-in-place tall concrete barrier transition to Bridge rail are required. Include Standard Drawing RD520 or RD550 (tall concrete barrier). Delete "(tall)" or the parentheses as applicable.)

Provide cast-in-place *(*tall*)* concrete barrier transitions as shown on the Standard Drawings.

(Use the following paragraph when cast-in-place tall concrete barrier transition to standard concrete barrier is required. Include Standard Drawing RD560.)

Provide cast-in-place tall concrete barrier transitions to standard concrete barrier as shown on the Standard Drawings.

(Use the following lead-in paragraph and subsection .15 when Temporary Glare Screens are required. Do not use Temporary Glare Screens on permanent Bridge concrete barrier or rail without Technical Resource approval.)

Add the following subsection:

00226.15 Temporary Glare Screens - Use temporary glare screens from the QPL or Conditional Use List.

(Use the following lead-in paragraph and subsection .16 when mobile barrier is required.)

Add the following subsection:

00226.16 Mobile Barrier - Use a mobile barrier from the QPL or conditional use list.

(Use the following lead-in paragraph and subsection .24 when mobile barrier is required.)

Add the following subsection:

00226.24 Mobile Barrier - Use a semi-tractor truck according to the mobile barrier manufacturer's recommendations to haul and operate the mobile barrier and conforming to the following:

- Equipped to perform with all mobile barrier functions and operations.
- Equipped with portable, self-contained two-way radios with a range suitable for communications throughout each Work Zone, unless otherwise directed.

Equip mobile barrier with a temporary impact attenuator, truck mounted.

(Use the following lead-in paragraph and subsection .30 when mobile barrier is required.)

Add the following subsection:

00226.30 Mobile Barrier - Provide semi-tractor truck operator to haul and operate the mobile barrier and a mobile barrier technician qualified to set up and operate the features of the mobile barrier. Each person has to have completed at least 4 hours of training on use and operation of the mobile barrier within the past 2 years. Obtain training from the mobile barrier manufacturer or mobile barrier vendor listed in 00226.16. Provide a mobile barrier technician on-site while the mobile barrier is in use.

(Use the following lead-in paragraph and subsection .45 when Temporary Glare Screens are required.)

Add the following subsection:

00226.45 Temporary Glare Screens - Install temporary glare screens as shown or directed, and according to the following:

- Install according to manufacturer's instructions.
- Install vertical and true to line.
- Install using a QPL approved pipe from the same manufacturer as the temporary glare screen.

- Install on concrete barrier by drilling holes as shown and placing the manufacturer's QPL approved pipe in the holes. Submit for approval, in writing, any other proposed method of installation.
- Immediately repair any temporary barrier segment that is damaged during temporary glare screen installation at no additional cost to the Agency.
- Do not install on permanent Bridge rail or permanent Bridge barrier.
- Temporary glare screens that are installed in a continuous run shall be from the same manufacturer and of like appearance throughout the entire installation.

For any segment of concrete barrier that will be used for permanent installations, fill holes and repair according to Section 00820 after removing the temporary glare screen.

(Use the following lead-in paragraph and subsection .46 when mobile barrier is required.)

Add the following subsection:

00226.46 Mobile Barrier - Configure, place, and move the mobile barrier according to the manufacturer's recommendations, according to the TCP, or as directed.

(Use the following lead-in paragraph and subsection .65 when Temporary Glare Screens are required.)

Add the following subsection:

00226.65 Temporary Glare Screens - Immediately replace or repair any temporary glare screen segment that is damaged. Repair to the Engineer's satisfaction or replace with an undamaged segment. If the temporary glare screen segment is damaged by the Contractor, repair or replace at no additional cost to the Agency.

(Use the following lead-in paragraph and subsection .66 when mobile barrier is required.)

Add the following subsection:

00226.66 Mobile Barrier - Maintain the mobile barrier according to the manufacturer's recommendations. Perform routine maintenance of the mobile barrier at no additional cost to the Agency. Be responsible for all necessary service and maintenance of the mobile barrier while in use.

(Use the following subsection .80(b)(2) when temporary barrier is required.)

00226.80(b)(2) Temporary Barrier - Add the following to the end this subsection:

The quantities will be limited to those shown in Table 00226-1. The estimated quantity of Temporary Barrier is:

TABLE 00226-1

Stage/Phase	Location (STA to STA)	Temporary Barrier (foot)	Temporary Barrier, Minimum Deflection (foot)

(Use the following subsection .80(b)(4) when minimum deflection Bridge temporary barrier is required.)

00226.80(b)(4) Minimum Deflection Bridge Temporary Barrier - Add the following to the end this subsection:

The quantities will be limited to those shown in Table 00226-2. The estimated quantity of Minimum Deflection Bridge Temporary Barrier is:

TABLE 00226-2

Stage/Phase	Location (STA to STA)	Minimum Deflection Bridge Temporary Barrier (foot)

(Use the following lead-in paragraph and subsection .80(b)(5) when Temporary Glare Screens are required.)

Add the following subsection:

00226.80(b)(5) Temporary Glare Screens - Temporary glare screens and moving temporary glare screens will be measured on the length basis, determined by measuring from end to end of the devices, as installed on temporary barrier along the line and grade of each separate run.

(Use the following lead-in paragraph and subsection .80(c) when mobile barrier is required.)

Add the following subsection:

00226.80(c) Time Basis - The quantity of mobile barrier will be measured on the time basis, of the number of Days the mobile barrier is in actual use on the Project according to the approved Traffic Control Plan. One mobile barrier will be allowed per Day unless otherwise approved.

(Use the following subsection .90 when mobile barrier or temporary glare screens are required. Delete Pay Items that do not apply, and delete "(s)" or parentheses as applicable.)

00226.90 Payment - Add the following Pay Item*(*s*)* to the end of the Pay Item list:

(o) Mobile Barrier..... Day

(p) Temporary Glare Screens..... Foot
(q) Moving Temporary Glare Screens ..... Foot

(Use the following three paragraphs when mobile barrier is required.)

Add the following paragraphs after the paragraph that begins "Item (l~~m~~) includes…":

Item (o) will be payment in full for all labor, training, Equipment, and Materials required for mobile barrier, regardless of length and number of moves. Item (s) will also be payment in full for operation of the semi-tractor truck in conjunction with the mobile barrier, training, service, maintenance, and all Incidentals necessary to complete the Work as specified.

Items (h) and (j) include truck mounted temporary impact attenuators attached to mobile barrier(s).

(Use the following three paragraphs when temporary glare screens are required.)

Add the following paragraphs after the paragraph that begins "Item (l~~m~~) includes…":

Item (p) includes furnishing, installing, and removing temporary glare screens.

Item (q) includes moving the temporary glare screens from one location of actual use to another location of actual use on the temporary barrier.