

1 **DIVISION8.GR8** **Miscellaneous Construction**

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3 **8-01.GR8** **Erosion Control and Water Pollution Control**

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5 **8-01.3.GR8** **Construction Requirements**

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7 **8-01.3(1).GR8** **General**

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9 **8-01.3(1).INST1.GR8** (The tenth paragraph of Section 8-01.3(1) is revised to
10 read)
11 Must use once preceding any of the following:

12
13 **8-01.3(1).OPT1.GR8** (Erodible Soil Eastern Washington)
14 (January 25, 2010)
15 Use for projects east of the Cascade range in areas
16 receiving 12 inches or less annual precipitation. Do not
17 use if any portion of the project lies in areas that
18 receive more than 12 inches of annual precipitation.
19 See [https://wsdot.wa.gov/engineering-](https://wsdot.wa.gov/engineering-standards/design-topics/hydraulics-hydrology)
20 [standards/design-topics/hydraulics-hydrology](https://wsdot.wa.gov/engineering-standards/design-topics/hydraulics-hydrology).

21
22 **8-01.3(1).INST2.GR8** (Section 8-01.3(1) is supplemented with the following)
23 Must use once preceding any of the following:

24
25 **8-01.3(1).OPT8.FR8** (Side Slope Treatment)
26 (April 1, 2002)
27 Use on projects where erodible soils are anticipated
28 and it is desired to have the newly exposed slopes
29 walked before final erosion control can be
30 accomplished, in accordance with recommendation
31 from environmental office.
32 (1 fill-in)

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34 **8-01.3(1)B.GR8** **Erosion and Sediment Control (ESC) Lead**

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36 **8-01.3(1)B.INST1.GR8** (Item number 3 and 4 in the second paragraph of
37 Section 8-01.3(1)B are revised to read)
38 Must use once preceding any of the following:

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40 **8-01.3(1)B.OPT1.GR8** (October 3, 2022)
41 Use on projects without a CSWGP that require
42 an ESC lead.

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44 **8-01.3(1)C.GR8** **Water Management**

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46 **8-01.3(1)C4.GR8** **Management of Off-Site Water**

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48 **8-01.3(1)C4.INST1.GR8** (Section 8-01.3(1)C4 is supplemented with the
49 following)
50 Must use once preceding any of the following:

51
52 **8-01.3(1)C4.OPT1.FR8** (Off-site stormwater routed through or around
53 Project site)
54 (August 6, 2012)

1 Use when there are known locations where
2 stormwater enters the project site and it is
3 desired to prevent this stormwater from flowing
4 uncontrolled through the project site.
5 (1 fill-in)
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7 **8-01.3(2).GR8**

Temporary Seeding and Mulching

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9 **8-01.3(2)B.GR8**

Temporary Seeding

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11 **8-01.3(2)B.INST1.GR8** (Section 8-01.3(2)B is supplemented with the
12 following)

13 Must use once preceding any of the following:

14
15 **8-01.3(2)B.OPT1.FR8**

(Composition, proportion, quality and application
rate of grass seed)
(August 4, 2014)

16
17 Use on projects where a common, non-native or
18 non-source-identified seed can be used. This
19 mix will generally be used within urban areas on
20 small areas of disturbance. The fill-ins for the
21 seed should be provided by the Region
22 Landscape Architect or Headquarters Roadside
23 and Site Development for regions without a
24 Landscape Architect.

25 (2 fill-ins) (Fill-ins with dollar signs only are to be
26 used as required)
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28
29 **8-01.3(2)B.OPT2.FR8**

(Composition, proportion, quality and
application rate of grass seed)
(August 4, 2014)

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31 Use in projects where the Region Landscape
32 Architect recommends source identified (local
33 genetics) native seed. The fill-ins should be
34 provided by the Region Landscape Architect or
35 Headquarters Roadside and Site Development
36 for regions without a Landscape Architect.

37 (3 fill-ins) (Fill-ins with dollar signs only are to be
38 used as required.)
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41 **8-01.3(2)B.OPT3.GR8**

(Seeding by hand)
(September 3, 2019)

42
43 Use in projects with seeding and fertilizing of less
44 than 1 acre, the use of mechanical equipment
45 would not be cost effective, or on remote projects
46 with many small areas.
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48 **8-01.3(2)B.OPT4.FR8**

(One application of fertilizer)
(January 3, 2006)

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50 Use in projects requiring only one application of
51 fertilizer.

52 (4 fill-ins) (The fill-ins for the fertilizer itself
53 should be by consulting the State Horticulturist,
54 the Region Landscape Architect, or

1 Headquarters Roadside and Site Development.
2 Fill-in \$\$\$ should be 2/3 the amount of
3 nitrogen in fill-in \$\$1\$\$.)
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5 [8-01.3\(2\)B.OPT8.FR8](#)

6 (Composition, proportion, quality and application
7 rate of grass seed)
8 (August 4, 2014)
9 Use in projects where the Region Landscape
10 Architect recommends native seed that is not
11 source identified. The fill-ins should be provided
12 by the Region Landscape Architect or
13 Headquarters Roadside and Site Development
14 for regions without a Landscape Architect.
15 (3 fill-ins)

16 [8-01.3\(2\)D.GR8](#)

Temporary Mulching

17 [8-01.3\(2\)D.INST1.GR8](#)

18 (Section 8-01.3(2)D is supplemented with the
19 following)

20 Must use once preceding any of the following:
21

22 [8-01.3\(2\)D.OPT1.FR8](#)

23 (Type and rate of application of mulch)
24 (January 5, 2015)
25 Use in projects requiring the application of mulch
26 when the application rate per acre or the
27 allowable pounds in any single lift are revised
28 from the Standard Specifications.
29 (3 fill-ins)

30 [8-02.GR8](#)

Roadside Restoration

31 [8-02.1.GR8](#)

Description

32 [8-02.1.INST1.GR8](#)

33 (Section 8-02.1 is supplemented with the following)
34 Must use once preceding any of the following:
35

36 [8-02.1.OPT1.GR8](#)

37 (Removal of Buried Previously Fabricated Debris)
38 (August 4, 2014)
39 Use on projects that include soil amendment, and/or
40 irrigation systems, and where previously fabricated
41 construction debris is known or suspected to exist.
42 Requires the approval of the Region Construction
43 Manager. Must include **8-02.3(5).OPT4.GR8** and **8-
44 02.5.OPT2.GR8**.

45 [8-02.1.OPT2.GR8](#)

46 (Biotic Soil Amendments)
47 (April 1, 2019)
48 Use on projects to amend poor quality soils (which have a
49 lack of organic matter and little to no bioactivity) using
50 Biotic Soil Amendments (BSAs). Should only be used if
51 the soil is determined to be deficient from the results of a
52 soil organic matter test or the soil analysis and the
53 application of compost or topsoil is not possible due to
54 steepness or access. Use requires the approval of the

1 Region Landscape Architect or the HQ Region Liaison
2 Landscape Architect.
3 Must also use **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-**
4 **02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

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6 **8-02.2.GR8**

Materials

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8 **8-02.2.INST1.GR8**

(Section 8-02.2 is supplemented with the following)
Must use once preceding the following:

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11 **8-02.2.OPT1.GR8**

(Conservation Grade Plant Material)
(January 3, 2011)
Use in projects that include “conservation grade” plant material in the plant list. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.

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18 **8-02.2.OPT2.GR8**

(Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

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32 **8-02.2(9-14).GR8**

(Erosion Control and Roadside Planting)

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34 **8-02.2(9-14).INST1.GR8**

(Section 9-14 is supplemented with the following)
Must use once preceding the following:

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36
37 **8-02.2(9-14).OPT1.FR8**

(Weed Barrier Mats)
(January 3, 2011)
Use in projects requiring weed barrier mats.
(1 fill-in) Fill-in is the staple length.
Contact the Region Landscape Architect or HQ Region Liaison Landscape Architect for fill-in information.

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44 **8-02.2(9-14.2).GR8**

(Topsoil)

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46 **8-02.2(9-14.2(1)).GR8**

(Topsoil Type A)
(Section 9-14.1(1) is supplemented with the following)
Must use once preceding any of the following:

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51 **8-02.2(9-14.2(1)).OPT1.FR8**

(February 25, 2021)
For use on projects where Topsoil Type A is needed for stormwater BMPs and for plant growth and establishment. Contact the

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Landscape Architect for fill-ins and depth of application.
(4 fill-ins)

8-02.2(9-14.5).GR8 (Mulch and Amendments)

8-02.2(9-14.5(8)).GR8 (Compost)
(Section 9-14.5(8) is supplemented with the following)
Must use once preceding any of the following:

8-02.2(9-14.5(8)).OPT2.GR8 (September 3, 2019)
May be used to allow biosolids compost on projects that do not use compost on stormwater BMPs. Use with concurrence of the Hydraulics Engineer.

8-02.3.GR8 Construction Requirements

8-02.3.INST1.GR8 (Section 8-02.3 is supplemented with the following)
Must use once preceding any of the following:

8-02.3.OPT1.GR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

8-02.3(3).GR8 Weed and Pest Control

8-02.3(3)A.GR8 Chemical Pesticides

8-02.3(3)A.INST1.GR8 (Section 8-02.3(3)A is supplemented with the following)
Must use once preceding any of the following:

8-02.3(3)A.OPT1.GR8 (Methods of weed control)
(September 2, 2025)
Use in projects with an ESA listed species that prohibits herbicide use within 200 feet of the waterbody.

8-02.3(4).GR8 Topsoil

8-02.3(4)A.GR8 Topsoil Type A

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8-02.3(4)A.INST1.GR8 (Section 8-02.3(4)A is supplemented with the following)
Must use once preceding any of the following:

8-02.3(4)A.OPT1.FR8 (Topsoil Type A)
(August 3, 2015)
Must include with **8-02.2(9-14.2(1)).OPT1.FR8**.

8-02.3(5).GR8 Roadside Seeding, Lawn and Planting Area Preparation

8-02.3(5).INST1.GR8 (Section 8-02.3(5) is supplemented with the following)
Must use once preceding any of the following:

8-02.3(5).OPT1.FR8 (Application of Compost)
(August 5, 2013)
Include when no incorporation of compost is required.
(1 fill-in)

8-02.3(5).OPT2.FR8 (Application of Compost)
(August 5, 2013)
Include when compost is to be incorporated into the soil and irrigation lines are included in the Contract.
(2 fill-ins)

8-02.3(5).OPT3.FR8 (Application of Compost)
(August 5, 2013)
Include when compost is to be incorporated onto the soil and there are no irrigation lines included in the Contract.
(2 fill-ins).

8-02.3(5).OPT4.GR8 (Removal of Buried Previously Fabricated Debris)
(August 4, 2014)
Must include with **8-02.1.OPT1.GR8** and **8-02.5.OPT2.GR8**.

8-02.3(6).GR8 Mulch and Amendments

8-02.3(6)B.GR8 Fertilizers

8-02.3(6)B.INST1.GR8 (Section 8-02.3(6)B is supplemented with the following)
Must use once preceding any of the following:

8-02.3(6)B.OPT1.FR8 (One application of fertilizer)
(September 3, 2019)
Use in projects requiring only one application of fertilizer.
(4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters Roadside and Site Development.

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Fill-in \$\$\$ should be $\frac{2}{3}$ the amount of nitrogen in fill-in \$\$1\$\$.)

[8-02.3\(6\)B.OPT2.FR8](#)

(More than one application of fertilizer)
(September 3, 2019)
Use in projects when the Region Landscape Arch. recommends more than one fertilizer application.
(7 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in \$\$7\$\$ should be $\frac{2}{3}$ the amount of nitrogen in fill-in \$\$4\$\$.)

[8-02.3\(6\)B.OPT3.GR8](#)

(Fertilizing by hand)
(September 3, 2019)
Must include with **8-02.3(9)B.OPT2.GR8**.
Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

[8-02.3\(6\)B.OPT4.FR8](#)

(Fertilizer Application in Eastern Washington)
(September 3, 2019)
Use this GSP for projects in eastern Washington where soils tests show excess potassium and phosphorous and high pH.

[8-02.3\(8\).GR8](#) **Planting**

[8-02.3\(8\).INST1.GR8](#)

(Section 8-02.3(8) is supplemented with the following)
Must use once preceding any of the following:

[8-02.3\(8\).OPT1.FR8](#)

(February 25, 2013)
Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.
(1 fill-in)

[8-02.3\(9\).GR8](#) **Seeding, Fertilizing, and Mulching**

[8-02.3\(9\)B.GR8](#) **Seeding and Fertilizing**

[8-02.3\(9\)B.INST1.GR8](#)

(Section 8-02.3(9)B is supplemented with the following)
Must use once preceding any of the following:

[8-02.3\(9\)B.OPT1.FR8](#)

(Composition, proportion, quality and application rate of grass seed)
(September 3, 2019)
Use in projects where the Region Landscape Architect recommends source identified (local genetics) native seed. The fill-ins should be

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[8-02.4.OPT2.GR8](#)

(Biotic Soil Amendments)
(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.

Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.5.OPT4.FR8**.

[8-02.5.GR8](#)

Payment

[8-02.5.INST1.GR8](#)

(Section 8-02.5 is supplemented with the following)
Must use once preceding any of the following:

[8-02.5.OPT2.GR8](#)

(Removal of Buried Previously Fabricated Debris)
(September 7, 2021)

Must include with **8-02.1.OPT1.GR8** and **8-02.3(5).OPT4.GR8**.

[8-02.5.OPT4.FR8](#)

(Biotic Soil Amendments)
(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.

(1 fill-in) (Fill-in #1 indicates which seed item will be used in conjunction with the BSA. Consult with the Region Landscape Architect to determine which permanent seeding item to use.)

Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.4.OPT2.GR8**.

[8-03.GR8](#)

Irrigation Systems

[8-03.3.GR8](#)

Construction Requirements

[8-03.3\(6\).GR8](#)

Excavation

[8-03.3\(6\)A.GR8](#)

Trenches

[8-03.3\(6\)A2.GR8](#)

Within Critical Root Zone

[8-03.3\(6\)A2.INST1.GR8](#) (Section 8-03.3(6)A2 is supplemented with the

following)
Must use once preceding any of the following:

[8-03.3\(6\)A2.OPT1.FR8](#) (Trenching in Critical Root Zone)
(October 3, 2022)
Use in projects when the Landscape Architect has indicated that locations of mechanical trenching will be allowed.
(1 fill-in)
Fill-in #1: Indicate locations where mechanical trenching within the critical root zone will be allowed. Contact Region Landscaping Office for assistance.

8-10.GR8 **Guide Posts**

8-10.1.GR8 **Description**

[8-10.1.INST1.GR8](#) (Section 8-10.1 is supplemented with the following)
Must use once preceding any of the following:

[8-10.1.OPT1.GR8](#) (Linear delineation panels)
(November 20, 2023)
Use in projects where linear delineation panels will be used.

Must also use **8-10.2.OPT1.GR8**, **8-10.3.OPT1.GR8**, **8-10.4.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

8-10.2.GR8 **Materials**

[8-10.2.INST1.GR8](#) (Section 8-10.2 is supplemented with the following)
Must use once preceding any of the following:

[8-10.2.OPT1.GR8](#) (Linear delineation panels)
(November 20, 2023)
Use in projects where linear delineation panels will be used.

Must also use **8-10.1.OPT1.GR8**, **8-10.3.OPT1.GR8**, **8-10.4.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

8-10.3.GR8 **Construction Requirements**

[8-10.3.INST1.GR8](#) (Section 8-10.3 is supplemented with the following)
Must use once preceding any of the following:

[8-10.3.OPT1.GR8](#) (Linear delineation panels)
November 20, 2023)
Use in projects where linear delineation panels will be used.

1 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
2 **10.4.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

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4 **8-10.4.GR8**

Measurement

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6 **8-10.4.INST1.GR8**

(Section 8-10.4 is supplemented with the following)
Must use once preceding any of the following:

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9 **8-10.4.OPT1.GR8**

(Linear delineation panels)
November 20, 2023)
Use in projects where linear delineation panels will be
used.

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14 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
15 **10.3.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

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17 **8-10.5.GR8**

Payment

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19 **8-10.5.INST1.GR8**

(Section 8-10.5 is supplemented with the following)
Must use once preceding any of the following:

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22 **8-10.5.OPT1.GR8**

(Linear delineation panels)
November 20, 2023)
Use in projects where linear delineation panels will be
used.

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27 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
28 **10.3.OPT1.GR8**, and **8-10.4.OPT1.GR8**.

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30 **8-11.GR8**

Guardrail

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32 **8-11.1.GR8**

Description

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34 **8-11.1.INST1.GR8**

(Section 8-11.1 is supplemented with the following)
Must use once preceding any of the following:

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37 **8-11.1.OPT1.GR8**

(High-Tension Cable Barrier System 4 Cable)
(February 3, 2020)
Must also use **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-**
38 **11.4.OPT2.GR8**, **8-11.5.OPT7.GR8**, and **8-11.5.OPT8.GR8**.

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42 **8-11.1.OPT2.GR8**

(Aesthetic Treatment for Beam Guardrail)
(January 7, 2019)
Use in all projects that require Aesthetic Treatment for
Beam Guardrail. This replaces the use of Weathering Steel
Beam Guardrail.
Must also use **8-11.2.OPT4.GR8**, **8-11.3.OPT4.GR8**, **8-**
43 **11.4.OPT4.GR8**, and **8-11.5.OPT1.GR8**.

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50 **8-11.1.OPT3.GR8**

(Short Radius Guardrail System (SRGS))
(November 4, 2024)

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Use in all projects with the Short Radius Guardrail System (SRGS) ~ Type 31 Intersection Design (Standard Plan C-20.44).
Must also use **8-11.2(9-16.3(1)).OPT1.GR8**, **8-11.2(9-16.3(4)).OPT3.GR8**, **8-11.3.OPT3.FR8**, **8-11.4.OPT3.GR8**, and **8-11.5.OPT2.GR8**.

[8-11.1.OPT4.GR8](#)

(Removing High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that require removing high tension cable barrier.
Must also use **8-11.3.OPT6.GR8**, **8-11.4.OPT5.GR8**, and **8-11.5.OPT3.GR8**.

[8-11.1.OPT5.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that reinstall or restore high tension cable barrier that has been removed.
Must also use **8-11.3.OPT7.GR8**, **8-11.4.OPT6.GR8**, and **8-11.5.OPT4.GR8**.

[8-11.2.GR8](#)

Materials

[8-11.2.INST1.GR8](#)

(Section 8-11.2 is supplemented with the following)
Must use once preceding any of the following:

[8-11.2.OPT1.FR8](#)

(High-Tension Cable Barrier Type for New Anchors)
(March 20, 2025)
Use in all projects that remove high-tension cable barrier when part of the run remains and a new anchor will need to be installed at the end.
(1 fill-in)
Fill-in #1 is the manufacturer and model of the existing cable barrier system.

[8-11.2.OPT2.FR8](#)

(High-Tension Cable Barrier System 4 Cable)
(November 20, 2023)
Must also use **8-11.1.OPT1.GR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8**, **8-11.5.OPT7.GR8**, and **8-11.5.OPT8.GR8**.
(1 fill-in)
Fill-in #1 is the maximum allowable lateral deflection distance for the high-tension cable barrier system(s).

[8-11.2.OPT4.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(January 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.1.OPT2.GR8**, **8-11.3.OPT4.GR8**, **8-11.4.OPT4.GR8**, and **8-11.5.OPT1.GR8**.

1 **8-11.2(9-16.3).GR8** (Beam Guardrail)

2
3 **8-11.2(9-16.3(1)).GR8** (Rail Element)
4 (Section 9-16.3(1) is supplemented with the following)
5 Must use once preceding any of the following:
6

7 **8-11.2(9-16.3(1)).OPT1.GR8** (Short Radius Guardrail System)
8 (November 4, 2024)
9 Use in all projects with the Short Radius Guardrail System
10 (SRGS) ~ Type 31 Intersection Design (Standard Plan C-
11 20.44).
12 Must also use **8-11.1.OPT3.GR8**, **8-11.2(9-
13 16.3(4)).OPT3.GR8**, **8-11.3.OPT3.FR8**, **8-11.4.OPT3.GR8**,
14 and **8-11.5.OPT2.GR8**.
15

16 **8-11.2(9-16.3(2)).GR8** (Posts and Blocks)

17
18 **8-11.2(9-16.3(2)).INST1.GR8** (Section 9-16.3(2) is supplemented with the
19 following)
20 Must use once preceding any of the following:
21

22 **8-11.2(9-16.3(2)).OPT1.GB8** (Steel shear plates and backing plates)
23 (November 20, 2023)
24 Use in thrie beam retrofit projects with beam guardrail
25 Type Thrie Beam using timber blockouts wedged
26 between openings in existing concrete baluster rails.
27 Include with **8-11.2(9-16.3(4)).OPT1.GB8**, **8-11.2(9-
28 16.3(4)).OPT2.GB8**, **8-11.3(1)A.OPT1.GB8**, and **8-
29 11.3(1)B.OPT7.GB8**.
30

31 **8-11.2(9-16.3(2)).OPT2.GB8** (Grout)
32 (April 6, 2015)
33 Use in thrie beam retrofit projects with beam guardrail
34 Type Thrie Beam using a steel post connection to the
35 existing concrete curb or railbase. Include with **8-
36 11.2(9-16.3(4)).OPT1.GB8**, and **8-
37 11.3(1)A.OPT2.GB8**.
38

39 **8-11.2(9-16.3(2)).OPT3.GB8** (Steel Angles for Timber Blockout
40 Connection to Truss)
41 (April 6, 2015)
42 Use in thrie beam retrofit projects with beam guardrail
43 Type Thrie Beam requiring timber blockout connection
44 to existing steel truss members. Include with **8-11.2(9-
45 16.3(4)).OPT2.GB8** and other appropriate GSPs
46 supplementing Sections 8-11.2 and 8-11.3(1).
47

48 **8-11.2(9-16.3(2)).OPT4.GB8** (Beam Guardrail Type WP Thrie Beam)
49 (April 6, 2015)
50 Use in thrie beam retrofit projects with weak post thrie
51 beam guardrail retrofit (beam guardrail Type WP Thrie
52 Beam). Include with **8-11.2(9-16.3(4)).OPT2.GB8**, **8-**

1 **11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, 8-**
2 **11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.**
3

4 **8-11.2(9-16.3(4)).GB8** (Hardware)
5 (Section 9-16.3(4) is supplemented with the following)
6 Must use once preceding any of the following:
7

8 **8-11.2(9-16.3(4)).OPT1.GB8** (Resin bonded anchors)
9 (November 23, 2023)
10 Use in thrie beam retrofit projects requiring resin
11 bonded anchors for connection to concrete baluster
12 railing end posts, and concrete curbs and railbases.
13 Include with **Either 8-11.2(9-16.3(2)).OPT1.GB8, 8-**
14 **11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8,**
15 **and 8-11.3(1)B.OPT7.GB8, or 8-11.2(9-**
16 **16.3(2)).OPT2.GB8 and 8-11.3(1)A.OPT2.GB8.**
17

18 **8-11.2(9-16.3(4)).OPT2.GB8** (Lag screws)
19 (April 6, 2015)
20 Use in thrie beam retrofit projects requiring
21 connections with lag screws to timber members and
22 blockouts.
23

24 **8-11.2(9-16.3(4)).OPT3.GR8** (Short Radius Guardrail System)
25 (November 4, 2024)
26 Use in all projects with the Short Radius Guardrail
27 System (SRGS) ~ Type 31 Intersection Design
28 (Standard Plan C-20.44).
29 Must also use **8-11.1.OPT3.GR8, 8-11.2(9-**
30 **16.3(1)).OPT1.GR8, 8-11.3.OPT3.FR8, 8-**
31 **11.4.OPT3.GR8, and 8-11.5.OPT2.GR8.**
32

33 **8-11.3.GR8** **Construction Requirements**

34
35 **8-11.3.INST1.GR8** (Section 8-11.3 is supplemented with the following)
36 Must use once preceding any of the following:
37

38 **8-11.3.OPT1.FR8** (Installing Steel Posts on Existing Box Culverts)
39 (October 3, 2022)
40 Must also use **8-11.4.OPT1.GR8** and **8-11.5.OPT6.GR8.**
41 Use in projects requiring the construction of steel guardrail
42 posts on top of existing concrete box culverts either by
43 embedding or bolting through the culvert wall.
44 (4 fill-ins)
45 Fill-in #1 is the box culvert location SR & MP.
46 Fill-in #2 is the contact name, phone number, and address
47 for delivery of box culvert steel post assemblies.
48 Fill-in #3 is the box culvert location SR & MP.
49 Fill-in #4 is the contact name, phone number, and address
50 for delivery of box culvert steel post assemblies.
51

52 **8-11.3.OPT2.FR8** (High-Tension Cable Barrier System 4 Cable)
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(September 2, 2025)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.**
Fill-in is the location(s) of Contracting Agency sites to deliver complete sets of Additional High-Tension Cable Barrier Components.
(1 fill-in)

[8-11.3.OPT3.FR8](#)

(Short Radius Guardrail System)
(November 4, 2024)
Use in all projects with the Short Radius Guardrail System (SRGS) ~ Type 31 Intersection Design (Standard Plan C-20.44).
(1 fill-in)
Fill-in should be either 8-foot, 16-foot, or 24-foot radius, and the location of the system(s).

Must also use **8-11.1.OPT3.GR8, 8-11.2(9-16.3(1)).OPT1.GR8, 8-11.2(9-16.3(4)).OPT3.GR8, 8-11.4.OPT3.GR8, and 8-11.5.OPT2.GR8.**

[8-11.3.OPT4.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(January 7, 2019)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

[8-11.3.OPT5.FR8](#)

(Installing Steel Posts on New Box Culverts)
(October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of new concrete box culverts either by embedding or bolting through the culvert wall.
Must also use **8-11.4.OPT1.GR8 and 8-11.5.OPT6.GR8.**
(4 fill-ins)
Fill-in #1 is the box culvert location SR & MP.
Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
Fill-in #3 is the box culvert location SR & MP.
Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.

[8-11.3.OPT6.GR8](#)

(Removing High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that require removing high tension cable barrier.
Must also use **8-11.1.OPT4.GR8, 8-11.4.OPT5.GR8, and 8-11.5.OPT3.GR8.**

[8-11.3.OPT7.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)

1 Use in all projects that reinstall or restore high tension cable
2 barrier that has been removed.
3 Must also use **8-11.1.OPT5.GR8**, **8-11.4.OPT6.GR8**, and **8-
4 11.5.OPT4.GR8**.

5
6 **8-11.3(1).GR8** **Beam Guardrail**

7
8 **8-11.3(1).INST1.GR8** (Section 8-11.3(1) is supplemented with the following)
9 Must use once preceding any of the following:

10
11 **8-11.3(1).OPT1.GR8** Post Selection
12 (April 5, 2010)
13 Use in all projects that specifically require wood
14 guardrail posts or specifically require steel guardrail
15 posts.

16
17 **8-11.3(1)A.GR8** **Erection of Posts**

18
19 **8-11.3(1)A.INST1.GR8** (Section 8-11.3(1)A is supplemented with the following)
20 Must use once preceding any of the following:

21
22 **8-11.3(1)A.OPT1.GB8** (Timber Blockouts for Beam Guardrail
23 Type Thrie Beam)
24 (April 6, 2015)
25 Use in thrie beam retrofit projects with beam
26 guardrail Type Thrie Beam using timber
27 blockouts wedged between openings in existing
28 concrete baluster rails. Include with **8-11.2(9-
29 16.3(2)).OPT1.GB8**, **8-11.2(9-
30 16.3(4)).OPT1.GB8**, **8-11.2(9-
31 16.3(4)).OPT2.GB8**, and **8-11.3(1)B.OPT7.GB8**.

32
33 **8-11.3(1)A.OPT2.GB8** (Steel Posts for Beam Guardrail Type
34 Thrie Beam)
35 (January 4, 2016)
36 Use in thrie beam retrofit projects with beam
37 guardrail Type Thrie Beam using a steel post
38 connection to the existing concrete curb or
39 railbase. Include with **8-11.2(9-
40 16.3(2)).OPT2.GB8**, **8-11.2(9-
41 16.3(4)).OPT1.GB8**, and **8-11.3(1)A.OPT2.GB8**.

42
43 **8-11.3(1)A.OPT3.GB8** (Beam Guardrail Type WP Thrie Beam)
44 (September 3, 2025)
45 Include in thrie beam retrofit projects with weak
46 post thrie beam guardrail retrofit (beam guardrail
47 Type WP Thrie Beam). Include with **8-11.2(9-
48 16.3(2)).OPT4.GB8**, **8-11.2(9-
49 16.3(4)).OPT2.GB8**, **8-11.3(1)B.OPT9.GB8**, **8-
50 11.3(1)H.OPT1.GB8**, and **8-
51 11.3(1)D.OPT1.GB8**.

52
53 **8-11.3(1)A.OPT4.GR8** (Guardrail posts on Structural Earth Walls)

(November 3, 2025)
Use in projects with structural earth walls when guardrail posts will be installed on top of the wall.

Include with **6-13.3(8).OPT1.GR6** and **8-11.5.OPT9.GR8**.

8-11.3(1)B.GR8 **Erection of Rail**

8-11.3(1)B.INST1.GR8 (Section 8-11.3(1)B is supplemented with the following)

Must use once preceding any of the following:

8-11.3(1)B.OPT6.GB8 (Field Measuring to Existing Type 3 Anchors)
(April 6, 2015)
Include in thrie beam retrofit projects when existing Type 3 anchors are being salvaged for reuse as part of the retrofitted guardrail system.

8-11.3(1)B.OPT7.GB8 (Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with **8-11.2(9-16.3(2)).OPT1.GB8**, **8-11.2(9-16.3(4)).OPT1.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, and **8-11.3(1)A.OPT1.GB8**.

8-11.3(1)B.OPT8.GB8 (Thrie Beam Expansion Joint Element)
(September 13, 2021)
Use in projects where the guardrail elements are continuous across interior bridge expansion joints. Contact HQ Design for the thrie beam expansion joint element detail to include in the project plans

8-11.3(1)B.OPT9.GB8 (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **8-11.2(9-16.3(2)).OPT4.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, **8-11.3(1)A.OPT3.GB8**, **8-11.3(1)H.OPT1.GB8**, and **8-11.3(1)D.OPT1.GB8**.

8-11.3(1)D.GR8 **Removing Guardrail**

8-11.3(1)D.INST1.GR8 (Section 8-11.3(1)D is supplemented with the following)
Must use once preceding any of the following:

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[8-11.3\(1\)D.OPT1.GB8](#) (Beam Guardrail Type WP Thrie Beam)
(September 8, 2020)
Include in thrie beam retrofit projects with weak post
thrie beam guardrail retrofit (beam guardrail Type WP
Thrie Beam). Include with **8-11.2(9-
16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-
11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-
11.3(1)H.OPT1.GB8.**

8-11.3(1)H.GR8 Guardrail Construction Exposed to Traffic

[8-11.3\(1\)H.INST1.GR8](#) (Section 8-11.3(1)H is supplemented with the following)
Must use once preceding any of the following:

[8-11.3\(1\)H.OPT1.GB8](#) (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Include in thrie beam retrofit projects with weak post
thrie beam guardrail retrofit (beam guardrail Type WP
Thrie Beam). Include with **8-11.2(9-
16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-
11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-
11.3(1)D.OPT1.GB8.**

8-11.4.GR8 Measurement

[8-11.4.INST1.GR8](#) (Section 8-11.4 is supplemented with the following)
Must use once preceding any of the following:

[8-11.4.OPT1.GR8](#) (Box Culvert Guardrail Steel Posts)
(October 3, 2022)
**Must include with 8-11.3.OPT1.FR8 or 8-11.3.OPT5.FR8,
and 8-11.5.OPT6.GR8.**
Use in projects requiring the construction of steel guardrail
posts on top of existing or new concrete box culverts.

[8-11.4.OPT2.GR8](#) (High-Tension Cable Barrier System 4 Cable)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-
11.3.OPT2.FR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.**

[8-11.4.OPT3.GR8](#) (Short Radius Guardrail System)
(November 4, 2024)
Use in all projects with the Short Radius Guardrail System
(SRGS) ~ Type 31 Intersection Design (Standard Plan C-
20.44).

Must also use **8-11.1.OPT3.GR8, 8-11.2(9-
16.3(1)).OPT1.GR8, 8-11.2(9-16.3(4)).OPT3.GR8, 8-
11.3.OPT3.FR8, and 8-11.5.OPT2.GR8.**

[8-11.4.OPT4.GR8](#) (Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)

1		Use in all projects that require Aesthetic Treatment for
2		Beam Guardrail.
3		Must also use 8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-
4		11.3.OPT4.GR8, and 8-11.5.OPT1.GR8.
5		
6	<u>8-11.4.OPT5.GR8</u>	(Removing High-Tension Cable Barrier)
7		(March 20, 2025)
8		Use in all projects that require removing high tension cable
9		barrier.
10		Must also use 8-11.1.OPT4.GR8, 8-11.3.OPT6.GR8, and 8-
11		11.5.OPT3.GR8.
12		
13	<u>8-11.4.OPT6.GR8</u>	(Restoring High-Tension Cable Barrier)
14		(March 20, 2025)
15		Use in all projects that reinstall or restore high tension cable
16		barrier that has been removed.
17		Must also use 8-11.1.OPT5.GR8, 8-11.3.OPT7.GR8, and 8-
18		11.5.OPT4.GR8.
19		
20	<u>8-11.5.GR8</u>	Payment
21		
22	<u>8-11.5.INST2.GR8</u>	(Section 8-11.5 is supplemented with the following)
23		Must use once preceding any of the following:
24		
25	<u>8-11.5.OPT1.GR8</u>	(Aesthetic Treatment for Beam Guardrail)
26		(April 2, 2018)
27		Use in all projects that require Aesthetic Treatment for
28		Beam Guardrail.
29		Must also use 8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-
30		11.3.OPT4.GR8, and 8-11.4.OPT4.GR8.
31		
32	<u>8-11.5.OPT2.GR8</u>	(Short Radius Guardrail System)
33		(November 4, 2024)
34		Use in all projects with the Short Radius Guardrail System
35		(SRGS) ~ Type 31 Intersection Design (Standard Plan C-
36		20.44).
37		
38		Must also use 8-11.1.OPT3.GR8, 8-11.2(9-
39		16.3(1)).OPT1.GR8, 8-11.2(9-16.3(4)).OPT3.GR8, 8-
40		11.3.OPT3.FR8, and 8-11.4.OPT3.GR8.
41		
42	<u>8-11.5.OPT3.GR8</u>	(Removing High-Tension Cable Barrier)
43		(March 20, 2025)
44		Use in all projects that require removing high tension cable
45		barrier.
46		Must also use 8-11.1.OPT4.GR8, 8-11.3.OPT6.GR8, and 8-
47		11.4.OPT5.GR8.
48		
49	<u>8-11.5.OPT4.GR8</u>	(Restoring High-Tension Cable Barrier)
50		(March 20, 2025)
51		Use in all projects that reinstall or restore high tension cable
52		barrier that has been removed.

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Must also use **8-11.1.OPT5.GR8**, **8-11.3.OPT7.GR8**, and **8-11.4.OPT6.GR8**.

[8-11.5.OPT6.GR8](#)

(Box Culvert Guardrail Steel Posts)
(October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts. Must include with **8-11.3.OPT1.FR8** or **8-11.3.OPT5.FR8**, and **8-11.4.OPT1.GR8**.

[8-11.5.OPT7.GR8](#)

(High-Tension Cable Barrier)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8**, **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8** and **8-11.5.OPT8.GR8**.

[8-11.5.OPT8.GR8](#)

(Additional High-Tension Cable Barrier Components)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8**, **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8** and **8-11.5.OPT7.GR8**. No Federal funding participation. Must be in state funds group.

[8-11.5.OPT9.GR8](#)

(Guardrail posts on Structural Earth Walls)
(November 3, 2025)
Use in projects with structural earth walls when guardrail posts will be installed on top of the wall.

Include with **6-13.3(8).OPT1.GR6** and **8-11.3(1)A.OPT4.GR8**.

[8-12.GR8](#) Chain Link Fence and Wire Fence

[8-12.2.GR8](#) Materials

[8-12.2.INST1.GR8](#) (Section 8-12.2 is supplemented with the following)
Must use once preceding any of the following:

[8-12.2.OPT1.FR8](#) (Coated chain link fence)
(September 8, 2020)
Use in projects requiring the construction of coated chain link fence. Must include **8-12.5.OPT1.GR8**.
(1 fill-in)

[8-12.5.GR8](#) Payment

[8-12.5.INST1.GR8](#) (Section 8-12.5 is supplemented with the following)
Must use once preceding any of the following:
Must use once preceding any of the following:

[8-12.5.OPT1.GR8](#) (Coated chain link fence)
(September 2, 2025)
Use in projects requiring the construction of coated chain link fence.

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2 **8-13.GR8**

3 **Monument Cases**

4 **8-13.1.GR8**

5 **Description**

6 **8-13.1.INST1.GR8**

7 (Section 8-13.1 is deleted and replaced by the following)
8 Must use once preceding any of the following:

9 **8-13.1.OPT1.GR8**

10 (Monument pipes included in work)
11 (March 13, 1995)
12 Must also use **8-13.2.OPT1.GR8**, **8-13.4.OPT1.GR8** and
13 **8-13.5.OPT1.GR8**.
14 Use in projects requiring that the monument pipes be
15 installed by the Contractor.

16 **8-13.2.GR8**

17 **Materials**

18 **8-13.2.INST1.GR8**

19 (Section 8-13.2 is supplemented with the following)
20 Must use once preceding any of the following:

21 **8-13.2.OPT1.GR8**

22 (Monument pipes included in work)
23 (March 13, 1995)
24 Must include with **8-13.1.OPT1.GR8**.
25 Use in projects requiring that the monument pipes be
26 installed by the Contractor.

27 **8-13.3.GR8**

28 **Construction Requirements**

29 **8-13.3(1).GR8**

30 **Monument Case and Cover**

31 **8-13.3(1).INST1.GR8**

32 (The last paragraph of Section 8-13.3(1) is revised to
33 read)
34 Must use once preceding any of the following:

35 **8-13.3(1).OPT1.GR8**

36 (Monument pipes included in work)
37 (March 13, 1995)
38 Use in projects requiring that the monument pipes be
39 installed by the Contractor.
40 Must include with **8-13.1.OPT1.GR8**.

41 **8-13.3(2).GR8**

42 **Adjust Monument Case and Cover**

43 **8-13.3(2)B.GR8**

44 **Reinstalling Monument Case and Cover**

45 **8-13.3(2)B.INST1.GR8**

46 (The first sentence of Section 8-13.3(2)B is revised to
47 read)
48 Must use once preceding any of the following:

49 **8-13.3(2)B.OPT1.GR8**

50 (October 3, 2022)
51 Use in projects where it is desired to reinstall the
52 monument case ¼" lower than grade, such as
53 routes that are subjected to frequent snow
plowing.

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8-13.4.GR8 **Measurement**

8-13.4.INST1.GR8 (Section 8-13.4 is deleted and replaced by the following)
Must use once preceding any of the following:

8-13.4.OPT1.GR8 (Monument pipes included in work)
(March 13, 1995)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

8-13.5.GR8 **Payment**

8-13.5.INST1.GR8 (Section 8-13.5 is supplemented with the following)
Must use once preceding any of the following:

8-13.5.OPT1.GR8 (Monument pipes included in work)
(April 28, 1997)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

8-14.GR8 **Cement Concrete Sidewalks**

8-14.2.GR8 **Materials**

8-14.2(9-19.1).GR8 (Surface Applied Detectable Warning Surface)

8-14.2(9-19.1(1)).GR8 (General Requirements)
(The first paragraph of Section 9-19.1(1) is revised to read)
Must use once preceding any of the following:

8-14.2(9-19.1(1)).OPT1.FR8 (Alternative color for detectable warning surfaces)
(October 3, 2022)
Use in projects where the color for detectable warning surfaces will not be yellow.
(1 fill-in)
Fill-in #1 is the color of the detectable warning surface.

8-14.2(9-19.2).GR8 (Cast-in-Place Detectable Warning Surface)

8-14.2(9-19.2(1)).GR8 (General Requirements)
(The first paragraph of Section 9-19.2(1) is revised to read)
Must use once preceding any of the following:

8-14.2(9-19.2(1)).OPT1.FR8 (Alternative color for detectable warning surfaces)
(October 3, 2022)

1 Use in projects where the color for detectable
2 warning surfaces will not be yellow.

3
4 (1 fill-in)
5 Fill-in #1 is the color of the detectable warning
6 surface.

7
8 **8-14.3.GR8** **Construction Requirements**

9
10 **8-14.3.INST1.GR8** (Section 8-14.3 is supplemented with the following)
11 Must use once preceding any of the following:

12
13 **8-14.3.OPT1.GR8** (Pre-construction meeting for cement concrete sidewalks,
14 curb ramps or other pedestrian access routes to discuss
15 ADA issues before Work begins)
16 (October 3, 2022)
17 Use in projects where pedestrian access route Work
18 (cement concrete sidewalks, curb ramps or other
19 pedestrian access) is proposed and it is felt that a pre-
20 construction meeting is needed by Region Construction
21 Office to discuss ADA compliance.

22
23 **8-14.3.OPT2.GR8** (Timing Restrictions)
24 (January 7, 2019)
25 Use in all projects that require any ADA Feature work
26 where the closure of pedestrian routes is subject to time
27 restrictions.
28 Must use with **1-05.4.OPT4.GR8**, and **8-14.3.OPT3.GR8**.

29
30 **8-14.3.OPT3.GR8** (Layout and Conformance to Grades)
31 (January 7, 2019)
32 Use in all projects that require any ADA Feature work. Use
33 with **1-05.4.OPT4.GR8**.

34
35 **8-15.GR8** **Riprap**

36
37 **8-15.4.GR8** **Measurement**

38
39 **8-15.4.INST1.GR8** (Section 8-15.4 is supplemented with the following)
40 Must use once preceding any of the following:

41
42 **8-15.4.OPT3.GR8** (Special excavation)
43 (March 13, 1995)
44 Must also use **8-15.5.OPT8.GR8**.
45 Use in projects requiring excavation outside the limits of
46 structure excavation for riprap at bridge piers located
47 within streams.

48
49 **8-15.4.OPT5.GR8** (Excavation for riprap is included in cost
50 of riprap)
51 (The last paragraph of Section 8-14.5 is deleted)
52 (February 5, 2001)
53 Must also use **8-15.5.OPT1.GR8**.

1 Use in projects with small quantities of riprap or upon
2 recommendation of the Construction and Materials Division.

3
4 **8-15.5.GR8** **Payment**

5
6 **8-15.5.INST1.GR8** (The first sentence of the second paragraph of Section 8-
7 15.5 is revised to read)
8 Must use once preceding any of the following:

9
10 **8-15.5.OPT1.GR8** (Excavation for riprap is included in cost of riprap)
11 (March 13, 1995)
12 Must include with **8-15.4.OPT5.GR8**.
13 Use in projects with small quantities of riprap or upon
14 recommendation of the Construction and Materials
15 Division.

16
17 **8-15.5.INST2.GR8** (Section 8-15.5 is supplemented with the following)
18 Must use once preceding the following:

19
20 **8-15.5.OPT8.GR8** (Special excavation)
21 (September 30, 1996)
22 Must include with **8-15.4.OPT3.GR8**.
23 Use in projects requiring excavation outside the limits of
24 structure excavation for riprap at bridge piers located
25 within streams.

26
27 **8-16.GR8** **Concrete Slope Protection**

28
29 **8-16.3.GR8** **Construction Requirements**

30
31 **8-16.3(2).GR8** **Placing Semi-Open Concrete Masonry Units**

32
33 **8-16.3(2).INST1.GR8** (Section 8-16.3(2) is supplemented with the following)
34 Must use once preceding any of the following:

35
36 **8-16.3(2).OPT1.GR8** (Requirements for semi-open precast masonry units)
37 (December 19, 2005)
38 Must include with **8-16.5.OPT1.GR8**.
39 Use in projects requiring semi-open concrete masonry
40 slope protection.

41
42 **8-16.5.GR8** **Payment**

43
44 **8-16.5.INST1.GR8** (Section 8-16.5 is supplemented with the following)
45 Must use once preceding any of the following:

46
47 **8-16.5.OPT1.GR8** (Semi-open Conc. Masonry Slope Protection)
48 (September 30, 1996)
49 Must include with **8-16.3(2).OPT1.GR8**.
50 Use in projects requiring semi-open concrete masonry
51 slope protection.

52
53 **8-20.GR8** **Illumination, Traffic Signal Systems, Intelligent Transportation**
54 **Systems, and Electrical**

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8-20.2.GR8

Materials

8-20.2.INST1.GR8

(Section 8-20.2 is supplemented with the following)
Must use once preceding any of the following:

8-20.2.OPT1.GB8

(Traffic Signal Shaft Foundation Shaft Casing and Slurry)
(April 6, 2015)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the State Geotechnical Office. Include with **8-20.3(4).OPT1.FB8** and **8-20.5.OPT1.GB8**.

8-20.2(9-29.1).GR8

(Conduit, Innerduct, and Outerduct)

8-20.2(9-29.1(11)).GR8

(Foam Conduit Sealant)
(Section 9-29.1(11) is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.1(11)).OPT1.GR8

(January 7, 2019)
Use in projects where new conduit is installed, wiring is added to existing conduit, or wiring is removed from existing conduit.

8-20.2(9-29.2).GR8

(Junction Boxes, Cable Vaults, and Pull Boxes)
(Section 9-29.2 is supplemented with the following):
Must use once preceding any of the following:

8-20.2(9-29.2).OPT1.GR8

(Slip-Resistant Surfacing)
(September 3, 2019)
Use in projects where junction boxes, cable vaults, pull boxes, or Structure mounted boxes require slip-resistant surfacing.

8-20.2(9-29.6).GR8

(Light and Signal Standards)
(Section 9-29.6 is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.6).OPT1.GR8

Light Standards With Type 1 Luminaire Arms
(January 6, 2025)
Use in projects requiring Type 1 luminaire arms and the Engineer is not required to verify the H1 distances shown in the Plans.

8-20.2(9-29.6).OPT2.GR8

Light Standards With Type 1 Luminaire Arms
(January 6, 2025)
Use in projects requiring Type 1 luminaire arms and H1 distances are not shown in the Plans or the Engineer is required to verify the H1 distances shown in the Plans.

8-20.2(9-29.6).OPT5.GR8

Traffic Signal Standards
(January 6, 2025)

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Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 1 luminaire arms, or both.

[8-20.2\(9-29.6\(3\)\).GR8](#) (Timber Light Standards, Timber Strain Poles, Timber Service Supports)
(Section 9-29.6(3) is supplemented with the following)
Must use preceding the following:

[8-20.2\(9-29.6\(3\)\).OPT1.GR8](#) (November 20, 2023)
Use in all projects with timber poles.

[8-20.2\(9-29.6\(5\)\).GR8](#) (Foundation Hardware)
(Section 9-29.6(5) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.6\(5\)\).OPT1.GR8](#) (January 13, 2021)
Use in all projects where light standards are to be installed on Traffic Barrier.

[8-20.2\(9-29.13\).GR8](#) (Control Cabinet Assemblies)
(Section 9-29.13 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\).OPT1.GR8](#) Uninterruptible Power Supply (UPS)
(January 2, 2018)
With Region Traffic Engineer approval, use in projects where Uninterruptible Power Supply (UPS) cabinets are required.

[8-20.2\(9-29.13\(10\)\).GR8](#)(NEMA and Type 2070 Controllers and Cabinets)

[8-20.2\(9-29.13\(10\)D\).GR8](#)(Cabinets for Type 2070 Controllers)

[8-20.2\(9-29.13\(10\)D\).INST2.GR8](#) (9-29.13(10)D is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(10\)D\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.13\(11\)\).GR8](#)(Traffic Data Accumulator and Ramp Meters)
(Section 9-29.13(11) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(11\)\).OPT1.GR8](#) (November 20, 2023)
Use in all projects where a Ramp Meter or ITS Data Station controller is required.

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[8-20.2\(9-29.13\(11\)\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.13\(12\)\).GR8](#)(Type 331L ITS Cabinet)

[8-20.2\(9-29.13\(12\)\).INST2.GR8](#) (Item 3 of Section 9-29.13(12) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(12\)\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.15\).GR8](#) (Flashing Beacon Control)
(Section 9-29.15 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.15\).OPT1.GR8](#) Rapid Flashing Beacons (RFB)
(May 5, 2025)
Use in projects where Rectangular Rapid Flashing Beacons (RRFBs) are required.

[8-20.2\(9-29.19\).GR8](#) (Pedestrian Push Buttons)
(Section 9-29.19 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.19\).OPT1.GR8](#) Accessible Pedestrian Signal (APS) Pushbuttons
(November 4, 2024)
Use in projects requiring accessible pedestrian signal (APS) pushbuttons. Do not use for RRFB system pushbuttons.

[8-20.2\(9-29.24\).GR8](#) (Service Cabinets)
(Item 3 of Section 9-29.24 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.24\).OPT1.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.25\).GR8](#) (Amplifier, Transformer, and Terminal Cabinets)
(Item 3 of Section 9-29.25 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.25\).OPT1.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(1\).GR8](#) Equipment List and Drawings

[8-20.2\(1\).INST1.GR8](#) (Section 8-20.2(1) is supplemented with the following)

Must use once preceding any of the following:

[8-20.2\(1\).OPT1.GR8](#) (Light standards when H1 dimension is shown on the Plans)
(March 13, 1995)
Use in projects with illumination systems and the lighting standard H1 dimension is shown in the Plans and verification by the Engineer is not required prior to fabrication.

[8-20.2\(1\).OPT2.GR8](#) (Light standards when H1 dimension is not Shown on the Plans or must be verified prior to fabrication)
(March 13, 1995)
Use in projects with illumination systems and the lighting standard H1 dimension is not shown in the Plans or the dimension shown in the Plans must be verified by the Engineer prior to fabrication.

[8-20.2\(1\).OPT3.GR8](#) (Traffic signal standards, strain pole standards or combination traffic signal/lighting standards)
(March 13, 1995)
Use in projects with traffic signal systems when standards are to be installed.

[8-20.3.GR8](#) Construction Requirements

[8-20.3\(1\).GR8](#) General

[8-20.3\(1\).INST1.GR8](#) (Section 8-20.3(1) is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(1\).OPT1.FR8](#) (Salvaged Equipment)
(November 20, 2023)
Use in projects with equipment to be removed which will stay the property of WSDOT.
(Five fill-ins).

[8-20.3\(4\).GR8](#) Foundations

[8-20.3\(4\).INST1.GR8](#) (Section 8-20.3(4) is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(4\).OPT1.FB8](#) (Shafts for Signal Standard Foundations)
(August 7, 2017)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the State Geotechnical Office. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements. Include with **8-20.2.OPT1.GB8** and **8-20.5.OPT1.GB8**.
(One fill-in).

1 **8-20.3(5).GR8** **Conduit**

2
3 **8-20.3(5)E.GR8** **Method of Conduit Installation**

4
5 **8-20.3(5)E.INST1.GR8** (Section 8-20.3(5)E is supplemented with the
6 following)
7 Must use once preceding any of the following:

8
9 **8-20.3(5)E.OPT1.GR8** (CDF Encased ITS Conduit)
10 (February 6, 2023)
11 Use in projects where 4-inch ITS conduits are
12 required to be encased in Controlled Density Fill
13 (CDF) when installed by open trenching.

14
15 **8-20.3(8).GR8** **Wiring**

16
17 **8-20.3(8).INST1.GR8** (Section 8-20.3(8) is supplemented with the following)
18 Must use once preceding any of the following:

19
20 **8-20.3(8).OPT1.GR8** Field Wiring Chart
21 (March 13, 1995)
22 Use in projects with traffic signal systems.

23
24 **8-20.3(14).GR8** **Signal Systems**

25
26 **8-20.3(14)A.GR8** **Signal Controllers**

27
28 **8-20.3(14)A.INST1.GR8** (Section 8-20.3(14)A is supplemented with the
29 following)
30 Must use once preceding any of the following:

31
32 **8-20.3(14)A.OPT1.GR8** Testing
33 (August 2, 2010)
34 Use in projects with Contractor furnished signal
35 controllers.

36
37 **8-20.5.GR8** **Payment**

38
39 **8-20.5.INST1.GR8** (Section 8-20.5 is supplemented with the following)
40 Must use once preceding any of the following:

41
42 **8-20.5.OPT1.GB8** (Removing Traffic Signal Shaft Obstructions)
43 (April 6, 2015)
44 Use in traffic signal projects with shaft foundations in weak
45 soils, with the concurrence of the State Geotechnical
46 Office. Include with **8-20.2.OPT1.GB8** and **8-**
47 **20.3(4).OPT1.FB8**.

48
49 **8-21.GR8** **Permanent Signing**

50
51 **8-21.2.GR8** **Materials**

52
53 **8-21.2(9-06.16).GR8** (Roadside Sign Structures)

(Section 9-06.16 is supplemented with the following)
Must use once preceding the following:

[8-21.2\(9-06.16\).OPT1.GR8](#) (January 3, 2011)

Use in projects with perforated steel square sign posts.

[8-21.2\(9-28.1\).GR8](#)

(General)

(The last paragraph of Section 9-28.1 is revised to read)

Must use once preceding any of the following:

[8-21.2\(9-28.1\).OPT1.2027.GR8](#) (January 5, 2026)

Use in all projects.

[8-21.2\(9-28.11\).GR8](#)

(Hardware)

(Section 9-28.11 is supplemented with the following)

Must use once preceding any of the following:

[8-21.2\(9-28.11\).OPT1.GB8](#) (Overhead Sign Structure Locknuts)

(August 3, 2015)

Use in all projects with overhead sign structures (sign bridge, cantilever sign structure, bridge mounted sign bracket).

[8-21.2\(9-28.12\).GR8](#)

(Reflective Sheeting)

(Section 9-28.12 is revised to read)

Must use once preceding any of the following:

[8-21.2\(9-28.12\).OPT1.2027.GR8](#) (January 5, 2026)

Use in all projects.

[8-21.2\(9-28.14\).GR8](#)

(Sign Support Structures)

(Section 9-28.14 is supplemented with the following)

Must use once preceding any of the following:

[8-21.2\(9-28.14\).OPT6.GR8](#) (Roadside Signing Material and Fabrication)

(September 8, 2020)

Use in all projects that have steel sign supports.

[8-21.3.GR8](#)

Construction Requirements

[8-21.3\(9\).GR8](#)

Sign Structures

[8-21.3\(9\)A.GR8](#)

Fabrication of Sign Structures

[8-21.3\(9\)A1.GR8](#)

Fabrication of Monotube Sign Bridges and Cantilever Sign Structures

[8-21.3\(9\)A1.INST1.GR8](#) (Section 8-21.3(9)A1 is supplemented with the following)

Must use once preceding any of the following:

[8-21.3\(9\)A1.OPT1.FB8](#) (Non-Conventional Paint Color)
(September 8, 2020)

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Use in projects with monotube sign bridges and/or monotube cantilever sign structures painted a color other than the conventionally specified gray color. Include with **8-21.4.OPT1.FB8**. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number.
(1 fill-in)

8-21.3(9)E.GR8 **Bridge Mounted Sign Brackets**

8-21.3(9)E.INST1.GR8 (Section 8-21.3(9)E is supplemented with the following)
Must use once preceding any of the following:

8-21.3(9)E.OPT1.FB8 (Bridge Mounted Sign Brackets)
(November 20, 2023)
Use in projects with bridge mounted sign brackets. The first and third fill-ins specify the sign bracket number(s). The second fill-in itemizes the structural carbon steel quantity for each sign bracket. The fourth fill-in specifies the quantity of hole drilling required for the resin bonded anchors for each sign bracket.
(4 fill-ins)

8-21.3(9)F.GR8 **Foundations**

8-21.3(9)F1.GR8 **Fabrication of Monotube Sign Bridges and Cantilever Sign Structures**

8-21.3(9)F1.INST1.GR8 (Section 8-21.3(9)F1 is supplemented with the following)
Must use once preceding any of the following:

8-21.3(9)F1.OPT1.FB8 (Temporary Casing Requirements)
(September 8, 2020)
Use in sign structure projects with shaft foundations where the shaft diameter is 48 inches or greater, or where the shaft depth is 15 feet or greater, or where the State Geotechnical Office identifies the foundation soils as sufficiently weak to require use of this specification. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements.
(1 fill-in)

8-21.4.GR8 **Measurement**

8-21.4.INST1.GR8 (Section 8-21.4 is supplemented with the following)
Must use once preceding any of the following:

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[8-21.4.OPT1.FB8](#)

(Monotube Sign Structures)
(September 8, 2020)

Use in projects with monotube sign bridges and/or monotube cantilever sign structures. The first fill in specifies the type of sign structure work included (sign bridge or cantilever sign structure or both). The second fill-in itemizes the quantities and work involved with each sign structure.
(2 fill-ins)

[8-23.GR8](#)

Temporary Pavement Markings

[8-23.2.GR8](#)

Materials

[8-23.2\(9-34\).GR8](#)

(Pavement Marking Material)
(Section 9-34 is supplemented with the following)
Must use once preceding any of the following:

[8-23.2\(9-34\).OPT1.GR8](#) (October 3, 2022)

Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.3(4)A.OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

[8-23.3.GR8](#)

Construction Requirements

[8-23.3\(4\).GR8](#)

Pavement Marking Application

[8-23.3\(4\)A.GR8](#)

Temporary Pavement Markings – Short Duration

[8-23.3\(4\)A.INST1.GR8](#) (Section 8-23.3(4)A is supplemented with the following)
Must use once preceding any of the following:

[8-23.3\(4\)A.OPT1.GR8](#)

(Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.2(9-34).OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

[8-23.4.GR8](#)

Measurement

[8-23.4.INST1.GR8](#)

(Section 8-23.4 is supplemented with the following)
Must use once preceding any of the following:

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[8-23.4.OPT1.GR8](#) (Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include [8-23.2\(9-34\).OPT1.GR8](#), [8-23.3\(4\)A.OPT1.GR8](#), and [8-23.5.OPT1.GR8](#).

[8-23.5.GR8](#) Payment

[8-23.5.INST1.GR8](#) (Section 8-23.5 is supplemented with the following)
Must use once preceding any of the following:

[8-23.5.OPT1.GR8](#) (Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include [8-23.2\(9-34\).OPT1.GR8](#), [8-23.3\(4\)A.OPT1.GR8](#), and [8-23.4.OPT1.GR8](#).

[8-24.GR8](#) Rock and Gravity Block Wall, and Gabion Cribbing

[8-24.2.GR8](#) Materials

[8-24.2.INST1.GR8](#) (Section 8-24.2 is supplemented with the following)
Must use once preceding any of the following:

[8-24.2.OPT1.GR8](#) (Gravity Block Wall)
(November 2, 2022)
Use in projects constructing gravity block walls. Include with [8-24.3\(2\).OPT1.GR8](#).

[8-24.3.GR8](#) Construction Requirements

[8-24.3\(2\).GR8](#) Gravity Block Wall

[8-24.3\(2\).INST1.GR8](#) (Section 8-24.3(2) is supplemented with the following)
Must use once preceding any of the following:

[8-24.3\(2\).OPT1.GR8](#) (Gravity Block Wall)
(September 2, 2025)
Use in projects constructing gravity block walls. Include with [8-24.2.OPT1.GR8](#).

[8-25.GR8](#) Glare Screen

[8-25.1.GR8](#) Description

[8-25.1.INST1.GR8](#) (Section 8-25.1 is supplemented with the following)
Must use once preceding any of the following:

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[8-25.1.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.

[8-25.2.GR8](#) **Materials**

[8-25.2.INST1.GR8](#) (Section 8-25.2 is supplemented with the following)
Must use once preceding any of the following:

[8-25.2.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
Must use with **8-25.1.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.**

[8-25.3.GR8](#) **Construction Requirements**

[8-25.3.INST1.GR8](#) (Section 8-25.3 is supplemented with the following)
Must use once preceding any of the following:

[8-25.3.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.

[8-25.4.GR8](#) **Measurement**

[8-25.4.INST1.GR8](#) (Section 8-25.4 is supplemented with the following)
Must use once preceding any of the following:

[8-25.4.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.5.OPT1.GR8.

[8-25.5.GR8](#) **Payment**

[8-25.5.INST1.GR8](#) (Section 8-25.5 is supplemented with the following)
Must use once preceding any of the following:

[8-25.5.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.4.OPT1.GR8.

[8-29.GR8](#) **Wire Mesh Slope Protection**

[8-29.1.GR8](#) **Description**

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[8-29.1.INST1.GR8](#) (Section 8-29.1 is supplemented with the following)
Must use once preceding any of the following:

[8-29.1.OPT1.GR8](#) (Cable Net Slope Protection)
(April 5, 2010)
Use in projects with cable net slope protection. Include with [8-29.2.OPT1.GR8](#), [8-29.3.OPT1.GR8](#), [8-29.4.OPT1.GR8](#) and [8-29.5.OPT1.GR8](#).

[8-29.2.GR8](#) Materials

[8-29.2.INST1.GR8](#) (Section 8-29.2 is supplemented with the following)
Must use once preceding any of the following:

[8-29.2.OPT1.GR8](#) (Cable Net Slope Protection Materials)
(January 2, 2018)
Use in projects with cable net slope protection. Include with [8-29.1.OPT1.GR8](#), [8-29.3.OPT1.GR8](#), [8-29.4.OPT1.GR8](#) and [8-29.5.OPT1.GR8](#).

[8-29.3.GR8](#) Construction Requirements

[8-29.3.INST1.GR8](#) (Section 8-29.3 is supplemented with the following)
Must use once preceding any of the following:

[8-29.3.OPT1.GR8](#) (Cable Net Slope Protection Construction Requirements)
(January 3, 2011)
Use in projects with cable net slope protection. Include with [8-29.1.OPT1.GR8](#), [8-29.2.OPT1.GR8](#), [8-29.4.OPT1.GR8](#) and [8-29.5.OPT1.GR8](#).

[8-29.4.GR8](#) Measurement

[8-29.4.INST1.GR8](#) (Section 8-29.4 is supplemented with the following)
Must use once preceding any of the following:

[8-29.4.OPT1.GR8](#) (Cable Net Slope Protection)
(April 5, 2010)
Use in projects with cable net slope protection. Include with [8-29.1.OPT1.GR8](#), [8-29.2.OPT1.GR8](#), [8-29.3.OPT1.GR8](#), and [8-29.5.OPT1.GR8](#).

[8-29.5.GR8](#) Payment

[8-29.5.INST1.GR8](#) (Section 8-29.5 is supplemented with the following)
Must use once preceding any of the following:

[8-29.5.OPT1.GR8](#) (Cable Net Slope Protection)
(January 3, 2011)
Use in projects with cable net slope protection. Include with [8-29.1.OPT1.GR8](#), [8-29.2.OPT1.GR8](#), [8-29.3.OPT1.GR8](#), and [8-29.4.OPT1.GR8](#).

1 **8-30.GR8** **Streams, Rivers, and Waterbodies**

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4 **8-30.3(2).GR8** **General**

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6 **8-30.3(2).INST1.GR8** (Section 8-30.3(2) is supplemented with the following)
7 Must use once preceding any of the following:

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9 **8-30.3(2).OPT1.FR8** (Blending Streambed Aggregates)
10 (February 13, 2024)
11 Use in projects with streambed aggregates.

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13 **8-31.GR8** **Temporary Stream Diversion**

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15 **8-31.3.GR8** **Construction Requirements**

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17 **8-31.3(1).GR8** **General**

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19 **8-31.3(1)A.GR8** **General TSD Requirements**

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21 **8-31.3(1)A.INST1.GR8** (Section 8-31.3(1)A is supplemented with the
22 following)
23 Must use once preceding any of the following:

24
25 **8-31.3(1)A.OPT1.FR8** (Minimum Stream Flows)
26 (October 3, 2022)
27 Use in all projects requiring a temporary stream
28 diversion. Contact the HQ Hydraulics Office for
29 fill-in information.
30 If a contingency system is required, must also
31 use **8-31.3(1)A.OPT2.FR8**.
32 (1 fill-in)
33 Fill-in #1 is the minimum flow rate for the
34 temporary stream diversion.

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36 **8-31.3(1)A.OPT2.FR8** (Minimum Stream Flows (Contingency System))
37 (October 3, 2022)
38 Use in all projects requiring a contingency
39 system for temporary stream. Contact the HQ
40 Hydraulics Office for fill-in information.
41 Must also use **8-31.3(1)A.OPT1.FR8**.
42 (1 fill-in)
43 Fill-in #1 is the minimum flow rate for the
44 contingency system.

45
46 **8-31.3(3).GR8** **Fish Block Net Installation and Fish and Aquatic Species**
47 **Exclusion**

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49 **8-31.3(3)B.GR8** **Contracting Agency Provided Materials**

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51 **8-31.3(3)B.INST1.GR8** (Section 8-31.3(1)B is supplemented with the
52 following)
53 Must use once preceding any of the following:

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[8-31.3\(3\)B.OPT1.FR8](#)

(Contracting Agency Furnished Materials)
(October 3, 2022)
Use in all projects where the Contracting Agency is supplying fish exclusion materials such as nets, sandbags, posts, or other materials required to complete fish exclusion including installing fish block nets.
(1 fill-in)
Fill-in #1 is the materials that will be supplied by the Contracting Agency.

[8-SA1.GR8](#)

Field Office Building

(August 7, 2017)
Use in projects when a field office building is required.

[8-SA2.GR8](#)

Bollards

(October 3, 2022)
Use in projects requiring bollards.
Contact Headquarters Design Standard Plans Office for plan details on Type 3 Bollards.

[8-SA3.GR8](#)

(Environmental Compliance)

(August 6, 2018)
For use on projects where the project has a high risk of soil erosion due to soil type, slope gradient and work in or has proximity to waters of the State (Hydraulics Runoff Manual (HRM) defines projects susceptible for high-risk soil erosion). Also for use on projects where there is extensive monitoring of environmental permit compliance.
The Region Construction Engineer and Region Environmental Office should be consulted for use as the provision introduces an Environmental Compliance Lead person that incorporates, expands, and replaces the duties of the ESC Lead person.

[8-SA5.GR8](#)

(Woody Material)

(January 6, 2025)
For use on projects that have logs with or without rootwads or slash materials.