

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

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

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5 **8-01.2.GR8** **Materials**

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7 **8-01.2(9-14.6(4)A).GR8** (Check Dams)
8 (Section 9-14.6(4) is revised to read)
9 Must use preceding the following:

10
11 **8-01.2(9-14.6(4)A).OPT1.2025.GR8** (No Wattles in Check Dams)
12 (February 13, 2024)
13 Use in all projects that require or may require check
14 dams.

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16 **8-01.3.GR8** **Construction Requirements**

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18 **8-01.3(1).GR8** **General**

19
20 **8-01.3(1).INST1.GR8** (The tenth paragraph of Section 8-01.3(1) is revised to
21 read)
22 Must use once preceding any of the following:

23
24 **8-01.3(1).OPT1.GR8** (Erodible Soil Eastern Washington)
25 (January 25, 2010)
26 Use for projects east of the Cascade range in areas
27 receiving 12 inches or less annual precipitation. Do not
28 use if any portion of the project lies in areas that
29 receive more than 12 inches of annual precipitation.
30 See <https://wsdot.wa.gov/engineering-standards/design-topics/hydraulics-hydrology>.

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32
33 **8-01.3(1).INST2.GR8** (Section 8-01.3(1) is supplemented with the following)
34 Must use once preceding any of the following:

35
36 **8-01.3(1).OPT8.FR8** (Side Slope Treatment)
37 (April 1, 2002)
38 Use on projects where erodible soils are anticipated
39 and it is desired to have the newly exposed slopes
40 walked before final erosion control can be
41 accomplished, in accordance with recommendation
42 from environmental office.
43 (1 fill-in)

44
45 **8-01.3(1)B.GR8** **Erosion and Sediment Control (ESC) Lead**

46
47 **8-01.3(1)B.INST1.GR8** (Item number 3 and 4 in the second paragraph of
48 Section 8-01.3(1)B are revised to read)
49 Must use once preceding any of the following:

50
51 **8-01.3(1)B.OPT1.GR8** (October 3, 2022)
52 Use on projects without a CSWGP that require
53 an ESC lead.
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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.

[8-01.3\(2\)B.OPT4.FR8](#)

(One application of fertilizer)
(January 3, 2006)
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. Fill-in \$\$4\$\$ should be 2/3 the amount of nitrogen in fill-in \$\$1\$\$.)

[8-01.3\(2\)B.OPT8.FR8](#)

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

[8-01.3\(2\)D.GR8](#) **Temporary Mulching**

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

(Section 8-01.3(2)D is supplemented with the following)
Must use once preceding any of the following:

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

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

[8-01.3\(6\).GR8](#) **Check Dams**

[8-01.3\(6\).INST1.GR8](#)

(The second and third paragraphs of Section 8-01.3(6) are revised to read)
Must use once preceding any of the following:

[8-01.3\(6\).OPT1.2025.GR8](#)

(No Wattles in Check Dams)
(February 13, 2024)
Use in all projects that require or may require check dams.

[8-02.GR8](#) **Roadside Restoration**

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8-02.1.GR8

Description

8-02.1.INST1.GR8

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

8-02.1.OPT1.GR8

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

8-02.1.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 **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

8-02.2.GR8

Materials

8-02.2.INST1.GR8

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

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.

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**.

1 [8-02.2\(9-14\).GR8](#) (Erosion Control and Roadside Planting)

2
3 [8-02.2\(9-14\).INST1.GR8](#) (Section 9-14 is supplemented with the following)
4 Must use once preceding the following:

5
6 [8-02.2\(9-14\).OPT1.FR8](#) (Weed Barrier Mats)
7 (January 3, 2011)
8 Use in projects requiring weed barrier mats.
9 (1 fill-in) Fill-in is the staple length.
10 Contact the Region Landscape Architect or HQ Region
11 Liaison Landscape Architect for fill-in information.

12
13 [8-02.2\(9-14.2\).GR8](#) (Topsoil)

14
15 [8-02.2\(9-14.2\(1\)\).GR8](#) (Topsoil Type A)
16 (Section 9-14.1(1) is supplemented with the
17 following)
18 Must use once preceding any of the following:

19
20 [8-02.2\(9-14.2\(1\)\).OPT1.FR8](#) (February 25, 2021)
21 For use on projects where Topsoil Type A is
22 needed for stormwater BMPs and for plant
23 growth and establishment. Contact the
24 Landscape Architect for fill-ins and depth of
25 application.
26 (4 fill-ins)

27
28 [8-02.2\(9-14.5\).GR8](#) (Mulch and Amendments)

29
30 [8-02.2\(9-14.5\(8\)\).GR8](#) (Compost)
31 (Section 9-14.5(8) is supplemented with the
32 following)
33 Must use once preceding any of the following:

34
35 [8-02.2\(9-14.5\(8\)\).OPT2.GR8](#) (September 3, 2019)
36 May be used to allow biosolids compost on
37 projects that do not use compost on
38 stormwater BMPs. Use with concurrence
39 of the Hydraulics Engineer.

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41 **[8-02.3.GR8](#) Construction Requirements**

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43 [8-02.3.INST1.GR8](#) (Section 8-02.3 is supplemented with the following)
44 Must use once preceding any of the following:

45
46 [8-02.3.OPT1.GR8](#) (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

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[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. Fill-in \$\$\$ should be 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 \$\$\$ should be 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 provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)

[8-02.3\(9\)B.OPT2.GR8](#)

(Seeding by hand)
(September 3, 2019)
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\(9\)B.OPT3.FR8](#)

(Composition, proportion, quality and application rate of grass seed)
(September 3, 2019)
Use in projects where the Region Landscape Architect recommends native seed that is not source identified. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins)

[8-02.3\(11\).GR8](#)

Mulch

[8-02.3\(11\).INST1.GR8](#)

(Section 8-02.3(11) is supplemented with the following)
Must use once preceding any of the following:

[8-02.3\(11\).OPT1.FR8](#)

(Placement of Bark or Wood Chip Mulch)
(April 2, 2012)
Use in projects requiring bark and wood chip mulch. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.
(1 fill-in)

[8-02.3\(11\)A.GR8](#)

Mulch for Seeding Areas

[8-02.3\(11\)A.INST1.GR8](#)

(Section 8-02.3(11)A is supplemented with the following)
Must use once preceding any of the following:

[8-02.3\(11\)A.OPT1.FR8](#)

(Type and rate of application of mulch)
(September 3, 2019)
Use in projects requiring the application of mulch when the application rate per acre or the

allowable pounds in any single lift are revised from the Standard Specifications.
(3 fill-ins)

8-02.4.GR8 **Measurement**

8-02.4.INST1.GR8 (Section 8-02.4 is supplemented with the following)
Must use once preceding any of the following:

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**

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

Must also use [8-10.1.OPT1.NEW.GR8](#), [8-10.2.OPT1.NEW.GR8](#), [8-10.4.OPT1.NEW.GR8](#), and [8-10.5.OPT1.NEW.GR8](#).

[8-10.4.GR8](#) Measurement

[8-10.4.INST1.GR8](#) (Section 8-10.4 is supplemented with the following)
Must use once preceding any of the following:

[8-10.4.OPT1.NEW.GR8](#) (Linear delineation panels)
November 20, 2023)
Use in projects where linear delineation panels will be used.

Must also use [8-10.1.OPT1.NEW.GR8](#), [8-10.2.OPT1.NEW.GR8](#), [8-10.3.OPT1.NEW.GR8](#), and [8-10.5.OPT1.NEW.GR8](#).

[8-10.5.GR8](#) Payment

[8-10.5.INST1.GR8](#) (Section 8-10.5 is supplemented with the following)
Must use once preceding any of the following:

[8-10.5.OPT1.NEW.GR8](#) (Linear delineation panels)
November 20, 2023)
Use in projects where linear delineation panels will be used.

Must also use [8-10.1.OPT1.NEW.GR8](#), [8-10.2.OPT1.NEW.GR8](#), [8-10.3.OPT1.NEW.GR8](#), and [8-10.4.OPT1.NEW.GR8](#).

[8-11.GR8](#) Guardrail

[8-11.1.GR8](#) Description

[8-11.1.INST1.GR8](#) (Section 8-11.1 is supplemented with the following)
Must use once preceding any of the following:

[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](#), [8-11.4.OPT2.GR8](#), [8-11.5.OPT7.GR8](#), and [8-11.5.OPT8.GR8](#).

[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**, **8-11.4.OPT4.GR8**, and **8-11.5.OPT1.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.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**.

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

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

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

8-11.2(9-16.3(2)).OPT1.GB8 (Steel shear plates and backing plates)
(November 20, 2023)
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(4)).OPT1.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, **8-11.3(1)A.OPT1.GB8**, and **8-11.3(1)B.OPT7.GB8**.

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

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2 [8-11.2\(9-16.3\(2\)\).OPT3.GB8](#) (Steel Angles for Timber Blockout
3 Connection to Truss)
4 (April 6, 2015)
5 Use in thrie beam retrofit projects with beam guardrail
6 Type Thrie Beam requiring timber blockout connection
7 to existing steel truss members. Include with **8-11.2(9-
8 16.3(4)).OPT2.GB8 and other appropriate GSPs**
9 **supplementing Sections 8-11.2 and 8-11.3(1).**

10
11 [8-11.2\(9-16.3\(2\)\).OPT4.GB8](#) (Beam Guardrail Type WP Thrie Beam)
12 (April 6, 2015)
13 Use in thrie beam retrofit projects with weak post thrie
14 beam guardrail retrofit (beam guardrail Type WP Thrie
15 Beam). Include with **8-11.2(9-16.3(4)).OPT2.GB8, 8-
16 11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, 8-
17 11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.**

18
19 [8-11.2\(9-16.3\(4\)\).GB8](#) (Hardware)
20 (Section 9-16.3(4) is supplemented with the following)
21 Must use once preceding any of the following:
22

23 [8-11.2\(9-16.3\(4\)\).OPT1.GB8](#) (Resin bonded anchors)
24 (April 6, 2015)
25 Use in thrie beam retrofit projects requiring resin
26 bonded anchors for connection to concrete baluster
27 railing end posts, and concrete curbs and railbases.
28 Include with **Either 8-11.2(9-16.3(2)).OPT1.GB8, 8-
29 11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8,
30 and 8-11.3(1)B.OPT7.GB8, or 8-11.2(9-
31 16.3(2)).OPT2.GB8 and 8-11.3(1)A.OPT2.GB8.**

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33 [8-11.2\(9-16.3\(4\)\).OPT2.GB8](#) (Lag screws)
34 (April 6, 2015)
35 Use in thrie beam retrofit projects requiring
36 connections with lag screws to timber members and
37 blockouts.
38

39 **[8-11.3.GR8](#) Construction Requirements**

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41 [8-11.3.INST1.GR8](#) (Section 8-11.3 is supplemented with the following)
42 Must use once preceding any of the following:
43

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

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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.OPT2.FR8](#)

(High-Tension Cable Barrier System 4 Cable)
(November 20, 2023)
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.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\(1\).GR8](#) **Beam Guardrail**

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

[8-11.3\(1\).OPT1.GR8](#) Post Selection
(April 5, 2010)
Use in all projects that specifically require wood guardrail posts or specifically require steel guardrail posts.

[8-11.3\(1\)A.GR8](#) **Erection of Posts**

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

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[8-11.3\(1\)A.OPT1.GB8](#) (Timber Blockouts for Beam Guardrail Type Thrie Beam)
(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)B.OPT7.GB8.**

[8-11.3\(1\)A.OPT2.GB8](#) (Steel Posts for Beam Guardrail Type Thrie Beam)
(January 4, 2016)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using a steel post connection to the existing concrete curb or railbase. Include with **8-11.2(9-16.3(2)).OPT2.GB8,** **8-11.2(9-16.3(4)).OPT1.GB8,** and **8-11.3(1)A.OPT2.GB8.**

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

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-**

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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:

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.OPT4.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.5.OPT1.GR8.**

[8-11.5.GR8](#)

Payment

[8-11.5.INST2.GR8](#)

(Section 8-11.5 is supplemented with the following)
Must use once preceding any of the following:

[8-11.5.OPT1.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.4.OPT4.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.

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2 **8-12.GR8**

Chain Link Fence and Wire Fence

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4 **8-12.2.GR8**

Materials

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6 **8-12.2.INST1.GR8**

(Section 8-12.2 is supplemented with the following)
Must use once preceding any of the following:

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8
9 **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)

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15 **8-12.2.OPT6.GB8**

(Cable Fence)
(November 20, 2023)
Use in projects with cable fence. Include with **8-12.3.OPT1(B).GB8**, **8-12.4.OPT1.GB8**, and **8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

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24 **8-12.3.GR8**

Construction Requirements

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26 **8-12.3.INST1.GR8**

(Section 8-12.3 is supplemented with the following)
Must use once preceding any of the following:

27
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29 **8-12.3.OPT1.GB8**

(Cable Fence)
Use once preceding the following:

30
31
32 **8-12.3.OPT1(A).GB8**

(Field Measuring For Cable Fence)
(April 6, 2015)
Use in projects with cable fence when anchoring the cable fence posts to existing concrete structures. Include with **8-12.2.OPT6.GB8**, **8-12.3.OPT1(B).GB8**, **8-12.4.OPT1.GB8**, and **8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

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41 **8-12.3.OPT1(B).GB8**

(Cable Fence)
(November 20, 2023)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8**, **8-12.4.OPT1.GB8**, and **8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

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51 **8-12.3.OPT1(C).GB8**

(Cable Fence)
(January 2, 2018)

1 Use in projects with cable fence. Include with **8-**
2 **12.2.OPT6.GB8**, **8-12.4.OPT1.GB8**, and **8-**
3 **12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8**
4 when anchoring the cable fence posts to existing
5 concrete structures.

6
7 **8-12.4.GR8**

Measurement

8
9 **8-12.4.INST1.GR8**

(Section 8-12.4 is supplemented with the following)
Must use once preceding any of the following:

10
11
12 **8-12.4.OPT1.GB8**

(Cable Fence)
(April 6, 2015)

13 Use in projects with cable fence. Include with **8-**
14 **12.2.OPT6.GB8**, **8-12.3.OPT1(B).GB8**, and **8-**
15 **12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when
16 anchoring the cable fence posts to existing concrete
17 structures. Include with **8-12.3.OPT1(C).GB8** when
18 painting of the galvanized fence posts is required.
19

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21 **8-12.5.GR8**

Payment

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23 **8-12.5.INST1.GR8**

(Section 8-12.5 is supplemented with the following)
Must use once preceding any of the following:

24
25
26 **8-12.5.OPT1.GR8**

(Coated chain link fence)
(April 1, 2002)

27 Use in projects requiring the construction of coated chain
28 link fence.
29

30
31 **8-12.5.OPT6.GB8**

(Cable Fence)
(April 6, 2015)

32 Use in projects with cable fence. Include with **8-**
33 **12.2.OPT6.GB8**, **8-12.3.OPT1(B).GB8**, and **8-**
34 **12.4.OPT1.GB8**. Include with **8-12.3.OPT1(A).GB8** when
35 anchoring the cable fence posts to existing concrete
36 structures. Include with **8-12.3.OPT1(C).GB8** when
37 painting of the galvanized fence posts is required.
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39

40 **8-13.GR8**

Monument Cases

41
42 **8-13.1.GR8**

Description

43
44 **8-13.1.INST1.GR8**

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

45
46
47 **8-13.1.OPT1.GR8**

(Monument pipes included in work)
(March 13, 1995)

48 Must also use **8-13.2.OPT1.GR8**, **8-13.4.OPT1.GR8** and
49 **8-13.5.OPT1.GR8**.

50 Use in projects requiring that the monument pipes be
51 installed by the Contractor.
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8-13.2.GR8

Materials

8-13.2.INST1.GR8

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

8-13.2.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.

8-13.3.GR8

Construction Requirements

8-13.3(1).GR8

Monument Case and Cover

8-13.3(1).INST1.GR8

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

8-13.3(1).OPT1.GR8

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

8-13.3(2).GR8

Adjust Monument Case and Cover

8-13.3(2)B.GR8

Reinstalling Monument Case and Cover

8-13.3(2)B.INST1.GR8

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

8-13.3(2)B.OPT1.GR8

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

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:

1
2 [8-13.5.OPT1.GR8](#)

(Monument pipes included in work)
(April 28, 1997)

3
4 Must include with **8-13.1.OPT1.GR8**.

5 Use in projects requiring that the monument pipes be
6 installed by the Contractor.
7

8 **[8-14.GR8](#)**

Cement Concrete Sidewalks

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10 **[8-14.2.GR8](#)**

Materials

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12 [8-14.2\(9-19.1\).GR8](#)

(Surface Applied Detectable Warning Surface)

13
14 [8-14.2\(9-19.1\(1\)\).GR8](#)

(General Requirements)

15 (The first paragraph of Section 9-19.1(1) is revised to
16 read)

17 Must use once preceding any of the following:

18
19 [8-14.2\(9-29.1\(1\)\).OPT1.FR8](#)

(Alternative color for detectable warning
20 surfaces)

21 (October 3, 2022)

22 Use in projects where the color for detectable
23 warning surfaces will not be yellow.

24 (1 fill-in)

25 Fill-in #1 is the color of the detectable warning
26 surface.
27

28 [8-14.2\(9-19.2\).GR8](#)

(Cast-in-Place Detectable Warning Surface)

29
30 [8-14.2\(9-19.2\(1\)\).GR8](#)

(General Requirements)

31 (The first paragraph of Section 9-19.2(1) is revised to
32 read)

33 Must use once preceding any of the following:

34
35 [8-14.2\(9-29.2\(1\)\).OPT1.FR8](#)

(Alternative color for detectable warning
36 surfaces)

37 (October 3, 2022)

38 Use in projects where the color for detectable
39 warning surfaces will not be yellow.

40 (1 fill-in)

41 Fill-in #1 is the color of the detectable warning
42 surface.
43
44

45 **[8-14.3.GR8](#)**

Construction Requirements

46
47 [8-14.3.INST1.GR8](#)

(Section 8-14.3 is supplemented with the following)

48 Must use once preceding any of the following:

49
50 [8-14.3.OPT1.GR8](#)

(Pre-construction meeting for cement concrete sidewalks,
51 curb ramps or other pedestrian access routes to discuss
52 ADA issues before Work begins)

53 (October 3, 2022)

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Use in projects where pedestrian access route Work (cement concrete sidewalks, curb ramps or other pedestrian access) is proposed and it is felt that a pre-construction meeting is needed by Region Construction Office to discuss ADA compliance.

[8-14.3.OPT2.GR8](#)

(Timing Restrictions)
(January 7, 2019)

Use in all projects that require any ADA Feature work where the closure of pedestrian routes is subject to time restrictions.
Must use with **1-05.4.OPT4.GR8**, and **8-14.3.OPT3.GR8**.

[8-14.3.OPT3.GR8](#)

(Layout and Conformance to Grades)
(January 7, 2019)

Use in all projects that require any ADA Feature work. Use with **1-05.4.OPT4.GR8**.

[8-15.GR8](#)

Riprap

[8-15.4.GR8](#)

Measurement

[8-15.4.INST1.GR8](#)

(Section 8-15.4 is supplemented with the following)
Must use once preceding any of the following:

[8-15.4.OPT3.GR8](#)

(Special excavation)
(March 13, 1995)
Must also use **8-15.5.OPT8.GR8**.

Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.

[8-15.4.OPT5.GR8](#)

(Excavation for riprap is included in cost of riprap)
(The last paragraph of Section 8-14.5 is deleted)
(February 5, 2001)
Must also use **8-15.5.OPT1.GR8**.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

[8-15.5.GR8](#)

Payment

[8-15.5.INST1.GR8](#)

(The first sentence of the second paragraph of Section 8-15.5 is revised to read)
Must use once preceding any of the following:

[8-15.5.OPT1.GR8](#)

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

[8-15.5.INST2.GR8](#)

(Section 8-15.5 is supplemented with the following)

1 Must use once preceding the following:
2

3 [8-15.5.OPT8.GR8](#)

(Special excavation)
(September 30, 1996)

4 Must include with **8-15.4.OPT3.GR8**.

5 Use in projects requiring excavation outside the limits of
6 structure excavation for riprap at bridge piers located
7 within streams.
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10 [8-16.GR8](#)

Concrete Slope Protection

11 [8-16.3.GR8](#)

Construction Requirements

12 [8-16.3\(2\).GR8](#)

Placing Semi-Open Concrete Masonry Units

13 [8-16.3\(2\).INST1.GR8](#)

(Section 8-16.3(2) is supplemented with the following)
14 Must use once preceding any of the following:

15 [8-16.3\(2\).OPT1.GR8](#)

(Requirements for semi-open precast masonry units)
(December 19, 2005)

16 Must include with **8-16.5.OPT1.GR8**.

17 Use in projects requiring semi-open concrete masonry
18 slope protection.
19

20 [8-16.5.GR8](#)

Payment

21 [8-16.5.INST1.GR8](#)

(Section 8-16.5 is supplemented with the following)
22 Must use once preceding any of the following:

23 [8-16.5.OPT1.GR8](#)

(Semi-open Conc. Masonry Slope Protection)
(September 30, 1996)

24 Must include with **8-16.3(2).OPT1.GR8**.

25 Use in projects requiring semi-open concrete masonry
26 slope protection.
27

28 [8-20.GR8](#)

**Illumination, Traffic Signal Systems, Intelligent Transportation
29 Systems, and Electrical**

30 [8-20.2.GR8](#)

Materials

31 [8-20.2.INST1.GR8](#)

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

33 [8-20.2.OPT1.GB8](#)

(Traffic Signal Shaft Foundation Shaft Casing and
Slurry)
(April 6, 2015)

34 Use in traffic signal projects with shaft foundations in weak
35 soils, with the concurrence of the Materials Laboratory
36 Geotechnical Branch. Include with **8-20.3(4).OPT1.FB8**
37 and **8-20.5.OPT1.GB8**.
38

39 [8-20.2\(9-29.1\).GR8](#)

(Conduit, Innerduct, and Outerduct)

40 [8-20.2\(9-29.1\(11\)\).GR8](#) (Foam Conduit Sealant)
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(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 13, 2021)

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 13, 2021)

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 10, 2022)

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\(2\)\).GR8](#) (Slip Base Hardware)

(The second sentence of Section 9-29.6(2) is revised to read)

Must use preceding the following:

[8-20.2\(9-29.6\(2\)\).OPT1.2025.GR8](#)(November 20, 2023)

Use in all projects with light or signals with slip bases.

[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:

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[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.

[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. Include with **8-20.3(14).OPT1.GR8**.

[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.

[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)

(January 7, 2019)

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

(February 6, 2023)

Use in projects requiring accessible pedestrian signal (APS) pushbuttons. Do not use for RRFB system pushbuttons.

Include speech message programming table in Contract Plans – one table for each signal system.

See <https://wsdot.wa.gov/engineering-standards/design-topics/traffic-illumination-traffic-signals-and-intelligent-transportation-systems-its>, specification section, for instructions for filling out the tables.

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

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[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 Materials Laboratory Geotechnical Branch. 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).

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8-20.3(5).GR8 Conduit

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

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

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

8-20.3(8).GR8 Wiring

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

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

8-20.3(14).GR8 Signal Systems

8-20.3(14).INST1.GR8 (Section 8-20.3(14) is supplemented with the following)
Must use once preceding any of the following:

8-20.3(14).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. Include with **8-20.2(9-29.13).OPT1.GR8**

8-20.3(14)A.GR8 Signal Controllers

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

8-20.3(14)A.OPT1.GR8 Testing
(August 2, 2010)
Use in projects with Contractor furnished signal controllers.

8-20.5.GR8 Payment

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

8-20.5.OPT1.GB8 (Removing Traffic Signal Shaft Obstructions)
(April 6, 2015)

1 Use in traffic signal projects with shaft foundations in weak
2 soils, with the concurrence of the Materials Laboratory
3 Geotechnical Branch. Include with **8-20.2.OPT1.GB8** and
4 **8-20.3(4).OPT1.FB8**.

5
6 **8-21.GR8** **Permanent Signing**

7
8 **8-21.2.GR8** **Materials**

9
10 **8-21.2(9-06.16).GR8** (Roadside Sign Structures)
11 (Section 9-06.16 is supplemented with the following)
12 Must use once preceding the following:

13
14 **8-21.2(9-06.16).OPT1.GR8** (January 3, 2011)
15 Use in projects with perforated steel square sign posts.

16
17 **8-21.2(9-28.11).GR8** (Hardware)
18 (Section 9-28.11 is supplemented with the following)
19 Must use once preceding any of the following:

20
21 **8-21.2(9-28.11).OPT1.GB8** (Overhead Sign Structure Locknuts)
22 (August 3, 2015)
23 Use in all projects with overhead sign structures (sign
24 bridge, cantilever sign structure, bridge mounted sign
25 bracket).

26
27 **8-21.2(9-28.14).GR8** (Sign Support Structures)
28 (Section 9-28.14 is supplemented with the following)
29 Must use once preceding any of the following:

30
31 **8-21.2(9-28.14).OPT6.GR8** (Roadside Signing Material and Fabrication)
32 (September 8, 2020)
33 Use in all projects that have steel sign supports.

34
35 **8-21.3.GR8** **Construction Requirements**

36
37 **8-21.3(9).GR8** **Sign Structures**

38
39 **8-21.3(9)A.GR8** **Fabrication of Sign Structures**

40
41 **8-21.3(9)A1.GR8** **Fabrication of Monotube Sign Bridges and**
42 **Cantilever Sign Structures**

43
44 **8-21.3(9)A1.INST1.GR8** (Section 8-21.3(9)A1 is supplemented with the
45 following)
46 Must use once preceding any of the following:

47
48 **8-21.3(9)A1.OPT1.FB8** (Non-Conventional Paint Color)
49 (September 8, 2020)
50 Use in projects with monotube sign bridges
51 and/or monotube cantilever sign structures
52 painted a color other than the conventionally
53 specified gray color. Include with **8-**

1 **21.4.OPT1.FB8.** The fill-in specifies the SAE
2 AMS Standard 595 color number, or the color
3 name if no number.
4 (1 fill-in)
5

6 **8-21.3(9)E.GR8** **Bridge Mounted Sign Brackets**
7

8 **8-21.3(9)E.INST1.GR8** (Section 8-21.3(9)E is supplemented with the
9 following)
10 Must use once preceding any of the following:
11

12 **8-21.3(9)E.OPT1.FB8** (Bridge Mounted Sign Brackets)
13 (November 20, 2023)
14 Use in projects with bridge mounted sign
15 brackets. The first and third fill-ins specify the
16 sign bracket number(s). The second fill-in
17 itemizes the structural carbon steel quantity for
18 each sign bracket. The fourth fill-in specifies the
19 quantity of hole drilling required for the resin
20 bonded anchors for each sign bracket.
21 (4 fill-ins)
22

23 **8-21.3(9)F.GR8** **Foundations**
24

25 **8-21.3(9)F1.GR8** **Fabrication of Monotube Sign Bridges and**
26 **Cantilever Sign Structures**
27

28 **8-21.3(9)F1.INST1.GR8** (Section 8-21.3(9)F1 is supplemented with the
29 following)
30 Must use once preceding any of the following:
31

32 **8-21.3(9)F1.OPT1.FB8** (Temporary Casing Requirements)
33 (September 8, 2020)
34 Use in sign structure projects with shaft
35 foundations where the shaft diameter is 48
36 inches or greater, or where the shaft depth is
37 15 feet or greater, or where the Materials
38 Laboratory Geotechnical Branch identifies the
39 foundation soils as sufficiently weak to
40 require use of this specification. The fill-in
41 specifies the location(s) of the shaft(s)
42 requiring construction under these
43 construction requirements.
44 (1 fill-in)
45

46 **8-21.4.GR8** **Measurement**
47

48 **8-21.4.INST1.GR8** (Section 8-21.4 is supplemented with the following)
49 Must use once preceding any of the following:
50

51 **8-21.4.OPT1.FB8** (Monotube Sign Structures)
52 (September 8, 2020)

1 Use in projects with monotube sign bridges and/or
2 monotube cantilever sign structures. The first fill in
3 specifies the type of sign structure work included (sign
4 bridge or cantilever sign structure or both). The second fill-
5 in itemizes the quantities and work involved with each sign
6 structure.
7 (2 fill-ins)
8

9 **8-23.GR8** Temporary Pavement Markings

10
11 **8-23.2.GR8** Materials

12
13 **8-23.2(9-34).GR8** (Pavement Marking Material)
14 (Section 9-34 is supplemented with the following)
15 Must use once preceding any of the following:
16

17 **8-23.2(9-34).OPT1.GR8** (October 3, 2022)
18 Consider including temporary adhesive transverse
19 rumble strips when a project has temporary signals on
20 two lane highways. Use in all projects when temporary
21 adhesive Rumble Strips are shown on the traffic
22 control plans. Must also include **8-**
23 **23.3(4)A.OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-**
24 **23.5.OPT1.GR8**.

25
26 **8-23.3.GR8** Construction Requirements

27
28 **8-23.3(4).GR8** Pavement Marking Application

29
30 **8-23.3(4)A.GR8** Temporary Pavement Markings – Short Duration

31
32 **8-23.3(4)A.INST1.GR8** (Section 8-23.3(4)A is supplemented with the
33 following)
34 Must use once preceding any of the following:
35

36 **8-23.3(4)A.OPT1.GR8** (Temporary Adhesive Transverse Rumble Strips)
37 (October 3, 2022)
38 Consider including temporary adhesive
39 transverse rumble strips when a project has
40 temporary signals on two lane highways. Use in
41 all projects when temporary adhesive Rumble
42 Strips are shown on the traffic control plans. Must
43 also include **8-23.2(9-34).OPT1.GR8**, **8-**
44 **23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

45
46 **8-23.4.GR8** Measurement

47
48 **8-23.4.INST1.GR8** (Section 8-23.4 is supplemented with the following)
49 Must use once preceding any of the following:
50

51 **8-23.4.OPT1.GR8** (Temporary Adhesive Transverse Rumble Strips)
52 (October 3, 2022)

1 Consider including temporary adhesive transverse rumble
2 strips when a project has temporary signals on two lane
3 highways. Use in all projects when temporary adhesive
4 Rumble Strips are shown on the traffic control plans. Must
5 also include **8-23.2(9-34).OPT1.GR8**, **8-**
6 **23.3(4)A.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

7
8 **8-23.5.GR8**

Payment

9
10 **8-23.5.INST1.GR8**

(Section 8-23.5 is supplemented with the following)
Must use once preceding any of the following:

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12
13 **8-23.5.OPT1.GR8**

(Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)

14 Consider including temporary adhesive transverse rumble
15 strips when a project has temporary signals on two lane
16 highways. Use in all projects when temporary adhesive
17 Rumble Strips are shown on the traffic control plans. Must
18 also include **8-23.2(9-34).OPT1.GR8**, **8-**
19 **23.3(4)A.OPT1.GR8**, and **8-23.4.OPT1.GR8**.

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21
22 **8-24.GR8**

Rock and Gravity Block Wall, and Gabion Cribbing

23
24 **8-24.2.GR8**

Materials

25
26 **8-24.2.INST1.GR8**

(Section 8-24.2 is supplemented with the following)
Must use once preceding any of the following:

27
28
29 **8-24.2.OPT1.GR8**

(Gravity Block Wall)
(November 2, 2022)

30 Use in projects constructing gravity block walls. Include
31 with **8-24.3(2).OPT1.GR8**.

32
33
34 **8-24.3.GR8**

Construction Requirements

35
36 **8-24.3(2).GR8**

Gravity Block Wall

37
38 **8-24.3(2).INST1.GR8**

(Section 8-24.3(2) is supplemented with the following)
Must use once preceding any of the following:

39
40
41 **8-24.3(2).OPT1.GR8**

(Gravity Block Wall)
(January 7, 2002)

42 Use in projects constructing gravity block walls.
43 Include with **8-24.2.OPT1.GR8**.

44
45
46 **8-25.GR8**

Glare Screen

47
48 **8-25.1.GR8**

Description

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50 **8-25.1.INST1.GR8**

(Section 8-25.1 is supplemented with the following)
Must use once preceding any of the following:

51
52
53 **8-25.1.OPT1.GR8**

(April 1, 2002)

1 Use in projects when the work zone analysis determines
2 the need for temporary barrier screening.
3 **8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8,**
4 **and 8-25.5.OPT1.GR8.**

5
6 **8-25.2.GR8**

Materials

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8 **8-25.2.INST1.GR8**

(Section 8-25.2 is supplemented with the following)
Must use once preceding any of the following:

9
10
11 **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.**

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17 **8-25.3.GR8**

Construction Requirements

18
19 **8-25.3.INST1.GR8**

(Section 8-25.3 is supplemented with the following)
Must use once preceding any of the following:

20
21
22 **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.

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28 **8-25.4.GR8**

Measurement

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30 **8-25.4.INST1.GR8**

(Section 8-25.4 is supplemented with the following)
Must use once preceding any of the following:

31
32
33 **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.

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39 **8-25.5.GR8**

Payment

40
41 **8-25.5.INST1.GR8**

(Section 8-25.5 is supplemented with the following)
Must use once preceding any of the following:

42
43
44 **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.

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50 **8-29.GR8**

Wire Mesh Slope Protection

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52 **8-29.1.GR8**

Description

53
54 **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](#).

[8-30.GR8](#)

Water Crossings

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8-30.3.GR8 **Construction Requirements**

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

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

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

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

8-31.3.GR8 **Construction Requirements**

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

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

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

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

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

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

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

8-31.3(3)B.INST1.GR8 (Section 8-31.3(1)B is supplemented with the following)
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)

(October 3, 2022)
For use on projects that have logs with or without rootwads or slash materials.